Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 12:12 PM UTC

PDB ID	:	9Z4W / pdb_00009z4w
EMDB ID	:	EMD-73814
Title	:	Cryo-EM structure of rabbit major vault protein complex
Authors	:	Li, H.; Clarke, O.B.
Deposited on	:	2025-11-11
Resolution	:	2.40 Å(reported)

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:

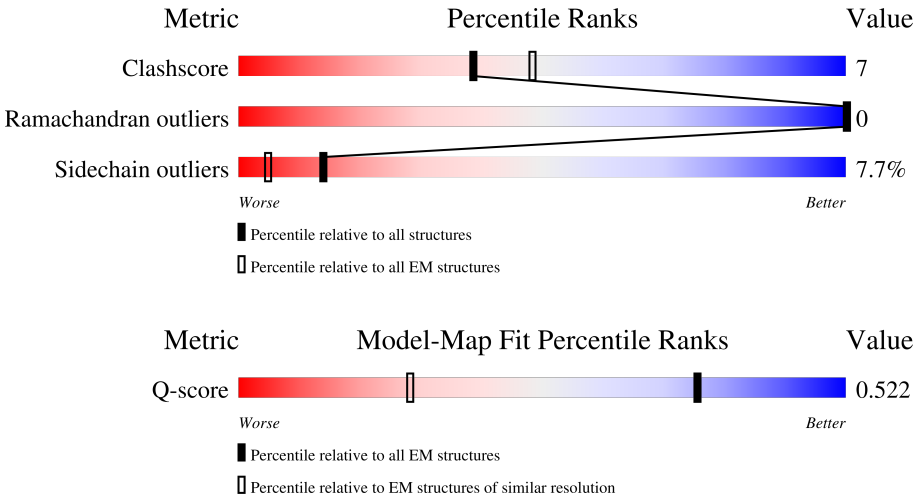
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & 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 2.40 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	5628 (1.90 - 2.90)

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 <=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	0	890	71% 17% • 11%
1	1	890	71% 18% • 9%
1	2	890	71% 17% • 11%
1	3	890	71% 17% • 10%

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Mol	Chain	Length	Quality of chain
1	4	890	72% 17% • 9%
1	5	890	72% 16% • 10%
1	6	890	71% 17% • 11%
1	7	890	72% 18% • 9%
1	8	890	71% 17% • 11%
1	9	890	72% 17% • 10%
1	A	890	71% 17% • 11%
1	AA	890	72% 18% • 9%
1	AB	890	72% 16% • 10%
1	AC	890	71% 17% • 11%
1	AD	890	71% 19% • 9%
1	AE	890	71% 17% • 11%
1	AF	890	72% 17% • 10%
1	AG	890	72% 18% • 9%
1	AH	890	72% 16% • 10%
1	AI	890	71% 17% • 11%
1	AJ	890	71% 19% • 9%
1	AK	890	71% 16% • 11%
1	AL	890	71% 17% • 10%
1	AM	890	72% 18% • 9%
1	AN	890	72% 17% • 10%
1	AO	890	70% 17% • 11%
1	AP	890	71% 18% • 9%
1	B	890	72% 17% • 10%
1	C	890	72% 17% • 9%

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Mol	Chain	Length	Quality of chain
1	D	890	71% 17% • 10%
1	E	890	71% 17% • 11%
1	F	890	72% 18% • 9%
1	G	890	71% 17% • 11%
1	H	890	72% 17% • 10%
1	I	890	72% 17% • 9%
1	J	890	72% 17% • 10%
1	K	890	71% 17% • 11%
1	L	890	71% 18% • 9%
1	M	890	71% 17% • 11%
1	N	890	71% 17% • 10%
1	O	890	72% 17% • 9%
1	P	890	72% 17% • 10%
1	Q	890	71% 17% • 11%
1	R	890	71% 19% • 9%
1	S	890	71% 16% • 11%
1	T	890	71% 17% • 10%
1	U	890	72% 18% • 9%
1	V	890	72% 17% • 10%
1	W	890	71% 16% • 11%
1	X	890	71% 19% • 9%
1	Y	890	71% 17% • 11%
1	Z	890	71% 17% • 10%
1	a	890	72% 18% • 9%
1	b	890	72% 17% • 10%

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Mol	Chain	Length	Quality of chain
1	c	890	71% 16% • 11%
1	d	890	72% 18% • 9%
1	e	890	71% 17% • 11%
1	f	890	72% 17% • 10%
1	g	890	72% 18% • 9%
1	h	890	71% 17% • 10%
1	i	890	71% 17% • 11%
1	j	890	71% 18% • 9%
1	k	890	71% 17% • 11%
1	l	890	71% 17% • 10%
1	m	890	72% 18% • 9%
1	n	890	72% 16% • 10%
1	o	890	71% 16% • 11%
1	p	890	72% 18% • 9%
1	q	890	71% 17% • 11%
1	r	890	71% 17% • 10%
1	s	890	72% 18% • 9%
1	t	890	72% 17% • 10%
1	u	890	71% 17% • 11%
1	v	890	71% 18% • 9%
1	w	890	71% 17% • 11%
1	x	890	71% 17% • 10%
1	y	890	72% 18% • 9%
1	z	890	72% 17% • 10%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 491504 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 Major vault protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	795	Total	C	N	O	S	0	0
			6247	3940	1117	1178	12		
1	B	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	C	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	D	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	E	795	Total	C	N	O	S	0	0
			6253	3946	1117	1178	12		
1	F	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	G	795	Total	C	N	O	S	0	0
			6247	3940	1117	1178	12		
1	H	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	I	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	J	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	K	795	Total	C	N	O	S	0	0
			6253	3946	1117	1178	12		
1	L	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	M	795	Total	C	N	O	S	0	0
			6247	3940	1117	1178	12		
1	N	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	O	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	P	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	Q	795	Total	C	N	O	S	0	0
			6253	3946	1117	1178	12		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	S	795	Total	C	N	O	S	0	0
			6247	3940	1117	1178	12		
1	T	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	U	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	V	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	W	795	Total	C	N	O	S	0	0
			6253	3946	1117	1178	12		
1	X	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	Y	795	Total	C	N	O	S	0	0
			6247	3940	1117	1178	12		
1	Z	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	a	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	b	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	c	795	Total	C	N	O	S	0	0
			6253	3946	1117	1178	12		
1	d	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	e	795	Total	C	N	O	S	0	0
			6247	3940	1117	1178	12		
1	f	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	g	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	h	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	i	795	Total	C	N	O	S	0	0
			6253	3946	1117	1178	12		
1	j	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	k	795	Total	C	N	O	S	0	0
			6247	3940	1117	1178	12		
1	l	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	n	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	o	795	Total	C	N	O	S	0	0
			6253	3946	1117	1178	12		
1	p	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	q	795	Total	C	N	O	S	0	0
			6247	3940	1117	1178	12		
1	r	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	s	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	t	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	u	795	Total	C	N	O	S	0	0
			6253	3946	1117	1178	12		
1	v	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	w	795	Total	C	N	O	S	0	0
			6247	3940	1117	1178	12		
1	x	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	y	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	z	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	0	795	Total	C	N	O	S	0	0
			6253	3946	1117	1178	12		
1	1	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	2	795	Total	C	N	O	S	0	0
			6247	3940	1117	1178	12		
1	3	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	4	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	5	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	6	795	Total	C	N	O	S	0	0
			6253	3946	1117	1178	12		

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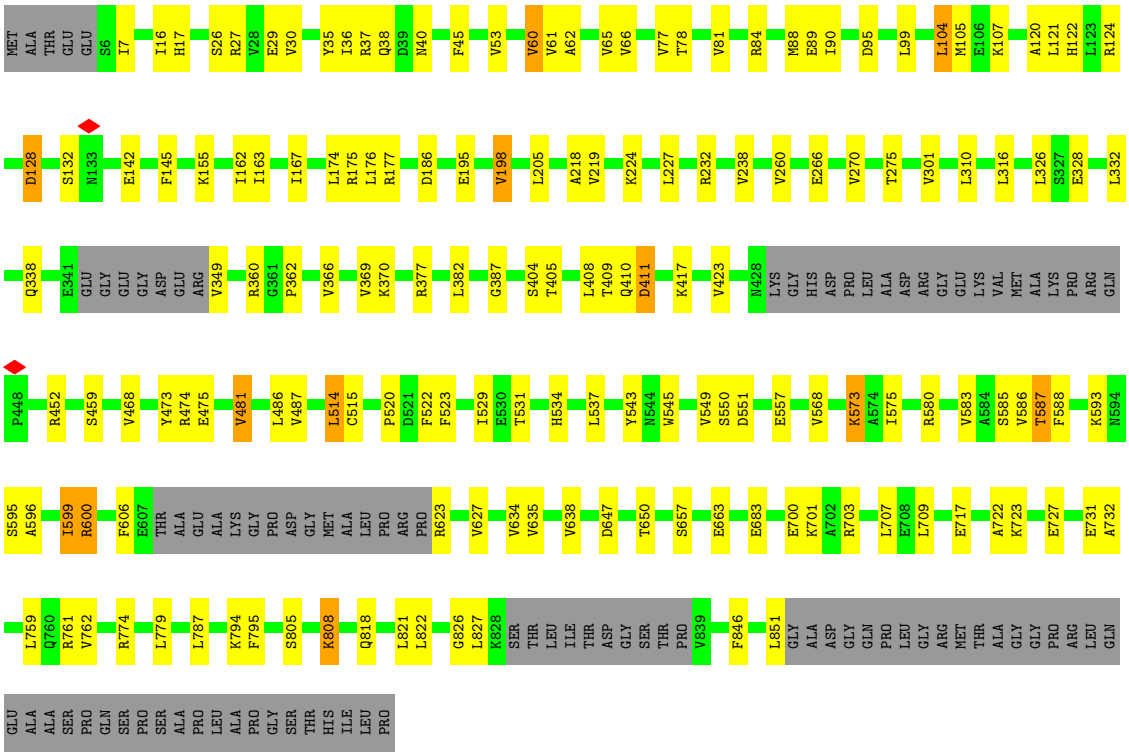
Mol	Chain	Residues	Atoms					AltConf	Trace
1	7	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	8	795	Total	C	N	O	S	0	0
			6247	3940	1117	1178	12		
1	9	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	AA	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	AB	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	AC	795	Total	C	N	O	S	0	0
			6253	3946	1117	1178	12		
1	AD	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	AE	795	Total	C	N	O	S	0	0
			6247	3940	1117	1178	12		
1	AF	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	AG	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	AH	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	AI	795	Total	C	N	O	S	0	0
			6253	3946	1117	1178	12		
1	AJ	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	AK	795	Total	C	N	O	S	0	0
			6247	3940	1117	1178	12		
1	AL	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	AM	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		
1	AN	798	Total	C	N	O	S	0	0
			6275	3952	1121	1190	12		
1	AO	795	Total	C	N	O	S	0	0
			6253	3946	1117	1178	12		
1	AP	812	Total	C	N	O	S	0	0
			6379	4021	1137	1209	12		

3 Residue-property plots (i)

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.

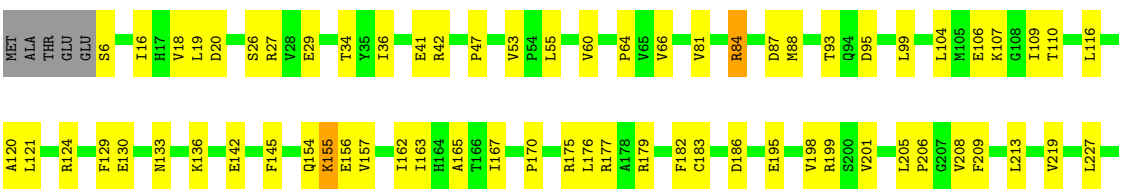
• Molecule 1: Major vault protein

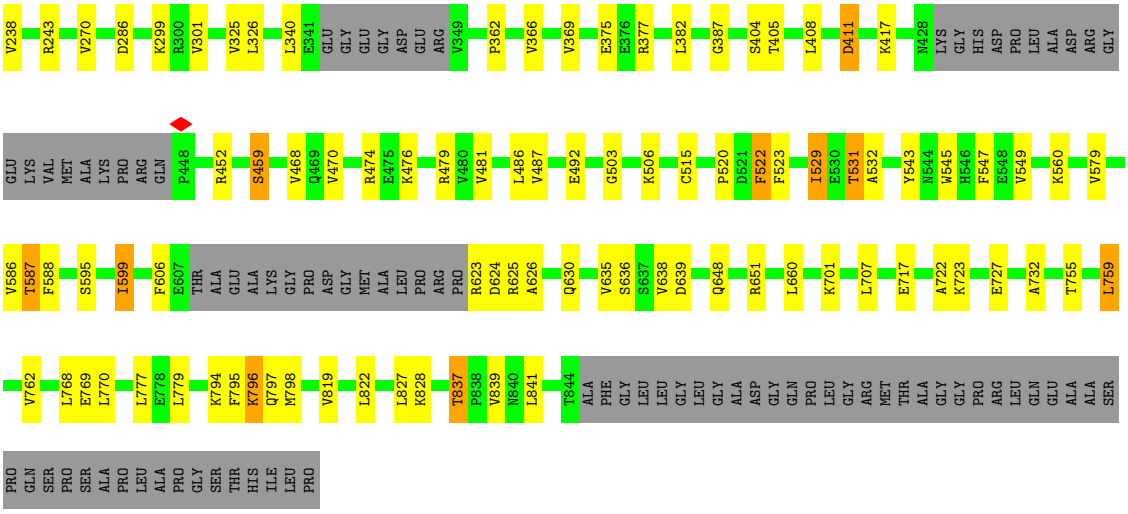
Chain A:



• Molecule 1: Major vault protein

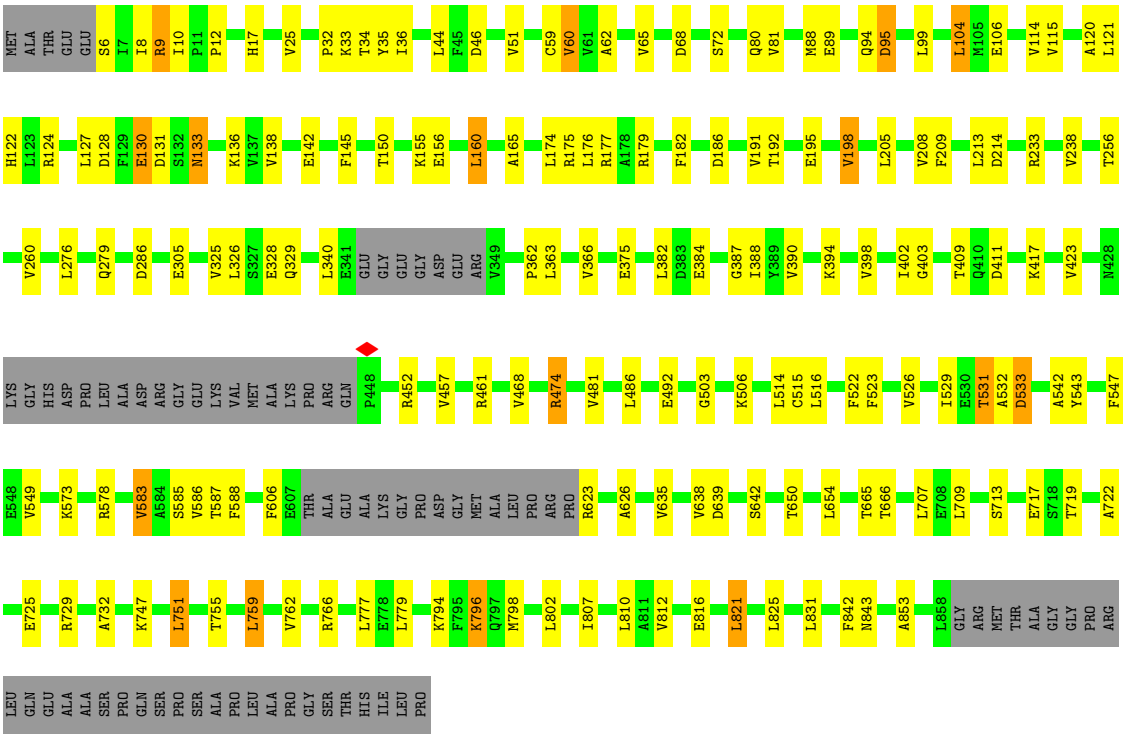
Chain B:





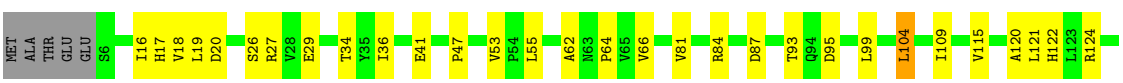
• Molecule 1: Major vault protein

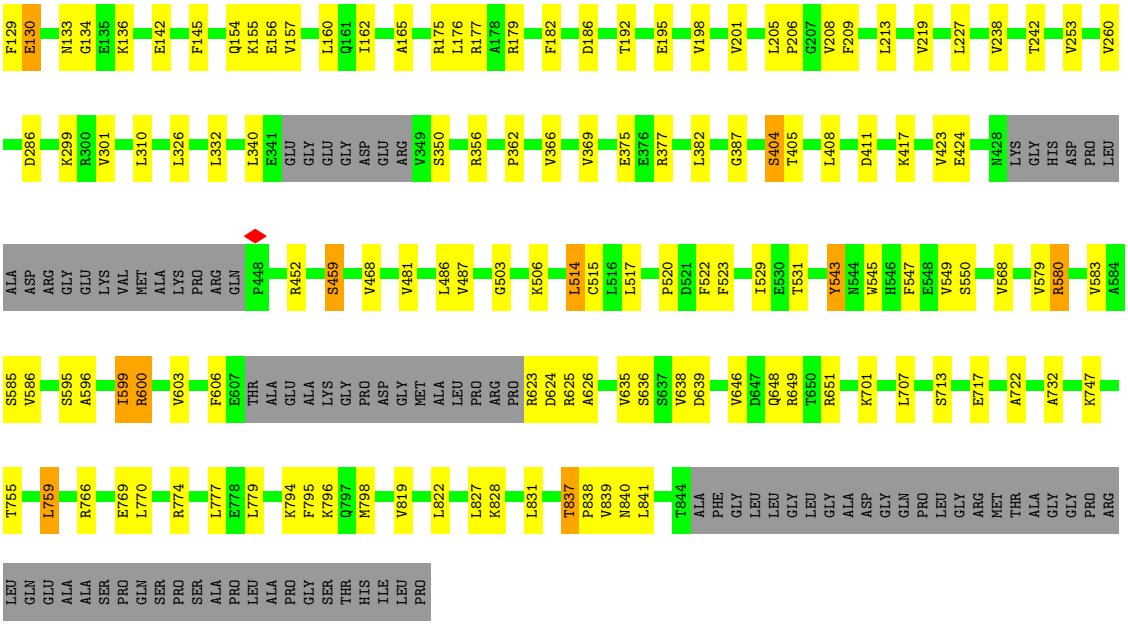
Chain C:



• Molecule 1: Major vault protein

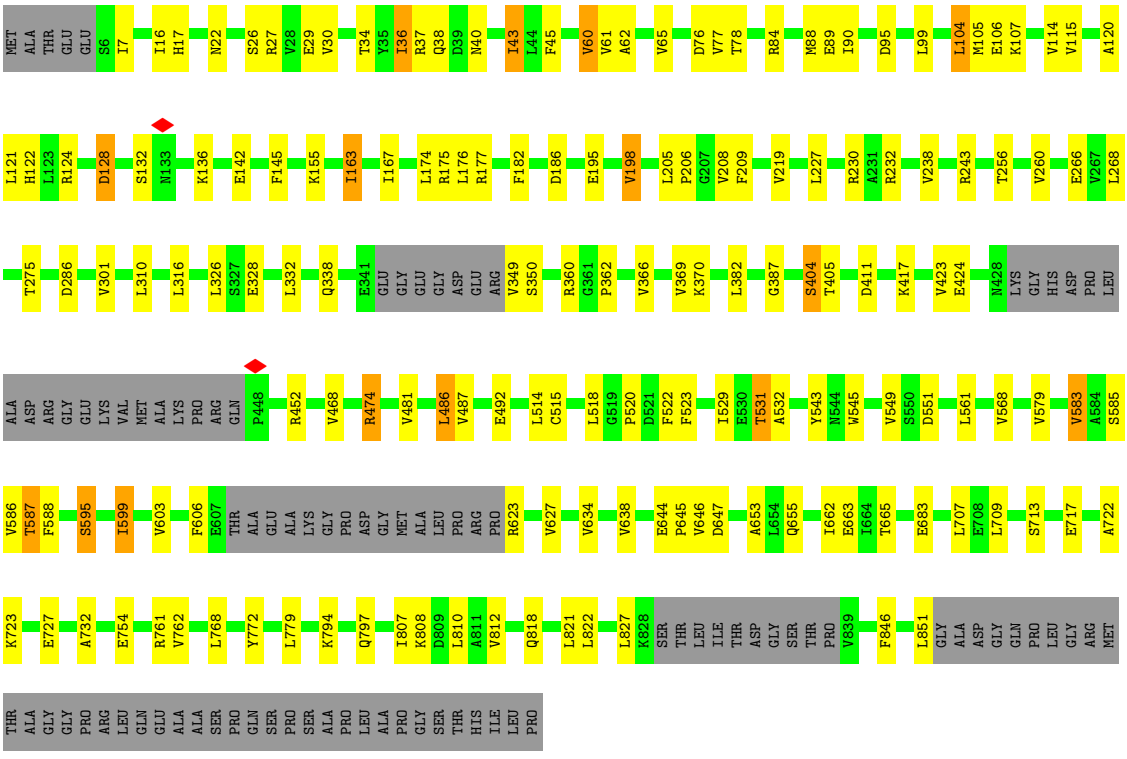
Chain D:





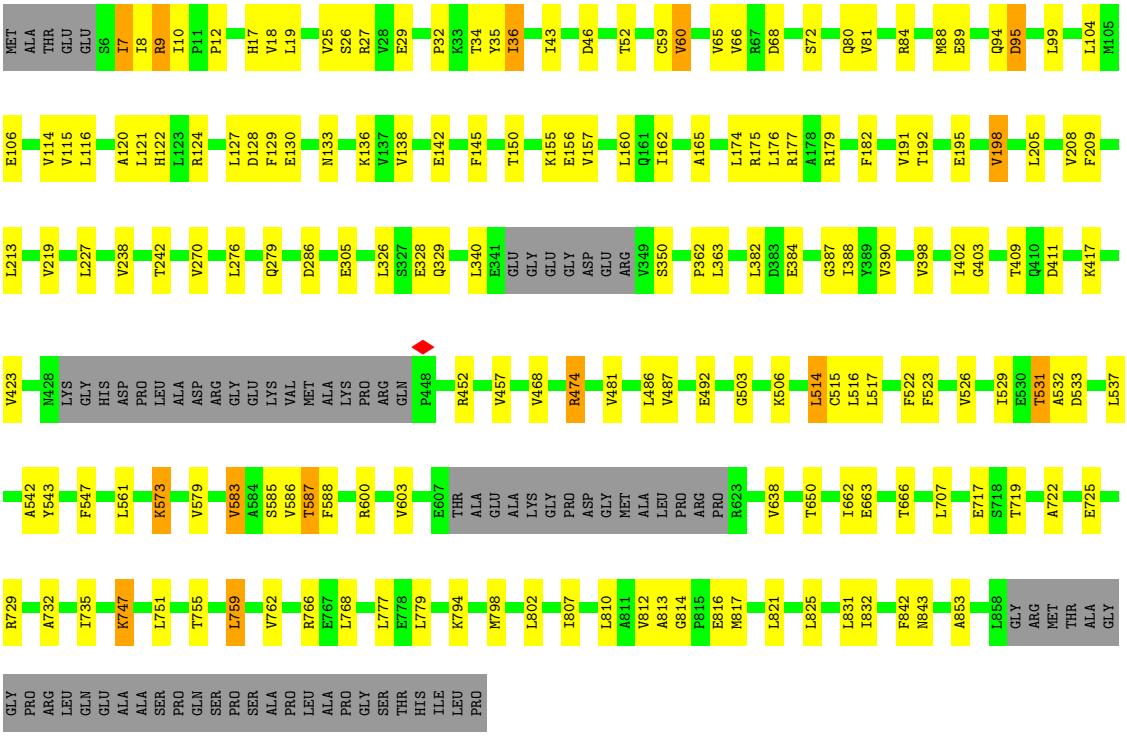
• Molecule 1: Major vault protein

Chain E:



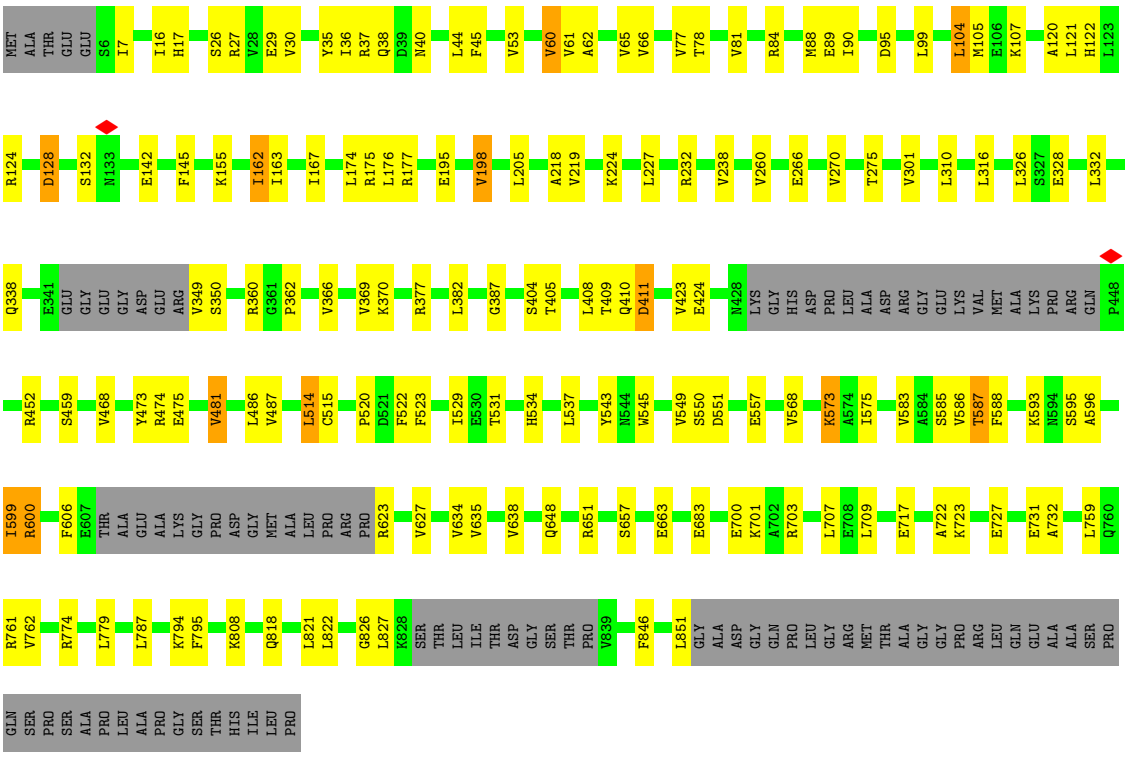
• Molecule 1: Major vault protein

Chain F:



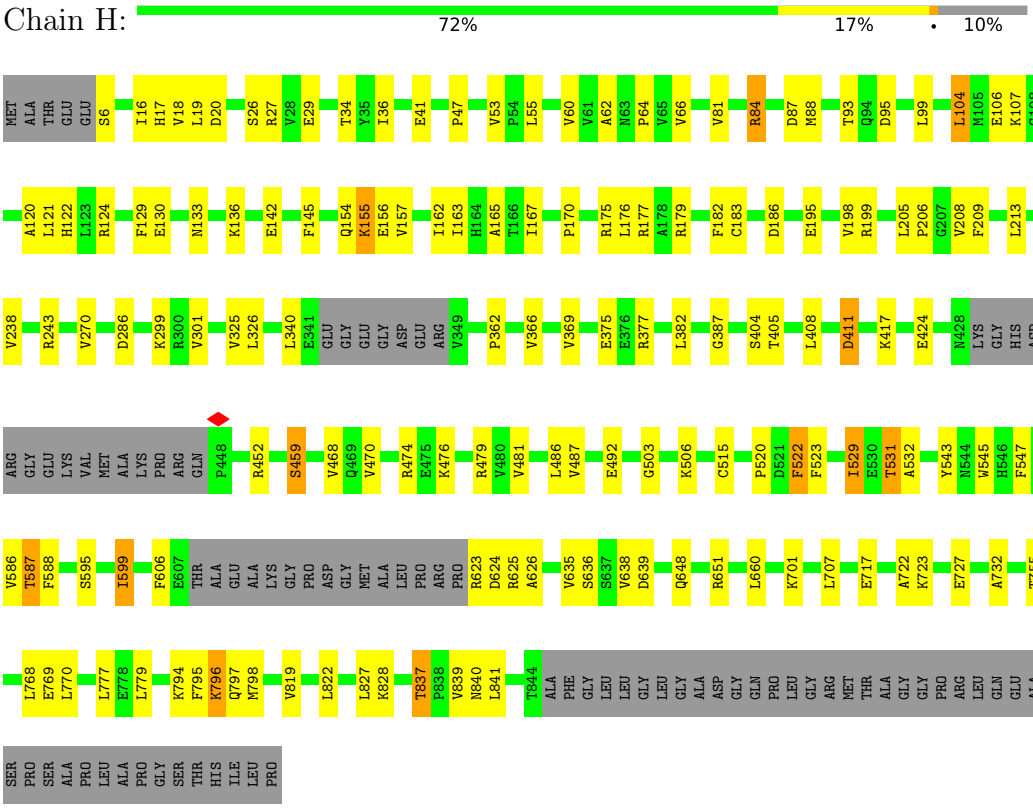
• Molecule 1: Major vault protein

Chain G:



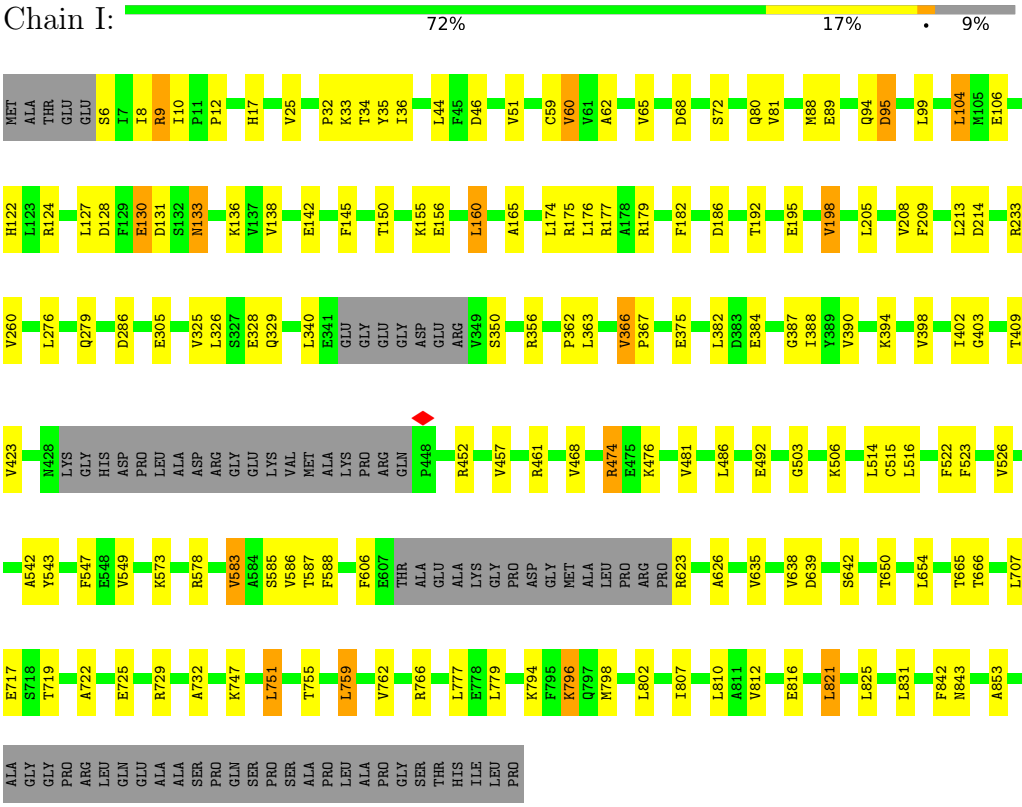
• Molecule 1: Major vault protein

Chain H:



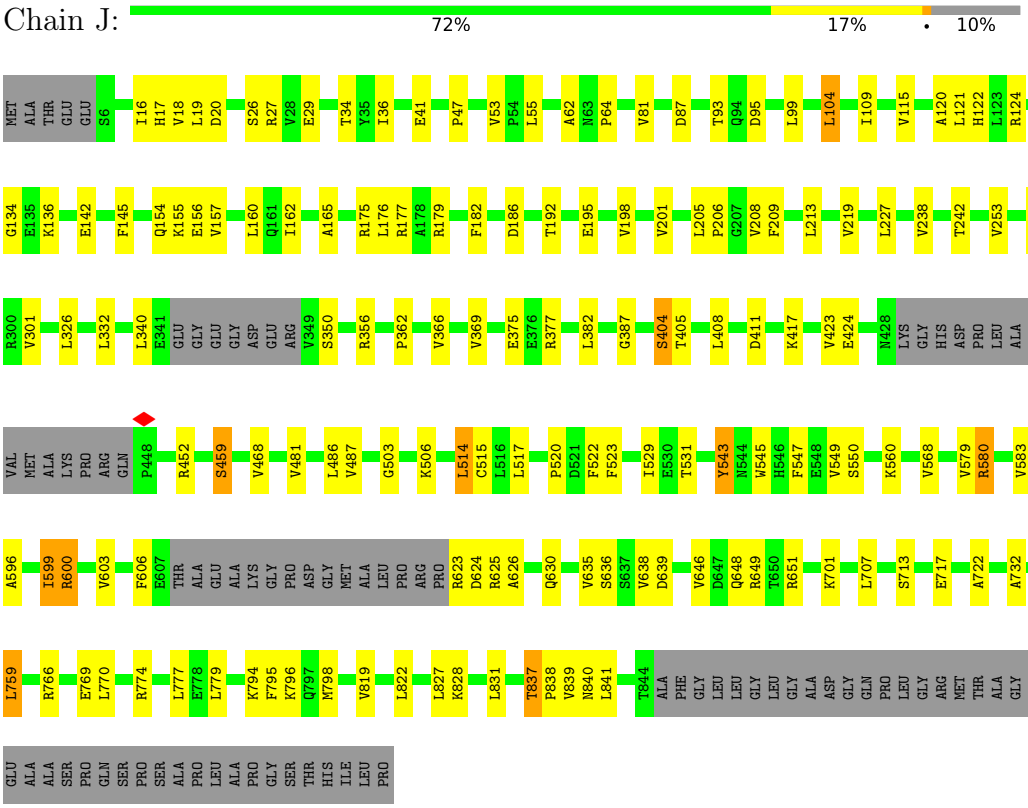
• Molecule 1: Major vault protein

Chain I:



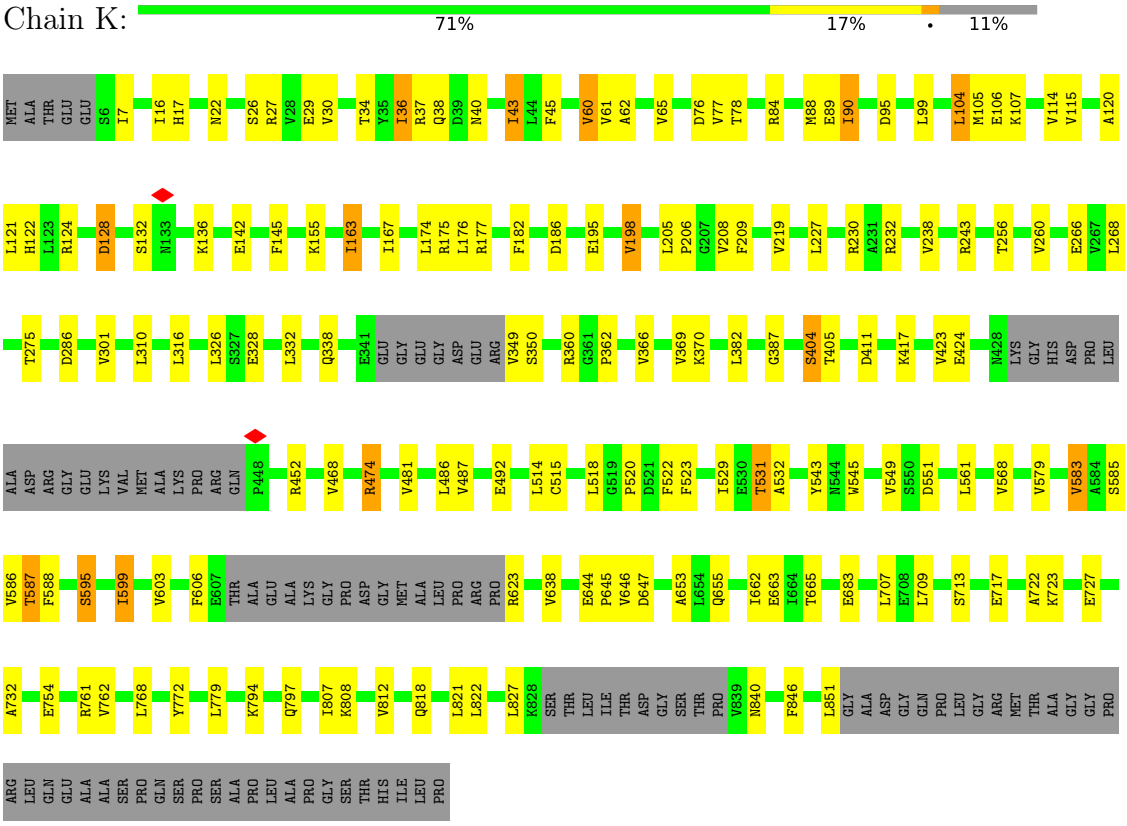
• Molecule 1: Major vault protein

Chain J:



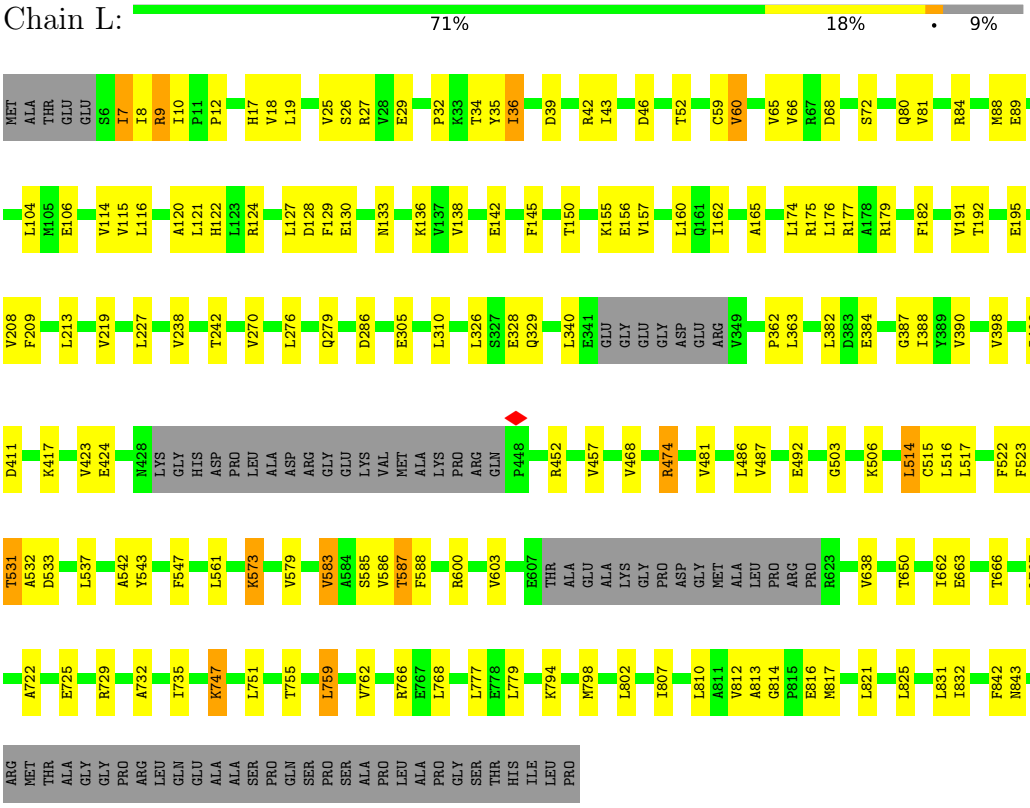
• Molecule 1: Major vault protein

Chain K:



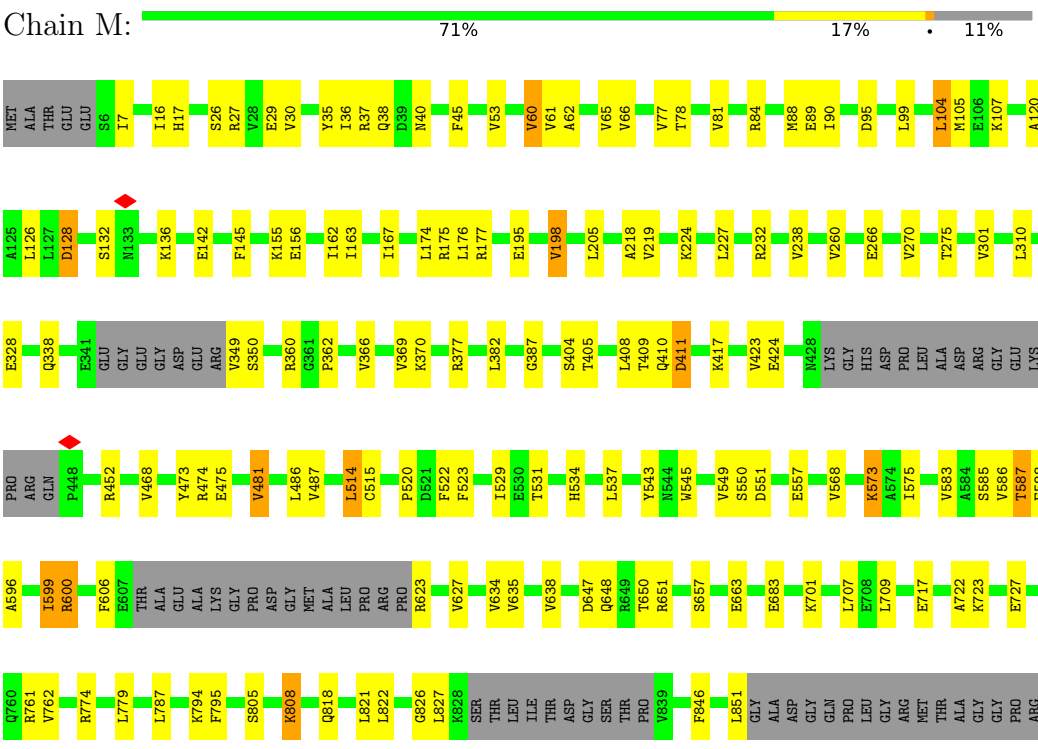
• Molecule 1: Major vault protein

Chain L:



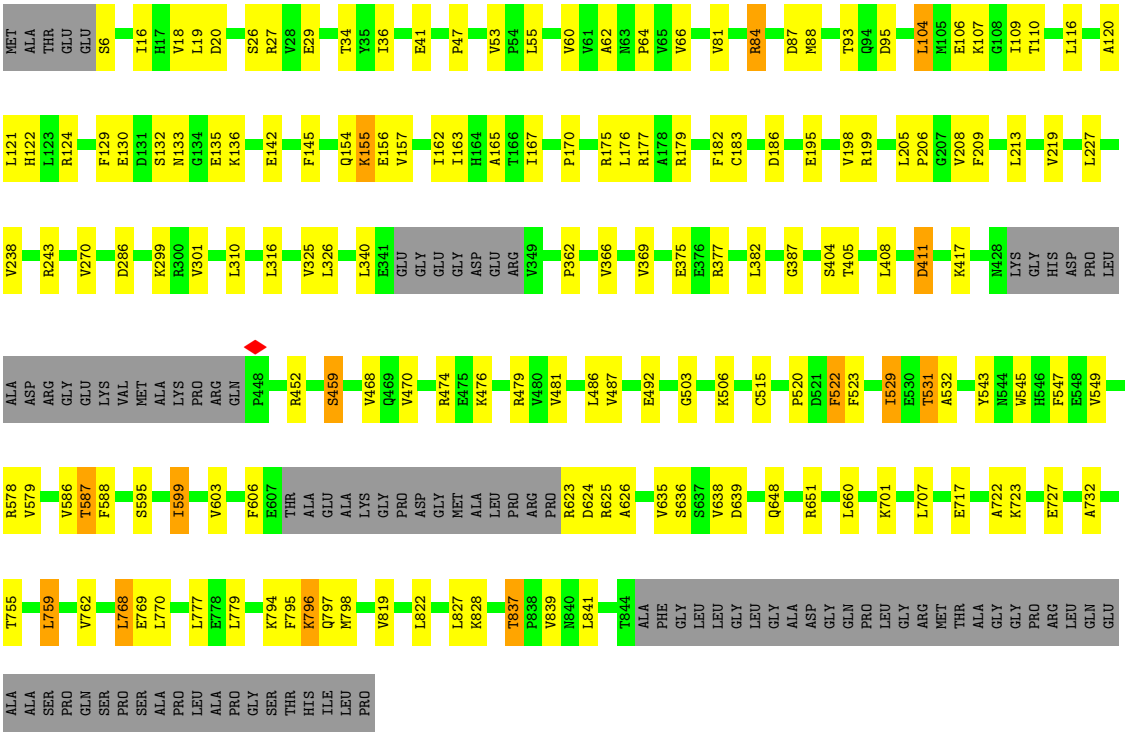
• Molecule 1: Major vault protein

Chain M:



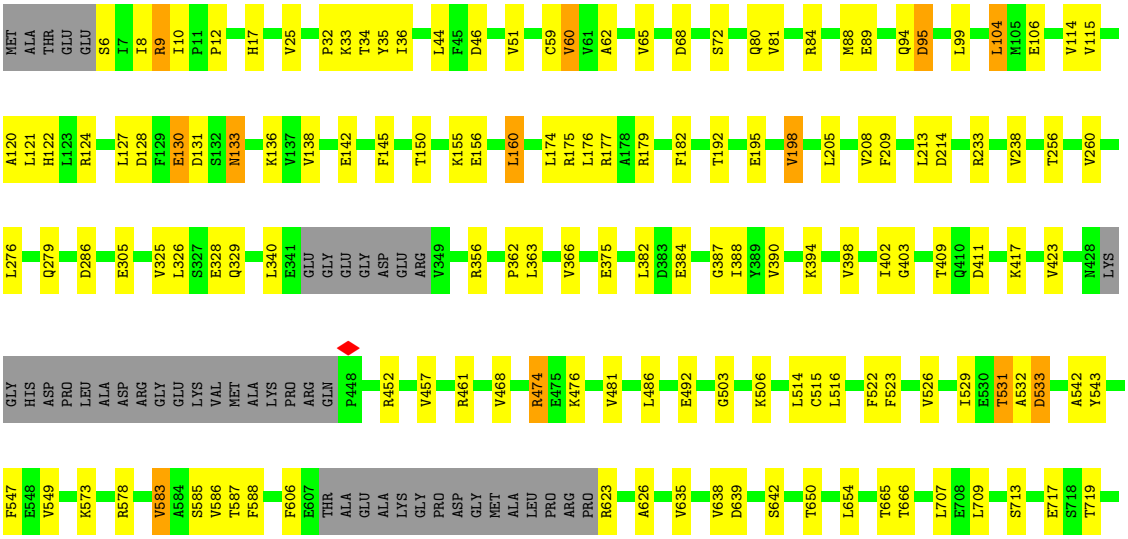
• Molecule 1: Major vault protein

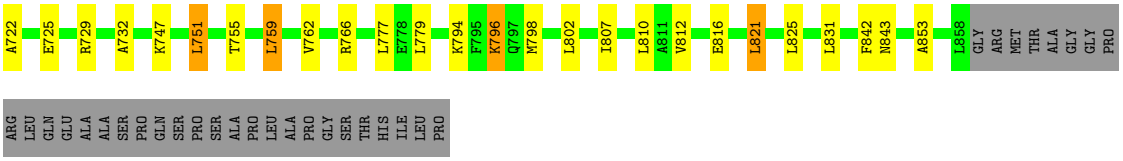
Chain N:



• Molecule 1: Major vault protein

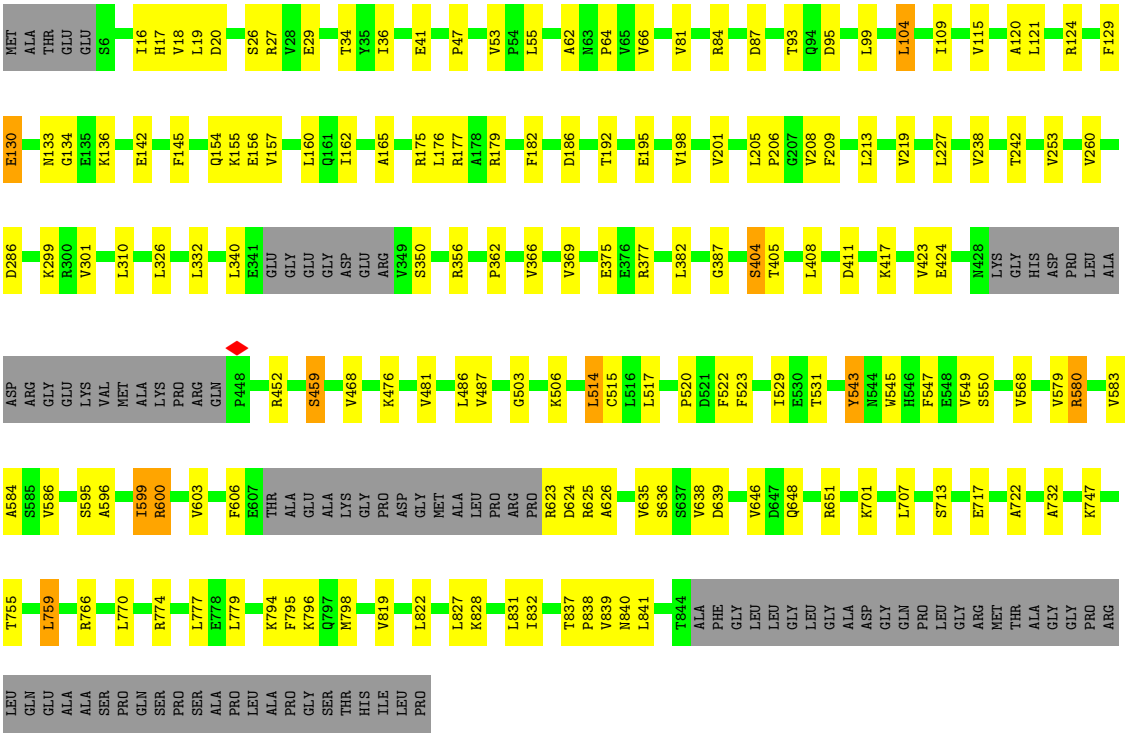
Chain O:





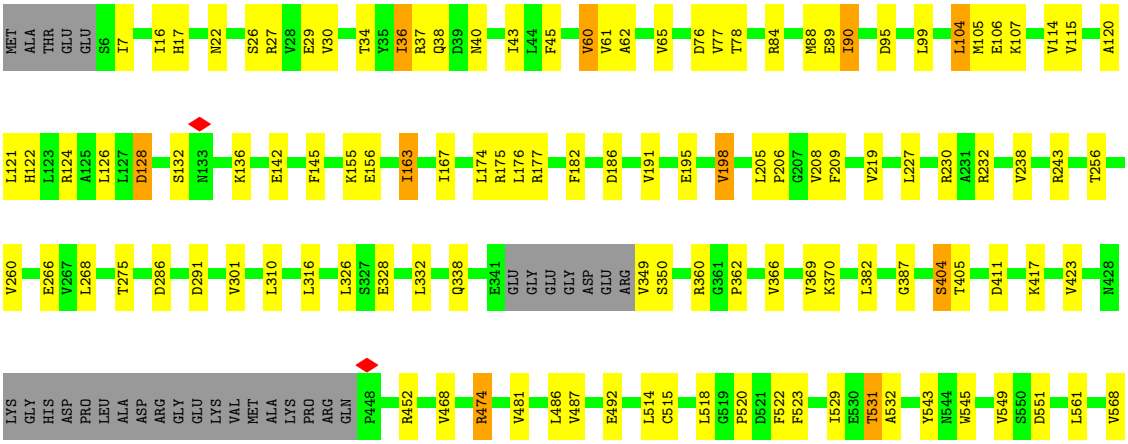
• Molecule 1: Major vault protein

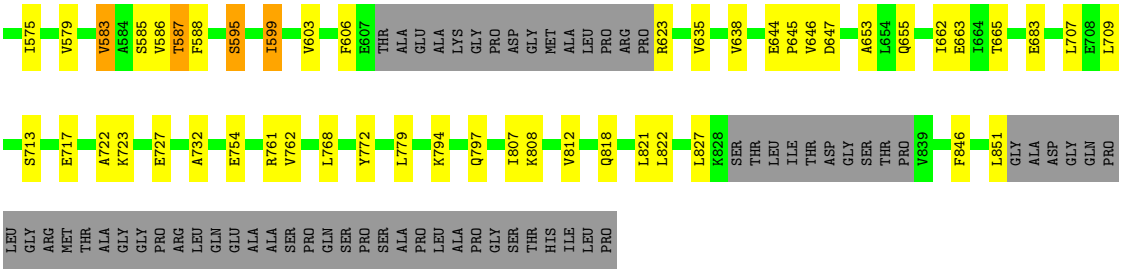
Chain P:



• Molecule 1: Major vault protein

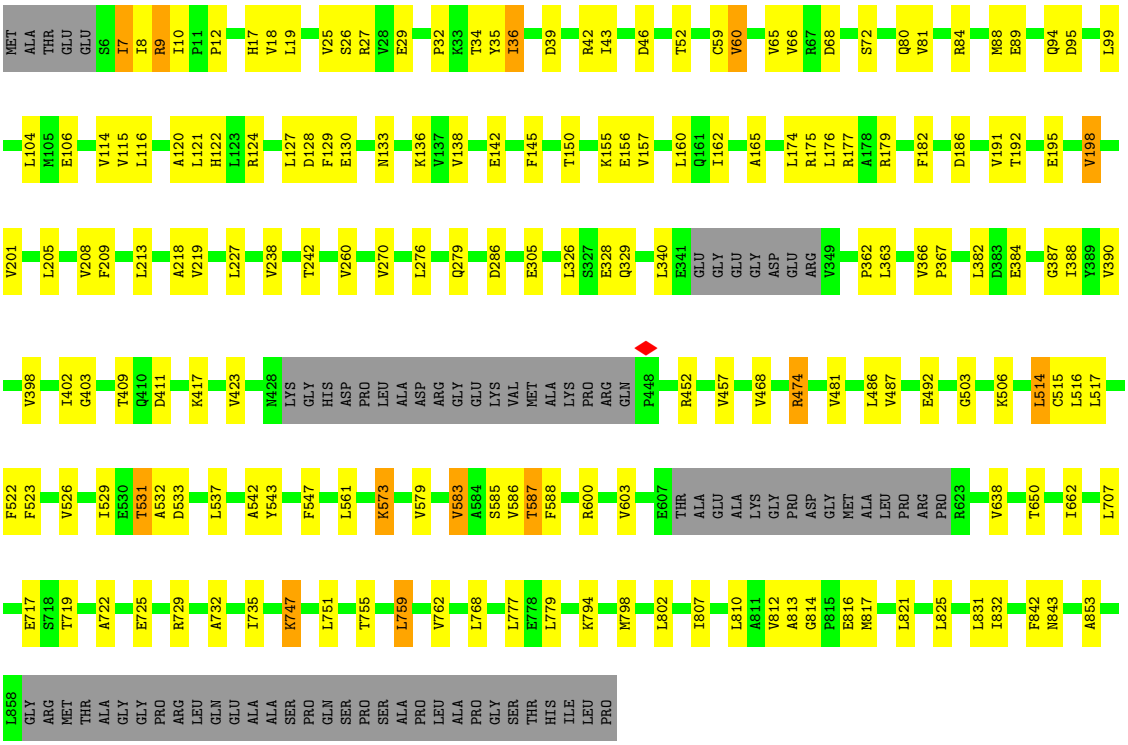
Chain Q:





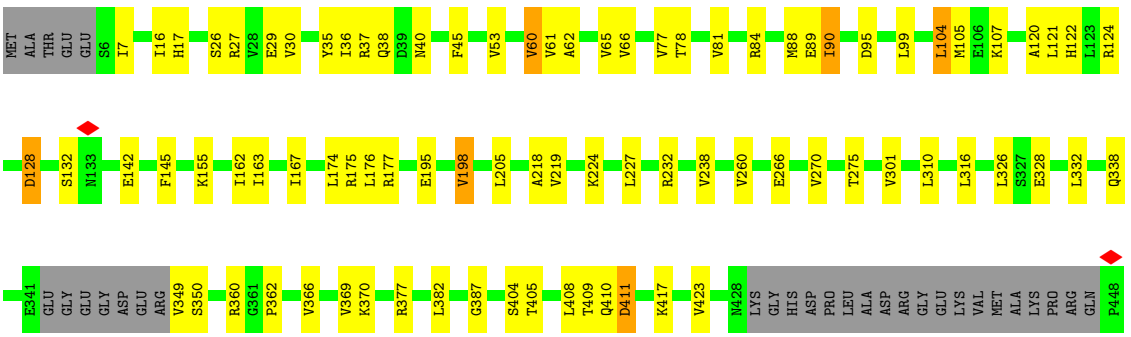
• Molecule 1: Major vault protein

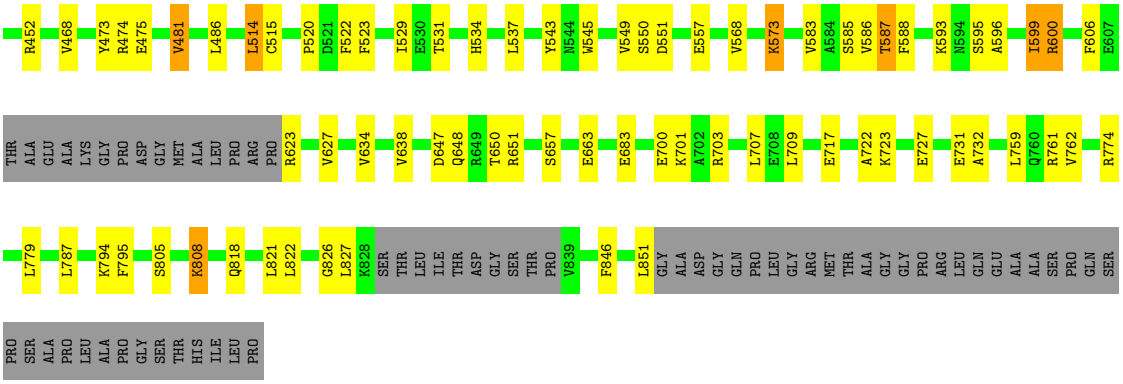
Chain R:



• Molecule 1: Major vault protein

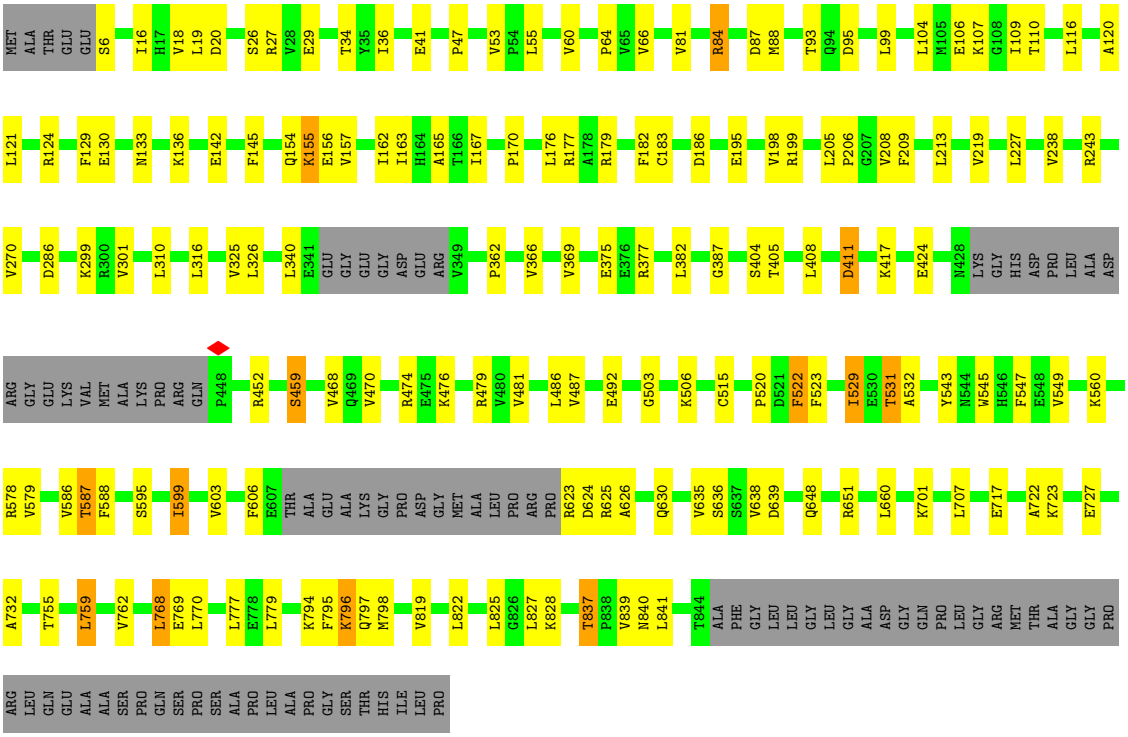
Chain S:





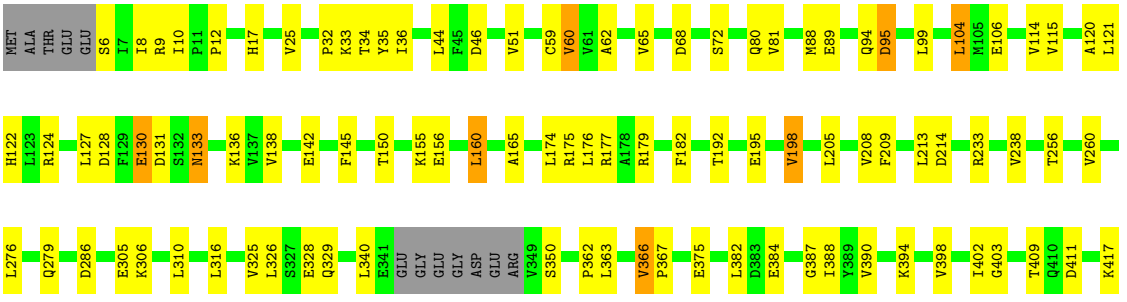
• Molecule 1: Major vault protein

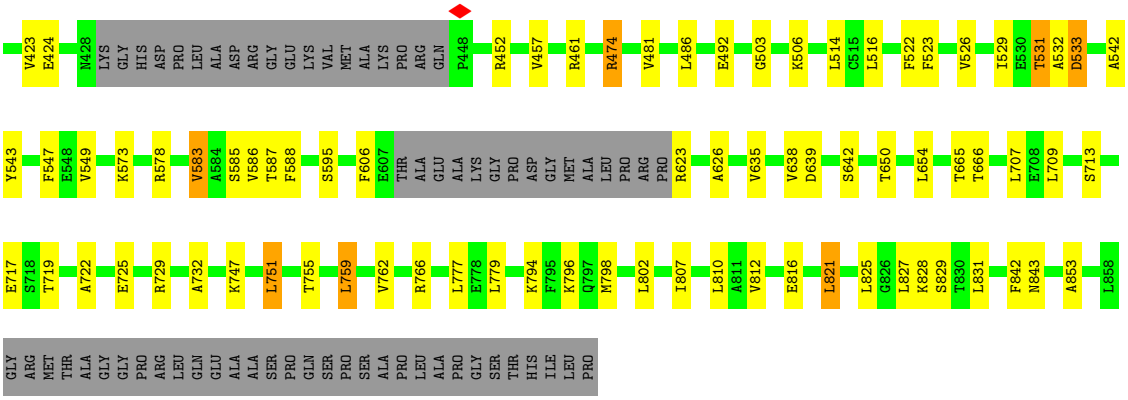
Chain T:



• Molecule 1: Major vault protein

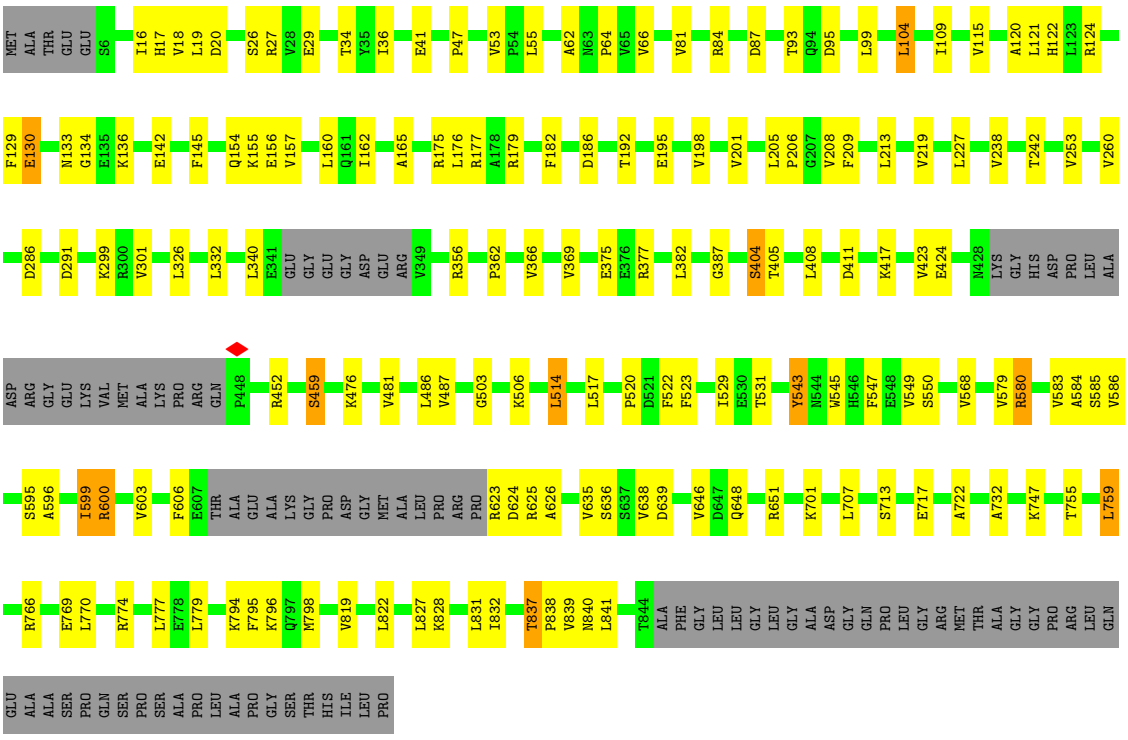
Chain U:





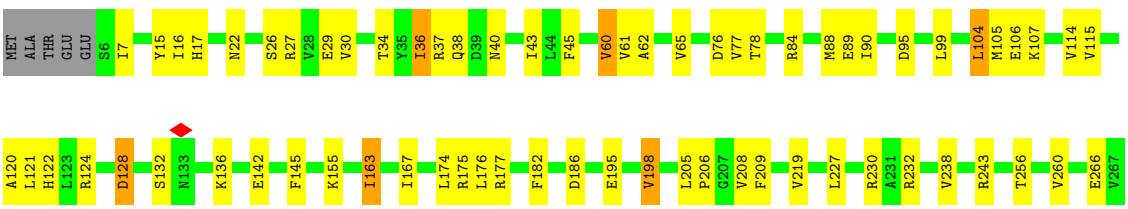
• Molecule 1: Major vault protein

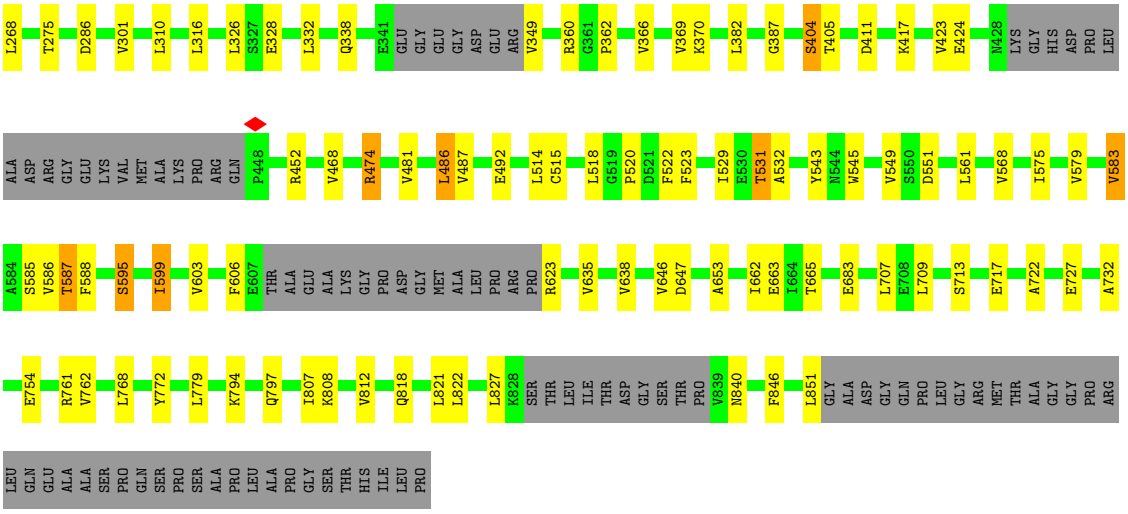
Chain V:



• Molecule 1: Major vault protein

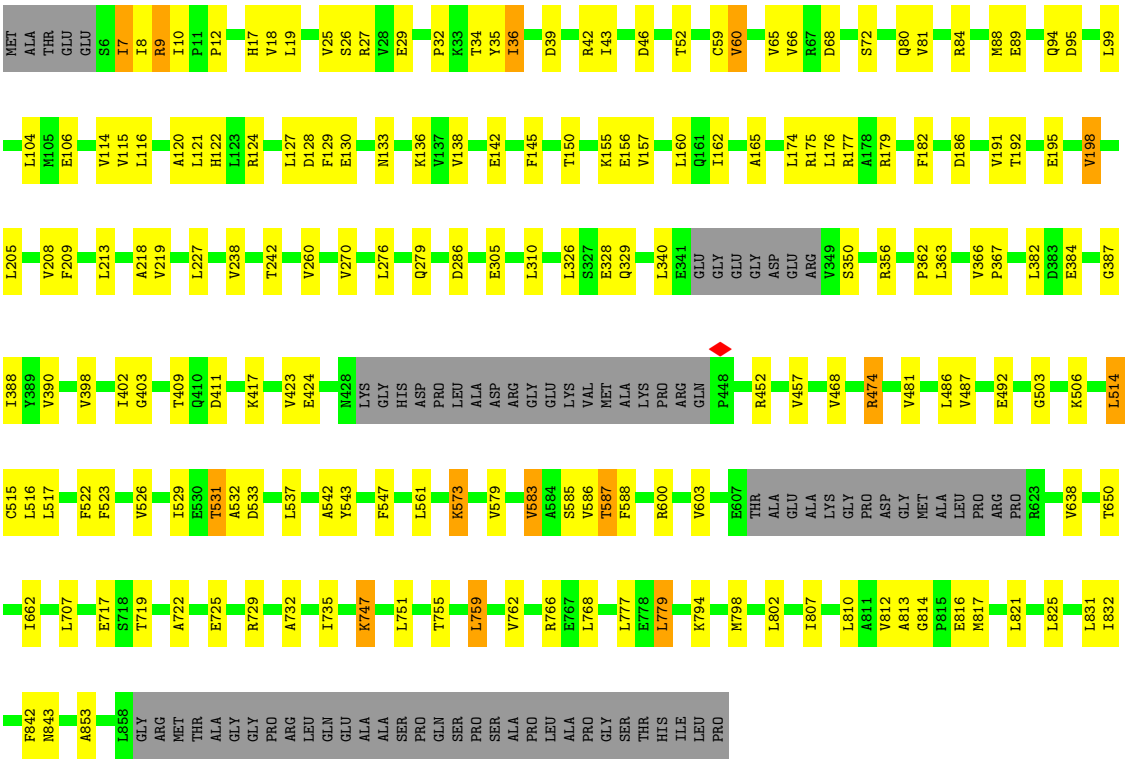
Chain W:





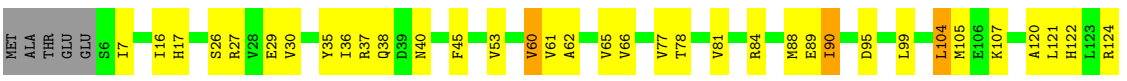
• Molecule 1: Major vault protein

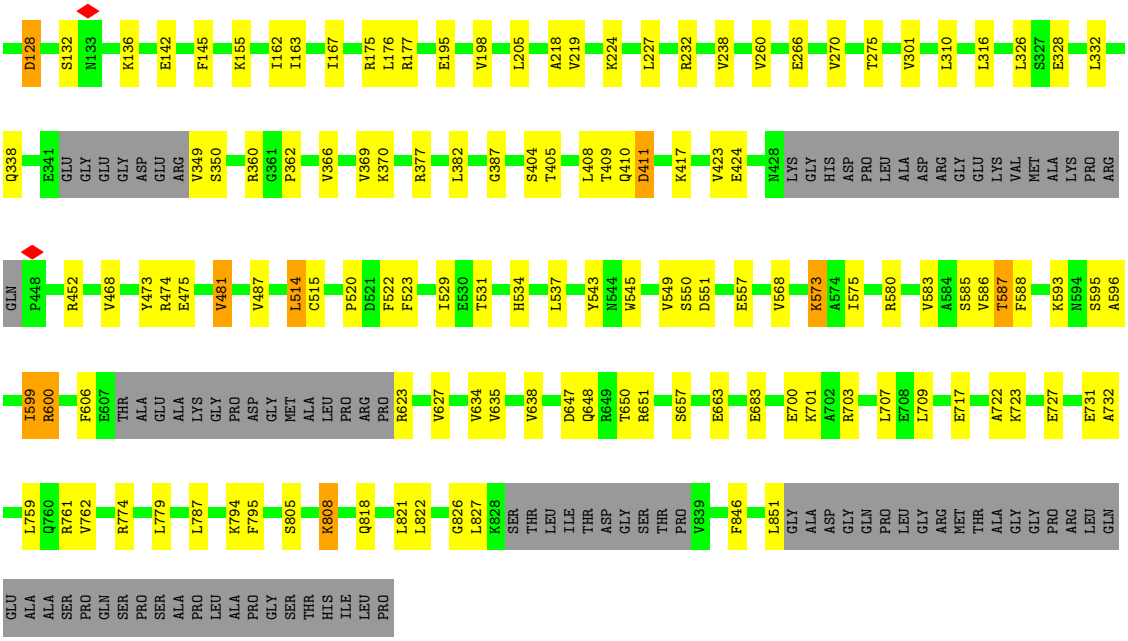
Chain X:



• Molecule 1: Major vault protein

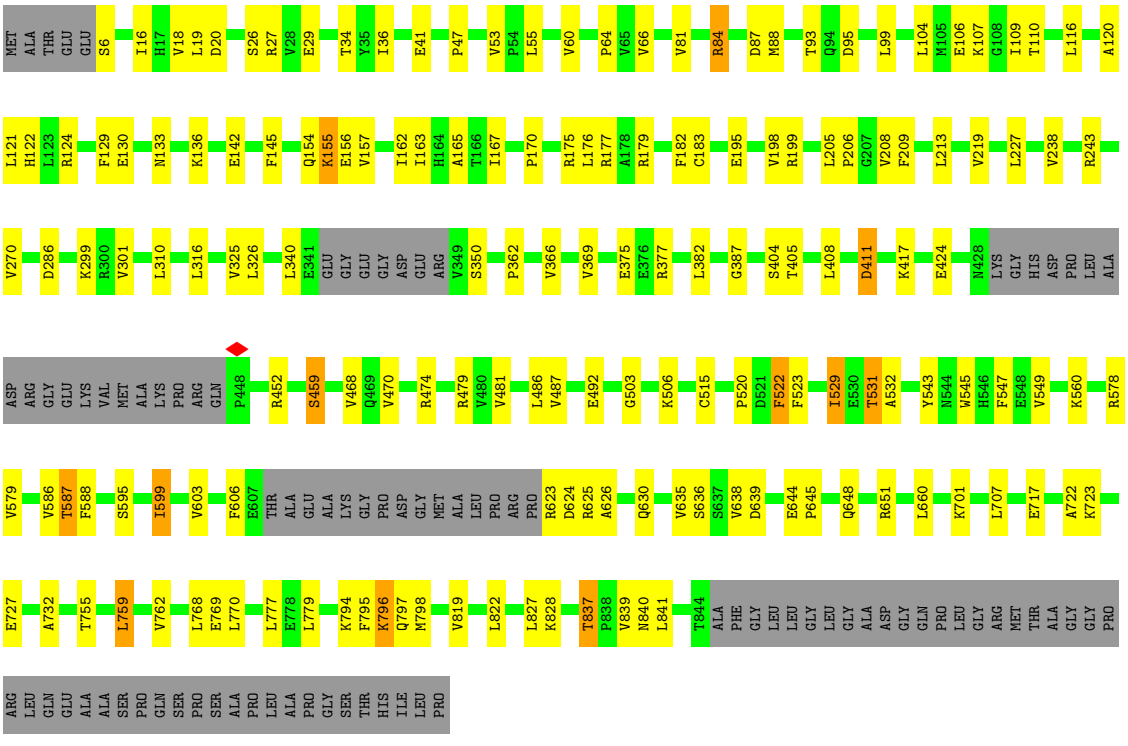
Chain Y:





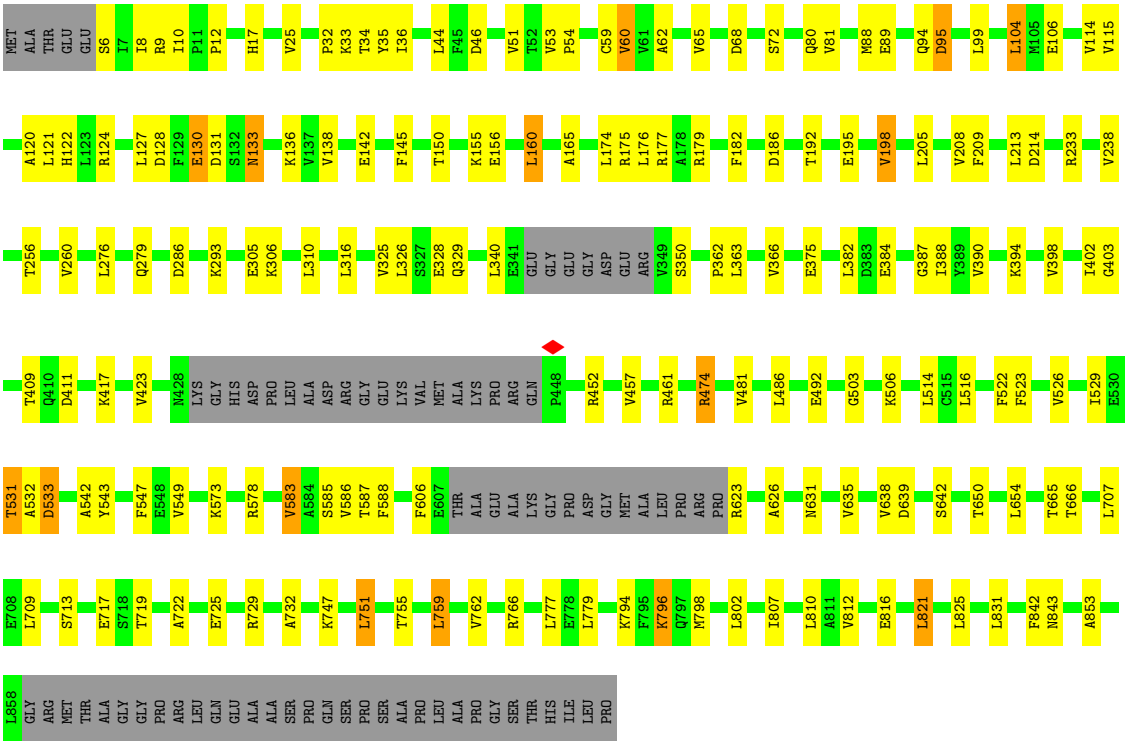
• Molecule 1: Major vault protein

Chain Z:



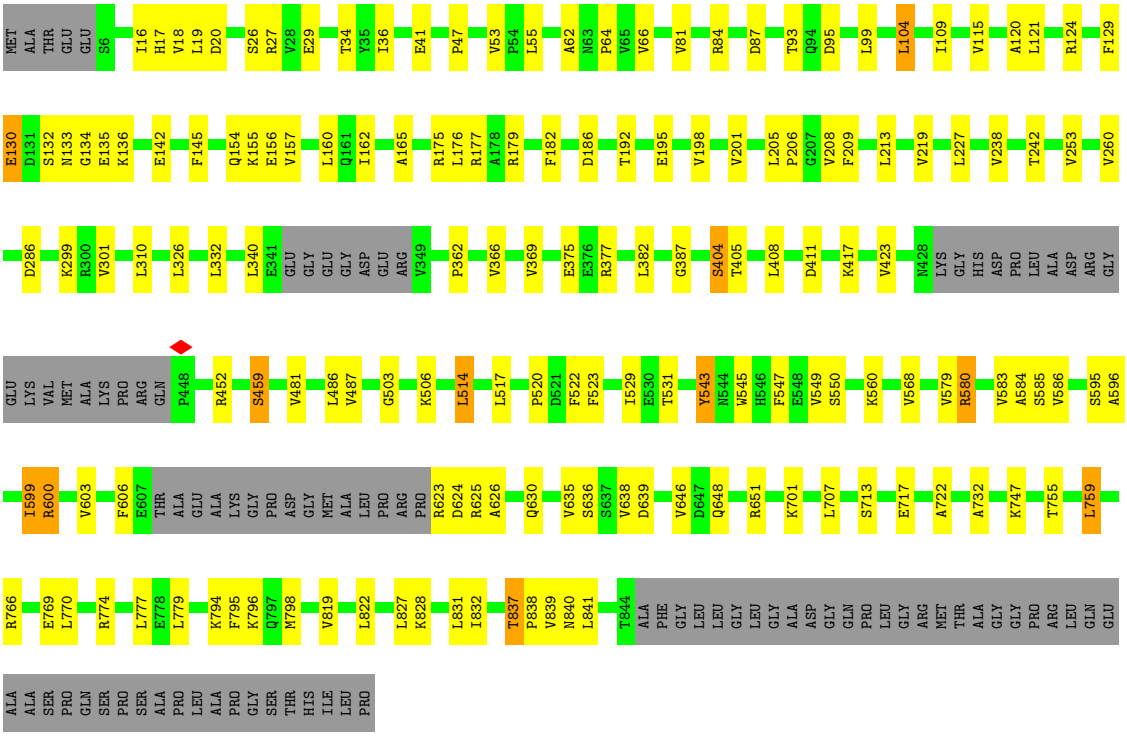
• Molecule 1: Major vault protein

Chain a:



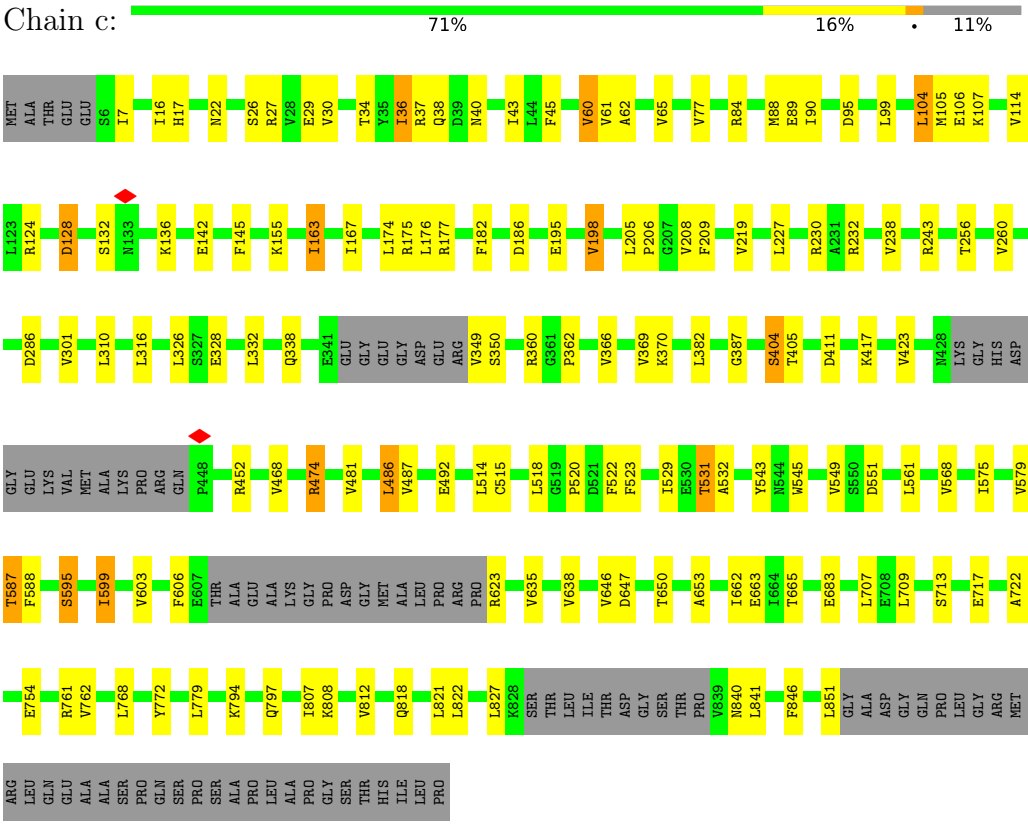
• Molecule 1: Major vault protein

Chain b:



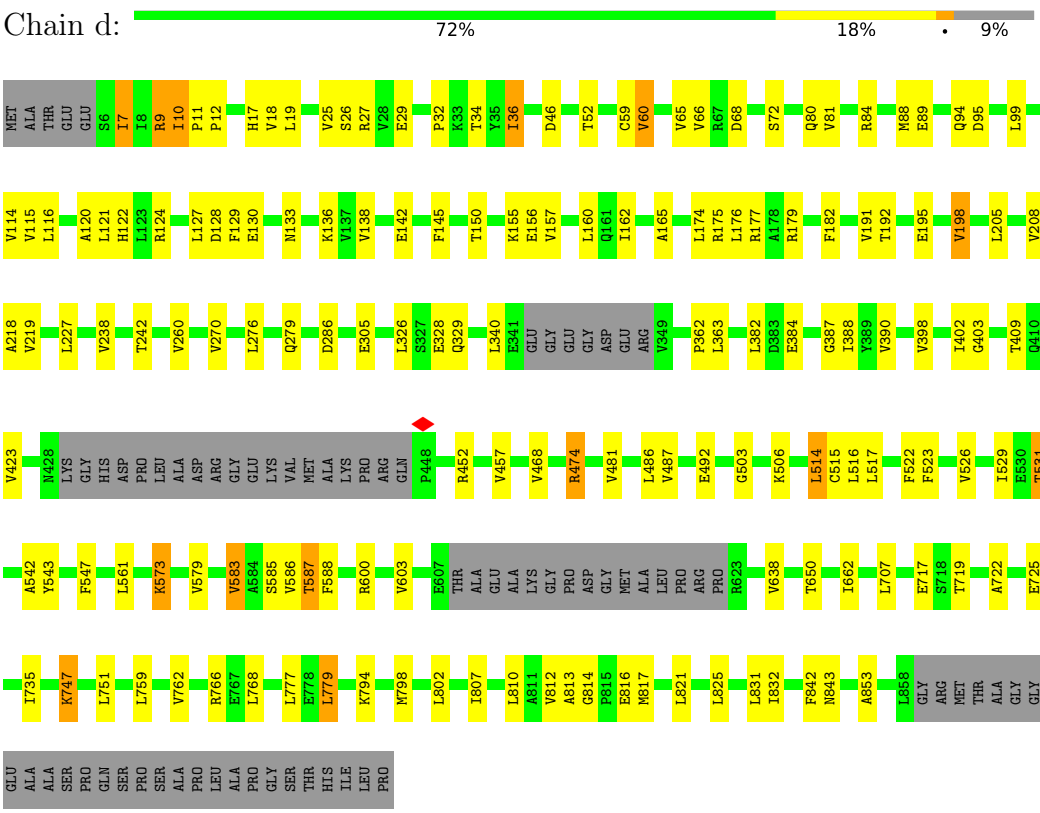
• Molecule 1: Major vault protein

Chain c:



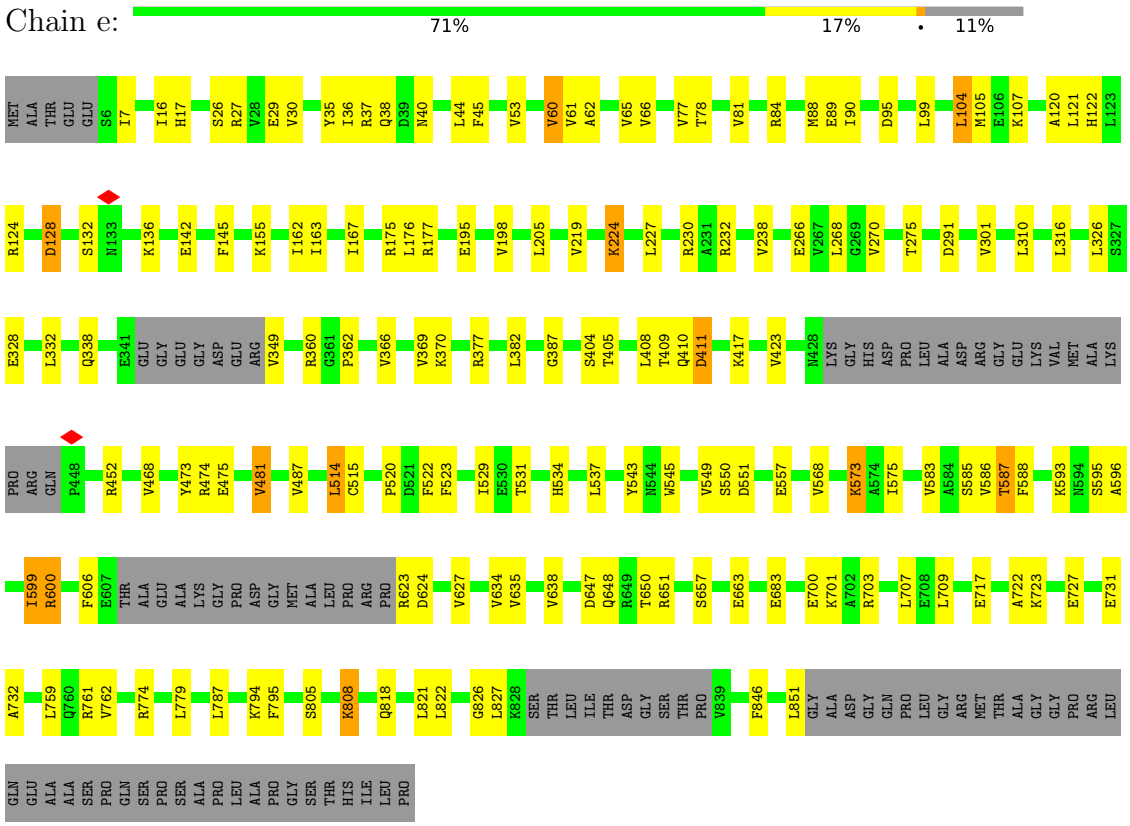
• Molecule 1: Major vault protein

Chain d:



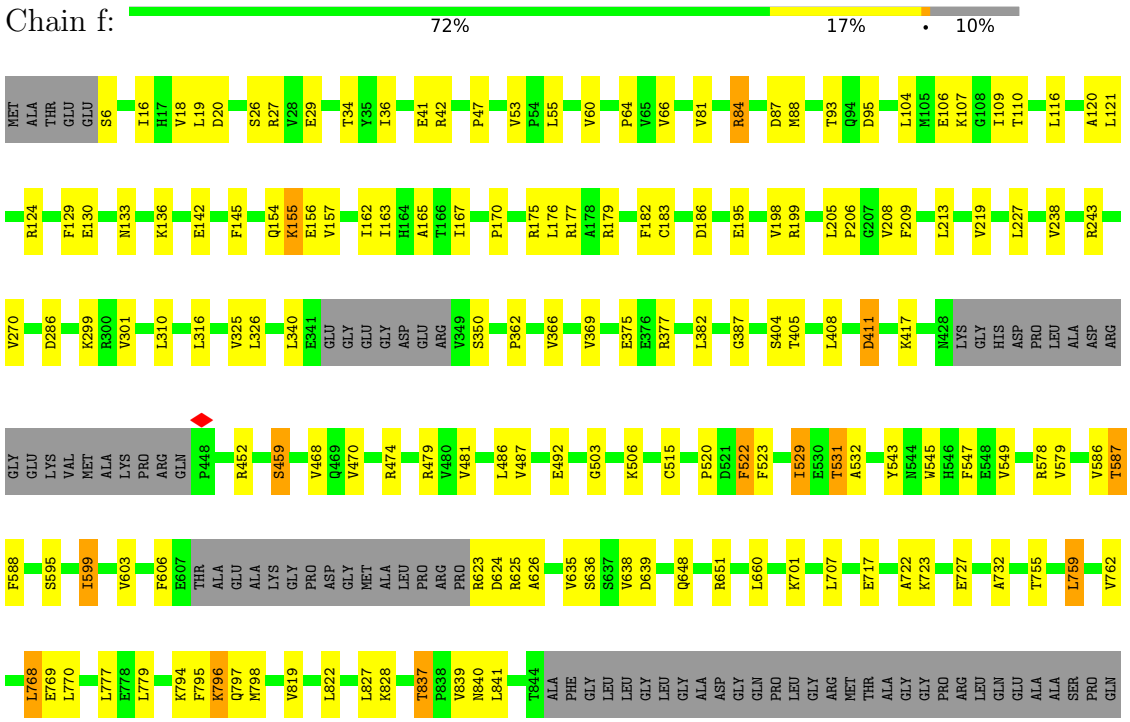
• Molecule 1: Major vault protein

Chain e:



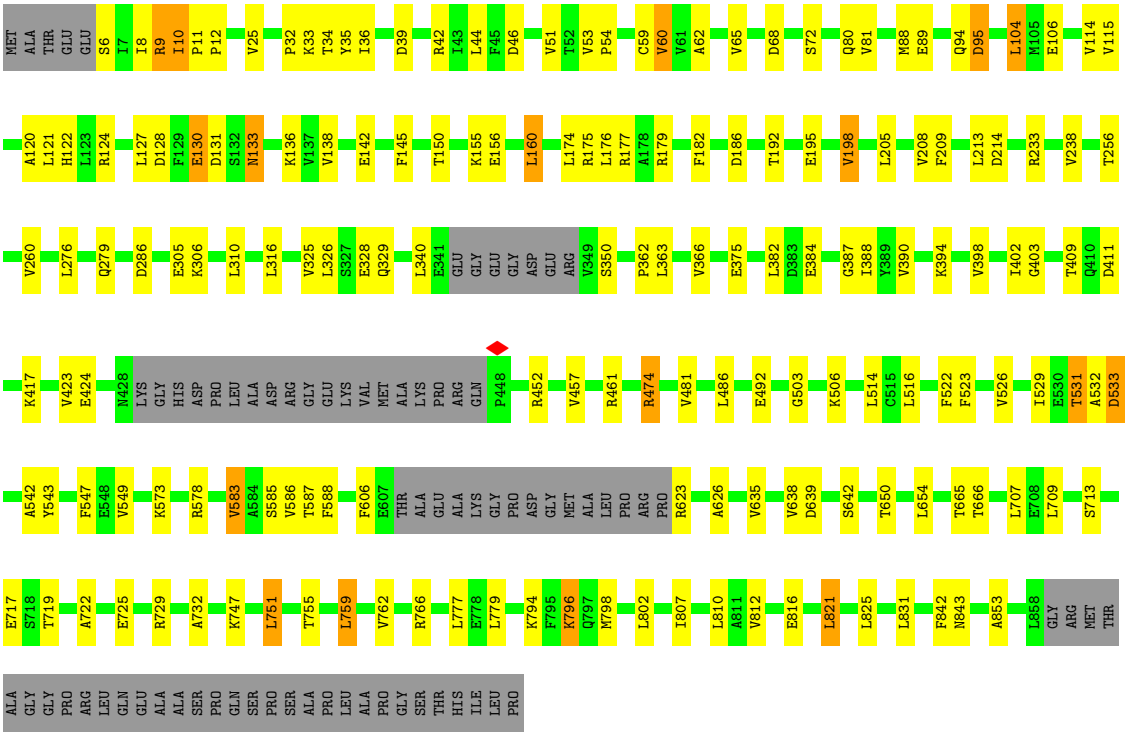
• Molecule 1: Major vault protein

Chain f:



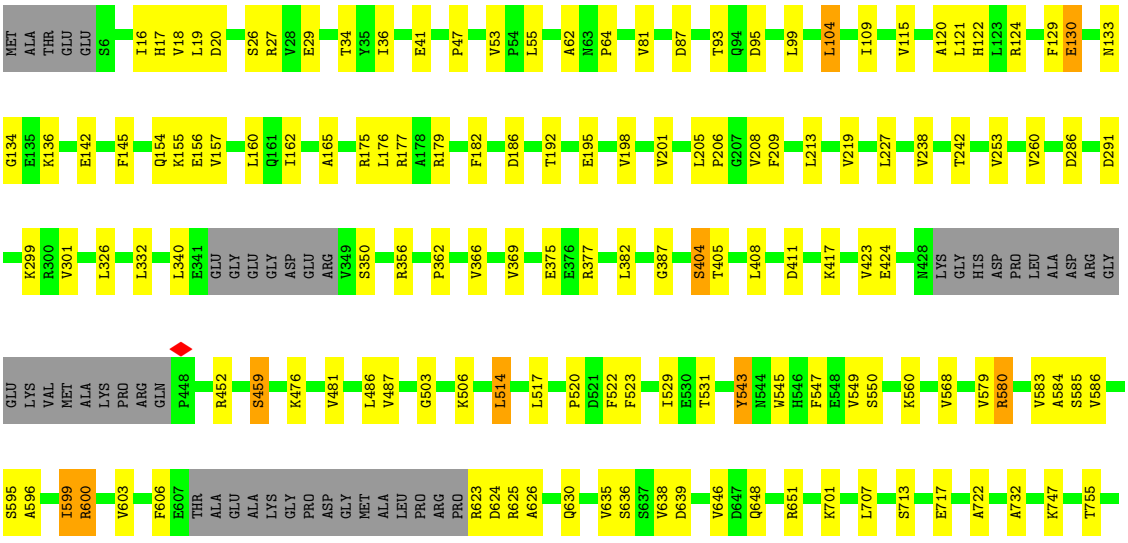
• Molecule 1: Major vault protein

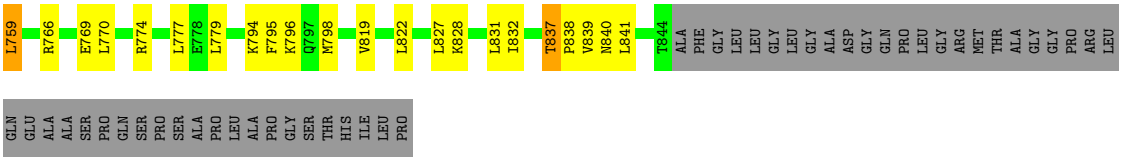
Chain g:



• Molecule 1: Major vault protein

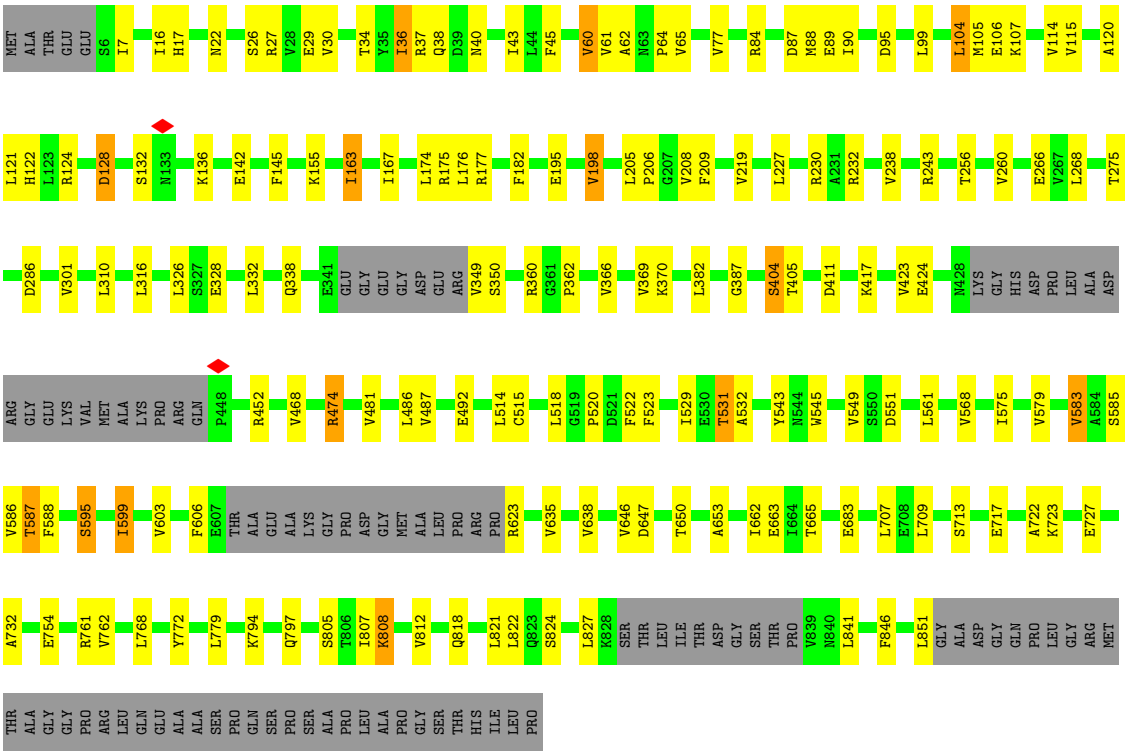
Chain h:





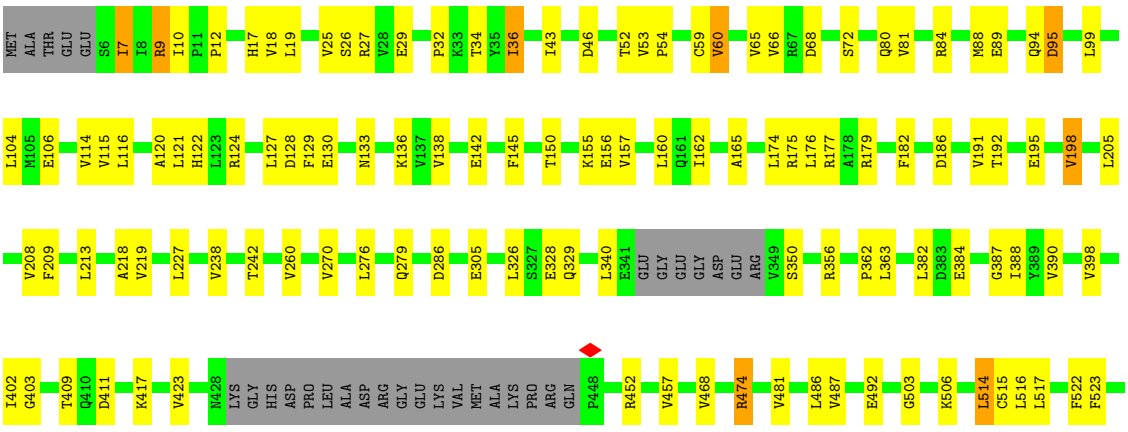
• Molecule 1: Major vault protein

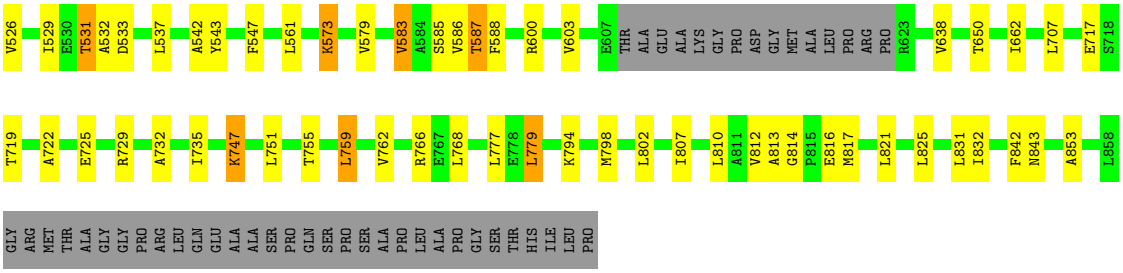
Chain i:



• Molecule 1: Major vault protein

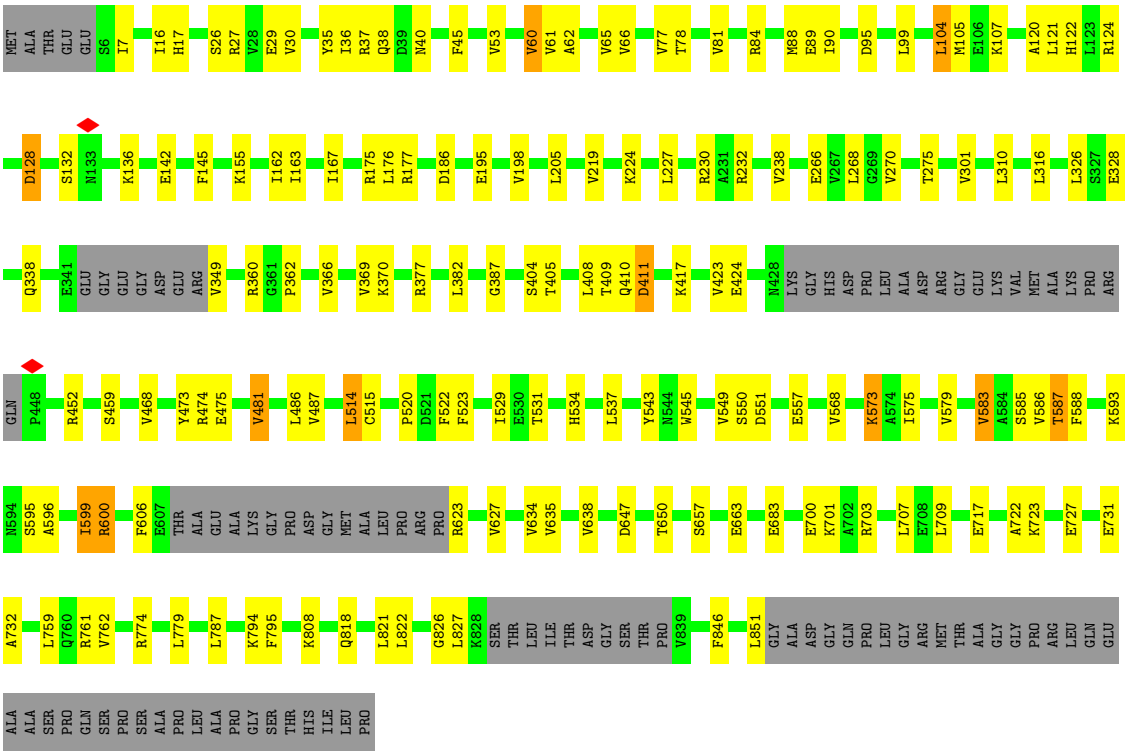
Chain j:





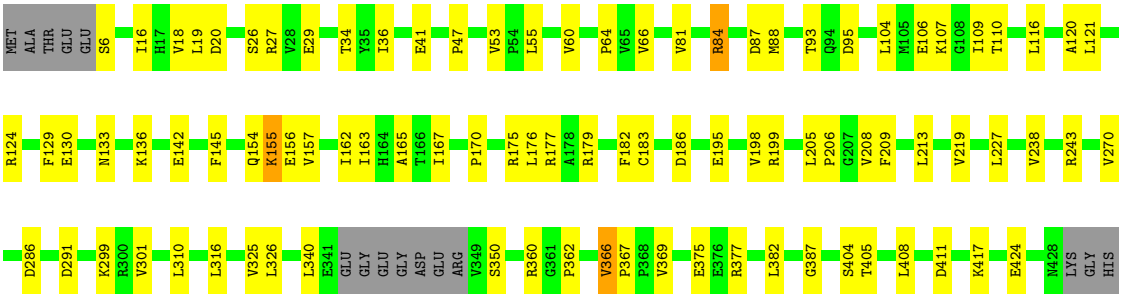
• Molecule 1: Major vault protein

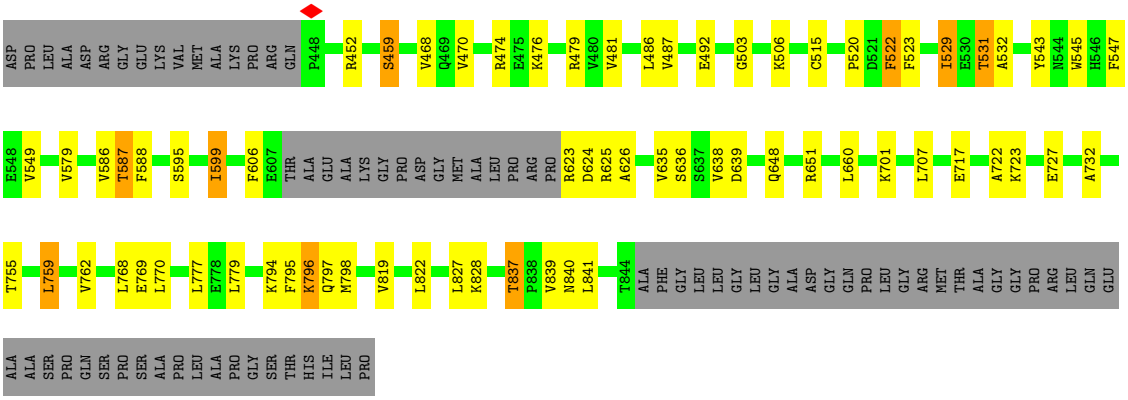
Chain k:



• Molecule 1: Major vault protein

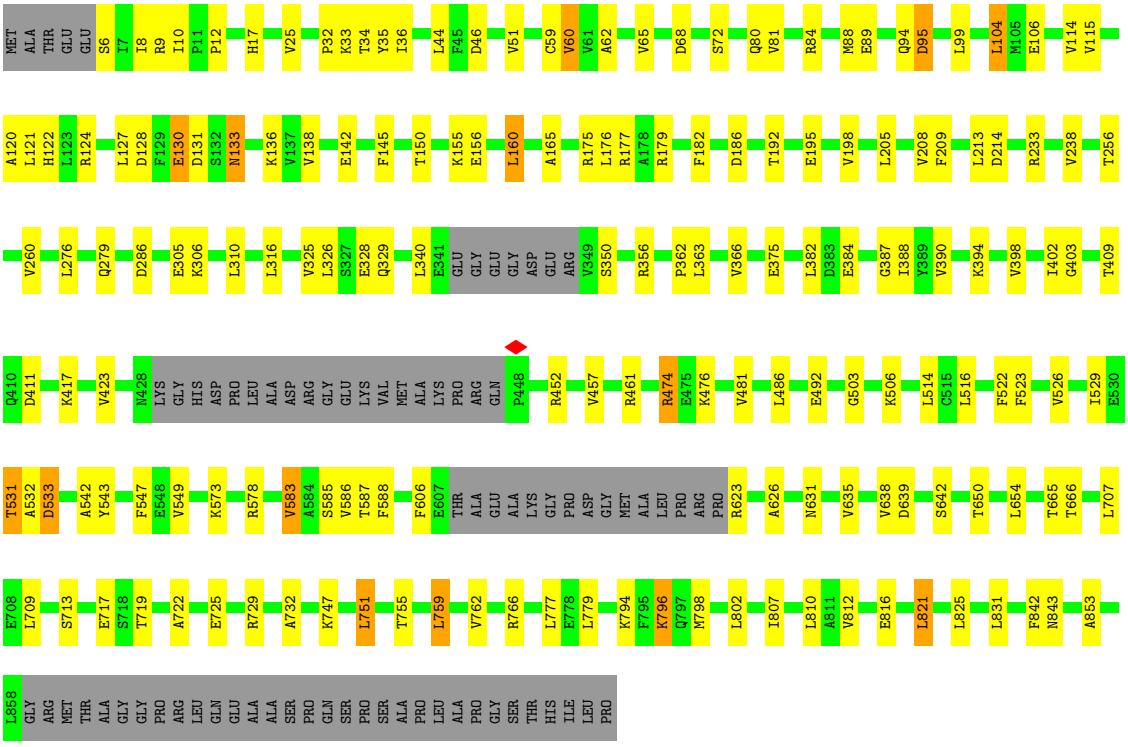
Chain l:





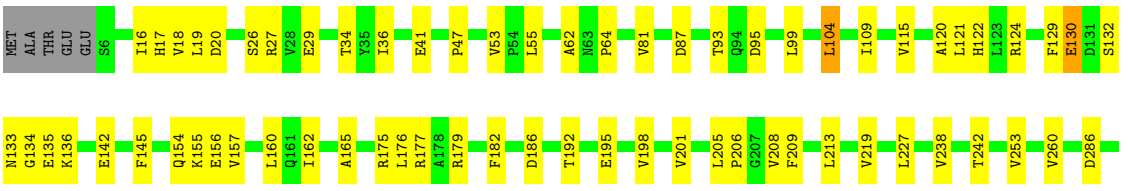
• Molecule 1: Major vault protein

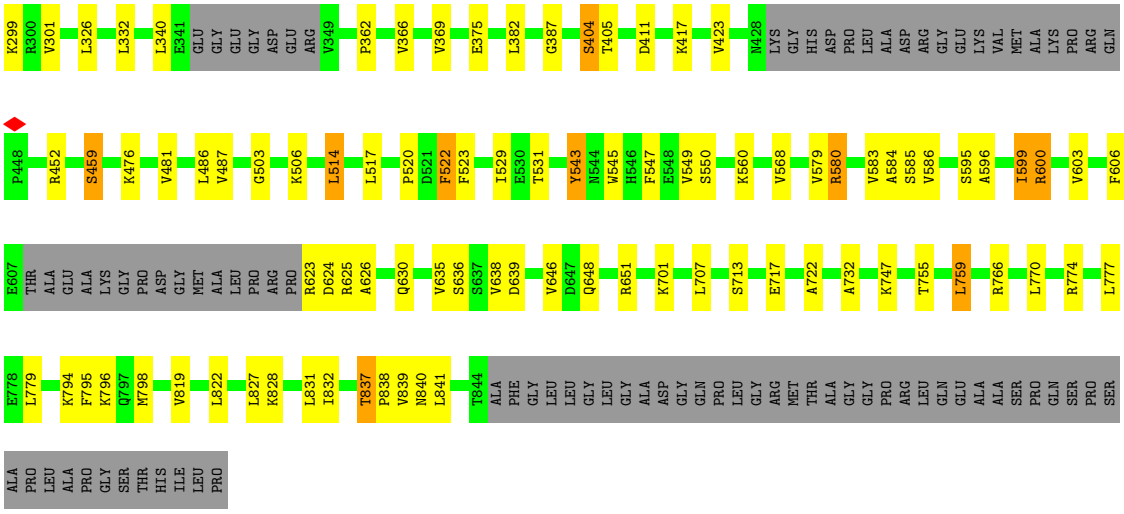
Chain m:



• Molecule 1: Major vault protein

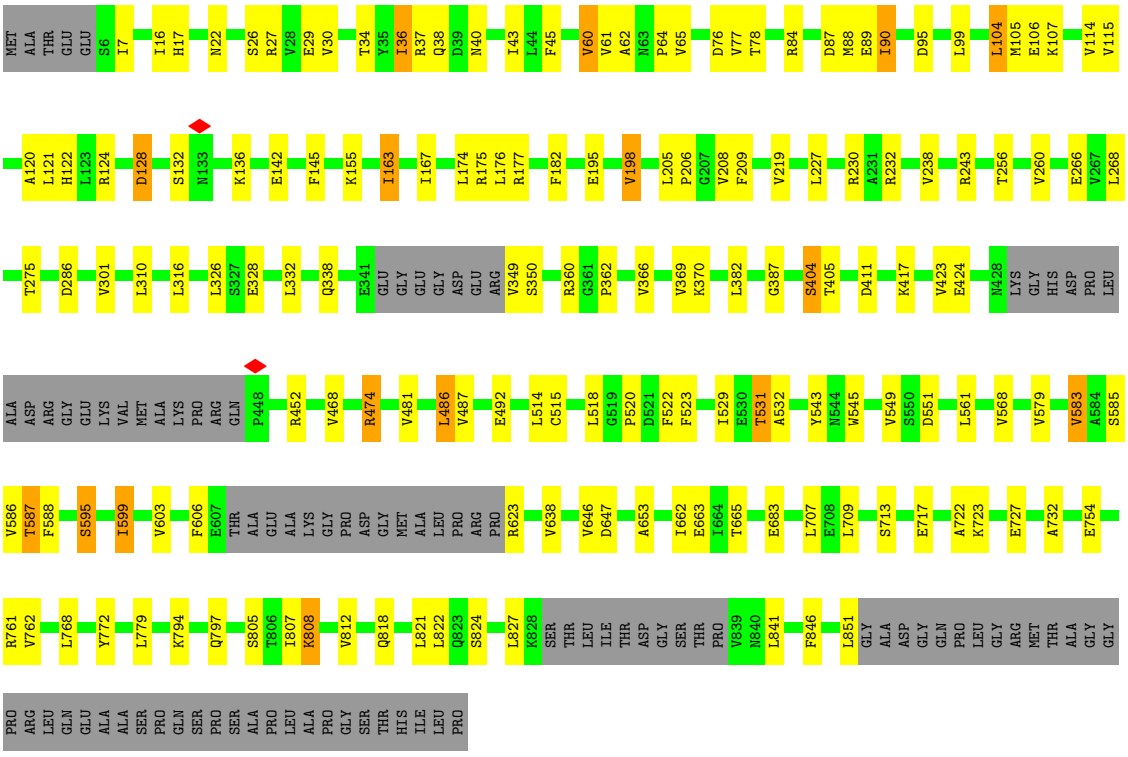
Chain n:





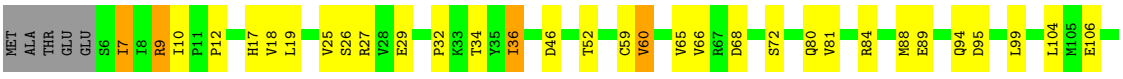
• Molecule 1: Major vault protein

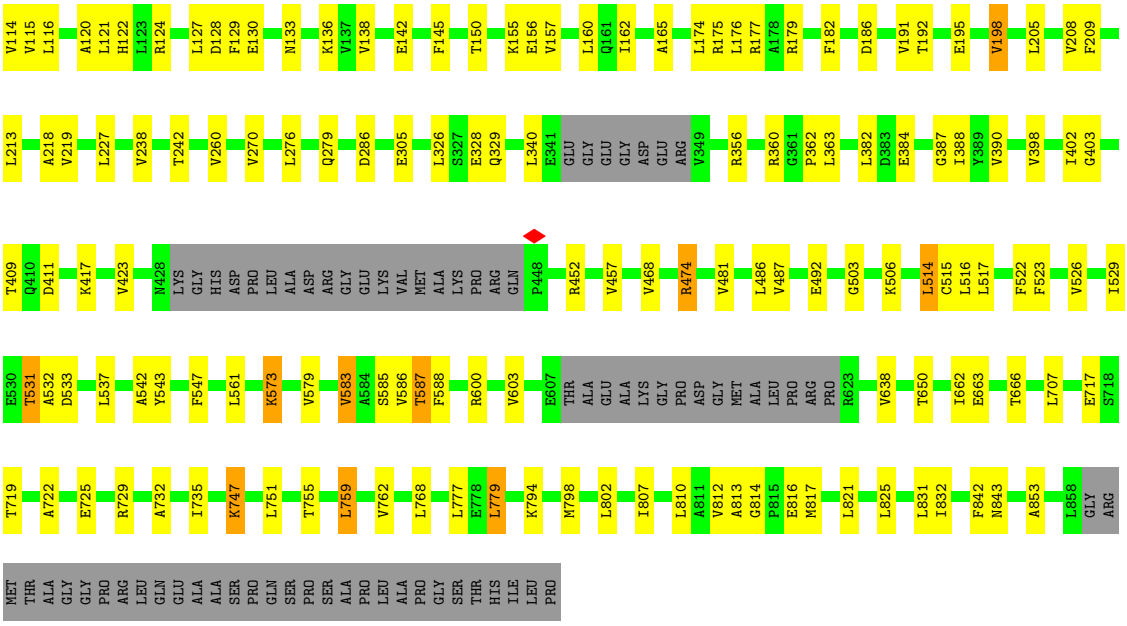
Chain o:



• Molecule 1: Major vault protein

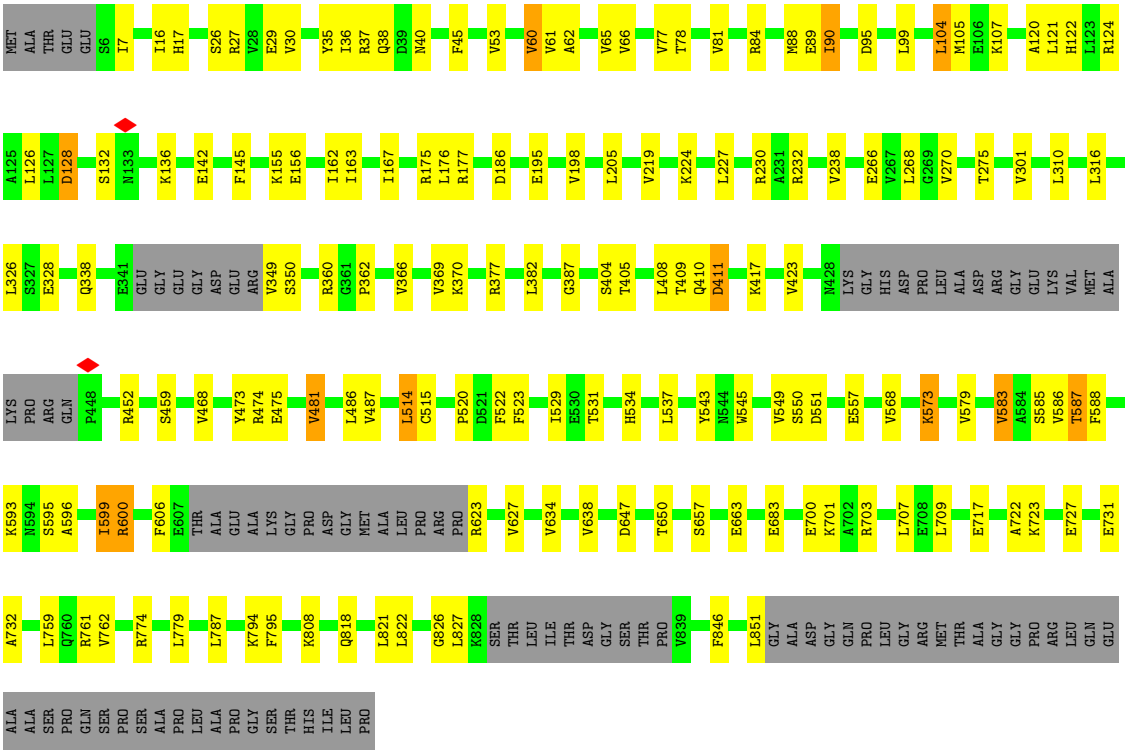
Chain p:





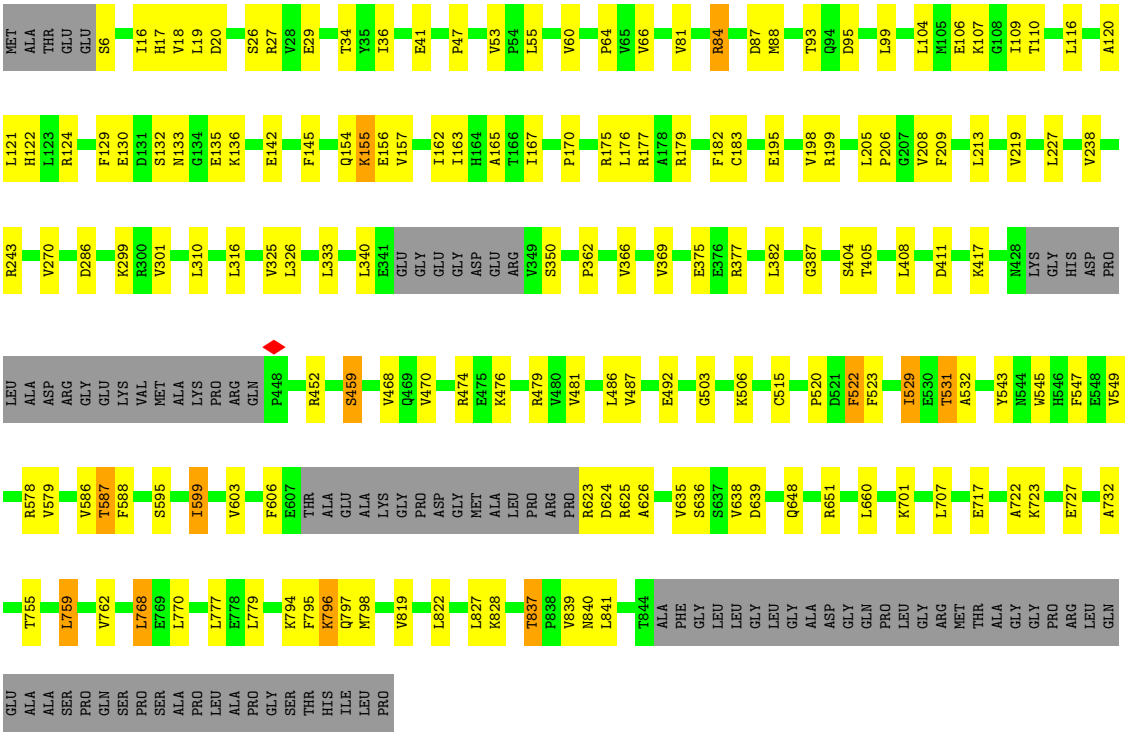
• Molecule 1: Major vault protein

Chain q:



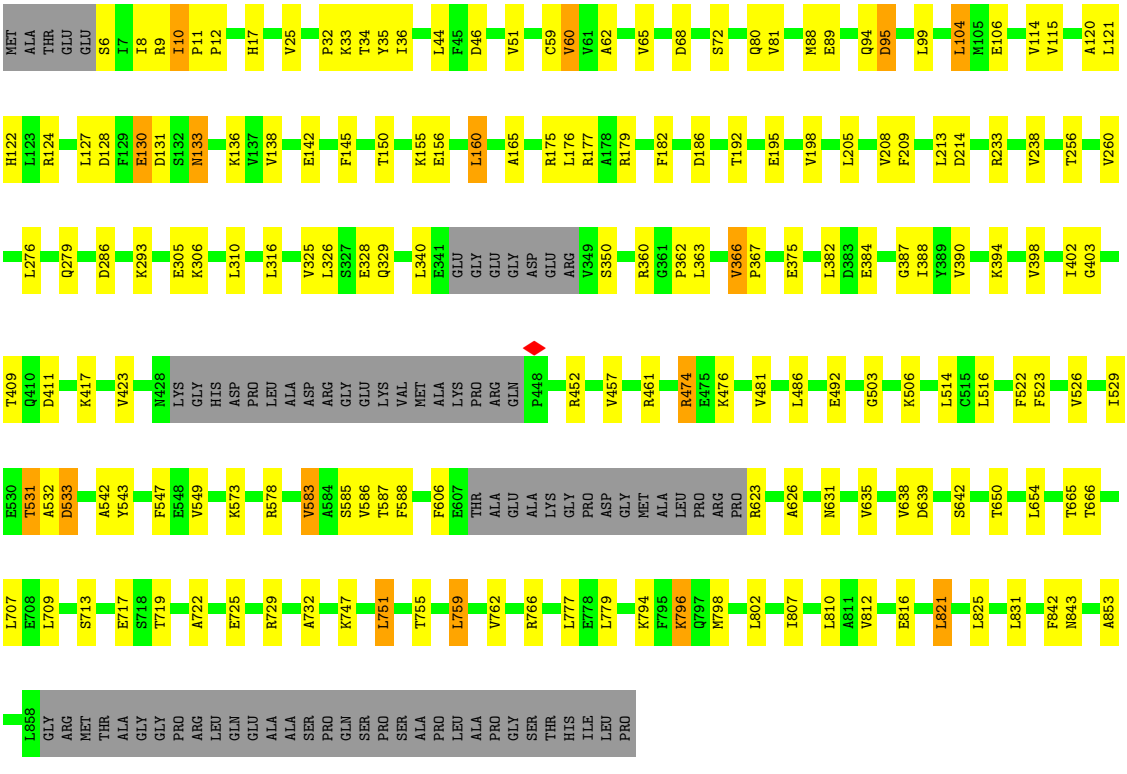
• Molecule 1: Major vault protein

Chain r:



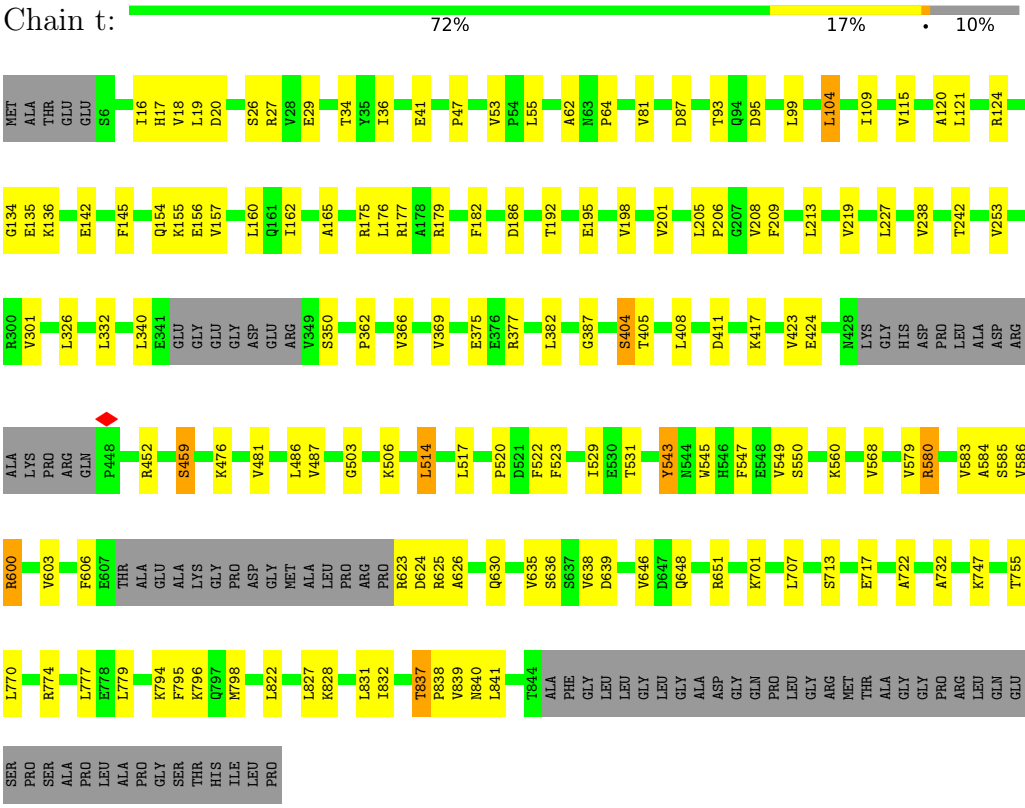
• Molecule 1: Major vault protein

Chain s:



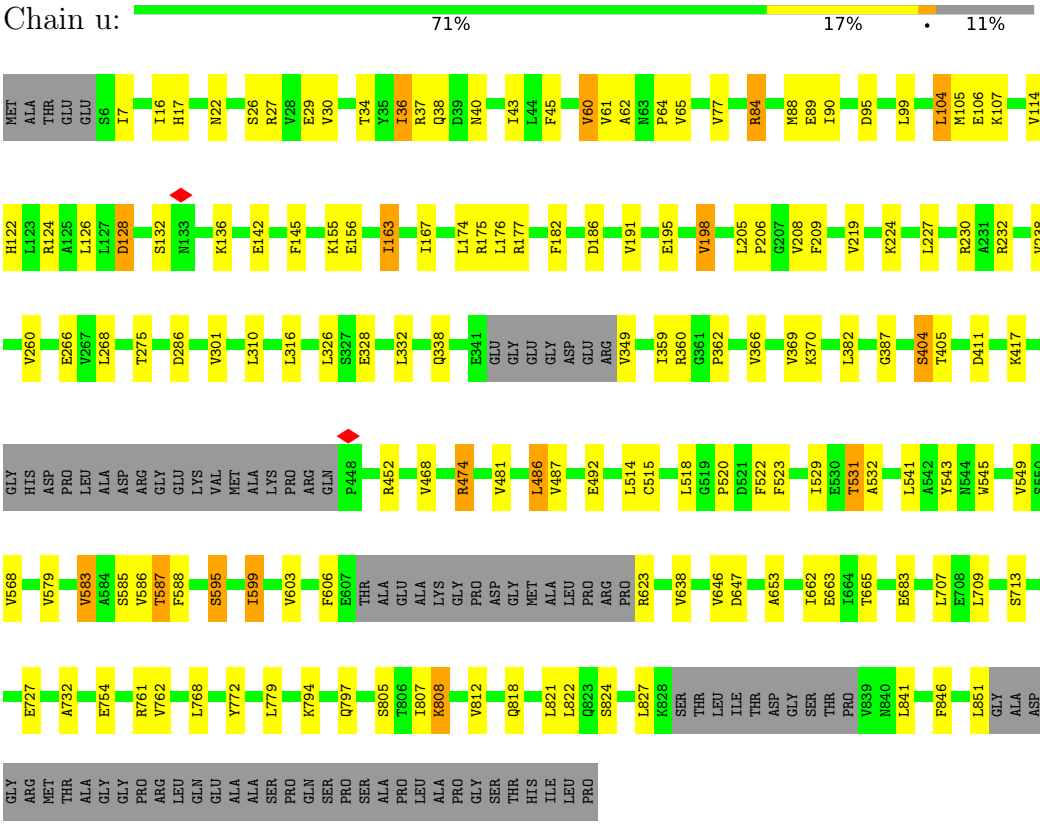
• Molecule 1: Major vault protein

Chain t:



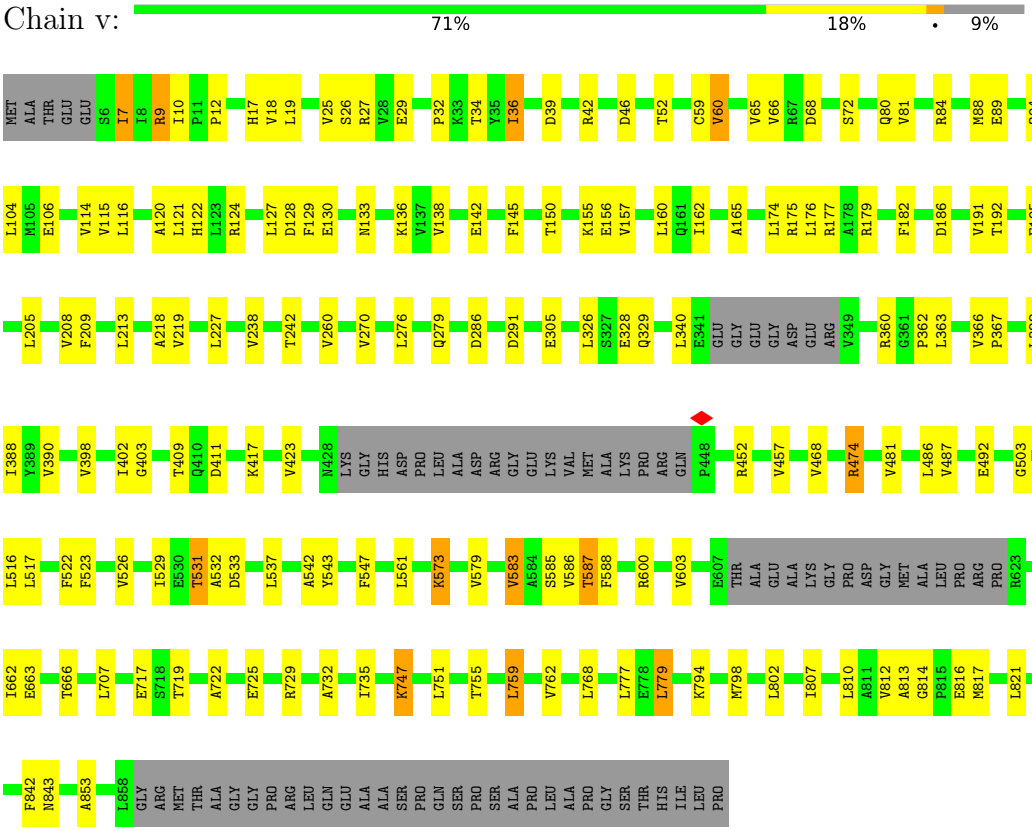
• Molecule 1: Major vault protein

Chain u:



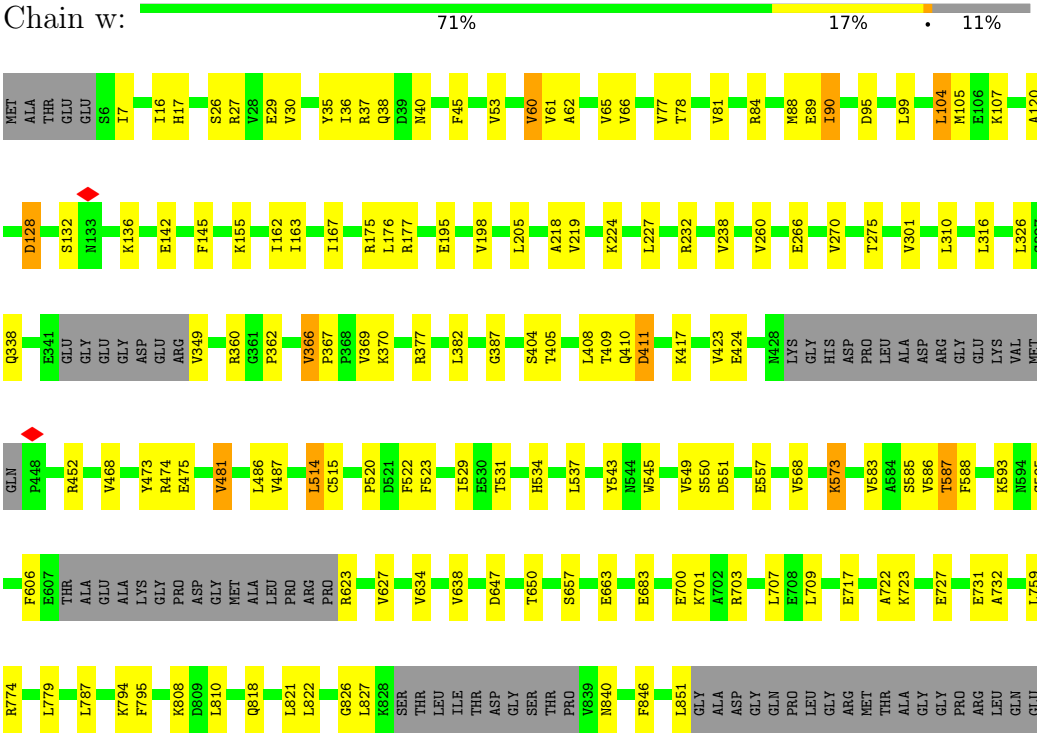
• Molecule 1: Major vault protein

Chain v:



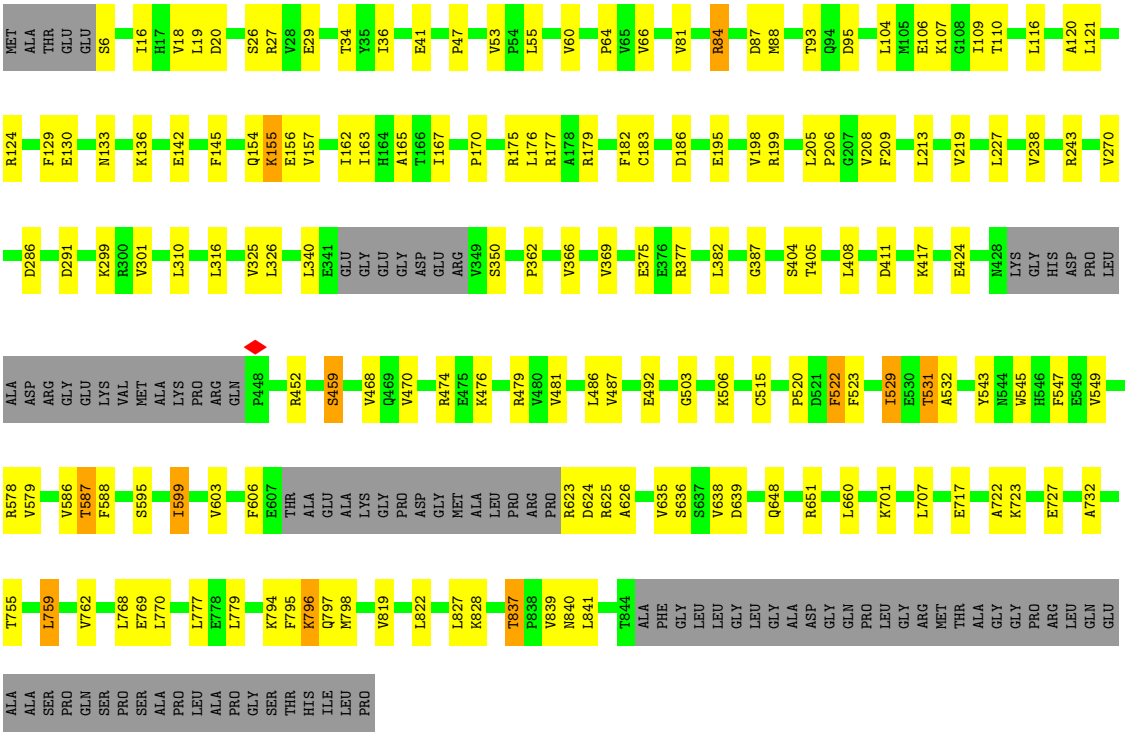
• Molecule 1: Major vault protein

Chain w:



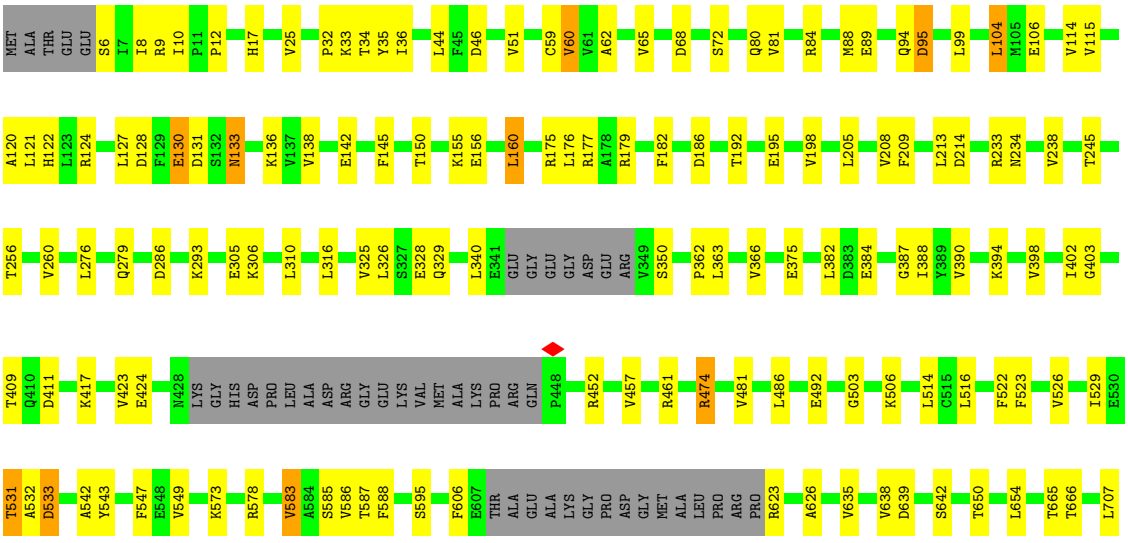
• Molecule 1: Major vault protein

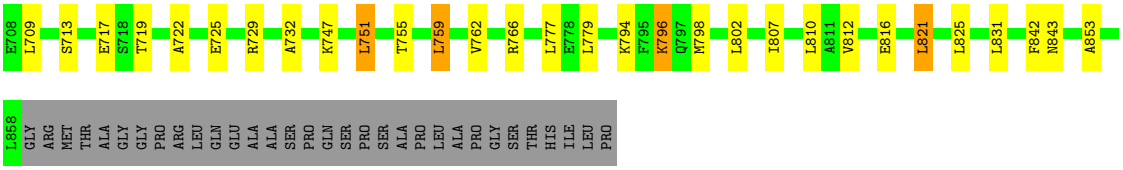
Chain x:



• Molecule 1: Major vault protein

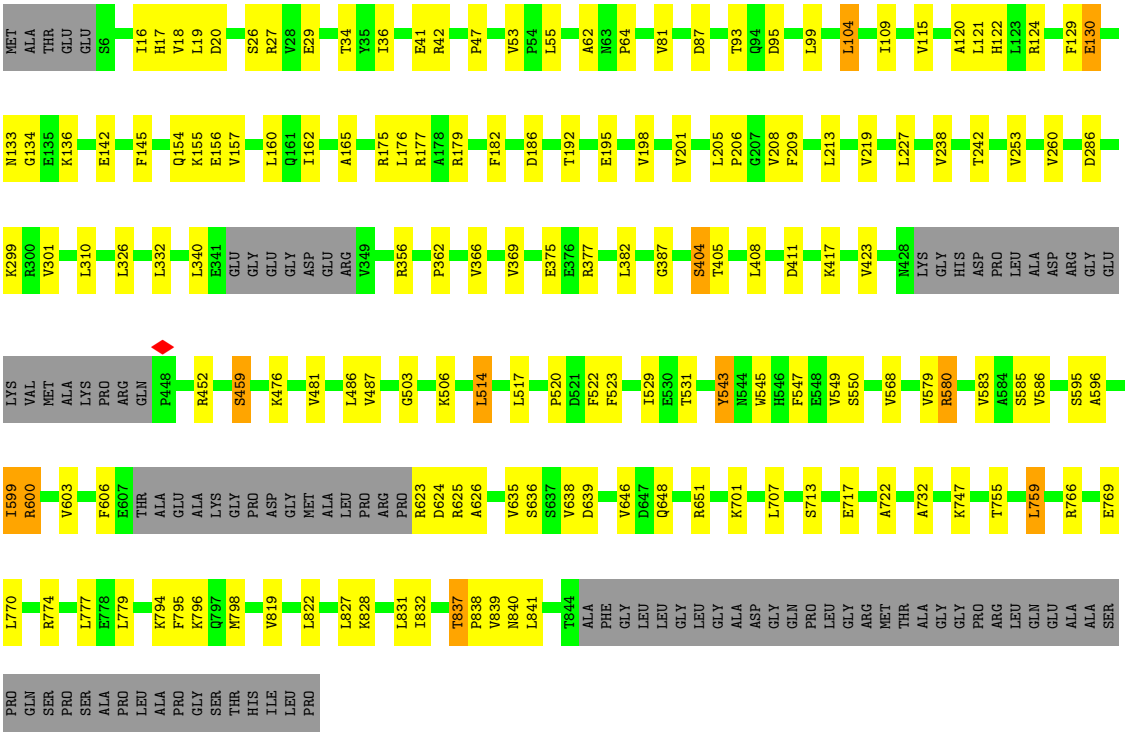
Chain y:





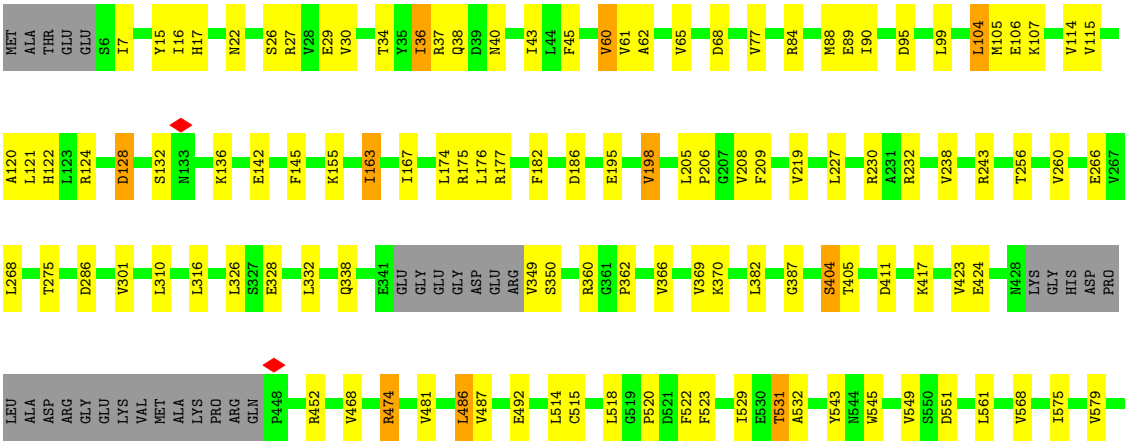
• Molecule 1: Major vault protein

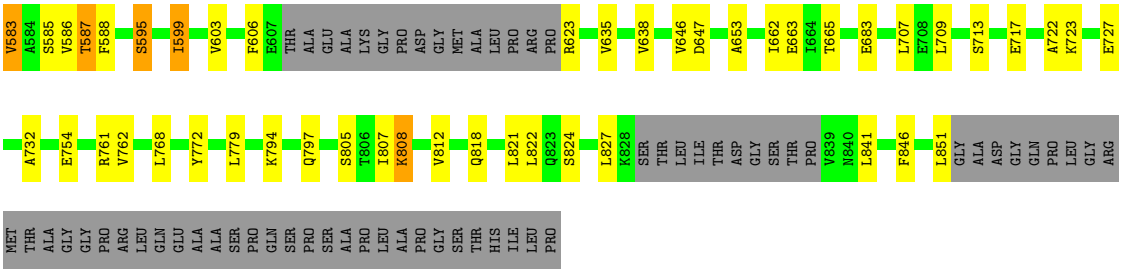
Chain z:



• Molecule 1: Major vault protein

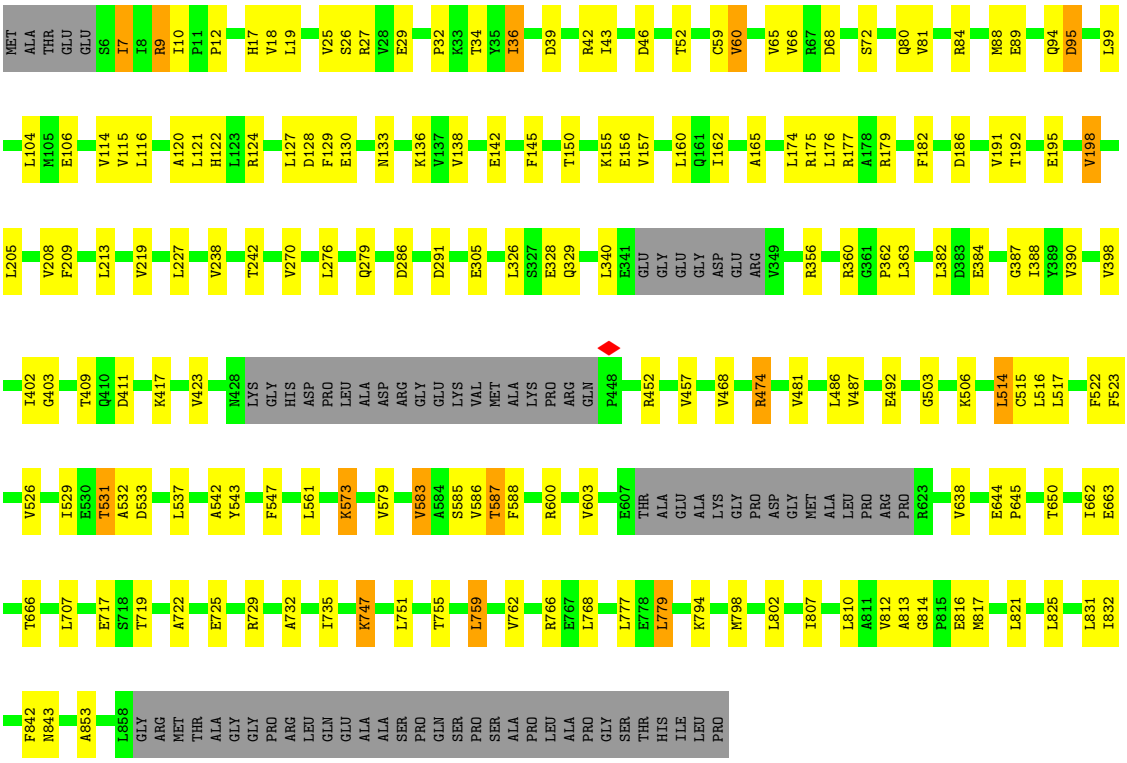
Chain 0:





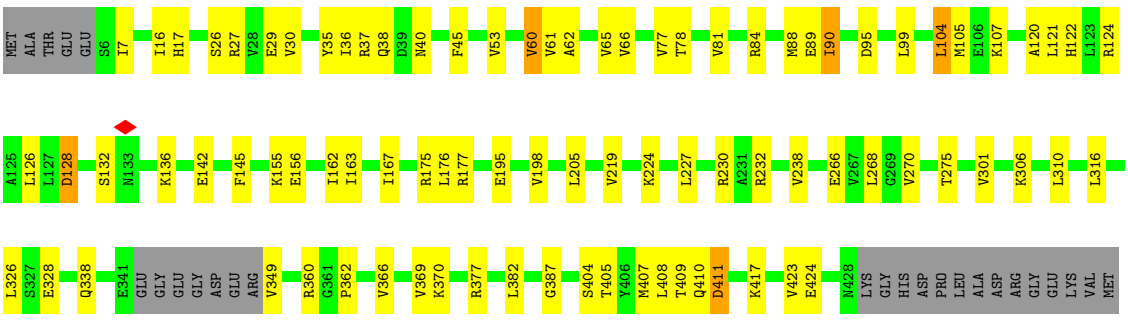
• Molecule 1: Major vault protein

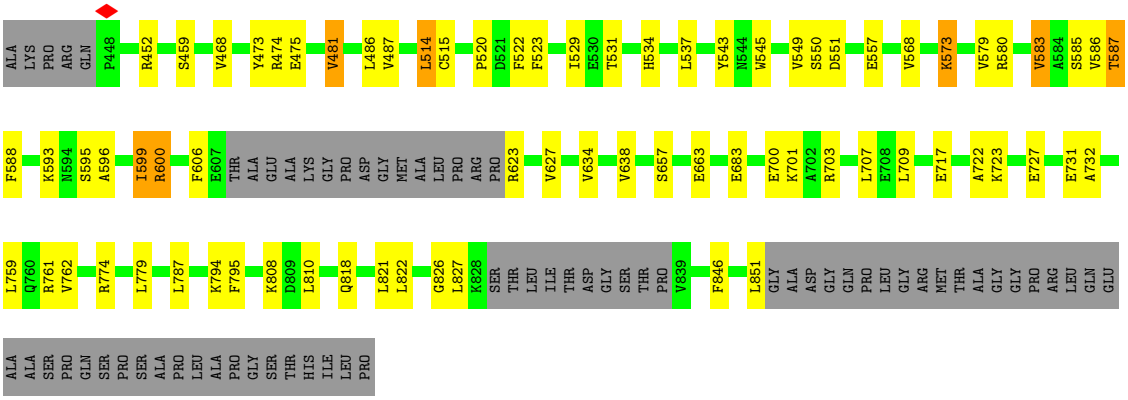
Chain 1:



• Molecule 1: Major vault protein

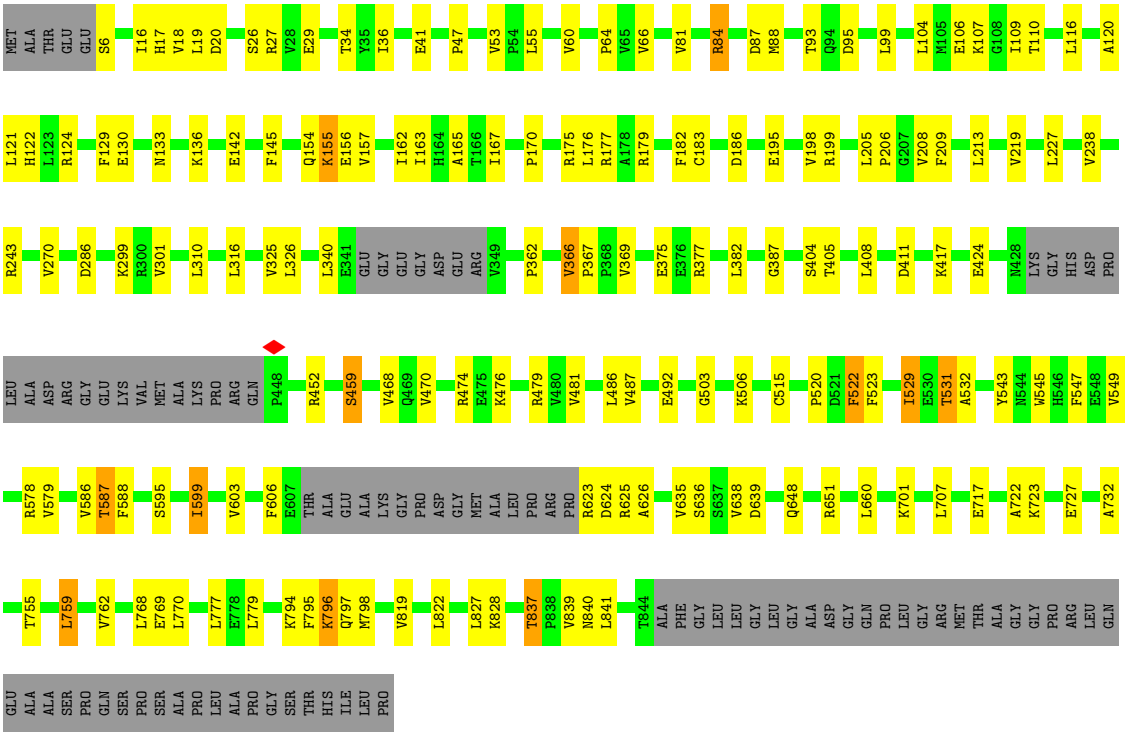
Chain 2:





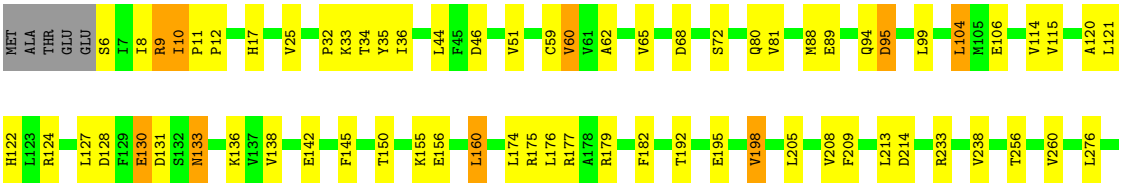
• Molecule 1: Major vault protein

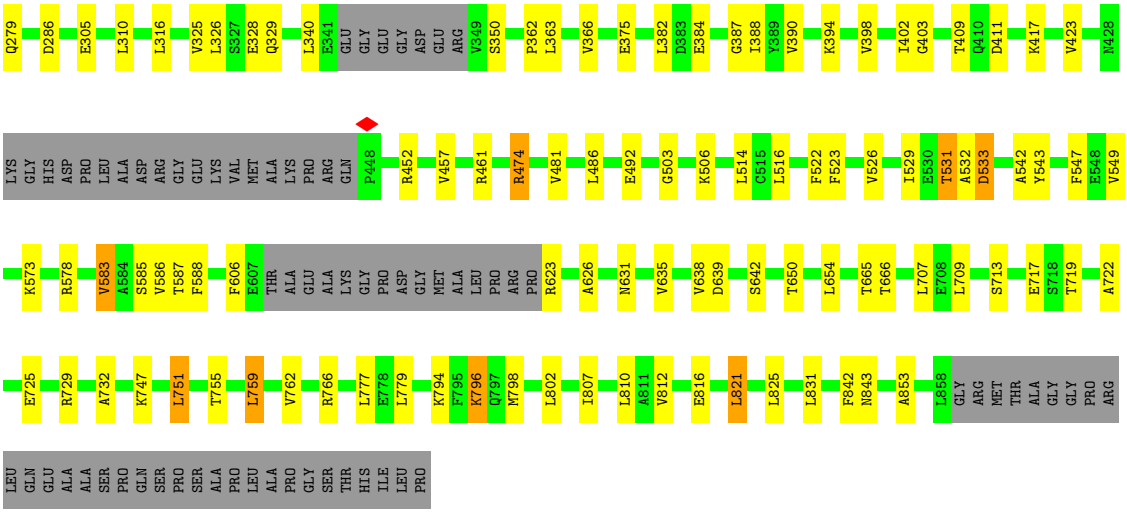
Chain 3:



• Molecule 1: Major vault protein

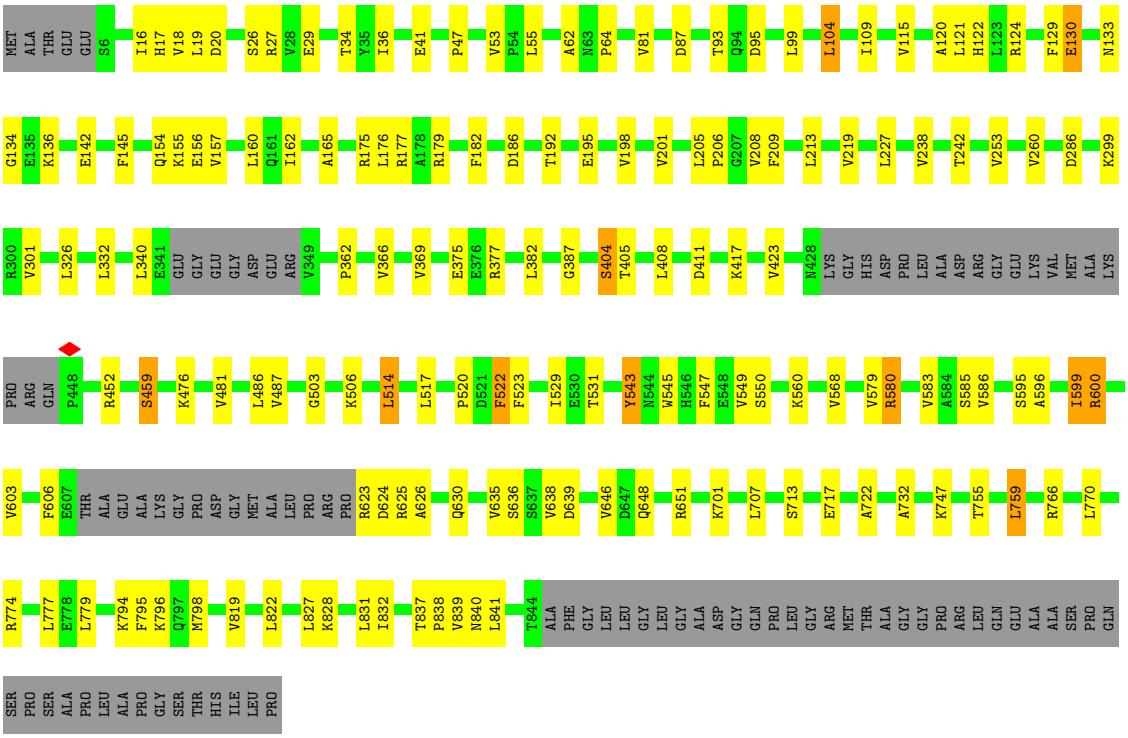
Chain 4:





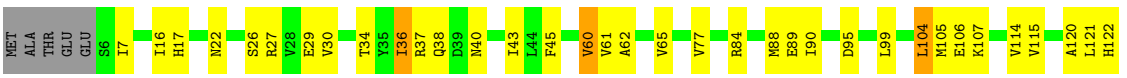
• Molecule 1: Major vault protein

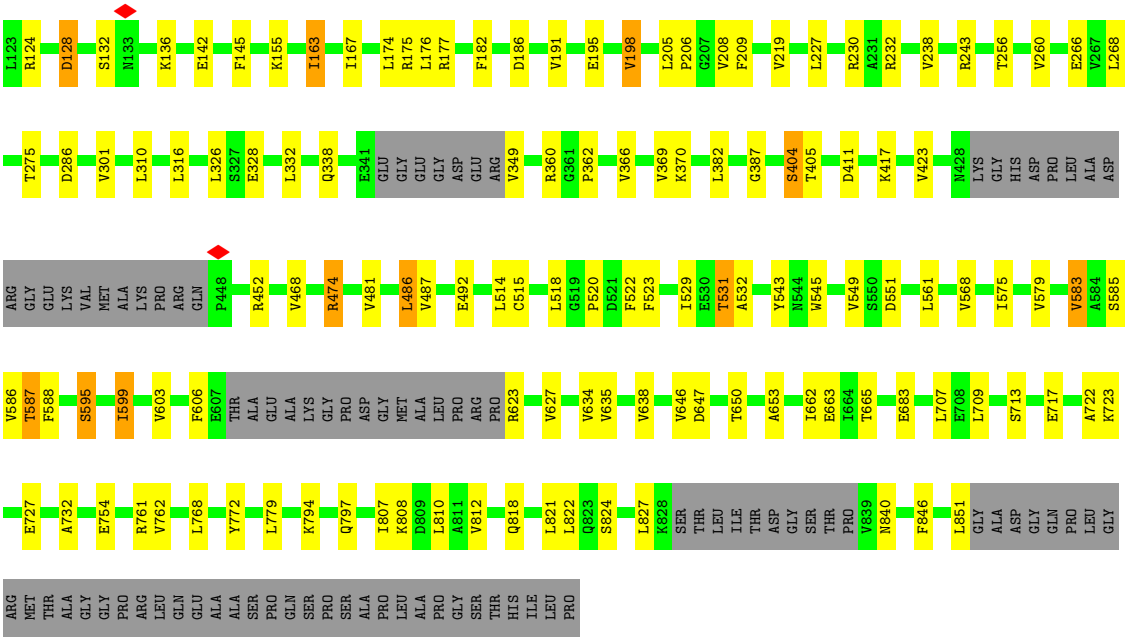
Chain 5:



• Molecule 1: Major vault protein

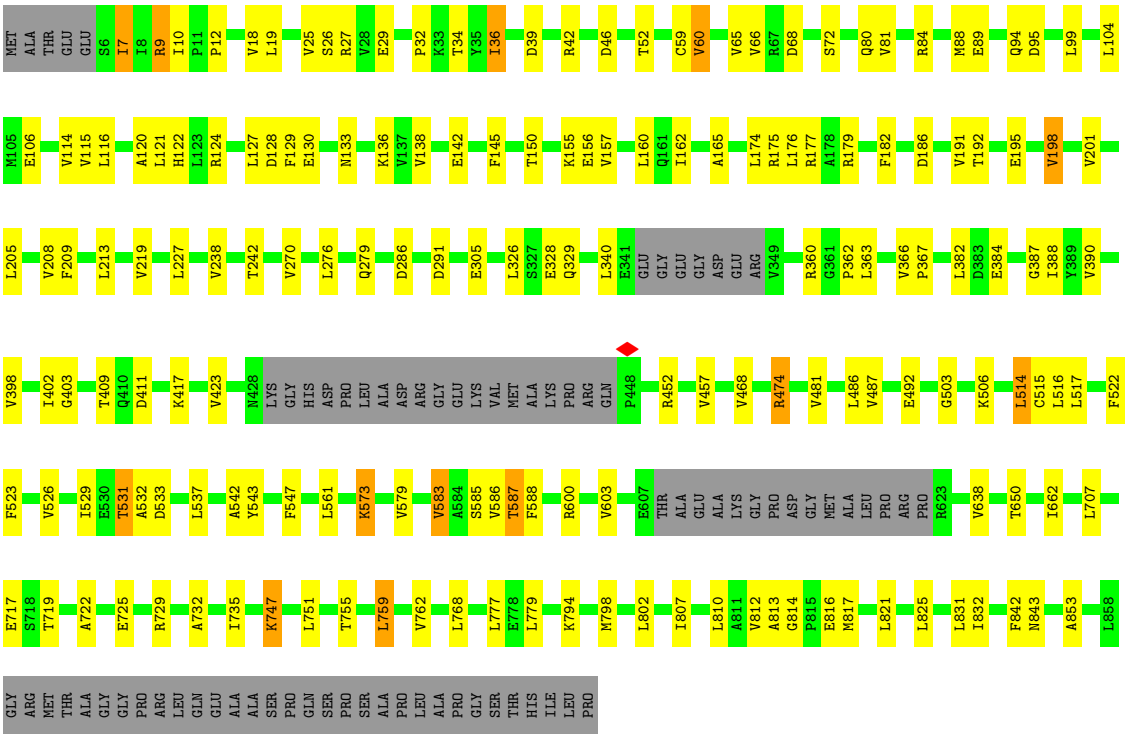
Chain 6:





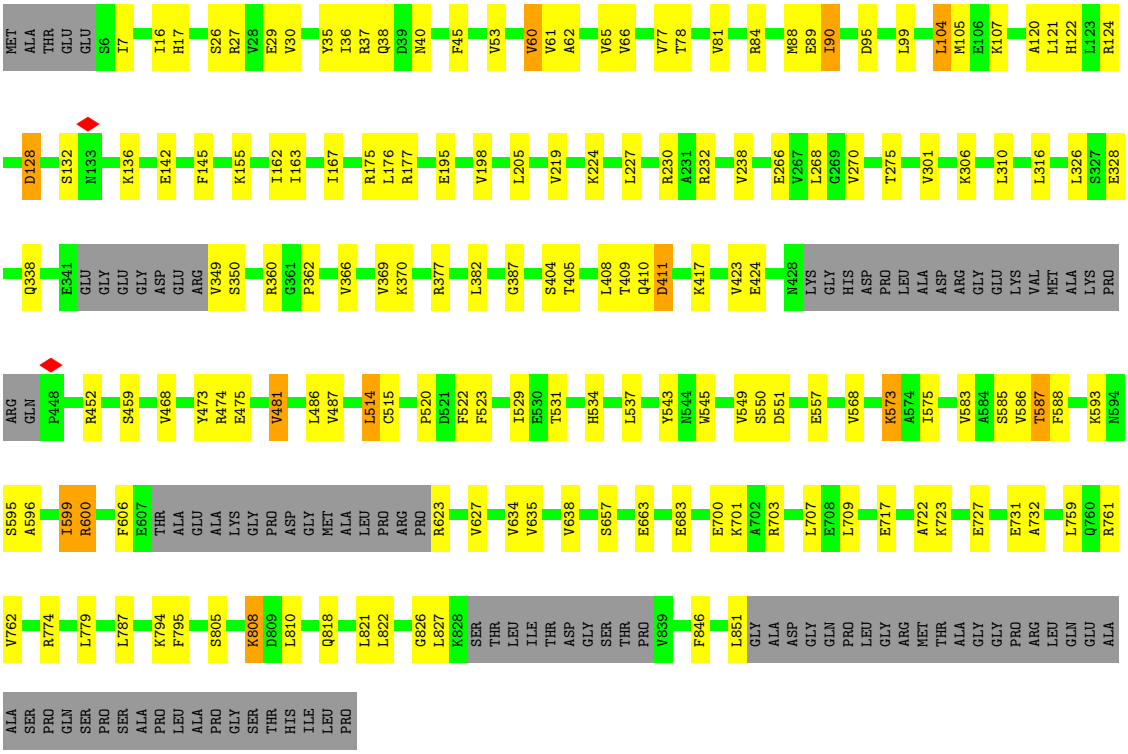
• Molecule 1: Major vault protein

Chain 7:



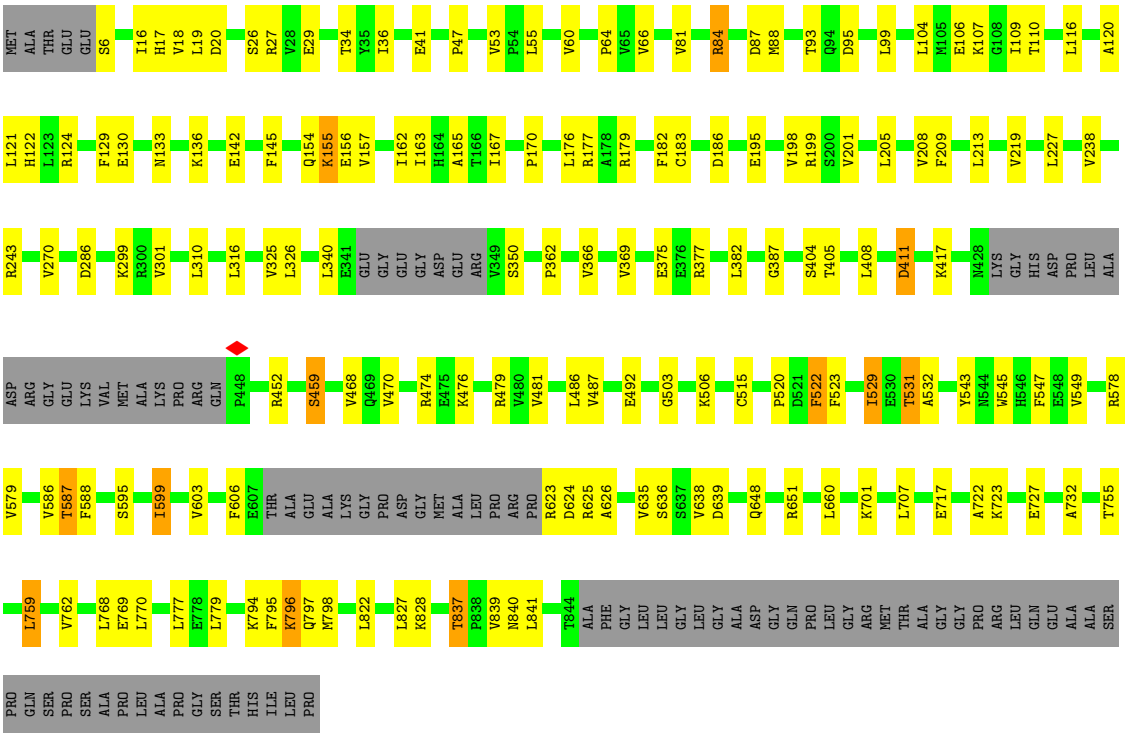
• Molecule 1: Major vault protein

Chain 8:



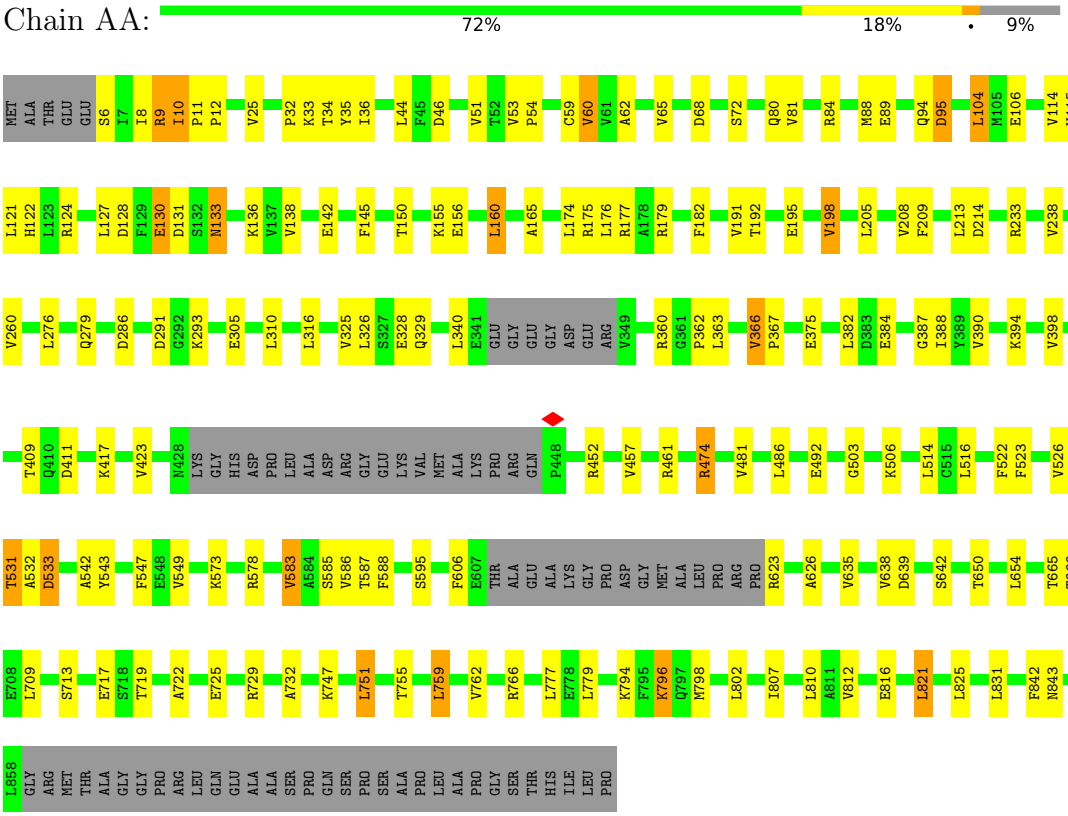
• Molecule 1: Major vault protein

Chain 9:



• Molecule 1: Major vault protein

Chain AA:

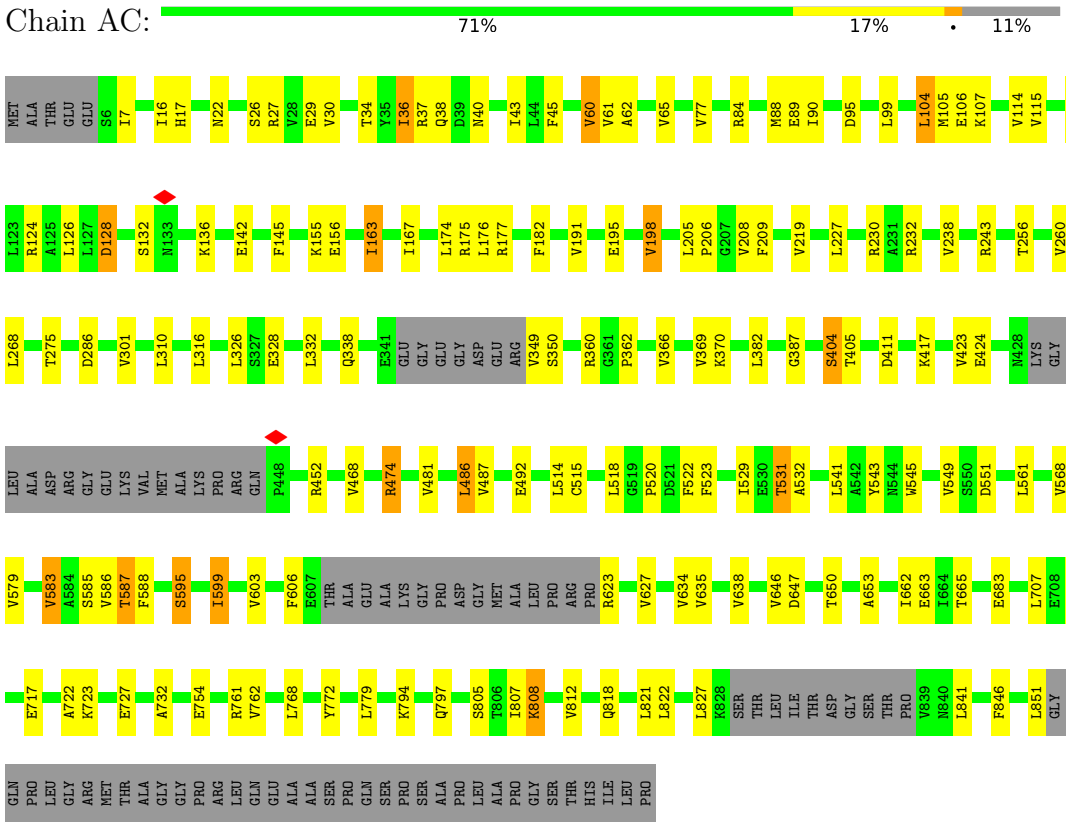


• Molecule 1: Major vault protein

Chain AB:

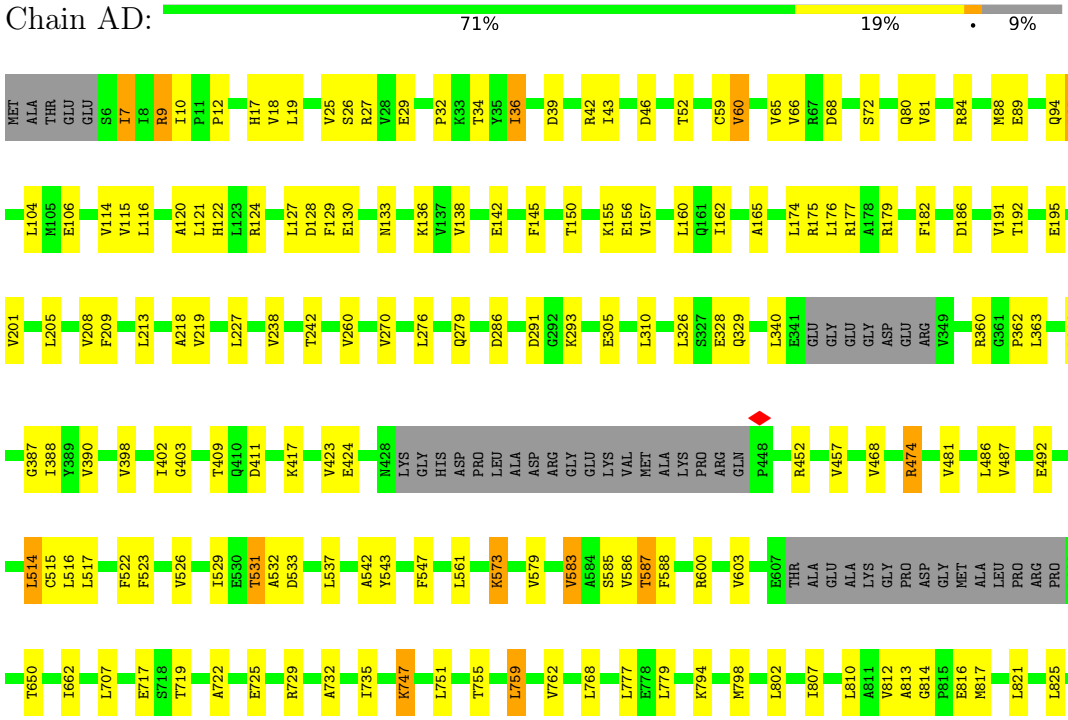
• Molecule 1: Major vault protein

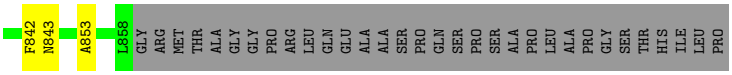
Chain AC:



• Molecule 1: Major vault protein

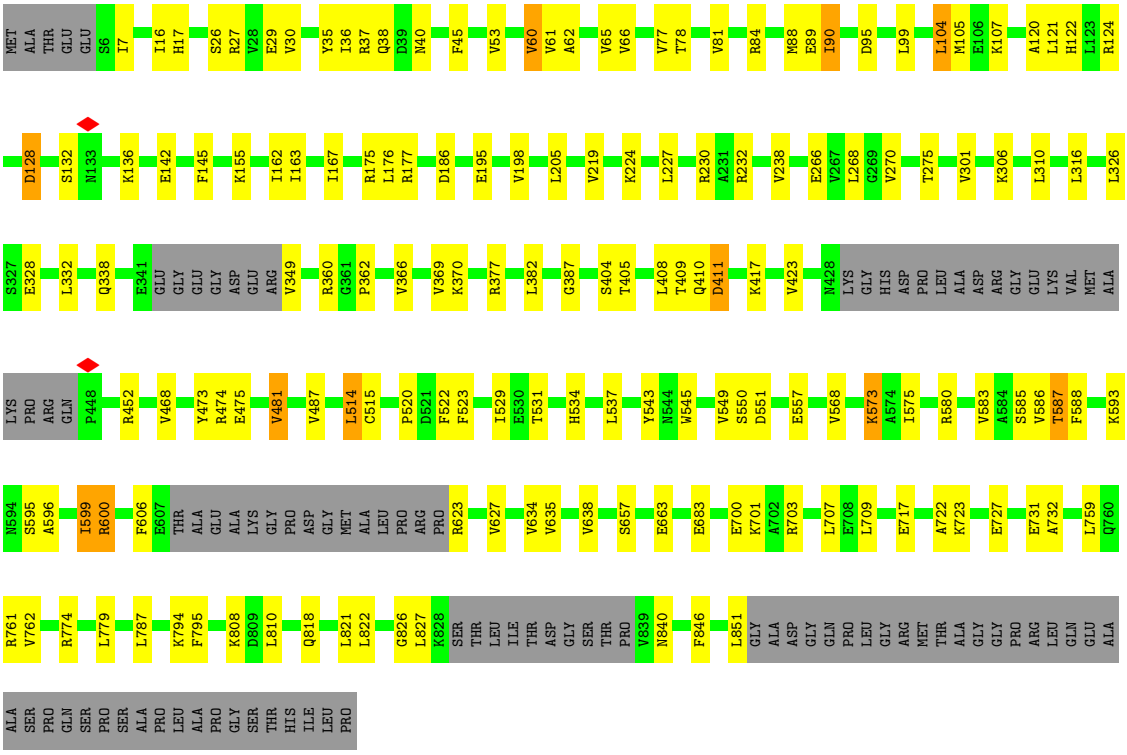
Chain AD:





