



Full wwPDB EM Validation Report ⓘ

Apr 22, 2026 – 01:39 pm BST

PDB ID : 28RO / pdb_000028ro
EMDB ID : EMD-56772
Title : split variant of Aquifex aeolicus lumazine synthase-derived nucleocapsid variant NC-4
Authors : Tetter, S.; Hilvert, D.
Deposited on : 2026-02-16
Resolution : 3.10 Å(reported)
Based on initial model : 1HQK

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

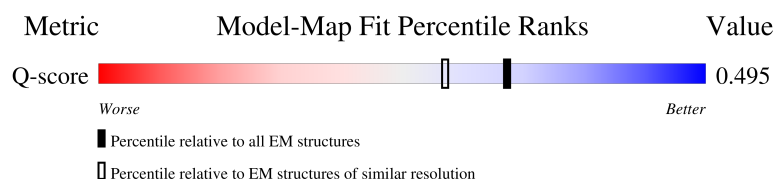
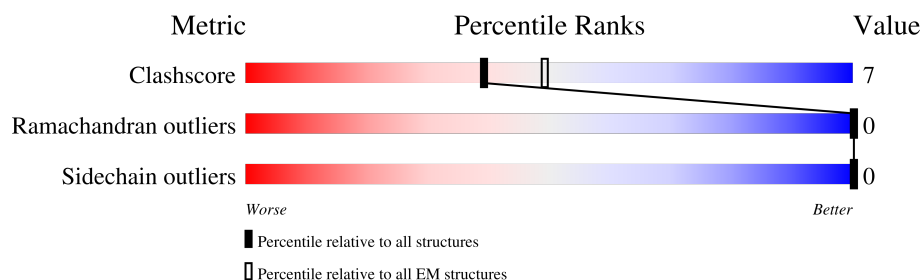
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 3.10 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	14724 (2.60 - 3.60)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	0A	113	<div> <div>6%</div> <div>47%</div> <div>9%</div> <div>44%</div> </div>
1	0B	113	<div> <div>5%</div> <div>42%</div> <div>15%</div> <div>43%</div> </div>
1	0C	113	<div> <div>10%</div> <div>44%</div> <div>12%</div> <div>43%</div> </div>
1	0D	113	<div> <div>12%</div> <div>50%</div> <div>9%</div> <div>41%</div> </div>

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Mol	Chain	Length	Quality of chain
1	1A	113	<div> <div>8%</div> <div>47%</div> <div>9%</div> <div>44%</div> </div>
1	1B	113	<div> <div>7%</div> <div>42%</div> <div>14%</div> <div>43%</div> </div>
1	1C	113	<div> <div>11%</div> <div>45%</div> <div>12%</div> <div>43%</div> </div>
1	1D	113	<div> <div>10%</div> <div>48%</div> <div>12%</div> <div>41%</div> </div>
1	2A	113	<div> <div>8%</div> <div>47%</div> <div>9%</div> <div>44%</div> </div>
1	2B	113	<div> <div>6%</div> <div>44%</div> <div>12%</div> <div>43%</div> </div>
1	2C	113	<div> <div>11%</div> <div>45%</div> <div>12%</div> <div>43%</div> </div>
1	2D	113	<div> <div>12%</div> <div>50%</div> <div>10%</div> <div>41%</div> </div>
1	3A	113	<div> <div>8%</div> <div>44%</div> <div>12%</div> <div>44%</div> </div>
1	3B	113	<div> <div>7%</div> <div>43%</div> <div>13%</div> <div>43%</div> </div>
1	3C	113	<div> <div>10%</div> <div>44%</div> <div>12%</div> <div>43%</div> </div>
1	3D	113	<div> <div>10%</div> <div>49%</div> <div>11%</div> <div>41%</div> </div>
1	4A	113	<div> <div>7%</div> <div>45%</div> <div>11%</div> <div>44%</div> </div>
1	4B	113	<div> <div>5%</div> <div>43%</div> <div>13%</div> <div>43%</div> </div>
1	4C	113	<div> <div>12%</div> <div>45%</div> <div>12%</div> <div>43%</div> </div>
1	4D	113	<div> <div>11%</div> <div>47%</div> <div>12%</div> <div>41%</div> </div>
1	5A	113	<div> <div>9%</div> <div>47%</div> <div>9%</div> <div>44%</div> </div>
1	5B	113	<div> <div>6%</div> <div>44%</div> <div>12%</div> <div>43%</div> </div>
1	5C	113	<div> <div>10%</div> <div>45%</div> <div>12%</div> <div>43%</div> </div>
1	5D	113	<div> <div>11%</div> <div>49%</div> <div>11%</div> <div>41%</div> </div>
1	6A	113	<div> <div>9%</div> <div>45%</div> <div>11%</div> <div>44%</div> </div>
1	6B	113	<div> <div>10%</div> <div>42%</div> <div>14%</div> <div>43%</div> </div>
1	6C	113	<div> <div>10%</div> <div>45%</div> <div>12%</div> <div>43%</div> </div>
1	6D	113	<div> <div>10%</div> <div>50%</div> <div>9%</div> <div>41%</div> </div>
1	7A	113	<div> <div>7%</div> <div>45%</div> <div>11%</div> <div>44%</div> </div>

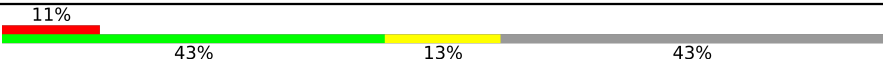
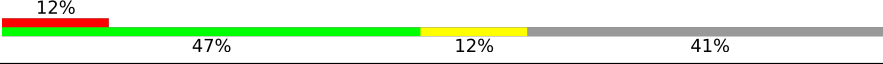
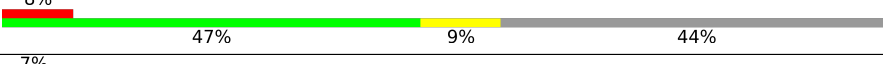
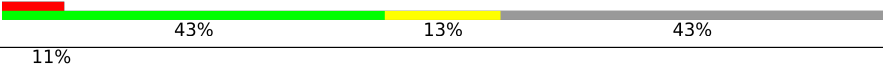
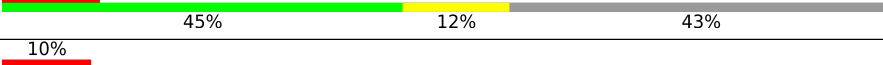

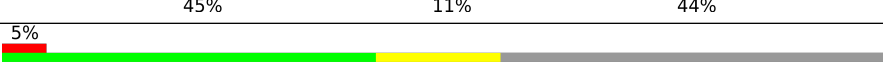
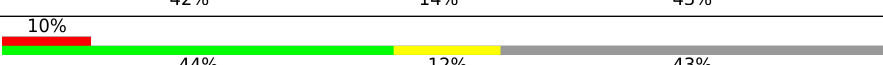
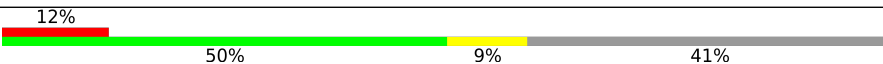
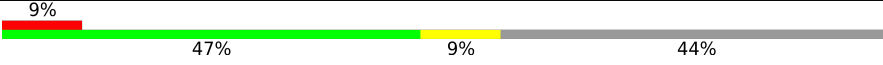
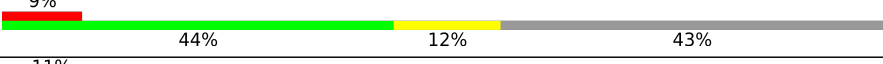
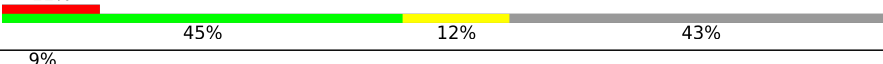
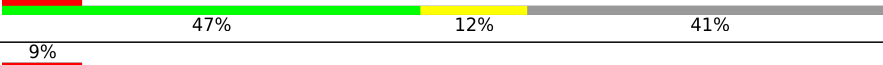
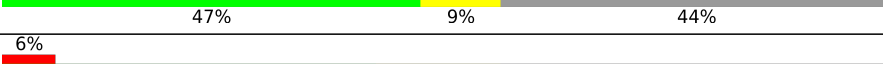
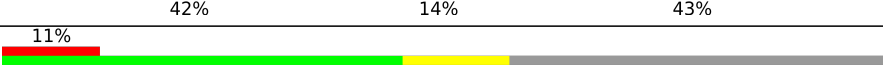
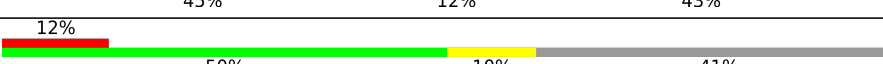
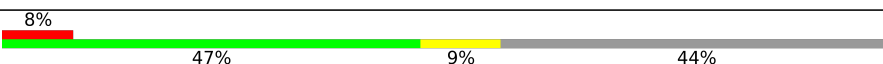
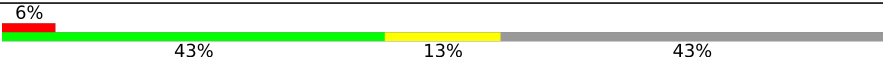
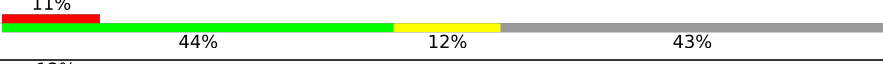
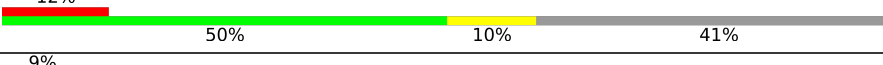
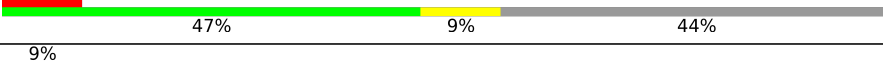
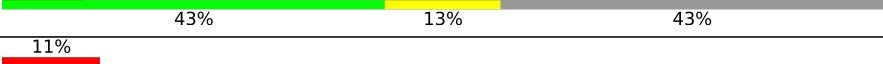
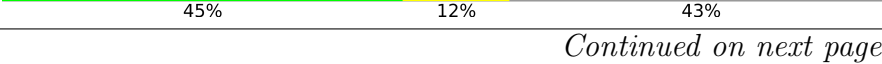


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Mol	Chain	Length	Quality of chain
1	7B	113	<div> <div>5%</div> <div>42%</div> <div>15%</div> <div>43%</div> </div>
1	7C	113	<div> <div>10%</div> <div>45%</div> <div>12%</div> <div>43%</div> </div>
1	7D	113	<div> <div>11%</div> <div>46%</div> <div>13%</div> <div>41%</div> </div>
1	AA	113	<div> <div>7%</div> <div>47%</div> <div>9%</div> <div>44%</div> </div>
1	AB	113	<div> <div>8%</div> <div>43%</div> <div>13%</div> <div>43%</div> </div>
1	AC	113	<div> <div>12%</div> <div>42%</div> <div>14%</div> <div>43%</div> </div>
1	AD	113	<div> <div>12%</div> <div>50%</div> <div>10%</div> <div>41%</div> </div>
1	BA	113	<div> <div>8%</div> <div>47%</div> <div>9%</div> <div>44%</div> </div>
1	BB	113	<div> <div>6%</div> <div>44%</div> <div>12%</div> <div>43%</div> </div>
1	BC	113	<div> <div>10%</div> <div>44%</div> <div>12%</div> <div>43%</div> </div>
1	BD	113	<div> <div>12%</div> <div>48%</div> <div>12%</div> <div>41%</div> </div>
1	CA	113	<div> <div>8%</div> <div>45%</div> <div>11%</div> <div>44%</div> </div>
1	CB	113	<div> <div>6%</div> <div>42%</div> <div>15%</div> <div>43%</div> </div>
1	CC	113	<div> <div>11%</div> <div>45%</div> <div>12%</div> <div>43%</div> </div>
1	CD	113	<div> <div>12%</div> <div>50%</div> <div>10%</div> <div>41%</div> </div>
1	DA	113	<div> <div>9%</div> <div>45%</div> <div>11%</div> <div>44%</div> </div>
1	DB	113	<div> <div>10%</div> <div>43%</div> <div>13%</div> <div>43%</div> </div>
1	DC	113	<div> <div>10%</div> <div>44%</div> <div>12%</div> <div>43%</div> </div>
1	DD	113	<div> <div>10%</div> <div>50%</div> <div>10%</div> <div>41%</div> </div>
1	EA	113	<div> <div>6%</div> <div>44%</div> <div>12%</div> <div>44%</div> </div>
1	EB	113	<div> <div>7%</div> <div>42%</div> <div>14%</div> <div>43%</div> </div>
1	EC	113	<div> <div>9%</div> <div>45%</div> <div>12%</div> <div>43%</div> </div>
1	ED	113	<div> <div>12%</div> <div>48%</div> <div>12%</div> <div>41%</div> </div>
1	FA	113	<div> <div>6%</div> <div>47%</div> <div>9%</div> <div>44%</div> </div>
1	FB	113	<div> <div>8%</div> <div>43%</div> <div>13%</div> <div>43%</div> </div>

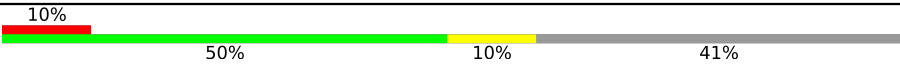
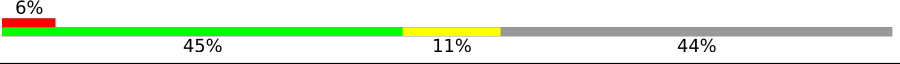
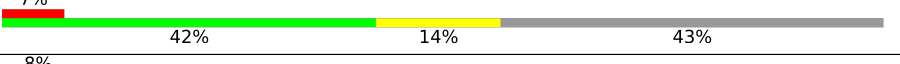
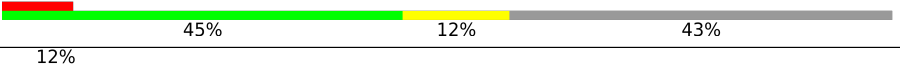
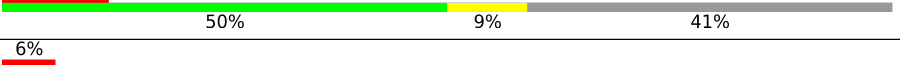
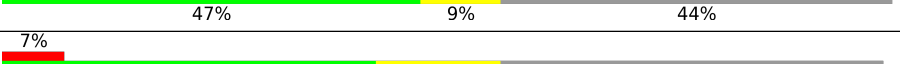
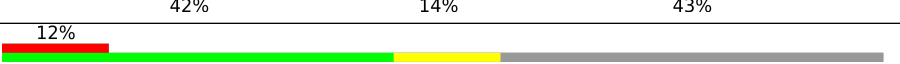
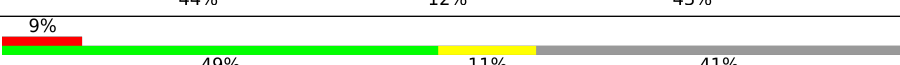
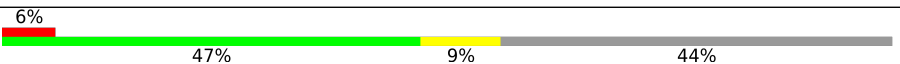
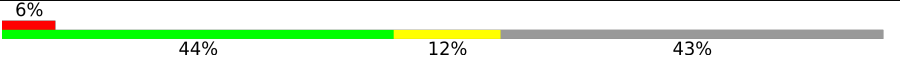
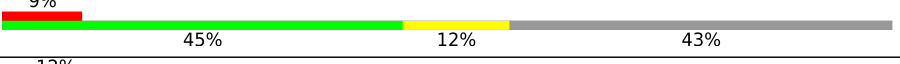
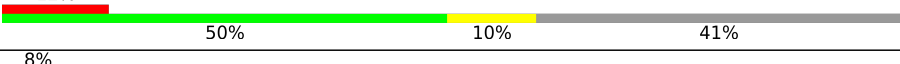
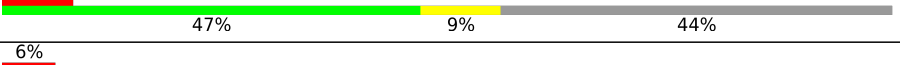
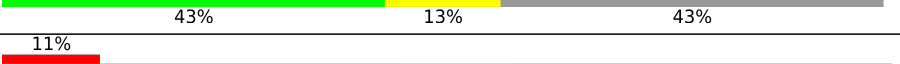
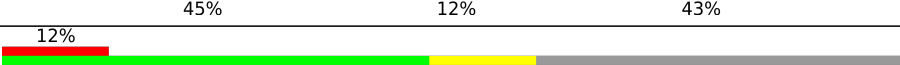
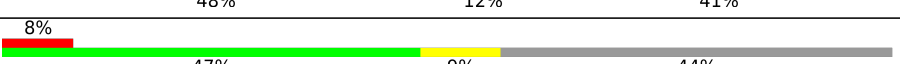
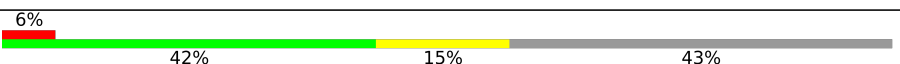
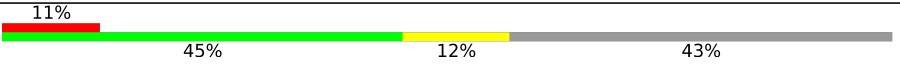
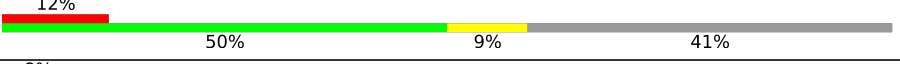
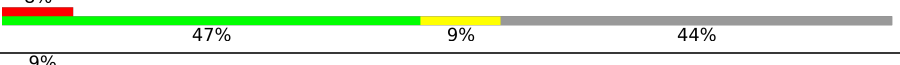
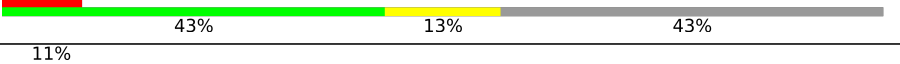
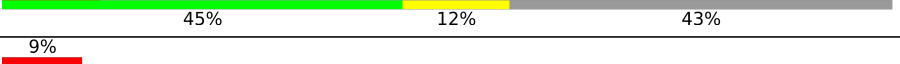
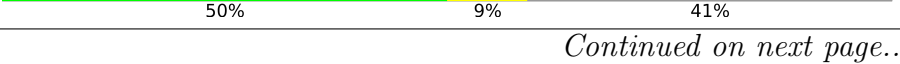


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Mol	Chain	Length	Quality of chain
1	FC	113	
1	FD	113	
1	GA	113	
1	GB	113	
1	GC	113	
1	GD	113	
1	HA	113	
1	HB	113	
1	HC	113	
1	HD	113	
1	IA	113	
1	IB	113	
1	IC	113	
1	ID	113	
1	JA	113	
1	JB	113	
1	JC	113	
1	JD	113	
1	KA	113	
1	KB	113	
1	KC	113	
1	KD	113	
1	LA	113	
1	LB	113	
1	LC	113	

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Mol	Chain	Length	Quality of chain
1	LD	113	
1	MA	113	
1	MB	113	
1	MC	113	
1	MD	113	
1	NA	113	
1	NB	113	
1	NC	113	
1	ND	113	
1	OA	113	
1	OB	113	
1	OC	113	
1	OD	113	
1	PA	113	
1	PB	113	
1	PC	113	
1	PD	113	
1	QA	113	
1	QB	113	
1	QC	113	
1	QD	113	
1	RA	113	
1	RB	113	
1	RC	113	
1	RD	113	

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Mol	Chain	Length	Quality of chain
1	SA	113	
1	SB	113	
1	SC	113	
1	SD	113	
1	TA	113	
1	TB	113	
1	TC	113	
1	TD	113	
1	UA	113	
1	UB	113	
1	UC	113	
1	UD	113	
1	VA	113	
1	VB	113	
1	VC	113	
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1	WA	113	
1	WB	113	
1	WC	113	
1	WD	113	
1	XA	113	
1	XB	113	
1	XC	113	
1	XD	113	
1	YA	113	

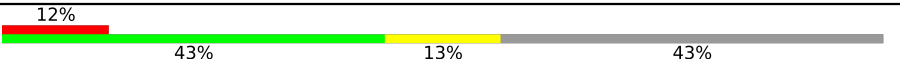
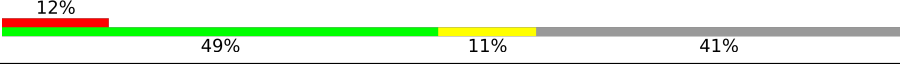
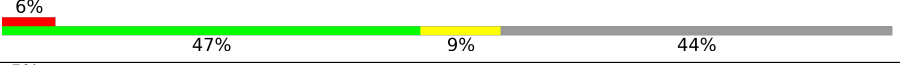
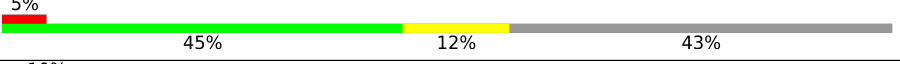
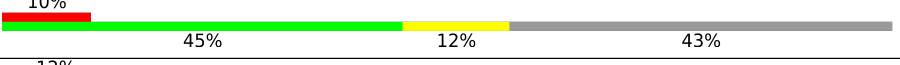
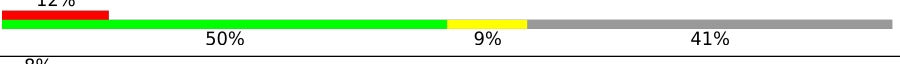
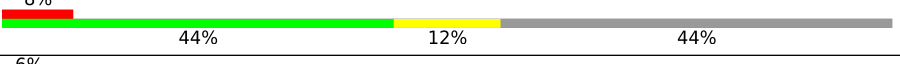
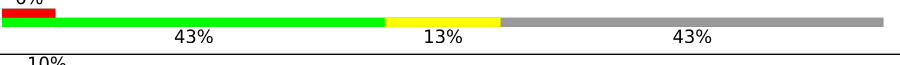
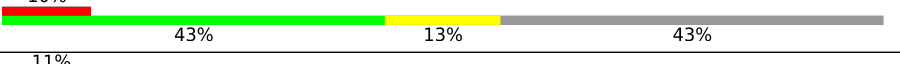
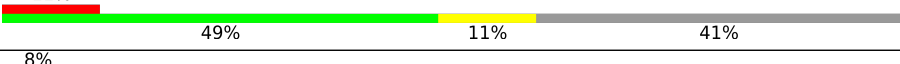
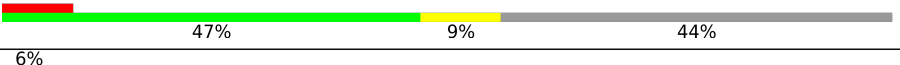
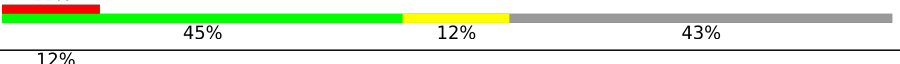
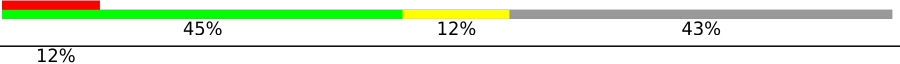
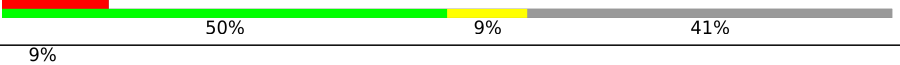
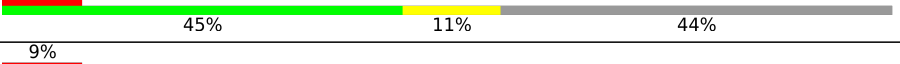
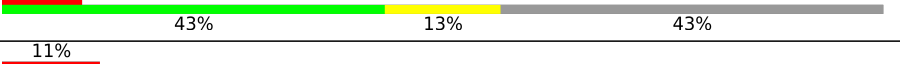
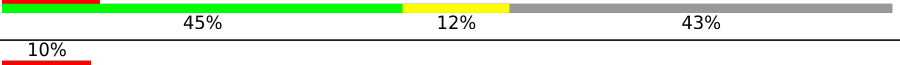
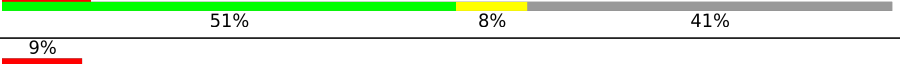
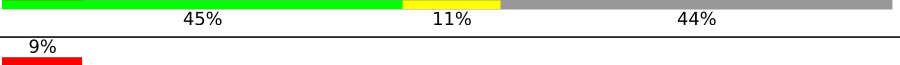
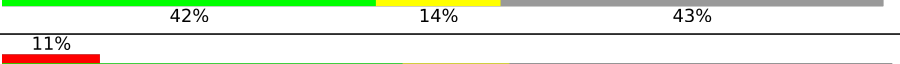
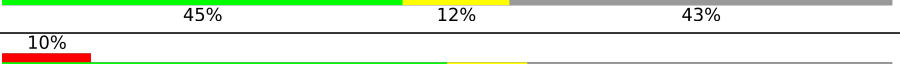
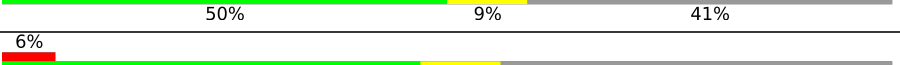
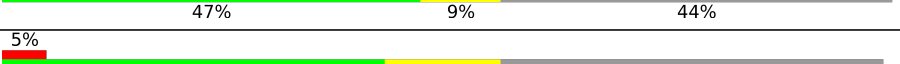
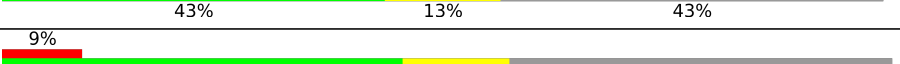
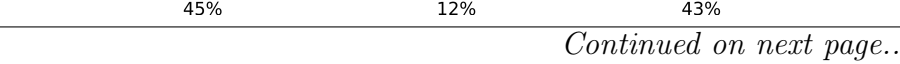
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Mol	Chain	Length	Quality of chain
1	YB	113	
1	YC	113	
1	YD	113	
1	ZA	113	
1	ZB	113	
1	ZC	113	
1	ZD	113	
1	aA	113	
1	aB	113	
1	aC	113	
1	aD	113	
1	bA	113	
1	bB	113	
1	bC	113	
1	bD	113	
1	cA	113	
1	cB	113	
1	cC	113	
1	cD	113	
1	dA	113	
1	dB	113	
1	dC	113	
1	dD	113	
1	eA	113	
1	eB	113	

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Mol	Chain	Length	Quality of chain
1	eC	113	
1	eD	113	
1	fA	113	
1	fB	113	
1	fC	113	
1	fD	113	
1	gA	113	
1	gB	113	
1	gC	113	
1	gD	113	
1	hA	113	
1	hB	113	
1	hC	113	
1	hD	113	
1	iA	113	
1	iB	113	
1	iC	113	
1	iD	113	
1	jA	113	
1	jB	113	
1	jC	113	
1	jD	113	
1	kA	113	
1	kB	113	
1	kC	113	

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Mol	Chain	Length	Quality of chain
1	kD	113	
1	lA	113	
1	lB	113	
1	lC	113	
1	lD	113	
1	mA	113	
1	mB	113	
1	mC	113	
1	mD	113	
1	nA	113	
1	nB	113	
1	nC	113	
1	nD	113	
1	oA	113	
1	oB	113	
1	oC	113	
1	oD	113	
1	pA	113	
1	pB	113	
1	pC	113	
1	pD	113	
1	qA	113	
1	qB	113	
1	qC	113	
1	qD	113	

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Mol	Chain	Length	Quality of chain
1	rA	113	<div> <div>9%</div> <div>47%</div> <div>9%</div> <div>44%</div> </div>
1	rB	113	<div> <div>9%</div> <div>42%</div> <div>14%</div> <div>43%</div> </div>
1	rC	113	<div> <div>11%</div> <div>44%</div> <div>12%</div> <div>43%</div> </div>
1	rD	113	<div> <div>10%</div> <div>48%</div> <div>12%</div> <div>41%</div> </div>
1	sA	113	<div> <div>7%</div> <div>43%</div> <div>12%</div> <div>44%</div> </div>
1	sB	113	<div> <div>7%</div> <div>45%</div> <div>12%</div> <div>43%</div> </div>
1	sC	113	<div> <div>12%</div> <div>45%</div> <div>12%</div> <div>43%</div> </div>
1	sD	113	<div> <div>10%</div> <div>49%</div> <div>11%</div> <div>41%</div> </div>
1	tA	113	<div> <div>8%</div> <div>47%</div> <div>9%</div> <div>44%</div> </div>
1	tB	113	<div> <div>5%</div> <div>44%</div> <div>12%</div> <div>43%</div> </div>
1	tC	113	<div> <div>10%</div> <div>45%</div> <div>12%</div> <div>43%</div> </div>
1	tD	113	<div> <div>11%</div> <div>48%</div> <div>12%</div> <div>41%</div> </div>
1	uA	113	<div> <div>8%</div> <div>45%</div> <div>11%</div> <div>44%</div> </div>
1	uB	113	<div> <div>6%</div> <div>42%</div> <div>15%</div> <div>43%</div> </div>
1	uC	113	<div> <div>11%</div> <div>45%</div> <div>12%</div> <div>43%</div> </div>
1	uD	113	<div> <div>12%</div> <div>50%</div> <div>10%</div> <div>41%</div> </div>
1	vA	113	<div> <div>8%</div> <div>45%</div> <div>11%</div> <div>44%</div> </div>
1	vB	113	<div> <div>9%</div> <div>43%</div> <div>13%</div> <div>43%</div> </div>
1	vC	113	<div> <div>11%</div> <div>44%</div> <div>12%</div> <div>43%</div> </div>
1	vD	113	<div> <div>9%</div> <div>50%</div> <div>10%</div> <div>41%</div> </div>
1	wA	113	<div> <div>6%</div> <div>47%</div> <div>9%</div> <div>44%</div> </div>
1	wB	113	<div> <div>6%</div> <div>43%</div> <div>13%</div> <div>43%</div> </div>
1	wC	113	<div> <div>8%</div> <div>45%</div> <div>12%</div> <div>43%</div> </div>
1	wD	113	<div> <div>12%</div> <div>50%</div> <div>9%</div> <div>41%</div> </div>
1	xA	113	<div> <div>8%</div> <div>47%</div> <div>9%</div> <div>44%</div> </div>







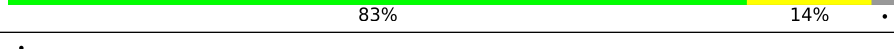
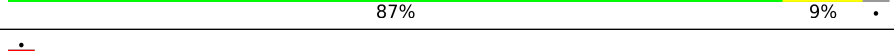
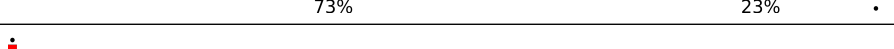
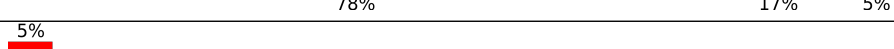
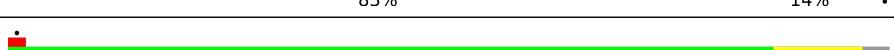

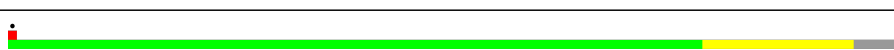

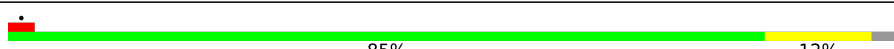





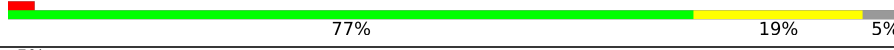
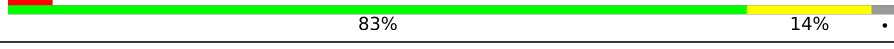



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Mol	Chain	Length	Quality of chain
1	xB	113	
1	xC	113	
1	xD	113	
1	yA	113	
1	yB	113	
1	yC	113	
1	yD	113	
1	zA	113	
1	zB	113	
1	zC	113	
1	zD	113	
2	0a	86	
2	0b	86	
2	0c	86	
2	0d	86	
2	1a	86	
2	1b	86	
2	1c	86	
2	1d	86	
2	2a	86	
2	2b	86	
2	2c	86	
2	2d	86	
2	3a	86	
2	3b	86	



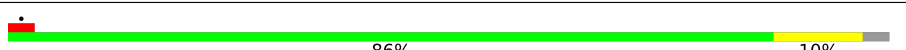
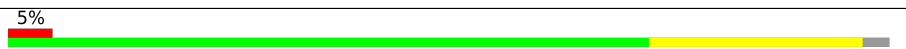

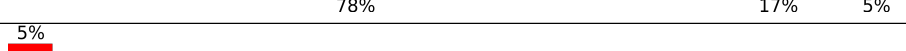
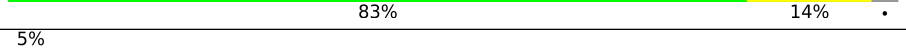





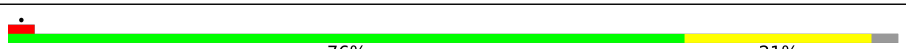


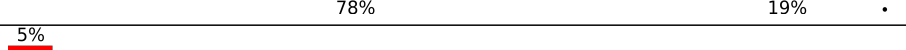








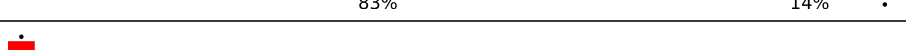
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Mol	Chain	Length	Quality of chain
2	3c	86	
2	3d	86	
2	4a	86	
2	4b	86	
2	4c	86	
2	4d	86	
2	5a	86	
2	5b	86	
2	5c	86	
2	5d	86	
2	6a	86	
2	6b	86	
2	6c	86	
2	6d	86	
2	7a	86	
2	7b	86	
2	7c	86	
2	7d	86	
2	Aa	86	
2	Ab	86	
2	Ac	86	
2	Ad	86	
2	Ba	86	
2	Bb	86	
2	Bc	86	

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Mol	Chain	Length	Quality of chain
2	Bd	86	
2	Ca	86	
2	Cb	86	
2	Cc	86	
2	Cd	86	
2	Da	86	
2	Db	86	
2	Dc	86	
2	Dd	86	
2	Ea	86	
2	Eb	86	
2	Ec	86	
2	Ed	86	
2	Fa	86	
2	Fb	86	
2	Fc	86	
2	Fd	86	
2	Ga	86	
2	Gb	86	
2	Gc	86	
2	Gd	86	
2	Ha	86	
2	Hb	86	
2	Hc	86	
2	Hd	86	







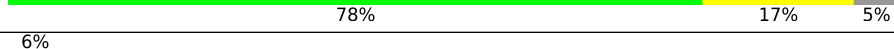
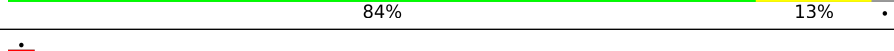
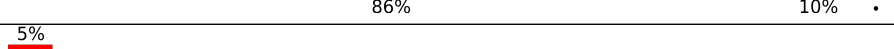
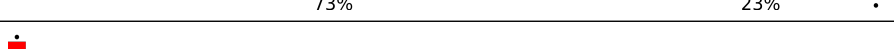
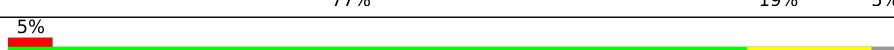

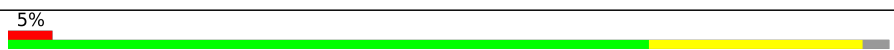

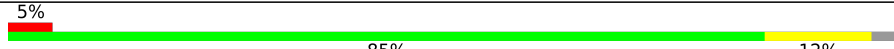





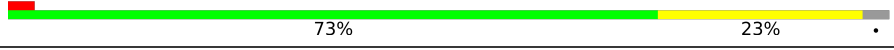
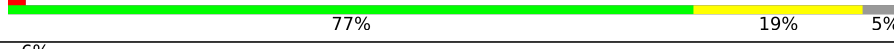



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Mol	Chain	Length	Quality of chain
2	Ia	86	
2	Ib	86	
2	Ic	86	
2	Id	86	
2	Ja	86	
2	Jb	86	
2	Jc	86	
2	Jd	86	
2	Ka	86	
2	Kb	86	
2	Kc	86	
2	Kd	86	
2	La	86	
2	Lb	86	
2	Lc	86	
2	Ld	86	
2	Ma	86	
2	Mb	86	
2	Mc	86	
2	Md	86	
2	Na	86	
2	Nb	86	
2	Nc	86	
2	Nd	86	
2	Oa	86	

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Mol	Chain	Length	Quality of chain
2	Ob	86	
2	Oc	86	
2	Od	86	
2	Pa	86	
2	Pb	86	
2	Pc	86	
2	Pd	86	
2	Qa	86	
2	Qb	86	
2	Qc	86	
2	Qd	86	
2	Ra	86	
2	Rb	86	
2	Rc	86	
2	Rd	86	
2	Sa	86	
2	Sb	86	
2	Sc	86	
2	Sd	86	
2	Ta	86	
2	Tb	86	
2	Tc	86	
2	Td	86	
2	Ua	86	
2	Ub	86	



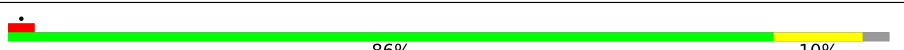
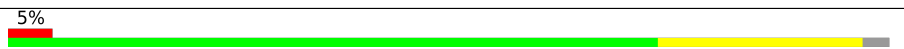

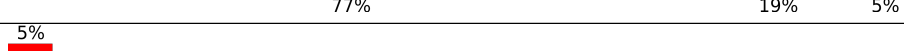
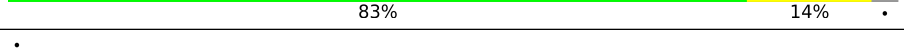





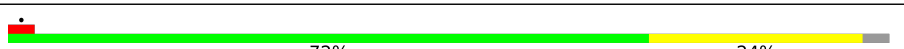


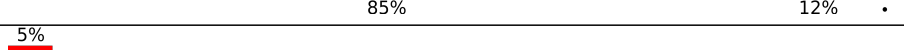








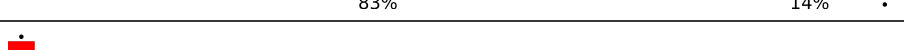
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Mol	Chain	Length	Quality of chain
2	Uc	86	
2	Ud	86	
2	Va	86	
2	Vb	86	
2	Vc	86	
2	Vd	86	
2	Wa	86	
2	Wb	86	
2	Wc	86	
2	Wd	86	
2	Xa	86	
2	Xb	86	
2	Xc	86	
2	Xd	86	
2	Ya	86	
2	Yb	86	
2	Yc	86	
2	Yd	86	
2	Za	86	
2	Zb	86	
2	Zc	86	
2	Zd	86	
2	aa	86	
2	ab	86	
2	ac	86	

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Mol	Chain	Length	Quality of chain
2	ad	86	
2	ba	86	
2	bb	86	
2	bc	86	
2	bd	86	
2	ca	86	
2	cb	86	
2	cc	86	
2	cd	86	
2	da	86	
2	db	86	
2	dc	86	
2	dd	86	
2	ea	86	
2	eb	86	
2	ec	86	
2	ed	86	
2	fa	86	
2	fb	86	
2	fc	86	
2	fd	86	
2	ga	86	
2	gb	86	
2	gc	86	
2	gd	86	







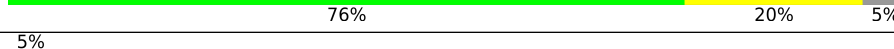
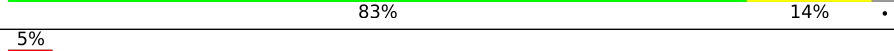
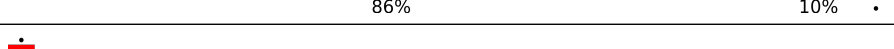
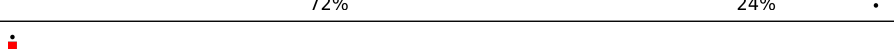
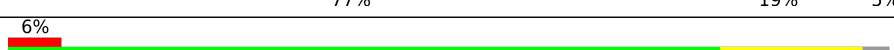

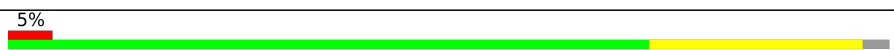

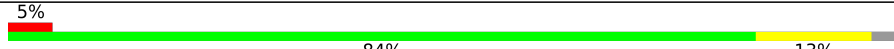





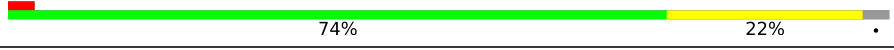
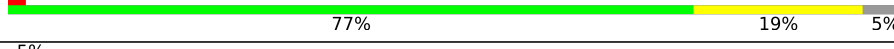



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Mol	Chain	Length	Quality of chain
2	ha	86	
2	hb	86	
2	hc	86	
2	hd	86	
2	ia	86	
2	ib	86	
2	ic	86	
2	id	86	
2	ja	86	
2	jb	86	
2	jc	86	
2	jd	86	
2	ka	86	
2	kb	86	
2	kc	86	
2	kd	86	
2	la	86	
2	lb	86	
2	lc	86	
2	ld	86	
2	ma	86	
2	mb	86	
2	mc	86	
2	md	86	
2	na	86	

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Mol	Chain	Length	Quality of chain
2	nb	86	
2	nc	86	
2	nd	86	
2	oa	86	
2	ob	86	
2	oc	86	
2	od	86	
2	pa	86	
2	pb	86	
2	pc	86	
2	pd	86	
2	qa	86	
2	qb	86	
2	qc	86	
2	qd	86	
2	ra	86	
2	rb	86	
2	rc	86	
2	rd	86	
2	sa	86	
2	sb	86	
2	sc	86	
2	sd	86	
2	ta	86	
2	tb	86	

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Mol	Chain	Length	Quality of chain
2	tc	86	
2	td	86	
2	ua	86	
2	ub	86	
2	uc	86	
2	ud	86	
2	va	86	
2	vb	86	
2	vc	86	
2	vd	86	
2	wa	86	
2	wb	86	
2	wc	86	
2	wd	86	
2	xa	86	
2	xb	86	
2	xc	86	
2	xd	86	
2	ya	86	
2	yb	86	
2	yc	86	
2	yd	86	
2	za	86	
2	zb	86	
2	zc	86	

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Mol	Chain	Length	Quality of chain
2	zd	86	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 268440 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called 6,7-dimethyl-8-ribityllumazine synthase.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	0A	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	0B	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	0C	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	0D	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	1A	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	1B	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	1C	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	1D	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	2A	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	2B	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	2C	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	2D	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	3A	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	3B	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	3C	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	3D	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	4A	63	Total	C	N	O	S	0	0
			477	299	85	92	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	4B	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	4C	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	4D	67	Total 506	C 317	N 89	O 99	S 1	0	0
1	5A	63	Total 477	C 299	N 85	O 92	S 1	0	0
1	5B	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	5C	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	5D	67	Total 506	C 317	N 89	O 99	S 1	0	0
1	6A	63	Total 477	C 299	N 85	O 92	S 1	0	0
1	6B	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	6C	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	6D	67	Total 506	C 317	N 89	O 99	S 1	0	0
1	7A	63	Total 477	C 299	N 85	O 92	S 1	0	0
1	7B	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	7C	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	7D	67	Total 506	C 317	N 89	O 99	S 1	0	0
1	AA	63	Total 477	C 299	N 85	O 92	S 1	0	0
1	AB	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	AC	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	AD	67	Total 506	C 317	N 89	O 99	S 1	0	0
1	BA	63	Total 477	C 299	N 85	O 92	S 1	0	0
1	BB	64	Total 481	C 301	N 86	O 93	S 1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	BC	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	BD	67	Total 506	C 317	N 89	O 99	S 1	0	0
1	CA	63	Total 477	C 299	N 85	O 92	S 1	0	0
1	CB	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	CC	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	CD	67	Total 506	C 317	N 89	O 99	S 1	0	0
1	DA	63	Total 477	C 299	N 85	O 92	S 1	0	0
1	DB	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	DC	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	DD	67	Total 506	C 317	N 89	O 99	S 1	0	0
1	EA	63	Total 477	C 299	N 85	O 92	S 1	0	0
1	EB	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	EC	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	ED	67	Total 506	C 317	N 89	O 99	S 1	0	0
1	FA	63	Total 477	C 299	N 85	O 92	S 1	0	0
1	FB	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	FC	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	FD	67	Total 506	C 317	N 89	O 99	S 1	0	0
1	GA	63	Total 477	C 299	N 85	O 92	S 1	0	0
1	GB	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	GC	64	Total 481	C 301	N 86	O 93	S 1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	GD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	HA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	HB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	HC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	HD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	IA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	IB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	IC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	ID	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	JA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	JB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	JC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	JD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	KA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	KB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	KC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	KD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	LA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	LB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	LC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	LD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	MA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	MB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	MC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	MD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	NA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	NB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	NC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	ND	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	OA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	OB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	OC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	OD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	PA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	PB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	PC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	PD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	QA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	QB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	QC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	QD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	RA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	RB	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	RC	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	RD	67	Total 506	C 317	N 89	O 99	S 1	0	0
1	SA	63	Total 477	C 299	N 85	O 92	S 1	0	0
1	SB	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	SC	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	SD	67	Total 506	C 317	N 89	O 99	S 1	0	0
1	TA	63	Total 477	C 299	N 85	O 92	S 1	0	0
1	TB	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	TC	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	TD	67	Total 506	C 317	N 89	O 99	S 1	0	0
1	UA	63	Total 477	C 299	N 85	O 92	S 1	0	0
1	UB	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	UC	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	UD	67	Total 506	C 317	N 89	O 99	S 1	0	0
1	VA	63	Total 477	C 299	N 85	O 92	S 1	0	0
1	VB	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	VC	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	VD	67	Total 506	C 317	N 89	O 99	S 1	0	0
1	WA	63	Total 477	C 299	N 85	O 92	S 1	0	0
1	WB	64	Total 481	C 301	N 86	O 93	S 1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	WC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	WD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	XA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	XB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	XC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	XD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	YA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	YB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	YC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	YD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	ZA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	ZB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	ZC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	ZD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	aA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	aB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	aC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	aD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	bA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	bB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	bC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	bD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	cA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	cB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	cC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	cD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	dA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	dB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	dC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	dD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	eA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	eB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	eC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	eD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	fA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	fB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	fC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	fD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	gA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	gB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	gC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	gD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	hA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	hB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	hC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	hD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	iA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	iB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	iC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	iD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	jA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	jB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	jC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	jD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	kA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	kB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	kC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	kD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	lA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	lB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	lC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	lD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	mA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	mB	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	mC	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	mD	67	Total 506	C 317	N 89	O 99	S 1	0	0
1	nA	63	Total 477	C 299	N 85	O 92	S 1	0	0
1	nB	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	nC	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	nD	67	Total 506	C 317	N 89	O 99	S 1	0	0
1	oA	63	Total 477	C 299	N 85	O 92	S 1	0	0
1	oB	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	oC	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	oD	67	Total 506	C 317	N 89	O 99	S 1	0	0
1	pA	63	Total 477	C 299	N 85	O 92	S 1	0	0
1	pB	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	pC	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	pD	67	Total 506	C 317	N 89	O 99	S 1	0	0
1	qA	63	Total 477	C 299	N 85	O 92	S 1	0	0
1	qB	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	qC	64	Total 481	C 301	N 86	O 93	S 1	0	0
1	qD	67	Total 506	C 317	N 89	O 99	S 1	0	0
1	rA	63	Total 477	C 299	N 85	O 92	S 1	0	0
1	rB	64	Total 481	C 301	N 86	O 93	S 1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	rC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	rD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	sA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	sB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	sC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	sD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	tA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	tB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	tC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	tD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	uA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	uB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	uC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	uD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	vA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	vB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	vC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	vD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	wA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	wB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	wC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	wD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	xA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	xB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	xC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	xD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	yA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	yB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	yC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	yD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		
1	zA	63	Total	C	N	O	S	0	0
			477	299	85	92	1		
1	zB	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	zC	64	Total	C	N	O	S	0	0
			481	301	86	93	1		
1	zD	67	Total	C	N	O	S	0	0
			506	317	89	99	1		

There are 12000 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
0A	1	MET	-	initiating methionine	UNP O66529
0A	2	GLY	-	expression tag	UNP O66529
0A	3	ASN	-	expression tag	UNP O66529
0A	4	ALA	-	expression tag	UNP O66529
0A	5	ARG	-	expression tag	UNP O66529
0A	6	THR	-	expression tag	UNP O66529
0A	7	ARG	-	expression tag	UNP O66529
0A	8	ARG	-	expression tag	UNP O66529
0A	9	ARG	-	expression tag	UNP O66529
0A	10	GLU	-	expression tag	UNP O66529
0A	11	ARG	-	expression tag	UNP O66529
0A	12	ARG	-	expression tag	UNP O66529
0A	13	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
0A	14	GLU	-	expression tag	UNP O66529
0A	15	LYS	-	expression tag	UNP O66529
0A	16	GLN	-	expression tag	UNP O66529
0A	17	ALA	-	expression tag	UNP O66529
0A	18	GLN	-	expression tag	UNP O66529
0A	19	TRP	-	expression tag	UNP O66529
0A	20	LYS	-	expression tag	UNP O66529
0A	21	ALA	-	expression tag	UNP O66529
0A	22	ALA	-	expression tag	UNP O66529
0A	23	ASN	-	expression tag	UNP O66529
0A	24	ALA	-	expression tag	UNP O66529
0A	25	GLY	-	expression tag	UNP O66529
0A	26	ALA	-	expression tag	UNP O66529
0A	27	GLY	-	expression tag	UNP O66529
0A	28	ALA	-	expression tag	UNP O66529
0A	29	GLY	-	expression tag	UNP O66529
0A	30	ALA	-	expression tag	UNP O66529
0A	31	MET	-	expression tag	UNP O66529
0A	39	ASN	ILE	conflict	UNP O66529
0A	42	VAL	GLU	conflict	UNP O66529
0A	58	VAL	ILE	conflict	UNP O66529
0A	59	SER	THR	conflict	UNP O66529
0A	61	ASP	GLY	conflict	UNP O66529
0A	62	ILE	VAL	conflict	UNP O66529
0A	97	TYR	PHE	conflict	UNP O66529
0A	102	GLY	-	expression tag	UNP O66529
0A	103	THR	-	expression tag	UNP O66529
0A	104	GLU	-	expression tag	UNP O66529
0A	105	HIS	-	expression tag	UNP O66529
0A	106	HIS	-	expression tag	UNP O66529
0A	107	HIS	-	expression tag	UNP O66529
0A	108	HIS	-	expression tag	UNP O66529
0A	109	LEU	-	expression tag	UNP O66529
0A	110	HIS	-	expression tag	UNP O66529
0A	111	GLY	-	expression tag	UNP O66529
0A	112	SER	-	expression tag	UNP O66529
0A	113	SER	-	expression tag	UNP O66529
0B	1	MET	-	initiating methionine	UNP O66529
0B	2	GLY	-	expression tag	UNP O66529
0B	3	ASN	-	expression tag	UNP O66529
0B	4	ALA	-	expression tag	UNP O66529
0B	5	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
0B	6	THR	-	expression tag	UNP O66529
0B	7	ARG	-	expression tag	UNP O66529
0B	8	ARG	-	expression tag	UNP O66529
0B	9	ARG	-	expression tag	UNP O66529
0B	10	GLU	-	expression tag	UNP O66529
0B	11	ARG	-	expression tag	UNP O66529
0B	12	ARG	-	expression tag	UNP O66529
0B	13	ALA	-	expression tag	UNP O66529
0B	14	GLU	-	expression tag	UNP O66529
0B	15	LYS	-	expression tag	UNP O66529
0B	16	GLN	-	expression tag	UNP O66529
0B	17	ALA	-	expression tag	UNP O66529
0B	18	GLN	-	expression tag	UNP O66529
0B	19	TRP	-	expression tag	UNP O66529
0B	20	LYS	-	expression tag	UNP O66529
0B	21	ALA	-	expression tag	UNP O66529
0B	22	ALA	-	expression tag	UNP O66529
0B	23	ASN	-	expression tag	UNP O66529
0B	24	ALA	-	expression tag	UNP O66529
0B	25	GLY	-	expression tag	UNP O66529
0B	26	ALA	-	expression tag	UNP O66529
0B	27	GLY	-	expression tag	UNP O66529
0B	28	ALA	-	expression tag	UNP O66529
0B	29	GLY	-	expression tag	UNP O66529
0B	30	ALA	-	expression tag	UNP O66529
0B	31	MET	-	expression tag	UNP O66529
0B	39	ASN	ILE	conflict	UNP O66529
0B	42	VAL	GLU	conflict	UNP O66529
0B	58	VAL	ILE	conflict	UNP O66529
0B	59	SER	THR	conflict	UNP O66529
0B	61	ASP	GLY	conflict	UNP O66529
0B	62	ILE	VAL	conflict	UNP O66529
0B	97	TYR	PHE	conflict	UNP O66529
0B	102	GLY	-	expression tag	UNP O66529
0B	103	THR	-	expression tag	UNP O66529
0B	104	GLU	-	expression tag	UNP O66529
0B	105	HIS	-	expression tag	UNP O66529
0B	106	HIS	-	expression tag	UNP O66529
0B	107	HIS	-	expression tag	UNP O66529
0B	108	HIS	-	expression tag	UNP O66529
0B	109	LEU	-	expression tag	UNP O66529
0B	110	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
0B	111	GLY	-	expression tag	UNP O66529
0B	112	SER	-	expression tag	UNP O66529
0B	113	SER	-	expression tag	UNP O66529
0C	1	MET	-	initiating methionine	UNP O66529
0C	2	GLY	-	expression tag	UNP O66529
0C	3	ASN	-	expression tag	UNP O66529
0C	4	ALA	-	expression tag	UNP O66529
0C	5	ARG	-	expression tag	UNP O66529
0C	6	THR	-	expression tag	UNP O66529
0C	7	ARG	-	expression tag	UNP O66529
0C	8	ARG	-	expression tag	UNP O66529
0C	9	ARG	-	expression tag	UNP O66529
0C	10	GLU	-	expression tag	UNP O66529
0C	11	ARG	-	expression tag	UNP O66529
0C	12	ARG	-	expression tag	UNP O66529
0C	13	ALA	-	expression tag	UNP O66529
0C	14	GLU	-	expression tag	UNP O66529
0C	15	LYS	-	expression tag	UNP O66529
0C	16	GLN	-	expression tag	UNP O66529
0C	17	ALA	-	expression tag	UNP O66529
0C	18	GLN	-	expression tag	UNP O66529
0C	19	TRP	-	expression tag	UNP O66529
0C	20	LYS	-	expression tag	UNP O66529
0C	21	ALA	-	expression tag	UNP O66529
0C	22	ALA	-	expression tag	UNP O66529
0C	23	ASN	-	expression tag	UNP O66529
0C	24	ALA	-	expression tag	UNP O66529
0C	25	GLY	-	expression tag	UNP O66529
0C	26	ALA	-	expression tag	UNP O66529
0C	27	GLY	-	expression tag	UNP O66529
0C	28	ALA	-	expression tag	UNP O66529
0C	29	GLY	-	expression tag	UNP O66529
0C	30	ALA	-	expression tag	UNP O66529
0C	31	MET	-	expression tag	UNP O66529
0C	39	ASN	ILE	conflict	UNP O66529
0C	42	VAL	GLU	conflict	UNP O66529
0C	58	VAL	ILE	conflict	UNP O66529
0C	59	SER	THR	conflict	UNP O66529
0C	61	ASP	GLY	conflict	UNP O66529
0C	62	ILE	VAL	conflict	UNP O66529
0C	97	TYR	PHE	conflict	UNP O66529
0C	102	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
0C	103	THR	-	expression tag	UNP O66529
0C	104	GLU	-	expression tag	UNP O66529
0C	105	HIS	-	expression tag	UNP O66529
0C	106	HIS	-	expression tag	UNP O66529
0C	107	HIS	-	expression tag	UNP O66529
0C	108	HIS	-	expression tag	UNP O66529
0C	109	LEU	-	expression tag	UNP O66529
0C	110	HIS	-	expression tag	UNP O66529
0C	111	GLY	-	expression tag	UNP O66529
0C	112	SER	-	expression tag	UNP O66529
0C	113	SER	-	expression tag	UNP O66529
0D	1	MET	-	initiating methionine	UNP O66529
0D	2	GLY	-	expression tag	UNP O66529
0D	3	ASN	-	expression tag	UNP O66529
0D	4	ALA	-	expression tag	UNP O66529
0D	5	ARG	-	expression tag	UNP O66529
0D	6	THR	-	expression tag	UNP O66529
0D	7	ARG	-	expression tag	UNP O66529
0D	8	ARG	-	expression tag	UNP O66529
0D	9	ARG	-	expression tag	UNP O66529
0D	10	GLU	-	expression tag	UNP O66529
0D	11	ARG	-	expression tag	UNP O66529
0D	12	ARG	-	expression tag	UNP O66529
0D	13	ALA	-	expression tag	UNP O66529
0D	14	GLU	-	expression tag	UNP O66529
0D	15	LYS	-	expression tag	UNP O66529
0D	16	GLN	-	expression tag	UNP O66529
0D	17	ALA	-	expression tag	UNP O66529
0D	18	GLN	-	expression tag	UNP O66529
0D	19	TRP	-	expression tag	UNP O66529
0D	20	LYS	-	expression tag	UNP O66529
0D	21	ALA	-	expression tag	UNP O66529
0D	22	ALA	-	expression tag	UNP O66529
0D	23	ASN	-	expression tag	UNP O66529
0D	24	ALA	-	expression tag	UNP O66529
0D	25	GLY	-	expression tag	UNP O66529
0D	26	ALA	-	expression tag	UNP O66529
0D	27	GLY	-	expression tag	UNP O66529
0D	28	ALA	-	expression tag	UNP O66529
0D	29	GLY	-	expression tag	UNP O66529
0D	30	ALA	-	expression tag	UNP O66529
0D	31	MET	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
0D	39	ASN	ILE	conflict	UNP O66529
0D	42	VAL	GLU	conflict	UNP O66529
0D	58	VAL	ILE	conflict	UNP O66529
0D	59	SER	THR	conflict	UNP O66529
0D	61	ASP	GLY	conflict	UNP O66529
0D	62	ILE	VAL	conflict	UNP O66529
0D	97	TYR	PHE	conflict	UNP O66529
0D	102	GLY	-	expression tag	UNP O66529
0D	103	THR	-	expression tag	UNP O66529
0D	104	GLU	-	expression tag	UNP O66529
0D	105	HIS	-	expression tag	UNP O66529
0D	106	HIS	-	expression tag	UNP O66529
0D	107	HIS	-	expression tag	UNP O66529
0D	108	HIS	-	expression tag	UNP O66529
0D	109	LEU	-	expression tag	UNP O66529
0D	110	HIS	-	expression tag	UNP O66529
0D	111	GLY	-	expression tag	UNP O66529
0D	112	SER	-	expression tag	UNP O66529
0D	113	SER	-	expression tag	UNP O66529
1A	1	MET	-	initiating methionine	UNP O66529
1A	2	GLY	-	expression tag	UNP O66529
1A	3	ASN	-	expression tag	UNP O66529
1A	4	ALA	-	expression tag	UNP O66529
1A	5	ARG	-	expression tag	UNP O66529
1A	6	THR	-	expression tag	UNP O66529
1A	7	ARG	-	expression tag	UNP O66529
1A	8	ARG	-	expression tag	UNP O66529
1A	9	ARG	-	expression tag	UNP O66529
1A	10	GLU	-	expression tag	UNP O66529
1A	11	ARG	-	expression tag	UNP O66529
1A	12	ARG	-	expression tag	UNP O66529
1A	13	ALA	-	expression tag	UNP O66529
1A	14	GLU	-	expression tag	UNP O66529
1A	15	LYS	-	expression tag	UNP O66529
1A	16	GLN	-	expression tag	UNP O66529
1A	17	ALA	-	expression tag	UNP O66529
1A	18	GLN	-	expression tag	UNP O66529
1A	19	TRP	-	expression tag	UNP O66529
1A	20	LYS	-	expression tag	UNP O66529
1A	21	ALA	-	expression tag	UNP O66529
1A	22	ALA	-	expression tag	UNP O66529
1A	23	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
1A	24	ALA	-	expression tag	UNP O66529
1A	25	GLY	-	expression tag	UNP O66529
1A	26	ALA	-	expression tag	UNP O66529
1A	27	GLY	-	expression tag	UNP O66529
1A	28	ALA	-	expression tag	UNP O66529
1A	29	GLY	-	expression tag	UNP O66529
1A	30	ALA	-	expression tag	UNP O66529
1A	31	MET	-	expression tag	UNP O66529
1A	39	ASN	ILE	conflict	UNP O66529
1A	42	VAL	GLU	conflict	UNP O66529
1A	58	VAL	ILE	conflict	UNP O66529
1A	59	SER	THR	conflict	UNP O66529
1A	61	ASP	GLY	conflict	UNP O66529
1A	62	ILE	VAL	conflict	UNP O66529
1A	97	TYR	PHE	conflict	UNP O66529
1A	102	GLY	-	expression tag	UNP O66529
1A	103	THR	-	expression tag	UNP O66529
1A	104	GLU	-	expression tag	UNP O66529
1A	105	HIS	-	expression tag	UNP O66529
1A	106	HIS	-	expression tag	UNP O66529
1A	107	HIS	-	expression tag	UNP O66529
1A	108	HIS	-	expression tag	UNP O66529
1A	109	LEU	-	expression tag	UNP O66529
1A	110	HIS	-	expression tag	UNP O66529
1A	111	GLY	-	expression tag	UNP O66529
1A	112	SER	-	expression tag	UNP O66529
1A	113	SER	-	expression tag	UNP O66529
1B	1	MET	-	initiating methionine	UNP O66529
1B	2	GLY	-	expression tag	UNP O66529
1B	3	ASN	-	expression tag	UNP O66529
1B	4	ALA	-	expression tag	UNP O66529
1B	5	ARG	-	expression tag	UNP O66529
1B	6	THR	-	expression tag	UNP O66529
1B	7	ARG	-	expression tag	UNP O66529
1B	8	ARG	-	expression tag	UNP O66529
1B	9	ARG	-	expression tag	UNP O66529
1B	10	GLU	-	expression tag	UNP O66529
1B	11	ARG	-	expression tag	UNP O66529
1B	12	ARG	-	expression tag	UNP O66529
1B	13	ALA	-	expression tag	UNP O66529
1B	14	GLU	-	expression tag	UNP O66529
1B	15	LYS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
1B	16	GLN	-	expression tag	UNP O66529
1B	17	ALA	-	expression tag	UNP O66529
1B	18	GLN	-	expression tag	UNP O66529
1B	19	TRP	-	expression tag	UNP O66529
1B	20	LYS	-	expression tag	UNP O66529
1B	21	ALA	-	expression tag	UNP O66529
1B	22	ALA	-	expression tag	UNP O66529
1B	23	ASN	-	expression tag	UNP O66529
1B	24	ALA	-	expression tag	UNP O66529
1B	25	GLY	-	expression tag	UNP O66529
1B	26	ALA	-	expression tag	UNP O66529
1B	27	GLY	-	expression tag	UNP O66529
1B	28	ALA	-	expression tag	UNP O66529
1B	29	GLY	-	expression tag	UNP O66529
1B	30	ALA	-	expression tag	UNP O66529
1B	31	MET	-	expression tag	UNP O66529
1B	39	ASN	ILE	conflict	UNP O66529
1B	42	VAL	GLU	conflict	UNP O66529
1B	58	VAL	ILE	conflict	UNP O66529
1B	59	SER	THR	conflict	UNP O66529
1B	61	ASP	GLY	conflict	UNP O66529
1B	62	ILE	VAL	conflict	UNP O66529
1B	97	TYR	PHE	conflict	UNP O66529
1B	102	GLY	-	expression tag	UNP O66529
1B	103	THR	-	expression tag	UNP O66529
1B	104	GLU	-	expression tag	UNP O66529
1B	105	HIS	-	expression tag	UNP O66529
1B	106	HIS	-	expression tag	UNP O66529
1B	107	HIS	-	expression tag	UNP O66529
1B	108	HIS	-	expression tag	UNP O66529
1B	109	LEU	-	expression tag	UNP O66529
1B	110	HIS	-	expression tag	UNP O66529
1B	111	GLY	-	expression tag	UNP O66529
1B	112	SER	-	expression tag	UNP O66529
1B	113	SER	-	expression tag	UNP O66529
1C	1	MET	-	initiating methionine	UNP O66529
1C	2	GLY	-	expression tag	UNP O66529
1C	3	ASN	-	expression tag	UNP O66529
1C	4	ALA	-	expression tag	UNP O66529
1C	5	ARG	-	expression tag	UNP O66529
1C	6	THR	-	expression tag	UNP O66529
1C	7	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
1C	8	ARG	-	expression tag	UNP O66529
1C	9	ARG	-	expression tag	UNP O66529
1C	10	GLU	-	expression tag	UNP O66529
1C	11	ARG	-	expression tag	UNP O66529
1C	12	ARG	-	expression tag	UNP O66529
1C	13	ALA	-	expression tag	UNP O66529
1C	14	GLU	-	expression tag	UNP O66529
1C	15	LYS	-	expression tag	UNP O66529
1C	16	GLN	-	expression tag	UNP O66529
1C	17	ALA	-	expression tag	UNP O66529
1C	18	GLN	-	expression tag	UNP O66529
1C	19	TRP	-	expression tag	UNP O66529
1C	20	LYS	-	expression tag	UNP O66529
1C	21	ALA	-	expression tag	UNP O66529
1C	22	ALA	-	expression tag	UNP O66529
1C	23	ASN	-	expression tag	UNP O66529
1C	24	ALA	-	expression tag	UNP O66529
1C	25	GLY	-	expression tag	UNP O66529
1C	26	ALA	-	expression tag	UNP O66529
1C	27	GLY	-	expression tag	UNP O66529
1C	28	ALA	-	expression tag	UNP O66529
1C	29	GLY	-	expression tag	UNP O66529
1C	30	ALA	-	expression tag	UNP O66529
1C	31	MET	-	expression tag	UNP O66529
1C	39	ASN	ILE	conflict	UNP O66529
1C	42	VAL	GLU	conflict	UNP O66529
1C	58	VAL	ILE	conflict	UNP O66529
1C	59	SER	THR	conflict	UNP O66529
1C	61	ASP	GLY	conflict	UNP O66529
1C	62	ILE	VAL	conflict	UNP O66529
1C	97	TYR	PHE	conflict	UNP O66529
1C	102	GLY	-	expression tag	UNP O66529
1C	103	THR	-	expression tag	UNP O66529
1C	104	GLU	-	expression tag	UNP O66529
1C	105	HIS	-	expression tag	UNP O66529
1C	106	HIS	-	expression tag	UNP O66529
1C	107	HIS	-	expression tag	UNP O66529
1C	108	HIS	-	expression tag	UNP O66529
1C	109	LEU	-	expression tag	UNP O66529
1C	110	HIS	-	expression tag	UNP O66529
1C	111	GLY	-	expression tag	UNP O66529
1C	112	SER	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
1C	113	SER	-	expression tag	UNP O66529
1D	1	MET	-	initiating methionine	UNP O66529
1D	2	GLY	-	expression tag	UNP O66529
1D	3	ASN	-	expression tag	UNP O66529
1D	4	ALA	-	expression tag	UNP O66529
1D	5	ARG	-	expression tag	UNP O66529
1D	6	THR	-	expression tag	UNP O66529
1D	7	ARG	-	expression tag	UNP O66529
1D	8	ARG	-	expression tag	UNP O66529
1D	9	ARG	-	expression tag	UNP O66529
1D	10	GLU	-	expression tag	UNP O66529
1D	11	ARG	-	expression tag	UNP O66529
1D	12	ARG	-	expression tag	UNP O66529
1D	13	ALA	-	expression tag	UNP O66529
1D	14	GLU	-	expression tag	UNP O66529
1D	15	LYS	-	expression tag	UNP O66529
1D	16	GLN	-	expression tag	UNP O66529
1D	17	ALA	-	expression tag	UNP O66529
1D	18	GLN	-	expression tag	UNP O66529
1D	19	TRP	-	expression tag	UNP O66529
1D	20	LYS	-	expression tag	UNP O66529
1D	21	ALA	-	expression tag	UNP O66529
1D	22	ALA	-	expression tag	UNP O66529
1D	23	ASN	-	expression tag	UNP O66529
1D	24	ALA	-	expression tag	UNP O66529
1D	25	GLY	-	expression tag	UNP O66529
1D	26	ALA	-	expression tag	UNP O66529
1D	27	GLY	-	expression tag	UNP O66529
1D	28	ALA	-	expression tag	UNP O66529
1D	29	GLY	-	expression tag	UNP O66529
1D	30	ALA	-	expression tag	UNP O66529
1D	31	MET	-	expression tag	UNP O66529
1D	39	ASN	ILE	conflict	UNP O66529
1D	42	VAL	GLU	conflict	UNP O66529
1D	58	VAL	ILE	conflict	UNP O66529
1D	59	SER	THR	conflict	UNP O66529
1D	61	ASP	GLY	conflict	UNP O66529
1D	62	ILE	VAL	conflict	UNP O66529
1D	97	TYR	PHE	conflict	UNP O66529
1D	102	GLY	-	expression tag	UNP O66529
1D	103	THR	-	expression tag	UNP O66529
1D	104	GLU	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
1D	105	HIS	-	expression tag	UNP O66529
1D	106	HIS	-	expression tag	UNP O66529
1D	107	HIS	-	expression tag	UNP O66529
1D	108	HIS	-	expression tag	UNP O66529
1D	109	LEU	-	expression tag	UNP O66529
1D	110	HIS	-	expression tag	UNP O66529
1D	111	GLY	-	expression tag	UNP O66529
1D	112	SER	-	expression tag	UNP O66529
1D	113	SER	-	expression tag	UNP O66529
2A	1	MET	-	initiating methionine	UNP O66529
2A	2	GLY	-	expression tag	UNP O66529
2A	3	ASN	-	expression tag	UNP O66529
2A	4	ALA	-	expression tag	UNP O66529
2A	5	ARG	-	expression tag	UNP O66529
2A	6	THR	-	expression tag	UNP O66529
2A	7	ARG	-	expression tag	UNP O66529
2A	8	ARG	-	expression tag	UNP O66529
2A	9	ARG	-	expression tag	UNP O66529
2A	10	GLU	-	expression tag	UNP O66529
2A	11	ARG	-	expression tag	UNP O66529
2A	12	ARG	-	expression tag	UNP O66529
2A	13	ALA	-	expression tag	UNP O66529
2A	14	GLU	-	expression tag	UNP O66529
2A	15	LYS	-	expression tag	UNP O66529
2A	16	GLN	-	expression tag	UNP O66529
2A	17	ALA	-	expression tag	UNP O66529
2A	18	GLN	-	expression tag	UNP O66529
2A	19	TRP	-	expression tag	UNP O66529
2A	20	LYS	-	expression tag	UNP O66529
2A	21	ALA	-	expression tag	UNP O66529
2A	22	ALA	-	expression tag	UNP O66529
2A	23	ASN	-	expression tag	UNP O66529
2A	24	ALA	-	expression tag	UNP O66529
2A	25	GLY	-	expression tag	UNP O66529
2A	26	ALA	-	expression tag	UNP O66529
2A	27	GLY	-	expression tag	UNP O66529
2A	28	ALA	-	expression tag	UNP O66529
2A	29	GLY	-	expression tag	UNP O66529
2A	30	ALA	-	expression tag	UNP O66529
2A	31	MET	-	expression tag	UNP O66529
2A	39	ASN	ILE	conflict	UNP O66529
2A	42	VAL	GLU	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
2A	58	VAL	ILE	conflict	UNP O66529
2A	59	SER	THR	conflict	UNP O66529
2A	61	ASP	GLY	conflict	UNP O66529
2A	62	ILE	VAL	conflict	UNP O66529
2A	97	TYR	PHE	conflict	UNP O66529
2A	102	GLY	-	expression tag	UNP O66529
2A	103	THR	-	expression tag	UNP O66529
2A	104	GLU	-	expression tag	UNP O66529
2A	105	HIS	-	expression tag	UNP O66529
2A	106	HIS	-	expression tag	UNP O66529
2A	107	HIS	-	expression tag	UNP O66529
2A	108	HIS	-	expression tag	UNP O66529
2A	109	LEU	-	expression tag	UNP O66529
2A	110	HIS	-	expression tag	UNP O66529
2A	111	GLY	-	expression tag	UNP O66529
2A	112	SER	-	expression tag	UNP O66529
2A	113	SER	-	expression tag	UNP O66529
2B	1	MET	-	initiating methionine	UNP O66529
2B	2	GLY	-	expression tag	UNP O66529
2B	3	ASN	-	expression tag	UNP O66529
2B	4	ALA	-	expression tag	UNP O66529
2B	5	ARG	-	expression tag	UNP O66529
2B	6	THR	-	expression tag	UNP O66529
2B	7	ARG	-	expression tag	UNP O66529
2B	8	ARG	-	expression tag	UNP O66529
2B	9	ARG	-	expression tag	UNP O66529
2B	10	GLU	-	expression tag	UNP O66529
2B	11	ARG	-	expression tag	UNP O66529
2B	12	ARG	-	expression tag	UNP O66529
2B	13	ALA	-	expression tag	UNP O66529
2B	14	GLU	-	expression tag	UNP O66529
2B	15	LYS	-	expression tag	UNP O66529
2B	16	GLN	-	expression tag	UNP O66529
2B	17	ALA	-	expression tag	UNP O66529
2B	18	GLN	-	expression tag	UNP O66529
2B	19	TRP	-	expression tag	UNP O66529
2B	20	LYS	-	expression tag	UNP O66529
2B	21	ALA	-	expression tag	UNP O66529
2B	22	ALA	-	expression tag	UNP O66529
2B	23	ASN	-	expression tag	UNP O66529
2B	24	ALA	-	expression tag	UNP O66529
2B	25	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
2B	26	ALA	-	expression tag	UNP O66529
2B	27	GLY	-	expression tag	UNP O66529
2B	28	ALA	-	expression tag	UNP O66529
2B	29	GLY	-	expression tag	UNP O66529
2B	30	ALA	-	expression tag	UNP O66529
2B	31	MET	-	expression tag	UNP O66529
2B	39	ASN	ILE	conflict	UNP O66529
2B	42	VAL	GLU	conflict	UNP O66529
2B	58	VAL	ILE	conflict	UNP O66529
2B	59	SER	THR	conflict	UNP O66529
2B	61	ASP	GLY	conflict	UNP O66529
2B	62	ILE	VAL	conflict	UNP O66529
2B	97	TYR	PHE	conflict	UNP O66529
2B	102	GLY	-	expression tag	UNP O66529
2B	103	THR	-	expression tag	UNP O66529
2B	104	GLU	-	expression tag	UNP O66529
2B	105	HIS	-	expression tag	UNP O66529
2B	106	HIS	-	expression tag	UNP O66529
2B	107	HIS	-	expression tag	UNP O66529
2B	108	HIS	-	expression tag	UNP O66529
2B	109	LEU	-	expression tag	UNP O66529
2B	110	HIS	-	expression tag	UNP O66529
2B	111	GLY	-	expression tag	UNP O66529
2B	112	SER	-	expression tag	UNP O66529
2B	113	SER	-	expression tag	UNP O66529
2C	1	MET	-	initiating methionine	UNP O66529
2C	2	GLY	-	expression tag	UNP O66529
2C	3	ASN	-	expression tag	UNP O66529
2C	4	ALA	-	expression tag	UNP O66529
2C	5	ARG	-	expression tag	UNP O66529
2C	6	THR	-	expression tag	UNP O66529
2C	7	ARG	-	expression tag	UNP O66529
2C	8	ARG	-	expression tag	UNP O66529
2C	9	ARG	-	expression tag	UNP O66529
2C	10	GLU	-	expression tag	UNP O66529
2C	11	ARG	-	expression tag	UNP O66529
2C	12	ARG	-	expression tag	UNP O66529
2C	13	ALA	-	expression tag	UNP O66529
2C	14	GLU	-	expression tag	UNP O66529
2C	15	LYS	-	expression tag	UNP O66529
2C	16	GLN	-	expression tag	UNP O66529
2C	17	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
2C	18	GLN	-	expression tag	UNP O66529
2C	19	TRP	-	expression tag	UNP O66529
2C	20	LYS	-	expression tag	UNP O66529
2C	21	ALA	-	expression tag	UNP O66529
2C	22	ALA	-	expression tag	UNP O66529
2C	23	ASN	-	expression tag	UNP O66529
2C	24	ALA	-	expression tag	UNP O66529
2C	25	GLY	-	expression tag	UNP O66529
2C	26	ALA	-	expression tag	UNP O66529
2C	27	GLY	-	expression tag	UNP O66529
2C	28	ALA	-	expression tag	UNP O66529
2C	29	GLY	-	expression tag	UNP O66529
2C	30	ALA	-	expression tag	UNP O66529
2C	31	MET	-	expression tag	UNP O66529
2C	39	ASN	ILE	conflict	UNP O66529
2C	42	VAL	GLU	conflict	UNP O66529
2C	58	VAL	ILE	conflict	UNP O66529
2C	59	SER	THR	conflict	UNP O66529
2C	61	ASP	GLY	conflict	UNP O66529
2C	62	ILE	VAL	conflict	UNP O66529
2C	97	TYR	PHE	conflict	UNP O66529
2C	102	GLY	-	expression tag	UNP O66529
2C	103	THR	-	expression tag	UNP O66529
2C	104	GLU	-	expression tag	UNP O66529
2C	105	HIS	-	expression tag	UNP O66529
2C	106	HIS	-	expression tag	UNP O66529
2C	107	HIS	-	expression tag	UNP O66529
2C	108	HIS	-	expression tag	UNP O66529
2C	109	LEU	-	expression tag	UNP O66529
2C	110	HIS	-	expression tag	UNP O66529
2C	111	GLY	-	expression tag	UNP O66529
2C	112	SER	-	expression tag	UNP O66529
2C	113	SER	-	expression tag	UNP O66529
2D	1	MET	-	initiating methionine	UNP O66529
2D	2	GLY	-	expression tag	UNP O66529
2D	3	ASN	-	expression tag	UNP O66529
2D	4	ALA	-	expression tag	UNP O66529
2D	5	ARG	-	expression tag	UNP O66529
2D	6	THR	-	expression tag	UNP O66529
2D	7	ARG	-	expression tag	UNP O66529
2D	8	ARG	-	expression tag	UNP O66529
2D	9	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
2D	10	GLU	-	expression tag	UNP O66529
2D	11	ARG	-	expression tag	UNP O66529
2D	12	ARG	-	expression tag	UNP O66529
2D	13	ALA	-	expression tag	UNP O66529
2D	14	GLU	-	expression tag	UNP O66529
2D	15	LYS	-	expression tag	UNP O66529
2D	16	GLN	-	expression tag	UNP O66529
2D	17	ALA	-	expression tag	UNP O66529
2D	18	GLN	-	expression tag	UNP O66529
2D	19	TRP	-	expression tag	UNP O66529
2D	20	LYS	-	expression tag	UNP O66529
2D	21	ALA	-	expression tag	UNP O66529
2D	22	ALA	-	expression tag	UNP O66529
2D	23	ASN	-	expression tag	UNP O66529
2D	24	ALA	-	expression tag	UNP O66529
2D	25	GLY	-	expression tag	UNP O66529
2D	26	ALA	-	expression tag	UNP O66529
2D	27	GLY	-	expression tag	UNP O66529
2D	28	ALA	-	expression tag	UNP O66529
2D	29	GLY	-	expression tag	UNP O66529
2D	30	ALA	-	expression tag	UNP O66529
2D	31	MET	-	expression tag	UNP O66529
2D	39	ASN	ILE	conflict	UNP O66529
2D	42	VAL	GLU	conflict	UNP O66529
2D	58	VAL	ILE	conflict	UNP O66529
2D	59	SER	THR	conflict	UNP O66529
2D	61	ASP	GLY	conflict	UNP O66529
2D	62	ILE	VAL	conflict	UNP O66529
2D	97	TYR	PHE	conflict	UNP O66529
2D	102	GLY	-	expression tag	UNP O66529
2D	103	THR	-	expression tag	UNP O66529
2D	104	GLU	-	expression tag	UNP O66529
2D	105	HIS	-	expression tag	UNP O66529
2D	106	HIS	-	expression tag	UNP O66529
2D	107	HIS	-	expression tag	UNP O66529
2D	108	HIS	-	expression tag	UNP O66529
2D	109	LEU	-	expression tag	UNP O66529
2D	110	HIS	-	expression tag	UNP O66529
2D	111	GLY	-	expression tag	UNP O66529
2D	112	SER	-	expression tag	UNP O66529
2D	113	SER	-	expression tag	UNP O66529
3A	1	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
3A	2	GLY	-	expression tag	UNP O66529
3A	3	ASN	-	expression tag	UNP O66529
3A	4	ALA	-	expression tag	UNP O66529
3A	5	ARG	-	expression tag	UNP O66529
3A	6	THR	-	expression tag	UNP O66529
3A	7	ARG	-	expression tag	UNP O66529
3A	8	ARG	-	expression tag	UNP O66529
3A	9	ARG	-	expression tag	UNP O66529
3A	10	GLU	-	expression tag	UNP O66529
3A	11	ARG	-	expression tag	UNP O66529
3A	12	ARG	-	expression tag	UNP O66529
3A	13	ALA	-	expression tag	UNP O66529
3A	14	GLU	-	expression tag	UNP O66529
3A	15	LYS	-	expression tag	UNP O66529
3A	16	GLN	-	expression tag	UNP O66529
3A	17	ALA	-	expression tag	UNP O66529
3A	18	GLN	-	expression tag	UNP O66529
3A	19	TRP	-	expression tag	UNP O66529
3A	20	LYS	-	expression tag	UNP O66529
3A	21	ALA	-	expression tag	UNP O66529
3A	22	ALA	-	expression tag	UNP O66529
3A	23	ASN	-	expression tag	UNP O66529
3A	24	ALA	-	expression tag	UNP O66529
3A	25	GLY	-	expression tag	UNP O66529
3A	26	ALA	-	expression tag	UNP O66529
3A	27	GLY	-	expression tag	UNP O66529
3A	28	ALA	-	expression tag	UNP O66529
3A	29	GLY	-	expression tag	UNP O66529
3A	30	ALA	-	expression tag	UNP O66529
3A	31	MET	-	expression tag	UNP O66529
3A	39	ASN	ILE	conflict	UNP O66529
3A	42	VAL	GLU	conflict	UNP O66529
3A	58	VAL	ILE	conflict	UNP O66529
3A	59	SER	THR	conflict	UNP O66529
3A	61	ASP	GLY	conflict	UNP O66529
3A	62	ILE	VAL	conflict	UNP O66529
3A	97	TYR	PHE	conflict	UNP O66529
3A	102	GLY	-	expression tag	UNP O66529
3A	103	THR	-	expression tag	UNP O66529
3A	104	GLU	-	expression tag	UNP O66529
3A	105	HIS	-	expression tag	UNP O66529
3A	106	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
3A	107	HIS	-	expression tag	UNP O66529
3A	108	HIS	-	expression tag	UNP O66529
3A	109	LEU	-	expression tag	UNP O66529
3A	110	HIS	-	expression tag	UNP O66529
3A	111	GLY	-	expression tag	UNP O66529
3A	112	SER	-	expression tag	UNP O66529
3A	113	SER	-	expression tag	UNP O66529
3B	1	MET	-	initiating methionine	UNP O66529
3B	2	GLY	-	expression tag	UNP O66529
3B	3	ASN	-	expression tag	UNP O66529
3B	4	ALA	-	expression tag	UNP O66529
3B	5	ARG	-	expression tag	UNP O66529
3B	6	THR	-	expression tag	UNP O66529
3B	7	ARG	-	expression tag	UNP O66529
3B	8	ARG	-	expression tag	UNP O66529
3B	9	ARG	-	expression tag	UNP O66529
3B	10	GLU	-	expression tag	UNP O66529
3B	11	ARG	-	expression tag	UNP O66529
3B	12	ARG	-	expression tag	UNP O66529
3B	13	ALA	-	expression tag	UNP O66529
3B	14	GLU	-	expression tag	UNP O66529
3B	15	LYS	-	expression tag	UNP O66529
3B	16	GLN	-	expression tag	UNP O66529
3B	17	ALA	-	expression tag	UNP O66529
3B	18	GLN	-	expression tag	UNP O66529
3B	19	TRP	-	expression tag	UNP O66529
3B	20	LYS	-	expression tag	UNP O66529
3B	21	ALA	-	expression tag	UNP O66529
3B	22	ALA	-	expression tag	UNP O66529
3B	23	ASN	-	expression tag	UNP O66529
3B	24	ALA	-	expression tag	UNP O66529
3B	25	GLY	-	expression tag	UNP O66529
3B	26	ALA	-	expression tag	UNP O66529
3B	27	GLY	-	expression tag	UNP O66529
3B	28	ALA	-	expression tag	UNP O66529
3B	29	GLY	-	expression tag	UNP O66529
3B	30	ALA	-	expression tag	UNP O66529
3B	31	MET	-	expression tag	UNP O66529
3B	39	ASN	ILE	conflict	UNP O66529
3B	42	VAL	GLU	conflict	UNP O66529
3B	58	VAL	ILE	conflict	UNP O66529
3B	59	SER	THR	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
3B	61	ASP	GLY	conflict	UNP O66529
3B	62	ILE	VAL	conflict	UNP O66529
3B	97	TYR	PHE	conflict	UNP O66529
3B	102	GLY	-	expression tag	UNP O66529
3B	103	THR	-	expression tag	UNP O66529
3B	104	GLU	-	expression tag	UNP O66529
3B	105	HIS	-	expression tag	UNP O66529
3B	106	HIS	-	expression tag	UNP O66529
3B	107	HIS	-	expression tag	UNP O66529
3B	108	HIS	-	expression tag	UNP O66529
3B	109	LEU	-	expression tag	UNP O66529
3B	110	HIS	-	expression tag	UNP O66529
3B	111	GLY	-	expression tag	UNP O66529
3B	112	SER	-	expression tag	UNP O66529
3B	113	SER	-	expression tag	UNP O66529
3C	1	MET	-	initiating methionine	UNP O66529
3C	2	GLY	-	expression tag	UNP O66529
3C	3	ASN	-	expression tag	UNP O66529
3C	4	ALA	-	expression tag	UNP O66529
3C	5	ARG	-	expression tag	UNP O66529
3C	6	THR	-	expression tag	UNP O66529
3C	7	ARG	-	expression tag	UNP O66529
3C	8	ARG	-	expression tag	UNP O66529
3C	9	ARG	-	expression tag	UNP O66529
3C	10	GLU	-	expression tag	UNP O66529
3C	11	ARG	-	expression tag	UNP O66529
3C	12	ARG	-	expression tag	UNP O66529
3C	13	ALA	-	expression tag	UNP O66529
3C	14	GLU	-	expression tag	UNP O66529
3C	15	LYS	-	expression tag	UNP O66529
3C	16	GLN	-	expression tag	UNP O66529
3C	17	ALA	-	expression tag	UNP O66529
3C	18	GLN	-	expression tag	UNP O66529
3C	19	TRP	-	expression tag	UNP O66529
3C	20	LYS	-	expression tag	UNP O66529
3C	21	ALA	-	expression tag	UNP O66529
3C	22	ALA	-	expression tag	UNP O66529
3C	23	ASN	-	expression tag	UNP O66529
3C	24	ALA	-	expression tag	UNP O66529
3C	25	GLY	-	expression tag	UNP O66529
3C	26	ALA	-	expression tag	UNP O66529
3C	27	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
3C	28	ALA	-	expression tag	UNP O66529
3C	29	GLY	-	expression tag	UNP O66529
3C	30	ALA	-	expression tag	UNP O66529
3C	31	MET	-	expression tag	UNP O66529
3C	39	ASN	ILE	conflict	UNP O66529
3C	42	VAL	GLU	conflict	UNP O66529
3C	58	VAL	ILE	conflict	UNP O66529
3C	59	SER	THR	conflict	UNP O66529
3C	61	ASP	GLY	conflict	UNP O66529
3C	62	ILE	VAL	conflict	UNP O66529
3C	97	TYR	PHE	conflict	UNP O66529
3C	102	GLY	-	expression tag	UNP O66529
3C	103	THR	-	expression tag	UNP O66529
3C	104	GLU	-	expression tag	UNP O66529
3C	105	HIS	-	expression tag	UNP O66529
3C	106	HIS	-	expression tag	UNP O66529
3C	107	HIS	-	expression tag	UNP O66529
3C	108	HIS	-	expression tag	UNP O66529
3C	109	LEU	-	expression tag	UNP O66529
3C	110	HIS	-	expression tag	UNP O66529
3C	111	GLY	-	expression tag	UNP O66529
3C	112	SER	-	expression tag	UNP O66529
3C	113	SER	-	expression tag	UNP O66529
3D	1	MET	-	initiating methionine	UNP O66529
3D	2	GLY	-	expression tag	UNP O66529
3D	3	ASN	-	expression tag	UNP O66529
3D	4	ALA	-	expression tag	UNP O66529
3D	5	ARG	-	expression tag	UNP O66529
3D	6	THR	-	expression tag	UNP O66529
3D	7	ARG	-	expression tag	UNP O66529
3D	8	ARG	-	expression tag	UNP O66529
3D	9	ARG	-	expression tag	UNP O66529
3D	10	GLU	-	expression tag	UNP O66529
3D	11	ARG	-	expression tag	UNP O66529
3D	12	ARG	-	expression tag	UNP O66529
3D	13	ALA	-	expression tag	UNP O66529
3D	14	GLU	-	expression tag	UNP O66529
3D	15	LYS	-	expression tag	UNP O66529
3D	16	GLN	-	expression tag	UNP O66529
3D	17	ALA	-	expression tag	UNP O66529
3D	18	GLN	-	expression tag	UNP O66529
3D	19	TRP	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
3D	20	LYS	-	expression tag	UNP O66529
3D	21	ALA	-	expression tag	UNP O66529
3D	22	ALA	-	expression tag	UNP O66529
3D	23	ASN	-	expression tag	UNP O66529
3D	24	ALA	-	expression tag	UNP O66529
3D	25	GLY	-	expression tag	UNP O66529
3D	26	ALA	-	expression tag	UNP O66529
3D	27	GLY	-	expression tag	UNP O66529
3D	28	ALA	-	expression tag	UNP O66529
3D	29	GLY	-	expression tag	UNP O66529
3D	30	ALA	-	expression tag	UNP O66529
3D	31	MET	-	expression tag	UNP O66529
3D	39	ASN	ILE	conflict	UNP O66529
3D	42	VAL	GLU	conflict	UNP O66529
3D	58	VAL	ILE	conflict	UNP O66529
3D	59	SER	THR	conflict	UNP O66529
3D	61	ASP	GLY	conflict	UNP O66529
3D	62	ILE	VAL	conflict	UNP O66529
3D	97	TYR	PHE	conflict	UNP O66529
3D	102	GLY	-	expression tag	UNP O66529
3D	103	THR	-	expression tag	UNP O66529
3D	104	GLU	-	expression tag	UNP O66529
3D	105	HIS	-	expression tag	UNP O66529
3D	106	HIS	-	expression tag	UNP O66529
3D	107	HIS	-	expression tag	UNP O66529
3D	108	HIS	-	expression tag	UNP O66529
3D	109	LEU	-	expression tag	UNP O66529
3D	110	HIS	-	expression tag	UNP O66529
3D	111	GLY	-	expression tag	UNP O66529
3D	112	SER	-	expression tag	UNP O66529
3D	113	SER	-	expression tag	UNP O66529
4A	1	MET	-	initiating methionine	UNP O66529
4A	2	GLY	-	expression tag	UNP O66529
4A	3	ASN	-	expression tag	UNP O66529
4A	4	ALA	-	expression tag	UNP O66529
4A	5	ARG	-	expression tag	UNP O66529
4A	6	THR	-	expression tag	UNP O66529
4A	7	ARG	-	expression tag	UNP O66529
4A	8	ARG	-	expression tag	UNP O66529
4A	9	ARG	-	expression tag	UNP O66529
4A	10	GLU	-	expression tag	UNP O66529
4A	11	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
4A	12	ARG	-	expression tag	UNP O66529
4A	13	ALA	-	expression tag	UNP O66529
4A	14	GLU	-	expression tag	UNP O66529
4A	15	LYS	-	expression tag	UNP O66529
4A	16	GLN	-	expression tag	UNP O66529
4A	17	ALA	-	expression tag	UNP O66529
4A	18	GLN	-	expression tag	UNP O66529
4A	19	TRP	-	expression tag	UNP O66529
4A	20	LYS	-	expression tag	UNP O66529
4A	21	ALA	-	expression tag	UNP O66529
4A	22	ALA	-	expression tag	UNP O66529
4A	23	ASN	-	expression tag	UNP O66529
4A	24	ALA	-	expression tag	UNP O66529
4A	25	GLY	-	expression tag	UNP O66529
4A	26	ALA	-	expression tag	UNP O66529
4A	27	GLY	-	expression tag	UNP O66529
4A	28	ALA	-	expression tag	UNP O66529
4A	29	GLY	-	expression tag	UNP O66529
4A	30	ALA	-	expression tag	UNP O66529
4A	31	MET	-	expression tag	UNP O66529
4A	39	ASN	ILE	conflict	UNP O66529
4A	42	VAL	GLU	conflict	UNP O66529
4A	58	VAL	ILE	conflict	UNP O66529
4A	59	SER	THR	conflict	UNP O66529
4A	61	ASP	GLY	conflict	UNP O66529
4A	62	ILE	VAL	conflict	UNP O66529
4A	97	TYR	PHE	conflict	UNP O66529
4A	102	GLY	-	expression tag	UNP O66529
4A	103	THR	-	expression tag	UNP O66529
4A	104	GLU	-	expression tag	UNP O66529
4A	105	HIS	-	expression tag	UNP O66529
4A	106	HIS	-	expression tag	UNP O66529
4A	107	HIS	-	expression tag	UNP O66529
4A	108	HIS	-	expression tag	UNP O66529
4A	109	LEU	-	expression tag	UNP O66529
4A	110	HIS	-	expression tag	UNP O66529
4A	111	GLY	-	expression tag	UNP O66529
4A	112	SER	-	expression tag	UNP O66529
4A	113	SER	-	expression tag	UNP O66529
4B	1	MET	-	initiating methionine	UNP O66529
4B	2	GLY	-	expression tag	UNP O66529
4B	3	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
4B	4	ALA	-	expression tag	UNP O66529
4B	5	ARG	-	expression tag	UNP O66529
4B	6	THR	-	expression tag	UNP O66529
4B	7	ARG	-	expression tag	UNP O66529
4B	8	ARG	-	expression tag	UNP O66529
4B	9	ARG	-	expression tag	UNP O66529
4B	10	GLU	-	expression tag	UNP O66529
4B	11	ARG	-	expression tag	UNP O66529
4B	12	ARG	-	expression tag	UNP O66529
4B	13	ALA	-	expression tag	UNP O66529
4B	14	GLU	-	expression tag	UNP O66529
4B	15	LYS	-	expression tag	UNP O66529
4B	16	GLN	-	expression tag	UNP O66529
4B	17	ALA	-	expression tag	UNP O66529
4B	18	GLN	-	expression tag	UNP O66529
4B	19	TRP	-	expression tag	UNP O66529
4B	20	LYS	-	expression tag	UNP O66529
4B	21	ALA	-	expression tag	UNP O66529
4B	22	ALA	-	expression tag	UNP O66529
4B	23	ASN	-	expression tag	UNP O66529
4B	24	ALA	-	expression tag	UNP O66529
4B	25	GLY	-	expression tag	UNP O66529
4B	26	ALA	-	expression tag	UNP O66529
4B	27	GLY	-	expression tag	UNP O66529
4B	28	ALA	-	expression tag	UNP O66529
4B	29	GLY	-	expression tag	UNP O66529
4B	30	ALA	-	expression tag	UNP O66529
4B	31	MET	-	expression tag	UNP O66529
4B	39	ASN	ILE	conflict	UNP O66529
4B	42	VAL	GLU	conflict	UNP O66529
4B	58	VAL	ILE	conflict	UNP O66529
4B	59	SER	THR	conflict	UNP O66529
4B	61	ASP	GLY	conflict	UNP O66529
4B	62	ILE	VAL	conflict	UNP O66529
4B	97	TYR	PHE	conflict	UNP O66529
4B	102	GLY	-	expression tag	UNP O66529
4B	103	THR	-	expression tag	UNP O66529
4B	104	GLU	-	expression tag	UNP O66529
4B	105	HIS	-	expression tag	UNP O66529
4B	106	HIS	-	expression tag	UNP O66529
4B	107	HIS	-	expression tag	UNP O66529
4B	108	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
4B	109	LEU	-	expression tag	UNP O66529
4B	110	HIS	-	expression tag	UNP O66529
4B	111	GLY	-	expression tag	UNP O66529
4B	112	SER	-	expression tag	UNP O66529
4B	113	SER	-	expression tag	UNP O66529
4C	1	MET	-	initiating methionine	UNP O66529
4C	2	GLY	-	expression tag	UNP O66529
4C	3	ASN	-	expression tag	UNP O66529
4C	4	ALA	-	expression tag	UNP O66529
4C	5	ARG	-	expression tag	UNP O66529
4C	6	THR	-	expression tag	UNP O66529
4C	7	ARG	-	expression tag	UNP O66529
4C	8	ARG	-	expression tag	UNP O66529
4C	9	ARG	-	expression tag	UNP O66529
4C	10	GLU	-	expression tag	UNP O66529
4C	11	ARG	-	expression tag	UNP O66529
4C	12	ARG	-	expression tag	UNP O66529
4C	13	ALA	-	expression tag	UNP O66529
4C	14	GLU	-	expression tag	UNP O66529
4C	15	LYS	-	expression tag	UNP O66529
4C	16	GLN	-	expression tag	UNP O66529
4C	17	ALA	-	expression tag	UNP O66529
4C	18	GLN	-	expression tag	UNP O66529
4C	19	TRP	-	expression tag	UNP O66529
4C	20	LYS	-	expression tag	UNP O66529
4C	21	ALA	-	expression tag	UNP O66529
4C	22	ALA	-	expression tag	UNP O66529
4C	23	ASN	-	expression tag	UNP O66529
4C	24	ALA	-	expression tag	UNP O66529
4C	25	GLY	-	expression tag	UNP O66529
4C	26	ALA	-	expression tag	UNP O66529
4C	27	GLY	-	expression tag	UNP O66529
4C	28	ALA	-	expression tag	UNP O66529
4C	29	GLY	-	expression tag	UNP O66529
4C	30	ALA	-	expression tag	UNP O66529
4C	31	MET	-	expression tag	UNP O66529
4C	39	ASN	ILE	conflict	UNP O66529
4C	42	VAL	GLU	conflict	UNP O66529
4C	58	VAL	ILE	conflict	UNP O66529
4C	59	SER	THR	conflict	UNP O66529
4C	61	ASP	GLY	conflict	UNP O66529
4C	62	ILE	VAL	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
4C	97	TYR	PHE	conflict	UNP O66529
4C	102	GLY	-	expression tag	UNP O66529
4C	103	THR	-	expression tag	UNP O66529
4C	104	GLU	-	expression tag	UNP O66529
4C	105	HIS	-	expression tag	UNP O66529
4C	106	HIS	-	expression tag	UNP O66529
4C	107	HIS	-	expression tag	UNP O66529
4C	108	HIS	-	expression tag	UNP O66529
4C	109	LEU	-	expression tag	UNP O66529
4C	110	HIS	-	expression tag	UNP O66529
4C	111	GLY	-	expression tag	UNP O66529
4C	112	SER	-	expression tag	UNP O66529
4C	113	SER	-	expression tag	UNP O66529
4D	1	MET	-	initiating methionine	UNP O66529
4D	2	GLY	-	expression tag	UNP O66529
4D	3	ASN	-	expression tag	UNP O66529
4D	4	ALA	-	expression tag	UNP O66529
4D	5	ARG	-	expression tag	UNP O66529
4D	6	THR	-	expression tag	UNP O66529
4D	7	ARG	-	expression tag	UNP O66529
4D	8	ARG	-	expression tag	UNP O66529
4D	9	ARG	-	expression tag	UNP O66529
4D	10	GLU	-	expression tag	UNP O66529
4D	11	ARG	-	expression tag	UNP O66529
4D	12	ARG	-	expression tag	UNP O66529
4D	13	ALA	-	expression tag	UNP O66529
4D	14	GLU	-	expression tag	UNP O66529
4D	15	LYS	-	expression tag	UNP O66529
4D	16	GLN	-	expression tag	UNP O66529
4D	17	ALA	-	expression tag	UNP O66529
4D	18	GLN	-	expression tag	UNP O66529
4D	19	TRP	-	expression tag	UNP O66529
4D	20	LYS	-	expression tag	UNP O66529
4D	21	ALA	-	expression tag	UNP O66529
4D	22	ALA	-	expression tag	UNP O66529
4D	23	ASN	-	expression tag	UNP O66529
4D	24	ALA	-	expression tag	UNP O66529
4D	25	GLY	-	expression tag	UNP O66529
4D	26	ALA	-	expression tag	UNP O66529
4D	27	GLY	-	expression tag	UNP O66529
4D	28	ALA	-	expression tag	UNP O66529
4D	29	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
4D	30	ALA	-	expression tag	UNP O66529
4D	31	MET	-	expression tag	UNP O66529
4D	39	ASN	ILE	conflict	UNP O66529
4D	42	VAL	GLU	conflict	UNP O66529
4D	58	VAL	ILE	conflict	UNP O66529
4D	59	SER	THR	conflict	UNP O66529
4D	61	ASP	GLY	conflict	UNP O66529
4D	62	ILE	VAL	conflict	UNP O66529
4D	97	TYR	PHE	conflict	UNP O66529
4D	102	GLY	-	expression tag	UNP O66529
4D	103	THR	-	expression tag	UNP O66529
4D	104	GLU	-	expression tag	UNP O66529
4D	105	HIS	-	expression tag	UNP O66529
4D	106	HIS	-	expression tag	UNP O66529
4D	107	HIS	-	expression tag	UNP O66529
4D	108	HIS	-	expression tag	UNP O66529
4D	109	LEU	-	expression tag	UNP O66529
4D	110	HIS	-	expression tag	UNP O66529
4D	111	GLY	-	expression tag	UNP O66529
4D	112	SER	-	expression tag	UNP O66529
4D	113	SER	-	expression tag	UNP O66529
5A	1	MET	-	initiating methionine	UNP O66529
5A	2	GLY	-	expression tag	UNP O66529
5A	3	ASN	-	expression tag	UNP O66529
5A	4	ALA	-	expression tag	UNP O66529
5A	5	ARG	-	expression tag	UNP O66529
5A	6	THR	-	expression tag	UNP O66529
5A	7	ARG	-	expression tag	UNP O66529
5A	8	ARG	-	expression tag	UNP O66529
5A	9	ARG	-	expression tag	UNP O66529
5A	10	GLU	-	expression tag	UNP O66529
5A	11	ARG	-	expression tag	UNP O66529
5A	12	ARG	-	expression tag	UNP O66529
5A	13	ALA	-	expression tag	UNP O66529
5A	14	GLU	-	expression tag	UNP O66529
5A	15	LYS	-	expression tag	UNP O66529
5A	16	GLN	-	expression tag	UNP O66529
5A	17	ALA	-	expression tag	UNP O66529
5A	18	GLN	-	expression tag	UNP O66529
5A	19	TRP	-	expression tag	UNP O66529
5A	20	LYS	-	expression tag	UNP O66529
5A	21	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
5A	22	ALA	-	expression tag	UNP O66529
5A	23	ASN	-	expression tag	UNP O66529
5A	24	ALA	-	expression tag	UNP O66529
5A	25	GLY	-	expression tag	UNP O66529
5A	26	ALA	-	expression tag	UNP O66529
5A	27	GLY	-	expression tag	UNP O66529
5A	28	ALA	-	expression tag	UNP O66529
5A	29	GLY	-	expression tag	UNP O66529
5A	30	ALA	-	expression tag	UNP O66529
5A	31	MET	-	expression tag	UNP O66529
5A	39	ASN	ILE	conflict	UNP O66529
5A	42	VAL	GLU	conflict	UNP O66529
5A	58	VAL	ILE	conflict	UNP O66529
5A	59	SER	THR	conflict	UNP O66529
5A	61	ASP	GLY	conflict	UNP O66529
5A	62	ILE	VAL	conflict	UNP O66529
5A	97	TYR	PHE	conflict	UNP O66529
5A	102	GLY	-	expression tag	UNP O66529
5A	103	THR	-	expression tag	UNP O66529
5A	104	GLU	-	expression tag	UNP O66529
5A	105	HIS	-	expression tag	UNP O66529
5A	106	HIS	-	expression tag	UNP O66529
5A	107	HIS	-	expression tag	UNP O66529
5A	108	HIS	-	expression tag	UNP O66529
5A	109	LEU	-	expression tag	UNP O66529
5A	110	HIS	-	expression tag	UNP O66529
5A	111	GLY	-	expression tag	UNP O66529
5A	112	SER	-	expression tag	UNP O66529
5A	113	SER	-	expression tag	UNP O66529
5B	1	MET	-	initiating methionine	UNP O66529
5B	2	GLY	-	expression tag	UNP O66529
5B	3	ASN	-	expression tag	UNP O66529
5B	4	ALA	-	expression tag	UNP O66529
5B	5	ARG	-	expression tag	UNP O66529
5B	6	THR	-	expression tag	UNP O66529
5B	7	ARG	-	expression tag	UNP O66529
5B	8	ARG	-	expression tag	UNP O66529
5B	9	ARG	-	expression tag	UNP O66529
5B	10	GLU	-	expression tag	UNP O66529
5B	11	ARG	-	expression tag	UNP O66529
5B	12	ARG	-	expression tag	UNP O66529
5B	13	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
5B	14	GLU	-	expression tag	UNP O66529
5B	15	LYS	-	expression tag	UNP O66529
5B	16	GLN	-	expression tag	UNP O66529
5B	17	ALA	-	expression tag	UNP O66529
5B	18	GLN	-	expression tag	UNP O66529
5B	19	TRP	-	expression tag	UNP O66529
5B	20	LYS	-	expression tag	UNP O66529
5B	21	ALA	-	expression tag	UNP O66529
5B	22	ALA	-	expression tag	UNP O66529
5B	23	ASN	-	expression tag	UNP O66529
5B	24	ALA	-	expression tag	UNP O66529
5B	25	GLY	-	expression tag	UNP O66529
5B	26	ALA	-	expression tag	UNP O66529
5B	27	GLY	-	expression tag	UNP O66529
5B	28	ALA	-	expression tag	UNP O66529
5B	29	GLY	-	expression tag	UNP O66529
5B	30	ALA	-	expression tag	UNP O66529
5B	31	MET	-	expression tag	UNP O66529
5B	39	ASN	ILE	conflict	UNP O66529
5B	42	VAL	GLU	conflict	UNP O66529
5B	58	VAL	ILE	conflict	UNP O66529
5B	59	SER	THR	conflict	UNP O66529
5B	61	ASP	GLY	conflict	UNP O66529
5B	62	ILE	VAL	conflict	UNP O66529
5B	97	TYR	PHE	conflict	UNP O66529
5B	102	GLY	-	expression tag	UNP O66529
5B	103	THR	-	expression tag	UNP O66529
5B	104	GLU	-	expression tag	UNP O66529
5B	105	HIS	-	expression tag	UNP O66529
5B	106	HIS	-	expression tag	UNP O66529
5B	107	HIS	-	expression tag	UNP O66529
5B	108	HIS	-	expression tag	UNP O66529
5B	109	LEU	-	expression tag	UNP O66529
5B	110	HIS	-	expression tag	UNP O66529
5B	111	GLY	-	expression tag	UNP O66529
5B	112	SER	-	expression tag	UNP O66529
5B	113	SER	-	expression tag	UNP O66529
5C	1	MET	-	initiating methionine	UNP O66529
5C	2	GLY	-	expression tag	UNP O66529
5C	3	ASN	-	expression tag	UNP O66529
5C	4	ALA	-	expression tag	UNP O66529
5C	5	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
5C	6	THR	-	expression tag	UNP O66529
5C	7	ARG	-	expression tag	UNP O66529
5C	8	ARG	-	expression tag	UNP O66529
5C	9	ARG	-	expression tag	UNP O66529
5C	10	GLU	-	expression tag	UNP O66529
5C	11	ARG	-	expression tag	UNP O66529
5C	12	ARG	-	expression tag	UNP O66529
5C	13	ALA	-	expression tag	UNP O66529
5C	14	GLU	-	expression tag	UNP O66529
5C	15	LYS	-	expression tag	UNP O66529
5C	16	GLN	-	expression tag	UNP O66529
5C	17	ALA	-	expression tag	UNP O66529
5C	18	GLN	-	expression tag	UNP O66529
5C	19	TRP	-	expression tag	UNP O66529
5C	20	LYS	-	expression tag	UNP O66529
5C	21	ALA	-	expression tag	UNP O66529
5C	22	ALA	-	expression tag	UNP O66529
5C	23	ASN	-	expression tag	UNP O66529
5C	24	ALA	-	expression tag	UNP O66529
5C	25	GLY	-	expression tag	UNP O66529
5C	26	ALA	-	expression tag	UNP O66529
5C	27	GLY	-	expression tag	UNP O66529
5C	28	ALA	-	expression tag	UNP O66529
5C	29	GLY	-	expression tag	UNP O66529
5C	30	ALA	-	expression tag	UNP O66529
5C	31	MET	-	expression tag	UNP O66529
5C	39	ASN	ILE	conflict	UNP O66529
5C	42	VAL	GLU	conflict	UNP O66529
5C	58	VAL	ILE	conflict	UNP O66529
5C	59	SER	THR	conflict	UNP O66529
5C	61	ASP	GLY	conflict	UNP O66529
5C	62	ILE	VAL	conflict	UNP O66529
5C	97	TYR	PHE	conflict	UNP O66529
5C	102	GLY	-	expression tag	UNP O66529
5C	103	THR	-	expression tag	UNP O66529
5C	104	GLU	-	expression tag	UNP O66529
5C	105	HIS	-	expression tag	UNP O66529
5C	106	HIS	-	expression tag	UNP O66529
5C	107	HIS	-	expression tag	UNP O66529
5C	108	HIS	-	expression tag	UNP O66529
5C	109	LEU	-	expression tag	UNP O66529
5C	110	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
5C	111	GLY	-	expression tag	UNP O66529
5C	112	SER	-	expression tag	UNP O66529
5C	113	SER	-	expression tag	UNP O66529
5D	1	MET	-	initiating methionine	UNP O66529
5D	2	GLY	-	expression tag	UNP O66529
5D	3	ASN	-	expression tag	UNP O66529
5D	4	ALA	-	expression tag	UNP O66529
5D	5	ARG	-	expression tag	UNP O66529
5D	6	THR	-	expression tag	UNP O66529
5D	7	ARG	-	expression tag	UNP O66529
5D	8	ARG	-	expression tag	UNP O66529
5D	9	ARG	-	expression tag	UNP O66529
5D	10	GLU	-	expression tag	UNP O66529
5D	11	ARG	-	expression tag	UNP O66529
5D	12	ARG	-	expression tag	UNP O66529
5D	13	ALA	-	expression tag	UNP O66529
5D	14	GLU	-	expression tag	UNP O66529
5D	15	LYS	-	expression tag	UNP O66529
5D	16	GLN	-	expression tag	UNP O66529
5D	17	ALA	-	expression tag	UNP O66529
5D	18	GLN	-	expression tag	UNP O66529
5D	19	TRP	-	expression tag	UNP O66529
5D	20	LYS	-	expression tag	UNP O66529
5D	21	ALA	-	expression tag	UNP O66529
5D	22	ALA	-	expression tag	UNP O66529
5D	23	ASN	-	expression tag	UNP O66529
5D	24	ALA	-	expression tag	UNP O66529
5D	25	GLY	-	expression tag	UNP O66529
5D	26	ALA	-	expression tag	UNP O66529
5D	27	GLY	-	expression tag	UNP O66529
5D	28	ALA	-	expression tag	UNP O66529
5D	29	GLY	-	expression tag	UNP O66529
5D	30	ALA	-	expression tag	UNP O66529
5D	31	MET	-	expression tag	UNP O66529
5D	39	ASN	ILE	conflict	UNP O66529
5D	42	VAL	GLU	conflict	UNP O66529
5D	58	VAL	ILE	conflict	UNP O66529
5D	59	SER	THR	conflict	UNP O66529
5D	61	ASP	GLY	conflict	UNP O66529
5D	62	ILE	VAL	conflict	UNP O66529
5D	97	TYR	PHE	conflict	UNP O66529
5D	102	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
5D	103	THR	-	expression tag	UNP O66529
5D	104	GLU	-	expression tag	UNP O66529
5D	105	HIS	-	expression tag	UNP O66529
5D	106	HIS	-	expression tag	UNP O66529
5D	107	HIS	-	expression tag	UNP O66529
5D	108	HIS	-	expression tag	UNP O66529
5D	109	LEU	-	expression tag	UNP O66529
5D	110	HIS	-	expression tag	UNP O66529
5D	111	GLY	-	expression tag	UNP O66529
5D	112	SER	-	expression tag	UNP O66529
5D	113	SER	-	expression tag	UNP O66529
6A	1	MET	-	initiating methionine	UNP O66529
6A	2	GLY	-	expression tag	UNP O66529
6A	3	ASN	-	expression tag	UNP O66529
6A	4	ALA	-	expression tag	UNP O66529
6A	5	ARG	-	expression tag	UNP O66529
6A	6	THR	-	expression tag	UNP O66529
6A	7	ARG	-	expression tag	UNP O66529
6A	8	ARG	-	expression tag	UNP O66529
6A	9	ARG	-	expression tag	UNP O66529
6A	10	GLU	-	expression tag	UNP O66529
6A	11	ARG	-	expression tag	UNP O66529
6A	12	ARG	-	expression tag	UNP O66529
6A	13	ALA	-	expression tag	UNP O66529
6A	14	GLU	-	expression tag	UNP O66529
6A	15	LYS	-	expression tag	UNP O66529
6A	16	GLN	-	expression tag	UNP O66529
6A	17	ALA	-	expression tag	UNP O66529
6A	18	GLN	-	expression tag	UNP O66529
6A	19	TRP	-	expression tag	UNP O66529
6A	20	LYS	-	expression tag	UNP O66529
6A	21	ALA	-	expression tag	UNP O66529
6A	22	ALA	-	expression tag	UNP O66529
6A	23	ASN	-	expression tag	UNP O66529
6A	24	ALA	-	expression tag	UNP O66529
6A	25	GLY	-	expression tag	UNP O66529
6A	26	ALA	-	expression tag	UNP O66529
6A	27	GLY	-	expression tag	UNP O66529
6A	28	ALA	-	expression tag	UNP O66529
6A	29	GLY	-	expression tag	UNP O66529
6A	30	ALA	-	expression tag	UNP O66529
6A	31	MET	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
6A	39	ASN	ILE	conflict	UNP O66529
6A	42	VAL	GLU	conflict	UNP O66529
6A	58	VAL	ILE	conflict	UNP O66529
6A	59	SER	THR	conflict	UNP O66529
6A	61	ASP	GLY	conflict	UNP O66529
6A	62	ILE	VAL	conflict	UNP O66529
6A	97	TYR	PHE	conflict	UNP O66529
6A	102	GLY	-	expression tag	UNP O66529
6A	103	THR	-	expression tag	UNP O66529
6A	104	GLU	-	expression tag	UNP O66529
6A	105	HIS	-	expression tag	UNP O66529
6A	106	HIS	-	expression tag	UNP O66529
6A	107	HIS	-	expression tag	UNP O66529
6A	108	HIS	-	expression tag	UNP O66529
6A	109	LEU	-	expression tag	UNP O66529
6A	110	HIS	-	expression tag	UNP O66529
6A	111	GLY	-	expression tag	UNP O66529
6A	112	SER	-	expression tag	UNP O66529
6A	113	SER	-	expression tag	UNP O66529
6B	1	MET	-	initiating methionine	UNP O66529
6B	2	GLY	-	expression tag	UNP O66529
6B	3	ASN	-	expression tag	UNP O66529
6B	4	ALA	-	expression tag	UNP O66529
6B	5	ARG	-	expression tag	UNP O66529
6B	6	THR	-	expression tag	UNP O66529
6B	7	ARG	-	expression tag	UNP O66529
6B	8	ARG	-	expression tag	UNP O66529
6B	9	ARG	-	expression tag	UNP O66529
6B	10	GLU	-	expression tag	UNP O66529
6B	11	ARG	-	expression tag	UNP O66529
6B	12	ARG	-	expression tag	UNP O66529
6B	13	ALA	-	expression tag	UNP O66529
6B	14	GLU	-	expression tag	UNP O66529
6B	15	LYS	-	expression tag	UNP O66529
6B	16	GLN	-	expression tag	UNP O66529
6B	17	ALA	-	expression tag	UNP O66529
6B	18	GLN	-	expression tag	UNP O66529
6B	19	TRP	-	expression tag	UNP O66529
6B	20	LYS	-	expression tag	UNP O66529
6B	21	ALA	-	expression tag	UNP O66529
6B	22	ALA	-	expression tag	UNP O66529
6B	23	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
6B	24	ALA	-	expression tag	UNP O66529
6B	25	GLY	-	expression tag	UNP O66529
6B	26	ALA	-	expression tag	UNP O66529
6B	27	GLY	-	expression tag	UNP O66529
6B	28	ALA	-	expression tag	UNP O66529
6B	29	GLY	-	expression tag	UNP O66529
6B	30	ALA	-	expression tag	UNP O66529
6B	31	MET	-	expression tag	UNP O66529
6B	39	ASN	ILE	conflict	UNP O66529
6B	42	VAL	GLU	conflict	UNP O66529
6B	58	VAL	ILE	conflict	UNP O66529
6B	59	SER	THR	conflict	UNP O66529
6B	61	ASP	GLY	conflict	UNP O66529
6B	62	ILE	VAL	conflict	UNP O66529
6B	97	TYR	PHE	conflict	UNP O66529
6B	102	GLY	-	expression tag	UNP O66529
6B	103	THR	-	expression tag	UNP O66529
6B	104	GLU	-	expression tag	UNP O66529
6B	105	HIS	-	expression tag	UNP O66529
6B	106	HIS	-	expression tag	UNP O66529
6B	107	HIS	-	expression tag	UNP O66529
6B	108	HIS	-	expression tag	UNP O66529
6B	109	LEU	-	expression tag	UNP O66529
6B	110	HIS	-	expression tag	UNP O66529
6B	111	GLY	-	expression tag	UNP O66529
6B	112	SER	-	expression tag	UNP O66529
6B	113	SER	-	expression tag	UNP O66529
6C	1	MET	-	initiating methionine	UNP O66529
6C	2	GLY	-	expression tag	UNP O66529
6C	3	ASN	-	expression tag	UNP O66529
6C	4	ALA	-	expression tag	UNP O66529
6C	5	ARG	-	expression tag	UNP O66529
6C	6	THR	-	expression tag	UNP O66529
6C	7	ARG	-	expression tag	UNP O66529
6C	8	ARG	-	expression tag	UNP O66529
6C	9	ARG	-	expression tag	UNP O66529
6C	10	GLU	-	expression tag	UNP O66529
6C	11	ARG	-	expression tag	UNP O66529
6C	12	ARG	-	expression tag	UNP O66529
6C	13	ALA	-	expression tag	UNP O66529
6C	14	GLU	-	expression tag	UNP O66529
6C	15	LYS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
6C	16	GLN	-	expression tag	UNP O66529
6C	17	ALA	-	expression tag	UNP O66529
6C	18	GLN	-	expression tag	UNP O66529
6C	19	TRP	-	expression tag	UNP O66529
6C	20	LYS	-	expression tag	UNP O66529
6C	21	ALA	-	expression tag	UNP O66529
6C	22	ALA	-	expression tag	UNP O66529
6C	23	ASN	-	expression tag	UNP O66529
6C	24	ALA	-	expression tag	UNP O66529
6C	25	GLY	-	expression tag	UNP O66529
6C	26	ALA	-	expression tag	UNP O66529
6C	27	GLY	-	expression tag	UNP O66529
6C	28	ALA	-	expression tag	UNP O66529
6C	29	GLY	-	expression tag	UNP O66529
6C	30	ALA	-	expression tag	UNP O66529
6C	31	MET	-	expression tag	UNP O66529
6C	39	ASN	ILE	conflict	UNP O66529
6C	42	VAL	GLU	conflict	UNP O66529
6C	58	VAL	ILE	conflict	UNP O66529
6C	59	SER	THR	conflict	UNP O66529
6C	61	ASP	GLY	conflict	UNP O66529
6C	62	ILE	VAL	conflict	UNP O66529
6C	97	TYR	PHE	conflict	UNP O66529
6C	102	GLY	-	expression tag	UNP O66529
6C	103	THR	-	expression tag	UNP O66529
6C	104	GLU	-	expression tag	UNP O66529
6C	105	HIS	-	expression tag	UNP O66529
6C	106	HIS	-	expression tag	UNP O66529
6C	107	HIS	-	expression tag	UNP O66529
6C	108	HIS	-	expression tag	UNP O66529
6C	109	LEU	-	expression tag	UNP O66529
6C	110	HIS	-	expression tag	UNP O66529
6C	111	GLY	-	expression tag	UNP O66529
6C	112	SER	-	expression tag	UNP O66529
6C	113	SER	-	expression tag	UNP O66529
6D	1	MET	-	initiating methionine	UNP O66529
6D	2	GLY	-	expression tag	UNP O66529
6D	3	ASN	-	expression tag	UNP O66529
6D	4	ALA	-	expression tag	UNP O66529
6D	5	ARG	-	expression tag	UNP O66529
6D	6	THR	-	expression tag	UNP O66529
6D	7	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
6D	8	ARG	-	expression tag	UNP O66529
6D	9	ARG	-	expression tag	UNP O66529
6D	10	GLU	-	expression tag	UNP O66529
6D	11	ARG	-	expression tag	UNP O66529
6D	12	ARG	-	expression tag	UNP O66529
6D	13	ALA	-	expression tag	UNP O66529
6D	14	GLU	-	expression tag	UNP O66529
6D	15	LYS	-	expression tag	UNP O66529
6D	16	GLN	-	expression tag	UNP O66529
6D	17	ALA	-	expression tag	UNP O66529
6D	18	GLN	-	expression tag	UNP O66529
6D	19	TRP	-	expression tag	UNP O66529
6D	20	LYS	-	expression tag	UNP O66529
6D	21	ALA	-	expression tag	UNP O66529
6D	22	ALA	-	expression tag	UNP O66529
6D	23	ASN	-	expression tag	UNP O66529
6D	24	ALA	-	expression tag	UNP O66529
6D	25	GLY	-	expression tag	UNP O66529
6D	26	ALA	-	expression tag	UNP O66529
6D	27	GLY	-	expression tag	UNP O66529
6D	28	ALA	-	expression tag	UNP O66529
6D	29	GLY	-	expression tag	UNP O66529
6D	30	ALA	-	expression tag	UNP O66529
6D	31	MET	-	expression tag	UNP O66529
6D	39	ASN	ILE	conflict	UNP O66529
6D	42	VAL	GLU	conflict	UNP O66529
6D	58	VAL	ILE	conflict	UNP O66529
6D	59	SER	THR	conflict	UNP O66529
6D	61	ASP	GLY	conflict	UNP O66529
6D	62	ILE	VAL	conflict	UNP O66529
6D	97	TYR	PHE	conflict	UNP O66529
6D	102	GLY	-	expression tag	UNP O66529
6D	103	THR	-	expression tag	UNP O66529
6D	104	GLU	-	expression tag	UNP O66529
6D	105	HIS	-	expression tag	UNP O66529
6D	106	HIS	-	expression tag	UNP O66529
6D	107	HIS	-	expression tag	UNP O66529
6D	108	HIS	-	expression tag	UNP O66529
6D	109	LEU	-	expression tag	UNP O66529
6D	110	HIS	-	expression tag	UNP O66529
6D	111	GLY	-	expression tag	UNP O66529
6D	112	SER	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
6D	113	SER	-	expression tag	UNP O66529
7A	1	MET	-	initiating methionine	UNP O66529
7A	2	GLY	-	expression tag	UNP O66529
7A	3	ASN	-	expression tag	UNP O66529
7A	4	ALA	-	expression tag	UNP O66529
7A	5	ARG	-	expression tag	UNP O66529
7A	6	THR	-	expression tag	UNP O66529
7A	7	ARG	-	expression tag	UNP O66529
7A	8	ARG	-	expression tag	UNP O66529
7A	9	ARG	-	expression tag	UNP O66529
7A	10	GLU	-	expression tag	UNP O66529
7A	11	ARG	-	expression tag	UNP O66529
7A	12	ARG	-	expression tag	UNP O66529
7A	13	ALA	-	expression tag	UNP O66529
7A	14	GLU	-	expression tag	UNP O66529
7A	15	LYS	-	expression tag	UNP O66529
7A	16	GLN	-	expression tag	UNP O66529
7A	17	ALA	-	expression tag	UNP O66529
7A	18	GLN	-	expression tag	UNP O66529
7A	19	TRP	-	expression tag	UNP O66529
7A	20	LYS	-	expression tag	UNP O66529
7A	21	ALA	-	expression tag	UNP O66529
7A	22	ALA	-	expression tag	UNP O66529
7A	23	ASN	-	expression tag	UNP O66529
7A	24	ALA	-	expression tag	UNP O66529
7A	25	GLY	-	expression tag	UNP O66529
7A	26	ALA	-	expression tag	UNP O66529
7A	27	GLY	-	expression tag	UNP O66529
7A	28	ALA	-	expression tag	UNP O66529
7A	29	GLY	-	expression tag	UNP O66529
7A	30	ALA	-	expression tag	UNP O66529
7A	31	MET	-	expression tag	UNP O66529
7A	39	ASN	ILE	conflict	UNP O66529
7A	42	VAL	GLU	conflict	UNP O66529
7A	58	VAL	ILE	conflict	UNP O66529
7A	59	SER	THR	conflict	UNP O66529
7A	61	ASP	GLY	conflict	UNP O66529
7A	62	ILE	VAL	conflict	UNP O66529
7A	97	TYR	PHE	conflict	UNP O66529
7A	102	GLY	-	expression tag	UNP O66529
7A	103	THR	-	expression tag	UNP O66529
7A	104	GLU	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
7A	105	HIS	-	expression tag	UNP O66529
7A	106	HIS	-	expression tag	UNP O66529
7A	107	HIS	-	expression tag	UNP O66529
7A	108	HIS	-	expression tag	UNP O66529
7A	109	LEU	-	expression tag	UNP O66529
7A	110	HIS	-	expression tag	UNP O66529
7A	111	GLY	-	expression tag	UNP O66529
7A	112	SER	-	expression tag	UNP O66529
7A	113	SER	-	expression tag	UNP O66529
7B	1	MET	-	initiating methionine	UNP O66529
7B	2	GLY	-	expression tag	UNP O66529
7B	3	ASN	-	expression tag	UNP O66529
7B	4	ALA	-	expression tag	UNP O66529
7B	5	ARG	-	expression tag	UNP O66529
7B	6	THR	-	expression tag	UNP O66529
7B	7	ARG	-	expression tag	UNP O66529
7B	8	ARG	-	expression tag	UNP O66529
7B	9	ARG	-	expression tag	UNP O66529
7B	10	GLU	-	expression tag	UNP O66529
7B	11	ARG	-	expression tag	UNP O66529
7B	12	ARG	-	expression tag	UNP O66529
7B	13	ALA	-	expression tag	UNP O66529
7B	14	GLU	-	expression tag	UNP O66529
7B	15	LYS	-	expression tag	UNP O66529
7B	16	GLN	-	expression tag	UNP O66529
7B	17	ALA	-	expression tag	UNP O66529
7B	18	GLN	-	expression tag	UNP O66529
7B	19	TRP	-	expression tag	UNP O66529
7B	20	LYS	-	expression tag	UNP O66529
7B	21	ALA	-	expression tag	UNP O66529
7B	22	ALA	-	expression tag	UNP O66529
7B	23	ASN	-	expression tag	UNP O66529
7B	24	ALA	-	expression tag	UNP O66529
7B	25	GLY	-	expression tag	UNP O66529
7B	26	ALA	-	expression tag	UNP O66529
7B	27	GLY	-	expression tag	UNP O66529
7B	28	ALA	-	expression tag	UNP O66529
7B	29	GLY	-	expression tag	UNP O66529
7B	30	ALA	-	expression tag	UNP O66529
7B	31	MET	-	expression tag	UNP O66529
7B	39	ASN	ILE	conflict	UNP O66529
7B	42	VAL	GLU	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
7B	58	VAL	ILE	conflict	UNP O66529
7B	59	SER	THR	conflict	UNP O66529
7B	61	ASP	GLY	conflict	UNP O66529
7B	62	ILE	VAL	conflict	UNP O66529
7B	97	TYR	PHE	conflict	UNP O66529
7B	102	GLY	-	expression tag	UNP O66529
7B	103	THR	-	expression tag	UNP O66529
7B	104	GLU	-	expression tag	UNP O66529
7B	105	HIS	-	expression tag	UNP O66529
7B	106	HIS	-	expression tag	UNP O66529
7B	107	HIS	-	expression tag	UNP O66529
7B	108	HIS	-	expression tag	UNP O66529
7B	109	LEU	-	expression tag	UNP O66529
7B	110	HIS	-	expression tag	UNP O66529
7B	111	GLY	-	expression tag	UNP O66529
7B	112	SER	-	expression tag	UNP O66529
7B	113	SER	-	expression tag	UNP O66529
7C	1	MET	-	initiating methionine	UNP O66529
7C	2	GLY	-	expression tag	UNP O66529
7C	3	ASN	-	expression tag	UNP O66529
7C	4	ALA	-	expression tag	UNP O66529
7C	5	ARG	-	expression tag	UNP O66529
7C	6	THR	-	expression tag	UNP O66529
7C	7	ARG	-	expression tag	UNP O66529
7C	8	ARG	-	expression tag	UNP O66529
7C	9	ARG	-	expression tag	UNP O66529
7C	10	GLU	-	expression tag	UNP O66529
7C	11	ARG	-	expression tag	UNP O66529
7C	12	ARG	-	expression tag	UNP O66529
7C	13	ALA	-	expression tag	UNP O66529
7C	14	GLU	-	expression tag	UNP O66529
7C	15	LYS	-	expression tag	UNP O66529
7C	16	GLN	-	expression tag	UNP O66529
7C	17	ALA	-	expression tag	UNP O66529
7C	18	GLN	-	expression tag	UNP O66529
7C	19	TRP	-	expression tag	UNP O66529
7C	20	LYS	-	expression tag	UNP O66529
7C	21	ALA	-	expression tag	UNP O66529
7C	22	ALA	-	expression tag	UNP O66529
7C	23	ASN	-	expression tag	UNP O66529
7C	24	ALA	-	expression tag	UNP O66529
7C	25	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
7C	26	ALA	-	expression tag	UNP O66529
7C	27	GLY	-	expression tag	UNP O66529
7C	28	ALA	-	expression tag	UNP O66529
7C	29	GLY	-	expression tag	UNP O66529
7C	30	ALA	-	expression tag	UNP O66529
7C	31	MET	-	expression tag	UNP O66529
7C	39	ASN	ILE	conflict	UNP O66529
7C	42	VAL	GLU	conflict	UNP O66529
7C	58	VAL	ILE	conflict	UNP O66529
7C	59	SER	THR	conflict	UNP O66529
7C	61	ASP	GLY	conflict	UNP O66529
7C	62	ILE	VAL	conflict	UNP O66529
7C	97	TYR	PHE	conflict	UNP O66529
7C	102	GLY	-	expression tag	UNP O66529
7C	103	THR	-	expression tag	UNP O66529
7C	104	GLU	-	expression tag	UNP O66529
7C	105	HIS	-	expression tag	UNP O66529
7C	106	HIS	-	expression tag	UNP O66529
7C	107	HIS	-	expression tag	UNP O66529
7C	108	HIS	-	expression tag	UNP O66529
7C	109	LEU	-	expression tag	UNP O66529
7C	110	HIS	-	expression tag	UNP O66529
7C	111	GLY	-	expression tag	UNP O66529
7C	112	SER	-	expression tag	UNP O66529
7C	113	SER	-	expression tag	UNP O66529
7D	1	MET	-	initiating methionine	UNP O66529
7D	2	GLY	-	expression tag	UNP O66529
7D	3	ASN	-	expression tag	UNP O66529
7D	4	ALA	-	expression tag	UNP O66529
7D	5	ARG	-	expression tag	UNP O66529
7D	6	THR	-	expression tag	UNP O66529
7D	7	ARG	-	expression tag	UNP O66529
7D	8	ARG	-	expression tag	UNP O66529
7D	9	ARG	-	expression tag	UNP O66529
7D	10	GLU	-	expression tag	UNP O66529
7D	11	ARG	-	expression tag	UNP O66529
7D	12	ARG	-	expression tag	UNP O66529
7D	13	ALA	-	expression tag	UNP O66529
7D	14	GLU	-	expression tag	UNP O66529
7D	15	LYS	-	expression tag	UNP O66529
7D	16	GLN	-	expression tag	UNP O66529
7D	17	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
7D	18	GLN	-	expression tag	UNP O66529
7D	19	TRP	-	expression tag	UNP O66529
7D	20	LYS	-	expression tag	UNP O66529
7D	21	ALA	-	expression tag	UNP O66529
7D	22	ALA	-	expression tag	UNP O66529
7D	23	ASN	-	expression tag	UNP O66529
7D	24	ALA	-	expression tag	UNP O66529
7D	25	GLY	-	expression tag	UNP O66529
7D	26	ALA	-	expression tag	UNP O66529
7D	27	GLY	-	expression tag	UNP O66529
7D	28	ALA	-	expression tag	UNP O66529
7D	29	GLY	-	expression tag	UNP O66529
7D	30	ALA	-	expression tag	UNP O66529
7D	31	MET	-	expression tag	UNP O66529
7D	39	ASN	ILE	conflict	UNP O66529
7D	42	VAL	GLU	conflict	UNP O66529
7D	58	VAL	ILE	conflict	UNP O66529
7D	59	SER	THR	conflict	UNP O66529
7D	61	ASP	GLY	conflict	UNP O66529
7D	62	ILE	VAL	conflict	UNP O66529
7D	97	TYR	PHE	conflict	UNP O66529
7D	102	GLY	-	expression tag	UNP O66529
7D	103	THR	-	expression tag	UNP O66529
7D	104	GLU	-	expression tag	UNP O66529
7D	105	HIS	-	expression tag	UNP O66529
7D	106	HIS	-	expression tag	UNP O66529
7D	107	HIS	-	expression tag	UNP O66529
7D	108	HIS	-	expression tag	UNP O66529
7D	109	LEU	-	expression tag	UNP O66529
7D	110	HIS	-	expression tag	UNP O66529
7D	111	GLY	-	expression tag	UNP O66529
7D	112	SER	-	expression tag	UNP O66529
7D	113	SER	-	expression tag	UNP O66529
AA	1	MET	-	initiating methionine	UNP O66529
AA	2	GLY	-	expression tag	UNP O66529
AA	3	ASN	-	expression tag	UNP O66529
AA	4	ALA	-	expression tag	UNP O66529
AA	5	ARG	-	expression tag	UNP O66529
AA	6	THR	-	expression tag	UNP O66529
AA	7	ARG	-	expression tag	UNP O66529
AA	8	ARG	-	expression tag	UNP O66529
AA	9	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
AA	10	GLU	-	expression tag	UNP O66529
AA	11	ARG	-	expression tag	UNP O66529
AA	12	ARG	-	expression tag	UNP O66529
AA	13	ALA	-	expression tag	UNP O66529
AA	14	GLU	-	expression tag	UNP O66529
AA	15	LYS	-	expression tag	UNP O66529
AA	16	GLN	-	expression tag	UNP O66529
AA	17	ALA	-	expression tag	UNP O66529
AA	18	GLN	-	expression tag	UNP O66529
AA	19	TRP	-	expression tag	UNP O66529
AA	20	LYS	-	expression tag	UNP O66529
AA	21	ALA	-	expression tag	UNP O66529
AA	22	ALA	-	expression tag	UNP O66529
AA	23	ASN	-	expression tag	UNP O66529
AA	24	ALA	-	expression tag	UNP O66529
AA	25	GLY	-	expression tag	UNP O66529
AA	26	ALA	-	expression tag	UNP O66529
AA	27	GLY	-	expression tag	UNP O66529
AA	28	ALA	-	expression tag	UNP O66529
AA	29	GLY	-	expression tag	UNP O66529
AA	30	ALA	-	expression tag	UNP O66529
AA	31	MET	-	expression tag	UNP O66529
AA	39	ASN	ILE	conflict	UNP O66529
AA	42	VAL	GLU	conflict	UNP O66529
AA	58	VAL	ILE	conflict	UNP O66529
AA	59	SER	THR	conflict	UNP O66529
AA	61	ASP	GLY	conflict	UNP O66529
AA	62	ILE	VAL	conflict	UNP O66529
AA	97	TYR	PHE	conflict	UNP O66529
AA	102	GLY	-	expression tag	UNP O66529
AA	103	THR	-	expression tag	UNP O66529
AA	104	GLU	-	expression tag	UNP O66529
AA	105	HIS	-	expression tag	UNP O66529
AA	106	HIS	-	expression tag	UNP O66529
AA	107	HIS	-	expression tag	UNP O66529
AA	108	HIS	-	expression tag	UNP O66529
AA	109	LEU	-	expression tag	UNP O66529
AA	110	HIS	-	expression tag	UNP O66529
AA	111	GLY	-	expression tag	UNP O66529
AA	112	SER	-	expression tag	UNP O66529
AA	113	SER	-	expression tag	UNP O66529
AB	1	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
AB	2	GLY	-	expression tag	UNP O66529
AB	3	ASN	-	expression tag	UNP O66529
AB	4	ALA	-	expression tag	UNP O66529
AB	5	ARG	-	expression tag	UNP O66529
AB	6	THR	-	expression tag	UNP O66529
AB	7	ARG	-	expression tag	UNP O66529
AB	8	ARG	-	expression tag	UNP O66529
AB	9	ARG	-	expression tag	UNP O66529
AB	10	GLU	-	expression tag	UNP O66529
AB	11	ARG	-	expression tag	UNP O66529
AB	12	ARG	-	expression tag	UNP O66529
AB	13	ALA	-	expression tag	UNP O66529
AB	14	GLU	-	expression tag	UNP O66529
AB	15	LYS	-	expression tag	UNP O66529
AB	16	GLN	-	expression tag	UNP O66529
AB	17	ALA	-	expression tag	UNP O66529
AB	18	GLN	-	expression tag	UNP O66529
AB	19	TRP	-	expression tag	UNP O66529
AB	20	LYS	-	expression tag	UNP O66529
AB	21	ALA	-	expression tag	UNP O66529
AB	22	ALA	-	expression tag	UNP O66529
AB	23	ASN	-	expression tag	UNP O66529
AB	24	ALA	-	expression tag	UNP O66529
AB	25	GLY	-	expression tag	UNP O66529
AB	26	ALA	-	expression tag	UNP O66529
AB	27	GLY	-	expression tag	UNP O66529
AB	28	ALA	-	expression tag	UNP O66529
AB	29	GLY	-	expression tag	UNP O66529
AB	30	ALA	-	expression tag	UNP O66529
AB	31	MET	-	expression tag	UNP O66529
AB	39	ASN	ILE	conflict	UNP O66529
AB	42	VAL	GLU	conflict	UNP O66529
AB	58	VAL	ILE	conflict	UNP O66529
AB	59	SER	THR	conflict	UNP O66529
AB	61	ASP	GLY	conflict	UNP O66529
AB	62	ILE	VAL	conflict	UNP O66529
AB	97	TYR	PHE	conflict	UNP O66529
AB	102	GLY	-	expression tag	UNP O66529
AB	103	THR	-	expression tag	UNP O66529
AB	104	GLU	-	expression tag	UNP O66529
AB	105	HIS	-	expression tag	UNP O66529
AB	106	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
AB	107	HIS	-	expression tag	UNP O66529
AB	108	HIS	-	expression tag	UNP O66529
AB	109	LEU	-	expression tag	UNP O66529
AB	110	HIS	-	expression tag	UNP O66529
AB	111	GLY	-	expression tag	UNP O66529
AB	112	SER	-	expression tag	UNP O66529
AB	113	SER	-	expression tag	UNP O66529
AC	1	MET	-	initiating methionine	UNP O66529
AC	2	GLY	-	expression tag	UNP O66529
AC	3	ASN	-	expression tag	UNP O66529
AC	4	ALA	-	expression tag	UNP O66529
AC	5	ARG	-	expression tag	UNP O66529
AC	6	THR	-	expression tag	UNP O66529
AC	7	ARG	-	expression tag	UNP O66529
AC	8	ARG	-	expression tag	UNP O66529
AC	9	ARG	-	expression tag	UNP O66529
AC	10	GLU	-	expression tag	UNP O66529
AC	11	ARG	-	expression tag	UNP O66529
AC	12	ARG	-	expression tag	UNP O66529
AC	13	ALA	-	expression tag	UNP O66529
AC	14	GLU	-	expression tag	UNP O66529
AC	15	LYS	-	expression tag	UNP O66529
AC	16	GLN	-	expression tag	UNP O66529
AC	17	ALA	-	expression tag	UNP O66529
AC	18	GLN	-	expression tag	UNP O66529
AC	19	TRP	-	expression tag	UNP O66529
AC	20	LYS	-	expression tag	UNP O66529
AC	21	ALA	-	expression tag	UNP O66529
AC	22	ALA	-	expression tag	UNP O66529
AC	23	ASN	-	expression tag	UNP O66529
AC	24	ALA	-	expression tag	UNP O66529
AC	25	GLY	-	expression tag	UNP O66529
AC	26	ALA	-	expression tag	UNP O66529
AC	27	GLY	-	expression tag	UNP O66529
AC	28	ALA	-	expression tag	UNP O66529
AC	29	GLY	-	expression tag	UNP O66529
AC	30	ALA	-	expression tag	UNP O66529
AC	31	MET	-	expression tag	UNP O66529
AC	39	ASN	ILE	conflict	UNP O66529
AC	42	VAL	GLU	conflict	UNP O66529
AC	58	VAL	ILE	conflict	UNP O66529
AC	59	SER	THR	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
AC	61	ASP	GLY	conflict	UNP O66529
AC	62	ILE	VAL	conflict	UNP O66529
AC	97	TYR	PHE	conflict	UNP O66529
AC	102	GLY	-	expression tag	UNP O66529
AC	103	THR	-	expression tag	UNP O66529
AC	104	GLU	-	expression tag	UNP O66529
AC	105	HIS	-	expression tag	UNP O66529
AC	106	HIS	-	expression tag	UNP O66529
AC	107	HIS	-	expression tag	UNP O66529
AC	108	HIS	-	expression tag	UNP O66529
AC	109	LEU	-	expression tag	UNP O66529
AC	110	HIS	-	expression tag	UNP O66529
AC	111	GLY	-	expression tag	UNP O66529
AC	112	SER	-	expression tag	UNP O66529
AC	113	SER	-	expression tag	UNP O66529
AD	1	MET	-	initiating methionine	UNP O66529
AD	2	GLY	-	expression tag	UNP O66529
AD	3	ASN	-	expression tag	UNP O66529
AD	4	ALA	-	expression tag	UNP O66529
AD	5	ARG	-	expression tag	UNP O66529
AD	6	THR	-	expression tag	UNP O66529
AD	7	ARG	-	expression tag	UNP O66529
AD	8	ARG	-	expression tag	UNP O66529
AD	9	ARG	-	expression tag	UNP O66529
AD	10	GLU	-	expression tag	UNP O66529
AD	11	ARG	-	expression tag	UNP O66529
AD	12	ARG	-	expression tag	UNP O66529
AD	13	ALA	-	expression tag	UNP O66529
AD	14	GLU	-	expression tag	UNP O66529
AD	15	LYS	-	expression tag	UNP O66529
AD	16	GLN	-	expression tag	UNP O66529
AD	17	ALA	-	expression tag	UNP O66529
AD	18	GLN	-	expression tag	UNP O66529
AD	19	TRP	-	expression tag	UNP O66529
AD	20	LYS	-	expression tag	UNP O66529
AD	21	ALA	-	expression tag	UNP O66529
AD	22	ALA	-	expression tag	UNP O66529
AD	23	ASN	-	expression tag	UNP O66529
AD	24	ALA	-	expression tag	UNP O66529
AD	25	GLY	-	expression tag	UNP O66529
AD	26	ALA	-	expression tag	UNP O66529
AD	27	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
AD	28	ALA	-	expression tag	UNP O66529
AD	29	GLY	-	expression tag	UNP O66529
AD	30	ALA	-	expression tag	UNP O66529
AD	31	MET	-	expression tag	UNP O66529
AD	39	ASN	ILE	conflict	UNP O66529
AD	42	VAL	GLU	conflict	UNP O66529
AD	58	VAL	ILE	conflict	UNP O66529
AD	59	SER	THR	conflict	UNP O66529
AD	61	ASP	GLY	conflict	UNP O66529
AD	62	ILE	VAL	conflict	UNP O66529
AD	97	TYR	PHE	conflict	UNP O66529
AD	102	GLY	-	expression tag	UNP O66529
AD	103	THR	-	expression tag	UNP O66529
AD	104	GLU	-	expression tag	UNP O66529
AD	105	HIS	-	expression tag	UNP O66529
AD	106	HIS	-	expression tag	UNP O66529
AD	107	HIS	-	expression tag	UNP O66529
AD	108	HIS	-	expression tag	UNP O66529
AD	109	LEU	-	expression tag	UNP O66529
AD	110	HIS	-	expression tag	UNP O66529
AD	111	GLY	-	expression tag	UNP O66529
AD	112	SER	-	expression tag	UNP O66529
AD	113	SER	-	expression tag	UNP O66529
BA	1	MET	-	initiating methionine	UNP O66529
BA	2	GLY	-	expression tag	UNP O66529
BA	3	ASN	-	expression tag	UNP O66529
BA	4	ALA	-	expression tag	UNP O66529
BA	5	ARG	-	expression tag	UNP O66529
BA	6	THR	-	expression tag	UNP O66529
BA	7	ARG	-	expression tag	UNP O66529
BA	8	ARG	-	expression tag	UNP O66529
BA	9	ARG	-	expression tag	UNP O66529
BA	10	GLU	-	expression tag	UNP O66529
BA	11	ARG	-	expression tag	UNP O66529
BA	12	ARG	-	expression tag	UNP O66529
BA	13	ALA	-	expression tag	UNP O66529
BA	14	GLU	-	expression tag	UNP O66529
BA	15	LYS	-	expression tag	UNP O66529
BA	16	GLN	-	expression tag	UNP O66529
BA	17	ALA	-	expression tag	UNP O66529
BA	18	GLN	-	expression tag	UNP O66529
BA	19	TRP	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
BA	20	LYS	-	expression tag	UNP O66529
BA	21	ALA	-	expression tag	UNP O66529
BA	22	ALA	-	expression tag	UNP O66529
BA	23	ASN	-	expression tag	UNP O66529
BA	24	ALA	-	expression tag	UNP O66529
BA	25	GLY	-	expression tag	UNP O66529
BA	26	ALA	-	expression tag	UNP O66529
BA	27	GLY	-	expression tag	UNP O66529
BA	28	ALA	-	expression tag	UNP O66529
BA	29	GLY	-	expression tag	UNP O66529
BA	30	ALA	-	expression tag	UNP O66529
BA	31	MET	-	expression tag	UNP O66529
BA	39	ASN	ILE	conflict	UNP O66529
BA	42	VAL	GLU	conflict	UNP O66529
BA	58	VAL	ILE	conflict	UNP O66529
BA	59	SER	THR	conflict	UNP O66529
BA	61	ASP	GLY	conflict	UNP O66529
BA	62	ILE	VAL	conflict	UNP O66529
BA	97	TYR	PHE	conflict	UNP O66529
BA	102	GLY	-	expression tag	UNP O66529
BA	103	THR	-	expression tag	UNP O66529
BA	104	GLU	-	expression tag	UNP O66529
BA	105	HIS	-	expression tag	UNP O66529
BA	106	HIS	-	expression tag	UNP O66529
BA	107	HIS	-	expression tag	UNP O66529
BA	108	HIS	-	expression tag	UNP O66529
BA	109	LEU	-	expression tag	UNP O66529
BA	110	HIS	-	expression tag	UNP O66529
BA	111	GLY	-	expression tag	UNP O66529
BA	112	SER	-	expression tag	UNP O66529
BA	113	SER	-	expression tag	UNP O66529
BB	1	MET	-	initiating methionine	UNP O66529
BB	2	GLY	-	expression tag	UNP O66529
BB	3	ASN	-	expression tag	UNP O66529
BB	4	ALA	-	expression tag	UNP O66529
BB	5	ARG	-	expression tag	UNP O66529
BB	6	THR	-	expression tag	UNP O66529
BB	7	ARG	-	expression tag	UNP O66529
BB	8	ARG	-	expression tag	UNP O66529
BB	9	ARG	-	expression tag	UNP O66529
BB	10	GLU	-	expression tag	UNP O66529
BB	11	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
BB	12	ARG	-	expression tag	UNP O66529
BB	13	ALA	-	expression tag	UNP O66529
BB	14	GLU	-	expression tag	UNP O66529
BB	15	LYS	-	expression tag	UNP O66529
BB	16	GLN	-	expression tag	UNP O66529
BB	17	ALA	-	expression tag	UNP O66529
BB	18	GLN	-	expression tag	UNP O66529
BB	19	TRP	-	expression tag	UNP O66529
BB	20	LYS	-	expression tag	UNP O66529
BB	21	ALA	-	expression tag	UNP O66529
BB	22	ALA	-	expression tag	UNP O66529
BB	23	ASN	-	expression tag	UNP O66529
BB	24	ALA	-	expression tag	UNP O66529
BB	25	GLY	-	expression tag	UNP O66529
BB	26	ALA	-	expression tag	UNP O66529
BB	27	GLY	-	expression tag	UNP O66529
BB	28	ALA	-	expression tag	UNP O66529
BB	29	GLY	-	expression tag	UNP O66529
BB	30	ALA	-	expression tag	UNP O66529
BB	31	MET	-	expression tag	UNP O66529
BB	39	ASN	ILE	conflict	UNP O66529
BB	42	VAL	GLU	conflict	UNP O66529
BB	58	VAL	ILE	conflict	UNP O66529
BB	59	SER	THR	conflict	UNP O66529
BB	61	ASP	GLY	conflict	UNP O66529
BB	62	ILE	VAL	conflict	UNP O66529
BB	97	TYR	PHE	conflict	UNP O66529
BB	102	GLY	-	expression tag	UNP O66529
BB	103	THR	-	expression tag	UNP O66529
BB	104	GLU	-	expression tag	UNP O66529
BB	105	HIS	-	expression tag	UNP O66529
BB	106	HIS	-	expression tag	UNP O66529
BB	107	HIS	-	expression tag	UNP O66529
BB	108	HIS	-	expression tag	UNP O66529
BB	109	LEU	-	expression tag	UNP O66529
BB	110	HIS	-	expression tag	UNP O66529
BB	111	GLY	-	expression tag	UNP O66529
BB	112	SER	-	expression tag	UNP O66529
BB	113	SER	-	expression tag	UNP O66529
BC	1	MET	-	initiating methionine	UNP O66529
BC	2	GLY	-	expression tag	UNP O66529
BC	3	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
BC	4	ALA	-	expression tag	UNP O66529
BC	5	ARG	-	expression tag	UNP O66529
BC	6	THR	-	expression tag	UNP O66529
BC	7	ARG	-	expression tag	UNP O66529
BC	8	ARG	-	expression tag	UNP O66529
BC	9	ARG	-	expression tag	UNP O66529
BC	10	GLU	-	expression tag	UNP O66529
BC	11	ARG	-	expression tag	UNP O66529
BC	12	ARG	-	expression tag	UNP O66529
BC	13	ALA	-	expression tag	UNP O66529
BC	14	GLU	-	expression tag	UNP O66529
BC	15	LYS	-	expression tag	UNP O66529
BC	16	GLN	-	expression tag	UNP O66529
BC	17	ALA	-	expression tag	UNP O66529
BC	18	GLN	-	expression tag	UNP O66529
BC	19	TRP	-	expression tag	UNP O66529
BC	20	LYS	-	expression tag	UNP O66529
BC	21	ALA	-	expression tag	UNP O66529
BC	22	ALA	-	expression tag	UNP O66529
BC	23	ASN	-	expression tag	UNP O66529
BC	24	ALA	-	expression tag	UNP O66529
BC	25	GLY	-	expression tag	UNP O66529
BC	26	ALA	-	expression tag	UNP O66529
BC	27	GLY	-	expression tag	UNP O66529
BC	28	ALA	-	expression tag	UNP O66529
BC	29	GLY	-	expression tag	UNP O66529
BC	30	ALA	-	expression tag	UNP O66529
BC	31	MET	-	expression tag	UNP O66529
BC	39	ASN	ILE	conflict	UNP O66529
BC	42	VAL	GLU	conflict	UNP O66529
BC	58	VAL	ILE	conflict	UNP O66529
BC	59	SER	THR	conflict	UNP O66529
BC	61	ASP	GLY	conflict	UNP O66529
BC	62	ILE	VAL	conflict	UNP O66529
BC	97	TYR	PHE	conflict	UNP O66529
BC	102	GLY	-	expression tag	UNP O66529
BC	103	THR	-	expression tag	UNP O66529
BC	104	GLU	-	expression tag	UNP O66529
BC	105	HIS	-	expression tag	UNP O66529
BC	106	HIS	-	expression tag	UNP O66529
BC	107	HIS	-	expression tag	UNP O66529
BC	108	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
BC	109	LEU	-	expression tag	UNP O66529
BC	110	HIS	-	expression tag	UNP O66529
BC	111	GLY	-	expression tag	UNP O66529
BC	112	SER	-	expression tag	UNP O66529
BC	113	SER	-	expression tag	UNP O66529
BD	1	MET	-	initiating methionine	UNP O66529
BD	2	GLY	-	expression tag	UNP O66529
BD	3	ASN	-	expression tag	UNP O66529
BD	4	ALA	-	expression tag	UNP O66529
BD	5	ARG	-	expression tag	UNP O66529
BD	6	THR	-	expression tag	UNP O66529
BD	7	ARG	-	expression tag	UNP O66529
BD	8	ARG	-	expression tag	UNP O66529
BD	9	ARG	-	expression tag	UNP O66529
BD	10	GLU	-	expression tag	UNP O66529
BD	11	ARG	-	expression tag	UNP O66529
BD	12	ARG	-	expression tag	UNP O66529
BD	13	ALA	-	expression tag	UNP O66529
BD	14	GLU	-	expression tag	UNP O66529
BD	15	LYS	-	expression tag	UNP O66529
BD	16	GLN	-	expression tag	UNP O66529
BD	17	ALA	-	expression tag	UNP O66529
BD	18	GLN	-	expression tag	UNP O66529
BD	19	TRP	-	expression tag	UNP O66529
BD	20	LYS	-	expression tag	UNP O66529
BD	21	ALA	-	expression tag	UNP O66529
BD	22	ALA	-	expression tag	UNP O66529
BD	23	ASN	-	expression tag	UNP O66529
BD	24	ALA	-	expression tag	UNP O66529
BD	25	GLY	-	expression tag	UNP O66529
BD	26	ALA	-	expression tag	UNP O66529
BD	27	GLY	-	expression tag	UNP O66529
BD	28	ALA	-	expression tag	UNP O66529
BD	29	GLY	-	expression tag	UNP O66529
BD	30	ALA	-	expression tag	UNP O66529
BD	31	MET	-	expression tag	UNP O66529
BD	39	ASN	ILE	conflict	UNP O66529
BD	42	VAL	GLU	conflict	UNP O66529
BD	58	VAL	ILE	conflict	UNP O66529
BD	59	SER	THR	conflict	UNP O66529
BD	61	ASP	GLY	conflict	UNP O66529
BD	62	ILE	VAL	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
BD	97	TYR	PHE	conflict	UNP O66529
BD	102	GLY	-	expression tag	UNP O66529
BD	103	THR	-	expression tag	UNP O66529
BD	104	GLU	-	expression tag	UNP O66529
BD	105	HIS	-	expression tag	UNP O66529
BD	106	HIS	-	expression tag	UNP O66529
BD	107	HIS	-	expression tag	UNP O66529
BD	108	HIS	-	expression tag	UNP O66529
BD	109	LEU	-	expression tag	UNP O66529
BD	110	HIS	-	expression tag	UNP O66529
BD	111	GLY	-	expression tag	UNP O66529
BD	112	SER	-	expression tag	UNP O66529
BD	113	SER	-	expression tag	UNP O66529
CA	1	MET	-	initiating methionine	UNP O66529
CA	2	GLY	-	expression tag	UNP O66529
CA	3	ASN	-	expression tag	UNP O66529
CA	4	ALA	-	expression tag	UNP O66529
CA	5	ARG	-	expression tag	UNP O66529
CA	6	THR	-	expression tag	UNP O66529
CA	7	ARG	-	expression tag	UNP O66529
CA	8	ARG	-	expression tag	UNP O66529
CA	9	ARG	-	expression tag	UNP O66529
CA	10	GLU	-	expression tag	UNP O66529
CA	11	ARG	-	expression tag	UNP O66529
CA	12	ARG	-	expression tag	UNP O66529
CA	13	ALA	-	expression tag	UNP O66529
CA	14	GLU	-	expression tag	UNP O66529
CA	15	LYS	-	expression tag	UNP O66529
CA	16	GLN	-	expression tag	UNP O66529
CA	17	ALA	-	expression tag	UNP O66529
CA	18	GLN	-	expression tag	UNP O66529
CA	19	TRP	-	expression tag	UNP O66529
CA	20	LYS	-	expression tag	UNP O66529
CA	21	ALA	-	expression tag	UNP O66529
CA	22	ALA	-	expression tag	UNP O66529
CA	23	ASN	-	expression tag	UNP O66529
CA	24	ALA	-	expression tag	UNP O66529
CA	25	GLY	-	expression tag	UNP O66529
CA	26	ALA	-	expression tag	UNP O66529
CA	27	GLY	-	expression tag	UNP O66529
CA	28	ALA	-	expression tag	UNP O66529
CA	29	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
CA	30	ALA	-	expression tag	UNP O66529
CA	31	MET	-	expression tag	UNP O66529
CA	39	ASN	ILE	conflict	UNP O66529
CA	42	VAL	GLU	conflict	UNP O66529
CA	58	VAL	ILE	conflict	UNP O66529
CA	59	SER	THR	conflict	UNP O66529
CA	61	ASP	GLY	conflict	UNP O66529
CA	62	ILE	VAL	conflict	UNP O66529
CA	97	TYR	PHE	conflict	UNP O66529
CA	102	GLY	-	expression tag	UNP O66529
CA	103	THR	-	expression tag	UNP O66529
CA	104	GLU	-	expression tag	UNP O66529
CA	105	HIS	-	expression tag	UNP O66529
CA	106	HIS	-	expression tag	UNP O66529
CA	107	HIS	-	expression tag	UNP O66529
CA	108	HIS	-	expression tag	UNP O66529
CA	109	LEU	-	expression tag	UNP O66529
CA	110	HIS	-	expression tag	UNP O66529
CA	111	GLY	-	expression tag	UNP O66529
CA	112	SER	-	expression tag	UNP O66529
CA	113	SER	-	expression tag	UNP O66529
CB	1	MET	-	initiating methionine	UNP O66529
CB	2	GLY	-	expression tag	UNP O66529
CB	3	ASN	-	expression tag	UNP O66529
CB	4	ALA	-	expression tag	UNP O66529
CB	5	ARG	-	expression tag	UNP O66529
CB	6	THR	-	expression tag	UNP O66529
CB	7	ARG	-	expression tag	UNP O66529
CB	8	ARG	-	expression tag	UNP O66529
CB	9	ARG	-	expression tag	UNP O66529
CB	10	GLU	-	expression tag	UNP O66529
CB	11	ARG	-	expression tag	UNP O66529
CB	12	ARG	-	expression tag	UNP O66529
CB	13	ALA	-	expression tag	UNP O66529
CB	14	GLU	-	expression tag	UNP O66529
CB	15	LYS	-	expression tag	UNP O66529
CB	16	GLN	-	expression tag	UNP O66529
CB	17	ALA	-	expression tag	UNP O66529
CB	18	GLN	-	expression tag	UNP O66529
CB	19	TRP	-	expression tag	UNP O66529
CB	20	LYS	-	expression tag	UNP O66529
CB	21	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
CB	22	ALA	-	expression tag	UNP O66529
CB	23	ASN	-	expression tag	UNP O66529
CB	24	ALA	-	expression tag	UNP O66529
CB	25	GLY	-	expression tag	UNP O66529
CB	26	ALA	-	expression tag	UNP O66529
CB	27	GLY	-	expression tag	UNP O66529
CB	28	ALA	-	expression tag	UNP O66529
CB	29	GLY	-	expression tag	UNP O66529
CB	30	ALA	-	expression tag	UNP O66529
CB	31	MET	-	expression tag	UNP O66529
CB	39	ASN	ILE	conflict	UNP O66529
CB	42	VAL	GLU	conflict	UNP O66529
CB	58	VAL	ILE	conflict	UNP O66529
CB	59	SER	THR	conflict	UNP O66529
CB	61	ASP	GLY	conflict	UNP O66529
CB	62	ILE	VAL	conflict	UNP O66529
CB	97	TYR	PHE	conflict	UNP O66529
CB	102	GLY	-	expression tag	UNP O66529
CB	103	THR	-	expression tag	UNP O66529
CB	104	GLU	-	expression tag	UNP O66529
CB	105	HIS	-	expression tag	UNP O66529
CB	106	HIS	-	expression tag	UNP O66529
CB	107	HIS	-	expression tag	UNP O66529
CB	108	HIS	-	expression tag	UNP O66529
CB	109	LEU	-	expression tag	UNP O66529
CB	110	HIS	-	expression tag	UNP O66529
CB	111	GLY	-	expression tag	UNP O66529
CB	112	SER	-	expression tag	UNP O66529
CB	113	SER	-	expression tag	UNP O66529
CC	1	MET	-	initiating methionine	UNP O66529
CC	2	GLY	-	expression tag	UNP O66529
CC	3	ASN	-	expression tag	UNP O66529
CC	4	ALA	-	expression tag	UNP O66529
CC	5	ARG	-	expression tag	UNP O66529
CC	6	THR	-	expression tag	UNP O66529
CC	7	ARG	-	expression tag	UNP O66529
CC	8	ARG	-	expression tag	UNP O66529
CC	9	ARG	-	expression tag	UNP O66529
CC	10	GLU	-	expression tag	UNP O66529
CC	11	ARG	-	expression tag	UNP O66529
CC	12	ARG	-	expression tag	UNP O66529
CC	13	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
CC	14	GLU	-	expression tag	UNP O66529
CC	15	LYS	-	expression tag	UNP O66529
CC	16	GLN	-	expression tag	UNP O66529
CC	17	ALA	-	expression tag	UNP O66529
CC	18	GLN	-	expression tag	UNP O66529
CC	19	TRP	-	expression tag	UNP O66529
CC	20	LYS	-	expression tag	UNP O66529
CC	21	ALA	-	expression tag	UNP O66529
CC	22	ALA	-	expression tag	UNP O66529
CC	23	ASN	-	expression tag	UNP O66529
CC	24	ALA	-	expression tag	UNP O66529
CC	25	GLY	-	expression tag	UNP O66529
CC	26	ALA	-	expression tag	UNP O66529
CC	27	GLY	-	expression tag	UNP O66529
CC	28	ALA	-	expression tag	UNP O66529
CC	29	GLY	-	expression tag	UNP O66529
CC	30	ALA	-	expression tag	UNP O66529
CC	31	MET	-	expression tag	UNP O66529
CC	39	ASN	ILE	conflict	UNP O66529
CC	42	VAL	GLU	conflict	UNP O66529
CC	58	VAL	ILE	conflict	UNP O66529
CC	59	SER	THR	conflict	UNP O66529
CC	61	ASP	GLY	conflict	UNP O66529
CC	62	ILE	VAL	conflict	UNP O66529
CC	97	TYR	PHE	conflict	UNP O66529
CC	102	GLY	-	expression tag	UNP O66529
CC	103	THR	-	expression tag	UNP O66529
CC	104	GLU	-	expression tag	UNP O66529
CC	105	HIS	-	expression tag	UNP O66529
CC	106	HIS	-	expression tag	UNP O66529
CC	107	HIS	-	expression tag	UNP O66529
CC	108	HIS	-	expression tag	UNP O66529
CC	109	LEU	-	expression tag	UNP O66529
CC	110	HIS	-	expression tag	UNP O66529
CC	111	GLY	-	expression tag	UNP O66529
CC	112	SER	-	expression tag	UNP O66529
CC	113	SER	-	expression tag	UNP O66529
CD	1	MET	-	initiating methionine	UNP O66529
CD	2	GLY	-	expression tag	UNP O66529
CD	3	ASN	-	expression tag	UNP O66529
CD	4	ALA	-	expression tag	UNP O66529
CD	5	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
CD	6	THR	-	expression tag	UNP O66529
CD	7	ARG	-	expression tag	UNP O66529
CD	8	ARG	-	expression tag	UNP O66529
CD	9	ARG	-	expression tag	UNP O66529
CD	10	GLU	-	expression tag	UNP O66529
CD	11	ARG	-	expression tag	UNP O66529
CD	12	ARG	-	expression tag	UNP O66529
CD	13	ALA	-	expression tag	UNP O66529
CD	14	GLU	-	expression tag	UNP O66529
CD	15	LYS	-	expression tag	UNP O66529
CD	16	GLN	-	expression tag	UNP O66529
CD	17	ALA	-	expression tag	UNP O66529
CD	18	GLN	-	expression tag	UNP O66529
CD	19	TRP	-	expression tag	UNP O66529
CD	20	LYS	-	expression tag	UNP O66529
CD	21	ALA	-	expression tag	UNP O66529
CD	22	ALA	-	expression tag	UNP O66529
CD	23	ASN	-	expression tag	UNP O66529
CD	24	ALA	-	expression tag	UNP O66529
CD	25	GLY	-	expression tag	UNP O66529
CD	26	ALA	-	expression tag	UNP O66529
CD	27	GLY	-	expression tag	UNP O66529
CD	28	ALA	-	expression tag	UNP O66529
CD	29	GLY	-	expression tag	UNP O66529
CD	30	ALA	-	expression tag	UNP O66529
CD	31	MET	-	expression tag	UNP O66529
CD	39	ASN	ILE	conflict	UNP O66529
CD	42	VAL	GLU	conflict	UNP O66529
CD	58	VAL	ILE	conflict	UNP O66529
CD	59	SER	THR	conflict	UNP O66529
CD	61	ASP	GLY	conflict	UNP O66529
CD	62	ILE	VAL	conflict	UNP O66529
CD	97	TYR	PHE	conflict	UNP O66529
CD	102	GLY	-	expression tag	UNP O66529
CD	103	THR	-	expression tag	UNP O66529
CD	104	GLU	-	expression tag	UNP O66529
CD	105	HIS	-	expression tag	UNP O66529
CD	106	HIS	-	expression tag	UNP O66529
CD	107	HIS	-	expression tag	UNP O66529
CD	108	HIS	-	expression tag	UNP O66529
CD	109	LEU	-	expression tag	UNP O66529
CD	110	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
CD	111	GLY	-	expression tag	UNP O66529
CD	112	SER	-	expression tag	UNP O66529
CD	113	SER	-	expression tag	UNP O66529
DA	1	MET	-	initiating methionine	UNP O66529
DA	2	GLY	-	expression tag	UNP O66529
DA	3	ASN	-	expression tag	UNP O66529
DA	4	ALA	-	expression tag	UNP O66529
DA	5	ARG	-	expression tag	UNP O66529
DA	6	THR	-	expression tag	UNP O66529
DA	7	ARG	-	expression tag	UNP O66529
DA	8	ARG	-	expression tag	UNP O66529
DA	9	ARG	-	expression tag	UNP O66529
DA	10	GLU	-	expression tag	UNP O66529
DA	11	ARG	-	expression tag	UNP O66529
DA	12	ARG	-	expression tag	UNP O66529
DA	13	ALA	-	expression tag	UNP O66529
DA	14	GLU	-	expression tag	UNP O66529
DA	15	LYS	-	expression tag	UNP O66529
DA	16	GLN	-	expression tag	UNP O66529
DA	17	ALA	-	expression tag	UNP O66529
DA	18	GLN	-	expression tag	UNP O66529
DA	19	TRP	-	expression tag	UNP O66529
DA	20	LYS	-	expression tag	UNP O66529
DA	21	ALA	-	expression tag	UNP O66529
DA	22	ALA	-	expression tag	UNP O66529
DA	23	ASN	-	expression tag	UNP O66529
DA	24	ALA	-	expression tag	UNP O66529
DA	25	GLY	-	expression tag	UNP O66529
DA	26	ALA	-	expression tag	UNP O66529
DA	27	GLY	-	expression tag	UNP O66529
DA	28	ALA	-	expression tag	UNP O66529
DA	29	GLY	-	expression tag	UNP O66529
DA	30	ALA	-	expression tag	UNP O66529
DA	31	MET	-	expression tag	UNP O66529
DA	39	ASN	ILE	conflict	UNP O66529
DA	42	VAL	GLU	conflict	UNP O66529
DA	58	VAL	ILE	conflict	UNP O66529
DA	59	SER	THR	conflict	UNP O66529
DA	61	ASP	GLY	conflict	UNP O66529
DA	62	ILE	VAL	conflict	UNP O66529
DA	97	TYR	PHE	conflict	UNP O66529
DA	102	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
DA	103	THR	-	expression tag	UNP O66529
DA	104	GLU	-	expression tag	UNP O66529
DA	105	HIS	-	expression tag	UNP O66529
DA	106	HIS	-	expression tag	UNP O66529
DA	107	HIS	-	expression tag	UNP O66529
DA	108	HIS	-	expression tag	UNP O66529
DA	109	LEU	-	expression tag	UNP O66529
DA	110	HIS	-	expression tag	UNP O66529
DA	111	GLY	-	expression tag	UNP O66529
DA	112	SER	-	expression tag	UNP O66529
DA	113	SER	-	expression tag	UNP O66529
DB	1	MET	-	initiating methionine	UNP O66529
DB	2	GLY	-	expression tag	UNP O66529
DB	3	ASN	-	expression tag	UNP O66529
DB	4	ALA	-	expression tag	UNP O66529
DB	5	ARG	-	expression tag	UNP O66529
DB	6	THR	-	expression tag	UNP O66529
DB	7	ARG	-	expression tag	UNP O66529
DB	8	ARG	-	expression tag	UNP O66529
DB	9	ARG	-	expression tag	UNP O66529
DB	10	GLU	-	expression tag	UNP O66529
DB	11	ARG	-	expression tag	UNP O66529
DB	12	ARG	-	expression tag	UNP O66529
DB	13	ALA	-	expression tag	UNP O66529
DB	14	GLU	-	expression tag	UNP O66529
DB	15	LYS	-	expression tag	UNP O66529
DB	16	GLN	-	expression tag	UNP O66529
DB	17	ALA	-	expression tag	UNP O66529
DB	18	GLN	-	expression tag	UNP O66529
DB	19	TRP	-	expression tag	UNP O66529
DB	20	LYS	-	expression tag	UNP O66529
DB	21	ALA	-	expression tag	UNP O66529
DB	22	ALA	-	expression tag	UNP O66529
DB	23	ASN	-	expression tag	UNP O66529
DB	24	ALA	-	expression tag	UNP O66529
DB	25	GLY	-	expression tag	UNP O66529
DB	26	ALA	-	expression tag	UNP O66529
DB	27	GLY	-	expression tag	UNP O66529
DB	28	ALA	-	expression tag	UNP O66529
DB	29	GLY	-	expression tag	UNP O66529
DB	30	ALA	-	expression tag	UNP O66529
DB	31	MET	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
DB	39	ASN	ILE	conflict	UNP O66529
DB	42	VAL	GLU	conflict	UNP O66529
DB	58	VAL	ILE	conflict	UNP O66529
DB	59	SER	THR	conflict	UNP O66529
DB	61	ASP	GLY	conflict	UNP O66529
DB	62	ILE	VAL	conflict	UNP O66529
DB	97	TYR	PHE	conflict	UNP O66529
DB	102	GLY	-	expression tag	UNP O66529
DB	103	THR	-	expression tag	UNP O66529
DB	104	GLU	-	expression tag	UNP O66529
DB	105	HIS	-	expression tag	UNP O66529
DB	106	HIS	-	expression tag	UNP O66529
DB	107	HIS	-	expression tag	UNP O66529
DB	108	HIS	-	expression tag	UNP O66529
DB	109	LEU	-	expression tag	UNP O66529
DB	110	HIS	-	expression tag	UNP O66529
DB	111	GLY	-	expression tag	UNP O66529
DB	112	SER	-	expression tag	UNP O66529
DB	113	SER	-	expression tag	UNP O66529
DC	1	MET	-	initiating methionine	UNP O66529
DC	2	GLY	-	expression tag	UNP O66529
DC	3	ASN	-	expression tag	UNP O66529
DC	4	ALA	-	expression tag	UNP O66529
DC	5	ARG	-	expression tag	UNP O66529
DC	6	THR	-	expression tag	UNP O66529
DC	7	ARG	-	expression tag	UNP O66529
DC	8	ARG	-	expression tag	UNP O66529
DC	9	ARG	-	expression tag	UNP O66529
DC	10	GLU	-	expression tag	UNP O66529
DC	11	ARG	-	expression tag	UNP O66529
DC	12	ARG	-	expression tag	UNP O66529
DC	13	ALA	-	expression tag	UNP O66529
DC	14	GLU	-	expression tag	UNP O66529
DC	15	LYS	-	expression tag	UNP O66529
DC	16	GLN	-	expression tag	UNP O66529
DC	17	ALA	-	expression tag	UNP O66529
DC	18	GLN	-	expression tag	UNP O66529
DC	19	TRP	-	expression tag	UNP O66529
DC	20	LYS	-	expression tag	UNP O66529
DC	21	ALA	-	expression tag	UNP O66529
DC	22	ALA	-	expression tag	UNP O66529
DC	23	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
DC	24	ALA	-	expression tag	UNP O66529
DC	25	GLY	-	expression tag	UNP O66529
DC	26	ALA	-	expression tag	UNP O66529
DC	27	GLY	-	expression tag	UNP O66529
DC	28	ALA	-	expression tag	UNP O66529
DC	29	GLY	-	expression tag	UNP O66529
DC	30	ALA	-	expression tag	UNP O66529
DC	31	MET	-	expression tag	UNP O66529
DC	39	ASN	ILE	conflict	UNP O66529
DC	42	VAL	GLU	conflict	UNP O66529
DC	58	VAL	ILE	conflict	UNP O66529
DC	59	SER	THR	conflict	UNP O66529
DC	61	ASP	GLY	conflict	UNP O66529
DC	62	ILE	VAL	conflict	UNP O66529
DC	97	TYR	PHE	conflict	UNP O66529
DC	102	GLY	-	expression tag	UNP O66529
DC	103	THR	-	expression tag	UNP O66529
DC	104	GLU	-	expression tag	UNP O66529
DC	105	HIS	-	expression tag	UNP O66529
DC	106	HIS	-	expression tag	UNP O66529
DC	107	HIS	-	expression tag	UNP O66529
DC	108	HIS	-	expression tag	UNP O66529
DC	109	LEU	-	expression tag	UNP O66529
DC	110	HIS	-	expression tag	UNP O66529
DC	111	GLY	-	expression tag	UNP O66529
DC	112	SER	-	expression tag	UNP O66529
DC	113	SER	-	expression tag	UNP O66529
DD	1	MET	-	initiating methionine	UNP O66529
DD	2	GLY	-	expression tag	UNP O66529
DD	3	ASN	-	expression tag	UNP O66529
DD	4	ALA	-	expression tag	UNP O66529
DD	5	ARG	-	expression tag	UNP O66529
DD	6	THR	-	expression tag	UNP O66529
DD	7	ARG	-	expression tag	UNP O66529
DD	8	ARG	-	expression tag	UNP O66529
DD	9	ARG	-	expression tag	UNP O66529
DD	10	GLU	-	expression tag	UNP O66529
DD	11	ARG	-	expression tag	UNP O66529
DD	12	ARG	-	expression tag	UNP O66529
DD	13	ALA	-	expression tag	UNP O66529
DD	14	GLU	-	expression tag	UNP O66529
DD	15	LYS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
DD	16	GLN	-	expression tag	UNP O66529
DD	17	ALA	-	expression tag	UNP O66529
DD	18	GLN	-	expression tag	UNP O66529
DD	19	TRP	-	expression tag	UNP O66529
DD	20	LYS	-	expression tag	UNP O66529
DD	21	ALA	-	expression tag	UNP O66529
DD	22	ALA	-	expression tag	UNP O66529
DD	23	ASN	-	expression tag	UNP O66529
DD	24	ALA	-	expression tag	UNP O66529
DD	25	GLY	-	expression tag	UNP O66529
DD	26	ALA	-	expression tag	UNP O66529
DD	27	GLY	-	expression tag	UNP O66529
DD	28	ALA	-	expression tag	UNP O66529
DD	29	GLY	-	expression tag	UNP O66529
DD	30	ALA	-	expression tag	UNP O66529
DD	31	MET	-	expression tag	UNP O66529
DD	39	ASN	ILE	conflict	UNP O66529
DD	42	VAL	GLU	conflict	UNP O66529
DD	58	VAL	ILE	conflict	UNP O66529
DD	59	SER	THR	conflict	UNP O66529
DD	61	ASP	GLY	conflict	UNP O66529
DD	62	ILE	VAL	conflict	UNP O66529
DD	97	TYR	PHE	conflict	UNP O66529
DD	102	GLY	-	expression tag	UNP O66529
DD	103	THR	-	expression tag	UNP O66529
DD	104	GLU	-	expression tag	UNP O66529
DD	105	HIS	-	expression tag	UNP O66529
DD	106	HIS	-	expression tag	UNP O66529
DD	107	HIS	-	expression tag	UNP O66529
DD	108	HIS	-	expression tag	UNP O66529
DD	109	LEU	-	expression tag	UNP O66529
DD	110	HIS	-	expression tag	UNP O66529
DD	111	GLY	-	expression tag	UNP O66529
DD	112	SER	-	expression tag	UNP O66529
DD	113	SER	-	expression tag	UNP O66529
EA	1	MET	-	initiating methionine	UNP O66529
EA	2	GLY	-	expression tag	UNP O66529
EA	3	ASN	-	expression tag	UNP O66529
EA	4	ALA	-	expression tag	UNP O66529
EA	5	ARG	-	expression tag	UNP O66529
EA	6	THR	-	expression tag	UNP O66529
EA	7	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
EA	8	ARG	-	expression tag	UNP O66529
EA	9	ARG	-	expression tag	UNP O66529
EA	10	GLU	-	expression tag	UNP O66529
EA	11	ARG	-	expression tag	UNP O66529
EA	12	ARG	-	expression tag	UNP O66529
EA	13	ALA	-	expression tag	UNP O66529
EA	14	GLU	-	expression tag	UNP O66529
EA	15	LYS	-	expression tag	UNP O66529
EA	16	GLN	-	expression tag	UNP O66529
EA	17	ALA	-	expression tag	UNP O66529
EA	18	GLN	-	expression tag	UNP O66529
EA	19	TRP	-	expression tag	UNP O66529
EA	20	LYS	-	expression tag	UNP O66529
EA	21	ALA	-	expression tag	UNP O66529
EA	22	ALA	-	expression tag	UNP O66529
EA	23	ASN	-	expression tag	UNP O66529
EA	24	ALA	-	expression tag	UNP O66529
EA	25	GLY	-	expression tag	UNP O66529
EA	26	ALA	-	expression tag	UNP O66529
EA	27	GLY	-	expression tag	UNP O66529
EA	28	ALA	-	expression tag	UNP O66529
EA	29	GLY	-	expression tag	UNP O66529
EA	30	ALA	-	expression tag	UNP O66529
EA	31	MET	-	expression tag	UNP O66529
EA	39	ASN	ILE	conflict	UNP O66529
EA	42	VAL	GLU	conflict	UNP O66529
EA	58	VAL	ILE	conflict	UNP O66529
EA	59	SER	THR	conflict	UNP O66529
EA	61	ASP	GLY	conflict	UNP O66529
EA	62	ILE	VAL	conflict	UNP O66529
EA	97	TYR	PHE	conflict	UNP O66529
EA	102	GLY	-	expression tag	UNP O66529
EA	103	THR	-	expression tag	UNP O66529
EA	104	GLU	-	expression tag	UNP O66529
EA	105	HIS	-	expression tag	UNP O66529
EA	106	HIS	-	expression tag	UNP O66529
EA	107	HIS	-	expression tag	UNP O66529
EA	108	HIS	-	expression tag	UNP O66529
EA	109	LEU	-	expression tag	UNP O66529
EA	110	HIS	-	expression tag	UNP O66529
EA	111	GLY	-	expression tag	UNP O66529
EA	112	SER	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
EA	113	SER	-	expression tag	UNP O66529
EB	1	MET	-	initiating methionine	UNP O66529
EB	2	GLY	-	expression tag	UNP O66529
EB	3	ASN	-	expression tag	UNP O66529
EB	4	ALA	-	expression tag	UNP O66529
EB	5	ARG	-	expression tag	UNP O66529
EB	6	THR	-	expression tag	UNP O66529
EB	7	ARG	-	expression tag	UNP O66529
EB	8	ARG	-	expression tag	UNP O66529
EB	9	ARG	-	expression tag	UNP O66529
EB	10	GLU	-	expression tag	UNP O66529
EB	11	ARG	-	expression tag	UNP O66529
EB	12	ARG	-	expression tag	UNP O66529
EB	13	ALA	-	expression tag	UNP O66529
EB	14	GLU	-	expression tag	UNP O66529
EB	15	LYS	-	expression tag	UNP O66529
EB	16	GLN	-	expression tag	UNP O66529
EB	17	ALA	-	expression tag	UNP O66529
EB	18	GLN	-	expression tag	UNP O66529
EB	19	TRP	-	expression tag	UNP O66529
EB	20	LYS	-	expression tag	UNP O66529
EB	21	ALA	-	expression tag	UNP O66529
EB	22	ALA	-	expression tag	UNP O66529
EB	23	ASN	-	expression tag	UNP O66529
EB	24	ALA	-	expression tag	UNP O66529
EB	25	GLY	-	expression tag	UNP O66529
EB	26	ALA	-	expression tag	UNP O66529
EB	27	GLY	-	expression tag	UNP O66529
EB	28	ALA	-	expression tag	UNP O66529
EB	29	GLY	-	expression tag	UNP O66529
EB	30	ALA	-	expression tag	UNP O66529
EB	31	MET	-	expression tag	UNP O66529
EB	39	ASN	ILE	conflict	UNP O66529
EB	42	VAL	GLU	conflict	UNP O66529
EB	58	VAL	ILE	conflict	UNP O66529
EB	59	SER	THR	conflict	UNP O66529
EB	61	ASP	GLY	conflict	UNP O66529
EB	62	ILE	VAL	conflict	UNP O66529
EB	97	TYR	PHE	conflict	UNP O66529
EB	102	GLY	-	expression tag	UNP O66529
EB	103	THR	-	expression tag	UNP O66529
EB	104	GLU	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
EB	105	HIS	-	expression tag	UNP O66529
EB	106	HIS	-	expression tag	UNP O66529
EB	107	HIS	-	expression tag	UNP O66529
EB	108	HIS	-	expression tag	UNP O66529
EB	109	LEU	-	expression tag	UNP O66529
EB	110	HIS	-	expression tag	UNP O66529
EB	111	GLY	-	expression tag	UNP O66529
EB	112	SER	-	expression tag	UNP O66529
EB	113	SER	-	expression tag	UNP O66529
EC	1	MET	-	initiating methionine	UNP O66529
EC	2	GLY	-	expression tag	UNP O66529
EC	3	ASN	-	expression tag	UNP O66529
EC	4	ALA	-	expression tag	UNP O66529
EC	5	ARG	-	expression tag	UNP O66529
EC	6	THR	-	expression tag	UNP O66529
EC	7	ARG	-	expression tag	UNP O66529
EC	8	ARG	-	expression tag	UNP O66529
EC	9	ARG	-	expression tag	UNP O66529
EC	10	GLU	-	expression tag	UNP O66529
EC	11	ARG	-	expression tag	UNP O66529
EC	12	ARG	-	expression tag	UNP O66529
EC	13	ALA	-	expression tag	UNP O66529
EC	14	GLU	-	expression tag	UNP O66529
EC	15	LYS	-	expression tag	UNP O66529
EC	16	GLN	-	expression tag	UNP O66529
EC	17	ALA	-	expression tag	UNP O66529
EC	18	GLN	-	expression tag	UNP O66529
EC	19	TRP	-	expression tag	UNP O66529
EC	20	LYS	-	expression tag	UNP O66529
EC	21	ALA	-	expression tag	UNP O66529
EC	22	ALA	-	expression tag	UNP O66529
EC	23	ASN	-	expression tag	UNP O66529
EC	24	ALA	-	expression tag	UNP O66529
EC	25	GLY	-	expression tag	UNP O66529
EC	26	ALA	-	expression tag	UNP O66529
EC	27	GLY	-	expression tag	UNP O66529
EC	28	ALA	-	expression tag	UNP O66529
EC	29	GLY	-	expression tag	UNP O66529
EC	30	ALA	-	expression tag	UNP O66529
EC	31	MET	-	expression tag	UNP O66529
EC	39	ASN	ILE	conflict	UNP O66529
EC	42	VAL	GLU	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
EC	58	VAL	ILE	conflict	UNP O66529
EC	59	SER	THR	conflict	UNP O66529
EC	61	ASP	GLY	conflict	UNP O66529
EC	62	ILE	VAL	conflict	UNP O66529
EC	97	TYR	PHE	conflict	UNP O66529
EC	102	GLY	-	expression tag	UNP O66529
EC	103	THR	-	expression tag	UNP O66529
EC	104	GLU	-	expression tag	UNP O66529
EC	105	HIS	-	expression tag	UNP O66529
EC	106	HIS	-	expression tag	UNP O66529
EC	107	HIS	-	expression tag	UNP O66529
EC	108	HIS	-	expression tag	UNP O66529
EC	109	LEU	-	expression tag	UNP O66529
EC	110	HIS	-	expression tag	UNP O66529
EC	111	GLY	-	expression tag	UNP O66529
EC	112	SER	-	expression tag	UNP O66529
EC	113	SER	-	expression tag	UNP O66529
ED	1	MET	-	initiating methionine	UNP O66529
ED	2	GLY	-	expression tag	UNP O66529
ED	3	ASN	-	expression tag	UNP O66529
ED	4	ALA	-	expression tag	UNP O66529
ED	5	ARG	-	expression tag	UNP O66529
ED	6	THR	-	expression tag	UNP O66529
ED	7	ARG	-	expression tag	UNP O66529
ED	8	ARG	-	expression tag	UNP O66529
ED	9	ARG	-	expression tag	UNP O66529
ED	10	GLU	-	expression tag	UNP O66529
ED	11	ARG	-	expression tag	UNP O66529
ED	12	ARG	-	expression tag	UNP O66529
ED	13	ALA	-	expression tag	UNP O66529
ED	14	GLU	-	expression tag	UNP O66529
ED	15	LYS	-	expression tag	UNP O66529
ED	16	GLN	-	expression tag	UNP O66529
ED	17	ALA	-	expression tag	UNP O66529
ED	18	GLN	-	expression tag	UNP O66529
ED	19	TRP	-	expression tag	UNP O66529
ED	20	LYS	-	expression tag	UNP O66529
ED	21	ALA	-	expression tag	UNP O66529
ED	22	ALA	-	expression tag	UNP O66529
ED	23	ASN	-	expression tag	UNP O66529
ED	24	ALA	-	expression tag	UNP O66529
ED	25	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
ED	26	ALA	-	expression tag	UNP O66529
ED	27	GLY	-	expression tag	UNP O66529
ED	28	ALA	-	expression tag	UNP O66529
ED	29	GLY	-	expression tag	UNP O66529
ED	30	ALA	-	expression tag	UNP O66529
ED	31	MET	-	expression tag	UNP O66529
ED	39	ASN	ILE	conflict	UNP O66529
ED	42	VAL	GLU	conflict	UNP O66529
ED	58	VAL	ILE	conflict	UNP O66529
ED	59	SER	THR	conflict	UNP O66529
ED	61	ASP	GLY	conflict	UNP O66529
ED	62	ILE	VAL	conflict	UNP O66529
ED	97	TYR	PHE	conflict	UNP O66529
ED	102	GLY	-	expression tag	UNP O66529
ED	103	THR	-	expression tag	UNP O66529
ED	104	GLU	-	expression tag	UNP O66529
ED	105	HIS	-	expression tag	UNP O66529
ED	106	HIS	-	expression tag	UNP O66529
ED	107	HIS	-	expression tag	UNP O66529
ED	108	HIS	-	expression tag	UNP O66529
ED	109	LEU	-	expression tag	UNP O66529
ED	110	HIS	-	expression tag	UNP O66529
ED	111	GLY	-	expression tag	UNP O66529
ED	112	SER	-	expression tag	UNP O66529
ED	113	SER	-	expression tag	UNP O66529
FA	1	MET	-	initiating methionine	UNP O66529
FA	2	GLY	-	expression tag	UNP O66529
FA	3	ASN	-	expression tag	UNP O66529
FA	4	ALA	-	expression tag	UNP O66529
FA	5	ARG	-	expression tag	UNP O66529
FA	6	THR	-	expression tag	UNP O66529
FA	7	ARG	-	expression tag	UNP O66529
FA	8	ARG	-	expression tag	UNP O66529
FA	9	ARG	-	expression tag	UNP O66529
FA	10	GLU	-	expression tag	UNP O66529
FA	11	ARG	-	expression tag	UNP O66529
FA	12	ARG	-	expression tag	UNP O66529
FA	13	ALA	-	expression tag	UNP O66529
FA	14	GLU	-	expression tag	UNP O66529
FA	15	LYS	-	expression tag	UNP O66529
FA	16	GLN	-	expression tag	UNP O66529
FA	17	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
FA	18	GLN	-	expression tag	UNP O66529
FA	19	TRP	-	expression tag	UNP O66529
FA	20	LYS	-	expression tag	UNP O66529
FA	21	ALA	-	expression tag	UNP O66529
FA	22	ALA	-	expression tag	UNP O66529
FA	23	ASN	-	expression tag	UNP O66529
FA	24	ALA	-	expression tag	UNP O66529
FA	25	GLY	-	expression tag	UNP O66529
FA	26	ALA	-	expression tag	UNP O66529
FA	27	GLY	-	expression tag	UNP O66529
FA	28	ALA	-	expression tag	UNP O66529
FA	29	GLY	-	expression tag	UNP O66529
FA	30	ALA	-	expression tag	UNP O66529
FA	31	MET	-	expression tag	UNP O66529
FA	39	ASN	ILE	conflict	UNP O66529
FA	42	VAL	GLU	conflict	UNP O66529
FA	58	VAL	ILE	conflict	UNP O66529
FA	59	SER	THR	conflict	UNP O66529
FA	61	ASP	GLY	conflict	UNP O66529
FA	62	ILE	VAL	conflict	UNP O66529
FA	97	TYR	PHE	conflict	UNP O66529
FA	102	GLY	-	expression tag	UNP O66529
FA	103	THR	-	expression tag	UNP O66529
FA	104	GLU	-	expression tag	UNP O66529
FA	105	HIS	-	expression tag	UNP O66529
FA	106	HIS	-	expression tag	UNP O66529
FA	107	HIS	-	expression tag	UNP O66529
FA	108	HIS	-	expression tag	UNP O66529
FA	109	LEU	-	expression tag	UNP O66529
FA	110	HIS	-	expression tag	UNP O66529
FA	111	GLY	-	expression tag	UNP O66529
FA	112	SER	-	expression tag	UNP O66529
FA	113	SER	-	expression tag	UNP O66529
FB	1	MET	-	initiating methionine	UNP O66529
FB	2	GLY	-	expression tag	UNP O66529
FB	3	ASN	-	expression tag	UNP O66529
FB	4	ALA	-	expression tag	UNP O66529
FB	5	ARG	-	expression tag	UNP O66529
FB	6	THR	-	expression tag	UNP O66529
FB	7	ARG	-	expression tag	UNP O66529
FB	8	ARG	-	expression tag	UNP O66529
FB	9	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
FB	10	GLU	-	expression tag	UNP O66529
FB	11	ARG	-	expression tag	UNP O66529
FB	12	ARG	-	expression tag	UNP O66529
FB	13	ALA	-	expression tag	UNP O66529
FB	14	GLU	-	expression tag	UNP O66529
FB	15	LYS	-	expression tag	UNP O66529
FB	16	GLN	-	expression tag	UNP O66529
FB	17	ALA	-	expression tag	UNP O66529
FB	18	GLN	-	expression tag	UNP O66529
FB	19	TRP	-	expression tag	UNP O66529
FB	20	LYS	-	expression tag	UNP O66529
FB	21	ALA	-	expression tag	UNP O66529
FB	22	ALA	-	expression tag	UNP O66529
FB	23	ASN	-	expression tag	UNP O66529
FB	24	ALA	-	expression tag	UNP O66529
FB	25	GLY	-	expression tag	UNP O66529
FB	26	ALA	-	expression tag	UNP O66529
FB	27	GLY	-	expression tag	UNP O66529
FB	28	ALA	-	expression tag	UNP O66529
FB	29	GLY	-	expression tag	UNP O66529
FB	30	ALA	-	expression tag	UNP O66529
FB	31	MET	-	expression tag	UNP O66529
FB	39	ASN	ILE	conflict	UNP O66529
FB	42	VAL	GLU	conflict	UNP O66529
FB	58	VAL	ILE	conflict	UNP O66529
FB	59	SER	THR	conflict	UNP O66529
FB	61	ASP	GLY	conflict	UNP O66529
FB	62	ILE	VAL	conflict	UNP O66529
FB	97	TYR	PHE	conflict	UNP O66529
FB	102	GLY	-	expression tag	UNP O66529
FB	103	THR	-	expression tag	UNP O66529
FB	104	GLU	-	expression tag	UNP O66529
FB	105	HIS	-	expression tag	UNP O66529
FB	106	HIS	-	expression tag	UNP O66529
FB	107	HIS	-	expression tag	UNP O66529
FB	108	HIS	-	expression tag	UNP O66529
FB	109	LEU	-	expression tag	UNP O66529
FB	110	HIS	-	expression tag	UNP O66529
FB	111	GLY	-	expression tag	UNP O66529
FB	112	SER	-	expression tag	UNP O66529
FB	113	SER	-	expression tag	UNP O66529
FC	1	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
FC	2	GLY	-	expression tag	UNP O66529
FC	3	ASN	-	expression tag	UNP O66529
FC	4	ALA	-	expression tag	UNP O66529
FC	5	ARG	-	expression tag	UNP O66529
FC	6	THR	-	expression tag	UNP O66529
FC	7	ARG	-	expression tag	UNP O66529
FC	8	ARG	-	expression tag	UNP O66529
FC	9	ARG	-	expression tag	UNP O66529
FC	10	GLU	-	expression tag	UNP O66529
FC	11	ARG	-	expression tag	UNP O66529
FC	12	ARG	-	expression tag	UNP O66529
FC	13	ALA	-	expression tag	UNP O66529
FC	14	GLU	-	expression tag	UNP O66529
FC	15	LYS	-	expression tag	UNP O66529
FC	16	GLN	-	expression tag	UNP O66529
FC	17	ALA	-	expression tag	UNP O66529
FC	18	GLN	-	expression tag	UNP O66529
FC	19	TRP	-	expression tag	UNP O66529
FC	20	LYS	-	expression tag	UNP O66529
FC	21	ALA	-	expression tag	UNP O66529
FC	22	ALA	-	expression tag	UNP O66529
FC	23	ASN	-	expression tag	UNP O66529
FC	24	ALA	-	expression tag	UNP O66529
FC	25	GLY	-	expression tag	UNP O66529
FC	26	ALA	-	expression tag	UNP O66529
FC	27	GLY	-	expression tag	UNP O66529
FC	28	ALA	-	expression tag	UNP O66529
FC	29	GLY	-	expression tag	UNP O66529
FC	30	ALA	-	expression tag	UNP O66529
FC	31	MET	-	expression tag	UNP O66529
FC	39	ASN	ILE	conflict	UNP O66529
FC	42	VAL	GLU	conflict	UNP O66529
FC	58	VAL	ILE	conflict	UNP O66529
FC	59	SER	THR	conflict	UNP O66529
FC	61	ASP	GLY	conflict	UNP O66529
FC	62	ILE	VAL	conflict	UNP O66529
FC	97	TYR	PHE	conflict	UNP O66529
FC	102	GLY	-	expression tag	UNP O66529
FC	103	THR	-	expression tag	UNP O66529
FC	104	GLU	-	expression tag	UNP O66529
FC	105	HIS	-	expression tag	UNP O66529
FC	106	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
FC	107	HIS	-	expression tag	UNP O66529
FC	108	HIS	-	expression tag	UNP O66529
FC	109	LEU	-	expression tag	UNP O66529
FC	110	HIS	-	expression tag	UNP O66529
FC	111	GLY	-	expression tag	UNP O66529
FC	112	SER	-	expression tag	UNP O66529
FC	113	SER	-	expression tag	UNP O66529
FD	1	MET	-	initiating methionine	UNP O66529
FD	2	GLY	-	expression tag	UNP O66529
FD	3	ASN	-	expression tag	UNP O66529
FD	4	ALA	-	expression tag	UNP O66529
FD	5	ARG	-	expression tag	UNP O66529
FD	6	THR	-	expression tag	UNP O66529
FD	7	ARG	-	expression tag	UNP O66529
FD	8	ARG	-	expression tag	UNP O66529
FD	9	ARG	-	expression tag	UNP O66529
FD	10	GLU	-	expression tag	UNP O66529
FD	11	ARG	-	expression tag	UNP O66529
FD	12	ARG	-	expression tag	UNP O66529
FD	13	ALA	-	expression tag	UNP O66529
FD	14	GLU	-	expression tag	UNP O66529
FD	15	LYS	-	expression tag	UNP O66529
FD	16	GLN	-	expression tag	UNP O66529
FD	17	ALA	-	expression tag	UNP O66529
FD	18	GLN	-	expression tag	UNP O66529
FD	19	TRP	-	expression tag	UNP O66529
FD	20	LYS	-	expression tag	UNP O66529
FD	21	ALA	-	expression tag	UNP O66529
FD	22	ALA	-	expression tag	UNP O66529
FD	23	ASN	-	expression tag	UNP O66529
FD	24	ALA	-	expression tag	UNP O66529
FD	25	GLY	-	expression tag	UNP O66529
FD	26	ALA	-	expression tag	UNP O66529
FD	27	GLY	-	expression tag	UNP O66529
FD	28	ALA	-	expression tag	UNP O66529
FD	29	GLY	-	expression tag	UNP O66529
FD	30	ALA	-	expression tag	UNP O66529
FD	31	MET	-	expression tag	UNP O66529
FD	39	ASN	ILE	conflict	UNP O66529
FD	42	VAL	GLU	conflict	UNP O66529
FD	58	VAL	ILE	conflict	UNP O66529
FD	59	SER	THR	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
FD	61	ASP	GLY	conflict	UNP O66529
FD	62	ILE	VAL	conflict	UNP O66529
FD	97	TYR	PHE	conflict	UNP O66529
FD	102	GLY	-	expression tag	UNP O66529
FD	103	THR	-	expression tag	UNP O66529
FD	104	GLU	-	expression tag	UNP O66529
FD	105	HIS	-	expression tag	UNP O66529
FD	106	HIS	-	expression tag	UNP O66529
FD	107	HIS	-	expression tag	UNP O66529
FD	108	HIS	-	expression tag	UNP O66529
FD	109	LEU	-	expression tag	UNP O66529
FD	110	HIS	-	expression tag	UNP O66529
FD	111	GLY	-	expression tag	UNP O66529
FD	112	SER	-	expression tag	UNP O66529
FD	113	SER	-	expression tag	UNP O66529
GA	1	MET	-	initiating methionine	UNP O66529
GA	2	GLY	-	expression tag	UNP O66529
GA	3	ASN	-	expression tag	UNP O66529
GA	4	ALA	-	expression tag	UNP O66529
GA	5	ARG	-	expression tag	UNP O66529
GA	6	THR	-	expression tag	UNP O66529
GA	7	ARG	-	expression tag	UNP O66529
GA	8	ARG	-	expression tag	UNP O66529
GA	9	ARG	-	expression tag	UNP O66529
GA	10	GLU	-	expression tag	UNP O66529
GA	11	ARG	-	expression tag	UNP O66529
GA	12	ARG	-	expression tag	UNP O66529
GA	13	ALA	-	expression tag	UNP O66529
GA	14	GLU	-	expression tag	UNP O66529
GA	15	LYS	-	expression tag	UNP O66529
GA	16	GLN	-	expression tag	UNP O66529
GA	17	ALA	-	expression tag	UNP O66529
GA	18	GLN	-	expression tag	UNP O66529
GA	19	TRP	-	expression tag	UNP O66529
GA	20	LYS	-	expression tag	UNP O66529
GA	21	ALA	-	expression tag	UNP O66529
GA	22	ALA	-	expression tag	UNP O66529
GA	23	ASN	-	expression tag	UNP O66529
GA	24	ALA	-	expression tag	UNP O66529
GA	25	GLY	-	expression tag	UNP O66529
GA	26	ALA	-	expression tag	UNP O66529
GA	27	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
GA	28	ALA	-	expression tag	UNP O66529
GA	29	GLY	-	expression tag	UNP O66529
GA	30	ALA	-	expression tag	UNP O66529
GA	31	MET	-	expression tag	UNP O66529
GA	39	ASN	ILE	conflict	UNP O66529
GA	42	VAL	GLU	conflict	UNP O66529
GA	58	VAL	ILE	conflict	UNP O66529
GA	59	SER	THR	conflict	UNP O66529
GA	61	ASP	GLY	conflict	UNP O66529
GA	62	ILE	VAL	conflict	UNP O66529
GA	97	TYR	PHE	conflict	UNP O66529
GA	102	GLY	-	expression tag	UNP O66529
GA	103	THR	-	expression tag	UNP O66529
GA	104	GLU	-	expression tag	UNP O66529
GA	105	HIS	-	expression tag	UNP O66529
GA	106	HIS	-	expression tag	UNP O66529
GA	107	HIS	-	expression tag	UNP O66529
GA	108	HIS	-	expression tag	UNP O66529
GA	109	LEU	-	expression tag	UNP O66529
GA	110	HIS	-	expression tag	UNP O66529
GA	111	GLY	-	expression tag	UNP O66529
GA	112	SER	-	expression tag	UNP O66529
GA	113	SER	-	expression tag	UNP O66529
GB	1	MET	-	initiating methionine	UNP O66529
GB	2	GLY	-	expression tag	UNP O66529
GB	3	ASN	-	expression tag	UNP O66529
GB	4	ALA	-	expression tag	UNP O66529
GB	5	ARG	-	expression tag	UNP O66529
GB	6	THR	-	expression tag	UNP O66529
GB	7	ARG	-	expression tag	UNP O66529
GB	8	ARG	-	expression tag	UNP O66529
GB	9	ARG	-	expression tag	UNP O66529
GB	10	GLU	-	expression tag	UNP O66529
GB	11	ARG	-	expression tag	UNP O66529
GB	12	ARG	-	expression tag	UNP O66529
GB	13	ALA	-	expression tag	UNP O66529
GB	14	GLU	-	expression tag	UNP O66529
GB	15	LYS	-	expression tag	UNP O66529
GB	16	GLN	-	expression tag	UNP O66529
GB	17	ALA	-	expression tag	UNP O66529
GB	18	GLN	-	expression tag	UNP O66529
GB	19	TRP	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
GB	20	LYS	-	expression tag	UNP O66529
GB	21	ALA	-	expression tag	UNP O66529
GB	22	ALA	-	expression tag	UNP O66529
GB	23	ASN	-	expression tag	UNP O66529
GB	24	ALA	-	expression tag	UNP O66529
GB	25	GLY	-	expression tag	UNP O66529
GB	26	ALA	-	expression tag	UNP O66529
GB	27	GLY	-	expression tag	UNP O66529
GB	28	ALA	-	expression tag	UNP O66529
GB	29	GLY	-	expression tag	UNP O66529
GB	30	ALA	-	expression tag	UNP O66529
GB	31	MET	-	expression tag	UNP O66529
GB	39	ASN	ILE	conflict	UNP O66529
GB	42	VAL	GLU	conflict	UNP O66529
GB	58	VAL	ILE	conflict	UNP O66529
GB	59	SER	THR	conflict	UNP O66529
GB	61	ASP	GLY	conflict	UNP O66529
GB	62	ILE	VAL	conflict	UNP O66529
GB	97	TYR	PHE	conflict	UNP O66529
GB	102	GLY	-	expression tag	UNP O66529
GB	103	THR	-	expression tag	UNP O66529
GB	104	GLU	-	expression tag	UNP O66529
GB	105	HIS	-	expression tag	UNP O66529
GB	106	HIS	-	expression tag	UNP O66529
GB	107	HIS	-	expression tag	UNP O66529
GB	108	HIS	-	expression tag	UNP O66529
GB	109	LEU	-	expression tag	UNP O66529
GB	110	HIS	-	expression tag	UNP O66529
GB	111	GLY	-	expression tag	UNP O66529
GB	112	SER	-	expression tag	UNP O66529
GB	113	SER	-	expression tag	UNP O66529
GC	1	MET	-	initiating methionine	UNP O66529
GC	2	GLY	-	expression tag	UNP O66529
GC	3	ASN	-	expression tag	UNP O66529
GC	4	ALA	-	expression tag	UNP O66529
GC	5	ARG	-	expression tag	UNP O66529
GC	6	THR	-	expression tag	UNP O66529
GC	7	ARG	-	expression tag	UNP O66529
GC	8	ARG	-	expression tag	UNP O66529
GC	9	ARG	-	expression tag	UNP O66529
GC	10	GLU	-	expression tag	UNP O66529
GC	11	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
GC	12	ARG	-	expression tag	UNP O66529
GC	13	ALA	-	expression tag	UNP O66529
GC	14	GLU	-	expression tag	UNP O66529
GC	15	LYS	-	expression tag	UNP O66529
GC	16	GLN	-	expression tag	UNP O66529
GC	17	ALA	-	expression tag	UNP O66529
GC	18	GLN	-	expression tag	UNP O66529
GC	19	TRP	-	expression tag	UNP O66529
GC	20	LYS	-	expression tag	UNP O66529
GC	21	ALA	-	expression tag	UNP O66529
GC	22	ALA	-	expression tag	UNP O66529
GC	23	ASN	-	expression tag	UNP O66529
GC	24	ALA	-	expression tag	UNP O66529
GC	25	GLY	-	expression tag	UNP O66529
GC	26	ALA	-	expression tag	UNP O66529
GC	27	GLY	-	expression tag	UNP O66529
GC	28	ALA	-	expression tag	UNP O66529
GC	29	GLY	-	expression tag	UNP O66529
GC	30	ALA	-	expression tag	UNP O66529
GC	31	MET	-	expression tag	UNP O66529
GC	39	ASN	ILE	conflict	UNP O66529
GC	42	VAL	GLU	conflict	UNP O66529
GC	58	VAL	ILE	conflict	UNP O66529
GC	59	SER	THR	conflict	UNP O66529
GC	61	ASP	GLY	conflict	UNP O66529
GC	62	ILE	VAL	conflict	UNP O66529
GC	97	TYR	PHE	conflict	UNP O66529
GC	102	GLY	-	expression tag	UNP O66529
GC	103	THR	-	expression tag	UNP O66529
GC	104	GLU	-	expression tag	UNP O66529
GC	105	HIS	-	expression tag	UNP O66529
GC	106	HIS	-	expression tag	UNP O66529
GC	107	HIS	-	expression tag	UNP O66529
GC	108	HIS	-	expression tag	UNP O66529
GC	109	LEU	-	expression tag	UNP O66529
GC	110	HIS	-	expression tag	UNP O66529
GC	111	GLY	-	expression tag	UNP O66529
GC	112	SER	-	expression tag	UNP O66529
GC	113	SER	-	expression tag	UNP O66529
GD	1	MET	-	initiating methionine	UNP O66529
GD	2	GLY	-	expression tag	UNP O66529
GD	3	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
GD	4	ALA	-	expression tag	UNP O66529
GD	5	ARG	-	expression tag	UNP O66529
GD	6	THR	-	expression tag	UNP O66529
GD	7	ARG	-	expression tag	UNP O66529
GD	8	ARG	-	expression tag	UNP O66529
GD	9	ARG	-	expression tag	UNP O66529
GD	10	GLU	-	expression tag	UNP O66529
GD	11	ARG	-	expression tag	UNP O66529
GD	12	ARG	-	expression tag	UNP O66529
GD	13	ALA	-	expression tag	UNP O66529
GD	14	GLU	-	expression tag	UNP O66529
GD	15	LYS	-	expression tag	UNP O66529
GD	16	GLN	-	expression tag	UNP O66529
GD	17	ALA	-	expression tag	UNP O66529
GD	18	GLN	-	expression tag	UNP O66529
GD	19	TRP	-	expression tag	UNP O66529
GD	20	LYS	-	expression tag	UNP O66529
GD	21	ALA	-	expression tag	UNP O66529
GD	22	ALA	-	expression tag	UNP O66529
GD	23	ASN	-	expression tag	UNP O66529
GD	24	ALA	-	expression tag	UNP O66529
GD	25	GLY	-	expression tag	UNP O66529
GD	26	ALA	-	expression tag	UNP O66529
GD	27	GLY	-	expression tag	UNP O66529
GD	28	ALA	-	expression tag	UNP O66529
GD	29	GLY	-	expression tag	UNP O66529
GD	30	ALA	-	expression tag	UNP O66529
GD	31	MET	-	expression tag	UNP O66529
GD	39	ASN	ILE	conflict	UNP O66529
GD	42	VAL	GLU	conflict	UNP O66529
GD	58	VAL	ILE	conflict	UNP O66529
GD	59	SER	THR	conflict	UNP O66529
GD	61	ASP	GLY	conflict	UNP O66529
GD	62	ILE	VAL	conflict	UNP O66529
GD	97	TYR	PHE	conflict	UNP O66529
GD	102	GLY	-	expression tag	UNP O66529
GD	103	THR	-	expression tag	UNP O66529
GD	104	GLU	-	expression tag	UNP O66529
GD	105	HIS	-	expression tag	UNP O66529
GD	106	HIS	-	expression tag	UNP O66529
GD	107	HIS	-	expression tag	UNP O66529
GD	108	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
GD	109	LEU	-	expression tag	UNP O66529
GD	110	HIS	-	expression tag	UNP O66529
GD	111	GLY	-	expression tag	UNP O66529
GD	112	SER	-	expression tag	UNP O66529
GD	113	SER	-	expression tag	UNP O66529
HA	1	MET	-	initiating methionine	UNP O66529
HA	2	GLY	-	expression tag	UNP O66529
HA	3	ASN	-	expression tag	UNP O66529
HA	4	ALA	-	expression tag	UNP O66529
HA	5	ARG	-	expression tag	UNP O66529
HA	6	THR	-	expression tag	UNP O66529
HA	7	ARG	-	expression tag	UNP O66529
HA	8	ARG	-	expression tag	UNP O66529
HA	9	ARG	-	expression tag	UNP O66529
HA	10	GLU	-	expression tag	UNP O66529
HA	11	ARG	-	expression tag	UNP O66529
HA	12	ARG	-	expression tag	UNP O66529
HA	13	ALA	-	expression tag	UNP O66529
HA	14	GLU	-	expression tag	UNP O66529
HA	15	LYS	-	expression tag	UNP O66529
HA	16	GLN	-	expression tag	UNP O66529
HA	17	ALA	-	expression tag	UNP O66529
HA	18	GLN	-	expression tag	UNP O66529
HA	19	TRP	-	expression tag	UNP O66529
HA	20	LYS	-	expression tag	UNP O66529
HA	21	ALA	-	expression tag	UNP O66529
HA	22	ALA	-	expression tag	UNP O66529
HA	23	ASN	-	expression tag	UNP O66529
HA	24	ALA	-	expression tag	UNP O66529
HA	25	GLY	-	expression tag	UNP O66529
HA	26	ALA	-	expression tag	UNP O66529
HA	27	GLY	-	expression tag	UNP O66529
HA	28	ALA	-	expression tag	UNP O66529
HA	29	GLY	-	expression tag	UNP O66529
HA	30	ALA	-	expression tag	UNP O66529
HA	31	MET	-	expression tag	UNP O66529
HA	39	ASN	ILE	conflict	UNP O66529
HA	42	VAL	GLU	conflict	UNP O66529
HA	58	VAL	ILE	conflict	UNP O66529
HA	59	SER	THR	conflict	UNP O66529
HA	61	ASP	GLY	conflict	UNP O66529
HA	62	ILE	VAL	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
HA	97	TYR	PHE	conflict	UNP O66529
HA	102	GLY	-	expression tag	UNP O66529
HA	103	THR	-	expression tag	UNP O66529
HA	104	GLU	-	expression tag	UNP O66529
HA	105	HIS	-	expression tag	UNP O66529
HA	106	HIS	-	expression tag	UNP O66529
HA	107	HIS	-	expression tag	UNP O66529
HA	108	HIS	-	expression tag	UNP O66529
HA	109	LEU	-	expression tag	UNP O66529
HA	110	HIS	-	expression tag	UNP O66529
HA	111	GLY	-	expression tag	UNP O66529
HA	112	SER	-	expression tag	UNP O66529
HA	113	SER	-	expression tag	UNP O66529
HB	1	MET	-	initiating methionine	UNP O66529
HB	2	GLY	-	expression tag	UNP O66529
HB	3	ASN	-	expression tag	UNP O66529
HB	4	ALA	-	expression tag	UNP O66529
HB	5	ARG	-	expression tag	UNP O66529
HB	6	THR	-	expression tag	UNP O66529
HB	7	ARG	-	expression tag	UNP O66529
HB	8	ARG	-	expression tag	UNP O66529
HB	9	ARG	-	expression tag	UNP O66529
HB	10	GLU	-	expression tag	UNP O66529
HB	11	ARG	-	expression tag	UNP O66529
HB	12	ARG	-	expression tag	UNP O66529
HB	13	ALA	-	expression tag	UNP O66529
HB	14	GLU	-	expression tag	UNP O66529
HB	15	LYS	-	expression tag	UNP O66529
HB	16	GLN	-	expression tag	UNP O66529
HB	17	ALA	-	expression tag	UNP O66529
HB	18	GLN	-	expression tag	UNP O66529
HB	19	TRP	-	expression tag	UNP O66529
HB	20	LYS	-	expression tag	UNP O66529
HB	21	ALA	-	expression tag	UNP O66529
HB	22	ALA	-	expression tag	UNP O66529
HB	23	ASN	-	expression tag	UNP O66529
HB	24	ALA	-	expression tag	UNP O66529
HB	25	GLY	-	expression tag	UNP O66529
HB	26	ALA	-	expression tag	UNP O66529
HB	27	GLY	-	expression tag	UNP O66529
HB	28	ALA	-	expression tag	UNP O66529
HB	29	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
HB	30	ALA	-	expression tag	UNP O66529
HB	31	MET	-	expression tag	UNP O66529
HB	39	ASN	ILE	conflict	UNP O66529
HB	42	VAL	GLU	conflict	UNP O66529
HB	58	VAL	ILE	conflict	UNP O66529
HB	59	SER	THR	conflict	UNP O66529
HB	61	ASP	GLY	conflict	UNP O66529
HB	62	ILE	VAL	conflict	UNP O66529
HB	97	TYR	PHE	conflict	UNP O66529
HB	102	GLY	-	expression tag	UNP O66529
HB	103	THR	-	expression tag	UNP O66529
HB	104	GLU	-	expression tag	UNP O66529
HB	105	HIS	-	expression tag	UNP O66529
HB	106	HIS	-	expression tag	UNP O66529
HB	107	HIS	-	expression tag	UNP O66529
HB	108	HIS	-	expression tag	UNP O66529
HB	109	LEU	-	expression tag	UNP O66529
HB	110	HIS	-	expression tag	UNP O66529
HB	111	GLY	-	expression tag	UNP O66529
HB	112	SER	-	expression tag	UNP O66529
HB	113	SER	-	expression tag	UNP O66529
HC	1	MET	-	initiating methionine	UNP O66529
HC	2	GLY	-	expression tag	UNP O66529
HC	3	ASN	-	expression tag	UNP O66529
HC	4	ALA	-	expression tag	UNP O66529
HC	5	ARG	-	expression tag	UNP O66529
HC	6	THR	-	expression tag	UNP O66529
HC	7	ARG	-	expression tag	UNP O66529
HC	8	ARG	-	expression tag	UNP O66529
HC	9	ARG	-	expression tag	UNP O66529
HC	10	GLU	-	expression tag	UNP O66529
HC	11	ARG	-	expression tag	UNP O66529
HC	12	ARG	-	expression tag	UNP O66529
HC	13	ALA	-	expression tag	UNP O66529
HC	14	GLU	-	expression tag	UNP O66529
HC	15	LYS	-	expression tag	UNP O66529
HC	16	GLN	-	expression tag	UNP O66529
HC	17	ALA	-	expression tag	UNP O66529
HC	18	GLN	-	expression tag	UNP O66529
HC	19	TRP	-	expression tag	UNP O66529
HC	20	LYS	-	expression tag	UNP O66529
HC	21	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
HC	22	ALA	-	expression tag	UNP O66529
HC	23	ASN	-	expression tag	UNP O66529
HC	24	ALA	-	expression tag	UNP O66529
HC	25	GLY	-	expression tag	UNP O66529
HC	26	ALA	-	expression tag	UNP O66529
HC	27	GLY	-	expression tag	UNP O66529
HC	28	ALA	-	expression tag	UNP O66529
HC	29	GLY	-	expression tag	UNP O66529
HC	30	ALA	-	expression tag	UNP O66529
HC	31	MET	-	expression tag	UNP O66529
HC	39	ASN	ILE	conflict	UNP O66529
HC	42	VAL	GLU	conflict	UNP O66529
HC	58	VAL	ILE	conflict	UNP O66529
HC	59	SER	THR	conflict	UNP O66529
HC	61	ASP	GLY	conflict	UNP O66529
HC	62	ILE	VAL	conflict	UNP O66529
HC	97	TYR	PHE	conflict	UNP O66529
HC	102	GLY	-	expression tag	UNP O66529
HC	103	THR	-	expression tag	UNP O66529
HC	104	GLU	-	expression tag	UNP O66529
HC	105	HIS	-	expression tag	UNP O66529
HC	106	HIS	-	expression tag	UNP O66529
HC	107	HIS	-	expression tag	UNP O66529
HC	108	HIS	-	expression tag	UNP O66529
HC	109	LEU	-	expression tag	UNP O66529
HC	110	HIS	-	expression tag	UNP O66529
HC	111	GLY	-	expression tag	UNP O66529
HC	112	SER	-	expression tag	UNP O66529
HC	113	SER	-	expression tag	UNP O66529
HD	1	MET	-	initiating methionine	UNP O66529
HD	2	GLY	-	expression tag	UNP O66529
HD	3	ASN	-	expression tag	UNP O66529
HD	4	ALA	-	expression tag	UNP O66529
HD	5	ARG	-	expression tag	UNP O66529
HD	6	THR	-	expression tag	UNP O66529
HD	7	ARG	-	expression tag	UNP O66529
HD	8	ARG	-	expression tag	UNP O66529
HD	9	ARG	-	expression tag	UNP O66529
HD	10	GLU	-	expression tag	UNP O66529
HD	11	ARG	-	expression tag	UNP O66529
HD	12	ARG	-	expression tag	UNP O66529
HD	13	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
HD	14	GLU	-	expression tag	UNP O66529
HD	15	LYS	-	expression tag	UNP O66529
HD	16	GLN	-	expression tag	UNP O66529
HD	17	ALA	-	expression tag	UNP O66529
HD	18	GLN	-	expression tag	UNP O66529
HD	19	TRP	-	expression tag	UNP O66529
HD	20	LYS	-	expression tag	UNP O66529
HD	21	ALA	-	expression tag	UNP O66529
HD	22	ALA	-	expression tag	UNP O66529
HD	23	ASN	-	expression tag	UNP O66529
HD	24	ALA	-	expression tag	UNP O66529
HD	25	GLY	-	expression tag	UNP O66529
HD	26	ALA	-	expression tag	UNP O66529
HD	27	GLY	-	expression tag	UNP O66529
HD	28	ALA	-	expression tag	UNP O66529
HD	29	GLY	-	expression tag	UNP O66529
HD	30	ALA	-	expression tag	UNP O66529
HD	31	MET	-	expression tag	UNP O66529
HD	39	ASN	ILE	conflict	UNP O66529
HD	42	VAL	GLU	conflict	UNP O66529
HD	58	VAL	ILE	conflict	UNP O66529
HD	59	SER	THR	conflict	UNP O66529
HD	61	ASP	GLY	conflict	UNP O66529
HD	62	ILE	VAL	conflict	UNP O66529
HD	97	TYR	PHE	conflict	UNP O66529
HD	102	GLY	-	expression tag	UNP O66529
HD	103	THR	-	expression tag	UNP O66529
HD	104	GLU	-	expression tag	UNP O66529
HD	105	HIS	-	expression tag	UNP O66529
HD	106	HIS	-	expression tag	UNP O66529
HD	107	HIS	-	expression tag	UNP O66529
HD	108	HIS	-	expression tag	UNP O66529
HD	109	LEU	-	expression tag	UNP O66529
HD	110	HIS	-	expression tag	UNP O66529
HD	111	GLY	-	expression tag	UNP O66529
HD	112	SER	-	expression tag	UNP O66529
HD	113	SER	-	expression tag	UNP O66529
IA	1	MET	-	initiating methionine	UNP O66529
IA	2	GLY	-	expression tag	UNP O66529
IA	3	ASN	-	expression tag	UNP O66529
IA	4	ALA	-	expression tag	UNP O66529
IA	5	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
IA	6	THR	-	expression tag	UNP O66529
IA	7	ARG	-	expression tag	UNP O66529
IA	8	ARG	-	expression tag	UNP O66529
IA	9	ARG	-	expression tag	UNP O66529
IA	10	GLU	-	expression tag	UNP O66529
IA	11	ARG	-	expression tag	UNP O66529
IA	12	ARG	-	expression tag	UNP O66529
IA	13	ALA	-	expression tag	UNP O66529
IA	14	GLU	-	expression tag	UNP O66529
IA	15	LYS	-	expression tag	UNP O66529
IA	16	GLN	-	expression tag	UNP O66529
IA	17	ALA	-	expression tag	UNP O66529
IA	18	GLN	-	expression tag	UNP O66529
IA	19	TRP	-	expression tag	UNP O66529
IA	20	LYS	-	expression tag	UNP O66529
IA	21	ALA	-	expression tag	UNP O66529
IA	22	ALA	-	expression tag	UNP O66529
IA	23	ASN	-	expression tag	UNP O66529
IA	24	ALA	-	expression tag	UNP O66529
IA	25	GLY	-	expression tag	UNP O66529
IA	26	ALA	-	expression tag	UNP O66529
IA	27	GLY	-	expression tag	UNP O66529
IA	28	ALA	-	expression tag	UNP O66529
IA	29	GLY	-	expression tag	UNP O66529
IA	30	ALA	-	expression tag	UNP O66529
IA	31	MET	-	expression tag	UNP O66529
IA	39	ASN	ILE	conflict	UNP O66529
IA	42	VAL	GLU	conflict	UNP O66529
IA	58	VAL	ILE	conflict	UNP O66529
IA	59	SER	THR	conflict	UNP O66529
IA	61	ASP	GLY	conflict	UNP O66529
IA	62	ILE	VAL	conflict	UNP O66529
IA	97	TYR	PHE	conflict	UNP O66529
IA	102	GLY	-	expression tag	UNP O66529
IA	103	THR	-	expression tag	UNP O66529
IA	104	GLU	-	expression tag	UNP O66529
IA	105	HIS	-	expression tag	UNP O66529
IA	106	HIS	-	expression tag	UNP O66529
IA	107	HIS	-	expression tag	UNP O66529
IA	108	HIS	-	expression tag	UNP O66529
IA	109	LEU	-	expression tag	UNP O66529
IA	110	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
IA	111	GLY	-	expression tag	UNP O66529
IA	112	SER	-	expression tag	UNP O66529
IA	113	SER	-	expression tag	UNP O66529
IB	1	MET	-	initiating methionine	UNP O66529
IB	2	GLY	-	expression tag	UNP O66529
IB	3	ASN	-	expression tag	UNP O66529
IB	4	ALA	-	expression tag	UNP O66529
IB	5	ARG	-	expression tag	UNP O66529
IB	6	THR	-	expression tag	UNP O66529
IB	7	ARG	-	expression tag	UNP O66529
IB	8	ARG	-	expression tag	UNP O66529
IB	9	ARG	-	expression tag	UNP O66529
IB	10	GLU	-	expression tag	UNP O66529
IB	11	ARG	-	expression tag	UNP O66529
IB	12	ARG	-	expression tag	UNP O66529
IB	13	ALA	-	expression tag	UNP O66529
IB	14	GLU	-	expression tag	UNP O66529
IB	15	LYS	-	expression tag	UNP O66529
IB	16	GLN	-	expression tag	UNP O66529
IB	17	ALA	-	expression tag	UNP O66529
IB	18	GLN	-	expression tag	UNP O66529
IB	19	TRP	-	expression tag	UNP O66529
IB	20	LYS	-	expression tag	UNP O66529
IB	21	ALA	-	expression tag	UNP O66529
IB	22	ALA	-	expression tag	UNP O66529
IB	23	ASN	-	expression tag	UNP O66529
IB	24	ALA	-	expression tag	UNP O66529
IB	25	GLY	-	expression tag	UNP O66529
IB	26	ALA	-	expression tag	UNP O66529
IB	27	GLY	-	expression tag	UNP O66529
IB	28	ALA	-	expression tag	UNP O66529
IB	29	GLY	-	expression tag	UNP O66529
IB	30	ALA	-	expression tag	UNP O66529
IB	31	MET	-	expression tag	UNP O66529
IB	39	ASN	ILE	conflict	UNP O66529
IB	42	VAL	GLU	conflict	UNP O66529
IB	58	VAL	ILE	conflict	UNP O66529
IB	59	SER	THR	conflict	UNP O66529
IB	61	ASP	GLY	conflict	UNP O66529
IB	62	ILE	VAL	conflict	UNP O66529
IB	97	TYR	PHE	conflict	UNP O66529
IB	102	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
IB	103	THR	-	expression tag	UNP O66529
IB	104	GLU	-	expression tag	UNP O66529
IB	105	HIS	-	expression tag	UNP O66529
IB	106	HIS	-	expression tag	UNP O66529
IB	107	HIS	-	expression tag	UNP O66529
IB	108	HIS	-	expression tag	UNP O66529
IB	109	LEU	-	expression tag	UNP O66529
IB	110	HIS	-	expression tag	UNP O66529
IB	111	GLY	-	expression tag	UNP O66529
IB	112	SER	-	expression tag	UNP O66529
IB	113	SER	-	expression tag	UNP O66529
IC	1	MET	-	initiating methionine	UNP O66529
IC	2	GLY	-	expression tag	UNP O66529
IC	3	ASN	-	expression tag	UNP O66529
IC	4	ALA	-	expression tag	UNP O66529
IC	5	ARG	-	expression tag	UNP O66529
IC	6	THR	-	expression tag	UNP O66529
IC	7	ARG	-	expression tag	UNP O66529
IC	8	ARG	-	expression tag	UNP O66529
IC	9	ARG	-	expression tag	UNP O66529
IC	10	GLU	-	expression tag	UNP O66529
IC	11	ARG	-	expression tag	UNP O66529
IC	12	ARG	-	expression tag	UNP O66529
IC	13	ALA	-	expression tag	UNP O66529
IC	14	GLU	-	expression tag	UNP O66529
IC	15	LYS	-	expression tag	UNP O66529
IC	16	GLN	-	expression tag	UNP O66529
IC	17	ALA	-	expression tag	UNP O66529
IC	18	GLN	-	expression tag	UNP O66529
IC	19	TRP	-	expression tag	UNP O66529
IC	20	LYS	-	expression tag	UNP O66529
IC	21	ALA	-	expression tag	UNP O66529
IC	22	ALA	-	expression tag	UNP O66529
IC	23	ASN	-	expression tag	UNP O66529
IC	24	ALA	-	expression tag	UNP O66529
IC	25	GLY	-	expression tag	UNP O66529
IC	26	ALA	-	expression tag	UNP O66529
IC	27	GLY	-	expression tag	UNP O66529
IC	28	ALA	-	expression tag	UNP O66529
IC	29	GLY	-	expression tag	UNP O66529
IC	30	ALA	-	expression tag	UNP O66529
IC	31	MET	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
IC	39	ASN	ILE	conflict	UNP O66529
IC	42	VAL	GLU	conflict	UNP O66529
IC	58	VAL	ILE	conflict	UNP O66529
IC	59	SER	THR	conflict	UNP O66529
IC	61	ASP	GLY	conflict	UNP O66529
IC	62	ILE	VAL	conflict	UNP O66529
IC	97	TYR	PHE	conflict	UNP O66529
IC	102	GLY	-	expression tag	UNP O66529
IC	103	THR	-	expression tag	UNP O66529
IC	104	GLU	-	expression tag	UNP O66529
IC	105	HIS	-	expression tag	UNP O66529
IC	106	HIS	-	expression tag	UNP O66529
IC	107	HIS	-	expression tag	UNP O66529
IC	108	HIS	-	expression tag	UNP O66529
IC	109	LEU	-	expression tag	UNP O66529
IC	110	HIS	-	expression tag	UNP O66529
IC	111	GLY	-	expression tag	UNP O66529
IC	112	SER	-	expression tag	UNP O66529
IC	113	SER	-	expression tag	UNP O66529
ID	1	MET	-	initiating methionine	UNP O66529
ID	2	GLY	-	expression tag	UNP O66529
ID	3	ASN	-	expression tag	UNP O66529
ID	4	ALA	-	expression tag	UNP O66529
ID	5	ARG	-	expression tag	UNP O66529
ID	6	THR	-	expression tag	UNP O66529
ID	7	ARG	-	expression tag	UNP O66529
ID	8	ARG	-	expression tag	UNP O66529
ID	9	ARG	-	expression tag	UNP O66529
ID	10	GLU	-	expression tag	UNP O66529
ID	11	ARG	-	expression tag	UNP O66529
ID	12	ARG	-	expression tag	UNP O66529
ID	13	ALA	-	expression tag	UNP O66529
ID	14	GLU	-	expression tag	UNP O66529
ID	15	LYS	-	expression tag	UNP O66529
ID	16	GLN	-	expression tag	UNP O66529
ID	17	ALA	-	expression tag	UNP O66529
ID	18	GLN	-	expression tag	UNP O66529
ID	19	TRP	-	expression tag	UNP O66529
ID	20	LYS	-	expression tag	UNP O66529
ID	21	ALA	-	expression tag	UNP O66529
ID	22	ALA	-	expression tag	UNP O66529
ID	23	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
ID	24	ALA	-	expression tag	UNP O66529
ID	25	GLY	-	expression tag	UNP O66529
ID	26	ALA	-	expression tag	UNP O66529
ID	27	GLY	-	expression tag	UNP O66529
ID	28	ALA	-	expression tag	UNP O66529
ID	29	GLY	-	expression tag	UNP O66529
ID	30	ALA	-	expression tag	UNP O66529
ID	31	MET	-	expression tag	UNP O66529
ID	39	ASN	ILE	conflict	UNP O66529
ID	42	VAL	GLU	conflict	UNP O66529
ID	58	VAL	ILE	conflict	UNP O66529
ID	59	SER	THR	conflict	UNP O66529
ID	61	ASP	GLY	conflict	UNP O66529
ID	62	ILE	VAL	conflict	UNP O66529
ID	97	TYR	PHE	conflict	UNP O66529
ID	102	GLY	-	expression tag	UNP O66529
ID	103	THR	-	expression tag	UNP O66529
ID	104	GLU	-	expression tag	UNP O66529
ID	105	HIS	-	expression tag	UNP O66529
ID	106	HIS	-	expression tag	UNP O66529
ID	107	HIS	-	expression tag	UNP O66529
ID	108	HIS	-	expression tag	UNP O66529
ID	109	LEU	-	expression tag	UNP O66529
ID	110	HIS	-	expression tag	UNP O66529
ID	111	GLY	-	expression tag	UNP O66529
ID	112	SER	-	expression tag	UNP O66529
ID	113	SER	-	expression tag	UNP O66529
JA	1	MET	-	initiating methionine	UNP O66529
JA	2	GLY	-	expression tag	UNP O66529
JA	3	ASN	-	expression tag	UNP O66529
JA	4	ALA	-	expression tag	UNP O66529
JA	5	ARG	-	expression tag	UNP O66529
JA	6	THR	-	expression tag	UNP O66529
JA	7	ARG	-	expression tag	UNP O66529
JA	8	ARG	-	expression tag	UNP O66529
JA	9	ARG	-	expression tag	UNP O66529
JA	10	GLU	-	expression tag	UNP O66529
JA	11	ARG	-	expression tag	UNP O66529
JA	12	ARG	-	expression tag	UNP O66529
JA	13	ALA	-	expression tag	UNP O66529
JA	14	GLU	-	expression tag	UNP O66529
JA	15	LYS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
JA	16	GLN	-	expression tag	UNP O66529
JA	17	ALA	-	expression tag	UNP O66529
JA	18	GLN	-	expression tag	UNP O66529
JA	19	TRP	-	expression tag	UNP O66529
JA	20	LYS	-	expression tag	UNP O66529
JA	21	ALA	-	expression tag	UNP O66529
JA	22	ALA	-	expression tag	UNP O66529
JA	23	ASN	-	expression tag	UNP O66529
JA	24	ALA	-	expression tag	UNP O66529
JA	25	GLY	-	expression tag	UNP O66529
JA	26	ALA	-	expression tag	UNP O66529
JA	27	GLY	-	expression tag	UNP O66529
JA	28	ALA	-	expression tag	UNP O66529
JA	29	GLY	-	expression tag	UNP O66529
JA	30	ALA	-	expression tag	UNP O66529
JA	31	MET	-	expression tag	UNP O66529
JA	39	ASN	ILE	conflict	UNP O66529
JA	42	VAL	GLU	conflict	UNP O66529
JA	58	VAL	ILE	conflict	UNP O66529
JA	59	SER	THR	conflict	UNP O66529
JA	61	ASP	GLY	conflict	UNP O66529
JA	62	ILE	VAL	conflict	UNP O66529
JA	97	TYR	PHE	conflict	UNP O66529
JA	102	GLY	-	expression tag	UNP O66529
JA	103	THR	-	expression tag	UNP O66529
JA	104	GLU	-	expression tag	UNP O66529
JA	105	HIS	-	expression tag	UNP O66529
JA	106	HIS	-	expression tag	UNP O66529
JA	107	HIS	-	expression tag	UNP O66529
JA	108	HIS	-	expression tag	UNP O66529
JA	109	LEU	-	expression tag	UNP O66529
JA	110	HIS	-	expression tag	UNP O66529
JA	111	GLY	-	expression tag	UNP O66529
JA	112	SER	-	expression tag	UNP O66529
JA	113	SER	-	expression tag	UNP O66529
JB	1	MET	-	initiating methionine	UNP O66529
JB	2	GLY	-	expression tag	UNP O66529
JB	3	ASN	-	expression tag	UNP O66529
JB	4	ALA	-	expression tag	UNP O66529
JB	5	ARG	-	expression tag	UNP O66529
JB	6	THR	-	expression tag	UNP O66529
JB	7	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
JB	8	ARG	-	expression tag	UNP O66529
JB	9	ARG	-	expression tag	UNP O66529
JB	10	GLU	-	expression tag	UNP O66529
JB	11	ARG	-	expression tag	UNP O66529
JB	12	ARG	-	expression tag	UNP O66529
JB	13	ALA	-	expression tag	UNP O66529
JB	14	GLU	-	expression tag	UNP O66529
JB	15	LYS	-	expression tag	UNP O66529
JB	16	GLN	-	expression tag	UNP O66529
JB	17	ALA	-	expression tag	UNP O66529
JB	18	GLN	-	expression tag	UNP O66529
JB	19	TRP	-	expression tag	UNP O66529
JB	20	LYS	-	expression tag	UNP O66529
JB	21	ALA	-	expression tag	UNP O66529
JB	22	ALA	-	expression tag	UNP O66529
JB	23	ASN	-	expression tag	UNP O66529
JB	24	ALA	-	expression tag	UNP O66529
JB	25	GLY	-	expression tag	UNP O66529
JB	26	ALA	-	expression tag	UNP O66529
JB	27	GLY	-	expression tag	UNP O66529
JB	28	ALA	-	expression tag	UNP O66529
JB	29	GLY	-	expression tag	UNP O66529
JB	30	ALA	-	expression tag	UNP O66529
JB	31	MET	-	expression tag	UNP O66529
JB	39	ASN	ILE	conflict	UNP O66529
JB	42	VAL	GLU	conflict	UNP O66529
JB	58	VAL	ILE	conflict	UNP O66529
JB	59	SER	THR	conflict	UNP O66529
JB	61	ASP	GLY	conflict	UNP O66529
JB	62	ILE	VAL	conflict	UNP O66529
JB	97	TYR	PHE	conflict	UNP O66529
JB	102	GLY	-	expression tag	UNP O66529
JB	103	THR	-	expression tag	UNP O66529
JB	104	GLU	-	expression tag	UNP O66529
JB	105	HIS	-	expression tag	UNP O66529
JB	106	HIS	-	expression tag	UNP O66529
JB	107	HIS	-	expression tag	UNP O66529
JB	108	HIS	-	expression tag	UNP O66529
JB	109	LEU	-	expression tag	UNP O66529
JB	110	HIS	-	expression tag	UNP O66529
JB	111	GLY	-	expression tag	UNP O66529
JB	112	SER	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
JB	113	SER	-	expression tag	UNP O66529
JC	1	MET	-	initiating methionine	UNP O66529
JC	2	GLY	-	expression tag	UNP O66529
JC	3	ASN	-	expression tag	UNP O66529
JC	4	ALA	-	expression tag	UNP O66529
JC	5	ARG	-	expression tag	UNP O66529
JC	6	THR	-	expression tag	UNP O66529
JC	7	ARG	-	expression tag	UNP O66529
JC	8	ARG	-	expression tag	UNP O66529
JC	9	ARG	-	expression tag	UNP O66529
JC	10	GLU	-	expression tag	UNP O66529
JC	11	ARG	-	expression tag	UNP O66529
JC	12	ARG	-	expression tag	UNP O66529
JC	13	ALA	-	expression tag	UNP O66529
JC	14	GLU	-	expression tag	UNP O66529
JC	15	LYS	-	expression tag	UNP O66529
JC	16	GLN	-	expression tag	UNP O66529
JC	17	ALA	-	expression tag	UNP O66529
JC	18	GLN	-	expression tag	UNP O66529
JC	19	TRP	-	expression tag	UNP O66529
JC	20	LYS	-	expression tag	UNP O66529
JC	21	ALA	-	expression tag	UNP O66529
JC	22	ALA	-	expression tag	UNP O66529
JC	23	ASN	-	expression tag	UNP O66529
JC	24	ALA	-	expression tag	UNP O66529
JC	25	GLY	-	expression tag	UNP O66529
JC	26	ALA	-	expression tag	UNP O66529
JC	27	GLY	-	expression tag	UNP O66529
JC	28	ALA	-	expression tag	UNP O66529
JC	29	GLY	-	expression tag	UNP O66529
JC	30	ALA	-	expression tag	UNP O66529
JC	31	MET	-	expression tag	UNP O66529
JC	39	ASN	ILE	conflict	UNP O66529
JC	42	VAL	GLU	conflict	UNP O66529
JC	58	VAL	ILE	conflict	UNP O66529
JC	59	SER	THR	conflict	UNP O66529
JC	61	ASP	GLY	conflict	UNP O66529
JC	62	ILE	VAL	conflict	UNP O66529
JC	97	TYR	PHE	conflict	UNP O66529
JC	102	GLY	-	expression tag	UNP O66529
JC	103	THR	-	expression tag	UNP O66529
JC	104	GLU	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
JC	105	HIS	-	expression tag	UNP O66529
JC	106	HIS	-	expression tag	UNP O66529
JC	107	HIS	-	expression tag	UNP O66529
JC	108	HIS	-	expression tag	UNP O66529
JC	109	LEU	-	expression tag	UNP O66529
JC	110	HIS	-	expression tag	UNP O66529
JC	111	GLY	-	expression tag	UNP O66529
JC	112	SER	-	expression tag	UNP O66529
JC	113	SER	-	expression tag	UNP O66529
JD	1	MET	-	initiating methionine	UNP O66529
JD	2	GLY	-	expression tag	UNP O66529
JD	3	ASN	-	expression tag	UNP O66529
JD	4	ALA	-	expression tag	UNP O66529
JD	5	ARG	-	expression tag	UNP O66529
JD	6	THR	-	expression tag	UNP O66529
JD	7	ARG	-	expression tag	UNP O66529
JD	8	ARG	-	expression tag	UNP O66529
JD	9	ARG	-	expression tag	UNP O66529
JD	10	GLU	-	expression tag	UNP O66529
JD	11	ARG	-	expression tag	UNP O66529
JD	12	ARG	-	expression tag	UNP O66529
JD	13	ALA	-	expression tag	UNP O66529
JD	14	GLU	-	expression tag	UNP O66529
JD	15	LYS	-	expression tag	UNP O66529
JD	16	GLN	-	expression tag	UNP O66529
JD	17	ALA	-	expression tag	UNP O66529
JD	18	GLN	-	expression tag	UNP O66529
JD	19	TRP	-	expression tag	UNP O66529
JD	20	LYS	-	expression tag	UNP O66529
JD	21	ALA	-	expression tag	UNP O66529
JD	22	ALA	-	expression tag	UNP O66529
JD	23	ASN	-	expression tag	UNP O66529
JD	24	ALA	-	expression tag	UNP O66529
JD	25	GLY	-	expression tag	UNP O66529
JD	26	ALA	-	expression tag	UNP O66529
JD	27	GLY	-	expression tag	UNP O66529
JD	28	ALA	-	expression tag	UNP O66529
JD	29	GLY	-	expression tag	UNP O66529
JD	30	ALA	-	expression tag	UNP O66529
JD	31	MET	-	expression tag	UNP O66529
JD	39	ASN	ILE	conflict	UNP O66529
JD	42	VAL	GLU	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
JD	58	VAL	ILE	conflict	UNP O66529
JD	59	SER	THR	conflict	UNP O66529
JD	61	ASP	GLY	conflict	UNP O66529
JD	62	ILE	VAL	conflict	UNP O66529
JD	97	TYR	PHE	conflict	UNP O66529
JD	102	GLY	-	expression tag	UNP O66529
JD	103	THR	-	expression tag	UNP O66529
JD	104	GLU	-	expression tag	UNP O66529
JD	105	HIS	-	expression tag	UNP O66529
JD	106	HIS	-	expression tag	UNP O66529
JD	107	HIS	-	expression tag	UNP O66529
JD	108	HIS	-	expression tag	UNP O66529
JD	109	LEU	-	expression tag	UNP O66529
JD	110	HIS	-	expression tag	UNP O66529
JD	111	GLY	-	expression tag	UNP O66529
JD	112	SER	-	expression tag	UNP O66529
JD	113	SER	-	expression tag	UNP O66529
KA	1	MET	-	initiating methionine	UNP O66529
KA	2	GLY	-	expression tag	UNP O66529
KA	3	ASN	-	expression tag	UNP O66529
KA	4	ALA	-	expression tag	UNP O66529
KA	5	ARG	-	expression tag	UNP O66529
KA	6	THR	-	expression tag	UNP O66529
KA	7	ARG	-	expression tag	UNP O66529
KA	8	ARG	-	expression tag	UNP O66529
KA	9	ARG	-	expression tag	UNP O66529
KA	10	GLU	-	expression tag	UNP O66529
KA	11	ARG	-	expression tag	UNP O66529
KA	12	ARG	-	expression tag	UNP O66529
KA	13	ALA	-	expression tag	UNP O66529
KA	14	GLU	-	expression tag	UNP O66529
KA	15	LYS	-	expression tag	UNP O66529
KA	16	GLN	-	expression tag	UNP O66529
KA	17	ALA	-	expression tag	UNP O66529
KA	18	GLN	-	expression tag	UNP O66529
KA	19	TRP	-	expression tag	UNP O66529
KA	20	LYS	-	expression tag	UNP O66529
KA	21	ALA	-	expression tag	UNP O66529
KA	22	ALA	-	expression tag	UNP O66529
KA	23	ASN	-	expression tag	UNP O66529
KA	24	ALA	-	expression tag	UNP O66529
KA	25	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
KA	26	ALA	-	expression tag	UNP O66529
KA	27	GLY	-	expression tag	UNP O66529
KA	28	ALA	-	expression tag	UNP O66529
KA	29	GLY	-	expression tag	UNP O66529
KA	30	ALA	-	expression tag	UNP O66529
KA	31	MET	-	expression tag	UNP O66529
KA	39	ASN	ILE	conflict	UNP O66529
KA	42	VAL	GLU	conflict	UNP O66529
KA	58	VAL	ILE	conflict	UNP O66529
KA	59	SER	THR	conflict	UNP O66529
KA	61	ASP	GLY	conflict	UNP O66529
KA	62	ILE	VAL	conflict	UNP O66529
KA	97	TYR	PHE	conflict	UNP O66529
KA	102	GLY	-	expression tag	UNP O66529
KA	103	THR	-	expression tag	UNP O66529
KA	104	GLU	-	expression tag	UNP O66529
KA	105	HIS	-	expression tag	UNP O66529
KA	106	HIS	-	expression tag	UNP O66529
KA	107	HIS	-	expression tag	UNP O66529
KA	108	HIS	-	expression tag	UNP O66529
KA	109	LEU	-	expression tag	UNP O66529
KA	110	HIS	-	expression tag	UNP O66529
KA	111	GLY	-	expression tag	UNP O66529
KA	112	SER	-	expression tag	UNP O66529
KA	113	SER	-	expression tag	UNP O66529
KB	1	MET	-	initiating methionine	UNP O66529
KB	2	GLY	-	expression tag	UNP O66529
KB	3	ASN	-	expression tag	UNP O66529
KB	4	ALA	-	expression tag	UNP O66529
KB	5	ARG	-	expression tag	UNP O66529
KB	6	THR	-	expression tag	UNP O66529
KB	7	ARG	-	expression tag	UNP O66529
KB	8	ARG	-	expression tag	UNP O66529
KB	9	ARG	-	expression tag	UNP O66529
KB	10	GLU	-	expression tag	UNP O66529
KB	11	ARG	-	expression tag	UNP O66529
KB	12	ARG	-	expression tag	UNP O66529
KB	13	ALA	-	expression tag	UNP O66529
KB	14	GLU	-	expression tag	UNP O66529
KB	15	LYS	-	expression tag	UNP O66529
KB	16	GLN	-	expression tag	UNP O66529
KB	17	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
KB	18	GLN	-	expression tag	UNP O66529
KB	19	TRP	-	expression tag	UNP O66529
KB	20	LYS	-	expression tag	UNP O66529
KB	21	ALA	-	expression tag	UNP O66529
KB	22	ALA	-	expression tag	UNP O66529
KB	23	ASN	-	expression tag	UNP O66529
KB	24	ALA	-	expression tag	UNP O66529
KB	25	GLY	-	expression tag	UNP O66529
KB	26	ALA	-	expression tag	UNP O66529
KB	27	GLY	-	expression tag	UNP O66529
KB	28	ALA	-	expression tag	UNP O66529
KB	29	GLY	-	expression tag	UNP O66529
KB	30	ALA	-	expression tag	UNP O66529
KB	31	MET	-	expression tag	UNP O66529
KB	39	ASN	ILE	conflict	UNP O66529
KB	42	VAL	GLU	conflict	UNP O66529
KB	58	VAL	ILE	conflict	UNP O66529
KB	59	SER	THR	conflict	UNP O66529
KB	61	ASP	GLY	conflict	UNP O66529
KB	62	ILE	VAL	conflict	UNP O66529
KB	97	TYR	PHE	conflict	UNP O66529
KB	102	GLY	-	expression tag	UNP O66529
KB	103	THR	-	expression tag	UNP O66529
KB	104	GLU	-	expression tag	UNP O66529
KB	105	HIS	-	expression tag	UNP O66529
KB	106	HIS	-	expression tag	UNP O66529
KB	107	HIS	-	expression tag	UNP O66529
KB	108	HIS	-	expression tag	UNP O66529
KB	109	LEU	-	expression tag	UNP O66529
KB	110	HIS	-	expression tag	UNP O66529
KB	111	GLY	-	expression tag	UNP O66529
KB	112	SER	-	expression tag	UNP O66529
KB	113	SER	-	expression tag	UNP O66529
KC	1	MET	-	initiating methionine	UNP O66529
KC	2	GLY	-	expression tag	UNP O66529
KC	3	ASN	-	expression tag	UNP O66529
KC	4	ALA	-	expression tag	UNP O66529
KC	5	ARG	-	expression tag	UNP O66529
KC	6	THR	-	expression tag	UNP O66529
KC	7	ARG	-	expression tag	UNP O66529
KC	8	ARG	-	expression tag	UNP O66529
KC	9	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
KC	10	GLU	-	expression tag	UNP O66529
KC	11	ARG	-	expression tag	UNP O66529
KC	12	ARG	-	expression tag	UNP O66529
KC	13	ALA	-	expression tag	UNP O66529
KC	14	GLU	-	expression tag	UNP O66529
KC	15	LYS	-	expression tag	UNP O66529
KC	16	GLN	-	expression tag	UNP O66529
KC	17	ALA	-	expression tag	UNP O66529
KC	18	GLN	-	expression tag	UNP O66529
KC	19	TRP	-	expression tag	UNP O66529
KC	20	LYS	-	expression tag	UNP O66529
KC	21	ALA	-	expression tag	UNP O66529
KC	22	ALA	-	expression tag	UNP O66529
KC	23	ASN	-	expression tag	UNP O66529
KC	24	ALA	-	expression tag	UNP O66529
KC	25	GLY	-	expression tag	UNP O66529
KC	26	ALA	-	expression tag	UNP O66529
KC	27	GLY	-	expression tag	UNP O66529
KC	28	ALA	-	expression tag	UNP O66529
KC	29	GLY	-	expression tag	UNP O66529
KC	30	ALA	-	expression tag	UNP O66529
KC	31	MET	-	expression tag	UNP O66529
KC	39	ASN	ILE	conflict	UNP O66529
KC	42	VAL	GLU	conflict	UNP O66529
KC	58	VAL	ILE	conflict	UNP O66529
KC	59	SER	THR	conflict	UNP O66529
KC	61	ASP	GLY	conflict	UNP O66529
KC	62	ILE	VAL	conflict	UNP O66529
KC	97	TYR	PHE	conflict	UNP O66529
KC	102	GLY	-	expression tag	UNP O66529
KC	103	THR	-	expression tag	UNP O66529
KC	104	GLU	-	expression tag	UNP O66529
KC	105	HIS	-	expression tag	UNP O66529
KC	106	HIS	-	expression tag	UNP O66529
KC	107	HIS	-	expression tag	UNP O66529
KC	108	HIS	-	expression tag	UNP O66529
KC	109	LEU	-	expression tag	UNP O66529
KC	110	HIS	-	expression tag	UNP O66529
KC	111	GLY	-	expression tag	UNP O66529
KC	112	SER	-	expression tag	UNP O66529
KC	113	SER	-	expression tag	UNP O66529
KD	1	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
KD	2	GLY	-	expression tag	UNP O66529
KD	3	ASN	-	expression tag	UNP O66529
KD	4	ALA	-	expression tag	UNP O66529
KD	5	ARG	-	expression tag	UNP O66529
KD	6	THR	-	expression tag	UNP O66529
KD	7	ARG	-	expression tag	UNP O66529
KD	8	ARG	-	expression tag	UNP O66529
KD	9	ARG	-	expression tag	UNP O66529
KD	10	GLU	-	expression tag	UNP O66529
KD	11	ARG	-	expression tag	UNP O66529
KD	12	ARG	-	expression tag	UNP O66529
KD	13	ALA	-	expression tag	UNP O66529
KD	14	GLU	-	expression tag	UNP O66529
KD	15	LYS	-	expression tag	UNP O66529
KD	16	GLN	-	expression tag	UNP O66529
KD	17	ALA	-	expression tag	UNP O66529
KD	18	GLN	-	expression tag	UNP O66529
KD	19	TRP	-	expression tag	UNP O66529
KD	20	LYS	-	expression tag	UNP O66529
KD	21	ALA	-	expression tag	UNP O66529
KD	22	ALA	-	expression tag	UNP O66529
KD	23	ASN	-	expression tag	UNP O66529
KD	24	ALA	-	expression tag	UNP O66529
KD	25	GLY	-	expression tag	UNP O66529
KD	26	ALA	-	expression tag	UNP O66529
KD	27	GLY	-	expression tag	UNP O66529
KD	28	ALA	-	expression tag	UNP O66529
KD	29	GLY	-	expression tag	UNP O66529
KD	30	ALA	-	expression tag	UNP O66529
KD	31	MET	-	expression tag	UNP O66529
KD	39	ASN	ILE	conflict	UNP O66529
KD	42	VAL	GLU	conflict	UNP O66529
KD	58	VAL	ILE	conflict	UNP O66529
KD	59	SER	THR	conflict	UNP O66529
KD	61	ASP	GLY	conflict	UNP O66529
KD	62	ILE	VAL	conflict	UNP O66529
KD	97	TYR	PHE	conflict	UNP O66529
KD	102	GLY	-	expression tag	UNP O66529
KD	103	THR	-	expression tag	UNP O66529
KD	104	GLU	-	expression tag	UNP O66529
KD	105	HIS	-	expression tag	UNP O66529
KD	106	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
KD	107	HIS	-	expression tag	UNP O66529
KD	108	HIS	-	expression tag	UNP O66529
KD	109	LEU	-	expression tag	UNP O66529
KD	110	HIS	-	expression tag	UNP O66529
KD	111	GLY	-	expression tag	UNP O66529
KD	112	SER	-	expression tag	UNP O66529
KD	113	SER	-	expression tag	UNP O66529
LA	1	MET	-	initiating methionine	UNP O66529
LA	2	GLY	-	expression tag	UNP O66529
LA	3	ASN	-	expression tag	UNP O66529
LA	4	ALA	-	expression tag	UNP O66529
LA	5	ARG	-	expression tag	UNP O66529
LA	6	THR	-	expression tag	UNP O66529
LA	7	ARG	-	expression tag	UNP O66529
LA	8	ARG	-	expression tag	UNP O66529
LA	9	ARG	-	expression tag	UNP O66529
LA	10	GLU	-	expression tag	UNP O66529
LA	11	ARG	-	expression tag	UNP O66529
LA	12	ARG	-	expression tag	UNP O66529
LA	13	ALA	-	expression tag	UNP O66529
LA	14	GLU	-	expression tag	UNP O66529
LA	15	LYS	-	expression tag	UNP O66529
LA	16	GLN	-	expression tag	UNP O66529
LA	17	ALA	-	expression tag	UNP O66529
LA	18	GLN	-	expression tag	UNP O66529
LA	19	TRP	-	expression tag	UNP O66529
LA	20	LYS	-	expression tag	UNP O66529
LA	21	ALA	-	expression tag	UNP O66529
LA	22	ALA	-	expression tag	UNP O66529
LA	23	ASN	-	expression tag	UNP O66529
LA	24	ALA	-	expression tag	UNP O66529
LA	25	GLY	-	expression tag	UNP O66529
LA	26	ALA	-	expression tag	UNP O66529
LA	27	GLY	-	expression tag	UNP O66529
LA	28	ALA	-	expression tag	UNP O66529
LA	29	GLY	-	expression tag	UNP O66529
LA	30	ALA	-	expression tag	UNP O66529
LA	31	MET	-	expression tag	UNP O66529
LA	39	ASN	ILE	conflict	UNP O66529
LA	42	VAL	GLU	conflict	UNP O66529
LA	58	VAL	ILE	conflict	UNP O66529
LA	59	SER	THR	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
LA	61	ASP	GLY	conflict	UNP O66529
LA	62	ILE	VAL	conflict	UNP O66529
LA	97	TYR	PHE	conflict	UNP O66529
LA	102	GLY	-	expression tag	UNP O66529
LA	103	THR	-	expression tag	UNP O66529
LA	104	GLU	-	expression tag	UNP O66529
LA	105	HIS	-	expression tag	UNP O66529
LA	106	HIS	-	expression tag	UNP O66529
LA	107	HIS	-	expression tag	UNP O66529
LA	108	HIS	-	expression tag	UNP O66529
LA	109	LEU	-	expression tag	UNP O66529
LA	110	HIS	-	expression tag	UNP O66529
LA	111	GLY	-	expression tag	UNP O66529
LA	112	SER	-	expression tag	UNP O66529
LA	113	SER	-	expression tag	UNP O66529
LB	1	MET	-	initiating methionine	UNP O66529
LB	2	GLY	-	expression tag	UNP O66529
LB	3	ASN	-	expression tag	UNP O66529
LB	4	ALA	-	expression tag	UNP O66529
LB	5	ARG	-	expression tag	UNP O66529
LB	6	THR	-	expression tag	UNP O66529
LB	7	ARG	-	expression tag	UNP O66529
LB	8	ARG	-	expression tag	UNP O66529
LB	9	ARG	-	expression tag	UNP O66529
LB	10	GLU	-	expression tag	UNP O66529
LB	11	ARG	-	expression tag	UNP O66529
LB	12	ARG	-	expression tag	UNP O66529
LB	13	ALA	-	expression tag	UNP O66529
LB	14	GLU	-	expression tag	UNP O66529
LB	15	LYS	-	expression tag	UNP O66529
LB	16	GLN	-	expression tag	UNP O66529
LB	17	ALA	-	expression tag	UNP O66529
LB	18	GLN	-	expression tag	UNP O66529
LB	19	TRP	-	expression tag	UNP O66529
LB	20	LYS	-	expression tag	UNP O66529
LB	21	ALA	-	expression tag	UNP O66529
LB	22	ALA	-	expression tag	UNP O66529
LB	23	ASN	-	expression tag	UNP O66529
LB	24	ALA	-	expression tag	UNP O66529
LB	25	GLY	-	expression tag	UNP O66529
LB	26	ALA	-	expression tag	UNP O66529
LB	27	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
LB	28	ALA	-	expression tag	UNP O66529
LB	29	GLY	-	expression tag	UNP O66529
LB	30	ALA	-	expression tag	UNP O66529
LB	31	MET	-	expression tag	UNP O66529
LB	39	ASN	ILE	conflict	UNP O66529
LB	42	VAL	GLU	conflict	UNP O66529
LB	58	VAL	ILE	conflict	UNP O66529
LB	59	SER	THR	conflict	UNP O66529
LB	61	ASP	GLY	conflict	UNP O66529
LB	62	ILE	VAL	conflict	UNP O66529
LB	97	TYR	PHE	conflict	UNP O66529
LB	102	GLY	-	expression tag	UNP O66529
LB	103	THR	-	expression tag	UNP O66529
LB	104	GLU	-	expression tag	UNP O66529
LB	105	HIS	-	expression tag	UNP O66529
LB	106	HIS	-	expression tag	UNP O66529
LB	107	HIS	-	expression tag	UNP O66529
LB	108	HIS	-	expression tag	UNP O66529
LB	109	LEU	-	expression tag	UNP O66529
LB	110	HIS	-	expression tag	UNP O66529
LB	111	GLY	-	expression tag	UNP O66529
LB	112	SER	-	expression tag	UNP O66529
LB	113	SER	-	expression tag	UNP O66529
LC	1	MET	-	initiating methionine	UNP O66529
LC	2	GLY	-	expression tag	UNP O66529
LC	3	ASN	-	expression tag	UNP O66529
LC	4	ALA	-	expression tag	UNP O66529
LC	5	ARG	-	expression tag	UNP O66529
LC	6	THR	-	expression tag	UNP O66529
LC	7	ARG	-	expression tag	UNP O66529
LC	8	ARG	-	expression tag	UNP O66529
LC	9	ARG	-	expression tag	UNP O66529
LC	10	GLU	-	expression tag	UNP O66529
LC	11	ARG	-	expression tag	UNP O66529
LC	12	ARG	-	expression tag	UNP O66529
LC	13	ALA	-	expression tag	UNP O66529
LC	14	GLU	-	expression tag	UNP O66529
LC	15	LYS	-	expression tag	UNP O66529
LC	16	GLN	-	expression tag	UNP O66529
LC	17	ALA	-	expression tag	UNP O66529
LC	18	GLN	-	expression tag	UNP O66529
LC	19	TRP	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
LC	20	LYS	-	expression tag	UNP O66529
LC	21	ALA	-	expression tag	UNP O66529
LC	22	ALA	-	expression tag	UNP O66529
LC	23	ASN	-	expression tag	UNP O66529
LC	24	ALA	-	expression tag	UNP O66529
LC	25	GLY	-	expression tag	UNP O66529
LC	26	ALA	-	expression tag	UNP O66529
LC	27	GLY	-	expression tag	UNP O66529
LC	28	ALA	-	expression tag	UNP O66529
LC	29	GLY	-	expression tag	UNP O66529
LC	30	ALA	-	expression tag	UNP O66529
LC	31	MET	-	expression tag	UNP O66529
LC	39	ASN	ILE	conflict	UNP O66529
LC	42	VAL	GLU	conflict	UNP O66529
LC	58	VAL	ILE	conflict	UNP O66529
LC	59	SER	THR	conflict	UNP O66529
LC	61	ASP	GLY	conflict	UNP O66529
LC	62	ILE	VAL	conflict	UNP O66529
LC	97	TYR	PHE	conflict	UNP O66529
LC	102	GLY	-	expression tag	UNP O66529
LC	103	THR	-	expression tag	UNP O66529
LC	104	GLU	-	expression tag	UNP O66529
LC	105	HIS	-	expression tag	UNP O66529
LC	106	HIS	-	expression tag	UNP O66529
LC	107	HIS	-	expression tag	UNP O66529
LC	108	HIS	-	expression tag	UNP O66529
LC	109	LEU	-	expression tag	UNP O66529
LC	110	HIS	-	expression tag	UNP O66529
LC	111	GLY	-	expression tag	UNP O66529
LC	112	SER	-	expression tag	UNP O66529
LC	113	SER	-	expression tag	UNP O66529
LD	1	MET	-	initiating methionine	UNP O66529
LD	2	GLY	-	expression tag	UNP O66529
LD	3	ASN	-	expression tag	UNP O66529
LD	4	ALA	-	expression tag	UNP O66529
LD	5	ARG	-	expression tag	UNP O66529
LD	6	THR	-	expression tag	UNP O66529
LD	7	ARG	-	expression tag	UNP O66529
LD	8	ARG	-	expression tag	UNP O66529
LD	9	ARG	-	expression tag	UNP O66529
LD	10	GLU	-	expression tag	UNP O66529
LD	11	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
LD	12	ARG	-	expression tag	UNP O66529
LD	13	ALA	-	expression tag	UNP O66529
LD	14	GLU	-	expression tag	UNP O66529
LD	15	LYS	-	expression tag	UNP O66529
LD	16	GLN	-	expression tag	UNP O66529
LD	17	ALA	-	expression tag	UNP O66529
LD	18	GLN	-	expression tag	UNP O66529
LD	19	TRP	-	expression tag	UNP O66529
LD	20	LYS	-	expression tag	UNP O66529
LD	21	ALA	-	expression tag	UNP O66529
LD	22	ALA	-	expression tag	UNP O66529
LD	23	ASN	-	expression tag	UNP O66529
LD	24	ALA	-	expression tag	UNP O66529
LD	25	GLY	-	expression tag	UNP O66529
LD	26	ALA	-	expression tag	UNP O66529
LD	27	GLY	-	expression tag	UNP O66529
LD	28	ALA	-	expression tag	UNP O66529
LD	29	GLY	-	expression tag	UNP O66529
LD	30	ALA	-	expression tag	UNP O66529
LD	31	MET	-	expression tag	UNP O66529
LD	39	ASN	ILE	conflict	UNP O66529
LD	42	VAL	GLU	conflict	UNP O66529
LD	58	VAL	ILE	conflict	UNP O66529
LD	59	SER	THR	conflict	UNP O66529
LD	61	ASP	GLY	conflict	UNP O66529
LD	62	ILE	VAL	conflict	UNP O66529
LD	97	TYR	PHE	conflict	UNP O66529
LD	102	GLY	-	expression tag	UNP O66529
LD	103	THR	-	expression tag	UNP O66529
LD	104	GLU	-	expression tag	UNP O66529
LD	105	HIS	-	expression tag	UNP O66529
LD	106	HIS	-	expression tag	UNP O66529
LD	107	HIS	-	expression tag	UNP O66529
LD	108	HIS	-	expression tag	UNP O66529
LD	109	LEU	-	expression tag	UNP O66529
LD	110	HIS	-	expression tag	UNP O66529
LD	111	GLY	-	expression tag	UNP O66529
LD	112	SER	-	expression tag	UNP O66529
LD	113	SER	-	expression tag	UNP O66529
MA	1	MET	-	initiating methionine	UNP O66529
MA	2	GLY	-	expression tag	UNP O66529
MA	3	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
MA	4	ALA	-	expression tag	UNP O66529
MA	5	ARG	-	expression tag	UNP O66529
MA	6	THR	-	expression tag	UNP O66529
MA	7	ARG	-	expression tag	UNP O66529
MA	8	ARG	-	expression tag	UNP O66529
MA	9	ARG	-	expression tag	UNP O66529
MA	10	GLU	-	expression tag	UNP O66529
MA	11	ARG	-	expression tag	UNP O66529
MA	12	ARG	-	expression tag	UNP O66529
MA	13	ALA	-	expression tag	UNP O66529
MA	14	GLU	-	expression tag	UNP O66529
MA	15	LYS	-	expression tag	UNP O66529
MA	16	GLN	-	expression tag	UNP O66529
MA	17	ALA	-	expression tag	UNP O66529
MA	18	GLN	-	expression tag	UNP O66529
MA	19	TRP	-	expression tag	UNP O66529
MA	20	LYS	-	expression tag	UNP O66529
MA	21	ALA	-	expression tag	UNP O66529
MA	22	ALA	-	expression tag	UNP O66529
MA	23	ASN	-	expression tag	UNP O66529
MA	24	ALA	-	expression tag	UNP O66529
MA	25	GLY	-	expression tag	UNP O66529
MA	26	ALA	-	expression tag	UNP O66529
MA	27	GLY	-	expression tag	UNP O66529
MA	28	ALA	-	expression tag	UNP O66529
MA	29	GLY	-	expression tag	UNP O66529
MA	30	ALA	-	expression tag	UNP O66529
MA	31	MET	-	expression tag	UNP O66529
MA	39	ASN	ILE	conflict	UNP O66529
MA	42	VAL	GLU	conflict	UNP O66529
MA	58	VAL	ILE	conflict	UNP O66529
MA	59	SER	THR	conflict	UNP O66529
MA	61	ASP	GLY	conflict	UNP O66529
MA	62	ILE	VAL	conflict	UNP O66529
MA	97	TYR	PHE	conflict	UNP O66529
MA	102	GLY	-	expression tag	UNP O66529
MA	103	THR	-	expression tag	UNP O66529
MA	104	GLU	-	expression tag	UNP O66529
MA	105	HIS	-	expression tag	UNP O66529
MA	106	HIS	-	expression tag	UNP O66529
MA	107	HIS	-	expression tag	UNP O66529
MA	108	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
MA	109	LEU	-	expression tag	UNP O66529
MA	110	HIS	-	expression tag	UNP O66529
MA	111	GLY	-	expression tag	UNP O66529
MA	112	SER	-	expression tag	UNP O66529
MA	113	SER	-	expression tag	UNP O66529
MB	1	MET	-	initiating methionine	UNP O66529
MB	2	GLY	-	expression tag	UNP O66529
MB	3	ASN	-	expression tag	UNP O66529
MB	4	ALA	-	expression tag	UNP O66529
MB	5	ARG	-	expression tag	UNP O66529
MB	6	THR	-	expression tag	UNP O66529
MB	7	ARG	-	expression tag	UNP O66529
MB	8	ARG	-	expression tag	UNP O66529
MB	9	ARG	-	expression tag	UNP O66529
MB	10	GLU	-	expression tag	UNP O66529
MB	11	ARG	-	expression tag	UNP O66529
MB	12	ARG	-	expression tag	UNP O66529
MB	13	ALA	-	expression tag	UNP O66529
MB	14	GLU	-	expression tag	UNP O66529
MB	15	LYS	-	expression tag	UNP O66529
MB	16	GLN	-	expression tag	UNP O66529
MB	17	ALA	-	expression tag	UNP O66529
MB	18	GLN	-	expression tag	UNP O66529
MB	19	TRP	-	expression tag	UNP O66529
MB	20	LYS	-	expression tag	UNP O66529
MB	21	ALA	-	expression tag	UNP O66529
MB	22	ALA	-	expression tag	UNP O66529
MB	23	ASN	-	expression tag	UNP O66529
MB	24	ALA	-	expression tag	UNP O66529
MB	25	GLY	-	expression tag	UNP O66529
MB	26	ALA	-	expression tag	UNP O66529
MB	27	GLY	-	expression tag	UNP O66529
MB	28	ALA	-	expression tag	UNP O66529
MB	29	GLY	-	expression tag	UNP O66529
MB	30	ALA	-	expression tag	UNP O66529
MB	31	MET	-	expression tag	UNP O66529
MB	39	ASN	ILE	conflict	UNP O66529
MB	42	VAL	GLU	conflict	UNP O66529
MB	58	VAL	ILE	conflict	UNP O66529
MB	59	SER	THR	conflict	UNP O66529
MB	61	ASP	GLY	conflict	UNP O66529
MB	62	ILE	VAL	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
MB	97	TYR	PHE	conflict	UNP O66529
MB	102	GLY	-	expression tag	UNP O66529
MB	103	THR	-	expression tag	UNP O66529
MB	104	GLU	-	expression tag	UNP O66529
MB	105	HIS	-	expression tag	UNP O66529
MB	106	HIS	-	expression tag	UNP O66529
MB	107	HIS	-	expression tag	UNP O66529
MB	108	HIS	-	expression tag	UNP O66529
MB	109	LEU	-	expression tag	UNP O66529
MB	110	HIS	-	expression tag	UNP O66529
MB	111	GLY	-	expression tag	UNP O66529
MB	112	SER	-	expression tag	UNP O66529
MB	113	SER	-	expression tag	UNP O66529
MC	1	MET	-	initiating methionine	UNP O66529
MC	2	GLY	-	expression tag	UNP O66529
MC	3	ASN	-	expression tag	UNP O66529
MC	4	ALA	-	expression tag	UNP O66529
MC	5	ARG	-	expression tag	UNP O66529
MC	6	THR	-	expression tag	UNP O66529
MC	7	ARG	-	expression tag	UNP O66529
MC	8	ARG	-	expression tag	UNP O66529
MC	9	ARG	-	expression tag	UNP O66529
MC	10	GLU	-	expression tag	UNP O66529
MC	11	ARG	-	expression tag	UNP O66529
MC	12	ARG	-	expression tag	UNP O66529
MC	13	ALA	-	expression tag	UNP O66529
MC	14	GLU	-	expression tag	UNP O66529
MC	15	LYS	-	expression tag	UNP O66529
MC	16	GLN	-	expression tag	UNP O66529
MC	17	ALA	-	expression tag	UNP O66529
MC	18	GLN	-	expression tag	UNP O66529
MC	19	TRP	-	expression tag	UNP O66529
MC	20	LYS	-	expression tag	UNP O66529
MC	21	ALA	-	expression tag	UNP O66529
MC	22	ALA	-	expression tag	UNP O66529
MC	23	ASN	-	expression tag	UNP O66529
MC	24	ALA	-	expression tag	UNP O66529
MC	25	GLY	-	expression tag	UNP O66529
MC	26	ALA	-	expression tag	UNP O66529
MC	27	GLY	-	expression tag	UNP O66529
MC	28	ALA	-	expression tag	UNP O66529
MC	29	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
MC	30	ALA	-	expression tag	UNP O66529
MC	31	MET	-	expression tag	UNP O66529
MC	39	ASN	ILE	conflict	UNP O66529
MC	42	VAL	GLU	conflict	UNP O66529
MC	58	VAL	ILE	conflict	UNP O66529
MC	59	SER	THR	conflict	UNP O66529
MC	61	ASP	GLY	conflict	UNP O66529
MC	62	ILE	VAL	conflict	UNP O66529
MC	97	TYR	PHE	conflict	UNP O66529
MC	102	GLY	-	expression tag	UNP O66529
MC	103	THR	-	expression tag	UNP O66529
MC	104	GLU	-	expression tag	UNP O66529
MC	105	HIS	-	expression tag	UNP O66529
MC	106	HIS	-	expression tag	UNP O66529
MC	107	HIS	-	expression tag	UNP O66529
MC	108	HIS	-	expression tag	UNP O66529
MC	109	LEU	-	expression tag	UNP O66529
MC	110	HIS	-	expression tag	UNP O66529
MC	111	GLY	-	expression tag	UNP O66529
MC	112	SER	-	expression tag	UNP O66529
MC	113	SER	-	expression tag	UNP O66529
MD	1	MET	-	initiating methionine	UNP O66529
MD	2	GLY	-	expression tag	UNP O66529
MD	3	ASN	-	expression tag	UNP O66529
MD	4	ALA	-	expression tag	UNP O66529
MD	5	ARG	-	expression tag	UNP O66529
MD	6	THR	-	expression tag	UNP O66529
MD	7	ARG	-	expression tag	UNP O66529
MD	8	ARG	-	expression tag	UNP O66529
MD	9	ARG	-	expression tag	UNP O66529
MD	10	GLU	-	expression tag	UNP O66529
MD	11	ARG	-	expression tag	UNP O66529
MD	12	ARG	-	expression tag	UNP O66529
MD	13	ALA	-	expression tag	UNP O66529
MD	14	GLU	-	expression tag	UNP O66529
MD	15	LYS	-	expression tag	UNP O66529
MD	16	GLN	-	expression tag	UNP O66529
MD	17	ALA	-	expression tag	UNP O66529
MD	18	GLN	-	expression tag	UNP O66529
MD	19	TRP	-	expression tag	UNP O66529
MD	20	LYS	-	expression tag	UNP O66529
MD	21	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
MD	22	ALA	-	expression tag	UNP O66529
MD	23	ASN	-	expression tag	UNP O66529
MD	24	ALA	-	expression tag	UNP O66529
MD	25	GLY	-	expression tag	UNP O66529
MD	26	ALA	-	expression tag	UNP O66529
MD	27	GLY	-	expression tag	UNP O66529
MD	28	ALA	-	expression tag	UNP O66529
MD	29	GLY	-	expression tag	UNP O66529
MD	30	ALA	-	expression tag	UNP O66529
MD	31	MET	-	expression tag	UNP O66529
MD	39	ASN	ILE	conflict	UNP O66529
MD	42	VAL	GLU	conflict	UNP O66529
MD	58	VAL	ILE	conflict	UNP O66529
MD	59	SER	THR	conflict	UNP O66529
MD	61	ASP	GLY	conflict	UNP O66529
MD	62	ILE	VAL	conflict	UNP O66529
MD	97	TYR	PHE	conflict	UNP O66529
MD	102	GLY	-	expression tag	UNP O66529
MD	103	THR	-	expression tag	UNP O66529
MD	104	GLU	-	expression tag	UNP O66529
MD	105	HIS	-	expression tag	UNP O66529
MD	106	HIS	-	expression tag	UNP O66529
MD	107	HIS	-	expression tag	UNP O66529
MD	108	HIS	-	expression tag	UNP O66529
MD	109	LEU	-	expression tag	UNP O66529
MD	110	HIS	-	expression tag	UNP O66529
MD	111	GLY	-	expression tag	UNP O66529
MD	112	SER	-	expression tag	UNP O66529
MD	113	SER	-	expression tag	UNP O66529
NA	1	MET	-	initiating methionine	UNP O66529
NA	2	GLY	-	expression tag	UNP O66529
NA	3	ASN	-	expression tag	UNP O66529
NA	4	ALA	-	expression tag	UNP O66529
NA	5	ARG	-	expression tag	UNP O66529
NA	6	THR	-	expression tag	UNP O66529
NA	7	ARG	-	expression tag	UNP O66529
NA	8	ARG	-	expression tag	UNP O66529
NA	9	ARG	-	expression tag	UNP O66529
NA	10	GLU	-	expression tag	UNP O66529
NA	11	ARG	-	expression tag	UNP O66529
NA	12	ARG	-	expression tag	UNP O66529
NA	13	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
NA	14	GLU	-	expression tag	UNP O66529
NA	15	LYS	-	expression tag	UNP O66529
NA	16	GLN	-	expression tag	UNP O66529
NA	17	ALA	-	expression tag	UNP O66529
NA	18	GLN	-	expression tag	UNP O66529
NA	19	TRP	-	expression tag	UNP O66529
NA	20	LYS	-	expression tag	UNP O66529
NA	21	ALA	-	expression tag	UNP O66529
NA	22	ALA	-	expression tag	UNP O66529
NA	23	ASN	-	expression tag	UNP O66529
NA	24	ALA	-	expression tag	UNP O66529
NA	25	GLY	-	expression tag	UNP O66529
NA	26	ALA	-	expression tag	UNP O66529
NA	27	GLY	-	expression tag	UNP O66529
NA	28	ALA	-	expression tag	UNP O66529
NA	29	GLY	-	expression tag	UNP O66529
NA	30	ALA	-	expression tag	UNP O66529
NA	31	MET	-	expression tag	UNP O66529
NA	39	ASN	ILE	conflict	UNP O66529
NA	42	VAL	GLU	conflict	UNP O66529
NA	58	VAL	ILE	conflict	UNP O66529
NA	59	SER	THR	conflict	UNP O66529
NA	61	ASP	GLY	conflict	UNP O66529
NA	62	ILE	VAL	conflict	UNP O66529
NA	97	TYR	PHE	conflict	UNP O66529
NA	102	GLY	-	expression tag	UNP O66529
NA	103	THR	-	expression tag	UNP O66529
NA	104	GLU	-	expression tag	UNP O66529
NA	105	HIS	-	expression tag	UNP O66529
NA	106	HIS	-	expression tag	UNP O66529
NA	107	HIS	-	expression tag	UNP O66529
NA	108	HIS	-	expression tag	UNP O66529
NA	109	LEU	-	expression tag	UNP O66529
NA	110	HIS	-	expression tag	UNP O66529
NA	111	GLY	-	expression tag	UNP O66529
NA	112	SER	-	expression tag	UNP O66529
NA	113	SER	-	expression tag	UNP O66529
NB	1	MET	-	initiating methionine	UNP O66529
NB	2	GLY	-	expression tag	UNP O66529
NB	3	ASN	-	expression tag	UNP O66529
NB	4	ALA	-	expression tag	UNP O66529
NB	5	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
NB	6	THR	-	expression tag	UNP O66529
NB	7	ARG	-	expression tag	UNP O66529
NB	8	ARG	-	expression tag	UNP O66529
NB	9	ARG	-	expression tag	UNP O66529
NB	10	GLU	-	expression tag	UNP O66529
NB	11	ARG	-	expression tag	UNP O66529
NB	12	ARG	-	expression tag	UNP O66529
NB	13	ALA	-	expression tag	UNP O66529
NB	14	GLU	-	expression tag	UNP O66529
NB	15	LYS	-	expression tag	UNP O66529
NB	16	GLN	-	expression tag	UNP O66529
NB	17	ALA	-	expression tag	UNP O66529
NB	18	GLN	-	expression tag	UNP O66529
NB	19	TRP	-	expression tag	UNP O66529
NB	20	LYS	-	expression tag	UNP O66529
NB	21	ALA	-	expression tag	UNP O66529
NB	22	ALA	-	expression tag	UNP O66529
NB	23	ASN	-	expression tag	UNP O66529
NB	24	ALA	-	expression tag	UNP O66529
NB	25	GLY	-	expression tag	UNP O66529
NB	26	ALA	-	expression tag	UNP O66529
NB	27	GLY	-	expression tag	UNP O66529
NB	28	ALA	-	expression tag	UNP O66529
NB	29	GLY	-	expression tag	UNP O66529
NB	30	ALA	-	expression tag	UNP O66529
NB	31	MET	-	expression tag	UNP O66529
NB	39	ASN	ILE	conflict	UNP O66529
NB	42	VAL	GLU	conflict	UNP O66529
NB	58	VAL	ILE	conflict	UNP O66529
NB	59	SER	THR	conflict	UNP O66529
NB	61	ASP	GLY	conflict	UNP O66529
NB	62	ILE	VAL	conflict	UNP O66529
NB	97	TYR	PHE	conflict	UNP O66529
NB	102	GLY	-	expression tag	UNP O66529
NB	103	THR	-	expression tag	UNP O66529
NB	104	GLU	-	expression tag	UNP O66529
NB	105	HIS	-	expression tag	UNP O66529
NB	106	HIS	-	expression tag	UNP O66529
NB	107	HIS	-	expression tag	UNP O66529
NB	108	HIS	-	expression tag	UNP O66529
NB	109	LEU	-	expression tag	UNP O66529
NB	110	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
NB	111	GLY	-	expression tag	UNP O66529
NB	112	SER	-	expression tag	UNP O66529
NB	113	SER	-	expression tag	UNP O66529
NC	1	MET	-	initiating methionine	UNP O66529
NC	2	GLY	-	expression tag	UNP O66529
NC	3	ASN	-	expression tag	UNP O66529
NC	4	ALA	-	expression tag	UNP O66529
NC	5	ARG	-	expression tag	UNP O66529
NC	6	THR	-	expression tag	UNP O66529
NC	7	ARG	-	expression tag	UNP O66529
NC	8	ARG	-	expression tag	UNP O66529
NC	9	ARG	-	expression tag	UNP O66529
NC	10	GLU	-	expression tag	UNP O66529
NC	11	ARG	-	expression tag	UNP O66529
NC	12	ARG	-	expression tag	UNP O66529
NC	13	ALA	-	expression tag	UNP O66529
NC	14	GLU	-	expression tag	UNP O66529
NC	15	LYS	-	expression tag	UNP O66529
NC	16	GLN	-	expression tag	UNP O66529
NC	17	ALA	-	expression tag	UNP O66529
NC	18	GLN	-	expression tag	UNP O66529
NC	19	TRP	-	expression tag	UNP O66529
NC	20	LYS	-	expression tag	UNP O66529
NC	21	ALA	-	expression tag	UNP O66529
NC	22	ALA	-	expression tag	UNP O66529
NC	23	ASN	-	expression tag	UNP O66529
NC	24	ALA	-	expression tag	UNP O66529
NC	25	GLY	-	expression tag	UNP O66529
NC	26	ALA	-	expression tag	UNP O66529
NC	27	GLY	-	expression tag	UNP O66529
NC	28	ALA	-	expression tag	UNP O66529
NC	29	GLY	-	expression tag	UNP O66529
NC	30	ALA	-	expression tag	UNP O66529
NC	31	MET	-	expression tag	UNP O66529
NC	39	ASN	ILE	conflict	UNP O66529
NC	42	VAL	GLU	conflict	UNP O66529
NC	58	VAL	ILE	conflict	UNP O66529
NC	59	SER	THR	conflict	UNP O66529
NC	61	ASP	GLY	conflict	UNP O66529
NC	62	ILE	VAL	conflict	UNP O66529
NC	97	TYR	PHE	conflict	UNP O66529
NC	102	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
NC	103	THR	-	expression tag	UNP O66529
NC	104	GLU	-	expression tag	UNP O66529
NC	105	HIS	-	expression tag	UNP O66529
NC	106	HIS	-	expression tag	UNP O66529
NC	107	HIS	-	expression tag	UNP O66529
NC	108	HIS	-	expression tag	UNP O66529
NC	109	LEU	-	expression tag	UNP O66529
NC	110	HIS	-	expression tag	UNP O66529
NC	111	GLY	-	expression tag	UNP O66529
NC	112	SER	-	expression tag	UNP O66529
NC	113	SER	-	expression tag	UNP O66529
ND	1	MET	-	initiating methionine	UNP O66529
ND	2	GLY	-	expression tag	UNP O66529
ND	3	ASN	-	expression tag	UNP O66529
ND	4	ALA	-	expression tag	UNP O66529
ND	5	ARG	-	expression tag	UNP O66529
ND	6	THR	-	expression tag	UNP O66529
ND	7	ARG	-	expression tag	UNP O66529
ND	8	ARG	-	expression tag	UNP O66529
ND	9	ARG	-	expression tag	UNP O66529
ND	10	GLU	-	expression tag	UNP O66529
ND	11	ARG	-	expression tag	UNP O66529
ND	12	ARG	-	expression tag	UNP O66529
ND	13	ALA	-	expression tag	UNP O66529
ND	14	GLU	-	expression tag	UNP O66529
ND	15	LYS	-	expression tag	UNP O66529
ND	16	GLN	-	expression tag	UNP O66529
ND	17	ALA	-	expression tag	UNP O66529
ND	18	GLN	-	expression tag	UNP O66529
ND	19	TRP	-	expression tag	UNP O66529
ND	20	LYS	-	expression tag	UNP O66529
ND	21	ALA	-	expression tag	UNP O66529
ND	22	ALA	-	expression tag	UNP O66529
ND	23	ASN	-	expression tag	UNP O66529
ND	24	ALA	-	expression tag	UNP O66529
ND	25	GLY	-	expression tag	UNP O66529
ND	26	ALA	-	expression tag	UNP O66529
ND	27	GLY	-	expression tag	UNP O66529
ND	28	ALA	-	expression tag	UNP O66529
ND	29	GLY	-	expression tag	UNP O66529
ND	30	ALA	-	expression tag	UNP O66529
ND	31	MET	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
ND	39	ASN	ILE	conflict	UNP O66529
ND	42	VAL	GLU	conflict	UNP O66529
ND	58	VAL	ILE	conflict	UNP O66529
ND	59	SER	THR	conflict	UNP O66529
ND	61	ASP	GLY	conflict	UNP O66529
ND	62	ILE	VAL	conflict	UNP O66529
ND	97	TYR	PHE	conflict	UNP O66529
ND	102	GLY	-	expression tag	UNP O66529
ND	103	THR	-	expression tag	UNP O66529
ND	104	GLU	-	expression tag	UNP O66529
ND	105	HIS	-	expression tag	UNP O66529
ND	106	HIS	-	expression tag	UNP O66529
ND	107	HIS	-	expression tag	UNP O66529
ND	108	HIS	-	expression tag	UNP O66529
ND	109	LEU	-	expression tag	UNP O66529
ND	110	HIS	-	expression tag	UNP O66529
ND	111	GLY	-	expression tag	UNP O66529
ND	112	SER	-	expression tag	UNP O66529
ND	113	SER	-	expression tag	UNP O66529
OA	1	MET	-	initiating methionine	UNP O66529
OA	2	GLY	-	expression tag	UNP O66529
OA	3	ASN	-	expression tag	UNP O66529
OA	4	ALA	-	expression tag	UNP O66529
OA	5	ARG	-	expression tag	UNP O66529
OA	6	THR	-	expression tag	UNP O66529
OA	7	ARG	-	expression tag	UNP O66529
OA	8	ARG	-	expression tag	UNP O66529
OA	9	ARG	-	expression tag	UNP O66529
OA	10	GLU	-	expression tag	UNP O66529
OA	11	ARG	-	expression tag	UNP O66529
OA	12	ARG	-	expression tag	UNP O66529
OA	13	ALA	-	expression tag	UNP O66529
OA	14	GLU	-	expression tag	UNP O66529
OA	15	LYS	-	expression tag	UNP O66529
OA	16	GLN	-	expression tag	UNP O66529
OA	17	ALA	-	expression tag	UNP O66529
OA	18	GLN	-	expression tag	UNP O66529
OA	19	TRP	-	expression tag	UNP O66529
OA	20	LYS	-	expression tag	UNP O66529
OA	21	ALA	-	expression tag	UNP O66529
OA	22	ALA	-	expression tag	UNP O66529
OA	23	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
OA	24	ALA	-	expression tag	UNP O66529
OA	25	GLY	-	expression tag	UNP O66529
OA	26	ALA	-	expression tag	UNP O66529
OA	27	GLY	-	expression tag	UNP O66529
OA	28	ALA	-	expression tag	UNP O66529
OA	29	GLY	-	expression tag	UNP O66529
OA	30	ALA	-	expression tag	UNP O66529
OA	31	MET	-	expression tag	UNP O66529
OA	39	ASN	ILE	conflict	UNP O66529
OA	42	VAL	GLU	conflict	UNP O66529
OA	58	VAL	ILE	conflict	UNP O66529
OA	59	SER	THR	conflict	UNP O66529
OA	61	ASP	GLY	conflict	UNP O66529
OA	62	ILE	VAL	conflict	UNP O66529
OA	97	TYR	PHE	conflict	UNP O66529
OA	102	GLY	-	expression tag	UNP O66529
OA	103	THR	-	expression tag	UNP O66529
OA	104	GLU	-	expression tag	UNP O66529
OA	105	HIS	-	expression tag	UNP O66529
OA	106	HIS	-	expression tag	UNP O66529
OA	107	HIS	-	expression tag	UNP O66529
OA	108	HIS	-	expression tag	UNP O66529
OA	109	LEU	-	expression tag	UNP O66529
OA	110	HIS	-	expression tag	UNP O66529
OA	111	GLY	-	expression tag	UNP O66529
OA	112	SER	-	expression tag	UNP O66529
OA	113	SER	-	expression tag	UNP O66529
OB	1	MET	-	initiating methionine	UNP O66529
OB	2	GLY	-	expression tag	UNP O66529
OB	3	ASN	-	expression tag	UNP O66529
OB	4	ALA	-	expression tag	UNP O66529
OB	5	ARG	-	expression tag	UNP O66529
OB	6	THR	-	expression tag	UNP O66529
OB	7	ARG	-	expression tag	UNP O66529
OB	8	ARG	-	expression tag	UNP O66529
OB	9	ARG	-	expression tag	UNP O66529
OB	10	GLU	-	expression tag	UNP O66529
OB	11	ARG	-	expression tag	UNP O66529
OB	12	ARG	-	expression tag	UNP O66529
OB	13	ALA	-	expression tag	UNP O66529
OB	14	GLU	-	expression tag	UNP O66529
OB	15	LYS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
OB	16	GLN	-	expression tag	UNP O66529
OB	17	ALA	-	expression tag	UNP O66529
OB	18	GLN	-	expression tag	UNP O66529
OB	19	TRP	-	expression tag	UNP O66529
OB	20	LYS	-	expression tag	UNP O66529
OB	21	ALA	-	expression tag	UNP O66529
OB	22	ALA	-	expression tag	UNP O66529
OB	23	ASN	-	expression tag	UNP O66529
OB	24	ALA	-	expression tag	UNP O66529
OB	25	GLY	-	expression tag	UNP O66529
OB	26	ALA	-	expression tag	UNP O66529
OB	27	GLY	-	expression tag	UNP O66529
OB	28	ALA	-	expression tag	UNP O66529
OB	29	GLY	-	expression tag	UNP O66529
OB	30	ALA	-	expression tag	UNP O66529
OB	31	MET	-	expression tag	UNP O66529
OB	39	ASN	ILE	conflict	UNP O66529
OB	42	VAL	GLU	conflict	UNP O66529
OB	58	VAL	ILE	conflict	UNP O66529
OB	59	SER	THR	conflict	UNP O66529
OB	61	ASP	GLY	conflict	UNP O66529
OB	62	ILE	VAL	conflict	UNP O66529
OB	97	TYR	PHE	conflict	UNP O66529
OB	102	GLY	-	expression tag	UNP O66529
OB	103	THR	-	expression tag	UNP O66529
OB	104	GLU	-	expression tag	UNP O66529
OB	105	HIS	-	expression tag	UNP O66529
OB	106	HIS	-	expression tag	UNP O66529
OB	107	HIS	-	expression tag	UNP O66529
OB	108	HIS	-	expression tag	UNP O66529
OB	109	LEU	-	expression tag	UNP O66529
OB	110	HIS	-	expression tag	UNP O66529
OB	111	GLY	-	expression tag	UNP O66529
OB	112	SER	-	expression tag	UNP O66529
OB	113	SER	-	expression tag	UNP O66529
OC	1	MET	-	initiating methionine	UNP O66529
OC	2	GLY	-	expression tag	UNP O66529
OC	3	ASN	-	expression tag	UNP O66529
OC	4	ALA	-	expression tag	UNP O66529
OC	5	ARG	-	expression tag	UNP O66529
OC	6	THR	-	expression tag	UNP O66529
OC	7	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
OC	8	ARG	-	expression tag	UNP O66529
OC	9	ARG	-	expression tag	UNP O66529
OC	10	GLU	-	expression tag	UNP O66529
OC	11	ARG	-	expression tag	UNP O66529
OC	12	ARG	-	expression tag	UNP O66529
OC	13	ALA	-	expression tag	UNP O66529
OC	14	GLU	-	expression tag	UNP O66529
OC	15	LYS	-	expression tag	UNP O66529
OC	16	GLN	-	expression tag	UNP O66529
OC	17	ALA	-	expression tag	UNP O66529
OC	18	GLN	-	expression tag	UNP O66529
OC	19	TRP	-	expression tag	UNP O66529
OC	20	LYS	-	expression tag	UNP O66529
OC	21	ALA	-	expression tag	UNP O66529
OC	22	ALA	-	expression tag	UNP O66529
OC	23	ASN	-	expression tag	UNP O66529
OC	24	ALA	-	expression tag	UNP O66529
OC	25	GLY	-	expression tag	UNP O66529
OC	26	ALA	-	expression tag	UNP O66529
OC	27	GLY	-	expression tag	UNP O66529
OC	28	ALA	-	expression tag	UNP O66529
OC	29	GLY	-	expression tag	UNP O66529
OC	30	ALA	-	expression tag	UNP O66529
OC	31	MET	-	expression tag	UNP O66529
OC	39	ASN	ILE	conflict	UNP O66529
OC	42	VAL	GLU	conflict	UNP O66529
OC	58	VAL	ILE	conflict	UNP O66529
OC	59	SER	THR	conflict	UNP O66529
OC	61	ASP	GLY	conflict	UNP O66529
OC	62	ILE	VAL	conflict	UNP O66529
OC	97	TYR	PHE	conflict	UNP O66529
OC	102	GLY	-	expression tag	UNP O66529
OC	103	THR	-	expression tag	UNP O66529
OC	104	GLU	-	expression tag	UNP O66529
OC	105	HIS	-	expression tag	UNP O66529
OC	106	HIS	-	expression tag	UNP O66529
OC	107	HIS	-	expression tag	UNP O66529
OC	108	HIS	-	expression tag	UNP O66529
OC	109	LEU	-	expression tag	UNP O66529
OC	110	HIS	-	expression tag	UNP O66529
OC	111	GLY	-	expression tag	UNP O66529
OC	112	SER	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
OC	113	SER	-	expression tag	UNP O66529
OD	1	MET	-	initiating methionine	UNP O66529
OD	2	GLY	-	expression tag	UNP O66529
OD	3	ASN	-	expression tag	UNP O66529
OD	4	ALA	-	expression tag	UNP O66529
OD	5	ARG	-	expression tag	UNP O66529
OD	6	THR	-	expression tag	UNP O66529
OD	7	ARG	-	expression tag	UNP O66529
OD	8	ARG	-	expression tag	UNP O66529
OD	9	ARG	-	expression tag	UNP O66529
OD	10	GLU	-	expression tag	UNP O66529
OD	11	ARG	-	expression tag	UNP O66529
OD	12	ARG	-	expression tag	UNP O66529
OD	13	ALA	-	expression tag	UNP O66529
OD	14	GLU	-	expression tag	UNP O66529
OD	15	LYS	-	expression tag	UNP O66529
OD	16	GLN	-	expression tag	UNP O66529
OD	17	ALA	-	expression tag	UNP O66529
OD	18	GLN	-	expression tag	UNP O66529
OD	19	TRP	-	expression tag	UNP O66529
OD	20	LYS	-	expression tag	UNP O66529
OD	21	ALA	-	expression tag	UNP O66529
OD	22	ALA	-	expression tag	UNP O66529
OD	23	ASN	-	expression tag	UNP O66529
OD	24	ALA	-	expression tag	UNP O66529
OD	25	GLY	-	expression tag	UNP O66529
OD	26	ALA	-	expression tag	UNP O66529
OD	27	GLY	-	expression tag	UNP O66529
OD	28	ALA	-	expression tag	UNP O66529
OD	29	GLY	-	expression tag	UNP O66529
OD	30	ALA	-	expression tag	UNP O66529
OD	31	MET	-	expression tag	UNP O66529
OD	39	ASN	ILE	conflict	UNP O66529
OD	42	VAL	GLU	conflict	UNP O66529
OD	58	VAL	ILE	conflict	UNP O66529
OD	59	SER	THR	conflict	UNP O66529
OD	61	ASP	GLY	conflict	UNP O66529
OD	62	ILE	VAL	conflict	UNP O66529
OD	97	TYR	PHE	conflict	UNP O66529
OD	102	GLY	-	expression tag	UNP O66529
OD	103	THR	-	expression tag	UNP O66529
OD	104	GLU	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
OD	105	HIS	-	expression tag	UNP O66529
OD	106	HIS	-	expression tag	UNP O66529
OD	107	HIS	-	expression tag	UNP O66529
OD	108	HIS	-	expression tag	UNP O66529
OD	109	LEU	-	expression tag	UNP O66529
OD	110	HIS	-	expression tag	UNP O66529
OD	111	GLY	-	expression tag	UNP O66529
OD	112	SER	-	expression tag	UNP O66529
OD	113	SER	-	expression tag	UNP O66529
PA	1	MET	-	initiating methionine	UNP O66529
PA	2	GLY	-	expression tag	UNP O66529
PA	3	ASN	-	expression tag	UNP O66529
PA	4	ALA	-	expression tag	UNP O66529
PA	5	ARG	-	expression tag	UNP O66529
PA	6	THR	-	expression tag	UNP O66529
PA	7	ARG	-	expression tag	UNP O66529
PA	8	ARG	-	expression tag	UNP O66529
PA	9	ARG	-	expression tag	UNP O66529
PA	10	GLU	-	expression tag	UNP O66529
PA	11	ARG	-	expression tag	UNP O66529
PA	12	ARG	-	expression tag	UNP O66529
PA	13	ALA	-	expression tag	UNP O66529
PA	14	GLU	-	expression tag	UNP O66529
PA	15	LYS	-	expression tag	UNP O66529
PA	16	GLN	-	expression tag	UNP O66529
PA	17	ALA	-	expression tag	UNP O66529
PA	18	GLN	-	expression tag	UNP O66529
PA	19	TRP	-	expression tag	UNP O66529
PA	20	LYS	-	expression tag	UNP O66529
PA	21	ALA	-	expression tag	UNP O66529
PA	22	ALA	-	expression tag	UNP O66529
PA	23	ASN	-	expression tag	UNP O66529
PA	24	ALA	-	expression tag	UNP O66529
PA	25	GLY	-	expression tag	UNP O66529
PA	26	ALA	-	expression tag	UNP O66529
PA	27	GLY	-	expression tag	UNP O66529
PA	28	ALA	-	expression tag	UNP O66529
PA	29	GLY	-	expression tag	UNP O66529
PA	30	ALA	-	expression tag	UNP O66529
PA	31	MET	-	expression tag	UNP O66529
PA	39	ASN	ILE	conflict	UNP O66529
PA	42	VAL	GLU	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
PA	58	VAL	ILE	conflict	UNP O66529
PA	59	SER	THR	conflict	UNP O66529
PA	61	ASP	GLY	conflict	UNP O66529
PA	62	ILE	VAL	conflict	UNP O66529
PA	97	TYR	PHE	conflict	UNP O66529
PA	102	GLY	-	expression tag	UNP O66529
PA	103	THR	-	expression tag	UNP O66529
PA	104	GLU	-	expression tag	UNP O66529
PA	105	HIS	-	expression tag	UNP O66529
PA	106	HIS	-	expression tag	UNP O66529
PA	107	HIS	-	expression tag	UNP O66529
PA	108	HIS	-	expression tag	UNP O66529
PA	109	LEU	-	expression tag	UNP O66529
PA	110	HIS	-	expression tag	UNP O66529
PA	111	GLY	-	expression tag	UNP O66529
PA	112	SER	-	expression tag	UNP O66529
PA	113	SER	-	expression tag	UNP O66529
PB	1	MET	-	initiating methionine	UNP O66529
PB	2	GLY	-	expression tag	UNP O66529
PB	3	ASN	-	expression tag	UNP O66529
PB	4	ALA	-	expression tag	UNP O66529
PB	5	ARG	-	expression tag	UNP O66529
PB	6	THR	-	expression tag	UNP O66529
PB	7	ARG	-	expression tag	UNP O66529
PB	8	ARG	-	expression tag	UNP O66529
PB	9	ARG	-	expression tag	UNP O66529
PB	10	GLU	-	expression tag	UNP O66529
PB	11	ARG	-	expression tag	UNP O66529
PB	12	ARG	-	expression tag	UNP O66529
PB	13	ALA	-	expression tag	UNP O66529
PB	14	GLU	-	expression tag	UNP O66529
PB	15	LYS	-	expression tag	UNP O66529
PB	16	GLN	-	expression tag	UNP O66529
PB	17	ALA	-	expression tag	UNP O66529
PB	18	GLN	-	expression tag	UNP O66529
PB	19	TRP	-	expression tag	UNP O66529
PB	20	LYS	-	expression tag	UNP O66529
PB	21	ALA	-	expression tag	UNP O66529
PB	22	ALA	-	expression tag	UNP O66529
PB	23	ASN	-	expression tag	UNP O66529
PB	24	ALA	-	expression tag	UNP O66529
PB	25	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
PB	26	ALA	-	expression tag	UNP O66529
PB	27	GLY	-	expression tag	UNP O66529
PB	28	ALA	-	expression tag	UNP O66529
PB	29	GLY	-	expression tag	UNP O66529
PB	30	ALA	-	expression tag	UNP O66529
PB	31	MET	-	expression tag	UNP O66529
PB	39	ASN	ILE	conflict	UNP O66529
PB	42	VAL	GLU	conflict	UNP O66529
PB	58	VAL	ILE	conflict	UNP O66529
PB	59	SER	THR	conflict	UNP O66529
PB	61	ASP	GLY	conflict	UNP O66529
PB	62	ILE	VAL	conflict	UNP O66529
PB	97	TYR	PHE	conflict	UNP O66529
PB	102	GLY	-	expression tag	UNP O66529
PB	103	THR	-	expression tag	UNP O66529
PB	104	GLU	-	expression tag	UNP O66529
PB	105	HIS	-	expression tag	UNP O66529
PB	106	HIS	-	expression tag	UNP O66529
PB	107	HIS	-	expression tag	UNP O66529
PB	108	HIS	-	expression tag	UNP O66529
PB	109	LEU	-	expression tag	UNP O66529
PB	110	HIS	-	expression tag	UNP O66529
PB	111	GLY	-	expression tag	UNP O66529
PB	112	SER	-	expression tag	UNP O66529
PB	113	SER	-	expression tag	UNP O66529
PC	1	MET	-	initiating methionine	UNP O66529
PC	2	GLY	-	expression tag	UNP O66529
PC	3	ASN	-	expression tag	UNP O66529
PC	4	ALA	-	expression tag	UNP O66529
PC	5	ARG	-	expression tag	UNP O66529
PC	6	THR	-	expression tag	UNP O66529
PC	7	ARG	-	expression tag	UNP O66529
PC	8	ARG	-	expression tag	UNP O66529
PC	9	ARG	-	expression tag	UNP O66529
PC	10	GLU	-	expression tag	UNP O66529
PC	11	ARG	-	expression tag	UNP O66529
PC	12	ARG	-	expression tag	UNP O66529
PC	13	ALA	-	expression tag	UNP O66529
PC	14	GLU	-	expression tag	UNP O66529
PC	15	LYS	-	expression tag	UNP O66529
PC	16	GLN	-	expression tag	UNP O66529
PC	17	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
PC	18	GLN	-	expression tag	UNP O66529
PC	19	TRP	-	expression tag	UNP O66529
PC	20	LYS	-	expression tag	UNP O66529
PC	21	ALA	-	expression tag	UNP O66529
PC	22	ALA	-	expression tag	UNP O66529
PC	23	ASN	-	expression tag	UNP O66529
PC	24	ALA	-	expression tag	UNP O66529
PC	25	GLY	-	expression tag	UNP O66529
PC	26	ALA	-	expression tag	UNP O66529
PC	27	GLY	-	expression tag	UNP O66529
PC	28	ALA	-	expression tag	UNP O66529
PC	29	GLY	-	expression tag	UNP O66529
PC	30	ALA	-	expression tag	UNP O66529
PC	31	MET	-	expression tag	UNP O66529
PC	39	ASN	ILE	conflict	UNP O66529
PC	42	VAL	GLU	conflict	UNP O66529
PC	58	VAL	ILE	conflict	UNP O66529
PC	59	SER	THR	conflict	UNP O66529
PC	61	ASP	GLY	conflict	UNP O66529
PC	62	ILE	VAL	conflict	UNP O66529
PC	97	TYR	PHE	conflict	UNP O66529
PC	102	GLY	-	expression tag	UNP O66529
PC	103	THR	-	expression tag	UNP O66529
PC	104	GLU	-	expression tag	UNP O66529
PC	105	HIS	-	expression tag	UNP O66529
PC	106	HIS	-	expression tag	UNP O66529
PC	107	HIS	-	expression tag	UNP O66529
PC	108	HIS	-	expression tag	UNP O66529
PC	109	LEU	-	expression tag	UNP O66529
PC	110	HIS	-	expression tag	UNP O66529
PC	111	GLY	-	expression tag	UNP O66529
PC	112	SER	-	expression tag	UNP O66529
PC	113	SER	-	expression tag	UNP O66529
PD	1	MET	-	initiating methionine	UNP O66529
PD	2	GLY	-	expression tag	UNP O66529
PD	3	ASN	-	expression tag	UNP O66529
PD	4	ALA	-	expression tag	UNP O66529
PD	5	ARG	-	expression tag	UNP O66529
PD	6	THR	-	expression tag	UNP O66529
PD	7	ARG	-	expression tag	UNP O66529
PD	8	ARG	-	expression tag	UNP O66529
PD	9	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
PD	10	GLU	-	expression tag	UNP O66529
PD	11	ARG	-	expression tag	UNP O66529
PD	12	ARG	-	expression tag	UNP O66529
PD	13	ALA	-	expression tag	UNP O66529
PD	14	GLU	-	expression tag	UNP O66529
PD	15	LYS	-	expression tag	UNP O66529
PD	16	GLN	-	expression tag	UNP O66529
PD	17	ALA	-	expression tag	UNP O66529
PD	18	GLN	-	expression tag	UNP O66529
PD	19	TRP	-	expression tag	UNP O66529
PD	20	LYS	-	expression tag	UNP O66529
PD	21	ALA	-	expression tag	UNP O66529
PD	22	ALA	-	expression tag	UNP O66529
PD	23	ASN	-	expression tag	UNP O66529
PD	24	ALA	-	expression tag	UNP O66529
PD	25	GLY	-	expression tag	UNP O66529
PD	26	ALA	-	expression tag	UNP O66529
PD	27	GLY	-	expression tag	UNP O66529
PD	28	ALA	-	expression tag	UNP O66529
PD	29	GLY	-	expression tag	UNP O66529
PD	30	ALA	-	expression tag	UNP O66529
PD	31	MET	-	expression tag	UNP O66529
PD	39	ASN	ILE	conflict	UNP O66529
PD	42	VAL	GLU	conflict	UNP O66529
PD	58	VAL	ILE	conflict	UNP O66529
PD	59	SER	THR	conflict	UNP O66529
PD	61	ASP	GLY	conflict	UNP O66529
PD	62	ILE	VAL	conflict	UNP O66529
PD	97	TYR	PHE	conflict	UNP O66529
PD	102	GLY	-	expression tag	UNP O66529
PD	103	THR	-	expression tag	UNP O66529
PD	104	GLU	-	expression tag	UNP O66529
PD	105	HIS	-	expression tag	UNP O66529
PD	106	HIS	-	expression tag	UNP O66529
PD	107	HIS	-	expression tag	UNP O66529
PD	108	HIS	-	expression tag	UNP O66529
PD	109	LEU	-	expression tag	UNP O66529
PD	110	HIS	-	expression tag	UNP O66529
PD	111	GLY	-	expression tag	UNP O66529
PD	112	SER	-	expression tag	UNP O66529
PD	113	SER	-	expression tag	UNP O66529
QA	1	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
QA	2	GLY	-	expression tag	UNP O66529
QA	3	ASN	-	expression tag	UNP O66529
QA	4	ALA	-	expression tag	UNP O66529
QA	5	ARG	-	expression tag	UNP O66529
QA	6	THR	-	expression tag	UNP O66529
QA	7	ARG	-	expression tag	UNP O66529
QA	8	ARG	-	expression tag	UNP O66529
QA	9	ARG	-	expression tag	UNP O66529
QA	10	GLU	-	expression tag	UNP O66529
QA	11	ARG	-	expression tag	UNP O66529
QA	12	ARG	-	expression tag	UNP O66529
QA	13	ALA	-	expression tag	UNP O66529
QA	14	GLU	-	expression tag	UNP O66529
QA	15	LYS	-	expression tag	UNP O66529
QA	16	GLN	-	expression tag	UNP O66529
QA	17	ALA	-	expression tag	UNP O66529
QA	18	GLN	-	expression tag	UNP O66529
QA	19	TRP	-	expression tag	UNP O66529
QA	20	LYS	-	expression tag	UNP O66529
QA	21	ALA	-	expression tag	UNP O66529
QA	22	ALA	-	expression tag	UNP O66529
QA	23	ASN	-	expression tag	UNP O66529
QA	24	ALA	-	expression tag	UNP O66529
QA	25	GLY	-	expression tag	UNP O66529
QA	26	ALA	-	expression tag	UNP O66529
QA	27	GLY	-	expression tag	UNP O66529
QA	28	ALA	-	expression tag	UNP O66529
QA	29	GLY	-	expression tag	UNP O66529
QA	30	ALA	-	expression tag	UNP O66529
QA	31	MET	-	expression tag	UNP O66529
QA	39	ASN	ILE	conflict	UNP O66529
QA	42	VAL	GLU	conflict	UNP O66529
QA	58	VAL	ILE	conflict	UNP O66529
QA	59	SER	THR	conflict	UNP O66529
QA	61	ASP	GLY	conflict	UNP O66529
QA	62	ILE	VAL	conflict	UNP O66529
QA	97	TYR	PHE	conflict	UNP O66529
QA	102	GLY	-	expression tag	UNP O66529
QA	103	THR	-	expression tag	UNP O66529
QA	104	GLU	-	expression tag	UNP O66529
QA	105	HIS	-	expression tag	UNP O66529
QA	106	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
QA	107	HIS	-	expression tag	UNP O66529
QA	108	HIS	-	expression tag	UNP O66529
QA	109	LEU	-	expression tag	UNP O66529
QA	110	HIS	-	expression tag	UNP O66529
QA	111	GLY	-	expression tag	UNP O66529
QA	112	SER	-	expression tag	UNP O66529
QA	113	SER	-	expression tag	UNP O66529
QB	1	MET	-	initiating methionine	UNP O66529
QB	2	GLY	-	expression tag	UNP O66529
QB	3	ASN	-	expression tag	UNP O66529
QB	4	ALA	-	expression tag	UNP O66529
QB	5	ARG	-	expression tag	UNP O66529
QB	6	THR	-	expression tag	UNP O66529
QB	7	ARG	-	expression tag	UNP O66529
QB	8	ARG	-	expression tag	UNP O66529
QB	9	ARG	-	expression tag	UNP O66529
QB	10	GLU	-	expression tag	UNP O66529
QB	11	ARG	-	expression tag	UNP O66529
QB	12	ARG	-	expression tag	UNP O66529
QB	13	ALA	-	expression tag	UNP O66529
QB	14	GLU	-	expression tag	UNP O66529
QB	15	LYS	-	expression tag	UNP O66529
QB	16	GLN	-	expression tag	UNP O66529
QB	17	ALA	-	expression tag	UNP O66529
QB	18	GLN	-	expression tag	UNP O66529
QB	19	TRP	-	expression tag	UNP O66529
QB	20	LYS	-	expression tag	UNP O66529
QB	21	ALA	-	expression tag	UNP O66529
QB	22	ALA	-	expression tag	UNP O66529
QB	23	ASN	-	expression tag	UNP O66529
QB	24	ALA	-	expression tag	UNP O66529
QB	25	GLY	-	expression tag	UNP O66529
QB	26	ALA	-	expression tag	UNP O66529
QB	27	GLY	-	expression tag	UNP O66529
QB	28	ALA	-	expression tag	UNP O66529
QB	29	GLY	-	expression tag	UNP O66529
QB	30	ALA	-	expression tag	UNP O66529
QB	31	MET	-	expression tag	UNP O66529
QB	39	ASN	ILE	conflict	UNP O66529
QB	42	VAL	GLU	conflict	UNP O66529
QB	58	VAL	ILE	conflict	UNP O66529
QB	59	SER	THR	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
QB	61	ASP	GLY	conflict	UNP O66529
QB	62	ILE	VAL	conflict	UNP O66529
QB	97	TYR	PHE	conflict	UNP O66529
QB	102	GLY	-	expression tag	UNP O66529
QB	103	THR	-	expression tag	UNP O66529
QB	104	GLU	-	expression tag	UNP O66529
QB	105	HIS	-	expression tag	UNP O66529
QB	106	HIS	-	expression tag	UNP O66529
QB	107	HIS	-	expression tag	UNP O66529
QB	108	HIS	-	expression tag	UNP O66529
QB	109	LEU	-	expression tag	UNP O66529
QB	110	HIS	-	expression tag	UNP O66529
QB	111	GLY	-	expression tag	UNP O66529
QB	112	SER	-	expression tag	UNP O66529
QB	113	SER	-	expression tag	UNP O66529
QC	1	MET	-	initiating methionine	UNP O66529
QC	2	GLY	-	expression tag	UNP O66529
QC	3	ASN	-	expression tag	UNP O66529
QC	4	ALA	-	expression tag	UNP O66529
QC	5	ARG	-	expression tag	UNP O66529
QC	6	THR	-	expression tag	UNP O66529
QC	7	ARG	-	expression tag	UNP O66529
QC	8	ARG	-	expression tag	UNP O66529
QC	9	ARG	-	expression tag	UNP O66529
QC	10	GLU	-	expression tag	UNP O66529
QC	11	ARG	-	expression tag	UNP O66529
QC	12	ARG	-	expression tag	UNP O66529
QC	13	ALA	-	expression tag	UNP O66529
QC	14	GLU	-	expression tag	UNP O66529
QC	15	LYS	-	expression tag	UNP O66529
QC	16	GLN	-	expression tag	UNP O66529
QC	17	ALA	-	expression tag	UNP O66529
QC	18	GLN	-	expression tag	UNP O66529
QC	19	TRP	-	expression tag	UNP O66529
QC	20	LYS	-	expression tag	UNP O66529
QC	21	ALA	-	expression tag	UNP O66529
QC	22	ALA	-	expression tag	UNP O66529
QC	23	ASN	-	expression tag	UNP O66529
QC	24	ALA	-	expression tag	UNP O66529
QC	25	GLY	-	expression tag	UNP O66529
QC	26	ALA	-	expression tag	UNP O66529
QC	27	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
QC	28	ALA	-	expression tag	UNP O66529
QC	29	GLY	-	expression tag	UNP O66529
QC	30	ALA	-	expression tag	UNP O66529
QC	31	MET	-	expression tag	UNP O66529
QC	39	ASN	ILE	conflict	UNP O66529
QC	42	VAL	GLU	conflict	UNP O66529
QC	58	VAL	ILE	conflict	UNP O66529
QC	59	SER	THR	conflict	UNP O66529
QC	61	ASP	GLY	conflict	UNP O66529
QC	62	ILE	VAL	conflict	UNP O66529
QC	97	TYR	PHE	conflict	UNP O66529
QC	102	GLY	-	expression tag	UNP O66529
QC	103	THR	-	expression tag	UNP O66529
QC	104	GLU	-	expression tag	UNP O66529
QC	105	HIS	-	expression tag	UNP O66529
QC	106	HIS	-	expression tag	UNP O66529
QC	107	HIS	-	expression tag	UNP O66529
QC	108	HIS	-	expression tag	UNP O66529
QC	109	LEU	-	expression tag	UNP O66529
QC	110	HIS	-	expression tag	UNP O66529
QC	111	GLY	-	expression tag	UNP O66529
QC	112	SER	-	expression tag	UNP O66529
QC	113	SER	-	expression tag	UNP O66529
QD	1	MET	-	initiating methionine	UNP O66529
QD	2	GLY	-	expression tag	UNP O66529
QD	3	ASN	-	expression tag	UNP O66529
QD	4	ALA	-	expression tag	UNP O66529
QD	5	ARG	-	expression tag	UNP O66529
QD	6	THR	-	expression tag	UNP O66529
QD	7	ARG	-	expression tag	UNP O66529
QD	8	ARG	-	expression tag	UNP O66529
QD	9	ARG	-	expression tag	UNP O66529
QD	10	GLU	-	expression tag	UNP O66529
QD	11	ARG	-	expression tag	UNP O66529
QD	12	ARG	-	expression tag	UNP O66529
QD	13	ALA	-	expression tag	UNP O66529
QD	14	GLU	-	expression tag	UNP O66529
QD	15	LYS	-	expression tag	UNP O66529
QD	16	GLN	-	expression tag	UNP O66529
QD	17	ALA	-	expression tag	UNP O66529
QD	18	GLN	-	expression tag	UNP O66529
QD	19	TRP	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
QD	20	LYS	-	expression tag	UNP O66529
QD	21	ALA	-	expression tag	UNP O66529
QD	22	ALA	-	expression tag	UNP O66529
QD	23	ASN	-	expression tag	UNP O66529
QD	24	ALA	-	expression tag	UNP O66529
QD	25	GLY	-	expression tag	UNP O66529
QD	26	ALA	-	expression tag	UNP O66529
QD	27	GLY	-	expression tag	UNP O66529
QD	28	ALA	-	expression tag	UNP O66529
QD	29	GLY	-	expression tag	UNP O66529
QD	30	ALA	-	expression tag	UNP O66529
QD	31	MET	-	expression tag	UNP O66529
QD	39	ASN	ILE	conflict	UNP O66529
QD	42	VAL	GLU	conflict	UNP O66529
QD	58	VAL	ILE	conflict	UNP O66529
QD	59	SER	THR	conflict	UNP O66529
QD	61	ASP	GLY	conflict	UNP O66529
QD	62	ILE	VAL	conflict	UNP O66529
QD	97	TYR	PHE	conflict	UNP O66529
QD	102	GLY	-	expression tag	UNP O66529
QD	103	THR	-	expression tag	UNP O66529
QD	104	GLU	-	expression tag	UNP O66529
QD	105	HIS	-	expression tag	UNP O66529
QD	106	HIS	-	expression tag	UNP O66529
QD	107	HIS	-	expression tag	UNP O66529
QD	108	HIS	-	expression tag	UNP O66529
QD	109	LEU	-	expression tag	UNP O66529
QD	110	HIS	-	expression tag	UNP O66529
QD	111	GLY	-	expression tag	UNP O66529
QD	112	SER	-	expression tag	UNP O66529
QD	113	SER	-	expression tag	UNP O66529
RA	1	MET	-	initiating methionine	UNP O66529
RA	2	GLY	-	expression tag	UNP O66529
RA	3	ASN	-	expression tag	UNP O66529
RA	4	ALA	-	expression tag	UNP O66529
RA	5	ARG	-	expression tag	UNP O66529
RA	6	THR	-	expression tag	UNP O66529
RA	7	ARG	-	expression tag	UNP O66529
RA	8	ARG	-	expression tag	UNP O66529
RA	9	ARG	-	expression tag	UNP O66529
RA	10	GLU	-	expression tag	UNP O66529
RA	11	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
RA	12	ARG	-	expression tag	UNP O66529
RA	13	ALA	-	expression tag	UNP O66529
RA	14	GLU	-	expression tag	UNP O66529
RA	15	LYS	-	expression tag	UNP O66529
RA	16	GLN	-	expression tag	UNP O66529
RA	17	ALA	-	expression tag	UNP O66529
RA	18	GLN	-	expression tag	UNP O66529
RA	19	TRP	-	expression tag	UNP O66529
RA	20	LYS	-	expression tag	UNP O66529
RA	21	ALA	-	expression tag	UNP O66529
RA	22	ALA	-	expression tag	UNP O66529
RA	23	ASN	-	expression tag	UNP O66529
RA	24	ALA	-	expression tag	UNP O66529
RA	25	GLY	-	expression tag	UNP O66529
RA	26	ALA	-	expression tag	UNP O66529
RA	27	GLY	-	expression tag	UNP O66529
RA	28	ALA	-	expression tag	UNP O66529
RA	29	GLY	-	expression tag	UNP O66529
RA	30	ALA	-	expression tag	UNP O66529
RA	31	MET	-	expression tag	UNP O66529
RA	39	ASN	ILE	conflict	UNP O66529
RA	42	VAL	GLU	conflict	UNP O66529
RA	58	VAL	ILE	conflict	UNP O66529
RA	59	SER	THR	conflict	UNP O66529
RA	61	ASP	GLY	conflict	UNP O66529
RA	62	ILE	VAL	conflict	UNP O66529
RA	97	TYR	PHE	conflict	UNP O66529
RA	102	GLY	-	expression tag	UNP O66529
RA	103	THR	-	expression tag	UNP O66529
RA	104	GLU	-	expression tag	UNP O66529
RA	105	HIS	-	expression tag	UNP O66529
RA	106	HIS	-	expression tag	UNP O66529
RA	107	HIS	-	expression tag	UNP O66529
RA	108	HIS	-	expression tag	UNP O66529
RA	109	LEU	-	expression tag	UNP O66529
RA	110	HIS	-	expression tag	UNP O66529
RA	111	GLY	-	expression tag	UNP O66529
RA	112	SER	-	expression tag	UNP O66529
RA	113	SER	-	expression tag	UNP O66529
RB	1	MET	-	initiating methionine	UNP O66529
RB	2	GLY	-	expression tag	UNP O66529
RB	3	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
RB	4	ALA	-	expression tag	UNP O66529
RB	5	ARG	-	expression tag	UNP O66529
RB	6	THR	-	expression tag	UNP O66529
RB	7	ARG	-	expression tag	UNP O66529
RB	8	ARG	-	expression tag	UNP O66529
RB	9	ARG	-	expression tag	UNP O66529
RB	10	GLU	-	expression tag	UNP O66529
RB	11	ARG	-	expression tag	UNP O66529
RB	12	ARG	-	expression tag	UNP O66529
RB	13	ALA	-	expression tag	UNP O66529
RB	14	GLU	-	expression tag	UNP O66529
RB	15	LYS	-	expression tag	UNP O66529
RB	16	GLN	-	expression tag	UNP O66529
RB	17	ALA	-	expression tag	UNP O66529
RB	18	GLN	-	expression tag	UNP O66529
RB	19	TRP	-	expression tag	UNP O66529
RB	20	LYS	-	expression tag	UNP O66529
RB	21	ALA	-	expression tag	UNP O66529
RB	22	ALA	-	expression tag	UNP O66529
RB	23	ASN	-	expression tag	UNP O66529
RB	24	ALA	-	expression tag	UNP O66529
RB	25	GLY	-	expression tag	UNP O66529
RB	26	ALA	-	expression tag	UNP O66529
RB	27	GLY	-	expression tag	UNP O66529
RB	28	ALA	-	expression tag	UNP O66529
RB	29	GLY	-	expression tag	UNP O66529
RB	30	ALA	-	expression tag	UNP O66529
RB	31	MET	-	expression tag	UNP O66529
RB	39	ASN	ILE	conflict	UNP O66529
RB	42	VAL	GLU	conflict	UNP O66529
RB	58	VAL	ILE	conflict	UNP O66529
RB	59	SER	THR	conflict	UNP O66529
RB	61	ASP	GLY	conflict	UNP O66529
RB	62	ILE	VAL	conflict	UNP O66529
RB	97	TYR	PHE	conflict	UNP O66529
RB	102	GLY	-	expression tag	UNP O66529
RB	103	THR	-	expression tag	UNP O66529
RB	104	GLU	-	expression tag	UNP O66529
RB	105	HIS	-	expression tag	UNP O66529
RB	106	HIS	-	expression tag	UNP O66529
RB	107	HIS	-	expression tag	UNP O66529
RB	108	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
RB	109	LEU	-	expression tag	UNP O66529
RB	110	HIS	-	expression tag	UNP O66529
RB	111	GLY	-	expression tag	UNP O66529
RB	112	SER	-	expression tag	UNP O66529
RB	113	SER	-	expression tag	UNP O66529
RC	1	MET	-	initiating methionine	UNP O66529
RC	2	GLY	-	expression tag	UNP O66529
RC	3	ASN	-	expression tag	UNP O66529
RC	4	ALA	-	expression tag	UNP O66529
RC	5	ARG	-	expression tag	UNP O66529
RC	6	THR	-	expression tag	UNP O66529
RC	7	ARG	-	expression tag	UNP O66529
RC	8	ARG	-	expression tag	UNP O66529
RC	9	ARG	-	expression tag	UNP O66529
RC	10	GLU	-	expression tag	UNP O66529
RC	11	ARG	-	expression tag	UNP O66529
RC	12	ARG	-	expression tag	UNP O66529
RC	13	ALA	-	expression tag	UNP O66529
RC	14	GLU	-	expression tag	UNP O66529
RC	15	LYS	-	expression tag	UNP O66529
RC	16	GLN	-	expression tag	UNP O66529
RC	17	ALA	-	expression tag	UNP O66529
RC	18	GLN	-	expression tag	UNP O66529
RC	19	TRP	-	expression tag	UNP O66529
RC	20	LYS	-	expression tag	UNP O66529
RC	21	ALA	-	expression tag	UNP O66529
RC	22	ALA	-	expression tag	UNP O66529
RC	23	ASN	-	expression tag	UNP O66529
RC	24	ALA	-	expression tag	UNP O66529
RC	25	GLY	-	expression tag	UNP O66529
RC	26	ALA	-	expression tag	UNP O66529
RC	27	GLY	-	expression tag	UNP O66529
RC	28	ALA	-	expression tag	UNP O66529
RC	29	GLY	-	expression tag	UNP O66529
RC	30	ALA	-	expression tag	UNP O66529
RC	31	MET	-	expression tag	UNP O66529
RC	39	ASN	ILE	conflict	UNP O66529
RC	42	VAL	GLU	conflict	UNP O66529
RC	58	VAL	ILE	conflict	UNP O66529
RC	59	SER	THR	conflict	UNP O66529
RC	61	ASP	GLY	conflict	UNP O66529
RC	62	ILE	VAL	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
RC	97	TYR	PHE	conflict	UNP O66529
RC	102	GLY	-	expression tag	UNP O66529
RC	103	THR	-	expression tag	UNP O66529
RC	104	GLU	-	expression tag	UNP O66529
RC	105	HIS	-	expression tag	UNP O66529
RC	106	HIS	-	expression tag	UNP O66529
RC	107	HIS	-	expression tag	UNP O66529
RC	108	HIS	-	expression tag	UNP O66529
RC	109	LEU	-	expression tag	UNP O66529
RC	110	HIS	-	expression tag	UNP O66529
RC	111	GLY	-	expression tag	UNP O66529
RC	112	SER	-	expression tag	UNP O66529
RC	113	SER	-	expression tag	UNP O66529
RD	1	MET	-	initiating methionine	UNP O66529
RD	2	GLY	-	expression tag	UNP O66529
RD	3	ASN	-	expression tag	UNP O66529
RD	4	ALA	-	expression tag	UNP O66529
RD	5	ARG	-	expression tag	UNP O66529
RD	6	THR	-	expression tag	UNP O66529
RD	7	ARG	-	expression tag	UNP O66529
RD	8	ARG	-	expression tag	UNP O66529
RD	9	ARG	-	expression tag	UNP O66529
RD	10	GLU	-	expression tag	UNP O66529
RD	11	ARG	-	expression tag	UNP O66529
RD	12	ARG	-	expression tag	UNP O66529
RD	13	ALA	-	expression tag	UNP O66529
RD	14	GLU	-	expression tag	UNP O66529
RD	15	LYS	-	expression tag	UNP O66529
RD	16	GLN	-	expression tag	UNP O66529
RD	17	ALA	-	expression tag	UNP O66529
RD	18	GLN	-	expression tag	UNP O66529
RD	19	TRP	-	expression tag	UNP O66529
RD	20	LYS	-	expression tag	UNP O66529
RD	21	ALA	-	expression tag	UNP O66529
RD	22	ALA	-	expression tag	UNP O66529
RD	23	ASN	-	expression tag	UNP O66529
RD	24	ALA	-	expression tag	UNP O66529
RD	25	GLY	-	expression tag	UNP O66529
RD	26	ALA	-	expression tag	UNP O66529
RD	27	GLY	-	expression tag	UNP O66529
RD	28	ALA	-	expression tag	UNP O66529
RD	29	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
RD	30	ALA	-	expression tag	UNP O66529
RD	31	MET	-	expression tag	UNP O66529
RD	39	ASN	ILE	conflict	UNP O66529
RD	42	VAL	GLU	conflict	UNP O66529
RD	58	VAL	ILE	conflict	UNP O66529
RD	59	SER	THR	conflict	UNP O66529
RD	61	ASP	GLY	conflict	UNP O66529
RD	62	ILE	VAL	conflict	UNP O66529
RD	97	TYR	PHE	conflict	UNP O66529
RD	102	GLY	-	expression tag	UNP O66529
RD	103	THR	-	expression tag	UNP O66529
RD	104	GLU	-	expression tag	UNP O66529
RD	105	HIS	-	expression tag	UNP O66529
RD	106	HIS	-	expression tag	UNP O66529
RD	107	HIS	-	expression tag	UNP O66529
RD	108	HIS	-	expression tag	UNP O66529
RD	109	LEU	-	expression tag	UNP O66529
RD	110	HIS	-	expression tag	UNP O66529
RD	111	GLY	-	expression tag	UNP O66529
RD	112	SER	-	expression tag	UNP O66529
RD	113	SER	-	expression tag	UNP O66529
SA	1	MET	-	initiating methionine	UNP O66529
SA	2	GLY	-	expression tag	UNP O66529
SA	3	ASN	-	expression tag	UNP O66529
SA	4	ALA	-	expression tag	UNP O66529
SA	5	ARG	-	expression tag	UNP O66529
SA	6	THR	-	expression tag	UNP O66529
SA	7	ARG	-	expression tag	UNP O66529
SA	8	ARG	-	expression tag	UNP O66529
SA	9	ARG	-	expression tag	UNP O66529
SA	10	GLU	-	expression tag	UNP O66529
SA	11	ARG	-	expression tag	UNP O66529
SA	12	ARG	-	expression tag	UNP O66529
SA	13	ALA	-	expression tag	UNP O66529
SA	14	GLU	-	expression tag	UNP O66529
SA	15	LYS	-	expression tag	UNP O66529
SA	16	GLN	-	expression tag	UNP O66529
SA	17	ALA	-	expression tag	UNP O66529
SA	18	GLN	-	expression tag	UNP O66529
SA	19	TRP	-	expression tag	UNP O66529
SA	20	LYS	-	expression tag	UNP O66529
SA	21	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
SA	22	ALA	-	expression tag	UNP O66529
SA	23	ASN	-	expression tag	UNP O66529
SA	24	ALA	-	expression tag	UNP O66529
SA	25	GLY	-	expression tag	UNP O66529
SA	26	ALA	-	expression tag	UNP O66529
SA	27	GLY	-	expression tag	UNP O66529
SA	28	ALA	-	expression tag	UNP O66529
SA	29	GLY	-	expression tag	UNP O66529
SA	30	ALA	-	expression tag	UNP O66529
SA	31	MET	-	expression tag	UNP O66529
SA	39	ASN	ILE	conflict	UNP O66529
SA	42	VAL	GLU	conflict	UNP O66529
SA	58	VAL	ILE	conflict	UNP O66529
SA	59	SER	THR	conflict	UNP O66529
SA	61	ASP	GLY	conflict	UNP O66529
SA	62	ILE	VAL	conflict	UNP O66529
SA	97	TYR	PHE	conflict	UNP O66529
SA	102	GLY	-	expression tag	UNP O66529
SA	103	THR	-	expression tag	UNP O66529
SA	104	GLU	-	expression tag	UNP O66529
SA	105	HIS	-	expression tag	UNP O66529
SA	106	HIS	-	expression tag	UNP O66529
SA	107	HIS	-	expression tag	UNP O66529
SA	108	HIS	-	expression tag	UNP O66529
SA	109	LEU	-	expression tag	UNP O66529
SA	110	HIS	-	expression tag	UNP O66529
SA	111	GLY	-	expression tag	UNP O66529
SA	112	SER	-	expression tag	UNP O66529
SA	113	SER	-	expression tag	UNP O66529
SB	1	MET	-	initiating methionine	UNP O66529
SB	2	GLY	-	expression tag	UNP O66529
SB	3	ASN	-	expression tag	UNP O66529
SB	4	ALA	-	expression tag	UNP O66529
SB	5	ARG	-	expression tag	UNP O66529
SB	6	THR	-	expression tag	UNP O66529
SB	7	ARG	-	expression tag	UNP O66529
SB	8	ARG	-	expression tag	UNP O66529
SB	9	ARG	-	expression tag	UNP O66529
SB	10	GLU	-	expression tag	UNP O66529
SB	11	ARG	-	expression tag	UNP O66529
SB	12	ARG	-	expression tag	UNP O66529
SB	13	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
SB	14	GLU	-	expression tag	UNP O66529
SB	15	LYS	-	expression tag	UNP O66529
SB	16	GLN	-	expression tag	UNP O66529
SB	17	ALA	-	expression tag	UNP O66529
SB	18	GLN	-	expression tag	UNP O66529
SB	19	TRP	-	expression tag	UNP O66529
SB	20	LYS	-	expression tag	UNP O66529
SB	21	ALA	-	expression tag	UNP O66529
SB	22	ALA	-	expression tag	UNP O66529
SB	23	ASN	-	expression tag	UNP O66529
SB	24	ALA	-	expression tag	UNP O66529
SB	25	GLY	-	expression tag	UNP O66529
SB	26	ALA	-	expression tag	UNP O66529
SB	27	GLY	-	expression tag	UNP O66529
SB	28	ALA	-	expression tag	UNP O66529
SB	29	GLY	-	expression tag	UNP O66529
SB	30	ALA	-	expression tag	UNP O66529
SB	31	MET	-	expression tag	UNP O66529
SB	39	ASN	ILE	conflict	UNP O66529
SB	42	VAL	GLU	conflict	UNP O66529
SB	58	VAL	ILE	conflict	UNP O66529
SB	59	SER	THR	conflict	UNP O66529
SB	61	ASP	GLY	conflict	UNP O66529
SB	62	ILE	VAL	conflict	UNP O66529
SB	97	TYR	PHE	conflict	UNP O66529
SB	102	GLY	-	expression tag	UNP O66529
SB	103	THR	-	expression tag	UNP O66529
SB	104	GLU	-	expression tag	UNP O66529
SB	105	HIS	-	expression tag	UNP O66529
SB	106	HIS	-	expression tag	UNP O66529
SB	107	HIS	-	expression tag	UNP O66529
SB	108	HIS	-	expression tag	UNP O66529
SB	109	LEU	-	expression tag	UNP O66529
SB	110	HIS	-	expression tag	UNP O66529
SB	111	GLY	-	expression tag	UNP O66529
SB	112	SER	-	expression tag	UNP O66529
SB	113	SER	-	expression tag	UNP O66529
SC	1	MET	-	initiating methionine	UNP O66529
SC	2	GLY	-	expression tag	UNP O66529
SC	3	ASN	-	expression tag	UNP O66529
SC	4	ALA	-	expression tag	UNP O66529
SC	5	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
SC	6	THR	-	expression tag	UNP O66529
SC	7	ARG	-	expression tag	UNP O66529
SC	8	ARG	-	expression tag	UNP O66529
SC	9	ARG	-	expression tag	UNP O66529
SC	10	GLU	-	expression tag	UNP O66529
SC	11	ARG	-	expression tag	UNP O66529
SC	12	ARG	-	expression tag	UNP O66529
SC	13	ALA	-	expression tag	UNP O66529
SC	14	GLU	-	expression tag	UNP O66529
SC	15	LYS	-	expression tag	UNP O66529
SC	16	GLN	-	expression tag	UNP O66529
SC	17	ALA	-	expression tag	UNP O66529
SC	18	GLN	-	expression tag	UNP O66529
SC	19	TRP	-	expression tag	UNP O66529
SC	20	LYS	-	expression tag	UNP O66529
SC	21	ALA	-	expression tag	UNP O66529
SC	22	ALA	-	expression tag	UNP O66529
SC	23	ASN	-	expression tag	UNP O66529
SC	24	ALA	-	expression tag	UNP O66529
SC	25	GLY	-	expression tag	UNP O66529
SC	26	ALA	-	expression tag	UNP O66529
SC	27	GLY	-	expression tag	UNP O66529
SC	28	ALA	-	expression tag	UNP O66529
SC	29	GLY	-	expression tag	UNP O66529
SC	30	ALA	-	expression tag	UNP O66529
SC	31	MET	-	expression tag	UNP O66529
SC	39	ASN	ILE	conflict	UNP O66529
SC	42	VAL	GLU	conflict	UNP O66529
SC	58	VAL	ILE	conflict	UNP O66529
SC	59	SER	THR	conflict	UNP O66529
SC	61	ASP	GLY	conflict	UNP O66529
SC	62	ILE	VAL	conflict	UNP O66529
SC	97	TYR	PHE	conflict	UNP O66529
SC	102	GLY	-	expression tag	UNP O66529
SC	103	THR	-	expression tag	UNP O66529
SC	104	GLU	-	expression tag	UNP O66529
SC	105	HIS	-	expression tag	UNP O66529
SC	106	HIS	-	expression tag	UNP O66529
SC	107	HIS	-	expression tag	UNP O66529
SC	108	HIS	-	expression tag	UNP O66529
SC	109	LEU	-	expression tag	UNP O66529
SC	110	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
SC	111	GLY	-	expression tag	UNP O66529
SC	112	SER	-	expression tag	UNP O66529
SC	113	SER	-	expression tag	UNP O66529
SD	1	MET	-	initiating methionine	UNP O66529
SD	2	GLY	-	expression tag	UNP O66529
SD	3	ASN	-	expression tag	UNP O66529
SD	4	ALA	-	expression tag	UNP O66529
SD	5	ARG	-	expression tag	UNP O66529
SD	6	THR	-	expression tag	UNP O66529
SD	7	ARG	-	expression tag	UNP O66529
SD	8	ARG	-	expression tag	UNP O66529
SD	9	ARG	-	expression tag	UNP O66529
SD	10	GLU	-	expression tag	UNP O66529
SD	11	ARG	-	expression tag	UNP O66529
SD	12	ARG	-	expression tag	UNP O66529
SD	13	ALA	-	expression tag	UNP O66529
SD	14	GLU	-	expression tag	UNP O66529
SD	15	LYS	-	expression tag	UNP O66529
SD	16	GLN	-	expression tag	UNP O66529
SD	17	ALA	-	expression tag	UNP O66529
SD	18	GLN	-	expression tag	UNP O66529
SD	19	TRP	-	expression tag	UNP O66529
SD	20	LYS	-	expression tag	UNP O66529
SD	21	ALA	-	expression tag	UNP O66529
SD	22	ALA	-	expression tag	UNP O66529
SD	23	ASN	-	expression tag	UNP O66529
SD	24	ALA	-	expression tag	UNP O66529
SD	25	GLY	-	expression tag	UNP O66529
SD	26	ALA	-	expression tag	UNP O66529
SD	27	GLY	-	expression tag	UNP O66529
SD	28	ALA	-	expression tag	UNP O66529
SD	29	GLY	-	expression tag	UNP O66529
SD	30	ALA	-	expression tag	UNP O66529
SD	31	MET	-	expression tag	UNP O66529
SD	39	ASN	ILE	conflict	UNP O66529
SD	42	VAL	GLU	conflict	UNP O66529
SD	58	VAL	ILE	conflict	UNP O66529
SD	59	SER	THR	conflict	UNP O66529
SD	61	ASP	GLY	conflict	UNP O66529
SD	62	ILE	VAL	conflict	UNP O66529
SD	97	TYR	PHE	conflict	UNP O66529
SD	102	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
SD	103	THR	-	expression tag	UNP O66529
SD	104	GLU	-	expression tag	UNP O66529
SD	105	HIS	-	expression tag	UNP O66529
SD	106	HIS	-	expression tag	UNP O66529
SD	107	HIS	-	expression tag	UNP O66529
SD	108	HIS	-	expression tag	UNP O66529
SD	109	LEU	-	expression tag	UNP O66529
SD	110	HIS	-	expression tag	UNP O66529
SD	111	GLY	-	expression tag	UNP O66529
SD	112	SER	-	expression tag	UNP O66529
SD	113	SER	-	expression tag	UNP O66529
TA	1	MET	-	initiating methionine	UNP O66529
TA	2	GLY	-	expression tag	UNP O66529
TA	3	ASN	-	expression tag	UNP O66529
TA	4	ALA	-	expression tag	UNP O66529
TA	5	ARG	-	expression tag	UNP O66529
TA	6	THR	-	expression tag	UNP O66529
TA	7	ARG	-	expression tag	UNP O66529
TA	8	ARG	-	expression tag	UNP O66529
TA	9	ARG	-	expression tag	UNP O66529
TA	10	GLU	-	expression tag	UNP O66529
TA	11	ARG	-	expression tag	UNP O66529
TA	12	ARG	-	expression tag	UNP O66529
TA	13	ALA	-	expression tag	UNP O66529
TA	14	GLU	-	expression tag	UNP O66529
TA	15	LYS	-	expression tag	UNP O66529
TA	16	GLN	-	expression tag	UNP O66529
TA	17	ALA	-	expression tag	UNP O66529
TA	18	GLN	-	expression tag	UNP O66529
TA	19	TRP	-	expression tag	UNP O66529
TA	20	LYS	-	expression tag	UNP O66529
TA	21	ALA	-	expression tag	UNP O66529
TA	22	ALA	-	expression tag	UNP O66529
TA	23	ASN	-	expression tag	UNP O66529
TA	24	ALA	-	expression tag	UNP O66529
TA	25	GLY	-	expression tag	UNP O66529
TA	26	ALA	-	expression tag	UNP O66529
TA	27	GLY	-	expression tag	UNP O66529
TA	28	ALA	-	expression tag	UNP O66529
TA	29	GLY	-	expression tag	UNP O66529
TA	30	ALA	-	expression tag	UNP O66529
TA	31	MET	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
TA	39	ASN	ILE	conflict	UNP O66529
TA	42	VAL	GLU	conflict	UNP O66529
TA	58	VAL	ILE	conflict	UNP O66529
TA	59	SER	THR	conflict	UNP O66529
TA	61	ASP	GLY	conflict	UNP O66529
TA	62	ILE	VAL	conflict	UNP O66529
TA	97	TYR	PHE	conflict	UNP O66529
TA	102	GLY	-	expression tag	UNP O66529
TA	103	THR	-	expression tag	UNP O66529
TA	104	GLU	-	expression tag	UNP O66529
TA	105	HIS	-	expression tag	UNP O66529
TA	106	HIS	-	expression tag	UNP O66529
TA	107	HIS	-	expression tag	UNP O66529
TA	108	HIS	-	expression tag	UNP O66529
TA	109	LEU	-	expression tag	UNP O66529
TA	110	HIS	-	expression tag	UNP O66529
TA	111	GLY	-	expression tag	UNP O66529
TA	112	SER	-	expression tag	UNP O66529
TA	113	SER	-	expression tag	UNP O66529
TB	1	MET	-	initiating methionine	UNP O66529
TB	2	GLY	-	expression tag	UNP O66529
TB	3	ASN	-	expression tag	UNP O66529
TB	4	ALA	-	expression tag	UNP O66529
TB	5	ARG	-	expression tag	UNP O66529
TB	6	THR	-	expression tag	UNP O66529
TB	7	ARG	-	expression tag	UNP O66529
TB	8	ARG	-	expression tag	UNP O66529
TB	9	ARG	-	expression tag	UNP O66529
TB	10	GLU	-	expression tag	UNP O66529
TB	11	ARG	-	expression tag	UNP O66529
TB	12	ARG	-	expression tag	UNP O66529
TB	13	ALA	-	expression tag	UNP O66529
TB	14	GLU	-	expression tag	UNP O66529
TB	15	LYS	-	expression tag	UNP O66529
TB	16	GLN	-	expression tag	UNP O66529
TB	17	ALA	-	expression tag	UNP O66529
TB	18	GLN	-	expression tag	UNP O66529
TB	19	TRP	-	expression tag	UNP O66529
TB	20	LYS	-	expression tag	UNP O66529
TB	21	ALA	-	expression tag	UNP O66529
TB	22	ALA	-	expression tag	UNP O66529
TB	23	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
TB	24	ALA	-	expression tag	UNP O66529
TB	25	GLY	-	expression tag	UNP O66529
TB	26	ALA	-	expression tag	UNP O66529
TB	27	GLY	-	expression tag	UNP O66529
TB	28	ALA	-	expression tag	UNP O66529
TB	29	GLY	-	expression tag	UNP O66529
TB	30	ALA	-	expression tag	UNP O66529
TB	31	MET	-	expression tag	UNP O66529
TB	39	ASN	ILE	conflict	UNP O66529
TB	42	VAL	GLU	conflict	UNP O66529
TB	58	VAL	ILE	conflict	UNP O66529
TB	59	SER	THR	conflict	UNP O66529
TB	61	ASP	GLY	conflict	UNP O66529
TB	62	ILE	VAL	conflict	UNP O66529
TB	97	TYR	PHE	conflict	UNP O66529
TB	102	GLY	-	expression tag	UNP O66529
TB	103	THR	-	expression tag	UNP O66529
TB	104	GLU	-	expression tag	UNP O66529
TB	105	HIS	-	expression tag	UNP O66529
TB	106	HIS	-	expression tag	UNP O66529
TB	107	HIS	-	expression tag	UNP O66529
TB	108	HIS	-	expression tag	UNP O66529
TB	109	LEU	-	expression tag	UNP O66529
TB	110	HIS	-	expression tag	UNP O66529
TB	111	GLY	-	expression tag	UNP O66529
TB	112	SER	-	expression tag	UNP O66529
TB	113	SER	-	expression tag	UNP O66529
TC	1	MET	-	initiating methionine	UNP O66529
TC	2	GLY	-	expression tag	UNP O66529
TC	3	ASN	-	expression tag	UNP O66529
TC	4	ALA	-	expression tag	UNP O66529
TC	5	ARG	-	expression tag	UNP O66529
TC	6	THR	-	expression tag	UNP O66529
TC	7	ARG	-	expression tag	UNP O66529
TC	8	ARG	-	expression tag	UNP O66529
TC	9	ARG	-	expression tag	UNP O66529
TC	10	GLU	-	expression tag	UNP O66529
TC	11	ARG	-	expression tag	UNP O66529
TC	12	ARG	-	expression tag	UNP O66529
TC	13	ALA	-	expression tag	UNP O66529
TC	14	GLU	-	expression tag	UNP O66529
TC	15	LYS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
TC	16	GLN	-	expression tag	UNP O66529
TC	17	ALA	-	expression tag	UNP O66529
TC	18	GLN	-	expression tag	UNP O66529
TC	19	TRP	-	expression tag	UNP O66529
TC	20	LYS	-	expression tag	UNP O66529
TC	21	ALA	-	expression tag	UNP O66529
TC	22	ALA	-	expression tag	UNP O66529
TC	23	ASN	-	expression tag	UNP O66529
TC	24	ALA	-	expression tag	UNP O66529
TC	25	GLY	-	expression tag	UNP O66529
TC	26	ALA	-	expression tag	UNP O66529
TC	27	GLY	-	expression tag	UNP O66529
TC	28	ALA	-	expression tag	UNP O66529
TC	29	GLY	-	expression tag	UNP O66529
TC	30	ALA	-	expression tag	UNP O66529
TC	31	MET	-	expression tag	UNP O66529
TC	39	ASN	ILE	conflict	UNP O66529
TC	42	VAL	GLU	conflict	UNP O66529
TC	58	VAL	ILE	conflict	UNP O66529
TC	59	SER	THR	conflict	UNP O66529
TC	61	ASP	GLY	conflict	UNP O66529
TC	62	ILE	VAL	conflict	UNP O66529
TC	97	TYR	PHE	conflict	UNP O66529
TC	102	GLY	-	expression tag	UNP O66529
TC	103	THR	-	expression tag	UNP O66529
TC	104	GLU	-	expression tag	UNP O66529
TC	105	HIS	-	expression tag	UNP O66529
TC	106	HIS	-	expression tag	UNP O66529
TC	107	HIS	-	expression tag	UNP O66529
TC	108	HIS	-	expression tag	UNP O66529
TC	109	LEU	-	expression tag	UNP O66529
TC	110	HIS	-	expression tag	UNP O66529
TC	111	GLY	-	expression tag	UNP O66529
TC	112	SER	-	expression tag	UNP O66529
TC	113	SER	-	expression tag	UNP O66529
TD	1	MET	-	initiating methionine	UNP O66529
TD	2	GLY	-	expression tag	UNP O66529
TD	3	ASN	-	expression tag	UNP O66529
TD	4	ALA	-	expression tag	UNP O66529
TD	5	ARG	-	expression tag	UNP O66529
TD	6	THR	-	expression tag	UNP O66529
TD	7	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
TD	8	ARG	-	expression tag	UNP O66529
TD	9	ARG	-	expression tag	UNP O66529
TD	10	GLU	-	expression tag	UNP O66529
TD	11	ARG	-	expression tag	UNP O66529
TD	12	ARG	-	expression tag	UNP O66529
TD	13	ALA	-	expression tag	UNP O66529
TD	14	GLU	-	expression tag	UNP O66529
TD	15	LYS	-	expression tag	UNP O66529
TD	16	GLN	-	expression tag	UNP O66529
TD	17	ALA	-	expression tag	UNP O66529
TD	18	GLN	-	expression tag	UNP O66529
TD	19	TRP	-	expression tag	UNP O66529
TD	20	LYS	-	expression tag	UNP O66529
TD	21	ALA	-	expression tag	UNP O66529
TD	22	ALA	-	expression tag	UNP O66529
TD	23	ASN	-	expression tag	UNP O66529
TD	24	ALA	-	expression tag	UNP O66529
TD	25	GLY	-	expression tag	UNP O66529
TD	26	ALA	-	expression tag	UNP O66529
TD	27	GLY	-	expression tag	UNP O66529
TD	28	ALA	-	expression tag	UNP O66529
TD	29	GLY	-	expression tag	UNP O66529
TD	30	ALA	-	expression tag	UNP O66529
TD	31	MET	-	expression tag	UNP O66529
TD	39	ASN	ILE	conflict	UNP O66529
TD	42	VAL	GLU	conflict	UNP O66529
TD	58	VAL	ILE	conflict	UNP O66529
TD	59	SER	THR	conflict	UNP O66529
TD	61	ASP	GLY	conflict	UNP O66529
TD	62	ILE	VAL	conflict	UNP O66529
TD	97	TYR	PHE	conflict	UNP O66529
TD	102	GLY	-	expression tag	UNP O66529
TD	103	THR	-	expression tag	UNP O66529
TD	104	GLU	-	expression tag	UNP O66529
TD	105	HIS	-	expression tag	UNP O66529
TD	106	HIS	-	expression tag	UNP O66529
TD	107	HIS	-	expression tag	UNP O66529
TD	108	HIS	-	expression tag	UNP O66529
TD	109	LEU	-	expression tag	UNP O66529
TD	110	HIS	-	expression tag	UNP O66529
TD	111	GLY	-	expression tag	UNP O66529
TD	112	SER	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
TD	113	SER	-	expression tag	UNP O66529
UA	1	MET	-	initiating methionine	UNP O66529
UA	2	GLY	-	expression tag	UNP O66529
UA	3	ASN	-	expression tag	UNP O66529
UA	4	ALA	-	expression tag	UNP O66529
UA	5	ARG	-	expression tag	UNP O66529
UA	6	THR	-	expression tag	UNP O66529
UA	7	ARG	-	expression tag	UNP O66529
UA	8	ARG	-	expression tag	UNP O66529
UA	9	ARG	-	expression tag	UNP O66529
UA	10	GLU	-	expression tag	UNP O66529
UA	11	ARG	-	expression tag	UNP O66529
UA	12	ARG	-	expression tag	UNP O66529
UA	13	ALA	-	expression tag	UNP O66529
UA	14	GLU	-	expression tag	UNP O66529
UA	15	LYS	-	expression tag	UNP O66529
UA	16	GLN	-	expression tag	UNP O66529
UA	17	ALA	-	expression tag	UNP O66529
UA	18	GLN	-	expression tag	UNP O66529
UA	19	TRP	-	expression tag	UNP O66529
UA	20	LYS	-	expression tag	UNP O66529
UA	21	ALA	-	expression tag	UNP O66529
UA	22	ALA	-	expression tag	UNP O66529
UA	23	ASN	-	expression tag	UNP O66529
UA	24	ALA	-	expression tag	UNP O66529
UA	25	GLY	-	expression tag	UNP O66529
UA	26	ALA	-	expression tag	UNP O66529
UA	27	GLY	-	expression tag	UNP O66529
UA	28	ALA	-	expression tag	UNP O66529
UA	29	GLY	-	expression tag	UNP O66529
UA	30	ALA	-	expression tag	UNP O66529
UA	31	MET	-	expression tag	UNP O66529
UA	39	ASN	ILE	conflict	UNP O66529
UA	42	VAL	GLU	conflict	UNP O66529
UA	58	VAL	ILE	conflict	UNP O66529
UA	59	SER	THR	conflict	UNP O66529
UA	61	ASP	GLY	conflict	UNP O66529
UA	62	ILE	VAL	conflict	UNP O66529
UA	97	TYR	PHE	conflict	UNP O66529
UA	102	GLY	-	expression tag	UNP O66529
UA	103	THR	-	expression tag	UNP O66529
UA	104	GLU	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
UA	105	HIS	-	expression tag	UNP O66529
UA	106	HIS	-	expression tag	UNP O66529
UA	107	HIS	-	expression tag	UNP O66529
UA	108	HIS	-	expression tag	UNP O66529
UA	109	LEU	-	expression tag	UNP O66529
UA	110	HIS	-	expression tag	UNP O66529
UA	111	GLY	-	expression tag	UNP O66529
UA	112	SER	-	expression tag	UNP O66529
UA	113	SER	-	expression tag	UNP O66529
UB	1	MET	-	initiating methionine	UNP O66529
UB	2	GLY	-	expression tag	UNP O66529
UB	3	ASN	-	expression tag	UNP O66529
UB	4	ALA	-	expression tag	UNP O66529
UB	5	ARG	-	expression tag	UNP O66529
UB	6	THR	-	expression tag	UNP O66529
UB	7	ARG	-	expression tag	UNP O66529
UB	8	ARG	-	expression tag	UNP O66529
UB	9	ARG	-	expression tag	UNP O66529
UB	10	GLU	-	expression tag	UNP O66529
UB	11	ARG	-	expression tag	UNP O66529
UB	12	ARG	-	expression tag	UNP O66529
UB	13	ALA	-	expression tag	UNP O66529
UB	14	GLU	-	expression tag	UNP O66529
UB	15	LYS	-	expression tag	UNP O66529
UB	16	GLN	-	expression tag	UNP O66529
UB	17	ALA	-	expression tag	UNP O66529
UB	18	GLN	-	expression tag	UNP O66529
UB	19	TRP	-	expression tag	UNP O66529
UB	20	LYS	-	expression tag	UNP O66529
UB	21	ALA	-	expression tag	UNP O66529
UB	22	ALA	-	expression tag	UNP O66529
UB	23	ASN	-	expression tag	UNP O66529
UB	24	ALA	-	expression tag	UNP O66529
UB	25	GLY	-	expression tag	UNP O66529
UB	26	ALA	-	expression tag	UNP O66529
UB	27	GLY	-	expression tag	UNP O66529
UB	28	ALA	-	expression tag	UNP O66529
UB	29	GLY	-	expression tag	UNP O66529
UB	30	ALA	-	expression tag	UNP O66529
UB	31	MET	-	expression tag	UNP O66529
UB	39	ASN	ILE	conflict	UNP O66529
UB	42	VAL	GLU	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
UB	58	VAL	ILE	conflict	UNP O66529
UB	59	SER	THR	conflict	UNP O66529
UB	61	ASP	GLY	conflict	UNP O66529
UB	62	ILE	VAL	conflict	UNP O66529
UB	97	TYR	PHE	conflict	UNP O66529
UB	102	GLY	-	expression tag	UNP O66529
UB	103	THR	-	expression tag	UNP O66529
UB	104	GLU	-	expression tag	UNP O66529
UB	105	HIS	-	expression tag	UNP O66529
UB	106	HIS	-	expression tag	UNP O66529
UB	107	HIS	-	expression tag	UNP O66529
UB	108	HIS	-	expression tag	UNP O66529
UB	109	LEU	-	expression tag	UNP O66529
UB	110	HIS	-	expression tag	UNP O66529
UB	111	GLY	-	expression tag	UNP O66529
UB	112	SER	-	expression tag	UNP O66529
UB	113	SER	-	expression tag	UNP O66529
UC	1	MET	-	initiating methionine	UNP O66529
UC	2	GLY	-	expression tag	UNP O66529
UC	3	ASN	-	expression tag	UNP O66529
UC	4	ALA	-	expression tag	UNP O66529
UC	5	ARG	-	expression tag	UNP O66529
UC	6	THR	-	expression tag	UNP O66529
UC	7	ARG	-	expression tag	UNP O66529
UC	8	ARG	-	expression tag	UNP O66529
UC	9	ARG	-	expression tag	UNP O66529
UC	10	GLU	-	expression tag	UNP O66529
UC	11	ARG	-	expression tag	UNP O66529
UC	12	ARG	-	expression tag	UNP O66529
UC	13	ALA	-	expression tag	UNP O66529
UC	14	GLU	-	expression tag	UNP O66529
UC	15	LYS	-	expression tag	UNP O66529
UC	16	GLN	-	expression tag	UNP O66529
UC	17	ALA	-	expression tag	UNP O66529
UC	18	GLN	-	expression tag	UNP O66529
UC	19	TRP	-	expression tag	UNP O66529
UC	20	LYS	-	expression tag	UNP O66529
UC	21	ALA	-	expression tag	UNP O66529
UC	22	ALA	-	expression tag	UNP O66529
UC	23	ASN	-	expression tag	UNP O66529
UC	24	ALA	-	expression tag	UNP O66529
UC	25	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
UC	26	ALA	-	expression tag	UNP O66529
UC	27	GLY	-	expression tag	UNP O66529
UC	28	ALA	-	expression tag	UNP O66529
UC	29	GLY	-	expression tag	UNP O66529
UC	30	ALA	-	expression tag	UNP O66529
UC	31	MET	-	expression tag	UNP O66529
UC	39	ASN	ILE	conflict	UNP O66529
UC	42	VAL	GLU	conflict	UNP O66529
UC	58	VAL	ILE	conflict	UNP O66529
UC	59	SER	THR	conflict	UNP O66529
UC	61	ASP	GLY	conflict	UNP O66529
UC	62	ILE	VAL	conflict	UNP O66529
UC	97	TYR	PHE	conflict	UNP O66529
UC	102	GLY	-	expression tag	UNP O66529
UC	103	THR	-	expression tag	UNP O66529
UC	104	GLU	-	expression tag	UNP O66529
UC	105	HIS	-	expression tag	UNP O66529
UC	106	HIS	-	expression tag	UNP O66529
UC	107	HIS	-	expression tag	UNP O66529
UC	108	HIS	-	expression tag	UNP O66529
UC	109	LEU	-	expression tag	UNP O66529
UC	110	HIS	-	expression tag	UNP O66529
UC	111	GLY	-	expression tag	UNP O66529
UC	112	SER	-	expression tag	UNP O66529
UC	113	SER	-	expression tag	UNP O66529
UD	1	MET	-	initiating methionine	UNP O66529
UD	2	GLY	-	expression tag	UNP O66529
UD	3	ASN	-	expression tag	UNP O66529
UD	4	ALA	-	expression tag	UNP O66529
UD	5	ARG	-	expression tag	UNP O66529
UD	6	THR	-	expression tag	UNP O66529
UD	7	ARG	-	expression tag	UNP O66529
UD	8	ARG	-	expression tag	UNP O66529
UD	9	ARG	-	expression tag	UNP O66529
UD	10	GLU	-	expression tag	UNP O66529
UD	11	ARG	-	expression tag	UNP O66529
UD	12	ARG	-	expression tag	UNP O66529
UD	13	ALA	-	expression tag	UNP O66529
UD	14	GLU	-	expression tag	UNP O66529
UD	15	LYS	-	expression tag	UNP O66529
UD	16	GLN	-	expression tag	UNP O66529
UD	17	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
UD	18	GLN	-	expression tag	UNP O66529
UD	19	TRP	-	expression tag	UNP O66529
UD	20	LYS	-	expression tag	UNP O66529
UD	21	ALA	-	expression tag	UNP O66529
UD	22	ALA	-	expression tag	UNP O66529
UD	23	ASN	-	expression tag	UNP O66529
UD	24	ALA	-	expression tag	UNP O66529
UD	25	GLY	-	expression tag	UNP O66529
UD	26	ALA	-	expression tag	UNP O66529
UD	27	GLY	-	expression tag	UNP O66529
UD	28	ALA	-	expression tag	UNP O66529
UD	29	GLY	-	expression tag	UNP O66529
UD	30	ALA	-	expression tag	UNP O66529
UD	31	MET	-	expression tag	UNP O66529
UD	39	ASN	ILE	conflict	UNP O66529
UD	42	VAL	GLU	conflict	UNP O66529
UD	58	VAL	ILE	conflict	UNP O66529
UD	59	SER	THR	conflict	UNP O66529
UD	61	ASP	GLY	conflict	UNP O66529
UD	62	ILE	VAL	conflict	UNP O66529
UD	97	TYR	PHE	conflict	UNP O66529
UD	102	GLY	-	expression tag	UNP O66529
UD	103	THR	-	expression tag	UNP O66529
UD	104	GLU	-	expression tag	UNP O66529
UD	105	HIS	-	expression tag	UNP O66529
UD	106	HIS	-	expression tag	UNP O66529
UD	107	HIS	-	expression tag	UNP O66529
UD	108	HIS	-	expression tag	UNP O66529
UD	109	LEU	-	expression tag	UNP O66529
UD	110	HIS	-	expression tag	UNP O66529
UD	111	GLY	-	expression tag	UNP O66529
UD	112	SER	-	expression tag	UNP O66529
UD	113	SER	-	expression tag	UNP O66529
VA	1	MET	-	initiating methionine	UNP O66529
VA	2	GLY	-	expression tag	UNP O66529
VA	3	ASN	-	expression tag	UNP O66529
VA	4	ALA	-	expression tag	UNP O66529
VA	5	ARG	-	expression tag	UNP O66529
VA	6	THR	-	expression tag	UNP O66529
VA	7	ARG	-	expression tag	UNP O66529
VA	8	ARG	-	expression tag	UNP O66529
VA	9	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
VA	10	GLU	-	expression tag	UNP O66529
VA	11	ARG	-	expression tag	UNP O66529
VA	12	ARG	-	expression tag	UNP O66529
VA	13	ALA	-	expression tag	UNP O66529
VA	14	GLU	-	expression tag	UNP O66529
VA	15	LYS	-	expression tag	UNP O66529
VA	16	GLN	-	expression tag	UNP O66529
VA	17	ALA	-	expression tag	UNP O66529
VA	18	GLN	-	expression tag	UNP O66529
VA	19	TRP	-	expression tag	UNP O66529
VA	20	LYS	-	expression tag	UNP O66529
VA	21	ALA	-	expression tag	UNP O66529
VA	22	ALA	-	expression tag	UNP O66529
VA	23	ASN	-	expression tag	UNP O66529
VA	24	ALA	-	expression tag	UNP O66529
VA	25	GLY	-	expression tag	UNP O66529
VA	26	ALA	-	expression tag	UNP O66529
VA	27	GLY	-	expression tag	UNP O66529
VA	28	ALA	-	expression tag	UNP O66529
VA	29	GLY	-	expression tag	UNP O66529
VA	30	ALA	-	expression tag	UNP O66529
VA	31	MET	-	expression tag	UNP O66529
VA	39	ASN	ILE	conflict	UNP O66529
VA	42	VAL	GLU	conflict	UNP O66529
VA	58	VAL	ILE	conflict	UNP O66529
VA	59	SER	THR	conflict	UNP O66529
VA	61	ASP	GLY	conflict	UNP O66529
VA	62	ILE	VAL	conflict	UNP O66529
VA	97	TYR	PHE	conflict	UNP O66529
VA	102	GLY	-	expression tag	UNP O66529
VA	103	THR	-	expression tag	UNP O66529
VA	104	GLU	-	expression tag	UNP O66529
VA	105	HIS	-	expression tag	UNP O66529
VA	106	HIS	-	expression tag	UNP O66529
VA	107	HIS	-	expression tag	UNP O66529
VA	108	HIS	-	expression tag	UNP O66529
VA	109	LEU	-	expression tag	UNP O66529
VA	110	HIS	-	expression tag	UNP O66529
VA	111	GLY	-	expression tag	UNP O66529
VA	112	SER	-	expression tag	UNP O66529
VA	113	SER	-	expression tag	UNP O66529
VB	1	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
VB	2	GLY	-	expression tag	UNP O66529
VB	3	ASN	-	expression tag	UNP O66529
VB	4	ALA	-	expression tag	UNP O66529
VB	5	ARG	-	expression tag	UNP O66529
VB	6	THR	-	expression tag	UNP O66529
VB	7	ARG	-	expression tag	UNP O66529
VB	8	ARG	-	expression tag	UNP O66529
VB	9	ARG	-	expression tag	UNP O66529
VB	10	GLU	-	expression tag	UNP O66529
VB	11	ARG	-	expression tag	UNP O66529
VB	12	ARG	-	expression tag	UNP O66529
VB	13	ALA	-	expression tag	UNP O66529
VB	14	GLU	-	expression tag	UNP O66529
VB	15	LYS	-	expression tag	UNP O66529
VB	16	GLN	-	expression tag	UNP O66529
VB	17	ALA	-	expression tag	UNP O66529
VB	18	GLN	-	expression tag	UNP O66529
VB	19	TRP	-	expression tag	UNP O66529
VB	20	LYS	-	expression tag	UNP O66529
VB	21	ALA	-	expression tag	UNP O66529
VB	22	ALA	-	expression tag	UNP O66529
VB	23	ASN	-	expression tag	UNP O66529
VB	24	ALA	-	expression tag	UNP O66529
VB	25	GLY	-	expression tag	UNP O66529
VB	26	ALA	-	expression tag	UNP O66529
VB	27	GLY	-	expression tag	UNP O66529
VB	28	ALA	-	expression tag	UNP O66529
VB	29	GLY	-	expression tag	UNP O66529
VB	30	ALA	-	expression tag	UNP O66529
VB	31	MET	-	expression tag	UNP O66529
VB	39	ASN	ILE	conflict	UNP O66529
VB	42	VAL	GLU	conflict	UNP O66529
VB	58	VAL	ILE	conflict	UNP O66529
VB	59	SER	THR	conflict	UNP O66529
VB	61	ASP	GLY	conflict	UNP O66529
VB	62	ILE	VAL	conflict	UNP O66529
VB	97	TYR	PHE	conflict	UNP O66529
VB	102	GLY	-	expression tag	UNP O66529
VB	103	THR	-	expression tag	UNP O66529
VB	104	GLU	-	expression tag	UNP O66529
VB	105	HIS	-	expression tag	UNP O66529
VB	106	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
VB	107	HIS	-	expression tag	UNP O66529
VB	108	HIS	-	expression tag	UNP O66529
VB	109	LEU	-	expression tag	UNP O66529
VB	110	HIS	-	expression tag	UNP O66529
VB	111	GLY	-	expression tag	UNP O66529
VB	112	SER	-	expression tag	UNP O66529
VB	113	SER	-	expression tag	UNP O66529
VC	1	MET	-	initiating methionine	UNP O66529
VC	2	GLY	-	expression tag	UNP O66529
VC	3	ASN	-	expression tag	UNP O66529
VC	4	ALA	-	expression tag	UNP O66529
VC	5	ARG	-	expression tag	UNP O66529
VC	6	THR	-	expression tag	UNP O66529
VC	7	ARG	-	expression tag	UNP O66529
VC	8	ARG	-	expression tag	UNP O66529
VC	9	ARG	-	expression tag	UNP O66529
VC	10	GLU	-	expression tag	UNP O66529
VC	11	ARG	-	expression tag	UNP O66529
VC	12	ARG	-	expression tag	UNP O66529
VC	13	ALA	-	expression tag	UNP O66529
VC	14	GLU	-	expression tag	UNP O66529
VC	15	LYS	-	expression tag	UNP O66529
VC	16	GLN	-	expression tag	UNP O66529
VC	17	ALA	-	expression tag	UNP O66529
VC	18	GLN	-	expression tag	UNP O66529
VC	19	TRP	-	expression tag	UNP O66529
VC	20	LYS	-	expression tag	UNP O66529
VC	21	ALA	-	expression tag	UNP O66529
VC	22	ALA	-	expression tag	UNP O66529
VC	23	ASN	-	expression tag	UNP O66529
VC	24	ALA	-	expression tag	UNP O66529
VC	25	GLY	-	expression tag	UNP O66529
VC	26	ALA	-	expression tag	UNP O66529
VC	27	GLY	-	expression tag	UNP O66529
VC	28	ALA	-	expression tag	UNP O66529
VC	29	GLY	-	expression tag	UNP O66529
VC	30	ALA	-	expression tag	UNP O66529
VC	31	MET	-	expression tag	UNP O66529
VC	39	ASN	ILE	conflict	UNP O66529
VC	42	VAL	GLU	conflict	UNP O66529
VC	58	VAL	ILE	conflict	UNP O66529
VC	59	SER	THR	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
VC	61	ASP	GLY	conflict	UNP O66529
VC	62	ILE	VAL	conflict	UNP O66529
VC	97	TYR	PHE	conflict	UNP O66529
VC	102	GLY	-	expression tag	UNP O66529
VC	103	THR	-	expression tag	UNP O66529
VC	104	GLU	-	expression tag	UNP O66529
VC	105	HIS	-	expression tag	UNP O66529
VC	106	HIS	-	expression tag	UNP O66529
VC	107	HIS	-	expression tag	UNP O66529
VC	108	HIS	-	expression tag	UNP O66529
VC	109	LEU	-	expression tag	UNP O66529
VC	110	HIS	-	expression tag	UNP O66529
VC	111	GLY	-	expression tag	UNP O66529
VC	112	SER	-	expression tag	UNP O66529
VC	113	SER	-	expression tag	UNP O66529
VD	1	MET	-	initiating methionine	UNP O66529
VD	2	GLY	-	expression tag	UNP O66529
VD	3	ASN	-	expression tag	UNP O66529
VD	4	ALA	-	expression tag	UNP O66529
VD	5	ARG	-	expression tag	UNP O66529
VD	6	THR	-	expression tag	UNP O66529
VD	7	ARG	-	expression tag	UNP O66529
VD	8	ARG	-	expression tag	UNP O66529
VD	9	ARG	-	expression tag	UNP O66529
VD	10	GLU	-	expression tag	UNP O66529
VD	11	ARG	-	expression tag	UNP O66529
VD	12	ARG	-	expression tag	UNP O66529
VD	13	ALA	-	expression tag	UNP O66529
VD	14	GLU	-	expression tag	UNP O66529
VD	15	LYS	-	expression tag	UNP O66529
VD	16	GLN	-	expression tag	UNP O66529
VD	17	ALA	-	expression tag	UNP O66529
VD	18	GLN	-	expression tag	UNP O66529
VD	19	TRP	-	expression tag	UNP O66529
VD	20	LYS	-	expression tag	UNP O66529
VD	21	ALA	-	expression tag	UNP O66529
VD	22	ALA	-	expression tag	UNP O66529
VD	23	ASN	-	expression tag	UNP O66529
VD	24	ALA	-	expression tag	UNP O66529
VD	25	GLY	-	expression tag	UNP O66529
VD	26	ALA	-	expression tag	UNP O66529
VD	27	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
VD	28	ALA	-	expression tag	UNP O66529
VD	29	GLY	-	expression tag	UNP O66529
VD	30	ALA	-	expression tag	UNP O66529
VD	31	MET	-	expression tag	UNP O66529
VD	39	ASN	ILE	conflict	UNP O66529
VD	42	VAL	GLU	conflict	UNP O66529
VD	58	VAL	ILE	conflict	UNP O66529
VD	59	SER	THR	conflict	UNP O66529
VD	61	ASP	GLY	conflict	UNP O66529
VD	62	ILE	VAL	conflict	UNP O66529
VD	97	TYR	PHE	conflict	UNP O66529
VD	102	GLY	-	expression tag	UNP O66529
VD	103	THR	-	expression tag	UNP O66529
VD	104	GLU	-	expression tag	UNP O66529
VD	105	HIS	-	expression tag	UNP O66529
VD	106	HIS	-	expression tag	UNP O66529
VD	107	HIS	-	expression tag	UNP O66529
VD	108	HIS	-	expression tag	UNP O66529
VD	109	LEU	-	expression tag	UNP O66529
VD	110	HIS	-	expression tag	UNP O66529
VD	111	GLY	-	expression tag	UNP O66529
VD	112	SER	-	expression tag	UNP O66529
VD	113	SER	-	expression tag	UNP O66529
WA	1	MET	-	initiating methionine	UNP O66529
WA	2	GLY	-	expression tag	UNP O66529
WA	3	ASN	-	expression tag	UNP O66529
WA	4	ALA	-	expression tag	UNP O66529
WA	5	ARG	-	expression tag	UNP O66529
WA	6	THR	-	expression tag	UNP O66529
WA	7	ARG	-	expression tag	UNP O66529
WA	8	ARG	-	expression tag	UNP O66529
WA	9	ARG	-	expression tag	UNP O66529
WA	10	GLU	-	expression tag	UNP O66529
WA	11	ARG	-	expression tag	UNP O66529
WA	12	ARG	-	expression tag	UNP O66529
WA	13	ALA	-	expression tag	UNP O66529
WA	14	GLU	-	expression tag	UNP O66529
WA	15	LYS	-	expression tag	UNP O66529
WA	16	GLN	-	expression tag	UNP O66529
WA	17	ALA	-	expression tag	UNP O66529
WA	18	GLN	-	expression tag	UNP O66529
WA	19	TRP	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
WA	20	LYS	-	expression tag	UNP O66529
WA	21	ALA	-	expression tag	UNP O66529
WA	22	ALA	-	expression tag	UNP O66529
WA	23	ASN	-	expression tag	UNP O66529
WA	24	ALA	-	expression tag	UNP O66529
WA	25	GLY	-	expression tag	UNP O66529
WA	26	ALA	-	expression tag	UNP O66529
WA	27	GLY	-	expression tag	UNP O66529
WA	28	ALA	-	expression tag	UNP O66529
WA	29	GLY	-	expression tag	UNP O66529
WA	30	ALA	-	expression tag	UNP O66529
WA	31	MET	-	expression tag	UNP O66529
WA	39	ASN	ILE	conflict	UNP O66529
WA	42	VAL	GLU	conflict	UNP O66529
WA	58	VAL	ILE	conflict	UNP O66529
WA	59	SER	THR	conflict	UNP O66529
WA	61	ASP	GLY	conflict	UNP O66529
WA	62	ILE	VAL	conflict	UNP O66529
WA	97	TYR	PHE	conflict	UNP O66529
WA	102	GLY	-	expression tag	UNP O66529
WA	103	THR	-	expression tag	UNP O66529
WA	104	GLU	-	expression tag	UNP O66529
WA	105	HIS	-	expression tag	UNP O66529
WA	106	HIS	-	expression tag	UNP O66529
WA	107	HIS	-	expression tag	UNP O66529
WA	108	HIS	-	expression tag	UNP O66529
WA	109	LEU	-	expression tag	UNP O66529
WA	110	HIS	-	expression tag	UNP O66529
WA	111	GLY	-	expression tag	UNP O66529
WA	112	SER	-	expression tag	UNP O66529
WA	113	SER	-	expression tag	UNP O66529
WB	1	MET	-	initiating methionine	UNP O66529
WB	2	GLY	-	expression tag	UNP O66529
WB	3	ASN	-	expression tag	UNP O66529
WB	4	ALA	-	expression tag	UNP O66529
WB	5	ARG	-	expression tag	UNP O66529
WB	6	THR	-	expression tag	UNP O66529
WB	7	ARG	-	expression tag	UNP O66529
WB	8	ARG	-	expression tag	UNP O66529
WB	9	ARG	-	expression tag	UNP O66529
WB	10	GLU	-	expression tag	UNP O66529
WB	11	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
WB	12	ARG	-	expression tag	UNP O66529
WB	13	ALA	-	expression tag	UNP O66529
WB	14	GLU	-	expression tag	UNP O66529
WB	15	LYS	-	expression tag	UNP O66529
WB	16	GLN	-	expression tag	UNP O66529
WB	17	ALA	-	expression tag	UNP O66529
WB	18	GLN	-	expression tag	UNP O66529
WB	19	TRP	-	expression tag	UNP O66529
WB	20	LYS	-	expression tag	UNP O66529
WB	21	ALA	-	expression tag	UNP O66529
WB	22	ALA	-	expression tag	UNP O66529
WB	23	ASN	-	expression tag	UNP O66529
WB	24	ALA	-	expression tag	UNP O66529
WB	25	GLY	-	expression tag	UNP O66529
WB	26	ALA	-	expression tag	UNP O66529
WB	27	GLY	-	expression tag	UNP O66529
WB	28	ALA	-	expression tag	UNP O66529
WB	29	GLY	-	expression tag	UNP O66529
WB	30	ALA	-	expression tag	UNP O66529
WB	31	MET	-	expression tag	UNP O66529
WB	39	ASN	ILE	conflict	UNP O66529
WB	42	VAL	GLU	conflict	UNP O66529
WB	58	VAL	ILE	conflict	UNP O66529
WB	59	SER	THR	conflict	UNP O66529
WB	61	ASP	GLY	conflict	UNP O66529
WB	62	ILE	VAL	conflict	UNP O66529
WB	97	TYR	PHE	conflict	UNP O66529
WB	102	GLY	-	expression tag	UNP O66529
WB	103	THR	-	expression tag	UNP O66529
WB	104	GLU	-	expression tag	UNP O66529
WB	105	HIS	-	expression tag	UNP O66529
WB	106	HIS	-	expression tag	UNP O66529
WB	107	HIS	-	expression tag	UNP O66529
WB	108	HIS	-	expression tag	UNP O66529
WB	109	LEU	-	expression tag	UNP O66529
WB	110	HIS	-	expression tag	UNP O66529
WB	111	GLY	-	expression tag	UNP O66529
WB	112	SER	-	expression tag	UNP O66529
WB	113	SER	-	expression tag	UNP O66529
WC	1	MET	-	initiating methionine	UNP O66529
WC	2	GLY	-	expression tag	UNP O66529
WC	3	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
WC	4	ALA	-	expression tag	UNP O66529
WC	5	ARG	-	expression tag	UNP O66529
WC	6	THR	-	expression tag	UNP O66529
WC	7	ARG	-	expression tag	UNP O66529
WC	8	ARG	-	expression tag	UNP O66529
WC	9	ARG	-	expression tag	UNP O66529
WC	10	GLU	-	expression tag	UNP O66529
WC	11	ARG	-	expression tag	UNP O66529
WC	12	ARG	-	expression tag	UNP O66529
WC	13	ALA	-	expression tag	UNP O66529
WC	14	GLU	-	expression tag	UNP O66529
WC	15	LYS	-	expression tag	UNP O66529
WC	16	GLN	-	expression tag	UNP O66529
WC	17	ALA	-	expression tag	UNP O66529
WC	18	GLN	-	expression tag	UNP O66529
WC	19	TRP	-	expression tag	UNP O66529
WC	20	LYS	-	expression tag	UNP O66529
WC	21	ALA	-	expression tag	UNP O66529
WC	22	ALA	-	expression tag	UNP O66529
WC	23	ASN	-	expression tag	UNP O66529
WC	24	ALA	-	expression tag	UNP O66529
WC	25	GLY	-	expression tag	UNP O66529
WC	26	ALA	-	expression tag	UNP O66529
WC	27	GLY	-	expression tag	UNP O66529
WC	28	ALA	-	expression tag	UNP O66529
WC	29	GLY	-	expression tag	UNP O66529
WC	30	ALA	-	expression tag	UNP O66529
WC	31	MET	-	expression tag	UNP O66529
WC	39	ASN	ILE	conflict	UNP O66529
WC	42	VAL	GLU	conflict	UNP O66529
WC	58	VAL	ILE	conflict	UNP O66529
WC	59	SER	THR	conflict	UNP O66529
WC	61	ASP	GLY	conflict	UNP O66529
WC	62	ILE	VAL	conflict	UNP O66529
WC	97	TYR	PHE	conflict	UNP O66529
WC	102	GLY	-	expression tag	UNP O66529
WC	103	THR	-	expression tag	UNP O66529
WC	104	GLU	-	expression tag	UNP O66529
WC	105	HIS	-	expression tag	UNP O66529
WC	106	HIS	-	expression tag	UNP O66529
WC	107	HIS	-	expression tag	UNP O66529
WC	108	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
WC	109	LEU	-	expression tag	UNP O66529
WC	110	HIS	-	expression tag	UNP O66529
WC	111	GLY	-	expression tag	UNP O66529
WC	112	SER	-	expression tag	UNP O66529
WC	113	SER	-	expression tag	UNP O66529
WD	1	MET	-	initiating methionine	UNP O66529
WD	2	GLY	-	expression tag	UNP O66529
WD	3	ASN	-	expression tag	UNP O66529
WD	4	ALA	-	expression tag	UNP O66529
WD	5	ARG	-	expression tag	UNP O66529
WD	6	THR	-	expression tag	UNP O66529
WD	7	ARG	-	expression tag	UNP O66529
WD	8	ARG	-	expression tag	UNP O66529
WD	9	ARG	-	expression tag	UNP O66529
WD	10	GLU	-	expression tag	UNP O66529
WD	11	ARG	-	expression tag	UNP O66529
WD	12	ARG	-	expression tag	UNP O66529
WD	13	ALA	-	expression tag	UNP O66529
WD	14	GLU	-	expression tag	UNP O66529
WD	15	LYS	-	expression tag	UNP O66529
WD	16	GLN	-	expression tag	UNP O66529
WD	17	ALA	-	expression tag	UNP O66529
WD	18	GLN	-	expression tag	UNP O66529
WD	19	TRP	-	expression tag	UNP O66529
WD	20	LYS	-	expression tag	UNP O66529
WD	21	ALA	-	expression tag	UNP O66529
WD	22	ALA	-	expression tag	UNP O66529
WD	23	ASN	-	expression tag	UNP O66529
WD	24	ALA	-	expression tag	UNP O66529
WD	25	GLY	-	expression tag	UNP O66529
WD	26	ALA	-	expression tag	UNP O66529
WD	27	GLY	-	expression tag	UNP O66529
WD	28	ALA	-	expression tag	UNP O66529
WD	29	GLY	-	expression tag	UNP O66529
WD	30	ALA	-	expression tag	UNP O66529
WD	31	MET	-	expression tag	UNP O66529
WD	39	ASN	ILE	conflict	UNP O66529
WD	42	VAL	GLU	conflict	UNP O66529
WD	58	VAL	ILE	conflict	UNP O66529
WD	59	SER	THR	conflict	UNP O66529
WD	61	ASP	GLY	conflict	UNP O66529
WD	62	ILE	VAL	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
WD	97	TYR	PHE	conflict	UNP O66529
WD	102	GLY	-	expression tag	UNP O66529
WD	103	THR	-	expression tag	UNP O66529
WD	104	GLU	-	expression tag	UNP O66529
WD	105	HIS	-	expression tag	UNP O66529
WD	106	HIS	-	expression tag	UNP O66529
WD	107	HIS	-	expression tag	UNP O66529
WD	108	HIS	-	expression tag	UNP O66529
WD	109	LEU	-	expression tag	UNP O66529
WD	110	HIS	-	expression tag	UNP O66529
WD	111	GLY	-	expression tag	UNP O66529
WD	112	SER	-	expression tag	UNP O66529
WD	113	SER	-	expression tag	UNP O66529
XA	1	MET	-	initiating methionine	UNP O66529
XA	2	GLY	-	expression tag	UNP O66529
XA	3	ASN	-	expression tag	UNP O66529
XA	4	ALA	-	expression tag	UNP O66529
XA	5	ARG	-	expression tag	UNP O66529
XA	6	THR	-	expression tag	UNP O66529
XA	7	ARG	-	expression tag	UNP O66529
XA	8	ARG	-	expression tag	UNP O66529
XA	9	ARG	-	expression tag	UNP O66529
XA	10	GLU	-	expression tag	UNP O66529
XA	11	ARG	-	expression tag	UNP O66529
XA	12	ARG	-	expression tag	UNP O66529
XA	13	ALA	-	expression tag	UNP O66529
XA	14	GLU	-	expression tag	UNP O66529
XA	15	LYS	-	expression tag	UNP O66529
XA	16	GLN	-	expression tag	UNP O66529
XA	17	ALA	-	expression tag	UNP O66529
XA	18	GLN	-	expression tag	UNP O66529
XA	19	TRP	-	expression tag	UNP O66529
XA	20	LYS	-	expression tag	UNP O66529
XA	21	ALA	-	expression tag	UNP O66529
XA	22	ALA	-	expression tag	UNP O66529
XA	23	ASN	-	expression tag	UNP O66529
XA	24	ALA	-	expression tag	UNP O66529
XA	25	GLY	-	expression tag	UNP O66529
XA	26	ALA	-	expression tag	UNP O66529
XA	27	GLY	-	expression tag	UNP O66529
XA	28	ALA	-	expression tag	UNP O66529
XA	29	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
XA	30	ALA	-	expression tag	UNP O66529
XA	31	MET	-	expression tag	UNP O66529
XA	39	ASN	ILE	conflict	UNP O66529
XA	42	VAL	GLU	conflict	UNP O66529
XA	58	VAL	ILE	conflict	UNP O66529
XA	59	SER	THR	conflict	UNP O66529
XA	61	ASP	GLY	conflict	UNP O66529
XA	62	ILE	VAL	conflict	UNP O66529
XA	97	TYR	PHE	conflict	UNP O66529
XA	102	GLY	-	expression tag	UNP O66529
XA	103	THR	-	expression tag	UNP O66529
XA	104	GLU	-	expression tag	UNP O66529
XA	105	HIS	-	expression tag	UNP O66529
XA	106	HIS	-	expression tag	UNP O66529
XA	107	HIS	-	expression tag	UNP O66529
XA	108	HIS	-	expression tag	UNP O66529
XA	109	LEU	-	expression tag	UNP O66529
XA	110	HIS	-	expression tag	UNP O66529
XA	111	GLY	-	expression tag	UNP O66529
XA	112	SER	-	expression tag	UNP O66529
XA	113	SER	-	expression tag	UNP O66529
XB	1	MET	-	initiating methionine	UNP O66529
XB	2	GLY	-	expression tag	UNP O66529
XB	3	ASN	-	expression tag	UNP O66529
XB	4	ALA	-	expression tag	UNP O66529
XB	5	ARG	-	expression tag	UNP O66529
XB	6	THR	-	expression tag	UNP O66529
XB	7	ARG	-	expression tag	UNP O66529
XB	8	ARG	-	expression tag	UNP O66529
XB	9	ARG	-	expression tag	UNP O66529
XB	10	GLU	-	expression tag	UNP O66529
XB	11	ARG	-	expression tag	UNP O66529
XB	12	ARG	-	expression tag	UNP O66529
XB	13	ALA	-	expression tag	UNP O66529
XB	14	GLU	-	expression tag	UNP O66529
XB	15	LYS	-	expression tag	UNP O66529
XB	16	GLN	-	expression tag	UNP O66529
XB	17	ALA	-	expression tag	UNP O66529
XB	18	GLN	-	expression tag	UNP O66529
XB	19	TRP	-	expression tag	UNP O66529
XB	20	LYS	-	expression tag	UNP O66529
XB	21	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
XB	22	ALA	-	expression tag	UNP O66529
XB	23	ASN	-	expression tag	UNP O66529
XB	24	ALA	-	expression tag	UNP O66529
XB	25	GLY	-	expression tag	UNP O66529
XB	26	ALA	-	expression tag	UNP O66529
XB	27	GLY	-	expression tag	UNP O66529
XB	28	ALA	-	expression tag	UNP O66529
XB	29	GLY	-	expression tag	UNP O66529
XB	30	ALA	-	expression tag	UNP O66529
XB	31	MET	-	expression tag	UNP O66529
XB	39	ASN	ILE	conflict	UNP O66529
XB	42	VAL	GLU	conflict	UNP O66529
XB	58	VAL	ILE	conflict	UNP O66529
XB	59	SER	THR	conflict	UNP O66529
XB	61	ASP	GLY	conflict	UNP O66529
XB	62	ILE	VAL	conflict	UNP O66529
XB	97	TYR	PHE	conflict	UNP O66529
XB	102	GLY	-	expression tag	UNP O66529
XB	103	THR	-	expression tag	UNP O66529
XB	104	GLU	-	expression tag	UNP O66529
XB	105	HIS	-	expression tag	UNP O66529
XB	106	HIS	-	expression tag	UNP O66529
XB	107	HIS	-	expression tag	UNP O66529
XB	108	HIS	-	expression tag	UNP O66529
XB	109	LEU	-	expression tag	UNP O66529
XB	110	HIS	-	expression tag	UNP O66529
XB	111	GLY	-	expression tag	UNP O66529
XB	112	SER	-	expression tag	UNP O66529
XB	113	SER	-	expression tag	UNP O66529
XC	1	MET	-	initiating methionine	UNP O66529
XC	2	GLY	-	expression tag	UNP O66529
XC	3	ASN	-	expression tag	UNP O66529
XC	4	ALA	-	expression tag	UNP O66529
XC	5	ARG	-	expression tag	UNP O66529
XC	6	THR	-	expression tag	UNP O66529
XC	7	ARG	-	expression tag	UNP O66529
XC	8	ARG	-	expression tag	UNP O66529
XC	9	ARG	-	expression tag	UNP O66529
XC	10	GLU	-	expression tag	UNP O66529
XC	11	ARG	-	expression tag	UNP O66529
XC	12	ARG	-	expression tag	UNP O66529
XC	13	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
XC	14	GLU	-	expression tag	UNP O66529
XC	15	LYS	-	expression tag	UNP O66529
XC	16	GLN	-	expression tag	UNP O66529
XC	17	ALA	-	expression tag	UNP O66529
XC	18	GLN	-	expression tag	UNP O66529
XC	19	TRP	-	expression tag	UNP O66529
XC	20	LYS	-	expression tag	UNP O66529
XC	21	ALA	-	expression tag	UNP O66529
XC	22	ALA	-	expression tag	UNP O66529
XC	23	ASN	-	expression tag	UNP O66529
XC	24	ALA	-	expression tag	UNP O66529
XC	25	GLY	-	expression tag	UNP O66529
XC	26	ALA	-	expression tag	UNP O66529
XC	27	GLY	-	expression tag	UNP O66529
XC	28	ALA	-	expression tag	UNP O66529
XC	29	GLY	-	expression tag	UNP O66529
XC	30	ALA	-	expression tag	UNP O66529
XC	31	MET	-	expression tag	UNP O66529
XC	39	ASN	ILE	conflict	UNP O66529
XC	42	VAL	GLU	conflict	UNP O66529
XC	58	VAL	ILE	conflict	UNP O66529
XC	59	SER	THR	conflict	UNP O66529
XC	61	ASP	GLY	conflict	UNP O66529
XC	62	ILE	VAL	conflict	UNP O66529
XC	97	TYR	PHE	conflict	UNP O66529
XC	102	GLY	-	expression tag	UNP O66529
XC	103	THR	-	expression tag	UNP O66529
XC	104	GLU	-	expression tag	UNP O66529
XC	105	HIS	-	expression tag	UNP O66529
XC	106	HIS	-	expression tag	UNP O66529
XC	107	HIS	-	expression tag	UNP O66529
XC	108	HIS	-	expression tag	UNP O66529
XC	109	LEU	-	expression tag	UNP O66529
XC	110	HIS	-	expression tag	UNP O66529
XC	111	GLY	-	expression tag	UNP O66529
XC	112	SER	-	expression tag	UNP O66529
XC	113	SER	-	expression tag	UNP O66529
XD	1	MET	-	initiating methionine	UNP O66529
XD	2	GLY	-	expression tag	UNP O66529
XD	3	ASN	-	expression tag	UNP O66529
XD	4	ALA	-	expression tag	UNP O66529
XD	5	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
XD	6	THR	-	expression tag	UNP O66529
XD	7	ARG	-	expression tag	UNP O66529
XD	8	ARG	-	expression tag	UNP O66529
XD	9	ARG	-	expression tag	UNP O66529
XD	10	GLU	-	expression tag	UNP O66529
XD	11	ARG	-	expression tag	UNP O66529
XD	12	ARG	-	expression tag	UNP O66529
XD	13	ALA	-	expression tag	UNP O66529
XD	14	GLU	-	expression tag	UNP O66529
XD	15	LYS	-	expression tag	UNP O66529
XD	16	GLN	-	expression tag	UNP O66529
XD	17	ALA	-	expression tag	UNP O66529
XD	18	GLN	-	expression tag	UNP O66529
XD	19	TRP	-	expression tag	UNP O66529
XD	20	LYS	-	expression tag	UNP O66529
XD	21	ALA	-	expression tag	UNP O66529
XD	22	ALA	-	expression tag	UNP O66529
XD	23	ASN	-	expression tag	UNP O66529
XD	24	ALA	-	expression tag	UNP O66529
XD	25	GLY	-	expression tag	UNP O66529
XD	26	ALA	-	expression tag	UNP O66529
XD	27	GLY	-	expression tag	UNP O66529
XD	28	ALA	-	expression tag	UNP O66529
XD	29	GLY	-	expression tag	UNP O66529
XD	30	ALA	-	expression tag	UNP O66529
XD	31	MET	-	expression tag	UNP O66529
XD	39	ASN	ILE	conflict	UNP O66529
XD	42	VAL	GLU	conflict	UNP O66529
XD	58	VAL	ILE	conflict	UNP O66529
XD	59	SER	THR	conflict	UNP O66529
XD	61	ASP	GLY	conflict	UNP O66529
XD	62	ILE	VAL	conflict	UNP O66529
XD	97	TYR	PHE	conflict	UNP O66529
XD	102	GLY	-	expression tag	UNP O66529
XD	103	THR	-	expression tag	UNP O66529
XD	104	GLU	-	expression tag	UNP O66529
XD	105	HIS	-	expression tag	UNP O66529
XD	106	HIS	-	expression tag	UNP O66529
XD	107	HIS	-	expression tag	UNP O66529
XD	108	HIS	-	expression tag	UNP O66529
XD	109	LEU	-	expression tag	UNP O66529
XD	110	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
XD	111	GLY	-	expression tag	UNP O66529
XD	112	SER	-	expression tag	UNP O66529
XD	113	SER	-	expression tag	UNP O66529
YA	1	MET	-	initiating methionine	UNP O66529
YA	2	GLY	-	expression tag	UNP O66529
YA	3	ASN	-	expression tag	UNP O66529
YA	4	ALA	-	expression tag	UNP O66529
YA	5	ARG	-	expression tag	UNP O66529
YA	6	THR	-	expression tag	UNP O66529
YA	7	ARG	-	expression tag	UNP O66529
YA	8	ARG	-	expression tag	UNP O66529
YA	9	ARG	-	expression tag	UNP O66529
YA	10	GLU	-	expression tag	UNP O66529
YA	11	ARG	-	expression tag	UNP O66529
YA	12	ARG	-	expression tag	UNP O66529
YA	13	ALA	-	expression tag	UNP O66529
YA	14	GLU	-	expression tag	UNP O66529
YA	15	LYS	-	expression tag	UNP O66529
YA	16	GLN	-	expression tag	UNP O66529
YA	17	ALA	-	expression tag	UNP O66529
YA	18	GLN	-	expression tag	UNP O66529
YA	19	TRP	-	expression tag	UNP O66529
YA	20	LYS	-	expression tag	UNP O66529
YA	21	ALA	-	expression tag	UNP O66529
YA	22	ALA	-	expression tag	UNP O66529
YA	23	ASN	-	expression tag	UNP O66529
YA	24	ALA	-	expression tag	UNP O66529
YA	25	GLY	-	expression tag	UNP O66529
YA	26	ALA	-	expression tag	UNP O66529
YA	27	GLY	-	expression tag	UNP O66529
YA	28	ALA	-	expression tag	UNP O66529
YA	29	GLY	-	expression tag	UNP O66529
YA	30	ALA	-	expression tag	UNP O66529
YA	31	MET	-	expression tag	UNP O66529
YA	39	ASN	ILE	conflict	UNP O66529
YA	42	VAL	GLU	conflict	UNP O66529
YA	58	VAL	ILE	conflict	UNP O66529
YA	59	SER	THR	conflict	UNP O66529
YA	61	ASP	GLY	conflict	UNP O66529
YA	62	ILE	VAL	conflict	UNP O66529
YA	97	TYR	PHE	conflict	UNP O66529
YA	102	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
YA	103	THR	-	expression tag	UNP O66529
YA	104	GLU	-	expression tag	UNP O66529
YA	105	HIS	-	expression tag	UNP O66529
YA	106	HIS	-	expression tag	UNP O66529
YA	107	HIS	-	expression tag	UNP O66529
YA	108	HIS	-	expression tag	UNP O66529
YA	109	LEU	-	expression tag	UNP O66529
YA	110	HIS	-	expression tag	UNP O66529
YA	111	GLY	-	expression tag	UNP O66529
YA	112	SER	-	expression tag	UNP O66529
YA	113	SER	-	expression tag	UNP O66529
YB	1	MET	-	initiating methionine	UNP O66529
YB	2	GLY	-	expression tag	UNP O66529
YB	3	ASN	-	expression tag	UNP O66529
YB	4	ALA	-	expression tag	UNP O66529
YB	5	ARG	-	expression tag	UNP O66529
YB	6	THR	-	expression tag	UNP O66529
YB	7	ARG	-	expression tag	UNP O66529
YB	8	ARG	-	expression tag	UNP O66529
YB	9	ARG	-	expression tag	UNP O66529
YB	10	GLU	-	expression tag	UNP O66529
YB	11	ARG	-	expression tag	UNP O66529
YB	12	ARG	-	expression tag	UNP O66529
YB	13	ALA	-	expression tag	UNP O66529
YB	14	GLU	-	expression tag	UNP O66529
YB	15	LYS	-	expression tag	UNP O66529
YB	16	GLN	-	expression tag	UNP O66529
YB	17	ALA	-	expression tag	UNP O66529
YB	18	GLN	-	expression tag	UNP O66529
YB	19	TRP	-	expression tag	UNP O66529
YB	20	LYS	-	expression tag	UNP O66529
YB	21	ALA	-	expression tag	UNP O66529
YB	22	ALA	-	expression tag	UNP O66529
YB	23	ASN	-	expression tag	UNP O66529
YB	24	ALA	-	expression tag	UNP O66529
YB	25	GLY	-	expression tag	UNP O66529
YB	26	ALA	-	expression tag	UNP O66529
YB	27	GLY	-	expression tag	UNP O66529
YB	28	ALA	-	expression tag	UNP O66529
YB	29	GLY	-	expression tag	UNP O66529
YB	30	ALA	-	expression tag	UNP O66529
YB	31	MET	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
YB	39	ASN	ILE	conflict	UNP O66529
YB	42	VAL	GLU	conflict	UNP O66529
YB	58	VAL	ILE	conflict	UNP O66529
YB	59	SER	THR	conflict	UNP O66529
YB	61	ASP	GLY	conflict	UNP O66529
YB	62	ILE	VAL	conflict	UNP O66529
YB	97	TYR	PHE	conflict	UNP O66529
YB	102	GLY	-	expression tag	UNP O66529
YB	103	THR	-	expression tag	UNP O66529
YB	104	GLU	-	expression tag	UNP O66529
YB	105	HIS	-	expression tag	UNP O66529
YB	106	HIS	-	expression tag	UNP O66529
YB	107	HIS	-	expression tag	UNP O66529
YB	108	HIS	-	expression tag	UNP O66529
YB	109	LEU	-	expression tag	UNP O66529
YB	110	HIS	-	expression tag	UNP O66529
YB	111	GLY	-	expression tag	UNP O66529
YB	112	SER	-	expression tag	UNP O66529
YB	113	SER	-	expression tag	UNP O66529
YC	1	MET	-	initiating methionine	UNP O66529
YC	2	GLY	-	expression tag	UNP O66529
YC	3	ASN	-	expression tag	UNP O66529
YC	4	ALA	-	expression tag	UNP O66529
YC	5	ARG	-	expression tag	UNP O66529
YC	6	THR	-	expression tag	UNP O66529
YC	7	ARG	-	expression tag	UNP O66529
YC	8	ARG	-	expression tag	UNP O66529
YC	9	ARG	-	expression tag	UNP O66529
YC	10	GLU	-	expression tag	UNP O66529
YC	11	ARG	-	expression tag	UNP O66529
YC	12	ARG	-	expression tag	UNP O66529
YC	13	ALA	-	expression tag	UNP O66529
YC	14	GLU	-	expression tag	UNP O66529
YC	15	LYS	-	expression tag	UNP O66529
YC	16	GLN	-	expression tag	UNP O66529
YC	17	ALA	-	expression tag	UNP O66529
YC	18	GLN	-	expression tag	UNP O66529
YC	19	TRP	-	expression tag	UNP O66529
YC	20	LYS	-	expression tag	UNP O66529
YC	21	ALA	-	expression tag	UNP O66529
YC	22	ALA	-	expression tag	UNP O66529
YC	23	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
YC	24	ALA	-	expression tag	UNP O66529
YC	25	GLY	-	expression tag	UNP O66529
YC	26	ALA	-	expression tag	UNP O66529
YC	27	GLY	-	expression tag	UNP O66529
YC	28	ALA	-	expression tag	UNP O66529
YC	29	GLY	-	expression tag	UNP O66529
YC	30	ALA	-	expression tag	UNP O66529
YC	31	MET	-	expression tag	UNP O66529
YC	39	ASN	ILE	conflict	UNP O66529
YC	42	VAL	GLU	conflict	UNP O66529
YC	58	VAL	ILE	conflict	UNP O66529
YC	59	SER	THR	conflict	UNP O66529
YC	61	ASP	GLY	conflict	UNP O66529
YC	62	ILE	VAL	conflict	UNP O66529
YC	97	TYR	PHE	conflict	UNP O66529
YC	102	GLY	-	expression tag	UNP O66529
YC	103	THR	-	expression tag	UNP O66529
YC	104	GLU	-	expression tag	UNP O66529
YC	105	HIS	-	expression tag	UNP O66529
YC	106	HIS	-	expression tag	UNP O66529
YC	107	HIS	-	expression tag	UNP O66529
YC	108	HIS	-	expression tag	UNP O66529
YC	109	LEU	-	expression tag	UNP O66529
YC	110	HIS	-	expression tag	UNP O66529
YC	111	GLY	-	expression tag	UNP O66529
YC	112	SER	-	expression tag	UNP O66529
YC	113	SER	-	expression tag	UNP O66529
YD	1	MET	-	initiating methionine	UNP O66529
YD	2	GLY	-	expression tag	UNP O66529
YD	3	ASN	-	expression tag	UNP O66529
YD	4	ALA	-	expression tag	UNP O66529
YD	5	ARG	-	expression tag	UNP O66529
YD	6	THR	-	expression tag	UNP O66529
YD	7	ARG	-	expression tag	UNP O66529
YD	8	ARG	-	expression tag	UNP O66529
YD	9	ARG	-	expression tag	UNP O66529
YD	10	GLU	-	expression tag	UNP O66529
YD	11	ARG	-	expression tag	UNP O66529
YD	12	ARG	-	expression tag	UNP O66529
YD	13	ALA	-	expression tag	UNP O66529
YD	14	GLU	-	expression tag	UNP O66529
YD	15	LYS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
YD	16	GLN	-	expression tag	UNP O66529
YD	17	ALA	-	expression tag	UNP O66529
YD	18	GLN	-	expression tag	UNP O66529
YD	19	TRP	-	expression tag	UNP O66529
YD	20	LYS	-	expression tag	UNP O66529
YD	21	ALA	-	expression tag	UNP O66529
YD	22	ALA	-	expression tag	UNP O66529
YD	23	ASN	-	expression tag	UNP O66529
YD	24	ALA	-	expression tag	UNP O66529
YD	25	GLY	-	expression tag	UNP O66529
YD	26	ALA	-	expression tag	UNP O66529
YD	27	GLY	-	expression tag	UNP O66529
YD	28	ALA	-	expression tag	UNP O66529
YD	29	GLY	-	expression tag	UNP O66529
YD	30	ALA	-	expression tag	UNP O66529
YD	31	MET	-	expression tag	UNP O66529
YD	39	ASN	ILE	conflict	UNP O66529
YD	42	VAL	GLU	conflict	UNP O66529
YD	58	VAL	ILE	conflict	UNP O66529
YD	59	SER	THR	conflict	UNP O66529
YD	61	ASP	GLY	conflict	UNP O66529
YD	62	ILE	VAL	conflict	UNP O66529
YD	97	TYR	PHE	conflict	UNP O66529
YD	102	GLY	-	expression tag	UNP O66529
YD	103	THR	-	expression tag	UNP O66529
YD	104	GLU	-	expression tag	UNP O66529
YD	105	HIS	-	expression tag	UNP O66529
YD	106	HIS	-	expression tag	UNP O66529
YD	107	HIS	-	expression tag	UNP O66529
YD	108	HIS	-	expression tag	UNP O66529
YD	109	LEU	-	expression tag	UNP O66529
YD	110	HIS	-	expression tag	UNP O66529
YD	111	GLY	-	expression tag	UNP O66529
YD	112	SER	-	expression tag	UNP O66529
YD	113	SER	-	expression tag	UNP O66529
ZA	1	MET	-	initiating methionine	UNP O66529
ZA	2	GLY	-	expression tag	UNP O66529
ZA	3	ASN	-	expression tag	UNP O66529
ZA	4	ALA	-	expression tag	UNP O66529
ZA	5	ARG	-	expression tag	UNP O66529
ZA	6	THR	-	expression tag	UNP O66529
ZA	7	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
ZA	8	ARG	-	expression tag	UNP O66529
ZA	9	ARG	-	expression tag	UNP O66529
ZA	10	GLU	-	expression tag	UNP O66529
ZA	11	ARG	-	expression tag	UNP O66529
ZA	12	ARG	-	expression tag	UNP O66529
ZA	13	ALA	-	expression tag	UNP O66529
ZA	14	GLU	-	expression tag	UNP O66529
ZA	15	LYS	-	expression tag	UNP O66529
ZA	16	GLN	-	expression tag	UNP O66529
ZA	17	ALA	-	expression tag	UNP O66529
ZA	18	GLN	-	expression tag	UNP O66529
ZA	19	TRP	-	expression tag	UNP O66529
ZA	20	LYS	-	expression tag	UNP O66529
ZA	21	ALA	-	expression tag	UNP O66529
ZA	22	ALA	-	expression tag	UNP O66529
ZA	23	ASN	-	expression tag	UNP O66529
ZA	24	ALA	-	expression tag	UNP O66529
ZA	25	GLY	-	expression tag	UNP O66529
ZA	26	ALA	-	expression tag	UNP O66529
ZA	27	GLY	-	expression tag	UNP O66529
ZA	28	ALA	-	expression tag	UNP O66529
ZA	29	GLY	-	expression tag	UNP O66529
ZA	30	ALA	-	expression tag	UNP O66529
ZA	31	MET	-	expression tag	UNP O66529
ZA	39	ASN	ILE	conflict	UNP O66529
ZA	42	VAL	GLU	conflict	UNP O66529
ZA	58	VAL	ILE	conflict	UNP O66529
ZA	59	SER	THR	conflict	UNP O66529
ZA	61	ASP	GLY	conflict	UNP O66529
ZA	62	ILE	VAL	conflict	UNP O66529
ZA	97	TYR	PHE	conflict	UNP O66529
ZA	102	GLY	-	expression tag	UNP O66529
ZA	103	THR	-	expression tag	UNP O66529
ZA	104	GLU	-	expression tag	UNP O66529
ZA	105	HIS	-	expression tag	UNP O66529
ZA	106	HIS	-	expression tag	UNP O66529
ZA	107	HIS	-	expression tag	UNP O66529
ZA	108	HIS	-	expression tag	UNP O66529
ZA	109	LEU	-	expression tag	UNP O66529
ZA	110	HIS	-	expression tag	UNP O66529
ZA	111	GLY	-	expression tag	UNP O66529
ZA	112	SER	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
ZA	113	SER	-	expression tag	UNP O66529
ZB	1	MET	-	initiating methionine	UNP O66529
ZB	2	GLY	-	expression tag	UNP O66529
ZB	3	ASN	-	expression tag	UNP O66529
ZB	4	ALA	-	expression tag	UNP O66529
ZB	5	ARG	-	expression tag	UNP O66529
ZB	6	THR	-	expression tag	UNP O66529
ZB	7	ARG	-	expression tag	UNP O66529
ZB	8	ARG	-	expression tag	UNP O66529
ZB	9	ARG	-	expression tag	UNP O66529
ZB	10	GLU	-	expression tag	UNP O66529
ZB	11	ARG	-	expression tag	UNP O66529
ZB	12	ARG	-	expression tag	UNP O66529
ZB	13	ALA	-	expression tag	UNP O66529
ZB	14	GLU	-	expression tag	UNP O66529
ZB	15	LYS	-	expression tag	UNP O66529
ZB	16	GLN	-	expression tag	UNP O66529
ZB	17	ALA	-	expression tag	UNP O66529
ZB	18	GLN	-	expression tag	UNP O66529
ZB	19	TRP	-	expression tag	UNP O66529
ZB	20	LYS	-	expression tag	UNP O66529
ZB	21	ALA	-	expression tag	UNP O66529
ZB	22	ALA	-	expression tag	UNP O66529
ZB	23	ASN	-	expression tag	UNP O66529
ZB	24	ALA	-	expression tag	UNP O66529
ZB	25	GLY	-	expression tag	UNP O66529
ZB	26	ALA	-	expression tag	UNP O66529
ZB	27	GLY	-	expression tag	UNP O66529
ZB	28	ALA	-	expression tag	UNP O66529
ZB	29	GLY	-	expression tag	UNP O66529
ZB	30	ALA	-	expression tag	UNP O66529
ZB	31	MET	-	expression tag	UNP O66529
ZB	39	ASN	ILE	conflict	UNP O66529
ZB	42	VAL	GLU	conflict	UNP O66529
ZB	58	VAL	ILE	conflict	UNP O66529
ZB	59	SER	THR	conflict	UNP O66529
ZB	61	ASP	GLY	conflict	UNP O66529
ZB	62	ILE	VAL	conflict	UNP O66529
ZB	97	TYR	PHE	conflict	UNP O66529
ZB	102	GLY	-	expression tag	UNP O66529
ZB	103	THR	-	expression tag	UNP O66529
ZB	104	GLU	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
ZB	105	HIS	-	expression tag	UNP O66529
ZB	106	HIS	-	expression tag	UNP O66529
ZB	107	HIS	-	expression tag	UNP O66529
ZB	108	HIS	-	expression tag	UNP O66529
ZB	109	LEU	-	expression tag	UNP O66529
ZB	110	HIS	-	expression tag	UNP O66529
ZB	111	GLY	-	expression tag	UNP O66529
ZB	112	SER	-	expression tag	UNP O66529
ZB	113	SER	-	expression tag	UNP O66529
ZC	1	MET	-	initiating methionine	UNP O66529
ZC	2	GLY	-	expression tag	UNP O66529
ZC	3	ASN	-	expression tag	UNP O66529
ZC	4	ALA	-	expression tag	UNP O66529
ZC	5	ARG	-	expression tag	UNP O66529
ZC	6	THR	-	expression tag	UNP O66529
ZC	7	ARG	-	expression tag	UNP O66529
ZC	8	ARG	-	expression tag	UNP O66529
ZC	9	ARG	-	expression tag	UNP O66529
ZC	10	GLU	-	expression tag	UNP O66529
ZC	11	ARG	-	expression tag	UNP O66529
ZC	12	ARG	-	expression tag	UNP O66529
ZC	13	ALA	-	expression tag	UNP O66529
ZC	14	GLU	-	expression tag	UNP O66529
ZC	15	LYS	-	expression tag	UNP O66529
ZC	16	GLN	-	expression tag	UNP O66529
ZC	17	ALA	-	expression tag	UNP O66529
ZC	18	GLN	-	expression tag	UNP O66529
ZC	19	TRP	-	expression tag	UNP O66529
ZC	20	LYS	-	expression tag	UNP O66529
ZC	21	ALA	-	expression tag	UNP O66529
ZC	22	ALA	-	expression tag	UNP O66529
ZC	23	ASN	-	expression tag	UNP O66529
ZC	24	ALA	-	expression tag	UNP O66529
ZC	25	GLY	-	expression tag	UNP O66529
ZC	26	ALA	-	expression tag	UNP O66529
ZC	27	GLY	-	expression tag	UNP O66529
ZC	28	ALA	-	expression tag	UNP O66529
ZC	29	GLY	-	expression tag	UNP O66529
ZC	30	ALA	-	expression tag	UNP O66529
ZC	31	MET	-	expression tag	UNP O66529
ZC	39	ASN	ILE	conflict	UNP O66529
ZC	42	VAL	GLU	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
ZC	58	VAL	ILE	conflict	UNP O66529
ZC	59	SER	THR	conflict	UNP O66529
ZC	61	ASP	GLY	conflict	UNP O66529
ZC	62	ILE	VAL	conflict	UNP O66529
ZC	97	TYR	PHE	conflict	UNP O66529
ZC	102	GLY	-	expression tag	UNP O66529
ZC	103	THR	-	expression tag	UNP O66529
ZC	104	GLU	-	expression tag	UNP O66529
ZC	105	HIS	-	expression tag	UNP O66529
ZC	106	HIS	-	expression tag	UNP O66529
ZC	107	HIS	-	expression tag	UNP O66529
ZC	108	HIS	-	expression tag	UNP O66529
ZC	109	LEU	-	expression tag	UNP O66529
ZC	110	HIS	-	expression tag	UNP O66529
ZC	111	GLY	-	expression tag	UNP O66529
ZC	112	SER	-	expression tag	UNP O66529
ZC	113	SER	-	expression tag	UNP O66529
ZD	1	MET	-	initiating methionine	UNP O66529
ZD	2	GLY	-	expression tag	UNP O66529
ZD	3	ASN	-	expression tag	UNP O66529
ZD	4	ALA	-	expression tag	UNP O66529
ZD	5	ARG	-	expression tag	UNP O66529
ZD	6	THR	-	expression tag	UNP O66529
ZD	7	ARG	-	expression tag	UNP O66529
ZD	8	ARG	-	expression tag	UNP O66529
ZD	9	ARG	-	expression tag	UNP O66529
ZD	10	GLU	-	expression tag	UNP O66529
ZD	11	ARG	-	expression tag	UNP O66529
ZD	12	ARG	-	expression tag	UNP O66529
ZD	13	ALA	-	expression tag	UNP O66529
ZD	14	GLU	-	expression tag	UNP O66529
ZD	15	LYS	-	expression tag	UNP O66529
ZD	16	GLN	-	expression tag	UNP O66529
ZD	17	ALA	-	expression tag	UNP O66529
ZD	18	GLN	-	expression tag	UNP O66529
ZD	19	TRP	-	expression tag	UNP O66529
ZD	20	LYS	-	expression tag	UNP O66529
ZD	21	ALA	-	expression tag	UNP O66529
ZD	22	ALA	-	expression tag	UNP O66529
ZD	23	ASN	-	expression tag	UNP O66529
ZD	24	ALA	-	expression tag	UNP O66529
ZD	25	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
ZD	26	ALA	-	expression tag	UNP O66529
ZD	27	GLY	-	expression tag	UNP O66529
ZD	28	ALA	-	expression tag	UNP O66529
ZD	29	GLY	-	expression tag	UNP O66529
ZD	30	ALA	-	expression tag	UNP O66529
ZD	31	MET	-	expression tag	UNP O66529
ZD	39	ASN	ILE	conflict	UNP O66529
ZD	42	VAL	GLU	conflict	UNP O66529
ZD	58	VAL	ILE	conflict	UNP O66529
ZD	59	SER	THR	conflict	UNP O66529
ZD	61	ASP	GLY	conflict	UNP O66529
ZD	62	ILE	VAL	conflict	UNP O66529
ZD	97	TYR	PHE	conflict	UNP O66529
ZD	102	GLY	-	expression tag	UNP O66529
ZD	103	THR	-	expression tag	UNP O66529
ZD	104	GLU	-	expression tag	UNP O66529
ZD	105	HIS	-	expression tag	UNP O66529
ZD	106	HIS	-	expression tag	UNP O66529
ZD	107	HIS	-	expression tag	UNP O66529
ZD	108	HIS	-	expression tag	UNP O66529
ZD	109	LEU	-	expression tag	UNP O66529
ZD	110	HIS	-	expression tag	UNP O66529
ZD	111	GLY	-	expression tag	UNP O66529
ZD	112	SER	-	expression tag	UNP O66529
ZD	113	SER	-	expression tag	UNP O66529
aA	1	MET	-	initiating methionine	UNP O66529
aA	2	GLY	-	expression tag	UNP O66529
aA	3	ASN	-	expression tag	UNP O66529
aA	4	ALA	-	expression tag	UNP O66529
aA	5	ARG	-	expression tag	UNP O66529
aA	6	THR	-	expression tag	UNP O66529
aA	7	ARG	-	expression tag	UNP O66529
aA	8	ARG	-	expression tag	UNP O66529
aA	9	ARG	-	expression tag	UNP O66529
aA	10	GLU	-	expression tag	UNP O66529
aA	11	ARG	-	expression tag	UNP O66529
aA	12	ARG	-	expression tag	UNP O66529
aA	13	ALA	-	expression tag	UNP O66529
aA	14	GLU	-	expression tag	UNP O66529
aA	15	LYS	-	expression tag	UNP O66529
aA	16	GLN	-	expression tag	UNP O66529
aA	17	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
aA	18	GLN	-	expression tag	UNP O66529
aA	19	TRP	-	expression tag	UNP O66529
aA	20	LYS	-	expression tag	UNP O66529
aA	21	ALA	-	expression tag	UNP O66529
aA	22	ALA	-	expression tag	UNP O66529
aA	23	ASN	-	expression tag	UNP O66529
aA	24	ALA	-	expression tag	UNP O66529
aA	25	GLY	-	expression tag	UNP O66529
aA	26	ALA	-	expression tag	UNP O66529
aA	27	GLY	-	expression tag	UNP O66529
aA	28	ALA	-	expression tag	UNP O66529
aA	29	GLY	-	expression tag	UNP O66529
aA	30	ALA	-	expression tag	UNP O66529
aA	31	MET	-	expression tag	UNP O66529
aA	39	ASN	ILE	conflict	UNP O66529
aA	42	VAL	GLU	conflict	UNP O66529
aA	58	VAL	ILE	conflict	UNP O66529
aA	59	SER	THR	conflict	UNP O66529
aA	61	ASP	GLY	conflict	UNP O66529
aA	62	ILE	VAL	conflict	UNP O66529
aA	97	TYR	PHE	conflict	UNP O66529
aA	102	GLY	-	expression tag	UNP O66529
aA	103	THR	-	expression tag	UNP O66529
aA	104	GLU	-	expression tag	UNP O66529
aA	105	HIS	-	expression tag	UNP O66529
aA	106	HIS	-	expression tag	UNP O66529
aA	107	HIS	-	expression tag	UNP O66529
aA	108	HIS	-	expression tag	UNP O66529
aA	109	LEU	-	expression tag	UNP O66529
aA	110	HIS	-	expression tag	UNP O66529
aA	111	GLY	-	expression tag	UNP O66529
aA	112	SER	-	expression tag	UNP O66529
aA	113	SER	-	expression tag	UNP O66529
aB	1	MET	-	initiating methionine	UNP O66529
aB	2	GLY	-	expression tag	UNP O66529
aB	3	ASN	-	expression tag	UNP O66529
aB	4	ALA	-	expression tag	UNP O66529
aB	5	ARG	-	expression tag	UNP O66529
aB	6	THR	-	expression tag	UNP O66529
aB	7	ARG	-	expression tag	UNP O66529
aB	8	ARG	-	expression tag	UNP O66529
aB	9	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
aB	10	GLU	-	expression tag	UNP O66529
aB	11	ARG	-	expression tag	UNP O66529
aB	12	ARG	-	expression tag	UNP O66529
aB	13	ALA	-	expression tag	UNP O66529
aB	14	GLU	-	expression tag	UNP O66529
aB	15	LYS	-	expression tag	UNP O66529
aB	16	GLN	-	expression tag	UNP O66529
aB	17	ALA	-	expression tag	UNP O66529
aB	18	GLN	-	expression tag	UNP O66529
aB	19	TRP	-	expression tag	UNP O66529
aB	20	LYS	-	expression tag	UNP O66529
aB	21	ALA	-	expression tag	UNP O66529
aB	22	ALA	-	expression tag	UNP O66529
aB	23	ASN	-	expression tag	UNP O66529
aB	24	ALA	-	expression tag	UNP O66529
aB	25	GLY	-	expression tag	UNP O66529
aB	26	ALA	-	expression tag	UNP O66529
aB	27	GLY	-	expression tag	UNP O66529
aB	28	ALA	-	expression tag	UNP O66529
aB	29	GLY	-	expression tag	UNP O66529
aB	30	ALA	-	expression tag	UNP O66529
aB	31	MET	-	expression tag	UNP O66529
aB	39	ASN	ILE	conflict	UNP O66529
aB	42	VAL	GLU	conflict	UNP O66529
aB	58	VAL	ILE	conflict	UNP O66529
aB	59	SER	THR	conflict	UNP O66529
aB	61	ASP	GLY	conflict	UNP O66529
aB	62	ILE	VAL	conflict	UNP O66529
aB	97	TYR	PHE	conflict	UNP O66529
aB	102	GLY	-	expression tag	UNP O66529
aB	103	THR	-	expression tag	UNP O66529
aB	104	GLU	-	expression tag	UNP O66529
aB	105	HIS	-	expression tag	UNP O66529
aB	106	HIS	-	expression tag	UNP O66529
aB	107	HIS	-	expression tag	UNP O66529
aB	108	HIS	-	expression tag	UNP O66529
aB	109	LEU	-	expression tag	UNP O66529
aB	110	HIS	-	expression tag	UNP O66529
aB	111	GLY	-	expression tag	UNP O66529
aB	112	SER	-	expression tag	UNP O66529
aB	113	SER	-	expression tag	UNP O66529
aC	1	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
aC	2	GLY	-	expression tag	UNP O66529
aC	3	ASN	-	expression tag	UNP O66529
aC	4	ALA	-	expression tag	UNP O66529
aC	5	ARG	-	expression tag	UNP O66529
aC	6	THR	-	expression tag	UNP O66529
aC	7	ARG	-	expression tag	UNP O66529
aC	8	ARG	-	expression tag	UNP O66529
aC	9	ARG	-	expression tag	UNP O66529
aC	10	GLU	-	expression tag	UNP O66529
aC	11	ARG	-	expression tag	UNP O66529
aC	12	ARG	-	expression tag	UNP O66529
aC	13	ALA	-	expression tag	UNP O66529
aC	14	GLU	-	expression tag	UNP O66529
aC	15	LYS	-	expression tag	UNP O66529
aC	16	GLN	-	expression tag	UNP O66529
aC	17	ALA	-	expression tag	UNP O66529
aC	18	GLN	-	expression tag	UNP O66529
aC	19	TRP	-	expression tag	UNP O66529
aC	20	LYS	-	expression tag	UNP O66529
aC	21	ALA	-	expression tag	UNP O66529
aC	22	ALA	-	expression tag	UNP O66529
aC	23	ASN	-	expression tag	UNP O66529
aC	24	ALA	-	expression tag	UNP O66529
aC	25	GLY	-	expression tag	UNP O66529
aC	26	ALA	-	expression tag	UNP O66529
aC	27	GLY	-	expression tag	UNP O66529
aC	28	ALA	-	expression tag	UNP O66529
aC	29	GLY	-	expression tag	UNP O66529
aC	30	ALA	-	expression tag	UNP O66529
aC	31	MET	-	expression tag	UNP O66529
aC	39	ASN	ILE	conflict	UNP O66529
aC	42	VAL	GLU	conflict	UNP O66529
aC	58	VAL	ILE	conflict	UNP O66529
aC	59	SER	THR	conflict	UNP O66529
aC	61	ASP	GLY	conflict	UNP O66529
aC	62	ILE	VAL	conflict	UNP O66529
aC	97	TYR	PHE	conflict	UNP O66529
aC	102	GLY	-	expression tag	UNP O66529
aC	103	THR	-	expression tag	UNP O66529
aC	104	GLU	-	expression tag	UNP O66529
aC	105	HIS	-	expression tag	UNP O66529
aC	106	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
aC	107	HIS	-	expression tag	UNP O66529
aC	108	HIS	-	expression tag	UNP O66529
aC	109	LEU	-	expression tag	UNP O66529
aC	110	HIS	-	expression tag	UNP O66529
aC	111	GLY	-	expression tag	UNP O66529
aC	112	SER	-	expression tag	UNP O66529
aC	113	SER	-	expression tag	UNP O66529
aD	1	MET	-	initiating methionine	UNP O66529
aD	2	GLY	-	expression tag	UNP O66529
aD	3	ASN	-	expression tag	UNP O66529
aD	4	ALA	-	expression tag	UNP O66529
aD	5	ARG	-	expression tag	UNP O66529
aD	6	THR	-	expression tag	UNP O66529
aD	7	ARG	-	expression tag	UNP O66529
aD	8	ARG	-	expression tag	UNP O66529
aD	9	ARG	-	expression tag	UNP O66529
aD	10	GLU	-	expression tag	UNP O66529
aD	11	ARG	-	expression tag	UNP O66529
aD	12	ARG	-	expression tag	UNP O66529
aD	13	ALA	-	expression tag	UNP O66529
aD	14	GLU	-	expression tag	UNP O66529
aD	15	LYS	-	expression tag	UNP O66529
aD	16	GLN	-	expression tag	UNP O66529
aD	17	ALA	-	expression tag	UNP O66529
aD	18	GLN	-	expression tag	UNP O66529
aD	19	TRP	-	expression tag	UNP O66529
aD	20	LYS	-	expression tag	UNP O66529
aD	21	ALA	-	expression tag	UNP O66529
aD	22	ALA	-	expression tag	UNP O66529
aD	23	ASN	-	expression tag	UNP O66529
aD	24	ALA	-	expression tag	UNP O66529
aD	25	GLY	-	expression tag	UNP O66529
aD	26	ALA	-	expression tag	UNP O66529
aD	27	GLY	-	expression tag	UNP O66529
aD	28	ALA	-	expression tag	UNP O66529
aD	29	GLY	-	expression tag	UNP O66529
aD	30	ALA	-	expression tag	UNP O66529
aD	31	MET	-	expression tag	UNP O66529
aD	39	ASN	ILE	conflict	UNP O66529
aD	42	VAL	GLU	conflict	UNP O66529
aD	58	VAL	ILE	conflict	UNP O66529
aD	59	SER	THR	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
aD	61	ASP	GLY	conflict	UNP O66529
aD	62	ILE	VAL	conflict	UNP O66529
aD	97	TYR	PHE	conflict	UNP O66529
aD	102	GLY	-	expression tag	UNP O66529
aD	103	THR	-	expression tag	UNP O66529
aD	104	GLU	-	expression tag	UNP O66529
aD	105	HIS	-	expression tag	UNP O66529
aD	106	HIS	-	expression tag	UNP O66529
aD	107	HIS	-	expression tag	UNP O66529
aD	108	HIS	-	expression tag	UNP O66529
aD	109	LEU	-	expression tag	UNP O66529
aD	110	HIS	-	expression tag	UNP O66529
aD	111	GLY	-	expression tag	UNP O66529
aD	112	SER	-	expression tag	UNP O66529
aD	113	SER	-	expression tag	UNP O66529
bA	1	MET	-	initiating methionine	UNP O66529
bA	2	GLY	-	expression tag	UNP O66529
bA	3	ASN	-	expression tag	UNP O66529
bA	4	ALA	-	expression tag	UNP O66529
bA	5	ARG	-	expression tag	UNP O66529
bA	6	THR	-	expression tag	UNP O66529
bA	7	ARG	-	expression tag	UNP O66529
bA	8	ARG	-	expression tag	UNP O66529
bA	9	ARG	-	expression tag	UNP O66529
bA	10	GLU	-	expression tag	UNP O66529
bA	11	ARG	-	expression tag	UNP O66529
bA	12	ARG	-	expression tag	UNP O66529
bA	13	ALA	-	expression tag	UNP O66529
bA	14	GLU	-	expression tag	UNP O66529
bA	15	LYS	-	expression tag	UNP O66529
bA	16	GLN	-	expression tag	UNP O66529
bA	17	ALA	-	expression tag	UNP O66529
bA	18	GLN	-	expression tag	UNP O66529
bA	19	TRP	-	expression tag	UNP O66529
bA	20	LYS	-	expression tag	UNP O66529
bA	21	ALA	-	expression tag	UNP O66529
bA	22	ALA	-	expression tag	UNP O66529
bA	23	ASN	-	expression tag	UNP O66529
bA	24	ALA	-	expression tag	UNP O66529
bA	25	GLY	-	expression tag	UNP O66529
bA	26	ALA	-	expression tag	UNP O66529
bA	27	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
bA	28	ALA	-	expression tag	UNP O66529
bA	29	GLY	-	expression tag	UNP O66529
bA	30	ALA	-	expression tag	UNP O66529
bA	31	MET	-	expression tag	UNP O66529
bA	39	ASN	ILE	conflict	UNP O66529
bA	42	VAL	GLU	conflict	UNP O66529
bA	58	VAL	ILE	conflict	UNP O66529
bA	59	SER	THR	conflict	UNP O66529
bA	61	ASP	GLY	conflict	UNP O66529
bA	62	ILE	VAL	conflict	UNP O66529
bA	97	TYR	PHE	conflict	UNP O66529
bA	102	GLY	-	expression tag	UNP O66529
bA	103	THR	-	expression tag	UNP O66529
bA	104	GLU	-	expression tag	UNP O66529
bA	105	HIS	-	expression tag	UNP O66529
bA	106	HIS	-	expression tag	UNP O66529
bA	107	HIS	-	expression tag	UNP O66529
bA	108	HIS	-	expression tag	UNP O66529
bA	109	LEU	-	expression tag	UNP O66529
bA	110	HIS	-	expression tag	UNP O66529
bA	111	GLY	-	expression tag	UNP O66529
bA	112	SER	-	expression tag	UNP O66529
bA	113	SER	-	expression tag	UNP O66529
bB	1	MET	-	initiating methionine	UNP O66529
bB	2	GLY	-	expression tag	UNP O66529
bB	3	ASN	-	expression tag	UNP O66529
bB	4	ALA	-	expression tag	UNP O66529
bB	5	ARG	-	expression tag	UNP O66529
bB	6	THR	-	expression tag	UNP O66529
bB	7	ARG	-	expression tag	UNP O66529
bB	8	ARG	-	expression tag	UNP O66529
bB	9	ARG	-	expression tag	UNP O66529
bB	10	GLU	-	expression tag	UNP O66529
bB	11	ARG	-	expression tag	UNP O66529
bB	12	ARG	-	expression tag	UNP O66529
bB	13	ALA	-	expression tag	UNP O66529
bB	14	GLU	-	expression tag	UNP O66529
bB	15	LYS	-	expression tag	UNP O66529
bB	16	GLN	-	expression tag	UNP O66529
bB	17	ALA	-	expression tag	UNP O66529
bB	18	GLN	-	expression tag	UNP O66529
bB	19	TRP	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
bB	20	LYS	-	expression tag	UNP O66529
bB	21	ALA	-	expression tag	UNP O66529
bB	22	ALA	-	expression tag	UNP O66529
bB	23	ASN	-	expression tag	UNP O66529
bB	24	ALA	-	expression tag	UNP O66529
bB	25	GLY	-	expression tag	UNP O66529
bB	26	ALA	-	expression tag	UNP O66529
bB	27	GLY	-	expression tag	UNP O66529
bB	28	ALA	-	expression tag	UNP O66529
bB	29	GLY	-	expression tag	UNP O66529
bB	30	ALA	-	expression tag	UNP O66529
bB	31	MET	-	expression tag	UNP O66529
bB	39	ASN	ILE	conflict	UNP O66529
bB	42	VAL	GLU	conflict	UNP O66529
bB	58	VAL	ILE	conflict	UNP O66529
bB	59	SER	THR	conflict	UNP O66529
bB	61	ASP	GLY	conflict	UNP O66529
bB	62	ILE	VAL	conflict	UNP O66529
bB	97	TYR	PHE	conflict	UNP O66529
bB	102	GLY	-	expression tag	UNP O66529
bB	103	THR	-	expression tag	UNP O66529
bB	104	GLU	-	expression tag	UNP O66529
bB	105	HIS	-	expression tag	UNP O66529
bB	106	HIS	-	expression tag	UNP O66529
bB	107	HIS	-	expression tag	UNP O66529
bB	108	HIS	-	expression tag	UNP O66529
bB	109	LEU	-	expression tag	UNP O66529
bB	110	HIS	-	expression tag	UNP O66529
bB	111	GLY	-	expression tag	UNP O66529
bB	112	SER	-	expression tag	UNP O66529
bB	113	SER	-	expression tag	UNP O66529
bC	1	MET	-	initiating methionine	UNP O66529
bC	2	GLY	-	expression tag	UNP O66529
bC	3	ASN	-	expression tag	UNP O66529
bC	4	ALA	-	expression tag	UNP O66529
bC	5	ARG	-	expression tag	UNP O66529
bC	6	THR	-	expression tag	UNP O66529
bC	7	ARG	-	expression tag	UNP O66529
bC	8	ARG	-	expression tag	UNP O66529
bC	9	ARG	-	expression tag	UNP O66529
bC	10	GLU	-	expression tag	UNP O66529
bC	11	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
bC	12	ARG	-	expression tag	UNP O66529
bC	13	ALA	-	expression tag	UNP O66529
bC	14	GLU	-	expression tag	UNP O66529
bC	15	LYS	-	expression tag	UNP O66529
bC	16	GLN	-	expression tag	UNP O66529
bC	17	ALA	-	expression tag	UNP O66529
bC	18	GLN	-	expression tag	UNP O66529
bC	19	TRP	-	expression tag	UNP O66529
bC	20	LYS	-	expression tag	UNP O66529
bC	21	ALA	-	expression tag	UNP O66529
bC	22	ALA	-	expression tag	UNP O66529
bC	23	ASN	-	expression tag	UNP O66529
bC	24	ALA	-	expression tag	UNP O66529
bC	25	GLY	-	expression tag	UNP O66529
bC	26	ALA	-	expression tag	UNP O66529
bC	27	GLY	-	expression tag	UNP O66529
bC	28	ALA	-	expression tag	UNP O66529
bC	29	GLY	-	expression tag	UNP O66529
bC	30	ALA	-	expression tag	UNP O66529
bC	31	MET	-	expression tag	UNP O66529
bC	39	ASN	ILE	conflict	UNP O66529
bC	42	VAL	GLU	conflict	UNP O66529
bC	58	VAL	ILE	conflict	UNP O66529
bC	59	SER	THR	conflict	UNP O66529
bC	61	ASP	GLY	conflict	UNP O66529
bC	62	ILE	VAL	conflict	UNP O66529
bC	97	TYR	PHE	conflict	UNP O66529
bC	102	GLY	-	expression tag	UNP O66529
bC	103	THR	-	expression tag	UNP O66529
bC	104	GLU	-	expression tag	UNP O66529
bC	105	HIS	-	expression tag	UNP O66529
bC	106	HIS	-	expression tag	UNP O66529
bC	107	HIS	-	expression tag	UNP O66529
bC	108	HIS	-	expression tag	UNP O66529
bC	109	LEU	-	expression tag	UNP O66529
bC	110	HIS	-	expression tag	UNP O66529
bC	111	GLY	-	expression tag	UNP O66529
bC	112	SER	-	expression tag	UNP O66529
bC	113	SER	-	expression tag	UNP O66529
bD	1	MET	-	initiating methionine	UNP O66529
bD	2	GLY	-	expression tag	UNP O66529
bD	3	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
bD	4	ALA	-	expression tag	UNP O66529
bD	5	ARG	-	expression tag	UNP O66529
bD	6	THR	-	expression tag	UNP O66529
bD	7	ARG	-	expression tag	UNP O66529
bD	8	ARG	-	expression tag	UNP O66529
bD	9	ARG	-	expression tag	UNP O66529
bD	10	GLU	-	expression tag	UNP O66529
bD	11	ARG	-	expression tag	UNP O66529
bD	12	ARG	-	expression tag	UNP O66529
bD	13	ALA	-	expression tag	UNP O66529
bD	14	GLU	-	expression tag	UNP O66529
bD	15	LYS	-	expression tag	UNP O66529
bD	16	GLN	-	expression tag	UNP O66529
bD	17	ALA	-	expression tag	UNP O66529
bD	18	GLN	-	expression tag	UNP O66529
bD	19	TRP	-	expression tag	UNP O66529
bD	20	LYS	-	expression tag	UNP O66529
bD	21	ALA	-	expression tag	UNP O66529
bD	22	ALA	-	expression tag	UNP O66529
bD	23	ASN	-	expression tag	UNP O66529
bD	24	ALA	-	expression tag	UNP O66529
bD	25	GLY	-	expression tag	UNP O66529
bD	26	ALA	-	expression tag	UNP O66529
bD	27	GLY	-	expression tag	UNP O66529
bD	28	ALA	-	expression tag	UNP O66529
bD	29	GLY	-	expression tag	UNP O66529
bD	30	ALA	-	expression tag	UNP O66529
bD	31	MET	-	expression tag	UNP O66529
bD	39	ASN	ILE	conflict	UNP O66529
bD	42	VAL	GLU	conflict	UNP O66529
bD	58	VAL	ILE	conflict	UNP O66529
bD	59	SER	THR	conflict	UNP O66529
bD	61	ASP	GLY	conflict	UNP O66529
bD	62	ILE	VAL	conflict	UNP O66529
bD	97	TYR	PHE	conflict	UNP O66529
bD	102	GLY	-	expression tag	UNP O66529
bD	103	THR	-	expression tag	UNP O66529
bD	104	GLU	-	expression tag	UNP O66529
bD	105	HIS	-	expression tag	UNP O66529
bD	106	HIS	-	expression tag	UNP O66529
bD	107	HIS	-	expression tag	UNP O66529
bD	108	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
bD	109	LEU	-	expression tag	UNP O66529
bD	110	HIS	-	expression tag	UNP O66529
bD	111	GLY	-	expression tag	UNP O66529
bD	112	SER	-	expression tag	UNP O66529
bD	113	SER	-	expression tag	UNP O66529
cA	1	MET	-	initiating methionine	UNP O66529
cA	2	GLY	-	expression tag	UNP O66529
cA	3	ASN	-	expression tag	UNP O66529
cA	4	ALA	-	expression tag	UNP O66529
cA	5	ARG	-	expression tag	UNP O66529
cA	6	THR	-	expression tag	UNP O66529
cA	7	ARG	-	expression tag	UNP O66529
cA	8	ARG	-	expression tag	UNP O66529
cA	9	ARG	-	expression tag	UNP O66529
cA	10	GLU	-	expression tag	UNP O66529
cA	11	ARG	-	expression tag	UNP O66529
cA	12	ARG	-	expression tag	UNP O66529
cA	13	ALA	-	expression tag	UNP O66529
cA	14	GLU	-	expression tag	UNP O66529
cA	15	LYS	-	expression tag	UNP O66529
cA	16	GLN	-	expression tag	UNP O66529
cA	17	ALA	-	expression tag	UNP O66529
cA	18	GLN	-	expression tag	UNP O66529
cA	19	TRP	-	expression tag	UNP O66529
cA	20	LYS	-	expression tag	UNP O66529
cA	21	ALA	-	expression tag	UNP O66529
cA	22	ALA	-	expression tag	UNP O66529
cA	23	ASN	-	expression tag	UNP O66529
cA	24	ALA	-	expression tag	UNP O66529
cA	25	GLY	-	expression tag	UNP O66529
cA	26	ALA	-	expression tag	UNP O66529
cA	27	GLY	-	expression tag	UNP O66529
cA	28	ALA	-	expression tag	UNP O66529
cA	29	GLY	-	expression tag	UNP O66529
cA	30	ALA	-	expression tag	UNP O66529
cA	31	MET	-	expression tag	UNP O66529
cA	39	ASN	ILE	conflict	UNP O66529
cA	42	VAL	GLU	conflict	UNP O66529
cA	58	VAL	ILE	conflict	UNP O66529
cA	59	SER	THR	conflict	UNP O66529
cA	61	ASP	GLY	conflict	UNP O66529
cA	62	ILE	VAL	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
cA	97	TYR	PHE	conflict	UNP O66529
cA	102	GLY	-	expression tag	UNP O66529
cA	103	THR	-	expression tag	UNP O66529
cA	104	GLU	-	expression tag	UNP O66529
cA	105	HIS	-	expression tag	UNP O66529
cA	106	HIS	-	expression tag	UNP O66529
cA	107	HIS	-	expression tag	UNP O66529
cA	108	HIS	-	expression tag	UNP O66529
cA	109	LEU	-	expression tag	UNP O66529
cA	110	HIS	-	expression tag	UNP O66529
cA	111	GLY	-	expression tag	UNP O66529
cA	112	SER	-	expression tag	UNP O66529
cA	113	SER	-	expression tag	UNP O66529
cB	1	MET	-	initiating methionine	UNP O66529
cB	2	GLY	-	expression tag	UNP O66529
cB	3	ASN	-	expression tag	UNP O66529
cB	4	ALA	-	expression tag	UNP O66529
cB	5	ARG	-	expression tag	UNP O66529
cB	6	THR	-	expression tag	UNP O66529
cB	7	ARG	-	expression tag	UNP O66529
cB	8	ARG	-	expression tag	UNP O66529
cB	9	ARG	-	expression tag	UNP O66529
cB	10	GLU	-	expression tag	UNP O66529
cB	11	ARG	-	expression tag	UNP O66529
cB	12	ARG	-	expression tag	UNP O66529
cB	13	ALA	-	expression tag	UNP O66529
cB	14	GLU	-	expression tag	UNP O66529
cB	15	LYS	-	expression tag	UNP O66529
cB	16	GLN	-	expression tag	UNP O66529
cB	17	ALA	-	expression tag	UNP O66529
cB	18	GLN	-	expression tag	UNP O66529
cB	19	TRP	-	expression tag	UNP O66529
cB	20	LYS	-	expression tag	UNP O66529
cB	21	ALA	-	expression tag	UNP O66529
cB	22	ALA	-	expression tag	UNP O66529
cB	23	ASN	-	expression tag	UNP O66529
cB	24	ALA	-	expression tag	UNP O66529
cB	25	GLY	-	expression tag	UNP O66529
cB	26	ALA	-	expression tag	UNP O66529
cB	27	GLY	-	expression tag	UNP O66529
cB	28	ALA	-	expression tag	UNP O66529
cB	29	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
cB	30	ALA	-	expression tag	UNP O66529
cB	31	MET	-	expression tag	UNP O66529
cB	39	ASN	ILE	conflict	UNP O66529
cB	42	VAL	GLU	conflict	UNP O66529
cB	58	VAL	ILE	conflict	UNP O66529
cB	59	SER	THR	conflict	UNP O66529
cB	61	ASP	GLY	conflict	UNP O66529
cB	62	ILE	VAL	conflict	UNP O66529
cB	97	TYR	PHE	conflict	UNP O66529
cB	102	GLY	-	expression tag	UNP O66529
cB	103	THR	-	expression tag	UNP O66529
cB	104	GLU	-	expression tag	UNP O66529
cB	105	HIS	-	expression tag	UNP O66529
cB	106	HIS	-	expression tag	UNP O66529
cB	107	HIS	-	expression tag	UNP O66529
cB	108	HIS	-	expression tag	UNP O66529
cB	109	LEU	-	expression tag	UNP O66529
cB	110	HIS	-	expression tag	UNP O66529
cB	111	GLY	-	expression tag	UNP O66529
cB	112	SER	-	expression tag	UNP O66529
cB	113	SER	-	expression tag	UNP O66529
cC	1	MET	-	initiating methionine	UNP O66529
cC	2	GLY	-	expression tag	UNP O66529
cC	3	ASN	-	expression tag	UNP O66529
cC	4	ALA	-	expression tag	UNP O66529
cC	5	ARG	-	expression tag	UNP O66529
cC	6	THR	-	expression tag	UNP O66529
cC	7	ARG	-	expression tag	UNP O66529
cC	8	ARG	-	expression tag	UNP O66529
cC	9	ARG	-	expression tag	UNP O66529
cC	10	GLU	-	expression tag	UNP O66529
cC	11	ARG	-	expression tag	UNP O66529
cC	12	ARG	-	expression tag	UNP O66529
cC	13	ALA	-	expression tag	UNP O66529
cC	14	GLU	-	expression tag	UNP O66529
cC	15	LYS	-	expression tag	UNP O66529
cC	16	GLN	-	expression tag	UNP O66529
cC	17	ALA	-	expression tag	UNP O66529
cC	18	GLN	-	expression tag	UNP O66529
cC	19	TRP	-	expression tag	UNP O66529
cC	20	LYS	-	expression tag	UNP O66529
cC	21	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
cC	22	ALA	-	expression tag	UNP O66529
cC	23	ASN	-	expression tag	UNP O66529
cC	24	ALA	-	expression tag	UNP O66529
cC	25	GLY	-	expression tag	UNP O66529
cC	26	ALA	-	expression tag	UNP O66529
cC	27	GLY	-	expression tag	UNP O66529
cC	28	ALA	-	expression tag	UNP O66529
cC	29	GLY	-	expression tag	UNP O66529
cC	30	ALA	-	expression tag	UNP O66529
cC	31	MET	-	expression tag	UNP O66529
cC	39	ASN	ILE	conflict	UNP O66529
cC	42	VAL	GLU	conflict	UNP O66529
cC	58	VAL	ILE	conflict	UNP O66529
cC	59	SER	THR	conflict	UNP O66529
cC	61	ASP	GLY	conflict	UNP O66529
cC	62	ILE	VAL	conflict	UNP O66529
cC	97	TYR	PHE	conflict	UNP O66529
cC	102	GLY	-	expression tag	UNP O66529
cC	103	THR	-	expression tag	UNP O66529
cC	104	GLU	-	expression tag	UNP O66529
cC	105	HIS	-	expression tag	UNP O66529
cC	106	HIS	-	expression tag	UNP O66529
cC	107	HIS	-	expression tag	UNP O66529
cC	108	HIS	-	expression tag	UNP O66529
cC	109	LEU	-	expression tag	UNP O66529
cC	110	HIS	-	expression tag	UNP O66529
cC	111	GLY	-	expression tag	UNP O66529
cC	112	SER	-	expression tag	UNP O66529
cC	113	SER	-	expression tag	UNP O66529
cD	1	MET	-	initiating methionine	UNP O66529
cD	2	GLY	-	expression tag	UNP O66529
cD	3	ASN	-	expression tag	UNP O66529
cD	4	ALA	-	expression tag	UNP O66529
cD	5	ARG	-	expression tag	UNP O66529
cD	6	THR	-	expression tag	UNP O66529
cD	7	ARG	-	expression tag	UNP O66529
cD	8	ARG	-	expression tag	UNP O66529
cD	9	ARG	-	expression tag	UNP O66529
cD	10	GLU	-	expression tag	UNP O66529
cD	11	ARG	-	expression tag	UNP O66529
cD	12	ARG	-	expression tag	UNP O66529
cD	13	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
cD	14	GLU	-	expression tag	UNP O66529
cD	15	LYS	-	expression tag	UNP O66529
cD	16	GLN	-	expression tag	UNP O66529
cD	17	ALA	-	expression tag	UNP O66529
cD	18	GLN	-	expression tag	UNP O66529
cD	19	TRP	-	expression tag	UNP O66529
cD	20	LYS	-	expression tag	UNP O66529
cD	21	ALA	-	expression tag	UNP O66529
cD	22	ALA	-	expression tag	UNP O66529
cD	23	ASN	-	expression tag	UNP O66529
cD	24	ALA	-	expression tag	UNP O66529
cD	25	GLY	-	expression tag	UNP O66529
cD	26	ALA	-	expression tag	UNP O66529
cD	27	GLY	-	expression tag	UNP O66529
cD	28	ALA	-	expression tag	UNP O66529
cD	29	GLY	-	expression tag	UNP O66529
cD	30	ALA	-	expression tag	UNP O66529
cD	31	MET	-	expression tag	UNP O66529
cD	39	ASN	ILE	conflict	UNP O66529
cD	42	VAL	GLU	conflict	UNP O66529
cD	58	VAL	ILE	conflict	UNP O66529
cD	59	SER	THR	conflict	UNP O66529
cD	61	ASP	GLY	conflict	UNP O66529
cD	62	ILE	VAL	conflict	UNP O66529
cD	97	TYR	PHE	conflict	UNP O66529
cD	102	GLY	-	expression tag	UNP O66529
cD	103	THR	-	expression tag	UNP O66529
cD	104	GLU	-	expression tag	UNP O66529
cD	105	HIS	-	expression tag	UNP O66529
cD	106	HIS	-	expression tag	UNP O66529
cD	107	HIS	-	expression tag	UNP O66529
cD	108	HIS	-	expression tag	UNP O66529
cD	109	LEU	-	expression tag	UNP O66529
cD	110	HIS	-	expression tag	UNP O66529
cD	111	GLY	-	expression tag	UNP O66529
cD	112	SER	-	expression tag	UNP O66529
cD	113	SER	-	expression tag	UNP O66529
dA	1	MET	-	initiating methionine	UNP O66529
dA	2	GLY	-	expression tag	UNP O66529
dA	3	ASN	-	expression tag	UNP O66529
dA	4	ALA	-	expression tag	UNP O66529
dA	5	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
dA	6	THR	-	expression tag	UNP O66529
dA	7	ARG	-	expression tag	UNP O66529
dA	8	ARG	-	expression tag	UNP O66529
dA	9	ARG	-	expression tag	UNP O66529
dA	10	GLU	-	expression tag	UNP O66529
dA	11	ARG	-	expression tag	UNP O66529
dA	12	ARG	-	expression tag	UNP O66529
dA	13	ALA	-	expression tag	UNP O66529
dA	14	GLU	-	expression tag	UNP O66529
dA	15	LYS	-	expression tag	UNP O66529
dA	16	GLN	-	expression tag	UNP O66529
dA	17	ALA	-	expression tag	UNP O66529
dA	18	GLN	-	expression tag	UNP O66529
dA	19	TRP	-	expression tag	UNP O66529
dA	20	LYS	-	expression tag	UNP O66529
dA	21	ALA	-	expression tag	UNP O66529
dA	22	ALA	-	expression tag	UNP O66529
dA	23	ASN	-	expression tag	UNP O66529
dA	24	ALA	-	expression tag	UNP O66529
dA	25	GLY	-	expression tag	UNP O66529
dA	26	ALA	-	expression tag	UNP O66529
dA	27	GLY	-	expression tag	UNP O66529
dA	28	ALA	-	expression tag	UNP O66529
dA	29	GLY	-	expression tag	UNP O66529
dA	30	ALA	-	expression tag	UNP O66529
dA	31	MET	-	expression tag	UNP O66529
dA	39	ASN	ILE	conflict	UNP O66529
dA	42	VAL	GLU	conflict	UNP O66529
dA	58	VAL	ILE	conflict	UNP O66529
dA	59	SER	THR	conflict	UNP O66529
dA	61	ASP	GLY	conflict	UNP O66529
dA	62	ILE	VAL	conflict	UNP O66529
dA	97	TYR	PHE	conflict	UNP O66529
dA	102	GLY	-	expression tag	UNP O66529
dA	103	THR	-	expression tag	UNP O66529
dA	104	GLU	-	expression tag	UNP O66529
dA	105	HIS	-	expression tag	UNP O66529
dA	106	HIS	-	expression tag	UNP O66529
dA	107	HIS	-	expression tag	UNP O66529
dA	108	HIS	-	expression tag	UNP O66529
dA	109	LEU	-	expression tag	UNP O66529
dA	110	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
dA	111	GLY	-	expression tag	UNP O66529
dA	112	SER	-	expression tag	UNP O66529
dA	113	SER	-	expression tag	UNP O66529
dB	1	MET	-	initiating methionine	UNP O66529
dB	2	GLY	-	expression tag	UNP O66529
dB	3	ASN	-	expression tag	UNP O66529
dB	4	ALA	-	expression tag	UNP O66529
dB	5	ARG	-	expression tag	UNP O66529
dB	6	THR	-	expression tag	UNP O66529
dB	7	ARG	-	expression tag	UNP O66529
dB	8	ARG	-	expression tag	UNP O66529
dB	9	ARG	-	expression tag	UNP O66529
dB	10	GLU	-	expression tag	UNP O66529
dB	11	ARG	-	expression tag	UNP O66529
dB	12	ARG	-	expression tag	UNP O66529
dB	13	ALA	-	expression tag	UNP O66529
dB	14	GLU	-	expression tag	UNP O66529
dB	15	LYS	-	expression tag	UNP O66529
dB	16	GLN	-	expression tag	UNP O66529
dB	17	ALA	-	expression tag	UNP O66529
dB	18	GLN	-	expression tag	UNP O66529
dB	19	TRP	-	expression tag	UNP O66529
dB	20	LYS	-	expression tag	UNP O66529
dB	21	ALA	-	expression tag	UNP O66529
dB	22	ALA	-	expression tag	UNP O66529
dB	23	ASN	-	expression tag	UNP O66529
dB	24	ALA	-	expression tag	UNP O66529
dB	25	GLY	-	expression tag	UNP O66529
dB	26	ALA	-	expression tag	UNP O66529
dB	27	GLY	-	expression tag	UNP O66529
dB	28	ALA	-	expression tag	UNP O66529
dB	29	GLY	-	expression tag	UNP O66529
dB	30	ALA	-	expression tag	UNP O66529
dB	31	MET	-	expression tag	UNP O66529
dB	39	ASN	ILE	conflict	UNP O66529
dB	42	VAL	GLU	conflict	UNP O66529
dB	58	VAL	ILE	conflict	UNP O66529
dB	59	SER	THR	conflict	UNP O66529
dB	61	ASP	GLY	conflict	UNP O66529
dB	62	ILE	VAL	conflict	UNP O66529
dB	97	TYR	PHE	conflict	UNP O66529
dB	102	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
dB	103	THR	-	expression tag	UNP O66529
dB	104	GLU	-	expression tag	UNP O66529
dB	105	HIS	-	expression tag	UNP O66529
dB	106	HIS	-	expression tag	UNP O66529
dB	107	HIS	-	expression tag	UNP O66529
dB	108	HIS	-	expression tag	UNP O66529
dB	109	LEU	-	expression tag	UNP O66529
dB	110	HIS	-	expression tag	UNP O66529
dB	111	GLY	-	expression tag	UNP O66529
dB	112	SER	-	expression tag	UNP O66529
dB	113	SER	-	expression tag	UNP O66529
dC	1	MET	-	initiating methionine	UNP O66529
dC	2	GLY	-	expression tag	UNP O66529
dC	3	ASN	-	expression tag	UNP O66529
dC	4	ALA	-	expression tag	UNP O66529
dC	5	ARG	-	expression tag	UNP O66529
dC	6	THR	-	expression tag	UNP O66529
dC	7	ARG	-	expression tag	UNP O66529
dC	8	ARG	-	expression tag	UNP O66529
dC	9	ARG	-	expression tag	UNP O66529
dC	10	GLU	-	expression tag	UNP O66529
dC	11	ARG	-	expression tag	UNP O66529
dC	12	ARG	-	expression tag	UNP O66529
dC	13	ALA	-	expression tag	UNP O66529
dC	14	GLU	-	expression tag	UNP O66529
dC	15	LYS	-	expression tag	UNP O66529
dC	16	GLN	-	expression tag	UNP O66529
dC	17	ALA	-	expression tag	UNP O66529
dC	18	GLN	-	expression tag	UNP O66529
dC	19	TRP	-	expression tag	UNP O66529
dC	20	LYS	-	expression tag	UNP O66529
dC	21	ALA	-	expression tag	UNP O66529
dC	22	ALA	-	expression tag	UNP O66529
dC	23	ASN	-	expression tag	UNP O66529
dC	24	ALA	-	expression tag	UNP O66529
dC	25	GLY	-	expression tag	UNP O66529
dC	26	ALA	-	expression tag	UNP O66529
dC	27	GLY	-	expression tag	UNP O66529
dC	28	ALA	-	expression tag	UNP O66529
dC	29	GLY	-	expression tag	UNP O66529
dC	30	ALA	-	expression tag	UNP O66529
dC	31	MET	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
dC	39	ASN	ILE	conflict	UNP O66529
dC	42	VAL	GLU	conflict	UNP O66529
dC	58	VAL	ILE	conflict	UNP O66529
dC	59	SER	THR	conflict	UNP O66529
dC	61	ASP	GLY	conflict	UNP O66529
dC	62	ILE	VAL	conflict	UNP O66529
dC	97	TYR	PHE	conflict	UNP O66529
dC	102	GLY	-	expression tag	UNP O66529
dC	103	THR	-	expression tag	UNP O66529
dC	104	GLU	-	expression tag	UNP O66529
dC	105	HIS	-	expression tag	UNP O66529
dC	106	HIS	-	expression tag	UNP O66529
dC	107	HIS	-	expression tag	UNP O66529
dC	108	HIS	-	expression tag	UNP O66529
dC	109	LEU	-	expression tag	UNP O66529
dC	110	HIS	-	expression tag	UNP O66529
dC	111	GLY	-	expression tag	UNP O66529
dC	112	SER	-	expression tag	UNP O66529
dC	113	SER	-	expression tag	UNP O66529
dD	1	MET	-	initiating methionine	UNP O66529
dD	2	GLY	-	expression tag	UNP O66529
dD	3	ASN	-	expression tag	UNP O66529
dD	4	ALA	-	expression tag	UNP O66529
dD	5	ARG	-	expression tag	UNP O66529
dD	6	THR	-	expression tag	UNP O66529
dD	7	ARG	-	expression tag	UNP O66529
dD	8	ARG	-	expression tag	UNP O66529
dD	9	ARG	-	expression tag	UNP O66529
dD	10	GLU	-	expression tag	UNP O66529
dD	11	ARG	-	expression tag	UNP O66529
dD	12	ARG	-	expression tag	UNP O66529
dD	13	ALA	-	expression tag	UNP O66529
dD	14	GLU	-	expression tag	UNP O66529
dD	15	LYS	-	expression tag	UNP O66529
dD	16	GLN	-	expression tag	UNP O66529
dD	17	ALA	-	expression tag	UNP O66529
dD	18	GLN	-	expression tag	UNP O66529
dD	19	TRP	-	expression tag	UNP O66529
dD	20	LYS	-	expression tag	UNP O66529
dD	21	ALA	-	expression tag	UNP O66529
dD	22	ALA	-	expression tag	UNP O66529
dD	23	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
dD	24	ALA	-	expression tag	UNP O66529
dD	25	GLY	-	expression tag	UNP O66529
dD	26	ALA	-	expression tag	UNP O66529
dD	27	GLY	-	expression tag	UNP O66529
dD	28	ALA	-	expression tag	UNP O66529
dD	29	GLY	-	expression tag	UNP O66529
dD	30	ALA	-	expression tag	UNP O66529
dD	31	MET	-	expression tag	UNP O66529
dD	39	ASN	ILE	conflict	UNP O66529
dD	42	VAL	GLU	conflict	UNP O66529
dD	58	VAL	ILE	conflict	UNP O66529
dD	59	SER	THR	conflict	UNP O66529
dD	61	ASP	GLY	conflict	UNP O66529
dD	62	ILE	VAL	conflict	UNP O66529
dD	97	TYR	PHE	conflict	UNP O66529
dD	102	GLY	-	expression tag	UNP O66529
dD	103	THR	-	expression tag	UNP O66529
dD	104	GLU	-	expression tag	UNP O66529
dD	105	HIS	-	expression tag	UNP O66529
dD	106	HIS	-	expression tag	UNP O66529
dD	107	HIS	-	expression tag	UNP O66529
dD	108	HIS	-	expression tag	UNP O66529
dD	109	LEU	-	expression tag	UNP O66529
dD	110	HIS	-	expression tag	UNP O66529
dD	111	GLY	-	expression tag	UNP O66529
dD	112	SER	-	expression tag	UNP O66529
dD	113	SER	-	expression tag	UNP O66529
eA	1	MET	-	initiating methionine	UNP O66529
eA	2	GLY	-	expression tag	UNP O66529
eA	3	ASN	-	expression tag	UNP O66529
eA	4	ALA	-	expression tag	UNP O66529
eA	5	ARG	-	expression tag	UNP O66529
eA	6	THR	-	expression tag	UNP O66529
eA	7	ARG	-	expression tag	UNP O66529
eA	8	ARG	-	expression tag	UNP O66529
eA	9	ARG	-	expression tag	UNP O66529
eA	10	GLU	-	expression tag	UNP O66529
eA	11	ARG	-	expression tag	UNP O66529
eA	12	ARG	-	expression tag	UNP O66529
eA	13	ALA	-	expression tag	UNP O66529
eA	14	GLU	-	expression tag	UNP O66529
eA	15	LYS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
eA	16	GLN	-	expression tag	UNP O66529
eA	17	ALA	-	expression tag	UNP O66529
eA	18	GLN	-	expression tag	UNP O66529
eA	19	TRP	-	expression tag	UNP O66529
eA	20	LYS	-	expression tag	UNP O66529
eA	21	ALA	-	expression tag	UNP O66529
eA	22	ALA	-	expression tag	UNP O66529
eA	23	ASN	-	expression tag	UNP O66529
eA	24	ALA	-	expression tag	UNP O66529
eA	25	GLY	-	expression tag	UNP O66529
eA	26	ALA	-	expression tag	UNP O66529
eA	27	GLY	-	expression tag	UNP O66529
eA	28	ALA	-	expression tag	UNP O66529
eA	29	GLY	-	expression tag	UNP O66529
eA	30	ALA	-	expression tag	UNP O66529
eA	31	MET	-	expression tag	UNP O66529
eA	39	ASN	ILE	conflict	UNP O66529
eA	42	VAL	GLU	conflict	UNP O66529
eA	58	VAL	ILE	conflict	UNP O66529
eA	59	SER	THR	conflict	UNP O66529
eA	61	ASP	GLY	conflict	UNP O66529
eA	62	ILE	VAL	conflict	UNP O66529
eA	97	TYR	PHE	conflict	UNP O66529
eA	102	GLY	-	expression tag	UNP O66529
eA	103	THR	-	expression tag	UNP O66529
eA	104	GLU	-	expression tag	UNP O66529
eA	105	HIS	-	expression tag	UNP O66529
eA	106	HIS	-	expression tag	UNP O66529
eA	107	HIS	-	expression tag	UNP O66529
eA	108	HIS	-	expression tag	UNP O66529
eA	109	LEU	-	expression tag	UNP O66529
eA	110	HIS	-	expression tag	UNP O66529
eA	111	GLY	-	expression tag	UNP O66529
eA	112	SER	-	expression tag	UNP O66529
eA	113	SER	-	expression tag	UNP O66529
eB	1	MET	-	initiating methionine	UNP O66529
eB	2	GLY	-	expression tag	UNP O66529
eB	3	ASN	-	expression tag	UNP O66529
eB	4	ALA	-	expression tag	UNP O66529
eB	5	ARG	-	expression tag	UNP O66529
eB	6	THR	-	expression tag	UNP O66529
eB	7	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
eB	8	ARG	-	expression tag	UNP O66529
eB	9	ARG	-	expression tag	UNP O66529
eB	10	GLU	-	expression tag	UNP O66529
eB	11	ARG	-	expression tag	UNP O66529
eB	12	ARG	-	expression tag	UNP O66529
eB	13	ALA	-	expression tag	UNP O66529
eB	14	GLU	-	expression tag	UNP O66529
eB	15	LYS	-	expression tag	UNP O66529
eB	16	GLN	-	expression tag	UNP O66529
eB	17	ALA	-	expression tag	UNP O66529
eB	18	GLN	-	expression tag	UNP O66529
eB	19	TRP	-	expression tag	UNP O66529
eB	20	LYS	-	expression tag	UNP O66529
eB	21	ALA	-	expression tag	UNP O66529
eB	22	ALA	-	expression tag	UNP O66529
eB	23	ASN	-	expression tag	UNP O66529
eB	24	ALA	-	expression tag	UNP O66529
eB	25	GLY	-	expression tag	UNP O66529
eB	26	ALA	-	expression tag	UNP O66529
eB	27	GLY	-	expression tag	UNP O66529
eB	28	ALA	-	expression tag	UNP O66529
eB	29	GLY	-	expression tag	UNP O66529
eB	30	ALA	-	expression tag	UNP O66529
eB	31	MET	-	expression tag	UNP O66529
eB	39	ASN	ILE	conflict	UNP O66529
eB	42	VAL	GLU	conflict	UNP O66529
eB	58	VAL	ILE	conflict	UNP O66529
eB	59	SER	THR	conflict	UNP O66529
eB	61	ASP	GLY	conflict	UNP O66529
eB	62	ILE	VAL	conflict	UNP O66529
eB	97	TYR	PHE	conflict	UNP O66529
eB	102	GLY	-	expression tag	UNP O66529
eB	103	THR	-	expression tag	UNP O66529
eB	104	GLU	-	expression tag	UNP O66529
eB	105	HIS	-	expression tag	UNP O66529
eB	106	HIS	-	expression tag	UNP O66529
eB	107	HIS	-	expression tag	UNP O66529
eB	108	HIS	-	expression tag	UNP O66529
eB	109	LEU	-	expression tag	UNP O66529
eB	110	HIS	-	expression tag	UNP O66529
eB	111	GLY	-	expression tag	UNP O66529
eB	112	SER	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
eB	113	SER	-	expression tag	UNP O66529
eC	1	MET	-	initiating methionine	UNP O66529
eC	2	GLY	-	expression tag	UNP O66529
eC	3	ASN	-	expression tag	UNP O66529
eC	4	ALA	-	expression tag	UNP O66529
eC	5	ARG	-	expression tag	UNP O66529
eC	6	THR	-	expression tag	UNP O66529
eC	7	ARG	-	expression tag	UNP O66529
eC	8	ARG	-	expression tag	UNP O66529
eC	9	ARG	-	expression tag	UNP O66529
eC	10	GLU	-	expression tag	UNP O66529
eC	11	ARG	-	expression tag	UNP O66529
eC	12	ARG	-	expression tag	UNP O66529
eC	13	ALA	-	expression tag	UNP O66529
eC	14	GLU	-	expression tag	UNP O66529
eC	15	LYS	-	expression tag	UNP O66529
eC	16	GLN	-	expression tag	UNP O66529
eC	17	ALA	-	expression tag	UNP O66529
eC	18	GLN	-	expression tag	UNP O66529
eC	19	TRP	-	expression tag	UNP O66529
eC	20	LYS	-	expression tag	UNP O66529
eC	21	ALA	-	expression tag	UNP O66529
eC	22	ALA	-	expression tag	UNP O66529
eC	23	ASN	-	expression tag	UNP O66529
eC	24	ALA	-	expression tag	UNP O66529
eC	25	GLY	-	expression tag	UNP O66529
eC	26	ALA	-	expression tag	UNP O66529
eC	27	GLY	-	expression tag	UNP O66529
eC	28	ALA	-	expression tag	UNP O66529
eC	29	GLY	-	expression tag	UNP O66529
eC	30	ALA	-	expression tag	UNP O66529
eC	31	MET	-	expression tag	UNP O66529
eC	39	ASN	ILE	conflict	UNP O66529
eC	42	VAL	GLU	conflict	UNP O66529
eC	58	VAL	ILE	conflict	UNP O66529
eC	59	SER	THR	conflict	UNP O66529
eC	61	ASP	GLY	conflict	UNP O66529
eC	62	ILE	VAL	conflict	UNP O66529
eC	97	TYR	PHE	conflict	UNP O66529
eC	102	GLY	-	expression tag	UNP O66529
eC	103	THR	-	expression tag	UNP O66529
eC	104	GLU	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
eC	105	HIS	-	expression tag	UNP O66529
eC	106	HIS	-	expression tag	UNP O66529
eC	107	HIS	-	expression tag	UNP O66529
eC	108	HIS	-	expression tag	UNP O66529
eC	109	LEU	-	expression tag	UNP O66529
eC	110	HIS	-	expression tag	UNP O66529
eC	111	GLY	-	expression tag	UNP O66529
eC	112	SER	-	expression tag	UNP O66529
eC	113	SER	-	expression tag	UNP O66529
eD	1	MET	-	initiating methionine	UNP O66529
eD	2	GLY	-	expression tag	UNP O66529
eD	3	ASN	-	expression tag	UNP O66529
eD	4	ALA	-	expression tag	UNP O66529
eD	5	ARG	-	expression tag	UNP O66529
eD	6	THR	-	expression tag	UNP O66529
eD	7	ARG	-	expression tag	UNP O66529
eD	8	ARG	-	expression tag	UNP O66529
eD	9	ARG	-	expression tag	UNP O66529
eD	10	GLU	-	expression tag	UNP O66529
eD	11	ARG	-	expression tag	UNP O66529
eD	12	ARG	-	expression tag	UNP O66529
eD	13	ALA	-	expression tag	UNP O66529
eD	14	GLU	-	expression tag	UNP O66529
eD	15	LYS	-	expression tag	UNP O66529
eD	16	GLN	-	expression tag	UNP O66529
eD	17	ALA	-	expression tag	UNP O66529
eD	18	GLN	-	expression tag	UNP O66529
eD	19	TRP	-	expression tag	UNP O66529
eD	20	LYS	-	expression tag	UNP O66529
eD	21	ALA	-	expression tag	UNP O66529
eD	22	ALA	-	expression tag	UNP O66529
eD	23	ASN	-	expression tag	UNP O66529
eD	24	ALA	-	expression tag	UNP O66529
eD	25	GLY	-	expression tag	UNP O66529
eD	26	ALA	-	expression tag	UNP O66529
eD	27	GLY	-	expression tag	UNP O66529
eD	28	ALA	-	expression tag	UNP O66529
eD	29	GLY	-	expression tag	UNP O66529
eD	30	ALA	-	expression tag	UNP O66529
eD	31	MET	-	expression tag	UNP O66529
eD	39	ASN	ILE	conflict	UNP O66529
eD	42	VAL	GLU	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
eD	58	VAL	ILE	conflict	UNP O66529
eD	59	SER	THR	conflict	UNP O66529
eD	61	ASP	GLY	conflict	UNP O66529
eD	62	ILE	VAL	conflict	UNP O66529
eD	97	TYR	PHE	conflict	UNP O66529
eD	102	GLY	-	expression tag	UNP O66529
eD	103	THR	-	expression tag	UNP O66529
eD	104	GLU	-	expression tag	UNP O66529
eD	105	HIS	-	expression tag	UNP O66529
eD	106	HIS	-	expression tag	UNP O66529
eD	107	HIS	-	expression tag	UNP O66529
eD	108	HIS	-	expression tag	UNP O66529
eD	109	LEU	-	expression tag	UNP O66529
eD	110	HIS	-	expression tag	UNP O66529
eD	111	GLY	-	expression tag	UNP O66529
eD	112	SER	-	expression tag	UNP O66529
eD	113	SER	-	expression tag	UNP O66529
fA	1	MET	-	initiating methionine	UNP O66529
fA	2	GLY	-	expression tag	UNP O66529
fA	3	ASN	-	expression tag	UNP O66529
fA	4	ALA	-	expression tag	UNP O66529
fA	5	ARG	-	expression tag	UNP O66529
fA	6	THR	-	expression tag	UNP O66529
fA	7	ARG	-	expression tag	UNP O66529
fA	8	ARG	-	expression tag	UNP O66529
fA	9	ARG	-	expression tag	UNP O66529
fA	10	GLU	-	expression tag	UNP O66529
fA	11	ARG	-	expression tag	UNP O66529
fA	12	ARG	-	expression tag	UNP O66529
fA	13	ALA	-	expression tag	UNP O66529
fA	14	GLU	-	expression tag	UNP O66529
fA	15	LYS	-	expression tag	UNP O66529
fA	16	GLN	-	expression tag	UNP O66529
fA	17	ALA	-	expression tag	UNP O66529
fA	18	GLN	-	expression tag	UNP O66529
fA	19	TRP	-	expression tag	UNP O66529
fA	20	LYS	-	expression tag	UNP O66529
fA	21	ALA	-	expression tag	UNP O66529
fA	22	ALA	-	expression tag	UNP O66529
fA	23	ASN	-	expression tag	UNP O66529
fA	24	ALA	-	expression tag	UNP O66529
fA	25	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
fA	26	ALA	-	expression tag	UNP O66529
fA	27	GLY	-	expression tag	UNP O66529
fA	28	ALA	-	expression tag	UNP O66529
fA	29	GLY	-	expression tag	UNP O66529
fA	30	ALA	-	expression tag	UNP O66529
fA	31	MET	-	expression tag	UNP O66529
fA	39	ASN	ILE	conflict	UNP O66529
fA	42	VAL	GLU	conflict	UNP O66529
fA	58	VAL	ILE	conflict	UNP O66529
fA	59	SER	THR	conflict	UNP O66529
fA	61	ASP	GLY	conflict	UNP O66529
fA	62	ILE	VAL	conflict	UNP O66529
fA	97	TYR	PHE	conflict	UNP O66529
fA	102	GLY	-	expression tag	UNP O66529
fA	103	THR	-	expression tag	UNP O66529
fA	104	GLU	-	expression tag	UNP O66529
fA	105	HIS	-	expression tag	UNP O66529
fA	106	HIS	-	expression tag	UNP O66529
fA	107	HIS	-	expression tag	UNP O66529
fA	108	HIS	-	expression tag	UNP O66529
fA	109	LEU	-	expression tag	UNP O66529
fA	110	HIS	-	expression tag	UNP O66529
fA	111	GLY	-	expression tag	UNP O66529
fA	112	SER	-	expression tag	UNP O66529
fA	113	SER	-	expression tag	UNP O66529
fB	1	MET	-	initiating methionine	UNP O66529
fB	2	GLY	-	expression tag	UNP O66529
fB	3	ASN	-	expression tag	UNP O66529
fB	4	ALA	-	expression tag	UNP O66529
fB	5	ARG	-	expression tag	UNP O66529
fB	6	THR	-	expression tag	UNP O66529
fB	7	ARG	-	expression tag	UNP O66529
fB	8	ARG	-	expression tag	UNP O66529
fB	9	ARG	-	expression tag	UNP O66529
fB	10	GLU	-	expression tag	UNP O66529
fB	11	ARG	-	expression tag	UNP O66529
fB	12	ARG	-	expression tag	UNP O66529
fB	13	ALA	-	expression tag	UNP O66529
fB	14	GLU	-	expression tag	UNP O66529
fB	15	LYS	-	expression tag	UNP O66529
fB	16	GLN	-	expression tag	UNP O66529
fB	17	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
fB	18	GLN	-	expression tag	UNP O66529
fB	19	TRP	-	expression tag	UNP O66529
fB	20	LYS	-	expression tag	UNP O66529
fB	21	ALA	-	expression tag	UNP O66529
fB	22	ALA	-	expression tag	UNP O66529
fB	23	ASN	-	expression tag	UNP O66529
fB	24	ALA	-	expression tag	UNP O66529
fB	25	GLY	-	expression tag	UNP O66529
fB	26	ALA	-	expression tag	UNP O66529
fB	27	GLY	-	expression tag	UNP O66529
fB	28	ALA	-	expression tag	UNP O66529
fB	29	GLY	-	expression tag	UNP O66529
fB	30	ALA	-	expression tag	UNP O66529
fB	31	MET	-	expression tag	UNP O66529
fB	39	ASN	ILE	conflict	UNP O66529
fB	42	VAL	GLU	conflict	UNP O66529
fB	58	VAL	ILE	conflict	UNP O66529
fB	59	SER	THR	conflict	UNP O66529
fB	61	ASP	GLY	conflict	UNP O66529
fB	62	ILE	VAL	conflict	UNP O66529
fB	97	TYR	PHE	conflict	UNP O66529
fB	102	GLY	-	expression tag	UNP O66529
fB	103	THR	-	expression tag	UNP O66529
fB	104	GLU	-	expression tag	UNP O66529
fB	105	HIS	-	expression tag	UNP O66529
fB	106	HIS	-	expression tag	UNP O66529
fB	107	HIS	-	expression tag	UNP O66529
fB	108	HIS	-	expression tag	UNP O66529
fB	109	LEU	-	expression tag	UNP O66529
fB	110	HIS	-	expression tag	UNP O66529
fB	111	GLY	-	expression tag	UNP O66529
fB	112	SER	-	expression tag	UNP O66529
fB	113	SER	-	expression tag	UNP O66529
fC	1	MET	-	initiating methionine	UNP O66529
fC	2	GLY	-	expression tag	UNP O66529
fC	3	ASN	-	expression tag	UNP O66529
fC	4	ALA	-	expression tag	UNP O66529
fC	5	ARG	-	expression tag	UNP O66529
fC	6	THR	-	expression tag	UNP O66529
fC	7	ARG	-	expression tag	UNP O66529
fC	8	ARG	-	expression tag	UNP O66529
fC	9	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
fC	10	GLU	-	expression tag	UNP O66529
fC	11	ARG	-	expression tag	UNP O66529
fC	12	ARG	-	expression tag	UNP O66529
fC	13	ALA	-	expression tag	UNP O66529
fC	14	GLU	-	expression tag	UNP O66529
fC	15	LYS	-	expression tag	UNP O66529
fC	16	GLN	-	expression tag	UNP O66529
fC	17	ALA	-	expression tag	UNP O66529
fC	18	GLN	-	expression tag	UNP O66529
fC	19	TRP	-	expression tag	UNP O66529
fC	20	LYS	-	expression tag	UNP O66529
fC	21	ALA	-	expression tag	UNP O66529
fC	22	ALA	-	expression tag	UNP O66529
fC	23	ASN	-	expression tag	UNP O66529
fC	24	ALA	-	expression tag	UNP O66529
fC	25	GLY	-	expression tag	UNP O66529
fC	26	ALA	-	expression tag	UNP O66529
fC	27	GLY	-	expression tag	UNP O66529
fC	28	ALA	-	expression tag	UNP O66529
fC	29	GLY	-	expression tag	UNP O66529
fC	30	ALA	-	expression tag	UNP O66529
fC	31	MET	-	expression tag	UNP O66529
fC	39	ASN	ILE	conflict	UNP O66529
fC	42	VAL	GLU	conflict	UNP O66529
fC	58	VAL	ILE	conflict	UNP O66529
fC	59	SER	THR	conflict	UNP O66529
fC	61	ASP	GLY	conflict	UNP O66529
fC	62	ILE	VAL	conflict	UNP O66529
fC	97	TYR	PHE	conflict	UNP O66529
fC	102	GLY	-	expression tag	UNP O66529
fC	103	THR	-	expression tag	UNP O66529
fC	104	GLU	-	expression tag	UNP O66529
fC	105	HIS	-	expression tag	UNP O66529
fC	106	HIS	-	expression tag	UNP O66529
fC	107	HIS	-	expression tag	UNP O66529
fC	108	HIS	-	expression tag	UNP O66529
fC	109	LEU	-	expression tag	UNP O66529
fC	110	HIS	-	expression tag	UNP O66529
fC	111	GLY	-	expression tag	UNP O66529
fC	112	SER	-	expression tag	UNP O66529
fC	113	SER	-	expression tag	UNP O66529
fD	1	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
fD	2	GLY	-	expression tag	UNP O66529
fD	3	ASN	-	expression tag	UNP O66529
fD	4	ALA	-	expression tag	UNP O66529
fD	5	ARG	-	expression tag	UNP O66529
fD	6	THR	-	expression tag	UNP O66529
fD	7	ARG	-	expression tag	UNP O66529
fD	8	ARG	-	expression tag	UNP O66529
fD	9	ARG	-	expression tag	UNP O66529
fD	10	GLU	-	expression tag	UNP O66529
fD	11	ARG	-	expression tag	UNP O66529
fD	12	ARG	-	expression tag	UNP O66529
fD	13	ALA	-	expression tag	UNP O66529
fD	14	GLU	-	expression tag	UNP O66529
fD	15	LYS	-	expression tag	UNP O66529
fD	16	GLN	-	expression tag	UNP O66529
fD	17	ALA	-	expression tag	UNP O66529
fD	18	GLN	-	expression tag	UNP O66529
fD	19	TRP	-	expression tag	UNP O66529
fD	20	LYS	-	expression tag	UNP O66529
fD	21	ALA	-	expression tag	UNP O66529
fD	22	ALA	-	expression tag	UNP O66529
fD	23	ASN	-	expression tag	UNP O66529
fD	24	ALA	-	expression tag	UNP O66529
fD	25	GLY	-	expression tag	UNP O66529
fD	26	ALA	-	expression tag	UNP O66529
fD	27	GLY	-	expression tag	UNP O66529
fD	28	ALA	-	expression tag	UNP O66529
fD	29	GLY	-	expression tag	UNP O66529
fD	30	ALA	-	expression tag	UNP O66529
fD	31	MET	-	expression tag	UNP O66529
fD	39	ASN	ILE	conflict	UNP O66529
fD	42	VAL	GLU	conflict	UNP O66529
fD	58	VAL	ILE	conflict	UNP O66529
fD	59	SER	THR	conflict	UNP O66529
fD	61	ASP	GLY	conflict	UNP O66529
fD	62	ILE	VAL	conflict	UNP O66529
fD	97	TYR	PHE	conflict	UNP O66529
fD	102	GLY	-	expression tag	UNP O66529
fD	103	THR	-	expression tag	UNP O66529
fD	104	GLU	-	expression tag	UNP O66529
fD	105	HIS	-	expression tag	UNP O66529
fD	106	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
fD	107	HIS	-	expression tag	UNP O66529
fD	108	HIS	-	expression tag	UNP O66529
fD	109	LEU	-	expression tag	UNP O66529
fD	110	HIS	-	expression tag	UNP O66529
fD	111	GLY	-	expression tag	UNP O66529
fD	112	SER	-	expression tag	UNP O66529
fD	113	SER	-	expression tag	UNP O66529
gA	1	MET	-	initiating methionine	UNP O66529
gA	2	GLY	-	expression tag	UNP O66529
gA	3	ASN	-	expression tag	UNP O66529
gA	4	ALA	-	expression tag	UNP O66529
gA	5	ARG	-	expression tag	UNP O66529
gA	6	THR	-	expression tag	UNP O66529
gA	7	ARG	-	expression tag	UNP O66529
gA	8	ARG	-	expression tag	UNP O66529
gA	9	ARG	-	expression tag	UNP O66529
gA	10	GLU	-	expression tag	UNP O66529
gA	11	ARG	-	expression tag	UNP O66529
gA	12	ARG	-	expression tag	UNP O66529
gA	13	ALA	-	expression tag	UNP O66529
gA	14	GLU	-	expression tag	UNP O66529
gA	15	LYS	-	expression tag	UNP O66529
gA	16	GLN	-	expression tag	UNP O66529
gA	17	ALA	-	expression tag	UNP O66529
gA	18	GLN	-	expression tag	UNP O66529
gA	19	TRP	-	expression tag	UNP O66529
gA	20	LYS	-	expression tag	UNP O66529
gA	21	ALA	-	expression tag	UNP O66529
gA	22	ALA	-	expression tag	UNP O66529
gA	23	ASN	-	expression tag	UNP O66529
gA	24	ALA	-	expression tag	UNP O66529
gA	25	GLY	-	expression tag	UNP O66529
gA	26	ALA	-	expression tag	UNP O66529
gA	27	GLY	-	expression tag	UNP O66529
gA	28	ALA	-	expression tag	UNP O66529
gA	29	GLY	-	expression tag	UNP O66529
gA	30	ALA	-	expression tag	UNP O66529
gA	31	MET	-	expression tag	UNP O66529
gA	39	ASN	ILE	conflict	UNP O66529
gA	42	VAL	GLU	conflict	UNP O66529
gA	58	VAL	ILE	conflict	UNP O66529
gA	59	SER	THR	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
gA	61	ASP	GLY	conflict	UNP O66529
gA	62	ILE	VAL	conflict	UNP O66529
gA	97	TYR	PHE	conflict	UNP O66529
gA	102	GLY	-	expression tag	UNP O66529
gA	103	THR	-	expression tag	UNP O66529
gA	104	GLU	-	expression tag	UNP O66529
gA	105	HIS	-	expression tag	UNP O66529
gA	106	HIS	-	expression tag	UNP O66529
gA	107	HIS	-	expression tag	UNP O66529
gA	108	HIS	-	expression tag	UNP O66529
gA	109	LEU	-	expression tag	UNP O66529
gA	110	HIS	-	expression tag	UNP O66529
gA	111	GLY	-	expression tag	UNP O66529
gA	112	SER	-	expression tag	UNP O66529
gA	113	SER	-	expression tag	UNP O66529
gB	1	MET	-	initiating methionine	UNP O66529
gB	2	GLY	-	expression tag	UNP O66529
gB	3	ASN	-	expression tag	UNP O66529
gB	4	ALA	-	expression tag	UNP O66529
gB	5	ARG	-	expression tag	UNP O66529
gB	6	THR	-	expression tag	UNP O66529
gB	7	ARG	-	expression tag	UNP O66529
gB	8	ARG	-	expression tag	UNP O66529
gB	9	ARG	-	expression tag	UNP O66529
gB	10	GLU	-	expression tag	UNP O66529
gB	11	ARG	-	expression tag	UNP O66529
gB	12	ARG	-	expression tag	UNP O66529
gB	13	ALA	-	expression tag	UNP O66529
gB	14	GLU	-	expression tag	UNP O66529
gB	15	LYS	-	expression tag	UNP O66529
gB	16	GLN	-	expression tag	UNP O66529
gB	17	ALA	-	expression tag	UNP O66529
gB	18	GLN	-	expression tag	UNP O66529
gB	19	TRP	-	expression tag	UNP O66529
gB	20	LYS	-	expression tag	UNP O66529
gB	21	ALA	-	expression tag	UNP O66529
gB	22	ALA	-	expression tag	UNP O66529
gB	23	ASN	-	expression tag	UNP O66529
gB	24	ALA	-	expression tag	UNP O66529
gB	25	GLY	-	expression tag	UNP O66529
gB	26	ALA	-	expression tag	UNP O66529
gB	27	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
gB	28	ALA	-	expression tag	UNP O66529
gB	29	GLY	-	expression tag	UNP O66529
gB	30	ALA	-	expression tag	UNP O66529
gB	31	MET	-	expression tag	UNP O66529
gB	39	ASN	ILE	conflict	UNP O66529
gB	42	VAL	GLU	conflict	UNP O66529
gB	58	VAL	ILE	conflict	UNP O66529
gB	59	SER	THR	conflict	UNP O66529
gB	61	ASP	GLY	conflict	UNP O66529
gB	62	ILE	VAL	conflict	UNP O66529
gB	97	TYR	PHE	conflict	UNP O66529
gB	102	GLY	-	expression tag	UNP O66529
gB	103	THR	-	expression tag	UNP O66529
gB	104	GLU	-	expression tag	UNP O66529
gB	105	HIS	-	expression tag	UNP O66529
gB	106	HIS	-	expression tag	UNP O66529
gB	107	HIS	-	expression tag	UNP O66529
gB	108	HIS	-	expression tag	UNP O66529
gB	109	LEU	-	expression tag	UNP O66529
gB	110	HIS	-	expression tag	UNP O66529
gB	111	GLY	-	expression tag	UNP O66529
gB	112	SER	-	expression tag	UNP O66529
gB	113	SER	-	expression tag	UNP O66529
gC	1	MET	-	initiating methionine	UNP O66529
gC	2	GLY	-	expression tag	UNP O66529
gC	3	ASN	-	expression tag	UNP O66529
gC	4	ALA	-	expression tag	UNP O66529
gC	5	ARG	-	expression tag	UNP O66529
gC	6	THR	-	expression tag	UNP O66529
gC	7	ARG	-	expression tag	UNP O66529
gC	8	ARG	-	expression tag	UNP O66529
gC	9	ARG	-	expression tag	UNP O66529
gC	10	GLU	-	expression tag	UNP O66529
gC	11	ARG	-	expression tag	UNP O66529
gC	12	ARG	-	expression tag	UNP O66529
gC	13	ALA	-	expression tag	UNP O66529
gC	14	GLU	-	expression tag	UNP O66529
gC	15	LYS	-	expression tag	UNP O66529
gC	16	GLN	-	expression tag	UNP O66529
gC	17	ALA	-	expression tag	UNP O66529
gC	18	GLN	-	expression tag	UNP O66529
gC	19	TRP	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
gC	20	LYS	-	expression tag	UNP O66529
gC	21	ALA	-	expression tag	UNP O66529
gC	22	ALA	-	expression tag	UNP O66529
gC	23	ASN	-	expression tag	UNP O66529
gC	24	ALA	-	expression tag	UNP O66529
gC	25	GLY	-	expression tag	UNP O66529
gC	26	ALA	-	expression tag	UNP O66529
gC	27	GLY	-	expression tag	UNP O66529
gC	28	ALA	-	expression tag	UNP O66529
gC	29	GLY	-	expression tag	UNP O66529
gC	30	ALA	-	expression tag	UNP O66529
gC	31	MET	-	expression tag	UNP O66529
gC	39	ASN	ILE	conflict	UNP O66529
gC	42	VAL	GLU	conflict	UNP O66529
gC	58	VAL	ILE	conflict	UNP O66529
gC	59	SER	THR	conflict	UNP O66529
gC	61	ASP	GLY	conflict	UNP O66529
gC	62	ILE	VAL	conflict	UNP O66529
gC	97	TYR	PHE	conflict	UNP O66529
gC	102	GLY	-	expression tag	UNP O66529
gC	103	THR	-	expression tag	UNP O66529
gC	104	GLU	-	expression tag	UNP O66529
gC	105	HIS	-	expression tag	UNP O66529
gC	106	HIS	-	expression tag	UNP O66529
gC	107	HIS	-	expression tag	UNP O66529
gC	108	HIS	-	expression tag	UNP O66529
gC	109	LEU	-	expression tag	UNP O66529
gC	110	HIS	-	expression tag	UNP O66529
gC	111	GLY	-	expression tag	UNP O66529
gC	112	SER	-	expression tag	UNP O66529
gC	113	SER	-	expression tag	UNP O66529
gD	1	MET	-	initiating methionine	UNP O66529
gD	2	GLY	-	expression tag	UNP O66529
gD	3	ASN	-	expression tag	UNP O66529
gD	4	ALA	-	expression tag	UNP O66529
gD	5	ARG	-	expression tag	UNP O66529
gD	6	THR	-	expression tag	UNP O66529
gD	7	ARG	-	expression tag	UNP O66529
gD	8	ARG	-	expression tag	UNP O66529
gD	9	ARG	-	expression tag	UNP O66529
gD	10	GLU	-	expression tag	UNP O66529
gD	11	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
gD	12	ARG	-	expression tag	UNP O66529
gD	13	ALA	-	expression tag	UNP O66529
gD	14	GLU	-	expression tag	UNP O66529
gD	15	LYS	-	expression tag	UNP O66529
gD	16	GLN	-	expression tag	UNP O66529
gD	17	ALA	-	expression tag	UNP O66529
gD	18	GLN	-	expression tag	UNP O66529
gD	19	TRP	-	expression tag	UNP O66529
gD	20	LYS	-	expression tag	UNP O66529
gD	21	ALA	-	expression tag	UNP O66529
gD	22	ALA	-	expression tag	UNP O66529
gD	23	ASN	-	expression tag	UNP O66529
gD	24	ALA	-	expression tag	UNP O66529
gD	25	GLY	-	expression tag	UNP O66529
gD	26	ALA	-	expression tag	UNP O66529
gD	27	GLY	-	expression tag	UNP O66529
gD	28	ALA	-	expression tag	UNP O66529
gD	29	GLY	-	expression tag	UNP O66529
gD	30	ALA	-	expression tag	UNP O66529
gD	31	MET	-	expression tag	UNP O66529
gD	39	ASN	ILE	conflict	UNP O66529
gD	42	VAL	GLU	conflict	UNP O66529
gD	58	VAL	ILE	conflict	UNP O66529
gD	59	SER	THR	conflict	UNP O66529
gD	61	ASP	GLY	conflict	UNP O66529
gD	62	ILE	VAL	conflict	UNP O66529
gD	97	TYR	PHE	conflict	UNP O66529
gD	102	GLY	-	expression tag	UNP O66529
gD	103	THR	-	expression tag	UNP O66529
gD	104	GLU	-	expression tag	UNP O66529
gD	105	HIS	-	expression tag	UNP O66529
gD	106	HIS	-	expression tag	UNP O66529
gD	107	HIS	-	expression tag	UNP O66529
gD	108	HIS	-	expression tag	UNP O66529
gD	109	LEU	-	expression tag	UNP O66529
gD	110	HIS	-	expression tag	UNP O66529
gD	111	GLY	-	expression tag	UNP O66529
gD	112	SER	-	expression tag	UNP O66529
gD	113	SER	-	expression tag	UNP O66529
hA	1	MET	-	initiating methionine	UNP O66529
hA	2	GLY	-	expression tag	UNP O66529
hA	3	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
hA	4	ALA	-	expression tag	UNP O66529
hA	5	ARG	-	expression tag	UNP O66529
hA	6	THR	-	expression tag	UNP O66529
hA	7	ARG	-	expression tag	UNP O66529
hA	8	ARG	-	expression tag	UNP O66529
hA	9	ARG	-	expression tag	UNP O66529
hA	10	GLU	-	expression tag	UNP O66529
hA	11	ARG	-	expression tag	UNP O66529
hA	12	ARG	-	expression tag	UNP O66529
hA	13	ALA	-	expression tag	UNP O66529
hA	14	GLU	-	expression tag	UNP O66529
hA	15	LYS	-	expression tag	UNP O66529
hA	16	GLN	-	expression tag	UNP O66529
hA	17	ALA	-	expression tag	UNP O66529
hA	18	GLN	-	expression tag	UNP O66529
hA	19	TRP	-	expression tag	UNP O66529
hA	20	LYS	-	expression tag	UNP O66529
hA	21	ALA	-	expression tag	UNP O66529
hA	22	ALA	-	expression tag	UNP O66529
hA	23	ASN	-	expression tag	UNP O66529
hA	24	ALA	-	expression tag	UNP O66529
hA	25	GLY	-	expression tag	UNP O66529
hA	26	ALA	-	expression tag	UNP O66529
hA	27	GLY	-	expression tag	UNP O66529
hA	28	ALA	-	expression tag	UNP O66529
hA	29	GLY	-	expression tag	UNP O66529
hA	30	ALA	-	expression tag	UNP O66529
hA	31	MET	-	expression tag	UNP O66529
hA	39	ASN	ILE	conflict	UNP O66529
hA	42	VAL	GLU	conflict	UNP O66529
hA	58	VAL	ILE	conflict	UNP O66529
hA	59	SER	THR	conflict	UNP O66529
hA	61	ASP	GLY	conflict	UNP O66529
hA	62	ILE	VAL	conflict	UNP O66529
hA	97	TYR	PHE	conflict	UNP O66529
hA	102	GLY	-	expression tag	UNP O66529
hA	103	THR	-	expression tag	UNP O66529
hA	104	GLU	-	expression tag	UNP O66529
hA	105	HIS	-	expression tag	UNP O66529
hA	106	HIS	-	expression tag	UNP O66529
hA	107	HIS	-	expression tag	UNP O66529
hA	108	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
hA	109	LEU	-	expression tag	UNP O66529
hA	110	HIS	-	expression tag	UNP O66529
hA	111	GLY	-	expression tag	UNP O66529
hA	112	SER	-	expression tag	UNP O66529
hA	113	SER	-	expression tag	UNP O66529
hB	1	MET	-	initiating methionine	UNP O66529
hB	2	GLY	-	expression tag	UNP O66529
hB	3	ASN	-	expression tag	UNP O66529
hB	4	ALA	-	expression tag	UNP O66529
hB	5	ARG	-	expression tag	UNP O66529
hB	6	THR	-	expression tag	UNP O66529
hB	7	ARG	-	expression tag	UNP O66529
hB	8	ARG	-	expression tag	UNP O66529
hB	9	ARG	-	expression tag	UNP O66529
hB	10	GLU	-	expression tag	UNP O66529
hB	11	ARG	-	expression tag	UNP O66529
hB	12	ARG	-	expression tag	UNP O66529
hB	13	ALA	-	expression tag	UNP O66529
hB	14	GLU	-	expression tag	UNP O66529
hB	15	LYS	-	expression tag	UNP O66529
hB	16	GLN	-	expression tag	UNP O66529
hB	17	ALA	-	expression tag	UNP O66529
hB	18	GLN	-	expression tag	UNP O66529
hB	19	TRP	-	expression tag	UNP O66529
hB	20	LYS	-	expression tag	UNP O66529
hB	21	ALA	-	expression tag	UNP O66529
hB	22	ALA	-	expression tag	UNP O66529
hB	23	ASN	-	expression tag	UNP O66529
hB	24	ALA	-	expression tag	UNP O66529
hB	25	GLY	-	expression tag	UNP O66529
hB	26	ALA	-	expression tag	UNP O66529
hB	27	GLY	-	expression tag	UNP O66529
hB	28	ALA	-	expression tag	UNP O66529
hB	29	GLY	-	expression tag	UNP O66529
hB	30	ALA	-	expression tag	UNP O66529
hB	31	MET	-	expression tag	UNP O66529
hB	39	ASN	ILE	conflict	UNP O66529
hB	42	VAL	GLU	conflict	UNP O66529
hB	58	VAL	ILE	conflict	UNP O66529
hB	59	SER	THR	conflict	UNP O66529
hB	61	ASP	GLY	conflict	UNP O66529
hB	62	ILE	VAL	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
hB	97	TYR	PHE	conflict	UNP O66529
hB	102	GLY	-	expression tag	UNP O66529
hB	103	THR	-	expression tag	UNP O66529
hB	104	GLU	-	expression tag	UNP O66529
hB	105	HIS	-	expression tag	UNP O66529
hB	106	HIS	-	expression tag	UNP O66529
hB	107	HIS	-	expression tag	UNP O66529
hB	108	HIS	-	expression tag	UNP O66529
hB	109	LEU	-	expression tag	UNP O66529
hB	110	HIS	-	expression tag	UNP O66529
hB	111	GLY	-	expression tag	UNP O66529
hB	112	SER	-	expression tag	UNP O66529
hB	113	SER	-	expression tag	UNP O66529
hC	1	MET	-	initiating methionine	UNP O66529
hC	2	GLY	-	expression tag	UNP O66529
hC	3	ASN	-	expression tag	UNP O66529
hC	4	ALA	-	expression tag	UNP O66529
hC	5	ARG	-	expression tag	UNP O66529
hC	6	THR	-	expression tag	UNP O66529
hC	7	ARG	-	expression tag	UNP O66529
hC	8	ARG	-	expression tag	UNP O66529
hC	9	ARG	-	expression tag	UNP O66529
hC	10	GLU	-	expression tag	UNP O66529
hC	11	ARG	-	expression tag	UNP O66529
hC	12	ARG	-	expression tag	UNP O66529
hC	13	ALA	-	expression tag	UNP O66529
hC	14	GLU	-	expression tag	UNP O66529
hC	15	LYS	-	expression tag	UNP O66529
hC	16	GLN	-	expression tag	UNP O66529
hC	17	ALA	-	expression tag	UNP O66529
hC	18	GLN	-	expression tag	UNP O66529
hC	19	TRP	-	expression tag	UNP O66529
hC	20	LYS	-	expression tag	UNP O66529
hC	21	ALA	-	expression tag	UNP O66529
hC	22	ALA	-	expression tag	UNP O66529
hC	23	ASN	-	expression tag	UNP O66529
hC	24	ALA	-	expression tag	UNP O66529
hC	25	GLY	-	expression tag	UNP O66529
hC	26	ALA	-	expression tag	UNP O66529
hC	27	GLY	-	expression tag	UNP O66529
hC	28	ALA	-	expression tag	UNP O66529
hC	29	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
hC	30	ALA	-	expression tag	UNP O66529
hC	31	MET	-	expression tag	UNP O66529
hC	39	ASN	ILE	conflict	UNP O66529
hC	42	VAL	GLU	conflict	UNP O66529
hC	58	VAL	ILE	conflict	UNP O66529
hC	59	SER	THR	conflict	UNP O66529
hC	61	ASP	GLY	conflict	UNP O66529
hC	62	ILE	VAL	conflict	UNP O66529
hC	97	TYR	PHE	conflict	UNP O66529
hC	102	GLY	-	expression tag	UNP O66529
hC	103	THR	-	expression tag	UNP O66529
hC	104	GLU	-	expression tag	UNP O66529
hC	105	HIS	-	expression tag	UNP O66529
hC	106	HIS	-	expression tag	UNP O66529
hC	107	HIS	-	expression tag	UNP O66529
hC	108	HIS	-	expression tag	UNP O66529
hC	109	LEU	-	expression tag	UNP O66529
hC	110	HIS	-	expression tag	UNP O66529
hC	111	GLY	-	expression tag	UNP O66529
hC	112	SER	-	expression tag	UNP O66529
hC	113	SER	-	expression tag	UNP O66529
hD	1	MET	-	initiating methionine	UNP O66529
hD	2	GLY	-	expression tag	UNP O66529
hD	3	ASN	-	expression tag	UNP O66529
hD	4	ALA	-	expression tag	UNP O66529
hD	5	ARG	-	expression tag	UNP O66529
hD	6	THR	-	expression tag	UNP O66529
hD	7	ARG	-	expression tag	UNP O66529
hD	8	ARG	-	expression tag	UNP O66529
hD	9	ARG	-	expression tag	UNP O66529
hD	10	GLU	-	expression tag	UNP O66529
hD	11	ARG	-	expression tag	UNP O66529
hD	12	ARG	-	expression tag	UNP O66529
hD	13	ALA	-	expression tag	UNP O66529
hD	14	GLU	-	expression tag	UNP O66529
hD	15	LYS	-	expression tag	UNP O66529
hD	16	GLN	-	expression tag	UNP O66529
hD	17	ALA	-	expression tag	UNP O66529
hD	18	GLN	-	expression tag	UNP O66529
hD	19	TRP	-	expression tag	UNP O66529
hD	20	LYS	-	expression tag	UNP O66529
hD	21	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
hD	22	ALA	-	expression tag	UNP O66529
hD	23	ASN	-	expression tag	UNP O66529
hD	24	ALA	-	expression tag	UNP O66529
hD	25	GLY	-	expression tag	UNP O66529
hD	26	ALA	-	expression tag	UNP O66529
hD	27	GLY	-	expression tag	UNP O66529
hD	28	ALA	-	expression tag	UNP O66529
hD	29	GLY	-	expression tag	UNP O66529
hD	30	ALA	-	expression tag	UNP O66529
hD	31	MET	-	expression tag	UNP O66529
hD	39	ASN	ILE	conflict	UNP O66529
hD	42	VAL	GLU	conflict	UNP O66529
hD	58	VAL	ILE	conflict	UNP O66529
hD	59	SER	THR	conflict	UNP O66529
hD	61	ASP	GLY	conflict	UNP O66529
hD	62	ILE	VAL	conflict	UNP O66529
hD	97	TYR	PHE	conflict	UNP O66529
hD	102	GLY	-	expression tag	UNP O66529
hD	103	THR	-	expression tag	UNP O66529
hD	104	GLU	-	expression tag	UNP O66529
hD	105	HIS	-	expression tag	UNP O66529
hD	106	HIS	-	expression tag	UNP O66529
hD	107	HIS	-	expression tag	UNP O66529
hD	108	HIS	-	expression tag	UNP O66529
hD	109	LEU	-	expression tag	UNP O66529
hD	110	HIS	-	expression tag	UNP O66529
hD	111	GLY	-	expression tag	UNP O66529
hD	112	SER	-	expression tag	UNP O66529
hD	113	SER	-	expression tag	UNP O66529
iA	1	MET	-	initiating methionine	UNP O66529
iA	2	GLY	-	expression tag	UNP O66529
iA	3	ASN	-	expression tag	UNP O66529
iA	4	ALA	-	expression tag	UNP O66529
iA	5	ARG	-	expression tag	UNP O66529
iA	6	THR	-	expression tag	UNP O66529
iA	7	ARG	-	expression tag	UNP O66529
iA	8	ARG	-	expression tag	UNP O66529
iA	9	ARG	-	expression tag	UNP O66529
iA	10	GLU	-	expression tag	UNP O66529
iA	11	ARG	-	expression tag	UNP O66529
iA	12	ARG	-	expression tag	UNP O66529
iA	13	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
iA	14	GLU	-	expression tag	UNP O66529
iA	15	LYS	-	expression tag	UNP O66529
iA	16	GLN	-	expression tag	UNP O66529
iA	17	ALA	-	expression tag	UNP O66529
iA	18	GLN	-	expression tag	UNP O66529
iA	19	TRP	-	expression tag	UNP O66529
iA	20	LYS	-	expression tag	UNP O66529
iA	21	ALA	-	expression tag	UNP O66529
iA	22	ALA	-	expression tag	UNP O66529
iA	23	ASN	-	expression tag	UNP O66529
iA	24	ALA	-	expression tag	UNP O66529
iA	25	GLY	-	expression tag	UNP O66529
iA	26	ALA	-	expression tag	UNP O66529
iA	27	GLY	-	expression tag	UNP O66529
iA	28	ALA	-	expression tag	UNP O66529
iA	29	GLY	-	expression tag	UNP O66529
iA	30	ALA	-	expression tag	UNP O66529
iA	31	MET	-	expression tag	UNP O66529
iA	39	ASN	ILE	conflict	UNP O66529
iA	42	VAL	GLU	conflict	UNP O66529
iA	58	VAL	ILE	conflict	UNP O66529
iA	59	SER	THR	conflict	UNP O66529
iA	61	ASP	GLY	conflict	UNP O66529
iA	62	ILE	VAL	conflict	UNP O66529
iA	97	TYR	PHE	conflict	UNP O66529
iA	102	GLY	-	expression tag	UNP O66529
iA	103	THR	-	expression tag	UNP O66529
iA	104	GLU	-	expression tag	UNP O66529
iA	105	HIS	-	expression tag	UNP O66529
iA	106	HIS	-	expression tag	UNP O66529
iA	107	HIS	-	expression tag	UNP O66529
iA	108	HIS	-	expression tag	UNP O66529
iA	109	LEU	-	expression tag	UNP O66529
iA	110	HIS	-	expression tag	UNP O66529
iA	111	GLY	-	expression tag	UNP O66529
iA	112	SER	-	expression tag	UNP O66529
iA	113	SER	-	expression tag	UNP O66529
iB	1	MET	-	initiating methionine	UNP O66529
iB	2	GLY	-	expression tag	UNP O66529
iB	3	ASN	-	expression tag	UNP O66529
iB	4	ALA	-	expression tag	UNP O66529
iB	5	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
iB	6	THR	-	expression tag	UNP O66529
iB	7	ARG	-	expression tag	UNP O66529
iB	8	ARG	-	expression tag	UNP O66529
iB	9	ARG	-	expression tag	UNP O66529
iB	10	GLU	-	expression tag	UNP O66529
iB	11	ARG	-	expression tag	UNP O66529
iB	12	ARG	-	expression tag	UNP O66529
iB	13	ALA	-	expression tag	UNP O66529
iB	14	GLU	-	expression tag	UNP O66529
iB	15	LYS	-	expression tag	UNP O66529
iB	16	GLN	-	expression tag	UNP O66529
iB	17	ALA	-	expression tag	UNP O66529
iB	18	GLN	-	expression tag	UNP O66529
iB	19	TRP	-	expression tag	UNP O66529
iB	20	LYS	-	expression tag	UNP O66529
iB	21	ALA	-	expression tag	UNP O66529
iB	22	ALA	-	expression tag	UNP O66529
iB	23	ASN	-	expression tag	UNP O66529
iB	24	ALA	-	expression tag	UNP O66529
iB	25	GLY	-	expression tag	UNP O66529
iB	26	ALA	-	expression tag	UNP O66529
iB	27	GLY	-	expression tag	UNP O66529
iB	28	ALA	-	expression tag	UNP O66529
iB	29	GLY	-	expression tag	UNP O66529
iB	30	ALA	-	expression tag	UNP O66529
iB	31	MET	-	expression tag	UNP O66529
iB	39	ASN	ILE	conflict	UNP O66529
iB	42	VAL	GLU	conflict	UNP O66529
iB	58	VAL	ILE	conflict	UNP O66529
iB	59	SER	THR	conflict	UNP O66529
iB	61	ASP	GLY	conflict	UNP O66529
iB	62	ILE	VAL	conflict	UNP O66529
iB	97	TYR	PHE	conflict	UNP O66529
iB	102	GLY	-	expression tag	UNP O66529
iB	103	THR	-	expression tag	UNP O66529
iB	104	GLU	-	expression tag	UNP O66529
iB	105	HIS	-	expression tag	UNP O66529
iB	106	HIS	-	expression tag	UNP O66529
iB	107	HIS	-	expression tag	UNP O66529
iB	108	HIS	-	expression tag	UNP O66529
iB	109	LEU	-	expression tag	UNP O66529
iB	110	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
iB	111	GLY	-	expression tag	UNP O66529
iB	112	SER	-	expression tag	UNP O66529
iB	113	SER	-	expression tag	UNP O66529
iC	1	MET	-	initiating methionine	UNP O66529
iC	2	GLY	-	expression tag	UNP O66529
iC	3	ASN	-	expression tag	UNP O66529
iC	4	ALA	-	expression tag	UNP O66529
iC	5	ARG	-	expression tag	UNP O66529
iC	6	THR	-	expression tag	UNP O66529
iC	7	ARG	-	expression tag	UNP O66529
iC	8	ARG	-	expression tag	UNP O66529
iC	9	ARG	-	expression tag	UNP O66529
iC	10	GLU	-	expression tag	UNP O66529
iC	11	ARG	-	expression tag	UNP O66529
iC	12	ARG	-	expression tag	UNP O66529
iC	13	ALA	-	expression tag	UNP O66529
iC	14	GLU	-	expression tag	UNP O66529
iC	15	LYS	-	expression tag	UNP O66529
iC	16	GLN	-	expression tag	UNP O66529
iC	17	ALA	-	expression tag	UNP O66529
iC	18	GLN	-	expression tag	UNP O66529
iC	19	TRP	-	expression tag	UNP O66529
iC	20	LYS	-	expression tag	UNP O66529
iC	21	ALA	-	expression tag	UNP O66529
iC	22	ALA	-	expression tag	UNP O66529
iC	23	ASN	-	expression tag	UNP O66529
iC	24	ALA	-	expression tag	UNP O66529
iC	25	GLY	-	expression tag	UNP O66529
iC	26	ALA	-	expression tag	UNP O66529
iC	27	GLY	-	expression tag	UNP O66529
iC	28	ALA	-	expression tag	UNP O66529
iC	29	GLY	-	expression tag	UNP O66529
iC	30	ALA	-	expression tag	UNP O66529
iC	31	MET	-	expression tag	UNP O66529
iC	39	ASN	ILE	conflict	UNP O66529
iC	42	VAL	GLU	conflict	UNP O66529
iC	58	VAL	ILE	conflict	UNP O66529
iC	59	SER	THR	conflict	UNP O66529
iC	61	ASP	GLY	conflict	UNP O66529
iC	62	ILE	VAL	conflict	UNP O66529
iC	97	TYR	PHE	conflict	UNP O66529
iC	102	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
iC	103	THR	-	expression tag	UNP O66529
iC	104	GLU	-	expression tag	UNP O66529
iC	105	HIS	-	expression tag	UNP O66529
iC	106	HIS	-	expression tag	UNP O66529
iC	107	HIS	-	expression tag	UNP O66529
iC	108	HIS	-	expression tag	UNP O66529
iC	109	LEU	-	expression tag	UNP O66529
iC	110	HIS	-	expression tag	UNP O66529
iC	111	GLY	-	expression tag	UNP O66529
iC	112	SER	-	expression tag	UNP O66529
iC	113	SER	-	expression tag	UNP O66529
iD	1	MET	-	initiating methionine	UNP O66529
iD	2	GLY	-	expression tag	UNP O66529
iD	3	ASN	-	expression tag	UNP O66529
iD	4	ALA	-	expression tag	UNP O66529
iD	5	ARG	-	expression tag	UNP O66529
iD	6	THR	-	expression tag	UNP O66529
iD	7	ARG	-	expression tag	UNP O66529
iD	8	ARG	-	expression tag	UNP O66529
iD	9	ARG	-	expression tag	UNP O66529
iD	10	GLU	-	expression tag	UNP O66529
iD	11	ARG	-	expression tag	UNP O66529
iD	12	ARG	-	expression tag	UNP O66529
iD	13	ALA	-	expression tag	UNP O66529
iD	14	GLU	-	expression tag	UNP O66529
iD	15	LYS	-	expression tag	UNP O66529
iD	16	GLN	-	expression tag	UNP O66529
iD	17	ALA	-	expression tag	UNP O66529
iD	18	GLN	-	expression tag	UNP O66529
iD	19	TRP	-	expression tag	UNP O66529
iD	20	LYS	-	expression tag	UNP O66529
iD	21	ALA	-	expression tag	UNP O66529
iD	22	ALA	-	expression tag	UNP O66529
iD	23	ASN	-	expression tag	UNP O66529
iD	24	ALA	-	expression tag	UNP O66529
iD	25	GLY	-	expression tag	UNP O66529
iD	26	ALA	-	expression tag	UNP O66529
iD	27	GLY	-	expression tag	UNP O66529
iD	28	ALA	-	expression tag	UNP O66529
iD	29	GLY	-	expression tag	UNP O66529
iD	30	ALA	-	expression tag	UNP O66529
iD	31	MET	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
iD	39	ASN	ILE	conflict	UNP O66529
iD	42	VAL	GLU	conflict	UNP O66529
iD	58	VAL	ILE	conflict	UNP O66529
iD	59	SER	THR	conflict	UNP O66529
iD	61	ASP	GLY	conflict	UNP O66529
iD	62	ILE	VAL	conflict	UNP O66529
iD	97	TYR	PHE	conflict	UNP O66529
iD	102	GLY	-	expression tag	UNP O66529
iD	103	THR	-	expression tag	UNP O66529
iD	104	GLU	-	expression tag	UNP O66529
iD	105	HIS	-	expression tag	UNP O66529
iD	106	HIS	-	expression tag	UNP O66529
iD	107	HIS	-	expression tag	UNP O66529
iD	108	HIS	-	expression tag	UNP O66529
iD	109	LEU	-	expression tag	UNP O66529
iD	110	HIS	-	expression tag	UNP O66529
iD	111	GLY	-	expression tag	UNP O66529
iD	112	SER	-	expression tag	UNP O66529
iD	113	SER	-	expression tag	UNP O66529
jA	1	MET	-	initiating methionine	UNP O66529
jA	2	GLY	-	expression tag	UNP O66529
jA	3	ASN	-	expression tag	UNP O66529
jA	4	ALA	-	expression tag	UNP O66529
jA	5	ARG	-	expression tag	UNP O66529
jA	6	THR	-	expression tag	UNP O66529
jA	7	ARG	-	expression tag	UNP O66529
jA	8	ARG	-	expression tag	UNP O66529
jA	9	ARG	-	expression tag	UNP O66529
jA	10	GLU	-	expression tag	UNP O66529
jA	11	ARG	-	expression tag	UNP O66529
jA	12	ARG	-	expression tag	UNP O66529
jA	13	ALA	-	expression tag	UNP O66529
jA	14	GLU	-	expression tag	UNP O66529
jA	15	LYS	-	expression tag	UNP O66529
jA	16	GLN	-	expression tag	UNP O66529
jA	17	ALA	-	expression tag	UNP O66529
jA	18	GLN	-	expression tag	UNP O66529
jA	19	TRP	-	expression tag	UNP O66529
jA	20	LYS	-	expression tag	UNP O66529
jA	21	ALA	-	expression tag	UNP O66529
jA	22	ALA	-	expression tag	UNP O66529
jA	23	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
jA	24	ALA	-	expression tag	UNP O66529
jA	25	GLY	-	expression tag	UNP O66529
jA	26	ALA	-	expression tag	UNP O66529
jA	27	GLY	-	expression tag	UNP O66529
jA	28	ALA	-	expression tag	UNP O66529
jA	29	GLY	-	expression tag	UNP O66529
jA	30	ALA	-	expression tag	UNP O66529
jA	31	MET	-	expression tag	UNP O66529
jA	39	ASN	ILE	conflict	UNP O66529
jA	42	VAL	GLU	conflict	UNP O66529
jA	58	VAL	ILE	conflict	UNP O66529
jA	59	SER	THR	conflict	UNP O66529
jA	61	ASP	GLY	conflict	UNP O66529
jA	62	ILE	VAL	conflict	UNP O66529
jA	97	TYR	PHE	conflict	UNP O66529
jA	102	GLY	-	expression tag	UNP O66529
jA	103	THR	-	expression tag	UNP O66529
jA	104	GLU	-	expression tag	UNP O66529
jA	105	HIS	-	expression tag	UNP O66529
jA	106	HIS	-	expression tag	UNP O66529
jA	107	HIS	-	expression tag	UNP O66529
jA	108	HIS	-	expression tag	UNP O66529
jA	109	LEU	-	expression tag	UNP O66529
jA	110	HIS	-	expression tag	UNP O66529
jA	111	GLY	-	expression tag	UNP O66529
jA	112	SER	-	expression tag	UNP O66529
jA	113	SER	-	expression tag	UNP O66529
jB	1	MET	-	initiating methionine	UNP O66529
jB	2	GLY	-	expression tag	UNP O66529
jB	3	ASN	-	expression tag	UNP O66529
jB	4	ALA	-	expression tag	UNP O66529
jB	5	ARG	-	expression tag	UNP O66529
jB	6	THR	-	expression tag	UNP O66529
jB	7	ARG	-	expression tag	UNP O66529
jB	8	ARG	-	expression tag	UNP O66529
jB	9	ARG	-	expression tag	UNP O66529
jB	10	GLU	-	expression tag	UNP O66529
jB	11	ARG	-	expression tag	UNP O66529
jB	12	ARG	-	expression tag	UNP O66529
jB	13	ALA	-	expression tag	UNP O66529
jB	14	GLU	-	expression tag	UNP O66529
jB	15	LYS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
jB	16	GLN	-	expression tag	UNP O66529
jB	17	ALA	-	expression tag	UNP O66529
jB	18	GLN	-	expression tag	UNP O66529
jB	19	TRP	-	expression tag	UNP O66529
jB	20	LYS	-	expression tag	UNP O66529
jB	21	ALA	-	expression tag	UNP O66529
jB	22	ALA	-	expression tag	UNP O66529
jB	23	ASN	-	expression tag	UNP O66529
jB	24	ALA	-	expression tag	UNP O66529
jB	25	GLY	-	expression tag	UNP O66529
jB	26	ALA	-	expression tag	UNP O66529
jB	27	GLY	-	expression tag	UNP O66529
jB	28	ALA	-	expression tag	UNP O66529
jB	29	GLY	-	expression tag	UNP O66529
jB	30	ALA	-	expression tag	UNP O66529
jB	31	MET	-	expression tag	UNP O66529
jB	39	ASN	ILE	conflict	UNP O66529
jB	42	VAL	GLU	conflict	UNP O66529
jB	58	VAL	ILE	conflict	UNP O66529
jB	59	SER	THR	conflict	UNP O66529
jB	61	ASP	GLY	conflict	UNP O66529
jB	62	ILE	VAL	conflict	UNP O66529
jB	97	TYR	PHE	conflict	UNP O66529
jB	102	GLY	-	expression tag	UNP O66529
jB	103	THR	-	expression tag	UNP O66529
jB	104	GLU	-	expression tag	UNP O66529
jB	105	HIS	-	expression tag	UNP O66529
jB	106	HIS	-	expression tag	UNP O66529
jB	107	HIS	-	expression tag	UNP O66529
jB	108	HIS	-	expression tag	UNP O66529
jB	109	LEU	-	expression tag	UNP O66529
jB	110	HIS	-	expression tag	UNP O66529
jB	111	GLY	-	expression tag	UNP O66529
jB	112	SER	-	expression tag	UNP O66529
jB	113	SER	-	expression tag	UNP O66529
jC	1	MET	-	initiating methionine	UNP O66529
jC	2	GLY	-	expression tag	UNP O66529
jC	3	ASN	-	expression tag	UNP O66529
jC	4	ALA	-	expression tag	UNP O66529
jC	5	ARG	-	expression tag	UNP O66529
jC	6	THR	-	expression tag	UNP O66529
jC	7	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
jC	8	ARG	-	expression tag	UNP O66529
jC	9	ARG	-	expression tag	UNP O66529
jC	10	GLU	-	expression tag	UNP O66529
jC	11	ARG	-	expression tag	UNP O66529
jC	12	ARG	-	expression tag	UNP O66529
jC	13	ALA	-	expression tag	UNP O66529
jC	14	GLU	-	expression tag	UNP O66529
jC	15	LYS	-	expression tag	UNP O66529
jC	16	GLN	-	expression tag	UNP O66529
jC	17	ALA	-	expression tag	UNP O66529
jC	18	GLN	-	expression tag	UNP O66529
jC	19	TRP	-	expression tag	UNP O66529
jC	20	LYS	-	expression tag	UNP O66529
jC	21	ALA	-	expression tag	UNP O66529
jC	22	ALA	-	expression tag	UNP O66529
jC	23	ASN	-	expression tag	UNP O66529
jC	24	ALA	-	expression tag	UNP O66529
jC	25	GLY	-	expression tag	UNP O66529
jC	26	ALA	-	expression tag	UNP O66529
jC	27	GLY	-	expression tag	UNP O66529
jC	28	ALA	-	expression tag	UNP O66529
jC	29	GLY	-	expression tag	UNP O66529
jC	30	ALA	-	expression tag	UNP O66529
jC	31	MET	-	expression tag	UNP O66529
jC	39	ASN	ILE	conflict	UNP O66529
jC	42	VAL	GLU	conflict	UNP O66529
jC	58	VAL	ILE	conflict	UNP O66529
jC	59	SER	THR	conflict	UNP O66529
jC	61	ASP	GLY	conflict	UNP O66529
jC	62	ILE	VAL	conflict	UNP O66529
jC	97	TYR	PHE	conflict	UNP O66529
jC	102	GLY	-	expression tag	UNP O66529
jC	103	THR	-	expression tag	UNP O66529
jC	104	GLU	-	expression tag	UNP O66529
jC	105	HIS	-	expression tag	UNP O66529
jC	106	HIS	-	expression tag	UNP O66529
jC	107	HIS	-	expression tag	UNP O66529
jC	108	HIS	-	expression tag	UNP O66529
jC	109	LEU	-	expression tag	UNP O66529
jC	110	HIS	-	expression tag	UNP O66529
jC	111	GLY	-	expression tag	UNP O66529
jC	112	SER	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
jC	113	SER	-	expression tag	UNP O66529
jD	1	MET	-	initiating methionine	UNP O66529
jD	2	GLY	-	expression tag	UNP O66529
jD	3	ASN	-	expression tag	UNP O66529
jD	4	ALA	-	expression tag	UNP O66529
jD	5	ARG	-	expression tag	UNP O66529
jD	6	THR	-	expression tag	UNP O66529
jD	7	ARG	-	expression tag	UNP O66529
jD	8	ARG	-	expression tag	UNP O66529
jD	9	ARG	-	expression tag	UNP O66529
jD	10	GLU	-	expression tag	UNP O66529
jD	11	ARG	-	expression tag	UNP O66529
jD	12	ARG	-	expression tag	UNP O66529
jD	13	ALA	-	expression tag	UNP O66529
jD	14	GLU	-	expression tag	UNP O66529
jD	15	LYS	-	expression tag	UNP O66529
jD	16	GLN	-	expression tag	UNP O66529
jD	17	ALA	-	expression tag	UNP O66529
jD	18	GLN	-	expression tag	UNP O66529
jD	19	TRP	-	expression tag	UNP O66529
jD	20	LYS	-	expression tag	UNP O66529
jD	21	ALA	-	expression tag	UNP O66529
jD	22	ALA	-	expression tag	UNP O66529
jD	23	ASN	-	expression tag	UNP O66529
jD	24	ALA	-	expression tag	UNP O66529
jD	25	GLY	-	expression tag	UNP O66529
jD	26	ALA	-	expression tag	UNP O66529
jD	27	GLY	-	expression tag	UNP O66529
jD	28	ALA	-	expression tag	UNP O66529
jD	29	GLY	-	expression tag	UNP O66529
jD	30	ALA	-	expression tag	UNP O66529
jD	31	MET	-	expression tag	UNP O66529
jD	39	ASN	ILE	conflict	UNP O66529
jD	42	VAL	GLU	conflict	UNP O66529
jD	58	VAL	ILE	conflict	UNP O66529
jD	59	SER	THR	conflict	UNP O66529
jD	61	ASP	GLY	conflict	UNP O66529
jD	62	ILE	VAL	conflict	UNP O66529
jD	97	TYR	PHE	conflict	UNP O66529
jD	102	GLY	-	expression tag	UNP O66529
jD	103	THR	-	expression tag	UNP O66529
jD	104	GLU	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
jD	105	HIS	-	expression tag	UNP O66529
jD	106	HIS	-	expression tag	UNP O66529
jD	107	HIS	-	expression tag	UNP O66529
jD	108	HIS	-	expression tag	UNP O66529
jD	109	LEU	-	expression tag	UNP O66529
jD	110	HIS	-	expression tag	UNP O66529
jD	111	GLY	-	expression tag	UNP O66529
jD	112	SER	-	expression tag	UNP O66529
jD	113	SER	-	expression tag	UNP O66529
kA	1	MET	-	initiating methionine	UNP O66529
kA	2	GLY	-	expression tag	UNP O66529
kA	3	ASN	-	expression tag	UNP O66529
kA	4	ALA	-	expression tag	UNP O66529
kA	5	ARG	-	expression tag	UNP O66529
kA	6	THR	-	expression tag	UNP O66529
kA	7	ARG	-	expression tag	UNP O66529
kA	8	ARG	-	expression tag	UNP O66529
kA	9	ARG	-	expression tag	UNP O66529
kA	10	GLU	-	expression tag	UNP O66529
kA	11	ARG	-	expression tag	UNP O66529
kA	12	ARG	-	expression tag	UNP O66529
kA	13	ALA	-	expression tag	UNP O66529
kA	14	GLU	-	expression tag	UNP O66529
kA	15	LYS	-	expression tag	UNP O66529
kA	16	GLN	-	expression tag	UNP O66529
kA	17	ALA	-	expression tag	UNP O66529
kA	18	GLN	-	expression tag	UNP O66529
kA	19	TRP	-	expression tag	UNP O66529
kA	20	LYS	-	expression tag	UNP O66529
kA	21	ALA	-	expression tag	UNP O66529
kA	22	ALA	-	expression tag	UNP O66529
kA	23	ASN	-	expression tag	UNP O66529
kA	24	ALA	-	expression tag	UNP O66529
kA	25	GLY	-	expression tag	UNP O66529
kA	26	ALA	-	expression tag	UNP O66529
kA	27	GLY	-	expression tag	UNP O66529
kA	28	ALA	-	expression tag	UNP O66529
kA	29	GLY	-	expression tag	UNP O66529
kA	30	ALA	-	expression tag	UNP O66529
kA	31	MET	-	expression tag	UNP O66529
kA	39	ASN	ILE	conflict	UNP O66529
kA	42	VAL	GLU	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
kA	58	VAL	ILE	conflict	UNP O66529
kA	59	SER	THR	conflict	UNP O66529
kA	61	ASP	GLY	conflict	UNP O66529
kA	62	ILE	VAL	conflict	UNP O66529
kA	97	TYR	PHE	conflict	UNP O66529
kA	102	GLY	-	expression tag	UNP O66529
kA	103	THR	-	expression tag	UNP O66529
kA	104	GLU	-	expression tag	UNP O66529
kA	105	HIS	-	expression tag	UNP O66529
kA	106	HIS	-	expression tag	UNP O66529
kA	107	HIS	-	expression tag	UNP O66529
kA	108	HIS	-	expression tag	UNP O66529
kA	109	LEU	-	expression tag	UNP O66529
kA	110	HIS	-	expression tag	UNP O66529
kA	111	GLY	-	expression tag	UNP O66529
kA	112	SER	-	expression tag	UNP O66529
kA	113	SER	-	expression tag	UNP O66529
kB	1	MET	-	initiating methionine	UNP O66529
kB	2	GLY	-	expression tag	UNP O66529
kB	3	ASN	-	expression tag	UNP O66529
kB	4	ALA	-	expression tag	UNP O66529
kB	5	ARG	-	expression tag	UNP O66529
kB	6	THR	-	expression tag	UNP O66529
kB	7	ARG	-	expression tag	UNP O66529
kB	8	ARG	-	expression tag	UNP O66529
kB	9	ARG	-	expression tag	UNP O66529
kB	10	GLU	-	expression tag	UNP O66529
kB	11	ARG	-	expression tag	UNP O66529
kB	12	ARG	-	expression tag	UNP O66529
kB	13	ALA	-	expression tag	UNP O66529
kB	14	GLU	-	expression tag	UNP O66529
kB	15	LYS	-	expression tag	UNP O66529
kB	16	GLN	-	expression tag	UNP O66529
kB	17	ALA	-	expression tag	UNP O66529
kB	18	GLN	-	expression tag	UNP O66529
kB	19	TRP	-	expression tag	UNP O66529
kB	20	LYS	-	expression tag	UNP O66529
kB	21	ALA	-	expression tag	UNP O66529
kB	22	ALA	-	expression tag	UNP O66529
kB	23	ASN	-	expression tag	UNP O66529
kB	24	ALA	-	expression tag	UNP O66529
kB	25	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
kB	26	ALA	-	expression tag	UNP O66529
kB	27	GLY	-	expression tag	UNP O66529
kB	28	ALA	-	expression tag	UNP O66529
kB	29	GLY	-	expression tag	UNP O66529
kB	30	ALA	-	expression tag	UNP O66529
kB	31	MET	-	expression tag	UNP O66529
kB	39	ASN	ILE	conflict	UNP O66529
kB	42	VAL	GLU	conflict	UNP O66529
kB	58	VAL	ILE	conflict	UNP O66529
kB	59	SER	THR	conflict	UNP O66529
kB	61	ASP	GLY	conflict	UNP O66529
kB	62	ILE	VAL	conflict	UNP O66529
kB	97	TYR	PHE	conflict	UNP O66529
kB	102	GLY	-	expression tag	UNP O66529
kB	103	THR	-	expression tag	UNP O66529
kB	104	GLU	-	expression tag	UNP O66529
kB	105	HIS	-	expression tag	UNP O66529
kB	106	HIS	-	expression tag	UNP O66529
kB	107	HIS	-	expression tag	UNP O66529
kB	108	HIS	-	expression tag	UNP O66529
kB	109	LEU	-	expression tag	UNP O66529
kB	110	HIS	-	expression tag	UNP O66529
kB	111	GLY	-	expression tag	UNP O66529
kB	112	SER	-	expression tag	UNP O66529
kB	113	SER	-	expression tag	UNP O66529
kC	1	MET	-	initiating methionine	UNP O66529
kC	2	GLY	-	expression tag	UNP O66529
kC	3	ASN	-	expression tag	UNP O66529
kC	4	ALA	-	expression tag	UNP O66529
kC	5	ARG	-	expression tag	UNP O66529
kC	6	THR	-	expression tag	UNP O66529
kC	7	ARG	-	expression tag	UNP O66529
kC	8	ARG	-	expression tag	UNP O66529
kC	9	ARG	-	expression tag	UNP O66529
kC	10	GLU	-	expression tag	UNP O66529
kC	11	ARG	-	expression tag	UNP O66529
kC	12	ARG	-	expression tag	UNP O66529
kC	13	ALA	-	expression tag	UNP O66529
kC	14	GLU	-	expression tag	UNP O66529
kC	15	LYS	-	expression tag	UNP O66529
kC	16	GLN	-	expression tag	UNP O66529
kC	17	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
kC	18	GLN	-	expression tag	UNP O66529
kC	19	TRP	-	expression tag	UNP O66529
kC	20	LYS	-	expression tag	UNP O66529
kC	21	ALA	-	expression tag	UNP O66529
kC	22	ALA	-	expression tag	UNP O66529
kC	23	ASN	-	expression tag	UNP O66529
kC	24	ALA	-	expression tag	UNP O66529
kC	25	GLY	-	expression tag	UNP O66529
kC	26	ALA	-	expression tag	UNP O66529
kC	27	GLY	-	expression tag	UNP O66529
kC	28	ALA	-	expression tag	UNP O66529
kC	29	GLY	-	expression tag	UNP O66529
kC	30	ALA	-	expression tag	UNP O66529
kC	31	MET	-	expression tag	UNP O66529
kC	39	ASN	ILE	conflict	UNP O66529
kC	42	VAL	GLU	conflict	UNP O66529
kC	58	VAL	ILE	conflict	UNP O66529
kC	59	SER	THR	conflict	UNP O66529
kC	61	ASP	GLY	conflict	UNP O66529
kC	62	ILE	VAL	conflict	UNP O66529
kC	97	TYR	PHE	conflict	UNP O66529
kC	102	GLY	-	expression tag	UNP O66529
kC	103	THR	-	expression tag	UNP O66529
kC	104	GLU	-	expression tag	UNP O66529
kC	105	HIS	-	expression tag	UNP O66529
kC	106	HIS	-	expression tag	UNP O66529
kC	107	HIS	-	expression tag	UNP O66529
kC	108	HIS	-	expression tag	UNP O66529
kC	109	LEU	-	expression tag	UNP O66529
kC	110	HIS	-	expression tag	UNP O66529
kC	111	GLY	-	expression tag	UNP O66529
kC	112	SER	-	expression tag	UNP O66529
kC	113	SER	-	expression tag	UNP O66529
kD	1	MET	-	initiating methionine	UNP O66529
kD	2	GLY	-	expression tag	UNP O66529
kD	3	ASN	-	expression tag	UNP O66529
kD	4	ALA	-	expression tag	UNP O66529
kD	5	ARG	-	expression tag	UNP O66529
kD	6	THR	-	expression tag	UNP O66529
kD	7	ARG	-	expression tag	UNP O66529
kD	8	ARG	-	expression tag	UNP O66529
kD	9	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
kD	10	GLU	-	expression tag	UNP O66529
kD	11	ARG	-	expression tag	UNP O66529
kD	12	ARG	-	expression tag	UNP O66529
kD	13	ALA	-	expression tag	UNP O66529
kD	14	GLU	-	expression tag	UNP O66529
kD	15	LYS	-	expression tag	UNP O66529
kD	16	GLN	-	expression tag	UNP O66529
kD	17	ALA	-	expression tag	UNP O66529
kD	18	GLN	-	expression tag	UNP O66529
kD	19	TRP	-	expression tag	UNP O66529
kD	20	LYS	-	expression tag	UNP O66529
kD	21	ALA	-	expression tag	UNP O66529
kD	22	ALA	-	expression tag	UNP O66529
kD	23	ASN	-	expression tag	UNP O66529
kD	24	ALA	-	expression tag	UNP O66529
kD	25	GLY	-	expression tag	UNP O66529
kD	26	ALA	-	expression tag	UNP O66529
kD	27	GLY	-	expression tag	UNP O66529
kD	28	ALA	-	expression tag	UNP O66529
kD	29	GLY	-	expression tag	UNP O66529
kD	30	ALA	-	expression tag	UNP O66529
kD	31	MET	-	expression tag	UNP O66529
kD	39	ASN	ILE	conflict	UNP O66529
kD	42	VAL	GLU	conflict	UNP O66529
kD	58	VAL	ILE	conflict	UNP O66529
kD	59	SER	THR	conflict	UNP O66529
kD	61	ASP	GLY	conflict	UNP O66529
kD	62	ILE	VAL	conflict	UNP O66529
kD	97	TYR	PHE	conflict	UNP O66529
kD	102	GLY	-	expression tag	UNP O66529
kD	103	THR	-	expression tag	UNP O66529
kD	104	GLU	-	expression tag	UNP O66529
kD	105	HIS	-	expression tag	UNP O66529
kD	106	HIS	-	expression tag	UNP O66529
kD	107	HIS	-	expression tag	UNP O66529
kD	108	HIS	-	expression tag	UNP O66529
kD	109	LEU	-	expression tag	UNP O66529
kD	110	HIS	-	expression tag	UNP O66529
kD	111	GLY	-	expression tag	UNP O66529
kD	112	SER	-	expression tag	UNP O66529
kD	113	SER	-	expression tag	UNP O66529
lA	1	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
1A	2	GLY	-	expression tag	UNP O66529
1A	3	ASN	-	expression tag	UNP O66529
1A	4	ALA	-	expression tag	UNP O66529
1A	5	ARG	-	expression tag	UNP O66529
1A	6	THR	-	expression tag	UNP O66529
1A	7	ARG	-	expression tag	UNP O66529
1A	8	ARG	-	expression tag	UNP O66529
1A	9	ARG	-	expression tag	UNP O66529
1A	10	GLU	-	expression tag	UNP O66529
1A	11	ARG	-	expression tag	UNP O66529
1A	12	ARG	-	expression tag	UNP O66529
1A	13	ALA	-	expression tag	UNP O66529
1A	14	GLU	-	expression tag	UNP O66529
1A	15	LYS	-	expression tag	UNP O66529
1A	16	GLN	-	expression tag	UNP O66529
1A	17	ALA	-	expression tag	UNP O66529
1A	18	GLN	-	expression tag	UNP O66529
1A	19	TRP	-	expression tag	UNP O66529
1A	20	LYS	-	expression tag	UNP O66529
1A	21	ALA	-	expression tag	UNP O66529
1A	22	ALA	-	expression tag	UNP O66529
1A	23	ASN	-	expression tag	UNP O66529
1A	24	ALA	-	expression tag	UNP O66529
1A	25	GLY	-	expression tag	UNP O66529
1A	26	ALA	-	expression tag	UNP O66529
1A	27	GLY	-	expression tag	UNP O66529
1A	28	ALA	-	expression tag	UNP O66529
1A	29	GLY	-	expression tag	UNP O66529
1A	30	ALA	-	expression tag	UNP O66529
1A	31	MET	-	expression tag	UNP O66529
1A	39	ASN	ILE	conflict	UNP O66529
1A	42	VAL	GLU	conflict	UNP O66529
1A	58	VAL	ILE	conflict	UNP O66529
1A	59	SER	THR	conflict	UNP O66529
1A	61	ASP	GLY	conflict	UNP O66529
1A	62	ILE	VAL	conflict	UNP O66529
1A	97	TYR	PHE	conflict	UNP O66529
1A	102	GLY	-	expression tag	UNP O66529
1A	103	THR	-	expression tag	UNP O66529
1A	104	GLU	-	expression tag	UNP O66529
1A	105	HIS	-	expression tag	UNP O66529
1A	106	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
1A	107	HIS	-	expression tag	UNP O66529
1A	108	HIS	-	expression tag	UNP O66529
1A	109	LEU	-	expression tag	UNP O66529
1A	110	HIS	-	expression tag	UNP O66529
1A	111	GLY	-	expression tag	UNP O66529
1A	112	SER	-	expression tag	UNP O66529
1A	113	SER	-	expression tag	UNP O66529
1B	1	MET	-	initiating methionine	UNP O66529
1B	2	GLY	-	expression tag	UNP O66529
1B	3	ASN	-	expression tag	UNP O66529
1B	4	ALA	-	expression tag	UNP O66529
1B	5	ARG	-	expression tag	UNP O66529
1B	6	THR	-	expression tag	UNP O66529
1B	7	ARG	-	expression tag	UNP O66529
1B	8	ARG	-	expression tag	UNP O66529
1B	9	ARG	-	expression tag	UNP O66529
1B	10	GLU	-	expression tag	UNP O66529
1B	11	ARG	-	expression tag	UNP O66529
1B	12	ARG	-	expression tag	UNP O66529
1B	13	ALA	-	expression tag	UNP O66529
1B	14	GLU	-	expression tag	UNP O66529
1B	15	LYS	-	expression tag	UNP O66529
1B	16	GLN	-	expression tag	UNP O66529
1B	17	ALA	-	expression tag	UNP O66529
1B	18	GLN	-	expression tag	UNP O66529
1B	19	TRP	-	expression tag	UNP O66529
1B	20	LYS	-	expression tag	UNP O66529
1B	21	ALA	-	expression tag	UNP O66529
1B	22	ALA	-	expression tag	UNP O66529
1B	23	ASN	-	expression tag	UNP O66529
1B	24	ALA	-	expression tag	UNP O66529
1B	25	GLY	-	expression tag	UNP O66529
1B	26	ALA	-	expression tag	UNP O66529
1B	27	GLY	-	expression tag	UNP O66529
1B	28	ALA	-	expression tag	UNP O66529
1B	29	GLY	-	expression tag	UNP O66529
1B	30	ALA	-	expression tag	UNP O66529
1B	31	MET	-	expression tag	UNP O66529
1B	39	ASN	ILE	conflict	UNP O66529
1B	42	VAL	GLU	conflict	UNP O66529
1B	58	VAL	ILE	conflict	UNP O66529
1B	59	SER	THR	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
1B	61	ASP	GLY	conflict	UNP O66529
1B	62	ILE	VAL	conflict	UNP O66529
1B	97	TYR	PHE	conflict	UNP O66529
1B	102	GLY	-	expression tag	UNP O66529
1B	103	THR	-	expression tag	UNP O66529
1B	104	GLU	-	expression tag	UNP O66529
1B	105	HIS	-	expression tag	UNP O66529
1B	106	HIS	-	expression tag	UNP O66529
1B	107	HIS	-	expression tag	UNP O66529
1B	108	HIS	-	expression tag	UNP O66529
1B	109	LEU	-	expression tag	UNP O66529
1B	110	HIS	-	expression tag	UNP O66529
1B	111	GLY	-	expression tag	UNP O66529
1B	112	SER	-	expression tag	UNP O66529
1B	113	SER	-	expression tag	UNP O66529
1C	1	MET	-	initiating methionine	UNP O66529
1C	2	GLY	-	expression tag	UNP O66529
1C	3	ASN	-	expression tag	UNP O66529
1C	4	ALA	-	expression tag	UNP O66529
1C	5	ARG	-	expression tag	UNP O66529
1C	6	THR	-	expression tag	UNP O66529
1C	7	ARG	-	expression tag	UNP O66529
1C	8	ARG	-	expression tag	UNP O66529
1C	9	ARG	-	expression tag	UNP O66529
1C	10	GLU	-	expression tag	UNP O66529
1C	11	ARG	-	expression tag	UNP O66529
1C	12	ARG	-	expression tag	UNP O66529
1C	13	ALA	-	expression tag	UNP O66529
1C	14	GLU	-	expression tag	UNP O66529
1C	15	LYS	-	expression tag	UNP O66529
1C	16	GLN	-	expression tag	UNP O66529
1C	17	ALA	-	expression tag	UNP O66529
1C	18	GLN	-	expression tag	UNP O66529
1C	19	TRP	-	expression tag	UNP O66529
1C	20	LYS	-	expression tag	UNP O66529
1C	21	ALA	-	expression tag	UNP O66529
1C	22	ALA	-	expression tag	UNP O66529
1C	23	ASN	-	expression tag	UNP O66529
1C	24	ALA	-	expression tag	UNP O66529
1C	25	GLY	-	expression tag	UNP O66529
1C	26	ALA	-	expression tag	UNP O66529
1C	27	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
1C	28	ALA	-	expression tag	UNP O66529
1C	29	GLY	-	expression tag	UNP O66529
1C	30	ALA	-	expression tag	UNP O66529
1C	31	MET	-	expression tag	UNP O66529
1C	39	ASN	ILE	conflict	UNP O66529
1C	42	VAL	GLU	conflict	UNP O66529
1C	58	VAL	ILE	conflict	UNP O66529
1C	59	SER	THR	conflict	UNP O66529
1C	61	ASP	GLY	conflict	UNP O66529
1C	62	ILE	VAL	conflict	UNP O66529
1C	97	TYR	PHE	conflict	UNP O66529
1C	102	GLY	-	expression tag	UNP O66529
1C	103	THR	-	expression tag	UNP O66529
1C	104	GLU	-	expression tag	UNP O66529
1C	105	HIS	-	expression tag	UNP O66529
1C	106	HIS	-	expression tag	UNP O66529
1C	107	HIS	-	expression tag	UNP O66529
1C	108	HIS	-	expression tag	UNP O66529
1C	109	LEU	-	expression tag	UNP O66529
1C	110	HIS	-	expression tag	UNP O66529
1C	111	GLY	-	expression tag	UNP O66529
1C	112	SER	-	expression tag	UNP O66529
1C	113	SER	-	expression tag	UNP O66529
1D	1	MET	-	initiating methionine	UNP O66529
1D	2	GLY	-	expression tag	UNP O66529
1D	3	ASN	-	expression tag	UNP O66529
1D	4	ALA	-	expression tag	UNP O66529
1D	5	ARG	-	expression tag	UNP O66529
1D	6	THR	-	expression tag	UNP O66529
1D	7	ARG	-	expression tag	UNP O66529
1D	8	ARG	-	expression tag	UNP O66529
1D	9	ARG	-	expression tag	UNP O66529
1D	10	GLU	-	expression tag	UNP O66529
1D	11	ARG	-	expression tag	UNP O66529
1D	12	ARG	-	expression tag	UNP O66529
1D	13	ALA	-	expression tag	UNP O66529
1D	14	GLU	-	expression tag	UNP O66529
1D	15	LYS	-	expression tag	UNP O66529
1D	16	GLN	-	expression tag	UNP O66529
1D	17	ALA	-	expression tag	UNP O66529
1D	18	GLN	-	expression tag	UNP O66529
1D	19	TRP	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
1D	20	LYS	-	expression tag	UNP O66529
1D	21	ALA	-	expression tag	UNP O66529
1D	22	ALA	-	expression tag	UNP O66529
1D	23	ASN	-	expression tag	UNP O66529
1D	24	ALA	-	expression tag	UNP O66529
1D	25	GLY	-	expression tag	UNP O66529
1D	26	ALA	-	expression tag	UNP O66529
1D	27	GLY	-	expression tag	UNP O66529
1D	28	ALA	-	expression tag	UNP O66529
1D	29	GLY	-	expression tag	UNP O66529
1D	30	ALA	-	expression tag	UNP O66529
1D	31	MET	-	expression tag	UNP O66529
1D	39	ASN	ILE	conflict	UNP O66529
1D	42	VAL	GLU	conflict	UNP O66529
1D	58	VAL	ILE	conflict	UNP O66529
1D	59	SER	THR	conflict	UNP O66529
1D	61	ASP	GLY	conflict	UNP O66529
1D	62	ILE	VAL	conflict	UNP O66529
1D	97	TYR	PHE	conflict	UNP O66529
1D	102	GLY	-	expression tag	UNP O66529
1D	103	THR	-	expression tag	UNP O66529
1D	104	GLU	-	expression tag	UNP O66529
1D	105	HIS	-	expression tag	UNP O66529
1D	106	HIS	-	expression tag	UNP O66529
1D	107	HIS	-	expression tag	UNP O66529
1D	108	HIS	-	expression tag	UNP O66529
1D	109	LEU	-	expression tag	UNP O66529
1D	110	HIS	-	expression tag	UNP O66529
1D	111	GLY	-	expression tag	UNP O66529
1D	112	SER	-	expression tag	UNP O66529
1D	113	SER	-	expression tag	UNP O66529
mA	1	MET	-	initiating methionine	UNP O66529
mA	2	GLY	-	expression tag	UNP O66529
mA	3	ASN	-	expression tag	UNP O66529
mA	4	ALA	-	expression tag	UNP O66529
mA	5	ARG	-	expression tag	UNP O66529
mA	6	THR	-	expression tag	UNP O66529
mA	7	ARG	-	expression tag	UNP O66529
mA	8	ARG	-	expression tag	UNP O66529
mA	9	ARG	-	expression tag	UNP O66529
mA	10	GLU	-	expression tag	UNP O66529
mA	11	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
mA	12	ARG	-	expression tag	UNP O66529
mA	13	ALA	-	expression tag	UNP O66529
mA	14	GLU	-	expression tag	UNP O66529
mA	15	LYS	-	expression tag	UNP O66529
mA	16	GLN	-	expression tag	UNP O66529
mA	17	ALA	-	expression tag	UNP O66529
mA	18	GLN	-	expression tag	UNP O66529
mA	19	TRP	-	expression tag	UNP O66529
mA	20	LYS	-	expression tag	UNP O66529
mA	21	ALA	-	expression tag	UNP O66529
mA	22	ALA	-	expression tag	UNP O66529
mA	23	ASN	-	expression tag	UNP O66529
mA	24	ALA	-	expression tag	UNP O66529
mA	25	GLY	-	expression tag	UNP O66529
mA	26	ALA	-	expression tag	UNP O66529
mA	27	GLY	-	expression tag	UNP O66529
mA	28	ALA	-	expression tag	UNP O66529
mA	29	GLY	-	expression tag	UNP O66529
mA	30	ALA	-	expression tag	UNP O66529
mA	31	MET	-	expression tag	UNP O66529
mA	39	ASN	ILE	conflict	UNP O66529
mA	42	VAL	GLU	conflict	UNP O66529
mA	58	VAL	ILE	conflict	UNP O66529
mA	59	SER	THR	conflict	UNP O66529
mA	61	ASP	GLY	conflict	UNP O66529
mA	62	ILE	VAL	conflict	UNP O66529
mA	97	TYR	PHE	conflict	UNP O66529
mA	102	GLY	-	expression tag	UNP O66529
mA	103	THR	-	expression tag	UNP O66529
mA	104	GLU	-	expression tag	UNP O66529
mA	105	HIS	-	expression tag	UNP O66529
mA	106	HIS	-	expression tag	UNP O66529
mA	107	HIS	-	expression tag	UNP O66529
mA	108	HIS	-	expression tag	UNP O66529
mA	109	LEU	-	expression tag	UNP O66529
mA	110	HIS	-	expression tag	UNP O66529
mA	111	GLY	-	expression tag	UNP O66529
mA	112	SER	-	expression tag	UNP O66529
mA	113	SER	-	expression tag	UNP O66529
mB	1	MET	-	initiating methionine	UNP O66529
mB	2	GLY	-	expression tag	UNP O66529
mB	3	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
mB	4	ALA	-	expression tag	UNP O66529
mB	5	ARG	-	expression tag	UNP O66529
mB	6	THR	-	expression tag	UNP O66529
mB	7	ARG	-	expression tag	UNP O66529
mB	8	ARG	-	expression tag	UNP O66529
mB	9	ARG	-	expression tag	UNP O66529
mB	10	GLU	-	expression tag	UNP O66529
mB	11	ARG	-	expression tag	UNP O66529
mB	12	ARG	-	expression tag	UNP O66529
mB	13	ALA	-	expression tag	UNP O66529
mB	14	GLU	-	expression tag	UNP O66529
mB	15	LYS	-	expression tag	UNP O66529
mB	16	GLN	-	expression tag	UNP O66529
mB	17	ALA	-	expression tag	UNP O66529
mB	18	GLN	-	expression tag	UNP O66529
mB	19	TRP	-	expression tag	UNP O66529
mB	20	LYS	-	expression tag	UNP O66529
mB	21	ALA	-	expression tag	UNP O66529
mB	22	ALA	-	expression tag	UNP O66529
mB	23	ASN	-	expression tag	UNP O66529
mB	24	ALA	-	expression tag	UNP O66529
mB	25	GLY	-	expression tag	UNP O66529
mB	26	ALA	-	expression tag	UNP O66529
mB	27	GLY	-	expression tag	UNP O66529
mB	28	ALA	-	expression tag	UNP O66529
mB	29	GLY	-	expression tag	UNP O66529
mB	30	ALA	-	expression tag	UNP O66529
mB	31	MET	-	expression tag	UNP O66529
mB	39	ASN	ILE	conflict	UNP O66529
mB	42	VAL	GLU	conflict	UNP O66529
mB	58	VAL	ILE	conflict	UNP O66529
mB	59	SER	THR	conflict	UNP O66529
mB	61	ASP	GLY	conflict	UNP O66529
mB	62	ILE	VAL	conflict	UNP O66529
mB	97	TYR	PHE	conflict	UNP O66529
mB	102	GLY	-	expression tag	UNP O66529
mB	103	THR	-	expression tag	UNP O66529
mB	104	GLU	-	expression tag	UNP O66529
mB	105	HIS	-	expression tag	UNP O66529
mB	106	HIS	-	expression tag	UNP O66529
mB	107	HIS	-	expression tag	UNP O66529
mB	108	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
mB	109	LEU	-	expression tag	UNP O66529
mB	110	HIS	-	expression tag	UNP O66529
mB	111	GLY	-	expression tag	UNP O66529
mB	112	SER	-	expression tag	UNP O66529
mB	113	SER	-	expression tag	UNP O66529
mC	1	MET	-	initiating methionine	UNP O66529
mC	2	GLY	-	expression tag	UNP O66529
mC	3	ASN	-	expression tag	UNP O66529
mC	4	ALA	-	expression tag	UNP O66529
mC	5	ARG	-	expression tag	UNP O66529
mC	6	THR	-	expression tag	UNP O66529
mC	7	ARG	-	expression tag	UNP O66529
mC	8	ARG	-	expression tag	UNP O66529
mC	9	ARG	-	expression tag	UNP O66529
mC	10	GLU	-	expression tag	UNP O66529
mC	11	ARG	-	expression tag	UNP O66529
mC	12	ARG	-	expression tag	UNP O66529
mC	13	ALA	-	expression tag	UNP O66529
mC	14	GLU	-	expression tag	UNP O66529
mC	15	LYS	-	expression tag	UNP O66529
mC	16	GLN	-	expression tag	UNP O66529
mC	17	ALA	-	expression tag	UNP O66529
mC	18	GLN	-	expression tag	UNP O66529
mC	19	TRP	-	expression tag	UNP O66529
mC	20	LYS	-	expression tag	UNP O66529
mC	21	ALA	-	expression tag	UNP O66529
mC	22	ALA	-	expression tag	UNP O66529
mC	23	ASN	-	expression tag	UNP O66529
mC	24	ALA	-	expression tag	UNP O66529
mC	25	GLY	-	expression tag	UNP O66529
mC	26	ALA	-	expression tag	UNP O66529
mC	27	GLY	-	expression tag	UNP O66529
mC	28	ALA	-	expression tag	UNP O66529
mC	29	GLY	-	expression tag	UNP O66529
mC	30	ALA	-	expression tag	UNP O66529
mC	31	MET	-	expression tag	UNP O66529
mC	39	ASN	ILE	conflict	UNP O66529
mC	42	VAL	GLU	conflict	UNP O66529
mC	58	VAL	ILE	conflict	UNP O66529
mC	59	SER	THR	conflict	UNP O66529
mC	61	ASP	GLY	conflict	UNP O66529
mC	62	ILE	VAL	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
mC	97	TYR	PHE	conflict	UNP O66529
mC	102	GLY	-	expression tag	UNP O66529
mC	103	THR	-	expression tag	UNP O66529
mC	104	GLU	-	expression tag	UNP O66529
mC	105	HIS	-	expression tag	UNP O66529
mC	106	HIS	-	expression tag	UNP O66529
mC	107	HIS	-	expression tag	UNP O66529
mC	108	HIS	-	expression tag	UNP O66529
mC	109	LEU	-	expression tag	UNP O66529
mC	110	HIS	-	expression tag	UNP O66529
mC	111	GLY	-	expression tag	UNP O66529
mC	112	SER	-	expression tag	UNP O66529
mC	113	SER	-	expression tag	UNP O66529
mD	1	MET	-	initiating methionine	UNP O66529
mD	2	GLY	-	expression tag	UNP O66529
mD	3	ASN	-	expression tag	UNP O66529
mD	4	ALA	-	expression tag	UNP O66529
mD	5	ARG	-	expression tag	UNP O66529
mD	6	THR	-	expression tag	UNP O66529
mD	7	ARG	-	expression tag	UNP O66529
mD	8	ARG	-	expression tag	UNP O66529
mD	9	ARG	-	expression tag	UNP O66529
mD	10	GLU	-	expression tag	UNP O66529
mD	11	ARG	-	expression tag	UNP O66529
mD	12	ARG	-	expression tag	UNP O66529
mD	13	ALA	-	expression tag	UNP O66529
mD	14	GLU	-	expression tag	UNP O66529
mD	15	LYS	-	expression tag	UNP O66529
mD	16	GLN	-	expression tag	UNP O66529
mD	17	ALA	-	expression tag	UNP O66529
mD	18	GLN	-	expression tag	UNP O66529
mD	19	TRP	-	expression tag	UNP O66529
mD	20	LYS	-	expression tag	UNP O66529
mD	21	ALA	-	expression tag	UNP O66529
mD	22	ALA	-	expression tag	UNP O66529
mD	23	ASN	-	expression tag	UNP O66529
mD	24	ALA	-	expression tag	UNP O66529
mD	25	GLY	-	expression tag	UNP O66529
mD	26	ALA	-	expression tag	UNP O66529
mD	27	GLY	-	expression tag	UNP O66529
mD	28	ALA	-	expression tag	UNP O66529
mD	29	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
mD	30	ALA	-	expression tag	UNP O66529
mD	31	MET	-	expression tag	UNP O66529
mD	39	ASN	ILE	conflict	UNP O66529
mD	42	VAL	GLU	conflict	UNP O66529
mD	58	VAL	ILE	conflict	UNP O66529
mD	59	SER	THR	conflict	UNP O66529
mD	61	ASP	GLY	conflict	UNP O66529
mD	62	ILE	VAL	conflict	UNP O66529
mD	97	TYR	PHE	conflict	UNP O66529
mD	102	GLY	-	expression tag	UNP O66529
mD	103	THR	-	expression tag	UNP O66529
mD	104	GLU	-	expression tag	UNP O66529
mD	105	HIS	-	expression tag	UNP O66529
mD	106	HIS	-	expression tag	UNP O66529
mD	107	HIS	-	expression tag	UNP O66529
mD	108	HIS	-	expression tag	UNP O66529
mD	109	LEU	-	expression tag	UNP O66529
mD	110	HIS	-	expression tag	UNP O66529
mD	111	GLY	-	expression tag	UNP O66529
mD	112	SER	-	expression tag	UNP O66529
mD	113	SER	-	expression tag	UNP O66529
nA	1	MET	-	initiating methionine	UNP O66529
nA	2	GLY	-	expression tag	UNP O66529
nA	3	ASN	-	expression tag	UNP O66529
nA	4	ALA	-	expression tag	UNP O66529
nA	5	ARG	-	expression tag	UNP O66529
nA	6	THR	-	expression tag	UNP O66529
nA	7	ARG	-	expression tag	UNP O66529
nA	8	ARG	-	expression tag	UNP O66529
nA	9	ARG	-	expression tag	UNP O66529
nA	10	GLU	-	expression tag	UNP O66529
nA	11	ARG	-	expression tag	UNP O66529
nA	12	ARG	-	expression tag	UNP O66529
nA	13	ALA	-	expression tag	UNP O66529
nA	14	GLU	-	expression tag	UNP O66529
nA	15	LYS	-	expression tag	UNP O66529
nA	16	GLN	-	expression tag	UNP O66529
nA	17	ALA	-	expression tag	UNP O66529
nA	18	GLN	-	expression tag	UNP O66529
nA	19	TRP	-	expression tag	UNP O66529
nA	20	LYS	-	expression tag	UNP O66529
nA	21	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
nA	22	ALA	-	expression tag	UNP O66529
nA	23	ASN	-	expression tag	UNP O66529
nA	24	ALA	-	expression tag	UNP O66529
nA	25	GLY	-	expression tag	UNP O66529
nA	26	ALA	-	expression tag	UNP O66529
nA	27	GLY	-	expression tag	UNP O66529
nA	28	ALA	-	expression tag	UNP O66529
nA	29	GLY	-	expression tag	UNP O66529
nA	30	ALA	-	expression tag	UNP O66529
nA	31	MET	-	expression tag	UNP O66529
nA	39	ASN	ILE	conflict	UNP O66529
nA	42	VAL	GLU	conflict	UNP O66529
nA	58	VAL	ILE	conflict	UNP O66529
nA	59	SER	THR	conflict	UNP O66529
nA	61	ASP	GLY	conflict	UNP O66529
nA	62	ILE	VAL	conflict	UNP O66529
nA	97	TYR	PHE	conflict	UNP O66529
nA	102	GLY	-	expression tag	UNP O66529
nA	103	THR	-	expression tag	UNP O66529
nA	104	GLU	-	expression tag	UNP O66529
nA	105	HIS	-	expression tag	UNP O66529
nA	106	HIS	-	expression tag	UNP O66529
nA	107	HIS	-	expression tag	UNP O66529
nA	108	HIS	-	expression tag	UNP O66529
nA	109	LEU	-	expression tag	UNP O66529
nA	110	HIS	-	expression tag	UNP O66529
nA	111	GLY	-	expression tag	UNP O66529
nA	112	SER	-	expression tag	UNP O66529
nA	113	SER	-	expression tag	UNP O66529
nB	1	MET	-	initiating methionine	UNP O66529
nB	2	GLY	-	expression tag	UNP O66529
nB	3	ASN	-	expression tag	UNP O66529
nB	4	ALA	-	expression tag	UNP O66529
nB	5	ARG	-	expression tag	UNP O66529
nB	6	THR	-	expression tag	UNP O66529
nB	7	ARG	-	expression tag	UNP O66529
nB	8	ARG	-	expression tag	UNP O66529
nB	9	ARG	-	expression tag	UNP O66529
nB	10	GLU	-	expression tag	UNP O66529
nB	11	ARG	-	expression tag	UNP O66529
nB	12	ARG	-	expression tag	UNP O66529
nB	13	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
nB	14	GLU	-	expression tag	UNP O66529
nB	15	LYS	-	expression tag	UNP O66529
nB	16	GLN	-	expression tag	UNP O66529
nB	17	ALA	-	expression tag	UNP O66529
nB	18	GLN	-	expression tag	UNP O66529
nB	19	TRP	-	expression tag	UNP O66529
nB	20	LYS	-	expression tag	UNP O66529
nB	21	ALA	-	expression tag	UNP O66529
nB	22	ALA	-	expression tag	UNP O66529
nB	23	ASN	-	expression tag	UNP O66529
nB	24	ALA	-	expression tag	UNP O66529
nB	25	GLY	-	expression tag	UNP O66529
nB	26	ALA	-	expression tag	UNP O66529
nB	27	GLY	-	expression tag	UNP O66529
nB	28	ALA	-	expression tag	UNP O66529
nB	29	GLY	-	expression tag	UNP O66529
nB	30	ALA	-	expression tag	UNP O66529
nB	31	MET	-	expression tag	UNP O66529
nB	39	ASN	ILE	conflict	UNP O66529
nB	42	VAL	GLU	conflict	UNP O66529
nB	58	VAL	ILE	conflict	UNP O66529
nB	59	SER	THR	conflict	UNP O66529
nB	61	ASP	GLY	conflict	UNP O66529
nB	62	ILE	VAL	conflict	UNP O66529
nB	97	TYR	PHE	conflict	UNP O66529
nB	102	GLY	-	expression tag	UNP O66529
nB	103	THR	-	expression tag	UNP O66529
nB	104	GLU	-	expression tag	UNP O66529
nB	105	HIS	-	expression tag	UNP O66529
nB	106	HIS	-	expression tag	UNP O66529
nB	107	HIS	-	expression tag	UNP O66529
nB	108	HIS	-	expression tag	UNP O66529
nB	109	LEU	-	expression tag	UNP O66529
nB	110	HIS	-	expression tag	UNP O66529
nB	111	GLY	-	expression tag	UNP O66529
nB	112	SER	-	expression tag	UNP O66529
nB	113	SER	-	expression tag	UNP O66529
nC	1	MET	-	initiating methionine	UNP O66529
nC	2	GLY	-	expression tag	UNP O66529
nC	3	ASN	-	expression tag	UNP O66529
nC	4	ALA	-	expression tag	UNP O66529
nC	5	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
nC	6	THR	-	expression tag	UNP O66529
nC	7	ARG	-	expression tag	UNP O66529
nC	8	ARG	-	expression tag	UNP O66529
nC	9	ARG	-	expression tag	UNP O66529
nC	10	GLU	-	expression tag	UNP O66529
nC	11	ARG	-	expression tag	UNP O66529
nC	12	ARG	-	expression tag	UNP O66529
nC	13	ALA	-	expression tag	UNP O66529
nC	14	GLU	-	expression tag	UNP O66529
nC	15	LYS	-	expression tag	UNP O66529
nC	16	GLN	-	expression tag	UNP O66529
nC	17	ALA	-	expression tag	UNP O66529
nC	18	GLN	-	expression tag	UNP O66529
nC	19	TRP	-	expression tag	UNP O66529
nC	20	LYS	-	expression tag	UNP O66529
nC	21	ALA	-	expression tag	UNP O66529
nC	22	ALA	-	expression tag	UNP O66529
nC	23	ASN	-	expression tag	UNP O66529
nC	24	ALA	-	expression tag	UNP O66529
nC	25	GLY	-	expression tag	UNP O66529
nC	26	ALA	-	expression tag	UNP O66529
nC	27	GLY	-	expression tag	UNP O66529
nC	28	ALA	-	expression tag	UNP O66529
nC	29	GLY	-	expression tag	UNP O66529
nC	30	ALA	-	expression tag	UNP O66529
nC	31	MET	-	expression tag	UNP O66529
nC	39	ASN	ILE	conflict	UNP O66529
nC	42	VAL	GLU	conflict	UNP O66529
nC	58	VAL	ILE	conflict	UNP O66529
nC	59	SER	THR	conflict	UNP O66529
nC	61	ASP	GLY	conflict	UNP O66529
nC	62	ILE	VAL	conflict	UNP O66529
nC	97	TYR	PHE	conflict	UNP O66529
nC	102	GLY	-	expression tag	UNP O66529
nC	103	THR	-	expression tag	UNP O66529
nC	104	GLU	-	expression tag	UNP O66529
nC	105	HIS	-	expression tag	UNP O66529
nC	106	HIS	-	expression tag	UNP O66529
nC	107	HIS	-	expression tag	UNP O66529
nC	108	HIS	-	expression tag	UNP O66529
nC	109	LEU	-	expression tag	UNP O66529
nC	110	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
nC	111	GLY	-	expression tag	UNP O66529
nC	112	SER	-	expression tag	UNP O66529
nC	113	SER	-	expression tag	UNP O66529
nD	1	MET	-	initiating methionine	UNP O66529
nD	2	GLY	-	expression tag	UNP O66529
nD	3	ASN	-	expression tag	UNP O66529
nD	4	ALA	-	expression tag	UNP O66529
nD	5	ARG	-	expression tag	UNP O66529
nD	6	THR	-	expression tag	UNP O66529
nD	7	ARG	-	expression tag	UNP O66529
nD	8	ARG	-	expression tag	UNP O66529
nD	9	ARG	-	expression tag	UNP O66529
nD	10	GLU	-	expression tag	UNP O66529
nD	11	ARG	-	expression tag	UNP O66529
nD	12	ARG	-	expression tag	UNP O66529
nD	13	ALA	-	expression tag	UNP O66529
nD	14	GLU	-	expression tag	UNP O66529
nD	15	LYS	-	expression tag	UNP O66529
nD	16	GLN	-	expression tag	UNP O66529
nD	17	ALA	-	expression tag	UNP O66529
nD	18	GLN	-	expression tag	UNP O66529
nD	19	TRP	-	expression tag	UNP O66529
nD	20	LYS	-	expression tag	UNP O66529
nD	21	ALA	-	expression tag	UNP O66529
nD	22	ALA	-	expression tag	UNP O66529
nD	23	ASN	-	expression tag	UNP O66529
nD	24	ALA	-	expression tag	UNP O66529
nD	25	GLY	-	expression tag	UNP O66529
nD	26	ALA	-	expression tag	UNP O66529
nD	27	GLY	-	expression tag	UNP O66529
nD	28	ALA	-	expression tag	UNP O66529
nD	29	GLY	-	expression tag	UNP O66529
nD	30	ALA	-	expression tag	UNP O66529
nD	31	MET	-	expression tag	UNP O66529
nD	39	ASN	ILE	conflict	UNP O66529
nD	42	VAL	GLU	conflict	UNP O66529
nD	58	VAL	ILE	conflict	UNP O66529
nD	59	SER	THR	conflict	UNP O66529
nD	61	ASP	GLY	conflict	UNP O66529
nD	62	ILE	VAL	conflict	UNP O66529
nD	97	TYR	PHE	conflict	UNP O66529
nD	102	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
nD	103	THR	-	expression tag	UNP O66529
nD	104	GLU	-	expression tag	UNP O66529
nD	105	HIS	-	expression tag	UNP O66529
nD	106	HIS	-	expression tag	UNP O66529
nD	107	HIS	-	expression tag	UNP O66529
nD	108	HIS	-	expression tag	UNP O66529
nD	109	LEU	-	expression tag	UNP O66529
nD	110	HIS	-	expression tag	UNP O66529
nD	111	GLY	-	expression tag	UNP O66529
nD	112	SER	-	expression tag	UNP O66529
nD	113	SER	-	expression tag	UNP O66529
oA	1	MET	-	initiating methionine	UNP O66529
oA	2	GLY	-	expression tag	UNP O66529
oA	3	ASN	-	expression tag	UNP O66529
oA	4	ALA	-	expression tag	UNP O66529
oA	5	ARG	-	expression tag	UNP O66529
oA	6	THR	-	expression tag	UNP O66529
oA	7	ARG	-	expression tag	UNP O66529
oA	8	ARG	-	expression tag	UNP O66529
oA	9	ARG	-	expression tag	UNP O66529
oA	10	GLU	-	expression tag	UNP O66529
oA	11	ARG	-	expression tag	UNP O66529
oA	12	ARG	-	expression tag	UNP O66529
oA	13	ALA	-	expression tag	UNP O66529
oA	14	GLU	-	expression tag	UNP O66529
oA	15	LYS	-	expression tag	UNP O66529
oA	16	GLN	-	expression tag	UNP O66529
oA	17	ALA	-	expression tag	UNP O66529
oA	18	GLN	-	expression tag	UNP O66529
oA	19	TRP	-	expression tag	UNP O66529
oA	20	LYS	-	expression tag	UNP O66529
oA	21	ALA	-	expression tag	UNP O66529
oA	22	ALA	-	expression tag	UNP O66529
oA	23	ASN	-	expression tag	UNP O66529
oA	24	ALA	-	expression tag	UNP O66529
oA	25	GLY	-	expression tag	UNP O66529
oA	26	ALA	-	expression tag	UNP O66529
oA	27	GLY	-	expression tag	UNP O66529
oA	28	ALA	-	expression tag	UNP O66529
oA	29	GLY	-	expression tag	UNP O66529
oA	30	ALA	-	expression tag	UNP O66529
oA	31	MET	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
oA	39	ASN	ILE	conflict	UNP O66529
oA	42	VAL	GLU	conflict	UNP O66529
oA	58	VAL	ILE	conflict	UNP O66529
oA	59	SER	THR	conflict	UNP O66529
oA	61	ASP	GLY	conflict	UNP O66529
oA	62	ILE	VAL	conflict	UNP O66529
oA	97	TYR	PHE	conflict	UNP O66529
oA	102	GLY	-	expression tag	UNP O66529
oA	103	THR	-	expression tag	UNP O66529
oA	104	GLU	-	expression tag	UNP O66529
oA	105	HIS	-	expression tag	UNP O66529
oA	106	HIS	-	expression tag	UNP O66529
oA	107	HIS	-	expression tag	UNP O66529
oA	108	HIS	-	expression tag	UNP O66529
oA	109	LEU	-	expression tag	UNP O66529
oA	110	HIS	-	expression tag	UNP O66529
oA	111	GLY	-	expression tag	UNP O66529
oA	112	SER	-	expression tag	UNP O66529
oA	113	SER	-	expression tag	UNP O66529
oB	1	MET	-	initiating methionine	UNP O66529
oB	2	GLY	-	expression tag	UNP O66529
oB	3	ASN	-	expression tag	UNP O66529
oB	4	ALA	-	expression tag	UNP O66529
oB	5	ARG	-	expression tag	UNP O66529
oB	6	THR	-	expression tag	UNP O66529
oB	7	ARG	-	expression tag	UNP O66529
oB	8	ARG	-	expression tag	UNP O66529
oB	9	ARG	-	expression tag	UNP O66529
oB	10	GLU	-	expression tag	UNP O66529
oB	11	ARG	-	expression tag	UNP O66529
oB	12	ARG	-	expression tag	UNP O66529
oB	13	ALA	-	expression tag	UNP O66529
oB	14	GLU	-	expression tag	UNP O66529
oB	15	LYS	-	expression tag	UNP O66529
oB	16	GLN	-	expression tag	UNP O66529
oB	17	ALA	-	expression tag	UNP O66529
oB	18	GLN	-	expression tag	UNP O66529
oB	19	TRP	-	expression tag	UNP O66529
oB	20	LYS	-	expression tag	UNP O66529
oB	21	ALA	-	expression tag	UNP O66529
oB	22	ALA	-	expression tag	UNP O66529
oB	23	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
oB	24	ALA	-	expression tag	UNP O66529
oB	25	GLY	-	expression tag	UNP O66529
oB	26	ALA	-	expression tag	UNP O66529
oB	27	GLY	-	expression tag	UNP O66529
oB	28	ALA	-	expression tag	UNP O66529
oB	29	GLY	-	expression tag	UNP O66529
oB	30	ALA	-	expression tag	UNP O66529
oB	31	MET	-	expression tag	UNP O66529
oB	39	ASN	ILE	conflict	UNP O66529
oB	42	VAL	GLU	conflict	UNP O66529
oB	58	VAL	ILE	conflict	UNP O66529
oB	59	SER	THR	conflict	UNP O66529
oB	61	ASP	GLY	conflict	UNP O66529
oB	62	ILE	VAL	conflict	UNP O66529
oB	97	TYR	PHE	conflict	UNP O66529
oB	102	GLY	-	expression tag	UNP O66529
oB	103	THR	-	expression tag	UNP O66529
oB	104	GLU	-	expression tag	UNP O66529
oB	105	HIS	-	expression tag	UNP O66529
oB	106	HIS	-	expression tag	UNP O66529
oB	107	HIS	-	expression tag	UNP O66529
oB	108	HIS	-	expression tag	UNP O66529
oB	109	LEU	-	expression tag	UNP O66529
oB	110	HIS	-	expression tag	UNP O66529
oB	111	GLY	-	expression tag	UNP O66529
oB	112	SER	-	expression tag	UNP O66529
oB	113	SER	-	expression tag	UNP O66529
oC	1	MET	-	initiating methionine	UNP O66529
oC	2	GLY	-	expression tag	UNP O66529
oC	3	ASN	-	expression tag	UNP O66529
oC	4	ALA	-	expression tag	UNP O66529
oC	5	ARG	-	expression tag	UNP O66529
oC	6	THR	-	expression tag	UNP O66529
oC	7	ARG	-	expression tag	UNP O66529
oC	8	ARG	-	expression tag	UNP O66529
oC	9	ARG	-	expression tag	UNP O66529
oC	10	GLU	-	expression tag	UNP O66529
oC	11	ARG	-	expression tag	UNP O66529
oC	12	ARG	-	expression tag	UNP O66529
oC	13	ALA	-	expression tag	UNP O66529
oC	14	GLU	-	expression tag	UNP O66529
oC	15	LYS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
oC	16	GLN	-	expression tag	UNP O66529
oC	17	ALA	-	expression tag	UNP O66529
oC	18	GLN	-	expression tag	UNP O66529
oC	19	TRP	-	expression tag	UNP O66529
oC	20	LYS	-	expression tag	UNP O66529
oC	21	ALA	-	expression tag	UNP O66529
oC	22	ALA	-	expression tag	UNP O66529
oC	23	ASN	-	expression tag	UNP O66529
oC	24	ALA	-	expression tag	UNP O66529
oC	25	GLY	-	expression tag	UNP O66529
oC	26	ALA	-	expression tag	UNP O66529
oC	27	GLY	-	expression tag	UNP O66529
oC	28	ALA	-	expression tag	UNP O66529
oC	29	GLY	-	expression tag	UNP O66529
oC	30	ALA	-	expression tag	UNP O66529
oC	31	MET	-	expression tag	UNP O66529
oC	39	ASN	ILE	conflict	UNP O66529
oC	42	VAL	GLU	conflict	UNP O66529
oC	58	VAL	ILE	conflict	UNP O66529
oC	59	SER	THR	conflict	UNP O66529
oC	61	ASP	GLY	conflict	UNP O66529
oC	62	ILE	VAL	conflict	UNP O66529
oC	97	TYR	PHE	conflict	UNP O66529
oC	102	GLY	-	expression tag	UNP O66529
oC	103	THR	-	expression tag	UNP O66529
oC	104	GLU	-	expression tag	UNP O66529
oC	105	HIS	-	expression tag	UNP O66529
oC	106	HIS	-	expression tag	UNP O66529
oC	107	HIS	-	expression tag	UNP O66529
oC	108	HIS	-	expression tag	UNP O66529
oC	109	LEU	-	expression tag	UNP O66529
oC	110	HIS	-	expression tag	UNP O66529
oC	111	GLY	-	expression tag	UNP O66529
oC	112	SER	-	expression tag	UNP O66529
oC	113	SER	-	expression tag	UNP O66529
oD	1	MET	-	initiating methionine	UNP O66529
oD	2	GLY	-	expression tag	UNP O66529
oD	3	ASN	-	expression tag	UNP O66529
oD	4	ALA	-	expression tag	UNP O66529
oD	5	ARG	-	expression tag	UNP O66529
oD	6	THR	-	expression tag	UNP O66529
oD	7	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
oD	8	ARG	-	expression tag	UNP O66529
oD	9	ARG	-	expression tag	UNP O66529
oD	10	GLU	-	expression tag	UNP O66529
oD	11	ARG	-	expression tag	UNP O66529
oD	12	ARG	-	expression tag	UNP O66529
oD	13	ALA	-	expression tag	UNP O66529
oD	14	GLU	-	expression tag	UNP O66529
oD	15	LYS	-	expression tag	UNP O66529
oD	16	GLN	-	expression tag	UNP O66529
oD	17	ALA	-	expression tag	UNP O66529
oD	18	GLN	-	expression tag	UNP O66529
oD	19	TRP	-	expression tag	UNP O66529
oD	20	LYS	-	expression tag	UNP O66529
oD	21	ALA	-	expression tag	UNP O66529
oD	22	ALA	-	expression tag	UNP O66529
oD	23	ASN	-	expression tag	UNP O66529
oD	24	ALA	-	expression tag	UNP O66529
oD	25	GLY	-	expression tag	UNP O66529
oD	26	ALA	-	expression tag	UNP O66529
oD	27	GLY	-	expression tag	UNP O66529
oD	28	ALA	-	expression tag	UNP O66529
oD	29	GLY	-	expression tag	UNP O66529
oD	30	ALA	-	expression tag	UNP O66529
oD	31	MET	-	expression tag	UNP O66529
oD	39	ASN	ILE	conflict	UNP O66529
oD	42	VAL	GLU	conflict	UNP O66529
oD	58	VAL	ILE	conflict	UNP O66529
oD	59	SER	THR	conflict	UNP O66529
oD	61	ASP	GLY	conflict	UNP O66529
oD	62	ILE	VAL	conflict	UNP O66529
oD	97	TYR	PHE	conflict	UNP O66529
oD	102	GLY	-	expression tag	UNP O66529
oD	103	THR	-	expression tag	UNP O66529
oD	104	GLU	-	expression tag	UNP O66529
oD	105	HIS	-	expression tag	UNP O66529
oD	106	HIS	-	expression tag	UNP O66529
oD	107	HIS	-	expression tag	UNP O66529
oD	108	HIS	-	expression tag	UNP O66529
oD	109	LEU	-	expression tag	UNP O66529
oD	110	HIS	-	expression tag	UNP O66529
oD	111	GLY	-	expression tag	UNP O66529
oD	112	SER	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
oD	113	SER	-	expression tag	UNP O66529
pA	1	MET	-	initiating methionine	UNP O66529
pA	2	GLY	-	expression tag	UNP O66529
pA	3	ASN	-	expression tag	UNP O66529
pA	4	ALA	-	expression tag	UNP O66529
pA	5	ARG	-	expression tag	UNP O66529
pA	6	THR	-	expression tag	UNP O66529
pA	7	ARG	-	expression tag	UNP O66529
pA	8	ARG	-	expression tag	UNP O66529
pA	9	ARG	-	expression tag	UNP O66529
pA	10	GLU	-	expression tag	UNP O66529
pA	11	ARG	-	expression tag	UNP O66529
pA	12	ARG	-	expression tag	UNP O66529
pA	13	ALA	-	expression tag	UNP O66529
pA	14	GLU	-	expression tag	UNP O66529
pA	15	LYS	-	expression tag	UNP O66529
pA	16	GLN	-	expression tag	UNP O66529
pA	17	ALA	-	expression tag	UNP O66529
pA	18	GLN	-	expression tag	UNP O66529
pA	19	TRP	-	expression tag	UNP O66529
pA	20	LYS	-	expression tag	UNP O66529
pA	21	ALA	-	expression tag	UNP O66529
pA	22	ALA	-	expression tag	UNP O66529
pA	23	ASN	-	expression tag	UNP O66529
pA	24	ALA	-	expression tag	UNP O66529
pA	25	GLY	-	expression tag	UNP O66529
pA	26	ALA	-	expression tag	UNP O66529
pA	27	GLY	-	expression tag	UNP O66529
pA	28	ALA	-	expression tag	UNP O66529
pA	29	GLY	-	expression tag	UNP O66529
pA	30	ALA	-	expression tag	UNP O66529
pA	31	MET	-	expression tag	UNP O66529
pA	39	ASN	ILE	conflict	UNP O66529
pA	42	VAL	GLU	conflict	UNP O66529
pA	58	VAL	ILE	conflict	UNP O66529
pA	59	SER	THR	conflict	UNP O66529
pA	61	ASP	GLY	conflict	UNP O66529
pA	62	ILE	VAL	conflict	UNP O66529
pA	97	TYR	PHE	conflict	UNP O66529
pA	102	GLY	-	expression tag	UNP O66529
pA	103	THR	-	expression tag	UNP O66529
pA	104	GLU	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
pA	105	HIS	-	expression tag	UNP O66529
pA	106	HIS	-	expression tag	UNP O66529
pA	107	HIS	-	expression tag	UNP O66529
pA	108	HIS	-	expression tag	UNP O66529
pA	109	LEU	-	expression tag	UNP O66529
pA	110	HIS	-	expression tag	UNP O66529
pA	111	GLY	-	expression tag	UNP O66529
pA	112	SER	-	expression tag	UNP O66529
pA	113	SER	-	expression tag	UNP O66529
pB	1	MET	-	initiating methionine	UNP O66529
pB	2	GLY	-	expression tag	UNP O66529
pB	3	ASN	-	expression tag	UNP O66529
pB	4	ALA	-	expression tag	UNP O66529
pB	5	ARG	-	expression tag	UNP O66529
pB	6	THR	-	expression tag	UNP O66529
pB	7	ARG	-	expression tag	UNP O66529
pB	8	ARG	-	expression tag	UNP O66529
pB	9	ARG	-	expression tag	UNP O66529
pB	10	GLU	-	expression tag	UNP O66529
pB	11	ARG	-	expression tag	UNP O66529
pB	12	ARG	-	expression tag	UNP O66529
pB	13	ALA	-	expression tag	UNP O66529
pB	14	GLU	-	expression tag	UNP O66529
pB	15	LYS	-	expression tag	UNP O66529
pB	16	GLN	-	expression tag	UNP O66529
pB	17	ALA	-	expression tag	UNP O66529
pB	18	GLN	-	expression tag	UNP O66529
pB	19	TRP	-	expression tag	UNP O66529
pB	20	LYS	-	expression tag	UNP O66529
pB	21	ALA	-	expression tag	UNP O66529
pB	22	ALA	-	expression tag	UNP O66529
pB	23	ASN	-	expression tag	UNP O66529
pB	24	ALA	-	expression tag	UNP O66529
pB	25	GLY	-	expression tag	UNP O66529
pB	26	ALA	-	expression tag	UNP O66529
pB	27	GLY	-	expression tag	UNP O66529
pB	28	ALA	-	expression tag	UNP O66529
pB	29	GLY	-	expression tag	UNP O66529
pB	30	ALA	-	expression tag	UNP O66529
pB	31	MET	-	expression tag	UNP O66529
pB	39	ASN	ILE	conflict	UNP O66529
pB	42	VAL	GLU	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
pB	58	VAL	ILE	conflict	UNP O66529
pB	59	SER	THR	conflict	UNP O66529
pB	61	ASP	GLY	conflict	UNP O66529
pB	62	ILE	VAL	conflict	UNP O66529
pB	97	TYR	PHE	conflict	UNP O66529
pB	102	GLY	-	expression tag	UNP O66529
pB	103	THR	-	expression tag	UNP O66529
pB	104	GLU	-	expression tag	UNP O66529
pB	105	HIS	-	expression tag	UNP O66529
pB	106	HIS	-	expression tag	UNP O66529
pB	107	HIS	-	expression tag	UNP O66529
pB	108	HIS	-	expression tag	UNP O66529
pB	109	LEU	-	expression tag	UNP O66529
pB	110	HIS	-	expression tag	UNP O66529
pB	111	GLY	-	expression tag	UNP O66529
pB	112	SER	-	expression tag	UNP O66529
pB	113	SER	-	expression tag	UNP O66529
pC	1	MET	-	initiating methionine	UNP O66529
pC	2	GLY	-	expression tag	UNP O66529
pC	3	ASN	-	expression tag	UNP O66529
pC	4	ALA	-	expression tag	UNP O66529
pC	5	ARG	-	expression tag	UNP O66529
pC	6	THR	-	expression tag	UNP O66529
pC	7	ARG	-	expression tag	UNP O66529
pC	8	ARG	-	expression tag	UNP O66529
pC	9	ARG	-	expression tag	UNP O66529
pC	10	GLU	-	expression tag	UNP O66529
pC	11	ARG	-	expression tag	UNP O66529
pC	12	ARG	-	expression tag	UNP O66529
pC	13	ALA	-	expression tag	UNP O66529
pC	14	GLU	-	expression tag	UNP O66529
pC	15	LYS	-	expression tag	UNP O66529
pC	16	GLN	-	expression tag	UNP O66529
pC	17	ALA	-	expression tag	UNP O66529
pC	18	GLN	-	expression tag	UNP O66529
pC	19	TRP	-	expression tag	UNP O66529
pC	20	LYS	-	expression tag	UNP O66529
pC	21	ALA	-	expression tag	UNP O66529
pC	22	ALA	-	expression tag	UNP O66529
pC	23	ASN	-	expression tag	UNP O66529
pC	24	ALA	-	expression tag	UNP O66529
pC	25	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
pC	26	ALA	-	expression tag	UNP O66529
pC	27	GLY	-	expression tag	UNP O66529
pC	28	ALA	-	expression tag	UNP O66529
pC	29	GLY	-	expression tag	UNP O66529
pC	30	ALA	-	expression tag	UNP O66529
pC	31	MET	-	expression tag	UNP O66529
pC	39	ASN	ILE	conflict	UNP O66529
pC	42	VAL	GLU	conflict	UNP O66529
pC	58	VAL	ILE	conflict	UNP O66529
pC	59	SER	THR	conflict	UNP O66529
pC	61	ASP	GLY	conflict	UNP O66529
pC	62	ILE	VAL	conflict	UNP O66529
pC	97	TYR	PHE	conflict	UNP O66529
pC	102	GLY	-	expression tag	UNP O66529
pC	103	THR	-	expression tag	UNP O66529
pC	104	GLU	-	expression tag	UNP O66529
pC	105	HIS	-	expression tag	UNP O66529
pC	106	HIS	-	expression tag	UNP O66529
pC	107	HIS	-	expression tag	UNP O66529
pC	108	HIS	-	expression tag	UNP O66529
pC	109	LEU	-	expression tag	UNP O66529
pC	110	HIS	-	expression tag	UNP O66529
pC	111	GLY	-	expression tag	UNP O66529
pC	112	SER	-	expression tag	UNP O66529
pC	113	SER	-	expression tag	UNP O66529
pD	1	MET	-	initiating methionine	UNP O66529
pD	2	GLY	-	expression tag	UNP O66529
pD	3	ASN	-	expression tag	UNP O66529
pD	4	ALA	-	expression tag	UNP O66529
pD	5	ARG	-	expression tag	UNP O66529
pD	6	THR	-	expression tag	UNP O66529
pD	7	ARG	-	expression tag	UNP O66529
pD	8	ARG	-	expression tag	UNP O66529
pD	9	ARG	-	expression tag	UNP O66529
pD	10	GLU	-	expression tag	UNP O66529
pD	11	ARG	-	expression tag	UNP O66529
pD	12	ARG	-	expression tag	UNP O66529
pD	13	ALA	-	expression tag	UNP O66529
pD	14	GLU	-	expression tag	UNP O66529
pD	15	LYS	-	expression tag	UNP O66529
pD	16	GLN	-	expression tag	UNP O66529
pD	17	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
pD	18	GLN	-	expression tag	UNP O66529
pD	19	TRP	-	expression tag	UNP O66529
pD	20	LYS	-	expression tag	UNP O66529
pD	21	ALA	-	expression tag	UNP O66529
pD	22	ALA	-	expression tag	UNP O66529
pD	23	ASN	-	expression tag	UNP O66529
pD	24	ALA	-	expression tag	UNP O66529
pD	25	GLY	-	expression tag	UNP O66529
pD	26	ALA	-	expression tag	UNP O66529
pD	27	GLY	-	expression tag	UNP O66529
pD	28	ALA	-	expression tag	UNP O66529
pD	29	GLY	-	expression tag	UNP O66529
pD	30	ALA	-	expression tag	UNP O66529
pD	31	MET	-	expression tag	UNP O66529
pD	39	ASN	ILE	conflict	UNP O66529
pD	42	VAL	GLU	conflict	UNP O66529
pD	58	VAL	ILE	conflict	UNP O66529
pD	59	SER	THR	conflict	UNP O66529
pD	61	ASP	GLY	conflict	UNP O66529
pD	62	ILE	VAL	conflict	UNP O66529
pD	97	TYR	PHE	conflict	UNP O66529
pD	102	GLY	-	expression tag	UNP O66529
pD	103	THR	-	expression tag	UNP O66529
pD	104	GLU	-	expression tag	UNP O66529
pD	105	HIS	-	expression tag	UNP O66529
pD	106	HIS	-	expression tag	UNP O66529
pD	107	HIS	-	expression tag	UNP O66529
pD	108	HIS	-	expression tag	UNP O66529
pD	109	LEU	-	expression tag	UNP O66529
pD	110	HIS	-	expression tag	UNP O66529
pD	111	GLY	-	expression tag	UNP O66529
pD	112	SER	-	expression tag	UNP O66529
pD	113	SER	-	expression tag	UNP O66529
qA	1	MET	-	initiating methionine	UNP O66529
qA	2	GLY	-	expression tag	UNP O66529
qA	3	ASN	-	expression tag	UNP O66529
qA	4	ALA	-	expression tag	UNP O66529
qA	5	ARG	-	expression tag	UNP O66529
qA	6	THR	-	expression tag	UNP O66529
qA	7	ARG	-	expression tag	UNP O66529
qA	8	ARG	-	expression tag	UNP O66529
qA	9	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
qA	10	GLU	-	expression tag	UNP O66529
qA	11	ARG	-	expression tag	UNP O66529
qA	12	ARG	-	expression tag	UNP O66529
qA	13	ALA	-	expression tag	UNP O66529
qA	14	GLU	-	expression tag	UNP O66529
qA	15	LYS	-	expression tag	UNP O66529
qA	16	GLN	-	expression tag	UNP O66529
qA	17	ALA	-	expression tag	UNP O66529
qA	18	GLN	-	expression tag	UNP O66529
qA	19	TRP	-	expression tag	UNP O66529
qA	20	LYS	-	expression tag	UNP O66529
qA	21	ALA	-	expression tag	UNP O66529
qA	22	ALA	-	expression tag	UNP O66529
qA	23	ASN	-	expression tag	UNP O66529
qA	24	ALA	-	expression tag	UNP O66529
qA	25	GLY	-	expression tag	UNP O66529
qA	26	ALA	-	expression tag	UNP O66529
qA	27	GLY	-	expression tag	UNP O66529
qA	28	ALA	-	expression tag	UNP O66529
qA	29	GLY	-	expression tag	UNP O66529
qA	30	ALA	-	expression tag	UNP O66529
qA	31	MET	-	expression tag	UNP O66529
qA	39	ASN	ILE	conflict	UNP O66529
qA	42	VAL	GLU	conflict	UNP O66529
qA	58	VAL	ILE	conflict	UNP O66529
qA	59	SER	THR	conflict	UNP O66529
qA	61	ASP	GLY	conflict	UNP O66529
qA	62	ILE	VAL	conflict	UNP O66529
qA	97	TYR	PHE	conflict	UNP O66529
qA	102	GLY	-	expression tag	UNP O66529
qA	103	THR	-	expression tag	UNP O66529
qA	104	GLU	-	expression tag	UNP O66529
qA	105	HIS	-	expression tag	UNP O66529
qA	106	HIS	-	expression tag	UNP O66529
qA	107	HIS	-	expression tag	UNP O66529
qA	108	HIS	-	expression tag	UNP O66529
qA	109	LEU	-	expression tag	UNP O66529
qA	110	HIS	-	expression tag	UNP O66529
qA	111	GLY	-	expression tag	UNP O66529
qA	112	SER	-	expression tag	UNP O66529
qA	113	SER	-	expression tag	UNP O66529
qB	1	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
qB	2	GLY	-	expression tag	UNP O66529
qB	3	ASN	-	expression tag	UNP O66529
qB	4	ALA	-	expression tag	UNP O66529
qB	5	ARG	-	expression tag	UNP O66529
qB	6	THR	-	expression tag	UNP O66529
qB	7	ARG	-	expression tag	UNP O66529
qB	8	ARG	-	expression tag	UNP O66529
qB	9	ARG	-	expression tag	UNP O66529
qB	10	GLU	-	expression tag	UNP O66529
qB	11	ARG	-	expression tag	UNP O66529
qB	12	ARG	-	expression tag	UNP O66529
qB	13	ALA	-	expression tag	UNP O66529
qB	14	GLU	-	expression tag	UNP O66529
qB	15	LYS	-	expression tag	UNP O66529
qB	16	GLN	-	expression tag	UNP O66529
qB	17	ALA	-	expression tag	UNP O66529
qB	18	GLN	-	expression tag	UNP O66529
qB	19	TRP	-	expression tag	UNP O66529
qB	20	LYS	-	expression tag	UNP O66529
qB	21	ALA	-	expression tag	UNP O66529
qB	22	ALA	-	expression tag	UNP O66529
qB	23	ASN	-	expression tag	UNP O66529
qB	24	ALA	-	expression tag	UNP O66529
qB	25	GLY	-	expression tag	UNP O66529
qB	26	ALA	-	expression tag	UNP O66529
qB	27	GLY	-	expression tag	UNP O66529
qB	28	ALA	-	expression tag	UNP O66529
qB	29	GLY	-	expression tag	UNP O66529
qB	30	ALA	-	expression tag	UNP O66529
qB	31	MET	-	expression tag	UNP O66529
qB	39	ASN	ILE	conflict	UNP O66529
qB	42	VAL	GLU	conflict	UNP O66529
qB	58	VAL	ILE	conflict	UNP O66529
qB	59	SER	THR	conflict	UNP O66529
qB	61	ASP	GLY	conflict	UNP O66529
qB	62	ILE	VAL	conflict	UNP O66529
qB	97	TYR	PHE	conflict	UNP O66529
qB	102	GLY	-	expression tag	UNP O66529
qB	103	THR	-	expression tag	UNP O66529
qB	104	GLU	-	expression tag	UNP O66529
qB	105	HIS	-	expression tag	UNP O66529
qB	106	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
qB	107	HIS	-	expression tag	UNP O66529
qB	108	HIS	-	expression tag	UNP O66529
qB	109	LEU	-	expression tag	UNP O66529
qB	110	HIS	-	expression tag	UNP O66529
qB	111	GLY	-	expression tag	UNP O66529
qB	112	SER	-	expression tag	UNP O66529
qB	113	SER	-	expression tag	UNP O66529
qC	1	MET	-	initiating methionine	UNP O66529
qC	2	GLY	-	expression tag	UNP O66529
qC	3	ASN	-	expression tag	UNP O66529
qC	4	ALA	-	expression tag	UNP O66529
qC	5	ARG	-	expression tag	UNP O66529
qC	6	THR	-	expression tag	UNP O66529
qC	7	ARG	-	expression tag	UNP O66529
qC	8	ARG	-	expression tag	UNP O66529
qC	9	ARG	-	expression tag	UNP O66529
qC	10	GLU	-	expression tag	UNP O66529
qC	11	ARG	-	expression tag	UNP O66529
qC	12	ARG	-	expression tag	UNP O66529
qC	13	ALA	-	expression tag	UNP O66529
qC	14	GLU	-	expression tag	UNP O66529
qC	15	LYS	-	expression tag	UNP O66529
qC	16	GLN	-	expression tag	UNP O66529
qC	17	ALA	-	expression tag	UNP O66529
qC	18	GLN	-	expression tag	UNP O66529
qC	19	TRP	-	expression tag	UNP O66529
qC	20	LYS	-	expression tag	UNP O66529
qC	21	ALA	-	expression tag	UNP O66529
qC	22	ALA	-	expression tag	UNP O66529
qC	23	ASN	-	expression tag	UNP O66529
qC	24	ALA	-	expression tag	UNP O66529
qC	25	GLY	-	expression tag	UNP O66529
qC	26	ALA	-	expression tag	UNP O66529
qC	27	GLY	-	expression tag	UNP O66529
qC	28	ALA	-	expression tag	UNP O66529
qC	29	GLY	-	expression tag	UNP O66529
qC	30	ALA	-	expression tag	UNP O66529
qC	31	MET	-	expression tag	UNP O66529
qC	39	ASN	ILE	conflict	UNP O66529
qC	42	VAL	GLU	conflict	UNP O66529
qC	58	VAL	ILE	conflict	UNP O66529
qC	59	SER	THR	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
qC	61	ASP	GLY	conflict	UNP O66529
qC	62	ILE	VAL	conflict	UNP O66529
qC	97	TYR	PHE	conflict	UNP O66529
qC	102	GLY	-	expression tag	UNP O66529
qC	103	THR	-	expression tag	UNP O66529
qC	104	GLU	-	expression tag	UNP O66529
qC	105	HIS	-	expression tag	UNP O66529
qC	106	HIS	-	expression tag	UNP O66529
qC	107	HIS	-	expression tag	UNP O66529
qC	108	HIS	-	expression tag	UNP O66529
qC	109	LEU	-	expression tag	UNP O66529
qC	110	HIS	-	expression tag	UNP O66529
qC	111	GLY	-	expression tag	UNP O66529
qC	112	SER	-	expression tag	UNP O66529
qC	113	SER	-	expression tag	UNP O66529
qD	1	MET	-	initiating methionine	UNP O66529
qD	2	GLY	-	expression tag	UNP O66529
qD	3	ASN	-	expression tag	UNP O66529
qD	4	ALA	-	expression tag	UNP O66529
qD	5	ARG	-	expression tag	UNP O66529
qD	6	THR	-	expression tag	UNP O66529
qD	7	ARG	-	expression tag	UNP O66529
qD	8	ARG	-	expression tag	UNP O66529
qD	9	ARG	-	expression tag	UNP O66529
qD	10	GLU	-	expression tag	UNP O66529
qD	11	ARG	-	expression tag	UNP O66529
qD	12	ARG	-	expression tag	UNP O66529
qD	13	ALA	-	expression tag	UNP O66529
qD	14	GLU	-	expression tag	UNP O66529
qD	15	LYS	-	expression tag	UNP O66529
qD	16	GLN	-	expression tag	UNP O66529
qD	17	ALA	-	expression tag	UNP O66529
qD	18	GLN	-	expression tag	UNP O66529
qD	19	TRP	-	expression tag	UNP O66529
qD	20	LYS	-	expression tag	UNP O66529
qD	21	ALA	-	expression tag	UNP O66529
qD	22	ALA	-	expression tag	UNP O66529
qD	23	ASN	-	expression tag	UNP O66529
qD	24	ALA	-	expression tag	UNP O66529
qD	25	GLY	-	expression tag	UNP O66529
qD	26	ALA	-	expression tag	UNP O66529
qD	27	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
qD	28	ALA	-	expression tag	UNP O66529
qD	29	GLY	-	expression tag	UNP O66529
qD	30	ALA	-	expression tag	UNP O66529
qD	31	MET	-	expression tag	UNP O66529
qD	39	ASN	ILE	conflict	UNP O66529
qD	42	VAL	GLU	conflict	UNP O66529
qD	58	VAL	ILE	conflict	UNP O66529
qD	59	SER	THR	conflict	UNP O66529
qD	61	ASP	GLY	conflict	UNP O66529
qD	62	ILE	VAL	conflict	UNP O66529
qD	97	TYR	PHE	conflict	UNP O66529
qD	102	GLY	-	expression tag	UNP O66529
qD	103	THR	-	expression tag	UNP O66529
qD	104	GLU	-	expression tag	UNP O66529
qD	105	HIS	-	expression tag	UNP O66529
qD	106	HIS	-	expression tag	UNP O66529
qD	107	HIS	-	expression tag	UNP O66529
qD	108	HIS	-	expression tag	UNP O66529
qD	109	LEU	-	expression tag	UNP O66529
qD	110	HIS	-	expression tag	UNP O66529
qD	111	GLY	-	expression tag	UNP O66529
qD	112	SER	-	expression tag	UNP O66529
qD	113	SER	-	expression tag	UNP O66529
rA	1	MET	-	initiating methionine	UNP O66529
rA	2	GLY	-	expression tag	UNP O66529
rA	3	ASN	-	expression tag	UNP O66529
rA	4	ALA	-	expression tag	UNP O66529
rA	5	ARG	-	expression tag	UNP O66529
rA	6	THR	-	expression tag	UNP O66529
rA	7	ARG	-	expression tag	UNP O66529
rA	8	ARG	-	expression tag	UNP O66529
rA	9	ARG	-	expression tag	UNP O66529
rA	10	GLU	-	expression tag	UNP O66529
rA	11	ARG	-	expression tag	UNP O66529
rA	12	ARG	-	expression tag	UNP O66529
rA	13	ALA	-	expression tag	UNP O66529
rA	14	GLU	-	expression tag	UNP O66529
rA	15	LYS	-	expression tag	UNP O66529
rA	16	GLN	-	expression tag	UNP O66529
rA	17	ALA	-	expression tag	UNP O66529
rA	18	GLN	-	expression tag	UNP O66529
rA	19	TRP	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
rA	20	LYS	-	expression tag	UNP O66529
rA	21	ALA	-	expression tag	UNP O66529
rA	22	ALA	-	expression tag	UNP O66529
rA	23	ASN	-	expression tag	UNP O66529
rA	24	ALA	-	expression tag	UNP O66529
rA	25	GLY	-	expression tag	UNP O66529
rA	26	ALA	-	expression tag	UNP O66529
rA	27	GLY	-	expression tag	UNP O66529
rA	28	ALA	-	expression tag	UNP O66529
rA	29	GLY	-	expression tag	UNP O66529
rA	30	ALA	-	expression tag	UNP O66529
rA	31	MET	-	expression tag	UNP O66529
rA	39	ASN	ILE	conflict	UNP O66529
rA	42	VAL	GLU	conflict	UNP O66529
rA	58	VAL	ILE	conflict	UNP O66529
rA	59	SER	THR	conflict	UNP O66529
rA	61	ASP	GLY	conflict	UNP O66529
rA	62	ILE	VAL	conflict	UNP O66529
rA	97	TYR	PHE	conflict	UNP O66529
rA	102	GLY	-	expression tag	UNP O66529
rA	103	THR	-	expression tag	UNP O66529
rA	104	GLU	-	expression tag	UNP O66529
rA	105	HIS	-	expression tag	UNP O66529
rA	106	HIS	-	expression tag	UNP O66529
rA	107	HIS	-	expression tag	UNP O66529
rA	108	HIS	-	expression tag	UNP O66529
rA	109	LEU	-	expression tag	UNP O66529
rA	110	HIS	-	expression tag	UNP O66529
rA	111	GLY	-	expression tag	UNP O66529
rA	112	SER	-	expression tag	UNP O66529
rA	113	SER	-	expression tag	UNP O66529
rB	1	MET	-	initiating methionine	UNP O66529
rB	2	GLY	-	expression tag	UNP O66529
rB	3	ASN	-	expression tag	UNP O66529
rB	4	ALA	-	expression tag	UNP O66529
rB	5	ARG	-	expression tag	UNP O66529
rB	6	THR	-	expression tag	UNP O66529
rB	7	ARG	-	expression tag	UNP O66529
rB	8	ARG	-	expression tag	UNP O66529
rB	9	ARG	-	expression tag	UNP O66529
rB	10	GLU	-	expression tag	UNP O66529
rB	11	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
rB	12	ARG	-	expression tag	UNP O66529
rB	13	ALA	-	expression tag	UNP O66529
rB	14	GLU	-	expression tag	UNP O66529
rB	15	LYS	-	expression tag	UNP O66529
rB	16	GLN	-	expression tag	UNP O66529
rB	17	ALA	-	expression tag	UNP O66529
rB	18	GLN	-	expression tag	UNP O66529
rB	19	TRP	-	expression tag	UNP O66529
rB	20	LYS	-	expression tag	UNP O66529
rB	21	ALA	-	expression tag	UNP O66529
rB	22	ALA	-	expression tag	UNP O66529
rB	23	ASN	-	expression tag	UNP O66529
rB	24	ALA	-	expression tag	UNP O66529
rB	25	GLY	-	expression tag	UNP O66529
rB	26	ALA	-	expression tag	UNP O66529
rB	27	GLY	-	expression tag	UNP O66529
rB	28	ALA	-	expression tag	UNP O66529
rB	29	GLY	-	expression tag	UNP O66529
rB	30	ALA	-	expression tag	UNP O66529
rB	31	MET	-	expression tag	UNP O66529
rB	39	ASN	ILE	conflict	UNP O66529
rB	42	VAL	GLU	conflict	UNP O66529
rB	58	VAL	ILE	conflict	UNP O66529
rB	59	SER	THR	conflict	UNP O66529
rB	61	ASP	GLY	conflict	UNP O66529
rB	62	ILE	VAL	conflict	UNP O66529
rB	97	TYR	PHE	conflict	UNP O66529
rB	102	GLY	-	expression tag	UNP O66529
rB	103	THR	-	expression tag	UNP O66529
rB	104	GLU	-	expression tag	UNP O66529
rB	105	HIS	-	expression tag	UNP O66529
rB	106	HIS	-	expression tag	UNP O66529
rB	107	HIS	-	expression tag	UNP O66529
rB	108	HIS	-	expression tag	UNP O66529
rB	109	LEU	-	expression tag	UNP O66529
rB	110	HIS	-	expression tag	UNP O66529
rB	111	GLY	-	expression tag	UNP O66529
rB	112	SER	-	expression tag	UNP O66529
rB	113	SER	-	expression tag	UNP O66529
rC	1	MET	-	initiating methionine	UNP O66529
rC	2	GLY	-	expression tag	UNP O66529
rC	3	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
rC	4	ALA	-	expression tag	UNP O66529
rC	5	ARG	-	expression tag	UNP O66529
rC	6	THR	-	expression tag	UNP O66529
rC	7	ARG	-	expression tag	UNP O66529
rC	8	ARG	-	expression tag	UNP O66529
rC	9	ARG	-	expression tag	UNP O66529
rC	10	GLU	-	expression tag	UNP O66529
rC	11	ARG	-	expression tag	UNP O66529
rC	12	ARG	-	expression tag	UNP O66529
rC	13	ALA	-	expression tag	UNP O66529
rC	14	GLU	-	expression tag	UNP O66529
rC	15	LYS	-	expression tag	UNP O66529
rC	16	GLN	-	expression tag	UNP O66529
rC	17	ALA	-	expression tag	UNP O66529
rC	18	GLN	-	expression tag	UNP O66529
rC	19	TRP	-	expression tag	UNP O66529
rC	20	LYS	-	expression tag	UNP O66529
rC	21	ALA	-	expression tag	UNP O66529
rC	22	ALA	-	expression tag	UNP O66529
rC	23	ASN	-	expression tag	UNP O66529
rC	24	ALA	-	expression tag	UNP O66529
rC	25	GLY	-	expression tag	UNP O66529
rC	26	ALA	-	expression tag	UNP O66529
rC	27	GLY	-	expression tag	UNP O66529
rC	28	ALA	-	expression tag	UNP O66529
rC	29	GLY	-	expression tag	UNP O66529
rC	30	ALA	-	expression tag	UNP O66529
rC	31	MET	-	expression tag	UNP O66529
rC	39	ASN	ILE	conflict	UNP O66529
rC	42	VAL	GLU	conflict	UNP O66529
rC	58	VAL	ILE	conflict	UNP O66529
rC	59	SER	THR	conflict	UNP O66529
rC	61	ASP	GLY	conflict	UNP O66529
rC	62	ILE	VAL	conflict	UNP O66529
rC	97	TYR	PHE	conflict	UNP O66529
rC	102	GLY	-	expression tag	UNP O66529
rC	103	THR	-	expression tag	UNP O66529
rC	104	GLU	-	expression tag	UNP O66529
rC	105	HIS	-	expression tag	UNP O66529
rC	106	HIS	-	expression tag	UNP O66529
rC	107	HIS	-	expression tag	UNP O66529
rC	108	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
rC	109	LEU	-	expression tag	UNP O66529
rC	110	HIS	-	expression tag	UNP O66529
rC	111	GLY	-	expression tag	UNP O66529
rC	112	SER	-	expression tag	UNP O66529
rC	113	SER	-	expression tag	UNP O66529
rD	1	MET	-	initiating methionine	UNP O66529
rD	2	GLY	-	expression tag	UNP O66529
rD	3	ASN	-	expression tag	UNP O66529
rD	4	ALA	-	expression tag	UNP O66529
rD	5	ARG	-	expression tag	UNP O66529
rD	6	THR	-	expression tag	UNP O66529
rD	7	ARG	-	expression tag	UNP O66529
rD	8	ARG	-	expression tag	UNP O66529
rD	9	ARG	-	expression tag	UNP O66529
rD	10	GLU	-	expression tag	UNP O66529
rD	11	ARG	-	expression tag	UNP O66529
rD	12	ARG	-	expression tag	UNP O66529
rD	13	ALA	-	expression tag	UNP O66529
rD	14	GLU	-	expression tag	UNP O66529
rD	15	LYS	-	expression tag	UNP O66529
rD	16	GLN	-	expression tag	UNP O66529
rD	17	ALA	-	expression tag	UNP O66529
rD	18	GLN	-	expression tag	UNP O66529
rD	19	TRP	-	expression tag	UNP O66529
rD	20	LYS	-	expression tag	UNP O66529
rD	21	ALA	-	expression tag	UNP O66529
rD	22	ALA	-	expression tag	UNP O66529
rD	23	ASN	-	expression tag	UNP O66529
rD	24	ALA	-	expression tag	UNP O66529
rD	25	GLY	-	expression tag	UNP O66529
rD	26	ALA	-	expression tag	UNP O66529
rD	27	GLY	-	expression tag	UNP O66529
rD	28	ALA	-	expression tag	UNP O66529
rD	29	GLY	-	expression tag	UNP O66529
rD	30	ALA	-	expression tag	UNP O66529
rD	31	MET	-	expression tag	UNP O66529
rD	39	ASN	ILE	conflict	UNP O66529
rD	42	VAL	GLU	conflict	UNP O66529
rD	58	VAL	ILE	conflict	UNP O66529
rD	59	SER	THR	conflict	UNP O66529
rD	61	ASP	GLY	conflict	UNP O66529
rD	62	ILE	VAL	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
rD	97	TYR	PHE	conflict	UNP O66529
rD	102	GLY	-	expression tag	UNP O66529
rD	103	THR	-	expression tag	UNP O66529
rD	104	GLU	-	expression tag	UNP O66529
rD	105	HIS	-	expression tag	UNP O66529
rD	106	HIS	-	expression tag	UNP O66529
rD	107	HIS	-	expression tag	UNP O66529
rD	108	HIS	-	expression tag	UNP O66529
rD	109	LEU	-	expression tag	UNP O66529
rD	110	HIS	-	expression tag	UNP O66529
rD	111	GLY	-	expression tag	UNP O66529
rD	112	SER	-	expression tag	UNP O66529
rD	113	SER	-	expression tag	UNP O66529
sA	1	MET	-	initiating methionine	UNP O66529
sA	2	GLY	-	expression tag	UNP O66529
sA	3	ASN	-	expression tag	UNP O66529
sA	4	ALA	-	expression tag	UNP O66529
sA	5	ARG	-	expression tag	UNP O66529
sA	6	THR	-	expression tag	UNP O66529
sA	7	ARG	-	expression tag	UNP O66529
sA	8	ARG	-	expression tag	UNP O66529
sA	9	ARG	-	expression tag	UNP O66529
sA	10	GLU	-	expression tag	UNP O66529
sA	11	ARG	-	expression tag	UNP O66529
sA	12	ARG	-	expression tag	UNP O66529
sA	13	ALA	-	expression tag	UNP O66529
sA	14	GLU	-	expression tag	UNP O66529
sA	15	LYS	-	expression tag	UNP O66529
sA	16	GLN	-	expression tag	UNP O66529
sA	17	ALA	-	expression tag	UNP O66529
sA	18	GLN	-	expression tag	UNP O66529
sA	19	TRP	-	expression tag	UNP O66529
sA	20	LYS	-	expression tag	UNP O66529
sA	21	ALA	-	expression tag	UNP O66529
sA	22	ALA	-	expression tag	UNP O66529
sA	23	ASN	-	expression tag	UNP O66529
sA	24	ALA	-	expression tag	UNP O66529
sA	25	GLY	-	expression tag	UNP O66529
sA	26	ALA	-	expression tag	UNP O66529
sA	27	GLY	-	expression tag	UNP O66529
sA	28	ALA	-	expression tag	UNP O66529
sA	29	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
sA	30	ALA	-	expression tag	UNP O66529
sA	31	MET	-	expression tag	UNP O66529
sA	39	ASN	ILE	conflict	UNP O66529
sA	42	VAL	GLU	conflict	UNP O66529
sA	58	VAL	ILE	conflict	UNP O66529
sA	59	SER	THR	conflict	UNP O66529
sA	61	ASP	GLY	conflict	UNP O66529
sA	62	ILE	VAL	conflict	UNP O66529
sA	97	TYR	PHE	conflict	UNP O66529
sA	102	GLY	-	expression tag	UNP O66529
sA	103	THR	-	expression tag	UNP O66529
sA	104	GLU	-	expression tag	UNP O66529
sA	105	HIS	-	expression tag	UNP O66529
sA	106	HIS	-	expression tag	UNP O66529
sA	107	HIS	-	expression tag	UNP O66529
sA	108	HIS	-	expression tag	UNP O66529
sA	109	LEU	-	expression tag	UNP O66529
sA	110	HIS	-	expression tag	UNP O66529
sA	111	GLY	-	expression tag	UNP O66529
sA	112	SER	-	expression tag	UNP O66529
sA	113	SER	-	expression tag	UNP O66529
sB	1	MET	-	initiating methionine	UNP O66529
sB	2	GLY	-	expression tag	UNP O66529
sB	3	ASN	-	expression tag	UNP O66529
sB	4	ALA	-	expression tag	UNP O66529
sB	5	ARG	-	expression tag	UNP O66529
sB	6	THR	-	expression tag	UNP O66529
sB	7	ARG	-	expression tag	UNP O66529
sB	8	ARG	-	expression tag	UNP O66529
sB	9	ARG	-	expression tag	UNP O66529
sB	10	GLU	-	expression tag	UNP O66529
sB	11	ARG	-	expression tag	UNP O66529
sB	12	ARG	-	expression tag	UNP O66529
sB	13	ALA	-	expression tag	UNP O66529
sB	14	GLU	-	expression tag	UNP O66529
sB	15	LYS	-	expression tag	UNP O66529
sB	16	GLN	-	expression tag	UNP O66529
sB	17	ALA	-	expression tag	UNP O66529
sB	18	GLN	-	expression tag	UNP O66529
sB	19	TRP	-	expression tag	UNP O66529
sB	20	LYS	-	expression tag	UNP O66529
sB	21	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
sB	22	ALA	-	expression tag	UNP O66529
sB	23	ASN	-	expression tag	UNP O66529
sB	24	ALA	-	expression tag	UNP O66529
sB	25	GLY	-	expression tag	UNP O66529
sB	26	ALA	-	expression tag	UNP O66529
sB	27	GLY	-	expression tag	UNP O66529
sB	28	ALA	-	expression tag	UNP O66529
sB	29	GLY	-	expression tag	UNP O66529
sB	30	ALA	-	expression tag	UNP O66529
sB	31	MET	-	expression tag	UNP O66529
sB	39	ASN	ILE	conflict	UNP O66529
sB	42	VAL	GLU	conflict	UNP O66529
sB	58	VAL	ILE	conflict	UNP O66529
sB	59	SER	THR	conflict	UNP O66529
sB	61	ASP	GLY	conflict	UNP O66529
sB	62	ILE	VAL	conflict	UNP O66529
sB	97	TYR	PHE	conflict	UNP O66529
sB	102	GLY	-	expression tag	UNP O66529
sB	103	THR	-	expression tag	UNP O66529
sB	104	GLU	-	expression tag	UNP O66529
sB	105	HIS	-	expression tag	UNP O66529
sB	106	HIS	-	expression tag	UNP O66529
sB	107	HIS	-	expression tag	UNP O66529
sB	108	HIS	-	expression tag	UNP O66529
sB	109	LEU	-	expression tag	UNP O66529
sB	110	HIS	-	expression tag	UNP O66529
sB	111	GLY	-	expression tag	UNP O66529
sB	112	SER	-	expression tag	UNP O66529
sB	113	SER	-	expression tag	UNP O66529
sC	1	MET	-	initiating methionine	UNP O66529
sC	2	GLY	-	expression tag	UNP O66529
sC	3	ASN	-	expression tag	UNP O66529
sC	4	ALA	-	expression tag	UNP O66529
sC	5	ARG	-	expression tag	UNP O66529
sC	6	THR	-	expression tag	UNP O66529
sC	7	ARG	-	expression tag	UNP O66529
sC	8	ARG	-	expression tag	UNP O66529
sC	9	ARG	-	expression tag	UNP O66529
sC	10	GLU	-	expression tag	UNP O66529
sC	11	ARG	-	expression tag	UNP O66529
sC	12	ARG	-	expression tag	UNP O66529
sC	13	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
sC	14	GLU	-	expression tag	UNP O66529
sC	15	LYS	-	expression tag	UNP O66529
sC	16	GLN	-	expression tag	UNP O66529
sC	17	ALA	-	expression tag	UNP O66529
sC	18	GLN	-	expression tag	UNP O66529
sC	19	TRP	-	expression tag	UNP O66529
sC	20	LYS	-	expression tag	UNP O66529
sC	21	ALA	-	expression tag	UNP O66529
sC	22	ALA	-	expression tag	UNP O66529
sC	23	ASN	-	expression tag	UNP O66529
sC	24	ALA	-	expression tag	UNP O66529
sC	25	GLY	-	expression tag	UNP O66529
sC	26	ALA	-	expression tag	UNP O66529
sC	27	GLY	-	expression tag	UNP O66529
sC	28	ALA	-	expression tag	UNP O66529
sC	29	GLY	-	expression tag	UNP O66529
sC	30	ALA	-	expression tag	UNP O66529
sC	31	MET	-	expression tag	UNP O66529
sC	39	ASN	ILE	conflict	UNP O66529
sC	42	VAL	GLU	conflict	UNP O66529
sC	58	VAL	ILE	conflict	UNP O66529
sC	59	SER	THR	conflict	UNP O66529
sC	61	ASP	GLY	conflict	UNP O66529
sC	62	ILE	VAL	conflict	UNP O66529
sC	97	TYR	PHE	conflict	UNP O66529
sC	102	GLY	-	expression tag	UNP O66529
sC	103	THR	-	expression tag	UNP O66529
sC	104	GLU	-	expression tag	UNP O66529
sC	105	HIS	-	expression tag	UNP O66529
sC	106	HIS	-	expression tag	UNP O66529
sC	107	HIS	-	expression tag	UNP O66529
sC	108	HIS	-	expression tag	UNP O66529
sC	109	LEU	-	expression tag	UNP O66529
sC	110	HIS	-	expression tag	UNP O66529
sC	111	GLY	-	expression tag	UNP O66529
sC	112	SER	-	expression tag	UNP O66529
sC	113	SER	-	expression tag	UNP O66529
sD	1	MET	-	initiating methionine	UNP O66529
sD	2	GLY	-	expression tag	UNP O66529
sD	3	ASN	-	expression tag	UNP O66529
sD	4	ALA	-	expression tag	UNP O66529
sD	5	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
sD	6	THR	-	expression tag	UNP O66529
sD	7	ARG	-	expression tag	UNP O66529
sD	8	ARG	-	expression tag	UNP O66529
sD	9	ARG	-	expression tag	UNP O66529
sD	10	GLU	-	expression tag	UNP O66529
sD	11	ARG	-	expression tag	UNP O66529
sD	12	ARG	-	expression tag	UNP O66529
sD	13	ALA	-	expression tag	UNP O66529
sD	14	GLU	-	expression tag	UNP O66529
sD	15	LYS	-	expression tag	UNP O66529
sD	16	GLN	-	expression tag	UNP O66529
sD	17	ALA	-	expression tag	UNP O66529
sD	18	GLN	-	expression tag	UNP O66529
sD	19	TRP	-	expression tag	UNP O66529
sD	20	LYS	-	expression tag	UNP O66529
sD	21	ALA	-	expression tag	UNP O66529
sD	22	ALA	-	expression tag	UNP O66529
sD	23	ASN	-	expression tag	UNP O66529
sD	24	ALA	-	expression tag	UNP O66529
sD	25	GLY	-	expression tag	UNP O66529
sD	26	ALA	-	expression tag	UNP O66529
sD	27	GLY	-	expression tag	UNP O66529
sD	28	ALA	-	expression tag	UNP O66529
sD	29	GLY	-	expression tag	UNP O66529
sD	30	ALA	-	expression tag	UNP O66529
sD	31	MET	-	expression tag	UNP O66529
sD	39	ASN	ILE	conflict	UNP O66529
sD	42	VAL	GLU	conflict	UNP O66529
sD	58	VAL	ILE	conflict	UNP O66529
sD	59	SER	THR	conflict	UNP O66529
sD	61	ASP	GLY	conflict	UNP O66529
sD	62	ILE	VAL	conflict	UNP O66529
sD	97	TYR	PHE	conflict	UNP O66529
sD	102	GLY	-	expression tag	UNP O66529
sD	103	THR	-	expression tag	UNP O66529
sD	104	GLU	-	expression tag	UNP O66529
sD	105	HIS	-	expression tag	UNP O66529
sD	106	HIS	-	expression tag	UNP O66529
sD	107	HIS	-	expression tag	UNP O66529
sD	108	HIS	-	expression tag	UNP O66529
sD	109	LEU	-	expression tag	UNP O66529
sD	110	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
sD	111	GLY	-	expression tag	UNP O66529
sD	112	SER	-	expression tag	UNP O66529
sD	113	SER	-	expression tag	UNP O66529
tA	1	MET	-	initiating methionine	UNP O66529
tA	2	GLY	-	expression tag	UNP O66529
tA	3	ASN	-	expression tag	UNP O66529
tA	4	ALA	-	expression tag	UNP O66529
tA	5	ARG	-	expression tag	UNP O66529
tA	6	THR	-	expression tag	UNP O66529
tA	7	ARG	-	expression tag	UNP O66529
tA	8	ARG	-	expression tag	UNP O66529
tA	9	ARG	-	expression tag	UNP O66529
tA	10	GLU	-	expression tag	UNP O66529
tA	11	ARG	-	expression tag	UNP O66529
tA	12	ARG	-	expression tag	UNP O66529
tA	13	ALA	-	expression tag	UNP O66529
tA	14	GLU	-	expression tag	UNP O66529
tA	15	LYS	-	expression tag	UNP O66529
tA	16	GLN	-	expression tag	UNP O66529
tA	17	ALA	-	expression tag	UNP O66529
tA	18	GLN	-	expression tag	UNP O66529
tA	19	TRP	-	expression tag	UNP O66529
tA	20	LYS	-	expression tag	UNP O66529
tA	21	ALA	-	expression tag	UNP O66529
tA	22	ALA	-	expression tag	UNP O66529
tA	23	ASN	-	expression tag	UNP O66529
tA	24	ALA	-	expression tag	UNP O66529
tA	25	GLY	-	expression tag	UNP O66529
tA	26	ALA	-	expression tag	UNP O66529
tA	27	GLY	-	expression tag	UNP O66529
tA	28	ALA	-	expression tag	UNP O66529
tA	29	GLY	-	expression tag	UNP O66529
tA	30	ALA	-	expression tag	UNP O66529
tA	31	MET	-	expression tag	UNP O66529
tA	39	ASN	ILE	conflict	UNP O66529
tA	42	VAL	GLU	conflict	UNP O66529
tA	58	VAL	ILE	conflict	UNP O66529
tA	59	SER	THR	conflict	UNP O66529
tA	61	ASP	GLY	conflict	UNP O66529
tA	62	ILE	VAL	conflict	UNP O66529
tA	97	TYR	PHE	conflict	UNP O66529
tA	102	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
tA	103	THR	-	expression tag	UNP O66529
tA	104	GLU	-	expression tag	UNP O66529
tA	105	HIS	-	expression tag	UNP O66529
tA	106	HIS	-	expression tag	UNP O66529
tA	107	HIS	-	expression tag	UNP O66529
tA	108	HIS	-	expression tag	UNP O66529
tA	109	LEU	-	expression tag	UNP O66529
tA	110	HIS	-	expression tag	UNP O66529
tA	111	GLY	-	expression tag	UNP O66529
tA	112	SER	-	expression tag	UNP O66529
tA	113	SER	-	expression tag	UNP O66529
tB	1	MET	-	initiating methionine	UNP O66529
tB	2	GLY	-	expression tag	UNP O66529
tB	3	ASN	-	expression tag	UNP O66529
tB	4	ALA	-	expression tag	UNP O66529
tB	5	ARG	-	expression tag	UNP O66529
tB	6	THR	-	expression tag	UNP O66529
tB	7	ARG	-	expression tag	UNP O66529
tB	8	ARG	-	expression tag	UNP O66529
tB	9	ARG	-	expression tag	UNP O66529
tB	10	GLU	-	expression tag	UNP O66529
tB	11	ARG	-	expression tag	UNP O66529
tB	12	ARG	-	expression tag	UNP O66529
tB	13	ALA	-	expression tag	UNP O66529
tB	14	GLU	-	expression tag	UNP O66529
tB	15	LYS	-	expression tag	UNP O66529
tB	16	GLN	-	expression tag	UNP O66529
tB	17	ALA	-	expression tag	UNP O66529
tB	18	GLN	-	expression tag	UNP O66529
tB	19	TRP	-	expression tag	UNP O66529
tB	20	LYS	-	expression tag	UNP O66529
tB	21	ALA	-	expression tag	UNP O66529
tB	22	ALA	-	expression tag	UNP O66529
tB	23	ASN	-	expression tag	UNP O66529
tB	24	ALA	-	expression tag	UNP O66529
tB	25	GLY	-	expression tag	UNP O66529
tB	26	ALA	-	expression tag	UNP O66529
tB	27	GLY	-	expression tag	UNP O66529
tB	28	ALA	-	expression tag	UNP O66529
tB	29	GLY	-	expression tag	UNP O66529
tB	30	ALA	-	expression tag	UNP O66529
tB	31	MET	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
tB	39	ASN	ILE	conflict	UNP O66529
tB	42	VAL	GLU	conflict	UNP O66529
tB	58	VAL	ILE	conflict	UNP O66529
tB	59	SER	THR	conflict	UNP O66529
tB	61	ASP	GLY	conflict	UNP O66529
tB	62	ILE	VAL	conflict	UNP O66529
tB	97	TYR	PHE	conflict	UNP O66529
tB	102	GLY	-	expression tag	UNP O66529
tB	103	THR	-	expression tag	UNP O66529
tB	104	GLU	-	expression tag	UNP O66529
tB	105	HIS	-	expression tag	UNP O66529
tB	106	HIS	-	expression tag	UNP O66529
tB	107	HIS	-	expression tag	UNP O66529
tB	108	HIS	-	expression tag	UNP O66529
tB	109	LEU	-	expression tag	UNP O66529
tB	110	HIS	-	expression tag	UNP O66529
tB	111	GLY	-	expression tag	UNP O66529
tB	112	SER	-	expression tag	UNP O66529
tB	113	SER	-	expression tag	UNP O66529
tC	1	MET	-	initiating methionine	UNP O66529
tC	2	GLY	-	expression tag	UNP O66529
tC	3	ASN	-	expression tag	UNP O66529
tC	4	ALA	-	expression tag	UNP O66529
tC	5	ARG	-	expression tag	UNP O66529
tC	6	THR	-	expression tag	UNP O66529
tC	7	ARG	-	expression tag	UNP O66529
tC	8	ARG	-	expression tag	UNP O66529
tC	9	ARG	-	expression tag	UNP O66529
tC	10	GLU	-	expression tag	UNP O66529
tC	11	ARG	-	expression tag	UNP O66529
tC	12	ARG	-	expression tag	UNP O66529
tC	13	ALA	-	expression tag	UNP O66529
tC	14	GLU	-	expression tag	UNP O66529
tC	15	LYS	-	expression tag	UNP O66529
tC	16	GLN	-	expression tag	UNP O66529
tC	17	ALA	-	expression tag	UNP O66529
tC	18	GLN	-	expression tag	UNP O66529
tC	19	TRP	-	expression tag	UNP O66529
tC	20	LYS	-	expression tag	UNP O66529
tC	21	ALA	-	expression tag	UNP O66529
tC	22	ALA	-	expression tag	UNP O66529
tC	23	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
tC	24	ALA	-	expression tag	UNP O66529
tC	25	GLY	-	expression tag	UNP O66529
tC	26	ALA	-	expression tag	UNP O66529
tC	27	GLY	-	expression tag	UNP O66529
tC	28	ALA	-	expression tag	UNP O66529
tC	29	GLY	-	expression tag	UNP O66529
tC	30	ALA	-	expression tag	UNP O66529
tC	31	MET	-	expression tag	UNP O66529
tC	39	ASN	ILE	conflict	UNP O66529
tC	42	VAL	GLU	conflict	UNP O66529
tC	58	VAL	ILE	conflict	UNP O66529
tC	59	SER	THR	conflict	UNP O66529
tC	61	ASP	GLY	conflict	UNP O66529
tC	62	ILE	VAL	conflict	UNP O66529
tC	97	TYR	PHE	conflict	UNP O66529
tC	102	GLY	-	expression tag	UNP O66529
tC	103	THR	-	expression tag	UNP O66529
tC	104	GLU	-	expression tag	UNP O66529
tC	105	HIS	-	expression tag	UNP O66529
tC	106	HIS	-	expression tag	UNP O66529
tC	107	HIS	-	expression tag	UNP O66529
tC	108	HIS	-	expression tag	UNP O66529
tC	109	LEU	-	expression tag	UNP O66529
tC	110	HIS	-	expression tag	UNP O66529
tC	111	GLY	-	expression tag	UNP O66529
tC	112	SER	-	expression tag	UNP O66529
tC	113	SER	-	expression tag	UNP O66529
tD	1	MET	-	initiating methionine	UNP O66529
tD	2	GLY	-	expression tag	UNP O66529
tD	3	ASN	-	expression tag	UNP O66529
tD	4	ALA	-	expression tag	UNP O66529
tD	5	ARG	-	expression tag	UNP O66529
tD	6	THR	-	expression tag	UNP O66529
tD	7	ARG	-	expression tag	UNP O66529
tD	8	ARG	-	expression tag	UNP O66529
tD	9	ARG	-	expression tag	UNP O66529
tD	10	GLU	-	expression tag	UNP O66529
tD	11	ARG	-	expression tag	UNP O66529
tD	12	ARG	-	expression tag	UNP O66529
tD	13	ALA	-	expression tag	UNP O66529
tD	14	GLU	-	expression tag	UNP O66529
tD	15	LYS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
tD	16	GLN	-	expression tag	UNP O66529
tD	17	ALA	-	expression tag	UNP O66529
tD	18	GLN	-	expression tag	UNP O66529
tD	19	TRP	-	expression tag	UNP O66529
tD	20	LYS	-	expression tag	UNP O66529
tD	21	ALA	-	expression tag	UNP O66529
tD	22	ALA	-	expression tag	UNP O66529
tD	23	ASN	-	expression tag	UNP O66529
tD	24	ALA	-	expression tag	UNP O66529
tD	25	GLY	-	expression tag	UNP O66529
tD	26	ALA	-	expression tag	UNP O66529
tD	27	GLY	-	expression tag	UNP O66529
tD	28	ALA	-	expression tag	UNP O66529
tD	29	GLY	-	expression tag	UNP O66529
tD	30	ALA	-	expression tag	UNP O66529
tD	31	MET	-	expression tag	UNP O66529
tD	39	ASN	ILE	conflict	UNP O66529
tD	42	VAL	GLU	conflict	UNP O66529
tD	58	VAL	ILE	conflict	UNP O66529
tD	59	SER	THR	conflict	UNP O66529
tD	61	ASP	GLY	conflict	UNP O66529
tD	62	ILE	VAL	conflict	UNP O66529
tD	97	TYR	PHE	conflict	UNP O66529
tD	102	GLY	-	expression tag	UNP O66529
tD	103	THR	-	expression tag	UNP O66529
tD	104	GLU	-	expression tag	UNP O66529
tD	105	HIS	-	expression tag	UNP O66529
tD	106	HIS	-	expression tag	UNP O66529
tD	107	HIS	-	expression tag	UNP O66529
tD	108	HIS	-	expression tag	UNP O66529
tD	109	LEU	-	expression tag	UNP O66529
tD	110	HIS	-	expression tag	UNP O66529
tD	111	GLY	-	expression tag	UNP O66529
tD	112	SER	-	expression tag	UNP O66529
tD	113	SER	-	expression tag	UNP O66529
uA	1	MET	-	initiating methionine	UNP O66529
uA	2	GLY	-	expression tag	UNP O66529
uA	3	ASN	-	expression tag	UNP O66529
uA	4	ALA	-	expression tag	UNP O66529
uA	5	ARG	-	expression tag	UNP O66529
uA	6	THR	-	expression tag	UNP O66529
uA	7	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
uA	8	ARG	-	expression tag	UNP O66529
uA	9	ARG	-	expression tag	UNP O66529
uA	10	GLU	-	expression tag	UNP O66529
uA	11	ARG	-	expression tag	UNP O66529
uA	12	ARG	-	expression tag	UNP O66529
uA	13	ALA	-	expression tag	UNP O66529
uA	14	GLU	-	expression tag	UNP O66529
uA	15	LYS	-	expression tag	UNP O66529
uA	16	GLN	-	expression tag	UNP O66529
uA	17	ALA	-	expression tag	UNP O66529
uA	18	GLN	-	expression tag	UNP O66529
uA	19	TRP	-	expression tag	UNP O66529
uA	20	LYS	-	expression tag	UNP O66529
uA	21	ALA	-	expression tag	UNP O66529
uA	22	ALA	-	expression tag	UNP O66529
uA	23	ASN	-	expression tag	UNP O66529
uA	24	ALA	-	expression tag	UNP O66529
uA	25	GLY	-	expression tag	UNP O66529
uA	26	ALA	-	expression tag	UNP O66529
uA	27	GLY	-	expression tag	UNP O66529
uA	28	ALA	-	expression tag	UNP O66529
uA	29	GLY	-	expression tag	UNP O66529
uA	30	ALA	-	expression tag	UNP O66529
uA	31	MET	-	expression tag	UNP O66529
uA	39	ASN	ILE	conflict	UNP O66529
uA	42	VAL	GLU	conflict	UNP O66529
uA	58	VAL	ILE	conflict	UNP O66529
uA	59	SER	THR	conflict	UNP O66529
uA	61	ASP	GLY	conflict	UNP O66529
uA	62	ILE	VAL	conflict	UNP O66529
uA	97	TYR	PHE	conflict	UNP O66529
uA	102	GLY	-	expression tag	UNP O66529
uA	103	THR	-	expression tag	UNP O66529
uA	104	GLU	-	expression tag	UNP O66529
uA	105	HIS	-	expression tag	UNP O66529
uA	106	HIS	-	expression tag	UNP O66529
uA	107	HIS	-	expression tag	UNP O66529
uA	108	HIS	-	expression tag	UNP O66529
uA	109	LEU	-	expression tag	UNP O66529
uA	110	HIS	-	expression tag	UNP O66529
uA	111	GLY	-	expression tag	UNP O66529
uA	112	SER	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
uA	113	SER	-	expression tag	UNP O66529
uB	1	MET	-	initiating methionine	UNP O66529
uB	2	GLY	-	expression tag	UNP O66529
uB	3	ASN	-	expression tag	UNP O66529
uB	4	ALA	-	expression tag	UNP O66529
uB	5	ARG	-	expression tag	UNP O66529
uB	6	THR	-	expression tag	UNP O66529
uB	7	ARG	-	expression tag	UNP O66529
uB	8	ARG	-	expression tag	UNP O66529
uB	9	ARG	-	expression tag	UNP O66529
uB	10	GLU	-	expression tag	UNP O66529
uB	11	ARG	-	expression tag	UNP O66529
uB	12	ARG	-	expression tag	UNP O66529
uB	13	ALA	-	expression tag	UNP O66529
uB	14	GLU	-	expression tag	UNP O66529
uB	15	LYS	-	expression tag	UNP O66529
uB	16	GLN	-	expression tag	UNP O66529
uB	17	ALA	-	expression tag	UNP O66529
uB	18	GLN	-	expression tag	UNP O66529
uB	19	TRP	-	expression tag	UNP O66529
uB	20	LYS	-	expression tag	UNP O66529
uB	21	ALA	-	expression tag	UNP O66529
uB	22	ALA	-	expression tag	UNP O66529
uB	23	ASN	-	expression tag	UNP O66529
uB	24	ALA	-	expression tag	UNP O66529
uB	25	GLY	-	expression tag	UNP O66529
uB	26	ALA	-	expression tag	UNP O66529
uB	27	GLY	-	expression tag	UNP O66529
uB	28	ALA	-	expression tag	UNP O66529
uB	29	GLY	-	expression tag	UNP O66529
uB	30	ALA	-	expression tag	UNP O66529
uB	31	MET	-	expression tag	UNP O66529
uB	39	ASN	ILE	conflict	UNP O66529
uB	42	VAL	GLU	conflict	UNP O66529
uB	58	VAL	ILE	conflict	UNP O66529
uB	59	SER	THR	conflict	UNP O66529
uB	61	ASP	GLY	conflict	UNP O66529
uB	62	ILE	VAL	conflict	UNP O66529
uB	97	TYR	PHE	conflict	UNP O66529
uB	102	GLY	-	expression tag	UNP O66529
uB	103	THR	-	expression tag	UNP O66529
uB	104	GLU	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
uB	105	HIS	-	expression tag	UNP O66529
uB	106	HIS	-	expression tag	UNP O66529
uB	107	HIS	-	expression tag	UNP O66529
uB	108	HIS	-	expression tag	UNP O66529
uB	109	LEU	-	expression tag	UNP O66529
uB	110	HIS	-	expression tag	UNP O66529
uB	111	GLY	-	expression tag	UNP O66529
uB	112	SER	-	expression tag	UNP O66529
uB	113	SER	-	expression tag	UNP O66529
uC	1	MET	-	initiating methionine	UNP O66529
uC	2	GLY	-	expression tag	UNP O66529
uC	3	ASN	-	expression tag	UNP O66529
uC	4	ALA	-	expression tag	UNP O66529
uC	5	ARG	-	expression tag	UNP O66529
uC	6	THR	-	expression tag	UNP O66529
uC	7	ARG	-	expression tag	UNP O66529
uC	8	ARG	-	expression tag	UNP O66529
uC	9	ARG	-	expression tag	UNP O66529
uC	10	GLU	-	expression tag	UNP O66529
uC	11	ARG	-	expression tag	UNP O66529
uC	12	ARG	-	expression tag	UNP O66529
uC	13	ALA	-	expression tag	UNP O66529
uC	14	GLU	-	expression tag	UNP O66529
uC	15	LYS	-	expression tag	UNP O66529
uC	16	GLN	-	expression tag	UNP O66529
uC	17	ALA	-	expression tag	UNP O66529
uC	18	GLN	-	expression tag	UNP O66529
uC	19	TRP	-	expression tag	UNP O66529
uC	20	LYS	-	expression tag	UNP O66529
uC	21	ALA	-	expression tag	UNP O66529
uC	22	ALA	-	expression tag	UNP O66529
uC	23	ASN	-	expression tag	UNP O66529
uC	24	ALA	-	expression tag	UNP O66529
uC	25	GLY	-	expression tag	UNP O66529
uC	26	ALA	-	expression tag	UNP O66529
uC	27	GLY	-	expression tag	UNP O66529
uC	28	ALA	-	expression tag	UNP O66529
uC	29	GLY	-	expression tag	UNP O66529
uC	30	ALA	-	expression tag	UNP O66529
uC	31	MET	-	expression tag	UNP O66529
uC	39	ASN	ILE	conflict	UNP O66529
uC	42	VAL	GLU	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
uC	58	VAL	ILE	conflict	UNP O66529
uC	59	SER	THR	conflict	UNP O66529
uC	61	ASP	GLY	conflict	UNP O66529
uC	62	ILE	VAL	conflict	UNP O66529
uC	97	TYR	PHE	conflict	UNP O66529
uC	102	GLY	-	expression tag	UNP O66529
uC	103	THR	-	expression tag	UNP O66529
uC	104	GLU	-	expression tag	UNP O66529
uC	105	HIS	-	expression tag	UNP O66529
uC	106	HIS	-	expression tag	UNP O66529
uC	107	HIS	-	expression tag	UNP O66529
uC	108	HIS	-	expression tag	UNP O66529
uC	109	LEU	-	expression tag	UNP O66529
uC	110	HIS	-	expression tag	UNP O66529
uC	111	GLY	-	expression tag	UNP O66529
uC	112	SER	-	expression tag	UNP O66529
uC	113	SER	-	expression tag	UNP O66529
uD	1	MET	-	initiating methionine	UNP O66529
uD	2	GLY	-	expression tag	UNP O66529
uD	3	ASN	-	expression tag	UNP O66529
uD	4	ALA	-	expression tag	UNP O66529
uD	5	ARG	-	expression tag	UNP O66529
uD	6	THR	-	expression tag	UNP O66529
uD	7	ARG	-	expression tag	UNP O66529
uD	8	ARG	-	expression tag	UNP O66529
uD	9	ARG	-	expression tag	UNP O66529
uD	10	GLU	-	expression tag	UNP O66529
uD	11	ARG	-	expression tag	UNP O66529
uD	12	ARG	-	expression tag	UNP O66529
uD	13	ALA	-	expression tag	UNP O66529
uD	14	GLU	-	expression tag	UNP O66529
uD	15	LYS	-	expression tag	UNP O66529
uD	16	GLN	-	expression tag	UNP O66529
uD	17	ALA	-	expression tag	UNP O66529
uD	18	GLN	-	expression tag	UNP O66529
uD	19	TRP	-	expression tag	UNP O66529
uD	20	LYS	-	expression tag	UNP O66529
uD	21	ALA	-	expression tag	UNP O66529
uD	22	ALA	-	expression tag	UNP O66529
uD	23	ASN	-	expression tag	UNP O66529
uD	24	ALA	-	expression tag	UNP O66529
uD	25	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
uD	26	ALA	-	expression tag	UNP O66529
uD	27	GLY	-	expression tag	UNP O66529
uD	28	ALA	-	expression tag	UNP O66529
uD	29	GLY	-	expression tag	UNP O66529
uD	30	ALA	-	expression tag	UNP O66529
uD	31	MET	-	expression tag	UNP O66529
uD	39	ASN	ILE	conflict	UNP O66529
uD	42	VAL	GLU	conflict	UNP O66529
uD	58	VAL	ILE	conflict	UNP O66529
uD	59	SER	THR	conflict	UNP O66529
uD	61	ASP	GLY	conflict	UNP O66529
uD	62	ILE	VAL	conflict	UNP O66529
uD	97	TYR	PHE	conflict	UNP O66529
uD	102	GLY	-	expression tag	UNP O66529
uD	103	THR	-	expression tag	UNP O66529
uD	104	GLU	-	expression tag	UNP O66529
uD	105	HIS	-	expression tag	UNP O66529
uD	106	HIS	-	expression tag	UNP O66529
uD	107	HIS	-	expression tag	UNP O66529
uD	108	HIS	-	expression tag	UNP O66529
uD	109	LEU	-	expression tag	UNP O66529
uD	110	HIS	-	expression tag	UNP O66529
uD	111	GLY	-	expression tag	UNP O66529
uD	112	SER	-	expression tag	UNP O66529
uD	113	SER	-	expression tag	UNP O66529
vA	1	MET	-	initiating methionine	UNP O66529
vA	2	GLY	-	expression tag	UNP O66529
vA	3	ASN	-	expression tag	UNP O66529
vA	4	ALA	-	expression tag	UNP O66529
vA	5	ARG	-	expression tag	UNP O66529
vA	6	THR	-	expression tag	UNP O66529
vA	7	ARG	-	expression tag	UNP O66529
vA	8	ARG	-	expression tag	UNP O66529
vA	9	ARG	-	expression tag	UNP O66529
vA	10	GLU	-	expression tag	UNP O66529
vA	11	ARG	-	expression tag	UNP O66529
vA	12	ARG	-	expression tag	UNP O66529
vA	13	ALA	-	expression tag	UNP O66529
vA	14	GLU	-	expression tag	UNP O66529
vA	15	LYS	-	expression tag	UNP O66529
vA	16	GLN	-	expression tag	UNP O66529
vA	17	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
vA	18	GLN	-	expression tag	UNP O66529
vA	19	TRP	-	expression tag	UNP O66529
vA	20	LYS	-	expression tag	UNP O66529
vA	21	ALA	-	expression tag	UNP O66529
vA	22	ALA	-	expression tag	UNP O66529
vA	23	ASN	-	expression tag	UNP O66529
vA	24	ALA	-	expression tag	UNP O66529
vA	25	GLY	-	expression tag	UNP O66529
vA	26	ALA	-	expression tag	UNP O66529
vA	27	GLY	-	expression tag	UNP O66529
vA	28	ALA	-	expression tag	UNP O66529
vA	29	GLY	-	expression tag	UNP O66529
vA	30	ALA	-	expression tag	UNP O66529
vA	31	MET	-	expression tag	UNP O66529
vA	39	ASN	ILE	conflict	UNP O66529
vA	42	VAL	GLU	conflict	UNP O66529
vA	58	VAL	ILE	conflict	UNP O66529
vA	59	SER	THR	conflict	UNP O66529
vA	61	ASP	GLY	conflict	UNP O66529
vA	62	ILE	VAL	conflict	UNP O66529
vA	97	TYR	PHE	conflict	UNP O66529
vA	102	GLY	-	expression tag	UNP O66529
vA	103	THR	-	expression tag	UNP O66529
vA	104	GLU	-	expression tag	UNP O66529
vA	105	HIS	-	expression tag	UNP O66529
vA	106	HIS	-	expression tag	UNP O66529
vA	107	HIS	-	expression tag	UNP O66529
vA	108	HIS	-	expression tag	UNP O66529
vA	109	LEU	-	expression tag	UNP O66529
vA	110	HIS	-	expression tag	UNP O66529
vA	111	GLY	-	expression tag	UNP O66529
vA	112	SER	-	expression tag	UNP O66529
vA	113	SER	-	expression tag	UNP O66529
vB	1	MET	-	initiating methionine	UNP O66529
vB	2	GLY	-	expression tag	UNP O66529
vB	3	ASN	-	expression tag	UNP O66529
vB	4	ALA	-	expression tag	UNP O66529
vB	5	ARG	-	expression tag	UNP O66529
vB	6	THR	-	expression tag	UNP O66529
vB	7	ARG	-	expression tag	UNP O66529
vB	8	ARG	-	expression tag	UNP O66529
vB	9	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
vB	10	GLU	-	expression tag	UNP O66529
vB	11	ARG	-	expression tag	UNP O66529
vB	12	ARG	-	expression tag	UNP O66529
vB	13	ALA	-	expression tag	UNP O66529
vB	14	GLU	-	expression tag	UNP O66529
vB	15	LYS	-	expression tag	UNP O66529
vB	16	GLN	-	expression tag	UNP O66529
vB	17	ALA	-	expression tag	UNP O66529
vB	18	GLN	-	expression tag	UNP O66529
vB	19	TRP	-	expression tag	UNP O66529
vB	20	LYS	-	expression tag	UNP O66529
vB	21	ALA	-	expression tag	UNP O66529
vB	22	ALA	-	expression tag	UNP O66529
vB	23	ASN	-	expression tag	UNP O66529
vB	24	ALA	-	expression tag	UNP O66529
vB	25	GLY	-	expression tag	UNP O66529
vB	26	ALA	-	expression tag	UNP O66529
vB	27	GLY	-	expression tag	UNP O66529
vB	28	ALA	-	expression tag	UNP O66529
vB	29	GLY	-	expression tag	UNP O66529
vB	30	ALA	-	expression tag	UNP O66529
vB	31	MET	-	expression tag	UNP O66529
vB	39	ASN	ILE	conflict	UNP O66529
vB	42	VAL	GLU	conflict	UNP O66529
vB	58	VAL	ILE	conflict	UNP O66529
vB	59	SER	THR	conflict	UNP O66529
vB	61	ASP	GLY	conflict	UNP O66529
vB	62	ILE	VAL	conflict	UNP O66529
vB	97	TYR	PHE	conflict	UNP O66529
vB	102	GLY	-	expression tag	UNP O66529
vB	103	THR	-	expression tag	UNP O66529
vB	104	GLU	-	expression tag	UNP O66529
vB	105	HIS	-	expression tag	UNP O66529
vB	106	HIS	-	expression tag	UNP O66529
vB	107	HIS	-	expression tag	UNP O66529
vB	108	HIS	-	expression tag	UNP O66529
vB	109	LEU	-	expression tag	UNP O66529
vB	110	HIS	-	expression tag	UNP O66529
vB	111	GLY	-	expression tag	UNP O66529
vB	112	SER	-	expression tag	UNP O66529
vB	113	SER	-	expression tag	UNP O66529
vC	1	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
vC	2	GLY	-	expression tag	UNP O66529
vC	3	ASN	-	expression tag	UNP O66529
vC	4	ALA	-	expression tag	UNP O66529
vC	5	ARG	-	expression tag	UNP O66529
vC	6	THR	-	expression tag	UNP O66529
vC	7	ARG	-	expression tag	UNP O66529
vC	8	ARG	-	expression tag	UNP O66529
vC	9	ARG	-	expression tag	UNP O66529
vC	10	GLU	-	expression tag	UNP O66529
vC	11	ARG	-	expression tag	UNP O66529
vC	12	ARG	-	expression tag	UNP O66529
vC	13	ALA	-	expression tag	UNP O66529
vC	14	GLU	-	expression tag	UNP O66529
vC	15	LYS	-	expression tag	UNP O66529
vC	16	GLN	-	expression tag	UNP O66529
vC	17	ALA	-	expression tag	UNP O66529
vC	18	GLN	-	expression tag	UNP O66529
vC	19	TRP	-	expression tag	UNP O66529
vC	20	LYS	-	expression tag	UNP O66529
vC	21	ALA	-	expression tag	UNP O66529
vC	22	ALA	-	expression tag	UNP O66529
vC	23	ASN	-	expression tag	UNP O66529
vC	24	ALA	-	expression tag	UNP O66529
vC	25	GLY	-	expression tag	UNP O66529
vC	26	ALA	-	expression tag	UNP O66529
vC	27	GLY	-	expression tag	UNP O66529
vC	28	ALA	-	expression tag	UNP O66529
vC	29	GLY	-	expression tag	UNP O66529
vC	30	ALA	-	expression tag	UNP O66529
vC	31	MET	-	expression tag	UNP O66529
vC	39	ASN	ILE	conflict	UNP O66529
vC	42	VAL	GLU	conflict	UNP O66529
vC	58	VAL	ILE	conflict	UNP O66529
vC	59	SER	THR	conflict	UNP O66529
vC	61	ASP	GLY	conflict	UNP O66529
vC	62	ILE	VAL	conflict	UNP O66529
vC	97	TYR	PHE	conflict	UNP O66529
vC	102	GLY	-	expression tag	UNP O66529
vC	103	THR	-	expression tag	UNP O66529
vC	104	GLU	-	expression tag	UNP O66529
vC	105	HIS	-	expression tag	UNP O66529
vC	106	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
vC	107	HIS	-	expression tag	UNP O66529
vC	108	HIS	-	expression tag	UNP O66529
vC	109	LEU	-	expression tag	UNP O66529
vC	110	HIS	-	expression tag	UNP O66529
vC	111	GLY	-	expression tag	UNP O66529
vC	112	SER	-	expression tag	UNP O66529
vC	113	SER	-	expression tag	UNP O66529
vD	1	MET	-	initiating methionine	UNP O66529
vD	2	GLY	-	expression tag	UNP O66529
vD	3	ASN	-	expression tag	UNP O66529
vD	4	ALA	-	expression tag	UNP O66529
vD	5	ARG	-	expression tag	UNP O66529
vD	6	THR	-	expression tag	UNP O66529
vD	7	ARG	-	expression tag	UNP O66529
vD	8	ARG	-	expression tag	UNP O66529
vD	9	ARG	-	expression tag	UNP O66529
vD	10	GLU	-	expression tag	UNP O66529
vD	11	ARG	-	expression tag	UNP O66529
vD	12	ARG	-	expression tag	UNP O66529
vD	13	ALA	-	expression tag	UNP O66529
vD	14	GLU	-	expression tag	UNP O66529
vD	15	LYS	-	expression tag	UNP O66529
vD	16	GLN	-	expression tag	UNP O66529
vD	17	ALA	-	expression tag	UNP O66529
vD	18	GLN	-	expression tag	UNP O66529
vD	19	TRP	-	expression tag	UNP O66529
vD	20	LYS	-	expression tag	UNP O66529
vD	21	ALA	-	expression tag	UNP O66529
vD	22	ALA	-	expression tag	UNP O66529
vD	23	ASN	-	expression tag	UNP O66529
vD	24	ALA	-	expression tag	UNP O66529
vD	25	GLY	-	expression tag	UNP O66529
vD	26	ALA	-	expression tag	UNP O66529
vD	27	GLY	-	expression tag	UNP O66529
vD	28	ALA	-	expression tag	UNP O66529
vD	29	GLY	-	expression tag	UNP O66529
vD	30	ALA	-	expression tag	UNP O66529
vD	31	MET	-	expression tag	UNP O66529
vD	39	ASN	ILE	conflict	UNP O66529
vD	42	VAL	GLU	conflict	UNP O66529
vD	58	VAL	ILE	conflict	UNP O66529
vD	59	SER	THR	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
vD	61	ASP	GLY	conflict	UNP O66529
vD	62	ILE	VAL	conflict	UNP O66529
vD	97	TYR	PHE	conflict	UNP O66529
vD	102	GLY	-	expression tag	UNP O66529
vD	103	THR	-	expression tag	UNP O66529
vD	104	GLU	-	expression tag	UNP O66529
vD	105	HIS	-	expression tag	UNP O66529
vD	106	HIS	-	expression tag	UNP O66529
vD	107	HIS	-	expression tag	UNP O66529
vD	108	HIS	-	expression tag	UNP O66529
vD	109	LEU	-	expression tag	UNP O66529
vD	110	HIS	-	expression tag	UNP O66529
vD	111	GLY	-	expression tag	UNP O66529
vD	112	SER	-	expression tag	UNP O66529
vD	113	SER	-	expression tag	UNP O66529
wA	1	MET	-	initiating methionine	UNP O66529
wA	2	GLY	-	expression tag	UNP O66529
wA	3	ASN	-	expression tag	UNP O66529
wA	4	ALA	-	expression tag	UNP O66529
wA	5	ARG	-	expression tag	UNP O66529
wA	6	THR	-	expression tag	UNP O66529
wA	7	ARG	-	expression tag	UNP O66529
wA	8	ARG	-	expression tag	UNP O66529
wA	9	ARG	-	expression tag	UNP O66529
wA	10	GLU	-	expression tag	UNP O66529
wA	11	ARG	-	expression tag	UNP O66529
wA	12	ARG	-	expression tag	UNP O66529
wA	13	ALA	-	expression tag	UNP O66529
wA	14	GLU	-	expression tag	UNP O66529
wA	15	LYS	-	expression tag	UNP O66529
wA	16	GLN	-	expression tag	UNP O66529
wA	17	ALA	-	expression tag	UNP O66529
wA	18	GLN	-	expression tag	UNP O66529
wA	19	TRP	-	expression tag	UNP O66529
wA	20	LYS	-	expression tag	UNP O66529
wA	21	ALA	-	expression tag	UNP O66529
wA	22	ALA	-	expression tag	UNP O66529
wA	23	ASN	-	expression tag	UNP O66529
wA	24	ALA	-	expression tag	UNP O66529
wA	25	GLY	-	expression tag	UNP O66529
wA	26	ALA	-	expression tag	UNP O66529
wA	27	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
wA	28	ALA	-	expression tag	UNP O66529
wA	29	GLY	-	expression tag	UNP O66529
wA	30	ALA	-	expression tag	UNP O66529
wA	31	MET	-	expression tag	UNP O66529
wA	39	ASN	ILE	conflict	UNP O66529
wA	42	VAL	GLU	conflict	UNP O66529
wA	58	VAL	ILE	conflict	UNP O66529
wA	59	SER	THR	conflict	UNP O66529
wA	61	ASP	GLY	conflict	UNP O66529
wA	62	ILE	VAL	conflict	UNP O66529
wA	97	TYR	PHE	conflict	UNP O66529
wA	102	GLY	-	expression tag	UNP O66529
wA	103	THR	-	expression tag	UNP O66529
wA	104	GLU	-	expression tag	UNP O66529
wA	105	HIS	-	expression tag	UNP O66529
wA	106	HIS	-	expression tag	UNP O66529
wA	107	HIS	-	expression tag	UNP O66529
wA	108	HIS	-	expression tag	UNP O66529
wA	109	LEU	-	expression tag	UNP O66529
wA	110	HIS	-	expression tag	UNP O66529
wA	111	GLY	-	expression tag	UNP O66529
wA	112	SER	-	expression tag	UNP O66529
wA	113	SER	-	expression tag	UNP O66529
wB	1	MET	-	initiating methionine	UNP O66529
wB	2	GLY	-	expression tag	UNP O66529
wB	3	ASN	-	expression tag	UNP O66529
wB	4	ALA	-	expression tag	UNP O66529
wB	5	ARG	-	expression tag	UNP O66529
wB	6	THR	-	expression tag	UNP O66529
wB	7	ARG	-	expression tag	UNP O66529
wB	8	ARG	-	expression tag	UNP O66529
wB	9	ARG	-	expression tag	UNP O66529
wB	10	GLU	-	expression tag	UNP O66529
wB	11	ARG	-	expression tag	UNP O66529
wB	12	ARG	-	expression tag	UNP O66529
wB	13	ALA	-	expression tag	UNP O66529
wB	14	GLU	-	expression tag	UNP O66529
wB	15	LYS	-	expression tag	UNP O66529
wB	16	GLN	-	expression tag	UNP O66529
wB	17	ALA	-	expression tag	UNP O66529
wB	18	GLN	-	expression tag	UNP O66529
wB	19	TRP	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
wB	20	LYS	-	expression tag	UNP O66529
wB	21	ALA	-	expression tag	UNP O66529
wB	22	ALA	-	expression tag	UNP O66529
wB	23	ASN	-	expression tag	UNP O66529
wB	24	ALA	-	expression tag	UNP O66529
wB	25	GLY	-	expression tag	UNP O66529
wB	26	ALA	-	expression tag	UNP O66529
wB	27	GLY	-	expression tag	UNP O66529
wB	28	ALA	-	expression tag	UNP O66529
wB	29	GLY	-	expression tag	UNP O66529
wB	30	ALA	-	expression tag	UNP O66529
wB	31	MET	-	expression tag	UNP O66529
wB	39	ASN	ILE	conflict	UNP O66529
wB	42	VAL	GLU	conflict	UNP O66529
wB	58	VAL	ILE	conflict	UNP O66529
wB	59	SER	THR	conflict	UNP O66529
wB	61	ASP	GLY	conflict	UNP O66529
wB	62	ILE	VAL	conflict	UNP O66529
wB	97	TYR	PHE	conflict	UNP O66529
wB	102	GLY	-	expression tag	UNP O66529
wB	103	THR	-	expression tag	UNP O66529
wB	104	GLU	-	expression tag	UNP O66529
wB	105	HIS	-	expression tag	UNP O66529
wB	106	HIS	-	expression tag	UNP O66529
wB	107	HIS	-	expression tag	UNP O66529
wB	108	HIS	-	expression tag	UNP O66529
wB	109	LEU	-	expression tag	UNP O66529
wB	110	HIS	-	expression tag	UNP O66529
wB	111	GLY	-	expression tag	UNP O66529
wB	112	SER	-	expression tag	UNP O66529
wB	113	SER	-	expression tag	UNP O66529
wC	1	MET	-	initiating methionine	UNP O66529
wC	2	GLY	-	expression tag	UNP O66529
wC	3	ASN	-	expression tag	UNP O66529
wC	4	ALA	-	expression tag	UNP O66529
wC	5	ARG	-	expression tag	UNP O66529
wC	6	THR	-	expression tag	UNP O66529
wC	7	ARG	-	expression tag	UNP O66529
wC	8	ARG	-	expression tag	UNP O66529
wC	9	ARG	-	expression tag	UNP O66529
wC	10	GLU	-	expression tag	UNP O66529
wC	11	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
wC	12	ARG	-	expression tag	UNP O66529
wC	13	ALA	-	expression tag	UNP O66529
wC	14	GLU	-	expression tag	UNP O66529
wC	15	LYS	-	expression tag	UNP O66529
wC	16	GLN	-	expression tag	UNP O66529
wC	17	ALA	-	expression tag	UNP O66529
wC	18	GLN	-	expression tag	UNP O66529
wC	19	TRP	-	expression tag	UNP O66529
wC	20	LYS	-	expression tag	UNP O66529
wC	21	ALA	-	expression tag	UNP O66529
wC	22	ALA	-	expression tag	UNP O66529
wC	23	ASN	-	expression tag	UNP O66529
wC	24	ALA	-	expression tag	UNP O66529
wC	25	GLY	-	expression tag	UNP O66529
wC	26	ALA	-	expression tag	UNP O66529
wC	27	GLY	-	expression tag	UNP O66529
wC	28	ALA	-	expression tag	UNP O66529
wC	29	GLY	-	expression tag	UNP O66529
wC	30	ALA	-	expression tag	UNP O66529
wC	31	MET	-	expression tag	UNP O66529
wC	39	ASN	ILE	conflict	UNP O66529
wC	42	VAL	GLU	conflict	UNP O66529
wC	58	VAL	ILE	conflict	UNP O66529
wC	59	SER	THR	conflict	UNP O66529
wC	61	ASP	GLY	conflict	UNP O66529
wC	62	ILE	VAL	conflict	UNP O66529
wC	97	TYR	PHE	conflict	UNP O66529
wC	102	GLY	-	expression tag	UNP O66529
wC	103	THR	-	expression tag	UNP O66529
wC	104	GLU	-	expression tag	UNP O66529
wC	105	HIS	-	expression tag	UNP O66529
wC	106	HIS	-	expression tag	UNP O66529
wC	107	HIS	-	expression tag	UNP O66529
wC	108	HIS	-	expression tag	UNP O66529
wC	109	LEU	-	expression tag	UNP O66529
wC	110	HIS	-	expression tag	UNP O66529
wC	111	GLY	-	expression tag	UNP O66529
wC	112	SER	-	expression tag	UNP O66529
wC	113	SER	-	expression tag	UNP O66529
wD	1	MET	-	initiating methionine	UNP O66529
wD	2	GLY	-	expression tag	UNP O66529
wD	3	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
wD	4	ALA	-	expression tag	UNP O66529
wD	5	ARG	-	expression tag	UNP O66529
wD	6	THR	-	expression tag	UNP O66529
wD	7	ARG	-	expression tag	UNP O66529
wD	8	ARG	-	expression tag	UNP O66529
wD	9	ARG	-	expression tag	UNP O66529
wD	10	GLU	-	expression tag	UNP O66529
wD	11	ARG	-	expression tag	UNP O66529
wD	12	ARG	-	expression tag	UNP O66529
wD	13	ALA	-	expression tag	UNP O66529
wD	14	GLU	-	expression tag	UNP O66529
wD	15	LYS	-	expression tag	UNP O66529
wD	16	GLN	-	expression tag	UNP O66529
wD	17	ALA	-	expression tag	UNP O66529
wD	18	GLN	-	expression tag	UNP O66529
wD	19	TRP	-	expression tag	UNP O66529
wD	20	LYS	-	expression tag	UNP O66529
wD	21	ALA	-	expression tag	UNP O66529
wD	22	ALA	-	expression tag	UNP O66529
wD	23	ASN	-	expression tag	UNP O66529
wD	24	ALA	-	expression tag	UNP O66529
wD	25	GLY	-	expression tag	UNP O66529
wD	26	ALA	-	expression tag	UNP O66529
wD	27	GLY	-	expression tag	UNP O66529
wD	28	ALA	-	expression tag	UNP O66529
wD	29	GLY	-	expression tag	UNP O66529
wD	30	ALA	-	expression tag	UNP O66529
wD	31	MET	-	expression tag	UNP O66529
wD	39	ASN	ILE	conflict	UNP O66529
wD	42	VAL	GLU	conflict	UNP O66529
wD	58	VAL	ILE	conflict	UNP O66529
wD	59	SER	THR	conflict	UNP O66529
wD	61	ASP	GLY	conflict	UNP O66529
wD	62	ILE	VAL	conflict	UNP O66529
wD	97	TYR	PHE	conflict	UNP O66529
wD	102	GLY	-	expression tag	UNP O66529
wD	103	THR	-	expression tag	UNP O66529
wD	104	GLU	-	expression tag	UNP O66529
wD	105	HIS	-	expression tag	UNP O66529
wD	106	HIS	-	expression tag	UNP O66529
wD	107	HIS	-	expression tag	UNP O66529
wD	108	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
wD	109	LEU	-	expression tag	UNP O66529
wD	110	HIS	-	expression tag	UNP O66529
wD	111	GLY	-	expression tag	UNP O66529
wD	112	SER	-	expression tag	UNP O66529
wD	113	SER	-	expression tag	UNP O66529
xA	1	MET	-	initiating methionine	UNP O66529
xA	2	GLY	-	expression tag	UNP O66529
xA	3	ASN	-	expression tag	UNP O66529
xA	4	ALA	-	expression tag	UNP O66529
xA	5	ARG	-	expression tag	UNP O66529
xA	6	THR	-	expression tag	UNP O66529
xA	7	ARG	-	expression tag	UNP O66529
xA	8	ARG	-	expression tag	UNP O66529
xA	9	ARG	-	expression tag	UNP O66529
xA	10	GLU	-	expression tag	UNP O66529
xA	11	ARG	-	expression tag	UNP O66529
xA	12	ARG	-	expression tag	UNP O66529
xA	13	ALA	-	expression tag	UNP O66529
xA	14	GLU	-	expression tag	UNP O66529
xA	15	LYS	-	expression tag	UNP O66529
xA	16	GLN	-	expression tag	UNP O66529
xA	17	ALA	-	expression tag	UNP O66529
xA	18	GLN	-	expression tag	UNP O66529
xA	19	TRP	-	expression tag	UNP O66529
xA	20	LYS	-	expression tag	UNP O66529
xA	21	ALA	-	expression tag	UNP O66529
xA	22	ALA	-	expression tag	UNP O66529
xA	23	ASN	-	expression tag	UNP O66529
xA	24	ALA	-	expression tag	UNP O66529
xA	25	GLY	-	expression tag	UNP O66529
xA	26	ALA	-	expression tag	UNP O66529
xA	27	GLY	-	expression tag	UNP O66529
xA	28	ALA	-	expression tag	UNP O66529
xA	29	GLY	-	expression tag	UNP O66529
xA	30	ALA	-	expression tag	UNP O66529
xA	31	MET	-	expression tag	UNP O66529
xA	39	ASN	ILE	conflict	UNP O66529
xA	42	VAL	GLU	conflict	UNP O66529
xA	58	VAL	ILE	conflict	UNP O66529
xA	59	SER	THR	conflict	UNP O66529
xA	61	ASP	GLY	conflict	UNP O66529
xA	62	ILE	VAL	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
xA	97	TYR	PHE	conflict	UNP O66529
xA	102	GLY	-	expression tag	UNP O66529
xA	103	THR	-	expression tag	UNP O66529
xA	104	GLU	-	expression tag	UNP O66529
xA	105	HIS	-	expression tag	UNP O66529
xA	106	HIS	-	expression tag	UNP O66529
xA	107	HIS	-	expression tag	UNP O66529
xA	108	HIS	-	expression tag	UNP O66529
xA	109	LEU	-	expression tag	UNP O66529
xA	110	HIS	-	expression tag	UNP O66529
xA	111	GLY	-	expression tag	UNP O66529
xA	112	SER	-	expression tag	UNP O66529
xA	113	SER	-	expression tag	UNP O66529
xB	1	MET	-	initiating methionine	UNP O66529
xB	2	GLY	-	expression tag	UNP O66529
xB	3	ASN	-	expression tag	UNP O66529
xB	4	ALA	-	expression tag	UNP O66529
xB	5	ARG	-	expression tag	UNP O66529
xB	6	THR	-	expression tag	UNP O66529
xB	7	ARG	-	expression tag	UNP O66529
xB	8	ARG	-	expression tag	UNP O66529
xB	9	ARG	-	expression tag	UNP O66529
xB	10	GLU	-	expression tag	UNP O66529
xB	11	ARG	-	expression tag	UNP O66529
xB	12	ARG	-	expression tag	UNP O66529
xB	13	ALA	-	expression tag	UNP O66529
xB	14	GLU	-	expression tag	UNP O66529
xB	15	LYS	-	expression tag	UNP O66529
xB	16	GLN	-	expression tag	UNP O66529
xB	17	ALA	-	expression tag	UNP O66529
xB	18	GLN	-	expression tag	UNP O66529
xB	19	TRP	-	expression tag	UNP O66529
xB	20	LYS	-	expression tag	UNP O66529
xB	21	ALA	-	expression tag	UNP O66529
xB	22	ALA	-	expression tag	UNP O66529
xB	23	ASN	-	expression tag	UNP O66529
xB	24	ALA	-	expression tag	UNP O66529
xB	25	GLY	-	expression tag	UNP O66529
xB	26	ALA	-	expression tag	UNP O66529
xB	27	GLY	-	expression tag	UNP O66529
xB	28	ALA	-	expression tag	UNP O66529
xB	29	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
xB	30	ALA	-	expression tag	UNP O66529
xB	31	MET	-	expression tag	UNP O66529
xB	39	ASN	ILE	conflict	UNP O66529
xB	42	VAL	GLU	conflict	UNP O66529
xB	58	VAL	ILE	conflict	UNP O66529
xB	59	SER	THR	conflict	UNP O66529
xB	61	ASP	GLY	conflict	UNP O66529
xB	62	ILE	VAL	conflict	UNP O66529
xB	97	TYR	PHE	conflict	UNP O66529
xB	102	GLY	-	expression tag	UNP O66529
xB	103	THR	-	expression tag	UNP O66529
xB	104	GLU	-	expression tag	UNP O66529
xB	105	HIS	-	expression tag	UNP O66529
xB	106	HIS	-	expression tag	UNP O66529
xB	107	HIS	-	expression tag	UNP O66529
xB	108	HIS	-	expression tag	UNP O66529
xB	109	LEU	-	expression tag	UNP O66529
xB	110	HIS	-	expression tag	UNP O66529
xB	111	GLY	-	expression tag	UNP O66529
xB	112	SER	-	expression tag	UNP O66529
xB	113	SER	-	expression tag	UNP O66529
xC	1	MET	-	initiating methionine	UNP O66529
xC	2	GLY	-	expression tag	UNP O66529
xC	3	ASN	-	expression tag	UNP O66529
xC	4	ALA	-	expression tag	UNP O66529
xC	5	ARG	-	expression tag	UNP O66529
xC	6	THR	-	expression tag	UNP O66529
xC	7	ARG	-	expression tag	UNP O66529
xC	8	ARG	-	expression tag	UNP O66529
xC	9	ARG	-	expression tag	UNP O66529
xC	10	GLU	-	expression tag	UNP O66529
xC	11	ARG	-	expression tag	UNP O66529
xC	12	ARG	-	expression tag	UNP O66529
xC	13	ALA	-	expression tag	UNP O66529
xC	14	GLU	-	expression tag	UNP O66529
xC	15	LYS	-	expression tag	UNP O66529
xC	16	GLN	-	expression tag	UNP O66529
xC	17	ALA	-	expression tag	UNP O66529
xC	18	GLN	-	expression tag	UNP O66529
xC	19	TRP	-	expression tag	UNP O66529
xC	20	LYS	-	expression tag	UNP O66529
xC	21	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
xC	22	ALA	-	expression tag	UNP O66529
xC	23	ASN	-	expression tag	UNP O66529
xC	24	ALA	-	expression tag	UNP O66529
xC	25	GLY	-	expression tag	UNP O66529
xC	26	ALA	-	expression tag	UNP O66529
xC	27	GLY	-	expression tag	UNP O66529
xC	28	ALA	-	expression tag	UNP O66529
xC	29	GLY	-	expression tag	UNP O66529
xC	30	ALA	-	expression tag	UNP O66529
xC	31	MET	-	expression tag	UNP O66529
xC	39	ASN	ILE	conflict	UNP O66529
xC	42	VAL	GLU	conflict	UNP O66529
xC	58	VAL	ILE	conflict	UNP O66529
xC	59	SER	THR	conflict	UNP O66529
xC	61	ASP	GLY	conflict	UNP O66529
xC	62	ILE	VAL	conflict	UNP O66529
xC	97	TYR	PHE	conflict	UNP O66529
xC	102	GLY	-	expression tag	UNP O66529
xC	103	THR	-	expression tag	UNP O66529
xC	104	GLU	-	expression tag	UNP O66529
xC	105	HIS	-	expression tag	UNP O66529
xC	106	HIS	-	expression tag	UNP O66529
xC	107	HIS	-	expression tag	UNP O66529
xC	108	HIS	-	expression tag	UNP O66529
xC	109	LEU	-	expression tag	UNP O66529
xC	110	HIS	-	expression tag	UNP O66529
xC	111	GLY	-	expression tag	UNP O66529
xC	112	SER	-	expression tag	UNP O66529
xC	113	SER	-	expression tag	UNP O66529
xD	1	MET	-	initiating methionine	UNP O66529
xD	2	GLY	-	expression tag	UNP O66529
xD	3	ASN	-	expression tag	UNP O66529
xD	4	ALA	-	expression tag	UNP O66529
xD	5	ARG	-	expression tag	UNP O66529
xD	6	THR	-	expression tag	UNP O66529
xD	7	ARG	-	expression tag	UNP O66529
xD	8	ARG	-	expression tag	UNP O66529
xD	9	ARG	-	expression tag	UNP O66529
xD	10	GLU	-	expression tag	UNP O66529
xD	11	ARG	-	expression tag	UNP O66529
xD	12	ARG	-	expression tag	UNP O66529
xD	13	ALA	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
xD	14	GLU	-	expression tag	UNP O66529
xD	15	LYS	-	expression tag	UNP O66529
xD	16	GLN	-	expression tag	UNP O66529
xD	17	ALA	-	expression tag	UNP O66529
xD	18	GLN	-	expression tag	UNP O66529
xD	19	TRP	-	expression tag	UNP O66529
xD	20	LYS	-	expression tag	UNP O66529
xD	21	ALA	-	expression tag	UNP O66529
xD	22	ALA	-	expression tag	UNP O66529
xD	23	ASN	-	expression tag	UNP O66529
xD	24	ALA	-	expression tag	UNP O66529
xD	25	GLY	-	expression tag	UNP O66529
xD	26	ALA	-	expression tag	UNP O66529
xD	27	GLY	-	expression tag	UNP O66529
xD	28	ALA	-	expression tag	UNP O66529
xD	29	GLY	-	expression tag	UNP O66529
xD	30	ALA	-	expression tag	UNP O66529
xD	31	MET	-	expression tag	UNP O66529
xD	39	ASN	ILE	conflict	UNP O66529
xD	42	VAL	GLU	conflict	UNP O66529
xD	58	VAL	ILE	conflict	UNP O66529
xD	59	SER	THR	conflict	UNP O66529
xD	61	ASP	GLY	conflict	UNP O66529
xD	62	ILE	VAL	conflict	UNP O66529
xD	97	TYR	PHE	conflict	UNP O66529
xD	102	GLY	-	expression tag	UNP O66529
xD	103	THR	-	expression tag	UNP O66529
xD	104	GLU	-	expression tag	UNP O66529
xD	105	HIS	-	expression tag	UNP O66529
xD	106	HIS	-	expression tag	UNP O66529
xD	107	HIS	-	expression tag	UNP O66529
xD	108	HIS	-	expression tag	UNP O66529
xD	109	LEU	-	expression tag	UNP O66529
xD	110	HIS	-	expression tag	UNP O66529
xD	111	GLY	-	expression tag	UNP O66529
xD	112	SER	-	expression tag	UNP O66529
xD	113	SER	-	expression tag	UNP O66529
yA	1	MET	-	initiating methionine	UNP O66529
yA	2	GLY	-	expression tag	UNP O66529
yA	3	ASN	-	expression tag	UNP O66529
yA	4	ALA	-	expression tag	UNP O66529
yA	5	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
yA	6	THR	-	expression tag	UNP O66529
yA	7	ARG	-	expression tag	UNP O66529
yA	8	ARG	-	expression tag	UNP O66529
yA	9	ARG	-	expression tag	UNP O66529
yA	10	GLU	-	expression tag	UNP O66529
yA	11	ARG	-	expression tag	UNP O66529
yA	12	ARG	-	expression tag	UNP O66529
yA	13	ALA	-	expression tag	UNP O66529
yA	14	GLU	-	expression tag	UNP O66529
yA	15	LYS	-	expression tag	UNP O66529
yA	16	GLN	-	expression tag	UNP O66529
yA	17	ALA	-	expression tag	UNP O66529
yA	18	GLN	-	expression tag	UNP O66529
yA	19	TRP	-	expression tag	UNP O66529
yA	20	LYS	-	expression tag	UNP O66529
yA	21	ALA	-	expression tag	UNP O66529
yA	22	ALA	-	expression tag	UNP O66529
yA	23	ASN	-	expression tag	UNP O66529
yA	24	ALA	-	expression tag	UNP O66529
yA	25	GLY	-	expression tag	UNP O66529
yA	26	ALA	-	expression tag	UNP O66529
yA	27	GLY	-	expression tag	UNP O66529
yA	28	ALA	-	expression tag	UNP O66529
yA	29	GLY	-	expression tag	UNP O66529
yA	30	ALA	-	expression tag	UNP O66529
yA	31	MET	-	expression tag	UNP O66529
yA	39	ASN	ILE	conflict	UNP O66529
yA	42	VAL	GLU	conflict	UNP O66529
yA	58	VAL	ILE	conflict	UNP O66529
yA	59	SER	THR	conflict	UNP O66529
yA	61	ASP	GLY	conflict	UNP O66529
yA	62	ILE	VAL	conflict	UNP O66529
yA	97	TYR	PHE	conflict	UNP O66529
yA	102	GLY	-	expression tag	UNP O66529
yA	103	THR	-	expression tag	UNP O66529
yA	104	GLU	-	expression tag	UNP O66529
yA	105	HIS	-	expression tag	UNP O66529
yA	106	HIS	-	expression tag	UNP O66529
yA	107	HIS	-	expression tag	UNP O66529
yA	108	HIS	-	expression tag	UNP O66529
yA	109	LEU	-	expression tag	UNP O66529
yA	110	HIS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
yA	111	GLY	-	expression tag	UNP O66529
yA	112	SER	-	expression tag	UNP O66529
yA	113	SER	-	expression tag	UNP O66529
yB	1	MET	-	initiating methionine	UNP O66529
yB	2	GLY	-	expression tag	UNP O66529
yB	3	ASN	-	expression tag	UNP O66529
yB	4	ALA	-	expression tag	UNP O66529
yB	5	ARG	-	expression tag	UNP O66529
yB	6	THR	-	expression tag	UNP O66529
yB	7	ARG	-	expression tag	UNP O66529
yB	8	ARG	-	expression tag	UNP O66529
yB	9	ARG	-	expression tag	UNP O66529
yB	10	GLU	-	expression tag	UNP O66529
yB	11	ARG	-	expression tag	UNP O66529
yB	12	ARG	-	expression tag	UNP O66529
yB	13	ALA	-	expression tag	UNP O66529
yB	14	GLU	-	expression tag	UNP O66529
yB	15	LYS	-	expression tag	UNP O66529
yB	16	GLN	-	expression tag	UNP O66529
yB	17	ALA	-	expression tag	UNP O66529
yB	18	GLN	-	expression tag	UNP O66529
yB	19	TRP	-	expression tag	UNP O66529
yB	20	LYS	-	expression tag	UNP O66529
yB	21	ALA	-	expression tag	UNP O66529
yB	22	ALA	-	expression tag	UNP O66529
yB	23	ASN	-	expression tag	UNP O66529
yB	24	ALA	-	expression tag	UNP O66529
yB	25	GLY	-	expression tag	UNP O66529
yB	26	ALA	-	expression tag	UNP O66529
yB	27	GLY	-	expression tag	UNP O66529
yB	28	ALA	-	expression tag	UNP O66529
yB	29	GLY	-	expression tag	UNP O66529
yB	30	ALA	-	expression tag	UNP O66529
yB	31	MET	-	expression tag	UNP O66529
yB	39	ASN	ILE	conflict	UNP O66529
yB	42	VAL	GLU	conflict	UNP O66529
yB	58	VAL	ILE	conflict	UNP O66529
yB	59	SER	THR	conflict	UNP O66529
yB	61	ASP	GLY	conflict	UNP O66529
yB	62	ILE	VAL	conflict	UNP O66529
yB	97	TYR	PHE	conflict	UNP O66529
yB	102	GLY	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
yB	103	THR	-	expression tag	UNP O66529
yB	104	GLU	-	expression tag	UNP O66529
yB	105	HIS	-	expression tag	UNP O66529
yB	106	HIS	-	expression tag	UNP O66529
yB	107	HIS	-	expression tag	UNP O66529
yB	108	HIS	-	expression tag	UNP O66529
yB	109	LEU	-	expression tag	UNP O66529
yB	110	HIS	-	expression tag	UNP O66529
yB	111	GLY	-	expression tag	UNP O66529
yB	112	SER	-	expression tag	UNP O66529
yB	113	SER	-	expression tag	UNP O66529
yC	1	MET	-	initiating methionine	UNP O66529
yC	2	GLY	-	expression tag	UNP O66529
yC	3	ASN	-	expression tag	UNP O66529
yC	4	ALA	-	expression tag	UNP O66529
yC	5	ARG	-	expression tag	UNP O66529
yC	6	THR	-	expression tag	UNP O66529
yC	7	ARG	-	expression tag	UNP O66529
yC	8	ARG	-	expression tag	UNP O66529
yC	9	ARG	-	expression tag	UNP O66529
yC	10	GLU	-	expression tag	UNP O66529
yC	11	ARG	-	expression tag	UNP O66529
yC	12	ARG	-	expression tag	UNP O66529
yC	13	ALA	-	expression tag	UNP O66529
yC	14	GLU	-	expression tag	UNP O66529
yC	15	LYS	-	expression tag	UNP O66529
yC	16	GLN	-	expression tag	UNP O66529
yC	17	ALA	-	expression tag	UNP O66529
yC	18	GLN	-	expression tag	UNP O66529
yC	19	TRP	-	expression tag	UNP O66529
yC	20	LYS	-	expression tag	UNP O66529
yC	21	ALA	-	expression tag	UNP O66529
yC	22	ALA	-	expression tag	UNP O66529
yC	23	ASN	-	expression tag	UNP O66529
yC	24	ALA	-	expression tag	UNP O66529
yC	25	GLY	-	expression tag	UNP O66529
yC	26	ALA	-	expression tag	UNP O66529
yC	27	GLY	-	expression tag	UNP O66529
yC	28	ALA	-	expression tag	UNP O66529
yC	29	GLY	-	expression tag	UNP O66529
yC	30	ALA	-	expression tag	UNP O66529
yC	31	MET	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
yC	39	ASN	ILE	conflict	UNP O66529
yC	42	VAL	GLU	conflict	UNP O66529
yC	58	VAL	ILE	conflict	UNP O66529
yC	59	SER	THR	conflict	UNP O66529
yC	61	ASP	GLY	conflict	UNP O66529
yC	62	ILE	VAL	conflict	UNP O66529
yC	97	TYR	PHE	conflict	UNP O66529
yC	102	GLY	-	expression tag	UNP O66529
yC	103	THR	-	expression tag	UNP O66529
yC	104	GLU	-	expression tag	UNP O66529
yC	105	HIS	-	expression tag	UNP O66529
yC	106	HIS	-	expression tag	UNP O66529
yC	107	HIS	-	expression tag	UNP O66529
yC	108	HIS	-	expression tag	UNP O66529
yC	109	LEU	-	expression tag	UNP O66529
yC	110	HIS	-	expression tag	UNP O66529
yC	111	GLY	-	expression tag	UNP O66529
yC	112	SER	-	expression tag	UNP O66529
yC	113	SER	-	expression tag	UNP O66529
yD	1	MET	-	initiating methionine	UNP O66529
yD	2	GLY	-	expression tag	UNP O66529
yD	3	ASN	-	expression tag	UNP O66529
yD	4	ALA	-	expression tag	UNP O66529
yD	5	ARG	-	expression tag	UNP O66529
yD	6	THR	-	expression tag	UNP O66529
yD	7	ARG	-	expression tag	UNP O66529
yD	8	ARG	-	expression tag	UNP O66529
yD	9	ARG	-	expression tag	UNP O66529
yD	10	GLU	-	expression tag	UNP O66529
yD	11	ARG	-	expression tag	UNP O66529
yD	12	ARG	-	expression tag	UNP O66529
yD	13	ALA	-	expression tag	UNP O66529
yD	14	GLU	-	expression tag	UNP O66529
yD	15	LYS	-	expression tag	UNP O66529
yD	16	GLN	-	expression tag	UNP O66529
yD	17	ALA	-	expression tag	UNP O66529
yD	18	GLN	-	expression tag	UNP O66529
yD	19	TRP	-	expression tag	UNP O66529
yD	20	LYS	-	expression tag	UNP O66529
yD	21	ALA	-	expression tag	UNP O66529
yD	22	ALA	-	expression tag	UNP O66529
yD	23	ASN	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
yD	24	ALA	-	expression tag	UNP O66529
yD	25	GLY	-	expression tag	UNP O66529
yD	26	ALA	-	expression tag	UNP O66529
yD	27	GLY	-	expression tag	UNP O66529
yD	28	ALA	-	expression tag	UNP O66529
yD	29	GLY	-	expression tag	UNP O66529
yD	30	ALA	-	expression tag	UNP O66529
yD	31	MET	-	expression tag	UNP O66529
yD	39	ASN	ILE	conflict	UNP O66529
yD	42	VAL	GLU	conflict	UNP O66529
yD	58	VAL	ILE	conflict	UNP O66529
yD	59	SER	THR	conflict	UNP O66529
yD	61	ASP	GLY	conflict	UNP O66529
yD	62	ILE	VAL	conflict	UNP O66529
yD	97	TYR	PHE	conflict	UNP O66529
yD	102	GLY	-	expression tag	UNP O66529
yD	103	THR	-	expression tag	UNP O66529
yD	104	GLU	-	expression tag	UNP O66529
yD	105	HIS	-	expression tag	UNP O66529
yD	106	HIS	-	expression tag	UNP O66529
yD	107	HIS	-	expression tag	UNP O66529
yD	108	HIS	-	expression tag	UNP O66529
yD	109	LEU	-	expression tag	UNP O66529
yD	110	HIS	-	expression tag	UNP O66529
yD	111	GLY	-	expression tag	UNP O66529
yD	112	SER	-	expression tag	UNP O66529
yD	113	SER	-	expression tag	UNP O66529
zA	1	MET	-	initiating methionine	UNP O66529
zA	2	GLY	-	expression tag	UNP O66529
zA	3	ASN	-	expression tag	UNP O66529
zA	4	ALA	-	expression tag	UNP O66529
zA	5	ARG	-	expression tag	UNP O66529
zA	6	THR	-	expression tag	UNP O66529
zA	7	ARG	-	expression tag	UNP O66529
zA	8	ARG	-	expression tag	UNP O66529
zA	9	ARG	-	expression tag	UNP O66529
zA	10	GLU	-	expression tag	UNP O66529
zA	11	ARG	-	expression tag	UNP O66529
zA	12	ARG	-	expression tag	UNP O66529
zA	13	ALA	-	expression tag	UNP O66529
zA	14	GLU	-	expression tag	UNP O66529
zA	15	LYS	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
zA	16	GLN	-	expression tag	UNP O66529
zA	17	ALA	-	expression tag	UNP O66529
zA	18	GLN	-	expression tag	UNP O66529
zA	19	TRP	-	expression tag	UNP O66529
zA	20	LYS	-	expression tag	UNP O66529
zA	21	ALA	-	expression tag	UNP O66529
zA	22	ALA	-	expression tag	UNP O66529
zA	23	ASN	-	expression tag	UNP O66529
zA	24	ALA	-	expression tag	UNP O66529
zA	25	GLY	-	expression tag	UNP O66529
zA	26	ALA	-	expression tag	UNP O66529
zA	27	GLY	-	expression tag	UNP O66529
zA	28	ALA	-	expression tag	UNP O66529
zA	29	GLY	-	expression tag	UNP O66529
zA	30	ALA	-	expression tag	UNP O66529
zA	31	MET	-	expression tag	UNP O66529
zA	39	ASN	ILE	conflict	UNP O66529
zA	42	VAL	GLU	conflict	UNP O66529
zA	58	VAL	ILE	conflict	UNP O66529
zA	59	SER	THR	conflict	UNP O66529
zA	61	ASP	GLY	conflict	UNP O66529
zA	62	ILE	VAL	conflict	UNP O66529
zA	97	TYR	PHE	conflict	UNP O66529
zA	102	GLY	-	expression tag	UNP O66529
zA	103	THR	-	expression tag	UNP O66529
zA	104	GLU	-	expression tag	UNP O66529
zA	105	HIS	-	expression tag	UNP O66529
zA	106	HIS	-	expression tag	UNP O66529
zA	107	HIS	-	expression tag	UNP O66529
zA	108	HIS	-	expression tag	UNP O66529
zA	109	LEU	-	expression tag	UNP O66529
zA	110	HIS	-	expression tag	UNP O66529
zA	111	GLY	-	expression tag	UNP O66529
zA	112	SER	-	expression tag	UNP O66529
zA	113	SER	-	expression tag	UNP O66529
zB	1	MET	-	initiating methionine	UNP O66529
zB	2	GLY	-	expression tag	UNP O66529
zB	3	ASN	-	expression tag	UNP O66529
zB	4	ALA	-	expression tag	UNP O66529
zB	5	ARG	-	expression tag	UNP O66529
zB	6	THR	-	expression tag	UNP O66529
zB	7	ARG	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
zB	8	ARG	-	expression tag	UNP O66529
zB	9	ARG	-	expression tag	UNP O66529
zB	10	GLU	-	expression tag	UNP O66529
zB	11	ARG	-	expression tag	UNP O66529
zB	12	ARG	-	expression tag	UNP O66529
zB	13	ALA	-	expression tag	UNP O66529
zB	14	GLU	-	expression tag	UNP O66529
zB	15	LYS	-	expression tag	UNP O66529
zB	16	GLN	-	expression tag	UNP O66529
zB	17	ALA	-	expression tag	UNP O66529
zB	18	GLN	-	expression tag	UNP O66529
zB	19	TRP	-	expression tag	UNP O66529
zB	20	LYS	-	expression tag	UNP O66529
zB	21	ALA	-	expression tag	UNP O66529
zB	22	ALA	-	expression tag	UNP O66529
zB	23	ASN	-	expression tag	UNP O66529
zB	24	ALA	-	expression tag	UNP O66529
zB	25	GLY	-	expression tag	UNP O66529
zB	26	ALA	-	expression tag	UNP O66529
zB	27	GLY	-	expression tag	UNP O66529
zB	28	ALA	-	expression tag	UNP O66529
zB	29	GLY	-	expression tag	UNP O66529
zB	30	ALA	-	expression tag	UNP O66529
zB	31	MET	-	expression tag	UNP O66529
zB	39	ASN	ILE	conflict	UNP O66529
zB	42	VAL	GLU	conflict	UNP O66529
zB	58	VAL	ILE	conflict	UNP O66529
zB	59	SER	THR	conflict	UNP O66529
zB	61	ASP	GLY	conflict	UNP O66529
zB	62	ILE	VAL	conflict	UNP O66529
zB	97	TYR	PHE	conflict	UNP O66529
zB	102	GLY	-	expression tag	UNP O66529
zB	103	THR	-	expression tag	UNP O66529
zB	104	GLU	-	expression tag	UNP O66529
zB	105	HIS	-	expression tag	UNP O66529
zB	106	HIS	-	expression tag	UNP O66529
zB	107	HIS	-	expression tag	UNP O66529
zB	108	HIS	-	expression tag	UNP O66529
zB	109	LEU	-	expression tag	UNP O66529
zB	110	HIS	-	expression tag	UNP O66529
zB	111	GLY	-	expression tag	UNP O66529
zB	112	SER	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
zB	113	SER	-	expression tag	UNP O66529
zC	1	MET	-	initiating methionine	UNP O66529
zC	2	GLY	-	expression tag	UNP O66529
zC	3	ASN	-	expression tag	UNP O66529
zC	4	ALA	-	expression tag	UNP O66529
zC	5	ARG	-	expression tag	UNP O66529
zC	6	THR	-	expression tag	UNP O66529
zC	7	ARG	-	expression tag	UNP O66529
zC	8	ARG	-	expression tag	UNP O66529
zC	9	ARG	-	expression tag	UNP O66529
zC	10	GLU	-	expression tag	UNP O66529
zC	11	ARG	-	expression tag	UNP O66529
zC	12	ARG	-	expression tag	UNP O66529
zC	13	ALA	-	expression tag	UNP O66529
zC	14	GLU	-	expression tag	UNP O66529
zC	15	LYS	-	expression tag	UNP O66529
zC	16	GLN	-	expression tag	UNP O66529
zC	17	ALA	-	expression tag	UNP O66529
zC	18	GLN	-	expression tag	UNP O66529
zC	19	TRP	-	expression tag	UNP O66529
zC	20	LYS	-	expression tag	UNP O66529
zC	21	ALA	-	expression tag	UNP O66529
zC	22	ALA	-	expression tag	UNP O66529
zC	23	ASN	-	expression tag	UNP O66529
zC	24	ALA	-	expression tag	UNP O66529
zC	25	GLY	-	expression tag	UNP O66529
zC	26	ALA	-	expression tag	UNP O66529
zC	27	GLY	-	expression tag	UNP O66529
zC	28	ALA	-	expression tag	UNP O66529
zC	29	GLY	-	expression tag	UNP O66529
zC	30	ALA	-	expression tag	UNP O66529
zC	31	MET	-	expression tag	UNP O66529
zC	39	ASN	ILE	conflict	UNP O66529
zC	42	VAL	GLU	conflict	UNP O66529
zC	58	VAL	ILE	conflict	UNP O66529
zC	59	SER	THR	conflict	UNP O66529
zC	61	ASP	GLY	conflict	UNP O66529
zC	62	ILE	VAL	conflict	UNP O66529
zC	97	TYR	PHE	conflict	UNP O66529
zC	102	GLY	-	expression tag	UNP O66529
zC	103	THR	-	expression tag	UNP O66529
zC	104	GLU	-	expression tag	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
zC	105	HIS	-	expression tag	UNP O66529
zC	106	HIS	-	expression tag	UNP O66529
zC	107	HIS	-	expression tag	UNP O66529
zC	108	HIS	-	expression tag	UNP O66529
zC	109	LEU	-	expression tag	UNP O66529
zC	110	HIS	-	expression tag	UNP O66529
zC	111	GLY	-	expression tag	UNP O66529
zC	112	SER	-	expression tag	UNP O66529
zC	113	SER	-	expression tag	UNP O66529
zD	1	MET	-	initiating methionine	UNP O66529
zD	2	GLY	-	expression tag	UNP O66529
zD	3	ASN	-	expression tag	UNP O66529
zD	4	ALA	-	expression tag	UNP O66529
zD	5	ARG	-	expression tag	UNP O66529
zD	6	THR	-	expression tag	UNP O66529
zD	7	ARG	-	expression tag	UNP O66529
zD	8	ARG	-	expression tag	UNP O66529
zD	9	ARG	-	expression tag	UNP O66529
zD	10	GLU	-	expression tag	UNP O66529
zD	11	ARG	-	expression tag	UNP O66529
zD	12	ARG	-	expression tag	UNP O66529
zD	13	ALA	-	expression tag	UNP O66529
zD	14	GLU	-	expression tag	UNP O66529
zD	15	LYS	-	expression tag	UNP O66529
zD	16	GLN	-	expression tag	UNP O66529
zD	17	ALA	-	expression tag	UNP O66529
zD	18	GLN	-	expression tag	UNP O66529
zD	19	TRP	-	expression tag	UNP O66529
zD	20	LYS	-	expression tag	UNP O66529
zD	21	ALA	-	expression tag	UNP O66529
zD	22	ALA	-	expression tag	UNP O66529
zD	23	ASN	-	expression tag	UNP O66529
zD	24	ALA	-	expression tag	UNP O66529
zD	25	GLY	-	expression tag	UNP O66529
zD	26	ALA	-	expression tag	UNP O66529
zD	27	GLY	-	expression tag	UNP O66529
zD	28	ALA	-	expression tag	UNP O66529
zD	29	GLY	-	expression tag	UNP O66529
zD	30	ALA	-	expression tag	UNP O66529
zD	31	MET	-	expression tag	UNP O66529
zD	39	ASN	ILE	conflict	UNP O66529
zD	42	VAL	GLU	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
zD	58	VAL	ILE	conflict	UNP O66529
zD	59	SER	THR	conflict	UNP O66529
zD	61	ASP	GLY	conflict	UNP O66529
zD	62	ILE	VAL	conflict	UNP O66529
zD	97	TYR	PHE	conflict	UNP O66529
zD	102	GLY	-	expression tag	UNP O66529
zD	103	THR	-	expression tag	UNP O66529
zD	104	GLU	-	expression tag	UNP O66529
zD	105	HIS	-	expression tag	UNP O66529
zD	106	HIS	-	expression tag	UNP O66529
zD	107	HIS	-	expression tag	UNP O66529
zD	108	HIS	-	expression tag	UNP O66529
zD	109	LEU	-	expression tag	UNP O66529
zD	110	HIS	-	expression tag	UNP O66529
zD	111	GLY	-	expression tag	UNP O66529
zD	112	SER	-	expression tag	UNP O66529
zD	113	SER	-	expression tag	UNP O66529

- Molecule 2 is a protein called 6,7-dimethyl-8-ribityllumazine synthase.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	0a	83	Total	C	N	O	S	0	0
			634	402	112	119	1		
2	0b	83	Total	C	N	O	S	0	0
			635	403	112	119	1		
2	0c	83	Total	C	N	O	S	0	0
			634	402	112	119	1		
2	0d	82	Total	C	N	O	S	0	0
			626	396	111	118	1		
2	1a	83	Total	C	N	O	S	0	0
			634	402	112	119	1		
2	1b	83	Total	C	N	O	S	0	0
			635	403	112	119	1		
2	1c	83	Total	C	N	O	S	0	0
			634	402	112	119	1		
2	1d	82	Total	C	N	O	S	0	0
			626	396	111	118	1		
2	2a	83	Total	C	N	O	S	0	0
			634	402	112	119	1		
2	2b	83	Total	C	N	O	S	0	0
			635	403	112	119	1		
2	2c	83	Total	C	N	O	S	0	0
			634	402	112	119	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	2d	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	3a	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	3b	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	3c	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	3d	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	4a	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	4b	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	4c	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	4d	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	5a	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	5b	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	5c	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	5d	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	6a	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	6b	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	6c	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	6d	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	7a	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	7b	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	7c	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	7d	82	Total 626	C 396	N 111	O 118	S 1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	Aa	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Ab	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	Ac	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Ad	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	Ba	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Bb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	Bc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Bd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	Ca	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Cb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	Cc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Cd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	Da	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Db	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	Dc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Dd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	Ea	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Eb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	Ec	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Ed	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	Fa	83	Total 634	C 402	N 112	O 119	S 1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	Fb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	Fc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Fd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	Ga	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Gb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	Gc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Gd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	Ha	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Hb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	Hc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Hd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	Ia	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Ib	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	Ic	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Id	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	Ja	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Jb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	Jc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Jd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	Ka	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Kb	83	Total 635	C 403	N 112	O 119	S 1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	Kc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Kd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	La	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Lb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	Lc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Ld	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	Ma	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Mb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	Mc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Md	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	Na	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Nb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	Nc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Nd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	Oa	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Ob	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	Oc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Od	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	Pa	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Pb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	Pc	83	Total 634	C 402	N 112	O 119	S 1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	Pd	82	Total	C	N	O	S	0	0
			626	396	111	118	1		
2	Qa	83	Total	C	N	O	S	0	0
			634	402	112	119	1		
2	Qb	83	Total	C	N	O	S	0	0
			635	403	112	119	1		
2	Qc	83	Total	C	N	O	S	0	0
			634	402	112	119	1		
2	Qd	82	Total	C	N	O	S	0	0
			626	396	111	118	1		
2	Ra	83	Total	C	N	O	S	0	0
			634	402	112	119	1		
2	Rb	83	Total	C	N	O	S	0	0
			635	403	112	119	1		
2	Rc	83	Total	C	N	O	S	0	0
			634	402	112	119	1		
2	Rd	82	Total	C	N	O	S	0	0
			626	396	111	118	1		
2	Sa	83	Total	C	N	O	S	0	0
			634	402	112	119	1		
2	Sb	83	Total	C	N	O	S	0	0
			635	403	112	119	1		
2	Sc	83	Total	C	N	O	S	0	0
			634	402	112	119	1		
2	Sd	82	Total	C	N	O	S	0	0
			626	396	111	118	1		
2	Ta	83	Total	C	N	O	S	0	0
			634	402	112	119	1		
2	Tb	83	Total	C	N	O	S	0	0
			635	403	112	119	1		
2	Tc	83	Total	C	N	O	S	0	0
			634	402	112	119	1		
2	Td	82	Total	C	N	O	S	0	0
			626	396	111	118	1		
2	Ua	83	Total	C	N	O	S	0	0
			634	402	112	119	1		
2	Ub	83	Total	C	N	O	S	0	0
			635	403	112	119	1		
2	Uc	83	Total	C	N	O	S	0	0
			634	402	112	119	1		
2	Ud	82	Total	C	N	O	S	0	0
			626	396	111	118	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	Va	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Vb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	Vc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Vd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	Wa	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Wb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	Wc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Wd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	Xa	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Xb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	Xc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Xd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	Ya	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Yb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	Yc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Yd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	Za	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Zb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	Zc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	Zd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	aa	83	Total 634	C 402	N 112	O 119	S 1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	ab	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	ac	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	ad	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	ba	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	bb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	bc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	bd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	ca	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	cb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	cc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	cd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	da	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	db	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	dc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	dd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	ea	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	eb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	ec	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	ed	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	fa	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	fb	83	Total 635	C 403	N 112	O 119	S 1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	fc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	fd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	ga	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	gb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	gc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	gd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	ha	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	hb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	hc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	hd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	ia	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	ib	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	ic	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	id	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	ja	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	jb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	jc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	jd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	ka	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	kb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	kc	83	Total 634	C 402	N 112	O 119	S 1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	kd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	la	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	lb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	lc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	ld	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	ma	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	mb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	mc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	md	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	na	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	nb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	nc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	nd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	oa	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	ob	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	oc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	od	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	pa	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	pb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	pc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	pd	82	Total 626	C 396	N 111	O 118	S 1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	qa	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	qb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	qc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	qd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	ra	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	rb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	rc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	rd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	sa	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	sb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	sc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	sd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	ta	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	tb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	tc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	td	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	ua	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	ub	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	uc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	ud	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	va	83	Total 634	C 402	N 112	O 119	S 1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	vb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	vc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	vd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	wa	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	wb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	wc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	wd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	xa	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	xb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	xc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	xd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	ya	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	yb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	yc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	yd	82	Total 626	C 396	N 111	O 118	S 1	0	0
2	za	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	zb	83	Total 635	C 403	N 112	O 119	S 1	0	0
2	zc	83	Total 634	C 402	N 112	O 119	S 1	0	0
2	zd	82	Total 626	C 396	N 111	O 118	S 1	0	0

There are 2400 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
0a	112	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
0a	113	GLY	-	expression tag	UNP O66529
0a	114	ILE	MET	conflict	UNP O66529
0a	115	GLU	GLN	conflict	UNP O66529
0a	138	THR	ALA	conflict	UNP O66529
0a	158	GLY	GLU	conflict	UNP O66529
0a	169	ALA	SER	conflict	UNP O66529
0a	177	ASP	GLY	conflict	UNP O66529
0a	191	PHE	ILE	conflict	UNP O66529
0a	193	ASP	VAL	conflict	UNP O66529
0b	112	MET	-	initiating methionine	UNP O66529
0b	113	GLY	-	expression tag	UNP O66529
0b	114	ILE	MET	conflict	UNP O66529
0b	115	GLU	GLN	conflict	UNP O66529
0b	138	THR	ALA	conflict	UNP O66529
0b	158	GLY	GLU	conflict	UNP O66529
0b	169	ALA	SER	conflict	UNP O66529
0b	177	ASP	GLY	conflict	UNP O66529
0b	191	PHE	ILE	conflict	UNP O66529
0b	193	ASP	VAL	conflict	UNP O66529
0c	112	MET	-	initiating methionine	UNP O66529
0c	113	GLY	-	expression tag	UNP O66529
0c	114	ILE	MET	conflict	UNP O66529
0c	115	GLU	GLN	conflict	UNP O66529
0c	138	THR	ALA	conflict	UNP O66529
0c	158	GLY	GLU	conflict	UNP O66529
0c	169	ALA	SER	conflict	UNP O66529
0c	177	ASP	GLY	conflict	UNP O66529
0c	191	PHE	ILE	conflict	UNP O66529
0c	193	ASP	VAL	conflict	UNP O66529
0d	112	MET	-	initiating methionine	UNP O66529
0d	113	GLY	-	expression tag	UNP O66529
0d	114	ILE	MET	conflict	UNP O66529
0d	115	GLU	GLN	conflict	UNP O66529
0d	138	THR	ALA	conflict	UNP O66529
0d	158	GLY	GLU	conflict	UNP O66529
0d	169	ALA	SER	conflict	UNP O66529
0d	177	ASP	GLY	conflict	UNP O66529
0d	191	PHE	ILE	conflict	UNP O66529
0d	193	ASP	VAL	conflict	UNP O66529
1a	112	MET	-	initiating methionine	UNP O66529
1a	113	GLY	-	expression tag	UNP O66529
1a	114	ILE	MET	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
1a	115	GLU	GLN	conflict	UNP O66529
1a	138	THR	ALA	conflict	UNP O66529
1a	158	GLY	GLU	conflict	UNP O66529
1a	169	ALA	SER	conflict	UNP O66529
1a	177	ASP	GLY	conflict	UNP O66529
1a	191	PHE	ILE	conflict	UNP O66529
1a	193	ASP	VAL	conflict	UNP O66529
1b	112	MET	-	initiating methionine	UNP O66529
1b	113	GLY	-	expression tag	UNP O66529
1b	114	ILE	MET	conflict	UNP O66529
1b	115	GLU	GLN	conflict	UNP O66529
1b	138	THR	ALA	conflict	UNP O66529
1b	158	GLY	GLU	conflict	UNP O66529
1b	169	ALA	SER	conflict	UNP O66529
1b	177	ASP	GLY	conflict	UNP O66529
1b	191	PHE	ILE	conflict	UNP O66529
1b	193	ASP	VAL	conflict	UNP O66529
1c	112	MET	-	initiating methionine	UNP O66529
1c	113	GLY	-	expression tag	UNP O66529
1c	114	ILE	MET	conflict	UNP O66529
1c	115	GLU	GLN	conflict	UNP O66529
1c	138	THR	ALA	conflict	UNP O66529
1c	158	GLY	GLU	conflict	UNP O66529
1c	169	ALA	SER	conflict	UNP O66529
1c	177	ASP	GLY	conflict	UNP O66529
1c	191	PHE	ILE	conflict	UNP O66529
1c	193	ASP	VAL	conflict	UNP O66529
1d	112	MET	-	initiating methionine	UNP O66529
1d	113	GLY	-	expression tag	UNP O66529
1d	114	ILE	MET	conflict	UNP O66529
1d	115	GLU	GLN	conflict	UNP O66529
1d	138	THR	ALA	conflict	UNP O66529
1d	158	GLY	GLU	conflict	UNP O66529
1d	169	ALA	SER	conflict	UNP O66529
1d	177	ASP	GLY	conflict	UNP O66529
1d	191	PHE	ILE	conflict	UNP O66529
1d	193	ASP	VAL	conflict	UNP O66529
2a	112	MET	-	initiating methionine	UNP O66529
2a	113	GLY	-	expression tag	UNP O66529
2a	114	ILE	MET	conflict	UNP O66529
2a	115	GLU	GLN	conflict	UNP O66529
2a	138	THR	ALA	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
2a	158	GLY	GLU	conflict	UNP O66529
2a	169	ALA	SER	conflict	UNP O66529
2a	177	ASP	GLY	conflict	UNP O66529
2a	191	PHE	ILE	conflict	UNP O66529
2a	193	ASP	VAL	conflict	UNP O66529
2b	112	MET	-	initiating methionine	UNP O66529
2b	113	GLY	-	expression tag	UNP O66529
2b	114	ILE	MET	conflict	UNP O66529
2b	115	GLU	GLN	conflict	UNP O66529
2b	138	THR	ALA	conflict	UNP O66529
2b	158	GLY	GLU	conflict	UNP O66529
2b	169	ALA	SER	conflict	UNP O66529
2b	177	ASP	GLY	conflict	UNP O66529
2b	191	PHE	ILE	conflict	UNP O66529
2b	193	ASP	VAL	conflict	UNP O66529
2c	112	MET	-	initiating methionine	UNP O66529
2c	113	GLY	-	expression tag	UNP O66529
2c	114	ILE	MET	conflict	UNP O66529
2c	115	GLU	GLN	conflict	UNP O66529
2c	138	THR	ALA	conflict	UNP O66529
2c	158	GLY	GLU	conflict	UNP O66529
2c	169	ALA	SER	conflict	UNP O66529
2c	177	ASP	GLY	conflict	UNP O66529
2c	191	PHE	ILE	conflict	UNP O66529
2c	193	ASP	VAL	conflict	UNP O66529
2d	112	MET	-	initiating methionine	UNP O66529
2d	113	GLY	-	expression tag	UNP O66529
2d	114	ILE	MET	conflict	UNP O66529
2d	115	GLU	GLN	conflict	UNP O66529
2d	138	THR	ALA	conflict	UNP O66529
2d	158	GLY	GLU	conflict	UNP O66529
2d	169	ALA	SER	conflict	UNP O66529
2d	177	ASP	GLY	conflict	UNP O66529
2d	191	PHE	ILE	conflict	UNP O66529
2d	193	ASP	VAL	conflict	UNP O66529
3a	112	MET	-	initiating methionine	UNP O66529
3a	113	GLY	-	expression tag	UNP O66529
3a	114	ILE	MET	conflict	UNP O66529
3a	115	GLU	GLN	conflict	UNP O66529
3a	138	THR	ALA	conflict	UNP O66529
3a	158	GLY	GLU	conflict	UNP O66529
3a	169	ALA	SER	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
3a	177	ASP	GLY	conflict	UNP O66529
3a	191	PHE	ILE	conflict	UNP O66529
3a	193	ASP	VAL	conflict	UNP O66529
3b	112	MET	-	initiating methionine	UNP O66529
3b	113	GLY	-	expression tag	UNP O66529
3b	114	ILE	MET	conflict	UNP O66529
3b	115	GLU	GLN	conflict	UNP O66529
3b	138	THR	ALA	conflict	UNP O66529
3b	158	GLY	GLU	conflict	UNP O66529
3b	169	ALA	SER	conflict	UNP O66529
3b	177	ASP	GLY	conflict	UNP O66529
3b	191	PHE	ILE	conflict	UNP O66529
3b	193	ASP	VAL	conflict	UNP O66529
3c	112	MET	-	initiating methionine	UNP O66529
3c	113	GLY	-	expression tag	UNP O66529
3c	114	ILE	MET	conflict	UNP O66529
3c	115	GLU	GLN	conflict	UNP O66529
3c	138	THR	ALA	conflict	UNP O66529
3c	158	GLY	GLU	conflict	UNP O66529
3c	169	ALA	SER	conflict	UNP O66529
3c	177	ASP	GLY	conflict	UNP O66529
3c	191	PHE	ILE	conflict	UNP O66529
3c	193	ASP	VAL	conflict	UNP O66529
3d	112	MET	-	initiating methionine	UNP O66529
3d	113	GLY	-	expression tag	UNP O66529
3d	114	ILE	MET	conflict	UNP O66529
3d	115	GLU	GLN	conflict	UNP O66529
3d	138	THR	ALA	conflict	UNP O66529
3d	158	GLY	GLU	conflict	UNP O66529
3d	169	ALA	SER	conflict	UNP O66529
3d	177	ASP	GLY	conflict	UNP O66529
3d	191	PHE	ILE	conflict	UNP O66529
3d	193	ASP	VAL	conflict	UNP O66529
4a	112	MET	-	initiating methionine	UNP O66529
4a	113	GLY	-	expression tag	UNP O66529
4a	114	ILE	MET	conflict	UNP O66529
4a	115	GLU	GLN	conflict	UNP O66529
4a	138	THR	ALA	conflict	UNP O66529
4a	158	GLY	GLU	conflict	UNP O66529
4a	169	ALA	SER	conflict	UNP O66529
4a	177	ASP	GLY	conflict	UNP O66529
4a	191	PHE	ILE	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
4a	193	ASP	VAL	conflict	UNP O66529
4b	112	MET	-	initiating methionine	UNP O66529
4b	113	GLY	-	expression tag	UNP O66529
4b	114	ILE	MET	conflict	UNP O66529
4b	115	GLU	GLN	conflict	UNP O66529
4b	138	THR	ALA	conflict	UNP O66529
4b	158	GLY	GLU	conflict	UNP O66529
4b	169	ALA	SER	conflict	UNP O66529
4b	177	ASP	GLY	conflict	UNP O66529
4b	191	PHE	ILE	conflict	UNP O66529
4b	193	ASP	VAL	conflict	UNP O66529
4c	112	MET	-	initiating methionine	UNP O66529
4c	113	GLY	-	expression tag	UNP O66529
4c	114	ILE	MET	conflict	UNP O66529
4c	115	GLU	GLN	conflict	UNP O66529
4c	138	THR	ALA	conflict	UNP O66529
4c	158	GLY	GLU	conflict	UNP O66529
4c	169	ALA	SER	conflict	UNP O66529
4c	177	ASP	GLY	conflict	UNP O66529
4c	191	PHE	ILE	conflict	UNP O66529
4c	193	ASP	VAL	conflict	UNP O66529
4d	112	MET	-	initiating methionine	UNP O66529
4d	113	GLY	-	expression tag	UNP O66529
4d	114	ILE	MET	conflict	UNP O66529
4d	115	GLU	GLN	conflict	UNP O66529
4d	138	THR	ALA	conflict	UNP O66529
4d	158	GLY	GLU	conflict	UNP O66529
4d	169	ALA	SER	conflict	UNP O66529
4d	177	ASP	GLY	conflict	UNP O66529
4d	191	PHE	ILE	conflict	UNP O66529
4d	193	ASP	VAL	conflict	UNP O66529
5a	112	MET	-	initiating methionine	UNP O66529
5a	113	GLY	-	expression tag	UNP O66529
5a	114	ILE	MET	conflict	UNP O66529
5a	115	GLU	GLN	conflict	UNP O66529
5a	138	THR	ALA	conflict	UNP O66529
5a	158	GLY	GLU	conflict	UNP O66529
5a	169	ALA	SER	conflict	UNP O66529
5a	177	ASP	GLY	conflict	UNP O66529
5a	191	PHE	ILE	conflict	UNP O66529
5a	193	ASP	VAL	conflict	UNP O66529
5b	112	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
5b	113	GLY	-	expression tag	UNP O66529
5b	114	ILE	MET	conflict	UNP O66529
5b	115	GLU	GLN	conflict	UNP O66529
5b	138	THR	ALA	conflict	UNP O66529
5b	158	GLY	GLU	conflict	UNP O66529
5b	169	ALA	SER	conflict	UNP O66529
5b	177	ASP	GLY	conflict	UNP O66529
5b	191	PHE	ILE	conflict	UNP O66529
5b	193	ASP	VAL	conflict	UNP O66529
5c	112	MET	-	initiating methionine	UNP O66529
5c	113	GLY	-	expression tag	UNP O66529
5c	114	ILE	MET	conflict	UNP O66529
5c	115	GLU	GLN	conflict	UNP O66529
5c	138	THR	ALA	conflict	UNP O66529
5c	158	GLY	GLU	conflict	UNP O66529
5c	169	ALA	SER	conflict	UNP O66529
5c	177	ASP	GLY	conflict	UNP O66529
5c	191	PHE	ILE	conflict	UNP O66529
5c	193	ASP	VAL	conflict	UNP O66529
5d	112	MET	-	initiating methionine	UNP O66529
5d	113	GLY	-	expression tag	UNP O66529
5d	114	ILE	MET	conflict	UNP O66529
5d	115	GLU	GLN	conflict	UNP O66529
5d	138	THR	ALA	conflict	UNP O66529
5d	158	GLY	GLU	conflict	UNP O66529
5d	169	ALA	SER	conflict	UNP O66529
5d	177	ASP	GLY	conflict	UNP O66529
5d	191	PHE	ILE	conflict	UNP O66529
5d	193	ASP	VAL	conflict	UNP O66529
6a	112	MET	-	initiating methionine	UNP O66529
6a	113	GLY	-	expression tag	UNP O66529
6a	114	ILE	MET	conflict	UNP O66529
6a	115	GLU	GLN	conflict	UNP O66529
6a	138	THR	ALA	conflict	UNP O66529
6a	158	GLY	GLU	conflict	UNP O66529
6a	169	ALA	SER	conflict	UNP O66529
6a	177	ASP	GLY	conflict	UNP O66529
6a	191	PHE	ILE	conflict	UNP O66529
6a	193	ASP	VAL	conflict	UNP O66529
6b	112	MET	-	initiating methionine	UNP O66529
6b	113	GLY	-	expression tag	UNP O66529
6b	114	ILE	MET	conflict	UNP O66529

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Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
6b	115	GLU	GLN	conflict	UNP O66529
6b	138	THR	ALA	conflict	UNP O66529
6b	158	GLY	GLU	conflict	UNP O66529
6b	169	ALA	SER	conflict	UNP O66529
6b	177	ASP	GLY	conflict	UNP O66529
6b	191	PHE	ILE	conflict	UNP O66529
6b	193	ASP	VAL	conflict	UNP O66529
6c	112	MET	-	initiating methionine	UNP O66529
6c	113	GLY	-	expression tag	UNP O66529
6c	114	ILE	MET	conflict	UNP O66529
6c	115	GLU	GLN	conflict	UNP O66529
6c	138	THR	ALA	conflict	UNP O66529
6c	158	GLY	GLU	conflict	UNP O66529
6c	169	ALA	SER	conflict	UNP O66529
6c	177	ASP	GLY	conflict	UNP O66529
6c	191	PHE	ILE	conflict	UNP O66529
6c	193	ASP	VAL	conflict	UNP O66529
6d	112	MET	-	initiating methionine	UNP O66529
6d	113	GLY	-	expression tag	UNP O66529
6d	114	ILE	MET	conflict	UNP O66529
6d	115	GLU	GLN	conflict	UNP O66529
6d	138	THR	ALA	conflict	UNP O66529
6d	158	GLY	GLU	conflict	UNP O66529
6d	169	ALA	SER	conflict	UNP O66529
6d	177	ASP	GLY	conflict	UNP O66529
6d	191	PHE	ILE	conflict	UNP O66529
6d	193	ASP	VAL	conflict	UNP O66529
7a	112	MET	-	initiating methionine	UNP O66529
7a	113	GLY	-	expression tag	UNP O66529
7a	114	ILE	MET	conflict	UNP O66529
7a	115	GLU	GLN	conflict	UNP O66529
7a	138	THR	ALA	conflict	UNP O66529
7a	158	GLY	GLU	conflict	UNP O66529
7a	169	ALA	SER	conflict	UNP O66529
7a	177	ASP	GLY	conflict	UNP O66529
7a	191	PHE	ILE	conflict	UNP O66529
7a	193	ASP	VAL	conflict	UNP O66529
7b	112	MET	-	initiating methionine	UNP O66529
7b	113	GLY	-	expression tag	UNP O66529
7b	114	ILE	MET	conflict	UNP O66529
7b	115	GLU	GLN	conflict	UNP O66529
7b	138	THR	ALA	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
7b	158	GLY	GLU	conflict	UNP O66529
7b	169	ALA	SER	conflict	UNP O66529
7b	177	ASP	GLY	conflict	UNP O66529
7b	191	PHE	ILE	conflict	UNP O66529
7b	193	ASP	VAL	conflict	UNP O66529
7c	112	MET	-	initiating methionine	UNP O66529
7c	113	GLY	-	expression tag	UNP O66529
7c	114	ILE	MET	conflict	UNP O66529
7c	115	GLU	GLN	conflict	UNP O66529
7c	138	THR	ALA	conflict	UNP O66529
7c	158	GLY	GLU	conflict	UNP O66529
7c	169	ALA	SER	conflict	UNP O66529
7c	177	ASP	GLY	conflict	UNP O66529
7c	191	PHE	ILE	conflict	UNP O66529
7c	193	ASP	VAL	conflict	UNP O66529
7d	112	MET	-	initiating methionine	UNP O66529
7d	113	GLY	-	expression tag	UNP O66529
7d	114	ILE	MET	conflict	UNP O66529
7d	115	GLU	GLN	conflict	UNP O66529
7d	138	THR	ALA	conflict	UNP O66529
7d	158	GLY	GLU	conflict	UNP O66529
7d	169	ALA	SER	conflict	UNP O66529
7d	177	ASP	GLY	conflict	UNP O66529
7d	191	PHE	ILE	conflict	UNP O66529
7d	193	ASP	VAL	conflict	UNP O66529
Aa	112	MET	-	initiating methionine	UNP O66529
Aa	113	GLY	-	expression tag	UNP O66529
Aa	114	ILE	MET	conflict	UNP O66529
Aa	115	GLU	GLN	conflict	UNP O66529
Aa	138	THR	ALA	conflict	UNP O66529
Aa	158	GLY	GLU	conflict	UNP O66529
Aa	169	ALA	SER	conflict	UNP O66529
Aa	177	ASP	GLY	conflict	UNP O66529
Aa	191	PHE	ILE	conflict	UNP O66529
Aa	193	ASP	VAL	conflict	UNP O66529
Ab	112	MET	-	initiating methionine	UNP O66529
Ab	113	GLY	-	expression tag	UNP O66529
Ab	114	ILE	MET	conflict	UNP O66529
Ab	115	GLU	GLN	conflict	UNP O66529
Ab	138	THR	ALA	conflict	UNP O66529
Ab	158	GLY	GLU	conflict	UNP O66529
Ab	169	ALA	SER	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Ab	177	ASP	GLY	conflict	UNP O66529
Ab	191	PHE	ILE	conflict	UNP O66529
Ab	193	ASP	VAL	conflict	UNP O66529
Ac	112	MET	-	initiating methionine	UNP O66529
Ac	113	GLY	-	expression tag	UNP O66529
Ac	114	ILE	MET	conflict	UNP O66529
Ac	115	GLU	GLN	conflict	UNP O66529
Ac	138	THR	ALA	conflict	UNP O66529
Ac	158	GLY	GLU	conflict	UNP O66529
Ac	169	ALA	SER	conflict	UNP O66529
Ac	177	ASP	GLY	conflict	UNP O66529
Ac	191	PHE	ILE	conflict	UNP O66529
Ac	193	ASP	VAL	conflict	UNP O66529
Ad	112	MET	-	initiating methionine	UNP O66529
Ad	113	GLY	-	expression tag	UNP O66529
Ad	114	ILE	MET	conflict	UNP O66529
Ad	115	GLU	GLN	conflict	UNP O66529
Ad	138	THR	ALA	conflict	UNP O66529
Ad	158	GLY	GLU	conflict	UNP O66529
Ad	169	ALA	SER	conflict	UNP O66529
Ad	177	ASP	GLY	conflict	UNP O66529
Ad	191	PHE	ILE	conflict	UNP O66529
Ad	193	ASP	VAL	conflict	UNP O66529
Ba	112	MET	-	initiating methionine	UNP O66529
Ba	113	GLY	-	expression tag	UNP O66529
Ba	114	ILE	MET	conflict	UNP O66529
Ba	115	GLU	GLN	conflict	UNP O66529
Ba	138	THR	ALA	conflict	UNP O66529
Ba	158	GLY	GLU	conflict	UNP O66529
Ba	169	ALA	SER	conflict	UNP O66529
Ba	177	ASP	GLY	conflict	UNP O66529
Ba	191	PHE	ILE	conflict	UNP O66529
Ba	193	ASP	VAL	conflict	UNP O66529
Bb	112	MET	-	initiating methionine	UNP O66529
Bb	113	GLY	-	expression tag	UNP O66529
Bb	114	ILE	MET	conflict	UNP O66529
Bb	115	GLU	GLN	conflict	UNP O66529
Bb	138	THR	ALA	conflict	UNP O66529
Bb	158	GLY	GLU	conflict	UNP O66529
Bb	169	ALA	SER	conflict	UNP O66529
Bb	177	ASP	GLY	conflict	UNP O66529
Bb	191	PHE	ILE	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Bb	193	ASP	VAL	conflict	UNP O66529
Bc	112	MET	-	initiating methionine	UNP O66529
Bc	113	GLY	-	expression tag	UNP O66529
Bc	114	ILE	MET	conflict	UNP O66529
Bc	115	GLU	GLN	conflict	UNP O66529
Bc	138	THR	ALA	conflict	UNP O66529
Bc	158	GLY	GLU	conflict	UNP O66529
Bc	169	ALA	SER	conflict	UNP O66529
Bc	177	ASP	GLY	conflict	UNP O66529
Bc	191	PHE	ILE	conflict	UNP O66529
Bc	193	ASP	VAL	conflict	UNP O66529
Bd	112	MET	-	initiating methionine	UNP O66529
Bd	113	GLY	-	expression tag	UNP O66529
Bd	114	ILE	MET	conflict	UNP O66529
Bd	115	GLU	GLN	conflict	UNP O66529
Bd	138	THR	ALA	conflict	UNP O66529
Bd	158	GLY	GLU	conflict	UNP O66529
Bd	169	ALA	SER	conflict	UNP O66529
Bd	177	ASP	GLY	conflict	UNP O66529
Bd	191	PHE	ILE	conflict	UNP O66529
Bd	193	ASP	VAL	conflict	UNP O66529
Ca	112	MET	-	initiating methionine	UNP O66529
Ca	113	GLY	-	expression tag	UNP O66529
Ca	114	ILE	MET	conflict	UNP O66529
Ca	115	GLU	GLN	conflict	UNP O66529
Ca	138	THR	ALA	conflict	UNP O66529
Ca	158	GLY	GLU	conflict	UNP O66529
Ca	169	ALA	SER	conflict	UNP O66529
Ca	177	ASP	GLY	conflict	UNP O66529
Ca	191	PHE	ILE	conflict	UNP O66529
Ca	193	ASP	VAL	conflict	UNP O66529
Cb	112	MET	-	initiating methionine	UNP O66529
Cb	113	GLY	-	expression tag	UNP O66529
Cb	114	ILE	MET	conflict	UNP O66529
Cb	115	GLU	GLN	conflict	UNP O66529
Cb	138	THR	ALA	conflict	UNP O66529
Cb	158	GLY	GLU	conflict	UNP O66529
Cb	169	ALA	SER	conflict	UNP O66529
Cb	177	ASP	GLY	conflict	UNP O66529
Cb	191	PHE	ILE	conflict	UNP O66529
Cb	193	ASP	VAL	conflict	UNP O66529
Cc	112	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Cc	113	GLY	-	expression tag	UNP O66529
Cc	114	ILE	MET	conflict	UNP O66529
Cc	115	GLU	GLN	conflict	UNP O66529
Cc	138	THR	ALA	conflict	UNP O66529
Cc	158	GLY	GLU	conflict	UNP O66529
Cc	169	ALA	SER	conflict	UNP O66529
Cc	177	ASP	GLY	conflict	UNP O66529
Cc	191	PHE	ILE	conflict	UNP O66529
Cc	193	ASP	VAL	conflict	UNP O66529
Cd	112	MET	-	initiating methionine	UNP O66529
Cd	113	GLY	-	expression tag	UNP O66529
Cd	114	ILE	MET	conflict	UNP O66529
Cd	115	GLU	GLN	conflict	UNP O66529
Cd	138	THR	ALA	conflict	UNP O66529
Cd	158	GLY	GLU	conflict	UNP O66529
Cd	169	ALA	SER	conflict	UNP O66529
Cd	177	ASP	GLY	conflict	UNP O66529
Cd	191	PHE	ILE	conflict	UNP O66529
Cd	193	ASP	VAL	conflict	UNP O66529
Da	112	MET	-	initiating methionine	UNP O66529
Da	113	GLY	-	expression tag	UNP O66529
Da	114	ILE	MET	conflict	UNP O66529
Da	115	GLU	GLN	conflict	UNP O66529
Da	138	THR	ALA	conflict	UNP O66529
Da	158	GLY	GLU	conflict	UNP O66529
Da	169	ALA	SER	conflict	UNP O66529
Da	177	ASP	GLY	conflict	UNP O66529
Da	191	PHE	ILE	conflict	UNP O66529
Da	193	ASP	VAL	conflict	UNP O66529
Db	112	MET	-	initiating methionine	UNP O66529
Db	113	GLY	-	expression tag	UNP O66529
Db	114	ILE	MET	conflict	UNP O66529
Db	115	GLU	GLN	conflict	UNP O66529
Db	138	THR	ALA	conflict	UNP O66529
Db	158	GLY	GLU	conflict	UNP O66529
Db	169	ALA	SER	conflict	UNP O66529
Db	177	ASP	GLY	conflict	UNP O66529
Db	191	PHE	ILE	conflict	UNP O66529
Db	193	ASP	VAL	conflict	UNP O66529
Dc	112	MET	-	initiating methionine	UNP O66529
Dc	113	GLY	-	expression tag	UNP O66529
Dc	114	ILE	MET	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Dc	115	GLU	GLN	conflict	UNP O66529
Dc	138	THR	ALA	conflict	UNP O66529
Dc	158	GLY	GLU	conflict	UNP O66529
Dc	169	ALA	SER	conflict	UNP O66529
Dc	177	ASP	GLY	conflict	UNP O66529
Dc	191	PHE	ILE	conflict	UNP O66529
Dc	193	ASP	VAL	conflict	UNP O66529
Dd	112	MET	-	initiating methionine	UNP O66529
Dd	113	GLY	-	expression tag	UNP O66529
Dd	114	ILE	MET	conflict	UNP O66529
Dd	115	GLU	GLN	conflict	UNP O66529
Dd	138	THR	ALA	conflict	UNP O66529
Dd	158	GLY	GLU	conflict	UNP O66529
Dd	169	ALA	SER	conflict	UNP O66529
Dd	177	ASP	GLY	conflict	UNP O66529
Dd	191	PHE	ILE	conflict	UNP O66529
Dd	193	ASP	VAL	conflict	UNP O66529
Ea	112	MET	-	initiating methionine	UNP O66529
Ea	113	GLY	-	expression tag	UNP O66529
Ea	114	ILE	MET	conflict	UNP O66529
Ea	115	GLU	GLN	conflict	UNP O66529
Ea	138	THR	ALA	conflict	UNP O66529
Ea	158	GLY	GLU	conflict	UNP O66529
Ea	169	ALA	SER	conflict	UNP O66529
Ea	177	ASP	GLY	conflict	UNP O66529
Ea	191	PHE	ILE	conflict	UNP O66529
Ea	193	ASP	VAL	conflict	UNP O66529
Eb	112	MET	-	initiating methionine	UNP O66529
Eb	113	GLY	-	expression tag	UNP O66529
Eb	114	ILE	MET	conflict	UNP O66529
Eb	115	GLU	GLN	conflict	UNP O66529
Eb	138	THR	ALA	conflict	UNP O66529
Eb	158	GLY	GLU	conflict	UNP O66529
Eb	169	ALA	SER	conflict	UNP O66529
Eb	177	ASP	GLY	conflict	UNP O66529
Eb	191	PHE	ILE	conflict	UNP O66529
Eb	193	ASP	VAL	conflict	UNP O66529
Ec	112	MET	-	initiating methionine	UNP O66529
Ec	113	GLY	-	expression tag	UNP O66529
Ec	114	ILE	MET	conflict	UNP O66529
Ec	115	GLU	GLN	conflict	UNP O66529
Ec	138	THR	ALA	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Ec	158	GLY	GLU	conflict	UNP O66529
Ec	169	ALA	SER	conflict	UNP O66529
Ec	177	ASP	GLY	conflict	UNP O66529
Ec	191	PHE	ILE	conflict	UNP O66529
Ec	193	ASP	VAL	conflict	UNP O66529
Ed	112	MET	-	initiating methionine	UNP O66529
Ed	113	GLY	-	expression tag	UNP O66529
Ed	114	ILE	MET	conflict	UNP O66529
Ed	115	GLU	GLN	conflict	UNP O66529
Ed	138	THR	ALA	conflict	UNP O66529
Ed	158	GLY	GLU	conflict	UNP O66529
Ed	169	ALA	SER	conflict	UNP O66529
Ed	177	ASP	GLY	conflict	UNP O66529
Ed	191	PHE	ILE	conflict	UNP O66529
Ed	193	ASP	VAL	conflict	UNP O66529
Fa	112	MET	-	initiating methionine	UNP O66529
Fa	113	GLY	-	expression tag	UNP O66529
Fa	114	ILE	MET	conflict	UNP O66529
Fa	115	GLU	GLN	conflict	UNP O66529
Fa	138	THR	ALA	conflict	UNP O66529
Fa	158	GLY	GLU	conflict	UNP O66529
Fa	169	ALA	SER	conflict	UNP O66529
Fa	177	ASP	GLY	conflict	UNP O66529
Fa	191	PHE	ILE	conflict	UNP O66529
Fa	193	ASP	VAL	conflict	UNP O66529
Fb	112	MET	-	initiating methionine	UNP O66529
Fb	113	GLY	-	expression tag	UNP O66529
Fb	114	ILE	MET	conflict	UNP O66529
Fb	115	GLU	GLN	conflict	UNP O66529
Fb	138	THR	ALA	conflict	UNP O66529
Fb	158	GLY	GLU	conflict	UNP O66529
Fb	169	ALA	SER	conflict	UNP O66529
Fb	177	ASP	GLY	conflict	UNP O66529
Fb	191	PHE	ILE	conflict	UNP O66529
Fb	193	ASP	VAL	conflict	UNP O66529
Fc	112	MET	-	initiating methionine	UNP O66529
Fc	113	GLY	-	expression tag	UNP O66529
Fc	114	ILE	MET	conflict	UNP O66529
Fc	115	GLU	GLN	conflict	UNP O66529
Fc	138	THR	ALA	conflict	UNP O66529
Fc	158	GLY	GLU	conflict	UNP O66529
Fc	169	ALA	SER	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Fc	177	ASP	GLY	conflict	UNP O66529
Fc	191	PHE	ILE	conflict	UNP O66529
Fc	193	ASP	VAL	conflict	UNP O66529
Fd	112	MET	-	initiating methionine	UNP O66529
Fd	113	GLY	-	expression tag	UNP O66529
Fd	114	ILE	MET	conflict	UNP O66529
Fd	115	GLU	GLN	conflict	UNP O66529
Fd	138	THR	ALA	conflict	UNP O66529
Fd	158	GLY	GLU	conflict	UNP O66529
Fd	169	ALA	SER	conflict	UNP O66529
Fd	177	ASP	GLY	conflict	UNP O66529
Fd	191	PHE	ILE	conflict	UNP O66529
Fd	193	ASP	VAL	conflict	UNP O66529
Ga	112	MET	-	initiating methionine	UNP O66529
Ga	113	GLY	-	expression tag	UNP O66529
Ga	114	ILE	MET	conflict	UNP O66529
Ga	115	GLU	GLN	conflict	UNP O66529
Ga	138	THR	ALA	conflict	UNP O66529
Ga	158	GLY	GLU	conflict	UNP O66529
Ga	169	ALA	SER	conflict	UNP O66529
Ga	177	ASP	GLY	conflict	UNP O66529
Ga	191	PHE	ILE	conflict	UNP O66529
Ga	193	ASP	VAL	conflict	UNP O66529
Gb	112	MET	-	initiating methionine	UNP O66529
Gb	113	GLY	-	expression tag	UNP O66529
Gb	114	ILE	MET	conflict	UNP O66529
Gb	115	GLU	GLN	conflict	UNP O66529
Gb	138	THR	ALA	conflict	UNP O66529
Gb	158	GLY	GLU	conflict	UNP O66529
Gb	169	ALA	SER	conflict	UNP O66529
Gb	177	ASP	GLY	conflict	UNP O66529
Gb	191	PHE	ILE	conflict	UNP O66529
Gb	193	ASP	VAL	conflict	UNP O66529
Gc	112	MET	-	initiating methionine	UNP O66529
Gc	113	GLY	-	expression tag	UNP O66529
Gc	114	ILE	MET	conflict	UNP O66529
Gc	115	GLU	GLN	conflict	UNP O66529
Gc	138	THR	ALA	conflict	UNP O66529
Gc	158	GLY	GLU	conflict	UNP O66529
Gc	169	ALA	SER	conflict	UNP O66529
Gc	177	ASP	GLY	conflict	UNP O66529
Gc	191	PHE	ILE	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Gc	193	ASP	VAL	conflict	UNP O66529
Gd	112	MET	-	initiating methionine	UNP O66529
Gd	113	GLY	-	expression tag	UNP O66529
Gd	114	ILE	MET	conflict	UNP O66529
Gd	115	GLU	GLN	conflict	UNP O66529
Gd	138	THR	ALA	conflict	UNP O66529
Gd	158	GLY	GLU	conflict	UNP O66529
Gd	169	ALA	SER	conflict	UNP O66529
Gd	177	ASP	GLY	conflict	UNP O66529
Gd	191	PHE	ILE	conflict	UNP O66529
Gd	193	ASP	VAL	conflict	UNP O66529
Ha	112	MET	-	initiating methionine	UNP O66529
Ha	113	GLY	-	expression tag	UNP O66529
Ha	114	ILE	MET	conflict	UNP O66529
Ha	115	GLU	GLN	conflict	UNP O66529
Ha	138	THR	ALA	conflict	UNP O66529
Ha	158	GLY	GLU	conflict	UNP O66529
Ha	169	ALA	SER	conflict	UNP O66529
Ha	177	ASP	GLY	conflict	UNP O66529
Ha	191	PHE	ILE	conflict	UNP O66529
Ha	193	ASP	VAL	conflict	UNP O66529
Hb	112	MET	-	initiating methionine	UNP O66529
Hb	113	GLY	-	expression tag	UNP O66529
Hb	114	ILE	MET	conflict	UNP O66529
Hb	115	GLU	GLN	conflict	UNP O66529
Hb	138	THR	ALA	conflict	UNP O66529
Hb	158	GLY	GLU	conflict	UNP O66529
Hb	169	ALA	SER	conflict	UNP O66529
Hb	177	ASP	GLY	conflict	UNP O66529
Hb	191	PHE	ILE	conflict	UNP O66529
Hb	193	ASP	VAL	conflict	UNP O66529
Hc	112	MET	-	initiating methionine	UNP O66529
Hc	113	GLY	-	expression tag	UNP O66529
Hc	114	ILE	MET	conflict	UNP O66529
Hc	115	GLU	GLN	conflict	UNP O66529
Hc	138	THR	ALA	conflict	UNP O66529
Hc	158	GLY	GLU	conflict	UNP O66529
Hc	169	ALA	SER	conflict	UNP O66529
Hc	177	ASP	GLY	conflict	UNP O66529
Hc	191	PHE	ILE	conflict	UNP O66529
Hc	193	ASP	VAL	conflict	UNP O66529
Hd	112	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Hd	113	GLY	-	expression tag	UNP O66529
Hd	114	ILE	MET	conflict	UNP O66529
Hd	115	GLU	GLN	conflict	UNP O66529
Hd	138	THR	ALA	conflict	UNP O66529
Hd	158	GLY	GLU	conflict	UNP O66529
Hd	169	ALA	SER	conflict	UNP O66529
Hd	177	ASP	GLY	conflict	UNP O66529
Hd	191	PHE	ILE	conflict	UNP O66529
Hd	193	ASP	VAL	conflict	UNP O66529
Ia	112	MET	-	initiating methionine	UNP O66529
Ia	113	GLY	-	expression tag	UNP O66529
Ia	114	ILE	MET	conflict	UNP O66529
Ia	115	GLU	GLN	conflict	UNP O66529
Ia	138	THR	ALA	conflict	UNP O66529
Ia	158	GLY	GLU	conflict	UNP O66529
Ia	169	ALA	SER	conflict	UNP O66529
Ia	177	ASP	GLY	conflict	UNP O66529
Ia	191	PHE	ILE	conflict	UNP O66529
Ia	193	ASP	VAL	conflict	UNP O66529
Ib	112	MET	-	initiating methionine	UNP O66529
Ib	113	GLY	-	expression tag	UNP O66529
Ib	114	ILE	MET	conflict	UNP O66529
Ib	115	GLU	GLN	conflict	UNP O66529
Ib	138	THR	ALA	conflict	UNP O66529
Ib	158	GLY	GLU	conflict	UNP O66529
Ib	169	ALA	SER	conflict	UNP O66529
Ib	177	ASP	GLY	conflict	UNP O66529
Ib	191	PHE	ILE	conflict	UNP O66529
Ib	193	ASP	VAL	conflict	UNP O66529
Ic	112	MET	-	initiating methionine	UNP O66529
Ic	113	GLY	-	expression tag	UNP O66529
Ic	114	ILE	MET	conflict	UNP O66529
Ic	115	GLU	GLN	conflict	UNP O66529
Ic	138	THR	ALA	conflict	UNP O66529
Ic	158	GLY	GLU	conflict	UNP O66529
Ic	169	ALA	SER	conflict	UNP O66529
Ic	177	ASP	GLY	conflict	UNP O66529
Ic	191	PHE	ILE	conflict	UNP O66529
Ic	193	ASP	VAL	conflict	UNP O66529
Id	112	MET	-	initiating methionine	UNP O66529
Id	113	GLY	-	expression tag	UNP O66529
Id	114	ILE	MET	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Id	115	GLU	GLN	conflict	UNP O66529
Id	138	THR	ALA	conflict	UNP O66529
Id	158	GLY	GLU	conflict	UNP O66529
Id	169	ALA	SER	conflict	UNP O66529
Id	177	ASP	GLY	conflict	UNP O66529
Id	191	PHE	ILE	conflict	UNP O66529
Id	193	ASP	VAL	conflict	UNP O66529
Ja	112	MET	-	initiating methionine	UNP O66529
Ja	113	GLY	-	expression tag	UNP O66529
Ja	114	ILE	MET	conflict	UNP O66529
Ja	115	GLU	GLN	conflict	UNP O66529
Ja	138	THR	ALA	conflict	UNP O66529
Ja	158	GLY	GLU	conflict	UNP O66529
Ja	169	ALA	SER	conflict	UNP O66529
Ja	177	ASP	GLY	conflict	UNP O66529
Ja	191	PHE	ILE	conflict	UNP O66529
Ja	193	ASP	VAL	conflict	UNP O66529
Jb	112	MET	-	initiating methionine	UNP O66529
Jb	113	GLY	-	expression tag	UNP O66529
Jb	114	ILE	MET	conflict	UNP O66529
Jb	115	GLU	GLN	conflict	UNP O66529
Jb	138	THR	ALA	conflict	UNP O66529
Jb	158	GLY	GLU	conflict	UNP O66529
Jb	169	ALA	SER	conflict	UNP O66529
Jb	177	ASP	GLY	conflict	UNP O66529
Jb	191	PHE	ILE	conflict	UNP O66529
Jb	193	ASP	VAL	conflict	UNP O66529
Jc	112	MET	-	initiating methionine	UNP O66529
Jc	113	GLY	-	expression tag	UNP O66529
Jc	114	ILE	MET	conflict	UNP O66529
Jc	115	GLU	GLN	conflict	UNP O66529
Jc	138	THR	ALA	conflict	UNP O66529
Jc	158	GLY	GLU	conflict	UNP O66529
Jc	169	ALA	SER	conflict	UNP O66529
Jc	177	ASP	GLY	conflict	UNP O66529
Jc	191	PHE	ILE	conflict	UNP O66529
Jc	193	ASP	VAL	conflict	UNP O66529
Jd	112	MET	-	initiating methionine	UNP O66529
Jd	113	GLY	-	expression tag	UNP O66529
Jd	114	ILE	MET	conflict	UNP O66529
Jd	115	GLU	GLN	conflict	UNP O66529
Jd	138	THR	ALA	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Jd	158	GLY	GLU	conflict	UNP O66529
Jd	169	ALA	SER	conflict	UNP O66529
Jd	177	ASP	GLY	conflict	UNP O66529
Jd	191	PHE	ILE	conflict	UNP O66529
Jd	193	ASP	VAL	conflict	UNP O66529
Ka	112	MET	-	initiating methionine	UNP O66529
Ka	113	GLY	-	expression tag	UNP O66529
Ka	114	ILE	MET	conflict	UNP O66529
Ka	115	GLU	GLN	conflict	UNP O66529
Ka	138	THR	ALA	conflict	UNP O66529
Ka	158	GLY	GLU	conflict	UNP O66529
Ka	169	ALA	SER	conflict	UNP O66529
Ka	177	ASP	GLY	conflict	UNP O66529
Ka	191	PHE	ILE	conflict	UNP O66529
Ka	193	ASP	VAL	conflict	UNP O66529
Kb	112	MET	-	initiating methionine	UNP O66529
Kb	113	GLY	-	expression tag	UNP O66529
Kb	114	ILE	MET	conflict	UNP O66529
Kb	115	GLU	GLN	conflict	UNP O66529
Kb	138	THR	ALA	conflict	UNP O66529
Kb	158	GLY	GLU	conflict	UNP O66529
Kb	169	ALA	SER	conflict	UNP O66529
Kb	177	ASP	GLY	conflict	UNP O66529
Kb	191	PHE	ILE	conflict	UNP O66529
Kb	193	ASP	VAL	conflict	UNP O66529
Kc	112	MET	-	initiating methionine	UNP O66529
Kc	113	GLY	-	expression tag	UNP O66529
Kc	114	ILE	MET	conflict	UNP O66529
Kc	115	GLU	GLN	conflict	UNP O66529
Kc	138	THR	ALA	conflict	UNP O66529
Kc	158	GLY	GLU	conflict	UNP O66529
Kc	169	ALA	SER	conflict	UNP O66529
Kc	177	ASP	GLY	conflict	UNP O66529
Kc	191	PHE	ILE	conflict	UNP O66529
Kc	193	ASP	VAL	conflict	UNP O66529
Kd	112	MET	-	initiating methionine	UNP O66529
Kd	113	GLY	-	expression tag	UNP O66529
Kd	114	ILE	MET	conflict	UNP O66529
Kd	115	GLU	GLN	conflict	UNP O66529
Kd	138	THR	ALA	conflict	UNP O66529
Kd	158	GLY	GLU	conflict	UNP O66529
Kd	169	ALA	SER	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Kd	177	ASP	GLY	conflict	UNP O66529
Kd	191	PHE	ILE	conflict	UNP O66529
Kd	193	ASP	VAL	conflict	UNP O66529
La	112	MET	-	initiating methionine	UNP O66529
La	113	GLY	-	expression tag	UNP O66529
La	114	ILE	MET	conflict	UNP O66529
La	115	GLU	GLN	conflict	UNP O66529
La	138	THR	ALA	conflict	UNP O66529
La	158	GLY	GLU	conflict	UNP O66529
La	169	ALA	SER	conflict	UNP O66529
La	177	ASP	GLY	conflict	UNP O66529
La	191	PHE	ILE	conflict	UNP O66529
La	193	ASP	VAL	conflict	UNP O66529
Lb	112	MET	-	initiating methionine	UNP O66529
Lb	113	GLY	-	expression tag	UNP O66529
Lb	114	ILE	MET	conflict	UNP O66529
Lb	115	GLU	GLN	conflict	UNP O66529
Lb	138	THR	ALA	conflict	UNP O66529
Lb	158	GLY	GLU	conflict	UNP O66529
Lb	169	ALA	SER	conflict	UNP O66529
Lb	177	ASP	GLY	conflict	UNP O66529
Lb	191	PHE	ILE	conflict	UNP O66529
Lb	193	ASP	VAL	conflict	UNP O66529
Lc	112	MET	-	initiating methionine	UNP O66529
Lc	113	GLY	-	expression tag	UNP O66529
Lc	114	ILE	MET	conflict	UNP O66529
Lc	115	GLU	GLN	conflict	UNP O66529
Lc	138	THR	ALA	conflict	UNP O66529
Lc	158	GLY	GLU	conflict	UNP O66529
Lc	169	ALA	SER	conflict	UNP O66529
Lc	177	ASP	GLY	conflict	UNP O66529
Lc	191	PHE	ILE	conflict	UNP O66529
Lc	193	ASP	VAL	conflict	UNP O66529
Ld	112	MET	-	initiating methionine	UNP O66529
Ld	113	GLY	-	expression tag	UNP O66529
Ld	114	ILE	MET	conflict	UNP O66529
Ld	115	GLU	GLN	conflict	UNP O66529
Ld	138	THR	ALA	conflict	UNP O66529
Ld	158	GLY	GLU	conflict	UNP O66529
Ld	169	ALA	SER	conflict	UNP O66529
Ld	177	ASP	GLY	conflict	UNP O66529
Ld	191	PHE	ILE	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Ld	193	ASP	VAL	conflict	UNP O66529
Ma	112	MET	-	initiating methionine	UNP O66529
Ma	113	GLY	-	expression tag	UNP O66529
Ma	114	ILE	MET	conflict	UNP O66529
Ma	115	GLU	GLN	conflict	UNP O66529
Ma	138	THR	ALA	conflict	UNP O66529
Ma	158	GLY	GLU	conflict	UNP O66529
Ma	169	ALA	SER	conflict	UNP O66529
Ma	177	ASP	GLY	conflict	UNP O66529
Ma	191	PHE	ILE	conflict	UNP O66529
Ma	193	ASP	VAL	conflict	UNP O66529
Mb	112	MET	-	initiating methionine	UNP O66529
Mb	113	GLY	-	expression tag	UNP O66529
Mb	114	ILE	MET	conflict	UNP O66529
Mb	115	GLU	GLN	conflict	UNP O66529
Mb	138	THR	ALA	conflict	UNP O66529
Mb	158	GLY	GLU	conflict	UNP O66529
Mb	169	ALA	SER	conflict	UNP O66529
Mb	177	ASP	GLY	conflict	UNP O66529
Mb	191	PHE	ILE	conflict	UNP O66529
Mb	193	ASP	VAL	conflict	UNP O66529
Mc	112	MET	-	initiating methionine	UNP O66529
Mc	113	GLY	-	expression tag	UNP O66529
Mc	114	ILE	MET	conflict	UNP O66529
Mc	115	GLU	GLN	conflict	UNP O66529
Mc	138	THR	ALA	conflict	UNP O66529
Mc	158	GLY	GLU	conflict	UNP O66529
Mc	169	ALA	SER	conflict	UNP O66529
Mc	177	ASP	GLY	conflict	UNP O66529
Mc	191	PHE	ILE	conflict	UNP O66529
Mc	193	ASP	VAL	conflict	UNP O66529
Md	112	MET	-	initiating methionine	UNP O66529
Md	113	GLY	-	expression tag	UNP O66529
Md	114	ILE	MET	conflict	UNP O66529
Md	115	GLU	GLN	conflict	UNP O66529
Md	138	THR	ALA	conflict	UNP O66529
Md	158	GLY	GLU	conflict	UNP O66529
Md	169	ALA	SER	conflict	UNP O66529
Md	177	ASP	GLY	conflict	UNP O66529
Md	191	PHE	ILE	conflict	UNP O66529
Md	193	ASP	VAL	conflict	UNP O66529
Na	112	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Na	113	GLY	-	expression tag	UNP O66529
Na	114	ILE	MET	conflict	UNP O66529
Na	115	GLU	GLN	conflict	UNP O66529
Na	138	THR	ALA	conflict	UNP O66529
Na	158	GLY	GLU	conflict	UNP O66529
Na	169	ALA	SER	conflict	UNP O66529
Na	177	ASP	GLY	conflict	UNP O66529
Na	191	PHE	ILE	conflict	UNP O66529
Na	193	ASP	VAL	conflict	UNP O66529
Nb	112	MET	-	initiating methionine	UNP O66529
Nb	113	GLY	-	expression tag	UNP O66529
Nb	114	ILE	MET	conflict	UNP O66529
Nb	115	GLU	GLN	conflict	UNP O66529
Nb	138	THR	ALA	conflict	UNP O66529
Nb	158	GLY	GLU	conflict	UNP O66529
Nb	169	ALA	SER	conflict	UNP O66529
Nb	177	ASP	GLY	conflict	UNP O66529
Nb	191	PHE	ILE	conflict	UNP O66529
Nb	193	ASP	VAL	conflict	UNP O66529
Nc	112	MET	-	initiating methionine	UNP O66529
Nc	113	GLY	-	expression tag	UNP O66529
Nc	114	ILE	MET	conflict	UNP O66529
Nc	115	GLU	GLN	conflict	UNP O66529
Nc	138	THR	ALA	conflict	UNP O66529
Nc	158	GLY	GLU	conflict	UNP O66529
Nc	169	ALA	SER	conflict	UNP O66529
Nc	177	ASP	GLY	conflict	UNP O66529
Nc	191	PHE	ILE	conflict	UNP O66529
Nc	193	ASP	VAL	conflict	UNP O66529
Nd	112	MET	-	initiating methionine	UNP O66529
Nd	113	GLY	-	expression tag	UNP O66529
Nd	114	ILE	MET	conflict	UNP O66529
Nd	115	GLU	GLN	conflict	UNP O66529
Nd	138	THR	ALA	conflict	UNP O66529
Nd	158	GLY	GLU	conflict	UNP O66529
Nd	169	ALA	SER	conflict	UNP O66529
Nd	177	ASP	GLY	conflict	UNP O66529
Nd	191	PHE	ILE	conflict	UNP O66529
Nd	193	ASP	VAL	conflict	UNP O66529
Oa	112	MET	-	initiating methionine	UNP O66529
Oa	113	GLY	-	expression tag	UNP O66529
Oa	114	ILE	MET	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Oa	115	GLU	GLN	conflict	UNP O66529
Oa	138	THR	ALA	conflict	UNP O66529
Oa	158	GLY	GLU	conflict	UNP O66529
Oa	169	ALA	SER	conflict	UNP O66529
Oa	177	ASP	GLY	conflict	UNP O66529
Oa	191	PHE	ILE	conflict	UNP O66529
Oa	193	ASP	VAL	conflict	UNP O66529
Ob	112	MET	-	initiating methionine	UNP O66529
Ob	113	GLY	-	expression tag	UNP O66529
Ob	114	ILE	MET	conflict	UNP O66529
Ob	115	GLU	GLN	conflict	UNP O66529
Ob	138	THR	ALA	conflict	UNP O66529
Ob	158	GLY	GLU	conflict	UNP O66529
Ob	169	ALA	SER	conflict	UNP O66529
Ob	177	ASP	GLY	conflict	UNP O66529
Ob	191	PHE	ILE	conflict	UNP O66529
Ob	193	ASP	VAL	conflict	UNP O66529
Oc	112	MET	-	initiating methionine	UNP O66529
Oc	113	GLY	-	expression tag	UNP O66529
Oc	114	ILE	MET	conflict	UNP O66529
Oc	115	GLU	GLN	conflict	UNP O66529
Oc	138	THR	ALA	conflict	UNP O66529
Oc	158	GLY	GLU	conflict	UNP O66529
Oc	169	ALA	SER	conflict	UNP O66529
Oc	177	ASP	GLY	conflict	UNP O66529
Oc	191	PHE	ILE	conflict	UNP O66529
Oc	193	ASP	VAL	conflict	UNP O66529
Od	112	MET	-	initiating methionine	UNP O66529
Od	113	GLY	-	expression tag	UNP O66529
Od	114	ILE	MET	conflict	UNP O66529
Od	115	GLU	GLN	conflict	UNP O66529
Od	138	THR	ALA	conflict	UNP O66529
Od	158	GLY	GLU	conflict	UNP O66529
Od	169	ALA	SER	conflict	UNP O66529
Od	177	ASP	GLY	conflict	UNP O66529
Od	191	PHE	ILE	conflict	UNP O66529
Od	193	ASP	VAL	conflict	UNP O66529
Pa	112	MET	-	initiating methionine	UNP O66529
Pa	113	GLY	-	expression tag	UNP O66529
Pa	114	ILE	MET	conflict	UNP O66529
Pa	115	GLU	GLN	conflict	UNP O66529
Pa	138	THR	ALA	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Pa	158	GLY	GLU	conflict	UNP O66529
Pa	169	ALA	SER	conflict	UNP O66529
Pa	177	ASP	GLY	conflict	UNP O66529
Pa	191	PHE	ILE	conflict	UNP O66529
Pa	193	ASP	VAL	conflict	UNP O66529
Pb	112	MET	-	initiating methionine	UNP O66529
Pb	113	GLY	-	expression tag	UNP O66529
Pb	114	ILE	MET	conflict	UNP O66529
Pb	115	GLU	GLN	conflict	UNP O66529
Pb	138	THR	ALA	conflict	UNP O66529
Pb	158	GLY	GLU	conflict	UNP O66529
Pb	169	ALA	SER	conflict	UNP O66529
Pb	177	ASP	GLY	conflict	UNP O66529
Pb	191	PHE	ILE	conflict	UNP O66529
Pb	193	ASP	VAL	conflict	UNP O66529
Pc	112	MET	-	initiating methionine	UNP O66529
Pc	113	GLY	-	expression tag	UNP O66529
Pc	114	ILE	MET	conflict	UNP O66529
Pc	115	GLU	GLN	conflict	UNP O66529
Pc	138	THR	ALA	conflict	UNP O66529
Pc	158	GLY	GLU	conflict	UNP O66529
Pc	169	ALA	SER	conflict	UNP O66529
Pc	177	ASP	GLY	conflict	UNP O66529
Pc	191	PHE	ILE	conflict	UNP O66529
Pc	193	ASP	VAL	conflict	UNP O66529
Pd	112	MET	-	initiating methionine	UNP O66529
Pd	113	GLY	-	expression tag	UNP O66529
Pd	114	ILE	MET	conflict	UNP O66529
Pd	115	GLU	GLN	conflict	UNP O66529
Pd	138	THR	ALA	conflict	UNP O66529
Pd	158	GLY	GLU	conflict	UNP O66529
Pd	169	ALA	SER	conflict	UNP O66529
Pd	177	ASP	GLY	conflict	UNP O66529
Pd	191	PHE	ILE	conflict	UNP O66529
Pd	193	ASP	VAL	conflict	UNP O66529
Qa	112	MET	-	initiating methionine	UNP O66529
Qa	113	GLY	-	expression tag	UNP O66529
Qa	114	ILE	MET	conflict	UNP O66529
Qa	115	GLU	GLN	conflict	UNP O66529
Qa	138	THR	ALA	conflict	UNP O66529
Qa	158	GLY	GLU	conflict	UNP O66529
Qa	169	ALA	SER	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Qa	177	ASP	GLY	conflict	UNP O66529
Qa	191	PHE	ILE	conflict	UNP O66529
Qa	193	ASP	VAL	conflict	UNP O66529
Qb	112	MET	-	initiating methionine	UNP O66529
Qb	113	GLY	-	expression tag	UNP O66529
Qb	114	ILE	MET	conflict	UNP O66529
Qb	115	GLU	GLN	conflict	UNP O66529
Qb	138	THR	ALA	conflict	UNP O66529
Qb	158	GLY	GLU	conflict	UNP O66529
Qb	169	ALA	SER	conflict	UNP O66529
Qb	177	ASP	GLY	conflict	UNP O66529
Qb	191	PHE	ILE	conflict	UNP O66529
Qb	193	ASP	VAL	conflict	UNP O66529
Qc	112	MET	-	initiating methionine	UNP O66529
Qc	113	GLY	-	expression tag	UNP O66529
Qc	114	ILE	MET	conflict	UNP O66529
Qc	115	GLU	GLN	conflict	UNP O66529
Qc	138	THR	ALA	conflict	UNP O66529
Qc	158	GLY	GLU	conflict	UNP O66529
Qc	169	ALA	SER	conflict	UNP O66529
Qc	177	ASP	GLY	conflict	UNP O66529
Qc	191	PHE	ILE	conflict	UNP O66529
Qc	193	ASP	VAL	conflict	UNP O66529
Qd	112	MET	-	initiating methionine	UNP O66529
Qd	113	GLY	-	expression tag	UNP O66529
Qd	114	ILE	MET	conflict	UNP O66529
Qd	115	GLU	GLN	conflict	UNP O66529
Qd	138	THR	ALA	conflict	UNP O66529
Qd	158	GLY	GLU	conflict	UNP O66529
Qd	169	ALA	SER	conflict	UNP O66529
Qd	177	ASP	GLY	conflict	UNP O66529
Qd	191	PHE	ILE	conflict	UNP O66529
Qd	193	ASP	VAL	conflict	UNP O66529
Ra	112	MET	-	initiating methionine	UNP O66529
Ra	113	GLY	-	expression tag	UNP O66529
Ra	114	ILE	MET	conflict	UNP O66529
Ra	115	GLU	GLN	conflict	UNP O66529
Ra	138	THR	ALA	conflict	UNP O66529
Ra	158	GLY	GLU	conflict	UNP O66529
Ra	169	ALA	SER	conflict	UNP O66529
Ra	177	ASP	GLY	conflict	UNP O66529
Ra	191	PHE	ILE	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Ra	193	ASP	VAL	conflict	UNP O66529
Rb	112	MET	-	initiating methionine	UNP O66529
Rb	113	GLY	-	expression tag	UNP O66529
Rb	114	ILE	MET	conflict	UNP O66529
Rb	115	GLU	GLN	conflict	UNP O66529
Rb	138	THR	ALA	conflict	UNP O66529
Rb	158	GLY	GLU	conflict	UNP O66529
Rb	169	ALA	SER	conflict	UNP O66529
Rb	177	ASP	GLY	conflict	UNP O66529
Rb	191	PHE	ILE	conflict	UNP O66529
Rb	193	ASP	VAL	conflict	UNP O66529
Rc	112	MET	-	initiating methionine	UNP O66529
Rc	113	GLY	-	expression tag	UNP O66529
Rc	114	ILE	MET	conflict	UNP O66529
Rc	115	GLU	GLN	conflict	UNP O66529
Rc	138	THR	ALA	conflict	UNP O66529
Rc	158	GLY	GLU	conflict	UNP O66529
Rc	169	ALA	SER	conflict	UNP O66529
Rc	177	ASP	GLY	conflict	UNP O66529
Rc	191	PHE	ILE	conflict	UNP O66529
Rc	193	ASP	VAL	conflict	UNP O66529
Rd	112	MET	-	initiating methionine	UNP O66529
Rd	113	GLY	-	expression tag	UNP O66529
Rd	114	ILE	MET	conflict	UNP O66529
Rd	115	GLU	GLN	conflict	UNP O66529
Rd	138	THR	ALA	conflict	UNP O66529
Rd	158	GLY	GLU	conflict	UNP O66529
Rd	169	ALA	SER	conflict	UNP O66529
Rd	177	ASP	GLY	conflict	UNP O66529
Rd	191	PHE	ILE	conflict	UNP O66529
Rd	193	ASP	VAL	conflict	UNP O66529
Sa	112	MET	-	initiating methionine	UNP O66529
Sa	113	GLY	-	expression tag	UNP O66529
Sa	114	ILE	MET	conflict	UNP O66529
Sa	115	GLU	GLN	conflict	UNP O66529
Sa	138	THR	ALA	conflict	UNP O66529
Sa	158	GLY	GLU	conflict	UNP O66529
Sa	169	ALA	SER	conflict	UNP O66529
Sa	177	ASP	GLY	conflict	UNP O66529
Sa	191	PHE	ILE	conflict	UNP O66529
Sa	193	ASP	VAL	conflict	UNP O66529
Sb	112	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Sb	113	GLY	-	expression tag	UNP O66529
Sb	114	ILE	MET	conflict	UNP O66529
Sb	115	GLU	GLN	conflict	UNP O66529
Sb	138	THR	ALA	conflict	UNP O66529
Sb	158	GLY	GLU	conflict	UNP O66529
Sb	169	ALA	SER	conflict	UNP O66529
Sb	177	ASP	GLY	conflict	UNP O66529
Sb	191	PHE	ILE	conflict	UNP O66529
Sb	193	ASP	VAL	conflict	UNP O66529
Sc	112	MET	-	initiating methionine	UNP O66529
Sc	113	GLY	-	expression tag	UNP O66529
Sc	114	ILE	MET	conflict	UNP O66529
Sc	115	GLU	GLN	conflict	UNP O66529
Sc	138	THR	ALA	conflict	UNP O66529
Sc	158	GLY	GLU	conflict	UNP O66529
Sc	169	ALA	SER	conflict	UNP O66529
Sc	177	ASP	GLY	conflict	UNP O66529
Sc	191	PHE	ILE	conflict	UNP O66529
Sc	193	ASP	VAL	conflict	UNP O66529
Sd	112	MET	-	initiating methionine	UNP O66529
Sd	113	GLY	-	expression tag	UNP O66529
Sd	114	ILE	MET	conflict	UNP O66529
Sd	115	GLU	GLN	conflict	UNP O66529
Sd	138	THR	ALA	conflict	UNP O66529
Sd	158	GLY	GLU	conflict	UNP O66529
Sd	169	ALA	SER	conflict	UNP O66529
Sd	177	ASP	GLY	conflict	UNP O66529
Sd	191	PHE	ILE	conflict	UNP O66529
Sd	193	ASP	VAL	conflict	UNP O66529
Ta	112	MET	-	initiating methionine	UNP O66529
Ta	113	GLY	-	expression tag	UNP O66529
Ta	114	ILE	MET	conflict	UNP O66529
Ta	115	GLU	GLN	conflict	UNP O66529
Ta	138	THR	ALA	conflict	UNP O66529
Ta	158	GLY	GLU	conflict	UNP O66529
Ta	169	ALA	SER	conflict	UNP O66529
Ta	177	ASP	GLY	conflict	UNP O66529
Ta	191	PHE	ILE	conflict	UNP O66529
Ta	193	ASP	VAL	conflict	UNP O66529
Tb	112	MET	-	initiating methionine	UNP O66529
Tb	113	GLY	-	expression tag	UNP O66529
Tb	114	ILE	MET	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Tb	115	GLU	GLN	conflict	UNP O66529
Tb	138	THR	ALA	conflict	UNP O66529
Tb	158	GLY	GLU	conflict	UNP O66529
Tb	169	ALA	SER	conflict	UNP O66529
Tb	177	ASP	GLY	conflict	UNP O66529
Tb	191	PHE	ILE	conflict	UNP O66529
Tb	193	ASP	VAL	conflict	UNP O66529
Tc	112	MET	-	initiating methionine	UNP O66529
Tc	113	GLY	-	expression tag	UNP O66529
Tc	114	ILE	MET	conflict	UNP O66529
Tc	115	GLU	GLN	conflict	UNP O66529
Tc	138	THR	ALA	conflict	UNP O66529
Tc	158	GLY	GLU	conflict	UNP O66529
Tc	169	ALA	SER	conflict	UNP O66529
Tc	177	ASP	GLY	conflict	UNP O66529
Tc	191	PHE	ILE	conflict	UNP O66529
Tc	193	ASP	VAL	conflict	UNP O66529
Td	112	MET	-	initiating methionine	UNP O66529
Td	113	GLY	-	expression tag	UNP O66529
Td	114	ILE	MET	conflict	UNP O66529
Td	115	GLU	GLN	conflict	UNP O66529
Td	138	THR	ALA	conflict	UNP O66529
Td	158	GLY	GLU	conflict	UNP O66529
Td	169	ALA	SER	conflict	UNP O66529
Td	177	ASP	GLY	conflict	UNP O66529
Td	191	PHE	ILE	conflict	UNP O66529
Td	193	ASP	VAL	conflict	UNP O66529
Ua	112	MET	-	initiating methionine	UNP O66529
Ua	113	GLY	-	expression tag	UNP O66529
Ua	114	ILE	MET	conflict	UNP O66529
Ua	115	GLU	GLN	conflict	UNP O66529
Ua	138	THR	ALA	conflict	UNP O66529
Ua	158	GLY	GLU	conflict	UNP O66529
Ua	169	ALA	SER	conflict	UNP O66529
Ua	177	ASP	GLY	conflict	UNP O66529
Ua	191	PHE	ILE	conflict	UNP O66529
Ua	193	ASP	VAL	conflict	UNP O66529
Ub	112	MET	-	initiating methionine	UNP O66529
Ub	113	GLY	-	expression tag	UNP O66529
Ub	114	ILE	MET	conflict	UNP O66529
Ub	115	GLU	GLN	conflict	UNP O66529
Ub	138	THR	ALA	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Ub	158	GLY	GLU	conflict	UNP O66529
Ub	169	ALA	SER	conflict	UNP O66529
Ub	177	ASP	GLY	conflict	UNP O66529
Ub	191	PHE	ILE	conflict	UNP O66529
Ub	193	ASP	VAL	conflict	UNP O66529
Uc	112	MET	-	initiating methionine	UNP O66529
Uc	113	GLY	-	expression tag	UNP O66529
Uc	114	ILE	MET	conflict	UNP O66529
Uc	115	GLU	GLN	conflict	UNP O66529
Uc	138	THR	ALA	conflict	UNP O66529
Uc	158	GLY	GLU	conflict	UNP O66529
Uc	169	ALA	SER	conflict	UNP O66529
Uc	177	ASP	GLY	conflict	UNP O66529
Uc	191	PHE	ILE	conflict	UNP O66529
Uc	193	ASP	VAL	conflict	UNP O66529
Ud	112	MET	-	initiating methionine	UNP O66529
Ud	113	GLY	-	expression tag	UNP O66529
Ud	114	ILE	MET	conflict	UNP O66529
Ud	115	GLU	GLN	conflict	UNP O66529
Ud	138	THR	ALA	conflict	UNP O66529
Ud	158	GLY	GLU	conflict	UNP O66529
Ud	169	ALA	SER	conflict	UNP O66529
Ud	177	ASP	GLY	conflict	UNP O66529
Ud	191	PHE	ILE	conflict	UNP O66529
Ud	193	ASP	VAL	conflict	UNP O66529
Va	112	MET	-	initiating methionine	UNP O66529
Va	113	GLY	-	expression tag	UNP O66529
Va	114	ILE	MET	conflict	UNP O66529
Va	115	GLU	GLN	conflict	UNP O66529
Va	138	THR	ALA	conflict	UNP O66529
Va	158	GLY	GLU	conflict	UNP O66529
Va	169	ALA	SER	conflict	UNP O66529
Va	177	ASP	GLY	conflict	UNP O66529
Va	191	PHE	ILE	conflict	UNP O66529
Va	193	ASP	VAL	conflict	UNP O66529
Vb	112	MET	-	initiating methionine	UNP O66529
Vb	113	GLY	-	expression tag	UNP O66529
Vb	114	ILE	MET	conflict	UNP O66529
Vb	115	GLU	GLN	conflict	UNP O66529
Vb	138	THR	ALA	conflict	UNP O66529
Vb	158	GLY	GLU	conflict	UNP O66529
Vb	169	ALA	SER	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Vb	177	ASP	GLY	conflict	UNP O66529
Vb	191	PHE	ILE	conflict	UNP O66529
Vb	193	ASP	VAL	conflict	UNP O66529
Vc	112	MET	-	initiating methionine	UNP O66529
Vc	113	GLY	-	expression tag	UNP O66529
Vc	114	ILE	MET	conflict	UNP O66529
Vc	115	GLU	GLN	conflict	UNP O66529
Vc	138	THR	ALA	conflict	UNP O66529
Vc	158	GLY	GLU	conflict	UNP O66529
Vc	169	ALA	SER	conflict	UNP O66529
Vc	177	ASP	GLY	conflict	UNP O66529
Vc	191	PHE	ILE	conflict	UNP O66529
Vc	193	ASP	VAL	conflict	UNP O66529
Vd	112	MET	-	initiating methionine	UNP O66529
Vd	113	GLY	-	expression tag	UNP O66529
Vd	114	ILE	MET	conflict	UNP O66529
Vd	115	GLU	GLN	conflict	UNP O66529
Vd	138	THR	ALA	conflict	UNP O66529
Vd	158	GLY	GLU	conflict	UNP O66529
Vd	169	ALA	SER	conflict	UNP O66529
Vd	177	ASP	GLY	conflict	UNP O66529
Vd	191	PHE	ILE	conflict	UNP O66529
Vd	193	ASP	VAL	conflict	UNP O66529
Wa	112	MET	-	initiating methionine	UNP O66529
Wa	113	GLY	-	expression tag	UNP O66529
Wa	114	ILE	MET	conflict	UNP O66529
Wa	115	GLU	GLN	conflict	UNP O66529
Wa	138	THR	ALA	conflict	UNP O66529
Wa	158	GLY	GLU	conflict	UNP O66529
Wa	169	ALA	SER	conflict	UNP O66529
Wa	177	ASP	GLY	conflict	UNP O66529
Wa	191	PHE	ILE	conflict	UNP O66529
Wa	193	ASP	VAL	conflict	UNP O66529
Wb	112	MET	-	initiating methionine	UNP O66529
Wb	113	GLY	-	expression tag	UNP O66529
Wb	114	ILE	MET	conflict	UNP O66529
Wb	115	GLU	GLN	conflict	UNP O66529
Wb	138	THR	ALA	conflict	UNP O66529
Wb	158	GLY	GLU	conflict	UNP O66529
Wb	169	ALA	SER	conflict	UNP O66529
Wb	177	ASP	GLY	conflict	UNP O66529
Wb	191	PHE	ILE	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Wb	193	ASP	VAL	conflict	UNP O66529
Wc	112	MET	-	initiating methionine	UNP O66529
Wc	113	GLY	-	expression tag	UNP O66529
Wc	114	ILE	MET	conflict	UNP O66529
Wc	115	GLU	GLN	conflict	UNP O66529
Wc	138	THR	ALA	conflict	UNP O66529
Wc	158	GLY	GLU	conflict	UNP O66529
Wc	169	ALA	SER	conflict	UNP O66529
Wc	177	ASP	GLY	conflict	UNP O66529
Wc	191	PHE	ILE	conflict	UNP O66529
Wc	193	ASP	VAL	conflict	UNP O66529
Wd	112	MET	-	initiating methionine	UNP O66529
Wd	113	GLY	-	expression tag	UNP O66529
Wd	114	ILE	MET	conflict	UNP O66529
Wd	115	GLU	GLN	conflict	UNP O66529
Wd	138	THR	ALA	conflict	UNP O66529
Wd	158	GLY	GLU	conflict	UNP O66529
Wd	169	ALA	SER	conflict	UNP O66529
Wd	177	ASP	GLY	conflict	UNP O66529
Wd	191	PHE	ILE	conflict	UNP O66529
Wd	193	ASP	VAL	conflict	UNP O66529
Xa	112	MET	-	initiating methionine	UNP O66529
Xa	113	GLY	-	expression tag	UNP O66529
Xa	114	ILE	MET	conflict	UNP O66529
Xa	115	GLU	GLN	conflict	UNP O66529
Xa	138	THR	ALA	conflict	UNP O66529
Xa	158	GLY	GLU	conflict	UNP O66529
Xa	169	ALA	SER	conflict	UNP O66529
Xa	177	ASP	GLY	conflict	UNP O66529
Xa	191	PHE	ILE	conflict	UNP O66529
Xa	193	ASP	VAL	conflict	UNP O66529
Xb	112	MET	-	initiating methionine	UNP O66529
Xb	113	GLY	-	expression tag	UNP O66529
Xb	114	ILE	MET	conflict	UNP O66529
Xb	115	GLU	GLN	conflict	UNP O66529
Xb	138	THR	ALA	conflict	UNP O66529
Xb	158	GLY	GLU	conflict	UNP O66529
Xb	169	ALA	SER	conflict	UNP O66529
Xb	177	ASP	GLY	conflict	UNP O66529
Xb	191	PHE	ILE	conflict	UNP O66529
Xb	193	ASP	VAL	conflict	UNP O66529
Xc	112	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Xc	113	GLY	-	expression tag	UNP O66529
Xc	114	ILE	MET	conflict	UNP O66529
Xc	115	GLU	GLN	conflict	UNP O66529
Xc	138	THR	ALA	conflict	UNP O66529
Xc	158	GLY	GLU	conflict	UNP O66529
Xc	169	ALA	SER	conflict	UNP O66529
Xc	177	ASP	GLY	conflict	UNP O66529
Xc	191	PHE	ILE	conflict	UNP O66529
Xc	193	ASP	VAL	conflict	UNP O66529
Xd	112	MET	-	initiating methionine	UNP O66529
Xd	113	GLY	-	expression tag	UNP O66529
Xd	114	ILE	MET	conflict	UNP O66529
Xd	115	GLU	GLN	conflict	UNP O66529
Xd	138	THR	ALA	conflict	UNP O66529
Xd	158	GLY	GLU	conflict	UNP O66529
Xd	169	ALA	SER	conflict	UNP O66529
Xd	177	ASP	GLY	conflict	UNP O66529
Xd	191	PHE	ILE	conflict	UNP O66529
Xd	193	ASP	VAL	conflict	UNP O66529
Ya	112	MET	-	initiating methionine	UNP O66529
Ya	113	GLY	-	expression tag	UNP O66529
Ya	114	ILE	MET	conflict	UNP O66529
Ya	115	GLU	GLN	conflict	UNP O66529
Ya	138	THR	ALA	conflict	UNP O66529
Ya	158	GLY	GLU	conflict	UNP O66529
Ya	169	ALA	SER	conflict	UNP O66529
Ya	177	ASP	GLY	conflict	UNP O66529
Ya	191	PHE	ILE	conflict	UNP O66529
Ya	193	ASP	VAL	conflict	UNP O66529
Yb	112	MET	-	initiating methionine	UNP O66529
Yb	113	GLY	-	expression tag	UNP O66529
Yb	114	ILE	MET	conflict	UNP O66529
Yb	115	GLU	GLN	conflict	UNP O66529
Yb	138	THR	ALA	conflict	UNP O66529
Yb	158	GLY	GLU	conflict	UNP O66529
Yb	169	ALA	SER	conflict	UNP O66529
Yb	177	ASP	GLY	conflict	UNP O66529
Yb	191	PHE	ILE	conflict	UNP O66529
Yb	193	ASP	VAL	conflict	UNP O66529
Yc	112	MET	-	initiating methionine	UNP O66529
Yc	113	GLY	-	expression tag	UNP O66529
Yc	114	ILE	MET	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Yc	115	GLU	GLN	conflict	UNP O66529
Yc	138	THR	ALA	conflict	UNP O66529
Yc	158	GLY	GLU	conflict	UNP O66529
Yc	169	ALA	SER	conflict	UNP O66529
Yc	177	ASP	GLY	conflict	UNP O66529
Yc	191	PHE	ILE	conflict	UNP O66529
Yc	193	ASP	VAL	conflict	UNP O66529
Yd	112	MET	-	initiating methionine	UNP O66529
Yd	113	GLY	-	expression tag	UNP O66529
Yd	114	ILE	MET	conflict	UNP O66529
Yd	115	GLU	GLN	conflict	UNP O66529
Yd	138	THR	ALA	conflict	UNP O66529
Yd	158	GLY	GLU	conflict	UNP O66529
Yd	169	ALA	SER	conflict	UNP O66529
Yd	177	ASP	GLY	conflict	UNP O66529
Yd	191	PHE	ILE	conflict	UNP O66529
Yd	193	ASP	VAL	conflict	UNP O66529
Za	112	MET	-	initiating methionine	UNP O66529
Za	113	GLY	-	expression tag	UNP O66529
Za	114	ILE	MET	conflict	UNP O66529
Za	115	GLU	GLN	conflict	UNP O66529
Za	138	THR	ALA	conflict	UNP O66529
Za	158	GLY	GLU	conflict	UNP O66529
Za	169	ALA	SER	conflict	UNP O66529
Za	177	ASP	GLY	conflict	UNP O66529
Za	191	PHE	ILE	conflict	UNP O66529
Za	193	ASP	VAL	conflict	UNP O66529
Zb	112	MET	-	initiating methionine	UNP O66529
Zb	113	GLY	-	expression tag	UNP O66529
Zb	114	ILE	MET	conflict	UNP O66529
Zb	115	GLU	GLN	conflict	UNP O66529
Zb	138	THR	ALA	conflict	UNP O66529
Zb	158	GLY	GLU	conflict	UNP O66529
Zb	169	ALA	SER	conflict	UNP O66529
Zb	177	ASP	GLY	conflict	UNP O66529
Zb	191	PHE	ILE	conflict	UNP O66529
Zb	193	ASP	VAL	conflict	UNP O66529
Zc	112	MET	-	initiating methionine	UNP O66529
Zc	113	GLY	-	expression tag	UNP O66529
Zc	114	ILE	MET	conflict	UNP O66529
Zc	115	GLU	GLN	conflict	UNP O66529
Zc	138	THR	ALA	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
Zc	158	GLY	GLU	conflict	UNP O66529
Zc	169	ALA	SER	conflict	UNP O66529
Zc	177	ASP	GLY	conflict	UNP O66529
Zc	191	PHE	ILE	conflict	UNP O66529
Zc	193	ASP	VAL	conflict	UNP O66529
Zd	112	MET	-	initiating methionine	UNP O66529
Zd	113	GLY	-	expression tag	UNP O66529
Zd	114	ILE	MET	conflict	UNP O66529
Zd	115	GLU	GLN	conflict	UNP O66529
Zd	138	THR	ALA	conflict	UNP O66529
Zd	158	GLY	GLU	conflict	UNP O66529
Zd	169	ALA	SER	conflict	UNP O66529
Zd	177	ASP	GLY	conflict	UNP O66529
Zd	191	PHE	ILE	conflict	UNP O66529
Zd	193	ASP	VAL	conflict	UNP O66529
aa	112	MET	-	initiating methionine	UNP O66529
aa	113	GLY	-	expression tag	UNP O66529
aa	114	ILE	MET	conflict	UNP O66529
aa	115	GLU	GLN	conflict	UNP O66529
aa	138	THR	ALA	conflict	UNP O66529
aa	158	GLY	GLU	conflict	UNP O66529
aa	169	ALA	SER	conflict	UNP O66529
aa	177	ASP	GLY	conflict	UNP O66529
aa	191	PHE	ILE	conflict	UNP O66529
aa	193	ASP	VAL	conflict	UNP O66529
ab	112	MET	-	initiating methionine	UNP O66529
ab	113	GLY	-	expression tag	UNP O66529
ab	114	ILE	MET	conflict	UNP O66529
ab	115	GLU	GLN	conflict	UNP O66529
ab	138	THR	ALA	conflict	UNP O66529
ab	158	GLY	GLU	conflict	UNP O66529
ab	169	ALA	SER	conflict	UNP O66529
ab	177	ASP	GLY	conflict	UNP O66529
ab	191	PHE	ILE	conflict	UNP O66529
ab	193	ASP	VAL	conflict	UNP O66529
ac	112	MET	-	initiating methionine	UNP O66529
ac	113	GLY	-	expression tag	UNP O66529
ac	114	ILE	MET	conflict	UNP O66529
ac	115	GLU	GLN	conflict	UNP O66529
ac	138	THR	ALA	conflict	UNP O66529
ac	158	GLY	GLU	conflict	UNP O66529
ac	169	ALA	SER	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
ac	177	ASP	GLY	conflict	UNP O66529
ac	191	PHE	ILE	conflict	UNP O66529
ac	193	ASP	VAL	conflict	UNP O66529
ad	112	MET	-	initiating methionine	UNP O66529
ad	113	GLY	-	expression tag	UNP O66529
ad	114	ILE	MET	conflict	UNP O66529
ad	115	GLU	GLN	conflict	UNP O66529
ad	138	THR	ALA	conflict	UNP O66529
ad	158	GLY	GLU	conflict	UNP O66529
ad	169	ALA	SER	conflict	UNP O66529
ad	177	ASP	GLY	conflict	UNP O66529
ad	191	PHE	ILE	conflict	UNP O66529
ad	193	ASP	VAL	conflict	UNP O66529
ba	112	MET	-	initiating methionine	UNP O66529
ba	113	GLY	-	expression tag	UNP O66529
ba	114	ILE	MET	conflict	UNP O66529
ba	115	GLU	GLN	conflict	UNP O66529
ba	138	THR	ALA	conflict	UNP O66529
ba	158	GLY	GLU	conflict	UNP O66529
ba	169	ALA	SER	conflict	UNP O66529
ba	177	ASP	GLY	conflict	UNP O66529
ba	191	PHE	ILE	conflict	UNP O66529
ba	193	ASP	VAL	conflict	UNP O66529
bb	112	MET	-	initiating methionine	UNP O66529
bb	113	GLY	-	expression tag	UNP O66529
bb	114	ILE	MET	conflict	UNP O66529
bb	115	GLU	GLN	conflict	UNP O66529
bb	138	THR	ALA	conflict	UNP O66529
bb	158	GLY	GLU	conflict	UNP O66529
bb	169	ALA	SER	conflict	UNP O66529
bb	177	ASP	GLY	conflict	UNP O66529
bb	191	PHE	ILE	conflict	UNP O66529
bb	193	ASP	VAL	conflict	UNP O66529
bc	112	MET	-	initiating methionine	UNP O66529
bc	113	GLY	-	expression tag	UNP O66529
bc	114	ILE	MET	conflict	UNP O66529
bc	115	GLU	GLN	conflict	UNP O66529
bc	138	THR	ALA	conflict	UNP O66529
bc	158	GLY	GLU	conflict	UNP O66529
bc	169	ALA	SER	conflict	UNP O66529
bc	177	ASP	GLY	conflict	UNP O66529
bc	191	PHE	ILE	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
bc	193	ASP	VAL	conflict	UNP O66529
bd	112	MET	-	initiating methionine	UNP O66529
bd	113	GLY	-	expression tag	UNP O66529
bd	114	ILE	MET	conflict	UNP O66529
bd	115	GLU	GLN	conflict	UNP O66529
bd	138	THR	ALA	conflict	UNP O66529
bd	158	GLY	GLU	conflict	UNP O66529
bd	169	ALA	SER	conflict	UNP O66529
bd	177	ASP	GLY	conflict	UNP O66529
bd	191	PHE	ILE	conflict	UNP O66529
bd	193	ASP	VAL	conflict	UNP O66529
ca	112	MET	-	initiating methionine	UNP O66529
ca	113	GLY	-	expression tag	UNP O66529
ca	114	ILE	MET	conflict	UNP O66529
ca	115	GLU	GLN	conflict	UNP O66529
ca	138	THR	ALA	conflict	UNP O66529
ca	158	GLY	GLU	conflict	UNP O66529
ca	169	ALA	SER	conflict	UNP O66529
ca	177	ASP	GLY	conflict	UNP O66529
ca	191	PHE	ILE	conflict	UNP O66529
ca	193	ASP	VAL	conflict	UNP O66529
cb	112	MET	-	initiating methionine	UNP O66529
cb	113	GLY	-	expression tag	UNP O66529
cb	114	ILE	MET	conflict	UNP O66529
cb	115	GLU	GLN	conflict	UNP O66529
cb	138	THR	ALA	conflict	UNP O66529
cb	158	GLY	GLU	conflict	UNP O66529
cb	169	ALA	SER	conflict	UNP O66529
cb	177	ASP	GLY	conflict	UNP O66529
cb	191	PHE	ILE	conflict	UNP O66529
cb	193	ASP	VAL	conflict	UNP O66529
cc	112	MET	-	initiating methionine	UNP O66529
cc	113	GLY	-	expression tag	UNP O66529
cc	114	ILE	MET	conflict	UNP O66529
cc	115	GLU	GLN	conflict	UNP O66529
cc	138	THR	ALA	conflict	UNP O66529
cc	158	GLY	GLU	conflict	UNP O66529
cc	169	ALA	SER	conflict	UNP O66529
cc	177	ASP	GLY	conflict	UNP O66529
cc	191	PHE	ILE	conflict	UNP O66529
cc	193	ASP	VAL	conflict	UNP O66529
cd	112	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
cd	113	GLY	-	expression tag	UNP O66529
cd	114	ILE	MET	conflict	UNP O66529
cd	115	GLU	GLN	conflict	UNP O66529
cd	138	THR	ALA	conflict	UNP O66529
cd	158	GLY	GLU	conflict	UNP O66529
cd	169	ALA	SER	conflict	UNP O66529
cd	177	ASP	GLY	conflict	UNP O66529
cd	191	PHE	ILE	conflict	UNP O66529
cd	193	ASP	VAL	conflict	UNP O66529
da	112	MET	-	initiating methionine	UNP O66529
da	113	GLY	-	expression tag	UNP O66529
da	114	ILE	MET	conflict	UNP O66529
da	115	GLU	GLN	conflict	UNP O66529
da	138	THR	ALA	conflict	UNP O66529
da	158	GLY	GLU	conflict	UNP O66529
da	169	ALA	SER	conflict	UNP O66529
da	177	ASP	GLY	conflict	UNP O66529
da	191	PHE	ILE	conflict	UNP O66529
da	193	ASP	VAL	conflict	UNP O66529
db	112	MET	-	initiating methionine	UNP O66529
db	113	GLY	-	expression tag	UNP O66529
db	114	ILE	MET	conflict	UNP O66529
db	115	GLU	GLN	conflict	UNP O66529
db	138	THR	ALA	conflict	UNP O66529
db	158	GLY	GLU	conflict	UNP O66529
db	169	ALA	SER	conflict	UNP O66529
db	177	ASP	GLY	conflict	UNP O66529
db	191	PHE	ILE	conflict	UNP O66529
db	193	ASP	VAL	conflict	UNP O66529
dc	112	MET	-	initiating methionine	UNP O66529
dc	113	GLY	-	expression tag	UNP O66529
dc	114	ILE	MET	conflict	UNP O66529
dc	115	GLU	GLN	conflict	UNP O66529
dc	138	THR	ALA	conflict	UNP O66529
dc	158	GLY	GLU	conflict	UNP O66529
dc	169	ALA	SER	conflict	UNP O66529
dc	177	ASP	GLY	conflict	UNP O66529
dc	191	PHE	ILE	conflict	UNP O66529
dc	193	ASP	VAL	conflict	UNP O66529
dd	112	MET	-	initiating methionine	UNP O66529
dd	113	GLY	-	expression tag	UNP O66529
dd	114	ILE	MET	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
dd	115	GLU	GLN	conflict	UNP O66529
dd	138	THR	ALA	conflict	UNP O66529
dd	158	GLY	GLU	conflict	UNP O66529
dd	169	ALA	SER	conflict	UNP O66529
dd	177	ASP	GLY	conflict	UNP O66529
dd	191	PHE	ILE	conflict	UNP O66529
dd	193	ASP	VAL	conflict	UNP O66529
ea	112	MET	-	initiating methionine	UNP O66529
ea	113	GLY	-	expression tag	UNP O66529
ea	114	ILE	MET	conflict	UNP O66529
ea	115	GLU	GLN	conflict	UNP O66529
ea	138	THR	ALA	conflict	UNP O66529
ea	158	GLY	GLU	conflict	UNP O66529
ea	169	ALA	SER	conflict	UNP O66529
ea	177	ASP	GLY	conflict	UNP O66529
ea	191	PHE	ILE	conflict	UNP O66529
ea	193	ASP	VAL	conflict	UNP O66529
eb	112	MET	-	initiating methionine	UNP O66529
eb	113	GLY	-	expression tag	UNP O66529
eb	114	ILE	MET	conflict	UNP O66529
eb	115	GLU	GLN	conflict	UNP O66529
eb	138	THR	ALA	conflict	UNP O66529
eb	158	GLY	GLU	conflict	UNP O66529
eb	169	ALA	SER	conflict	UNP O66529
eb	177	ASP	GLY	conflict	UNP O66529
eb	191	PHE	ILE	conflict	UNP O66529
eb	193	ASP	VAL	conflict	UNP O66529
ec	112	MET	-	initiating methionine	UNP O66529
ec	113	GLY	-	expression tag	UNP O66529
ec	114	ILE	MET	conflict	UNP O66529
ec	115	GLU	GLN	conflict	UNP O66529
ec	138	THR	ALA	conflict	UNP O66529
ec	158	GLY	GLU	conflict	UNP O66529
ec	169	ALA	SER	conflict	UNP O66529
ec	177	ASP	GLY	conflict	UNP O66529
ec	191	PHE	ILE	conflict	UNP O66529
ec	193	ASP	VAL	conflict	UNP O66529
ed	112	MET	-	initiating methionine	UNP O66529
ed	113	GLY	-	expression tag	UNP O66529
ed	114	ILE	MET	conflict	UNP O66529
ed	115	GLU	GLN	conflict	UNP O66529
ed	138	THR	ALA	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
ed	158	GLY	GLU	conflict	UNP O66529
ed	169	ALA	SER	conflict	UNP O66529
ed	177	ASP	GLY	conflict	UNP O66529
ed	191	PHE	ILE	conflict	UNP O66529
ed	193	ASP	VAL	conflict	UNP O66529
fa	112	MET	-	initiating methionine	UNP O66529
fa	113	GLY	-	expression tag	UNP O66529
fa	114	ILE	MET	conflict	UNP O66529
fa	115	GLU	GLN	conflict	UNP O66529
fa	138	THR	ALA	conflict	UNP O66529
fa	158	GLY	GLU	conflict	UNP O66529
fa	169	ALA	SER	conflict	UNP O66529
fa	177	ASP	GLY	conflict	UNP O66529
fa	191	PHE	ILE	conflict	UNP O66529
fa	193	ASP	VAL	conflict	UNP O66529
fb	112	MET	-	initiating methionine	UNP O66529
fb	113	GLY	-	expression tag	UNP O66529
fb	114	ILE	MET	conflict	UNP O66529
fb	115	GLU	GLN	conflict	UNP O66529
fb	138	THR	ALA	conflict	UNP O66529
fb	158	GLY	GLU	conflict	UNP O66529
fb	169	ALA	SER	conflict	UNP O66529
fb	177	ASP	GLY	conflict	UNP O66529
fb	191	PHE	ILE	conflict	UNP O66529
fb	193	ASP	VAL	conflict	UNP O66529
fc	112	MET	-	initiating methionine	UNP O66529
fc	113	GLY	-	expression tag	UNP O66529
fc	114	ILE	MET	conflict	UNP O66529
fc	115	GLU	GLN	conflict	UNP O66529
fc	138	THR	ALA	conflict	UNP O66529
fc	158	GLY	GLU	conflict	UNP O66529
fc	169	ALA	SER	conflict	UNP O66529
fc	177	ASP	GLY	conflict	UNP O66529
fc	191	PHE	ILE	conflict	UNP O66529
fc	193	ASP	VAL	conflict	UNP O66529
fd	112	MET	-	initiating methionine	UNP O66529
fd	113	GLY	-	expression tag	UNP O66529
fd	114	ILE	MET	conflict	UNP O66529
fd	115	GLU	GLN	conflict	UNP O66529
fd	138	THR	ALA	conflict	UNP O66529
fd	158	GLY	GLU	conflict	UNP O66529
fd	169	ALA	SER	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
fd	177	ASP	GLY	conflict	UNP O66529
fd	191	PHE	ILE	conflict	UNP O66529
fd	193	ASP	VAL	conflict	UNP O66529
ga	112	MET	-	initiating methionine	UNP O66529
ga	113	GLY	-	expression tag	UNP O66529
ga	114	ILE	MET	conflict	UNP O66529
ga	115	GLU	GLN	conflict	UNP O66529
ga	138	THR	ALA	conflict	UNP O66529
ga	158	GLY	GLU	conflict	UNP O66529
ga	169	ALA	SER	conflict	UNP O66529
ga	177	ASP	GLY	conflict	UNP O66529
ga	191	PHE	ILE	conflict	UNP O66529
ga	193	ASP	VAL	conflict	UNP O66529
gb	112	MET	-	initiating methionine	UNP O66529
gb	113	GLY	-	expression tag	UNP O66529
gb	114	ILE	MET	conflict	UNP O66529
gb	115	GLU	GLN	conflict	UNP O66529
gb	138	THR	ALA	conflict	UNP O66529
gb	158	GLY	GLU	conflict	UNP O66529
gb	169	ALA	SER	conflict	UNP O66529
gb	177	ASP	GLY	conflict	UNP O66529
gb	191	PHE	ILE	conflict	UNP O66529
gb	193	ASP	VAL	conflict	UNP O66529
gc	112	MET	-	initiating methionine	UNP O66529
gc	113	GLY	-	expression tag	UNP O66529
gc	114	ILE	MET	conflict	UNP O66529
gc	115	GLU	GLN	conflict	UNP O66529
gc	138	THR	ALA	conflict	UNP O66529
gc	158	GLY	GLU	conflict	UNP O66529
gc	169	ALA	SER	conflict	UNP O66529
gc	177	ASP	GLY	conflict	UNP O66529
gc	191	PHE	ILE	conflict	UNP O66529
gc	193	ASP	VAL	conflict	UNP O66529
gd	112	MET	-	initiating methionine	UNP O66529
gd	113	GLY	-	expression tag	UNP O66529
gd	114	ILE	MET	conflict	UNP O66529
gd	115	GLU	GLN	conflict	UNP O66529
gd	138	THR	ALA	conflict	UNP O66529
gd	158	GLY	GLU	conflict	UNP O66529
gd	169	ALA	SER	conflict	UNP O66529
gd	177	ASP	GLY	conflict	UNP O66529
gd	191	PHE	ILE	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
gd	193	ASP	VAL	conflict	UNP O66529
ha	112	MET	-	initiating methionine	UNP O66529
ha	113	GLY	-	expression tag	UNP O66529
ha	114	ILE	MET	conflict	UNP O66529
ha	115	GLU	GLN	conflict	UNP O66529
ha	138	THR	ALA	conflict	UNP O66529
ha	158	GLY	GLU	conflict	UNP O66529
ha	169	ALA	SER	conflict	UNP O66529
ha	177	ASP	GLY	conflict	UNP O66529
ha	191	PHE	ILE	conflict	UNP O66529
ha	193	ASP	VAL	conflict	UNP O66529
hb	112	MET	-	initiating methionine	UNP O66529
hb	113	GLY	-	expression tag	UNP O66529
hb	114	ILE	MET	conflict	UNP O66529
hb	115	GLU	GLN	conflict	UNP O66529
hb	138	THR	ALA	conflict	UNP O66529
hb	158	GLY	GLU	conflict	UNP O66529
hb	169	ALA	SER	conflict	UNP O66529
hb	177	ASP	GLY	conflict	UNP O66529
hb	191	PHE	ILE	conflict	UNP O66529
hb	193	ASP	VAL	conflict	UNP O66529
hc	112	MET	-	initiating methionine	UNP O66529
hc	113	GLY	-	expression tag	UNP O66529
hc	114	ILE	MET	conflict	UNP O66529
hc	115	GLU	GLN	conflict	UNP O66529
hc	138	THR	ALA	conflict	UNP O66529
hc	158	GLY	GLU	conflict	UNP O66529
hc	169	ALA	SER	conflict	UNP O66529
hc	177	ASP	GLY	conflict	UNP O66529
hc	191	PHE	ILE	conflict	UNP O66529
hc	193	ASP	VAL	conflict	UNP O66529
hd	112	MET	-	initiating methionine	UNP O66529
hd	113	GLY	-	expression tag	UNP O66529
hd	114	ILE	MET	conflict	UNP O66529
hd	115	GLU	GLN	conflict	UNP O66529
hd	138	THR	ALA	conflict	UNP O66529
hd	158	GLY	GLU	conflict	UNP O66529
hd	169	ALA	SER	conflict	UNP O66529
hd	177	ASP	GLY	conflict	UNP O66529
hd	191	PHE	ILE	conflict	UNP O66529
hd	193	ASP	VAL	conflict	UNP O66529
ia	112	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
ia	113	GLY	-	expression tag	UNP O66529
ia	114	ILE	MET	conflict	UNP O66529
ia	115	GLU	GLN	conflict	UNP O66529
ia	138	THR	ALA	conflict	UNP O66529
ia	158	GLY	GLU	conflict	UNP O66529
ia	169	ALA	SER	conflict	UNP O66529
ia	177	ASP	GLY	conflict	UNP O66529
ia	191	PHE	ILE	conflict	UNP O66529
ia	193	ASP	VAL	conflict	UNP O66529
ib	112	MET	-	initiating methionine	UNP O66529
ib	113	GLY	-	expression tag	UNP O66529
ib	114	ILE	MET	conflict	UNP O66529
ib	115	GLU	GLN	conflict	UNP O66529
ib	138	THR	ALA	conflict	UNP O66529
ib	158	GLY	GLU	conflict	UNP O66529
ib	169	ALA	SER	conflict	UNP O66529
ib	177	ASP	GLY	conflict	UNP O66529
ib	191	PHE	ILE	conflict	UNP O66529
ib	193	ASP	VAL	conflict	UNP O66529
ic	112	MET	-	initiating methionine	UNP O66529
ic	113	GLY	-	expression tag	UNP O66529
ic	114	ILE	MET	conflict	UNP O66529
ic	115	GLU	GLN	conflict	UNP O66529
ic	138	THR	ALA	conflict	UNP O66529
ic	158	GLY	GLU	conflict	UNP O66529
ic	169	ALA	SER	conflict	UNP O66529
ic	177	ASP	GLY	conflict	UNP O66529
ic	191	PHE	ILE	conflict	UNP O66529
ic	193	ASP	VAL	conflict	UNP O66529
id	112	MET	-	initiating methionine	UNP O66529
id	113	GLY	-	expression tag	UNP O66529
id	114	ILE	MET	conflict	UNP O66529
id	115	GLU	GLN	conflict	UNP O66529
id	138	THR	ALA	conflict	UNP O66529
id	158	GLY	GLU	conflict	UNP O66529
id	169	ALA	SER	conflict	UNP O66529
id	177	ASP	GLY	conflict	UNP O66529
id	191	PHE	ILE	conflict	UNP O66529
id	193	ASP	VAL	conflict	UNP O66529
ja	112	MET	-	initiating methionine	UNP O66529
ja	113	GLY	-	expression tag	UNP O66529
ja	114	ILE	MET	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
ja	115	GLU	GLN	conflict	UNP O66529
ja	138	THR	ALA	conflict	UNP O66529
ja	158	GLY	GLU	conflict	UNP O66529
ja	169	ALA	SER	conflict	UNP O66529
ja	177	ASP	GLY	conflict	UNP O66529
ja	191	PHE	ILE	conflict	UNP O66529
ja	193	ASP	VAL	conflict	UNP O66529
jb	112	MET	-	initiating methionine	UNP O66529
jb	113	GLY	-	expression tag	UNP O66529
jb	114	ILE	MET	conflict	UNP O66529
jb	115	GLU	GLN	conflict	UNP O66529
jb	138	THR	ALA	conflict	UNP O66529
jb	158	GLY	GLU	conflict	UNP O66529
jb	169	ALA	SER	conflict	UNP O66529
jb	177	ASP	GLY	conflict	UNP O66529
jb	191	PHE	ILE	conflict	UNP O66529
jb	193	ASP	VAL	conflict	UNP O66529
jc	112	MET	-	initiating methionine	UNP O66529
jc	113	GLY	-	expression tag	UNP O66529
jc	114	ILE	MET	conflict	UNP O66529
jc	115	GLU	GLN	conflict	UNP O66529
jc	138	THR	ALA	conflict	UNP O66529
jc	158	GLY	GLU	conflict	UNP O66529
jc	169	ALA	SER	conflict	UNP O66529
jc	177	ASP	GLY	conflict	UNP O66529
jc	191	PHE	ILE	conflict	UNP O66529
jc	193	ASP	VAL	conflict	UNP O66529
jd	112	MET	-	initiating methionine	UNP O66529
jd	113	GLY	-	expression tag	UNP O66529
jd	114	ILE	MET	conflict	UNP O66529
jd	115	GLU	GLN	conflict	UNP O66529
jd	138	THR	ALA	conflict	UNP O66529
jd	158	GLY	GLU	conflict	UNP O66529
jd	169	ALA	SER	conflict	UNP O66529
jd	177	ASP	GLY	conflict	UNP O66529
jd	191	PHE	ILE	conflict	UNP O66529
jd	193	ASP	VAL	conflict	UNP O66529
ka	112	MET	-	initiating methionine	UNP O66529
ka	113	GLY	-	expression tag	UNP O66529
ka	114	ILE	MET	conflict	UNP O66529
ka	115	GLU	GLN	conflict	UNP O66529
ka	138	THR	ALA	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
ka	158	GLY	GLU	conflict	UNP O66529
ka	169	ALA	SER	conflict	UNP O66529
ka	177	ASP	GLY	conflict	UNP O66529
ka	191	PHE	ILE	conflict	UNP O66529
ka	193	ASP	VAL	conflict	UNP O66529
kb	112	MET	-	initiating methionine	UNP O66529
kb	113	GLY	-	expression tag	UNP O66529
kb	114	ILE	MET	conflict	UNP O66529
kb	115	GLU	GLN	conflict	UNP O66529
kb	138	THR	ALA	conflict	UNP O66529
kb	158	GLY	GLU	conflict	UNP O66529
kb	169	ALA	SER	conflict	UNP O66529
kb	177	ASP	GLY	conflict	UNP O66529
kb	191	PHE	ILE	conflict	UNP O66529
kb	193	ASP	VAL	conflict	UNP O66529
kc	112	MET	-	initiating methionine	UNP O66529
kc	113	GLY	-	expression tag	UNP O66529
kc	114	ILE	MET	conflict	UNP O66529
kc	115	GLU	GLN	conflict	UNP O66529
kc	138	THR	ALA	conflict	UNP O66529
kc	158	GLY	GLU	conflict	UNP O66529
kc	169	ALA	SER	conflict	UNP O66529
kc	177	ASP	GLY	conflict	UNP O66529
kc	191	PHE	ILE	conflict	UNP O66529
kc	193	ASP	VAL	conflict	UNP O66529
kd	112	MET	-	initiating methionine	UNP O66529
kd	113	GLY	-	expression tag	UNP O66529
kd	114	ILE	MET	conflict	UNP O66529
kd	115	GLU	GLN	conflict	UNP O66529
kd	138	THR	ALA	conflict	UNP O66529
kd	158	GLY	GLU	conflict	UNP O66529
kd	169	ALA	SER	conflict	UNP O66529
kd	177	ASP	GLY	conflict	UNP O66529
kd	191	PHE	ILE	conflict	UNP O66529
kd	193	ASP	VAL	conflict	UNP O66529
la	112	MET	-	initiating methionine	UNP O66529
la	113	GLY	-	expression tag	UNP O66529
la	114	ILE	MET	conflict	UNP O66529
la	115	GLU	GLN	conflict	UNP O66529
la	138	THR	ALA	conflict	UNP O66529
la	158	GLY	GLU	conflict	UNP O66529
la	169	ALA	SER	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
la	177	ASP	GLY	conflict	UNP O66529
la	191	PHE	ILE	conflict	UNP O66529
la	193	ASP	VAL	conflict	UNP O66529
lb	112	MET	-	initiating methionine	UNP O66529
lb	113	GLY	-	expression tag	UNP O66529
lb	114	ILE	MET	conflict	UNP O66529
lb	115	GLU	GLN	conflict	UNP O66529
lb	138	THR	ALA	conflict	UNP O66529
lb	158	GLY	GLU	conflict	UNP O66529
lb	169	ALA	SER	conflict	UNP O66529
lb	177	ASP	GLY	conflict	UNP O66529
lb	191	PHE	ILE	conflict	UNP O66529
lb	193	ASP	VAL	conflict	UNP O66529
lc	112	MET	-	initiating methionine	UNP O66529
lc	113	GLY	-	expression tag	UNP O66529
lc	114	ILE	MET	conflict	UNP O66529
lc	115	GLU	GLN	conflict	UNP O66529
lc	138	THR	ALA	conflict	UNP O66529
lc	158	GLY	GLU	conflict	UNP O66529
lc	169	ALA	SER	conflict	UNP O66529
lc	177	ASP	GLY	conflict	UNP O66529
lc	191	PHE	ILE	conflict	UNP O66529
lc	193	ASP	VAL	conflict	UNP O66529
ld	112	MET	-	initiating methionine	UNP O66529
ld	113	GLY	-	expression tag	UNP O66529
ld	114	ILE	MET	conflict	UNP O66529
ld	115	GLU	GLN	conflict	UNP O66529
ld	138	THR	ALA	conflict	UNP O66529
ld	158	GLY	GLU	conflict	UNP O66529
ld	169	ALA	SER	conflict	UNP O66529
ld	177	ASP	GLY	conflict	UNP O66529
ld	191	PHE	ILE	conflict	UNP O66529
ld	193	ASP	VAL	conflict	UNP O66529
ma	112	MET	-	initiating methionine	UNP O66529
ma	113	GLY	-	expression tag	UNP O66529
ma	114	ILE	MET	conflict	UNP O66529
ma	115	GLU	GLN	conflict	UNP O66529
ma	138	THR	ALA	conflict	UNP O66529
ma	158	GLY	GLU	conflict	UNP O66529
ma	169	ALA	SER	conflict	UNP O66529
ma	177	ASP	GLY	conflict	UNP O66529
ma	191	PHE	ILE	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
ma	193	ASP	VAL	conflict	UNP O66529
mb	112	MET	-	initiating methionine	UNP O66529
mb	113	GLY	-	expression tag	UNP O66529
mb	114	ILE	MET	conflict	UNP O66529
mb	115	GLU	GLN	conflict	UNP O66529
mb	138	THR	ALA	conflict	UNP O66529
mb	158	GLY	GLU	conflict	UNP O66529
mb	169	ALA	SER	conflict	UNP O66529
mb	177	ASP	GLY	conflict	UNP O66529
mb	191	PHE	ILE	conflict	UNP O66529
mb	193	ASP	VAL	conflict	UNP O66529
mc	112	MET	-	initiating methionine	UNP O66529
mc	113	GLY	-	expression tag	UNP O66529
mc	114	ILE	MET	conflict	UNP O66529
mc	115	GLU	GLN	conflict	UNP O66529
mc	138	THR	ALA	conflict	UNP O66529
mc	158	GLY	GLU	conflict	UNP O66529
mc	169	ALA	SER	conflict	UNP O66529
mc	177	ASP	GLY	conflict	UNP O66529
mc	191	PHE	ILE	conflict	UNP O66529
mc	193	ASP	VAL	conflict	UNP O66529
md	112	MET	-	initiating methionine	UNP O66529
md	113	GLY	-	expression tag	UNP O66529
md	114	ILE	MET	conflict	UNP O66529
md	115	GLU	GLN	conflict	UNP O66529
md	138	THR	ALA	conflict	UNP O66529
md	158	GLY	GLU	conflict	UNP O66529
md	169	ALA	SER	conflict	UNP O66529
md	177	ASP	GLY	conflict	UNP O66529
md	191	PHE	ILE	conflict	UNP O66529
md	193	ASP	VAL	conflict	UNP O66529
na	112	MET	-	initiating methionine	UNP O66529
na	113	GLY	-	expression tag	UNP O66529
na	114	ILE	MET	conflict	UNP O66529
na	115	GLU	GLN	conflict	UNP O66529
na	138	THR	ALA	conflict	UNP O66529
na	158	GLY	GLU	conflict	UNP O66529
na	169	ALA	SER	conflict	UNP O66529
na	177	ASP	GLY	conflict	UNP O66529
na	191	PHE	ILE	conflict	UNP O66529
na	193	ASP	VAL	conflict	UNP O66529
nb	112	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
nb	113	GLY	-	expression tag	UNP O66529
nb	114	ILE	MET	conflict	UNP O66529
nb	115	GLU	GLN	conflict	UNP O66529
nb	138	THR	ALA	conflict	UNP O66529
nb	158	GLY	GLU	conflict	UNP O66529
nb	169	ALA	SER	conflict	UNP O66529
nb	177	ASP	GLY	conflict	UNP O66529
nb	191	PHE	ILE	conflict	UNP O66529
nb	193	ASP	VAL	conflict	UNP O66529
nc	112	MET	-	initiating methionine	UNP O66529
nc	113	GLY	-	expression tag	UNP O66529
nc	114	ILE	MET	conflict	UNP O66529
nc	115	GLU	GLN	conflict	UNP O66529
nc	138	THR	ALA	conflict	UNP O66529
nc	158	GLY	GLU	conflict	UNP O66529
nc	169	ALA	SER	conflict	UNP O66529
nc	177	ASP	GLY	conflict	UNP O66529
nc	191	PHE	ILE	conflict	UNP O66529
nc	193	ASP	VAL	conflict	UNP O66529
nd	112	MET	-	initiating methionine	UNP O66529
nd	113	GLY	-	expression tag	UNP O66529
nd	114	ILE	MET	conflict	UNP O66529
nd	115	GLU	GLN	conflict	UNP O66529
nd	138	THR	ALA	conflict	UNP O66529
nd	158	GLY	GLU	conflict	UNP O66529
nd	169	ALA	SER	conflict	UNP O66529
nd	177	ASP	GLY	conflict	UNP O66529
nd	191	PHE	ILE	conflict	UNP O66529
nd	193	ASP	VAL	conflict	UNP O66529
oa	112	MET	-	initiating methionine	UNP O66529
oa	113	GLY	-	expression tag	UNP O66529
oa	114	ILE	MET	conflict	UNP O66529
oa	115	GLU	GLN	conflict	UNP O66529
oa	138	THR	ALA	conflict	UNP O66529
oa	158	GLY	GLU	conflict	UNP O66529
oa	169	ALA	SER	conflict	UNP O66529
oa	177	ASP	GLY	conflict	UNP O66529
oa	191	PHE	ILE	conflict	UNP O66529
oa	193	ASP	VAL	conflict	UNP O66529
ob	112	MET	-	initiating methionine	UNP O66529
ob	113	GLY	-	expression tag	UNP O66529
ob	114	ILE	MET	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
ob	115	GLU	GLN	conflict	UNP O66529
ob	138	THR	ALA	conflict	UNP O66529
ob	158	GLY	GLU	conflict	UNP O66529
ob	169	ALA	SER	conflict	UNP O66529
ob	177	ASP	GLY	conflict	UNP O66529
ob	191	PHE	ILE	conflict	UNP O66529
ob	193	ASP	VAL	conflict	UNP O66529
oc	112	MET	-	initiating methionine	UNP O66529
oc	113	GLY	-	expression tag	UNP O66529
oc	114	ILE	MET	conflict	UNP O66529
oc	115	GLU	GLN	conflict	UNP O66529
oc	138	THR	ALA	conflict	UNP O66529
oc	158	GLY	GLU	conflict	UNP O66529
oc	169	ALA	SER	conflict	UNP O66529
oc	177	ASP	GLY	conflict	UNP O66529
oc	191	PHE	ILE	conflict	UNP O66529
oc	193	ASP	VAL	conflict	UNP O66529
od	112	MET	-	initiating methionine	UNP O66529
od	113	GLY	-	expression tag	UNP O66529
od	114	ILE	MET	conflict	UNP O66529
od	115	GLU	GLN	conflict	UNP O66529
od	138	THR	ALA	conflict	UNP O66529
od	158	GLY	GLU	conflict	UNP O66529
od	169	ALA	SER	conflict	UNP O66529
od	177	ASP	GLY	conflict	UNP O66529
od	191	PHE	ILE	conflict	UNP O66529
od	193	ASP	VAL	conflict	UNP O66529
pa	112	MET	-	initiating methionine	UNP O66529
pa	113	GLY	-	expression tag	UNP O66529
pa	114	ILE	MET	conflict	UNP O66529
pa	115	GLU	GLN	conflict	UNP O66529
pa	138	THR	ALA	conflict	UNP O66529
pa	158	GLY	GLU	conflict	UNP O66529
pa	169	ALA	SER	conflict	UNP O66529
pa	177	ASP	GLY	conflict	UNP O66529
pa	191	PHE	ILE	conflict	UNP O66529
pa	193	ASP	VAL	conflict	UNP O66529
pb	112	MET	-	initiating methionine	UNP O66529
pb	113	GLY	-	expression tag	UNP O66529
pb	114	ILE	MET	conflict	UNP O66529
pb	115	GLU	GLN	conflict	UNP O66529
pb	138	THR	ALA	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
pb	158	GLY	GLU	conflict	UNP O66529
pb	169	ALA	SER	conflict	UNP O66529
pb	177	ASP	GLY	conflict	UNP O66529
pb	191	PHE	ILE	conflict	UNP O66529
pb	193	ASP	VAL	conflict	UNP O66529
pc	112	MET	-	initiating methionine	UNP O66529
pc	113	GLY	-	expression tag	UNP O66529
pc	114	ILE	MET	conflict	UNP O66529
pc	115	GLU	GLN	conflict	UNP O66529
pc	138	THR	ALA	conflict	UNP O66529
pc	158	GLY	GLU	conflict	UNP O66529
pc	169	ALA	SER	conflict	UNP O66529
pc	177	ASP	GLY	conflict	UNP O66529
pc	191	PHE	ILE	conflict	UNP O66529
pc	193	ASP	VAL	conflict	UNP O66529
pd	112	MET	-	initiating methionine	UNP O66529
pd	113	GLY	-	expression tag	UNP O66529
pd	114	ILE	MET	conflict	UNP O66529
pd	115	GLU	GLN	conflict	UNP O66529
pd	138	THR	ALA	conflict	UNP O66529
pd	158	GLY	GLU	conflict	UNP O66529
pd	169	ALA	SER	conflict	UNP O66529
pd	177	ASP	GLY	conflict	UNP O66529
pd	191	PHE	ILE	conflict	UNP O66529
pd	193	ASP	VAL	conflict	UNP O66529
qa	112	MET	-	initiating methionine	UNP O66529
qa	113	GLY	-	expression tag	UNP O66529
qa	114	ILE	MET	conflict	UNP O66529
qa	115	GLU	GLN	conflict	UNP O66529
qa	138	THR	ALA	conflict	UNP O66529
qa	158	GLY	GLU	conflict	UNP O66529
qa	169	ALA	SER	conflict	UNP O66529
qa	177	ASP	GLY	conflict	UNP O66529
qa	191	PHE	ILE	conflict	UNP O66529
qa	193	ASP	VAL	conflict	UNP O66529
qb	112	MET	-	initiating methionine	UNP O66529
qb	113	GLY	-	expression tag	UNP O66529
qb	114	ILE	MET	conflict	UNP O66529
qb	115	GLU	GLN	conflict	UNP O66529
qb	138	THR	ALA	conflict	UNP O66529
qb	158	GLY	GLU	conflict	UNP O66529
qb	169	ALA	SER	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
qb	177	ASP	GLY	conflict	UNP O66529
qb	191	PHE	ILE	conflict	UNP O66529
qb	193	ASP	VAL	conflict	UNP O66529
qc	112	MET	-	initiating methionine	UNP O66529
qc	113	GLY	-	expression tag	UNP O66529
qc	114	ILE	MET	conflict	UNP O66529
qc	115	GLU	GLN	conflict	UNP O66529
qc	138	THR	ALA	conflict	UNP O66529
qc	158	GLY	GLU	conflict	UNP O66529
qc	169	ALA	SER	conflict	UNP O66529
qc	177	ASP	GLY	conflict	UNP O66529
qc	191	PHE	ILE	conflict	UNP O66529
qc	193	ASP	VAL	conflict	UNP O66529
qd	112	MET	-	initiating methionine	UNP O66529
qd	113	GLY	-	expression tag	UNP O66529
qd	114	ILE	MET	conflict	UNP O66529
qd	115	GLU	GLN	conflict	UNP O66529
qd	138	THR	ALA	conflict	UNP O66529
qd	158	GLY	GLU	conflict	UNP O66529
qd	169	ALA	SER	conflict	UNP O66529
qd	177	ASP	GLY	conflict	UNP O66529
qd	191	PHE	ILE	conflict	UNP O66529
qd	193	ASP	VAL	conflict	UNP O66529
ra	112	MET	-	initiating methionine	UNP O66529
ra	113	GLY	-	expression tag	UNP O66529
ra	114	ILE	MET	conflict	UNP O66529
ra	115	GLU	GLN	conflict	UNP O66529
ra	138	THR	ALA	conflict	UNP O66529
ra	158	GLY	GLU	conflict	UNP O66529
ra	169	ALA	SER	conflict	UNP O66529
ra	177	ASP	GLY	conflict	UNP O66529
ra	191	PHE	ILE	conflict	UNP O66529
ra	193	ASP	VAL	conflict	UNP O66529
rb	112	MET	-	initiating methionine	UNP O66529
rb	113	GLY	-	expression tag	UNP O66529
rb	114	ILE	MET	conflict	UNP O66529
rb	115	GLU	GLN	conflict	UNP O66529
rb	138	THR	ALA	conflict	UNP O66529
rb	158	GLY	GLU	conflict	UNP O66529
rb	169	ALA	SER	conflict	UNP O66529
rb	177	ASP	GLY	conflict	UNP O66529
rb	191	PHE	ILE	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
rb	193	ASP	VAL	conflict	UNP O66529
rc	112	MET	-	initiating methionine	UNP O66529
rc	113	GLY	-	expression tag	UNP O66529
rc	114	ILE	MET	conflict	UNP O66529
rc	115	GLU	GLN	conflict	UNP O66529
rc	138	THR	ALA	conflict	UNP O66529
rc	158	GLY	GLU	conflict	UNP O66529
rc	169	ALA	SER	conflict	UNP O66529
rc	177	ASP	GLY	conflict	UNP O66529
rc	191	PHE	ILE	conflict	UNP O66529
rc	193	ASP	VAL	conflict	UNP O66529
rd	112	MET	-	initiating methionine	UNP O66529
rd	113	GLY	-	expression tag	UNP O66529
rd	114	ILE	MET	conflict	UNP O66529
rd	115	GLU	GLN	conflict	UNP O66529
rd	138	THR	ALA	conflict	UNP O66529
rd	158	GLY	GLU	conflict	UNP O66529
rd	169	ALA	SER	conflict	UNP O66529
rd	177	ASP	GLY	conflict	UNP O66529
rd	191	PHE	ILE	conflict	UNP O66529
rd	193	ASP	VAL	conflict	UNP O66529
sa	112	MET	-	initiating methionine	UNP O66529
sa	113	GLY	-	expression tag	UNP O66529
sa	114	ILE	MET	conflict	UNP O66529
sa	115	GLU	GLN	conflict	UNP O66529
sa	138	THR	ALA	conflict	UNP O66529
sa	158	GLY	GLU	conflict	UNP O66529
sa	169	ALA	SER	conflict	UNP O66529
sa	177	ASP	GLY	conflict	UNP O66529
sa	191	PHE	ILE	conflict	UNP O66529
sa	193	ASP	VAL	conflict	UNP O66529
sb	112	MET	-	initiating methionine	UNP O66529
sb	113	GLY	-	expression tag	UNP O66529
sb	114	ILE	MET	conflict	UNP O66529
sb	115	GLU	GLN	conflict	UNP O66529
sb	138	THR	ALA	conflict	UNP O66529
sb	158	GLY	GLU	conflict	UNP O66529
sb	169	ALA	SER	conflict	UNP O66529
sb	177	ASP	GLY	conflict	UNP O66529
sb	191	PHE	ILE	conflict	UNP O66529
sb	193	ASP	VAL	conflict	UNP O66529
sc	112	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
sc	113	GLY	-	expression tag	UNP O66529
sc	114	ILE	MET	conflict	UNP O66529
sc	115	GLU	GLN	conflict	UNP O66529
sc	138	THR	ALA	conflict	UNP O66529
sc	158	GLY	GLU	conflict	UNP O66529
sc	169	ALA	SER	conflict	UNP O66529
sc	177	ASP	GLY	conflict	UNP O66529
sc	191	PHE	ILE	conflict	UNP O66529
sc	193	ASP	VAL	conflict	UNP O66529
sd	112	MET	-	initiating methionine	UNP O66529
sd	113	GLY	-	expression tag	UNP O66529
sd	114	ILE	MET	conflict	UNP O66529
sd	115	GLU	GLN	conflict	UNP O66529
sd	138	THR	ALA	conflict	UNP O66529
sd	158	GLY	GLU	conflict	UNP O66529
sd	169	ALA	SER	conflict	UNP O66529
sd	177	ASP	GLY	conflict	UNP O66529
sd	191	PHE	ILE	conflict	UNP O66529
sd	193	ASP	VAL	conflict	UNP O66529
ta	112	MET	-	initiating methionine	UNP O66529
ta	113	GLY	-	expression tag	UNP O66529
ta	114	ILE	MET	conflict	UNP O66529
ta	115	GLU	GLN	conflict	UNP O66529
ta	138	THR	ALA	conflict	UNP O66529
ta	158	GLY	GLU	conflict	UNP O66529
ta	169	ALA	SER	conflict	UNP O66529
ta	177	ASP	GLY	conflict	UNP O66529
ta	191	PHE	ILE	conflict	UNP O66529
ta	193	ASP	VAL	conflict	UNP O66529
tb	112	MET	-	initiating methionine	UNP O66529
tb	113	GLY	-	expression tag	UNP O66529
tb	114	ILE	MET	conflict	UNP O66529
tb	115	GLU	GLN	conflict	UNP O66529
tb	138	THR	ALA	conflict	UNP O66529
tb	158	GLY	GLU	conflict	UNP O66529
tb	169	ALA	SER	conflict	UNP O66529
tb	177	ASP	GLY	conflict	UNP O66529
tb	191	PHE	ILE	conflict	UNP O66529
tb	193	ASP	VAL	conflict	UNP O66529
tc	112	MET	-	initiating methionine	UNP O66529
tc	113	GLY	-	expression tag	UNP O66529
tc	114	ILE	MET	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
tc	115	GLU	GLN	conflict	UNP O66529
tc	138	THR	ALA	conflict	UNP O66529
tc	158	GLY	GLU	conflict	UNP O66529
tc	169	ALA	SER	conflict	UNP O66529
tc	177	ASP	GLY	conflict	UNP O66529
tc	191	PHE	ILE	conflict	UNP O66529
tc	193	ASP	VAL	conflict	UNP O66529
td	112	MET	-	initiating methionine	UNP O66529
td	113	GLY	-	expression tag	UNP O66529
td	114	ILE	MET	conflict	UNP O66529
td	115	GLU	GLN	conflict	UNP O66529
td	138	THR	ALA	conflict	UNP O66529
td	158	GLY	GLU	conflict	UNP O66529
td	169	ALA	SER	conflict	UNP O66529
td	177	ASP	GLY	conflict	UNP O66529
td	191	PHE	ILE	conflict	UNP O66529
td	193	ASP	VAL	conflict	UNP O66529
ua	112	MET	-	initiating methionine	UNP O66529
ua	113	GLY	-	expression tag	UNP O66529
ua	114	ILE	MET	conflict	UNP O66529
ua	115	GLU	GLN	conflict	UNP O66529
ua	138	THR	ALA	conflict	UNP O66529
ua	158	GLY	GLU	conflict	UNP O66529
ua	169	ALA	SER	conflict	UNP O66529
ua	177	ASP	GLY	conflict	UNP O66529
ua	191	PHE	ILE	conflict	UNP O66529
ua	193	ASP	VAL	conflict	UNP O66529
ub	112	MET	-	initiating methionine	UNP O66529
ub	113	GLY	-	expression tag	UNP O66529
ub	114	ILE	MET	conflict	UNP O66529
ub	115	GLU	GLN	conflict	UNP O66529
ub	138	THR	ALA	conflict	UNP O66529
ub	158	GLY	GLU	conflict	UNP O66529
ub	169	ALA	SER	conflict	UNP O66529
ub	177	ASP	GLY	conflict	UNP O66529
ub	191	PHE	ILE	conflict	UNP O66529
ub	193	ASP	VAL	conflict	UNP O66529
uc	112	MET	-	initiating methionine	UNP O66529
uc	113	GLY	-	expression tag	UNP O66529
uc	114	ILE	MET	conflict	UNP O66529
uc	115	GLU	GLN	conflict	UNP O66529
uc	138	THR	ALA	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
uc	158	GLY	GLU	conflict	UNP O66529
uc	169	ALA	SER	conflict	UNP O66529
uc	177	ASP	GLY	conflict	UNP O66529
uc	191	PHE	ILE	conflict	UNP O66529
uc	193	ASP	VAL	conflict	UNP O66529
ud	112	MET	-	initiating methionine	UNP O66529
ud	113	GLY	-	expression tag	UNP O66529
ud	114	ILE	MET	conflict	UNP O66529
ud	115	GLU	GLN	conflict	UNP O66529
ud	138	THR	ALA	conflict	UNP O66529
ud	158	GLY	GLU	conflict	UNP O66529
ud	169	ALA	SER	conflict	UNP O66529
ud	177	ASP	GLY	conflict	UNP O66529
ud	191	PHE	ILE	conflict	UNP O66529
ud	193	ASP	VAL	conflict	UNP O66529
va	112	MET	-	initiating methionine	UNP O66529
va	113	GLY	-	expression tag	UNP O66529
va	114	ILE	MET	conflict	UNP O66529
va	115	GLU	GLN	conflict	UNP O66529
va	138	THR	ALA	conflict	UNP O66529
va	158	GLY	GLU	conflict	UNP O66529
va	169	ALA	SER	conflict	UNP O66529
va	177	ASP	GLY	conflict	UNP O66529
va	191	PHE	ILE	conflict	UNP O66529
va	193	ASP	VAL	conflict	UNP O66529
vb	112	MET	-	initiating methionine	UNP O66529
vb	113	GLY	-	expression tag	UNP O66529
vb	114	ILE	MET	conflict	UNP O66529
vb	115	GLU	GLN	conflict	UNP O66529
vb	138	THR	ALA	conflict	UNP O66529
vb	158	GLY	GLU	conflict	UNP O66529
vb	169	ALA	SER	conflict	UNP O66529
vb	177	ASP	GLY	conflict	UNP O66529
vb	191	PHE	ILE	conflict	UNP O66529
vb	193	ASP	VAL	conflict	UNP O66529
vc	112	MET	-	initiating methionine	UNP O66529
vc	113	GLY	-	expression tag	UNP O66529
vc	114	ILE	MET	conflict	UNP O66529
vc	115	GLU	GLN	conflict	UNP O66529
vc	138	THR	ALA	conflict	UNP O66529
vc	158	GLY	GLU	conflict	UNP O66529
vc	169	ALA	SER	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
vc	177	ASP	GLY	conflict	UNP O66529
vc	191	PHE	ILE	conflict	UNP O66529
vc	193	ASP	VAL	conflict	UNP O66529
vd	112	MET	-	initiating methionine	UNP O66529
vd	113	GLY	-	expression tag	UNP O66529
vd	114	ILE	MET	conflict	UNP O66529
vd	115	GLU	GLN	conflict	UNP O66529
vd	138	THR	ALA	conflict	UNP O66529
vd	158	GLY	GLU	conflict	UNP O66529
vd	169	ALA	SER	conflict	UNP O66529
vd	177	ASP	GLY	conflict	UNP O66529
vd	191	PHE	ILE	conflict	UNP O66529
vd	193	ASP	VAL	conflict	UNP O66529
wa	112	MET	-	initiating methionine	UNP O66529
wa	113	GLY	-	expression tag	UNP O66529
wa	114	ILE	MET	conflict	UNP O66529
wa	115	GLU	GLN	conflict	UNP O66529
wa	138	THR	ALA	conflict	UNP O66529
wa	158	GLY	GLU	conflict	UNP O66529
wa	169	ALA	SER	conflict	UNP O66529
wa	177	ASP	GLY	conflict	UNP O66529
wa	191	PHE	ILE	conflict	UNP O66529
wa	193	ASP	VAL	conflict	UNP O66529
wb	112	MET	-	initiating methionine	UNP O66529
wb	113	GLY	-	expression tag	UNP O66529
wb	114	ILE	MET	conflict	UNP O66529
wb	115	GLU	GLN	conflict	UNP O66529
wb	138	THR	ALA	conflict	UNP O66529
wb	158	GLY	GLU	conflict	UNP O66529
wb	169	ALA	SER	conflict	UNP O66529
wb	177	ASP	GLY	conflict	UNP O66529
wb	191	PHE	ILE	conflict	UNP O66529
wb	193	ASP	VAL	conflict	UNP O66529
wc	112	MET	-	initiating methionine	UNP O66529
wc	113	GLY	-	expression tag	UNP O66529
wc	114	ILE	MET	conflict	UNP O66529
wc	115	GLU	GLN	conflict	UNP O66529
wc	138	THR	ALA	conflict	UNP O66529
wc	158	GLY	GLU	conflict	UNP O66529
wc	169	ALA	SER	conflict	UNP O66529
wc	177	ASP	GLY	conflict	UNP O66529
wc	191	PHE	ILE	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
wc	193	ASP	VAL	conflict	UNP O66529
wd	112	MET	-	initiating methionine	UNP O66529
wd	113	GLY	-	expression tag	UNP O66529
wd	114	ILE	MET	conflict	UNP O66529
wd	115	GLU	GLN	conflict	UNP O66529
wd	138	THR	ALA	conflict	UNP O66529
wd	158	GLY	GLU	conflict	UNP O66529
wd	169	ALA	SER	conflict	UNP O66529
wd	177	ASP	GLY	conflict	UNP O66529
wd	191	PHE	ILE	conflict	UNP O66529
wd	193	ASP	VAL	conflict	UNP O66529
xa	112	MET	-	initiating methionine	UNP O66529
xa	113	GLY	-	expression tag	UNP O66529
xa	114	ILE	MET	conflict	UNP O66529
xa	115	GLU	GLN	conflict	UNP O66529
xa	138	THR	ALA	conflict	UNP O66529
xa	158	GLY	GLU	conflict	UNP O66529
xa	169	ALA	SER	conflict	UNP O66529
xa	177	ASP	GLY	conflict	UNP O66529
xa	191	PHE	ILE	conflict	UNP O66529
xa	193	ASP	VAL	conflict	UNP O66529
xb	112	MET	-	initiating methionine	UNP O66529
xb	113	GLY	-	expression tag	UNP O66529
xb	114	ILE	MET	conflict	UNP O66529
xb	115	GLU	GLN	conflict	UNP O66529
xb	138	THR	ALA	conflict	UNP O66529
xb	158	GLY	GLU	conflict	UNP O66529
xb	169	ALA	SER	conflict	UNP O66529
xb	177	ASP	GLY	conflict	UNP O66529
xb	191	PHE	ILE	conflict	UNP O66529
xb	193	ASP	VAL	conflict	UNP O66529
xc	112	MET	-	initiating methionine	UNP O66529
xc	113	GLY	-	expression tag	UNP O66529
xc	114	ILE	MET	conflict	UNP O66529
xc	115	GLU	GLN	conflict	UNP O66529
xc	138	THR	ALA	conflict	UNP O66529
xc	158	GLY	GLU	conflict	UNP O66529
xc	169	ALA	SER	conflict	UNP O66529
xc	177	ASP	GLY	conflict	UNP O66529
xc	191	PHE	ILE	conflict	UNP O66529
xc	193	ASP	VAL	conflict	UNP O66529
xd	112	MET	-	initiating methionine	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
xd	113	GLY	-	expression tag	UNP O66529
xd	114	ILE	MET	conflict	UNP O66529
xd	115	GLU	GLN	conflict	UNP O66529
xd	138	THR	ALA	conflict	UNP O66529
xd	158	GLY	GLU	conflict	UNP O66529
xd	169	ALA	SER	conflict	UNP O66529
xd	177	ASP	GLY	conflict	UNP O66529
xd	191	PHE	ILE	conflict	UNP O66529
xd	193	ASP	VAL	conflict	UNP O66529
ya	112	MET	-	initiating methionine	UNP O66529
ya	113	GLY	-	expression tag	UNP O66529
ya	114	ILE	MET	conflict	UNP O66529
ya	115	GLU	GLN	conflict	UNP O66529
ya	138	THR	ALA	conflict	UNP O66529
ya	158	GLY	GLU	conflict	UNP O66529
ya	169	ALA	SER	conflict	UNP O66529
ya	177	ASP	GLY	conflict	UNP O66529
ya	191	PHE	ILE	conflict	UNP O66529
ya	193	ASP	VAL	conflict	UNP O66529
yb	112	MET	-	initiating methionine	UNP O66529
yb	113	GLY	-	expression tag	UNP O66529
yb	114	ILE	MET	conflict	UNP O66529
yb	115	GLU	GLN	conflict	UNP O66529
yb	138	THR	ALA	conflict	UNP O66529
yb	158	GLY	GLU	conflict	UNP O66529
yb	169	ALA	SER	conflict	UNP O66529
yb	177	ASP	GLY	conflict	UNP O66529
yb	191	PHE	ILE	conflict	UNP O66529
yb	193	ASP	VAL	conflict	UNP O66529
yc	112	MET	-	initiating methionine	UNP O66529
yc	113	GLY	-	expression tag	UNP O66529
yc	114	ILE	MET	conflict	UNP O66529
yc	115	GLU	GLN	conflict	UNP O66529
yc	138	THR	ALA	conflict	UNP O66529
yc	158	GLY	GLU	conflict	UNP O66529
yc	169	ALA	SER	conflict	UNP O66529
yc	177	ASP	GLY	conflict	UNP O66529
yc	191	PHE	ILE	conflict	UNP O66529
yc	193	ASP	VAL	conflict	UNP O66529
yd	112	MET	-	initiating methionine	UNP O66529
yd	113	GLY	-	expression tag	UNP O66529
yd	114	ILE	MET	conflict	UNP O66529

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Chain	Residue	Modelled	Actual	Comment	Reference
yd	115	GLU	GLN	conflict	UNP O66529
yd	138	THR	ALA	conflict	UNP O66529
yd	158	GLY	GLU	conflict	UNP O66529
yd	169	ALA	SER	conflict	UNP O66529
yd	177	ASP	GLY	conflict	UNP O66529
yd	191	PHE	ILE	conflict	UNP O66529
yd	193	ASP	VAL	conflict	UNP O66529
za	112	MET	-	initiating methionine	UNP O66529
za	113	GLY	-	expression tag	UNP O66529
za	114	ILE	MET	conflict	UNP O66529
za	115	GLU	GLN	conflict	UNP O66529
za	138	THR	ALA	conflict	UNP O66529
za	158	GLY	GLU	conflict	UNP O66529
za	169	ALA	SER	conflict	UNP O66529
za	177	ASP	GLY	conflict	UNP O66529
za	191	PHE	ILE	conflict	UNP O66529
za	193	ASP	VAL	conflict	UNP O66529
zb	112	MET	-	initiating methionine	UNP O66529
zb	113	GLY	-	expression tag	UNP O66529
zb	114	ILE	MET	conflict	UNP O66529
zb	115	GLU	GLN	conflict	UNP O66529
zb	138	THR	ALA	conflict	UNP O66529
zb	158	GLY	GLU	conflict	UNP O66529
zb	169	ALA	SER	conflict	UNP O66529
zb	177	ASP	GLY	conflict	UNP O66529
zb	191	PHE	ILE	conflict	UNP O66529
zb	193	ASP	VAL	conflict	UNP O66529
zc	112	MET	-	initiating methionine	UNP O66529
zc	113	GLY	-	expression tag	UNP O66529
zc	114	ILE	MET	conflict	UNP O66529
zc	115	GLU	GLN	conflict	UNP O66529
zc	138	THR	ALA	conflict	UNP O66529
zc	158	GLY	GLU	conflict	UNP O66529
zc	169	ALA	SER	conflict	UNP O66529
zc	177	ASP	GLY	conflict	UNP O66529
zc	191	PHE	ILE	conflict	UNP O66529
zc	193	ASP	VAL	conflict	UNP O66529
zd	112	MET	-	initiating methionine	UNP O66529
zd	113	GLY	-	expression tag	UNP O66529
zd	114	ILE	MET	conflict	UNP O66529
zd	115	GLU	GLN	conflict	UNP O66529
zd	138	THR	ALA	conflict	UNP O66529

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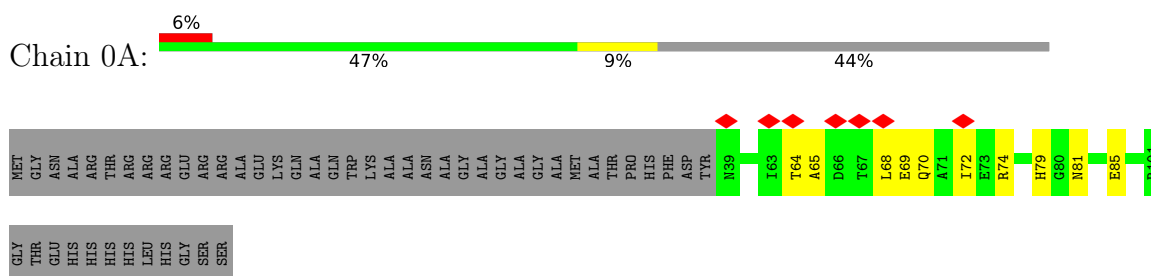
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Chain	Residue	Modelled	Actual	Comment	Reference
zd	158	GLY	GLU	conflict	UNP O66529
zd	169	ALA	SER	conflict	UNP O66529
zd	177	ASP	GLY	conflict	UNP O66529
zd	191	PHE	ILE	conflict	UNP O66529
zd	193	ASP	VAL	conflict	UNP O66529

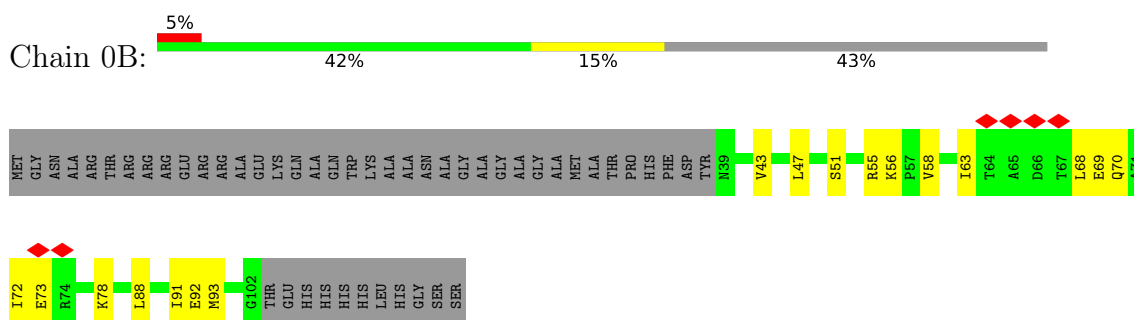
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

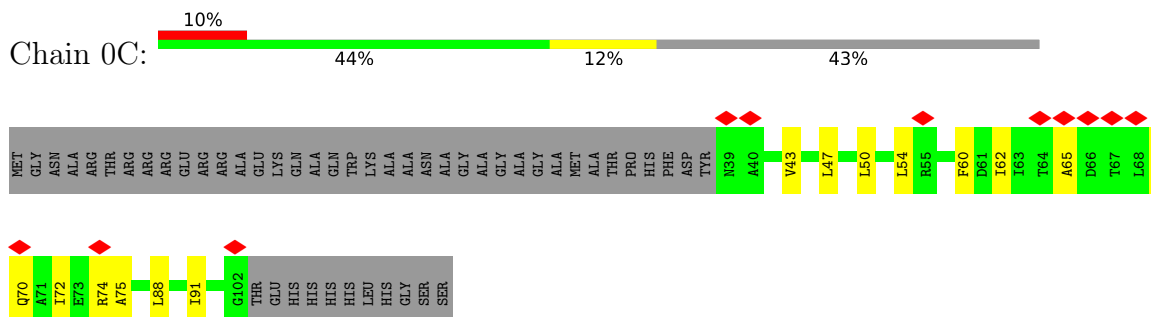
- Molecule 1: 6,7-dimethyl-8-ribityllumazine synthase



- Molecule 1: 6,7-dimethyl-8-ribityllumazine synthase



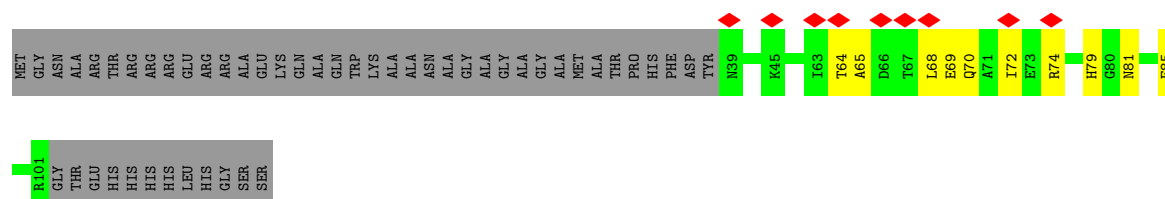
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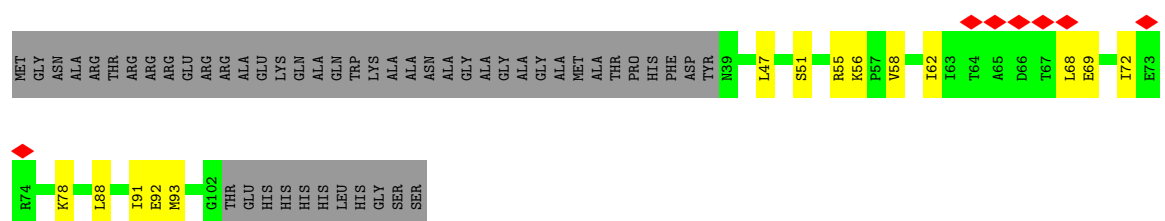
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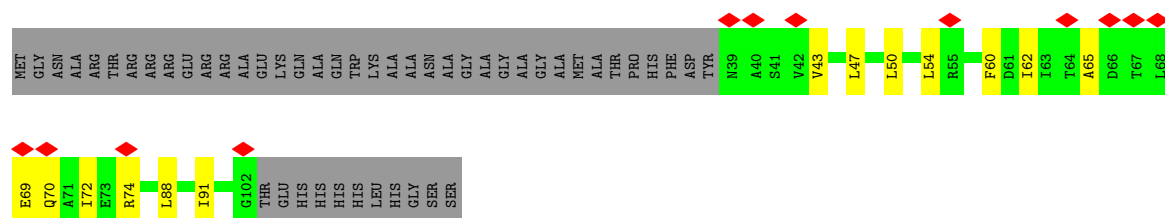
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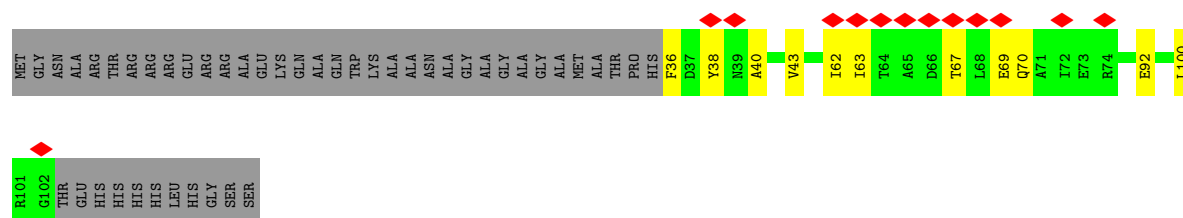
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- Molecule 1: 6,7-dimethyl-8-ribityllumazine synthase

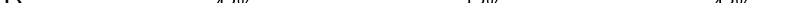


- Molecule 1: 6,7-dimethyl-8-ribityllumazine synthase

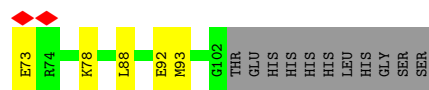


- Molecule 1: 6,7-dimethyl-8-ribityllumazine synthase



- Chain 4B: 

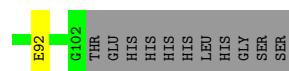




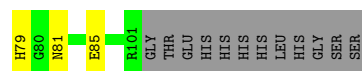
- Chain 5C: 



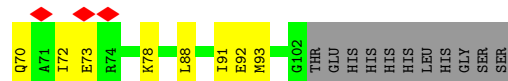
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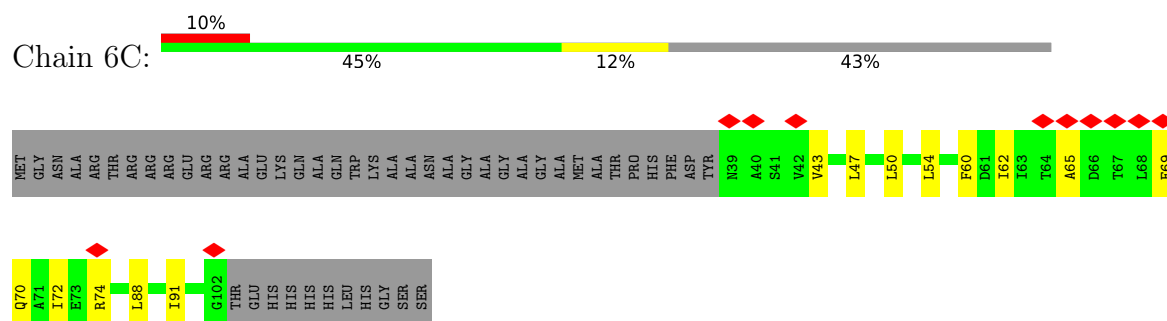
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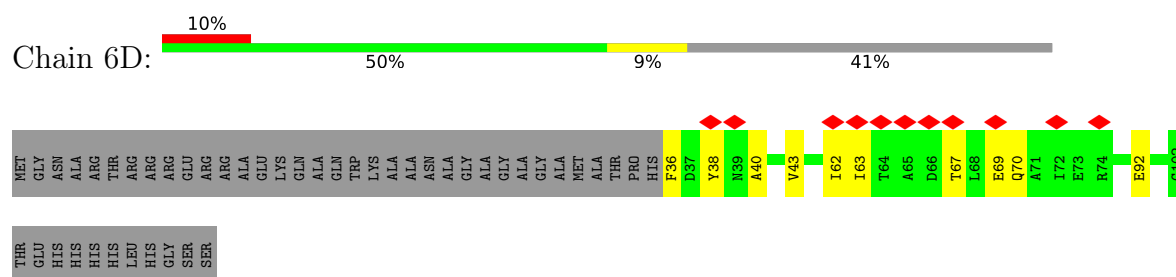
- Chain 6B: 



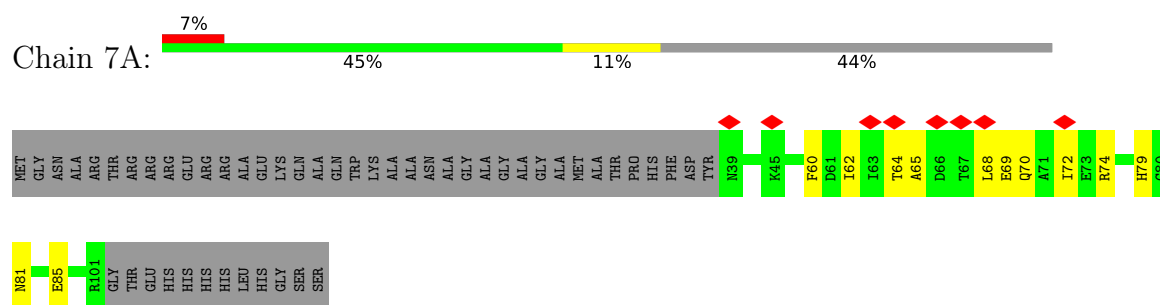
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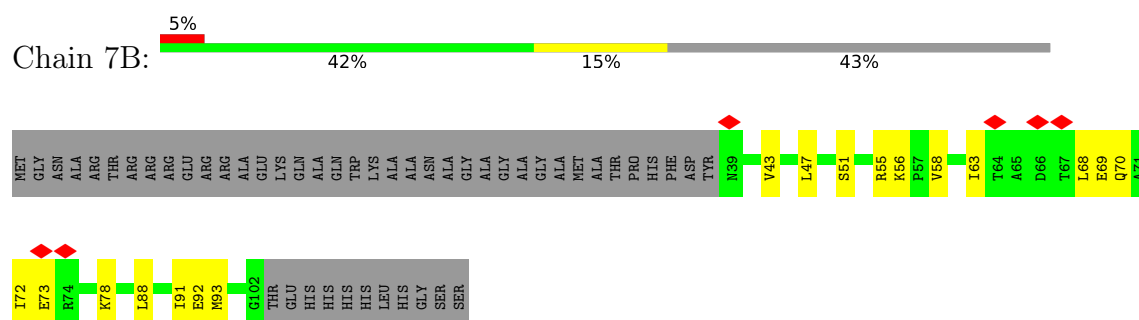
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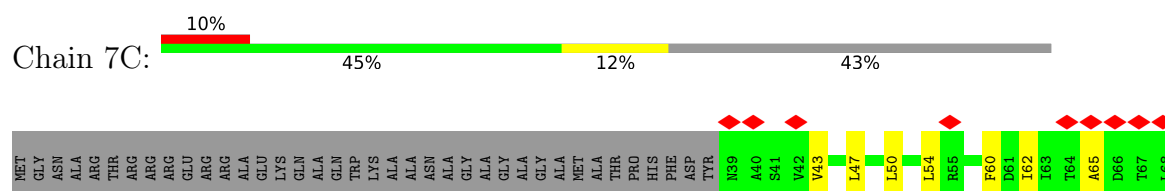
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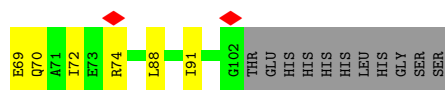


- Molecule 1: 6,7-dimethyl-8-ribityllumazine synthase

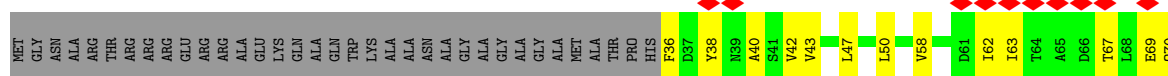


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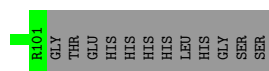
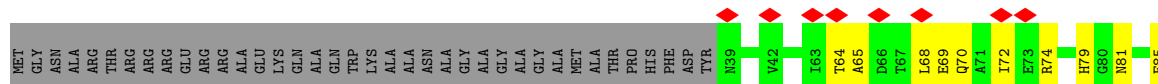




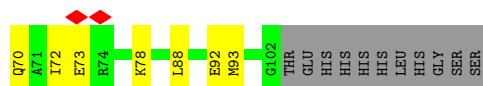
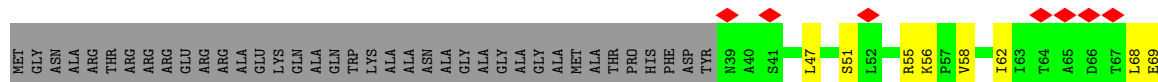
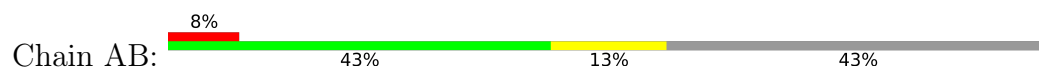
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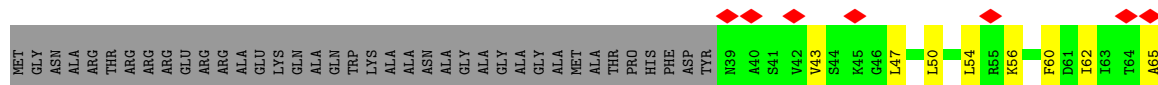
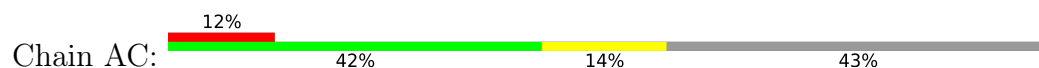
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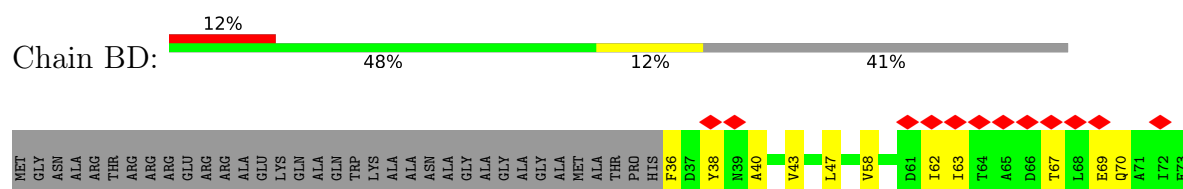
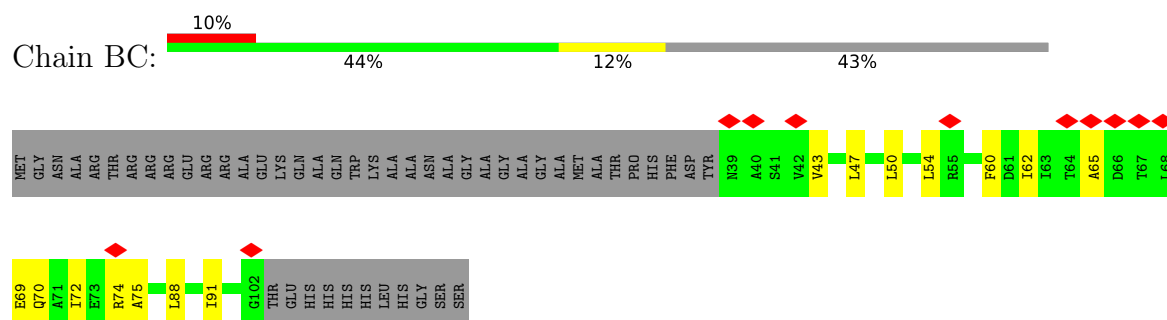
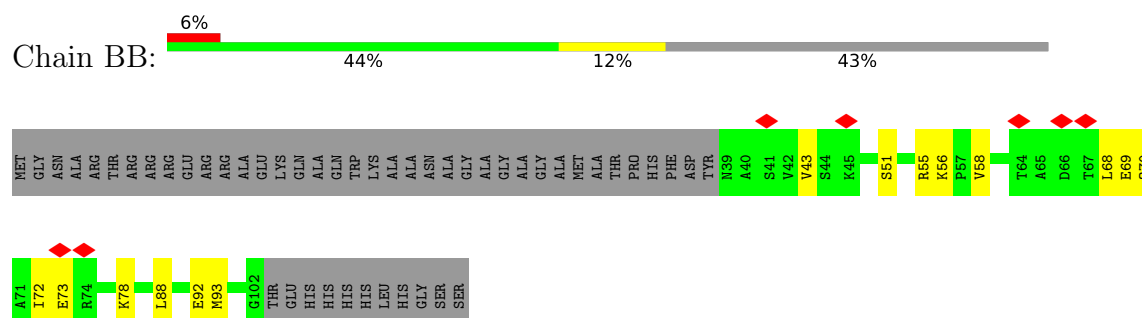
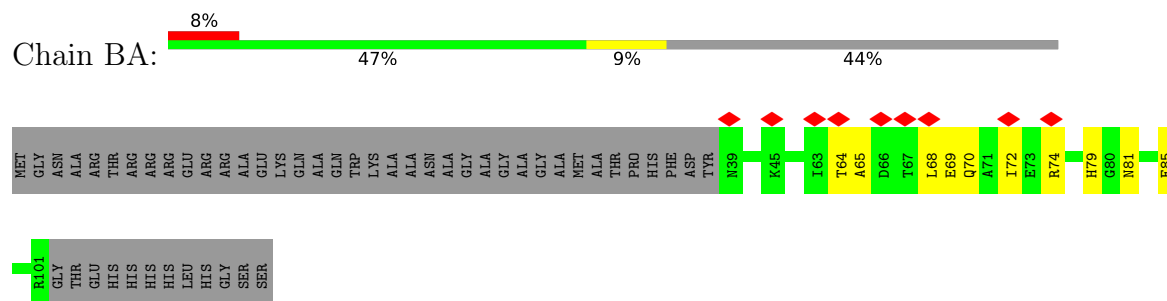
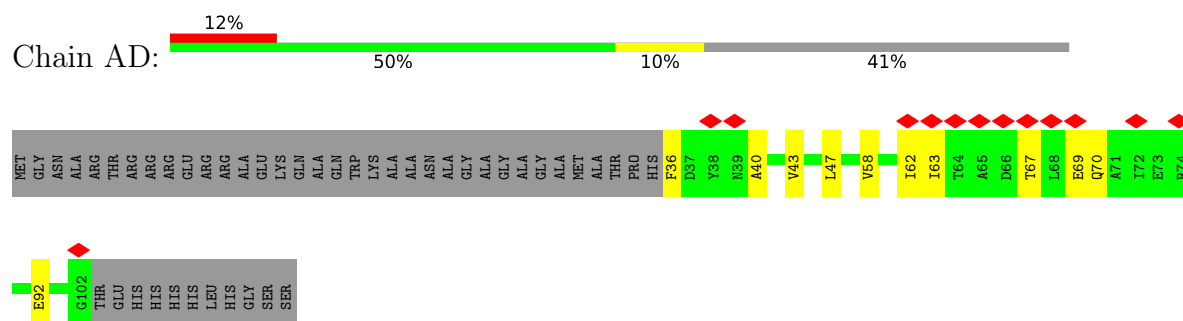
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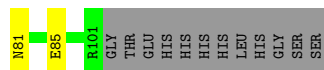
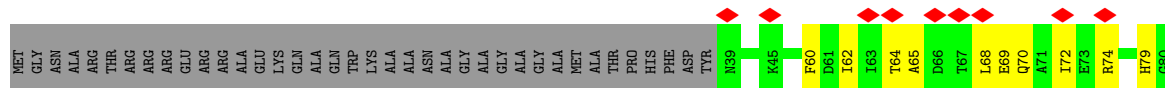


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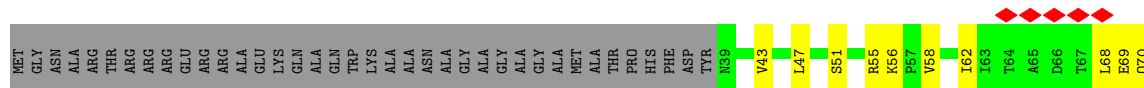
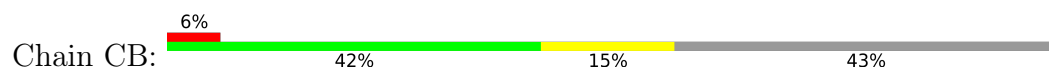




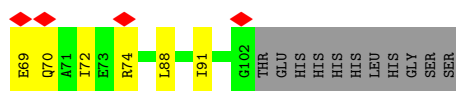
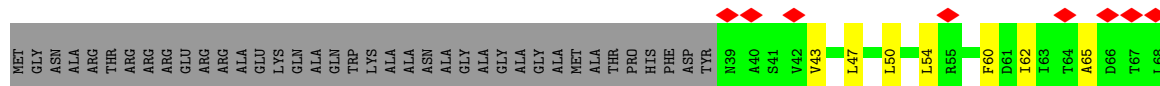
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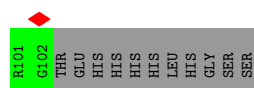
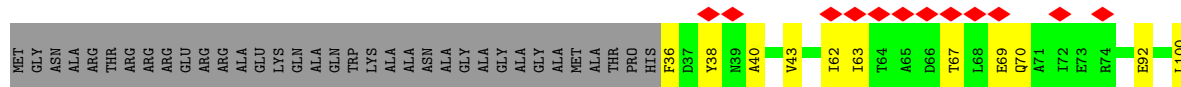
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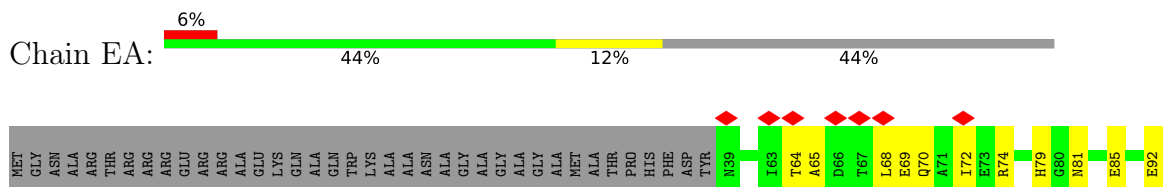
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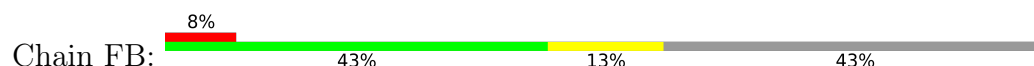


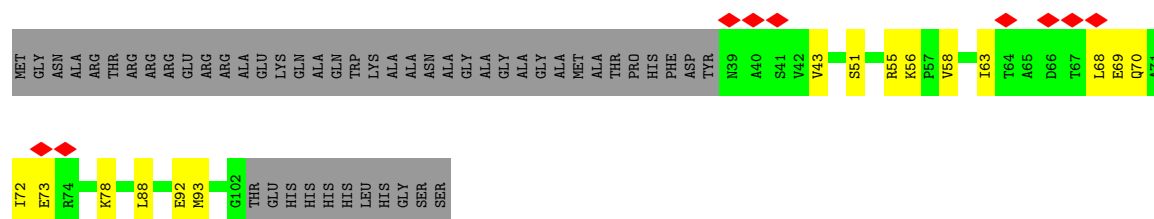
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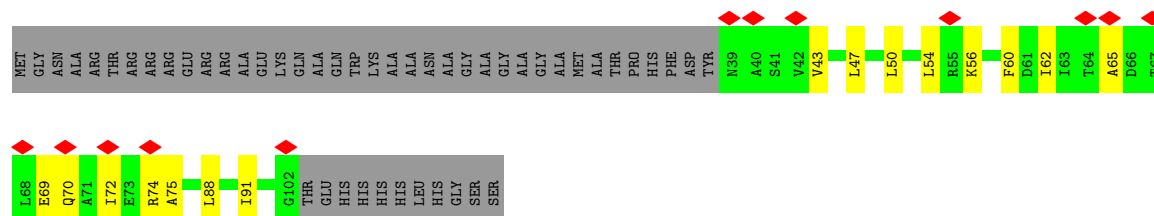
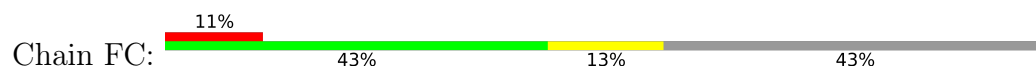
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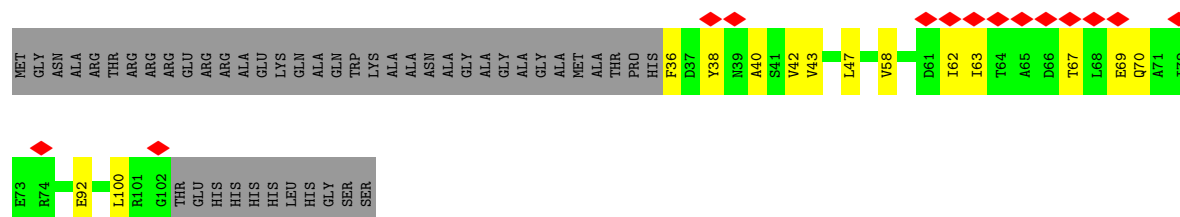




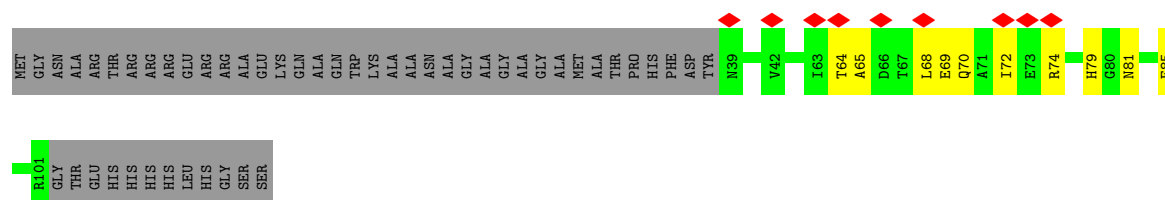
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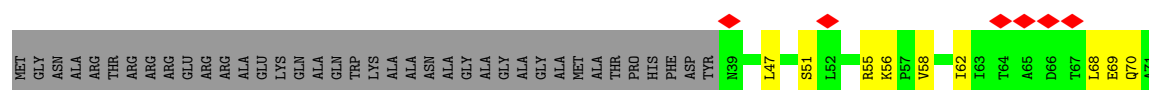
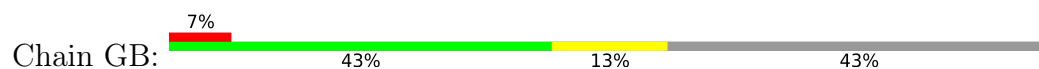
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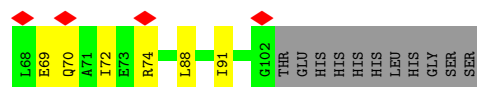
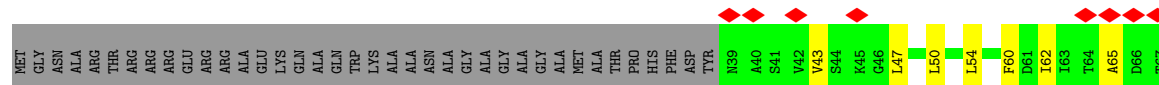


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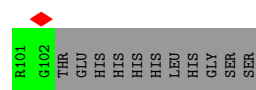
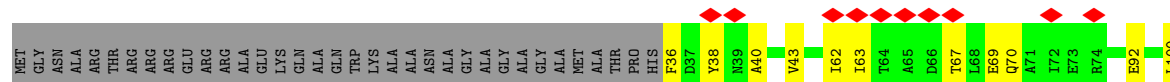




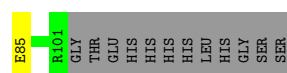
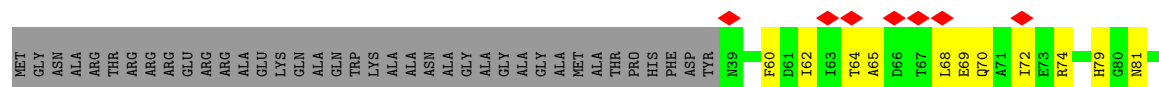
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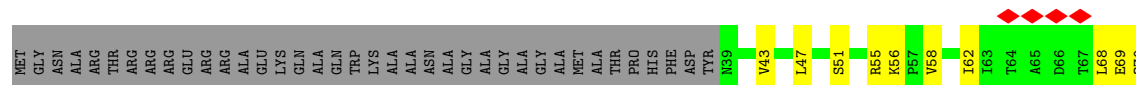
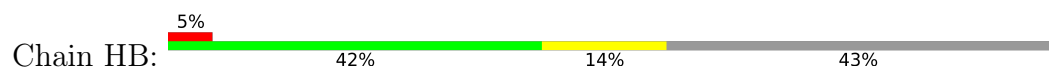
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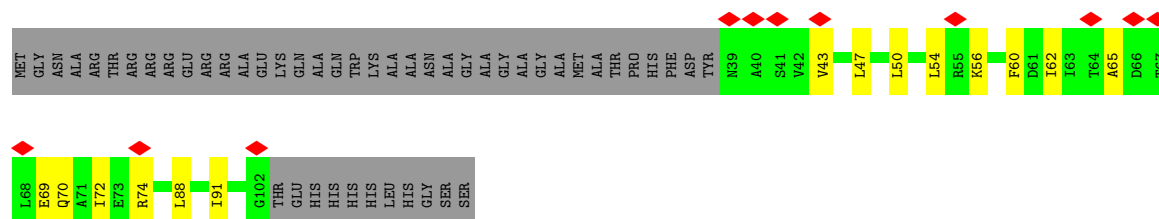
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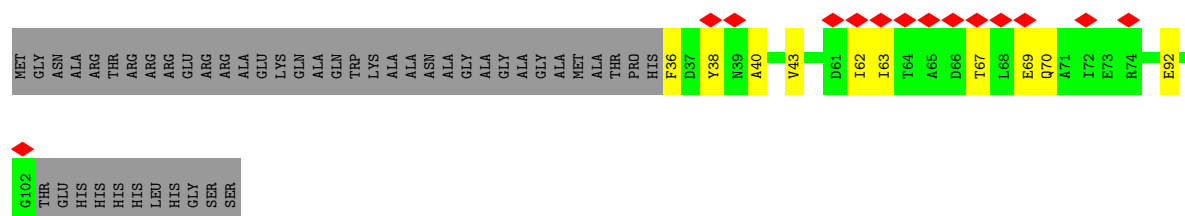
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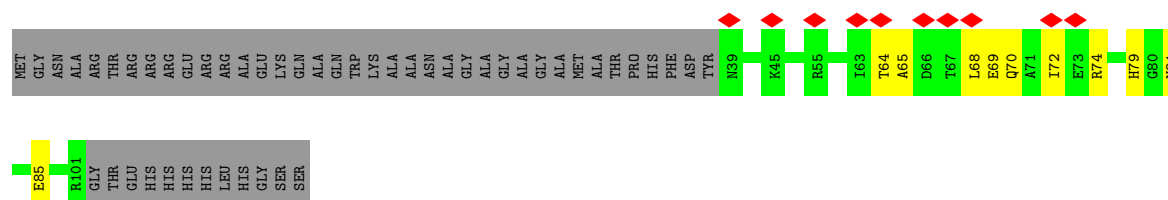
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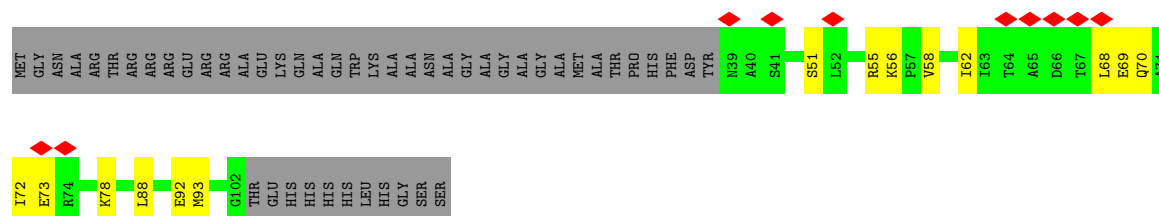
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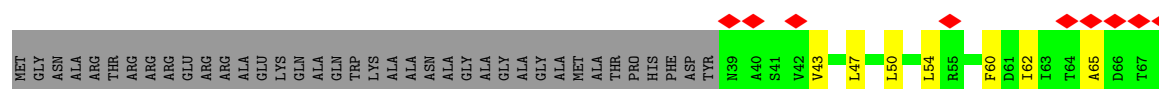
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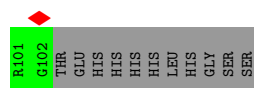


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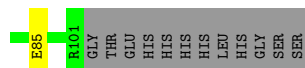
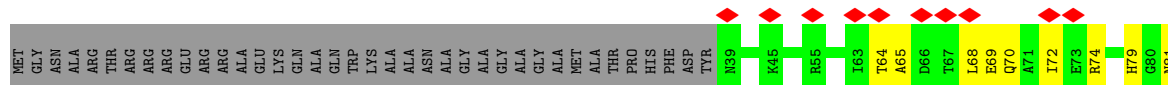


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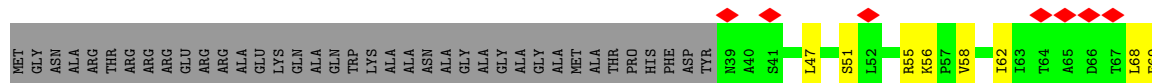
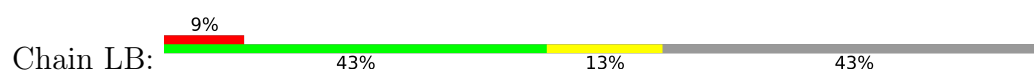




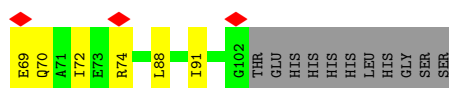
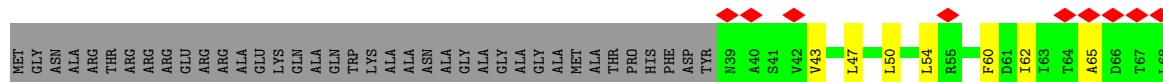
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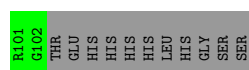
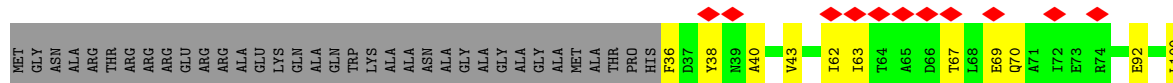
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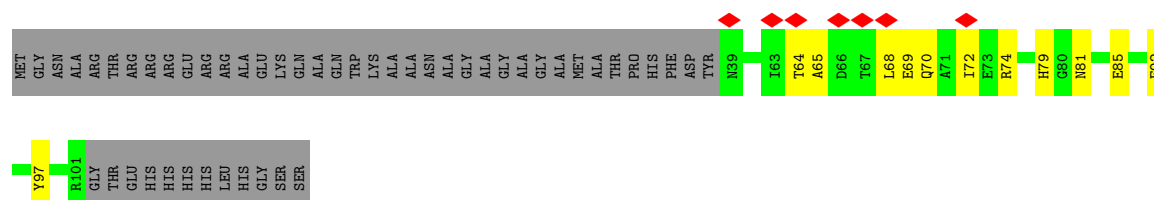


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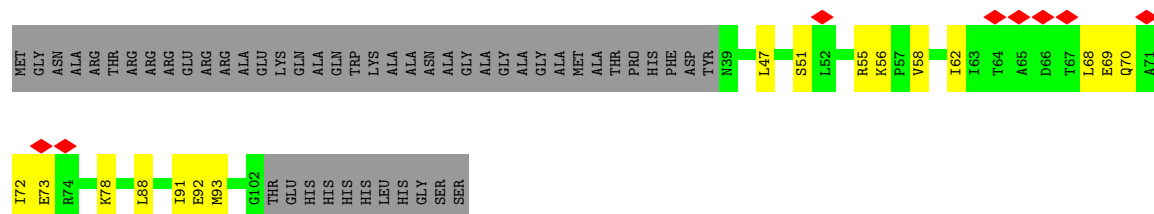
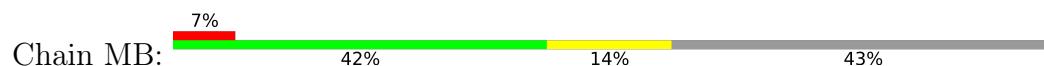


- Molecule 1: 6,7-dimethyl-8-ribityllumazine synthase

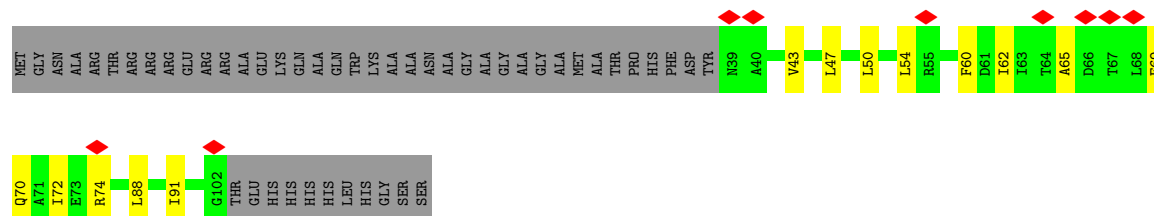




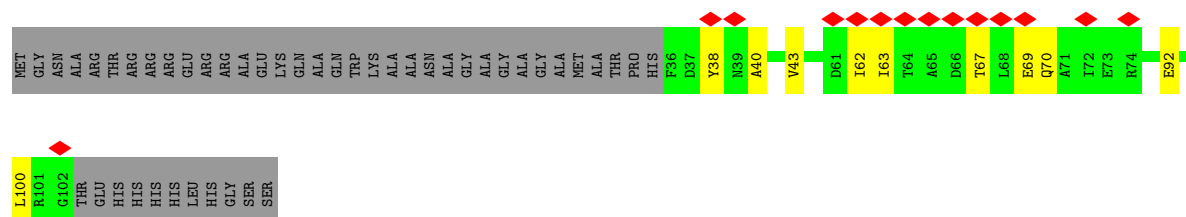
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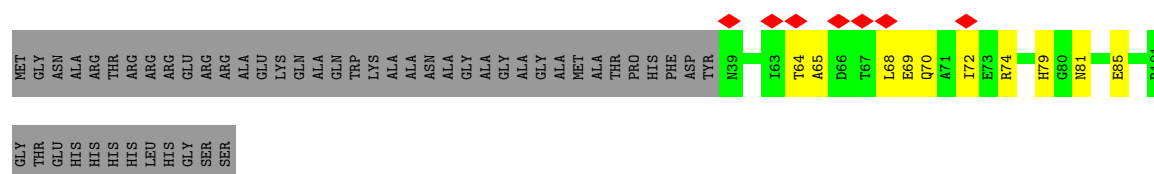
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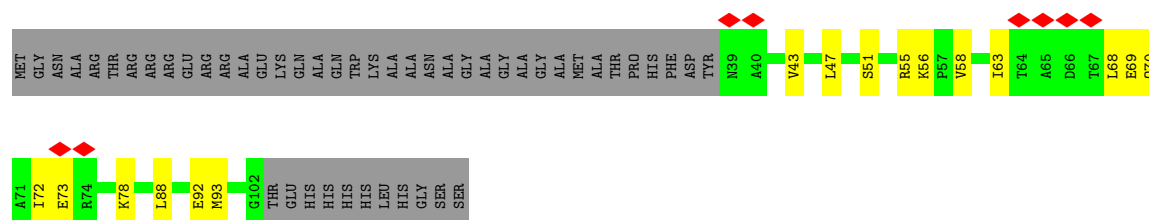
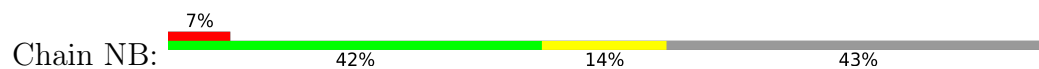
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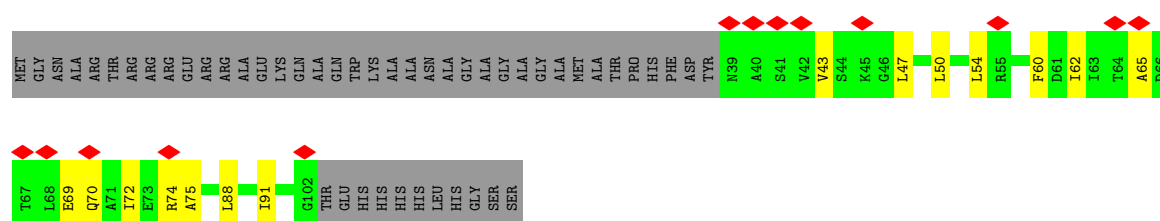
- Molecule 1: 6,7-dimethyl-8-ribityllumazine synthase



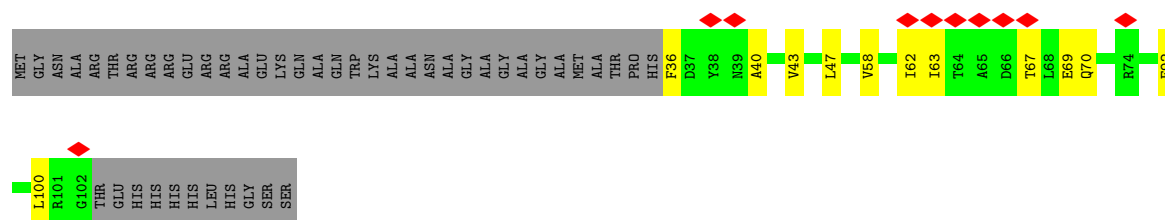
• Molecule 1: 6,7-dimethyl-8-ribityllumazine synthase



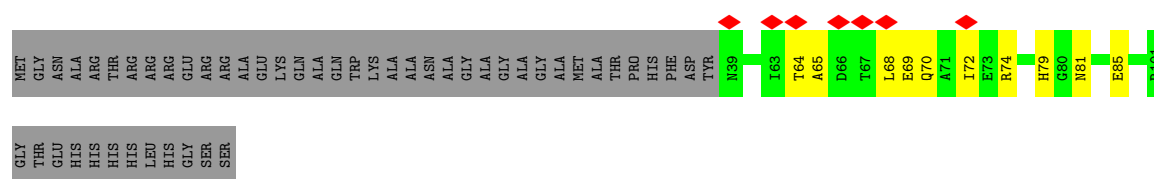
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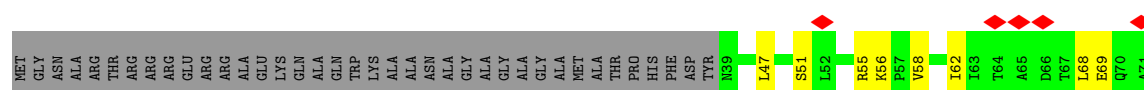
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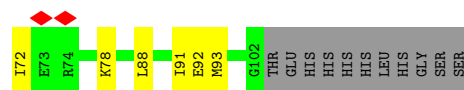


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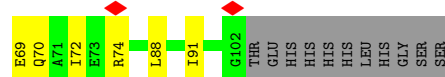
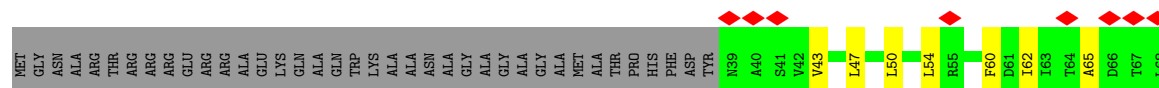


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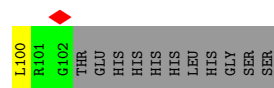
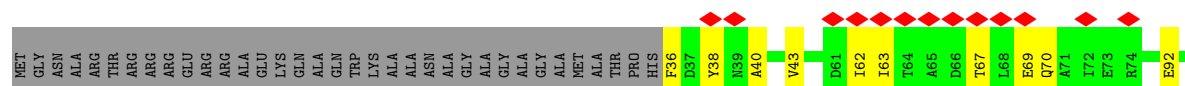




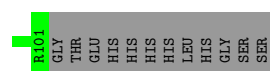
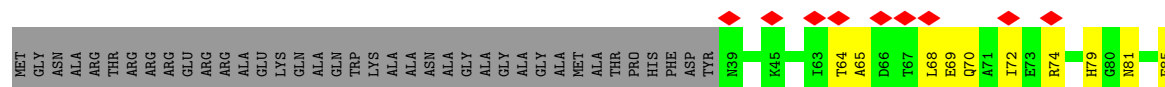
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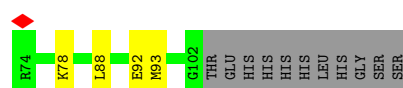
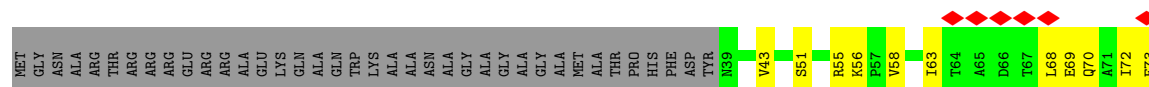
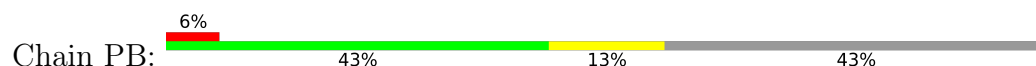
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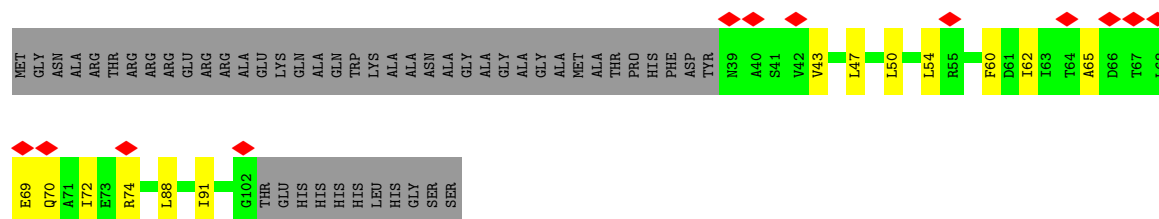
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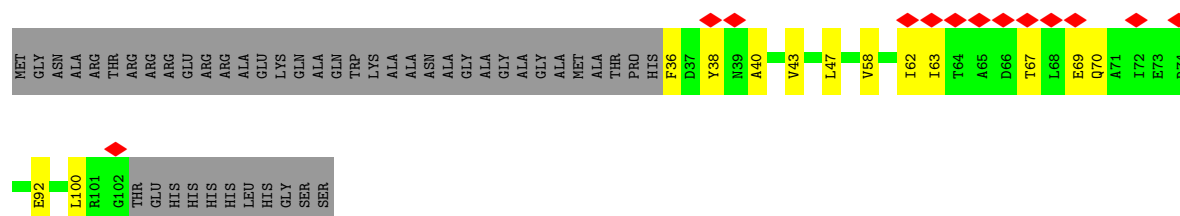
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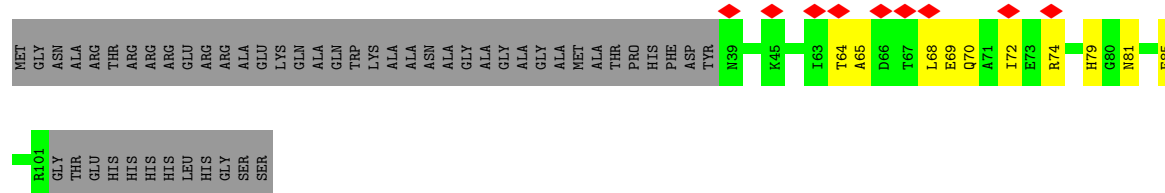
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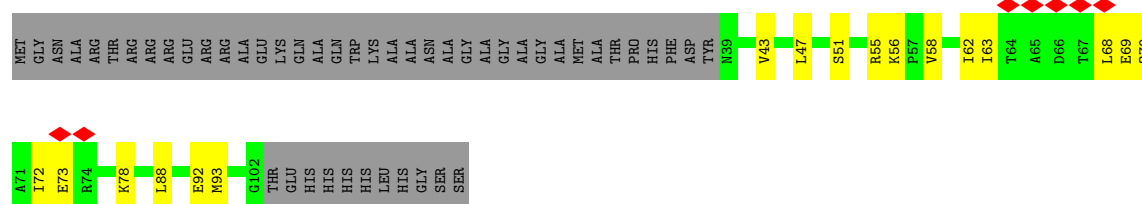
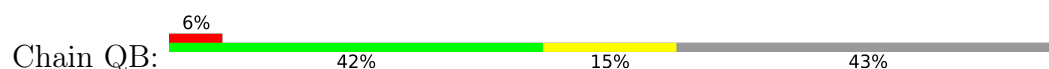
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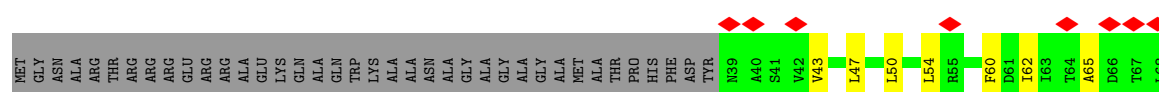
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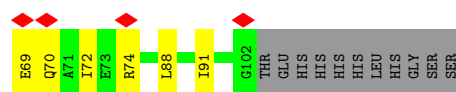


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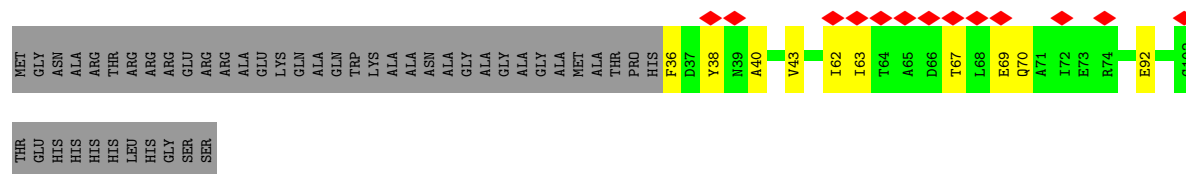


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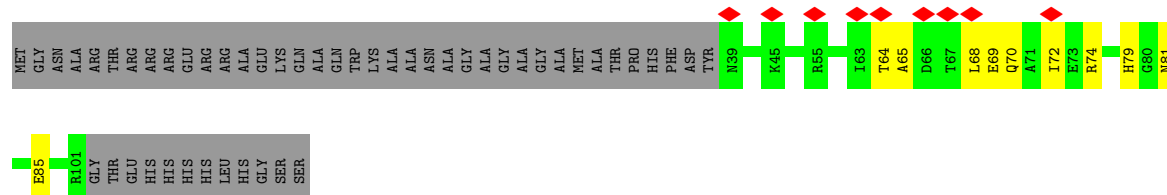




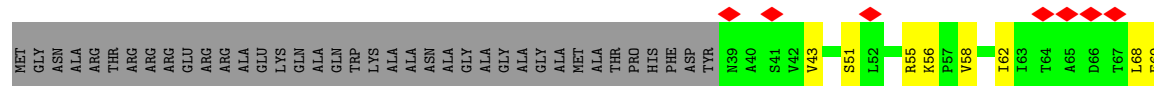
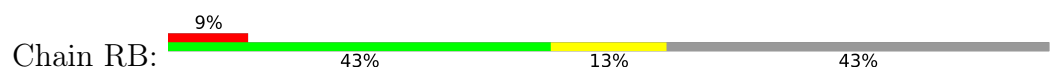
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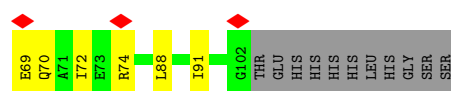
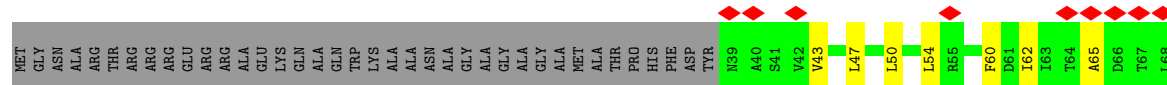
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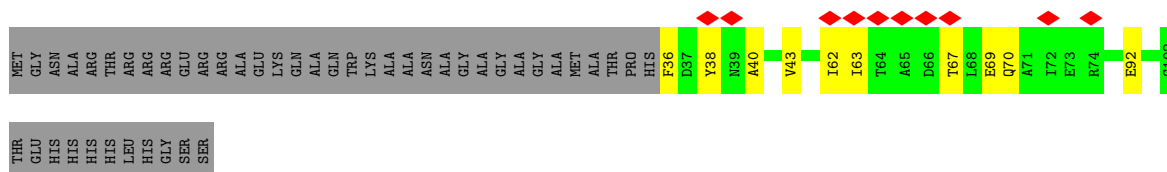


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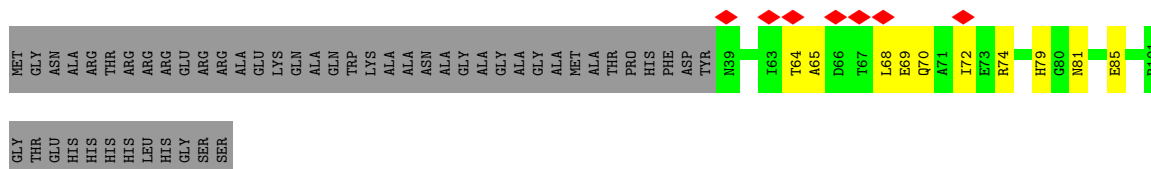


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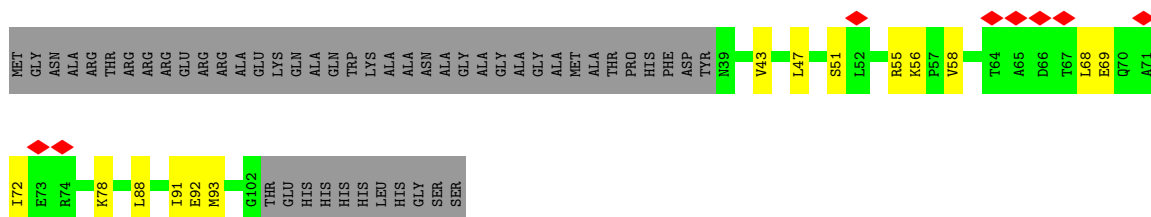




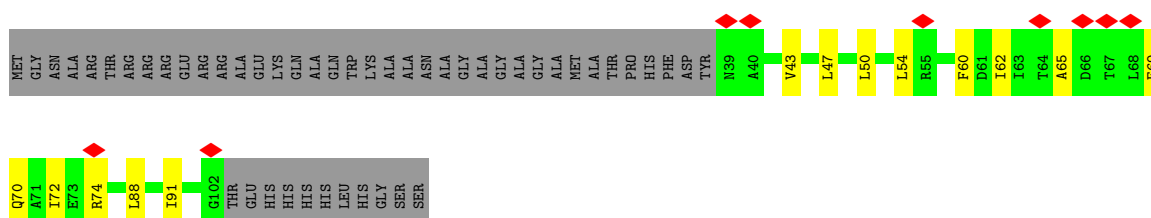
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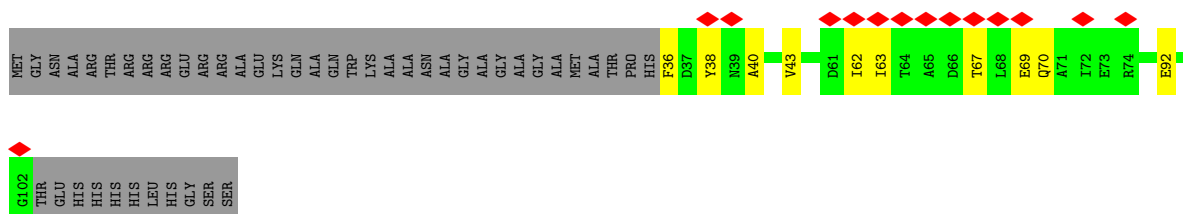
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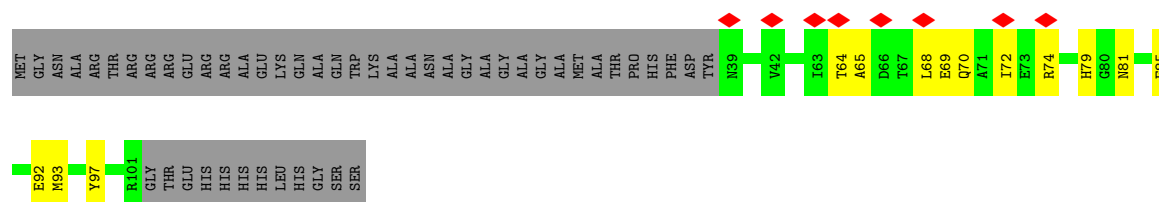
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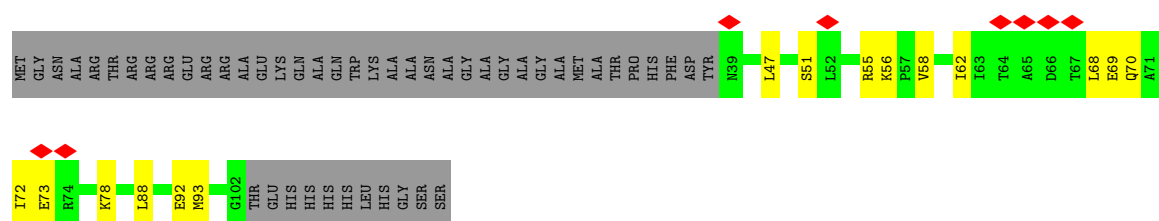
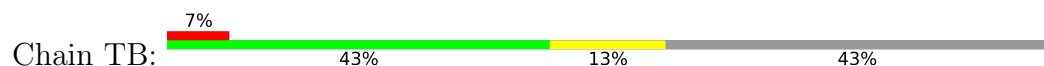
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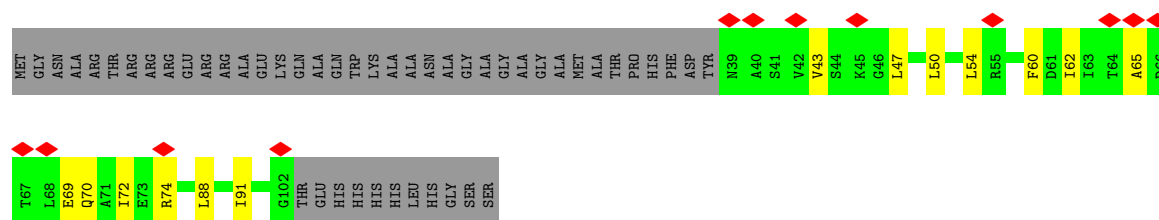
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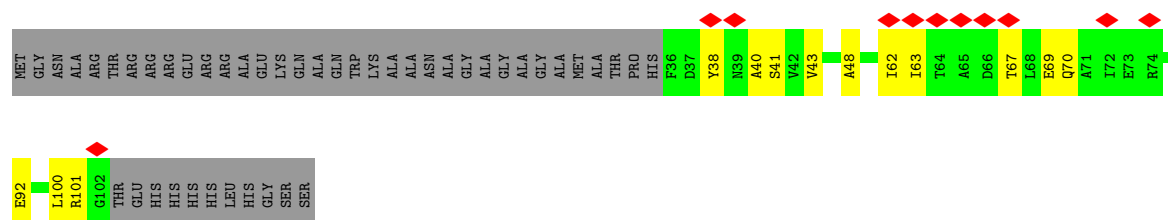
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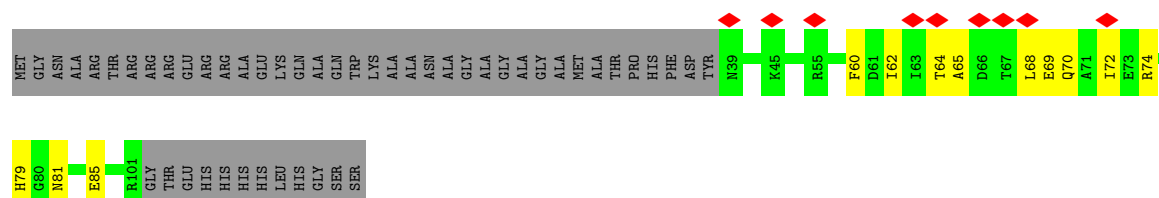
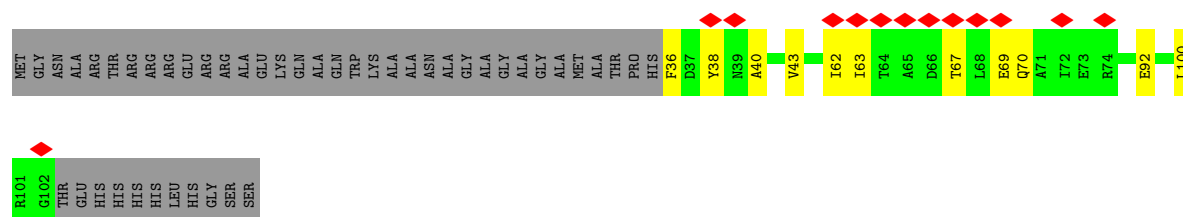
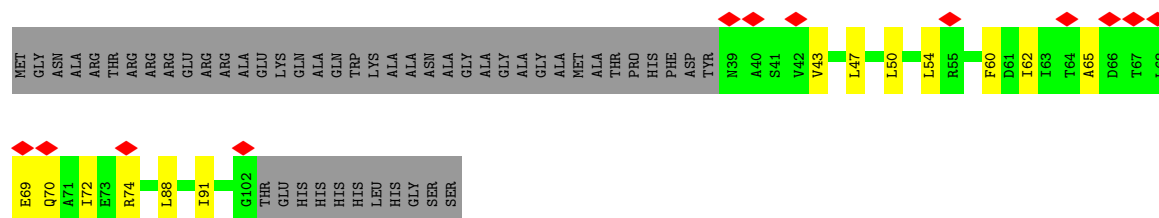
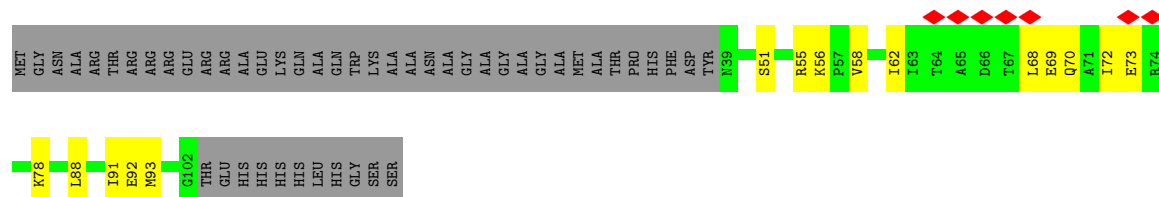
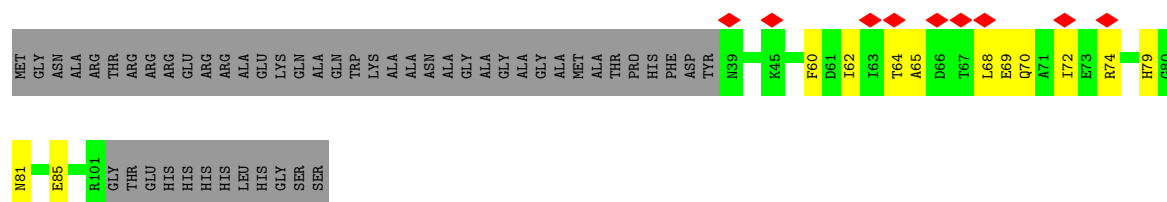


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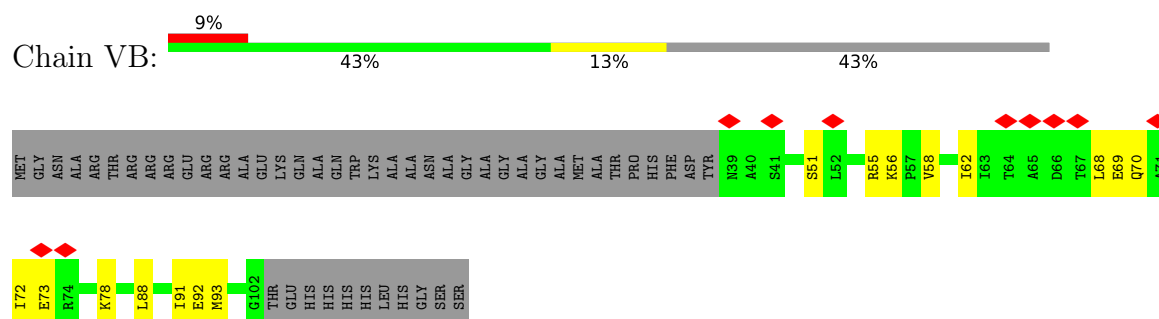


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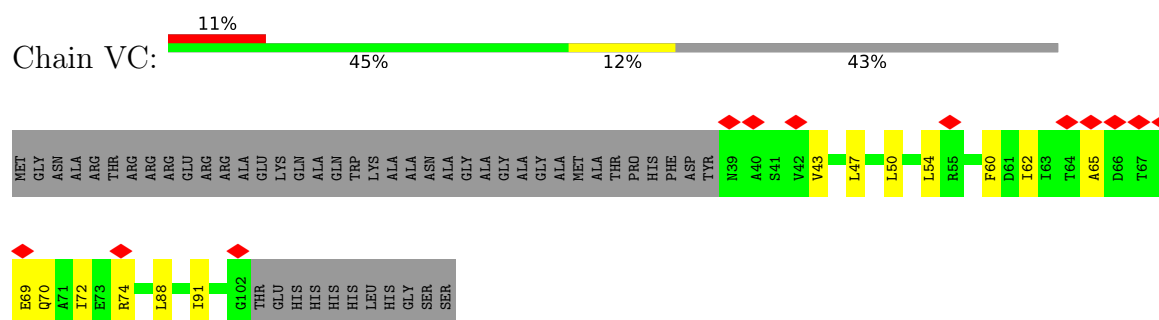




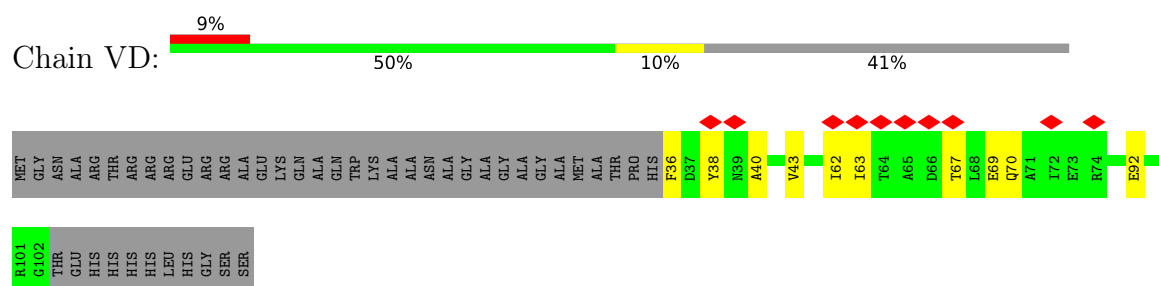
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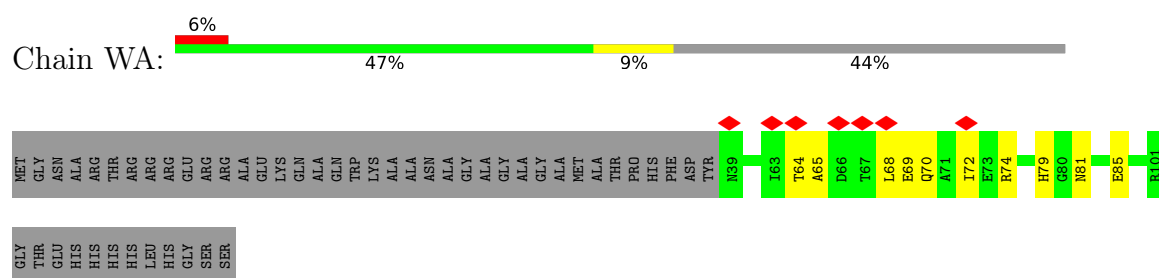
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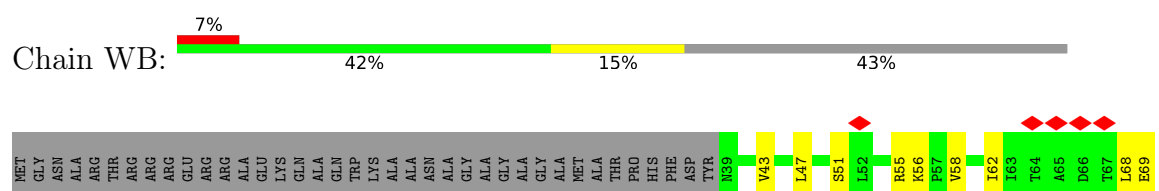
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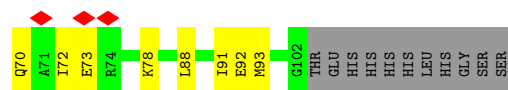


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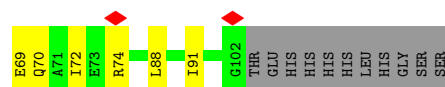
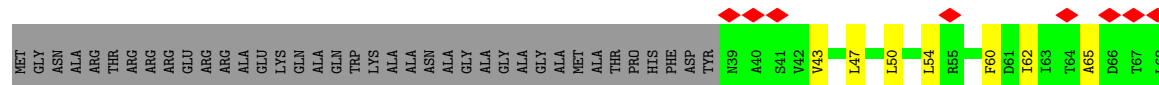


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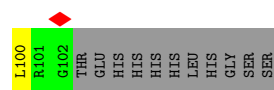
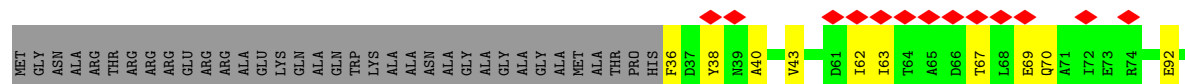




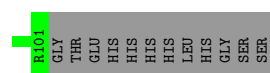
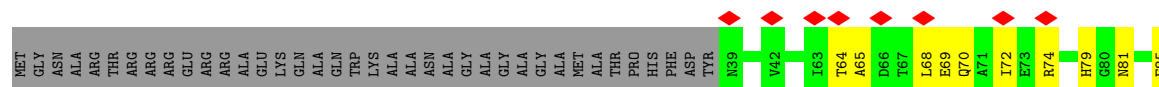
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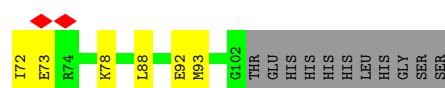
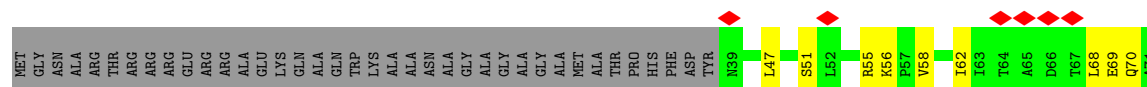
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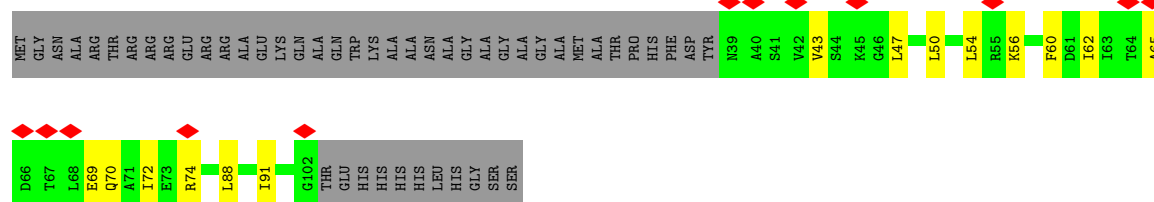
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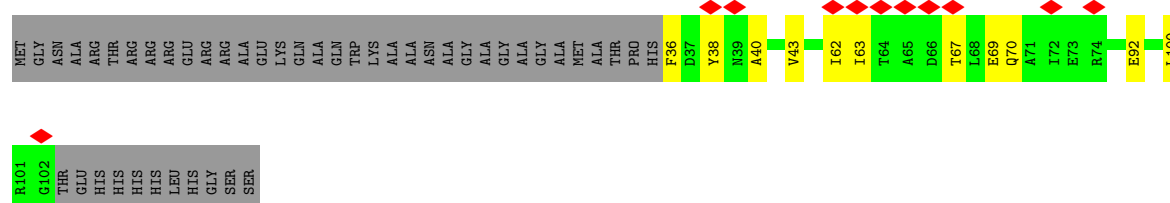
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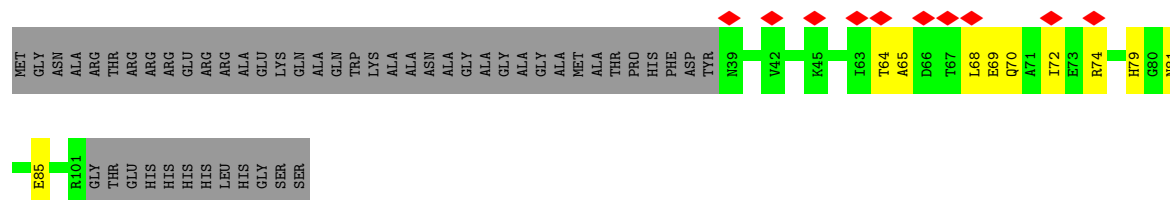
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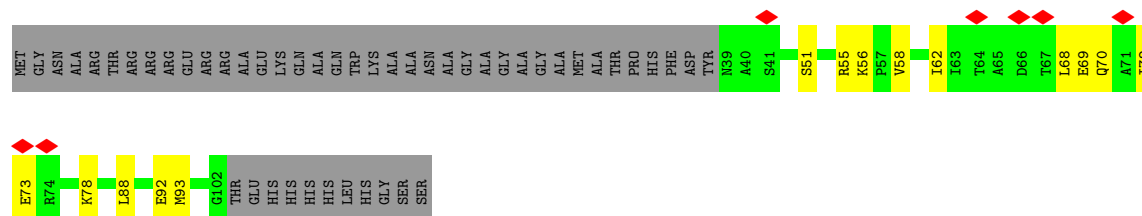
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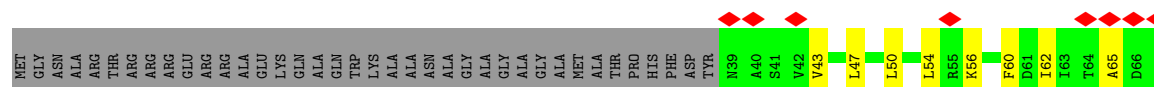
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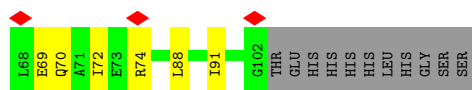


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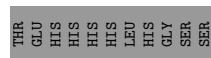
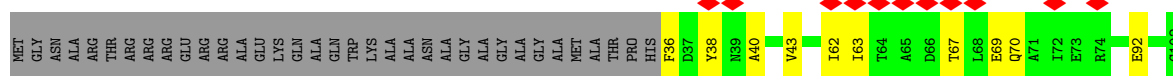


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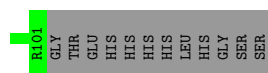
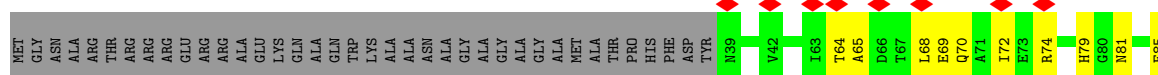




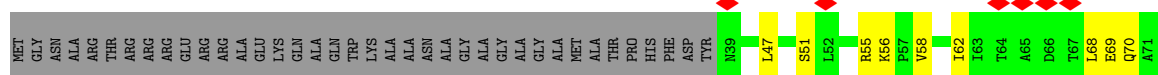
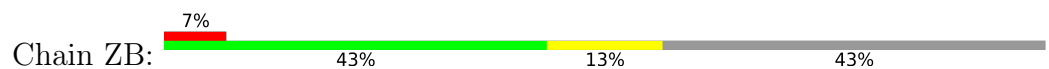
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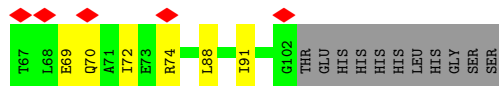
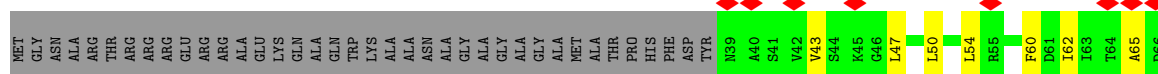
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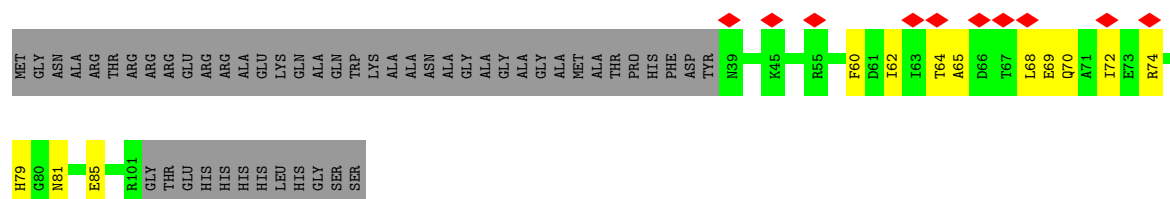
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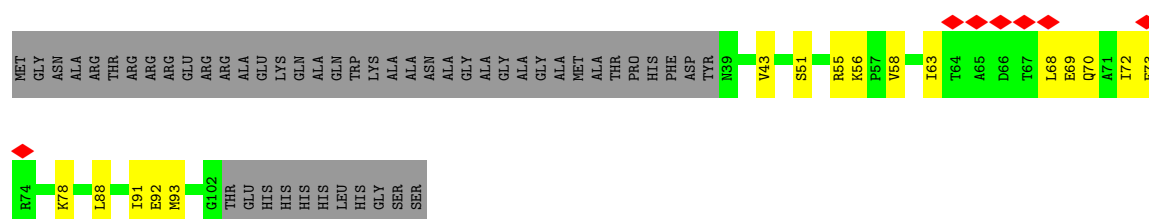
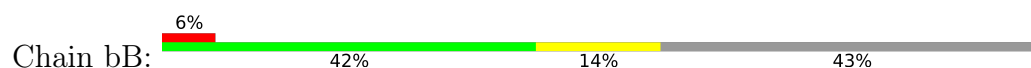
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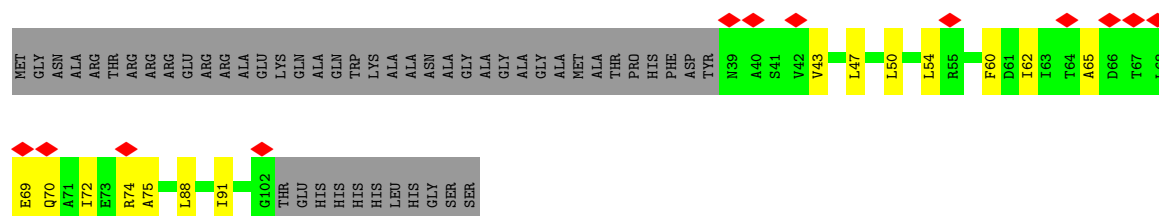
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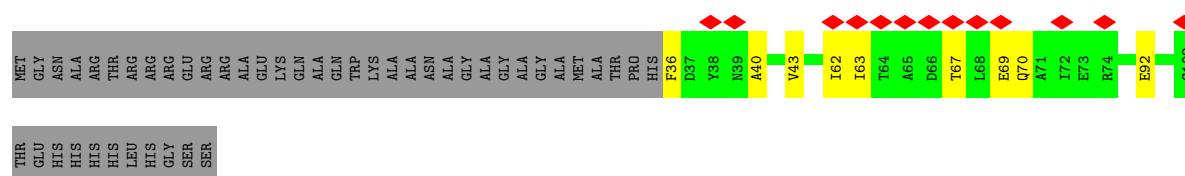
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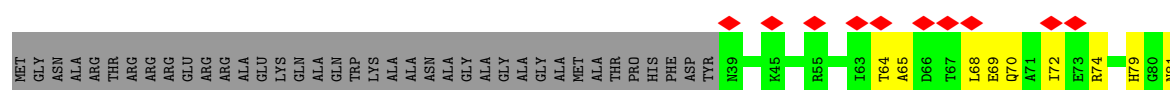
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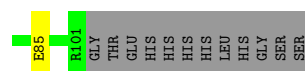


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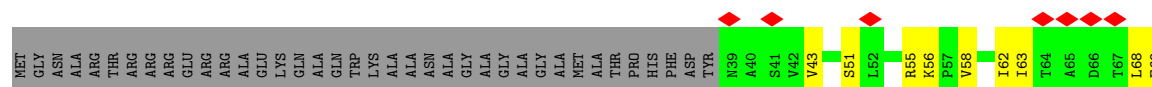
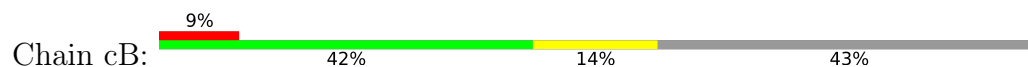


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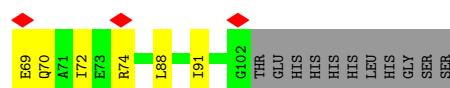
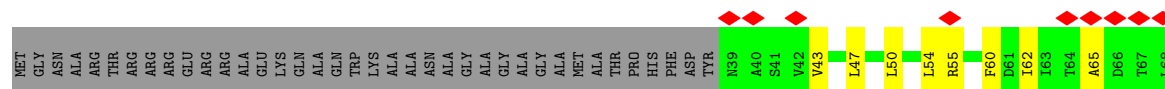




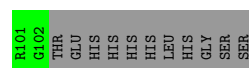
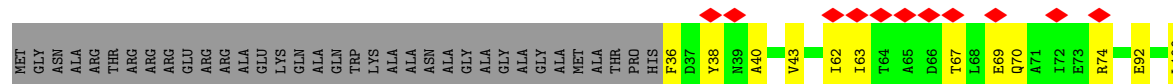
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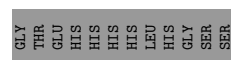
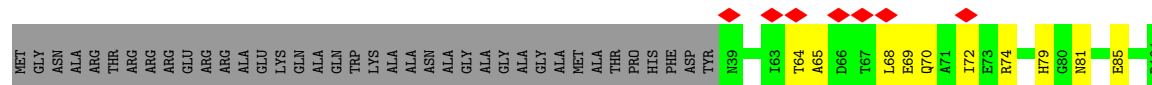
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- Molecule 1: 6,7-dimethyl-8-ribityllumazine synthase

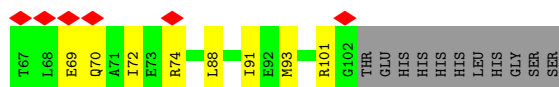
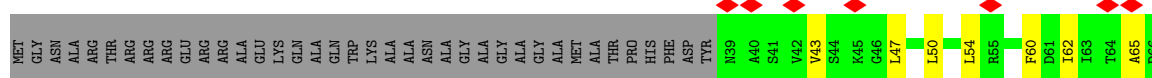
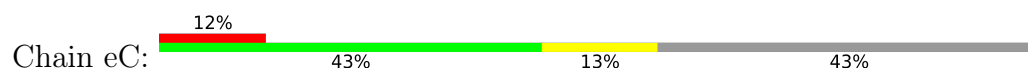


- Molecule 1: 6,7-dimethyl-8-ribityllumazine synthase

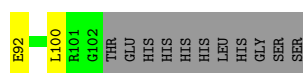
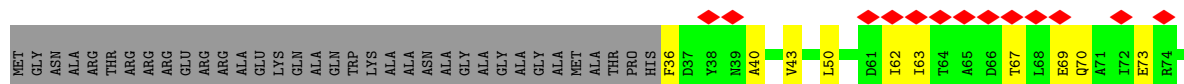




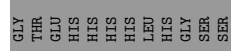
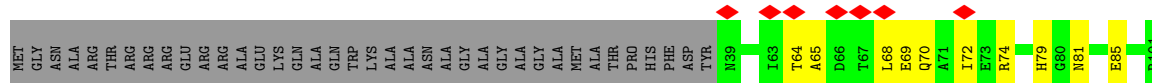
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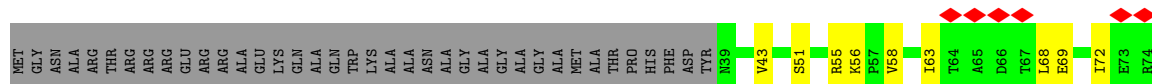
- Molecule 1: 6,7-dimethyl-8-ribityllumazine synthase



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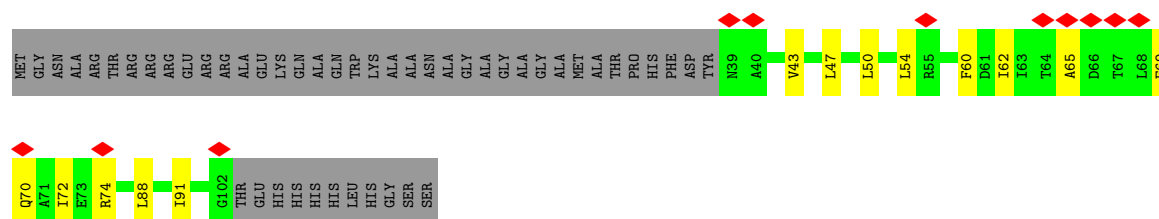


- Molecule 1: 6,7-dimethyl-8-ribityllumazine synthase

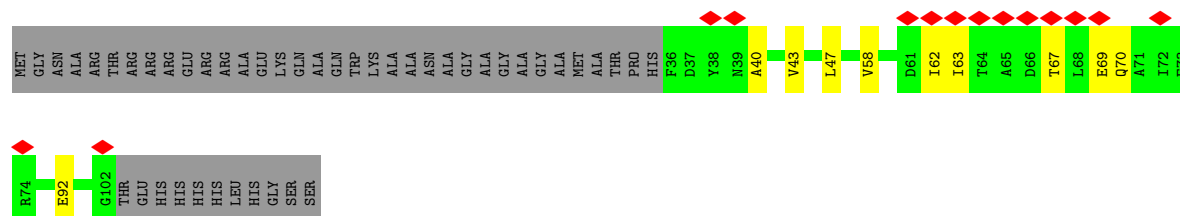


- Molecule 1: 6,7-dimethyl-8-ribityllumazine synthase

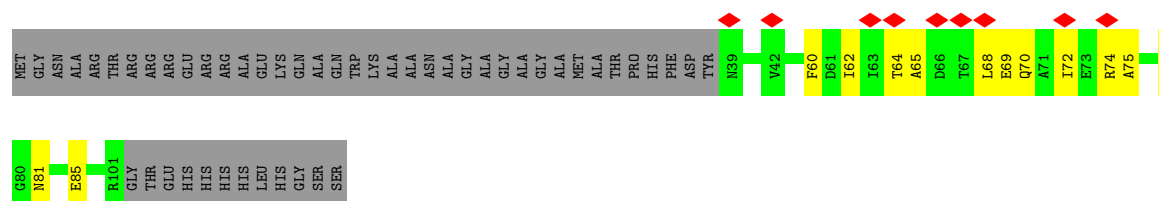




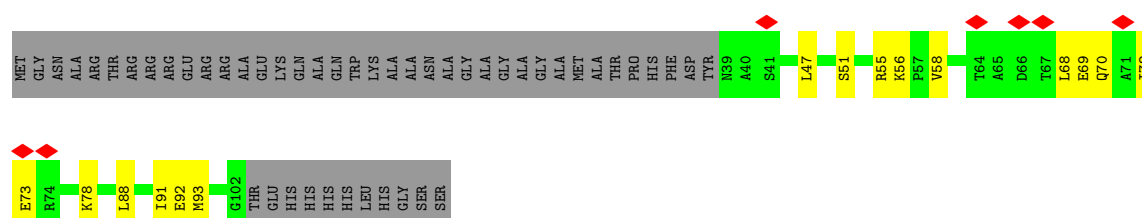
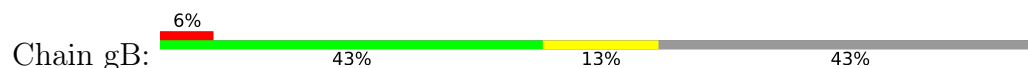
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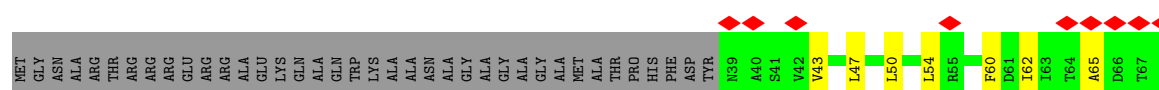
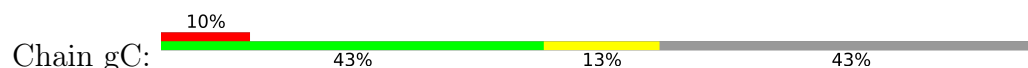
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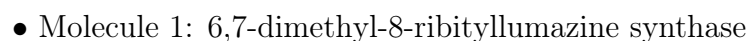


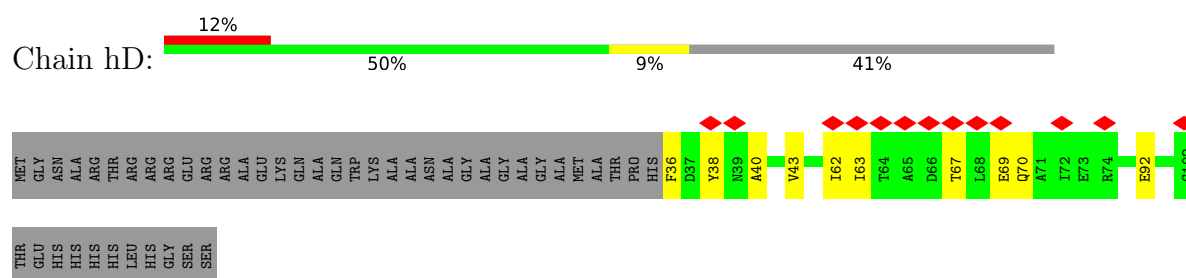
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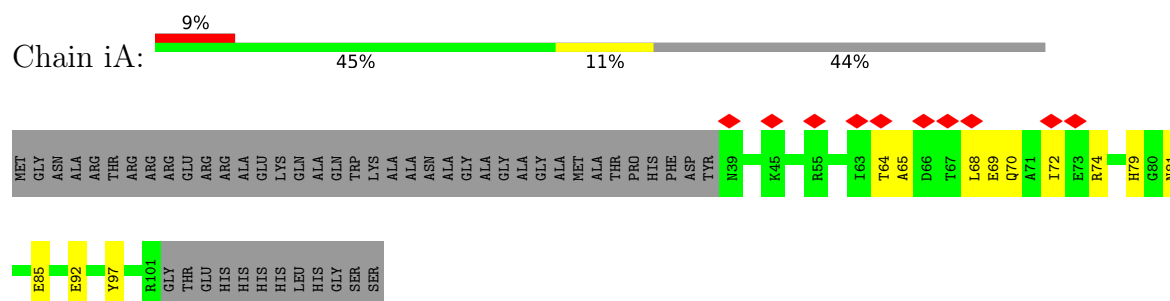
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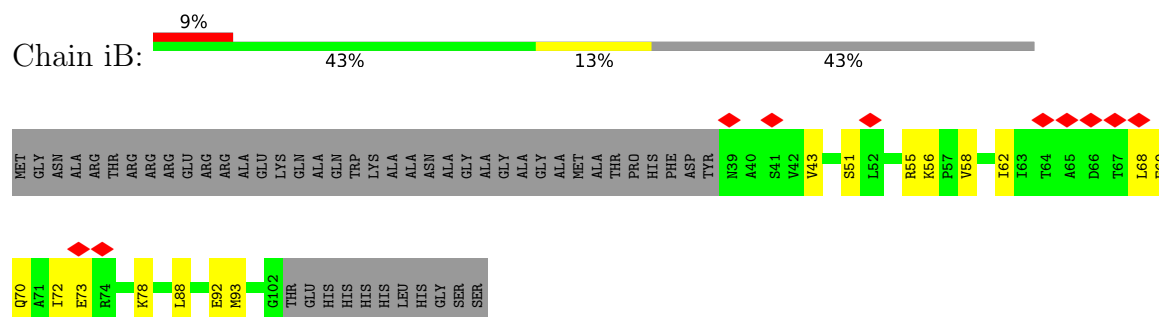




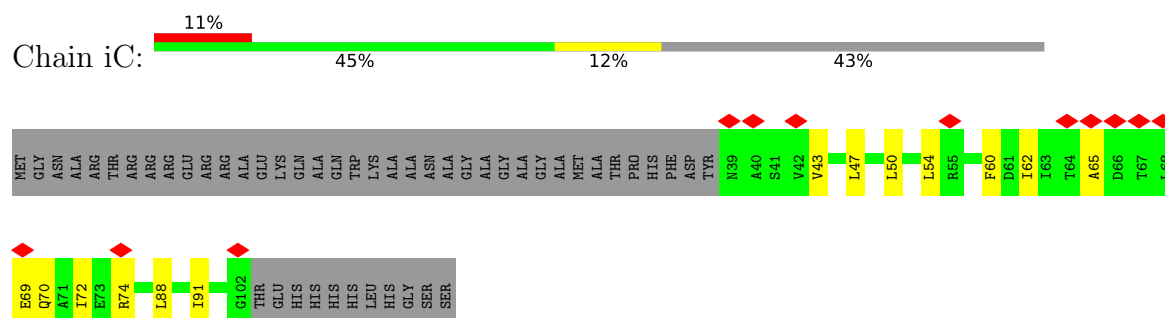
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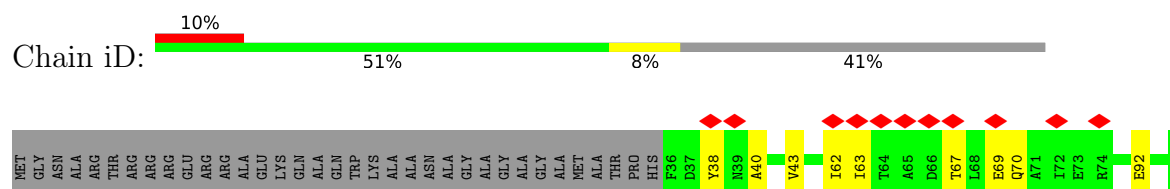
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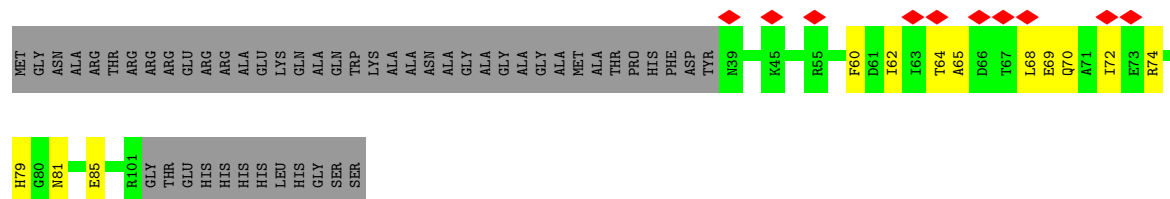
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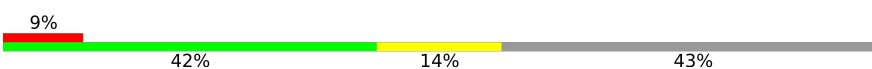
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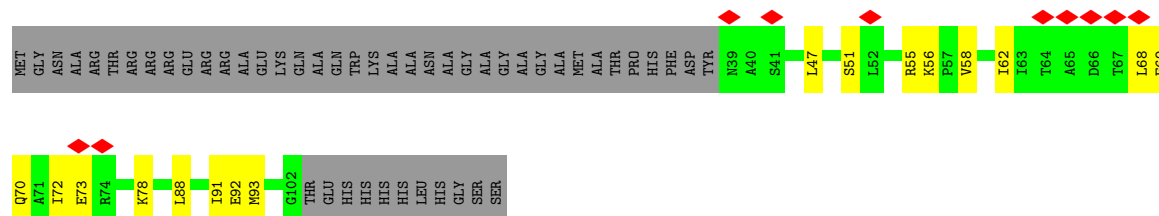
- Molecule 1: 6,7-dimethyl-8-ribityllumazine synthase

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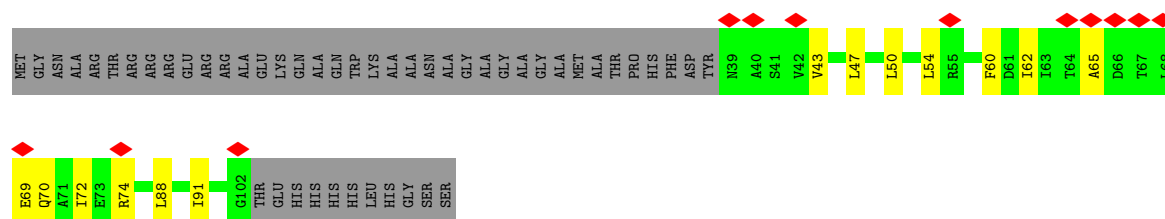
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Chain jB: 



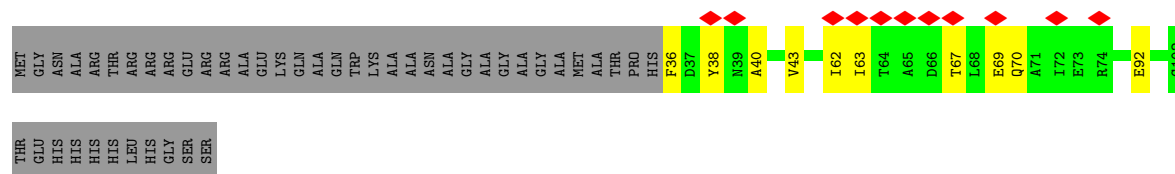
- Molecule 1: 6,7-dimethyl-8-ribityllumazine synthase

Chain jC: 



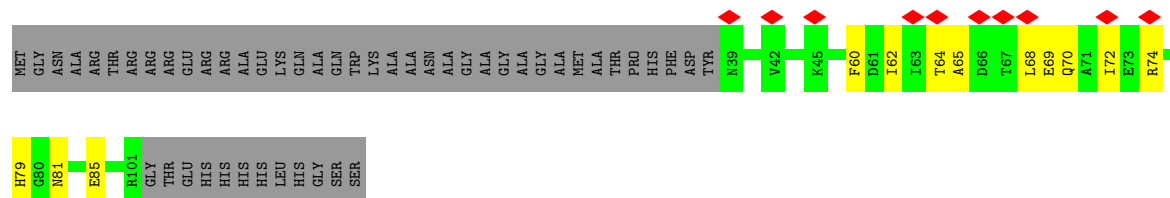
- Molecule 1: 6,7-dimethyl-8-ribityllumazine synthase

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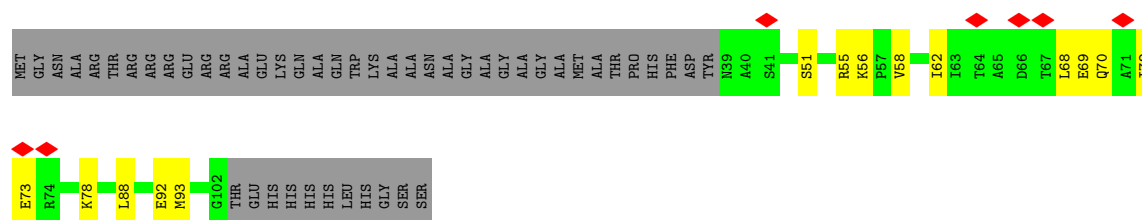
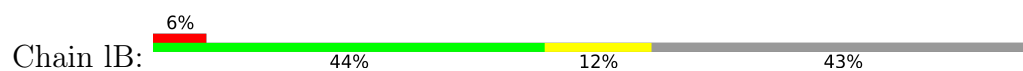


- Molecule 1: 6,7-dimethyl-8-ribityllumazine synthase

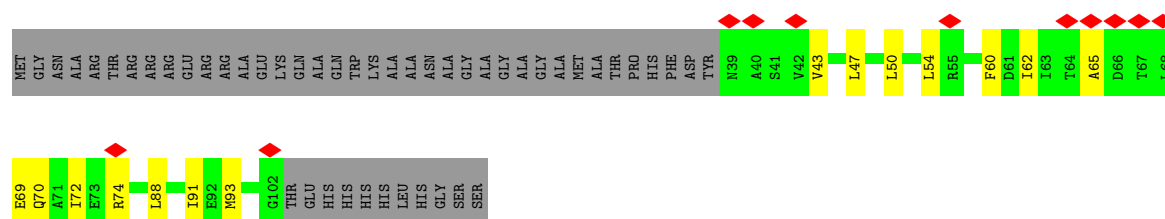
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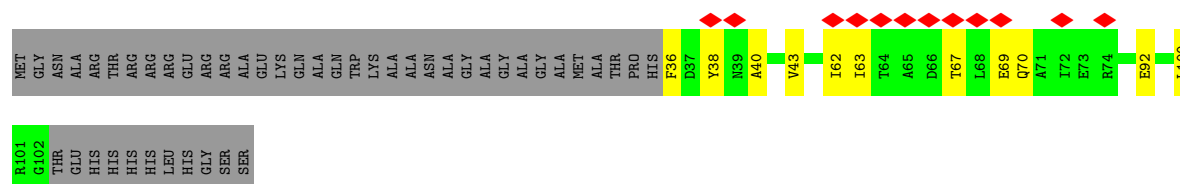
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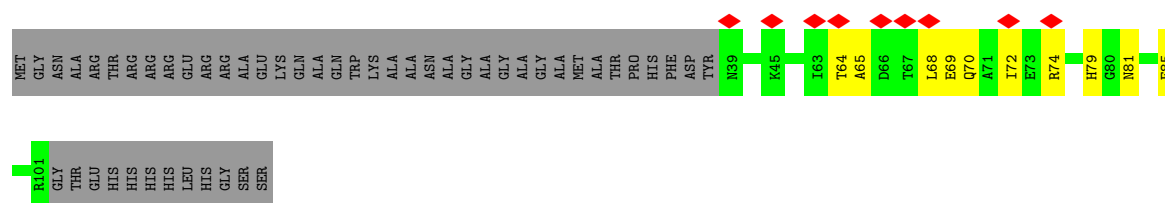
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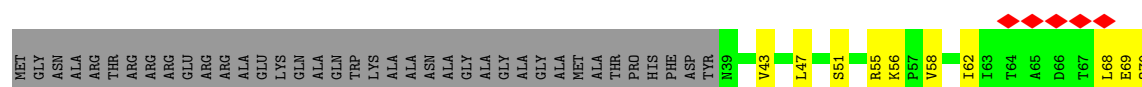
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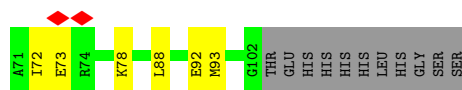


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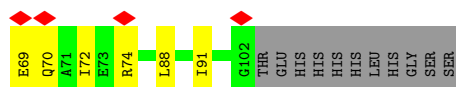
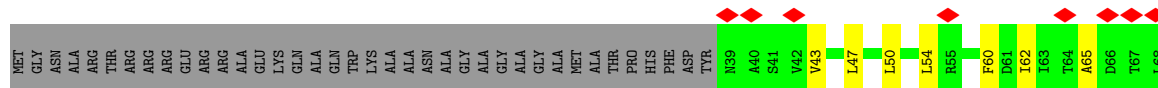


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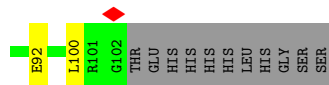
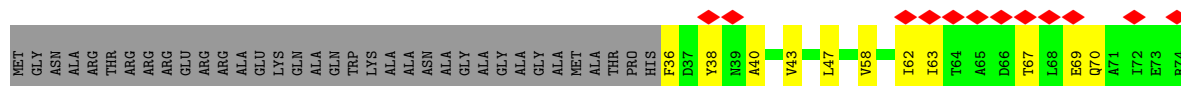




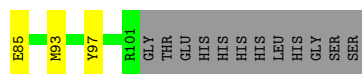
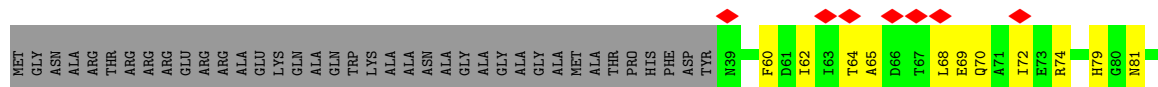
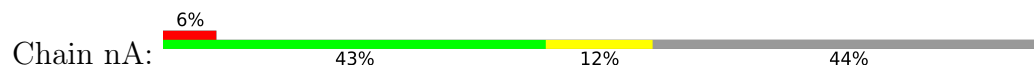
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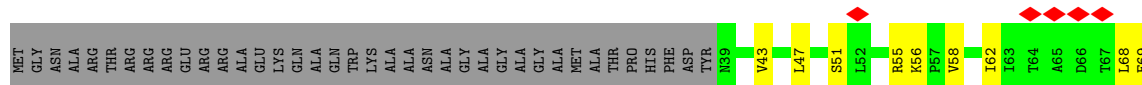
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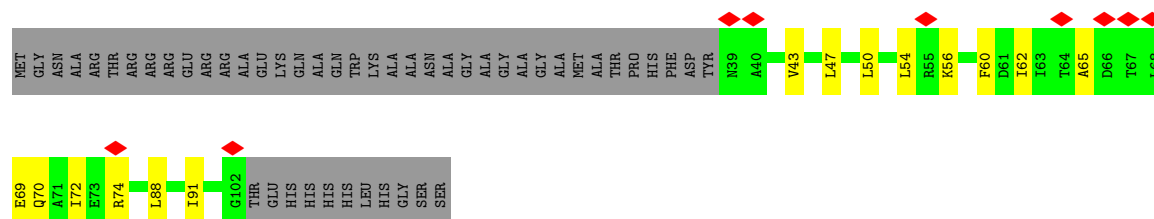
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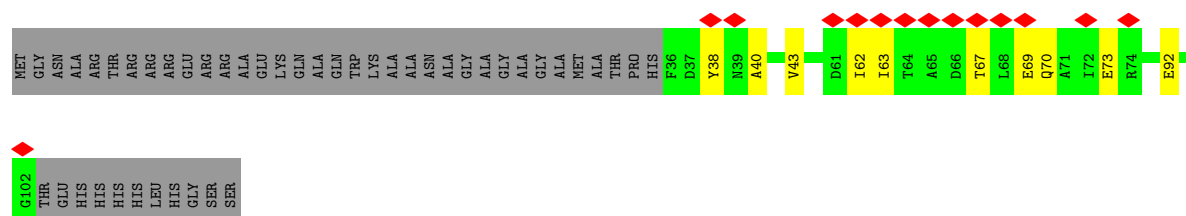
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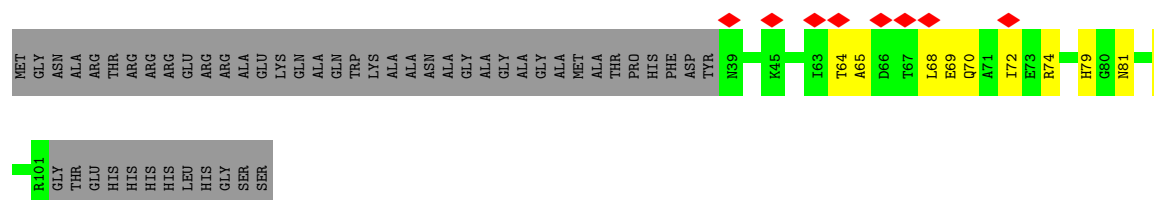
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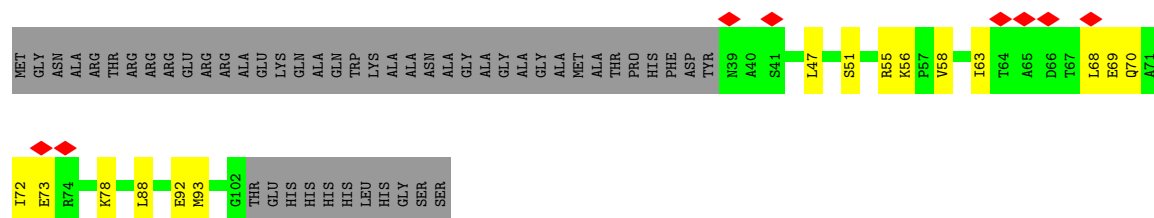
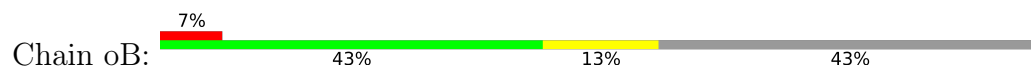
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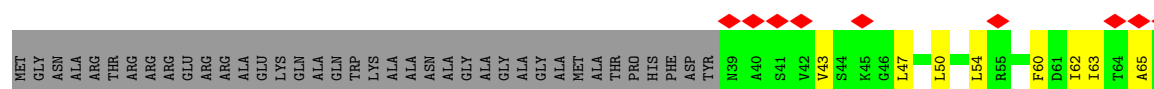
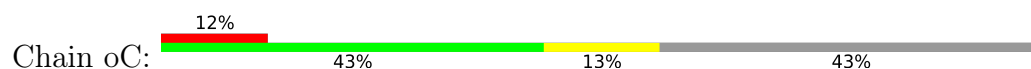
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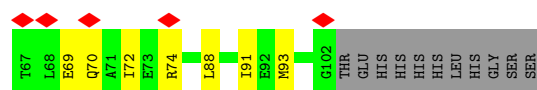


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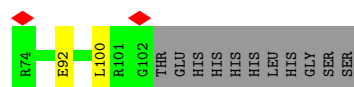
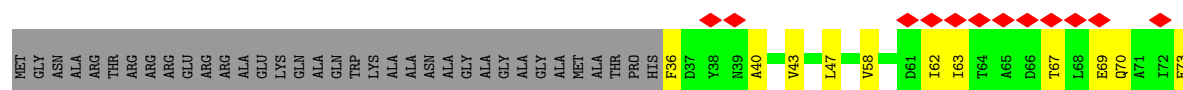


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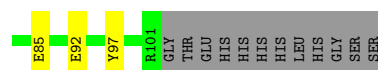
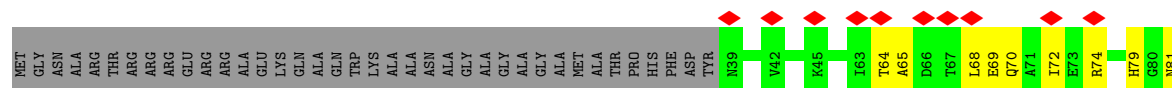




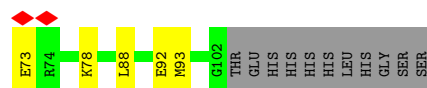
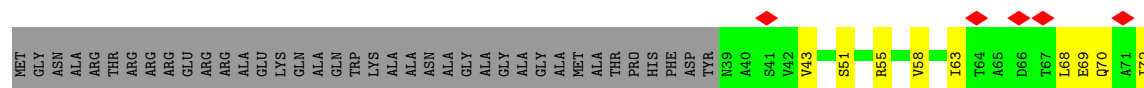
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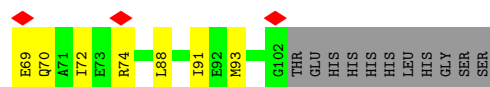
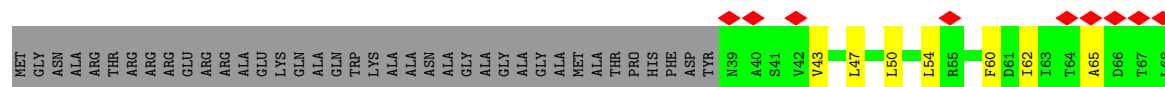
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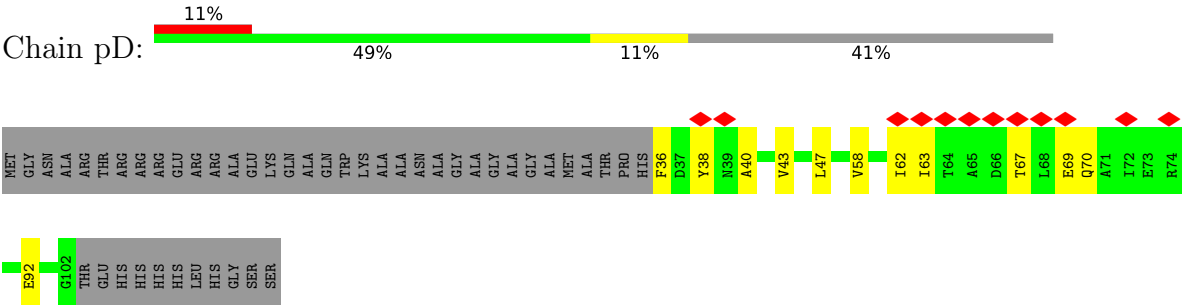
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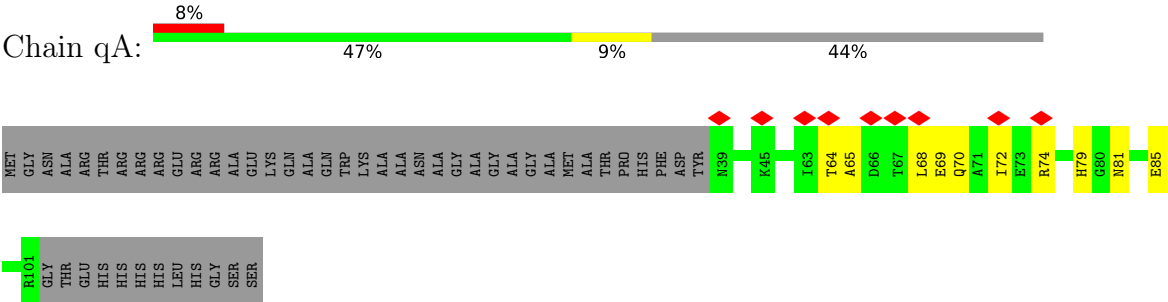
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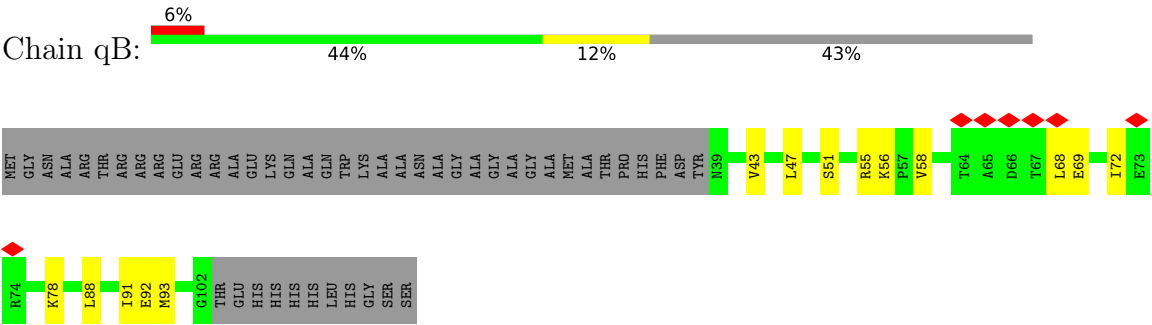
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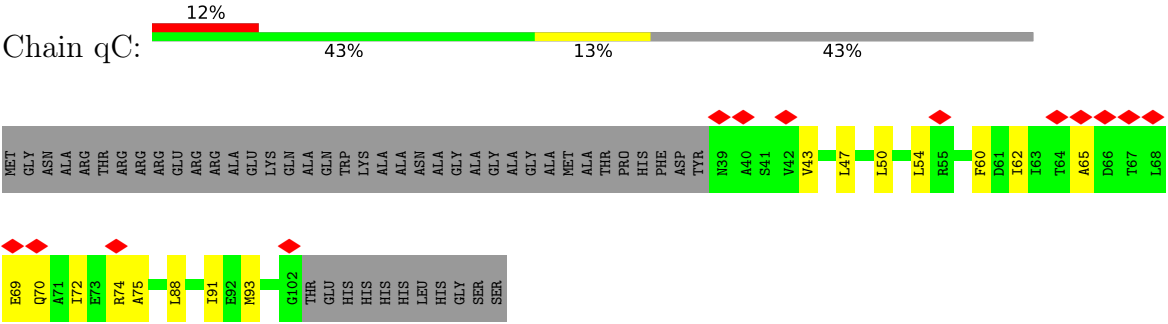
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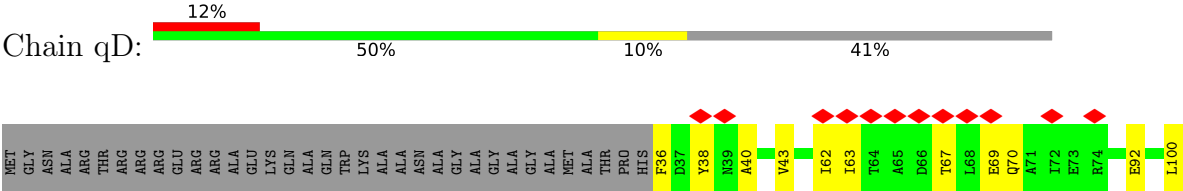
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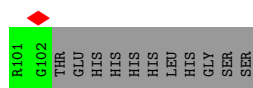


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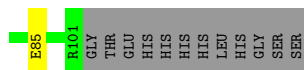
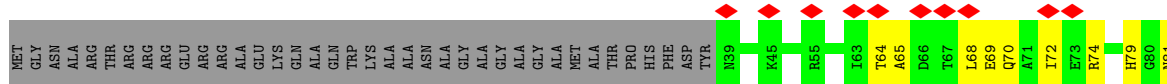


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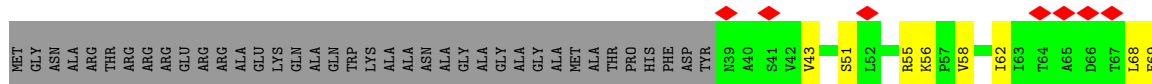
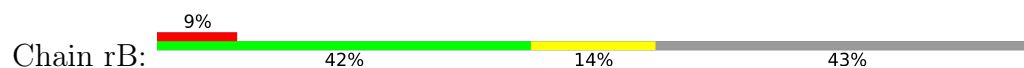




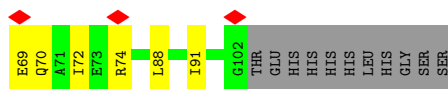
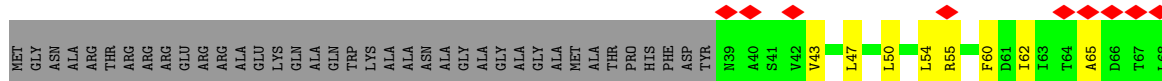
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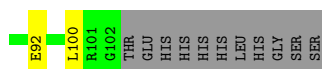
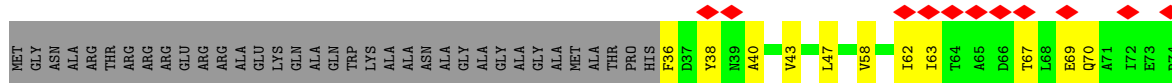
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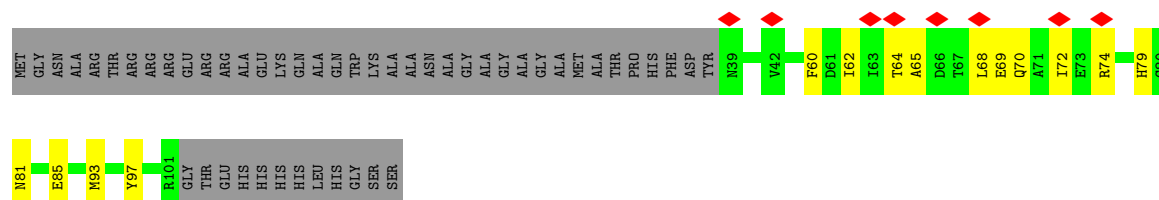
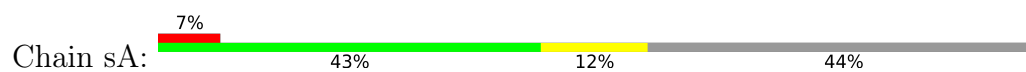
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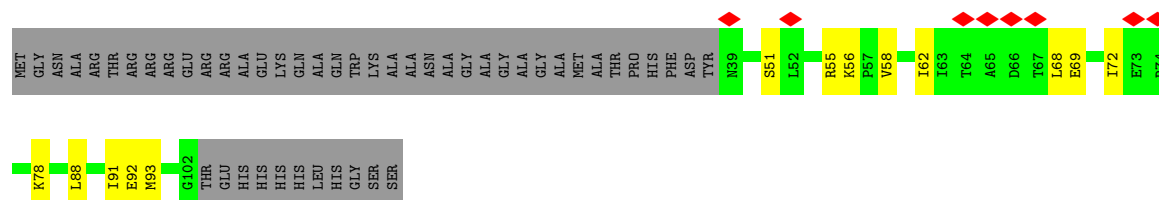
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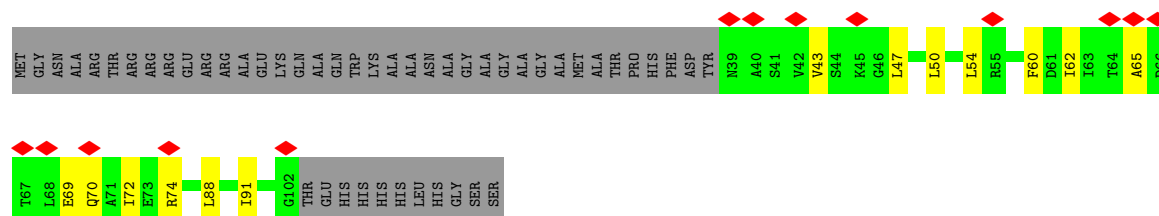
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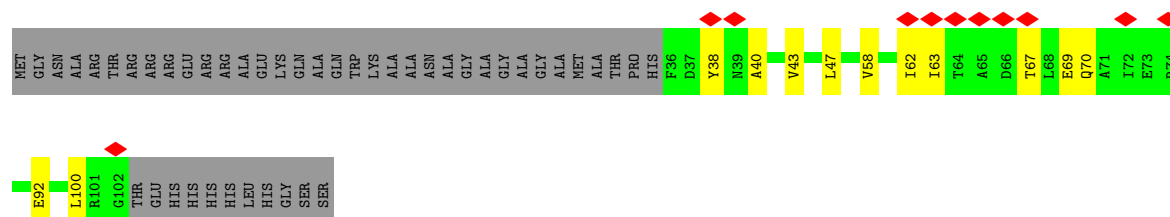
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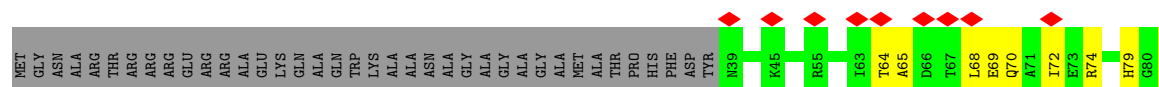
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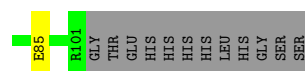


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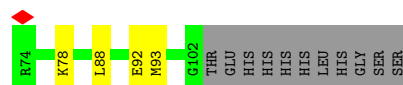
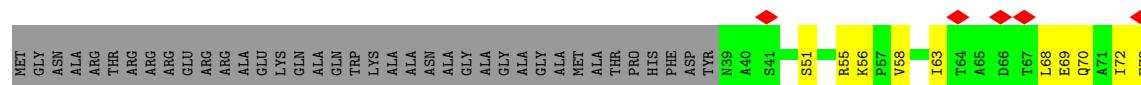


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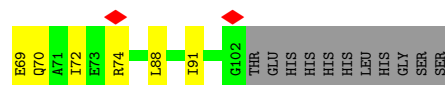
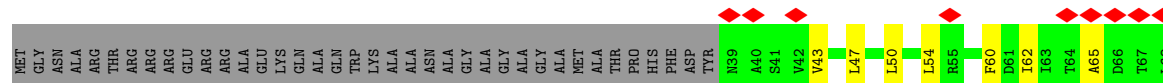




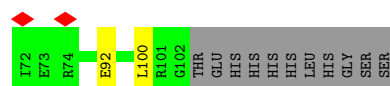
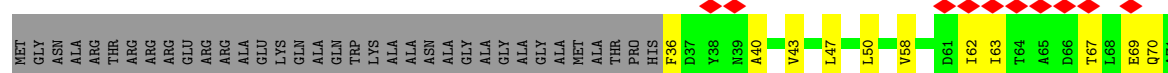
- Molecule 1: 6,7-dimethyl-8-ribityllumazine synthase



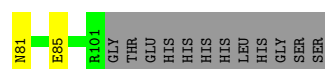
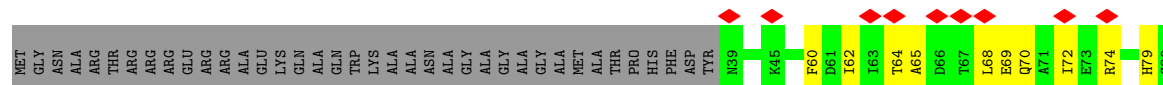
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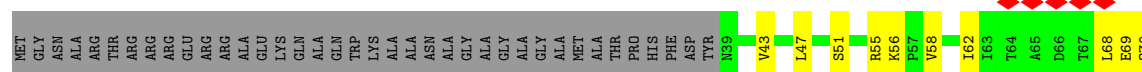
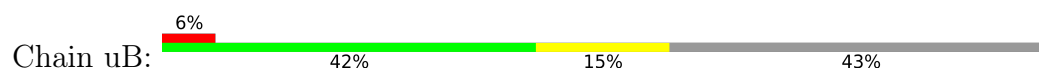
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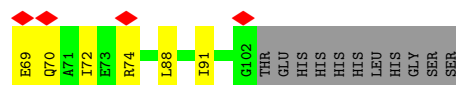
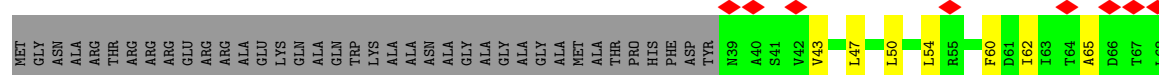
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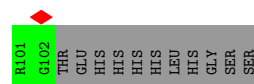
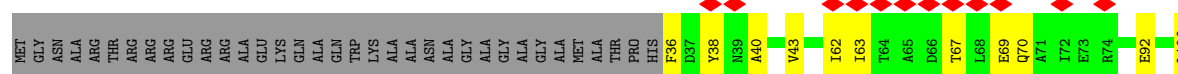
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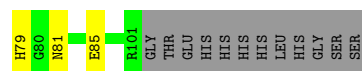
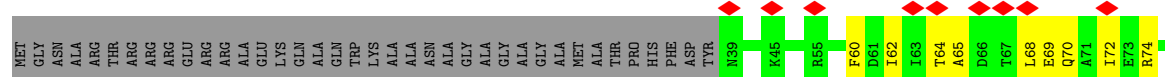
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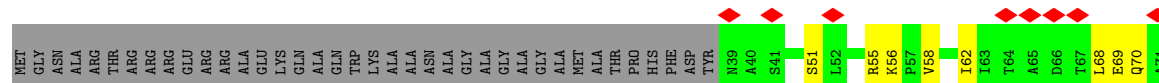
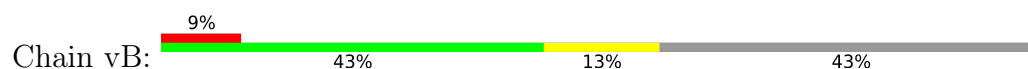
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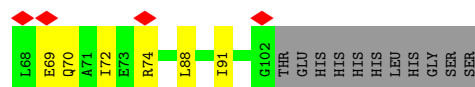
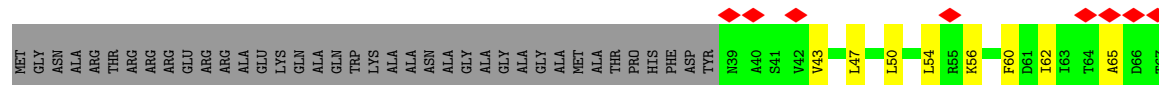


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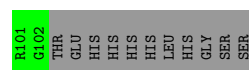
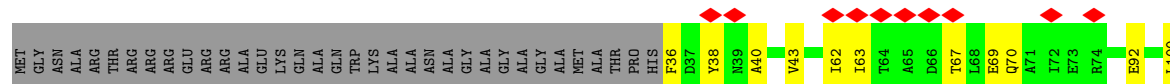




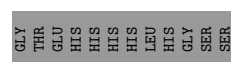
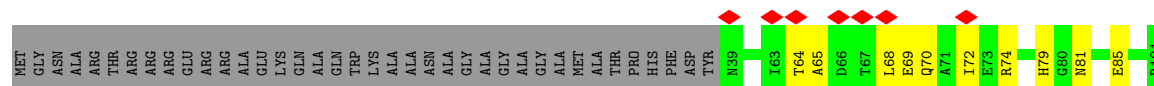
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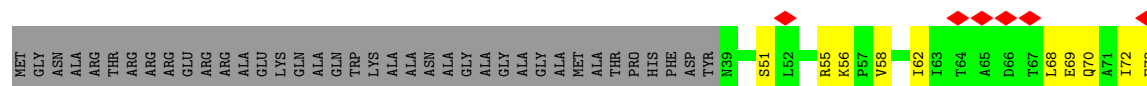
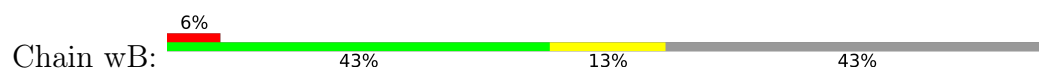
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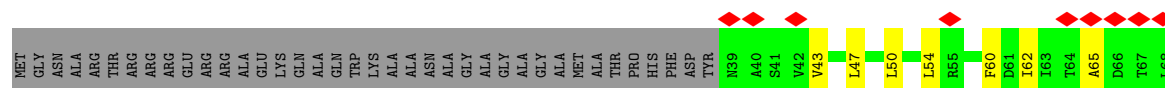


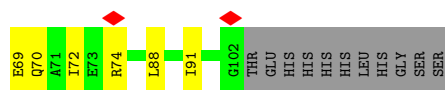
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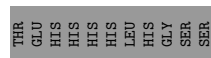
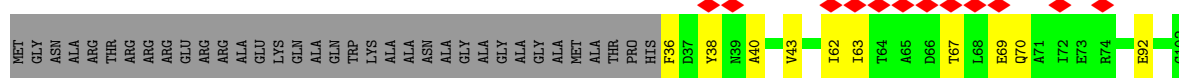
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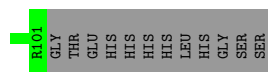
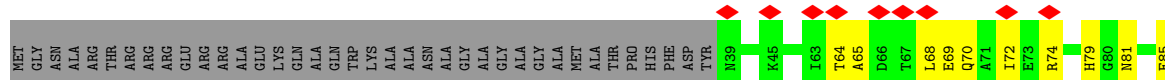




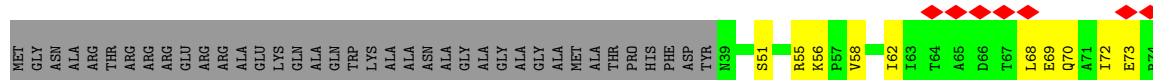
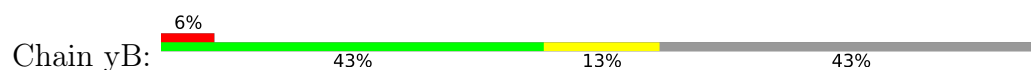
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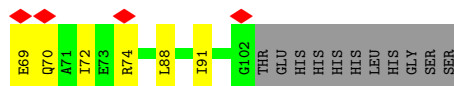
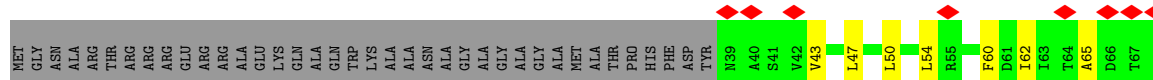
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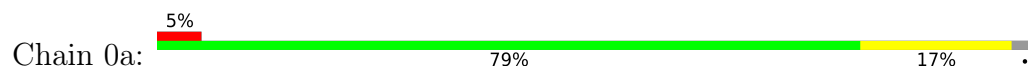
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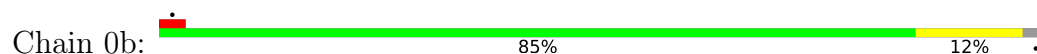
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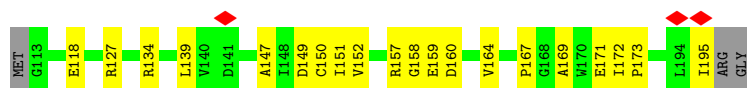
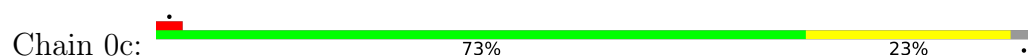
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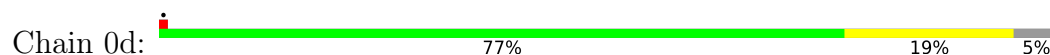
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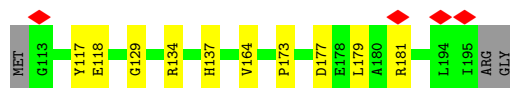
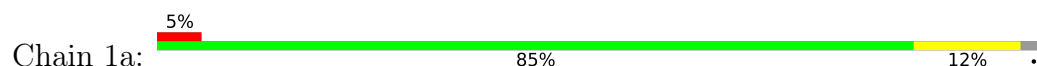
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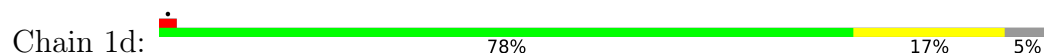


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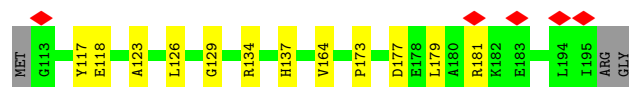
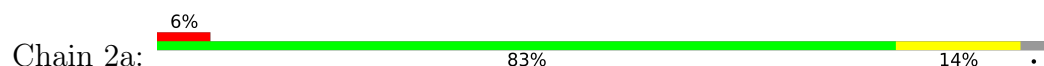




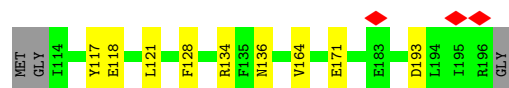
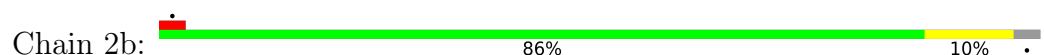
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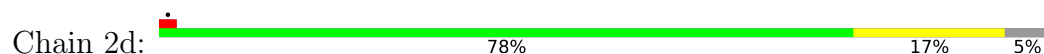
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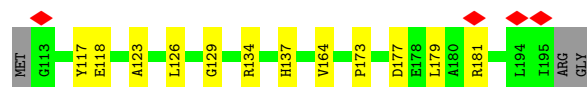
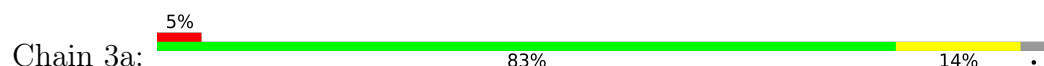
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- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain 3b:  87% 9%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain 3c:  73% 23%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain 3d:  76% 20% 5%



- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain 4a:  6% 83% 14%



- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain 4b:  86% 10%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain 4c:  72% 24%

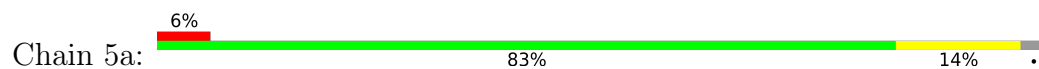


- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain 4d:  76% 20% 5%



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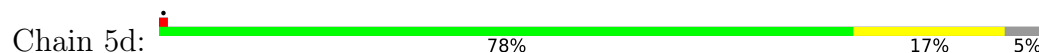
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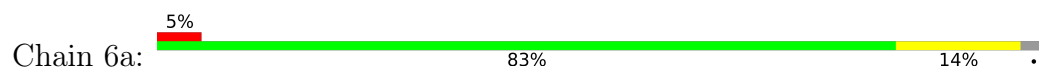
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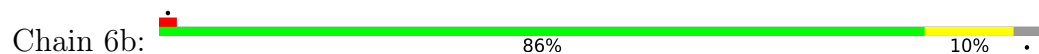
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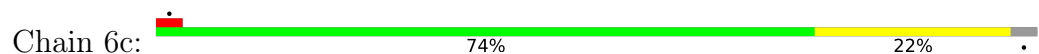
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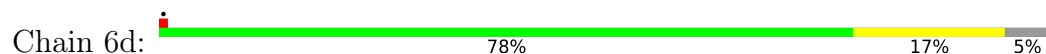


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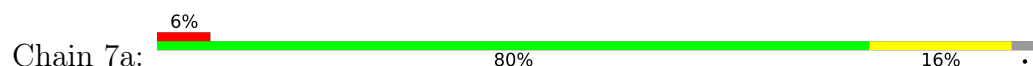




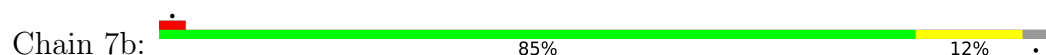
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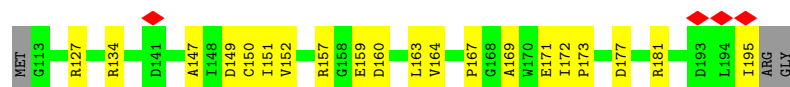
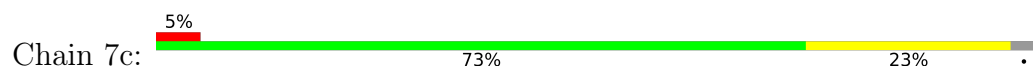
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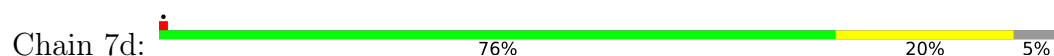
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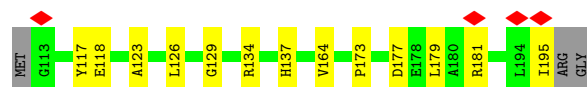
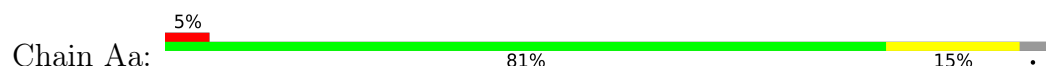
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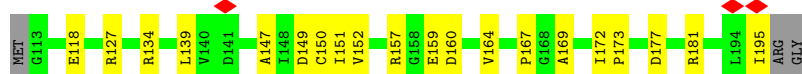
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Ab:  87% 9% .




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Ac:  73% 23% .




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Ad:  77% 19% 5% .




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Ba:  5% 83% 14% .




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Bb:  87% 9% .




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Bc:  5% 76% 21% .

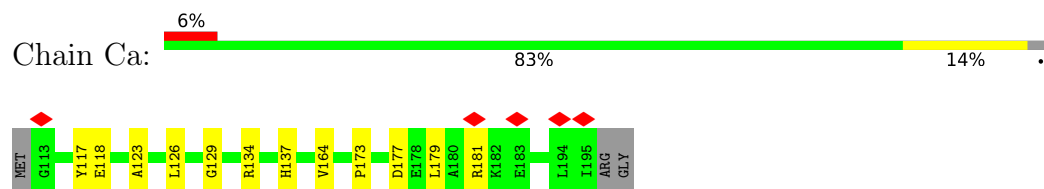


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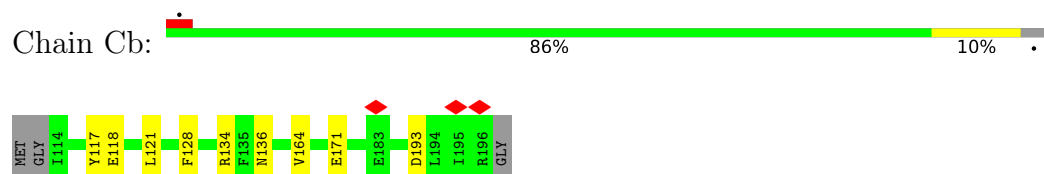
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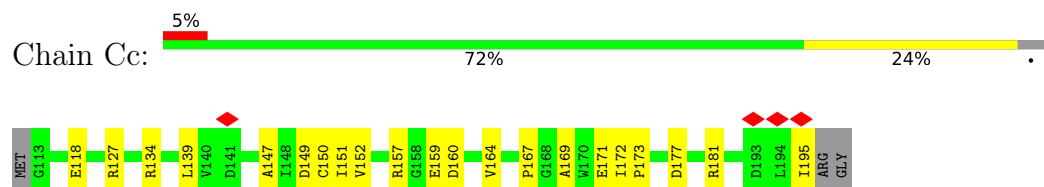
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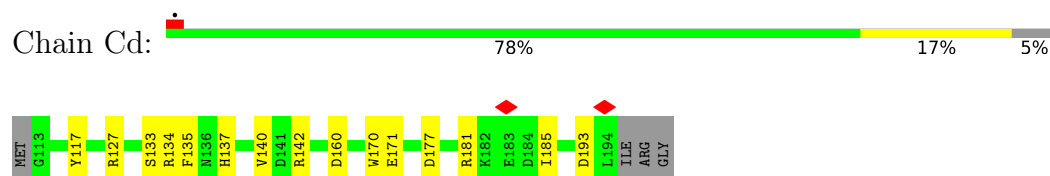
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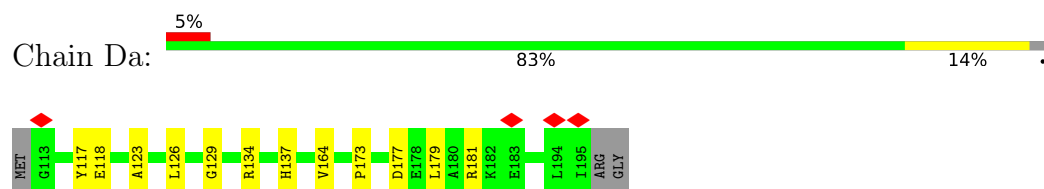
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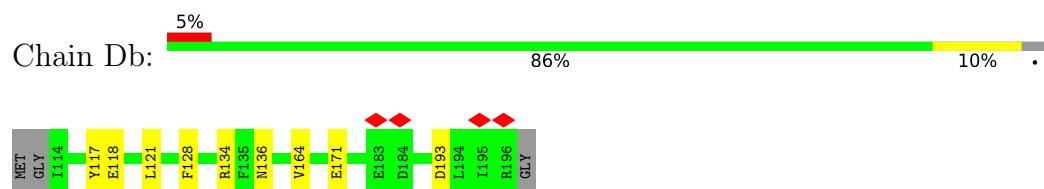
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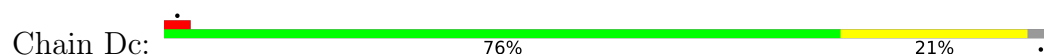
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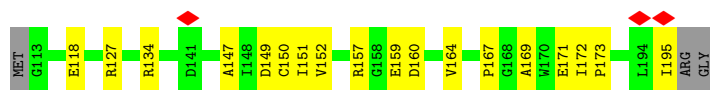


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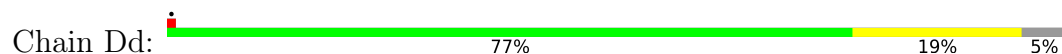


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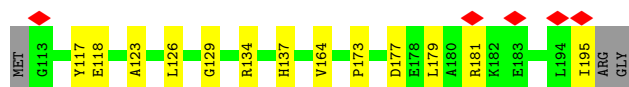
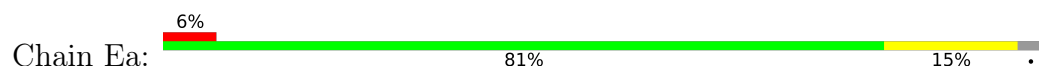




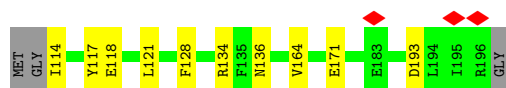
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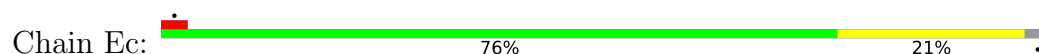
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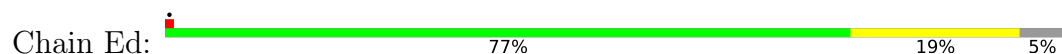
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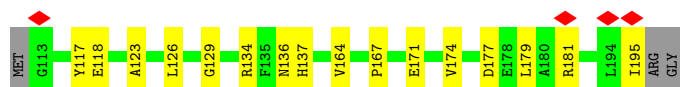
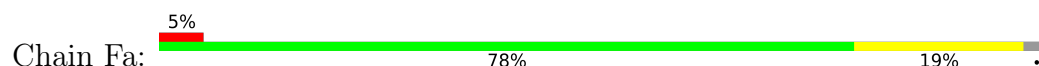
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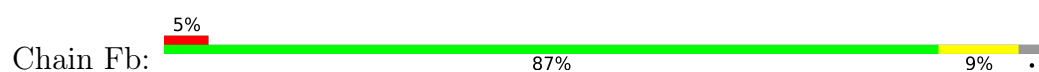
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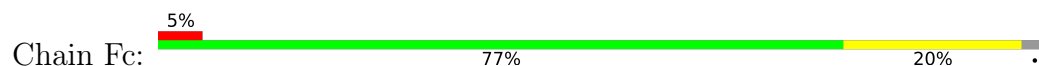
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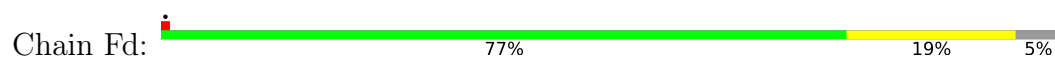
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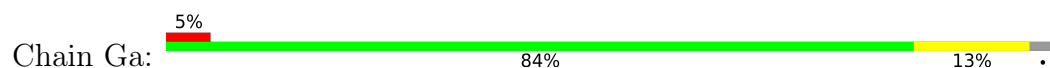
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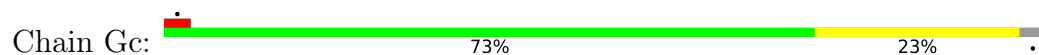
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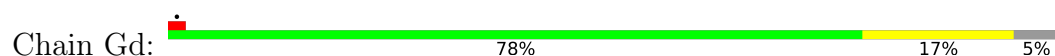
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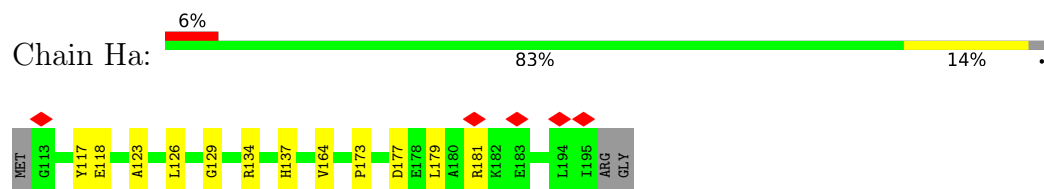
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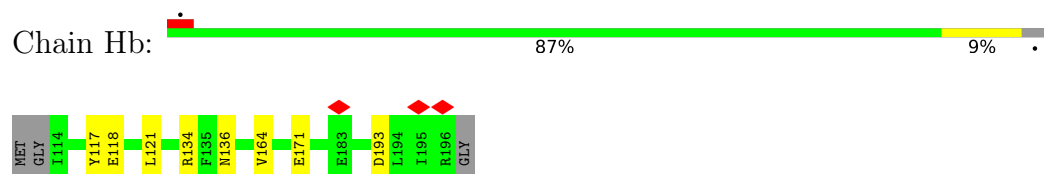
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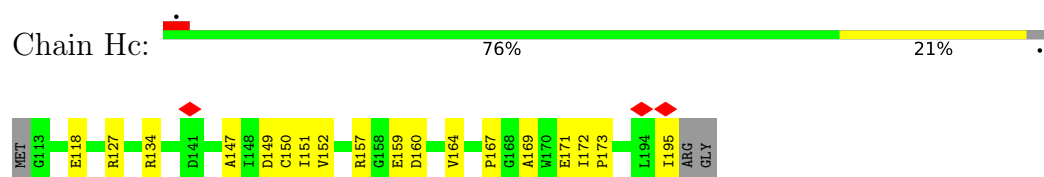
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



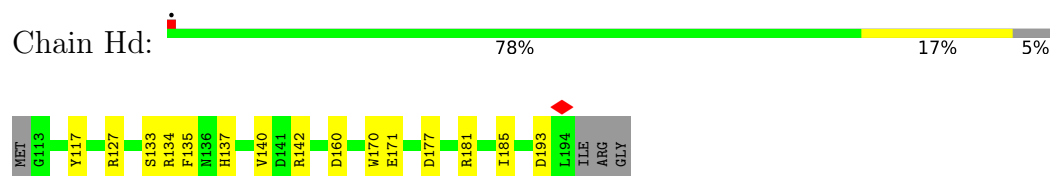
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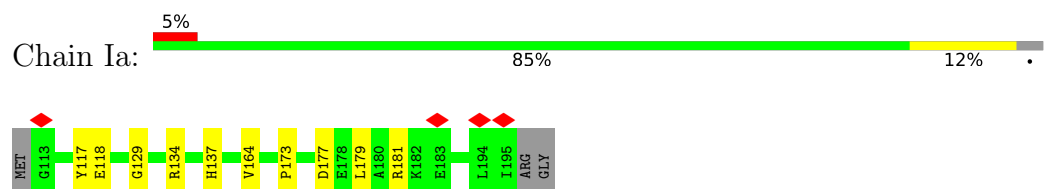
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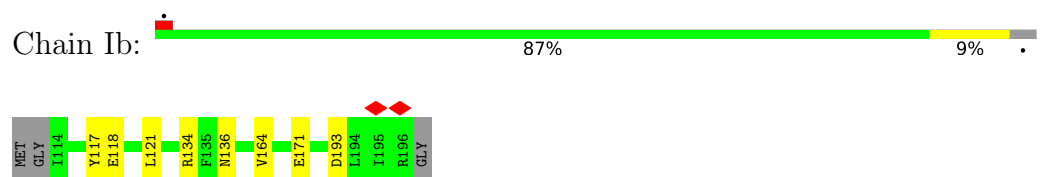
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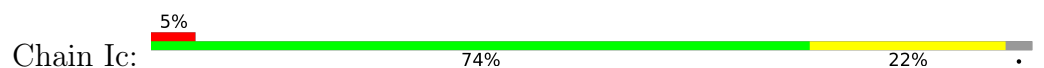
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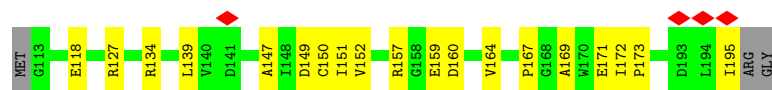


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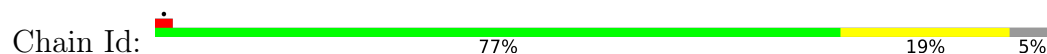


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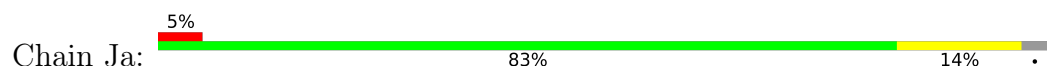




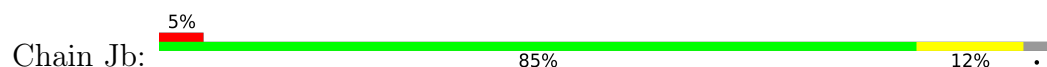
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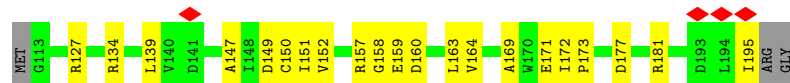
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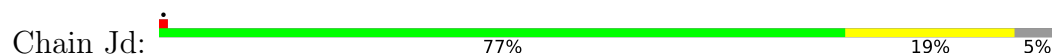
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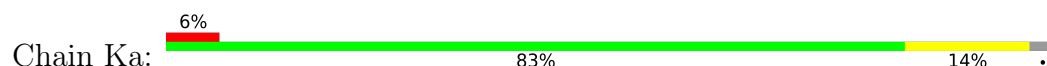
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- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Kb: 




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Kc: 




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Kd: 



- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain La: 




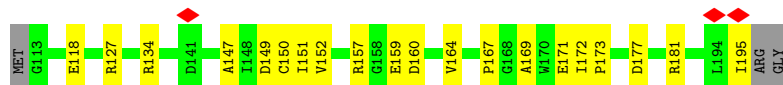
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Lb: 




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Lc: 

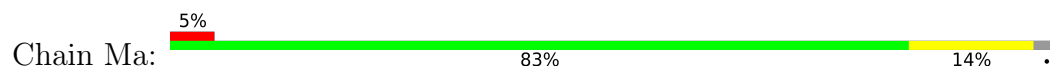


- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

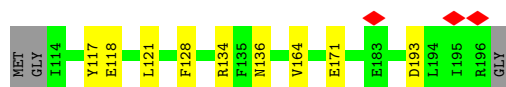
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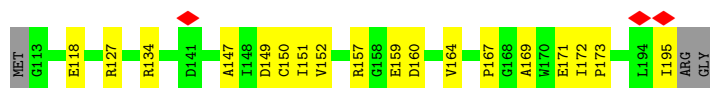
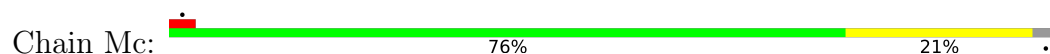
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



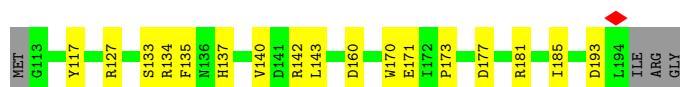
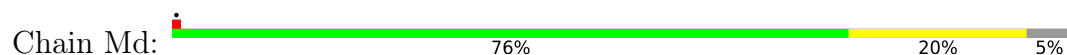
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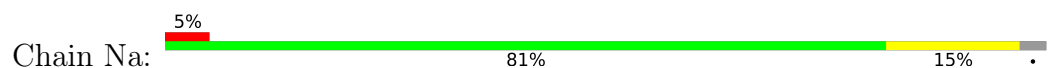
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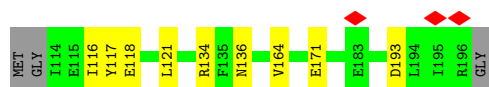
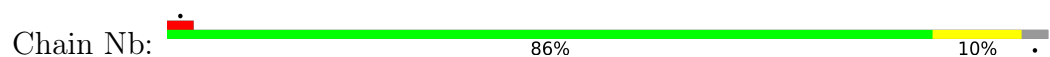
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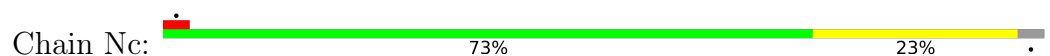
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



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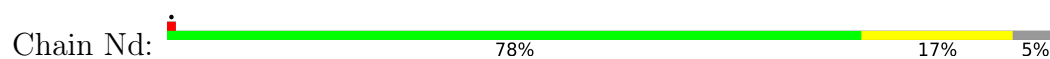


- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

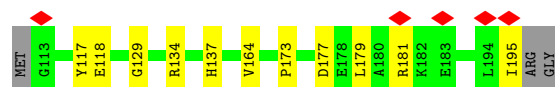
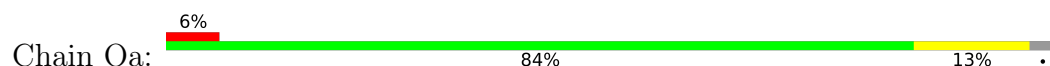




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



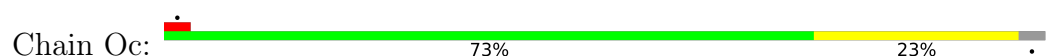
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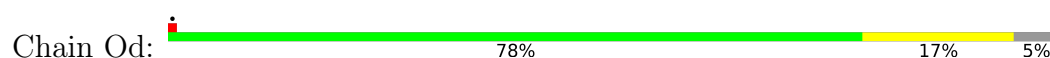
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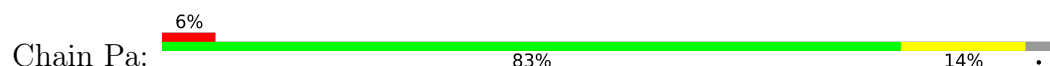
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase




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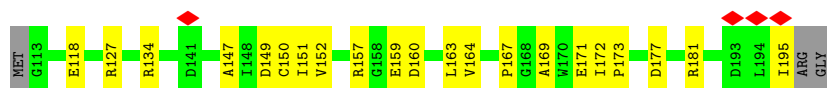
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Pb:  87% 9%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Pc:  5% 72% 24%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Pd:  78% 17% 5%




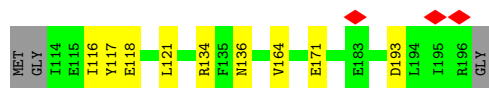
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Qa:  6% 84% 13%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Qb:  86% 10%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Qc:  5% 73% 23%

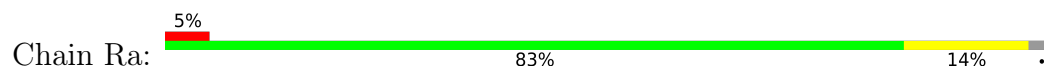


- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

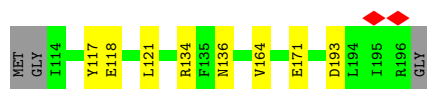
Chain Qd:  77% 19% 5%



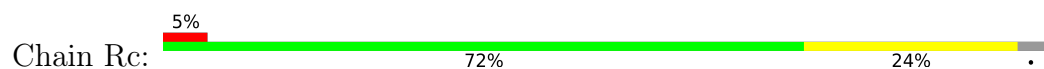
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



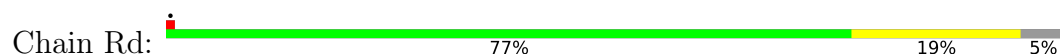
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



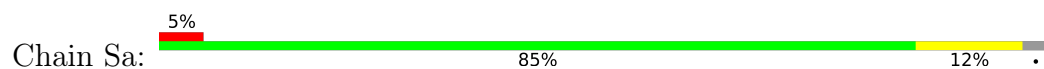
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



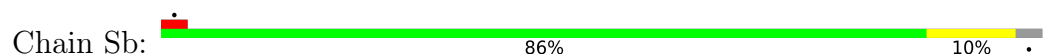
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



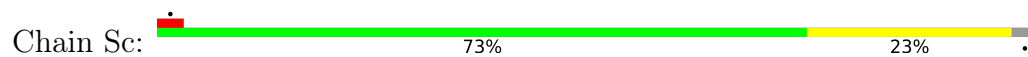
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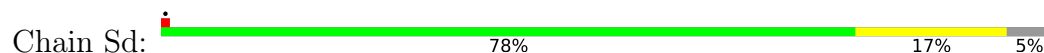
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



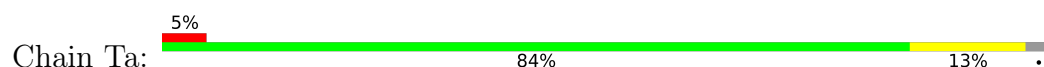
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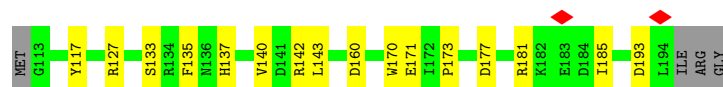
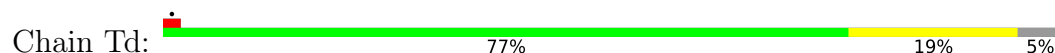
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



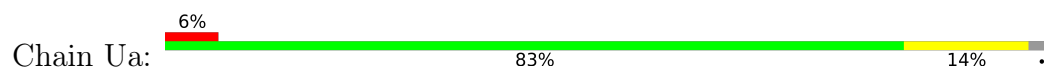
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Ub:  86% 10%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Uc:  73% 23%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Ud:  78% 17% 5%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Va:  83% 14%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Vb:  86% 10%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Vc:  72% 24%

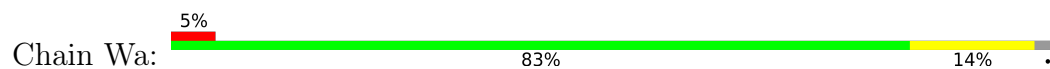


- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

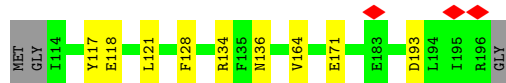
Chain Vd:  77% 19% 5%



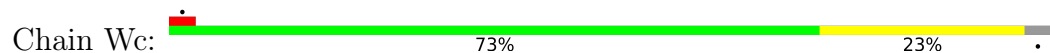
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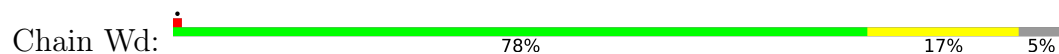
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



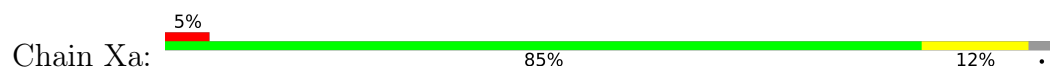
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- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



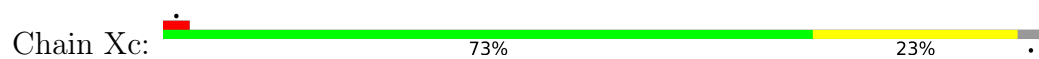
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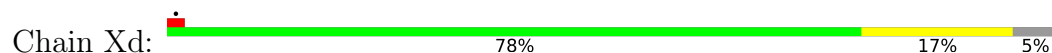
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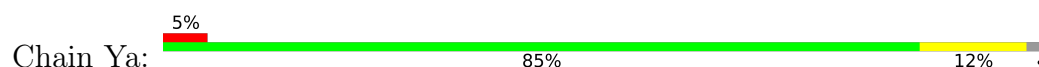
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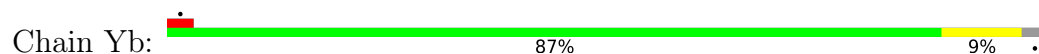
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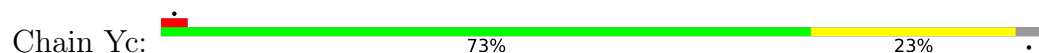
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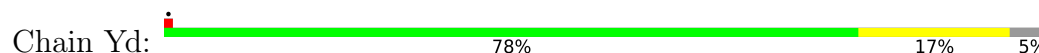
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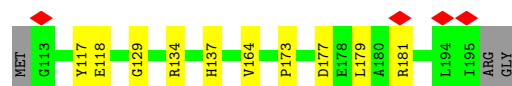
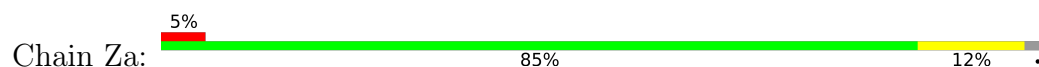
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- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Zb:  87% 9%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Zc:  73% 23%




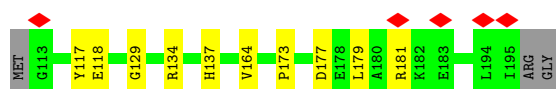
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain Zd:  78% 17% 5%




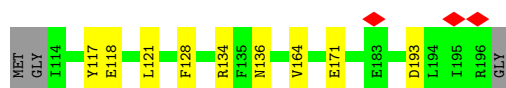
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain aa:  6% 85% 12%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain ab:  86% 10%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain ac:  73% 23%

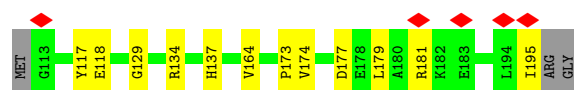
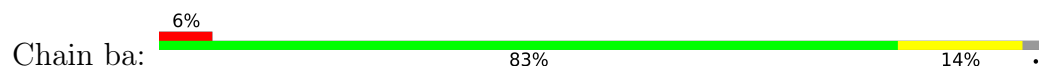


- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain ad:  76% 20% 5%



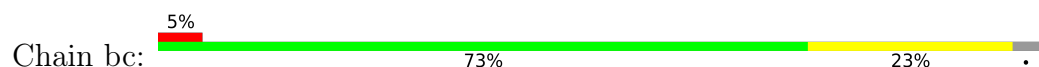
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



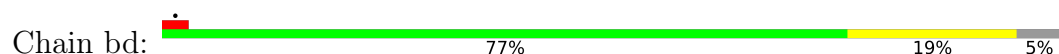
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



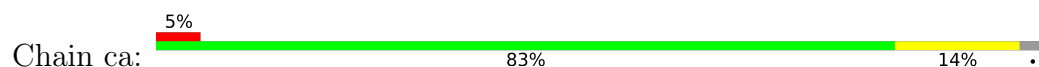
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



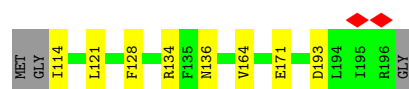
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

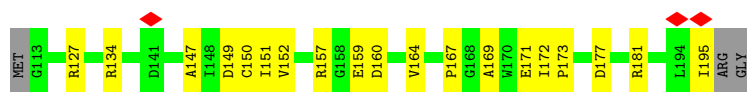


- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain cc:  74% 22%




• Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain cd:  76% 20% 5%



• Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain da:  5% 83% 14%



• Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain db:  86% 10%




• Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain dc:  72% 24%




• Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain dd:  78% 17% 5%

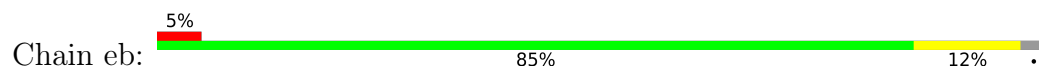


• Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

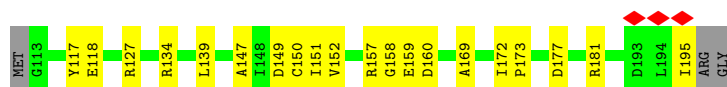
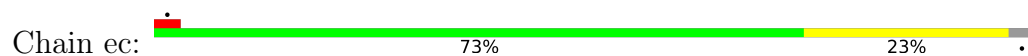
Chain ea:  5% 85% 12%



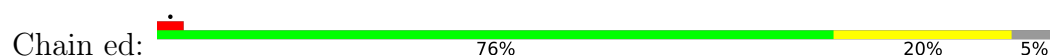
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



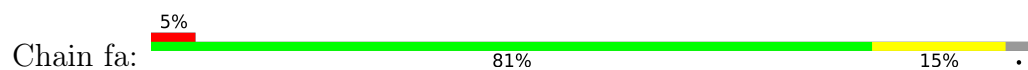
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



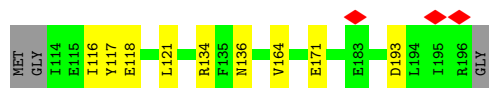
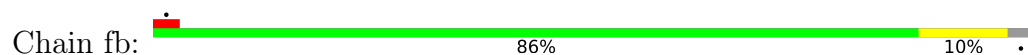
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



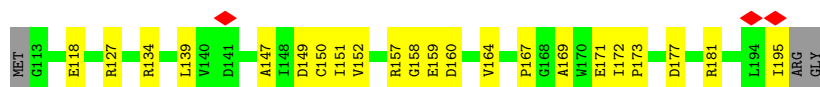
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



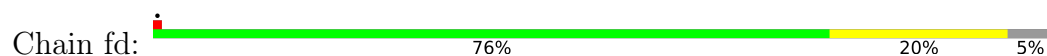
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

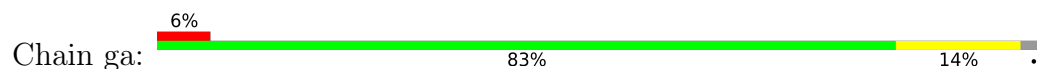


- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

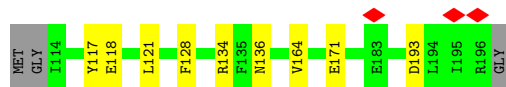




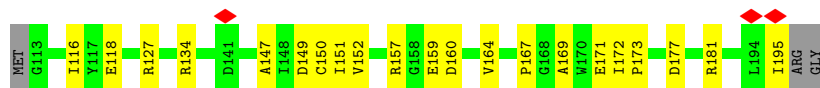
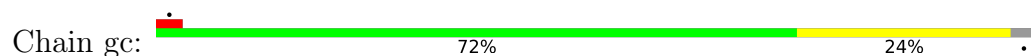
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



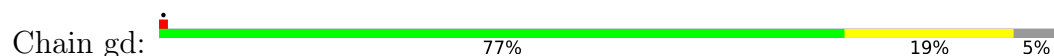
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



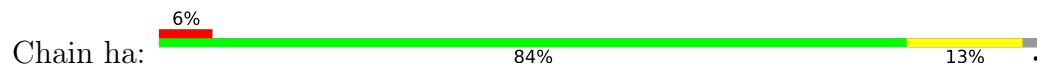
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



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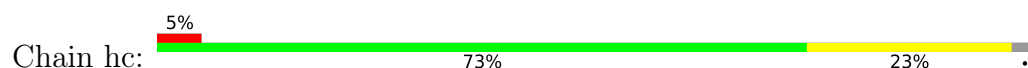
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



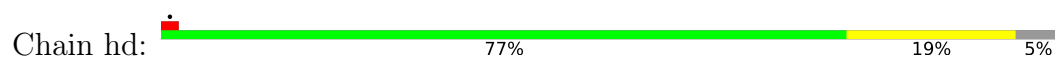
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



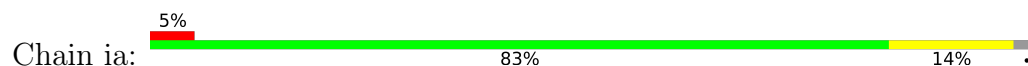
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



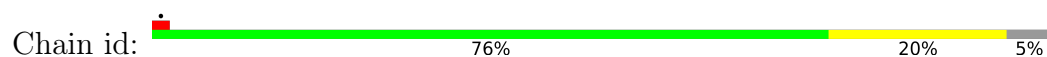
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



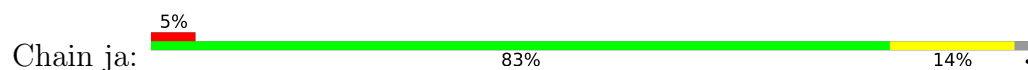
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



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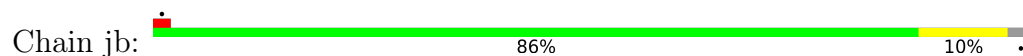


- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

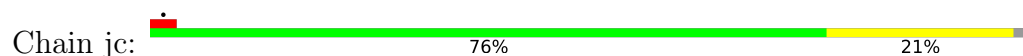




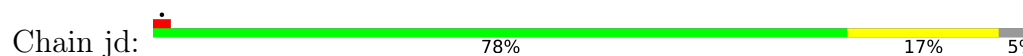
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



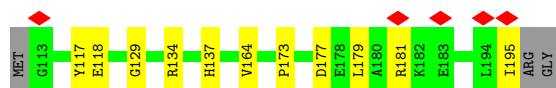
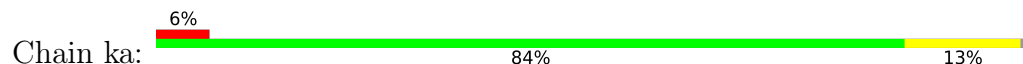
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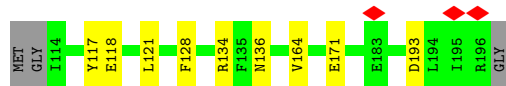
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



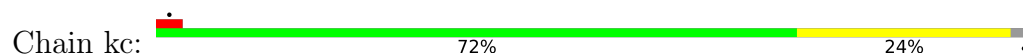
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain kd:  77% 19% 5%



- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain la:  6% 86% 10%



- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain lb:  87% 9%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain lc:  73% 23%




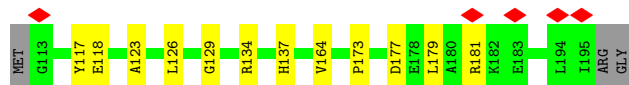
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain ld:  77% 19% 5%



- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain ma:  6% 83% 14%

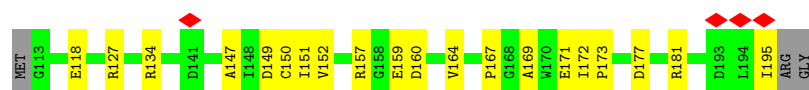
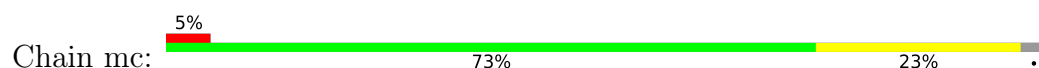


- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

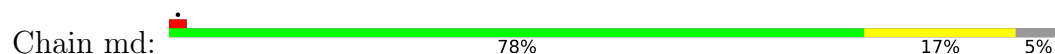
Chain mb:  87% 9%



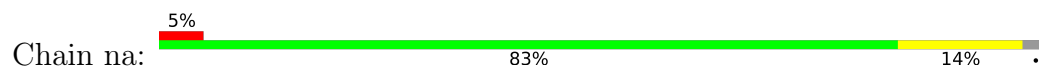
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



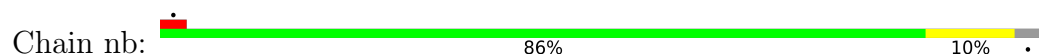
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



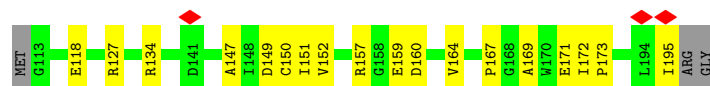
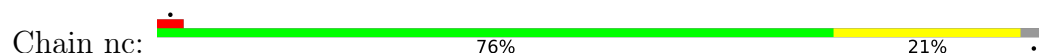
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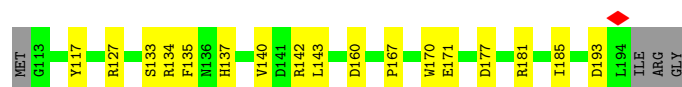
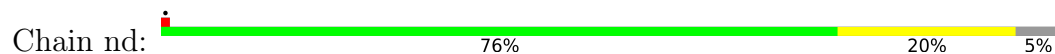
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



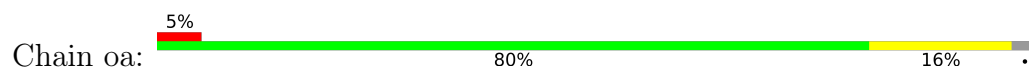
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

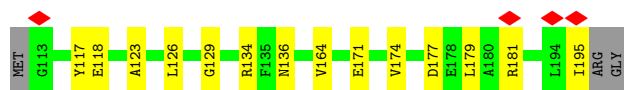


- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

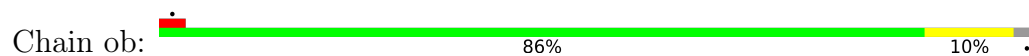


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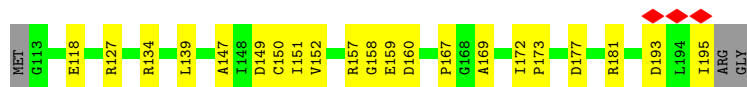




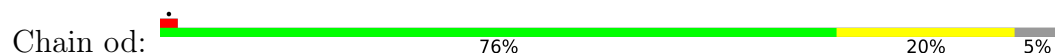
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



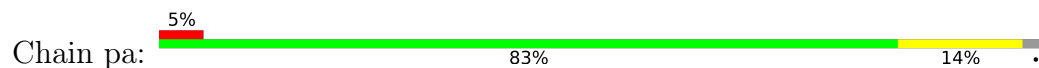
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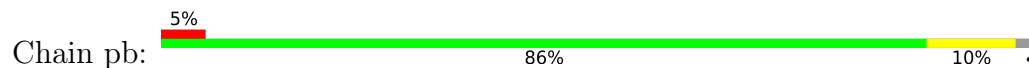
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



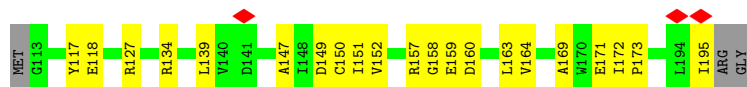
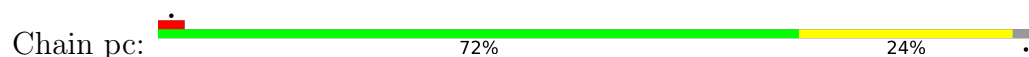
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain pd:  77% 19% 5%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain qa:  6% 80% 16%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain qb:  85% 12%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain qc:  5% 72% 24%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain qd:  78% 17% 5%



- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain ra:  5% 84% 13%

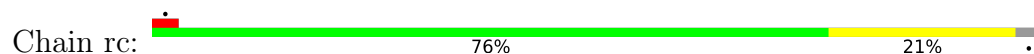


- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

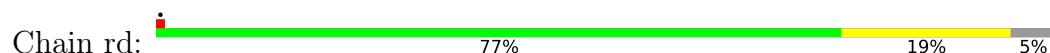
Chain rb:  87% 9%



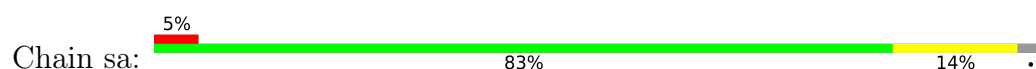
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



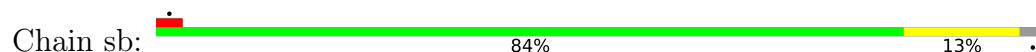
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



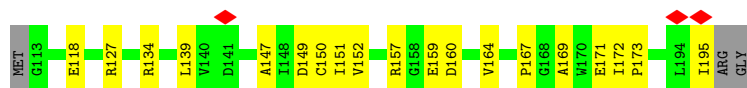
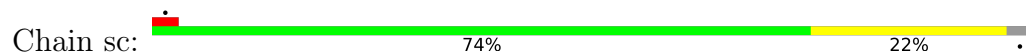
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



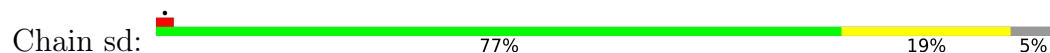
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



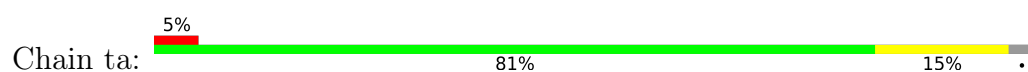
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



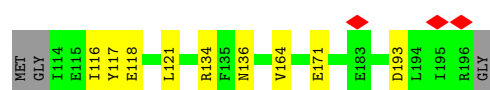
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



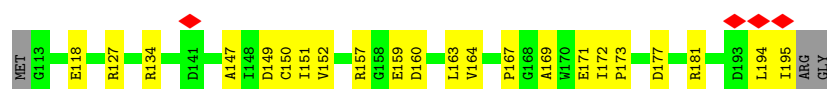
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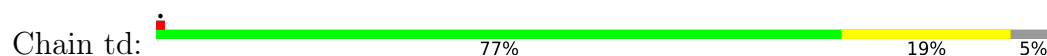
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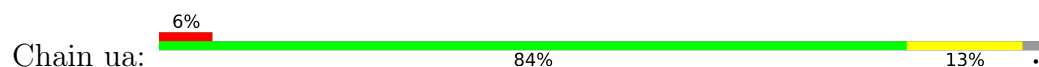
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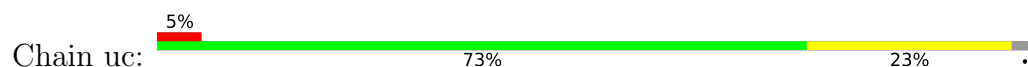
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- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain ud:  78% 17% 5%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain va:  83% 14% 5%




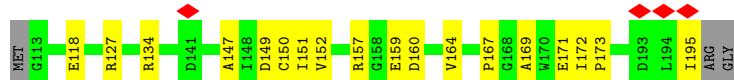
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain vb:  86% 10% 5%




- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain vc:  76% 21% 5%




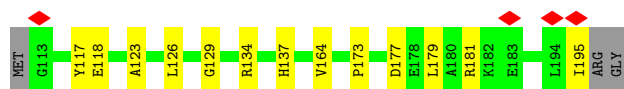
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain vd:  78% 17% 5%



- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

Chain wa:  81% 15% 5%

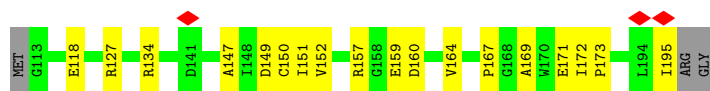
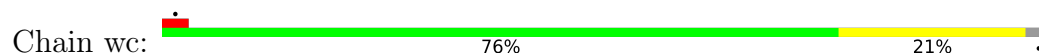


- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

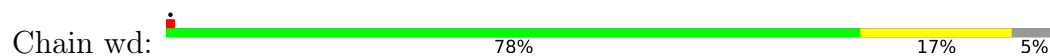
Chain wb:  86% 10% 5%



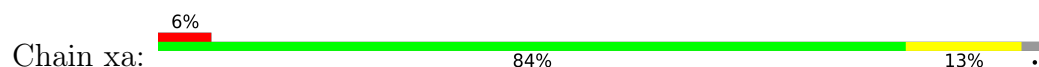
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



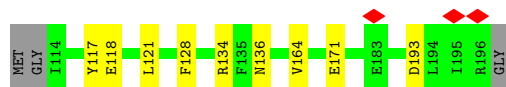
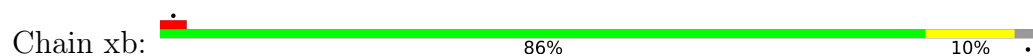
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



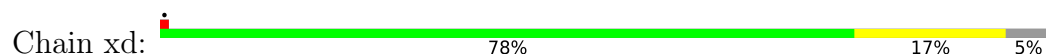
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



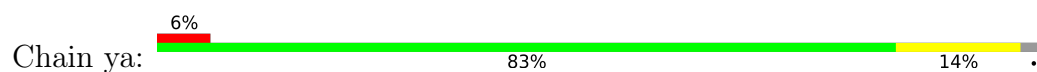
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



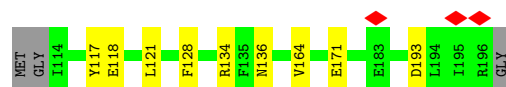
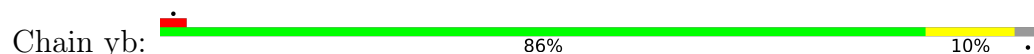
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



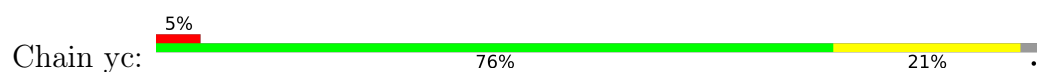
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



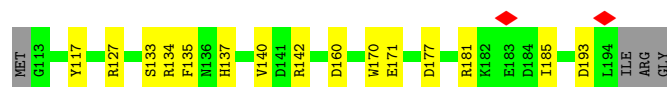
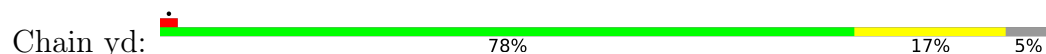
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



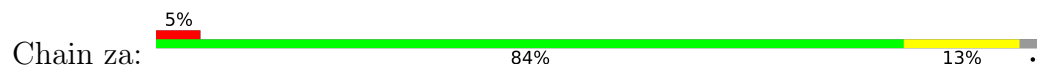
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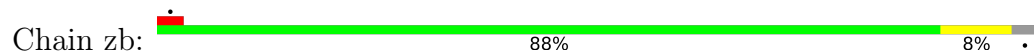
- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

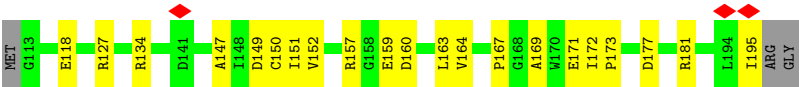


- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase

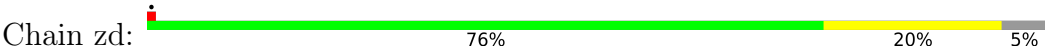


- Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase





• Molecule 2: 6,7-dimethyl-8-ribityllumazine synthase



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	20021	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	60	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2700	Depositor
Magnification	130000	Depositor
Image detector	FEI FALCON III (4k x 4k)	Depositor
Maximum map value	0.359	Depositor
Minimum map value	-0.183	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.011	Depositor
Recommended contour level	0.04	Depositor
Map size (\AA)	550.0, 550.0, 550.0	wwPDB
Map dimensions	500, 500, 500	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.1, 1.1, 1.1	Depositor

5 Model quality

5.1 Standard geometry

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	0A	0.16	0/482	0.40	0/649
1	0B	0.18	0/486	0.41	0/654
1	0C	0.16	0/486	0.38	0/654
1	0D	0.19	0/512	0.50	0/690
1	1A	0.16	0/482	0.40	0/649
1	1B	0.18	0/486	0.41	0/654
1	1C	0.16	0/486	0.38	0/654
1	1D	0.18	0/512	0.50	0/690
1	2A	0.16	0/482	0.40	0/649
1	2B	0.18	0/486	0.41	0/654
1	2C	0.16	0/486	0.38	0/654
1	2D	0.19	0/512	0.50	0/690
1	3A	0.16	0/482	0.40	0/649
1	3B	0.18	0/486	0.41	0/654
1	3C	0.16	0/486	0.38	0/654
1	3D	0.19	0/512	0.50	0/690
1	4A	0.16	0/482	0.40	0/649
1	4B	0.18	0/486	0.41	0/654
1	4C	0.16	0/486	0.38	0/654
1	4D	0.19	0/512	0.50	0/690
1	5A	0.16	0/482	0.39	0/649
1	5B	0.18	0/486	0.41	0/654
1	5C	0.16	0/486	0.38	0/654
1	5D	0.18	0/512	0.50	0/690
1	6A	0.16	0/482	0.40	0/649
1	6B	0.18	0/486	0.41	0/654
1	6C	0.16	0/486	0.38	0/654
1	6D	0.18	0/512	0.50	0/690
1	7A	0.16	0/482	0.40	0/649
1	7B	0.18	0/486	0.41	0/654
1	7C	0.16	0/486	0.38	0/654
1	7D	0.18	0/512	0.50	0/690
1	AA	0.16	0/482	0.40	0/649
1	AB	0.18	0/486	0.41	0/654

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	AC	0.16	0/486	0.38	0/654
1	AD	0.19	0/512	0.50	0/690
1	BA	0.16	0/482	0.40	0/649
1	BB	0.18	0/486	0.41	0/654
1	BC	0.16	0/486	0.38	0/654
1	BD	0.19	0/512	0.50	0/690
1	CA	0.16	0/482	0.40	0/649
1	CB	0.18	0/486	0.41	0/654
1	CC	0.16	0/486	0.38	0/654
1	CD	0.18	0/512	0.50	0/690
1	DA	0.16	0/482	0.40	0/649
1	DB	0.18	0/486	0.41	0/654
1	DC	0.16	0/486	0.38	0/654
1	DD	0.19	0/512	0.50	0/690
1	EA	0.16	0/482	0.40	0/649
1	EB	0.18	0/486	0.41	0/654
1	EC	0.16	0/486	0.38	0/654
1	ED	0.19	0/512	0.50	0/690
1	FA	0.16	0/482	0.40	0/649
1	FB	0.18	0/486	0.41	0/654
1	FC	0.16	0/486	0.38	0/654
1	FD	0.19	0/512	0.50	0/690
1	GA	0.16	0/482	0.40	0/649
1	GB	0.18	0/486	0.41	0/654
1	GC	0.16	0/486	0.38	0/654
1	GD	0.18	0/512	0.50	0/690
1	HA	0.16	0/482	0.40	0/649
1	HB	0.18	0/486	0.41	0/654
1	HC	0.16	0/486	0.38	0/654
1	HD	0.19	0/512	0.50	0/690
1	IA	0.16	0/482	0.40	0/649
1	IB	0.18	0/486	0.41	0/654
1	IC	0.16	0/486	0.38	0/654
1	ID	0.19	0/512	0.50	0/690
1	JA	0.16	0/482	0.40	0/649
1	JB	0.18	0/486	0.41	0/654
1	JC	0.16	0/486	0.38	0/654
1	JD	0.19	0/512	0.50	0/690
1	KA	0.16	0/482	0.40	0/649
1	KB	0.18	0/486	0.41	0/654
1	KC	0.16	0/486	0.38	0/654
1	KD	0.19	0/512	0.50	0/690
1	LA	0.16	0/482	0.39	0/649

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	LB	0.18	0/486	0.41	0/654
1	LC	0.16	0/486	0.38	0/654
1	LD	0.19	0/512	0.50	0/690
1	MA	0.16	0/482	0.40	0/649
1	MB	0.18	0/486	0.41	0/654
1	MC	0.16	0/486	0.38	0/654
1	MD	0.19	0/512	0.50	0/690
1	NA	0.16	0/482	0.40	0/649
1	NB	0.18	0/486	0.41	0/654
1	NC	0.16	0/486	0.38	0/654
1	ND	0.18	0/512	0.50	0/690
1	OA	0.16	0/482	0.40	0/649
1	OB	0.18	0/486	0.41	0/654
1	OC	0.16	0/486	0.38	0/654
1	OD	0.19	0/512	0.50	0/690
1	PA	0.16	0/482	0.39	0/649
1	PB	0.18	0/486	0.41	0/654
1	PC	0.16	0/486	0.38	0/654
1	PD	0.19	0/512	0.50	0/690
1	QA	0.16	0/482	0.40	0/649
1	QB	0.18	0/486	0.41	0/654
1	QC	0.16	0/486	0.38	0/654
1	QD	0.19	0/512	0.50	0/690
1	RA	0.16	0/482	0.39	0/649
1	RB	0.18	0/486	0.41	0/654
1	RC	0.16	0/486	0.38	0/654
1	RD	0.18	0/512	0.50	0/690
1	SA	0.16	0/482	0.40	0/649
1	SB	0.18	0/486	0.41	0/654
1	SC	0.16	0/486	0.38	0/654
1	SD	0.19	0/512	0.50	0/690
1	TA	0.16	0/482	0.40	0/649
1	TB	0.18	0/486	0.41	0/654
1	TC	0.16	0/486	0.38	0/654
1	TD	0.19	0/512	0.50	0/690
1	UA	0.16	0/482	0.39	0/649
1	UB	0.18	0/486	0.41	0/654
1	UC	0.16	0/486	0.38	0/654
1	UD	0.19	0/512	0.50	0/690
1	VA	0.16	0/482	0.40	0/649
1	VB	0.18	0/486	0.41	0/654
1	VC	0.16	0/486	0.38	0/654
1	VD	0.18	0/512	0.50	0/690

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	WA	0.16	0/482	0.40	0/649
1	WB	0.18	0/486	0.41	0/654
1	WC	0.16	0/486	0.38	0/654
1	WD	0.19	0/512	0.50	0/690
1	XA	0.16	0/482	0.40	0/649
1	XB	0.18	0/486	0.41	0/654
1	XC	0.16	0/486	0.38	0/654
1	XD	0.18	0/512	0.50	0/690
1	YA	0.16	0/482	0.40	0/649
1	YB	0.18	0/486	0.41	0/654
1	YC	0.16	0/486	0.38	0/654
1	YD	0.19	0/512	0.50	0/690
1	ZA	0.16	0/482	0.40	0/649
1	ZB	0.18	0/486	0.41	0/654
1	ZC	0.16	0/486	0.38	0/654
1	ZD	0.18	0/512	0.50	0/690
1	aA	0.16	0/482	0.40	0/649
1	aB	0.18	0/486	0.41	0/654
1	aC	0.16	0/486	0.38	0/654
1	aD	0.19	0/512	0.50	0/690
1	bA	0.16	0/482	0.40	0/649
1	bB	0.18	0/486	0.41	0/654
1	bC	0.16	0/486	0.38	0/654
1	bD	0.19	0/512	0.50	0/690
1	cA	0.16	0/482	0.40	0/649
1	cB	0.18	0/486	0.41	0/654
1	cC	0.16	0/486	0.38	0/654
1	cD	0.19	0/512	0.50	0/690
1	dA	0.16	0/482	0.40	0/649
1	dB	0.18	0/486	0.41	0/654
1	dC	0.16	0/486	0.38	0/654
1	dD	0.18	0/512	0.50	0/690
1	eA	0.16	0/482	0.40	0/649
1	eB	0.18	0/486	0.41	0/654
1	eC	0.16	0/486	0.38	0/654
1	eD	0.18	0/512	0.50	0/690
1	fA	0.16	0/482	0.40	0/649
1	fB	0.18	0/486	0.41	0/654
1	fC	0.16	0/486	0.38	0/654
1	fD	0.19	0/512	0.50	0/690
1	gA	0.16	0/482	0.40	0/649
1	gB	0.18	0/486	0.41	0/654
1	gC	0.16	0/486	0.38	0/654

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	gD	0.19	0/512	0.50	0/690
1	hA	0.16	0/482	0.40	0/649
1	hB	0.18	0/486	0.41	0/654
1	hC	0.16	0/486	0.38	0/654
1	hD	0.19	0/512	0.50	0/690
1	iA	0.16	0/482	0.40	0/649
1	iB	0.18	0/486	0.41	0/654
1	iC	0.16	0/486	0.38	0/654
1	iD	0.18	0/512	0.50	0/690
1	jA	0.16	0/482	0.40	0/649
1	jB	0.18	0/486	0.41	0/654
1	jC	0.16	0/486	0.38	0/654
1	jD	0.19	0/512	0.50	0/690
1	kA	0.16	0/482	0.39	0/649
1	kB	0.18	0/486	0.41	0/654
1	kC	0.16	0/486	0.38	0/654
1	kD	0.19	0/512	0.50	0/690
1	lA	0.16	0/482	0.40	0/649
1	lB	0.18	0/486	0.41	0/654
1	lC	0.16	0/486	0.38	0/654
1	lD	0.19	0/512	0.50	0/690
1	mA	0.16	0/482	0.40	0/649
1	mB	0.18	0/486	0.41	0/654
1	mC	0.16	0/486	0.38	0/654
1	mD	0.19	0/512	0.50	0/690
1	nA	0.16	0/482	0.39	0/649
1	nB	0.18	0/486	0.41	0/654
1	nC	0.16	0/486	0.38	0/654
1	nD	0.19	0/512	0.50	0/690
1	oA	0.16	0/482	0.39	0/649
1	oB	0.18	0/486	0.41	0/654
1	oC	0.16	0/486	0.38	0/654
1	oD	0.19	0/512	0.50	0/690
1	pA	0.16	0/482	0.40	0/649
1	pB	0.18	0/486	0.41	0/654
1	pC	0.16	0/486	0.38	0/654
1	pD	0.18	0/512	0.50	0/690
1	qA	0.16	0/482	0.40	0/649
1	qB	0.18	0/486	0.41	0/654
1	qC	0.16	0/486	0.38	0/654
1	qD	0.18	0/512	0.50	0/690
1	rA	0.16	0/482	0.40	0/649
1	rB	0.18	0/486	0.41	0/654

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	rC	0.16	0/486	0.38	0/654
1	rD	0.19	0/512	0.50	0/690
1	sA	0.16	0/482	0.40	0/649
1	sB	0.18	0/486	0.41	0/654
1	sC	0.16	0/486	0.38	0/654
1	sD	0.19	0/512	0.50	0/690
1	tA	0.16	0/482	0.40	0/649
1	tB	0.18	0/486	0.41	0/654
1	tC	0.16	0/486	0.38	0/654
1	tD	0.19	0/512	0.50	0/690
1	uA	0.16	0/482	0.40	0/649
1	uB	0.18	0/486	0.41	0/654
1	uC	0.16	0/486	0.38	0/654
1	uD	0.19	0/512	0.50	0/690
1	vA	0.16	0/482	0.39	0/649
1	vB	0.18	0/486	0.41	0/654
1	vC	0.16	0/486	0.38	0/654
1	vD	0.19	0/512	0.50	0/690
1	wA	0.16	0/482	0.40	0/649
1	wB	0.18	0/486	0.41	0/654
1	wC	0.16	0/486	0.38	0/654
1	wD	0.18	0/512	0.50	0/690
1	xA	0.16	0/482	0.40	0/649
1	xB	0.18	0/486	0.41	0/654
1	xC	0.16	0/486	0.38	0/654
1	xD	0.19	0/512	0.50	0/690
1	yA	0.16	0/482	0.40	0/649
1	yB	0.18	0/486	0.41	0/654
1	yC	0.16	0/486	0.38	0/654
1	yD	0.18	0/512	0.50	0/690
1	zA	0.16	0/482	0.40	0/649
1	zB	0.18	0/486	0.41	0/654
1	zC	0.16	0/486	0.38	0/654
1	zD	0.19	0/512	0.50	0/690
2	0a	0.15	0/643	0.37	0/870
2	0b	0.17	0/644	0.39	0/872
2	0c	0.15	0/643	0.37	0/870
2	0d	0.15	0/635	0.37	0/859
2	1a	0.15	0/643	0.37	0/870
2	1b	0.16	0/644	0.39	0/872
2	1c	0.15	0/643	0.37	0/870
2	1d	0.15	0/635	0.37	0/859
2	2a	0.15	0/643	0.37	0/870

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	2b	0.17	0/644	0.39	0/872
2	2c	0.15	0/643	0.37	0/870
2	2d	0.15	0/635	0.37	0/859
2	3a	0.15	0/643	0.37	0/870
2	3b	0.17	0/644	0.39	0/872
2	3c	0.15	0/643	0.37	0/870
2	3d	0.15	0/635	0.37	0/859
2	4a	0.15	0/643	0.37	0/870
2	4b	0.17	0/644	0.39	0/872
2	4c	0.15	0/643	0.37	0/870
2	4d	0.15	0/635	0.37	0/859
2	5a	0.15	0/643	0.37	0/870
2	5b	0.16	0/644	0.39	0/872
2	5c	0.15	0/643	0.38	0/870
2	5d	0.15	0/635	0.37	0/859
2	6a	0.15	0/643	0.37	0/870
2	6b	0.17	0/644	0.39	0/872
2	6c	0.15	0/643	0.37	0/870
2	6d	0.15	0/635	0.37	0/859
2	7a	0.15	0/643	0.37	0/870
2	7b	0.17	0/644	0.39	0/872
2	7c	0.15	0/643	0.38	0/870
2	7d	0.15	0/635	0.37	0/859
2	Aa	0.15	0/643	0.37	0/870
2	Ab	0.17	0/644	0.39	0/872
2	Ac	0.15	0/643	0.37	0/870
2	Ad	0.15	0/635	0.37	0/859
2	Ba	0.15	0/643	0.37	0/870
2	Bb	0.17	0/644	0.39	0/872
2	Bc	0.15	0/643	0.37	0/870
2	Bd	0.15	0/635	0.37	0/859
2	Ca	0.15	0/643	0.37	0/870
2	Cb	0.17	0/644	0.39	0/872
2	Cc	0.15	0/643	0.37	0/870
2	Cd	0.15	0/635	0.37	0/859
2	Da	0.15	0/643	0.37	0/870
2	Db	0.17	0/644	0.39	0/872
2	Dc	0.15	0/643	0.37	0/870
2	Dd	0.15	0/635	0.37	0/859
2	Ea	0.15	0/643	0.37	0/870
2	Eb	0.17	0/644	0.39	0/872
2	Ec	0.15	0/643	0.37	0/870
2	Ed	0.15	0/635	0.37	0/859

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	Fa	0.15	0/643	0.37	0/870
2	Fb	0.16	0/644	0.39	0/872
2	Fc	0.15	0/643	0.37	0/870
2	Fd	0.15	0/635	0.37	0/859
2	Ga	0.15	0/643	0.37	0/870
2	Gb	0.16	0/644	0.39	0/872
2	Gc	0.15	0/643	0.37	0/870
2	Gd	0.15	0/635	0.37	0/859
2	Ha	0.15	0/643	0.37	0/870
2	Hb	0.17	0/644	0.39	0/872
2	Hc	0.15	0/643	0.37	0/870
2	Hd	0.15	0/635	0.37	0/859
2	Ia	0.15	0/643	0.37	0/870
2	Ib	0.17	0/644	0.39	0/872
2	Ic	0.15	0/643	0.37	0/870
2	Id	0.15	0/635	0.37	0/859
2	Ja	0.15	0/643	0.37	0/870
2	Jb	0.17	0/644	0.39	0/872
2	Jc	0.15	0/643	0.37	0/870
2	Jd	0.15	0/635	0.37	0/859
2	Ka	0.15	0/643	0.37	0/870
2	Kb	0.17	0/644	0.39	0/872
2	Kc	0.15	0/643	0.37	0/870
2	Kd	0.15	0/635	0.37	0/859
2	La	0.15	0/643	0.37	0/870
2	Lb	0.17	0/644	0.39	0/872
2	Lc	0.15	0/643	0.37	0/870
2	Ld	0.15	0/635	0.37	0/859
2	Ma	0.15	0/643	0.37	0/870
2	Mb	0.16	0/644	0.39	0/872
2	Mc	0.15	0/643	0.37	0/870
2	Md	0.15	0/635	0.37	0/859
2	Na	0.15	0/643	0.37	0/870
2	Nb	0.17	0/644	0.39	0/872
2	Nc	0.15	0/643	0.37	0/870
2	Nd	0.15	0/635	0.37	0/859
2	Oa	0.15	0/643	0.37	0/870
2	Ob	0.17	0/644	0.39	0/872
2	Oc	0.15	0/643	0.37	0/870
2	Od	0.15	0/635	0.37	0/859
2	Pa	0.15	0/643	0.37	0/870
2	Pb	0.17	0/644	0.39	0/872
2	Pc	0.15	0/643	0.37	0/870

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	Pd	0.15	0/635	0.37	0/859
2	Qa	0.15	0/643	0.37	0/870
2	Qb	0.17	0/644	0.39	0/872
2	Qc	0.15	0/643	0.37	0/870
2	Qd	0.15	0/635	0.37	0/859
2	Ra	0.15	0/643	0.37	0/870
2	Rb	0.17	0/644	0.39	0/872
2	Rc	0.15	0/643	0.37	0/870
2	Rd	0.15	0/635	0.37	0/859
2	Sa	0.15	0/643	0.37	0/870
2	Sb	0.17	0/644	0.39	0/872
2	Sc	0.15	0/643	0.37	0/870
2	Sd	0.15	0/635	0.37	0/859
2	Ta	0.15	0/643	0.37	0/870
2	Tb	0.17	0/644	0.39	0/872
2	Tc	0.15	0/643	0.37	0/870
2	Td	0.15	0/635	0.37	0/859
2	Ua	0.15	0/643	0.37	0/870
2	Ub	0.17	0/644	0.39	0/872
2	Uc	0.15	0/643	0.37	0/870
2	Ud	0.15	0/635	0.37	0/859
2	Va	0.15	0/643	0.37	0/870
2	Vb	0.17	0/644	0.39	0/872
2	Vc	0.15	0/643	0.37	0/870
2	Vd	0.15	0/635	0.37	0/859
2	Wa	0.15	0/643	0.37	0/870
2	Wb	0.17	0/644	0.39	0/872
2	Wc	0.15	0/643	0.37	0/870
2	Wd	0.15	0/635	0.37	0/859
2	Xa	0.15	0/643	0.37	0/870
2	Xb	0.16	0/644	0.39	0/872
2	Xc	0.15	0/643	0.37	0/870
2	Xd	0.15	0/635	0.37	0/859
2	Ya	0.15	0/643	0.37	0/870
2	Yb	0.16	0/644	0.39	0/872
2	Yc	0.15	0/643	0.37	0/870
2	Yd	0.15	0/635	0.37	0/859
2	Za	0.15	0/643	0.37	0/870
2	Zb	0.16	0/644	0.39	0/872
2	Zc	0.15	0/643	0.37	0/870
2	Zd	0.15	0/635	0.37	0/859
2	aa	0.15	0/643	0.37	0/870
2	ab	0.17	0/644	0.39	0/872

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	ac	0.15	0/643	0.37	0/870
2	ad	0.15	0/635	0.37	0/859
2	ba	0.15	0/643	0.37	0/870
2	bb	0.17	0/644	0.39	0/872
2	bc	0.15	0/643	0.38	0/870
2	bd	0.15	0/635	0.37	0/859
2	ca	0.15	0/643	0.37	0/870
2	cb	0.16	0/644	0.39	0/872
2	cc	0.15	0/643	0.37	0/870
2	cd	0.15	0/635	0.37	0/859
2	da	0.15	0/643	0.37	0/870
2	db	0.16	0/644	0.39	0/872
2	dc	0.15	0/643	0.37	0/870
2	dd	0.15	0/635	0.37	0/859
2	ea	0.15	0/643	0.37	0/870
2	eb	0.16	0/644	0.39	0/872
2	ec	0.15	0/643	0.37	0/870
2	ed	0.15	0/635	0.37	0/859
2	fa	0.15	0/643	0.37	0/870
2	fb	0.17	0/644	0.39	0/872
2	fc	0.15	0/643	0.37	0/870
2	fd	0.15	0/635	0.37	0/859
2	ga	0.15	0/643	0.37	0/870
2	gb	0.16	0/644	0.39	0/872
2	gc	0.15	0/643	0.37	0/870
2	gd	0.15	0/635	0.37	0/859
2	ha	0.15	0/643	0.37	0/870
2	hb	0.17	0/644	0.39	0/872
2	hc	0.15	0/643	0.38	0/870
2	hd	0.15	0/635	0.37	0/859
2	ia	0.15	0/643	0.37	0/870
2	ib	0.17	0/644	0.39	0/872
2	ic	0.15	0/643	0.37	0/870
2	id	0.15	0/635	0.37	0/859
2	ja	0.15	0/643	0.37	0/870
2	jb	0.17	0/644	0.39	0/872
2	jc	0.15	0/643	0.37	0/870
2	jd	0.15	0/635	0.37	0/859
2	ka	0.15	0/643	0.37	0/870
2	kb	0.17	0/644	0.39	0/872
2	kc	0.15	0/643	0.37	0/870
2	kd	0.15	0/635	0.37	0/859
2	la	0.15	0/643	0.37	0/870

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	lb	0.17	0/644	0.39	0/872
2	lc	0.15	0/643	0.37	0/870
2	ld	0.15	0/635	0.37	0/859
2	ma	0.15	0/643	0.37	0/870
2	mb	0.17	0/644	0.39	0/872
2	mc	0.15	0/643	0.37	0/870
2	md	0.15	0/635	0.37	0/859
2	na	0.15	0/643	0.37	0/870
2	nb	0.17	0/644	0.39	0/872
2	nc	0.15	0/643	0.37	0/870
2	nd	0.15	0/635	0.37	0/859
2	oa	0.15	0/643	0.37	0/870
2	ob	0.17	0/644	0.39	0/872
2	oc	0.15	0/643	0.37	0/870
2	od	0.15	0/635	0.37	0/859
2	pa	0.15	0/643	0.37	0/870
2	pb	0.17	0/644	0.39	0/872
2	pc	0.15	0/643	0.38	0/870
2	pd	0.15	0/635	0.37	0/859
2	qa	0.15	0/643	0.37	0/870
2	qb	0.17	0/644	0.39	0/872
2	qc	0.15	0/643	0.37	0/870
2	qd	0.15	0/635	0.37	0/859
2	ra	0.15	0/643	0.37	0/870
2	rb	0.17	0/644	0.39	0/872
2	rc	0.15	0/643	0.38	0/870
2	rd	0.15	0/635	0.37	0/859
2	sa	0.15	0/643	0.37	0/870
2	sb	0.17	0/644	0.39	0/872
2	sc	0.15	0/643	0.37	0/870
2	sd	0.15	0/635	0.37	0/859
2	ta	0.15	0/643	0.37	0/870
2	tb	0.17	0/644	0.39	0/872
2	tc	0.15	0/643	0.37	0/870
2	td	0.15	0/635	0.37	0/859
2	ua	0.15	0/643	0.37	0/870
2	ub	0.17	0/644	0.39	0/872
2	uc	0.15	0/643	0.37	0/870
2	ud	0.15	0/635	0.37	0/859
2	va	0.15	0/643	0.37	0/870
2	vb	0.17	0/644	0.39	0/872
2	vc	0.15	0/643	0.37	0/870
2	vd	0.15	0/635	0.37	0/859

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	wa	0.15	0/643	0.37	0/870
2	wb	0.17	0/644	0.39	0/872
2	wc	0.15	0/643	0.37	0/870
2	wd	0.15	0/635	0.37	0/859
2	xa	0.15	0/643	0.37	0/870
2	xb	0.17	0/644	0.39	0/872
2	xc	0.15	0/643	0.37	0/870
2	xd	0.15	0/635	0.37	0/859
2	ya	0.15	0/643	0.37	0/870
2	yb	0.17	0/644	0.39	0/872
2	yc	0.15	0/643	0.37	0/870
2	yd	0.15	0/635	0.37	0/859
2	za	0.15	0/643	0.37	0/870
2	zb	0.17	0/644	0.39	0/872
2	zc	0.15	0/643	0.37	0/870
2	zd	0.15	0/635	0.37	0/859
All	All	0.16	0/271860	0.40	0/367080

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0A	477	0	491	7	0
1	0B	481	0	494	15	0
1	0C	481	0	494	9	0
1	0D	506	0	509	10	0
1	1A	477	0	491	7	0
1	1B	481	0	494	14	0
1	1C	481	0	494	8	0
1	1D	506	0	509	12	0
1	2A	477	0	491	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	2B	481	0	494	13	0
1	2C	481	0	494	8	0
1	2D	506	0	509	11	0
1	3A	477	0	491	12	0
1	3B	481	0	494	13	0
1	3C	481	0	494	9	0
1	3D	506	0	509	10	0
1	4A	477	0	491	7	0
1	4B	481	0	494	13	0
1	4C	481	0	494	9	0
1	4D	506	0	509	19	0
1	5A	477	0	491	7	0
1	5B	481	0	494	12	0
1	5C	481	0	494	8	0
1	5D	506	0	509	11	0
1	6A	477	0	491	8	0
1	6B	481	0	494	14	0
1	6C	481	0	494	9	0
1	6D	506	0	509	11	0
1	7A	477	0	491	7	0
1	7B	481	0	494	16	0
1	7C	481	0	494	8	0
1	7D	506	0	509	15	0
1	AA	477	0	491	7	0
1	AB	481	0	494	12	0
1	AC	481	0	494	13	0
1	AD	506	0	509	10	0
1	BA	477	0	491	7	0
1	BB	481	0	494	12	0
1	BC	481	0	494	9	0
1	BD	506	0	509	12	0
1	CA	477	0	491	8	0
1	CB	481	0	494	15	0
1	CC	481	0	494	8	0
1	CD	506	0	509	11	0
1	DA	477	0	491	8	0
1	DB	481	0	494	13	0
1	DC	481	0	494	9	0
1	DD	506	0	509	12	0
1	EA	477	0	491	10	0
1	EB	481	0	494	14	0
1	EC	481	0	494	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	ED	506	0	509	13	0
1	FA	477	0	491	6	0
1	FB	481	0	494	15	0
1	FC	481	0	494	10	0
1	FD	506	0	509	13	0
1	GA	477	0	491	7	0
1	GB	481	0	494	12	0
1	GC	481	0	494	9	0
1	GD	506	0	509	11	0
1	HA	477	0	491	8	0
1	HB	481	0	494	14	0
1	HC	481	0	494	9	0
1	HD	506	0	509	10	0
1	IA	477	0	491	7	0
1	IB	481	0	494	12	0
1	IC	481	0	494	8	0
1	ID	506	0	509	13	0
1	JA	477	0	491	7	0
1	JB	481	0	494	14	0
1	JC	481	0	494	8	0
1	JD	506	0	509	10	0
1	KA	477	0	491	7	0
1	KB	481	0	494	13	0
1	KC	481	0	494	11	0
1	KD	506	0	509	10	0
1	LA	477	0	491	7	0
1	LB	481	0	494	13	0
1	LC	481	0	494	8	0
1	LD	506	0	509	11	0
1	MA	477	0	491	9	0
1	MB	481	0	494	14	0
1	MC	481	0	494	8	0
1	MD	506	0	509	11	0
1	NA	477	0	491	7	0
1	NB	481	0	494	14	0
1	NC	481	0	494	9	0
1	ND	506	0	509	12	0
1	OA	477	0	491	7	0
1	OB	481	0	494	13	0
1	OC	481	0	494	8	0
1	OD	506	0	509	11	0
1	PA	477	0	491	8	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	PB	481	0	494	13	0
1	PC	481	0	494	8	0
1	PD	506	0	509	12	0
1	QA	477	0	491	7	0
1	QB	481	0	494	15	0
1	QC	481	0	494	9	0
1	QD	506	0	509	10	0
1	RA	477	0	491	7	0
1	RB	481	0	494	14	0
1	RC	481	0	494	9	0
1	RD	506	0	509	10	0
1	SA	477	0	491	7	0
1	SB	481	0	494	14	0
1	SC	481	0	494	8	0
1	SD	506	0	509	10	0
1	TA	477	0	491	11	0
1	TB	481	0	494	12	0
1	TC	481	0	494	9	0
1	TD	506	0	509	12	0
1	UA	477	0	491	8	0
1	UB	481	0	494	13	0
1	UC	481	0	494	8	0
1	UD	506	0	509	11	0
1	VA	477	0	491	8	0
1	VB	481	0	494	13	0
1	VC	481	0	494	8	0
1	VD	506	0	509	11	0
1	WA	477	0	491	7	0
1	WB	481	0	494	15	0
1	WC	481	0	494	8	0
1	WD	506	0	509	11	0
1	XA	477	0	491	7	0
1	XB	481	0	494	13	0
1	XC	481	0	494	9	0
1	XD	506	0	509	11	0
1	YA	477	0	491	7	0
1	YB	481	0	494	12	0
1	YC	481	0	494	9	0
1	YD	506	0	509	10	0
1	ZA	477	0	491	7	0
1	ZB	481	0	494	13	0
1	ZC	481	0	494	8	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	ZD	506	0	509	11	0
1	aA	477	0	491	8	0
1	aB	481	0	494	13	0
1	aC	481	0	494	9	0
1	aD	506	0	509	10	0
1	bA	477	0	491	8	0
1	bB	481	0	494	14	0
1	bC	481	0	494	9	0
1	bD	506	0	509	9	0
1	cA	477	0	491	7	0
1	cB	481	0	494	13	0
1	cC	481	0	494	14	0
1	cD	506	0	509	12	0
1	dA	477	0	491	7	0
1	dB	481	0	494	15	0
1	dC	481	0	494	8	0
1	dD	506	0	509	11	0
1	eA	477	0	491	7	0
1	eB	481	0	494	15	0
1	eC	481	0	494	12	0
1	eD	506	0	509	14	0
1	fA	477	0	491	7	0
1	fB	481	0	494	13	0
1	fC	481	0	494	8	0
1	fD	506	0	509	9	0
1	gA	477	0	491	9	0
1	gB	481	0	494	13	0
1	gC	481	0	494	12	0
1	gD	506	0	509	11	0
1	hA	477	0	491	7	0
1	hB	481	0	494	13	0
1	hC	481	0	494	8	0
1	hD	506	0	509	10	0
1	iA	477	0	491	9	0
1	iB	481	0	494	14	0
1	iC	481	0	494	9	0
1	iD	506	0	509	10	0
1	jA	477	0	491	8	0
1	jB	481	0	494	14	0
1	jC	481	0	494	8	0
1	jD	506	0	509	11	0
1	kA	477	0	491	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	kB	481	0	494	13	0
1	kC	481	0	494	8	0
1	kD	506	0	509	11	0
1	lA	477	0	491	8	0
1	lB	481	0	494	12	0
1	lC	481	0	494	11	0
1	lD	506	0	509	11	0
1	mA	477	0	491	7	0
1	mB	481	0	494	14	0
1	mC	481	0	494	8	0
1	mD	506	0	509	12	0
1	nA	477	0	491	10	0
1	nB	481	0	494	14	0
1	nC	481	0	494	11	0
1	nD	506	0	509	9	0
1	oA	477	0	491	6	0
1	oB	481	0	494	13	0
1	oC	481	0	494	11	0
1	oD	506	0	509	15	0
1	pA	477	0	491	10	0
1	pB	481	0	494	12	0
1	pC	481	0	494	9	0
1	pD	506	0	509	11	0
1	qA	477	0	491	7	0
1	qB	481	0	494	13	0
1	qC	481	0	494	10	0
1	qD	506	0	509	12	0
1	rA	477	0	491	7	0
1	rB	481	0	494	13	0
1	rC	481	0	494	10	0
1	rD	506	0	509	12	0
1	sA	477	0	491	10	0
1	sB	481	0	494	11	0
1	sC	481	0	494	9	0
1	sD	506	0	509	10	0
1	tA	477	0	491	6	0
1	tB	481	0	494	12	0
1	tC	481	0	494	9	0
1	tD	506	0	509	13	0
1	uA	477	0	491	8	0
1	uB	481	0	494	15	0
1	uC	481	0	494	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	uD	506	0	509	11	0
1	vA	477	0	491	8	0
1	vB	481	0	494	13	0
1	vC	481	0	494	9	0
1	vD	506	0	509	12	0
1	wA	477	0	491	7	0
1	wB	481	0	494	13	0
1	wC	481	0	494	8	0
1	wD	506	0	509	10	0
1	xA	477	0	491	7	0
1	xB	481	0	494	14	0
1	xC	481	0	494	8	0
1	xD	506	0	509	9	0
1	yA	477	0	491	7	0
1	yB	481	0	494	13	0
1	yC	481	0	494	8	0
1	yD	506	0	509	11	0
1	zA	477	0	491	9	0
1	zB	481	0	494	12	0
1	zC	481	0	494	11	0
1	zD	506	0	509	12	0
2	0a	634	0	637	13	0
2	0b	635	0	636	13	0
2	0c	634	0	637	16	0
2	0d	626	0	626	12	0
2	1a	634	0	637	9	0
2	1b	635	0	636	9	0
2	1c	634	0	637	15	0
2	1d	626	0	626	11	0
2	2a	634	0	637	9	0
2	2b	635	0	636	10	0
2	2c	634	0	637	15	0
2	2d	626	0	626	11	0
2	3a	634	0	637	11	0
2	3b	635	0	636	9	0
2	3c	634	0	637	15	0
2	3d	626	0	626	12	0
2	4a	634	0	637	14	0
2	4b	635	0	636	13	0
2	4c	634	0	637	15	0
2	4d	626	0	626	12	0
2	5a	634	0	637	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	5b	635	0	636	9	0
2	5c	634	0	637	16	0
2	5d	626	0	626	11	0
2	6a	634	0	637	10	0
2	6b	635	0	636	10	0
2	6c	634	0	637	16	0
2	6d	626	0	626	11	0
2	7a	634	0	637	14	0
2	7b	635	0	636	12	0
2	7c	634	0	637	16	0
2	7d	626	0	626	13	0
2	Aa	634	0	637	10	0
2	Ab	635	0	636	9	0
2	Ac	634	0	637	14	0
2	Ad	626	0	626	14	0
2	Ba	634	0	637	10	0
2	Bb	635	0	636	10	0
2	Bc	634	0	637	14	0
2	Bd	626	0	626	12	0
2	Ca	634	0	637	9	0
2	Cb	635	0	636	10	0
2	Cc	634	0	637	16	0
2	Cd	626	0	626	11	0
2	Da	634	0	637	9	0
2	Db	635	0	636	10	0
2	Dc	634	0	637	14	0
2	Dd	626	0	626	12	0
2	Ea	634	0	637	13	0
2	Eb	635	0	636	11	0
2	Ec	634	0	637	14	0
2	Ed	626	0	626	11	0
2	Fa	634	0	637	16	0
2	Fb	635	0	636	10	0
2	Fc	634	0	637	14	0
2	Fd	626	0	626	11	0
2	Ga	634	0	637	8	0
2	Gb	635	0	636	9	0
2	Gc	634	0	637	15	0
2	Gd	626	0	626	11	0
2	Ha	634	0	637	9	0
2	Hb	635	0	636	9	0
2	Hc	634	0	637	14	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	Hd	626	0	626	11	0
2	Ia	634	0	637	9	0
2	Ib	635	0	636	9	0
2	Ic	634	0	637	15	0
2	Id	626	0	626	12	0
2	Ja	634	0	637	10	0
2	Jb	635	0	636	12	0
2	Jc	634	0	637	15	0
2	Jd	626	0	626	13	0
2	Ka	634	0	637	9	0
2	Kb	635	0	636	9	0
2	Kc	634	0	637	14	0
2	Kd	626	0	626	11	0
2	La	634	0	637	9	0
2	Lb	635	0	636	9	0
2	Lc	634	0	637	16	0
2	Ld	626	0	626	11	0
2	Ma	634	0	637	11	0
2	Mb	635	0	636	10	0
2	Mc	634	0	637	14	0
2	Md	626	0	626	12	0
2	Na	634	0	637	13	0
2	Nb	635	0	636	11	0
2	Nc	634	0	637	15	0
2	Nd	626	0	626	11	0
2	Oa	634	0	637	9	0
2	Ob	635	0	636	10	0
2	Oc	634	0	637	15	0
2	Od	626	0	626	11	0
2	Pa	634	0	637	16	0
2	Pb	635	0	636	10	0
2	Pc	634	0	637	19	0
2	Pd	626	0	626	11	0
2	Qa	634	0	637	11	0
2	Qb	635	0	636	11	0
2	Qc	634	0	637	16	0
2	Qd	626	0	626	12	0
2	Ra	634	0	637	10	0
2	Rb	635	0	636	9	0
2	Rc	634	0	637	18	0
2	Rd	626	0	626	11	0
2	Sa	634	0	637	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	Sb	635	0	636	10	0
2	Sc	634	0	637	15	0
2	Sd	626	0	626	11	0
2	Ta	634	0	637	10	0
2	Tb	635	0	636	10	0
2	Tc	634	0	637	15	0
2	Td	626	0	626	11	0
2	Ua	634	0	637	10	0
2	Ub	635	0	636	10	0
2	Uc	634	0	637	15	0
2	Ud	626	0	626	11	0
2	Va	634	0	637	9	0
2	Vb	635	0	636	10	0
2	Vc	634	0	637	18	0
2	Vd	626	0	626	12	0
2	Wa	634	0	637	9	0
2	Wb	635	0	636	10	0
2	Wc	634	0	637	15	0
2	Wd	626	0	626	11	0
2	Xa	634	0	637	8	0
2	Xb	635	0	636	9	0
2	Xc	634	0	637	15	0
2	Xd	626	0	626	11	0
2	Ya	634	0	637	8	0
2	Yb	635	0	636	9	0
2	Yc	634	0	637	15	0
2	Yd	626	0	626	11	0
2	Za	634	0	637	8	0
2	Zb	635	0	636	9	0
2	Zc	634	0	637	15	0
2	Zd	626	0	626	11	0
2	aa	634	0	637	8	0
2	ab	635	0	636	10	0
2	ac	634	0	637	15	0
2	ad	626	0	626	12	0
2	ba	634	0	637	11	0
2	bb	635	0	636	11	0
2	bc	634	0	637	16	0
2	bd	626	0	626	12	0
2	ca	634	0	637	9	0
2	cb	635	0	636	9	0
2	cc	634	0	637	14	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	cd	626	0	626	13	0
2	da	634	0	637	9	0
2	db	635	0	636	10	0
2	dc	634	0	637	19	0
2	dd	626	0	626	11	0
2	ea	634	0	637	7	0
2	eb	635	0	636	14	0
2	ec	634	0	637	17	0
2	ed	626	0	626	18	0
2	fa	634	0	637	13	0
2	fb	635	0	636	13	0
2	fc	634	0	637	17	0
2	fd	626	0	626	14	0
2	ga	634	0	637	11	0
2	gb	635	0	636	10	0
2	gc	634	0	637	19	0
2	gd	626	0	626	12	0
2	ha	634	0	637	9	0
2	hb	635	0	636	9	0
2	hc	634	0	637	16	0
2	hd	626	0	626	12	0
2	ia	634	0	637	11	0
2	ib	635	0	636	10	0
2	ic	634	0	637	15	0
2	id	626	0	626	12	0
2	ja	634	0	637	10	0
2	jb	635	0	636	10	0
2	jc	634	0	637	14	0
2	jd	626	0	626	10	0
2	ka	634	0	637	9	0
2	kb	635	0	636	10	0
2	kc	634	0	637	18	0
2	kd	626	0	626	13	0
2	la	634	0	637	7	0
2	lb	635	0	636	9	0
2	lc	634	0	637	15	0
2	ld	626	0	626	12	0
2	ma	634	0	637	9	0
2	mb	635	0	636	10	0
2	mc	634	0	637	15	0
2	md	626	0	626	11	0
2	na	634	0	637	11	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	nb	635	0	636	10	0
2	nc	634	0	637	14	0
2	nd	626	0	626	12	0
2	oa	634	0	637	13	0
2	ob	635	0	636	11	0
2	oc	634	0	637	15	0
2	od	626	0	626	13	0
2	pa	634	0	637	11	0
2	pb	635	0	636	12	0
2	pc	634	0	637	17	0
2	pd	626	0	626	12	0
2	qa	634	0	637	11	0
2	qb	635	0	636	14	0
2	qc	634	0	637	17	0
2	qd	626	0	626	11	0
2	ra	634	0	637	10	0
2	rb	635	0	636	9	0
2	rc	634	0	637	18	0
2	rd	626	0	626	12	0
2	sa	634	0	637	12	0
2	sb	635	0	636	12	0
2	sc	634	0	637	15	0
2	sd	626	0	626	11	0
2	ta	634	0	637	13	0
2	tb	635	0	636	12	0
2	tc	634	0	637	19	0
2	td	626	0	626	12	0
2	ua	634	0	637	11	0
2	ub	635	0	636	11	0
2	uc	634	0	637	15	0
2	ud	626	0	626	11	0
2	va	634	0	637	9	0
2	vb	635	0	636	10	0
2	vc	634	0	637	14	0
2	vd	626	0	626	11	0
2	wa	634	0	637	10	0
2	wb	635	0	636	10	0
2	wc	634	0	637	14	0
2	wd	626	0	626	11	0
2	xa	634	0	637	9	0
2	xb	635	0	636	9	0
2	xc	634	0	637	19	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	xd	626	0	626	11	0
2	ya	634	0	637	9	0
2	yb	635	0	636	9	0
2	yc	634	0	637	15	0
2	yd	626	0	626	11	0
2	za	634	0	637	10	0
2	zb	635	0	636	8	0
2	zc	634	0	637	19	0
2	zd	626	0	626	12	0
All	All	268440	0	271440	3895	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 7.

All (3895) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eD:69:GLU:HG2	1:gA:79:HIS:HE1	1.23	0.98
1:4C:62:ILE:HG21	2:rc:195:ILE:HG12	1.46	0.95
1:cC:43:VAL:HG23	2:ec:173:PRO:HG3	1.46	0.94
2:3a:118:GLU:OE1	2:4a:134:ARG:NH2	2.01	0.93
2:7a:134:ARG:NH2	2:Ta:118:GLU:OE1	2.02	0.92
1:4D:69:GLU:HG2	1:PA:79:HIS:HE1	1.35	0.88
1:oC:62:ILE:HG21	2:tc:195:ILE:HG12	1.56	0.87
2:Ea:118:GLU:OE1	2:Fa:134:ARG:NH2	2.06	0.87
1:oD:69:GLU:HG2	1:pA:79:HIS:HE1	1.39	0.86
1:eD:69:GLU:HG2	1:gA:79:HIS:CE1	2.11	0.86
2:Ma:118:GLU:OE1	2:Na:134:ARG:NH2	2.09	0.86
2:6c:195:ILE:HG12	1:7C:62:ILE:HG21	1.59	0.84
1:tC:62:ILE:HG21	2:zc:195:ILE:HG12	1.57	0.84
2:sa:118:GLU:OE1	2:ta:134:ARG:NH2	2.09	0.84
1:tD:69:GLU:HG2	1:uA:79:HIS:HE1	1.41	0.83
2:Jc:173:PRO:HG3	1:TC:43:VAL:HG23	1.59	0.83
2:pc:173:PRO:HG3	1:sC:43:VAL:HG23	1.59	0.83
1:JD:69:GLU:HG2	1:KA:79:HIS:HE1	1.43	0.83
2:5c:195:ILE:HG12	1:FC:62:ILE:HG21	1.60	0.83
2:oc:173:PRO:HG3	1:zC:43:VAL:HG23	1.60	0.83
2:4b:118:GLU:OE2	2:rc:134:ARG:NH2	2.11	0.82
2:na:118:GLU:OE1	2:oa:134:ARG:NH2	2.12	0.82
2:Ac:173:PRO:HG3	1:rC:43:VAL:HG23	1.60	0.82
1:7D:69:GLU:HG2	1:QA:79:HIS:HE1	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:69:GLU:HG2	1:IA:79:HIS:HE1	1.45	0.82
2:7c:195:ILE:HG12	1:NC:62:ILE:HG21	1.63	0.80
2:fa:134:ARG:NH2	2:ia:118:GLU:OE1	2.14	0.80
2:0a:134:ARG:NH2	2:za:118:GLU:OE1	2.14	0.80
2:pa:118:GLU:OE1	2:qa:134:ARG:NH2	2.15	0.80
1:BD:69:GLU:HG2	1:CA:79:HIS:HE1	1.45	0.80
1:4D:69:GLU:HG2	1:PA:79:HIS:CE1	2.16	0.79
1:BC:62:ILE:HG21	2:Lc:195:ILE:HG12	1.63	0.79
2:4c:173:PRO:HG3	1:AC:43:VAL:HG23	1.64	0.78
1:4D:43:VAL:HG23	2:Pa:173:PRO:HD3	1.63	0.78
1:0D:69:GLU:HG2	1:1A:79:HIS:HE1	1.47	0.78
2:0c:173:PRO:HG3	1:nC:43:VAL:HG23	1.66	0.78
1:pD:69:GLU:HG2	1:qA:79:HIS:HE1	1.49	0.77
2:aa:118:GLU:OE1	2:ba:134:ARG:NH2	2.16	0.77
2:dc:195:ILE:HG12	1:fC:62:ILE:HG21	1.65	0.77
1:EC:43:VAL:HG23	2:fc:173:PRO:HG3	1.65	0.77
2:ed:134:ARG:HH22	2:gc:118:GLU:HG3	1.49	0.77
2:lc:173:PRO:HG3	1:lC:43:VAL:HG23	1.67	0.77
2:Xc:173:PRO:HG3	1:vC:43:VAL:HG23	1.67	0.77
2:Ed:137:HIS:HA	2:Ed:140:VAL:HG22	1.67	0.77
1:HC:43:VAL:HG23	2:Mc:173:PRO:HG3	1.67	0.77
2:bd:137:HIS:HA	2:bd:140:VAL:HG22	1.67	0.77
2:5d:137:HIS:HA	2:5d:140:VAL:HG22	1.68	0.76
2:7d:137:HIS:HA	2:7d:140:VAL:HG22	1.68	0.76
1:BA:79:HIS:HE1	1:FD:69:GLU:HG2	1.50	0.76
1:DC:43:VAL:HG23	2:Zc:173:PRO:HG3	1.67	0.76
2:Qd:137:HIS:HA	2:Qd:140:VAL:HG22	1.67	0.76
2:Ud:137:HIS:HA	2:Ud:140:VAL:HG22	1.68	0.76
2:pd:137:HIS:HA	2:pd:140:VAL:HG22	1.68	0.76
2:wd:137:HIS:HA	2:wd:140:VAL:HG22	1.68	0.76
2:Cc:173:PRO:HG3	1:KC:43:VAL:HG23	1.68	0.76
2:gd:137:HIS:HA	2:gd:140:VAL:HG22	1.68	0.76
2:0d:137:HIS:HA	2:0d:140:VAL:HG22	1.67	0.76
1:1C:43:VAL:HG23	2:gc:173:PRO:HG3	1.67	0.76
1:5C:43:VAL:HG23	2:ic:173:PRO:HG3	1.67	0.76
2:Dc:173:PRO:HG3	1:YC:43:VAL:HG23	1.67	0.76
2:hd:137:HIS:HA	2:hd:140:VAL:HG22	1.68	0.76
2:Wd:137:HIS:HA	2:Wd:140:VAL:HG22	1.68	0.76
1:aC:43:VAL:HG23	2:vc:173:PRO:HG3	1.67	0.76
2:dd:137:HIS:HA	2:dd:140:VAL:HG22	1.68	0.76
1:eC:43:VAL:HG23	2:xc:173:PRO:HG3	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:oD:69:GLU:HG2	1:pA:79:HIS:CE1	2.21	0.76
2:uc:173:PRO:HG3	1:yC:43:VAL:HG23	1.67	0.76
2:Fd:137:HIS:HA	2:Fd:140:VAL:HG22	1.68	0.76
2:Hc:173:PRO:HG3	1:OC:43:VAL:HG23	1.67	0.76
2:Md:137:HIS:HA	2:Md:140:VAL:HG22	1.68	0.76
2:id:137:HIS:HA	2:id:140:VAL:HG22	1.68	0.76
2:nd:137:HIS:HA	2:nd:140:VAL:HG22	1.68	0.76
2:sd:137:HIS:HA	2:sd:140:VAL:HG22	1.68	0.76
2:Gd:137:HIS:HA	2:Gd:140:VAL:HG22	1.68	0.76
2:Hd:137:HIS:HA	2:Hd:140:VAL:HG22	1.68	0.76
2:Rd:137:HIS:HA	2:Rd:140:VAL:HG22	1.67	0.76
2:Zd:137:HIS:HA	2:Zd:140:VAL:HG22	1.68	0.76
2:cd:137:HIS:HA	2:cd:140:VAL:HG22	1.68	0.76
2:3c:173:PRO:HG3	1:IC:43:VAL:HG23	1.67	0.76
2:Kd:137:HIS:HA	2:Kd:140:VAL:HG22	1.68	0.76
2:Vd:137:HIS:HA	2:Vd:140:VAL:HG22	1.68	0.76
2:Xd:137:HIS:HA	2:Xd:140:VAL:HG22	1.68	0.76
2:Pd:137:HIS:HA	2:Pd:140:VAL:HG22	1.68	0.76
2:Rc:173:PRO:HG3	1:pC:43:VAL:HG23	1.67	0.76
2:Yd:137:HIS:HA	2:Yd:140:VAL:HG22	1.68	0.76
1:kC:43:VAL:HG23	2:nc:173:PRO:HG3	1.67	0.76
2:od:137:HIS:HA	2:od:140:VAL:HG22	1.68	0.76
1:7D:43:VAL:HG23	2:Qa:173:PRO:HD3	1.67	0.76
2:ad:137:HIS:HA	2:ad:140:VAL:HG22	1.68	0.76
2:md:137:HIS:HA	2:md:140:VAL:HG22	1.68	0.76
2:yd:137:HIS:HA	2:yd:140:VAL:HG22	1.68	0.76
2:zd:137:HIS:HA	2:zd:140:VAL:HG22	1.67	0.76
1:2C:43:VAL:HG23	2:mc:173:PRO:HG3	1.67	0.76
1:MC:43:VAL:HG23	2:Oc:173:PRO:HG3	1.67	0.76
1:RC:43:VAL:HG23	2:sc:173:PRO:HG3	1.67	0.76
1:SC:43:VAL:HG23	2:Wc:173:PRO:HG3	1.67	0.76
2:Kc:173:PRO:HG3	1:UC:43:VAL:HG23	1.67	0.75
2:Ld:137:HIS:HA	2:Ld:140:VAL:HG22	1.67	0.75
2:tb:118:GLU:OE2	2:zc:134:ARG:NH2	2.19	0.75
1:OC:62:ILE:HG21	2:kc:195:ILE:HG12	1.68	0.75
2:Tc:173:PRO:HG3	1:VC:43:VAL:HG23	1.67	0.75
1:gC:43:VAL:HG23	2:jc:173:PRO:HG3	1.67	0.75
2:2c:173:PRO:HG3	1:hC:43:VAL:HG23	1.67	0.75
2:Ba:134:ARG:NH2	2:Fa:118:GLU:OE1	2.18	0.75
2:Bd:137:HIS:HA	2:Bd:140:VAL:HG22	1.68	0.75
2:Gc:173:PRO:HG3	1:LC:43:VAL:HG23	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hc:173:PRO:HG3	1:mC:43:VAL:HG23	1.68	0.75
2:2d:137:HIS:HA	2:2d:140:VAL:HG22	1.68	0.75
1:PC:43:VAL:HG23	2:Qc:173:PRO:HG3	1.68	0.75
2:Sc:173:PRO:HG3	1:wC:43:VAL:HG23	1.67	0.75
2:jd:137:HIS:HA	2:jd:140:VAL:HG22	1.68	0.75
2:td:137:HIS:HA	2:td:140:VAL:HG22	1.68	0.75
2:6d:137:HIS:HA	2:6d:140:VAL:HG22	1.68	0.75
1:3C:43:VAL:HG23	2:lc:173:PRO:HG3	1.67	0.75
2:Ad:137:HIS:HA	2:Ad:140:VAL:HG22	1.68	0.75
1:CC:43:VAL:HG23	2:Uc:173:PRO:HG3	1.68	0.75
2:Sd:137:HIS:HA	2:Sd:140:VAL:HG22	1.68	0.75
1:WC:43:VAL:HG23	2:wc:173:PRO:HG3	1.67	0.75
2:fd:137:HIS:HA	2:fd:140:VAL:HG22	1.68	0.75
2:qd:137:HIS:HA	2:qd:140:VAL:HG22	1.68	0.75
2:Ec:173:PRO:HG3	1:dC:43:VAL:HG23	1.67	0.75
2:3d:137:HIS:HA	2:3d:140:VAL:HG22	1.68	0.74
2:ed:137:HIS:HA	2:ed:140:VAL:HG22	1.68	0.74
2:4d:137:HIS:HA	2:4d:140:VAL:HG22	1.68	0.74
2:xd:137:HIS:HA	2:xd:140:VAL:HG22	1.68	0.74
2:1c:173:PRO:HG3	1:jC:43:VAL:HG23	1.67	0.74
1:XC:43:VAL:HG23	2:ac:173:PRO:HG3	1.67	0.74
2:rd:137:HIS:HA	2:rd:140:VAL:HG22	1.68	0.74
2:Cd:137:HIS:HA	2:Cd:140:VAL:HG22	1.68	0.74
2:Jd:137:HIS:HA	2:Jd:140:VAL:HG22	1.68	0.74
2:Td:137:HIS:HA	2:Td:140:VAL:HG22	1.68	0.74
2:1d:137:HIS:HA	2:1d:140:VAL:HG22	1.68	0.74
2:Bc:173:PRO:HG3	1:GC:43:VAL:HG23	1.68	0.74
2:Id:137:HIS:HA	2:Id:140:VAL:HG22	1.68	0.74
2:Yc:173:PRO:HG3	1:ZC:43:VAL:HG23	1.68	0.74
2:Nd:137:HIS:HA	2:Nd:140:VAL:HG22	1.68	0.74
2:cc:173:PRO:HG3	1:xC:43:VAL:HG23	1.67	0.74
2:ld:137:HIS:HA	2:ld:140:VAL:HG22	1.68	0.74
2:ud:137:HIS:HA	2:ud:140:VAL:HG22	1.68	0.74
2:qa:118:GLU:OE1	2:ra:134:ARG:NH2	2.21	0.73
1:JC:43:VAL:HG23	2:Vc:173:PRO:HG3	1.69	0.73
1:3A:97:TYR:OH	2:4a:174:VAL:HG22	1.88	0.73
2:Dd:137:HIS:HA	2:Dd:140:VAL:HG22	1.68	0.73
2:Od:137:HIS:HA	2:Od:140:VAL:HG22	1.68	0.73
2:kd:137:HIS:HA	2:kd:140:VAL:HG22	1.68	0.73
2:vd:137:HIS:HA	2:vd:140:VAL:HG22	1.67	0.73
2:7a:164:VAL:HG22	2:Ta:117:TYR:HB2	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bC:62:ILE:HG21	2:yc:195:ILE:HG12	1.71	0.73
1:ZA:79:HIS:HE1	1:dD:69:GLU:HG2	1.54	0.73
2:nd:185:ILE:O	1:oB:56:LYS:NZ	2.22	0.73
1:tD:43:VAL:HG23	2:ua:173:PRO:HD3	1.71	0.72
1:2A:79:HIS:HE1	1:5D:69:GLU:HG2	1.54	0.72
1:WD:69:GLU:HG2	1:XA:79:HIS:HE1	1.54	0.72
1:LD:69:GLU:HG2	1:MA:79:HIS:HE1	1.55	0.72
2:Pc:195:ILE:HG12	1:qC:62:ILE:HG21	1.70	0.72
1:1D:69:GLU:HG2	1:xA:79:HIS:HE1	1.55	0.72
1:3A:79:HIS:HE1	1:OD:69:GLU:HG2	1.54	0.72
1:KD:69:GLU:HG2	1:LA:79:HIS:HE1	1.55	0.72
1:1D:69:GLU:HG2	1:mA:79:HIS:HE1	1.54	0.72
1:yD:69:GLU:HG2	1:zA:79:HIS:HE1	1.55	0.72
2:Ja:134:ARG:NH2	2:Na:118:GLU:OE1	2.22	0.72
1:SD:69:GLU:HG2	1:TA:79:HIS:HE1	1.54	0.72
1:UA:79:HIS:HE1	1:YD:69:GLU:HG2	1.54	0.72
1:xD:69:GLU:HG2	1:yA:79:HIS:HE1	1.54	0.72
2:7a:174:VAL:HG22	1:TA:97:TYR:OH	1.90	0.72
1:cD:69:GLU:HG2	1:dA:79:HIS:HE1	1.55	0.72
1:hD:69:GLU:HG2	1:iA:79:HIS:HE1	1.55	0.72
2:Bb:118:GLU:OE2	2:Lc:134:ARG:NH2	2.23	0.72
1:QD:69:GLU:HG2	1:RA:79:HIS:HE1	1.55	0.72
1:VD:69:GLU:HG2	1:WA:79:HIS:HE1	1.55	0.72
2:7c:134:ARG:NH2	1:NB:92:GLU:OE2	2.22	0.72
1:RD:69:GLU:HG2	1:SA:79:HIS:HE1	1.55	0.72
1:5A:79:HIS:HE1	1:GD:69:GLU:HG2	1.55	0.72
1:GA:79:HIS:HE1	1:HD:69:GLU:HG2	1.54	0.72
1:vD:69:GLU:HG2	1:wA:79:HIS:HE1	1.55	0.72
1:DD:69:GLU:HG2	1:EA:79:HIS:HE1	1.55	0.71
1:HA:79:HIS:HE1	1:ID:69:GLU:HG2	1.55	0.71
1:XD:69:GLU:HG2	1:YA:79:HIS:HE1	1.55	0.71
1:jA:79:HIS:HE1	1:mD:69:GLU:HG2	1.55	0.71
1:ZD:69:GLU:HG2	1:aA:79:HIS:HE1	1.55	0.71
1:QC:43:VAL:HG23	2:qc:173:PRO:HG3	1.72	0.71
2:eb:118:GLU:OE2	2:xc:134:ARG:NH2	2.21	0.71
1:jD:69:GLU:HG2	1:kA:79:HIS:HE1	1.55	0.71
1:nA:79:HIS:HE1	1:rD:69:GLU:HG2	1.55	0.71
1:sA:79:HIS:HE1	1:wD:69:GLU:HG2	1.54	0.71
1:6D:69:GLU:HG2	1:OA:79:HIS:HE1	1.55	0.71
1:UD:69:GLU:HG2	1:VA:79:HIS:HE1	1.55	0.71
1:gD:69:GLU:HG2	1:hA:79:HIS:HE1	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6A:79:HIS:HE1	1:PD:69:GLU:HG2	1.55	0.71
1:eA:79:HIS:HE1	1:fD:69:GLU:HG2	1.55	0.71
1:AA:79:HIS:HE1	1:kD:69:GLU:HG2	1.56	0.71
2:Xa:118:GLU:OE1	2:Ya:134:ARG:NH2	2.24	0.71
1:uD:69:GLU:HG2	1:vA:79:HIS:HE1	1.55	0.71
1:2D:69:GLU:HG2	1:IA:79:HIS:HE1	1.55	0.70
2:2a:118:GLU:OE1	2:Ia:134:ARG:NH2	2.24	0.70
2:Za:118:GLU:OE1	2:aa:134:ARG:NH2	2.24	0.70
1:tD:69:GLU:HG2	1:uA:79:HIS:CE1	2.25	0.70
2:Ka:118:GLU:OE1	2:La:134:ARG:NH2	2.24	0.70
2:ya:118:GLU:OE1	2:za:134:ARG:NH2	2.24	0.70
1:CD:69:GLU:HG2	1:DA:79:HIS:HE1	1.55	0.70
2:Qa:118:GLU:OE1	2:Ra:134:ARG:NH2	2.24	0.70
2:3a:117:TYR:HB2	2:4a:164:VAL:HG22	1.73	0.70
2:5a:134:ARG:NH2	2:Ga:118:GLU:OE1	2.24	0.70
2:Ha:134:ARG:NH2	2:Ia:118:GLU:OE1	2.25	0.70
1:eC:62:ILE:HG21	2:xc:195:ILE:HG12	1.73	0.70
2:ha:118:GLU:OE1	2:ia:134:ARG:NH2	2.24	0.70
2:na:134:ARG:NH2	2:ra:118:GLU:OE1	2.25	0.70
2:1a:118:GLU:OE1	2:xa:134:ARG:NH2	2.24	0.70
2:2a:134:ARG:NH2	2:5a:118:GLU:OE1	2.25	0.70
1:EA:97:TYR:OH	2:Fa:174:VAL:HG22	1.91	0.70
2:Ga:134:ARG:NH2	2:Ha:118:GLU:OE1	2.25	0.70
1:JC:62:ILE:HG21	2:Vc:195:ILE:HG12	1.73	0.70
2:Ra:118:GLU:OE1	2:Sa:134:ARG:NH2	2.25	0.70
2:Sa:118:GLU:OE1	2:Ta:134:ARG:NH2	2.25	0.70
1:bD:69:GLU:HG2	1:cA:79:HIS:HE1	1.55	0.70
1:oD:36:PHE:N	1:pD:38:TYR:HH	1.89	0.70
2:xa:118:GLU:OE1	2:ya:134:ARG:NH2	2.25	0.70
2:6a:118:GLU:OE1	2:Oa:134:ARG:NH2	2.24	0.70
2:Ea:117:TYR:HB2	2:Fa:164:VAL:HG22	1.74	0.70
2:ja:118:GLU:OE1	2:ka:134:ARG:NH2	2.25	0.70
2:dc:134:ARG:NH2	2:fb:118:GLU:OE2	2.22	0.69
2:Ca:118:GLU:OE1	2:Da:134:ARG:NH2	2.24	0.69
2:la:118:GLU:OE1	2:ma:134:ARG:NH2	2.25	0.69
1:JD:69:GLU:HG2	1:KA:79:HIS:CE1	2.27	0.69
2:La:118:GLU:OE1	2:Ma:134:ARG:NH2	2.25	0.69
2:ua:118:GLU:OE1	2:va:134:ARG:NH2	2.24	0.69
1:4B:92:GLU:OE2	2:rc:134:ARG:NH2	2.26	0.69
2:Bc:134:ARG:NH2	1:GB:92:GLU:OE2	2.26	0.69
2:bc:173:PRO:HG3	1:uC:43:VAL:HG23	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Fc:134:ARG:NH2	1:iB:92:GLU:OE2	2.25	0.69
2:4c:134:ARG:NH2	1:AB:92:GLU:OE2	2.26	0.69
2:Wa:118:GLU:OE1	2:Xa:134:ARG:NH2	2.25	0.69
2:Za:134:ARG:NH2	2:da:118:GLU:OE1	2.25	0.69
1:eD:43:VAL:HG23	2:ga:173:PRO:HD3	1.73	0.69
2:Da:118:GLU:OE1	2:Ea:134:ARG:NH2	2.25	0.68
2:Jb:118:GLU:OE2	2:Vc:134:ARG:NH2	2.24	0.68
2:va:118:GLU:OE1	2:wa:134:ARG:NH2	2.25	0.68
2:Ua:134:ARG:NH2	2:Ya:118:GLU:OE1	2.25	0.68
2:ca:118:GLU:OE1	2:da:134:ARG:NH2	2.25	0.68
2:td:185:ILE:O	1:uB:56:LYS:NZ	2.22	0.68
2:4b:117:TYR:HB2	2:rc:164:VAL:HG22	1.75	0.68
1:7D:69:GLU:HG2	1:QA:79:HIS:CE1	2.26	0.68
2:Ua:118:GLU:OE1	2:Va:134:ARG:NH2	2.24	0.68
2:Va:118:GLU:OE1	2:Wa:134:ARG:NH2	2.25	0.68
1:aD:69:GLU:HG2	1:bA:79:HIS:HE1	1.59	0.68
2:3a:134:ARG:NH2	2:Oa:118:GLU:OE1	2.25	0.68
2:4d:185:ILE:O	1:PB:56:LYS:NZ	2.23	0.68
1:BD:43:VAL:HG23	2:Ca:173:PRO:HD3	1.76	0.68
2:ea:134:ARG:NH2	2:fa:118:GLU:OE1	2.26	0.68
2:Pc:173:PRO:HG3	1:qC:43:VAL:HG23	1.74	0.67
2:6a:134:ARG:NH2	2:Pa:118:GLU:OE1	2.24	0.67
2:dc:134:ARG:NH2	1:fB:92:GLU:OE2	2.28	0.67
1:0C:43:VAL:HG23	2:kc:173:PRO:HG3	1.75	0.67
1:JA:79:HIS:HE1	1:ND:69:GLU:HG2	1.60	0.67
1:eD:36:PHE:N	1:gD:38:TYR:HH	1.93	0.67
2:ja:134:ARG:NH2	2:ma:118:GLU:OE1	2.24	0.67
1:6C:62:ILE:HG21	2:Nc:195:ILE:HG12	1.75	0.67
2:Rc:195:ILE:HG12	1:pC:62:ILE:HG21	1.75	0.67
2:ad:185:ILE:O	1:bB:56:LYS:NZ	2.25	0.67
2:sa:134:ARG:NH2	2:wa:118:GLU:OE1	2.25	0.67
2:bc:134:ARG:NH2	1:uB:92:GLU:OE2	2.27	0.67
2:ga:118:GLU:OE1	2:ha:134:ARG:NH2	2.25	0.67
1:0B:92:GLU:OE2	2:kc:134:ARG:NH2	2.28	0.67
2:Bd:185:ILE:O	1:CB:56:LYS:NZ	2.24	0.67
2:5c:173:PRO:HG3	1:FC:43:VAL:HG23	1.76	0.67
1:6C:43:VAL:HG23	2:Nc:173:PRO:HG3	1.75	0.67
1:QC:62:ILE:HG21	2:qc:195:ILE:HG12	1.75	0.67
2:ba:118:GLU:OE1	2:ca:134:ARG:NH2	2.27	0.67
2:6c:134:ARG:NH2	2:7b:118:GLU:OE2	2.24	0.66
2:Aa:134:ARG:NH2	2:ka:118:GLU:OE1	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Fc:195:ILE:HG12	1:iC:62:ILE:HG21	1.76	0.66
1:bC:43:VAL:HG23	2:yc:173:PRO:HG3	1.76	0.66
1:tB:92:GLU:OE2	2:zc:134:ARG:NH2	2.27	0.66
2:dc:173:PRO:HG3	1:fC:43:VAL:HG23	1.76	0.66
1:0A:79:HIS:HE1	1:zD:69:GLU:HG2	1.61	0.66
2:Ac:134:ARG:NH2	1:rB:92:GLU:OE2	2.28	0.66
2:7a:118:GLU:OE1	2:Qa:134:ARG:NH2	2.29	0.66
1:BD:69:GLU:HG2	1:CA:79:HIS:CE1	2.30	0.66
1:BB:92:GLU:OE2	2:Lc:134:ARG:NH2	2.28	0.66
2:Ja:118:GLU:OE1	2:Ka:134:ARG:NH2	2.28	0.66
1:qD:69:GLU:HG2	1:rA:79:HIS:HE1	1.58	0.66
2:Rc:134:ARG:NH2	2:pb:118:GLU:OE2	2.26	0.66
2:ea:173:PRO:HD3	1:fD:43:VAL:HG23	1.79	0.66
1:0D:43:VAL:HG23	2:1a:173:PRO:HD3	1.78	0.65
1:0D:69:GLU:HG2	1:1A:79:HIS:CE1	2.31	0.65
2:6c:134:ARG:NH2	1:7B:92:GLU:OE2	2.28	0.65
2:Rc:134:ARG:NH2	1:pB:92:GLU:OE2	2.29	0.65
2:7d:185:ILE:O	1:QB:56:LYS:NZ	2.27	0.65
1:fA:79:HIS:HE1	1:iD:69:GLU:HG2	1.61	0.65
1:oB:92:GLU:OE2	2:tc:134:ARG:NH2	2.30	0.65
2:0a:118:GLU:OE1	2:1a:134:ARG:NH2	2.28	0.65
1:JB:92:GLU:OE2	2:Vc:134:ARG:NH2	2.29	0.65
2:Pc:134:ARG:NH2	1:qB:92:GLU:OE2	2.29	0.65
2:bc:195:ILE:HG12	1:uC:62:ILE:HG21	1.77	0.65
2:Aa:118:GLU:OE1	2:la:134:ARG:NH2	2.30	0.65
1:bB:92:GLU:OE2	2:yc:134:ARG:NH2	2.29	0.65
2:fa:164:VAL:HG22	2:ia:117:TYR:HB2	1.79	0.65
2:Ba:173:PRO:HD3	1:FD:43:VAL:HG23	1.79	0.65
1:PB:92:GLU:OE2	2:Qc:134:ARG:NH2	2.30	0.65
1:DB:92:GLU:OE2	2:Zc:134:ARG:NH2	2.30	0.65
2:Xc:134:ARG:NH2	1:vB:92:GLU:OE2	2.30	0.65
2:hc:134:ARG:NH2	1:mB:92:GLU:OE2	2.30	0.65
2:Hc:134:ARG:NH2	1:OB:92:GLU:OE2	2.30	0.65
1:kB:92:GLU:OE2	2:nc:134:ARG:NH2	2.30	0.65
2:0c:134:ARG:NH2	1:nB:92:GLU:OE2	2.30	0.64
1:BB:56:LYS:NZ	2:Fd:185:ILE:O	2.25	0.64
2:Fc:173:PRO:HG3	1:iC:43:VAL:HG23	1.79	0.64
1:RB:92:GLU:OE2	2:sc:134:ARG:NH2	2.30	0.64
2:2c:134:ARG:NH2	1:hB:92:GLU:OE2	2.30	0.64
2:Jc:157:ARG:NH2	2:Jc:159:GLU:OE1	2.31	0.64
1:SB:92:GLU:OE2	2:Wc:134:ARG:NH2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CB:92:GLU:OE2	2:Uc:134:ARG:NH2	2.30	0.64
2:Dc:157:ARG:NH2	2:Dc:159:GLU:OE1	2.31	0.64
2:Fc:167:PRO:HD2	1:iB:93:MET:HE2	1.78	0.64
2:Lc:157:ARG:NH2	2:Lc:159:GLU:OE1	2.31	0.64
2:Xc:157:ARG:NH2	2:Xc:159:GLU:OE1	2.31	0.64
2:bd:185:ILE:O	1:cB:56:LYS:NZ	2.26	0.64
2:ec:157:ARG:NH2	2:ec:159:GLU:OE1	2.31	0.64
2:mc:157:ARG:NH2	2:mc:159:GLU:OE1	2.31	0.64
2:uc:134:ARG:NH2	1:yB:92:GLU:OE2	2.30	0.64
2:vc:157:ARG:NH2	2:vc:159:GLU:OE1	2.31	0.64
2:xc:157:ARG:NH2	2:xc:159:GLU:OE1	2.31	0.64
2:zc:157:ARG:NH2	2:zc:159:GLU:OE1	2.31	0.64
2:5c:157:ARG:NH2	2:5c:159:GLU:OE1	2.31	0.64
2:6c:157:ARG:NH2	2:6c:159:GLU:OE1	2.31	0.64
2:Cc:134:ARG:NH2	1:KB:92:GLU:OE2	2.30	0.64
2:Kc:157:ARG:NH2	2:Kc:159:GLU:OE1	2.31	0.64
1:MD:69:GLU:HG2	1:NA:79:HIS:HE1	1.61	0.64
2:Oc:157:ARG:NH2	2:Oc:159:GLU:OE1	2.31	0.64
2:Pc:157:ARG:NH2	2:Pc:159:GLU:OE1	2.31	0.64
2:Tc:157:ARG:NH2	2:Tc:159:GLU:OE1	2.31	0.64
2:Zc:157:ARG:NH2	2:Zc:159:GLU:OE1	2.31	0.64
2:jc:157:ARG:NH2	2:jc:159:GLU:OE1	2.31	0.64
2:kc:157:ARG:NH2	2:kc:159:GLU:OE1	2.31	0.64
2:oc:157:ARG:NH2	2:oc:159:GLU:OE1	2.31	0.64
2:tc:157:ARG:NH2	2:tc:159:GLU:OE1	2.31	0.64
2:yc:157:ARG:NH2	2:yc:159:GLU:OE1	2.31	0.64
1:4D:36:PHE:N	1:PD:38:TYR:HH	1.94	0.64
2:Bc:157:ARG:NH2	2:Bc:159:GLU:OE1	2.31	0.64
2:Cc:157:ARG:NH2	2:Cc:159:GLU:OE1	2.31	0.64
2:Gc:157:ARG:NH2	2:Gc:159:GLU:OE1	2.31	0.64
1:WB:92:GLU:OE2	2:wc:134:ARG:NH2	2.30	0.64
1:aC:62:ILE:HG21	2:vc:195:ILE:HG12	1.80	0.64
1:eB:92:GLU:OE2	2:xc:134:ARG:NH2	2.31	0.64
2:nc:157:ARG:NH2	2:nc:159:GLU:OE1	2.31	0.64
2:pc:157:ARG:NH2	2:pc:159:GLU:OE1	2.31	0.64
2:3c:157:ARG:NH2	2:3c:159:GLU:OE1	2.31	0.64
2:Ac:157:ARG:NH2	2:Ac:159:GLU:OE1	2.31	0.64
2:Ec:134:ARG:NH2	1:dB:92:GLU:OE2	2.30	0.64
2:Gc:134:ARG:NH2	1:LB:92:GLU:OE2	2.30	0.64
2:Hc:157:ARG:NH2	2:Hc:159:GLU:OE1	2.31	0.64
2:Kc:134:ARG:NH2	1:UB:92:GLU:OE2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Rc:157:ARG:NH2	2:Rc:159:GLU:OE1	2.31	0.64
2:fc:157:ARG:NH2	2:fc:159:GLU:OE1	2.31	0.64
2:uc:157:ARG:NH2	2:uc:159:GLU:OE1	2.31	0.64
2:Dc:195:ILE:HG12	1:YC:62:ILE:HG21	1.80	0.64
2:Ec:157:ARG:NH2	2:Ec:159:GLU:OE1	2.31	0.64
1:HC:62:ILE:HG21	2:Mc:195:ILE:HG12	1.80	0.64
2:Pc:134:ARG:NH2	2:qb:118:GLU:OE2	2.26	0.64
2:Sc:157:ARG:NH2	2:Sc:159:GLU:OE1	2.31	0.64
2:Yc:157:ARG:NH2	2:Yc:159:GLU:OE1	2.31	0.64
2:cc:134:ARG:NH2	1:xB:92:GLU:OE2	2.31	0.64
2:sd:185:ILE:O	1:tB:56:LYS:NZ	2.25	0.64
2:wc:157:ARG:NH2	2:wc:159:GLU:OE1	2.31	0.64
1:3D:62:ILE:HG21	2:4a:195:ILE:HA	1.80	0.64
2:4c:157:ARG:NH2	2:4c:159:GLU:OE1	2.31	0.64
1:HB:92:GLU:OE2	2:Mc:134:ARG:NH2	2.30	0.64
1:MC:62:ILE:HG21	2:Oc:195:ILE:HG12	1.80	0.64
2:Vc:157:ARG:NH2	2:Vc:159:GLU:OE1	2.31	0.64
2:cc:157:ARG:NH2	2:cc:159:GLU:OE1	2.31	0.64
1:gC:62:ILE:HG21	2:jC:195:ILE:HG12	1.80	0.64
2:ic:157:ARG:NH2	2:ic:159:GLU:OE1	2.31	0.64
2:lc:157:ARG:NH2	2:lc:159:GLU:OE1	2.31	0.64
1:2B:92:GLU:OE2	2:mc:134:ARG:NH2	2.30	0.64
1:3B:92:GLU:OE2	2:lc:134:ARG:NH2	2.31	0.64
2:Gc:195:ILE:HG12	1:LC:62:ILE:HG21	1.80	0.64
2:Kc:195:ILE:HG12	1:UC:62:ILE:HG21	1.80	0.64
2:Qc:157:ARG:NH2	2:Qc:159:GLU:OE1	2.31	0.64
2:Sc:195:ILE:HG12	1:wC:62:ILE:HG21	1.80	0.64
2:ac:157:ARG:NH2	2:ac:159:GLU:OE1	2.31	0.64
2:dc:157:ARG:NH2	2:dc:159:GLU:OE1	2.31	0.64
2:qc:157:ARG:NH2	2:qc:159:GLU:OE1	2.31	0.64
2:1c:195:ILE:HG12	1:jC:62:ILE:HG21	1.80	0.64
2:2c:157:ARG:NH2	2:2c:159:GLU:OE1	2.31	0.64
2:Pc:164:VAL:HG22	2:qb:117:TYR:HB2	1.80	0.64
2:Tc:195:ILE:HG12	1:VC:62:ILE:HG21	1.80	0.64
2:Wc:157:ARG:NH2	2:Wc:159:GLU:OE1	2.31	0.64
2:0b:118:GLU:OE2	2:kc:134:ARG:NH2	2.25	0.63
2:1c:157:ARG:NH2	2:1c:159:GLU:OE1	2.31	0.63
1:AD:69:GLU:HG2	1:IA:79:HIS:CE1	2.32	0.63
1:BA:79:HIS:CE1	1:FD:69:GLU:HG2	2.33	0.63
1:EB:92:GLU:OE2	2:fc:134:ARG:NH2	2.31	0.63
2:Ic:157:ARG:NH2	2:Ic:159:GLU:OE1	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ic:195:ILE:HG12	1:lC:62:ILE:HG21	1.80	0.63
1:gB:92:GLU:OE2	2:jc:134:ARG:NH2	2.31	0.63
2:hc:157:ARG:NH2	2:hc:159:GLU:OE1	2.31	0.63
2:hc:195:ILE:HG12	1:mC:62:ILE:HG21	1.80	0.63
2:rc:157:ARG:NH2	2:rc:159:GLU:OE1	2.31	0.63
2:Ec:195:ILE:HG12	1:dC:62:ILE:HG21	1.80	0.63
2:Fc:157:ARG:NH2	2:Fc:159:GLU:OE1	2.31	0.63
2:Nc:157:ARG:NH2	2:Nc:159:GLU:OE1	2.31	0.63
2:Sc:134:ARG:NH2	1:wB:92:GLU:OE2	2.30	0.63
2:Tc:134:ARG:NH2	1:VB:92:GLU:OE2	2.30	0.63
1:WC:62:ILE:HG21	2:wc:195:ILE:HG12	1.80	0.63
1:aB:92:GLU:OE2	2:vc:134:ARG:NH2	2.31	0.63
1:oC:43:VAL:HG23	2:tc:173:PRO:HG3	1.80	0.63
1:5B:92:GLU:OE2	2:ic:134:ARG:NH2	2.31	0.63
2:Dc:134:ARG:NH2	1:YB:92:GLU:OE2	2.31	0.63
1:RC:62:ILE:HG21	2:sc:195:ILE:HG12	1.80	0.63
1:oD:43:VAL:HG23	2:pa:173:PRO:HD3	1.81	0.63
2:uc:195:ILE:HG12	1:yC:62:ILE:HG21	1.80	0.63
1:MB:92:GLU:OE2	2:Oc:134:ARG:NH2	2.30	0.63
1:PC:62:ILE:HG21	2:Qc:195:ILE:HG12	1.80	0.63
1:CC:62:ILE:HG21	2:Uc:195:ILE:HG12	1.80	0.63
1:SC:62:ILE:HG21	2:Wc:195:ILE:HG12	1.80	0.63
2:cc:195:ILE:HG12	1:xC:62:ILE:HG21	1.80	0.63
2:sc:157:ARG:NH2	2:sc:159:GLU:OE1	2.31	0.63
2:0c:157:ARG:NH2	2:0c:159:GLU:OE1	2.31	0.63
1:BC:43:VAL:HG23	2:Lc:173:PRO:HG3	1.80	0.63
1:DC:62:ILE:HG21	2:Zc:195:ILE:HG12	1.80	0.63
1:nA:97:TYR:OH	2:oa:174:VAL:HG22	1.99	0.63
1:4B:93:MET:HE3	2:rc:171:GLU:HG2	1.80	0.63
2:Cc:195:ILE:HG12	1:KC:62:ILE:HG21	1.80	0.63
2:Xc:195:ILE:HG12	1:vC:62:ILE:HG21	1.80	0.63
1:tD:36:PHE:N	1:uD:38:TYR:HH	1.96	0.63
2:0a:164:VAL:HG22	2:za:117:TYR:HB2	1.81	0.63
1:3C:62:ILE:HG21	2:lc:195:ILE:HG12	1.80	0.63
2:3c:195:ILE:HG12	1:IC:62:ILE:HG21	1.80	0.63
2:Mc:157:ARG:NH2	2:Mc:159:GLU:OE1	2.31	0.63
2:Uc:157:ARG:NH2	2:Uc:159:GLU:OE1	2.31	0.63
2:bc:157:ARG:NH2	2:bc:159:GLU:OE1	2.31	0.63
1:1B:92:GLU:OE2	2:gc:134:ARG:NH2	2.31	0.63
2:7c:157:ARG:NH2	2:7c:159:GLU:OE1	2.31	0.63
2:Ic:134:ARG:NH2	1:lB:92:GLU:OE2	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Qb:118:GLU:OE2	2:qc:134:ARG:NH2	2.27	0.63
2:Yc:134:ARG:NH2	1:ZB:92:GLU:OE2	2.31	0.63
1:5C:62:ILE:HG21	2:ic:195:ILE:HG12	1.80	0.62
2:6c:173:PRO:HG3	1:7C:43:VAL:HG23	1.81	0.62
2:Md:185:ILE:O	1:NB:56:LYS:NZ	2.25	0.62
1:XC:62:ILE:HG21	2:ac:195:ILE:HG12	1.80	0.62
2:Yc:195:ILE:HG12	1:ZC:62:ILE:HG21	1.80	0.62
2:gc:157:ARG:NH2	2:gc:159:GLU:OE1	2.31	0.62
2:3c:134:ARG:NH2	1:IB:92:GLU:OE2	2.30	0.62
1:6B:92:GLU:OE2	2:Nc:134:ARG:NH2	2.30	0.62
1:XB:92:GLU:OE2	2:ac:134:ARG:NH2	2.31	0.62
2:sa:117:TYR:HB2	2:ta:164:VAL:HG22	1.81	0.62
1:2C:62:ILE:HG21	2:mc:195:ILE:HG12	1.80	0.62
1:JD:43:VAL:HG23	2:Ka:173:PRO:HD3	1.81	0.62
2:1c:134:ARG:NH2	1:jB:92:GLU:OE2	2.30	0.62
2:2c:195:ILE:HG12	1:hC:62:ILE:HG21	1.80	0.62
2:dc:164:VAL:HG22	2:fb:117:TYR:HB2	1.81	0.62
2:Hc:195:ILE:HG12	1:OC:62:ILE:HG21	1.80	0.62
1:kC:62:ILE:HG21	2:nc:195:ILE:HG12	1.80	0.62
2:pc:134:ARG:NH2	1:sB:92:GLU:OE2	2.33	0.62
1:1C:62:ILE:HG21	2:gc:195:ILE:HG12	1.80	0.62
1:pD:69:GLU:HG2	1:qA:79:HIS:CE1	2.34	0.62
2:4b:118:GLU:CD	2:rc:134:ARG:HH12	2.08	0.62
2:5c:134:ARG:NH2	2:Fb:118:GLU:OE2	2.27	0.62
2:Jc:134:ARG:NH2	1:TB:92:GLU:OE2	2.32	0.62
1:4B:93:MET:HE2	2:rc:167:PRO:HD2	1.82	0.61
2:Ba:118:GLU:OE1	2:Ca:134:ARG:NH2	2.32	0.61
2:Ed:185:ILE:O	1:FB:56:LYS:NZ	2.24	0.61
2:7c:164:VAL:HG22	2:Nb:117:TYR:HB2	1.82	0.61
1:nD:69:GLU:HG2	1:oA:79:HIS:HE1	1.65	0.61
2:7a:195:ILE:HA	1:TD:62:ILE:HG21	1.82	0.61
2:Ma:117:TYR:HB2	2:Na:164:VAL:HG22	1.81	0.61
2:Qb:117:TYR:HB2	2:qc:164:VAL:HG22	1.82	0.61
2:oc:134:ARG:NH2	1:zB:92:GLU:OE2	2.33	0.61
1:sA:97:TYR:OH	2:ta:174:VAL:HG22	2.01	0.61
1:MD:67:THR:HA	1:MD:70:GLN:HB2	1.83	0.61
1:QB:92:GLU:OE2	2:qc:134:ARG:NH2	2.33	0.61
1:TD:67:THR:HA	1:TD:70:GLN:HB2	1.83	0.61
1:pD:67:THR:HA	1:pD:70:GLN:HB2	1.83	0.61
1:sD:69:GLU:HG2	1:tA:79:HIS:HE1	1.65	0.61
1:wD:67:THR:HA	1:wD:70:GLN:HB2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0c:195:ILE:HG12	1:mC:62:ILE:HG21	1.83	0.61
2:7c:167:PRO:HD2	1:NB:93:MET:HE2	1.81	0.61
2:cc:134:ARG:NH2	2:xb:118:GLU:OE2	2.31	0.61
1:0D:67:THR:HA	1:0D:70:GLN:HB2	1.83	0.61
1:4D:67:THR:HA	1:4D:70:GLN:HB2	1.83	0.61
1:5D:67:THR:HA	1:5D:70:GLN:HB2	1.83	0.61
1:ED:67:THR:HA	1:ED:70:GLN:HB2	1.83	0.61
1:cB:92:GLU:OE2	2:ec:134:ARG:NH2	2.34	0.61
1:lD:67:THR:HA	1:lD:70:GLN:HB2	1.83	0.61
1:CD:67:THR:HA	1:CD:70:GLN:HB2	1.83	0.60
1:eD:67:THR:HA	1:eD:70:GLN:HB2	1.83	0.60
2:Pb:118:GLU:OE2	2:Qc:134:ARG:NH2	2.31	0.60
1:tB:93:MET:HE2	2:zc:167:PRO:HD2	1.83	0.60
1:2D:67:THR:HA	1:2D:70:GLN:HB2	1.83	0.60
1:LD:67:THR:HA	1:LD:70:GLN:HB2	1.83	0.60
1:aD:67:THR:HA	1:aD:70:GLN:HB2	1.83	0.60
2:ed:167:PRO:HD2	1:gC:93:MET:HE3	1.81	0.60
1:qD:67:THR:HA	1:qD:70:GLN:HB2	1.83	0.60
1:uD:67:THR:HA	1:uD:70:GLN:HB2	1.83	0.60
1:zD:67:THR:HA	1:zD:70:GLN:HB2	1.83	0.60
2:Db:118:GLU:OE2	2:Zc:134:ARG:NH2	2.31	0.60
1:SD:67:THR:HA	1:SD:70:GLN:HB2	1.83	0.60
1:YD:67:THR:HA	1:YD:70:GLN:HB2	1.83	0.60
2:ob:118:GLU:OE2	2:tc:134:ARG:NH2	2.29	0.60
1:rD:67:THR:HA	1:rD:70:GLN:HB2	1.83	0.60
2:0b:117:TYR:HB2	2:kc:164:VAL:HG22	1.84	0.60
1:ID:67:THR:HA	1:ID:70:GLN:HB2	1.83	0.60
1:fD:67:THR:HA	1:fD:70:GLN:HB2	1.83	0.60
2:hc:134:ARG:NH2	2:mb:118:GLU:OE2	2.31	0.60
1:QD:67:THR:HA	1:QD:70:GLN:HB2	1.83	0.60
2:Xc:134:ARG:NH2	2:vb:118:GLU:OE2	2.31	0.60
2:Sb:118:GLU:OE2	2:Wc:134:ARG:NH2	2.31	0.60
2:Zd:185:ILE:O	1:aB:56:LYS:NZ	2.33	0.60
1:hD:67:THR:HA	1:hD:70:GLN:HB2	1.83	0.60
1:oD:67:THR:HA	1:oD:70:GLN:HB2	1.83	0.60
2:ob:117:TYR:HB2	2:tc:164:VAL:HG22	1.84	0.60
1:3D:67:THR:HA	1:3D:70:GLN:HB2	1.83	0.60
1:BD:36:PHE:N	1:CD:38:TYR:HH	2.00	0.60
1:ED:62:ILE:HG21	2:Fa:195:ILE:HA	1.84	0.60
1:UD:67:THR:HA	1:UD:70:GLN:HB2	1.83	0.60
2:Wb:118:GLU:OE2	2:wc:134:ARG:NH2	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Yc:134:ARG:NH2	2:Zb:118:GLU:OE2	2.31	0.60
1:bD:67:THR:HA	1:bD:70:GLN:HB2	1.83	0.60
1:sD:67:THR:HA	1:sD:70:GLN:HB2	1.83	0.60
2:Ec:134:ARG:NH2	2:db:118:GLU:OE2	2.31	0.60
1:FD:67:THR:HA	1:FD:70:GLN:HB2	1.83	0.60
1:GD:67:THR:HA	1:GD:70:GLN:HB2	1.83	0.60
2:Xb:118:GLU:OE2	2:ac:134:ARG:NH2	2.31	0.60
2:Xd:185:ILE:O	1:YB:56:LYS:NZ	2.33	0.60
2:5b:118:GLU:OE2	2:ic:134:ARG:NH2	2.31	0.60
1:6D:67:THR:HA	1:6D:70:GLN:HB2	1.83	0.60
1:HD:67:THR:HA	1:HD:70:GLN:HB2	1.83	0.60
2:gb:171:GLU:OE1	2:gb:171:GLU:N	2.35	0.60
1:iD:67:THR:HA	1:iD:70:GLN:HB2	1.83	0.60
1:nD:67:THR:HA	1:nD:70:GLN:HB2	1.83	0.60
1:vD:67:THR:HA	1:vD:70:GLN:HB2	1.83	0.60
1:1D:67:THR:HA	1:1D:70:GLN:HB2	1.83	0.59
1:7D:67:THR:HA	1:7D:70:GLN:HB2	1.83	0.59
2:7b:171:GLU:OE1	2:7b:171:GLU:N	2.35	0.59
1:AD:67:THR:HA	1:AD:70:GLN:HB2	1.83	0.59
2:2b:171:GLU:N	2:2b:171:GLU:OE1	2.35	0.59
1:7B:56:LYS:NZ	2:Td:185:ILE:O	2.28	0.59
1:BD:67:THR:HA	1:BD:70:GLN:HB2	1.83	0.59
2:Bb:171:GLU:N	2:Bb:171:GLU:OE1	2.36	0.59
1:ND:67:THR:HA	1:ND:70:GLN:HB2	1.83	0.59
1:gD:67:THR:HA	1:gD:70:GLN:HB2	1.83	0.59
1:jD:67:THR:HA	1:jD:70:GLN:HB2	1.83	0.59
2:qb:171:GLU:OE1	2:qb:171:GLU:N	2.35	0.59
1:tC:43:VAL:HG23	2:zc:173:PRO:HG3	1.84	0.59
2:tb:171:GLU:OE1	2:tb:171:GLU:N	2.35	0.59
2:5d:127:ARG:HG3	2:5d:160:ASP:HB3	1.85	0.59
1:DD:67:THR:HA	1:DD:70:GLN:HB2	1.83	0.59
1:RD:67:THR:HA	1:RD:70:GLN:HB2	1.83	0.59
1:2C:88:LEU:HA	1:2C:91:ILE:HD12	1.85	0.59
1:AD:43:VAL:HG23	2:la:173:PRO:HD3	1.84	0.59
1:KD:67:THR:HA	1:KD:70:GLN:HB2	1.83	0.59
1:eC:88:LEU:HA	1:eC:91:ILE:HD12	1.85	0.59
2:fb:171:GLU:OE1	2:fb:171:GLU:N	2.35	0.59
2:na:117:TYR:HB2	2:oa:164:VAL:HG22	1.83	0.59
1:qC:88:LEU:HA	1:qC:91:ILE:HD12	1.85	0.59
1:tD:67:THR:HA	1:tD:70:GLN:HB2	1.83	0.59
2:ta:118:GLU:OE1	2:ua:134:ARG:NH2	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:tb:117:TYR:HB2	2:zc:164:VAL:HG22	1.83	0.59
2:Jb:171:GLU:OE1	2:Jb:171:GLU:N	2.35	0.59
1:OC:88:LEU:HA	1:OC:91:ILE:HD12	1.85	0.59
1:RC:88:LEU:HA	1:RC:91:ILE:HD12	1.85	0.59
2:Sb:171:GLU:OE1	2:Sb:171:GLU:N	2.35	0.59
1:TC:88:LEU:HA	1:TC:91:ILE:HD12	1.85	0.59
1:ZD:67:THR:HA	1:ZD:70:GLN:HB2	1.83	0.59
2:ad:127:ARG:HG3	2:ad:160:ASP:HB3	1.85	0.59
1:cD:67:THR:HA	1:cD:70:GLN:HB2	1.83	0.59
1:iC:88:LEU:HA	1:iC:91:ILE:HD12	1.85	0.59
1:kC:88:LEU:HA	1:kC:91:ILE:HD12	1.85	0.59
1:kD:67:THR:HA	1:kD:70:GLN:HB2	1.83	0.59
2:pd:127:ARG:HG3	2:pd:160:ASP:HB3	1.85	0.59
1:qD:43:VAL:HG23	2:ra:173:PRO:HD3	1.85	0.59
1:xD:67:THR:HA	1:xD:70:GLN:HB2	1.83	0.59
2:xb:171:GLU:N	2:xb:171:GLU:OE1	2.36	0.59
1:yD:67:THR:HA	1:yD:70:GLN:HB2	1.83	0.59
2:0b:171:GLU:OE1	2:0b:171:GLU:N	2.35	0.59
1:5C:88:LEU:HA	1:5C:91:ILE:HD12	1.85	0.59
1:EC:88:LEU:HA	1:EC:91:ILE:HD12	1.85	0.59
1:GC:88:LEU:HA	1:GC:91:ILE:HD12	1.85	0.59
1:JD:67:THR:HA	1:JD:70:GLN:HB2	1.83	0.59
1:MC:88:LEU:HA	1:MC:91:ILE:HD12	1.85	0.59
2:Mb:171:GLU:N	2:Mb:171:GLU:OE1	2.35	0.59
1:PC:88:LEU:HA	1:PC:91:ILE:HD12	1.85	0.59
2:Pb:171:GLU:N	2:Pb:171:GLU:OE1	2.35	0.59
2:Rd:127:ARG:HG3	2:Rd:160:ASP:HB3	1.85	0.59
2:Rd:185:ILE:O	1:SB:56:LYS:NZ	2.33	0.59
1:VD:67:THR:HA	1:VD:70:GLN:HB2	1.83	0.59
1:XD:67:THR:HA	1:XD:70:GLN:HB2	1.83	0.59
2:Yd:127:ARG:HG3	2:Yd:160:ASP:HB3	1.85	0.59
1:gC:88:LEU:HA	1:gC:91:ILE:HD12	1.85	0.59
2:kd:127:ARG:HG3	2:kd:160:ASP:HB3	1.85	0.59
1:oC:88:LEU:HA	1:oC:91:ILE:HD12	1.85	0.59
1:pC:88:LEU:HA	1:pC:91:ILE:HD12	1.85	0.59
1:0C:88:LEU:HA	1:0C:91:ILE:HD12	1.85	0.59
2:3b:171:GLU:OE1	2:3b:171:GLU:N	2.35	0.59
1:7C:88:LEU:HA	1:7C:91:ILE:HD12	1.85	0.59
2:Cb:118:GLU:OE2	2:Uc:134:ARG:NH2	2.31	0.59
2:Jb:117:TYR:HB2	2:Vc:164:VAL:HG22	1.84	0.59
2:Kd:127:ARG:HG3	2:Kd:160:ASP:HB3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Od:127:ARG:HG3	2:Od:160:ASP:HB3	1.85	0.59
1:UC:88:LEU:HA	1:UC:91:ILE:HD12	1.85	0.59
1:YC:88:LEU:HA	1:YC:91:ILE:HD12	1.85	0.59
2:Yb:171:GLU:OE1	2:Yb:171:GLU:N	2.36	0.59
2:gb:118:GLU:OE2	2:jc:134:ARG:NH2	2.31	0.59
2:mb:171:GLU:OE1	2:mb:171:GLU:N	2.35	0.59
1:wC:88:LEU:HA	1:wC:91:ILE:HD12	1.85	0.59
2:yd:127:ARG:HG3	2:yd:160:ASP:HB3	1.85	0.59
1:6C:88:LEU:HA	1:6C:91:ILE:HD12	1.85	0.59
2:Bc:195:ILE:HG12	1:GC:62:ILE:HG21	1.84	0.59
1:CC:88:LEU:HA	1:CC:91:ILE:HD12	1.85	0.59
2:Db:171:GLU:OE1	2:Db:171:GLU:N	2.36	0.59
1:EC:62:ILE:HG21	2:fc:195:ILE:HG12	1.85	0.59
1:FC:88:LEU:HA	1:FC:91:ILE:HD12	1.85	0.59
2:Hd:127:ARG:HG3	2:Hd:160:ASP:HB3	1.85	0.59
1:OD:67:THR:HA	1:OD:70:GLN:HB2	1.83	0.59
2:Xd:127:ARG:HG3	2:Xd:160:ASP:HB3	1.85	0.59
2:Zd:127:ARG:HG3	2:Zd:160:ASP:HB3	1.85	0.59
2:ab:171:GLU:OE1	2:ab:171:GLU:N	2.36	0.59
1:bC:88:LEU:HA	1:bC:91:ILE:HD12	1.85	0.59
2:bd:127:ARG:HG3	2:bd:160:ASP:HB3	1.85	0.59
2:gd:127:ARG:HG3	2:gd:160:ASP:HB3	1.85	0.59
2:id:127:ARG:HG3	2:id:160:ASP:HB3	1.85	0.59
1:jC:88:LEU:HA	1:jC:91:ILE:HD12	1.85	0.59
1:mC:88:LEU:HA	1:mC:91:ILE:HD12	1.85	0.59
2:oa:118:GLU:OE1	2:pa:134:ARG:NH2	2.34	0.59
2:7d:127:ARG:HG3	2:7d:160:ASP:HB3	1.85	0.59
2:Ab:171:GLU:OE1	2:Ab:171:GLU:N	2.35	0.59
1:aC:88:LEU:HA	1:aC:91:ILE:HD12	1.85	0.59
2:nd:127:ARG:HG3	2:nd:160:ASP:HB3	1.85	0.59
1:sC:88:LEU:HA	1:sC:91:ILE:HD12	1.85	0.59
1:uC:88:LEU:HA	1:uC:91:ILE:HD12	1.85	0.59
2:vb:171:GLU:OE1	2:vb:171:GLU:N	2.35	0.59
2:3d:127:ARG:HG3	2:3d:160:ASP:HB3	1.85	0.59
2:Ld:127:ARG:HG3	2:Ld:160:ASP:HB3	1.85	0.59
2:Qd:185:ILE:O	1:RB:56:LYS:NZ	2.33	0.59
2:Ud:127:ARG:HG3	2:Ud:160:ASP:HB3	1.85	0.59
2:pa:117:TYR:HB2	2:qa:164:VAL:HG22	1.85	0.59
2:Ad:127:ARG:HG3	2:Ad:160:ASP:HB3	1.85	0.58
2:Ic:134:ARG:NH2	2:lb:118:GLU:OE2	2.31	0.58
1:NC:88:LEU:HA	1:NC:91:ILE:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Sc:134:ARG:NH2	2:wb:118:GLU:OE2	2.31	0.58
1:mD:67:THR:HA	1:mD:70:GLN:HB2	1.83	0.58
2:zd:127:ARG:HG3	2:zd:160:ASP:HB3	1.85	0.58
1:1C:88:LEU:HA	1:1C:91:ILE:HD12	1.85	0.58
2:4d:127:ARG:HG3	2:4d:160:ASP:HB3	1.85	0.58
2:5b:171:GLU:N	2:5b:171:GLU:OE1	2.35	0.58
2:5c:134:ARG:NH2	1:FB:92:GLU:OE2	2.36	0.58
2:Cc:134:ARG:NH2	2:Kb:118:GLU:OE2	2.31	0.58
2:Ja:164:VAL:HG22	2:Na:117:TYR:HB2	1.85	0.58
1:oB:93:MET:HE2	2:tc:167:PRO:HD2	1.85	0.58
2:2b:118:GLU:OE2	2:mc:134:ARG:NH2	2.31	0.58
2:6c:167:PRO:HD2	1:7B:93:MET:HE2	1.85	0.58
2:Dc:134:ARG:NH2	2:Yb:118:GLU:OE2	2.31	0.58
1:PD:67:THR:HA	1:PD:70:GLN:HB2	1.83	0.58
1:SC:88:LEU:HA	1:SC:91:ILE:HD12	1.85	0.58
2:bb:118:GLU:OE2	2:yc:134:ARG:NH2	2.28	0.58
2:ed:127:ARG:HG3	2:ed:160:ASP:HB3	1.85	0.58
2:hd:185:ILE:O	1:iB:56:LYS:NZ	2.33	0.58
1:fC:88:LEU:HA	1:fC:91:ILE:HD12	1.85	0.58
2:ld:127:ARG:HG3	2:ld:160:ASP:HB3	1.85	0.58
2:md:127:ARG:HG3	2:md:160:ASP:HB3	1.85	0.58
2:pb:171:GLU:N	2:pb:171:GLU:OE1	2.35	0.58
2:rb:171:GLU:OE1	2:rb:171:GLU:N	2.35	0.58
2:wb:171:GLU:OE1	2:wb:171:GLU:N	2.35	0.58
2:xd:127:ARG:HG3	2:xd:160:ASP:HB3	1.85	0.58
2:6b:171:GLU:OE1	2:6b:171:GLU:N	2.36	0.58
2:Ad:134:ARG:HH22	2:lc:118:GLU:HG3	1.68	0.58
2:Bd:127:ARG:HG3	2:Bd:160:ASP:HB3	1.85	0.58
1:IA:70:GLN:O	1:IA:74:ARG:HG2	2.04	0.58
2:Ib:171:GLU:OE1	2:Ib:171:GLU:N	2.36	0.58
1:JC:88:LEU:HA	1:JC:91:ILE:HD12	1.85	0.58
2:Jd:127:ARG:HG3	2:Jd:160:ASP:HB3	1.85	0.58
1:cC:69:GLU:OE1	2:ec:139:LEU:HD11	2.04	0.58
1:dD:67:THR:HA	1:dD:70:GLN:HB2	1.83	0.58
1:kA:70:GLN:O	1:kA:74:ARG:HG2	2.04	0.58
2:od:127:ARG:HG3	2:od:160:ASP:HB3	1.85	0.58
2:td:127:ARG:HG3	2:td:160:ASP:HB3	1.85	0.58
2:uc:134:ARG:NH2	2:yb:118:GLU:OE2	2.31	0.58
2:6c:164:VAL:HG22	2:7b:117:TYR:HB2	1.85	0.58
1:7A:70:GLN:O	1:7A:74:ARG:HG2	2.04	0.58
2:Eb:171:GLU:N	2:Eb:171:GLU:OE1	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Lb:171:GLU:OE1	2:Lb:171:GLU:N	2.36	0.58
1:OA:70:GLN:O	1:OA:74:ARG:HG2	2.04	0.58
2:Pd:127:ARG:HG3	2:Pd:160:ASP:HB3	1.85	0.58
1:VC:88:LEU:HA	1:VC:91:ILE:HD12	1.85	0.58
1:WC:88:LEU:HA	1:WC:91:ILE:HD12	1.85	0.58
1:XA:70:GLN:O	1:XA:74:ARG:HG2	2.04	0.58
1:ZA:70:GLN:O	1:ZA:74:ARG:HG2	2.04	0.58
2:ab:118:GLU:OE2	2:vc:134:ARG:NH2	2.31	0.58
1:dC:88:LEU:HA	1:dC:91:ILE:HD12	1.85	0.58
1:eB:56:LYS:NZ	2:fd:185:ILE:O	2.35	0.58
1:gA:70:GLN:O	1:gA:74:ARG:HG2	2.04	0.58
2:jb:171:GLU:OE1	2:jb:171:GLU:N	2.35	0.58
1:nC:88:LEU:HA	1:nC:91:ILE:HD12	1.85	0.58
1:rA:70:GLN:O	1:rA:74:ARG:HG2	2.04	0.58
1:xC:88:LEU:HA	1:xC:91:ILE:HD12	1.85	0.58
2:zb:171:GLU:OE1	2:zb:171:GLU:N	2.35	0.58
2:1d:127:ARG:HG3	2:1d:160:ASP:HB3	1.85	0.58
2:6b:117:TYR:HB2	2:Nc:164:VAL:HG22	1.85	0.58
2:Ad:185:ILE:O	1:lB:56:LYS:NZ	2.31	0.58
1:BB:93:MET:HE2	2:Lc:167:PRO:HD2	1.86	0.58
1:BC:88:LEU:HA	1:BC:91:ILE:HD12	1.85	0.58
1:DC:88:LEU:HA	1:DC:91:ILE:HD12	1.85	0.58
1:HC:88:LEU:HA	1:HC:91:ILE:HD12	1.85	0.58
2:Qd:127:ARG:HG3	2:Qd:160:ASP:HB3	1.85	0.58
2:Td:127:ARG:HG3	2:Td:160:ASP:HB3	1.85	0.58
2:Vb:171:GLU:OE1	2:Vb:171:GLU:N	2.35	0.58
2:Vd:127:ARG:HG3	2:Vd:160:ASP:HB3	1.85	0.58
2:Wb:171:GLU:OE1	2:Wb:171:GLU:N	2.36	0.58
2:bc:134:ARG:NH2	2:ub:118:GLU:OE2	2.32	0.58
1:cC:88:LEU:HA	1:cC:91:ILE:HD12	1.85	0.58
2:cd:127:ARG:HG3	2:cd:160:ASP:HB3	1.85	0.58
2:gd:185:ILE:O	1:hB:56:LYS:NZ	2.33	0.58
1:tC:88:LEU:HA	1:tC:91:ILE:HD12	1.85	0.58
1:yC:88:LEU:HA	1:yC:91:ILE:HD12	1.85	0.58
2:2d:127:ARG:HG3	2:2d:160:ASP:HB3	1.85	0.58
2:3b:118:GLU:OE2	2:lc:134:ARG:NH2	2.31	0.58
1:4C:88:LEU:HA	1:4C:91:ILE:HD12	1.85	0.58
1:6A:70:GLN:O	1:6A:74:ARG:HG2	2.04	0.58
2:6d:127:ARG:HG3	2:6d:160:ASP:HB3	1.85	0.58
2:Fd:127:ARG:HG3	2:Fd:160:ASP:HB3	1.85	0.58
2:Gd:127:ARG:HG3	2:Gd:160:ASP:HB3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HA:70:GLN:O	1:HA:74:ARG:HG2	2.04	0.58
2:Rc:164:VAL:HG22	2:pb:117:TYR:HB2	1.84	0.58
1:WD:67:THR:HA	1:WD:70:GLN:HB2	1.83	0.58
2:db:171:GLU:OE1	2:db:171:GLU:N	2.35	0.58
2:hd:127:ARG:HG3	2:hd:160:ASP:HB3	1.85	0.58
1:vC:88:LEU:HA	1:vC:91:ILE:HD12	1.85	0.58
2:wd:127:ARG:HG3	2:wd:160:ASP:HB3	1.85	0.58
2:4a:118:GLU:OE1	2:Pa:134:ARG:NH2	2.35	0.58
1:AC:88:LEU:HA	1:AC:91:ILE:HD12	1.85	0.58
2:Cd:127:ARG:HG3	2:Cd:160:ASP:HB3	1.85	0.58
1:KC:88:LEU:HA	1:KC:91:ILE:HD12	1.85	0.58
1:QC:50:LEU:HD12	1:QC:54:LEU:HD13	1.86	0.58
2:Tb:171:GLU:OE1	2:Tb:171:GLU:N	2.35	0.58
2:Tc:134:ARG:NH2	2:Vb:118:GLU:OE2	2.32	0.58
2:cb:171:GLU:N	2:cb:171:GLU:OE1	2.35	0.58
1:hC:50:LEU:HD12	1:hC:54:LEU:HD13	1.86	0.58
1:jA:70:GLN:O	1:jA:74:ARG:HG2	2.04	0.58
1:nA:70:GLN:O	1:nA:74:ARG:HG2	2.04	0.58
1:uA:70:GLN:O	1:uA:74:ARG:HG2	2.04	0.58
2:ud:127:ARG:HG3	2:ud:160:ASP:HB3	1.85	0.58
1:CA:70:GLN:O	1:CA:74:ARG:HG2	2.04	0.58
2:Cd:185:ILE:O	1:DB:56:LYS:NZ	2.33	0.58
2:Ed:127:ARG:HG3	2:Ed:160:ASP:HB3	1.85	0.58
2:Md:127:ARG:HG3	2:Md:160:ASP:HB3	1.85	0.58
1:UA:70:GLN:O	1:UA:74:ARG:HG2	2.04	0.58
2:Ub:171:GLU:N	2:Ub:171:GLU:OE1	2.35	0.58
2:dc:171:GLU:HG2	1:fB:93:MET:HE3	1.86	0.58
2:eb:171:GLU:N	2:eb:171:GLU:OE1	2.35	0.58
2:jd:127:ARG:HG3	2:jd:160:ASP:HB3	1.85	0.58
1:lC:88:LEU:HA	1:lC:91:ILE:HD12	1.85	0.58
1:rC:88:LEU:HA	1:rC:91:ILE:HD12	1.85	0.58
2:sb:171:GLU:N	2:sb:171:GLU:OE1	2.35	0.58
2:sd:127:ARG:HG3	2:sd:160:ASP:HB3	1.85	0.58
1:6C:50:LEU:HD12	1:6C:54:LEU:HD13	1.86	0.57
1:BC:50:LEU:HD12	1:BC:54:LEU:HD13	1.86	0.57
2:Fb:171:GLU:OE1	2:Fb:171:GLU:N	2.35	0.57
1:IC:88:LEU:HA	1:IC:91:ILE:HD12	1.85	0.57
1:MA:97:TYR:OH	2:Na:174:VAL:HG22	2.04	0.57
2:Ud:185:ILE:O	1:VB:56:LYS:NZ	2.33	0.57
1:bA:70:GLN:O	1:bA:74:ARG:HG2	2.04	0.57
2:bb:171:GLU:OE1	2:bb:171:GLU:N	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cA:70:GLN:O	1:cA:74:ARG:HG2	2.04	0.57
2:ib:171:GLU:OE1	2:ib:171:GLU:N	2.35	0.57
1:jC:50:LEU:HD12	1:jC:54:LEU:HD13	1.86	0.57
1:mA:70:GLN:O	1:mA:74:ARG:HG2	2.04	0.57
1:qA:70:GLN:O	1:qA:74:ARG:HG2	2.04	0.57
2:qd:127:ARG:HG3	2:qd:160:ASP:HB3	1.85	0.57
1:0C:50:LEU:HD12	1:0C:54:LEU:HD13	1.86	0.57
1:2A:70:GLN:O	1:2A:74:ARG:HG2	2.04	0.57
1:3C:88:LEU:HA	1:3C:91:ILE:HD12	1.85	0.57
1:7D:36:PHE:N	1:QD:38:TYR:HH	2.02	0.57
2:Id:127:ARG:HG3	2:Id:160:ASP:HB3	1.85	0.57
2:Kb:171:GLU:OE1	2:Kb:171:GLU:N	2.35	0.57
1:UC:50:LEU:HD12	1:UC:54:LEU:HD13	1.86	0.57
1:bC:50:LEU:HD12	1:bC:54:LEU:HD13	1.86	0.57
1:oC:50:LEU:HD12	1:oC:54:LEU:HD13	1.86	0.57
1:tB:93:MET:HE3	2:zc:171:GLU:HG2	1.86	0.57
1:tC:50:LEU:HD12	1:tC:54:LEU:HD13	1.86	0.57
1:zA:70:GLN:O	1:zA:74:ARG:HG2	2.04	0.57
2:0d:127:ARG:HG3	2:0d:160:ASP:HB3	1.85	0.57
2:4b:171:GLU:OE1	2:4b:171:GLU:N	2.35	0.57
2:Hb:171:GLU:N	2:Hb:171:GLU:OE1	2.35	0.57
1:LC:88:LEU:HA	1:LC:91:ILE:HD12	1.85	0.57
1:MC:50:LEU:HD12	1:MC:54:LEU:HD13	1.86	0.57
2:Mb:118:GLU:OE2	2:Oc:134:ARG:NH2	2.31	0.57
2:Nd:127:ARG:HG3	2:Nd:160:ASP:HB3	1.85	0.57
1:OC:50:LEU:HD12	1:OC:54:LEU:HD13	1.86	0.57
1:PA:70:GLN:O	1:PA:74:ARG:HG2	2.04	0.57
2:Rb:171:GLU:OE1	2:Rb:171:GLU:N	2.36	0.57
1:kC:50:LEU:HD12	1:kC:54:LEU:HD13	1.86	0.57
2:yb:171:GLU:OE1	2:yb:171:GLU:N	2.35	0.57
2:3c:134:ARG:NH2	2:Ib:118:GLU:OE2	2.31	0.57
1:EA:70:GLN:O	1:EA:74:ARG:HG2	2.04	0.57
1:FC:50:LEU:HD12	1:FC:54:LEU:HD13	1.86	0.57
1:GC:50:LEU:HD12	1:GC:54:LEU:HD13	1.86	0.57
1:LA:70:GLN:O	1:LA:74:ARG:HG2	2.04	0.57
2:Ob:171:GLU:OE1	2:Ob:171:GLU:N	2.35	0.57
2:Sd:127:ARG:HG3	2:Sd:160:ASP:HB3	1.85	0.57
1:VA:70:GLN:O	1:VA:74:ARG:HG2	2.04	0.57
1:WA:70:GLN:O	1:WA:74:ARG:HG2	2.04	0.57
2:kb:171:GLU:N	2:kb:171:GLU:OE1	2.35	0.57
2:rd:127:ARG:HG3	2:rd:160:ASP:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ud:185:ILE:O	1:vB:56:LYS:NZ	2.33	0.57
1:vC:50:LEU:HD12	1:vC:54:LEU:HD13	1.86	0.57
1:zC:88:LEU:HA	1:zC:91:ILE:HD12	1.85	0.57
2:Dd:127:ARG:HG3	2:Dd:160:ASP:HB3	1.85	0.57
2:Gc:147:ALA:O	2:Gc:151:ILE:HD12	2.05	0.57
1:QB:93:MET:HE3	2:qc:171:GLU:HG2	1.85	0.57
1:VC:50:LEU:HD12	1:VC:54:LEU:HD13	1.86	0.57
2:Vd:185:ILE:O	1:WB:56:LYS:NZ	2.33	0.57
2:Wd:127:ARG:HG3	2:Wd:160:ASP:HB3	1.85	0.57
1:dA:70:GLN:O	1:dA:74:ARG:HG2	2.04	0.57
2:nb:171:GLU:OE1	2:nb:171:GLU:N	2.35	0.57
1:qC:50:LEU:HD12	1:qC:54:LEU:HD13	1.86	0.57
1:rC:50:LEU:HD12	1:rC:54:LEU:HD13	1.86	0.57
1:sC:50:LEU:HD12	1:sC:54:LEU:HD13	1.86	0.57
1:2C:50:LEU:HD12	1:2C:54:LEU:HD13	1.86	0.57
2:3c:147:ALA:O	2:3c:151:ILE:HD12	2.05	0.57
2:Cc:147:ALA:O	2:Cc:151:ILE:HD12	2.05	0.57
1:DC:50:LEU:HD12	1:DC:54:LEU:HD13	1.86	0.57
1:NA:70:GLN:O	1:NA:74:ARG:HG2	2.04	0.57
2:Tc:147:ALA:O	2:Tc:151:ILE:HD12	2.05	0.57
1:XC:88:LEU:HA	1:XC:91:ILE:HD12	1.85	0.57
1:bD:43:VAL:HG23	2:ca:173:PRO:HD3	1.85	0.57
2:bc:167:PRO:HD2	1:uB:93:MET:HE2	1.86	0.57
2:cc:147:ALA:O	2:cc:151:ILE:HD12	2.05	0.57
2:dd:127:ARG:HG3	2:dd:160:ASP:HB3	1.85	0.57
2:fd:127:ARG:HG3	2:fd:160:ASP:HB3	1.85	0.57
1:vA:70:GLN:O	1:vA:74:ARG:HG2	2.04	0.57
2:vd:127:ARG:HG3	2:vd:160:ASP:HB3	1.85	0.57
1:wC:50:LEU:HD12	1:wC:54:LEU:HD13	1.86	0.57
1:1A:70:GLN:O	1:1A:74:ARG:HG2	2.04	0.57
2:1b:118:GLU:OE2	2:gc:134:ARG:NH2	2.31	0.57
2:Ac:147:ALA:O	2:Ac:151:ILE:HD12	2.05	0.57
2:Gc:134:ARG:NH2	2:Lb:118:GLU:OE2	2.31	0.57
1:IC:50:LEU:HD12	1:IC:54:LEU:HD13	1.86	0.57
2:Vc:147:ALA:O	2:Vc:151:ILE:HD12	2.05	0.57
2:aa:117:TYR:HB2	2:ba:164:VAL:HG22	1.87	0.57
1:cC:50:LEU:HD12	1:cC:54:LEU:HD13	1.86	0.57
2:eb:117:TYR:HB2	2:xc:164:VAL:HG22	1.85	0.57
2:ec:147:ALA:O	2:ec:151:ILE:HD12	2.05	0.57
2:gc:147:ALA:O	2:gc:151:ILE:HD12	2.05	0.57
1:mC:50:LEU:HD12	1:mC:54:LEU:HD13	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nc:147:ALA:O	2:nc:151:ILE:HD12	2.05	0.57
2:oc:147:ALA:O	2:oc:151:ILE:HD12	2.05	0.57
2:uc:147:ALA:O	2:uc:151:ILE:HD12	2.05	0.57
1:wA:70:GLN:O	1:wA:74:ARG:HG2	2.04	0.57
2:0d:185:ILE:O	1:1B:56:LYS:NZ	2.30	0.57
1:5A:70:GLN:O	1:5A:74:ARG:HG2	2.04	0.57
2:7c:147:ALA:O	2:7c:151:ILE:HD12	2.05	0.57
1:BA:70:GLN:O	1:BA:74:ARG:HG2	2.04	0.57
1:DA:70:GLN:O	1:DA:74:ARG:HG2	2.04	0.57
1:EC:50:LEU:HD12	1:EC:54:LEU:HD13	1.86	0.57
1:FA:70:GLN:O	1:FA:74:ARG:HG2	2.04	0.57
2:Hc:147:ALA:O	2:Hc:151:ILE:HD12	2.05	0.57
1:KA:70:GLN:O	1:KA:74:ARG:HG2	2.04	0.57
1:PC:50:LEU:HD12	1:PC:54:LEU:HD13	1.86	0.57
1:YC:50:LEU:HD12	1:YC:54:LEU:HD13	1.86	0.57
1:ZC:88:LEU:HA	1:ZC:91:ILE:HD12	1.85	0.57
1:aC:50:LEU:HD12	1:aC:54:LEU:HD13	1.86	0.57
1:pA:70:GLN:O	1:pA:74:ARG:HG2	2.04	0.57
1:sA:70:GLN:O	1:sA:74:ARG:HG2	2.04	0.57
1:tA:70:GLN:O	1:tA:74:ARG:HG2	2.04	0.57
2:5c:167:PRO:HD2	1:FB:93:MET:HE2	1.87	0.57
1:AA:70:GLN:O	1:AA:74:ARG:HG2	2.04	0.57
2:Bb:117:TYR:HB2	2:Lc:164:VAL:HG22	1.86	0.57
2:Bc:147:ALA:O	2:Bc:151:ILE:HD12	2.05	0.57
1:SC:50:LEU:HD12	1:SC:54:LEU:HD13	1.86	0.57
2:dc:147:ALA:O	2:dc:151:ILE:HD12	2.05	0.57
1:fC:50:LEU:HD12	1:fC:54:LEU:HD13	1.86	0.57
1:hA:70:GLN:O	1:hA:74:ARG:HG2	2.04	0.57
2:lb:171:GLU:OE1	2:lb:171:GLU:N	2.36	0.57
2:tc:147:ALA:O	2:tc:151:ILE:HD12	2.05	0.57
1:0A:70:GLN:O	1:0A:74:ARG:HG2	2.04	0.57
1:3A:70:GLN:O	1:3A:74:ARG:HG2	2.04	0.57
1:AD:36:PHE:N	1:ID:38:TYR:HH	2.03	0.57
2:Kd:185:ILE:O	1:LB:56:LYS:NZ	2.33	0.57
1:LC:50:LEU:HD12	1:LC:54:LEU:HD13	1.86	0.57
2:Lc:147:ALA:O	2:Lc:151:ILE:HD12	2.05	0.57
1:MA:70:GLN:O	1:MA:74:ARG:HG2	2.04	0.57
1:QA:70:GLN:O	1:QA:74:ARG:HG2	2.04	0.57
1:RA:70:GLN:O	1:RA:74:ARG:HG2	2.04	0.57
2:Sc:147:ALA:O	2:Sc:151:ILE:HD12	2.05	0.57
2:Uc:147:ALA:O	2:Uc:151:ILE:HD12	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Wc:147:ALA:O	2:Wc:151:ILE:HD12	2.05	0.57
2:bc:147:ALA:O	2:bc:151:ILE:HD12	2.05	0.57
2:cd:185:ILE:O	1:dB:56:LYS:NZ	2.33	0.57
1:yA:70:GLN:O	1:yA:74:ARG:HG2	2.04	0.57
1:4C:50:LEU:HD12	1:4C:54:LEU:HD13	1.86	0.56
2:Jc:147:ALA:O	2:Jc:151:ILE:HD12	2.05	0.56
2:Jd:134:ARG:HH22	2:Kc:118:GLU:HG3	1.70	0.56
2:Xc:147:ALA:O	2:Xc:151:ILE:HD12	2.05	0.56
1:fA:70:GLN:O	1:fA:74:ARG:HG2	2.04	0.56
2:fc:147:ALA:O	2:fc:151:ILE:HD12	2.05	0.56
1:lA:70:GLN:O	1:lA:74:ARG:HG2	2.04	0.56
1:lC:50:LEU:HD12	1:lC:54:LEU:HD13	1.86	0.56
2:vc:147:ALA:O	2:vc:151:ILE:HD12	2.05	0.56
2:xc:147:ALA:O	2:xc:151:ILE:HD12	2.05	0.56
1:zC:50:LEU:HD12	1:zC:54:LEU:HD13	1.86	0.56
2:zc:147:ALA:O	2:zc:151:ILE:HD12	2.05	0.56
2:2c:134:ARG:NH2	2:hb:118:GLU:OE2	2.31	0.56
1:3D:69:GLU:HG2	1:4A:79:HIS:HE1	1.69	0.56
2:3a:118:GLU:CD	2:4a:134:ARG:HH22	2.12	0.56
1:4A:70:GLN:O	1:4A:74:ARG:HG2	2.04	0.56
1:AC:50:LEU:HD12	1:AC:54:LEU:HD13	1.86	0.56
1:JC:50:LEU:HD12	1:JC:54:LEU:HD13	1.86	0.56
1:RC:50:LEU:HD12	1:RC:54:LEU:HD13	1.86	0.56
1:UB:56:LYS:NZ	2:Yd:185:ILE:O	2.33	0.56
1:XC:50:LEU:HD12	1:XC:54:LEU:HD13	1.86	0.56
1:YA:70:GLN:O	1:YA:74:ARG:HG2	2.04	0.56
2:Zc:147:ALA:O	2:Zc:151:ILE:HD12	2.05	0.56
1:aA:70:GLN:O	1:aA:74:ARG:HG2	2.04	0.56
1:hC:88:LEU:HA	1:hC:91:ILE:HD12	1.85	0.56
1:sD:62:ILE:HG21	2:ta:195:ILE:HA	1.87	0.56
2:0c:147:ALA:O	2:0c:151:ILE:HD12	2.05	0.56
1:1B:69:GLU:HA	1:1B:72:ILE:HG12	1.88	0.56
2:4c:147:ALA:O	2:4c:151:ILE:HD12	2.05	0.56
2:7c:134:ARG:NH2	2:Nb:118:GLU:OE2	2.31	0.56
1:CC:50:LEU:HD12	1:CC:54:LEU:HD13	1.86	0.56
2:Dc:147:ALA:O	2:Dc:151:ILE:HD12	2.05	0.56
2:Ed:143:LEU:HD11	1:FB:63:ILE:HB	1.87	0.56
2:Fc:147:ALA:O	2:Fc:151:ILE:HD12	2.05	0.56
1:GA:70:GLN:O	1:GA:74:ARG:HG2	2.04	0.56
2:Gb:171:GLU:OE1	2:Gb:171:GLU:N	2.35	0.56
1:IB:69:GLU:HA	1:IB:72:ILE:HG12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JA:70:GLN:O	1:JA:74:ARG:HG2	2.04	0.56
2:Kc:147:ALA:O	2:Kc:151:ILE:HD12	2.05	0.56
2:Mc:147:ALA:O	2:Mc:151:ILE:HD12	2.05	0.56
1:NB:69:GLU:HA	1:NB:72:ILE:HG12	1.88	0.56
1:NC:50:LEU:HD12	1:NC:54:LEU:HD13	1.86	0.56
2:Oc:147:ALA:O	2:Oc:151:ILE:HD12	2.05	0.56
2:Pc:147:ALA:O	2:Pc:151:ILE:HD12	2.05	0.56
1:QC:88:LEU:HA	1:QC:91:ILE:HD12	1.85	0.56
2:Qb:171:GLU:OE1	2:Qb:171:GLU:N	2.35	0.56
1:SA:70:GLN:O	1:SA:74:ARG:HG2	2.04	0.56
1:TA:70:GLN:O	1:TA:74:ARG:HG2	2.04	0.56
2:Yc:147:ALA:O	2:Yc:151:ILE:HD12	2.05	0.56
1:ZC:50:LEU:HD12	1:ZC:54:LEU:HD13	1.86	0.56
2:ac:147:ALA:O	2:ac:151:ILE:HD12	2.05	0.56
1:iA:70:GLN:O	1:iA:74:ARG:HG2	2.04	0.56
1:iC:50:LEU:HD12	1:iC:54:LEU:HD13	1.86	0.56
2:lc:147:ALA:O	2:lc:151:ILE:HD12	2.05	0.56
2:mc:147:ALA:O	2:mc:151:ILE:HD12	2.05	0.56
1:oA:70:GLN:O	1:oA:74:ARG:HG2	2.04	0.56
1:oB:69:GLU:HA	1:oB:72:ILE:HG12	1.88	0.56
1:rB:69:GLU:HA	1:rB:72:ILE:HG12	1.88	0.56
2:sc:147:ALA:O	2:sc:151:ILE:HD12	2.05	0.56
1:xA:70:GLN:O	1:xA:74:ARG:HG2	2.04	0.56
1:xC:50:LEU:HD12	1:xC:54:LEU:HD13	1.86	0.56
2:6c:147:ALA:O	2:6c:151:ILE:HD12	2.05	0.56
1:GB:69:GLU:HA	1:GB:72:ILE:HG12	1.88	0.56
1:QB:69:GLU:HA	1:QB:72:ILE:HG12	1.88	0.56
2:ed:185:ILE:O	1:gB:56:LYS:NZ	2.32	0.56
1:hB:69:GLU:HA	1:hB:72:ILE:HG12	1.88	0.56
2:hb:171:GLU:OE1	2:hb:171:GLU:N	2.35	0.56
1:kB:69:GLU:HA	1:kB:72:ILE:HG12	1.88	0.56
2:kc:147:ALA:O	2:kc:151:ILE:HD12	2.05	0.56
2:ob:171:GLU:OE1	2:ob:171:GLU:N	2.35	0.56
1:uC:50:LEU:HD12	1:uC:54:LEU:HD13	1.86	0.56
1:yC:50:LEU:HD12	1:yC:54:LEU:HD13	1.86	0.56
2:yc:147:ALA:O	2:yc:151:ILE:HD12	2.05	0.56
2:yd:185:ILE:O	1:zB:56:LYS:NZ	2.33	0.56
1:zB:69:GLU:HA	1:zB:72:ILE:HG12	1.88	0.56
1:1C:50:LEU:HD12	1:1C:54:LEU:HD13	1.86	0.56
1:3C:50:LEU:HD12	1:3C:54:LEU:HD13	1.86	0.56
1:6B:69:GLU:HA	1:6B:72:ILE:HG12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ec:147:ALA:O	2:Ec:151:ILE:HD12	2.05	0.56
2:Ic:147:ALA:O	2:Ic:151:ILE:HD12	2.05	0.56
1:KC:50:LEU:HD12	1:KC:54:LEU:HD13	1.86	0.56
1:LB:69:GLU:HA	1:LB:72:ILE:HG12	1.88	0.56
2:Nc:147:ALA:O	2:Nc:151:ILE:HD12	2.05	0.56
1:OB:69:GLU:HA	1:OB:72:ILE:HG12	1.88	0.56
2:Pc:171:GLU:HG2	1:qB:93:MET:HE3	1.87	0.56
1:XB:69:GLU:HA	1:XB:72:ILE:HG12	1.88	0.56
1:ZB:69:GLU:HA	1:ZB:72:ILE:HG12	1.88	0.56
1:eA:70:GLN:O	1:eA:74:ARG:HG2	2.04	0.56
1:gC:50:LEU:HD12	1:gC:54:LEU:HD13	1.86	0.56
1:jB:69:GLU:HA	1:jB:72:ILE:HG12	1.88	0.56
2:jc:147:ALA:O	2:jc:151:ILE:HD12	2.05	0.56
1:nB:69:GLU:HA	1:nB:72:ILE:HG12	1.88	0.56
2:lc:147:ALA:O	2:lc:151:ILE:HD12	2.05	0.56
2:Cb:171:GLU:OE1	2:Cb:171:GLU:N	2.35	0.56
1:HB:69:GLU:HA	1:HB:72:ILE:HG12	1.88	0.56
1:WC:50:LEU:HD12	1:WC:54:LEU:HD13	1.86	0.56
1:lB:69:GLU:HA	1:lB:72:ILE:HG12	1.88	0.56
2:wc:147:ALA:O	2:wc:151:ILE:HD12	2.05	0.56
1:OB:56:LYS:NZ	2:zd:185:ILE:O	2.32	0.56
1:5C:50:LEU:HD12	1:5C:54:LEU:HD13	1.86	0.56
1:7C:50:LEU:HD12	1:7C:54:LEU:HD13	1.86	0.56
1:AB:69:GLU:HA	1:AB:72:ILE:HG12	1.88	0.56
2:Hc:134:ARG:NH2	2:Ob:118:GLU:OE2	2.31	0.56
1:dC:50:LEU:HD12	1:dC:54:LEU:HD13	1.86	0.56
2:kb:118:GLU:OE2	2:nc:134:ARG:NH2	2.31	0.56
1:pC:50:LEU:HD12	1:pC:54:LEU:HD13	1.86	0.56
1:vB:69:GLU:HA	1:vB:72:ILE:HG12	1.88	0.56
1:3B:69:GLU:HA	1:3B:72:ILE:HG12	1.88	0.56
1:7A:79:HIS:HE1	1:TD:69:GLU:HG2	1.70	0.56
2:Ja:173:PRO:HD3	1:ND:43:VAL:HG23	1.88	0.56
2:Kb:136:ASN:HD21	2:Kb:193:ASP:HB2	1.71	0.56
1:YB:69:GLU:HA	1:YB:72:ILE:HG12	1.88	0.56
1:aB:69:GLU:HA	1:aB:72:ILE:HG12	1.88	0.56
2:rc:147:ALA:O	2:rc:151:ILE:HD12	2.05	0.56
2:ub:171:GLU:OE1	2:ub:171:GLU:N	2.35	0.56
1:OD:36:PHE:N	1:1D:38:TYR:HH	2.04	0.56
1:4B:69:GLU:HA	1:4B:72:ILE:HG12	1.88	0.56
2:Aa:164:VAL:HG22	2:ka:117:TYR:HB2	1.88	0.56
2:Cb:136:ASN:HD21	2:Cb:193:ASP:HB2	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HC:50:LEU:HD12	1:HC:54:LEU:HD13	1.86	0.56
2:Kc:134:ARG:NH2	2:Ub:118:GLU:OE2	2.31	0.56
2:Mb:136:ASN:HD21	2:Mb:193:ASP:HB2	1.71	0.56
2:Nb:171:GLU:OE1	2:Nb:171:GLU:N	2.35	0.56
2:Qb:136:ASN:HD21	2:Qb:193:ASP:HB2	1.71	0.56
2:Qc:147:ALA:O	2:Qc:151:ILE:HD12	2.05	0.56
2:Rc:147:ALA:O	2:Rc:151:ILE:HD12	2.05	0.56
2:hb:136:ASN:HD21	2:hb:193:ASP:HB2	1.71	0.56
2:hc:147:ALA:O	2:hc:151:ILE:HD12	2.05	0.56
1:mB:69:GLU:HA	1:mB:72:ILE:HG12	1.88	0.56
1:wB:69:GLU:HA	1:wB:72:ILE:HG12	1.88	0.56
2:yb:136:ASN:HD21	2:yb:193:ASP:HB2	1.71	0.56
2:0b:136:ASN:HD21	2:0b:193:ASP:HB2	1.71	0.56
2:4b:136:ASN:HD21	2:4b:193:ASP:HB2	1.71	0.56
1:DB:69:GLU:HA	1:DB:72:ILE:HG12	1.88	0.56
1:GA:79:HIS:CE1	1:HD:69:GLU:HG2	2.40	0.56
2:Ob:136:ASN:HD21	2:Ob:193:ASP:HB2	1.71	0.56
1:PB:69:GLU:HA	1:PB:72:ILE:HG12	1.88	0.56
2:Ra:117:TYR:HB2	2:Sa:164:VAL:HG22	1.89	0.56
1:eB:93:MET:HE3	2:xc:171:GLU:HG2	1.87	0.56
2:kb:136:ASN:HD21	2:kb:193:ASP:HB2	1.71	0.56
2:ob:136:ASN:HD21	2:ob:193:ASP:HB2	1.71	0.56
2:pc:147:ALA:O	2:pc:151:ILE:HD12	2.05	0.56
2:ub:136:ASN:HD21	2:ub:193:ASP:HB2	1.71	0.56
2:5c:147:ALA:O	2:5c:151:ILE:HD12	2.05	0.55
2:7b:136:ASN:HD21	2:7b:193:ASP:HB2	1.71	0.55
1:EB:69:GLU:HA	1:EB:72:ILE:HG12	1.88	0.55
2:Gb:136:ASN:HD21	2:Gb:193:ASP:HB2	1.71	0.55
2:Hb:164:VAL:HG22	2:Hd:117:TYR:HB2	1.89	0.55
2:Ib:136:ASN:HD21	2:Ib:193:ASP:HB2	1.71	0.55
2:Rb:136:ASN:HD21	2:Rb:193:ASP:HB2	1.71	0.55
1:TC:50:LEU:HD12	1:TC:54:LEU:HD13	1.86	0.55
2:ic:147:ALA:O	2:ic:151:ILE:HD12	2.05	0.55
2:la:117:TYR:HB2	2:ma:164:VAL:HG22	1.88	0.55
2:lb:136:ASN:HD21	2:lb:193:ASP:HB2	1.71	0.55
1:nC:50:LEU:HD12	1:nC:54:LEU:HD13	1.86	0.55
2:rb:136:ASN:HD21	2:rb:193:ASP:HB2	1.71	0.55
2:1b:164:VAL:HG22	2:1d:117:TYR:HB2	1.89	0.55
2:2a:164:VAL:HG22	2:5a:117:TYR:HB2	1.88	0.55
2:6b:136:ASN:HD21	2:6b:193:ASP:HB2	1.71	0.55
1:ED:69:GLU:HG2	1:FA:79:HIS:HE1	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JB:69:GLU:HA	1:JB:72:ILE:HG12	1.88	0.55
2:Nb:164:VAL:HG22	2:Nd:117:TYR:HB2	1.89	0.55
2:fa:174:VAL:HG22	1:iA:97:TYR:OH	2.07	0.55
2:gb:164:VAL:HG22	2:gd:117:TYR:HB2	1.89	0.55
2:jb:136:ASN:HD21	2:jb:193:ASP:HB2	1.71	0.55
2:nb:164:VAL:HG22	2:nd:117:TYR:HB2	1.89	0.55
1:xB:69:GLU:HA	1:xB:72:ILE:HG12	1.88	0.55
2:1b:171:GLU:OE1	2:1b:171:GLU:N	2.35	0.55
2:1d:185:ILE:O	1:xB:56:LYS:NZ	2.33	0.55
2:2b:164:VAL:HG22	2:2d:117:TYR:HB2	1.89	0.55
2:5a:164:VAL:HG22	2:Ga:117:TYR:HB2	1.89	0.55
2:5b:164:VAL:HG22	2:5d:117:TYR:HB2	1.89	0.55
2:7a:134:ARG:NH2	2:Ta:118:GLU:CD	2.64	0.55
2:7b:164:VAL:HG22	2:7d:117:TYR:HB2	1.89	0.55
1:WB:69:GLU:HA	1:WB:72:ILE:HG12	1.88	0.55
2:Wb:164:VAL:HG22	2:Wd:117:TYR:HB2	1.89	0.55
1:bB:69:GLU:HA	1:bB:72:ILE:HG12	1.88	0.55
1:dB:69:GLU:HA	1:dB:72:ILE:HG12	1.88	0.55
2:db:164:VAL:HG22	2:dd:117:TYR:HB2	1.89	0.55
1:eC:50:LEU:HD12	1:eC:54:LEU:HD13	1.86	0.55
1:fA:81:ASN:O	1:fA:85:GLU:HG2	2.07	0.55
2:gb:136:ASN:HD21	2:gb:193:ASP:HB2	1.71	0.55
1:hA:81:ASN:O	1:hA:85:GLU:HG2	2.07	0.55
2:ib:136:ASN:HD21	2:ib:193:ASP:HB2	1.71	0.55
2:mb:136:ASN:HD21	2:mb:193:ASP:HB2	1.71	0.55
2:pb:164:VAL:HG22	2:pd:117:TYR:HB2	1.89	0.55
2:qa:117:TYR:HB2	2:ra:164:VAL:HG22	1.88	0.55
2:qb:164:VAL:HG22	2:qd:117:TYR:HB2	1.89	0.55
1:0A:81:ASN:O	1:0A:85:GLU:HG2	2.07	0.55
2:1a:117:TYR:HB2	2:xa:164:VAL:HG22	1.89	0.55
2:3a:164:VAL:HG22	2:0a:117:TYR:HB2	1.89	0.55
1:6D:69:GLU:HG2	1:0A:79:HIS:CE1	2.41	0.55
2:Ab:136:ASN:HD21	2:Ab:193:ASP:HB2	1.71	0.55
1:BA:81:ASN:O	1:BA:85:GLU:HG2	2.07	0.55
1:BB:93:MET:HE3	2:Lc:171:GLU:HG2	1.88	0.55
1:CA:81:ASN:O	1:CA:85:GLU:HG2	2.07	0.55
2:Da:117:TYR:HB2	2:Ea:164:VAL:HG22	1.88	0.55
2:Eb:136:ASN:HD21	2:Eb:193:ASP:HB2	1.71	0.55
2:Gb:164:VAL:HG22	2:Gd:117:TYR:HB2	1.89	0.55
2:Ha:164:VAL:HG22	2:Ia:117:TYR:HB2	1.88	0.55
2:Hb:136:ASN:HD21	2:Hb:193:ASP:HB2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KB:69:GLU:HA	1:KB:72:ILE:HG12	1.88	0.55
1:MA:81:ASN:O	1:MA:85:GLU:HG2	2.07	0.55
2:Nb:136:ASN:HD21	2:Nb:193:ASP:HB2	1.71	0.55
1:QA:81:ASN:O	1:QA:85:GLU:HG2	2.07	0.55
1:TB:69:GLU:HA	1:TB:72:ILE:HG12	1.88	0.55
1:UB:69:GLU:HA	1:UB:72:ILE:HG12	1.88	0.55
2:Ub:164:VAL:HG22	2:Ud:117:TYR:HB2	1.89	0.55
2:Zb:136:ASN:HD21	2:Zb:193:ASP:HB2	1.71	0.55
1:eB:69:GLU:HA	1:eB:72:ILE:HG12	1.88	0.55
2:ib:164:VAL:HG22	2:id:117:TYR:HB2	1.89	0.55
1:qA:81:ASN:O	1:qA:85:GLU:HG2	2.07	0.55
1:tA:81:ASN:O	1:tA:85:GLU:HG2	2.07	0.55
1:uA:81:ASN:O	1:uA:85:GLU:HG2	2.07	0.55
2:xa:117:TYR:HB2	2:ya:164:VAL:HG22	1.89	0.55
2:1b:136:ASN:HD21	2:1b:193:ASP:HB2	1.71	0.55
1:2A:81:ASN:O	1:2A:85:GLU:HG2	2.07	0.55
2:2c:147:ALA:O	2:2c:151:ILE:HD12	2.05	0.55
2:3b:136:ASN:HD21	2:3b:193:ASP:HB2	1.71	0.55
1:HA:81:ASN:O	1:HA:85:GLU:HG2	2.07	0.55
2:Lb:136:ASN:HD21	2:Lb:193:ASP:HB2	1.71	0.55
2:Lb:164:VAL:HG22	2:Ld:117:TYR:HB2	1.89	0.55
2:Pb:136:ASN:HD21	2:Pb:193:ASP:HB2	1.71	0.55
1:SA:81:ASN:O	1:SA:85:GLU:HG2	2.07	0.55
2:Xb:136:ASN:HD21	2:Xb:193:ASP:HB2	1.71	0.55
1:jD:69:GLU:HG2	1:kA:79:HIS:CE1	2.40	0.55
1:nA:81:ASN:O	1:nA:85:GLU:HG2	2.07	0.55
2:nb:136:ASN:HD21	2:nb:193:ASP:HB2	1.71	0.55
1:pA:81:ASN:O	1:pA:85:GLU:HG2	2.07	0.55
2:qc:147:ALA:O	2:qc:151:ILE:HD12	2.05	0.55
2:vb:136:ASN:HD21	2:vb:193:ASP:HB2	1.71	0.55
1:5A:81:ASN:O	1:5A:85:GLU:HG2	2.07	0.55
2:6a:117:TYR:HB2	2:Oa:164:VAL:HG22	1.88	0.55
2:Db:136:ASN:HD21	2:Db:193:ASP:HB2	1.71	0.55
2:Ea:118:GLU:CD	2:Fa:134:ARG:HH22	2.09	0.55
1:RD:69:GLU:HG2	1:SA:79:HIS:CE1	2.41	0.55
2:Ua:164:VAL:HG22	2:Ya:117:TYR:HB2	1.89	0.55
1:VD:69:GLU:HG2	1:WA:79:HIS:CE1	2.41	0.55
2:Xb:171:GLU:N	2:Xb:171:GLU:OE1	2.35	0.55
2:bb:164:VAL:HG22	2:bd:117:TYR:HB2	1.89	0.55
1:gB:69:GLU:HA	1:gB:72:ILE:HG12	1.88	0.55
2:na:164:VAL:HG22	2:ra:117:TYR:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ob:164:VAL:HG22	2:od:117:TYR:HB2	1.89	0.55
1:tB:69:GLU:HA	1:tB:72:ILE:HG12	1.88	0.55
2:tb:118:GLU:CD	2:zc:134:ARG:HH12	2.15	0.55
2:va:117:TYR:HB2	2:wa:164:VAL:HG22	1.89	0.55
2:wb:136:ASN:HD21	2:wb:193:ASP:HB2	1.71	0.55
1:yB:69:GLU:HA	1:yB:72:ILE:HG12	1.88	0.55
2:zb:136:ASN:HD21	2:zb:193:ASP:HB2	1.71	0.55
2:zb:164:VAL:HG22	2:zd:117:TYR:HB2	1.89	0.55
1:3A:81:ASN:O	1:3A:85:GLU:HG2	2.07	0.55
2:6c:171:GLU:HG2	1:7B:93:MET:HE3	1.89	0.55
1:7B:69:GLU:HA	1:7B:72:ILE:HG12	1.88	0.55
1:PA:81:ASN:O	1:PA:85:GLU:HG2	2.07	0.55
2:Rb:164:VAL:HG22	2:Rd:117:TYR:HB2	1.89	0.55
1:cD:69:GLU:HG2	1:dA:79:HIS:CE1	2.40	0.55
2:eb:136:ASN:HD21	2:eb:193:ASP:HB2	1.71	0.55
2:ga:117:TYR:HB2	2:ha:164:VAL:HG22	1.89	0.55
1:mA:81:ASN:O	1:mA:85:GLU:HG2	2.07	0.55
1:7A:81:ASN:O	1:7A:85:GLU:HG2	2.07	0.55
1:BB:69:GLU:HA	1:BB:72:ILE:HG12	1.88	0.55
2:Ea:118:GLU:CD	2:Fa:134:ARG:NH2	2.65	0.55
1:FB:69:GLU:HA	1:FB:72:ILE:HG12	1.88	0.55
2:Ga:164:VAL:HG22	2:Ha:117:TYR:HB2	1.89	0.55
2:Ib:164:VAL:HG22	2:Id:117:TYR:HB2	1.89	0.55
2:Tb:136:ASN:HD21	2:Tb:193:ASP:HB2	1.71	0.55
2:Ua:117:TYR:HB2	2:Va:164:VAL:HG22	1.89	0.55
2:ec:118:GLU:HG3	2:fd:134:ARG:HH22	1.72	0.55
2:ja:117:TYR:HB2	2:ka:164:VAL:HG22	1.89	0.55
2:rb:164:VAL:HG22	2:rd:117:TYR:HB2	1.89	0.55
1:sB:56:LYS:NZ	2:wd:185:ILE:O	2.33	0.55
1:sB:69:GLU:HA	1:sB:72:ILE:HG12	1.88	0.55
1:0B:69:GLU:HA	1:0B:72:ILE:HG12	1.88	0.55
2:Pb:164:VAL:HG22	2:Pd:117:TYR:HB2	1.88	0.55
2:Rb:118:GLU:OE2	2:sc:134:ARG:NH2	2.31	0.55
2:Za:173:PRO:HD3	1:dD:43:VAL:HG23	1.89	0.55
2:Zb:171:GLU:OE1	2:Zb:171:GLU:N	2.35	0.55
1:gA:81:ASN:O	1:gA:85:GLU:HG2	2.07	0.55
1:2B:56:LYS:NZ	2:5d:185:ILE:O	2.33	0.55
1:2D:69:GLU:HG2	1:IA:79:HIS:CE1	2.40	0.55
2:3a:118:GLU:CD	2:4a:134:ARG:NH2	2.64	0.55
1:6A:81:ASN:O	1:6A:85:GLU:HG2	2.07	0.55
1:AA:81:ASN:O	1:AA:85:GLU:HG2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:81:ASN:O	1:FA:85:GLU:HG2	2.07	0.55
2:Fb:136:ASN:HD21	2:Fb:193:ASP:HB2	1.71	0.55
1:MB:69:GLU:HA	1:MB:72:ILE:HG12	1.88	0.55
1:RB:69:GLU:HA	1:RB:72:ILE:HG12	1.88	0.55
1:WD:43:VAL:HG23	2:Xa:173:PRO:HD3	1.89	0.55
2:Yb:136:ASN:HD21	2:Yb:193:ASP:HB2	1.71	0.55
1:iB:69:GLU:HA	1:iB:72:ILE:HG12	1.88	0.55
2:mb:164:VAL:HG22	2:md:117:TYR:HB2	1.88	0.55
1:sA:81:ASN:O	1:sA:85:GLU:HG2	2.07	0.55
2:sb:164:VAL:HG22	2:sd:117:TYR:HB2	1.89	0.55
1:vA:81:ASN:O	1:vA:85:GLU:HG2	2.07	0.55
1:2B:69:GLU:HA	1:2B:72:ILE:HG12	1.88	0.54
1:VA:81:ASN:O	1:VA:85:GLU:HG2	2.07	0.54
1:VB:69:GLU:HA	1:VB:72:ILE:HG12	1.88	0.54
1:fB:69:GLU:HA	1:fB:72:ILE:HG12	1.88	0.54
1:jA:81:ASN:O	1:jA:85:GLU:HG2	2.07	0.54
1:lA:81:ASN:O	1:lA:85:GLU:HG2	2.07	0.54
1:qB:69:GLU:HA	1:qB:72:ILE:HG12	1.88	0.54
1:0B:93:MET:HE3	2:kc:171:GLU:HG2	1.89	0.54
1:4A:81:ASN:O	1:4A:85:GLU:HG2	2.07	0.54
2:4c:195:ILE:HG12	1:AC:62:ILE:HG21	1.89	0.54
2:7c:173:PRO:HG3	1:NC:43:VAL:HG23	1.89	0.54
1:DA:81:ASN:O	1:DA:85:GLU:HG2	2.07	0.54
2:Fb:164:VAL:HG22	2:Fd:117:TYR:HB2	1.89	0.54
1:JB:93:MET:HE3	2:Vc:171:GLU:HG2	1.89	0.54
2:La:117:TYR:HB2	2:Ma:164:VAL:HG22	1.89	0.54
2:Rc:171:GLU:HG2	1:pB:93:MET:HE3	1.89	0.54
2:ab:136:ASN:HD21	2:ab:193:ASP:HB2	1.71	0.54
1:cA:81:ASN:O	1:cA:85:GLU:HG2	2.07	0.54
1:oA:81:ASN:O	1:oA:85:GLU:HG2	2.07	0.54
2:sb:136:ASN:HD21	2:sb:193:ASP:HB2	1.71	0.54
2:xd:185:ILE:O	1:yB:56:LYS:NZ	2.33	0.54
1:zA:81:ASN:O	1:zA:85:GLU:HG2	2.07	0.54
1:GA:81:ASN:O	1:GA:85:GLU:HG2	2.07	0.54
1:IA:81:ASN:O	1:IA:85:GLU:HG2	2.07	0.54
1:LA:81:ASN:O	1:LA:85:GLU:HG2	2.07	0.54
1:SB:69:GLU:HA	1:SB:72:ILE:HG12	1.88	0.54
2:Sa:117:TYR:HB2	2:Ta:164:VAL:HG22	1.89	0.54
2:Za:117:TYR:HB2	2:aa:164:VAL:HG22	1.89	0.54
1:eA:81:ASN:O	1:eA:85:GLU:HG2	2.07	0.54
2:pb:136:ASN:HD21	2:pb:193:ASP:HB2	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:rA:81:ASN:O	1:rA:85:GLU:HG2	2.07	0.54
1:wA:81:ASN:O	1:wA:85:GLU:HG2	2.07	0.54
2:3b:164:VAL:HG22	2:3d:117:TYR:HB2	1.89	0.54
2:4b:164:VAL:HG22	2:4d:117:TYR:HB2	1.89	0.54
2:5c:171:GLU:HG2	1:FB:93:MET:HE3	1.90	0.54
2:Ac:195:ILE:HG12	1:rC:62:ILE:HG21	1.89	0.54
2:Db:164:VAL:HG22	2:Dd:117:TYR:HB2	1.89	0.54
1:OA:81:ASN:O	1:OA:85:GLU:HG2	2.07	0.54
2:Qb:164:VAL:HG22	2:Qd:117:TYR:HB2	1.89	0.54
1:TA:81:ASN:O	1:TA:85:GLU:HG2	2.07	0.54
2:Wb:136:ASN:HD21	2:Wb:193:ASP:HB2	1.71	0.54
2:Xa:117:TYR:HB2	2:Ya:164:VAL:HG22	1.89	0.54
1:YA:81:ASN:O	1:YA:85:GLU:HG2	2.07	0.54
1:aA:81:ASN:O	1:aA:85:GLU:HG2	2.07	0.54
1:bB:93:MET:HE2	2:yc:167:PRO:HD2	1.89	0.54
2:bb:136:ASN:HD21	2:bb:193:ASP:HB2	1.71	0.54
1:cB:69:GLU:HA	1:cB:72:ILE:HG12	1.88	0.54
2:hb:164:VAL:HG22	2:hd:117:TYR:HB2	1.89	0.54
1:kA:81:ASN:O	1:kA:85:GLU:HG2	2.07	0.54
1:uD:43:VAL:HG23	2:va:173:PRO:HD3	1.89	0.54
1:3B:56:LYS:NZ	2:Od:185:ILE:O	2.33	0.54
2:6a:164:VAL:HG22	2:Pa:117:TYR:HB2	1.89	0.54
2:Aa:173:PRO:HD3	1:kD:43:VAL:HG23	1.89	0.54
2:Ab:164:VAL:HG22	2:Ad:117:TYR:HB2	1.88	0.54
1:EA:81:ASN:O	1:EA:85:GLU:HG2	2.07	0.54
2:Eb:164:VAL:HG22	2:Ed:117:TYR:HB2	1.89	0.54
2:Jb:136:ASN:HD21	2:Jb:193:ASP:HB2	1.71	0.54
1:RA:81:ASN:O	1:RA:85:GLU:HG2	2.07	0.54
1:SD:43:VAL:HG23	2:Ta:173:PRO:HD3	1.90	0.54
2:db:136:ASN:HD21	2:db:193:ASP:HB2	1.71	0.54
2:ha:117:TYR:HB2	2:ia:164:VAL:HG22	1.89	0.54
1:jD:43:VAL:HG23	2:ka:173:PRO:HD3	1.90	0.54
2:kb:164:VAL:HG22	2:kd:117:TYR:HB2	1.89	0.54
1:sA:79:HIS:CE1	1:wD:69:GLU:HG2	2.40	0.54
2:vb:164:VAL:HG22	2:vd:117:TYR:HB2	1.89	0.54
1:xA:81:ASN:O	1:xA:85:GLU:HG2	2.07	0.54
1:zC:47:LEU:HD12	1:zC:60:PHE:HB2	1.90	0.54
2:2a:117:TYR:HB2	2:la:164:VAL:HG22	1.89	0.54
1:6B:93:MET:HE3	2:Nc:171:GLU:HG2	1.88	0.54
1:BB:43:VAL:HG13	2:Fd:173:PRO:HG3	1.89	0.54
1:BC:47:LEU:HD12	1:BC:60:PHE:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CC:47:LEU:HD12	1:CC:60:PHE:HB2	1.90	0.54
1:CD:43:VAL:HG23	2:Da:173:PRO:HD3	1.90	0.54
1:LC:47:LEU:HD12	1:LC:60:PHE:HB2	1.90	0.54
2:Ob:164:VAL:HG22	2:Od:117:TYR:HB2	1.89	0.54
1:PC:47:LEU:HD12	1:PC:60:PHE:HB2	1.90	0.54
2:Qa:117:TYR:HB2	2:Ra:164:VAL:HG22	1.89	0.54
2:Rb:117:TYR:HB2	2:sc:164:VAL:HG22	1.90	0.54
2:Sb:164:VAL:HG22	2:Sd:117:TYR:HB2	1.89	0.54
2:Ub:136:ASN:HD21	2:Ub:193:ASP:HB2	1.71	0.54
1:XC:47:LEU:HD12	1:XC:60:PHE:HB2	1.90	0.54
1:ZC:47:LEU:HD12	1:ZC:60:PHE:HB2	1.90	0.54
1:bC:47:LEU:HD12	1:bC:60:PHE:HB2	1.90	0.54
2:bb:117:TYR:HB2	2:yc:164:VAL:HG22	1.88	0.54
1:mC:47:LEU:HD12	1:mC:60:PHE:HB2	1.90	0.54
2:qd:185:ILE:O	1:rB:56:LYS:NZ	2.33	0.54
2:sa:173:PRO:HD3	1:wD:43:VAL:HG23	1.89	0.54
1:tC:47:LEU:HD12	1:tC:60:PHE:HB2	1.90	0.54
2:wb:164:VAL:HG22	2:wd:117:TYR:HB2	1.89	0.54
2:xb:164:VAL:HG22	2:xd:117:TYR:HB2	1.89	0.54
1:4C:62:ILE:CG2	2:rc:195:ILE:HG12	2.29	0.54
2:5b:136:ASN:HD21	2:5b:193:ASP:HB2	1.71	0.54
1:6D:43:VAL:HG23	2:Oa:173:PRO:HD3	1.90	0.54
1:CB:69:GLU:HA	1:CB:72:ILE:HG12	1.88	0.54
2:Ca:117:TYR:HB2	2:Da:164:VAL:HG22	1.89	0.54
1:DD:69:GLU:HG2	1:EA:79:HIS:CE1	2.41	0.54
2:Db:117:TYR:HB2	2:Zc:164:VAL:HG22	1.90	0.54
2:Fc:134:ARG:NH2	2:ib:118:GLU:OE2	2.37	0.54
1:JA:81:ASN:O	1:JA:85:GLU:HG2	2.07	0.54
1:SC:47:LEU:HD12	1:SC:60:PHE:HB2	1.90	0.54
2:Va:117:TYR:HB2	2:Wa:164:VAL:HG22	1.89	0.54
1:fC:47:LEU:HD12	1:fC:60:PHE:HB2	1.90	0.54
2:fb:164:VAL:HG22	2:fd:117:TYR:HB2	1.89	0.54
1:iA:81:ASN:O	1:iA:85:GLU:HG2	2.07	0.54
1:jC:47:LEU:HD12	1:jC:60:PHE:HB2	1.90	0.54
2:ja:173:PRO:HD3	1:mD:43:VAL:HG23	1.90	0.54
1:ID:43:VAL:HG23	2:ma:173:PRO:HD3	1.90	0.54
2:lb:164:VAL:HG22	2:ld:117:TYR:HB2	1.89	0.54
2:tb:164:VAL:HG22	2:td:117:TYR:HB2	1.89	0.54
1:uB:69:GLU:HA	1:uB:72:ILE:HG12	1.88	0.54
1:vC:47:LEU:HD12	1:vC:60:PHE:HB2	1.90	0.54
1:vD:69:GLU:HG2	1:wA:79:HIS:CE1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:yD:43:VAL:HG23	2:za:173:PRO:HD3	1.90	0.54
2:0b:164:VAL:HG22	2:0d:117:TYR:HB2	1.89	0.54
1:1D:43:VAL:HG23	2:xa:173:PRO:HD3	1.90	0.54
2:6a:173:PRO:HD3	1:PD:43:VAL:HG23	1.90	0.54
2:6b:118:GLU:OE2	2:Nc:134:ARG:NH2	2.30	0.54
2:Bb:164:VAL:HG22	2:Bd:117:TYR:HB2	1.89	0.54
1:CD:69:GLU:HG2	1:DA:79:HIS:CE1	2.41	0.54
1:DC:47:LEU:HD12	1:DC:60:PHE:HB2	1.90	0.54
2:Dc:164:VAL:HG22	2:Yb:117:TYR:HB2	1.90	0.54
1:HC:47:LEU:HD12	1:HC:60:PHE:HB2	1.90	0.54
2:Jb:164:VAL:HG22	2:Jd:117:TYR:HB2	1.89	0.54
1:KD:43:VAL:HG23	2:La:173:PRO:HD3	1.90	0.54
2:Mb:164:VAL:HG22	2:Md:117:TYR:HB2	1.89	0.54
1:QC:47:LEU:HD12	1:QC:60:PHE:HB2	1.90	0.54
2:Sb:136:ASN:HD21	2:Sb:193:ASP:HB2	1.71	0.54
1:UC:47:LEU:HD12	1:UC:60:PHE:HB2	1.90	0.54
2:Ua:173:PRO:HD3	1:YD:43:VAL:HG23	1.90	0.54
2:Xc:164:VAL:HG22	2:vb:117:TYR:HB2	1.90	0.54
2:Yb:164:VAL:HG22	2:Yd:117:TYR:HB2	1.89	0.54
2:ab:117:TYR:HB2	2:vc:164:VAL:HG22	1.90	0.54
2:ab:164:VAL:HG22	2:ad:117:TYR:HB2	1.89	0.54
2:cc:164:VAL:HG22	2:xb:117:TYR:HB2	1.90	0.54
2:fb:136:ASN:HD21	2:fb:193:ASP:HB2	1.71	0.54
2:ja:164:VAL:HG22	2:ma:117:TYR:HB2	1.89	0.54
1:pC:47:LEU:HD12	1:pC:60:PHE:HB2	1.90	0.54
2:tb:136:ASN:HD21	2:tb:193:ASP:HB2	1.71	0.54
1:uC:47:LEU:HD12	1:uC:60:PHE:HB2	1.90	0.54
1:uD:69:GLU:HG2	1:vA:79:HIS:CE1	2.40	0.54
2:ub:164:VAL:HG22	2:ud:117:TYR:HB2	1.89	0.54
2:xb:136:ASN:HD21	2:xb:193:ASP:HB2	1.71	0.54
2:ya:117:TYR:HB2	2:za:164:VAL:HG22	1.89	0.54
1:1A:81:ASN:O	1:1A:85:GLU:HG2	2.07	0.54
2:1d:135:PHE:HD2	2:1d:193:ASP:HB2	1.73	0.54
1:5B:69:GLU:HA	1:5B:72:ILE:HG12	1.88	0.54
1:5C:47:LEU:HD12	1:5C:60:PHE:HB2	1.90	0.54
2:7d:173:PRO:HG3	1:QB:43:VAL:HG13	1.90	0.54
1:AC:47:LEU:HD12	1:AC:60:PHE:HB2	1.90	0.54
2:Cb:117:TYR:HB2	2:Uc:164:VAL:HG22	1.90	0.54
2:Cb:164:VAL:HG22	2:Cd:117:TYR:HB2	1.89	0.54
1:JC:47:LEU:HD12	1:JC:60:PHE:HB2	1.90	0.54
2:Ka:117:TYR:HB2	2:La:164:VAL:HG22	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Nd:135:PHE:HD2	2:Nd:193:ASP:HB2	1.73	0.54
2:Od:135:PHE:HD2	2:Od:193:ASP:HB2	1.73	0.54
2:Tc:164:VAL:HG22	2:Vb:117:TYR:HB2	1.90	0.54
2:Vb:164:VAL:HG22	2:Vd:117:TYR:HB2	1.89	0.54
2:Vd:135:PHE:HD2	2:Vd:193:ASP:HB2	1.73	0.54
1:WA:81:ASN:O	1:WA:85:GLU:HG2	2.07	0.54
2:Wa:117:TYR:HB2	2:Xa:164:VAL:HG22	1.89	0.54
1:XA:81:ASN:O	1:XA:85:GLU:HG2	2.07	0.54
1:ZA:81:ASN:O	1:ZA:85:GLU:HG2	2.07	0.54
2:Za:164:VAL:HG22	2:da:117:TYR:HB2	1.89	0.54
1:bD:36:PHE:N	1:cD:38:TYR:HH	2.05	0.54
1:cC:47:LEU:HD12	1:cC:60:PHE:HB2	1.90	0.54
2:ca:117:TYR:HB2	2:da:164:VAL:HG22	1.89	0.54
2:cd:135:PHE:HD2	2:cd:193:ASP:HB2	1.73	0.54
2:ed:171:GLU:OE1	1:gC:93:MET:HE3	2.07	0.54
1:hC:47:LEU:HD12	1:hC:60:PHE:HB2	1.90	0.54
1:nC:47:LEU:HD12	1:nC:60:PHE:HB2	1.90	0.54
1:pB:69:GLU:HA	1:pB:72:ILE:HG12	1.88	0.54
2:pc:195:ILE:HG12	1:sC:62:ILE:HG21	1.89	0.54
1:qC:47:LEU:HD12	1:qC:60:PHE:HB2	1.90	0.54
2:ua:117:TYR:HB2	2:va:164:VAL:HG22	1.89	0.54
1:xC:47:LEU:HD12	1:xC:60:PHE:HB2	1.90	0.54
1:2C:47:LEU:HD12	1:2C:60:PHE:HB2	1.90	0.54
1:2D:43:VAL:HG23	2:Ia:173:PRO:HD3	1.89	0.54
1:3C:47:LEU:HD12	1:3C:60:PHE:HB2	1.90	0.54
2:3a:173:PRO:HD3	1:OD:43:VAL:HG23	1.90	0.54
1:6C:47:LEU:HD12	1:6C:60:PHE:HB2	1.90	0.54
2:6b:164:VAL:HG22	2:6d:117:TYR:HB2	1.89	0.54
2:Bb:136:ASN:HD21	2:Bb:193:ASP:HB2	1.71	0.54
1:RD:43:VAL:HG23	2:Sa:173:PRO:HD3	1.90	0.54
2:Tb:164:VAL:HG22	2:Td:117:TYR:HB2	1.89	0.54
1:VC:47:LEU:HD12	1:VC:60:PHE:HB2	1.90	0.54
2:Vb:136:ASN:HD21	2:Vb:193:ASP:HB2	1.71	0.54
2:cb:136:ASN:HD21	2:cb:193:ASP:HB2	1.71	0.54
2:cb:164:VAL:HG22	2:cd:117:TYR:HB2	1.89	0.54
1:eD:73:GLU:HG2	2:ga:138:THR:HG22	1.90	0.54
2:eb:164:VAL:HG22	2:ed:117:TYR:HB2	1.89	0.54
2:fd:135:PHE:HD2	2:fd:193:ASP:HB2	1.73	0.54
2:gb:117:TYR:HB2	2:jc:164:VAL:HG22	1.90	0.54
2:kd:135:PHE:HD2	2:kd:193:ASP:HB2	1.73	0.54
2:oc:195:ILE:HG12	1:zC:62:ILE:HG21	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pd:135:PHE:HD2	2:pd:193:ASP:HB2	1.73	0.54
2:zd:135:PHE:HD2	2:zd:193:ASP:HB2	1.73	0.54
2:2d:135:PHE:HD2	2:2d:193:ASP:HB2	1.73	0.53
2:5d:135:PHE:HD2	2:5d:193:ASP:HB2	1.73	0.53
2:Fd:135:PHE:HD2	2:Fd:193:ASP:HB2	1.73	0.53
1:MC:47:LEU:HD12	1:MC:60:PHE:HB2	1.90	0.53
1:NA:81:ASN:O	1:NA:85:GLU:HG2	2.07	0.53
2:Sd:135:PHE:HD2	2:Sd:193:ASP:HB2	1.73	0.53
1:UA:79:HIS:CE1	1:YD:69:GLU:HG2	2.40	0.53
1:dA:81:ASN:O	1:dA:85:GLU:HG2	2.07	0.53
2:jb:164:VAL:HG22	2:jd:117:TYR:HB2	1.89	0.53
2:na:173:PRO:HD3	1:rD:43:VAL:HG23	1.90	0.53
2:qd:135:PHE:HD2	2:qd:193:ASP:HB2	1.73	0.53
2:td:135:PHE:HD2	2:td:193:ASP:HB2	1.73	0.53
1:0C:47:LEU:HD12	1:0C:60:PHE:HB2	1.90	0.53
2:5a:173:PRO:HD3	1:GD:43:VAL:HG23	1.90	0.53
2:Bd:135:PHE:HD2	2:Bd:193:ASP:HB2	1.73	0.53
2:Cd:135:PHE:HD2	2:Cd:193:ASP:HB2	1.73	0.53
2:Dd:135:PHE:HD2	2:Dd:193:ASP:HB2	1.73	0.53
1:FC:47:LEU:HD12	1:FC:60:PHE:HB2	1.90	0.53
2:Gc:164:VAL:HG22	2:Lb:117:TYR:HB2	1.90	0.53
2:Jd:185:ILE:O	1:KB:56:LYS:NZ	2.35	0.53
2:Ld:135:PHE:HD2	2:Ld:193:ASP:HB2	1.73	0.53
1:OC:47:LEU:HD12	1:OC:60:PHE:HB2	1.90	0.53
2:Pd:135:PHE:HD2	2:Pd:193:ASP:HB2	1.73	0.53
2:Qd:135:PHE:HD2	2:Qd:193:ASP:HB2	1.73	0.53
2:Sb:117:TYR:HB2	2:Wc:164:VAL:HG22	1.90	0.53
2:Wb:117:TYR:HB2	2:wc:164:VAL:HG22	1.90	0.53
1:kC:47:LEU:HD12	1:kC:60:PHE:HB2	1.90	0.53
2:md:135:PHE:HD2	2:md:193:ASP:HB2	1.73	0.53
2:4b:118:GLU:CD	2:rc:134:ARG:HH22	2.14	0.53
2:4d:135:PHE:HD2	2:4d:193:ASP:HB2	1.73	0.53
2:6d:135:PHE:HD2	2:6d:193:ASP:HB2	1.73	0.53
1:7C:47:LEU:HD12	1:7C:60:PHE:HB2	1.90	0.53
2:Ec:164:VAL:HG22	2:db:117:TYR:HB2	1.91	0.53
2:Ha:173:PRO:HD3	1:ID:43:VAL:HG23	1.90	0.53
2:Hc:164:VAL:HG22	2:Ob:117:TYR:HB2	1.91	0.53
1:JD:36:PHE:N	1:KD:38:TYR:HH	2.05	0.53
1:QD:43:VAL:HG23	2:Ra:173:PRO:HD3	1.89	0.53
2:Td:135:PHE:HD2	2:Td:193:ASP:HB2	1.73	0.53
2:Wd:135:PHE:HD2	2:Wd:193:ASP:HB2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Xb:164:VAL:HG22	2:Xd:117:TYR:HB2	1.89	0.53
1:ZD:43:VAL:HG23	2:aa:173:PRO:HD3	1.90	0.53
1:bA:81:ASN:O	1:bA:85:GLU:HG2	2.07	0.53
2:dd:135:PHE:HD2	2:dd:193:ASP:HB2	1.73	0.53
2:hd:135:PHE:HD2	2:hd:193:ASP:HB2	1.73	0.53
1:nA:79:HIS:CE1	1:rD:69:GLU:HG2	2.41	0.53
2:sd:135:PHE:HD2	2:sd:193:ASP:HB2	1.73	0.53
2:ud:135:PHE:HD2	2:ud:193:ASP:HB2	1.73	0.53
2:yb:164:VAL:HG22	2:yd:117:TYR:HB2	1.89	0.53
1:4C:43:VAL:HG23	2:rc:173:PRO:HG3	1.90	0.53
1:4D:43:VAL:HG23	2:Pa:173:PRO:CD	2.35	0.53
2:Ba:177:ASP:O	2:Ba:181:ARG:HG2	2.09	0.53
2:Bc:167:PRO:HD2	1:GB:93:MET:HE2	1.90	0.53
2:Dd:185:ILE:O	1:EB:56:LYS:NZ	2.33	0.53
2:Fa:177:ASP:O	2:Fa:181:ARG:HG2	2.09	0.53
2:Ia:177:ASP:O	2:Ia:181:ARG:HG2	2.09	0.53
2:Ic:164:VAL:HG22	2:lb:117:TYR:HB2	1.90	0.53
1:KD:69:GLU:HG2	1:LA:79:HIS:CE1	2.41	0.53
2:Kb:164:VAL:HG22	2:Kd:117:TYR:HB2	1.89	0.53
1:VD:43:VAL:HG23	2:Wa:173:PRO:HD3	1.90	0.53
1:XD:43:VAL:HG23	2:Ya:173:PRO:HD3	1.90	0.53
2:Zb:164:VAL:HG22	2:Zd:117:TYR:HB2	1.89	0.53
2:jd:135:PHE:HD2	2:jd:193:ASP:HB2	1.73	0.53
2:kb:117:TYR:HB2	2:nc:164:VAL:HG22	1.91	0.53
2:la:177:ASP:O	2:la:181:ARG:HG2	2.09	0.53
1:nD:62:ILE:HG21	2:oa:195:ILE:HA	1.89	0.53
2:ra:177:ASP:O	2:ra:181:ARG:HG2	2.09	0.53
1:sC:47:LEU:HD12	1:sC:60:PHE:HB2	1.90	0.53
2:sa:177:ASP:O	2:sa:181:ARG:HG2	2.09	0.53
1:vD:43:VAL:HG23	2:wa:173:PRO:HD3	1.90	0.53
2:vd:135:PHE:HD2	2:vd:193:ASP:HB2	1.73	0.53
2:vd:185:ILE:O	1:wB:56:LYS:NZ	2.33	0.53
2:2b:117:TYR:HB2	2:mc:164:VAL:HG22	1.90	0.53
2:3c:164:VAL:HG22	2:Ib:117:TYR:HB2	1.90	0.53
1:5A:79:HIS:CE1	1:GD:69:GLU:HG2	2.41	0.53
1:7B:63:ILE:HB	2:Td:143:LEU:HD11	1.90	0.53
1:KA:81:ASN:O	1:KA:85:GLU:HG2	2.07	0.53
2:Mb:117:TYR:HB2	2:Oc:164:VAL:HG22	1.90	0.53
2:Wa:177:ASP:O	2:Wa:181:ARG:HG2	2.09	0.53
1:cD:43:VAL:HG23	2:da:173:PRO:HD3	1.90	0.53
2:dc:167:PRO:HD2	1:fB:93:MET:HE2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ed:135:PHE:HD2	2:ed:193:ASP:HB2	1.73	0.53
1:gC:47:LEU:HD12	1:gC:60:PHE:HB2	1.90	0.53
1;jB:56:LYS:NZ	2:md:185:ILE:O	2.33	0.53
1:nB:56:LYS:NZ	2:rd:185:ILE:O	2.33	0.53
2:sa:164:VAL:HG22	2:wa:117:TYR:HB2	1.89	0.53
2:ta:177:ASP:O	2:ta:181:ARG:HG2	2.09	0.53
2:va:177:ASP:O	2:va:181:ARG:HG2	2.09	0.53
1:yD:69:GLU:HG2	1:zA:79:HIS:CE1	2.41	0.53
2:1a:177:ASP:O	2:1a:181:ARG:HG2	2.09	0.53
1:3A:79:HIS:CE1	1:OD:69:GLU:HG2	2.40	0.53
1:4D:50:LEU:HD21	2:Pa:177:ASP:HA	1.89	0.53
1:6B:56:LYS:NZ	2:Pd:185:ILE:O	2.33	0.53
2:Aa:177:ASP:O	2:Aa:181:ARG:HG2	2.09	0.53
1:DD:43:VAL:HG23	2:Ea:173:PRO:HD3	1.90	0.53
2:Da:177:ASP:O	2:Da:181:ARG:HG2	2.09	0.53
2:Eb:117:TYR:HB2	2:fc:164:VAL:HG22	1.89	0.53
1:HA:79:HIS:CE1	1:ID:69:GLU:HG2	2.40	0.53
2:Ka:177:ASP:O	2:Ka:181:ARG:HG2	2.09	0.53
2:Ma:177:ASP:O	2:Ma:181:ARG:HG2	2.09	0.53
1:RB:51:SER:HB2	1:RB:58:VAL:HB	1.91	0.53
1:SD:69:GLU:HG2	1:TA:79:HIS:CE1	2.40	0.53
1:TC:47:LEU:HD12	1:TC:60:PHE:HB2	1.90	0.53
1:UA:81:ASN:O	1:UA:85:GLU:HG2	2.07	0.53
1:bB:93:MET:HE3	2:yc:171:GLU:HG2	1.91	0.53
2:da:177:ASP:O	2:da:181:ARG:HG2	2.09	0.53
1:gD:69:GLU:HG2	1:hA:79:HIS:CE1	2.40	0.53
1:hD:43:VAL:HG23	2:ia:173:PRO:HD3	1.90	0.53
2:ld:135:PHE:HD2	2:ld:193:ASP:HB2	1.73	0.53
1:yA:81:ASN:O	1:yA:85:GLU:HG2	2.07	0.53
2:0a:177:ASP:O	2:0a:181:ARG:HG2	2.09	0.53
2:2a:177:ASP:O	2:2a:181:ARG:HG2	2.09	0.53
2:4a:177:ASP:O	2:4a:181:ARG:HG2	2.09	0.53
2:Jc:195:ILE:HG12	1:TC:62:ILE:HG21	1.90	0.53
1:LD:43:VAL:HG23	2:Ma:173:PRO:HD3	1.90	0.53
2:Na:177:ASP:O	2:Na:181:ARG:HG2	2.09	0.53
2:Ra:177:ASP:O	2:Ra:181:ARG:HG2	2.09	0.53
1:eC:47:LEU:HD12	1:eC:60:PHE:HB2	1.90	0.53
1:iB:51:SER:HB2	1:iB:58:VAL:HB	1.91	0.53
2:qa:177:ASP:O	2:qa:181:ARG:HG2	2.09	0.53
2:xd:135:PHE:HD2	2:xd:193:ASP:HB2	1.73	0.53
2:ya:177:ASP:O	2:ya:181:ARG:HG2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0d:135:PHE:HD2	2:0d:193:ASP:HB2	1.73	0.53
2:2b:136:ASN:HD21	2:2b:193:ASP:HB2	1.71	0.53
1:3B:51:SER:HB2	1:3B:58:VAL:HB	1.91	0.53
2:3a:177:ASP:O	2:3a:181:ARG:HG2	2.09	0.53
1:AB:51:SER:HB2	1:AB:58:VAL:HB	1.91	0.53
2:Ad:135:PHE:HD2	2:Ad:193:ASP:HB2	1.73	0.53
2:Jd:135:PHE:HD2	2:Jd:193:ASP:HB2	1.73	0.53
2:Oa:177:ASP:O	2:Oa:181:ARG:HG2	2.09	0.53
2:Rd:135:PHE:HD2	2:Rd:193:ASP:HB2	1.73	0.53
1:YB:51:SER:HB2	1:YB:58:VAL:HB	1.91	0.53
1:eA:79:HIS:CE1	1:fD:69:GLU:HG2	2.40	0.53
2:hc:164:VAL:HG22	2:mb:117:TYR:HB2	1.90	0.53
2:ia:177:ASP:O	2:ia:181:ARG:HG2	2.09	0.53
2:id:135:PHE:HD2	2:id:193:ASP:HB2	1.73	0.53
2:ka:177:ASP:O	2:ka:181:ARG:HG2	2.09	0.53
1:nB:51:SER:HB2	1:nB:58:VAL:HB	1.91	0.53
2:pa:177:ASP:O	2:pa:181:ARG:HG2	2.09	0.53
1:wC:47:LEU:HD12	1:wC:60:PHE:HB2	1.90	0.53
1:0B:51:SER:HB2	1:0B:58:VAL:HB	1.91	0.53
2:1c:164:VAL:HG22	2:jb:117:TYR:HB2	1.90	0.53
2:2a:173:PRO:HD3	1:5D:43:VAL:HG23	1.90	0.53
2:2c:164:VAL:HG22	2:hb:117:TYR:HB2	1.90	0.53
2:3d:135:PHE:HD2	2:3d:193:ASP:HB2	1.73	0.53
2:7a:177:ASP:O	2:7a:181:ARG:HG2	2.09	0.53
1:EB:51:SER:HB2	1:EB:58:VAL:HB	1.91	0.53
1:EC:47:LEU:HD12	1:EC:60:PHE:HB2	1.90	0.53
1:FB:51:SER:HB2	1:FB:58:VAL:HB	1.91	0.53
1:HB:51:SER:HB2	1:HB:58:VAL:HB	1.91	0.53
1:HB:56:LYS:NZ	2:Id:185:ILE:O	2.33	0.53
2:Id:135:PHE:HD2	2:Id:193:ASP:HB2	1.73	0.53
1:JA:79:HIS:CE1	1:ND:69:GLU:HG2	2.43	0.53
1:LB:51:SER:HB2	1:LB:58:VAL:HB	1.91	0.53
1:MB:51:SER:HB2	1:MB:58:VAL:HB	1.91	0.53
2:Md:135:PHE:HD2	2:Md:193:ASP:HB2	1.73	0.53
2:Pa:177:ASP:O	2:Pa:181:ARG:HG2	2.09	0.53
2:Pb:117:TYR:HB2	2:Qc:164:VAL:HG22	1.90	0.53
1:aB:51:SER:HB2	1:aB:58:VAL:HB	1.91	0.53
2:ga:177:ASP:O	2:ga:181:ARG:HG2	2.09	0.53
1:zB:51:SER:HB2	1:zB:58:VAL:HB	1.91	0.53
2:1c:134:ARG:NH2	2:jb:118:GLU:OE2	2.31	0.53
2:5a:177:ASP:O	2:5a:181:ARG:HG2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:5c:164:VAL:HG22	2:Fb:117:TYR:HB2	1.90	0.53
2:Hb:117:TYR:HB2	2:Mc:164:VAL:HG22	1.91	0.53
2:Ld:185:ILE:O	1:MB:56:LYS:NZ	2.33	0.53
1:SB:51:SER:HB2	1:SB:58:VAL:HB	1.91	0.53
2:ad:135:PHE:HD2	2:ad:193:ASP:HB2	1.73	0.53
2:ca:177:ASP:O	2:ca:181:ARG:HG2	2.09	0.53
1:kB:51:SER:HB2	1:kB:58:VAL:HB	1.91	0.53
2:ma:177:ASP:O	2:ma:181:ARG:HG2	2.09	0.53
2:qb:136:ASN:HD21	2:qb:193:ASP:HB2	1.71	0.53
2:rd:135:PHE:HD2	2:rd:193:ASP:HB2	1.73	0.53
1:sB:51:SER:HB2	1:sB:58:VAL:HB	1.91	0.53
2:xa:177:ASP:O	2:xa:181:ARG:HG2	2.09	0.53
1:7D:43:VAL:HG23	2:Qa:173:PRO:CD	2.39	0.52
1:CB:51:SER:HB2	1:CB:58:VAL:HB	1.91	0.52
1:DB:51:SER:HB2	1:DB:58:VAL:HB	1.91	0.52
1:IC:47:LEU:HD12	1:IC:60:PHE:HB2	1.90	0.52
1:OB:51:SER:HB2	1:OB:58:VAL:HB	1.91	0.52
1:RC:47:LEU:HD12	1:RC:60:PHE:HB2	1.90	0.52
2:Sc:164:VAL:HG22	2:wb:117:TYR:HB2	1.90	0.52
2:Sd:185:ILE:O	1:TB:56:LYS:NZ	2.33	0.52
1:TB:51:SER:HB2	1:TB:58:VAL:HB	1.91	0.52
2:Ta:177:ASP:O	2:Ta:181:ARG:HG2	2.09	0.52
2:Va:177:ASP:O	2:Va:181:ARG:HG2	2.09	0.52
2:Yd:135:PHE:HD2	2:Yd:193:ASP:HB2	1.73	0.52
1:aC:47:LEU:HD12	1:aC:60:PHE:HB2	1.90	0.52
1:eB:51:SER:HB2	1:eB:58:VAL:HB	1.91	0.52
1:fB:51:SER:HB2	1:fB:58:VAL:HB	1.91	0.52
1:rC:47:LEU:HD12	1:rC:60:PHE:HB2	1.90	0.52
2:uc:164:VAL:HG22	2:yb:117:TYR:HB2	1.90	0.52
1:vB:51:SER:HB2	1:vB:58:VAL:HB	1.91	0.52
1:wB:51:SER:HB2	1:wB:58:VAL:HB	1.91	0.52
1:5B:56:LYS:NZ	2:Gd:185:ILE:O	2.33	0.52
2:Cc:164:VAL:HG22	2:Kb:117:TYR:HB2	1.90	0.52
2:Ed:135:PHE:HD2	2:Ed:193:ASP:HB2	1.73	0.52
2:Hb:118:GLU:OE2	2:Mc:134:ARG:NH2	2.31	0.52
2:Ja:177:ASP:O	2:Ja:181:ARG:HG2	2.09	0.52
1:WD:69:GLU:HG2	1:XA:79:HIS:CE1	2.40	0.52
1:YC:47:LEU:HD12	1:YC:60:PHE:HB2	1.90	0.52
2:ba:177:ASP:O	2:ba:181:ARG:HG2	2.09	0.52
2:ea:177:ASP:O	2:ea:181:ARG:HG2	2.09	0.52
1:gD:43:VAL:HG23	2:ha:173:PRO:HD3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:iC:47:LEU:HD12	1:iC:60:PHE:HB2	1.90	0.52
1:qB:51:SER:HB2	1:qB:58:VAL:HB	1.91	0.52
1:uB:51:SER:HB2	1:uB:58:VAL:HB	1.91	0.52
2:wd:135:PHE:HD2	2:wd:193:ASP:HB2	1.73	0.52
2:2d:185:ILE:O	1:IB:56:LYS:NZ	2.33	0.52
1:BB:51:SER:HB2	1:BB:58:VAL:HB	1.91	0.52
1:GC:47:LEU:HD12	1:GC:60:PHE:HB2	1.90	0.52
2:Ga:177:ASP:O	2:Ga:181:ARG:HG2	2.09	0.52
1:UD:43:VAL:HG23	2:Va:173:PRO:HD3	1.89	0.52
2:Ua:177:ASP:O	2:Ua:181:ARG:HG2	2.09	0.52
1:WC:47:LEU:HD12	1:WC:60:PHE:HB2	1.90	0.52
2:Xa:177:ASP:O	2:Xa:181:ARG:HG2	2.09	0.52
2:Ya:177:ASP:O	2:Ya:181:ARG:HG2	2.09	0.52
2:Za:177:ASP:O	2:Za:181:ARG:HG2	2.09	0.52
2:pc:164:VAL:HG22	2:sb:117:TYR:HB2	1.90	0.52
1:1C:47:LEU:HD12	1:1C:60:PHE:HB2	1.90	0.52
2:1b:117:TYR:HB2	2:gc:164:VAL:HG22	1.90	0.52
1:2B:51:SER:HB2	1:2B:58:VAL:HB	1.91	0.52
2:7c:171:GLU:HG2	1:NB:93:MET:HE3	1.92	0.52
2:La:177:ASP:O	2:La:181:ARG:HG2	2.09	0.52
2:Yc:164:VAL:HG22	2:Zb:117:TYR:HB2	1.90	0.52
1:ZA:79:HIS:CE1	1:dD:69:GLU:HG2	2.40	0.52
2:oa:177:ASP:O	2:oa:181:ARG:HG2	2.09	0.52
1:tB:51:SER:HB2	1:tB:58:VAL:HB	1.91	0.52
1:xB:51:SER:HB2	1:xB:58:VAL:HB	1.91	0.52
2:0a:174:VAL:HG22	1:zA:97:TYR:OH	2.08	0.52
2:4b:116:ILE:CD1	2:rc:163:LEU:HD23	2.39	0.52
1:6B:93:MET:HE2	2:Nc:167:PRO:HD2	1.90	0.52
2:Ga:173:PRO:HD3	1:HD:43:VAL:HG23	1.89	0.52
2:Ha:177:ASP:O	2:Ha:181:ARG:HG2	2.09	0.52
1:JB:51:SER:HB2	1:JB:58:VAL:HB	1.91	0.52
2:Ud:135:PHE:HD2	2:Ud:193:ASP:HB2	1.73	0.52
2:aa:177:ASP:O	2:aa:181:ARG:HG2	2.09	0.52
2:bd:135:PHE:HD2	2:bd:193:ASP:HB2	1.73	0.52
1:dC:47:LEU:HD12	1:dC:60:PHE:HB2	1.90	0.52
1:mB:51:SER:HB2	1:mB:58:VAL:HB	1.91	0.52
2:na:177:ASP:O	2:na:181:ARG:HG2	2.09	0.52
1:oB:93:MET:HE3	2:tc:171:GLU:HG2	1.90	0.52
2:yd:135:PHE:HD2	2:yd:193:ASP:HB2	1.73	0.52
1:4C:47:LEU:HD12	1:4C:60:PHE:HB2	1.90	0.52
2:5b:117:TYR:HB2	2:ic:164:VAL:HG22	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KC:47:LEU:HD12	1:KC:60:PHE:HB2	1.90	0.52
2:Kd:135:PHE:HD2	2:Kd:193:ASP:HB2	1.73	0.52
2:Qa:177:ASP:O	2:Qa:181:ARG:HG2	2.09	0.52
2:Xb:117:TYR:HB2	2:ac:164:VAL:HG22	1.90	0.52
2:gd:135:PHE:HD2	2:gd:193:ASP:HB2	1.73	0.52
2:wa:177:ASP:O	2:wa:181:ARG:HG2	2.09	0.52
1:xD:43:VAL:HG23	2:ya:173:PRO:HD3	1.90	0.52
1:yC:47:LEU:HD12	1:yC:60:PHE:HB2	1.90	0.52
2:za:177:ASP:O	2:za:181:ARG:HG2	2.09	0.52
2:0c:164:VAL:HG22	2:nb:117:TYR:HB2	1.90	0.52
2:3b:117:TYR:HB2	2:lc:164:VAL:HG22	1.90	0.52
2:Gd:135:PHE:HD2	2:Gd:193:ASP:HB2	1.73	0.52
1:PB:51:SER:HB2	1:PB:58:VAL:HB	1.91	0.52
2:fa:177:ASP:O	2:fa:181:ARG:HG2	2.09	0.52
1:lC:47:LEU:HD12	1:lC:60:PHE:HB2	1.90	0.52
1:lD:69:GLU:HG2	1:mA:79:HIS:CE1	2.40	0.52
1:oC:47:LEU:HD12	1:oC:60:PHE:HB2	1.90	0.52
2:7d:135:PHE:HD2	2:7d:193:ASP:HB2	1.73	0.52
2:Ea:177:ASP:O	2:Ea:181:ARG:HG2	2.09	0.52
1:NC:47:LEU:HD12	1:NC:60:PHE:HB2	1.90	0.52
2:Sa:177:ASP:O	2:Sa:181:ARG:HG2	2.09	0.52
1:hB:51:SER:HB2	1:hB:58:VAL:HB	1.91	0.52
1:qD:69:GLU:HG2	1:rA:79:HIS:CE1	2.41	0.52
2:6a:177:ASP:O	2:6a:181:ARG:HG2	2.09	0.52
1:ZB:51:SER:HB2	1:ZB:58:VAL:HB	1.91	0.52
1:ZD:69:GLU:HG2	1:aA:79:HIS:CE1	2.41	0.52
2:ed:165:ARG:NH2	2:gc:116:ILE:HG21	2.24	0.52
1:hA:68:LEU:O	1:hA:72:ILE:HG12	2.10	0.52
2:ha:177:ASP:O	2:ha:181:ARG:HG2	2.09	0.52
1:lB:51:SER:HB2	1:lB:58:VAL:HB	1.91	0.52
2:ld:185:ILE:O	1:mB:56:LYS:NZ	2.33	0.52
2:nd:135:PHE:HD2	2:nd:193:ASP:HB2	1.73	0.52
1:uA:68:LEU:O	1:uA:72:ILE:HG12	2.10	0.52
1:4B:51:SER:HB2	1:4B:58:VAL:HB	1.91	0.52
1:CA:68:LEU:O	1:CA:72:ILE:HG12	2.10	0.52
1:GA:68:LEU:O	1:GA:72:ILE:HG12	2.10	0.52
2:Hd:135:PHE:HD2	2:Hd:193:ASP:HB2	1.73	0.52
1:QA:68:LEU:O	1:QA:72:ILE:HG12	2.10	0.52
1:QB:51:SER:HB2	1:QB:58:VAL:HB	1.91	0.52
1:VB:51:SER:HB2	1:VB:58:VAL:HB	1.91	0.52
1:XB:51:SER:HB2	1:XB:58:VAL:HB	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ed:134:ARG:NH2	2:gc:118:GLU:HG3	2.22	0.52
2:od:135:PHE:HD2	2:od:193:ASP:HB2	1.73	0.52
2:ua:177:ASP:O	2:ua:181:ARG:HG2	2.09	0.52
1:AA:79:HIS:CE1	1:kD:69:GLU:HG2	2.42	0.51
2:Ca:177:ASP:O	2:Ca:181:ARG:HG2	2.09	0.51
1:WB:51:SER:HB2	1:WB:58:VAL:HB	1.91	0.51
1:YA:68:LEU:O	1:YA:72:ILE:HG12	2.10	0.51
1:aA:68:LEU:O	1:aA:72:ILE:HG12	2.10	0.51
2:bc:164:VAL:HG22	2:ub:117:TYR:HB2	1.92	0.51
1:dB:51:SER:HB2	1:dB:58:VAL:HB	1.91	0.51
2:ja:177:ASP:O	2:ja:181:ARG:HG2	2.09	0.51
1:oA:68:LEU:O	1:oA:72:ILE:HG12	2.10	0.51
1:5B:51:SER:HB2	1:5B:58:VAL:HB	1.91	0.51
1:FA:68:LEU:O	1:FA:72:ILE:HG12	2.10	0.51
2:Kc:164:VAL:HG22	2:Ub:117:TYR:HB2	1.90	0.51
1:OA:68:LEU:O	1:OA:72:ILE:HG12	2.10	0.51
1:TA:68:LEU:O	1:TA:72:ILE:HG12	2.10	0.51
1:VA:68:LEU:O	1:VA:72:ILE:HG12	2.10	0.51
2:Zd:135:PHE:HD2	2:Zd:193:ASP:HB2	1.73	0.51
1:cB:51:SER:HB2	1:cB:58:VAL:HB	1.91	0.51
1:eA:68:LEU:O	1:eA:72:ILE:HG12	2.10	0.51
2:ed:134:ARG:HH22	2:gc:118:GLU:CG	2.20	0.51
1:sA:68:LEU:O	1:sA:72:ILE:HG12	2.10	0.51
1:HA:68:LEU:O	1:HA:72:ILE:HG12	2.10	0.51
1:NA:68:LEU:O	1:NA:72:ILE:HG12	2.10	0.51
1:XD:69:GLU:HG2	1:YA:79:HIS:CE1	2.41	0.51
2:Xd:135:PHE:HD2	2:Xd:193:ASP:HB2	1.73	0.51
1:ZA:68:LEU:O	1:ZA:72:ILE:HG12	2.10	0.51
1:cA:68:LEU:O	1:cA:72:ILE:HG12	2.10	0.51
1:gB:51:SER:HB2	1:gB:58:VAL:HB	1.91	0.51
1:kA:68:LEU:O	1:kA:72:ILE:HG12	2.10	0.51
2:na:118:GLU:CD	2:oa:134:ARG:HH22	2.15	0.51
2:pd:134:ARG:HH22	2:qc:118:GLU:HG3	1.75	0.51
1:0B:93:MET:HE2	2:kc:167:PRO:HD2	1.90	0.51
1:1A:68:LEU:O	1:1A:72:ILE:HG12	2.10	0.51
1:5A:68:LEU:O	1:5A:72:ILE:HG12	2.10	0.51
2:Ac:118:GLU:HG3	2:kd:134:ARG:HH22	1.76	0.51
1:EA:68:LEU:O	1:EA:72:ILE:HG12	2.10	0.51
2:Jc:139:LEU:HD11	1:TC:69:GLU:OE1	2.10	0.51
1:MA:65:ALA:HB1	1:MA:69:GLU:HB2	1.93	0.51
1:nA:68:LEU:O	1:nA:72:ILE:HG12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:wA:68:LEU:O	1:wA:72:ILE:HG12	2.10	0.51
1:zA:68:LEU:O	1:zA:72:ILE:HG12	2.10	0.51
1:0A:65:ALA:HB1	1:0A:69:GLU:HB2	1.93	0.51
1:7B:51:SER:HB2	1:7B:58:VAL:HB	1.91	0.51
1:JA:68:LEU:O	1:JA:72:ILE:HG12	2.10	0.51
1:LA:68:LEU:O	1:LA:72:ILE:HG12	2.10	0.51
1:NA:65:ALA:HB1	1:NA:69:GLU:HB2	1.93	0.51
1:RA:68:LEU:O	1:RA:72:ILE:HG12	2.10	0.51
1:XA:68:LEU:O	1:XA:72:ILE:HG12	2.10	0.51
1:iA:68:LEU:O	1:iA:72:ILE:HG12	2.10	0.51
1:jB:51:SER:HB2	1:jB:58:VAL:HB	1.91	0.51
1:oB:51:SER:HB2	1:oB:58:VAL:HB	1.91	0.51
1:1A:65:ALA:HB1	1:1A:69:GLU:HB2	1.93	0.51
1:3B:93:MET:HE3	2:lc:171:GLU:HG2	1.93	0.51
1:6B:51:SER:HB2	1:6B:58:VAL:HB	1.91	0.51
2:6d:185:ILE:O	1:OB:56:LYS:NZ	2.33	0.51
1:GB:51:SER:HB2	1:GB:58:VAL:HB	1.91	0.51
1:OA:65:ALA:HB1	1:OA:69:GLU:HB2	1.93	0.51
2:ed:167:PRO:CD	1:gC:93:MET:HE3	2.40	0.51
1:gB:93:MET:HE3	2:jc:171:GLU:HG2	1.93	0.51
1:hD:36:PHE:N	1:iD:38:TYR:HH	2.09	0.51
1:pA:68:LEU:O	1:pA:72:ILE:HG12	2.10	0.51
1:pB:51:SER:HB2	1:pB:58:VAL:HB	1.91	0.51
1:xA:68:LEU:O	1:xA:72:ILE:HG12	2.10	0.51
1:1B:93:MET:HE3	2:gc:171:GLU:HG2	1.93	0.51
1:6A:68:LEU:O	1:6A:72:ILE:HG12	2.10	0.51
1:IB:51:SER:HB2	1:IB:58:VAL:HB	1.91	0.51
1:QD:36:PHE:N	1:RD:38:TYR:HH	2.09	0.51
2:Wd:185:ILE:O	1:XB:56:LYS:NZ	2.33	0.51
1:YA:65:ALA:HB1	1:YA:69:GLU:HB2	1.93	0.51
1:aA:65:ALA:HB1	1:aA:69:GLU:HB2	1.93	0.51
1:jA:65:ALA:HB1	1:jA:69:GLU:HB2	1.93	0.51
1:kA:65:ALA:HB1	1:kA:69:GLU:HB2	1.93	0.51
1:lD:36:PHE:N	1:mD:38:TYR:HH	2.09	0.51
1:6A:65:ALA:HB1	1:6A:69:GLU:HB2	1.93	0.51
1:KA:68:LEU:O	1:KA:72:ILE:HG12	2.10	0.51
1:NB:51:SER:HB2	1:NB:58:VAL:HB	1.91	0.51
1:PA:65:ALA:HB1	1:PA:69:GLU:HB2	1.93	0.51
1:QA:65:ALA:HB1	1:QA:69:GLU:HB2	1.93	0.51
1:hA:65:ALA:HB1	1:hA:69:GLU:HB2	1.93	0.51
1:lA:68:LEU:O	1:lA:72:ILE:HG12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:yA:68:LEU:O	1:yA:72:ILE:HG12	2.10	0.51
1:3A:93:MET:HE2	2:4a:171:GLU:CG	2.41	0.51
1:5B:93:MET:HE3	2:ic:171:GLU:HG2	1.93	0.51
1:GB:56:LYS:NZ	2:Hd:185:ILE:O	2.33	0.51
1:IA:68:LEU:O	1:IA:72:ILE:HG12	2.10	0.51
2:Kc:171:GLU:HG2	1:UB:93:MET:HE3	1.93	0.51
2:Sc:171:GLU:HG2	1:wB:93:MET:HE3	1.93	0.51
1:UA:68:LEU:O	1:UA:72:ILE:HG12	2.10	0.51
2:jd:185:ILE:O	1:kB:56:LYS:NZ	2.33	0.51
1:mA:65:ALA:HB1	1:mA:69:GLU:HB2	1.93	0.51
1:mA:68:LEU:O	1:mA:72:ILE:HG12	2.10	0.51
1:1B:51:SER:HB2	1:1B:58:VAL:HB	1.91	0.51
1:1D:69:GLU:HG2	1:xA:79:HIS:CE1	2.41	0.51
1:2A:68:LEU:O	1:2A:72:ILE:HG12	2.10	0.51
1:BA:68:LEU:O	1:BA:72:ILE:HG12	2.10	0.51
2:Bb:118:GLU:CD	2:Lc:134:ARG:HH12	2.19	0.51
1:GD:38:TYR:HH	1:HD:36:PHE:N	2.09	0.51
1:PA:68:LEU:O	1:PA:72:ILE:HG12	2.10	0.51
1:UA:65:ALA:HB1	1:UA:69:GLU:HB2	1.93	0.51
1:UD:69:GLU:HG2	1:VA:79:HIS:CE1	2.40	0.51
1:ZA:65:ALA:HB1	1:ZA:69:GLU:HB2	1.93	0.51
1:bA:68:LEU:O	1:bA:72:ILE:HG12	2.10	0.51
1:jA:68:LEU:O	1:jA:72:ILE:HG12	2.10	0.51
1:rA:68:LEU:O	1:rA:72:ILE:HG12	2.10	0.51
1:rB:51:SER:HB2	1:rB:58:VAL:HB	1.91	0.51
1:tA:68:LEU:O	1:tA:72:ILE:HG12	2.10	0.51
1:4A:65:ALA:HB1	1:4A:69:GLU:HB2	1.93	0.50
1:AA:65:ALA:HB1	1:AA:69:GLU:HB2	1.93	0.50
1:CA:65:ALA:HB1	1:CA:69:GLU:HB2	1.93	0.50
1:EA:65:ALA:HB1	1:EA:69:GLU:HB2	1.93	0.50
2:Gc:171:GLU:HG2	1:LB:93:MET:HE3	1.93	0.50
1:HA:65:ALA:HB1	1:HA:69:GLU:HB2	1.93	0.50
1:TA:65:ALA:HB1	1:TA:69:GLU:HB2	1.93	0.50
1:XA:65:ALA:HB1	1:XA:69:GLU:HB2	1.93	0.50
1:ZB:56:LYS:NZ	2:dd:185:ILE:O	2.33	0.50
1:eA:65:ALA:HB1	1:eA:69:GLU:HB2	1.93	0.50
1:fA:65:ALA:HB1	1:fA:69:GLU:HB2	1.93	0.50
1:gA:68:LEU:O	1:gA:72:ILE:HG12	2.10	0.50
1:gD:36:PHE:N	1:hD:38:TYR:HH	2.08	0.50
1:nA:65:ALA:HB1	1:nA:69:GLU:HB2	1.93	0.50
1:qA:68:LEU:O	1:qA:72:ILE:HG12	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:uA:65:ALA:HB1	1:uA:69:GLU:HB2	1.93	0.50
1:yB:51:SER:HB2	1:yB:58:VAL:HB	1.91	0.50
1:2A:79:HIS:CE1	1:5D:69:GLU:HG2	2.40	0.50
1:AA:68:LEU:O	1:AA:72:ILE:HG12	2.10	0.50
1:BD:38:TYR:HH	1:FD:36:PHE:N	2.09	0.50
1:SA:65:ALA:HB1	1:SA:69:GLU:HB2	1.93	0.50
1:UB:51:SER:HB2	1:UB:58:VAL:HB	1.91	0.50
1:bA:65:ALA:HB1	1:bA:69:GLU:HB2	1.93	0.50
1:bB:51:SER:HB2	1:bB:58:VAL:HB	1.91	0.50
2:cc:171:GLU:HG2	1:xB:93:MET:HE3	1.93	0.50
1:dA:68:LEU:O	1:dA:72:ILE:HG12	2.10	0.50
2:pc:139:LEU:HD11	1:sC:69:GLU:OE1	2.11	0.50
1:vA:65:ALA:HB1	1:vA:69:GLU:HB2	1.93	0.50
1:vA:68:LEU:O	1:vA:72:ILE:HG12	2.10	0.50
1:wA:65:ALA:HB1	1:wA:69:GLU:HB2	1.93	0.50
1:3A:65:ALA:HB1	1:3A:69:GLU:HB2	1.93	0.50
1:3A:68:LEU:O	1:3A:72:ILE:HG12	2.10	0.50
1:4A:68:LEU:O	1:4A:72:ILE:HG12	2.10	0.50
1:7A:65:ALA:HB1	1:7A:69:GLU:HB2	1.93	0.50
1:7A:68:LEU:O	1:7A:72:ILE:HG12	2.10	0.50
1:HB:93:MET:HE3	2:Mc:171:GLU:HG2	1.93	0.50
1:KB:51:SER:HB2	1:KB:58:VAL:HB	1.91	0.50
1:SA:68:LEU:O	1:SA:72:ILE:HG12	2.10	0.50
1:SB:93:MET:HE3	2:Wc:171:GLU:HG2	1.93	0.50
1:WA:68:LEU:O	1:WA:72:ILE:HG12	2.10	0.50
1:fA:68:LEU:O	1:fA:72:ILE:HG12	2.11	0.50
1:lA:65:ALA:HB1	1:lA:69:GLU:HB2	1.93	0.50
1:vD:36:PHE:N	1:wD:38:TYR:HH	2.09	0.50
1:DA:65:ALA:HB1	1:DA:69:GLU:HB2	1.93	0.50
1:DA:68:LEU:O	1:DA:72:ILE:HG12	2.10	0.50
1:JA:65:ALA:HB1	1:JA:69:GLU:HB2	1.93	0.50
1:QD:69:GLU:HG2	1:RA:79:HIS:CE1	2.40	0.50
1:hD:69:GLU:HG2	1:iA:79:HIS:CE1	2.41	0.50
1:pD:36:PHE:N	1:qD:38:TYR:HH	2.10	0.50
1:xA:65:ALA:HB1	1:xA:69:GLU:HB2	1.93	0.50
2:3d:143:LEU:HD11	1:4B:63:ILE:HB	1.94	0.50
1:5A:65:ALA:HB1	1:5A:69:GLU:HB2	1.93	0.50
2:Hc:171:GLU:HG2	1:OB:93:MET:HE3	1.93	0.50
1:JB:56:LYS:NZ	2:Nd:185:ILE:O	2.35	0.50
1:MA:68:LEU:O	1:MA:72:ILE:HG12	2.10	0.50
1:PB:93:MET:HE3	2:Qc:171:GLU:HG2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RB:93:MET:HE3	2:sc:171:GLU:HG2	1.93	0.50
1:SB:93:MET:HE2	2:Wc:167:PRO:HD2	1.94	0.50
1:WA:65:ALA:HB1	1:WA:69:GLU:HB2	1.93	0.50
1:gA:65:ALA:HB1	1:gA:69:GLU:HB2	1.93	0.50
2:hc:171:GLU:HG2	1:mB:93:MET:HE3	1.93	0.50
1:kB:93:MET:HE3	2:nc:171:GLU:HG2	1.93	0.50
1:oA:65:ALA:HB1	1:oA:69:GLU:HB2	1.93	0.50
1:0A:68:LEU:O	1:0A:72:ILE:HG12	2.10	0.50
1:2A:65:ALA:HB1	1:2A:69:GLU:HB2	1.93	0.50
1:DD:36:PHE:N	1:ED:38:TYR:HH	2.09	0.50
1:FA:65:ALA:HB1	1:FA:69:GLU:HB2	1.93	0.50
2:Tc:171:GLU:HG2	1:VB:93:MET:HE3	1.93	0.50
1:ZD:38:TYR:HH	1:dD:36:PHE:N	2.09	0.50
1:dA:65:ALA:HB1	1:dA:69:GLU:HB2	1.93	0.50
2:3d:185:ILE:O	1:4B:56:LYS:NZ	2.29	0.50
1:GA:65:ALA:HB1	1:GA:69:GLU:HB2	1.93	0.50
1:HB:93:MET:HE2	2:Mc:167:PRO:HD2	1.94	0.50
1:bD:69:GLU:HG2	1:cA:79:HIS:CE1	2.40	0.50
1:cA:65:ALA:HB1	1:cA:69:GLU:HB2	1.93	0.50
2:ea:118:GLU:OE1	2:ga:134:ARG:NH2	2.44	0.50
2:pd:185:ILE:O	1:qB:56:LYS:NZ	2.34	0.50
1:qA:65:ALA:HB1	1:qA:69:GLU:HB2	1.93	0.50
1:IA:65:ALA:HB1	1:IA:69:GLU:HB2	1.93	0.50
2:Pc:167:PRO:HD2	1:qB:93:MET:HE2	1.93	0.50
1:WD:36:PHE:N	1:XD:38:TYR:HH	2.09	0.50
1:sA:65:ALA:HB1	1:sA:69:GLU:HB2	1.93	0.50
1:3B:93:MET:HE2	2:lc:167:PRO:HD2	1.94	0.50
2:4d:173:PRO:HG3	1:PB:43:VAL:HG13	1.93	0.50
2:Gc:167:PRO:HD2	1:LB:93:MET:HE2	1.94	0.50
1:RA:65:ALA:HB1	1:RA:69:GLU:HB2	1.93	0.50
1:SD:36:PHE:N	1:TD:38:TYR:HH	2.09	0.50
1:VA:65:ALA:HB1	1:VA:69:GLU:HB2	1.93	0.50
1:aB:93:MET:HE3	2:vc:171:GLU:HG2	1.93	0.50
1:aD:69:GLU:HG2	1:bA:79:HIS:CE1	2.45	0.50
2:ba:117:TYR:HB2	2:ca:164:VAL:HG22	1.94	0.50
1:iA:65:ALA:HB1	1:iA:69:GLU:HB2	1.93	0.50
1:pA:65:ALA:HB1	1:pA:69:GLU:HB2	1.93	0.50
1:zA:65:ALA:HB1	1:zA:69:GLU:HB2	1.93	0.50
1:2B:93:MET:HE3	2:mc:171:GLU:HG2	1.93	0.49
2:3c:171:GLU:HG2	1:IB:93:MET:HE3	1.93	0.49
2:Dc:171:GLU:HG2	1:YB:93:MET:HE3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JB:93:MET:HE2	2:Vc:167:PRO:HD2	1.93	0.49
1:JD:38:TYR:HH	1:ND:36:PHE:N	2.10	0.49
1:LA:65:ALA:HB1	1:LA:69:GLU:HB2	1.93	0.49
1:RD:36:PHE:N	1:SD:38:TYR:HH	2.09	0.49
1:rA:65:ALA:HB1	1:rA:69:GLU:HB2	1.93	0.49
2:0a:195:ILE:HA	1:zD:62:ILE:HG21	1.94	0.49
2:Cc:167:PRO:HD2	1:KB:93:MET:HE2	1.94	0.49
1:MD:62:ILE:HG21	2:Na:195:ILE:HA	1.93	0.49
1:XB:93:MET:HE2	2:ac:167:PRO:HD2	1.94	0.49
2:Yc:167:PRO:HD2	1:ZB:93:MET:HE2	1.94	0.49
2:fa:195:ILE:HA	1:iD:62:ILE:HG21	1.94	0.49
2:oa:117:TYR:HB2	2:pa:164:VAL:HG22	1.94	0.49
2:qd:173:PRO:HG3	1:rB:43:VAL:HG13	1.93	0.49
1:2B:93:MET:HE2	2:mc:167:PRO:HD2	1.94	0.49
2:Yc:171:GLU:HG2	1:ZB:93:MET:HE3	1.93	0.49
2:eb:118:GLU:CD	2:xc:134:ARG:HH12	2.20	0.49
2:hc:167:PRO:HD2	1:mB:93:MET:HE2	1.94	0.49
1:ID:92:GLU:OE1	2:lb:134:ARG:NH2	2.42	0.49
2:Ec:171:GLU:HG2	1:dB:93:MET:HE3	1.93	0.49
1:HD:38:TYR:HH	1:ID:36:PHE:N	2.11	0.49
2:Md:173:PRO:HG3	1:NB:43:VAL:HG13	1.94	0.49
1:XB:93:MET:HE3	2:ac:171:GLU:HG2	1.93	0.49
2:nd:134:ARG:HH22	2:oc:118:GLU:HG3	1.78	0.49
2:uc:171:GLU:HG2	1:yB:93:MET:HE3	1.93	0.49
1:5B:93:MET:HE2	2:ic:167:PRO:HD2	1.95	0.49
2:Ba:164:VAL:HG22	2:Fa:117:TYR:HB2	1.95	0.49
1:CB:93:MET:HE3	2:Uc:171:GLU:HG2	1.93	0.49
2:Jc:164:VAL:HG22	2:Tb:117:TYR:HB2	1.93	0.49
1:KC:65:ALA:HB1	1:KC:69:GLU:HB2	1.95	0.49
2:Kc:167:PRO:HD2	1:UB:93:MET:HE2	1.94	0.49
1:PB:93:MET:HE2	2:Qc:167:PRO:HD2	1.94	0.49
1:WB:93:MET:HE3	2:wc:171:GLU:HG2	1.93	0.49
2:Xc:167:PRO:HD2	1:vB:93:MET:HE2	1.94	0.49
2:uc:167:PRO:HD2	1:yB:93:MET:HE2	1.94	0.49
1:wC:65:ALA:HB1	1:wC:69:GLU:HB2	1.95	0.49
2:6c:134:ARG:HH12	2:7b:118:GLU:CD	2.20	0.49
1:BC:65:ALA:HB1	1:BC:69:GLU:HB2	1.95	0.49
1:EA:93:MET:HE2	2:Fa:171:GLU:CG	2.41	0.49
1:JC:65:ALA:HB1	1:JC:69:GLU:HB2	1.95	0.49
2:Rc:167:PRO:HD2	1:pB:93:MET:HE2	1.95	0.49
2:Sc:167:PRO:HD2	1:wB:93:MET:HE2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TC:65:ALA:HB1	1:TC:69:GLU:HB2	1.95	0.49
1:UC:65:ALA:HB1	1:UC:69:GLU:HB2	1.95	0.49
1:aB:93:MET:HE2	2:vc:167:PRO:HD2	1.95	0.49
1:bC:65:ALA:HB1	1:bC:69:GLU:HB2	1.95	0.49
1:jA:79:HIS:CE1	1:mD:69:GLU:HG2	2.40	0.49
1:mD:92:GLU:OE1	2:mb:134:ARG:NH2	2.42	0.49
1:oC:65:ALA:HB1	1:oC:69:GLU:HB2	1.95	0.49
1:yC:65:ALA:HB1	1:yC:69:GLU:HB2	1.95	0.49
1:CB:93:MET:HE2	2:Uc:167:PRO:HD2	1.94	0.49
2:Cc:171:GLU:HG2	1:KB:93:MET:HE3	1.93	0.49
1:DB:93:MET:HE2	2:Zc:167:PRO:HD2	1.94	0.49
1:DB:93:MET:HE3	2:Zc:171:GLU:HG2	1.93	0.49
2:Dc:167:PRO:HD2	1:YB:93:MET:HE2	1.95	0.49
1:EC:65:ALA:HB1	1:EC:69:GLU:HB2	1.95	0.49
1:GC:65:ALA:HB1	1:GC:69:GLU:HB2	1.95	0.49
2:Ic:167:PRO:HD2	1:lB:93:MET:HE2	1.95	0.49
2:Ic:171:GLU:HG2	1:lB:93:MET:HE3	1.93	0.49
1:KA:65:ALA:HB1	1:KA:69:GLU:HB2	1.93	0.49
1:LD:69:GLU:HG2	1:MA:79:HIS:CE1	2.40	0.49
1:MB:93:MET:HE3	2:Oc:171:GLU:HG2	1.93	0.49
1:PD:92:GLU:OE1	2:Pb:134:ARG:NH2	2.41	0.49
1:RB:93:MET:HE2	2:sc:167:PRO:HD2	1.94	0.49
1:WC:65:ALA:HB1	1:WC:69:GLU:HB2	1.95	0.49
1:XC:65:ALA:HB1	1:XC:69:GLU:HB2	1.95	0.49
1:YC:65:ALA:HB1	1:YC:69:GLU:HB2	1.95	0.49
1:ZC:65:ALA:HB1	1:ZC:69:GLU:HB2	1.95	0.49
1:kD:40:ALA:HA	1:kD:43:VAL:HG12	1.95	0.49
2:sa:118:GLU:CD	2:ta:134:ARG:NH2	2.70	0.49
1:yA:65:ALA:HB1	1:yA:69:GLU:HB2	1.93	0.49
1:6A:79:HIS:CE1	1:PD:69:GLU:HG2	2.41	0.49
1:7D:40:ALA:HA	1:7D:43:VAL:HG12	1.95	0.49
2:7a:171:GLU:CG	1:TA:93:MET:HE2	2.43	0.49
1:BA:65:ALA:HB1	1:BA:69:GLU:HB2	1.93	0.49
1:OC:65:ALA:HB1	1:OC:69:GLU:HB2	1.95	0.49
1:OD:40:ALA:HA	1:OD:43:VAL:HG12	1.95	0.49
1:RD:40:ALA:HA	1:RD:43:VAL:HG12	1.95	0.49
1:XD:40:ALA:HA	1:XD:43:VAL:HG12	1.95	0.49
1:ZD:40:ALA:HA	1:ZD:43:VAL:HG12	1.95	0.49
1:aC:65:ALA:HB1	1:aC:69:GLU:HB2	1.95	0.49
1:dC:65:ALA:HB1	1:dC:69:GLU:HB2	1.95	0.49
1:eC:65:ALA:HB1	1:eC:69:GLU:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ea:164:VAL:HG22	2:fa:117:TYR:HB2	1.94	0.49
1:kC:65:ALA:HB1	1:kC:69:GLU:HB2	1.95	0.49
1:tA:65:ALA:HB1	1:tA:69:GLU:HB2	1.93	0.49
1:xC:65:ALA:HB1	1:xC:69:GLU:HB2	1.95	0.49
1:xD:69:GLU:HG2	1:yA:79:HIS:CE1	2.40	0.49
2:2d:177:ASP:O	2:2d:181:ARG:HG2	2.13	0.49
1:AD:92:GLU:OE1	2:Ab:134:ARG:NH2	2.41	0.49
1:IC:65:ALA:HB1	1:IC:69:GLU:HB2	1.95	0.49
1:NC:65:ALA:HB1	1:NC:69:GLU:HB2	1.95	0.49
2:Xc:171:GLU:HG2	1:vB:93:MET:HE3	1.93	0.49
1:gD:40:ALA:HA	1:gD:43:VAL:HG12	1.95	0.49
2:qd:177:ASP:O	2:qd:181:ARG:HG2	2.13	0.49
1:rC:65:ALA:HB1	1:rC:69:GLU:HB2	1.95	0.49
1:tC:65:ALA:HB1	1:tC:69:GLU:HB2	1.95	0.49
2:zd:177:ASP:O	2:zd:181:ARG:HG2	2.13	0.49
1:1C:65:ALA:HB1	1:1C:69:GLU:HB2	1.95	0.49
1:3D:92:GLU:OE1	2:3b:134:ARG:NH2	2.42	0.49
1:4D:92:GLU:OE1	2:4b:134:ARG:NH2	2.41	0.49
1:HD:40:ALA:HA	1:HD:43:VAL:HG12	1.95	0.49
1:ID:40:ALA:HA	1:ID:43:VAL:HG12	1.95	0.49
2:Ld:177:ASP:O	2:Ld:181:ARG:HG2	2.13	0.49
1:bD:92:GLU:OE1	2:bb:134:ARG:NH2	2.41	0.49
2:bc:171:GLU:HG2	1:uB:93:MET:HE3	1.94	0.49
1:iD:40:ALA:HA	1:iD:43:VAL:HG12	1.95	0.49
1:nD:40:ALA:HA	1:nD:43:VAL:HG12	1.95	0.49
1:nD:73:GLU:CD	2:oa:136:ASN:HD22	2.21	0.49
1:tD:40:ALA:HA	1:tD:43:VAL:HG12	1.95	0.49
1:1B:93:MET:HE2	2:gc:167:PRO:HD2	1.94	0.48
1:4D:40:ALA:HA	1:4D:43:VAL:HG12	1.95	0.48
1:BD:40:ALA:HA	1:BD:43:VAL:HG12	1.95	0.48
1:DC:65:ALA:HB1	1:DC:69:GLU:HB2	1.95	0.48
1:FD:40:ALA:HA	1:FD:43:VAL:HG12	1.95	0.48
2:Hd:177:ASP:O	2:Hd:181:ARG:HG2	2.13	0.48
1:UD:92:GLU:OE1	2:Ub:134:ARG:NH2	2.41	0.48
2:Ud:177:ASP:O	2:Ud:181:ARG:HG2	2.13	0.48
1:WB:93:MET:HE2	2:wc:167:PRO:HD2	1.94	0.48
2:Zd:177:ASP:O	2:Zd:181:ARG:HG2	2.13	0.48
1:aD:43:VAL:HG23	2:ba:173:PRO:HD3	1.95	0.48
1:cC:65:ALA:HB1	1:cC:69:GLU:HB2	1.95	0.48
1:cD:40:ALA:HA	1:cD:43:VAL:HG12	1.95	0.48
2:cb:114:ILE:HG22	2:ec:158:GLY:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nd:143:LEU:HD11	1:oB:63:ILE:HB	1.94	0.48
2:od:177:ASP:O	2:od:181:ARG:HG2	2.13	0.48
1:pD:43:VAL:HG23	2:qa:173:PRO:HD3	1.95	0.48
1:sD:40:ALA:HA	1:sD:43:VAL:HG12	1.95	0.48
1:1D:40:ALA:HA	1:1D:43:VAL:HG12	1.95	0.48
2:1c:167:PRO:HD2	1:jB:93:MET:HE2	1.94	0.48
2:2c:171:GLU:HG2	1:hB:93:MET:HE3	1.93	0.48
1:3C:65:ALA:HB1	1:3C:69:GLU:HB2	1.95	0.48
2:5d:177:ASP:O	2:5d:181:ARG:HG2	2.13	0.48
1:AC:65:ALA:HB1	1:AC:69:GLU:HB2	1.95	0.48
1:ED:73:GLU:CD	2:Fa:136:ASN:HD22	2.22	0.48
2:Gd:177:ASP:O	2:Gd:181:ARG:HG2	2.13	0.48
2:Kd:177:ASP:O	2:Kd:181:ARG:HG2	2.13	0.48
1:MB:93:MET:HE2	2:Oc:167:PRO:HD2	1.94	0.48
1:ND:40:ALA:HA	1:ND:43:VAL:HG12	1.95	0.48
1:VC:65:ALA:HB1	1:VC:69:GLU:HB2	1.95	0.48
2:Xd:177:ASP:O	2:Xd:181:ARG:HG2	2.13	0.48
1:aD:40:ALA:HA	1:aD:43:VAL:HG12	1.95	0.48
2:bd:177:ASP:O	2:bd:181:ARG:HG2	2.13	0.48
1:fC:65:ALA:HB1	1:fC:69:GLU:HB2	1.95	0.48
1:hC:65:ALA:HB1	1:hC:69:GLU:HB2	1.95	0.48
2:nd:177:ASP:O	2:nd:181:ARG:HG2	2.13	0.48
1:rD:40:ALA:HA	1:rD:43:VAL:HG12	1.95	0.48
1:uC:65:ALA:HB1	1:uC:69:GLU:HB2	1.95	0.48
2:ud:177:ASP:O	2:ud:181:ARG:HG2	2.13	0.48
2:yd:177:ASP:O	2:yd:181:ARG:HG2	2.13	0.48
2:3c:167:PRO:HD2	1:IB:93:MET:HE2	1.94	0.48
1:5C:65:ALA:HB1	1:5C:69:GLU:HB2	1.95	0.48
2:Cd:177:ASP:O	2:Cd:181:ARG:HG2	2.13	0.48
1:WD:40:ALA:HA	1:WD:43:VAL:HG12	1.95	0.48
1:YD:40:ALA:HA	1:YD:43:VAL:HG12	1.95	0.48
1:dD:40:ALA:HA	1:dD:43:VAL:HG12	1.95	0.48
1:gB:93:MET:HE2	2:jc:167:PRO:HD2	1.95	0.48
1:jD:40:ALA:HA	1:jD:43:VAL:HG12	1.95	0.48
2:kd:177:ASP:O	2:kd:181:ARG:HG2	2.13	0.48
1:lD:40:ALA:HA	1:lD:43:VAL:HG12	1.95	0.48
1:mC:65:ALA:HB1	1:mC:69:GLU:HB2	1.95	0.48
1:vC:65:ALA:HB1	1:vC:69:GLU:HB2	1.95	0.48
2:xd:177:ASP:O	2:xd:181:ARG:HG2	2.13	0.48
1:0D:40:ALA:HA	1:0D:43:VAL:HG12	1.95	0.48
2:1c:171:GLU:HG2	1:jB:93:MET:HE3	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3A:97:TYR:HH	2:4a:174:VAL:HG22	1.78	0.48
1:3D:40:ALA:HA	1:3D:43:VAL:HG12	1.95	0.48
2:4b:116:ILE:HG13	2:rc:163:LEU:HB3	1.94	0.48
1:6D:40:ALA:HA	1:6D:43:VAL:HG12	1.95	0.48
1:AD:40:ALA:HA	1:AD:43:VAL:HG12	1.95	0.48
1:CC:65:ALA:HB1	1:CC:69:GLU:HB2	1.95	0.48
2:Ec:167:PRO:HD2	1:dB:93:MET:HE2	1.94	0.48
1:HC:65:ALA:HB1	1:HC:69:GLU:HB2	1.95	0.48
1:JB:43:VAL:HG13	2:Nd:173:PRO:HG3	1.94	0.48
2:Jd:177:ASP:O	2:Jd:181:ARG:HG2	2.13	0.48
1:MD:40:ALA:HA	1:MD:43:VAL:HG12	1.95	0.48
2:Od:177:ASP:O	2:Od:181:ARG:HG2	2.13	0.48
1:PC:65:ALA:HB1	1:PC:69:GLU:HB2	1.95	0.48
1:QC:65:ALA:HB1	1:QC:69:GLU:HB2	1.95	0.48
1:SC:65:ALA:HB1	1:SC:69:GLU:HB2	1.95	0.48
2:Sd:177:ASP:O	2:Sd:181:ARG:HG2	2.13	0.48
2:dd:177:ASP:O	2:dd:181:ARG:HG2	2.13	0.48
1:hD:40:ALA:HA	1:hD:43:VAL:HG12	1.95	0.48
2:pd:177:ASP:O	2:pd:181:ARG:HG2	2.13	0.48
1:QD:40:ALA:HA	1:QD:43:VAL:HG12	1.95	0.48
1:VD:40:ALA:HA	1:VD:43:VAL:HG12	1.95	0.48
2:Vd:177:ASP:O	2:Vd:181:ARG:HG2	2.13	0.48
2:Wd:177:ASP:O	2:Wd:181:ARG:HG2	2.13	0.48
2:cd:177:ASP:O	2:cd:181:ARG:HG2	2.13	0.48
1:fB:56:LYS:NZ	2:id:185:ILE:O	2.34	0.48
2:fd:177:ASP:O	2:fd:181:ARG:HG2	2.13	0.48
2:od:173:PRO:HG3	1:pB:43:VAL:HG13	1.94	0.48
1:pC:65:ALA:HB1	1:pC:69:GLU:HB2	1.95	0.48
1:OC:65:ALA:HB1	1:OC:69:GLU:HB2	1.95	0.48
2:4c:158:GLY:O	2:Ab:114:ILE:HG22	2.14	0.48
2:7c:163:LEU:HB3	2:Nb:116:ILE:HG13	1.96	0.48
2:Bd:177:ASP:O	2:Bd:181:ARG:HG2	2.13	0.48
1:CD:40:ALA:HA	1:CD:43:VAL:HG12	1.95	0.48
1:MC:65:ALA:HB1	1:MC:69:GLU:HB2	1.95	0.48
1:RB:55:ARG:O	1:RB:55:ARG:HD3	2.14	0.48
1:cB:55:ARG:O	1:cB:55:ARG:HD3	2.14	0.48
1:dB:55:ARG:O	1:dB:55:ARG:HD3	2.14	0.48
2:hd:177:ASP:O	2:hd:181:ARG:HG2	2.13	0.48
1:iB:55:ARG:O	1:iB:55:ARG:HD3	2.14	0.48
1:nC:65:ALA:HB1	1:nC:69:GLU:HB2	1.95	0.48
1:qD:40:ALA:HA	1:qD:43:VAL:HG12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:td:177:ASP:O	2:td:181:ARG:HG2	2.13	0.48
1:uD:40:ALA:HA	1:uD:43:VAL:HG12	1.95	0.48
1:2C:65:ALA:HB1	1:2C:69:GLU:HB2	1.95	0.48
1:2D:40:ALA:HA	1:2D:43:VAL:HG12	1.95	0.48
1:5B:55:ARG:O	1:5B:55:ARG:HD3	2.14	0.48
1:AB:56:LYS:NZ	2:kd:185:ILE:O	2.36	0.48
2:Qd:177:ASP:O	2:Qd:181:ARG:HG2	2.13	0.48
1:VB:55:ARG:O	1:VB:55:ARG:HD3	2.14	0.48
1:WB:55:ARG:O	1:WB:55:ARG:HD3	2.14	0.48
2:Yd:177:ASP:O	2:Yd:181:ARG:HG2	2.13	0.48
2:md:177:ASP:O	2:md:181:ARG:HG2	2.13	0.48
1:pB:55:ARG:O	1:pB:55:ARG:HD3	2.14	0.48
2:2c:167:PRO:HD2	1:hB:93:MET:HE2	1.94	0.48
2:4d:177:ASP:O	2:4d:181:ARG:HG2	2.13	0.48
2:Id:177:ASP:O	2:Id:181:ARG:HG2	2.13	0.48
1:KD:40:ALA:HA	1:KD:43:VAL:HG12	1.95	0.48
1:SD:40:ALA:HA	1:SD:43:VAL:HG12	1.95	0.48
2:Sd:134:ARG:HH22	2:Tc:118:GLU:HG3	1.79	0.48
1:eD:40:ALA:HA	1:eD:43:VAL:HG12	1.95	0.48
1:fD:40:ALA:HA	1:fD:43:VAL:HG12	1.95	0.48
2:rd:177:ASP:O	2:rd:181:ARG:HG2	2.13	0.48
1:yD:40:ALA:HA	1:yD:43:VAL:HG12	1.95	0.48
1:0B:55:ARG:O	1:0B:55:ARG:HD3	2.14	0.48
2:0d:177:ASP:O	2:0d:181:ARG:HG2	2.13	0.48
2:1d:177:ASP:O	2:1d:181:ARG:HG2	2.13	0.48
2:2d:134:ARG:HH22	2:Ic:118:GLU:HG3	1.79	0.48
2:6d:177:ASP:O	2:6d:181:ARG:HG2	2.13	0.48
1:7C:65:ALA:HB1	1:7C:69:GLU:HB2	1.95	0.48
2:Hc:167:PRO:HD2	1:OB:93:MET:HE2	1.94	0.48
1:LB:55:ARG:O	1:LB:55:ARG:HD3	2.14	0.48
1:MB:55:ARG:O	1:MB:55:ARG:HD3	2.14	0.48
2:Md:177:ASP:O	2:Md:181:ARG:HG2	2.13	0.48
2:Pd:177:ASP:O	2:Pd:181:ARG:HG2	2.13	0.48
1:TD:40:ALA:HA	1:TD:43:VAL:HG12	1.95	0.48
2:Wd:134:ARG:HH22	2:Xc:118:GLU:HG3	1.79	0.48
2:Zc:118:GLU:HG3	2:dd:134:ARG:HH22	1.79	0.48
2:ad:177:ASP:O	2:ad:181:ARG:HG2	2.13	0.48
2:cc:167:PRO:HD2	1:xB:93:MET:HE2	1.95	0.48
2:dc:134:ARG:HH12	2:fb:118:GLU:CD	2.21	0.48
1:eB:93:MET:HE2	2:xc:167:PRO:HD2	1.95	0.48
1:iC:65:ALA:HB1	1:iC:69:GLU:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:qC:65:ALA:HB1	1:qC:69:GLU:HB2	1.95	0.48
1:zB:55:ARG:O	1:zB:55:ARG:HD3	2.14	0.48
2:Gc:118:GLU:HG3	2:Hd:134:ARG:HH22	1.79	0.48
1:QB:55:ARG:O	1:QB:55:ARG:HD3	2.14	0.48
1:YB:55:ARG:O	1:YB:55:ARG:HD3	2.14	0.48
1:aB:55:ARG:O	1:aB:55:ARG:HD3	2.14	0.48
1:bB:55:ARG:O	1:bB:55:ARG:HD3	2.14	0.48
2:ed:177:ASP:O	2:ed:181:ARG:HG2	2.13	0.48
1:gC:65:ALA:HB1	1:gC:69:GLU:HB2	1.95	0.48
1:hB:55:ARG:O	1:hB:55:ARG:HD3	2.14	0.48
2:id:177:ASP:O	2:id:181:ARG:HG2	2.13	0.48
2:jd:177:ASP:O	2:jd:181:ARG:HG2	2.13	0.48
2:ld:177:ASP:O	2:ld:181:ARG:HG2	2.13	0.48
2:pd:173:PRO:HG3	1:qB:43:VAL:HG13	1.94	0.48
2:ud:134:ARG:HH22	2:vc:118:GLU:HG3	1.79	0.48
2:vd:177:ASP:O	2:vd:181:ARG:HG2	2.13	0.48
1:4B:55:ARG:O	1:4B:55:ARG:HD3	2.14	0.47
2:4a:129:GLY:HA3	2:4a:179:LEU:HD21	1.96	0.47
1:6C:65:ALA:HB1	1:6C:69:GLU:HB2	1.95	0.47
2:Da:129:GLY:HA3	2:Da:179:LEU:HD21	1.96	0.47
1:EB:55:ARG:O	1:EB:55:ARG:HD3	2.14	0.47
2:Md:143:LEU:HD11	1:NB:63:ILE:HB	1.95	0.47
1:RC:65:ALA:HB1	1:RC:69:GLU:HB2	1.95	0.47
2:Rd:177:ASP:O	2:Rd:181:ARG:HG2	2.13	0.47
2:Td:177:ASP:O	2:Td:181:ARG:HG2	2.13	0.47
1:UB:55:ARG:O	1:UB:55:ARG:HD3	2.14	0.47
1:UD:40:ALA:HA	1:UD:43:VAL:HG12	1.95	0.47
2:Xd:170:TRP:CD1	2:Xd:171:GLU:HG3	2.49	0.47
2:Zd:170:TRP:CD1	2:Zd:171:GLU:HG3	2.49	0.47
2:gd:177:ASP:O	2:gd:181:ARG:HG2	2.13	0.47
1:jC:65:ALA:HB1	1:jC:69:GLU:HB2	1.95	0.47
1:kB:93:MET:HE2	2:nc:167:PRO:HD2	1.94	0.47
1:lC:65:ALA:HB1	1:lC:69:GLU:HB2	1.95	0.47
2:nc:118:GLU:HG3	2:rd:134:ARG:HH22	1.79	0.47
1:qB:55:ARG:O	1:qB:55:ARG:HD3	2.14	0.47
1:rD:92:GLU:OE1	2:rb:134:ARG:NH2	2.41	0.47
2:sd:170:TRP:CD1	2:sd:171:GLU:HG3	2.49	0.47
1:vD:40:ALA:HA	1:vD:43:VAL:HG12	1.95	0.47
2:wa:129:GLY:HA3	2:wa:179:LEU:HD21	1.96	0.47
2:wd:177:ASP:O	2:wd:181:ARG:HG2	2.13	0.47
2:xd:134:ARG:HH22	2:yc:118:GLU:HG3	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0c:134:ARG:NH2	2:nb:118:GLU:OE2	2.38	0.47
1:2B:55:ARG:O	1:2B:55:ARG:HD3	2.14	0.47
1:4C:65:ALA:HB1	1:4C:69:GLU:HB2	1.95	0.47
1:5D:40:ALA:HA	1:5D:43:VAL:HG12	1.95	0.47
2:6c:149:ASP:OD1	2:6c:150:CYS:N	2.48	0.47
2:7d:177:ASP:O	2:7d:181:ARG:HG2	2.13	0.47
2:Ad:177:ASP:O	2:Ad:181:ARG:HG2	2.13	0.47
2:Cd:134:ARG:HH22	2:Dc:118:GLU:HG3	1.79	0.47
1:DD:40:ALA:HA	1:DD:43:VAL:HG12	1.95	0.47
2:Dd:177:ASP:O	2:Dd:181:ARG:HG2	2.13	0.47
2:Ea:129:GLY:HA3	2:Ea:179:LEU:HD21	1.97	0.47
2:Ed:177:ASP:O	2:Ed:181:ARG:HG2	2.13	0.47
2:Fa:129:GLY:HA3	2:Fa:179:LEU:HD21	1.96	0.47
2:Fd:170:TRP:CD1	2:Fd:171:GLU:HG3	2.50	0.47
2:Fd:177:ASP:O	2:Fd:181:ARG:HG2	2.13	0.47
2:Hc:118:GLU:HG3	2:Id:134:ARG:HH22	1.80	0.47
2:Ic:149:ASP:OD1	2:Ic:150:CYS:N	2.48	0.47
2:Od:170:TRP:CD1	2:Od:171:GLU:HG3	2.49	0.47
1:PD:40:ALA:HA	1:PD:43:VAL:HG12	1.95	0.47
2:Rd:170:TRP:CD1	2:Rd:171:GLU:HG3	2.50	0.47
2:Tc:149:ASP:OD1	2:Tc:150:CYS:N	2.48	0.47
2:Va:129:GLY:HA3	2:Va:179:LEU:HD21	1.96	0.47
2:Wc:149:ASP:OD1	2:Wc:150:CYS:N	2.48	0.47
2:dc:149:ASP:OD1	2:dc:150:CYS:N	2.48	0.47
1:eD:69:GLU:HG3	1:gA:75:ALA:HB1	1.96	0.47
2:ec:149:ASP:OD1	2:ec:150:CYS:N	2.48	0.47
2:id:170:TRP:CD1	2:id:171:GLU:HG3	2.50	0.47
1:jB:55:ARG:O	1:jB:55:ARG:HD3	2.14	0.47
2:la:129:GLY:HA3	2:la:179:LEU:HD21	1.96	0.47
1:mD:40:ALA:HA	1:mD:43:VAL:HG12	1.95	0.47
2:na:118:GLU:CD	2:oa:134:ARG:NH2	2.70	0.47
2:nc:149:ASP:OD1	2:nc:150:CYS:N	2.48	0.47
1:pD:40:ALA:HA	1:pD:43:VAL:HG12	1.95	0.47
2:rc:149:ASP:OD1	2:rc:150:CYS:N	2.48	0.47
2:sa:129:GLY:HA3	2:sa:179:LEU:HD21	1.97	0.47
1:tB:55:ARG:O	1:tB:55:ARG:HD3	2.14	0.47
2:va:129:GLY:HA3	2:va:179:LEU:HD21	1.97	0.47
1:wB:55:ARG:O	1:wB:55:ARG:HD3	2.14	0.47
2:yc:149:ASP:OD1	2:yc:150:CYS:N	2.48	0.47
1:zC:65:ALA:HB1	1:zC:69:GLU:HB2	1.95	0.47
2:0b:118:GLU:CD	2:kc:134:ARG:HH12	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0d:170:TRP:CD1	2:0d:171:GLU:HG3	2.49	0.47
2:1c:149:ASP:OD1	2:1c:150:CYS:N	2.48	0.47
2:3c:118:GLU:HG3	2:0d:134:ARG:HH22	1.79	0.47
2:3d:170:TRP:CD1	2:3d:171:GLU:HG3	2.49	0.47
1:6B:55:ARG:O	1:6B:55:ARG:HD3	2.14	0.47
2:6c:118:GLU:HG3	2:Pd:134:ARG:HH22	1.79	0.47
2:Aa:117:TYR:HB2	2:la:164:VAL:HG22	1.96	0.47
1:BB:55:ARG:O	1:BB:55:ARG:HD3	2.14	0.47
2:Hc:149:ASP:OD1	2:Hc:150:CYS:N	2.48	0.47
2:Id:170:TRP:CD1	2:Id:171:GLU:HG3	2.50	0.47
2:Kd:170:TRP:CD1	2:Kd:171:GLU:HG3	2.49	0.47
2:Nc:149:ASP:OD1	2:Nc:150:CYS:N	2.48	0.47
2:Nd:177:ASP:O	2:Nd:181:ARG:HG2	2.13	0.47
2:Pc:149:ASP:OD1	2:Pc:150:CYS:N	2.48	0.47
2:Qd:170:TRP:CD1	2:Qd:171:GLU:HG3	2.49	0.47
2:Sc:149:ASP:OD1	2:Sc:150:CYS:N	2.48	0.47
1:XB:55:ARG:O	1:XB:55:ARG:HD3	2.14	0.47
1:aA:97:TYR:OH	2:ba:174:VAL:HG22	2.14	0.47
1:bD:40:ALA:HA	1:bD:43:VAL:HG12	1.95	0.47
2:ca:129:GLY:HA3	2:ca:179:LEU:HD21	1.96	0.47
2:cc:149:ASP:OD1	2:cc:150:CYS:N	2.48	0.47
2:fc:149:ASP:OD1	2:fc:150:CYS:N	2.48	0.47
2:jc:118:GLU:HG3	2:md:134:ARG:HH22	1.79	0.47
2:jc:149:ASP:OD1	2:jc:150:CYS:N	2.48	0.47
2:kd:170:TRP:CD1	2:kd:171:GLU:HG3	2.50	0.47
1:lB:55:ARG:O	1:lB:55:ARG:HD3	2.14	0.47
2:mc:149:ASP:OD1	2:mc:150:CYS:N	2.48	0.47
2:nd:170:TRP:CD1	2:nd:171:GLU:HG3	2.49	0.47
2:oa:129:GLY:HA3	2:oa:179:LEU:HD21	1.96	0.47
2:rd:170:TRP:CD1	2:rd:171:GLU:HG3	2.49	0.47
1:uD:36:PHE:N	1:vD:38:TYR:HH	2.11	0.47
2:vd:134:ARG:HH22	2:wc:118:GLU:HG3	1.79	0.47
1:zD:40:ALA:HA	1:zD:43:VAL:HG12	1.95	0.47
2:3d:134:ARG:HH22	2:4c:118:GLU:HG3	1.80	0.47
2:4d:170:TRP:CD1	2:4d:171:GLU:HG3	2.49	0.47
2:5c:118:GLU:HG3	2:Gd:134:ARG:HH22	1.80	0.47
1:7B:43:VAL:HG13	2:Td:173:PRO:HG3	1.95	0.47
2:Ad:170:TRP:CD1	2:Ad:171:GLU:HG3	2.49	0.47
2:Ba:129:GLY:HA3	2:Ba:179:LEU:HD21	1.96	0.47
1:EB:93:MET:HE3	2:fc:171:GLU:HG2	1.97	0.47
1:FB:55:ARG:O	1:FB:55:ARG:HD3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GD:40:ALA:HA	1:GD:43:VAL:HG12	1.95	0.47
2:Hd:170:TRP:CD1	2:Hd:171:GLU:HG3	2.50	0.47
2:Kc:149:ASP:OD1	2:Kc:150:CYS:N	2.48	0.47
1:LC:65:ALA:HB1	1:LC:69:GLU:HB2	1.95	0.47
1:LD:40:ALA:HA	1:LD:43:VAL:HG12	1.95	0.47
2:Mc:149:ASP:OD1	2:Mc:150:CYS:N	2.48	0.47
2:Md:170:TRP:CD1	2:Md:171:GLU:HG3	2.49	0.47
2:Oc:149:ASP:OD1	2:Oc:150:CYS:N	2.48	0.47
2:Pa:129:GLY:HA3	2:Pa:179:LEU:HD21	1.96	0.47
1:TB:55:ARG:O	1:TB:55:ARG:HD3	2.14	0.47
2:Tc:167:PRO:HD2	1:VB:93:MET:HE2	1.94	0.47
2:Vc:149:ASP:OD1	2:Vc:150:CYS:N	2.48	0.47
2:Wd:170:TRP:CD1	2:Wd:171:GLU:HG3	2.49	0.47
2:Xc:149:ASP:OD1	2:Xc:150:CYS:N	2.48	0.47
1:ZB:55:ARG:O	1:ZB:55:ARG:HD3	2.14	0.47
2:ba:129:GLY:HA3	2:ba:179:LEU:HD21	1.96	0.47
2:cd:170:TRP:CD1	2:cd:171:GLU:HG3	2.49	0.47
1:eB:55:ARG:O	1:eB:55:ARG:HD3	2.14	0.47
2:ea:129:GLY:HA3	2:ea:179:LEU:HD21	1.96	0.47
2:ma:129:GLY:HA3	2:ma:179:LEU:HD21	1.96	0.47
2:oc:149:ASP:OD1	2:oc:150:CYS:N	2.48	0.47
1:qD:36:PHE:N	1:rD:38:TYR:HH	2.11	0.47
2:qa:129:GLY:HA3	2:qa:179:LEU:HD21	1.96	0.47
2:sd:177:ASP:O	2:sd:181:ARG:HG2	2.13	0.47
2:tc:149:ASP:OD1	2:tc:150:CYS:N	2.48	0.47
2:ua:129:GLY:HA3	2:ua:179:LEU:HD21	1.96	0.47
1:xD:40:ALA:HA	1:xD:43:VAL:HG12	1.95	0.47
2:ya:129:GLY:HA3	2:ya:179:LEU:HD21	1.96	0.47
2:yd:170:TRP:CD1	2:yd:171:GLU:HG3	2.50	0.47
2:0c:149:ASP:OD1	2:0c:150:CYS:N	2.48	0.47
1:1B:55:ARG:O	1:1B:55:ARG:HD3	2.14	0.47
2:1d:170:TRP:CD1	2:1d:171:GLU:HG3	2.49	0.47
2:3d:177:ASP:O	2:3d:181:ARG:HG2	2.13	0.47
2:6d:134:ARG:HH22	2:Oc:118:GLU:HG3	1.80	0.47
2:7a:134:ARG:HH22	2:Ta:118:GLU:CD	2.11	0.47
2:7b:136:ASN:HD21	2:7b:193:ASP:CB	2.28	0.47
2:Bc:149:ASP:OD1	2:Bc:150:CYS:N	2.48	0.47
2:Ca:129:GLY:HA3	2:Ca:179:LEU:HD21	1.97	0.47
2:Dd:134:ARG:HH22	2:Ec:118:GLU:HG3	1.80	0.47
1:ED:40:ALA:HA	1:ED:43:VAL:HG12	1.95	0.47
2:Ga:129:GLY:HA3	2:Ga:179:LEU:HD21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ID:92:GLU:OE1	2:Ib:134:ARG:NH2	2.41	0.47
1:JB:55:ARG:O	1:JB:55:ARG:HD3	2.14	0.47
1:JD:40:ALA:HA	1:JD:43:VAL:HG12	1.95	0.47
2:Ja:117:TYR:HB2	2:Ka:164:VAL:HG22	1.95	0.47
2:Ja:129:GLY:HA3	2:Ja:179:LEU:HD21	1.97	0.47
2:Ka:129:GLY:HA3	2:Ka:179:LEU:HD21	1.96	0.47
1:NB:55:ARG:O	1:NB:55:ARG:HD3	2.14	0.47
2:Nd:170:TRP:CD1	2:Nd:171:GLU:HG3	2.50	0.47
2:Rc:149:ASP:OD1	2:Rc:150:CYS:N	2.48	0.47
2:Ua:129:GLY:HA3	2:Ua:179:LEU:HD21	1.96	0.47
2:Vd:170:TRP:CD1	2:Vd:171:GLU:HG3	2.50	0.47
2:Zc:149:ASP:OD1	2:Zc:150:CYS:N	2.48	0.47
2:ad:170:TRP:CD1	2:ad:171:GLU:HG3	2.49	0.47
2:hd:170:TRP:CD1	2:hd:171:GLU:HG3	2.50	0.47
2:jd:134:ARG:HH22	2:kc:118:GLU:HG3	1.80	0.47
2:kc:149:ASP:OD1	2:kc:150:CYS:N	2.48	0.47
2:ld:170:TRP:CD1	2:ld:171:GLU:HG3	2.49	0.47
1:oD:40:ALA:HA	1:oD:43:VAL:HG12	1.95	0.47
1:pD:92:GLU:OE1	2:pb:134:ARG:NH2	2.41	0.47
2:qd:170:TRP:CD1	2:qd:171:GLU:HG3	2.49	0.47
1:sB:55:ARG:O	1:sB:55:ARG:HD3	2.14	0.47
2:sc:118:GLU:HG3	2:wd:134:ARG:HH22	1.79	0.47
2:ta:129:GLY:HA3	2:ta:179:LEU:HD21	1.97	0.47
2:xa:129:GLY:HA3	2:xa:179:LEU:HD21	1.96	0.47
1:0D:92:GLU:OE1	2:0b:134:ARG:NH2	2.42	0.47
2:2a:129:GLY:HA3	2:2a:179:LEU:HD21	1.97	0.47
2:2d:170:TRP:CD1	2:2d:171:GLU:HG3	2.50	0.47
2:5b:136:ASN:HD21	2:5b:193:ASP:CB	2.28	0.47
1:CB:55:ARG:O	1:CB:55:ARG:HD3	2.14	0.47
2:Gc:149:ASP:OD1	2:Gc:150:CYS:N	2.48	0.47
2:Ta:129:GLY:HA3	2:Ta:179:LEU:HD21	1.97	0.47
2:Uc:149:ASP:OD1	2:Uc:150:CYS:N	2.48	0.47
2:Ud:134:ARG:HH22	2:Vc:118:GLU:HG3	1.79	0.47
1:VD:92:GLU:OE1	2:Vb:134:ARG:NH2	2.42	0.47
2:Yd:170:TRP:CD1	2:Yd:171:GLU:HG3	2.49	0.47
2:da:129:GLY:HA3	2:da:179:LEU:HD21	1.97	0.47
2:dd:170:TRP:CD1	2:dd:171:GLU:HG3	2.50	0.47
2:ga:129:GLY:HA3	2:ga:179:LEU:HD21	1.96	0.47
2:gb:136:ASN:HD21	2:gb:193:ASP:CB	2.28	0.47
2:gd:134:ARG:HH22	2:hc:118:GLU:HG3	1.79	0.47
2:ic:149:ASP:OD1	2:ic:150:CYS:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pb:136:ASN:HD21	2:pb:193:ASP:CB	2.28	0.47
1:sC:65:ALA:HB1	1:sC:69:GLU:HB2	1.95	0.47
1:wD:40:ALA:HA	1:wD:43:VAL:HG12	1.95	0.47
1:xB:55:ARG:O	1:xB:55:ARG:HD3	2.14	0.47
2:0c:171:GLU:HG2	1:nB:93:MET:HE3	1.97	0.47
2:3c:149:ASP:OD1	2:3c:150:CYS:N	2.48	0.47
1:5D:92:GLU:OE1	2:5b:134:ARG:NH2	2.42	0.47
2:5c:149:ASP:OD1	2:5c:150:CYS:N	2.48	0.47
2:6d:170:TRP:CD1	2:6d:171:GLU:HG3	2.49	0.47
1:7B:55:ARG:O	1:7B:55:ARG:HD3	2.14	0.47
2:7a:129:GLY:HA3	2:7a:179:LEU:HD21	1.96	0.47
2:Aa:129:GLY:HA3	2:Aa:179:LEU:HD21	1.96	0.47
2:Ac:149:ASP:OD1	2:Ac:150:CYS:N	2.48	0.47
2:Ec:149:ASP:OD1	2:Ec:150:CYS:N	2.48	0.47
1:FC:65:ALA:HB1	1:FC:69:GLU:HB2	1.95	0.47
2:Gb:136:ASN:HD21	2:Gb:193:ASP:CB	2.28	0.47
2:Ha:129:GLY:HA3	2:Ha:179:LEU:HD21	1.97	0.47
1:IB:55:ARG:O	1:IB:55:ARG:HD3	2.14	0.47
2:Kc:127:ARG:HA	2:Kc:160:ASP:HB3	1.97	0.47
2:Lb:136:ASN:HD21	2:Lb:193:ASP:CB	2.28	0.47
2:Lc:127:ARG:HA	2:Lc:160:ASP:HB3	1.97	0.47
1:MD:92:GLU:OE1	2:Mb:134:ARG:NH2	2.41	0.47
2:Ma:118:GLU:CD	2:Na:134:ARG:NH2	2.72	0.47
2:Ob:136:ASN:HD21	2:Ob:193:ASP:CB	2.28	0.47
2:Qb:136:ASN:HD21	2:Qb:193:ASP:CB	2.28	0.47
2:Ub:136:ASN:HD21	2:Ub:193:ASP:CB	2.28	0.47
2:Vb:136:ASN:HD21	2:Vb:193:ASP:CB	2.28	0.47
2:Vd:134:ARG:HH22	2:Wc:118:GLU:HG3	1.79	0.47
2:Wa:129:GLY:HA3	2:Wa:179:LEU:HD21	1.97	0.47
2:Xd:134:ARG:HH22	2:Yc:118:GLU:HG3	1.80	0.47
1:YD:92:GLU:CD	2:Yb:134:ARG:HH22	2.23	0.47
2:Yb:136:ASN:HD21	2:Yb:193:ASP:CB	2.28	0.47
1:ZD:92:GLU:OE1	2:Zb:134:ARG:NH2	2.42	0.47
2:Zd:134:ARG:HH22	2:ac:118:GLU:HG3	1.80	0.47
1:aD:92:GLU:CD	2:ab:134:ARG:HH22	2.23	0.47
2:ab:136:ASN:HD21	2:ab:193:ASP:CB	2.28	0.47
2:bb:136:ASN:HD21	2:bb:193:ASP:CB	2.28	0.47
2:bc:149:ASP:OD1	2:bc:150:CYS:N	2.48	0.47
1:cD:92:GLU:OE1	2:cb:134:ARG:NH2	2.41	0.47
2:cd:134:ARG:HH22	2:dc:118:GLU:HG3	1.80	0.47
2:dc:163:LEU:HB3	2:fb:116:ILE:HG13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hb:136:ASN:HD21	2:hb:193:ASP:CB	2.28	0.47
2:ib:136:ASN:HD21	2:ib:193:ASP:CB	2.28	0.47
2:jd:170:TRP:CD1	2:jd:171:GLU:HG3	2.49	0.47
2:kb:136:ASN:HD21	2:kb:193:ASP:CB	2.28	0.47
2:mb:136:ASN:HD21	2:mb:193:ASP:CB	2.28	0.47
2:ob:136:ASN:HD21	2:ob:193:ASP:CB	2.28	0.47
2:pc:149:ASP:OD1	2:pc:150:CYS:N	2.48	0.47
1:qD:92:GLU:OE1	2:qb:134:ARG:NH2	2.41	0.47
2:sc:149:ASP:OD1	2:sc:150:CYS:N	2.48	0.47
2:sd:143:LEU:HD11	1:tB:63:ILE:HB	1.96	0.47
1:uB:55:ARG:O	1:uB:55:ARG:HD3	2.14	0.47
2:wc:149:ASP:OD1	2:wc:150:CYS:N	2.47	0.47
2:yc:127:ARG:HA	2:yc:160:ASP:HB3	1.97	0.47
2:zb:136:ASN:HD21	2:zb:193:ASP:CB	2.28	0.47
2:zc:127:ARG:HA	2:zc:160:ASP:HB3	1.97	0.47
1:2D:92:GLU:OE1	2:2b:134:ARG:NH2	2.41	0.47
2:2c:149:ASP:OD1	2:2c:150:CYS:N	2.48	0.47
2:4c:149:ASP:OD1	2:4c:150:CYS:N	2.48	0.47
1:7D:50:LEU:HD21	2:Qa:177:ASP:HA	1.96	0.47
2:7c:149:ASP:OD1	2:7c:150:CYS:N	2.48	0.47
2:Fc:149:ASP:OD1	2:Fc:150:CYS:N	2.48	0.47
1:GB:55:ARG:O	1:GB:55:ARG:HD3	2.14	0.47
1:KB:55:ARG:O	1:KB:55:ARG:HD3	2.14	0.47
2:Kb:136:ASN:HD21	2:Kb:193:ASP:CB	2.28	0.47
1:LD:92:GLU:CD	2:Lb:134:ARG:HH22	2.23	0.47
2:Nb:136:ASN:HD21	2:Nb:193:ASP:CB	2.28	0.47
2:Rb:136:ASN:HD21	2:Rb:193:ASP:CB	2.28	0.47
1:SB:55:ARG:O	1:SB:55:ARG:HD3	2.14	0.47
2:Sc:127:ARG:HA	2:Sc:160:ASP:HB3	1.97	0.47
2:Yc:149:ASP:OD1	2:Yc:150:CYS:N	2.48	0.47
2:ac:149:ASP:OD1	2:ac:150:CYS:N	2.48	0.47
1:fB:55:ARG:O	1:fB:55:ARG:HD3	2.14	0.47
1:pA:97:TYR:OH	2:qa:174:VAL:HG22	2.15	0.47
2:qc:149:ASP:OD1	2:qc:150:CYS:N	2.47	0.47
1:rB:55:ARG:O	1:rB:55:ARG:HD3	2.14	0.47
2:sb:136:ASN:HD21	2:sb:193:ASP:CB	2.28	0.47
2:3a:129:GLY:HA3	2:3a:179:LEU:HD21	1.97	0.47
2:3c:127:ARG:HA	2:3c:160:ASP:HB3	1.97	0.47
2:5d:170:TRP:CD1	2:5d:171:GLU:HG3	2.49	0.47
2:Db:136:ASN:HD21	2:Db:193:ASP:CB	2.28	0.47
2:Eb:136:ASN:HD21	2:Eb:193:ASP:CB	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FD:92:GLU:CD	2:Fb:134:ARG:HH22	2.23	0.47
2:Ia:129:GLY:HA3	2:Ia:179:LEU:HD21	1.96	0.47
1:PB:55:ARG:O	1:PB:55:ARG:HD3	2.14	0.47
1:PD:92:GLU:CD	2:Pb:134:ARG:HH22	2.23	0.47
2:Pb:136:ASN:HD21	2:Pb:193:ASP:CB	2.28	0.47
2:Rc:127:ARG:HA	2:Rc:160:ASP:HB3	1.97	0.47
2:Rd:134:ARG:HH22	2:Sc:118:GLU:HG3	1.79	0.47
2:Sd:170:TRP:CD1	2:Sd:171:GLU:HG3	2.49	0.47
1:XD:92:GLU:OE1	2:Xb:134:ARG:NH2	2.42	0.47
2:fd:170:TRP:CD1	2:fd:171:GLU:HG3	2.50	0.47
1:gB:55:ARG:O	1:gB:55:ARG:HD3	2.14	0.47
2:gc:149:ASP:OD1	2:gc:150:CYS:N	2.48	0.47
2:lc:149:ASP:OD1	2:lc:150:CYS:N	2.48	0.47
1:mD:92:GLU:CD	2:mb:134:ARG:HH22	2.23	0.47
2:na:129:GLY:HA3	2:na:179:LEU:HD21	1.97	0.47
2:pd:170:TRP:CD1	2:pd:171:GLU:HG3	2.49	0.47
2:ra:129:GLY:HA3	2:ra:179:LEU:HD21	1.96	0.47
2:xd:170:TRP:CD1	2:xd:171:GLU:HG3	2.49	0.47
1:zD:92:GLU:CD	2:zb:134:ARG:HH22	2.23	0.47
1:3B:55:ARG:O	1:3B:55:ARG:HD3	2.14	0.47
2:6a:129:GLY:HA3	2:6a:179:LEU:HD21	1.97	0.47
2:7d:193:ASP:O	1:QB:62:ILE:HD11	2.15	0.47
2:Ac:127:ARG:HA	2:Ac:160:ASP:HB3	1.97	0.47
1:DB:55:ARG:O	1:DB:55:ARG:HD3	2.14	0.47
2:Ec:127:ARG:HA	2:Ec:160:ASP:HB3	1.97	0.47
2:Ed:170:TRP:CD1	2:Ed:171:GLU:HG3	2.49	0.47
2:Jd:170:TRP:CD1	2:Jd:171:GLU:HG3	2.49	0.47
1:QB:93:MET:HE2	2:qc:167:PRO:HD2	1.96	0.47
2:Qc:127:ARG:HA	2:Qc:160:ASP:HB3	1.97	0.47
2:Td:170:TRP:CD1	2:Td:171:GLU:HG3	2.49	0.47
2:Ud:170:TRP:CD1	2:Ud:171:GLU:HG3	2.49	0.47
2:Zc:127:ARG:HA	2:Zc:160:ASP:HB3	1.97	0.47
2:fc:127:ARG:HA	2:fc:160:ASP:HB3	1.97	0.47
2:gc:127:ARG:HA	2:gc:160:ASP:HB3	1.97	0.47
2:hc:127:ARG:HA	2:hc:160:ASP:HB3	1.97	0.47
2:ja:129:GLY:HA3	2:ja:179:LEU:HD21	1.97	0.47
2:ka:129:GLY:HA3	2:ka:179:LEU:HD21	1.97	0.47
1:mB:55:ARG:O	1:mB:55:ARG:HD3	2.14	0.47
1:mD:62:ILE:HG22	1:mD:63:ILE:N	2.30	0.47
2:md:170:TRP:CD1	2:md:171:GLU:HG3	2.49	0.47
1:oB:55:ARG:O	1:oB:55:ARG:HD3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:wb:136:ASN:HD21	2:wb:193:ASP:CB	2.28	0.47
2:wd:170:TRP:CD1	2:wd:171:GLU:HG3	2.49	0.47
2:xc:149:ASP:OD1	2:xc:150:CYS:N	2.48	0.47
1:yB:55:ARG:O	1:yB:55:ARG:HD3	2.14	0.47
2:yb:136:ASN:HD21	2:yb:193:ASP:CB	2.28	0.47
1:zD:92:GLU:OE1	2:zb:134:ARG:NH2	2.41	0.47
2:0d:134:ARG:HH22	2:1c:118:GLU:HG3	1.80	0.46
1:1D:62:ILE:HG22	1:1D:63:ILE:N	2.31	0.46
1:4D:62:ILE:HG22	1:4D:63:ILE:N	2.31	0.46
2:5c:127:ARG:HA	2:5c:160:ASP:HB3	1.97	0.46
2:7c:127:ARG:HA	2:7c:160:ASP:HB3	1.97	0.46
2:Bd:170:TRP:CD1	2:Bd:171:GLU:HG3	2.50	0.46
2:Dd:170:TRP:CD1	2:Dd:171:GLU:HG3	2.50	0.46
2:Fb:136:ASN:HD21	2:Fb:193:ASP:CB	2.28	0.46
1:HB:55:ARG:O	1:HB:55:ARG:HD3	2.14	0.46
2:Mc:127:ARG:HA	2:Mc:160:ASP:HB3	1.97	0.46
1:ND:62:ILE:HG22	1:ND:63:ILE:N	2.31	0.46
2:Oa:129:GLY:HA3	2:Oa:179:LEU:HD21	1.97	0.46
1:PD:62:ILE:HG22	1:PD:63:ILE:N	2.31	0.46
2:Qc:149:ASP:OD1	2:Qc:150:CYS:N	2.48	0.46
1:RD:92:GLU:CD	2:Rb:134:ARG:HH22	2.23	0.46
1:VD:62:ILE:HG22	1:VD:63:ILE:N	2.30	0.46
1:WD:92:GLU:OE1	2:Wb:134:ARG:NH2	2.42	0.46
2:Xc:127:ARG:HA	2:Xc:160:ASP:HB3	1.97	0.46
2:Yc:127:ARG:HA	2:Yc:160:ASP:HB3	1.97	0.46
2:ac:127:ARG:HA	2:ac:160:ASP:HB3	1.97	0.46
2:ac:169:ALA:HA	2:ac:172:ILE:HG13	1.98	0.46
2:bc:169:ALA:HA	2:bc:172:ILE:HG13	1.97	0.46
1:dD:92:GLU:OE1	2:db:134:ARG:NH2	2.41	0.46
2:db:136:ASN:HD21	2:db:193:ASP:CB	2.28	0.46
2:ed:170:TRP:CD1	2:ed:171:GLU:HG3	2.50	0.46
2:gd:170:TRP:CD1	2:gd:171:GLU:HG3	2.49	0.46
2:hc:149:ASP:OD1	2:hc:150:CYS:N	2.48	0.46
2:hd:134:ARG:HH22	2:ic:118:GLU:HG3	1.79	0.46
2:ic:127:ARG:HA	2:ic:160:ASP:HB3	1.97	0.46
2:pc:127:ARG:HA	2:pc:160:ASP:HB3	1.97	0.46
1:sD:92:GLU:CD	2:sb:134:ARG:HH22	2.23	0.46
1:vB:55:ARG:O	1:vB:55:ARG:HD3	2.14	0.46
2:vb:136:ASN:HD21	2:vb:193:ASP:CB	2.28	0.46
2:wc:127:ARG:HA	2:wc:160:ASP:HB3	1.97	0.46
2:yD:134:ARG:HH22	2:zc:118:GLU:HG3	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0a:117:TYR:HB2	2:1a:164:VAL:HG22	1.97	0.46
2:1b:136:ASN:HD21	2:1b:193:ASP:CB	2.28	0.46
2:2c:118:GLU:HG3	2:5d:134:ARG:HH22	1.79	0.46
2:5c:134:ARG:HH12	2:Fb:118:GLU:CD	2.23	0.46
2:7d:170:TRP:CD1	2:7d:171:GLU:HG3	2.49	0.46
1:AB:55:ARG:O	1:AB:55:ARG:HD3	2.14	0.46
1:AD:62:ILE:HG22	1:AD:63:ILE:N	2.31	0.46
1:CD:62:ILE:HG22	1:CD:63:ILE:N	2.31	0.46
2:Cc:149:ASP:OD1	2:Cc:150:CYS:N	2.48	0.46
2:Dc:149:ASP:OD1	2:Dc:150:CYS:N	2.48	0.46
1:ED:62:ILE:HG22	1:ED:63:ILE:N	2.31	0.46
2:Ec:169:ALA:HA	2:Ec:172:ILE:HG13	1.98	0.46
1:GD:62:ILE:HG22	1:GD:63:ILE:N	2.31	0.46
2:Jc:149:ASP:OD1	2:Jc:150:CYS:N	2.48	0.46
2:Kd:134:ARG:HH22	2:Lc:118:GLU:HG3	1.79	0.46
1:OB:55:ARG:O	1:OB:55:ARG:HD3	2.14	0.46
2:Pd:170:TRP:CD1	2:Pd:171:GLU:HG3	2.50	0.46
2:Qd:134:ARG:HH22	2:Rc:118:GLU:HG3	1.79	0.46
2:Uc:169:ALA:HA	2:Uc:172:ILE:HG13	1.98	0.46
2:Xb:136:ASN:HD21	2:Xb:193:ASP:CB	2.28	0.46
1:YD:62:ILE:HG22	1:YD:63:ILE:N	2.31	0.46
2:Yc:169:ALA:HA	2:Yc:172:ILE:HG13	1.98	0.46
2:Za:129:GLY:HA3	2:Za:179:LEU:HD21	1.97	0.46
1:aD:62:ILE:HG22	1:aD:63:ILE:N	2.31	0.46
2:bd:170:TRP:CD1	2:bd:171:GLU:HG3	2.50	0.46
2:dc:169:ALA:HA	2:dc:172:ILE:HG13	1.97	0.46
1:iD:92:GLU:CD	2:ib:134:ARG:HH22	2.23	0.46
1:lD:62:ILE:HG22	1:lD:63:ILE:N	2.31	0.46
2:lc:169:ALA:HA	2:lc:172:ILE:HG13	1.98	0.46
2:oc:158:GLY:O	2:zb:114:ILE:HG22	2.15	0.46
2:td:170:TRP:CD1	2:td:171:GLU:HG3	2.49	0.46
2:vc:149:ASP:OD1	2:vc:150:CYS:N	2.48	0.46
2:vd:170:TRP:CD1	2:vd:171:GLU:HG3	2.50	0.46
1:wD:62:ILE:HG22	1:wD:63:ILE:N	2.31	0.46
1:xD:36:PHE:N	1:yD:38:TYR:HH	2.13	0.46
2:xc:127:ARG:HA	2:xc:160:ASP:HB3	1.97	0.46
2:0c:127:ARG:HA	2:0c:160:ASP:HB3	1.97	0.46
2:1c:169:ALA:HA	2:1c:172:ILE:HG13	1.97	0.46
1:3D:62:ILE:HG22	1:3D:63:ILE:N	2.31	0.46
2:7a:167:PRO:HG3	1:TA:92:GLU:OE2	2.15	0.46
2:Fc:127:ARG:HA	2:Fc:160:ASP:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Jc:127:ARG:HA	2:Jc:160:ASP:HB3	1.97	0.46
1:LD:92:GLU:OE1	2:Lb:134:ARG:NH2	2.41	0.46
2:Lc:149:ASP:OD1	2:Lc:150:CYS:N	2.48	0.46
2:Ld:134:ARG:HH22	2:Mc:118:GLU:HG3	1.79	0.46
2:Oc:127:ARG:HA	2:Oc:160:ASP:HB3	1.97	0.46
2:Wc:169:ALA:HA	2:Wc:172:ILE:HG13	1.97	0.46
2:Xa:129:GLY:HA3	2:Xa:179:LEU:HD21	1.97	0.46
2:Zb:136:ASN:HD21	2:Zb:193:ASP:CB	2.28	0.46
1:eC:93:MET:HE3	2:fd:171:GLU:OE1	2.15	0.46
2:fc:118:GLU:HG3	2:id:134:ARG:HH22	1.79	0.46
1:kB:55:ARG:O	1:kB:55:ARG:HD3	2.14	0.46
2:kc:127:ARG:HA	2:kc:160:ASP:HB3	1.97	0.46
1:nB:55:ARG:O	1:nB:55:ARG:HD3	2.14	0.46
1:oD:62:ILE:HG22	1:oD:63:ILE:N	2.31	0.46
1:oD:69:GLU:CG	1:pA:79:HIS:HE1	2.21	0.46
2:rc:169:ALA:HA	2:rc:172:ILE:HG13	1.97	0.46
1:uD:62:ILE:HG22	1:uD:63:ILE:N	2.31	0.46
2:uc:149:ASP:OD1	2:uc:150:CYS:N	2.48	0.46
2:wc:169:ALA:HA	2:wc:172:ILE:HG13	1.98	0.46
2:0a:129:GLY:HA3	2:0a:179:LEU:HD21	1.96	0.46
2:0c:167:PRO:HD2	1:nB:93:MET:HE2	1.97	0.46
2:3b:136:ASN:HD21	2:3b:193:ASP:CB	2.28	0.46
2:4c:127:ARG:HA	2:4c:160:ASP:HB3	1.97	0.46
2:4c:169:ALA:HA	2:4c:172:ILE:HG13	1.98	0.46
2:Gd:170:TRP:CD1	2:Gd:171:GLU:HG3	2.49	0.46
1:HD:92:GLU:CD	2:Hb:134:ARG:HH22	2.23	0.46
1:ID:62:ILE:HG22	1:ID:63:ILE:N	2.30	0.46
2:Ic:169:ALA:HA	2:Ic:172:ILE:HG13	1.98	0.46
1:MD:62:ILE:HG22	1:MD:63:ILE:N	2.31	0.46
2:Nc:169:ALA:HA	2:Nc:172:ILE:HG13	1.98	0.46
1:QD:62:ILE:HG22	1:QD:63:ILE:N	2.31	0.46
1:QD:92:GLU:OE1	2:Qb:134:ARG:NH2	2.41	0.46
2:Rc:169:ALA:HA	2:Rc:172:ILE:HG13	1.98	0.46
1:SD:62:ILE:HG22	1:SD:63:ILE:N	2.31	0.46
1:UD:62:ILE:HG22	1:UD:63:ILE:N	2.31	0.46
2:Vc:127:ARG:HA	2:Vc:160:ASP:HB3	1.97	0.46
1:WD:92:GLU:CD	2:Wb:134:ARG:HH22	2.23	0.46
1:aD:92:GLU:OE1	2:ab:134:ARG:NH2	2.42	0.46
1:bD:62:ILE:HG22	1:bD:63:ILE:N	2.31	0.46
1:cD:62:ILE:HG22	1:cD:63:ILE:N	2.31	0.46
2:cc:127:ARG:HA	2:cc:160:ASP:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fD:62:ILE:HG22	1:fD:63:ILE:N	2.31	0.46
1:hD:62:ILE:HG22	1:hD:63:ILE:N	2.31	0.46
2:ic:169:ALA:HA	2:ic:172:ILE:HG13	1.98	0.46
1:nD:92:GLU:CD	2:nb:134:ARG:HH22	2.23	0.46
2:od:170:TRP:CD1	2:od:171:GLU:HG3	2.49	0.46
2:sc:127:ARG:HA	2:sc:160:ASP:HB3	1.97	0.46
2:zc:149:ASP:OD1	2:zc:150:CYS:N	2.48	0.46
1:0D:62:ILE:HG22	1:0D:63:ILE:N	2.31	0.46
2:2b:136:ASN:HD21	2:2b:193:ASP:CB	2.28	0.46
2:5a:129:GLY:HA3	2:5a:179:LEU:HD21	1.96	0.46
2:6c:169:ALA:HA	2:6c:172:ILE:HG13	1.98	0.46
2:Ab:136:ASN:HD21	2:Ab:193:ASP:CB	2.28	0.46
1:HD:62:ILE:HG22	1:HD:63:ILE:N	2.31	0.46
1:JD:92:GLU:CD	2:Jb:134:ARG:HH22	2.23	0.46
2:Jb:136:ASN:HD21	2:Jb:193:ASP:CB	2.28	0.46
2:Ld:170:TRP:CD1	2:Ld:171:GLU:HG3	2.49	0.46
2:Qc:169:ALA:HA	2:Qc:172:ILE:HG13	1.98	0.46
2:Uc:118:GLU:HG3	2:Yd:134:ARG:HH22	1.79	0.46
2:Wc:127:ARG:HA	2:Wc:160:ASP:HB3	1.97	0.46
2:Ya:129:GLY:HA3	2:Ya:179:LEU:HD21	1.96	0.46
1:dD:92:GLU:CD	2:db:134:ARG:HH22	2.23	0.46
2:dc:127:ARG:HA	2:dc:160:ASP:HB3	1.97	0.46
1:eD:62:ILE:HG22	1:eD:63:ILE:N	2.31	0.46
2:gc:169:ALA:HA	2:gc:172:ILE:HG13	1.98	0.46
1:hD:92:GLU:OE1	2:hb:134:ARG:NH2	2.41	0.46
2:mc:169:ALA:HA	2:mc:172:ILE:HG13	1.98	0.46
1:nD:62:ILE:HG22	1:nD:63:ILE:N	2.31	0.46
2:pa:129:GLY:HA3	2:pa:179:LEU:HD21	1.97	0.46
2:qb:136:ASN:HD21	2:qb:193:ASP:CB	2.28	0.46
1:rD:62:ILE:HG22	1:rD:63:ILE:N	2.31	0.46
2:0c:149:ASP:HA	2:0c:152:VAL:HG12	1.98	0.46
2:4b:136:ASN:HD21	2:4b:193:ASP:CB	2.28	0.46
1:7D:62:ILE:HG22	1:7D:63:ILE:N	2.31	0.46
2:Cb:136:ASN:HD21	2:Cb:193:ASP:CB	2.28	0.46
2:Gc:169:ALA:HA	2:Gc:172:ILE:HG13	1.97	0.46
1:JD:62:ILE:HG22	1:JD:63:ILE:N	2.31	0.46
2:Jb:118:GLU:CD	2:Vc:134:ARG:HH12	2.23	0.46
1:MD:92:GLU:CD	2:Mb:134:ARG:HH22	2.23	0.46
2:Ma:129:GLY:HA3	2:Ma:179:LEU:HD21	1.96	0.46
1:OD:92:GLU:OE1	2:Ob:134:ARG:NH2	2.41	0.46
1:TD:62:ILE:HG22	1:TD:63:ILE:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bc:127:ARG:HA	2:bc:160:ASP:HB3	1.97	0.46
2:jc:169:ALA:HA	2:jc:172:ILE:HG13	1.98	0.46
2:lc:127:ARG:HA	2:lc:160:ASP:HB3	1.97	0.46
2:mc:127:ARG:HA	2:mc:160:ASP:HB3	1.97	0.46
2:rb:136:ASN:HD21	2:rb:193:ASP:CB	2.28	0.46
1:xD:92:GLU:CD	2:xb:134:ARG:HH22	2.23	0.46
2:zd:170:TRP:CD1	2:zd:171:GLU:HG3	2.50	0.46
2:1d:134:ARG:HH22	2:xc:118:GLU:HG3	1.80	0.46
2:6c:127:ARG:HA	2:6c:160:ASP:HB3	1.97	0.46
2:7c:169:ALA:HA	2:7c:172:ILE:HG13	1.98	0.46
2:Cd:170:TRP:CD1	2:Cd:171:GLU:HG3	2.49	0.46
1:DD:62:ILE:HG22	1:DD:63:ILE:N	2.30	0.46
2:Dc:169:ALA:HA	2:Dc:172:ILE:HG13	1.97	0.46
2:Gc:127:ARG:HA	2:Gc:160:ASP:HB3	1.97	0.46
1:HD:92:GLU:OE1	2:Hb:134:ARG:NH2	2.41	0.46
2:Hb:136:ASN:HD21	2:Hb:193:ASP:CB	2.28	0.46
2:Ib:136:ASN:HD21	2:Ib:193:ASP:CB	2.28	0.46
2:Mc:149:ASP:HA	2:Mc:152:VAL:HG12	1.98	0.46
2:Pc:127:ARG:HA	2:Pc:160:ASP:HB3	1.97	0.46
2:Pc:169:ALA:HA	2:Pc:172:ILE:HG13	1.98	0.46
1:QD:92:GLU:CD	2:Qb:134:ARG:HH22	2.23	0.46
2:Vc:149:ASP:HA	2:Vc:152:VAL:HG12	1.98	0.46
2:Wb:136:ASN:HD21	2:Wb:193:ASP:CB	2.28	0.46
1:XD:62:ILE:HG22	1:XD:63:ILE:N	2.31	0.46
1:XD:92:GLU:CD	2:Xb:134:ARG:HH22	2.23	0.46
1:YD:92:GLU:OE1	2:Yb:134:ARG:NH2	2.42	0.46
1:ZD:62:ILE:HG22	1:ZD:63:ILE:N	2.31	0.46
2:aa:129:GLY:HA3	2:aa:179:LEU:HD21	1.96	0.46
2:cc:149:ASP:HA	2:cc:152:VAL:HG12	1.98	0.46
1:gD:62:ILE:HG22	1:gD:63:ILE:N	2.31	0.46
1:hD:92:GLU:CD	2:hb:134:ARG:HH22	2.23	0.46
2:hc:169:ALA:HA	2:hc:172:ILE:HG13	1.98	0.46
2:mc:149:ASP:HA	2:mc:152:VAL:HG12	1.98	0.46
2:oc:127:ARG:HA	2:oc:160:ASP:HB3	1.97	0.46
2:oc:169:ALA:HA	2:oc:172:ILE:HG13	1.98	0.46
2:ub:136:ASN:HD21	2:ub:193:ASP:CB	2.28	0.46
2:ud:170:TRP:CD1	2:ud:171:GLU:HG3	2.50	0.46
1:xD:62:ILE:HG22	1:xD:63:ILE:N	2.31	0.46
2:xb:136:ASN:HD21	2:xb:193:ASP:CB	2.28	0.46
1:7D:92:GLU:OE1	2:7b:134:ARG:NH2	2.41	0.46
2:Ad:167:PRO:HD2	1:IC:93:MET:HE3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:92:GLU:OE1	2:Bb:134:ARG:NH2	2.42	0.46
2:Cc:127:ARG:HA	2:Cc:160:ASP:HB3	1.97	0.46
1:DD:92:GLU:OE1	2:Db:134:ARG:NH2	2.42	0.46
2:Fc:149:ASP:HA	2:Fc:152:VAL:HG12	1.98	0.46
2:Nc:149:ASP:HA	2:Nc:152:VAL:HG12	1.98	0.46
2:Uc:127:ARG:HA	2:Uc:160:ASP:HB3	1.97	0.46
2:cb:136:ASN:HD21	2:cb:193:ASP:CB	2.28	0.46
1:gD:92:GLU:OE1	2:gb:134:ARG:NH2	2.42	0.46
2:ld:134:ARG:HH22	2:mc:118:GLU:HG3	1.79	0.46
1:pA:92:GLU:OE2	2:qa:167:PRO:HG3	2.16	0.46
2:tc:149:ASP:HA	2:tc:152:VAL:HG12	1.98	0.46
2:tc:169:ALA:HA	2:tc:172:ILE:HG13	1.98	0.46
2:uc:127:ARG:HA	2:uc:160:ASP:HB3	1.97	0.46
1:0D:92:GLU:CD	2:0b:134:ARG:HH22	2.23	0.46
1:3D:48:ALA:CB	1:4D:42:VAL:HG11	2.46	0.46
2:3c:169:ALA:HA	2:3c:172:ILE:HG13	1.98	0.46
1:BD:62:ILE:HG22	1:BD:63:ILE:N	2.31	0.46
2:Bc:149:ASP:HA	2:Bc:152:VAL:HG12	1.98	0.46
2:Bc:169:ALA:HA	2:Bc:172:ILE:HG13	1.98	0.46
2:Cc:169:ALA:HA	2:Cc:172:ILE:HG13	1.98	0.46
1:DD:92:GLU:CD	2:Db:134:ARG:HH22	2.23	0.46
1:FD:62:ILE:HG22	1:FD:63:ILE:N	2.31	0.46
2:Ic:127:ARG:HA	2:Ic:160:ASP:HB3	1.97	0.46
2:Pc:149:ASP:HA	2:Pc:152:VAL:HG12	1.98	0.46
2:Qc:149:ASP:HA	2:Qc:152:VAL:HG12	1.98	0.46
2:Sb:136:ASN:HD21	2:Sb:193:ASP:CB	2.28	0.46
1:ZD:92:GLU:CD	2:Zb:134:ARG:HH22	2.23	0.46
2:bd:173:PRO:HG3	1:cB:43:VAL:HG13	1.98	0.46
2:eb:136:ASN:HD21	2:eb:193:ASP:CB	2.28	0.46
2:fb:136:ASN:HD21	2:fb:193:ASP:CB	2.28	0.46
2:ha:129:GLY:HA3	2:ha:179:LEU:HD21	1.97	0.46
2:hc:149:ASP:HA	2:hc:152:VAL:HG12	1.98	0.46
2:jc:127:ARG:HA	2:jc:160:ASP:HB3	1.97	0.46
1:kD:92:GLU:OE1	2:kb:134:ARG:NH2	2.41	0.46
2:nb:136:ASN:HD21	2:nb:193:ASP:CB	2.28	0.46
2:sc:149:ASP:HA	2:sc:152:VAL:HG12	1.98	0.46
2:sc:169:ALA:HA	2:sc:172:ILE:HG13	1.98	0.46
1:vD:62:ILE:HG22	1:vD:63:ILE:N	2.31	0.46
2:vc:169:ALA:HA	2:vc:172:ILE:HG13	1.98	0.46
2:0c:118:GLU:HG3	2:zd:134:ARG:HH22	1.80	0.46
2:0c:169:ALA:HA	2:0c:172:ILE:HG13	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:7d:194:LEU:HB3	1:QB:63:ILE:O	2.16	0.46
2:Ac:169:ALA:HA	2:Ac:172:ILE:HG13	1.98	0.46
2:Bb:136:ASN:HD21	2:Bb:193:ASP:CB	2.28	0.46
1:ED:92:GLU:CD	2:Eb:134:ARG:HH22	2.23	0.46
2:Mc:169:ALA:HA	2:Mc:172:ILE:HG13	1.98	0.46
2:Qa:129:GLY:HA3	2:Qa:179:LEU:HD21	1.97	0.46
2:Sc:169:ALA:HA	2:Sc:172:ILE:HG13	1.98	0.46
2:Tb:136:ASN:HD21	2:Tb:193:ASP:CB	2.28	0.46
2:Xc:169:ALA:HA	2:Xc:172:ILE:HG13	1.97	0.46
1:dD:62:ILE:HG22	1:dD:63:ILE:N	2.31	0.46
2:fa:129:GLY:HA3	2:fa:179:LEU:HD21	1.97	0.46
2:fc:169:ALA:HA	2:fc:172:ILE:HG13	1.98	0.46
1:iD:92:GLU:OE1	2:ib:134:ARG:NH2	2.42	0.46
2:ia:129:GLY:HA3	2:ia:179:LEU:HD21	1.96	0.46
1:nA:93:MET:HE2	2:oa:171:GLU:CG	2.46	0.46
1:nD:92:GLU:OE1	2:nb:134:ARG:NH2	2.42	0.46
2:od:134:ARG:HH22	2:pc:118:GLU:HG3	1.81	0.46
1:tD:62:ILE:HG22	1:tD:63:ILE:N	2.31	0.46
2:uc:169:ALA:HA	2:uc:172:ILE:HG13	1.98	0.46
1:vD:92:GLU:CD	2:vb:134:ARG:HH22	2.23	0.46
1:vD:92:GLU:OE1	2:vb:134:ARG:NH2	2.42	0.46
1:wD:92:GLU:OE1	2:wb:134:ARG:NH2	2.41	0.46
2:1a:129:GLY:HA3	2:1a:179:LEU:HD21	1.97	0.45
1:2D:62:ILE:HG22	1:2D:63:ILE:N	2.31	0.45
2:Dc:149:ASP:HA	2:Dc:152:VAL:HG12	1.98	0.45
2:Fc:169:ALA:HA	2:Fc:172:ILE:HG13	1.98	0.45
1:GD:92:GLU:CD	2:Gb:134:ARG:HH22	2.23	0.45
2:Hc:169:ALA:HA	2:Hc:172:ILE:HG13	1.97	0.45
1:KD:62:ILE:HG22	1:KD:63:ILE:N	2.30	0.45
2:Sa:129:GLY:HA3	2:Sa:179:LEU:HD21	1.97	0.45
2:Tc:127:ARG:HA	2:Tc:160:ASP:HB3	1.97	0.45
1:WD:62:ILE:HG22	1:WD:63:ILE:N	2.31	0.45
2:Zc:169:ALA:HA	2:Zc:172:ILE:HG13	1.97	0.45
1:eD:73:GLU:HG2	2:ga:138:THR:CG2	2.45	0.45
2:lb:136:ASN:HD21	2:lb:193:ASP:CB	2.28	0.45
1:pD:62:ILE:HG22	1:pD:63:ILE:N	2.31	0.45
2:qc:169:ALA:HA	2:qc:172:ILE:HG13	1.98	0.45
2:rc:127:ARG:HA	2:rc:160:ASP:HB3	1.97	0.45
2:tb:136:ASN:HD21	2:tb:193:ASP:CB	2.28	0.45
2:td:173:PRO:HG3	1:uB:43:VAL:HG13	1.98	0.45
1:wD:92:GLU:CD	2:wb:134:ARG:HH22	2.23	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:yD:62:ILE:HG22	1:yD:63:ILE:N	2.31	0.45
2:za:129:GLY:HA3	2:za:179:LEU:HD21	1.96	0.45
2:1c:149:ASP:HA	2:1c:152:VAL:HG12	1.98	0.45
2:2c:149:ASP:HA	2:2c:152:VAL:HG12	1.98	0.45
2:2c:169:ALA:HA	2:2c:172:ILE:HG13	1.98	0.45
1:4D:69:GLU:CG	1:PA:79:HIS:HE1	2.18	0.45
2:4c:164:VAL:HG22	2:Ab:117:TYR:HB2	1.98	0.45
2:5c:149:ASP:HA	2:5c:152:VAL:HG12	1.98	0.45
1:KD:92:GLU:CD	2:Kb:134:ARG:HH22	2.23	0.45
1:NB:47:LEU:HD23	1:NB:47:LEU:HA	1.84	0.45
2:Pc:163:LEU:HB3	2:qb:116:ILE:HG13	1.97	0.45
2:Ra:129:GLY:HA3	2:Ra:179:LEU:HD21	1.97	0.45
2:Uc:149:ASP:HA	2:Uc:152:VAL:HG12	1.98	0.45
2:cc:169:ALA:HA	2:cc:172:ILE:HG13	1.98	0.45
2:jc:149:ASP:HA	2:jc:152:VAL:HG12	1.98	0.45
2:nc:169:ALA:HA	2:nc:172:ILE:HG13	1.98	0.45
2:pc:149:ASP:HA	2:pc:152:VAL:HG12	1.98	0.45
2:qc:149:ASP:HA	2:qc:152:VAL:HG12	1.98	0.45
1:sD:62:ILE:HG22	1:sD:63:ILE:N	2.31	0.45
1:sD:92:GLU:OE1	2:sb:134:ARG:NH2	2.42	0.45
1:tD:92:GLU:OE1	2:tb:134:ARG:NH2	2.42	0.45
2:tc:127:ARG:HA	2:tc:160:ASP:HB3	1.97	0.45
2:vc:149:ASP:HA	2:vc:152:VAL:HG12	1.98	0.45
2:yc:169:ALA:HA	2:yc:172:ILE:HG13	1.98	0.45
2:4c:167:PRO:HD2	1:AB:93:MET:HE2	1.99	0.45
1:5D:62:ILE:HG22	1:5D:63:ILE:N	2.31	0.45
1:6D:92:GLU:OE1	2:6b:134:ARG:NH2	2.41	0.45
2:6c:149:ASP:HA	2:6c:152:VAL:HG12	1.98	0.45
2:Fc:164:VAL:HG22	2:ib:117:TYR:HB2	1.99	0.45
2:Kc:169:ALA:HA	2:Kc:172:ILE:HG13	1.98	0.45
2:La:129:GLY:HA3	2:La:179:LEU:HD21	1.97	0.45
2:Na:129:GLY:HA3	2:Na:179:LEU:HD21	1.97	0.45
2:Nc:127:ARG:HA	2:Nc:160:ASP:HB3	1.97	0.45
1:RD:92:GLU:OE1	2:Rb:134:ARG:NH2	2.41	0.45
2:Tc:169:ALA:HA	2:Tc:172:ILE:HG13	1.98	0.45
2:Vc:169:ALA:HA	2:Vc:172:ILE:HG13	1.97	0.45
2:ec:127:ARG:HA	2:ec:160:ASP:HB3	1.97	0.45
2:ec:169:ALA:HA	2:ec:172:ILE:HG13	1.98	0.45
2:ic:149:ASP:HA	2:ic:152:VAL:HG12	1.98	0.45
2:kc:169:ALA:HA	2:kc:172:ILE:HG13	1.98	0.45
1:mB:47:LEU:HD23	1:mB:47:LEU:HA	1.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:oD:92:GLU:CD	2:ob:134:ARG:HH22	2.23	0.45
1:qD:62:ILE:HG22	1:qD:63:ILE:N	2.31	0.45
2:sa:118:GLU:CD	2:ta:134:ARG:HH22	2.17	0.45
1:4D:92:GLU:CD	2:4b:134:ARG:HH22	2.23	0.45
2:6d:142:ARG:NH1	2:6d:142:ARG:HB2	2.32	0.45
1:AD:92:GLU:CD	2:Ab:134:ARG:HH22	2.23	0.45
2:Bc:127:ARG:HA	2:Bc:160:ASP:HB3	1.97	0.45
1:ED:92:GLU:OE1	2:Eb:134:ARG:NH2	2.41	0.45
2:Ec:149:ASP:HA	2:Ec:152:VAL:HG12	1.98	0.45
2:Hc:127:ARG:HA	2:Hc:160:ASP:HB3	1.97	0.45
1:OD:62:ILE:HG22	1:OD:63:ILE:N	2.31	0.45
1:RD:62:ILE:HG22	1:RD:63:ILE:N	2.30	0.45
2:bc:149:ASP:HA	2:bc:152:VAL:HG12	1.98	0.45
2:wc:149:ASP:HA	2:wc:152:VAL:HG12	1.98	0.45
1:yD:92:GLU:CD	2:yb:134:ARG:HH22	2.23	0.45
1:3D:92:GLU:CD	2:3b:134:ARG:HH22	2.23	0.45
1:4D:54:LEU:HD21	2:Pa:181:ARG:NH1	2.31	0.45
1:7D:73:GLU:CD	2:Qa:136:ASN:OD1	2.60	0.45
2:Ac:139:LEU:HD11	1:rC:69:GLU:OE1	2.16	0.45
2:Kc:149:ASP:HA	2:Kc:152:VAL:HG12	1.98	0.45
2:Oc:169:ALA:HA	2:Oc:172:ILE:HG13	1.98	0.45
2:Rc:149:ASP:HA	2:Rc:152:VAL:HG12	1.98	0.45
1:UD:38:TYR:HH	1:YD:36:PHE:N	2.15	0.45
1:VD:36:PHE:N	1:WD:38:TYR:HH	2.15	0.45
2:jd:142:ARG:NH1	2:jd:142:ARG:HB2	2.32	0.45
1:ID:92:GLU:CD	2:lb:134:ARG:HH22	2.23	0.45
2:nc:127:ARG:HA	2:nc:160:ASP:HB3	1.97	0.45
2:nd:142:ARG:HB2	2:nd:142:ARG:NH1	2.32	0.45
2:pc:169:ALA:HA	2:pc:172:ILE:HG13	1.98	0.45
2:qc:127:ARG:HA	2:qc:160:ASP:HB3	1.97	0.45
2:yc:149:ASP:HA	2:yc:152:VAL:HG12	1.98	0.45
2:1c:127:ARG:HA	2:1c:160:ASP:HB3	1.97	0.45
2:2c:127:ARG:HA	2:2c:160:ASP:HB3	1.97	0.45
2:5c:169:ALA:HA	2:5c:172:ILE:HG13	1.98	0.45
2:Dc:127:ARG:HA	2:Dc:160:ASP:HB3	1.97	0.45
2:Hd:142:ARG:NH1	2:Hd:142:ARG:HB2	2.32	0.45
2:Ld:142:ARG:NH1	2:Ld:142:ARG:HB2	2.32	0.45
2:ad:143:LEU:HD11	1:bB:63:ILE:HB	1.99	0.45
2:gc:149:ASP:HA	2:gc:152:VAL:HG12	1.98	0.45
1:iD:62:ILE:HG22	1:iD:63:ILE:N	2.31	0.45
1:kD:62:ILE:HG22	1:kD:63:ILE:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:zD:62:ILE:HG22	1:zD:63:ILE:N	2.31	0.45
2:zd:142:ARG:NH1	2:zd:142:ARG:HB2	2.32	0.45
1:6D:62:ILE:HG22	1:6D:63:ILE:N	2.31	0.45
2:Cd:142:ARG:HB2	2:Cd:142:ARG:NH1	2.32	0.45
1:ED:41:SER:HG	1:FD:38:TYR:HE1	1.60	0.45
2:Gd:142:ARG:NH1	2:Gd:142:ARG:HB2	2.32	0.45
1:LD:62:ILE:HG22	1:LD:63:ILE:N	2.31	0.45
2:Lc:149:ASP:HA	2:Lc:152:VAL:HG12	1.98	0.45
1:ND:92:GLU:CD	2:Nb:134:ARG:HH22	2.23	0.45
1:aD:62:ILE:HG21	2:ba:195:ILE:HA	1.97	0.45
1:jD:92:GLU:OE1	2:jb:134:ARG:NH2	2.41	0.45
2:kd:142:ARG:NH1	2:kd:142:ARG:HB2	2.32	0.45
2:od:142:ARG:NH1	2:od:142:ARG:HB2	2.32	0.45
2:sd:134:ARG:HH22	2:tc:118:GLU:HG3	1.81	0.45
1:1D:92:GLU:CD	2:1b:134:ARG:HH22	2.23	0.45
1:2D:38:TYR:HH	1:5D:36:PHE:N	2.15	0.45
2:5d:142:ARG:NH1	2:5d:142:ARG:HB2	2.32	0.45
2:7c:149:ASP:HA	2:7c:152:VAL:HG12	1.98	0.45
2:Ac:167:PRO:HD2	1:rB:93:MET:HE2	1.99	0.45
1:BD:92:GLU:CD	2:Bb:134:ARG:HH22	2.23	0.45
2:Lc:169:ALA:HA	2:Lc:172:ILE:HG13	1.98	0.45
1:MD:69:GLU:HG2	1:NA:79:HIS:CE1	2.47	0.45
2:Od:142:ARG:NH1	2:Od:142:ARG:HB2	2.32	0.45
2:Qd:142:ARG:NH1	2:Qd:142:ARG:HB2	2.32	0.45
2:Sc:149:ASP:HA	2:Sc:152:VAL:HG12	1.98	0.45
1:VD:92:GLU:CD	2:Vb:134:ARG:HH22	2.23	0.45
2:ac:149:ASP:HA	2:ac:152:VAL:HG12	1.98	0.45
1:cC:55:ARG:HB3	1:eC:101:ARG:HH12	1.82	0.45
1:cD:92:GLU:CD	2:cb:134:ARG:HH22	2.23	0.45
2:hd:142:ARG:NH1	2:hd:142:ARG:HB2	2.32	0.45
1:jD:62:ILE:HG22	1:jD:63:ILE:N	2.31	0.45
2:jb:136:ASN:HD21	2:jb:193:ASP:CB	2.28	0.45
2:oc:149:ASP:HA	2:oc:152:VAL:HG12	1.98	0.45
2:pd:142:ARG:NH1	2:pd:142:ARG:HB2	2.32	0.45
1:tD:92:GLU:CD	2:tb:134:ARG:HH22	2.23	0.45
2:td:134:ARG:HH22	2:uc:118:GLU:HG3	1.82	0.45
2:ud:142:ARG:NH1	2:ud:142:ARG:HB2	2.32	0.45
2:vc:127:ARG:HA	2:vc:160:ASP:HB3	1.97	0.45
2:zc:149:ASP:HA	2:zc:152:VAL:HG12	1.98	0.45
2:6b:136:ASN:HD21	2:6b:193:ASP:CB	2.28	0.45
2:Bc:164:VAL:HG22	2:Gb:117:TYR:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EC:69:GLU:OE1	2:fc:139:LEU:HD11	2.16	0.45
1:FD:92:GLU:OE1	2:Fb:134:ARG:NH2	2.41	0.45
1:eD:92:GLU:OE1	2:eb:134:ARG:NH2	2.41	0.45
2:fc:149:ASP:HA	2:fc:152:VAL:HG12	1.98	0.45
1:jD:36:PHE:N	1:kD:38:TYR:HH	2.14	0.45
2:ob:118:GLU:CD	2:tc:134:ARG:HH12	2.24	0.45
2:oc:193:ASP:O	1:zC:62:ILE:HG23	2.17	0.45
2:zc:169:ALA:HA	2:zc:172:ILE:HG13	1.98	0.45
2:0b:116:ILE:HG13	2:kc:163:LEU:HB3	1.99	0.45
1:1B:47:LEU:HD23	1:1B:47:LEU:HA	1.84	0.45
1:2D:36:PHE:N	1:ID:38:TYR:HH	2.15	0.45
2:2d:142:ARG:NH1	2:2d:142:ARG:HB2	2.32	0.45
2:4d:142:ARG:NH1	2:4d:142:ARG:HB2	2.32	0.45
1:CD:36:PHE:N	1:DD:38:TYR:HH	2.15	0.45
2:Gc:149:ASP:HA	2:Gc:152:VAL:HG12	1.98	0.45
2:Jd:142:ARG:NH1	2:Jd:142:ARG:HB2	2.32	0.45
2:Jd:171:GLU:OE1	1:KC:93:MET:HE3	2.15	0.45
2:Wd:142:ARG:NH1	2:Wd:142:ARG:HB2	2.32	0.45
2:Yc:149:ASP:HA	2:Yc:152:VAL:HG12	1.98	0.45
2:Zc:149:ASP:HA	2:Zc:152:VAL:HG12	1.98	0.45
1:cD:36:PHE:N	1:dD:38:TYR:HH	2.15	0.45
2:ld:142:ARG:NH1	2:ld:142:ARG:HB2	2.32	0.45
2:1d:142:ARG:NH1	2:1d:142:ARG:HB2	2.32	0.44
2:Hc:149:ASP:HA	2:Hc:152:VAL:HG12	1.98	0.44
2:Mb:136:ASN:HD21	2:Mb:193:ASP:CB	2.28	0.44
2:Pd:142:ARG:NH1	2:Pd:142:ARG:HB2	2.32	0.44
2:Tc:149:ASP:HA	2:Tc:152:VAL:HG12	1.98	0.44
2:Td:142:ARG:NH1	2:Td:142:ARG:HB2	2.32	0.44
2:Xc:149:ASP:HA	2:Xc:152:VAL:HG12	1.98	0.44
2:Yd:142:ARG:NH1	2:Yd:142:ARG:HB2	2.32	0.44
2:fd:142:ARG:HB2	2:fd:142:ARG:NH1	2.32	0.44
2:kc:149:ASP:HA	2:kc:152:VAL:HG12	1.98	0.44
2:md:142:ARG:NH1	2:md:142:ARG:HB2	2.32	0.44
2:oc:167:PRO:HD2	1:zB:93:MET:HE2	1.98	0.44
2:qd:142:ARG:HB2	2:qd:142:ARG:NH1	2.32	0.44
2:sd:142:ARG:NH1	2:sd:142:ARG:HB2	2.32	0.44
2:4c:149:ASP:HA	2:4c:152:VAL:HG12	1.98	0.44
1:6D:36:PHE:N	1:OD:38:TYR:HH	2.15	0.44
2:7d:142:ARG:NH1	2:7d:142:ARG:HB2	2.32	0.44
2:Id:142:ARG:NH1	2:Id:142:ARG:HB2	2.32	0.44
2:Nd:142:ARG:HB2	2:Nd:142:ARG:NH1	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Sd:142:ARG:HB2	2:Sd:142:ARG:NH1	2.32	0.44
1:UD:36:PHE:N	1:VD:38:TYR:HH	2.15	0.44
2:Xd:142:ARG:NH1	2:Xd:142:ARG:HB2	2.32	0.44
2:ad:142:ARG:NH1	2:ad:142:ARG:HB2	2.32	0.44
2:dd:142:ARG:NH1	2:dd:142:ARG:HB2	2.32	0.44
2:ec:149:ASP:HA	2:ec:152:VAL:HG12	1.98	0.44
2:id:142:ARG:NH1	2:id:142:ARG:HB2	2.32	0.44
1:jD:38:TYR:HH	1:mD:36:PHE:N	2.15	0.44
2:nc:149:ASP:HA	2:nc:152:VAL:HG12	1.98	0.44
2:uc:149:ASP:HA	2:uc:152:VAL:HG12	1.98	0.44
2:xd:142:ARG:NH1	2:xd:142:ARG:HB2	2.32	0.44
2:0b:136:ASN:HD21	2:0b:193:ASP:CB	2.28	0.44
2:3d:142:ARG:HB2	2:3d:142:ARG:NH1	2.32	0.44
1:6D:38:TYR:HH	1:PD:36:PHE:N	2.15	0.44
2:Bd:142:ARG:NH1	2:Bd:142:ARG:HB2	2.32	0.44
2:Jb:116:ILE:HG13	2:Vc:163:LEU:HB3	1.99	0.44
2:Rc:134:ARG:HH12	2:pb:118:GLU:CD	2.25	0.44
2:Rd:142:ARG:NH1	2:Rd:142:ARG:HB2	2.32	0.44
2:Wc:149:ASP:HA	2:Wc:152:VAL:HG12	1.98	0.44
2:bd:142:ARG:NH1	2:bd:142:ARG:HB2	2.32	0.44
2:dc:149:ASP:HA	2:dc:152:VAL:HG12	1.98	0.44
1:pD:92:GLU:CD	2:pb:134:ARG:HH22	2.23	0.44
2:pc:171:GLU:HG2	1:sB:93:MET:HE3	1.99	0.44
2:rc:149:ASP:HA	2:rc:152:VAL:HG12	1.98	0.44
2:rd:142:ARG:NH1	2:rd:142:ARG:HB2	2.32	0.44
2:wd:142:ARG:NH1	2:wd:142:ARG:HB2	2.32	0.44
1:3A:92:GLU:OE2	2:4a:167:PRO:HG3	2.16	0.44
2:4c:139:LEU:HD11	1:AC:69:GLU:OE1	2.17	0.44
1:5D:92:GLU:CD	2:5b:134:ARG:HH22	2.23	0.44
2:Ed:142:ARG:NH1	2:Ed:142:ARG:HB2	2.32	0.44
2:Jc:158:GLY:O	2:Tb:114:ILE:HG22	2.18	0.44
2:Kd:142:ARG:HB2	2:Kd:142:ARG:NH1	2.32	0.44
2:Oc:149:ASP:HA	2:Oc:152:VAL:HG12	1.98	0.44
2:Ud:142:ARG:NH1	2:Ud:142:ARG:HB2	2.32	0.44
2:Zd:142:ARG:NH1	2:Zd:142:ARG:HB2	2.32	0.44
2:bb:118:GLU:CD	2:yc:134:ARG:HH12	2.26	0.44
2:cd:142:ARG:NH1	2:cd:142:ARG:HB2	2.32	0.44
2:ed:142:ARG:NH1	2:ed:142:ARG:HB2	2.32	0.44
2:gd:142:ARG:NH1	2:gd:142:ARG:HB2	2.32	0.44
2:td:142:ARG:NH1	2:td:142:ARG:HB2	2.32	0.44
2:xc:169:ALA:HA	2:xc:172:ILE:HG13	1.97	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:88:LEU:HD11	2:1b:121:LEU:HD23	2.00	0.44
1:4D:73:GLU:CD	2:Pa:136:ASN:OD1	2.61	0.44
1:7B:47:LEU:HD23	1:7B:47:LEU:HA	1.84	0.44
2:Ad:142:ARG:NH1	2:Ad:142:ARG:HB2	2.32	0.44
2:Bd:134:ARG:HH22	2:Cc:118:GLU:HG3	1.82	0.44
2:Cc:149:ASP:HA	2:Cc:152:VAL:HG12	1.98	0.44
2:Fd:142:ARG:NH1	2:Fd:142:ARG:HB2	2.32	0.44
2:Ic:149:ASP:HA	2:Ic:152:VAL:HG12	1.98	0.44
1:TD:92:GLU:OE1	2:Tb:134:ARG:NH2	2.42	0.44
1:fD:92:GLU:OE1	2:fb:134:ARG:NH2	2.42	0.44
2:lc:149:ASP:HA	2:lc:152:VAL:HG12	1.98	0.44
1:nD:38:TYR:HH	1:rD:36:PHE:N	2.15	0.44
1:pB:88:LEU:HD11	2:pb:121:LEU:HD23	2.00	0.44
1:sD:38:TYR:HH	1:wD:36:PHE:N	2.15	0.44
1:uD:92:GLU:CD	2:ub:134:ARG:HH22	2.23	0.44
2:vd:142:ARG:NH1	2:vd:142:ARG:HB2	2.32	0.44
1:xB:88:LEU:HD11	2:xb:121:LEU:HD23	2.00	0.44
2:yD:142:ARG:HB2	2:yD:142:ARG:NH1	2.32	0.44
2:0d:173:PRO:HG3	1:1B:43:VAL:HG13	2.00	0.44
2:3c:149:ASP:HA	2:3c:152:VAL:HG12	1.98	0.44
1:4D:43:VAL:HA	2:Pa:173:PRO:HG2	2.00	0.44
2:Ac:149:ASP:HA	2:Ac:152:VAL:HG12	1.98	0.44
2:Ac:164:VAL:HG22	2:rb:117:TYR:HB2	1.98	0.44
1:CD:92:GLU:CD	2:Cb:134:ARG:HH22	2.23	0.44
1:JB:88:LEU:HD11	2:Jb:121:LEU:HD23	2.00	0.44
2:Jc:169:ALA:HA	2:Jc:172:ILE:HG13	1.98	0.44
1:LD:36:PHE:N	1:MD:38:TYR:HH	2.15	0.44
2:Md:142:ARG:NH1	2:Md:142:ARG:HB2	2.32	0.44
1:NB:88:LEU:HD11	2:Nb:121:LEU:HD23	2.00	0.44
1:TD:92:GLU:CD	2:Tb:134:ARG:HH22	2.23	0.44
2:Vd:142:ARG:HB2	2:Vd:142:ARG:NH1	2.32	0.44
1:ZD:36:PHE:N	1:aD:38:TYR:HH	2.15	0.44
2:0d:142:ARG:HB2	2:0d:142:ARG:NH1	2.32	0.44
1:5B:88:LEU:HD11	2:5b:121:LEU:HD23	2.00	0.44
1:7D:38:TYR:HE1	1:TD:41:SER:HG	1.61	0.44
2:Dd:142:ARG:NH1	2:Dd:142:ARG:HB2	2.32	0.44
1:SD:92:GLU:OE1	2:Sb:134:ARG:NH2	2.41	0.44
1:UB:88:LEU:HD11	2:Ub:121:LEU:HD23	2.00	0.44
1:bB:88:LEU:HD11	2:bb:121:LEU:HD23	2.00	0.44
1:eB:88:LEU:HD11	2:eb:121:LEU:HD23	2.00	0.44
2:Bd:173:PRO:HG3	1:CB:43:VAL:HG13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ed:173:PRO:HG3	1:FB:43:VAL:HG13	2.00	0.44
1:IB:88:LEU:HD11	2:Ib:121:LEU:HD23	2.00	0.44
1:PB:88:LEU:HD11	2:Pb:121:LEU:HD23	2.00	0.44
1:TB:88:LEU:HD11	2:Tb:121:LEU:HD23	2.00	0.44
1:TD:100:LEU:HD12	1:TD:100:LEU:HA	1.83	0.44
1:eD:92:GLU:CD	2:eb:134:ARG:HH22	2.23	0.44
1:yD:36:PHE:N	1:zD:38:TYR:HH	2.15	0.44
1:2B:88:LEU:HD11	2:2b:121:LEU:HD23	2.00	0.44
1:3A:92:GLU:CD	2:4a:167:PRO:HG3	2.43	0.44
1:BC:75:ALA:HB1	1:GC:69:GLU:OE2	2.18	0.44
1:MB:47:LEU:HD23	1:MB:47:LEU:HA	1.84	0.44
2:Pa:177:ASP:OD1	2:Pa:181:ARG:NE	2.50	0.44
1:SB:88:LEU:HD11	2:Sb:121:LEU:HD23	2.00	0.44
1:XD:36:PHE:N	1:YD:38:TYR:HH	2.15	0.44
1:cC:50:LEU:HD21	2:ec:177:ASP:HA	1.99	0.44
1:mB:88:LEU:HD11	2:mb:121:LEU:HD23	2.00	0.44
2:oc:139:LEU:HD11	1:zC:69:GLU:OE1	2.18	0.44
1:qB:88:LEU:HD11	2:qb:121:LEU:HD23	2.00	0.44
1:rB:88:LEU:HD11	2:rb:121:LEU:HD23	2.00	0.44
1:wB:88:LEU:HD11	2:wb:121:LEU:HD23	2.00	0.44
1:3D:38:TYR:HH	1:OD:36:PHE:N	2.15	0.43
1:DB:88:LEU:HD11	2:Db:121:LEU:HD23	2.00	0.43
1:EB:88:LEU:HD11	2:Eb:121:LEU:HD23	2.00	0.43
1:HB:88:LEU:HD11	2:Hb:121:LEU:HD23	2.00	0.43
1:KD:36:PHE:N	1:LD:38:TYR:HH	2.15	0.43
1:PD:100:LEU:HD12	1:PD:100:LEU:HA	1.83	0.43
1:UD:92:GLU:CD	2:Ub:134:ARG:HH22	2.23	0.43
1:WB:88:LEU:HD11	2:Wb:121:LEU:HD23	2.00	0.43
1:dB:88:LEU:HD11	2:db:121:LEU:HD23	2.00	0.43
2:dc:163:LEU:HD23	2:fb:116:ILE:CD1	2.48	0.43
1:eD:100:LEU:HA	1:eD:100:LEU:HD12	1.83	0.43
1:FB:43:VAL:HG13	2:id:173:PRO:HG3	2.00	0.43
1:FB:88:LEU:HD11	2:fb:121:LEU:HD23	2.00	0.43
1:gB:47:LEU:HD23	1:gB:47:LEU:HA	1.84	0.43
1:IB:88:LEU:HD11	2:Ib:121:LEU:HD23	2.00	0.43
1:ID:100:LEU:HD12	1:ID:100:LEU:HA	1.83	0.43
1:nB:47:LEU:HD23	1:nB:47:LEU:HA	1.84	0.43
1:nB:88:LEU:HD11	2:nb:121:LEU:HD23	2.00	0.43
2:xc:149:ASP:HA	2:xc:152:VAL:HG12	1.98	0.43
1:1D:36:PHE:N	1:xD:38:TYR:HH	2.15	0.43
1:3B:88:LEU:HD11	2:3b:121:LEU:HD23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4B:88:LEU:HD11	2:4b:121:LEU:HD23	2.00	0.43
1:7D:92:GLU:CD	2:7b:134:ARG:HH22	2.23	0.43
1:BB:88:LEU:HD11	2:Bb:121:LEU:HD23	2.00	0.43
1:CB:88:LEU:HD11	2:Cb:121:LEU:HD23	2.00	0.43
1:MD:100:LEU:HD12	1:MD:100:LEU:HA	1.82	0.43
1:gA:64:THR:O	1:gB:78:LYS:NZ	2.52	0.43
1:sA:64:THR:O	1:sB:78:LYS:NZ	2.52	0.43
1:tB:88:LEU:HD11	2:tb:121:LEU:HD23	2.00	0.43
1:uB:88:LEU:HD11	2:ub:121:LEU:HD23	2.00	0.43
1:2A:64:THR:O	1:2B:78:LYS:NZ	2.52	0.43
1:5D:38:TYR:HH	1:GD:36:PHE:N	2.15	0.43
1:7A:64:THR:O	1:7B:78:LYS:NZ	2.52	0.43
1:AB:88:LEU:HD11	2:Ab:121:LEU:HD23	2.00	0.43
1:BA:64:THR:O	1:BB:78:LYS:NZ	2.52	0.43
2:Eb:114:ILE:HG22	2:fc:158:GLY:O	2.18	0.43
1:FA:64:THR:O	1:FB:78:LYS:NZ	2.52	0.43
2:Jc:149:ASP:HA	2:Jc:152:VAL:HG12	1.98	0.43
1:LB:47:LEU:HD23	1:LB:47:LEU:HA	1.84	0.43
1:MA:64:THR:O	1:MB:78:LYS:NZ	2.52	0.43
2:Pc:134:ARG:HH22	2:qb:118:GLU:CD	2.24	0.43
1:WA:64:THR:O	1:WB:78:LYS:NZ	2.52	0.43
1:YA:64:THR:O	1:YB:78:LYS:NZ	2.52	0.43
1:ZD:100:LEU:HD12	1:ZD:100:LEU:HA	1.83	0.43
1:aA:64:THR:O	1:aB:78:LYS:NZ	2.52	0.43
1:bA:64:THR:O	1:bB:78:LYS:NZ	2.52	0.43
1:dA:64:THR:O	1:dB:78:LYS:NZ	2.52	0.43
1:dB:47:LEU:HD23	1:dB:47:LEU:HA	1.84	0.43
1:eC:93:MET:HE3	2:fd:167:PRO:HD2	1.99	0.43
1:jB:47:LEU:HD23	1:jB:47:LEU:HA	1.84	0.43
1:tA:64:THR:O	1:tB:78:LYS:NZ	2.52	0.43
1:vB:88:LEU:HD11	2:vb:121:LEU:HD23	2.00	0.43
1:0A:64:THR:O	1:0B:78:LYS:NZ	2.52	0.43
1:0B:47:LEU:HD23	1:0B:47:LEU:HA	1.84	0.43
1:CA:64:THR:O	1:CB:78:LYS:NZ	2.52	0.43
1:WB:47:LEU:HA	1:WB:47:LEU:HD23	1.84	0.43
1:XB:47:LEU:HD23	1:XB:47:LEU:HA	1.84	0.43
1:XD:100:LEU:HD12	1:XD:100:LEU:HA	1.83	0.43
1:bC:75:ALA:HB1	1:uC:69:GLU:OE2	2.18	0.43
1:eA:64:THR:O	1:eB:78:LYS:NZ	2.52	0.43
2:od:171:GLU:OE1	1:pC:93:MET:HE3	2.18	0.43
1:rD:92:GLU:CD	2:rb:134:ARG:HH22	2.23	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:tD:43:VAL:HG23	2:ua:173:PRO:CD	2.46	0.43
1:uA:64:THR:O	1:uB:78:LYS:NZ	2.52	0.43
1:xA:64:THR:O	1:xB:78:LYS:NZ	2.52	0.43
2:7a:167:PRO:HG3	1:TA:92:GLU:CD	2.43	0.43
1:ED:101:ARG:HD2	1:FB:55:ARG:HH12	1.84	0.43
1:HB:47:LEU:HD23	1:HB:47:LEU:HA	1.84	0.43
1:IA:64:THR:O	1:IB:78:LYS:NZ	2.52	0.43
1:ID:92:GLU:CD	2:Ib:134:ARG:HH22	2.23	0.43
1:JA:64:THR:O	1:JB:78:LYS:NZ	2.52	0.43
1:KB:68:LEU:O	1:KB:72:ILE:HG23	2.19	0.43
1:LB:68:LEU:O	1:LB:72:ILE:HG23	2.19	0.43
2:Qa:177:ASP:OD1	2:Qa:181:ARG:NE	2.50	0.43
1:UA:64:THR:O	1:UB:78:LYS:NZ	2.52	0.43
1:YB:68:LEU:O	1:YB:72:ILE:HG23	2.19	0.43
1:YB:88:LEU:HD11	2:Yb:121:LEU:HD23	2.00	0.43
1:aB:68:LEU:O	1:aB:72:ILE:HG23	2.19	0.43
1:bD:92:GLU:CD	2:bb:134:ARG:HH22	2.23	0.43
1:cC:62:ILE:HG21	2:ec:195:ILE:HG12	2.00	0.43
1:gD:92:GLU:CD	2:gb:134:ARG:HH22	2.23	0.43
2:ha:177:ASP:OD1	2:ha:181:ARG:NE	2.50	0.43
1:oB:88:LEU:HD11	2:ob:121:LEU:HD23	2.00	0.43
1:qA:64:THR:O	1:qB:78:LYS:NZ	2.52	0.43
1:qD:92:GLU:CD	2:qb:134:ARG:HH22	2.23	0.43
1:qD:100:LEU:HD12	1:qD:100:LEU:HA	1.83	0.43
1:rA:64:THR:O	1:rB:78:LYS:NZ	2.52	0.43
1:yB:68:LEU:O	1:yB:72:ILE:HG23	2.19	0.43
1:zB:68:LEU:O	1:zB:72:ILE:HG23	2.19	0.43
2:0c:139:LEU:HD11	1:nC:69:GLU:OE1	2.19	0.43
1:2D:92:GLU:CD	2:2b:134:ARG:HH22	2.23	0.43
1:6B:47:LEU:HD23	1:6B:47:LEU:HA	1.84	0.43
1:KA:64:THR:O	1:KB:78:LYS:NZ	2.52	0.43
1:QA:64:THR:O	1:QB:78:LYS:NZ	2.52	0.43
1:TA:64:THR:O	1:TB:78:LYS:NZ	2.52	0.43
1:aB:88:LEU:HD11	2:ab:121:LEU:HD23	2.00	0.43
1:nB:68:LEU:O	1:nB:72:ILE:HG23	2.19	0.43
1:yA:64:THR:O	1:yB:78:LYS:NZ	2.52	0.43
1:7B:88:LEU:HD11	2:7b:121:LEU:HD23	2.00	0.43
1:HB:68:LEU:O	1:HB:72:ILE:HG23	2.19	0.43
1:KB:88:LEU:HD11	2:Kb:121:LEU:HD23	2.00	0.43
1:NB:68:LEU:O	1:NB:72:ILE:HG23	2.19	0.43
1:VD:100:LEU:HD12	1:VD:100:LEU:HA	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZA:64:THR:O	1:ZB:78:LYS:NZ	2.52	0.43
1:cA:64:THR:O	1:cB:78:LYS:NZ	2.52	0.43
1:fA:64:THR:O	1:fB:78:LYS:NZ	2.52	0.43
1:gB:88:LEU:HD11	2:gb:121:LEU:HD23	2.00	0.43
1:hA:64:THR:O	1:hB:78:LYS:NZ	2.52	0.43
1:lA:64:THR:O	1:lB:78:LYS:NZ	2.52	0.43
1:sC:69:GLU:HA	1:sC:72:ILE:HG22	2.01	0.43
1:yB:88:LEU:HD11	2:yb:121:LEU:HD23	2.00	0.43
1:zB:47:LEU:HD23	1:zB:47:LEU:HA	1.84	0.43
1:3A:64:THR:O	1:3B:78:LYS:NZ	2.52	0.43
1:3B:47:LEU:HD23	1:3B:47:LEU:HA	1.84	0.43
1:7B:68:LEU:O	1:7B:72:ILE:HG23	2.19	0.43
2:7c:134:ARG:HH12	2:Nb:118:GLU:CD	2.26	0.43
2:Cd:133:SER:O	2:Cd:140:VAL:HG21	2.19	0.43
1:IC:69:GLU:HA	1:IC:72:ILE:HG22	2.01	0.43
1:MC:69:GLU:HA	1:MC:72:ILE:HG22	2.01	0.43
1:OA:64:THR:O	1:OB:78:LYS:NZ	2.52	0.43
1:RB:88:LEU:HD11	2:Rb:121:LEU:HD23	2.00	0.43
1:SA:64:THR:O	1:SB:78:LYS:NZ	2.52	0.43
1:VB:68:LEU:O	1:VB:72:ILE:HG23	2.19	0.43
1:XA:64:THR:O	1:XB:78:LYS:NZ	2.52	0.43
2:Yd:133:SER:O	2:Yd:140:VAL:HG21	2.19	0.43
2:ad:133:SER:O	2:ad:140:VAL:HG21	2.19	0.43
1:cB:68:LEU:O	1:cB:72:ILE:HG23	2.19	0.43
1:eB:62:ILE:HD11	2:fd:193:ASP:O	2.19	0.43
2:ed:167:PRO:HG3	1:gC:92:GLU:CD	2.43	0.43
1:gB:68:LEU:O	1:gB:72:ILE:HG23	2.19	0.43
1:kA:64:THR:O	1:kB:78:LYS:NZ	2.52	0.43
1:mC:70:GLN:O	1:mC:74:ARG:HG2	2.19	0.43
1:oD:73:GLU:CD	2:pa:136:ASN:OD1	2.62	0.43
1:tC:69:GLU:HA	1:tC:72:ILE:HG22	2.01	0.43
1:0C:69:GLU:HA	1:0C:72:ILE:HG22	2.01	0.43
1:0D:100:LEU:HD12	1:0D:100:LEU:HA	1.83	0.43
1:1A:64:THR:O	1:1B:78:LYS:NZ	2.52	0.43
1:1B:68:LEU:O	1:1B:72:ILE:HG23	2.19	0.43
1:4A:64:THR:O	1:4B:78:LYS:NZ	2.52	0.43
1:4C:69:GLU:HA	1:4C:72:ILE:HG22	2.01	0.43
1:4C:70:GLN:O	1:4C:74:ARG:HG2	2.19	0.43
1:4D:100:LEU:HD12	1:4D:100:LEU:HA	1.83	0.43
1:BC:69:GLU:HA	1:BC:72:ILE:HG22	2.01	0.43
1:CD:92:GLU:OE1	2:Cb:134:ARG:NH2	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FC:69:GLU:HA	1:FC:72:ILE:HG22	2.01	0.43
1:GB:88:LEU:HD11	2:Gb:121:LEU:HD23	2.00	0.43
1:HA:64:THR:O	1:HB:78:LYS:NZ	2.52	0.43
1:JB:68:LEU:O	1:JB:72:ILE:HG23	2.19	0.43
1:OD:92:GLU:CD	2:Ob:134:ARG:HH22	2.23	0.43
1:PC:70:GLN:O	1:PC:74:ARG:HG2	2.19	0.43
2:Pc:134:ARG:HH12	2:qb:118:GLU:CD	2.27	0.43
2:Rc:163:LEU:HB3	2:pb:116:ILE:HG13	1.99	0.43
1:VA:64:THR:O	1:VB:78:LYS:NZ	2.52	0.43
1:VC:70:GLN:O	1:VC:74:ARG:HG2	2.19	0.43
1:WC:70:GLN:O	1:WC:74:ARG:HG2	2.19	0.43
1:XC:70:GLN:O	1:XC:74:ARG:HG2	2.19	0.43
1:ZC:70:GLN:O	1:ZC:74:ARG:HG2	2.19	0.43
2:ad:134:ARG:HH22	2:bc:118:GLU:HG3	1.83	0.43
1:cC:70:GLN:O	1:cC:74:ARG:HG2	2.19	0.43
1:eB:56:LYS:HB3	1:eB:56:LYS:HE2	1.82	0.43
1:iB:88:LEU:HD11	2:ib:121:LEU:HD23	2.00	0.43
2:id:133:SER:O	2:id:140:VAL:HG21	2.19	0.43
1:lC:69:GLU:HA	1:lC:72:ILE:HG22	2.01	0.43
1:mA:64:THR:O	1:mB:78:LYS:NZ	2.52	0.43
1:mD:100:LEU:HD12	1:mD:100:LEU:HA	1.83	0.43
1:oB:68:LEU:O	1:oB:72:ILE:HG23	2.19	0.43
1:oC:69:GLU:HA	1:oC:72:ILE:HG22	2.01	0.43
1:rC:69:GLU:HA	1:rC:72:ILE:HG22	2.01	0.43
1:sB:68:LEU:O	1:sB:72:ILE:HG23	2.19	0.43
2:ud:133:SER:O	2:ud:140:VAL:HG21	2.19	0.43
1:0C:70:GLN:O	1:0C:74:ARG:HG2	2.19	0.43
2:0a:173:PRO:HD3	1:zD:43:VAL:HG23	2.01	0.43
1:6B:88:LEU:HD11	2:6b:121:LEU:HD23	2.00	0.43
1:AA:64:THR:O	1:AB:78:LYS:NZ	2.52	0.43
1:GC:69:GLU:HA	1:GC:72:ILE:HG22	2.01	0.43
1:NA:64:THR:O	1:NB:78:LYS:NZ	2.52	0.43
1:QC:70:GLN:O	1:QC:74:ARG:HG2	2.19	0.43
2:Qb:118:GLU:CD	2:qc:134:ARG:HH22	2.22	0.43
1:YC:69:GLU:HA	1:YC:72:ILE:HG22	2.01	0.43
1:YC:70:GLN:O	1:YC:74:ARG:HG2	2.19	0.43
1:ZB:47:LEU:HD23	1:ZB:47:LEU:HA	1.84	0.43
1:aC:70:GLN:O	1:aC:74:ARG:HG2	2.19	0.43
2:ba:177:ASP:OD1	2:ba:181:ARG:NE	2.50	0.43
1:dC:70:GLN:O	1:dC:74:ARG:HG2	2.19	0.43
1:eB:68:LEU:O	1:eB:72:ILE:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hC:69:GLU:HA	1:hC:72:ILE:HG22	2.01	0.43
1:hC:70:GLN:O	1:hC:74:ARG:HG2	2.19	0.43
1:jB:88:LEU:HD11	2:jb:121:LEU:HD23	2.00	0.43
1:nA:64:THR:O	1:nB:78:LYS:NZ	2.52	0.43
1:sB:88:LEU:HD11	2:sb:121:LEU:HD23	2.00	0.43
1:uC:69:GLU:HA	1:uC:72:ILE:HG22	2.01	0.43
1:uC:70:GLN:O	1:uC:74:ARG:HG2	2.19	0.43
1:0A:79:HIS:CE1	1:zD:69:GLU:HG2	2.47	0.42
2:4d:134:ARG:HH22	2:Pc:118:GLU:HG3	1.82	0.42
1:CC:69:GLU:HA	1:CC:72:ILE:HG22	2.01	0.42
1:CC:70:GLN:O	1:CC:74:ARG:HG2	2.19	0.42
1:FB:68:LEU:O	1:FB:72:ILE:HG23	2.19	0.42
1:FB:88:LEU:HD11	2:Fb:121:LEU:HD23	2.00	0.42
1:GC:70:GLN:O	1:GC:74:ARG:HG2	2.19	0.42
1:IC:70:GLN:O	1:IC:74:ARG:HG2	2.19	0.42
1:LB:88:LEU:HD11	2:Lb:121:LEU:HD23	2.00	0.42
1:LC:69:GLU:HA	1:LC:72:ILE:HG22	2.01	0.42
1:MC:70:GLN:O	1:MC:74:ARG:HG2	2.19	0.42
1:PA:64:THR:O	1:PB:78:LYS:NZ	2.52	0.42
2:Rc:134:ARG:HH22	2:pb:118:GLU:CD	2.23	0.42
2:Rd:133:SER:O	2:Rd:140:VAL:HG21	2.19	0.42
1:XB:88:LEU:HD11	2:Xb:121:LEU:HD23	2.00	0.42
1:aC:69:GLU:HA	1:aC:72:ILE:HG22	2.01	0.42
1:cB:88:LEU:HD11	2:cb:121:LEU:HD23	2.00	0.42
1:cD:100:LEU:HD12	1:cD:100:LEU:HA	1.83	0.42
1:iA:64:THR:O	1:iB:78:LYS:NZ	2.52	0.42
1:IC:70:GLN:O	1:IC:74:ARG:HG2	2.19	0.42
1:pA:64:THR:O	1:pB:78:LYS:NZ	2.52	0.42
2:pc:158:GLY:O	2:sb:114:ILE:HG22	2.19	0.42
2:rd:133:SER:O	2:rd:140:VAL:HG21	2.19	0.42
1:tC:62:ILE:CG2	2:zc:195:ILE:HG12	2.40	0.42
1:wC:69:GLU:HA	1:wC:72:ILE:HG22	2.01	0.42
1:xB:68:LEU:O	1:xB:72:ILE:HG23	2.19	0.42
1:zC:69:GLU:HA	1:zC:72:ILE:HG22	2.01	0.42
1:0B:43:VAL:HG13	2:zd:173:PRO:HG3	2.01	0.42
2:1d:133:SER:O	2:1d:140:VAL:HG21	2.19	0.42
1:6C:69:GLU:OE2	1:NC:75:ALA:HB1	2.19	0.42
1:GB:68:LEU:O	1:GB:72:ILE:HG23	2.19	0.42
2:Id:133:SER:O	2:Id:140:VAL:HG21	2.19	0.42
1:JC:70:GLN:O	1:JC:74:ARG:HG2	2.19	0.42
1:KC:70:GLN:O	1:KC:74:ARG:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QC:69:GLU:HA	1:QC:72:ILE:HG22	2.01	0.42
1:RA:64:THR:O	1:RB:78:LYS:NZ	2.52	0.42
2:Ua:177:ASP:OD1	2:Ua:181:ARG:NE	2.50	0.42
1:VB:88:LEU:HD11	2:Vb:121:LEU:HD23	2.00	0.42
1:VC:69:GLU:HA	1:VC:72:ILE:HG22	2.01	0.42
1:WD:100:LEU:HD12	1:WD:100:LEU:HA	1.83	0.42
1:ZB:88:LEU:HD11	2:Zb:121:LEU:HD23	2.00	0.42
1:cC:55:ARG:HB3	1:cC:101:ARG:NH1	2.34	0.42
1:jB:68:LEU:O	1:jB:72:ILE:HG23	2.19	0.42
2:qd:133:SER:O	2:qd:140:VAL:HG21	2.19	0.42
1:rC:70:GLN:O	1:rC:74:ARG:HG2	2.19	0.42
2:xd:133:SER:O	2:xd:140:VAL:HG21	2.19	0.42
1:2D:100:LEU:HD12	1:2D:100:LEU:HA	1.83	0.42
2:2d:133:SER:O	2:2d:140:VAL:HG21	2.19	0.42
1:3C:70:GLN:O	1:3C:74:ARG:HG2	2.19	0.42
1:5A:64:THR:O	1:5B:78:LYS:NZ	2.52	0.42
1:5B:68:LEU:O	1:5B:72:ILE:HG23	2.19	0.42
1:6B:68:LEU:O	1:6B:72:ILE:HG23	2.19	0.42
1:6D:92:GLU:CD	2:6b:134:ARG:HH22	2.23	0.42
1:7D:42:VAL:HG11	1:TD:48:ALA:CB	2.49	0.42
1:AC:70:GLN:O	1:AC:74:ARG:HG2	2.19	0.42
1:AC:101:ARG:HH12	1:rC:55:ARG:HB3	1.84	0.42
1:EB:93:MET:HE2	2:fc:167:PRO:HD2	2.01	0.42
1:EC:69:GLU:HA	1:EC:72:ILE:HG22	2.01	0.42
2:Jd:133:SER:O	2:Jd:140:VAL:HG21	2.19	0.42
1:NC:70:GLN:O	1:NC:74:ARG:HG2	2.19	0.42
2:Nd:133:SER:O	2:Nd:140:VAL:HG21	2.19	0.42
1:OB:88:LEU:HD11	2:Ob:121:LEU:HD23	2.00	0.42
1:RC:69:GLU:HA	1:RC:72:ILE:HG22	2.01	0.42
1:TB:68:LEU:O	1:TB:72:ILE:HG23	2.19	0.42
1:TC:70:GLN:O	1:TC:74:ARG:HG2	2.19	0.42
1:cC:69:GLU:HA	1:cC:72:ILE:HG22	2.01	0.42
1:iB:68:LEU:O	1:iB:72:ILE:HG23	2.19	0.42
1:jD:92:GLU:CD	2:jb:134:ARG:HH22	2.23	0.42
1:kD:92:GLU:CD	2:kb:134:ARG:HH22	2.23	0.42
1:oC:70:GLN:O	1:oC:74:ARG:HG2	2.19	0.42
1:pB:68:LEU:O	1:pB:72:ILE:HG23	2.19	0.42
1:vC:70:GLN:O	1:vC:74:ARG:HG2	2.19	0.42
1:xC:70:GLN:O	1:xC:74:ARG:HG2	2.19	0.42
1:yC:70:GLN:O	1:yC:74:ARG:HG2	2.19	0.42
1:zB:88:LEU:HD11	2:zb:121:LEU:HD23	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:70:GLN:O	1:1C:74:ARG:HG2	2.19	0.42
1:2C:70:GLN:O	1:2C:74:ARG:HG2	2.19	0.42
1:DC:70:GLN:O	1:DC:74:ARG:HG2	2.19	0.42
1:EC:70:GLN:O	1:EC:74:ARG:HG2	2.19	0.42
1:HC:69:GLU:HA	1:HC:72:ILE:HG22	2.01	0.42
1:JC:69:GLU:HA	1:JC:72:ILE:HG22	2.01	0.42
1:KD:100:LEU:HD12	1:KD:100:LEU:HA	1.83	0.42
1:RB:68:LEU:O	1:RB:72:ILE:HG23	2.19	0.42
2:Ud:133:SER:O	2:Ud:140:VAL:HG21	2.19	0.42
1:bC:70:GLN:O	1:bC:74:ARG:HG2	2.19	0.42
2:bd:133:SER:O	2:bd:140:VAL:HG21	2.19	0.42
1:dC:69:GLU:HA	1:dC:72:ILE:HG22	2.01	0.42
1:eC:70:GLN:O	1:eC:74:ARG:HG2	2.19	0.42
2:fa:167:PRO:HG3	1:iA:92:GLU:OE2	2.19	0.42
1:iC:69:GLU:HA	1:iC:72:ILE:HG22	2.01	0.42
1:jA:64:THR:O	1:jB:78:LYS:NZ	2.52	0.42
2:ld:133:SER:O	2:ld:140:VAL:HG21	2.19	0.42
1:oA:64:THR:O	1:oB:78:LYS:NZ	2.52	0.42
2:tb:116:ILE:CD1	2:zc:163:LEU:HD23	2.50	0.42
1:uD:92:GLU:OE1	2:ub:134:ARG:NH2	2.42	0.42
1:wC:70:GLN:O	1:wC:74:ARG:HG2	2.19	0.42
2:zd:133:SER:O	2:zd:140:VAL:HG21	2.19	0.42
1:0B:63:ILE:HB	2:zd:143:LEU:HD11	2.02	0.42
1:2B:68:LEU:O	1:2B:72:ILE:HG23	2.19	0.42
2:4d:133:SER:O	2:4d:140:VAL:HG21	2.19	0.42
1:6A:64:THR:O	1:6B:78:LYS:NZ	2.52	0.42
1:7C:70:GLN:O	1:7C:74:ARG:HG2	2.19	0.42
1:AB:47:LEU:HD23	1:AB:47:LEU:HA	1.84	0.42
1:AC:93:MET:HE3	2:kd:167:PRO:HD2	2.02	0.42
1:DA:64:THR:O	1:DB:78:LYS:NZ	2.52	0.42
1:FC:70:GLN:O	1:FC:74:ARG:HG2	2.19	0.42
2:Fc:134:ARG:HH12	2:ib:118:GLU:CD	2.28	0.42
1:GA:64:THR:O	1:GB:78:LYS:NZ	2.52	0.42
2:Kd:133:SER:O	2:Kd:140:VAL:HG21	2.19	0.42
1:MB:88:LEU:HD11	2:Mb:121:LEU:HD23	2.00	0.42
1:UC:70:GLN:O	1:UC:74:ARG:HG2	2.19	0.42
1:dD:100:LEU:HD12	1:dD:100:LEU:HA	1.83	0.42
1:eC:69:GLU:HA	1:eC:72:ILE:HG22	2.01	0.42
2:eb:116:ILE:HG13	2:xc:163:LEU:HB3	2.01	0.42
1:fC:70:GLN:O	1:fC:74:ARG:HG2	2.19	0.42
1:fD:92:GLU:CD	2:fb:134:ARG:HH22	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gC:70:GLN:O	1:gC:74:ARG:HG2	2.19	0.42
1:kB:88:LEU:HD11	2:kb:121:LEU:HD23	2.00	0.42
2:ob:116:ILE:HG13	2:tc:163:LEU:HB3	2.01	0.42
1:qC:70:GLN:O	1:qC:74:ARG:HG2	2.19	0.42
1:sC:70:GLN:O	1:sC:74:ARG:HG2	2.19	0.42
1:yD:100:LEU:HD12	1:yD:100:LEU:HA	1.83	0.42
2:yd:133:SER:O	2:yd:140:VAL:HG21	2.19	0.42
2:3d:173:PRO:HG3	1:4B:43:VAL:HG13	2.02	0.42
1:4B:68:LEU:O	1:4B:72:ILE:HG23	2.19	0.42
1:5C:69:GLU:HA	1:5C:72:ILE:HG22	2.01	0.42
1:GD:100:LEU:HA	1:GD:100:LEU:HD12	1.83	0.42
2:Hd:133:SER:O	2:Hd:140:VAL:HG21	2.19	0.42
2:Ld:133:SER:O	2:Ld:140:VAL:HG21	2.19	0.42
1:MA:92:GLU:OE2	2:Na:167:PRO:HG3	2.19	0.42
1:RC:70:GLN:O	1:RC:74:ARG:HG2	2.19	0.42
1:SC:70:GLN:O	1:SC:74:ARG:HG2	2.19	0.42
1:TC:69:GLU:HA	1:TC:72:ILE:HG22	2.01	0.42
2:Vd:133:SER:O	2:Vd:140:VAL:HG21	2.19	0.42
1:WC:69:GLU:HA	1:WC:72:ILE:HG22	2.01	0.42
1:dB:68:LEU:O	1:dB:72:ILE:HG23	2.19	0.42
1:iC:70:GLN:O	1:iC:74:ARG:HG2	2.19	0.42
1:jC:70:GLN:O	1:jC:74:ARG:HG2	2.19	0.42
1:nC:69:GLU:HA	1:nC:72:ILE:HG22	2.01	0.42
1:oC:62:ILE:CG2	2:tc:195:ILE:HG12	2.39	0.42
1:pC:69:GLU:HA	1:pC:72:ILE:HG22	2.01	0.42
1:pC:70:GLN:O	1:pC:74:ARG:HG2	2.19	0.42
1:qB:68:LEU:O	1:qB:72:ILE:HG23	2.19	0.42
1:tC:70:GLN:O	1:tC:74:ARG:HG2	2.19	0.42
1:xC:69:GLU:HA	1:xC:72:ILE:HG22	2.01	0.42
1:0B:88:LEU:HD11	2:0b:121:LEU:HD23	2.00	0.42
1:6C:70:GLN:O	1:6C:74:ARG:HG2	2.19	0.42
1:AB:68:LEU:O	1:AB:72:ILE:HG23	2.19	0.42
2:Bd:133:SER:O	2:Bd:140:VAL:HG21	2.19	0.42
2:Fc:171:GLU:HG2	1:iB:93:MET:HE3	2.01	0.42
2:Gd:133:SER:O	2:Gd:140:VAL:HG21	2.19	0.42
1:QB:88:LEU:HD11	2:Qb:121:LEU:HD23	2.00	0.42
1:WB:68:LEU:O	1:WB:72:ILE:HG23	2.19	0.42
1:XB:68:LEU:O	1:XB:72:ILE:HG23	2.19	0.42
1:ZB:68:LEU:O	1:ZB:72:ILE:HG23	2.19	0.42
1:bB:68:LEU:O	1:bB:72:ILE:HG23	2.19	0.42
1:cC:43:VAL:HG23	2:ec:173:PRO:CG	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cd:133:SER:O	2:cd:140:VAL:HG21	2.19	0.42
1:fb:68:LEU:O	1:fb:72:ILE:HG23	2.19	0.42
1:hb:88:LEU:HD11	2:hb:121:LEU:HD23	2.00	0.42
2:ja:177:ASP:OD1	2:ja:181:ARG:NE	2.50	0.42
1:lb:68:LEU:O	1:lb:72:ILE:HG23	2.19	0.42
1:rb:68:LEU:O	1:rb:72:ILE:HG23	2.19	0.42
1:sa:93:MET:HE2	2:ta:171:GLU:CG	2.50	0.42
1:va:64:THR:O	1:vb:78:LYS:NZ	2.52	0.42
2:3d:133:SER:O	2:3d:140:VAL:HG21	2.19	0.42
1:5C:70:GLN:O	1:5C:74:ARG:HG2	2.19	0.42
1:BB:68:LEU:O	1:BB:72:ILE:HG23	2.19	0.42
1:BC:70:GLN:O	1:BC:74:ARG:HG2	2.19	0.42
1:CB:68:LEU:O	1:CB:72:ILE:HG23	2.19	0.42
1:DB:68:LEU:O	1:DB:72:ILE:HG23	2.19	0.42
1:EA:64:THR:O	1:EB:78:LYS:NZ	2.52	0.42
2:Ed:133:SER:O	2:Ed:140:VAL:HG21	2.19	0.42
2:Sd:133:SER:O	2:Sd:140:VAL:HG21	2.19	0.42
2:Ud:193:ASP:O	1:VB:62:ILE:HD11	2.20	0.42
1:cC:60:PHE:HE1	2:ec:172:ILE:HG21	1.84	0.42
2:dd:133:SER:O	2:dd:140:VAL:HG21	2.19	0.42
1:mB:68:LEU:O	1:mB:72:ILE:HG23	2.19	0.42
2:nd:133:SER:O	2:nd:140:VAL:HG21	2.19	0.42
2:od:133:SER:O	2:od:140:VAL:HG21	2.19	0.42
1:uB:68:LEU:O	1:uB:72:ILE:HG23	2.19	0.42
2:vd:133:SER:O	2:vd:140:VAL:HG21	2.19	0.42
1:wA:64:THR:O	1:wB:78:LYS:NZ	2.52	0.42
2:wd:133:SER:O	2:wd:140:VAL:HG21	2.19	0.42
2:0d:133:SER:O	2:0d:140:VAL:HG21	2.19	0.42
1:3B:68:LEU:O	1:3B:72:ILE:HG23	2.19	0.42
1:6B:62:ILE:HD11	2:Pd:193:ASP:O	2.20	0.42
1:6C:69:GLU:HA	1:6C:72:ILE:HG22	2.01	0.42
2:6d:133:SER:O	2:6d:140:VAL:HG21	2.19	0.42
2:Ad:133:SER:O	2:Ad:140:VAL:HG21	2.19	0.42
2:Ad:193:ASP:O	1:lb:62:ILE:HD11	2.20	0.42
1:DC:56:LYS:HE3	1:DC:56:LYS:HB2	1.92	0.42
1:EB:68:LEU:O	1:EB:72:ILE:HG23	2.19	0.42
1:GD:92:GLU:OE1	2:Gb:134:ARG:NH2	2.42	0.42
1:IB:68:LEU:O	1:IB:72:ILE:HG23	2.19	0.42
1:LA:64:THR:O	1:LB:78:LYS:NZ	2.52	0.42
1:PB:68:LEU:O	1:PB:72:ILE:HG23	2.19	0.42
1:SB:68:LEU:O	1:SB:72:ILE:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Wd:133:SER:O	2:Wd:140:VAL:HG21	2.19	0.42
2:Wd:193:ASP:O	1:XB:62:ILE:HD11	2.20	0.42
1:ZB:62:ILE:HD11	2:dd:193:ASP:O	2.20	0.42
2:fd:133:SER:O	2:fd:140:VAL:HG21	2.19	0.42
1:vB:68:LEU:O	1:vB:72:ILE:HG23	2.19	0.42
1:vD:100:LEU:HD12	1:vD:100:LEU:HA	1.83	0.42
2:1d:193:ASP:O	1:xB:62:ILE:HD11	2.20	0.42
1:4D:43:VAL:HA	2:Pa:173:PRO:CG	2.49	0.42
2:6a:177:ASP:OD1	2:6a:181:ARG:NE	2.50	0.42
2:Cd:193:ASP:O	1:DB:62:ILE:HD11	2.20	0.42
2:Dd:133:SER:O	2:Dd:140:VAL:HG21	2.19	0.42
2:Fa:177:ASP:OD1	2:Fa:181:ARG:NE	2.50	0.42
1:GB:62:ILE:HD11	2:Hd:193:ASP:O	2.20	0.42
1:HC:56:LYS:HE3	1:HC:56:LYS:HB2	1.91	0.42
2:Kd:193:ASP:O	1:LB:62:ILE:HD11	2.20	0.42
2:Md:133:SER:O	2:Md:140:VAL:HG21	2.19	0.42
2:Md:134:ARG:HH22	2:Nc:118:GLU:HG3	1.85	0.42
1:SD:92:GLU:CD	2:Sb:134:ARG:HH22	2.23	0.42
1:ZC:69:GLU:HA	1:ZC:72:ILE:HG22	2.01	0.42
1:fA:79:HIS:CE1	1:iD:69:GLU:HG2	2.47	0.42
1:jB:62:ILE:HD11	2:md:193:ASP:O	2.20	0.42
1:sD:100:LEU:HD12	1:sD:100:LEU:HA	1.83	0.42
1:tB:68:LEU:O	1:tB:72:ILE:HG23	2.19	0.42
1:tD:50:LEU:HD21	2:ua:177:ASP:HA	2.01	0.42
2:ta:177:ASP:OD1	2:ta:181:ARG:NE	2.50	0.42
2:ud:193:ASP:O	1:vB:62:ILE:HD11	2.20	0.42
1:vC:56:LYS:HE3	1:vC:56:LYS:HB2	1.91	0.42
1:wB:68:LEU:O	1:wB:72:ILE:HG23	2.19	0.42
1:0B:68:LEU:O	1:0B:72:ILE:HG23	2.19	0.41
2:5d:133:SER:O	2:5d:140:VAL:HG21	2.19	0.41
1:CD:100:LEU:HD12	1:CD:100:LEU:HA	1.83	0.41
1:JD:100:LEU:HA	1:JD:100:LEU:HD12	1.83	0.41
2:Ja:195:ILE:HA	1:ND:62:ILE:HG21	2.02	0.41
1:MB:68:LEU:O	1:MB:72:ILE:HG23	2.19	0.41
2:Od:133:SER:O	2:Od:140:VAL:HG21	2.19	0.41
1:UB:68:LEU:O	1:UB:72:ILE:HG23	2.19	0.41
1:jC:69:GLU:HA	1:jC:72:ILE:HG22	2.01	0.41
2:jd:133:SER:O	2:jd:140:VAL:HG21	2.19	0.41
1:kB:68:LEU:O	1:kB:72:ILE:HG23	2.19	0.41
2:md:133:SER:O	2:md:140:VAL:HG21	2.19	0.41
2:td:133:SER:O	2:td:140:VAL:HG21	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:zA:64:THR:O	1:zB:78:LYS:NZ	2.52	0.41
2:Od:193:ASP:O	1:1B:62:ILE:HD11	2.20	0.41
2:2d:193:ASP:O	1:1B:62:ILE:HD11	2.20	0.41
1:7B:70:GLN:O	1:7B:73:GLU:HG3	2.21	0.41
1:AC:56:LYS:HE3	1:AC:56:LYS:HB2	1.92	0.41
1:BB:70:GLN:O	1:BB:73:GLU:HG3	2.21	0.41
2:Ba:177:ASP:OD1	2:Ba:181:ARG:NE	2.50	0.41
1:HC:70:GLN:O	1:HC:74:ARG:HG2	2.19	0.41
1:LC:70:GLN:O	1:LC:74:ARG:HG2	2.19	0.41
2:Pd:133:SER:O	2:Pd:140:VAL:HG21	2.19	0.41
1:QB:68:LEU:O	1:QB:72:ILE:HG23	2.19	0.41
1:RB:70:GLN:O	1:RB:73:GLU:HG3	2.20	0.41
1:SB:47:LEU:HA	1:SB:47:LEU:HD23	1.84	0.41
1:TB:47:LEU:HD23	1:TB:47:LEU:HA	1.84	0.41
2:Td:133:SER:O	2:Td:140:VAL:HG21	2.19	0.41
1:XC:69:GLU:HA	1:XC:72:ILE:HG22	2.01	0.41
1:bB:70:GLN:O	1:bB:73:GLU:HG3	2.20	0.41
1:bC:69:GLU:HA	1:bC:72:ILE:HG22	2.01	0.41
2:bc:134:ARG:HH12	2:ub:118:GLU:CD	2.27	0.41
2:ed:133:SER:O	2:ed:140:VAL:HG21	2.19	0.41
1:iB:70:GLN:O	1:iB:73:GLU:HG3	2.20	0.41
1:oD:100:LEU:HD12	1:oD:100:LEU:HA	1.83	0.41
2:xd:193:ASP:O	1:yB:62:ILE:HD11	2.21	0.41
2:yd:193:ASP:O	1:zB:62:ILE:HD11	2.20	0.41
1:1D:100:LEU:HD12	1:1D:100:LEU:HA	1.83	0.41
1:3B:70:GLN:O	1:3B:73:GLU:HG3	2.20	0.41
2:4d:194:LEU:HB3	1:PB:63:ILE:O	2.21	0.41
1:6B:70:GLN:O	1:6B:73:GLU:HG3	2.21	0.41
2:7a:123:ALA:HA	2:7a:126:LEU:HD12	2.03	0.41
1:BD:100:LEU:HD12	1:BD:100:LEU:HA	1.83	0.41
2:Jc:163:LEU:HB3	2:Tb:116:ILE:HG13	2.03	0.41
2:Jd:167:PRO:HD2	1:KC:93:MET:HE3	2.02	0.41
1:MB:70:GLN:O	1:MB:73:GLU:HG3	2.21	0.41
1:NB:70:GLN:O	1:NB:73:GLU:HG3	2.20	0.41
1:ND:100:LEU:HD12	1:ND:100:LEU:HA	1.83	0.41
1:OB:68:LEU:O	1:OB:72:ILE:HG23	2.19	0.41
2:Qb:116:ILE:HG13	2:qc:163:LEU:HB3	2.03	0.41
2:Qd:193:ASP:O	1:RB:62:ILE:HD11	2.20	0.41
1:UB:70:GLN:O	1:UB:73:GLU:HG3	2.21	0.41
1:UC:69:GLU:HA	1:UC:72:ILE:HG22	2.01	0.41
1:XB:70:GLN:O	1:XB:73:GLU:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gB:70:GLN:O	1:gB:73:GLU:HG3	2.21	0.41
1:hB:68:LEU:O	1:hB:72:ILE:HG23	2.19	0.41
1:jB:70:GLN:O	1:jB:73:GLU:HG3	2.21	0.41
2:kd:133:SER:O	2:kd:140:VAL:HG21	2.19	0.41
1:nC:70:GLN:O	1:nC:74:ARG:HG2	2.19	0.41
1:oB:47:LEU:HD23	1:oB:47:LEU:HA	1.84	0.41
1:oC:63:ILE:O	2:tc:194:LEU:HD12	2.21	0.41
2:sd:133:SER:O	2:sd:140:VAL:HG21	2.19	0.41
1:tB:70:GLN:O	1:tB:73:GLU:HG3	2.21	0.41
1:uB:47:LEU:HD23	1:uB:47:LEU:HA	1.84	0.41
1:uB:70:GLN:O	1:uB:73:GLU:HG3	2.20	0.41
1:vC:69:GLU:HA	1:vC:72:ILE:HG22	2.01	0.41
1:0B:70:GLN:O	1:0B:73:GLU:HG3	2.21	0.41
2:7d:133:SER:O	2:7d:140:VAL:HG21	2.19	0.41
1:AB:70:GLN:O	1:AB:73:GLU:HG3	2.21	0.41
1:AC:69:GLU:HA	1:AC:72:ILE:HG22	2.01	0.41
1:GB:70:GLN:O	1:GB:73:GLU:HG3	2.21	0.41
2:Jb:118:GLU:CD	2:Vc:134:ARG:HH22	2.23	0.41
2:Ma:177:ASP:OD1	2:Ma:181:ARG:NE	2.50	0.41
1:PC:69:GLU:HA	1:PC:72:ILE:HG22	2.01	0.41
1:SC:69:GLU:HA	1:SC:72:ILE:HG22	2.01	0.41
2:Wa:123:ALA:HA	2:Wa:126:LEU:HD12	2.03	0.41
2:Xd:133:SER:O	2:Xd:140:VAL:HG21	2.19	0.41
1:ZB:70:GLN:O	1:ZB:73:GLU:HG3	2.21	0.41
1:cB:70:GLN:O	1:cB:73:GLU:HG3	2.21	0.41
1:fC:69:GLU:HA	1:fC:72:ILE:HG22	2.01	0.41
2:ga:123:ALA:HA	2:ga:126:LEU:HD12	2.03	0.41
2:ja:123:ALA:HA	2:ja:126:LEU:HD12	2.03	0.41
1:oB:70:GLN:O	1:oB:73:GLU:HG3	2.21	0.41
2:pd:133:SER:O	2:pd:140:VAL:HG21	2.19	0.41
1:qC:69:GLU:HA	1:qC:72:ILE:HG22	2.01	0.41
2:sa:177:ASP:OD1	2:sa:181:ARG:NE	2.50	0.41
2:ua:123:ALA:HA	2:ua:126:LEU:HD12	2.03	0.41
1:yC:69:GLU:HA	1:yC:72:ILE:HG22	2.01	0.41
2:0a:177:ASP:OD1	2:0a:181:ARG:NE	2.50	0.41
1:1B:70:GLN:O	1:1B:73:GLU:HG3	2.21	0.41
2:1a:177:ASP:OD1	2:1a:181:ARG:NE	2.50	0.41
1:3B:62:ILE:HD11	2:Od:193:ASP:O	2.20	0.41
1:3C:69:GLU:HA	1:3C:72:ILE:HG22	2.01	0.41
2:3a:134:ARG:O	2:3a:137:HIS:HB3	2.21	0.41
2:Aa:134:ARG:O	2:Aa:137:HIS:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CB:70:GLN:O	1:CB:73:GLU:HG3	2.21	0.41
2:Ca:134:ARG:O	2:Ca:137:HIS:HB3	2.21	0.41
1:DC:69:GLU:HA	1:DC:72:ILE:HG22	2.01	0.41
1:EB:70:GLN:O	1:EB:73:GLU:HG3	2.21	0.41
2:Ea:123:ALA:HA	2:Ea:126:LEU:HD12	2.03	0.41
1:FD:100:LEU:HD12	1:FD:100:LEU:HA	1.83	0.41
2:Fa:134:ARG:O	2:Fa:137:HIS:HB3	2.21	0.41
2:Fd:133:SER:O	2:Fd:140:VAL:HG21	2.19	0.41
2:Ja:123:ALA:HA	2:Ja:126:LEU:HD12	2.03	0.41
2:Jd:193:ASP:O	1:KB:62:ILE:HD11	2.21	0.41
1:KC:69:GLU:HA	1:KC:72:ILE:HG22	2.01	0.41
2:La:134:ARG:O	2:La:137:HIS:HB3	2.21	0.41
2:La:177:ASP:OD1	2:La:181:ARG:NE	2.50	0.41
2:Na:177:ASP:OD1	2:Na:181:ARG:NE	2.50	0.41
1:OC:69:GLU:HA	1:OC:72:ILE:HG22	2.01	0.41
2:Oa:134:ARG:O	2:Oa:137:HIS:HB3	2.21	0.41
2:Qd:133:SER:O	2:Qd:140:VAL:HG21	2.19	0.41
2:Ra:134:ARG:O	2:Ra:137:HIS:HB3	2.21	0.41
1:UB:62:ILE:HD11	2:Yd:193:ASP:O	2.21	0.41
1:VB:70:GLN:O	1:VB:73:GLU:HG3	2.21	0.41
1:dB:70:GLN:O	1:dB:73:GLU:HG3	2.21	0.41
2:da:123:ALA:HA	2:da:126:LEU:HD12	2.03	0.41
1:eB:47:LEU:HD23	1:eB:47:LEU:HA	1.84	0.41
2:ec:117:TYR:HB2	2:fd:164:VAL:HG22	2.03	0.41
2:hd:133:SER:O	2:hd:140:VAL:HG21	2.19	0.41
2:ia:134:ARG:O	2:ia:137:HIS:HB3	2.21	0.41
2:ka:134:ARG:O	2:ka:137:HIS:HB3	2.21	0.41
1:mC:69:GLU:HA	1:mC:72:ILE:HG22	2.01	0.41
1:nC:56:LYS:HE3	1:nC:56:LYS:HB2	1.91	0.41
2:od:194:LEU:HB3	1:pB:63:ILE:O	2.20	0.41
2:ra:134:ARG:O	2:ra:137:HIS:HB3	2.21	0.41
2:sa:134:ARG:O	2:sa:137:HIS:HB3	2.21	0.41
1:uD:100:LEU:HD12	1:uD:100:LEU:HA	1.83	0.41
2:va:123:ALA:HA	2:va:126:LEU:HD12	2.03	0.41
2:xa:123:ALA:HA	2:xa:126:LEU:HD12	2.03	0.41
1:zC:70:GLN:O	1:zC:74:ARG:HG2	2.19	0.41
1:2C:69:GLU:HA	1:2C:72:ILE:HG22	2.01	0.41
1:4B:70:GLN:O	1:4B:73:GLU:HG3	2.21	0.41
2:6a:123:ALA:HA	2:6a:126:LEU:HD12	2.03	0.41
2:Ca:123:ALA:HA	2:Ca:126:LEU:HD12	2.03	0.41
1:DD:100:LEU:HD12	1:DD:100:LEU:HA	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Da:123:ALA:HA	2:Da:126:LEU:HD12	2.03	0.41
2:Eb:118:GLU:OE2	2:fc:134:ARG:NH2	2.40	0.41
1:GB:47:LEU:HD23	1:GB:47:LEU:HA	1.84	0.41
2:Ia:134:ARG:O	2:Ia:137:HIS:HB3	2.21	0.41
2:Na:134:ARG:O	2:Na:137:HIS:HB3	2.21	0.41
2:Sa:134:ARG:O	2:Sa:137:HIS:HB3	2.21	0.41
2:Va:134:ARG:O	2:Va:137:HIS:HB3	2.21	0.41
1:WB:70:GLN:O	1:WB:73:GLU:HG3	2.21	0.41
2:Zd:133:SER:O	2:Zd:140:VAL:HG21	2.19	0.41
2:ca:134:ARG:O	2:ca:137:HIS:HB3	2.21	0.41
1:eD:50:LEU:HD21	2:ga:177:ASP:HA	2.02	0.41
2:ed:134:ARG:NH2	2:gc:118:GLU:CD	2.79	0.41
1:fB:56:LYS:HB3	1:fB:56:LYS:HE2	1.82	0.41
2:fa:177:ASP:OD1	2:fa:181:ARG:NE	2.50	0.41
2:gd:133:SER:O	2:gd:140:VAL:HG21	2.19	0.41
2:hd:193:ASP:O	1:iB:62:ILE:HD11	2.20	0.41
1:kD:100:LEU:HD12	1:kD:100:LEU:HA	1.83	0.41
2:pc:134:ARG:NH2	2:sb:118:GLU:OE2	2.41	0.41
1:sB:62:ILE:HD11	2:wd:193:ASP:O	2.20	0.41
2:za:134:ARG:O	2:za:137:HIS:HB3	2.21	0.41
2:0a:134:ARG:O	2:0a:137:HIS:HB3	2.21	0.41
2:0a:167:PRO:HG3	1:zA:92:GLU:OE2	2.20	0.41
1:1C:69:GLU:HA	1:1C:72:ILE:HG22	2.01	0.41
2:1a:134:ARG:O	2:1a:137:HIS:HB3	2.21	0.41
1:2B:62:ILE:HD11	2:5d:193:ASP:O	2.21	0.41
2:2a:134:ARG:O	2:2a:137:HIS:HB3	2.21	0.41
1:3C:56:LYS:HE3	1:3C:56:LYS:HB2	1.91	0.41
1:AC:93:MET:HE3	2:kd:171:GLU:OE1	2.20	0.41
2:Aa:195:ILE:HA	1:kD:62:ILE:HG21	2.02	0.41
2:Da:134:ARG:O	2:Da:137:HIS:HB3	2.21	0.41
1:JB:62:ILE:HD11	2:Nd:193:ASP:O	2.20	0.41
1:LB:70:GLN:O	1:LB:73:GLU:HG3	2.21	0.41
2:Lc:177:ASP:O	2:Lc:181:ARG:HG2	2.21	0.41
2:Ma:123:ALA:HA	2:Ma:126:LEU:HD12	2.03	0.41
2:Ma:134:ARG:O	2:Ma:137:HIS:HB3	2.21	0.41
1:OD:100:LEU:HD12	1:OD:100:LEU:HA	1.83	0.41
2:Pa:123:ALA:HA	2:Pa:126:LEU:HD12	2.03	0.41
2:Qa:123:ALA:HA	2:Qa:126:LEU:HD12	2.03	0.41
1:aB:70:GLN:O	1:aB:73:GLU:HG3	2.21	0.41
2:aa:134:ARG:O	2:aa:137:HIS:HB3	2.21	0.41
2:fc:177:ASP:O	2:fc:181:ARG:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ga:134:ARG:O	2:ga:137:HIS:HB3	2.21	0.41
2:gd:193:ASP:O	1:hB:62:ILE:HD11	2.21	0.41
1:kC:69:GLU:HA	1:kC:72:ILE:HG22	2.01	0.41
1:lB:70:GLN:O	1:lB:73:GLU:HG3	2.21	0.41
2:qa:123:ALA:HA	2:qa:126:LEU:HD12	2.03	0.41
2:qa:134:ARG:O	2:qa:137:HIS:HB3	2.21	0.41
2:sa:123:ALA:HA	2:sa:126:LEU:HD12	2.03	0.41
1:tD:100:LEU:HD12	1:tD:100:LEU:HA	1.83	0.41
2:ta:134:ARG:O	2:ta:137:HIS:HB3	2.21	0.41
2:tb:116:ILE:HG13	2:zc:163:LEU:HB3	2.01	0.41
2:ua:134:ARG:O	2:ua:137:HIS:HB3	2.21	0.41
2:va:134:ARG:O	2:va:137:HIS:HB3	2.21	0.41
1:wB:70:GLN:O	1:wB:73:GLU:HG3	2.21	0.41
2:wa:123:ALA:HA	2:wa:126:LEU:HD12	2.03	0.41
2:za:177:ASP:OD1	2:za:181:ARG:NE	2.50	0.41
2:0a:123:ALA:HA	2:0a:126:LEU:HD12	2.03	0.41
2:2a:123:ALA:HA	2:2a:126:LEU:HD12	2.03	0.41
2:3c:177:ASP:O	2:3c:181:ARG:HG2	2.21	0.41
2:4c:177:ASP:O	2:4c:181:ARG:HG2	2.21	0.41
2:7d:134:ARG:HH22	2:Qc:118:GLU:HG3	1.86	0.41
2:Ac:177:ASP:O	2:Ac:181:ARG:HG2	2.21	0.41
2:Ba:123:ALA:HA	2:Ba:126:LEU:HD12	2.03	0.41
2:Ba:134:ARG:O	2:Ba:137:HIS:HB3	2.21	0.41
1:CB:47:LEU:HD23	1:CB:47:LEU:HA	1.84	0.41
2:Ka:123:ALA:HA	2:Ka:126:LEU:HD12	2.03	0.41
2:Ld:193:ASP:O	1:MB:62:ILE:HD11	2.21	0.41
2:Pc:177:ASP:O	2:Pc:181:ARG:HG2	2.21	0.41
1:SB:56:LYS:HB3	1:SB:56:LYS:HE2	1.82	0.41
2:Sa:177:ASP:OD1	2:Sa:181:ARG:NE	2.50	0.41
2:Uc:177:ASP:O	2:Uc:181:ARG:HG2	2.21	0.41
1:YB:70:GLN:O	1:YB:73:GLU:HG3	2.21	0.41
2:Ya:134:ARG:O	2:Ya:137:HIS:HB3	2.21	0.41
2:fa:134:ARG:O	2:fa:137:HIS:HB3	2.21	0.41
1:gC:69:GLU:HA	1:gC:72:ILE:HG22	2.01	0.41
2:ha:123:ALA:HA	2:ha:126:LEU:HD12	2.03	0.41
2:ja:134:ARG:O	2:ja:137:HIS:HB3	2.21	0.41
1:kB:47:LEU:HA	1:kB:47:LEU:HD23	1.84	0.41
1:kC:70:GLN:O	1:kC:74:ARG:HG2	2.19	0.41
2:lc:177:ASP:O	2:lc:181:ARG:HG2	2.21	0.41
2:ld:193:ASP:O	1:mB:62:ILE:HD11	2.21	0.41
2:mc:177:ASP:O	2:mc:181:ARG:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:oD:92:GLU:OE1	2:ob:134:ARG:NH2	2.42	0.41
1:rB:70:GLN:O	1:rB:73:GLU:HG3	2.20	0.41
1:yB:70:GLN:O	1:yB:73:GLU:HG3	2.21	0.41
2:ya:123:ALA:HA	2:ya:126:LEU:HD12	2.03	0.41
1:zB:70:GLN:O	1:zB:73:GLU:HG3	2.21	0.41
2:zc:177:ASP:O	2:zc:181:ARG:HG2	2.21	0.41
1:2B:91:ILE:HG12	2:2b:128:PHE:CZ	2.56	0.41
1:3D:47:LEU:HD22	1:3D:58:VAL:HG11	2.03	0.41
1:4D:50:LEU:HD21	2:Pa:177:ASP:CA	2.51	0.41
1:5B:62:ILE:HD11	2:Gd:193:ASP:O	2.21	0.41
1:5B:70:GLN:O	1:5B:73:GLU:HG3	2.21	0.41
2:6a:134:ARG:O	2:6a:137:HIS:HB3	2.21	0.41
2:6c:163:LEU:HB3	2:7b:116:ILE:HG13	2.02	0.41
1:7B:55:ARG:CZ	1:TD:101:ARG:CZ	2.99	0.41
2:7a:134:ARG:O	2:7a:137:HIS:HB3	2.21	0.41
1:AD:47:LEU:HD22	1:AD:58:VAL:HG11	2.03	0.41
2:Ba:117:TYR:HB2	2:Ca:164:VAL:HG22	2.02	0.41
2:Bd:193:ASP:O	1:CB:62:ILE:HD11	2.21	0.41
1:DB:70:GLN:O	1:DB:73:GLU:HG3	2.20	0.41
1:EA:92:GLU:OE2	2:Fa:167:PRO:HG3	2.20	0.41
1:FC:75:ALA:HB1	1:iC:69:GLU:OE2	2.20	0.41
2:Fa:123:ALA:HA	2:Fa:126:LEU:HD12	2.03	0.41
2:Ga:123:ALA:HA	2:Ga:126:LEU:HD12	2.03	0.41
2:Ha:134:ARG:O	2:Ha:137:HIS:HB3	2.21	0.41
1:IB:70:GLN:O	1:IB:73:GLU:HG3	2.21	0.41
2:Jc:171:GLU:HG2	1:TB:93:MET:HE3	2.02	0.41
1:KB:70:GLN:O	1:KB:73:GLU:HG3	2.21	0.41
1:NC:69:GLU:HA	1:NC:72:ILE:HG22	2.01	0.41
1:OB:47:LEU:HA	1:OB:47:LEU:HD23	1.84	0.41
1:OC:70:GLN:O	1:OC:74:ARG:HG2	2.19	0.41
2:Oc:177:ASP:O	2:Oc:181:ARG:HG2	2.21	0.41
1:PB:70:GLN:O	1:PB:73:GLU:HG3	2.21	0.41
1:PD:47:LEU:HD22	1:PD:58:VAL:HG11	2.03	0.41
2:Pa:134:ARG:O	2:Pa:137:HIS:HB3	2.21	0.41
2:Pc:163:LEU:HD23	2:qb:116:ILE:CD1	2.51	0.41
2:Ra:123:ALA:HA	2:Ra:126:LEU:HD12	2.03	0.41
2:Sc:177:ASP:O	2:Sc:181:ARG:HG2	2.21	0.41
1:TB:70:GLN:O	1:TB:73:GLU:HG3	2.20	0.41
1:UD:100:LEU:HD12	1:UD:100:LEU:HA	1.83	0.41
2:Vc:177:ASP:O	2:Vc:181:ARG:HG2	2.21	0.41
1:XC:56:LYS:HE3	1:XC:56:LYS:HB2	1.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Xc:177:ASP:O	2:Xc:181:ARG:HG2	2.21	0.41
2:Yc:177:ASP:O	2:Yc:181:ARG:HG2	2.21	0.41
2:Zc:177:ASP:O	2:Zc:181:ARG:HG2	2.21	0.41
2:Zd:193:ASP:O	1:aB:62:ILE:HD11	2.21	0.41
2:ac:177:ASP:O	2:ac:181:ARG:HG2	2.21	0.41
1:bB:91:ILE:HG12	2:bb:128:PHE:CZ	2.56	0.41
2:bc:177:ASP:O	2:bc:181:ARG:HG2	2.21	0.41
2:ca:123:ALA:HA	2:ca:126:LEU:HD12	2.03	0.41
2:cc:177:ASP:O	2:cc:181:ARG:HG2	2.21	0.41
2:cd:193:ASP:O	1:dB:62:ILE:HD11	2.21	0.41
2:ea:123:ALA:HA	2:ea:126:LEU:HD12	2.03	0.41
2:eb:118:GLU:CD	2:xc:134:ARG:HH22	2.19	0.41
1:fB:63:ILE:HB	2:id:143:LEU:HD11	2.02	0.41
2:ic:177:ASP:O	2:ic:181:ARG:HG2	2.21	0.41
2:kc:177:ASP:O	2:kc:181:ARG:HG2	2.21	0.41
1:mB:70:GLN:O	1:mB:73:GLU:HG3	2.21	0.41
2:ma:123:ALA:HA	2:ma:126:LEU:HD12	2.03	0.41
2:ma:134:ARG:O	2:ma:137:HIS:HB3	2.21	0.41
2:na:134:ARG:O	2:na:137:HIS:HB3	2.21	0.41
2:nd:167:PRO:HD2	1:oC:93:MET:HE3	2.03	0.41
2:od:164:VAL:HG22	2:pc:117:TYR:HB2	2.01	0.41
1:pB:70:GLN:O	1:pB:73:GLU:HG3	2.21	0.41
2:ta:123:ALA:HA	2:ta:126:LEU:HD12	2.03	0.41
2:vd:193:ASP:O	1:wB:62:ILE:HD11	2.21	0.41
1:xB:70:GLN:O	1:xB:73:GLU:HG3	2.21	0.41
1:6B:91:ILE:HG12	2:6b:128:PHE:CZ	2.56	0.41
1:7C:69:GLU:HA	1:7C:72:ILE:HG22	2.01	0.41
1:CB:91:ILE:HG12	2:Cb:128:PHE:CZ	2.56	0.41
2:Dd:193:ASP:O	1:EB:62:ILE:HD11	2.21	0.41
1:EB:91:ILE:HG12	2:Eb:128:PHE:CZ	2.56	0.41
1:ED:101:ARG:CZ	1:FB:55:ARG:CZ	2.99	0.41
1:JB:91:ILE:HG12	2:Jb:128:PHE:CZ	2.56	0.41
2:Ka:134:ARG:O	2:Ka:137:HIS:HB3	2.21	0.41
2:Nc:177:ASP:O	2:Nc:181:ARG:HG2	2.21	0.41
2:Rc:177:ASP:O	2:Rc:181:ARG:HG2	2.21	0.41
2:Sd:193:ASP:O	1:TB:62:ILE:HD11	2.20	0.41
1:UB:91:ILE:HG12	2:Ub:128:PHE:CZ	2.56	0.41
1:VB:91:ILE:HG12	2:Vb:128:PHE:CZ	2.56	0.41
2:Vd:193:ASP:O	1:WB:62:ILE:HD11	2.21	0.41
2:Xd:193:ASP:O	1:YB:62:ILE:HD11	2.21	0.41
1:aC:56:LYS:HE3	1:aC:56:LYS:HB2	1.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ad:173:PRO:HG3	1:bB:43:VAL:HG13	2.01	0.41
1:cB:91:ILE:HG12	2:cb:128:PHE:CZ	2.56	0.41
2:cd:173:PRO:HG3	1:dB:43:VAL:HG13	2.03	0.41
1:eB:70:GLN:O	1:eB:73:GLU:HG3	2.21	0.41
1:jB:91:ILE:HG12	2:jb:128:PHE:CZ	2.56	0.41
1:mD:47:LEU:HD22	1:mD:58:VAL:HG11	2.03	0.41
1:nB:70:GLN:O	1:nB:73:GLU:HG3	2.20	0.41
1:oD:73:GLU:HB2	2:pa:139:LEU:CD1	2.51	0.41
2:pa:134:ARG:O	2:pa:137:HIS:HB3	2.21	0.41
1:qB:91:ILE:HG12	2:qb:128:PHE:CZ	2.56	0.41
2:td:193:ASP:O	1:uB:62:ILE:HD11	2.21	0.41
1:uB:91:ILE:HG12	2:ub:128:PHE:CZ	2.56	0.41
1:vB:70:GLN:O	1:vB:73:GLU:HG3	2.21	0.41
1:wB:91:ILE:HG12	2:wb:128:PHE:CZ	2.56	0.41
1:xB:91:ILE:HG12	2:xb:128:PHE:CZ	2.56	0.41
2:xa:177:ASP:OD1	2:xa:181:ARG:NE	2.50	0.41
2:ya:134:ARG:O	2:ya:137:HIS:HB3	2.21	0.41
1:0C:75:ALA:HB1	1:nC:69:GLU:OE2	2.21	0.40
2:1c:177:ASP:O	2:1c:181:ARG:HG2	2.21	0.40
1:2B:47:LEU:HD23	1:2B:47:LEU:HA	1.84	0.40
2:5a:134:ARG:O	2:5a:137:HIS:HB3	2.21	0.40
1:7B:91:ILE:HG12	2:7b:128:PHE:CZ	2.56	0.40
2:Bc:177:ASP:O	2:Bc:181:ARG:HG2	2.21	0.40
1:ED:48:ALA:CB	1:FD:42:VAL:HG11	2.50	0.40
1:HB:70:GLN:O	1:HB:73:GLU:HG3	2.21	0.40
2:Ic:139:LEU:HD11	1:lC:69:GLU:OE1	2.22	0.40
1:JB:70:GLN:O	1:JB:73:GLU:HG3	2.21	0.40
2:Jc:177:ASP:O	2:Jc:181:ARG:HG2	2.21	0.40
1:RC:69:GLU:OE1	2:sc:139:LEU:HD11	2.21	0.40
2:Ta:123:ALA:HA	2:Ta:126:LEU:HD12	2.03	0.40
2:Va:123:ALA:HA	2:Va:126:LEU:HD12	2.03	0.40
2:Vd:173:PRO:HG3	1:WB:43:VAL:HG13	2.04	0.40
2:Wc:177:ASP:O	2:Wc:181:ARG:HG2	2.21	0.40
2:dc:177:ASP:O	2:dc:181:ARG:HG2	2.21	0.40
2:eb:116:ILE:CD1	2:xc:163:LEU:HD23	2.51	0.40
2:fa:134:ARG:NH2	2:ia:118:GLU:CD	2.78	0.40
1:gB:91:ILE:HG12	2:gb:128:PHE:CZ	2.56	0.40
2:gc:177:ASP:O	2:gc:181:ARG:HG2	2.21	0.40
1:hB:70:GLN:O	1:hB:73:GLU:HG3	2.20	0.40
2:ia:123:ALA:HA	2:ia:126:LEU:HD12	2.03	0.40
1:oD:73:GLU:OE1	2:pa:136:ASN:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pc:163:LEU:HB3	2:sb:116:ILE:HG13	2.02	0.40
2:pd:171:GLU:OE1	1:qC:93:MET:HE3	2.21	0.40
2:tc:177:ASP:O	2:tc:181:ARG:HG2	2.21	0.40
2:Aa:123:ALA:HA	2:Aa:126:LEU:HD12	2.03	0.40
2:Ad:171:GLU:OE1	1:lC:93:MET:HE3	2.21	0.40
2:Bc:134:ARG:NH2	2:Gb:118:GLU:OE2	2.43	0.40
1:HB:43:VAL:HG13	2:Id:173:PRO:HG3	2.03	0.40
2:Ha:123:ALA:HA	2:Ha:126:LEU:HD12	2.03	0.40
1:ID:47:LEU:HD22	1:ID:58:VAL:HG11	2.03	0.40
1:ND:92:GLU:OE1	2:Nb:134:ARG:NH2	2.41	0.40
1:QB:47:LEU:HD23	1:QB:47:LEU:HA	1.84	0.40
2:Qc:177:ASP:O	2:Qc:181:ARG:HG2	2.21	0.40
2:Qd:173:PRO:HG3	1:RB:43:VAL:HG13	2.04	0.40
2:Ra:177:ASP:OD1	2:Ra:181:ARG:NE	2.50	0.40
2:Tc:177:ASP:O	2:Tc:181:ARG:HG2	2.21	0.40
2:bd:193:ASP:O	1:cB:62:ILE:HD11	2.21	0.40
2:ec:177:ASP:O	2:ec:181:ARG:HG2	2.21	0.40
2:fa:173:PRO:HD3	1:iD:43:VAL:HG23	2.03	0.40
2:gd:173:PRO:HG3	1:hB:43:VAL:HG13	2.03	0.40
2:hc:177:ASP:O	2:hc:181:ARG:HG2	2.21	0.40
2:oa:123:ALA:HA	2:oa:126:LEU:HD12	2.03	0.40
2:oc:177:ASP:O	2:oc:181:ARG:HG2	2.21	0.40
1:pD:47:LEU:HD22	1:pD:58:VAL:HG11	2.03	0.40
1:rD:47:LEU:HD22	1:rD:58:VAL:HG11	2.03	0.40
2:wa:134:ARG:O	2:wa:137:HIS:HB3	2.21	0.40
1:zD:100:LEU:HD12	1:zD:100:LEU:HA	1.83	0.40
1:0B:91:ILE:HG12	2:0b:128:PHE:CZ	2.56	0.40
1:1D:47:LEU:HD22	1:1D:58:VAL:HG11	2.03	0.40
2:2c:177:ASP:O	2:2c:181:ARG:HG2	2.21	0.40
2:3a:123:ALA:HA	2:3a:126:LEU:HD12	2.03	0.40
1:4A:60:PHE:HE2	1:4A:62:ILE:HD11	1.87	0.40
1:5D:47:LEU:HD22	1:5D:58:VAL:HG11	2.03	0.40
2:7c:177:ASP:O	2:7c:181:ARG:HG2	2.21	0.40
1:DB:91:ILE:HG12	2:Db:128:PHE:CZ	2.56	0.40
2:Dd:173:PRO:HG3	1:EB:43:VAL:HG13	2.03	0.40
2:Ea:134:ARG:O	2:Ea:137:HIS:HB3	2.21	0.40
1:FB:70:GLN:O	1:FB:73:GLU:HG3	2.21	0.40
1:FD:47:LEU:HD22	1:FD:58:VAL:HG11	2.03	0.40
2:Ja:177:ASP:OD1	2:Ja:181:ARG:NE	2.50	0.40
1:KB:91:ILE:HG12	2:Kb:128:PHE:CZ	2.56	0.40
1:MD:43:VAL:HG23	2:Na:173:PRO:HD3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QB:70:GLN:O	1:QB:73:GLU:HG3	2.21	0.40
1:QC:69:GLU:OE2	1:qC:75:ALA:HB1	2.21	0.40
1:RB:56:LYS:HB3	1:RB:56:LYS:HE2	1.82	0.40
1:SB:91:ILE:HG12	2:Sb:128:PHE:CZ	2.56	0.40
2:Za:134:ARG:O	2:Za:137:HIS:HB3	2.21	0.40
2:bd:143:LEU:HD11	1:cB:63:ILE:HB	2.02	0.40
1:fD:47:LEU:HD22	1:fD:58:VAL:HG11	2.03	0.40
2:hd:173:PRO:HG3	1:iB:43:VAL:HG13	2.04	0.40
1:nA:60:PHE:HE2	1:nA:62:ILE:HD11	1.87	0.40
1:nB:62:ILE:HD11	2:rd:193:ASP:O	2.21	0.40
1:qB:47:LEU:HD23	1:qB:47:LEU:HA	1.84	0.40
1:qD:62:ILE:HG21	2:ra:195:ILE:HA	2.03	0.40
2:qc:177:ASP:O	2:qc:181:ARG:HG2	2.21	0.40
2:qd:193:ASP:O	1:rB:62:ILE:HD11	2.22	0.40
1:rD:100:LEU:HD12	1:rD:100:LEU:HA	1.83	0.40
1:tD:47:LEU:HD22	1:tD:58:VAL:HG11	2.03	0.40
1:vB:91:ILE:HG12	2:vb:128:PHE:CZ	2.56	0.40
2:xc:177:ASP:O	2:xc:181:ARG:HG2	2.21	0.40
1:yB:91:ILE:HG12	2:yb:128:PHE:CZ	2.56	0.40
2:0b:116:ILE:CD1	2:kc:163:LEU:HD23	2.52	0.40
2:0c:158:GLY:O	2:nb:114:ILE:HG22	2.21	0.40
1:6D:62:ILE:HG21	2:Oa:195:ILE:HA	2.04	0.40
1:7D:47:LEU:HD22	1:7D:58:VAL:HG11	2.03	0.40
1:BD:47:LEU:HD22	1:BD:58:VAL:HG11	2.03	0.40
1:DA:60:PHE:HE2	1:DA:62:ILE:HD11	1.87	0.40
1:DD:62:ILE:HG21	2:Ea:195:ILE:HA	2.04	0.40
2:Ea:177:ASP:OD1	2:Ea:181:ARG:NE	2.50	0.40
2:Gc:177:ASP:O	2:Gc:181:ARG:HG2	2.21	0.40
1:HA:60:PHE:HE2	1:HA:62:ILE:HD11	1.87	0.40
1:HB:62:ILE:HD11	2:Id:193:ASP:O	2.21	0.40
1:ID:100:LEU:HD12	1:ID:100:LEU:HA	1.83	0.40
1:LD:100:LEU:HA	1:LD:100:LEU:HD12	1.83	0.40
1:MB:91:ILE:HG12	2:Mb:128:PHE:CZ	2.56	0.40
2:Rd:173:PRO:HG3	1:SB:43:VAL:HG13	2.04	0.40
1:UA:60:PHE:HE2	1:UA:62:ILE:HD11	1.87	0.40
2:Ua:123:ALA:HA	2:Ua:126:LEU:HD12	2.03	0.40
2:Xa:134:ARG:O	2:Xa:137:HIS:HB3	2.21	0.40
1:YC:56:LYS:HE3	1:YC:56:LYS:HB2	1.91	0.40
1:aB:91:ILE:HG12	2:ab:128:PHE:CZ	2.56	0.40
1:bA:60:PHE:HE2	1:bA:62:ILE:HD11	1.87	0.40
1:dB:91:ILE:HG12	2:db:128:PHE:CZ	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dc:134:ARG:HH22	2:fb:118:GLU:CD	2.21	0.40
1:gD:47:LEU:HD22	1:gD:58:VAL:HG11	2.03	0.40
2:hc:134:ARG:HH12	2:mb:118:GLU:CD	2.30	0.40
1:iB:56:LYS:HB3	1:iB:56:LYS:HE2	1.82	0.40
1:kB:91:ILE:HG12	2:kb:128:PHE:CZ	2.56	0.40
1:lA:60:PHE:HE2	1:lA:62:ILE:HD11	1.87	0.40
2:ld:173:PRO:HG3	1:mB:43:VAL:HG13	2.03	0.40
1:nB:43:VAL:HG13	2:rd:173:PRO:HG3	2.04	0.40
2:na:123:ALA:HA	2:na:126:LEU:HD12	2.03	0.40
1:oD:47:LEU:HD22	1:oD:58:VAL:HG11	2.03	0.40
2:ra:177:ASP:OD1	2:ra:181:ARG:NE	2.50	0.40
1:sD:47:LEU:HD22	1:sD:58:VAL:HG11	2.03	0.40
2:uc:177:ASP:O	2:uc:181:ARG:HG2	2.21	0.40
1:vD:62:ILE:HG21	2:wa:195:ILE:HA	2.04	0.40
1:yD:62:ILE:HG21	2:za:195:ILE:HA	2.04	0.40
1:1D:92:GLU:OE1	2:1b:134:ARG:NH2	2.42	0.40
2:4a:134:ARG:O	2:4a:137:HIS:HB3	2.21	0.40
2:5a:123:ALA:HA	2:5a:126:LEU:HD12	2.03	0.40
2:5c:177:ASP:O	2:5c:181:ARG:HG2	2.21	0.40
1:6A:60:PHE:HE2	1:6A:62:ILE:HD11	1.87	0.40
2:6d:193:ASP:O	1:OB:62:ILE:HD11	2.21	0.40
1:7A:60:PHE:HE2	1:7A:62:ILE:HD11	1.87	0.40
1:AB:62:ILE:HD11	2:kd:193:ASP:O	2.21	0.40
2:Ad:167:PRO:HD2	2:Ad:171:GLU:OE1	2.22	0.40
2:Bc:195:ILE:HD13	2:Bc:195:ILE:HA	1.92	0.40
1:CA:60:PHE:HE2	1:CA:62:ILE:HD11	1.87	0.40
2:Cc:139:LEU:HD11	1:KC:69:GLU:OE1	2.22	0.40
2:Cc:177:ASP:O	2:Cc:181:ARG:HG2	2.21	0.40
1:FC:56:LYS:HE3	1:FC:56:LYS:HB2	1.91	0.40
2:Fd:167:PRO:HD2	2:Fd:171:GLU:OE1	2.22	0.40
1:ID:70:GLN:O	1:ID:74:ARG:HG2	2.22	0.40
2:Ia:177:ASP:OD1	2:Ia:181:ARG:NE	2.50	0.40
1:ND:47:LEU:HD22	1:ND:58:VAL:HG11	2.03	0.40
1:OB:91:ILE:HG12	2:Ob:128:PHE:CZ	2.56	0.40
2:Pb:118:GLU:CD	2:Qc:134:ARG:HH12	2.30	0.40
2:Ua:134:ARG:O	2:Ua:137:HIS:HB3	2.21	0.40
1:VA:60:PHE:HE2	1:VA:62:ILE:HD11	1.87	0.40
1:WB:91:ILE:HG12	2:Wb:128:PHE:CZ	2.56	0.40
2:Wa:134:ARG:O	2:Wa:137:HIS:HB3	2.21	0.40
2:ba:134:ARG:O	2:ba:137:HIS:HB3	2.21	0.40
1:cD:70:GLN:O	1:cD:74:ARG:HG2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cd:167:PRO:HD2	2:cd:171:GLU:OE1	2.22	0.40
2:da:134:ARG:O	2:da:137:HIS:HB3	2.21	0.40
1:eB:91:ILE:HG12	2:eb:128:PHE:CZ	2.56	0.40
1:gA:60:PHE:HE2	1:gA:62:ILE:HD11	1.87	0.40
2:ia:177:ASP:OD1	2:ia:181:ARG:NE	2.50	0.40
1:jA:60:PHE:HE2	1:jA:62:ILE:HD11	1.87	0.40
1:jD:62:ILE:HG21	2:ka:195:ILE:HA	2.04	0.40
1:kB:70:GLN:O	1:kB:73:GLU:HG3	2.21	0.40
1:rB:91:ILE:HG12	2:rb:128:PHE:CZ	2.56	0.40
1:sA:60:PHE:HE2	1:sA:62:ILE:HD11	1.87	0.40
1:sB:91:ILE:HG12	2:sb:128:PHE:CZ	2.56	0.40
1:uA:60:PHE:HE2	1:uA:62:ILE:HD11	1.87	0.40
2:ua:177:ASP:OD1	2:ua:181:ARG:NE	2.50	0.40
1:vA:60:PHE:HE2	1:vA:62:ILE:HD11	1.87	0.40
1:xB:47:LEU:HD23	1:xB:47:LEU:HA	1.84	0.40
1:zC:56:LYS:HE3	1:zC:56:LYS:HB2	1.91	0.40
1:zD:47:LEU:HD22	1:zD:58:VAL:HG11	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	0A	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	0B	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	0C	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	0D	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	1A	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	1B	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	1C	62/113 (55%)	61 (98%)	1 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1D	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	2A	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	2B	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	2C	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	2D	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	3A	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	3B	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	3C	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	3D	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	4A	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	4B	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	4C	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	4D	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	5A	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	5B	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	5C	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	5D	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	6A	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	6B	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	6C	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	6D	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	7A	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	7B	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	7C	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	7D	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	AA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	AB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	AC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	AD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	BA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	BB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	BC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	BD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	CA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	CB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	CC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	CD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	DA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	DB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	DC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	DD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	EA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	EB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	EC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	ED	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	FA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	FB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	FC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	FD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	GA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	GB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	GC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	GD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	HA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	HB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	HC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	HD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	IA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	IB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	IC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	ID	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	JA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	JB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	JC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	JD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	KA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	KB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	KC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	KD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	LA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	LB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	LC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	LD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	MA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	MB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	MC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	MD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	NA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	NB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	NC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	ND	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	OA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	OB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	OC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	OD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	PA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	PB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	PC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	PD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	QA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	QB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	QC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	QD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	RA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	RB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	RC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	RD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	SA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	SB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	SC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	SD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	TA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	TB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	TC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	TD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	UA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	UB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	UC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	UD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	VA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	VB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	VC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	VD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	WA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	WB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	WC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	WD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	XA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	XB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	XC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	XD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	YA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	YB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	YC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	YD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	ZA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	ZB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	ZC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	ZD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	aA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	aB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	aC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	aD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	bA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	bB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	bC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	bD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	cA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	cB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	cC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	cD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	dA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	dB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	dC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	dD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	eA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	eB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	eC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	eD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	fA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	fB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	fC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	fD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	gA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	gB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	gC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	gD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	hA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	hB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	hC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	hD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	iA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	iB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	iC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	iD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	jA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	jB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	jC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	jD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	kA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	kB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	kC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	kD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	lA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	lB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	lC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	lD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	mA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	mB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	mC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	mD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	nA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	nB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	nC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	nD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	oA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	oB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	oC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	oD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	pA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	pB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	pC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	pD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	qA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	qB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	qC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	qD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	rA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	rB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	rC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	rD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	sA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	sB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	sC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	sD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	tA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	tB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	tC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	tD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	uA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	uB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	uC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	uD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	vA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	vB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	vC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	vD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	wA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	wB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	wC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	wD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	xA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	xB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	xC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	xD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	yA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	yB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	yC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	yD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
1	zA	61/113 (54%)	58 (95%)	3 (5%)	0	100	100
1	zB	62/113 (55%)	60 (97%)	2 (3%)	0	100	100
1	zC	62/113 (55%)	61 (98%)	1 (2%)	0	100	100
1	zD	65/113 (58%)	64 (98%)	1 (2%)	0	100	100
2	0a	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	0b	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	0c	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	0d	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	1a	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	1b	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	1c	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	1d	80/86 (93%)	78 (98%)	2 (2%)	0	100	100
2	2a	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	2b	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	2c	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	2d	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	3a	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	3b	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	3c	81/86 (94%)	79 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	3d	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	4a	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	4b	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	4c	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	4d	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	5a	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	5b	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	5c	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	5d	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	6a	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	6b	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	6c	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	6d	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	7a	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	7b	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	7c	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	7d	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	Aa	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Ab	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Ac	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Ad	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	Ba	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Bb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Bc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Bd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	Ca	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Cb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Cc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Cd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	Da	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Db	81/86 (94%)	79 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	Dc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Dd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	Ea	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Eb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Ec	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Ed	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	Fa	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Fb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Fc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Fd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	Ga	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Gb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Gc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Gd	80/86 (93%)	78 (98%)	2 (2%)	0	100	100
2	Ha	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Hb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Hc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Hd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	Ia	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Ib	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Ic	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Id	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	Ja	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Jb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Jc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Jd	80/86 (93%)	78 (98%)	2 (2%)	0	100	100
2	Ka	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Kb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Kc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Kd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	La	81/86 (94%)	78 (96%)	3 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	Lb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Lc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Ld	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	Ma	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Mb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Mc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Md	80/86 (93%)	78 (98%)	2 (2%)	0	100	100
2	Na	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Nb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Nc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Nd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	Oa	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Ob	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Oc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Od	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	Pa	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Pb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Pc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Pd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	Qa	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Qb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Qc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Qd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	Ra	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Rb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Rc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Rd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	Sa	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Sb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Sc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Sd	80/86 (93%)	78 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	Ta	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Tb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Tc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Td	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	Ua	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Ub	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Uc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Ud	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	Va	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Vb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Vc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Vd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	Wa	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Wb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Wc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Wd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	Xa	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Xb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Xc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Xd	80/86 (93%)	78 (98%)	2 (2%)	0	100	100
2	Ya	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Yb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Yc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Yd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	Za	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	Zb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Zc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	Zd	80/86 (93%)	78 (98%)	2 (2%)	0	100	100
2	aa	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	ab	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	ac	81/86 (94%)	79 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	ad	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	ba	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	bb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	bc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	bd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	ca	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	cb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	cc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	cd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	da	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	db	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	dc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	dd	80/86 (93%)	78 (98%)	2 (2%)	0	100	100
2	ea	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	eb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	ec	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	ed	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	fa	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	fb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	fc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	fd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	ga	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	gb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	gc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	gd	80/86 (93%)	78 (98%)	2 (2%)	0	100	100
2	ha	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	hb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	hc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	hd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	ia	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	ib	81/86 (94%)	79 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	ic	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	id	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	ja	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	jb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	jc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	jd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	ka	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	kb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	kc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	kd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	la	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	lb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	lc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	ld	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	ma	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	mb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	mc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	md	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	na	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	nb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	nc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	nd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	oa	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	ob	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	oc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	od	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	pa	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	pb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	pc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	pd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	qa	81/86 (94%)	78 (96%)	3 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	qb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	qc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	qd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	ra	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	rb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	rc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	rd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	sa	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	sb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	sc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	sd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	ta	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	tb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	tc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	td	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	ua	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	ub	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	uc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	ud	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	va	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	vb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	vc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	vd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	wa	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	wb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	wc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	wd	80/86 (93%)	78 (98%)	2 (2%)	0	100	100
2	xa	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	xb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	xc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	xd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	ya	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	yb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	yc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	yd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
2	za	81/86 (94%)	78 (96%)	3 (4%)	0	100	100
2	zb	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	zc	81/86 (94%)	79 (98%)	2 (2%)	0	100	100
2	zd	80/86 (93%)	77 (96%)	3 (4%)	0	100	100
All	All	34380/47760 (72%)	33370 (97%)	1010 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	0A	50/84 (60%)	50 (100%)	0	100	100
1	0B	50/84 (60%)	50 (100%)	0	100	100
1	0C	50/84 (60%)	50 (100%)	0	100	100
1	0D	52/84 (62%)	52 (100%)	0	100	100
1	1A	50/84 (60%)	50 (100%)	0	100	100
1	1B	50/84 (60%)	50 (100%)	0	100	100
1	1C	50/84 (60%)	50 (100%)	0	100	100
1	1D	52/84 (62%)	52 (100%)	0	100	100
1	2A	50/84 (60%)	50 (100%)	0	100	100
1	2B	50/84 (60%)	50 (100%)	0	100	100
1	2C	50/84 (60%)	50 (100%)	0	100	100
1	2D	52/84 (62%)	52 (100%)	0	100	100
1	3A	50/84 (60%)	50 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	3B	50/84 (60%)	50 (100%)	0	100	100
1	3C	50/84 (60%)	50 (100%)	0	100	100
1	3D	52/84 (62%)	52 (100%)	0	100	100
1	4A	50/84 (60%)	50 (100%)	0	100	100
1	4B	50/84 (60%)	50 (100%)	0	100	100
1	4C	50/84 (60%)	50 (100%)	0	100	100
1	4D	52/84 (62%)	52 (100%)	0	100	100
1	5A	50/84 (60%)	50 (100%)	0	100	100
1	5B	50/84 (60%)	50 (100%)	0	100	100
1	5C	50/84 (60%)	50 (100%)	0	100	100
1	5D	52/84 (62%)	52 (100%)	0	100	100
1	6A	50/84 (60%)	50 (100%)	0	100	100
1	6B	50/84 (60%)	50 (100%)	0	100	100
1	6C	50/84 (60%)	50 (100%)	0	100	100
1	6D	52/84 (62%)	52 (100%)	0	100	100
1	7A	50/84 (60%)	50 (100%)	0	100	100
1	7B	50/84 (60%)	50 (100%)	0	100	100
1	7C	50/84 (60%)	50 (100%)	0	100	100
1	7D	52/84 (62%)	52 (100%)	0	100	100
1	AA	50/84 (60%)	50 (100%)	0	100	100
1	AB	50/84 (60%)	50 (100%)	0	100	100
1	AC	50/84 (60%)	50 (100%)	0	100	100
1	AD	52/84 (62%)	52 (100%)	0	100	100
1	BA	50/84 (60%)	50 (100%)	0	100	100
1	BB	50/84 (60%)	50 (100%)	0	100	100
1	BC	50/84 (60%)	50 (100%)	0	100	100
1	BD	52/84 (62%)	52 (100%)	0	100	100
1	CA	50/84 (60%)	50 (100%)	0	100	100
1	CB	50/84 (60%)	50 (100%)	0	100	100
1	CC	50/84 (60%)	50 (100%)	0	100	100
1	CD	52/84 (62%)	52 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	DA	50/84 (60%)	50 (100%)	0	100	100
1	DB	50/84 (60%)	50 (100%)	0	100	100
1	DC	50/84 (60%)	50 (100%)	0	100	100
1	DD	52/84 (62%)	52 (100%)	0	100	100
1	EA	50/84 (60%)	50 (100%)	0	100	100
1	EB	50/84 (60%)	50 (100%)	0	100	100
1	EC	50/84 (60%)	50 (100%)	0	100	100
1	ED	52/84 (62%)	52 (100%)	0	100	100
1	FA	50/84 (60%)	50 (100%)	0	100	100
1	FB	50/84 (60%)	50 (100%)	0	100	100
1	FC	50/84 (60%)	50 (100%)	0	100	100
1	FD	52/84 (62%)	52 (100%)	0	100	100
1	GA	50/84 (60%)	50 (100%)	0	100	100
1	GB	50/84 (60%)	50 (100%)	0	100	100
1	GC	50/84 (60%)	50 (100%)	0	100	100
1	GD	52/84 (62%)	52 (100%)	0	100	100
1	HA	50/84 (60%)	50 (100%)	0	100	100
1	HB	50/84 (60%)	50 (100%)	0	100	100
1	HC	50/84 (60%)	50 (100%)	0	100	100
1	HD	52/84 (62%)	52 (100%)	0	100	100
1	IA	50/84 (60%)	50 (100%)	0	100	100
1	IB	50/84 (60%)	50 (100%)	0	100	100
1	IC	50/84 (60%)	50 (100%)	0	100	100
1	ID	52/84 (62%)	52 (100%)	0	100	100
1	JA	50/84 (60%)	50 (100%)	0	100	100
1	JB	50/84 (60%)	50 (100%)	0	100	100
1	JC	50/84 (60%)	50 (100%)	0	100	100
1	JD	52/84 (62%)	52 (100%)	0	100	100
1	KA	50/84 (60%)	50 (100%)	0	100	100
1	KB	50/84 (60%)	50 (100%)	0	100	100
1	KC	50/84 (60%)	50 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	KD	52/84 (62%)	52 (100%)	0	100	100
1	LA	50/84 (60%)	50 (100%)	0	100	100
1	LB	50/84 (60%)	50 (100%)	0	100	100
1	LC	50/84 (60%)	50 (100%)	0	100	100
1	LD	52/84 (62%)	52 (100%)	0	100	100
1	MA	50/84 (60%)	50 (100%)	0	100	100
1	MB	50/84 (60%)	50 (100%)	0	100	100
1	MC	50/84 (60%)	50 (100%)	0	100	100
1	MD	52/84 (62%)	52 (100%)	0	100	100
1	NA	50/84 (60%)	50 (100%)	0	100	100
1	NB	50/84 (60%)	50 (100%)	0	100	100
1	NC	50/84 (60%)	50 (100%)	0	100	100
1	ND	52/84 (62%)	52 (100%)	0	100	100
1	OA	50/84 (60%)	50 (100%)	0	100	100
1	OB	50/84 (60%)	50 (100%)	0	100	100
1	OC	50/84 (60%)	50 (100%)	0	100	100
1	OD	52/84 (62%)	52 (100%)	0	100	100
1	PA	50/84 (60%)	50 (100%)	0	100	100
1	PB	50/84 (60%)	50 (100%)	0	100	100
1	PC	50/84 (60%)	50 (100%)	0	100	100
1	PD	52/84 (62%)	52 (100%)	0	100	100
1	QA	50/84 (60%)	50 (100%)	0	100	100
1	QB	50/84 (60%)	50 (100%)	0	100	100
1	QC	50/84 (60%)	50 (100%)	0	100	100
1	QD	52/84 (62%)	52 (100%)	0	100	100
1	RA	50/84 (60%)	50 (100%)	0	100	100
1	RB	50/84 (60%)	50 (100%)	0	100	100
1	RC	50/84 (60%)	50 (100%)	0	100	100
1	RD	52/84 (62%)	52 (100%)	0	100	100
1	SA	50/84 (60%)	50 (100%)	0	100	100
1	SB	50/84 (60%)	50 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	SC	50/84 (60%)	50 (100%)	0	100	100
1	SD	52/84 (62%)	52 (100%)	0	100	100
1	TA	50/84 (60%)	50 (100%)	0	100	100
1	TB	50/84 (60%)	50 (100%)	0	100	100
1	TC	50/84 (60%)	50 (100%)	0	100	100
1	TD	52/84 (62%)	52 (100%)	0	100	100
1	UA	50/84 (60%)	50 (100%)	0	100	100
1	UB	50/84 (60%)	50 (100%)	0	100	100
1	UC	50/84 (60%)	50 (100%)	0	100	100
1	UD	52/84 (62%)	52 (100%)	0	100	100
1	VA	50/84 (60%)	50 (100%)	0	100	100
1	VB	50/84 (60%)	50 (100%)	0	100	100
1	VC	50/84 (60%)	50 (100%)	0	100	100
1	VD	52/84 (62%)	52 (100%)	0	100	100
1	WA	50/84 (60%)	50 (100%)	0	100	100
1	WB	50/84 (60%)	50 (100%)	0	100	100
1	WC	50/84 (60%)	50 (100%)	0	100	100
1	WD	52/84 (62%)	52 (100%)	0	100	100
1	XA	50/84 (60%)	50 (100%)	0	100	100
1	XB	50/84 (60%)	50 (100%)	0	100	100
1	XC	50/84 (60%)	50 (100%)	0	100	100
1	XD	52/84 (62%)	52 (100%)	0	100	100
1	YA	50/84 (60%)	50 (100%)	0	100	100
1	YB	50/84 (60%)	50 (100%)	0	100	100
1	YC	50/84 (60%)	50 (100%)	0	100	100
1	YD	52/84 (62%)	52 (100%)	0	100	100
1	ZA	50/84 (60%)	50 (100%)	0	100	100
1	ZB	50/84 (60%)	50 (100%)	0	100	100
1	ZC	50/84 (60%)	50 (100%)	0	100	100
1	ZD	52/84 (62%)	52 (100%)	0	100	100
1	aA	50/84 (60%)	50 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	aB	50/84 (60%)	50 (100%)	0	100	100
1	aC	50/84 (60%)	50 (100%)	0	100	100
1	aD	52/84 (62%)	52 (100%)	0	100	100
1	bA	50/84 (60%)	50 (100%)	0	100	100
1	bB	50/84 (60%)	50 (100%)	0	100	100
1	bC	50/84 (60%)	50 (100%)	0	100	100
1	bD	52/84 (62%)	52 (100%)	0	100	100
1	cA	50/84 (60%)	50 (100%)	0	100	100
1	cB	50/84 (60%)	50 (100%)	0	100	100
1	cC	50/84 (60%)	50 (100%)	0	100	100
1	cD	52/84 (62%)	52 (100%)	0	100	100
1	dA	50/84 (60%)	50 (100%)	0	100	100
1	dB	50/84 (60%)	50 (100%)	0	100	100
1	dC	50/84 (60%)	50 (100%)	0	100	100
1	dD	52/84 (62%)	52 (100%)	0	100	100
1	eA	50/84 (60%)	50 (100%)	0	100	100
1	eB	50/84 (60%)	50 (100%)	0	100	100
1	eC	50/84 (60%)	50 (100%)	0	100	100
1	eD	52/84 (62%)	52 (100%)	0	100	100
1	fA	50/84 (60%)	50 (100%)	0	100	100
1	fB	50/84 (60%)	50 (100%)	0	100	100
1	fC	50/84 (60%)	50 (100%)	0	100	100
1	fD	52/84 (62%)	52 (100%)	0	100	100
1	gA	50/84 (60%)	50 (100%)	0	100	100
1	gB	50/84 (60%)	50 (100%)	0	100	100
1	gC	50/84 (60%)	50 (100%)	0	100	100
1	gD	52/84 (62%)	52 (100%)	0	100	100
1	hA	50/84 (60%)	50 (100%)	0	100	100
1	hB	50/84 (60%)	50 (100%)	0	100	100
1	hC	50/84 (60%)	50 (100%)	0	100	100
1	hD	52/84 (62%)	52 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	iA	50/84 (60%)	50 (100%)	0	100	100
1	iB	50/84 (60%)	50 (100%)	0	100	100
1	iC	50/84 (60%)	50 (100%)	0	100	100
1	iD	52/84 (62%)	52 (100%)	0	100	100
1	jA	50/84 (60%)	50 (100%)	0	100	100
1	jB	50/84 (60%)	50 (100%)	0	100	100
1	jC	50/84 (60%)	50 (100%)	0	100	100
1	jD	52/84 (62%)	52 (100%)	0	100	100
1	kA	50/84 (60%)	50 (100%)	0	100	100
1	kB	50/84 (60%)	50 (100%)	0	100	100
1	kC	50/84 (60%)	50 (100%)	0	100	100
1	kD	52/84 (62%)	52 (100%)	0	100	100
1	lA	50/84 (60%)	50 (100%)	0	100	100
1	lB	50/84 (60%)	50 (100%)	0	100	100
1	lC	50/84 (60%)	50 (100%)	0	100	100
1	lD	52/84 (62%)	52 (100%)	0	100	100
1	mA	50/84 (60%)	50 (100%)	0	100	100
1	mB	50/84 (60%)	50 (100%)	0	100	100
1	mC	50/84 (60%)	50 (100%)	0	100	100
1	mD	52/84 (62%)	52 (100%)	0	100	100
1	nA	50/84 (60%)	50 (100%)	0	100	100
1	nB	50/84 (60%)	50 (100%)	0	100	100
1	nC	50/84 (60%)	50 (100%)	0	100	100
1	nD	52/84 (62%)	52 (100%)	0	100	100
1	oA	50/84 (60%)	50 (100%)	0	100	100
1	oB	50/84 (60%)	50 (100%)	0	100	100
1	oC	50/84 (60%)	50 (100%)	0	100	100
1	oD	52/84 (62%)	52 (100%)	0	100	100
1	pA	50/84 (60%)	50 (100%)	0	100	100
1	pB	50/84 (60%)	50 (100%)	0	100	100
1	pC	50/84 (60%)	50 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	pD	52/84 (62%)	52 (100%)	0	100	100
1	qA	50/84 (60%)	50 (100%)	0	100	100
1	qB	50/84 (60%)	50 (100%)	0	100	100
1	qC	50/84 (60%)	50 (100%)	0	100	100
1	qD	52/84 (62%)	52 (100%)	0	100	100
1	rA	50/84 (60%)	50 (100%)	0	100	100
1	rB	50/84 (60%)	50 (100%)	0	100	100
1	rC	50/84 (60%)	50 (100%)	0	100	100
1	rD	52/84 (62%)	52 (100%)	0	100	100
1	sA	50/84 (60%)	50 (100%)	0	100	100
1	sB	50/84 (60%)	50 (100%)	0	100	100
1	sC	50/84 (60%)	50 (100%)	0	100	100
1	sD	52/84 (62%)	52 (100%)	0	100	100
1	tA	50/84 (60%)	50 (100%)	0	100	100
1	tB	50/84 (60%)	50 (100%)	0	100	100
1	tC	50/84 (60%)	50 (100%)	0	100	100
1	tD	52/84 (62%)	52 (100%)	0	100	100
1	uA	50/84 (60%)	50 (100%)	0	100	100
1	uB	50/84 (60%)	50 (100%)	0	100	100
1	uC	50/84 (60%)	50 (100%)	0	100	100
1	uD	52/84 (62%)	52 (100%)	0	100	100
1	vA	50/84 (60%)	50 (100%)	0	100	100
1	vB	50/84 (60%)	50 (100%)	0	100	100
1	vC	50/84 (60%)	50 (100%)	0	100	100
1	vD	52/84 (62%)	52 (100%)	0	100	100
1	wA	50/84 (60%)	50 (100%)	0	100	100
1	wB	50/84 (60%)	50 (100%)	0	100	100
1	wC	50/84 (60%)	50 (100%)	0	100	100
1	wD	52/84 (62%)	52 (100%)	0	100	100
1	xA	50/84 (60%)	50 (100%)	0	100	100
1	xB	50/84 (60%)	50 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	xC	50/84 (60%)	50 (100%)	0	100	100
1	xD	52/84 (62%)	52 (100%)	0	100	100
1	yA	50/84 (60%)	50 (100%)	0	100	100
1	yB	50/84 (60%)	50 (100%)	0	100	100
1	yC	50/84 (60%)	50 (100%)	0	100	100
1	yD	52/84 (62%)	52 (100%)	0	100	100
1	zA	50/84 (60%)	50 (100%)	0	100	100
1	zB	50/84 (60%)	50 (100%)	0	100	100
1	zC	50/84 (60%)	50 (100%)	0	100	100
1	zD	52/84 (62%)	52 (100%)	0	100	100
2	0a	64/66 (97%)	64 (100%)	0	100	100
2	0b	64/66 (97%)	64 (100%)	0	100	100
2	0c	64/66 (97%)	64 (100%)	0	100	100
2	0d	63/66 (96%)	63 (100%)	0	100	100
2	1a	64/66 (97%)	64 (100%)	0	100	100
2	1b	64/66 (97%)	64 (100%)	0	100	100
2	1c	64/66 (97%)	64 (100%)	0	100	100
2	1d	63/66 (96%)	63 (100%)	0	100	100
2	2a	64/66 (97%)	64 (100%)	0	100	100
2	2b	64/66 (97%)	64 (100%)	0	100	100
2	2c	64/66 (97%)	64 (100%)	0	100	100
2	2d	63/66 (96%)	63 (100%)	0	100	100
2	3a	64/66 (97%)	64 (100%)	0	100	100
2	3b	64/66 (97%)	64 (100%)	0	100	100
2	3c	64/66 (97%)	64 (100%)	0	100	100
2	3d	63/66 (96%)	63 (100%)	0	100	100
2	4a	64/66 (97%)	64 (100%)	0	100	100
2	4b	64/66 (97%)	64 (100%)	0	100	100
2	4c	64/66 (97%)	64 (100%)	0	100	100
2	4d	63/66 (96%)	63 (100%)	0	100	100
2	5a	64/66 (97%)	64 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	5b	64/66 (97%)	64 (100%)	0	100	100
2	5c	64/66 (97%)	64 (100%)	0	100	100
2	5d	63/66 (96%)	63 (100%)	0	100	100
2	6a	64/66 (97%)	64 (100%)	0	100	100
2	6b	64/66 (97%)	64 (100%)	0	100	100
2	6c	64/66 (97%)	64 (100%)	0	100	100
2	6d	63/66 (96%)	63 (100%)	0	100	100
2	7a	64/66 (97%)	64 (100%)	0	100	100
2	7b	64/66 (97%)	64 (100%)	0	100	100
2	7c	64/66 (97%)	64 (100%)	0	100	100
2	7d	63/66 (96%)	63 (100%)	0	100	100
2	Aa	64/66 (97%)	64 (100%)	0	100	100
2	Ab	64/66 (97%)	64 (100%)	0	100	100
2	Ac	64/66 (97%)	64 (100%)	0	100	100
2	Ad	63/66 (96%)	63 (100%)	0	100	100
2	Ba	64/66 (97%)	64 (100%)	0	100	100
2	Bb	64/66 (97%)	64 (100%)	0	100	100
2	Bc	64/66 (97%)	64 (100%)	0	100	100
2	Bd	63/66 (96%)	63 (100%)	0	100	100
2	Ca	64/66 (97%)	64 (100%)	0	100	100
2	Cb	64/66 (97%)	64 (100%)	0	100	100
2	Cc	64/66 (97%)	64 (100%)	0	100	100
2	Cd	63/66 (96%)	63 (100%)	0	100	100
2	Da	64/66 (97%)	64 (100%)	0	100	100
2	Db	64/66 (97%)	64 (100%)	0	100	100
2	Dc	64/66 (97%)	64 (100%)	0	100	100
2	Dd	63/66 (96%)	63 (100%)	0	100	100
2	Ea	64/66 (97%)	64 (100%)	0	100	100
2	Eb	64/66 (97%)	64 (100%)	0	100	100
2	Ec	64/66 (97%)	64 (100%)	0	100	100
2	Ed	63/66 (96%)	63 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	Fa	64/66 (97%)	64 (100%)	0	100	100
2	Fb	64/66 (97%)	64 (100%)	0	100	100
2	Fc	64/66 (97%)	64 (100%)	0	100	100
2	Fd	63/66 (96%)	63 (100%)	0	100	100
2	Ga	64/66 (97%)	64 (100%)	0	100	100
2	Gb	64/66 (97%)	64 (100%)	0	100	100
2	Gc	64/66 (97%)	64 (100%)	0	100	100
2	Gd	63/66 (96%)	63 (100%)	0	100	100
2	Ha	64/66 (97%)	64 (100%)	0	100	100
2	Hb	64/66 (97%)	64 (100%)	0	100	100
2	Hc	64/66 (97%)	64 (100%)	0	100	100
2	Hd	63/66 (96%)	63 (100%)	0	100	100
2	Ia	64/66 (97%)	64 (100%)	0	100	100
2	Ib	64/66 (97%)	64 (100%)	0	100	100
2	Ic	64/66 (97%)	64 (100%)	0	100	100
2	Id	63/66 (96%)	63 (100%)	0	100	100
2	Ja	64/66 (97%)	64 (100%)	0	100	100
2	Jb	64/66 (97%)	64 (100%)	0	100	100
2	Jc	64/66 (97%)	64 (100%)	0	100	100
2	Jd	63/66 (96%)	63 (100%)	0	100	100
2	Ka	64/66 (97%)	64 (100%)	0	100	100
2	Kb	64/66 (97%)	64 (100%)	0	100	100
2	Kc	64/66 (97%)	64 (100%)	0	100	100
2	Kd	63/66 (96%)	63 (100%)	0	100	100
2	La	64/66 (97%)	64 (100%)	0	100	100
2	Lb	64/66 (97%)	64 (100%)	0	100	100
2	Lc	64/66 (97%)	64 (100%)	0	100	100
2	Ld	63/66 (96%)	63 (100%)	0	100	100
2	Ma	64/66 (97%)	64 (100%)	0	100	100
2	Mb	64/66 (97%)	64 (100%)	0	100	100
2	Mc	64/66 (97%)	64 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	Md	63/66 (96%)	63 (100%)	0	100	100
2	Na	64/66 (97%)	64 (100%)	0	100	100
2	Nb	64/66 (97%)	64 (100%)	0	100	100
2	Nc	64/66 (97%)	64 (100%)	0	100	100
2	Nd	63/66 (96%)	63 (100%)	0	100	100
2	Oa	64/66 (97%)	64 (100%)	0	100	100
2	Ob	64/66 (97%)	64 (100%)	0	100	100
2	Oc	64/66 (97%)	64 (100%)	0	100	100
2	Od	63/66 (96%)	63 (100%)	0	100	100
2	Pa	64/66 (97%)	64 (100%)	0	100	100
2	Pb	64/66 (97%)	64 (100%)	0	100	100
2	Pc	64/66 (97%)	64 (100%)	0	100	100
2	Pd	63/66 (96%)	63 (100%)	0	100	100
2	Qa	64/66 (97%)	64 (100%)	0	100	100
2	Qb	64/66 (97%)	64 (100%)	0	100	100
2	Qc	64/66 (97%)	64 (100%)	0	100	100
2	Qd	63/66 (96%)	63 (100%)	0	100	100
2	Ra	64/66 (97%)	64 (100%)	0	100	100
2	Rb	64/66 (97%)	64 (100%)	0	100	100
2	Rc	64/66 (97%)	64 (100%)	0	100	100
2	Rd	63/66 (96%)	63 (100%)	0	100	100
2	Sa	64/66 (97%)	64 (100%)	0	100	100
2	Sb	64/66 (97%)	64 (100%)	0	100	100
2	Sc	64/66 (97%)	64 (100%)	0	100	100
2	Sd	63/66 (96%)	63 (100%)	0	100	100
2	Ta	64/66 (97%)	64 (100%)	0	100	100
2	Tb	64/66 (97%)	64 (100%)	0	100	100
2	Tc	64/66 (97%)	64 (100%)	0	100	100
2	Td	63/66 (96%)	63 (100%)	0	100	100
2	Ua	64/66 (97%)	64 (100%)	0	100	100
2	Ub	64/66 (97%)	64 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	Uc	64/66 (97%)	64 (100%)	0	100	100
2	Ud	63/66 (96%)	63 (100%)	0	100	100
2	Va	64/66 (97%)	64 (100%)	0	100	100
2	Vb	64/66 (97%)	64 (100%)	0	100	100
2	Vc	64/66 (97%)	64 (100%)	0	100	100
2	Vd	63/66 (96%)	63 (100%)	0	100	100
2	Wa	64/66 (97%)	64 (100%)	0	100	100
2	Wb	64/66 (97%)	64 (100%)	0	100	100
2	Wc	64/66 (97%)	64 (100%)	0	100	100
2	Wd	63/66 (96%)	63 (100%)	0	100	100
2	Xa	64/66 (97%)	64 (100%)	0	100	100
2	Xb	64/66 (97%)	64 (100%)	0	100	100
2	Xc	64/66 (97%)	64 (100%)	0	100	100
2	Xd	63/66 (96%)	63 (100%)	0	100	100
2	Ya	64/66 (97%)	64 (100%)	0	100	100
2	Yb	64/66 (97%)	64 (100%)	0	100	100
2	Yc	64/66 (97%)	64 (100%)	0	100	100
2	Yd	63/66 (96%)	63 (100%)	0	100	100
2	Za	64/66 (97%)	64 (100%)	0	100	100
2	Zb	64/66 (97%)	64 (100%)	0	100	100
2	Zc	64/66 (97%)	64 (100%)	0	100	100
2	Zd	63/66 (96%)	63 (100%)	0	100	100
2	aa	64/66 (97%)	64 (100%)	0	100	100
2	ab	64/66 (97%)	64 (100%)	0	100	100
2	ac	64/66 (97%)	64 (100%)	0	100	100
2	ad	63/66 (96%)	63 (100%)	0	100	100
2	ba	64/66 (97%)	64 (100%)	0	100	100
2	bb	64/66 (97%)	64 (100%)	0	100	100
2	bc	64/66 (97%)	64 (100%)	0	100	100
2	bd	63/66 (96%)	63 (100%)	0	100	100
2	ca	64/66 (97%)	64 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	cb	64/66 (97%)	64 (100%)	0	100	100
2	cc	64/66 (97%)	64 (100%)	0	100	100
2	cd	63/66 (96%)	63 (100%)	0	100	100
2	da	64/66 (97%)	64 (100%)	0	100	100
2	db	64/66 (97%)	64 (100%)	0	100	100
2	dc	64/66 (97%)	64 (100%)	0	100	100
2	dd	63/66 (96%)	63 (100%)	0	100	100
2	ea	64/66 (97%)	64 (100%)	0	100	100
2	eb	64/66 (97%)	64 (100%)	0	100	100
2	ec	64/66 (97%)	64 (100%)	0	100	100
2	ed	63/66 (96%)	63 (100%)	0	100	100
2	fa	64/66 (97%)	64 (100%)	0	100	100
2	fb	64/66 (97%)	64 (100%)	0	100	100
2	fc	64/66 (97%)	64 (100%)	0	100	100
2	fd	63/66 (96%)	63 (100%)	0	100	100
2	ga	64/66 (97%)	64 (100%)	0	100	100
2	gb	64/66 (97%)	64 (100%)	0	100	100
2	gc	64/66 (97%)	64 (100%)	0	100	100
2	gd	63/66 (96%)	63 (100%)	0	100	100
2	ha	64/66 (97%)	64 (100%)	0	100	100
2	hb	64/66 (97%)	64 (100%)	0	100	100
2	hc	64/66 (97%)	64 (100%)	0	100	100
2	hd	63/66 (96%)	63 (100%)	0	100	100
2	ia	64/66 (97%)	64 (100%)	0	100	100
2	ib	64/66 (97%)	64 (100%)	0	100	100
2	ic	64/66 (97%)	64 (100%)	0	100	100
2	id	63/66 (96%)	63 (100%)	0	100	100
2	ja	64/66 (97%)	64 (100%)	0	100	100
2	jb	64/66 (97%)	64 (100%)	0	100	100
2	jc	64/66 (97%)	64 (100%)	0	100	100
2	jd	63/66 (96%)	63 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	ka	64/66 (97%)	64 (100%)	0	100	100
2	kb	64/66 (97%)	64 (100%)	0	100	100
2	kc	64/66 (97%)	64 (100%)	0	100	100
2	kd	63/66 (96%)	63 (100%)	0	100	100
2	la	64/66 (97%)	64 (100%)	0	100	100
2	lb	64/66 (97%)	64 (100%)	0	100	100
2	lc	64/66 (97%)	64 (100%)	0	100	100
2	ld	63/66 (96%)	63 (100%)	0	100	100
2	ma	64/66 (97%)	64 (100%)	0	100	100
2	mb	64/66 (97%)	64 (100%)	0	100	100
2	mc	64/66 (97%)	64 (100%)	0	100	100
2	md	63/66 (96%)	63 (100%)	0	100	100
2	na	64/66 (97%)	64 (100%)	0	100	100
2	nb	64/66 (97%)	64 (100%)	0	100	100
2	nc	64/66 (97%)	64 (100%)	0	100	100
2	nd	63/66 (96%)	63 (100%)	0	100	100
2	oa	64/66 (97%)	64 (100%)	0	100	100
2	ob	64/66 (97%)	64 (100%)	0	100	100
2	oc	64/66 (97%)	64 (100%)	0	100	100
2	od	63/66 (96%)	63 (100%)	0	100	100
2	pa	64/66 (97%)	64 (100%)	0	100	100
2	pb	64/66 (97%)	64 (100%)	0	100	100
2	pc	64/66 (97%)	64 (100%)	0	100	100
2	pd	63/66 (96%)	63 (100%)	0	100	100
2	qa	64/66 (97%)	64 (100%)	0	100	100
2	qb	64/66 (97%)	64 (100%)	0	100	100
2	qc	64/66 (97%)	64 (100%)	0	100	100
2	qd	63/66 (96%)	63 (100%)	0	100	100
2	ra	64/66 (97%)	64 (100%)	0	100	100
2	rb	64/66 (97%)	64 (100%)	0	100	100
2	rc	64/66 (97%)	64 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	rd	63/66 (96%)	63 (100%)	0	100	100
2	sa	64/66 (97%)	64 (100%)	0	100	100
2	sb	64/66 (97%)	64 (100%)	0	100	100
2	sc	64/66 (97%)	64 (100%)	0	100	100
2	sd	63/66 (96%)	63 (100%)	0	100	100
2	ta	64/66 (97%)	64 (100%)	0	100	100
2	tb	64/66 (97%)	64 (100%)	0	100	100
2	tc	64/66 (97%)	64 (100%)	0	100	100
2	td	63/66 (96%)	63 (100%)	0	100	100
2	ua	64/66 (97%)	64 (100%)	0	100	100
2	ub	64/66 (97%)	64 (100%)	0	100	100
2	uc	64/66 (97%)	64 (100%)	0	100	100
2	ud	63/66 (96%)	63 (100%)	0	100	100
2	va	64/66 (97%)	64 (100%)	0	100	100
2	vb	64/66 (97%)	64 (100%)	0	100	100
2	vc	64/66 (97%)	64 (100%)	0	100	100
2	vd	63/66 (96%)	63 (100%)	0	100	100
2	wa	64/66 (97%)	64 (100%)	0	100	100
2	wb	64/66 (97%)	64 (100%)	0	100	100
2	wc	64/66 (97%)	64 (100%)	0	100	100
2	wd	63/66 (96%)	63 (100%)	0	100	100
2	xa	64/66 (97%)	64 (100%)	0	100	100
2	xb	64/66 (97%)	64 (100%)	0	100	100
2	xc	64/66 (97%)	64 (100%)	0	100	100
2	xd	63/66 (96%)	63 (100%)	0	100	100
2	ya	64/66 (97%)	64 (100%)	0	100	100
2	yb	64/66 (97%)	64 (100%)	0	100	100
2	yc	64/66 (97%)	64 (100%)	0	100	100
2	yd	63/66 (96%)	63 (100%)	0	100	100
2	za	64/66 (97%)	64 (100%)	0	100	100
2	zb	64/66 (97%)	64 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	zc	64/66 (97%)	64 (100%)	0	100	100
2	zd	63/66 (96%)	63 (100%)	0	100	100
All	All	27420/36000 (76%)	27420 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (299) such sidechains are listed below:

Mol	Chain	Res	Type
1	0A	81	ASN
1	0B	81	ASN
1	0C	95	ASN
1	0D	81	ASN
1	0D	95	ASN
2	0b	136	ASN
1	1C	95	ASN
1	1D	81	ASN
1	1D	95	ASN
2	1b	136	ASN
1	2B	81	ASN
1	2C	95	ASN
1	2D	81	ASN
2	2b	136	ASN
1	3A	81	ASN
1	3C	95	ASN
1	3D	81	ASN
1	3D	95	ASN
2	3b	136	ASN
1	4A	81	ASN
1	4C	95	ASN
1	4D	81	ASN
1	4D	95	ASN
2	4a	136	ASN
2	4b	136	ASN
1	5A	81	ASN
1	5B	81	ASN
1	5C	95	ASN
1	5D	81	ASN
2	5b	136	ASN
1	6A	81	ASN
1	6B	81	ASN

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Mol	Chain	Res	Type
1	6C	95	ASN
1	6D	81	ASN
2	6b	136	ASN
1	7A	81	ASN
1	7B	81	ASN
1	7C	95	ASN
1	7D	81	ASN
2	7b	136	ASN
1	AA	81	ASN
1	AC	95	ASN
1	AD	81	ASN
1	AD	95	ASN
2	Ab	136	ASN
1	BC	95	ASN
1	BD	81	ASN
2	Ba	136	ASN
2	Bb	136	ASN
1	CC	95	ASN
1	CD	81	ASN
1	CD	95	ASN
2	Cb	136	ASN
1	DA	81	ASN
1	DC	95	ASN
1	DD	81	ASN
2	Db	136	ASN
1	EB	81	ASN
1	EC	95	ASN
1	ED	81	ASN
1	ED	95	ASN
2	Eb	136	ASN
1	FA	81	ASN
1	FB	81	ASN
1	FC	95	ASN
1	FD	81	ASN
1	FD	95	ASN
2	Fa	136	ASN
2	Fb	136	ASN
1	GA	81	ASN
1	GC	95	ASN
1	GD	81	ASN
1	GD	95	ASN
2	Gb	136	ASN

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Mol	Chain	Res	Type
1	HA	81	ASN
1	HC	95	ASN
1	HD	81	ASN
2	Hb	136	ASN
1	IB	81	ASN
1	IC	95	ASN
1	ID	81	ASN
1	ID	95	ASN
2	Ib	136	ASN
1	JA	81	ASN
1	JC	95	ASN
1	JD	81	ASN
2	Jb	136	ASN
2	Jc	136	ASN
1	KC	95	ASN
1	KD	81	ASN
1	KD	95	ASN
2	Kb	136	ASN
1	LA	81	ASN
1	LB	81	ASN
1	LC	95	ASN
1	LD	81	ASN
1	LD	95	ASN
2	Lb	136	ASN
1	MA	81	ASN
1	MB	81	ASN
1	MC	95	ASN
1	MD	81	ASN
1	MD	95	ASN
2	Mb	136	ASN
1	NC	95	ASN
1	ND	81	ASN
1	ND	95	ASN
2	Nb	136	ASN
1	OB	81	ASN
1	OC	95	ASN
1	OD	81	ASN
2	Ob	136	ASN
1	PB	81	ASN
1	PC	95	ASN
1	PD	81	ASN
2	Pb	136	ASN

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Mol	Chain	Res	Type
1	QA	81	ASN
1	QB	81	ASN
1	QC	95	ASN
1	QD	81	ASN
2	Qb	136	ASN
1	RA	81	ASN
1	RB	81	ASN
1	RC	95	ASN
1	RD	81	ASN
2	Rb	136	ASN
1	SA	81	ASN
1	SB	81	ASN
1	SC	95	ASN
1	SD	81	ASN
1	SD	95	ASN
2	Sb	136	ASN
1	TA	81	ASN
1	TB	81	ASN
1	TC	70	GLN
1	TC	95	ASN
1	TD	81	ASN
1	TD	95	ASN
2	Tb	136	ASN
1	UB	81	ASN
1	UC	95	ASN
1	UD	81	ASN
2	Ub	136	ASN
1	VA	81	ASN
1	VC	95	ASN
1	VD	81	ASN
2	Vb	136	ASN
1	WA	81	ASN
1	WB	81	ASN
1	WC	95	ASN
1	WD	81	ASN
1	WD	95	ASN
2	Wb	136	ASN
1	XA	81	ASN
1	XB	81	ASN
1	XC	95	ASN
1	XD	81	ASN
1	XD	95	ASN

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Mol	Chain	Res	Type
2	Xb	136	ASN
1	YA	81	ASN
1	YC	95	ASN
1	YD	81	ASN
2	Yb	136	ASN
1	ZB	81	ASN
1	ZC	95	ASN
1	ZD	81	ASN
1	ZD	95	ASN
2	Zb	136	ASN
1	aA	81	ASN
1	aC	95	ASN
1	aD	81	ASN
2	ab	136	ASN
1	bB	81	ASN
1	bC	95	ASN
1	bD	81	ASN
2	bb	136	ASN
1	cA	81	ASN
1	cC	70	GLN
1	cC	95	ASN
1	cD	81	ASN
2	cb	136	ASN
1	dA	81	ASN
1	dB	81	ASN
1	dC	95	ASN
1	dD	81	ASN
1	dD	95	ASN
2	db	136	ASN
1	eA	81	ASN
1	eB	81	ASN
1	eC	95	ASN
1	eD	81	ASN
1	eD	95	ASN
2	eb	136	ASN
2	ec	136	ASN
1	fA	81	ASN
1	fB	81	ASN
1	fC	95	ASN
1	fD	81	ASN
2	fb	136	ASN
1	gA	81	ASN

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Mol	Chain	Res	Type
1	gB	81	ASN
1	gC	95	ASN
1	gD	81	ASN
2	gb	136	ASN
1	hA	81	ASN
1	hB	81	ASN
1	hC	95	ASN
1	hD	81	ASN
2	hb	136	ASN
1	iA	81	ASN
1	iB	81	ASN
1	iC	95	ASN
1	iD	81	ASN
1	iD	95	ASN
2	ib	136	ASN
1	jA	81	ASN
1	jB	81	ASN
1	jC	95	ASN
1	jD	81	ASN
2	jb	136	ASN
1	kB	81	ASN
1	kC	95	ASN
1	kD	81	ASN
2	kb	136	ASN
1	lC	95	ASN
1	lD	81	ASN
1	lD	95	ASN
2	lb	136	ASN
1	mB	81	ASN
1	mC	95	ASN
1	mD	81	ASN
2	mb	136	ASN
1	nA	81	ASN
1	nB	81	ASN
1	nC	95	ASN
1	nD	81	ASN
2	nb	136	ASN
1	oA	81	ASN
1	oC	95	ASN
1	oD	81	ASN
2	oa	136	ASN
2	ob	136	ASN

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Mol	Chain	Res	Type
1	pA	81	ASN
1	pB	81	ASN
1	pC	95	ASN
1	pD	81	ASN
1	pD	95	ASN
2	pb	136	ASN
2	pc	136	ASN
1	qB	81	ASN
1	qC	95	ASN
1	qD	81	ASN
2	qb	136	ASN
1	rB	81	ASN
1	rC	95	ASN
1	rD	81	ASN
1	rD	95	ASN
2	ra	136	ASN
2	rb	136	ASN
2	rc	136	ASN
1	sA	81	ASN
1	sB	81	ASN
1	sC	95	ASN
1	sD	81	ASN
2	sb	136	ASN
1	tB	81	ASN
1	tC	95	ASN
1	tD	81	ASN
2	tb	136	ASN
1	uC	95	ASN
1	uD	81	ASN
1	uD	95	ASN
2	ub	136	ASN
1	vA	81	ASN
1	vC	95	ASN
1	vD	81	ASN
1	vD	95	ASN
2	vb	136	ASN
1	wA	81	ASN
1	wB	81	ASN
1	wC	95	ASN
1	wD	81	ASN
1	wD	95	ASN
2	wb	136	ASN

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Mol	Chain	Res	Type
1	xA	81	ASN
1	xB	81	ASN
1	xC	95	ASN
1	xD	81	ASN
2	xb	136	ASN
1	yC	95	ASN
1	yD	81	ASN
1	yD	95	ASN
2	yb	136	ASN
1	zA	81	ASN
1	zB	81	ASN
1	zC	95	ASN
1	zD	81	ASN
1	zD	95	ASN
2	zb	136	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

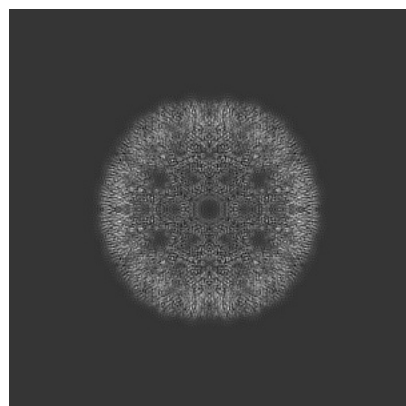
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-56772. These allow visual inspection of the internal detail of the map and identification of artifacts.

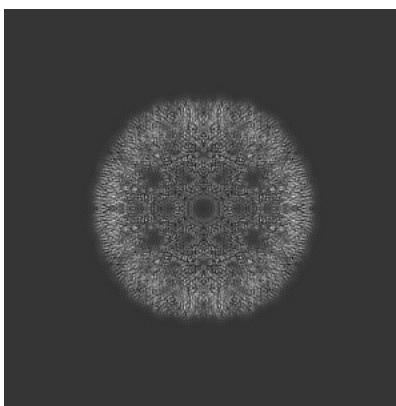
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

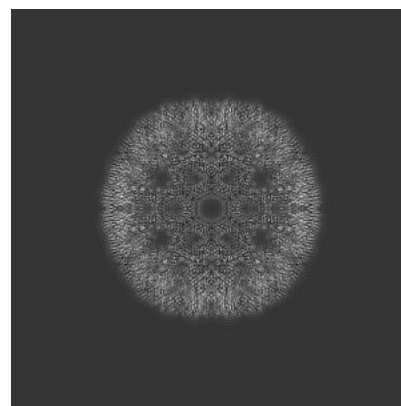
6.1.1 Primary map



X

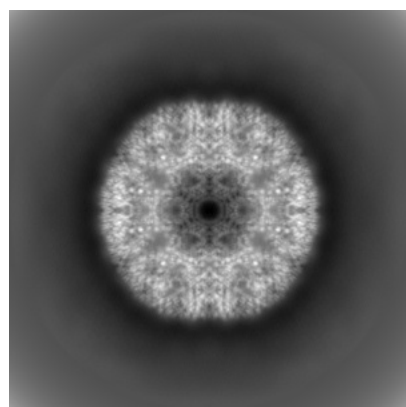


Y

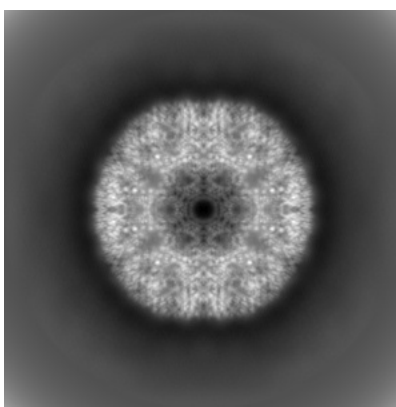


Z

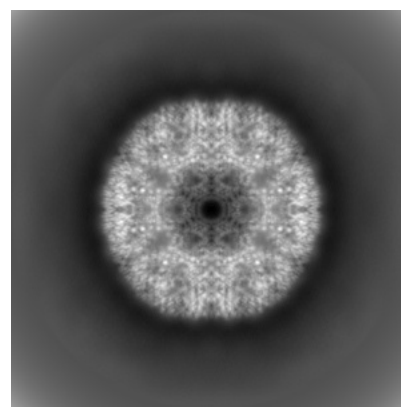
6.1.2 Raw map



X



Y

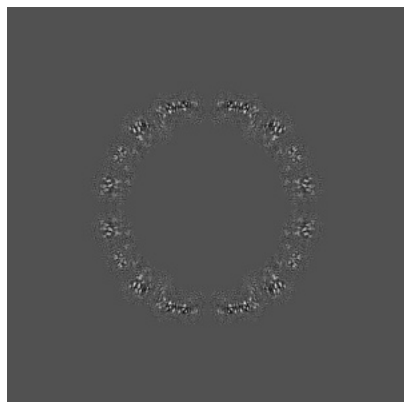


Z

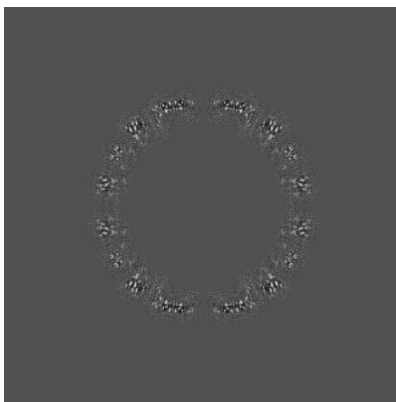
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

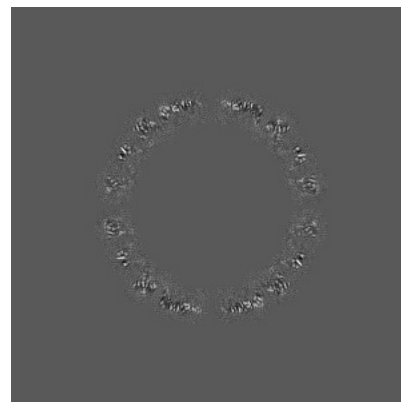
6.2.1 Primary map



X Index: 250

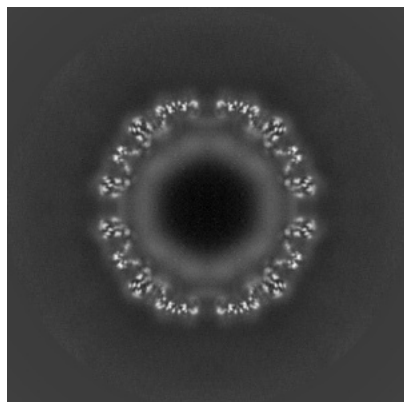


Y Index: 250

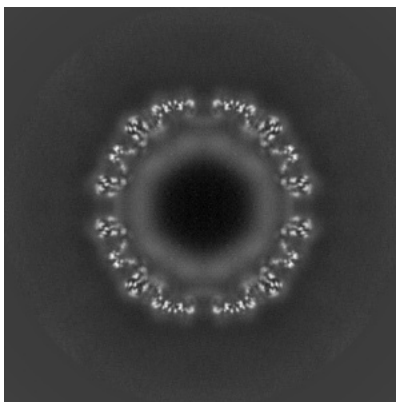


Z Index: 250

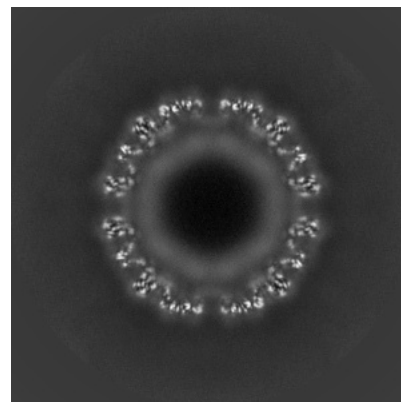
6.2.2 Raw map



X Index: 250



Y Index: 250

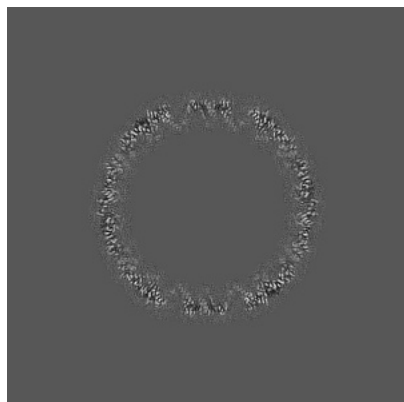


Z Index: 250

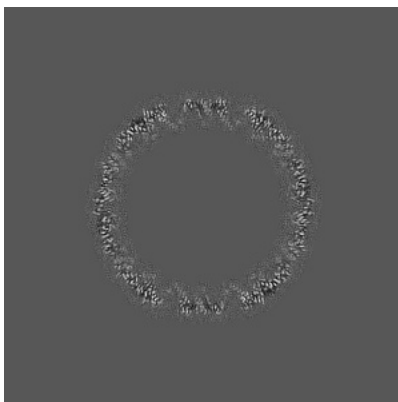
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

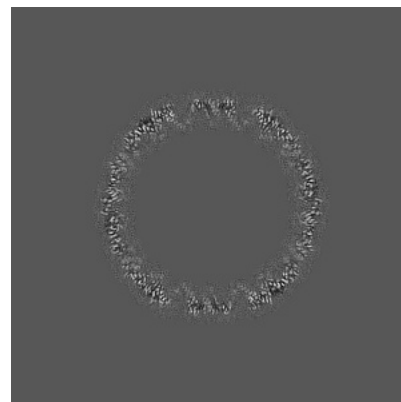
6.3.1 Primary map



X Index: 227

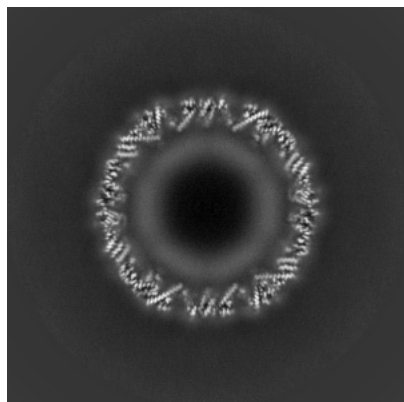


Y Index: 227

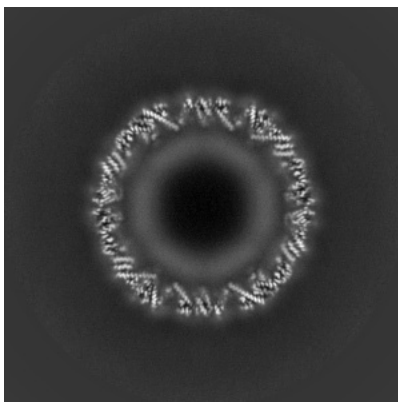


Z Index: 226

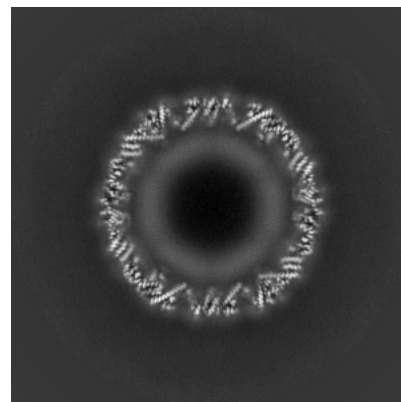
6.3.2 Raw map



X Index: 273



Y Index: 227

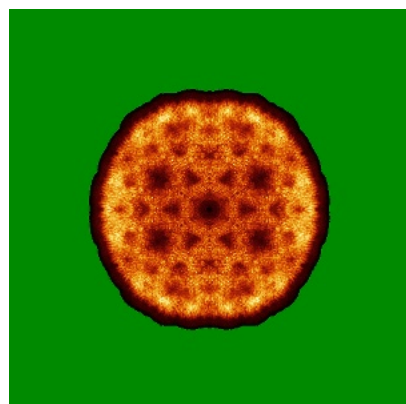


Z Index: 272

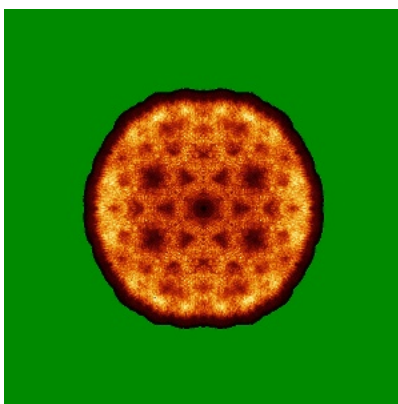
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

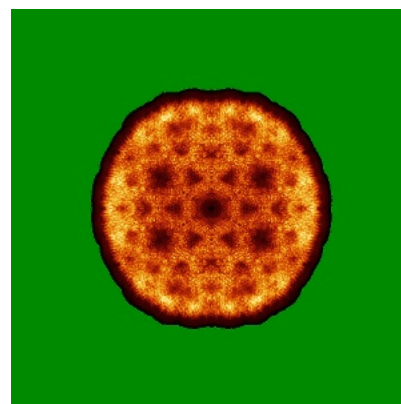
6.4.1 Primary map



X

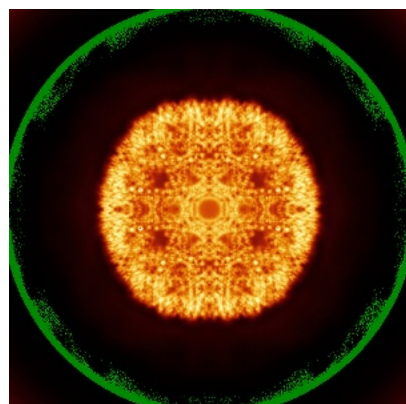


Y

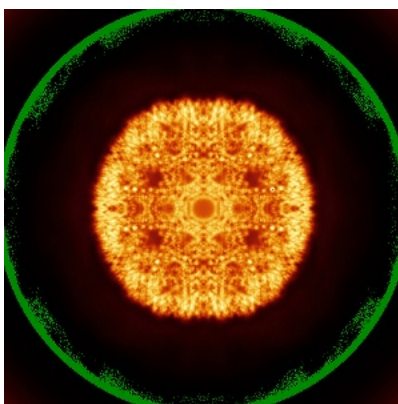


Z

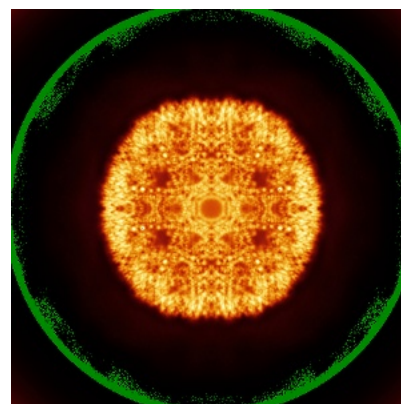
6.4.2 Raw map



X



Y

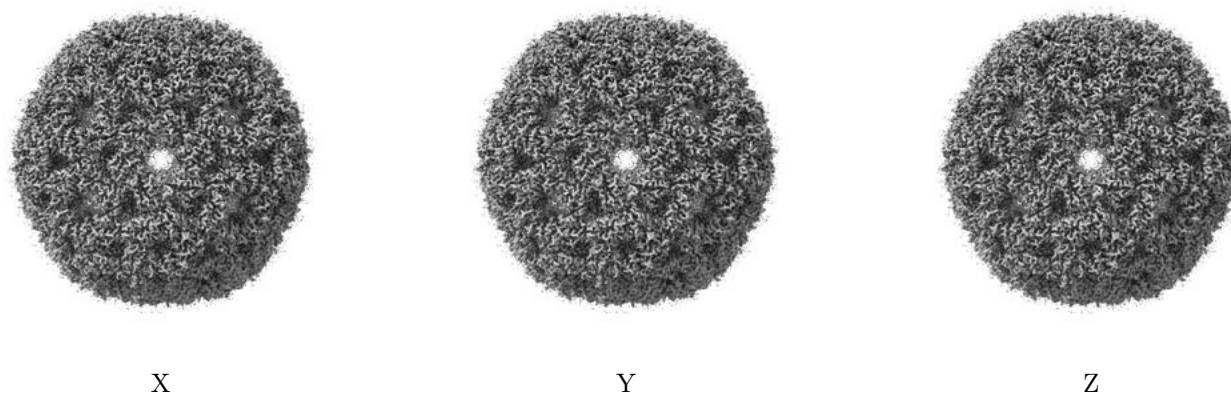


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

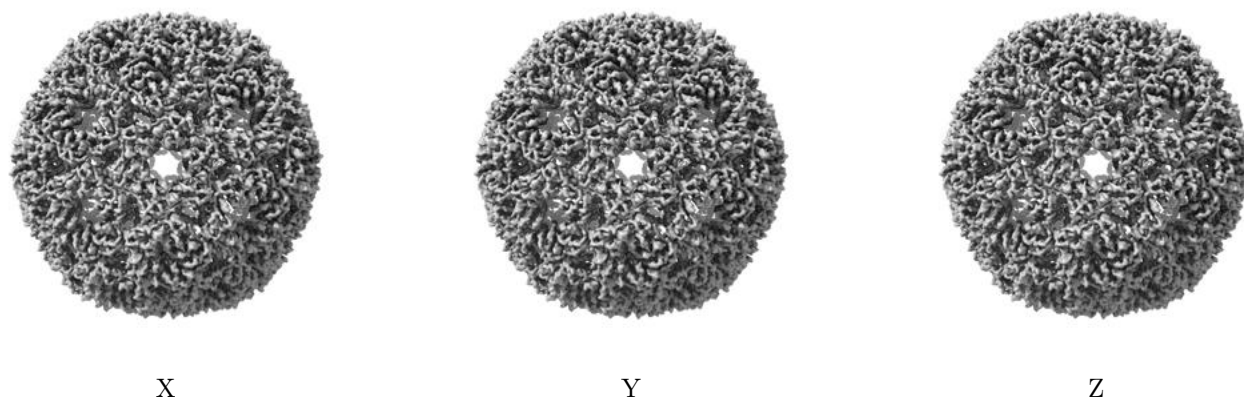
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.04. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

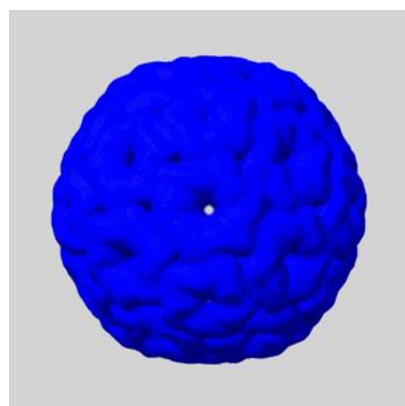
6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

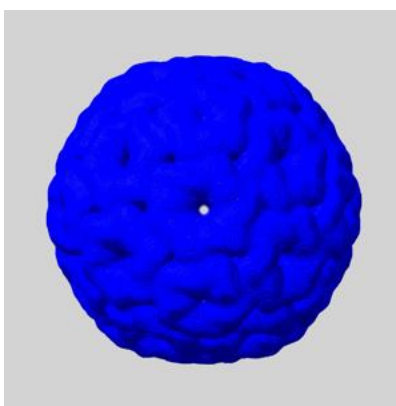
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

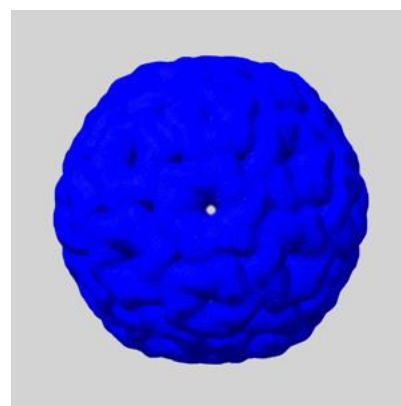
6.6.1 emd_56772_msk_1.map [i](#)



X



Y

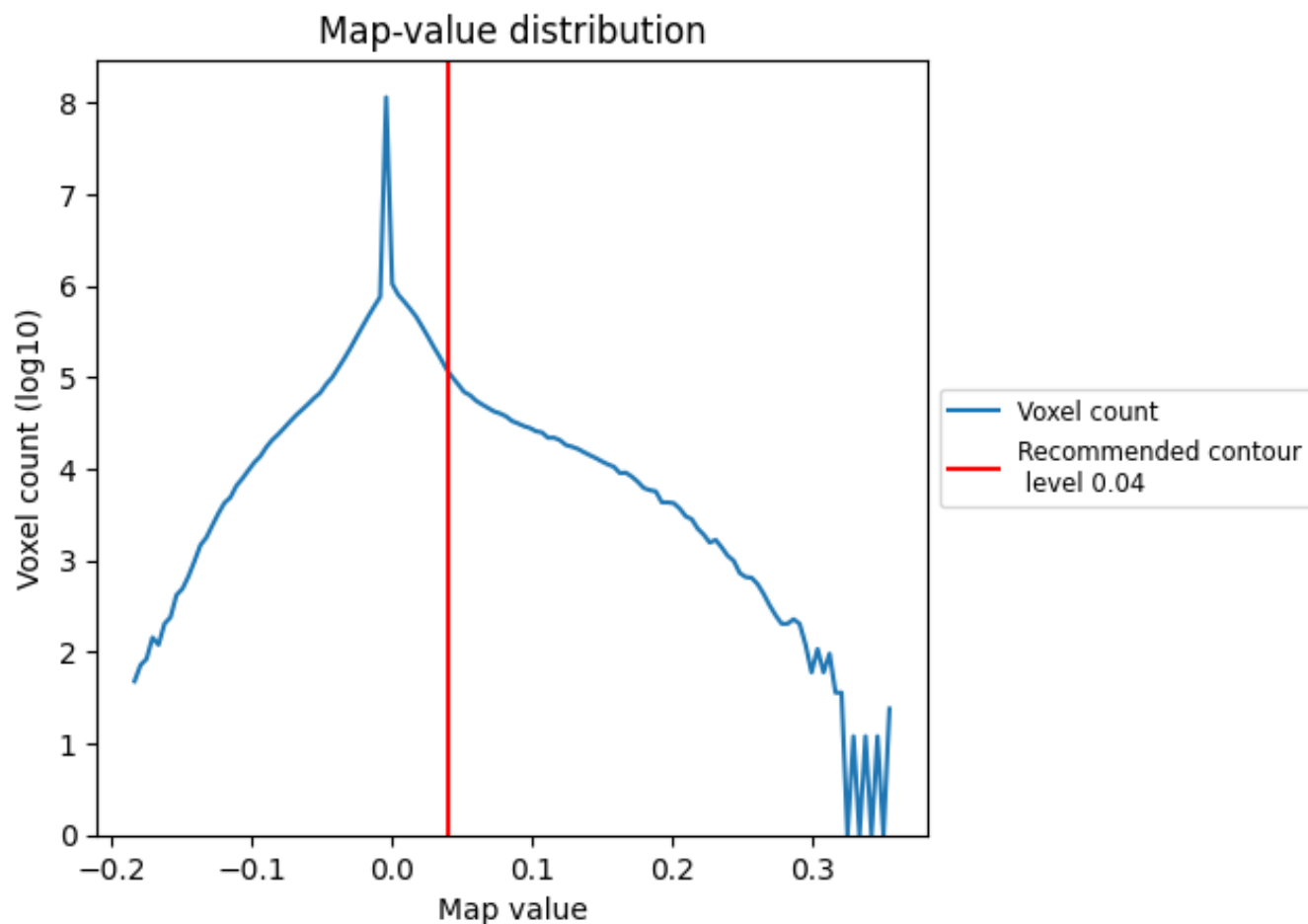


Z

7 Map analysis [i](#)

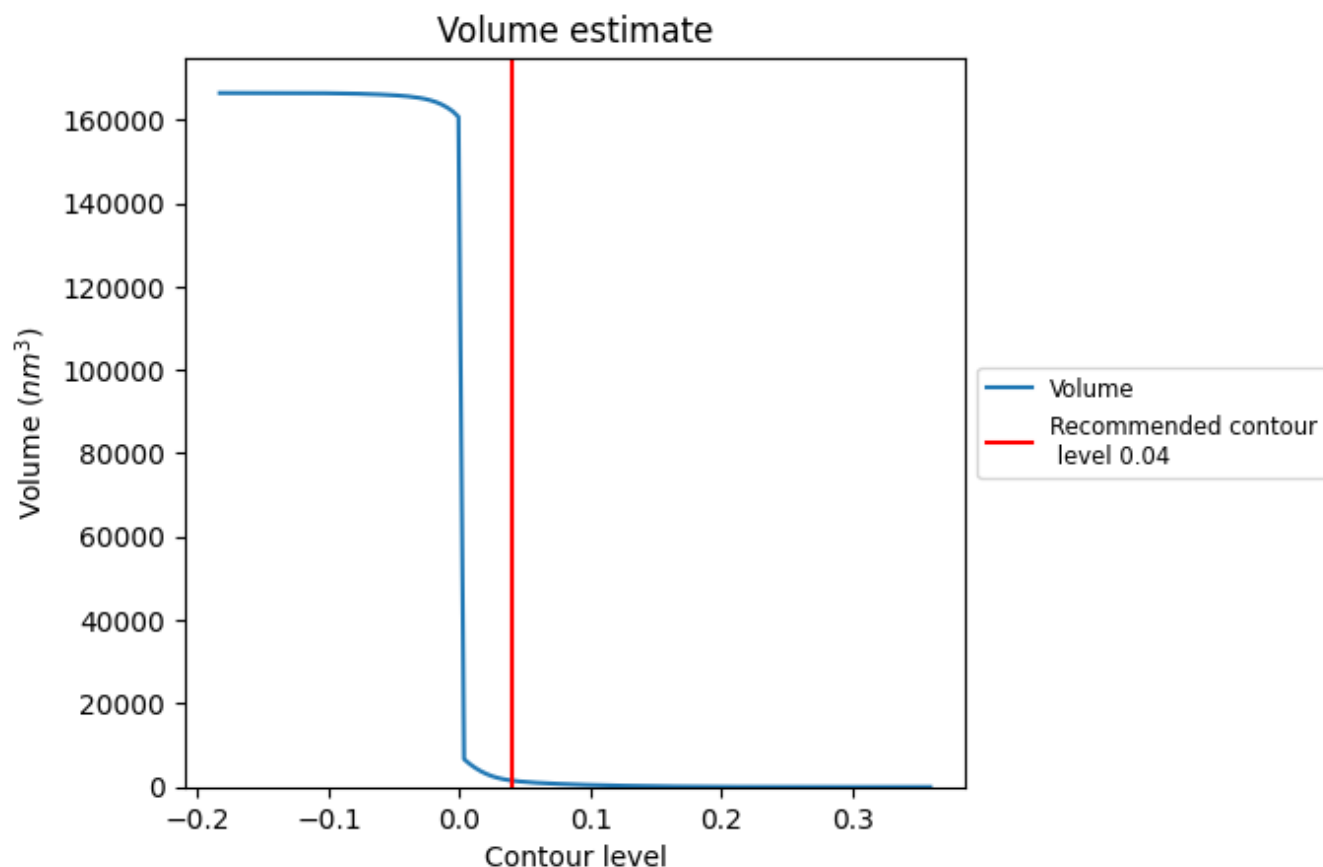
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

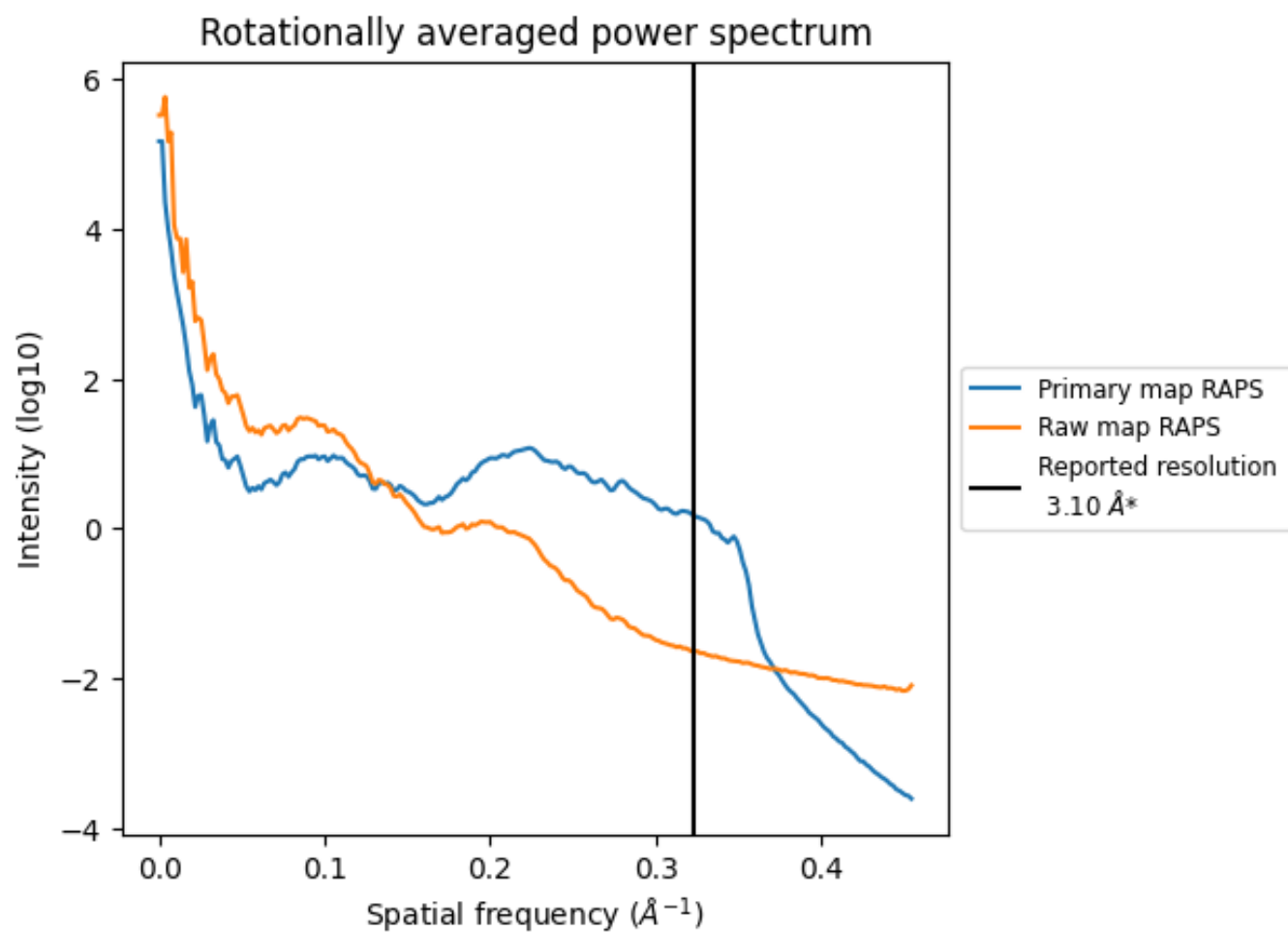
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1529 nm^3 ; this corresponds to an approximate mass of 1381 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum [i](#)

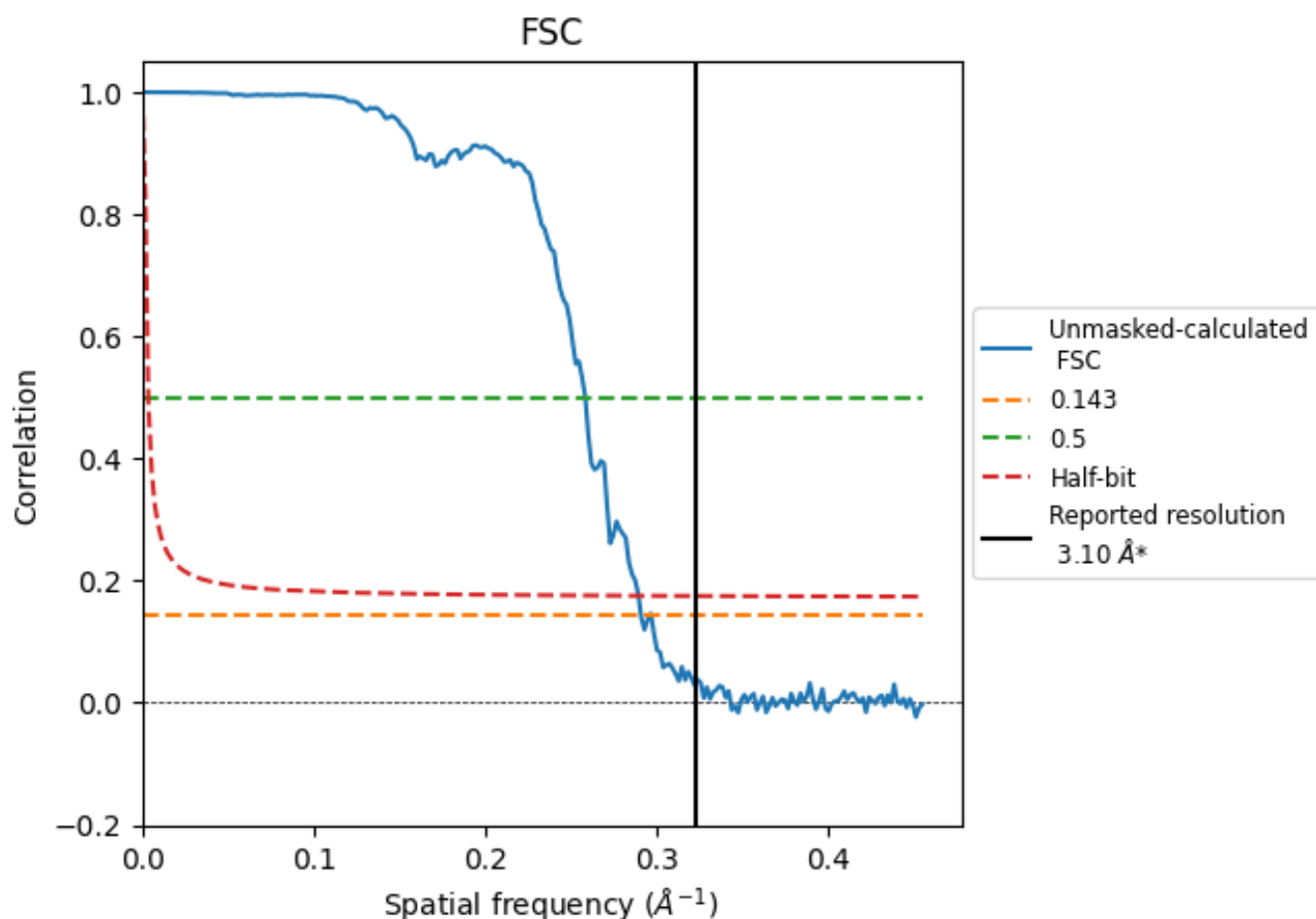


*Reported resolution corresponds to spatial frequency of 0.323 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.323 \AA^{-1}

8.2 Resolution estimates [i](#)

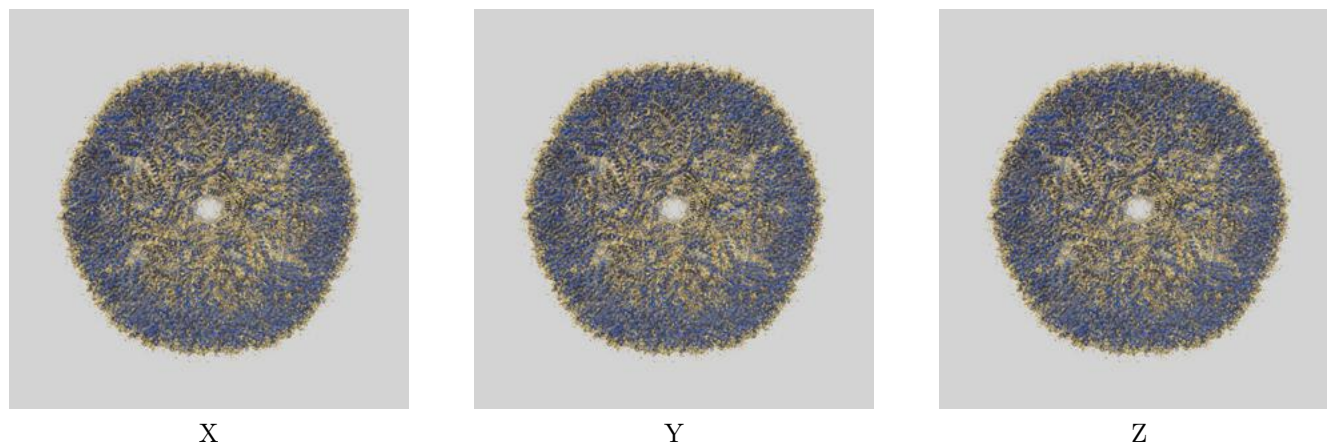
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.10	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.44	3.87	3.46

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.44 differs from the reported value 3.1 by more than 10 %

9 Map-model fit [i](#)

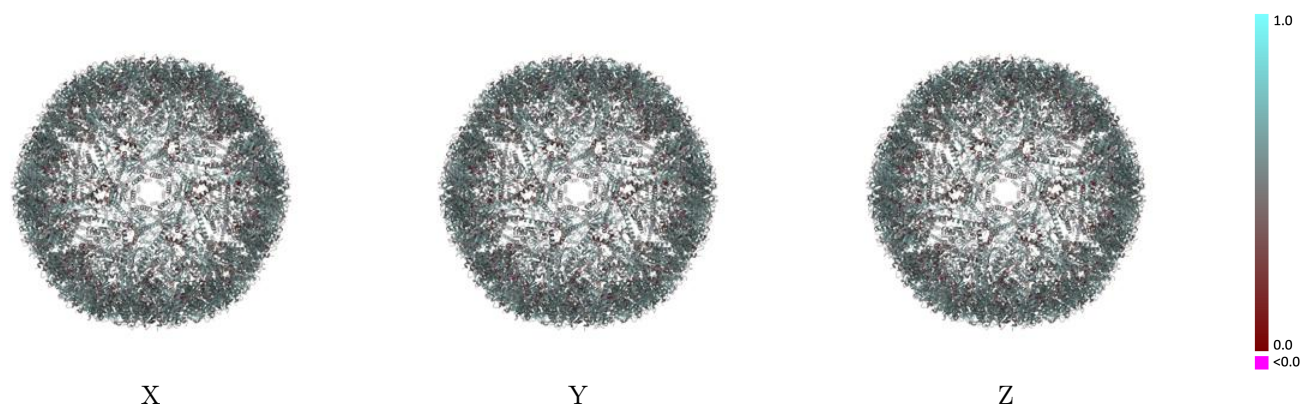
This section contains information regarding the fit between EMDB map EMD-56772 and PDB model 28RO. Per-residue inclusion information can be found in section [3](#) on page [390](#).

9.1 Map-model overlay [i](#)



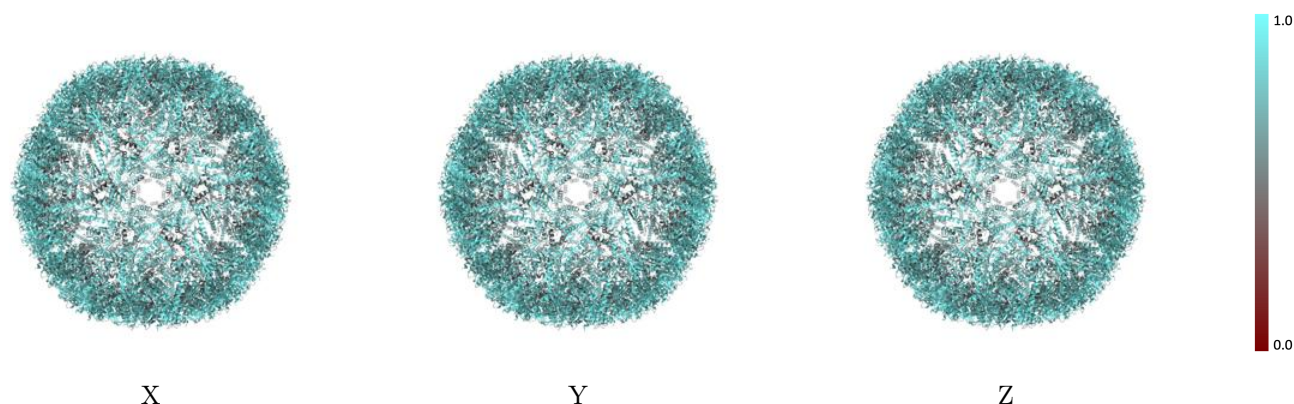
The images above show the 3D surface view of the map at the recommended contour level 0.04 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



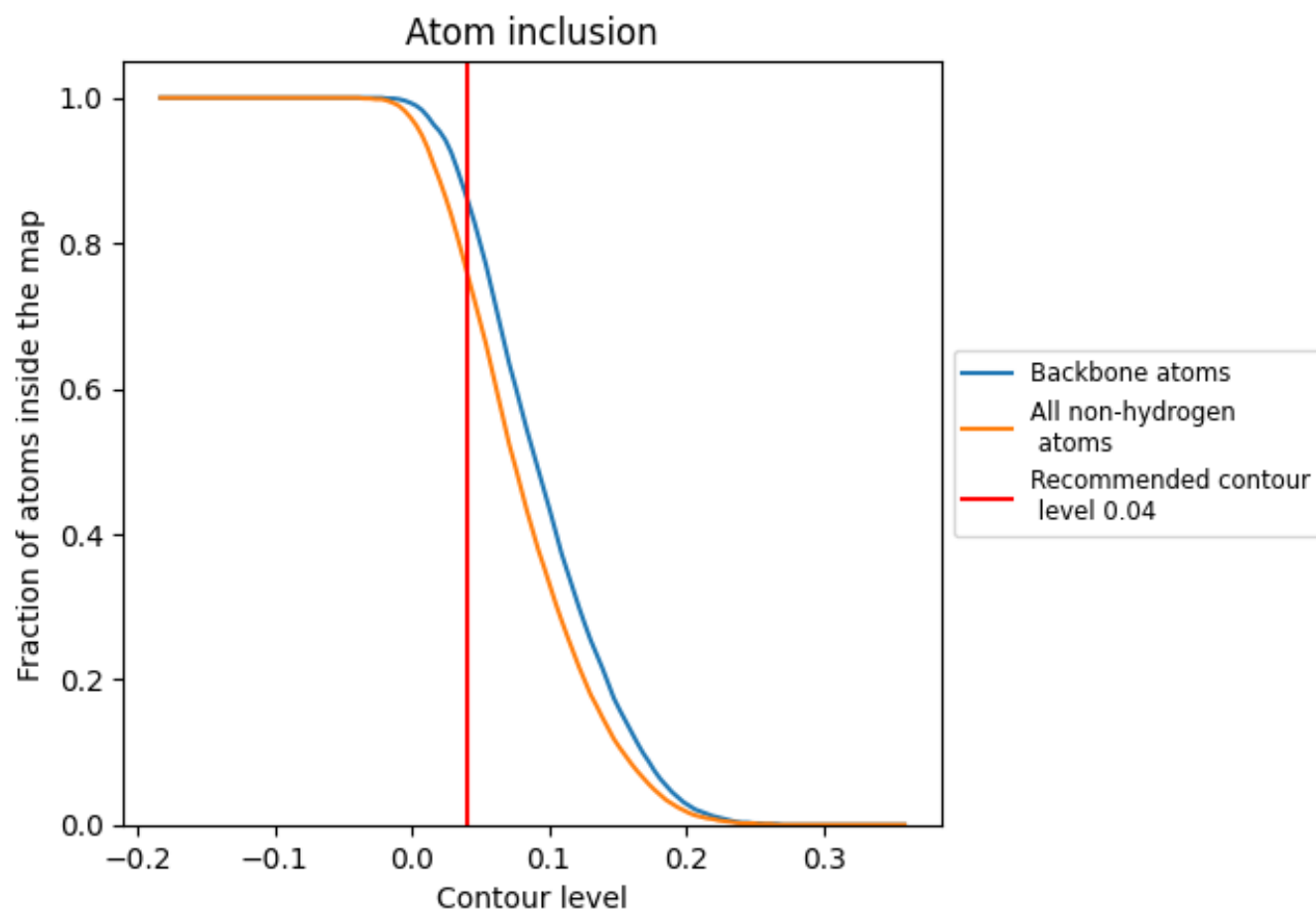
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.04).







































































9.4 Atom inclusion [i](#)



At the recommended contour level, 86% of all backbone atoms, 76% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ





















































































The table lists the average atom inclusion at the recommended contour level (0.04) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7620	 0.4950
0A	 0.7270	 0.4890
0B	 0.6930	 0.4440
0C	 0.6870	 0.4590
0D	 0.6980	 0.4610
0a	 0.8160	 0.5220
0b	 0.8140	 0.5230
0c	 0.7860	 0.5060
0d	 0.8260	 0.5260
1A	 0.7160	 0.4890
1B	 0.6870	 0.4410
1C	 0.6760	 0.4580
1D	 0.7120	 0.4640
1a	 0.8170	 0.5220
1b	 0.8170	 0.5240
1c	 0.8060	 0.5050
1d	 0.8150	 0.5250
2A	 0.7060	 0.4920
2B	 0.6870	 0.4420
2C	 0.6850	 0.4600
2D	 0.6940	 0.4620
2a	 0.8190	 0.5210
2b	 0.8080	 0.5230
2c	 0.7880	 0.5080
2d	 0.8210	 0.5290
3A	 0.7160	 0.4920
3B	 0.6870	 0.4410
3C	 0.6830	 0.4650
3D	 0.7140	 0.4640
3a	 0.8170	 0.5250
3b	 0.8170	 0.5260
3c	 0.8070	 0.5130
3d	 0.8150	 0.5260
4A	 0.7100	 0.4940
4B	 0.7040	 0.4430























































































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Chain	Atom inclusion	Q-score
4C	 0.6790	 0.4500
4D	 0.7020	 0.4600
4a	 0.8120	 0.5260
4b	 0.8170	 0.5260
4c	 0.7960	 0.5070
4d	 0.8200	 0.5260
5A	 0.7040	 0.4900
5B	 0.7020	 0.4420
5C	 0.6850	 0.4600
5D	 0.7080	 0.4550
5a	 0.8140	 0.5210
5b	 0.8170	 0.5240
5c	 0.7880	 0.5090
5d	 0.8180	 0.5280
6A	 0.7160	 0.4920
6B	 0.6870	 0.4400
6C	 0.6810	 0.4620
6D	 0.7080	 0.4610
6a	 0.8160	 0.5230
6b	 0.8190	 0.5210
6c	 0.7880	 0.5070
6d	 0.8180	 0.5280
7A	 0.7080	 0.4950
7B	 0.7040	 0.4380
7C	 0.6790	 0.4570
7D	 0.7020	 0.4590
7a	 0.8190	 0.5180
7b	 0.8220	 0.5250
7c	 0.7930	 0.4990
7d	 0.8200	 0.5250
AA	 0.7160	 0.4900
AB	 0.6830	 0.4460
AC	 0.6790	 0.4630
AD	 0.7020	 0.4600
Aa	 0.8160	 0.5230
Ab	 0.8170	 0.5250
Ac	 0.8090	 0.5120
Ad	 0.8130	 0.5250
BA	 0.7060	 0.4940
BB	 0.7040	 0.4430
BC	 0.6810	 0.4560
BD	 0.7000	 0.4610





















































































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Chain	Atom inclusion	Q-score
Ba	 0.8120	 0.5220
Bb	 0.8190	 0.5230
Bc	 0.7940	 0.5060
Bd	 0.8210	 0.5270
CA	 0.7140	 0.4880
CB	 0.6890	 0.4370
CC	 0.6870	 0.4620
CD	 0.6940	 0.4590
Ca	 0.8170	 0.5220
Cb	 0.8110	 0.5240
Cc	 0.7910	 0.5070
Cd	 0.8200	 0.5260
DA	 0.7160	 0.4940
DB	 0.6850	 0.4400
DC	 0.6810	 0.4640
DD	 0.7080	 0.4600
Da	 0.8170	 0.5200
Db	 0.8160	 0.5250
Dc	 0.7880	 0.5100
Dd	 0.8180	 0.5280
EA	 0.7190	 0.4900
EB	 0.6910	 0.4430
EC	 0.6890	 0.4630
ED	 0.6980	 0.4630
Ea	 0.8140	 0.5240
Eb	 0.8090	 0.5250
Ec	 0.7910	 0.5090
Ed	 0.8310	 0.5310
FA	 0.7160	 0.4930
FB	 0.6890	 0.4390
FC	 0.6760	 0.4520
FD	 0.7020	 0.4660
Fa	 0.8220	 0.5270
Fb	 0.8160	 0.5270
Fc	 0.7830	 0.5040
Fd	 0.8130	 0.5270
GA	 0.7190	 0.4920
GB	 0.6910	 0.4410
GC	 0.6720	 0.4590
GD	 0.7120	 0.4650
Ga	 0.8200	 0.5260
Gb	 0.8210	 0.5260





















































































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Chain	Atom inclusion	Q-score
Gc	 0.8030	 0.5090
Gd	 0.8150	 0.5260
HA	 0.7250	 0.4920
HB	 0.6960	 0.4390
HC	 0.6890	 0.4610
HD	 0.7000	 0.4630
Ha	 0.8140	 0.5230
Hb	 0.8140	 0.5270
Hc	 0.7980	 0.5080
Hd	 0.8310	 0.5280
IA	 0.7140	 0.4920
IB	 0.6870	 0.4430
IC	 0.6810	 0.4620
ID	 0.7120	 0.4600
Ia	 0.8160	 0.5240
Ib	 0.8160	 0.5220
Ic	 0.7830	 0.5080
Id	 0.8180	 0.5260
JA	 0.7060	 0.4910
JB	 0.6980	 0.4410
JC	 0.6740	 0.4630
JD	 0.7000	 0.4560
Ja	 0.8140	 0.5210
Jb	 0.8210	 0.5200
Jc	 0.7960	 0.5070
Jd	 0.8160	 0.5240
KA	 0.7040	 0.4940
KB	 0.6890	 0.4430
KC	 0.6830	 0.4600
KD	 0.6960	 0.4580
Ka	 0.8170	 0.5170
Kb	 0.8140	 0.5230
Kc	 0.7880	 0.5080
Kd	 0.8210	 0.5230
LA	 0.7100	 0.4920
LB	 0.6890	 0.4380
LC	 0.6790	 0.4640
LD	 0.7100	 0.4580
La	 0.8140	 0.5190
Lb	 0.8160	 0.5220
Lc	 0.7880	 0.5080
Ld	 0.8180	 0.5280





















































































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Chain	Atom inclusion	Q-score
MA	 0.7230	 0.4890
MB	 0.6890	 0.4430
MC	 0.6930	 0.4610
MD	 0.7000	 0.4590
Ma	 0.8120	 0.5200
Mb	 0.8080	 0.5240
Mc	 0.7910	 0.5070
Md	 0.8310	 0.5280
NA	 0.7250	 0.4940
NB	 0.6960	 0.4420
NC	 0.6810	 0.4530
ND	 0.7040	 0.4690
Na	 0.8270	 0.5240
Nb	 0.8210	 0.5240
Nc	 0.7960	 0.5030
Nd	 0.8160	 0.5230
OA	 0.7230	 0.4920
OB	 0.6930	 0.4430
OC	 0.6890	 0.4630
OD	 0.6980	 0.4600
Oa	 0.8120	 0.5200
Ob	 0.8110	 0.5250
Oc	 0.7930	 0.5060
Od	 0.8300	 0.5300
PA	 0.7140	 0.4920
PB	 0.6890	 0.4400
PC	 0.6870	 0.4590
PD	 0.6940	 0.4610
Pa	 0.8170	 0.5240
Pb	 0.8110	 0.5240
Pc	 0.7910	 0.5120
Pd	 0.8200	 0.5250
QA	 0.7080	 0.4910
QB	 0.6890	 0.4390
QC	 0.6850	 0.4590
QD	 0.6960	 0.4580
Qa	 0.8170	 0.5210
Qb	 0.8110	 0.5260
Qc	 0.7880	 0.5080
Qd	 0.8250	 0.5300
RA	 0.7140	 0.4900
RB	 0.6890	 0.4410





















































































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Chain	Atom inclusion	Q-score
RC	 0.6790	 0.4650
RD	 0.7120	 0.4610
Ra	 0.8160	 0.5220
Rb	 0.8190	 0.5190
Rc	 0.7880	 0.5060
Rd	 0.8180	 0.5280
SA	 0.7270	 0.4910
SB	 0.6910	 0.4450
SC	 0.6930	 0.4590
SD	 0.7020	 0.4650
Sa	 0.8120	 0.5190
Sb	 0.8140	 0.5230
Sc	 0.7940	 0.5090
Sd	 0.8280	 0.5250
TA	 0.7210	 0.4890
TB	 0.6910	 0.4380
TC	 0.6810	 0.4570
TD	 0.7120	 0.4640
Ta	 0.8190	 0.5240
Tb	 0.8220	 0.5210
Tc	 0.8060	 0.5090
Td	 0.8110	 0.5230
UA	 0.7120	 0.4900
UB	 0.6850	 0.4430
UC	 0.6850	 0.4590
UD	 0.6960	 0.4620
Ua	 0.8170	 0.5190
Ub	 0.8080	 0.5230
Uc	 0.7880	 0.5070
Ud	 0.8210	 0.5240
VA	 0.7140	 0.4940
VB	 0.6890	 0.4400
VC	 0.6790	 0.4630
VD	 0.7120	 0.4590
Va	 0.8170	 0.5180
Vb	 0.8190	 0.5180
Vc	 0.7850	 0.5040
Vd	 0.8200	 0.5220
WA	 0.7290	 0.4960
WB	 0.6910	 0.4440
WC	 0.6910	 0.4610
WD	 0.7020	 0.4570





















































































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Chain	Atom inclusion	Q-score
Wa	 0.8120	 0.5180
Wb	 0.8140	 0.5260
Wc	 0.7940	 0.5070
Wd	 0.8280	 0.5280
XA	 0.7210	 0.4940
XB	 0.6910	 0.4390
XC	 0.6830	 0.4590
XD	 0.7120	 0.4600
Xa	 0.8190	 0.5230
Xb	 0.8220	 0.5280
Xc	 0.8060	 0.5110
Xd	 0.8110	 0.5260
YA	 0.7060	 0.4870
YB	 0.7000	 0.4400
YC	 0.6850	 0.4610
YD	 0.7100	 0.4560
Ya	 0.8140	 0.5220
Yb	 0.8190	 0.5230
Yc	 0.7910	 0.5060
Yd	 0.8160	 0.5270
ZA	 0.7190	 0.4910
ZB	 0.6890	 0.4360
ZC	 0.6760	 0.4590
ZD	 0.7080	 0.4640
Za	 0.8200	 0.5260
Zb	 0.8190	 0.5290
Zc	 0.8060	 0.5120
Zd	 0.8130	 0.5270
aA	 0.7060	 0.4900
aB	 0.7020	 0.4410
aC	 0.6810	 0.4600
aD	 0.7080	 0.4580
aa	 0.8090	 0.5230
ab	 0.8190	 0.5240
ac	 0.7960	 0.5090
ad	 0.8180	 0.5290
bA	 0.7230	 0.4920
bB	 0.6910	 0.4460
bC	 0.6810	 0.4600
bD	 0.6980	 0.4610
ba	 0.8120	 0.5220
bb	 0.8170	 0.5270





















































































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Chain	Atom inclusion	Q-score
bc	 0.7830	 0.5080
bd	 0.8200	 0.5240
cA	 0.7100	 0.4910
cB	 0.6890	 0.4420
cC	 0.6790	 0.4620
cD	 0.7060	 0.4610
ca	 0.8140	 0.5200
cb	 0.8160	 0.5210
cc	 0.7900	 0.5050
cd	 0.8160	 0.5230
dA	 0.7210	 0.4940
dB	 0.6890	 0.4410
dC	 0.6930	 0.4600
dD	 0.7020	 0.4620
da	 0.8120	 0.5230
db	 0.8090	 0.5270
dc	 0.7910	 0.5070
dd	 0.8300	 0.5270
eA	 0.7140	 0.4910
eB	 0.6910	 0.4440
eC	 0.6700	 0.4550
eD	 0.6960	 0.4530
ea	 0.8170	 0.5220
eb	 0.8260	 0.5200
ec	 0.7930	 0.5090
ed	 0.8070	 0.5160
fA	 0.7340	 0.4930
fB	 0.6980	 0.4420
fC	 0.6850	 0.4550
fD	 0.6940	 0.4630
fa	 0.8220	 0.5230
fb	 0.8190	 0.5260
fc	 0.7910	 0.5090
fd	 0.8230	 0.5260
gA	 0.7060	 0.4930
gB	 0.7000	 0.4380
gC	 0.6830	 0.4610
gD	 0.7120	 0.4590
ga	 0.8110	 0.5190
gb	 0.8170	 0.5200
gc	 0.7860	 0.5050
gd	 0.8180	 0.5230





















































































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Chain	Atom inclusion	Q-score
hA	 0.7060	 0.4890
hB	 0.6890	 0.4400
hC	 0.6810	 0.4570
hD	 0.6940	 0.4580
ha	 0.8160	 0.5160
hb	 0.8110	 0.5240
hc	 0.7860	 0.5070
hd	 0.8210	 0.5240
iA	 0.7160	 0.4920
iB	 0.6870	 0.4410
iC	 0.6810	 0.4650
iD	 0.7060	 0.4580
ia	 0.8170	 0.5230
ib	 0.8140	 0.5200
ic	 0.7850	 0.5050
id	 0.8180	 0.5290
jA	 0.7140	 0.4930
jB	 0.6870	 0.4400
jC	 0.6810	 0.4630
jD	 0.7080	 0.4600
ja	 0.8170	 0.5220
jb	 0.8160	 0.5200
jc	 0.7850	 0.5060
jd	 0.8180	 0.5270
kA	 0.7230	 0.4910
kB	 0.6960	 0.4450
kC	 0.6910	 0.4590
kD	 0.7020	 0.4600
ka	 0.8140	 0.5190
kb	 0.8130	 0.5230
kc	 0.7960	 0.5050
kd	 0.8300	 0.5270
lA	 0.7040	 0.4880
lB	 0.7040	 0.4390
lC	 0.6850	 0.4640
lD	 0.7120	 0.4590
la	 0.8110	 0.5240
lb	 0.8170	 0.5230
lc	 0.7900	 0.5090
ld	 0.8180	 0.5290
mA	 0.7060	 0.4910
mB	 0.6870	 0.4420





















































































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Chain	Atom inclusion	Q-score
mC	 0.6810	 0.4580
mD	 0.6940	 0.4620
ma	 0.8190	 0.5220
mb	 0.8080	 0.5210
mc	 0.7860	 0.5100
md	 0.8230	 0.5240
nA	 0.7210	 0.4920
nB	 0.6890	 0.4390
nC	 0.6930	 0.4600
nD	 0.7020	 0.4620
na	 0.8110	 0.5200
nb	 0.8090	 0.5240
nc	 0.7910	 0.5070
nd	 0.8310	 0.5300
oA	 0.7210	 0.4990
oB	 0.6890	 0.4460
oC	 0.6760	 0.4500
oD	 0.7060	 0.4600
oa	 0.8200	 0.5250
ob	 0.8220	 0.5270
oc	 0.7880	 0.5100
od	 0.8160	 0.5210
pA	 0.7040	 0.4930
pB	 0.6980	 0.4420
pC	 0.6760	 0.4560
pD	 0.7040	 0.4570
pa	 0.8160	 0.5220
pb	 0.8190	 0.5260
pc	 0.7990	 0.5110
pd	 0.8180	 0.5290
qA	 0.7210	 0.4930
qB	 0.7000	 0.4440
qC	 0.6760	 0.4570
qD	 0.6940	 0.4600
qa	 0.8170	 0.5220
qb	 0.8170	 0.5250
qc	 0.7820	 0.5060
qd	 0.8130	 0.5280
rA	 0.7100	 0.4880
rB	 0.6890	 0.4410
rC	 0.6790	 0.4620
rD	 0.7080	 0.4620





















































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Chain	Atom inclusion	Q-score
ra	 0.8160	 0.5230
rb	 0.8160	 0.5210
rc	 0.7880	 0.5080
rd	 0.8180	 0.5250
sA	 0.7230	 0.4900
sB	 0.6910	 0.4390
sC	 0.6740	 0.4630
sD	 0.7120	 0.4660
sa	 0.8190	 0.5260
sb	 0.8220	 0.5270
sc	 0.8070	 0.5110
sd	 0.8110	 0.5260
tA	 0.7060	 0.4940
tB	 0.7060	 0.4440
tC	 0.6850	 0.4560
tD	 0.7000	 0.4590
ta	 0.8160	 0.5210
tb	 0.8160	 0.5260
tc	 0.7930	 0.5070
td	 0.8230	 0.5280
uA	 0.7080	 0.4890
uB	 0.6890	 0.4410
uC	 0.6870	 0.4620
uD	 0.6940	 0.4590
ua	 0.8170	 0.5250
ub	 0.8080	 0.5260
uc	 0.7880	 0.5100
ud	 0.8230	 0.5230
vA	 0.7140	 0.4910
vB	 0.6890	 0.4400
vC	 0.6790	 0.4630
vD	 0.7120	 0.4600
va	 0.8170	 0.5230
vb	 0.8170	 0.5220
vc	 0.7860	 0.5100
vd	 0.8200	 0.5260
wA	 0.7270	 0.4910
wB	 0.6930	 0.4420
wC	 0.6930	 0.4590
wD	 0.7020	 0.4600
wa	 0.8140	 0.5230
wb	 0.8130	 0.5250

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Chain	Atom inclusion	Q-score
wc	 0.7940	 0.5100
wd	 0.8280	 0.5300
xA	 0.7080	 0.4890
xB	 0.7000	 0.4380
xC	 0.6870	 0.4650
xD	 0.7080	 0.4580
xa	 0.8160	 0.5200
xb	 0.8210	 0.5220
xc	 0.7930	 0.5030
xd	 0.8160	 0.5260
yA	 0.7140	 0.4920
yB	 0.6890	 0.4440
yC	 0.6870	 0.4580
yD	 0.6940	 0.4560
ya	 0.8190	 0.5180
yb	 0.8090	 0.5260
yc	 0.7910	 0.5080
yd	 0.8210	 0.5240
zA	 0.7160	 0.4910
zB	 0.6870	 0.4370
zC	 0.6810	 0.4630
zD	 0.7080	 0.4600
za	 0.8160	 0.5200
zb	 0.8160	 0.5250
zc	 0.7860	 0.5090
zd	 0.8180	 0.5280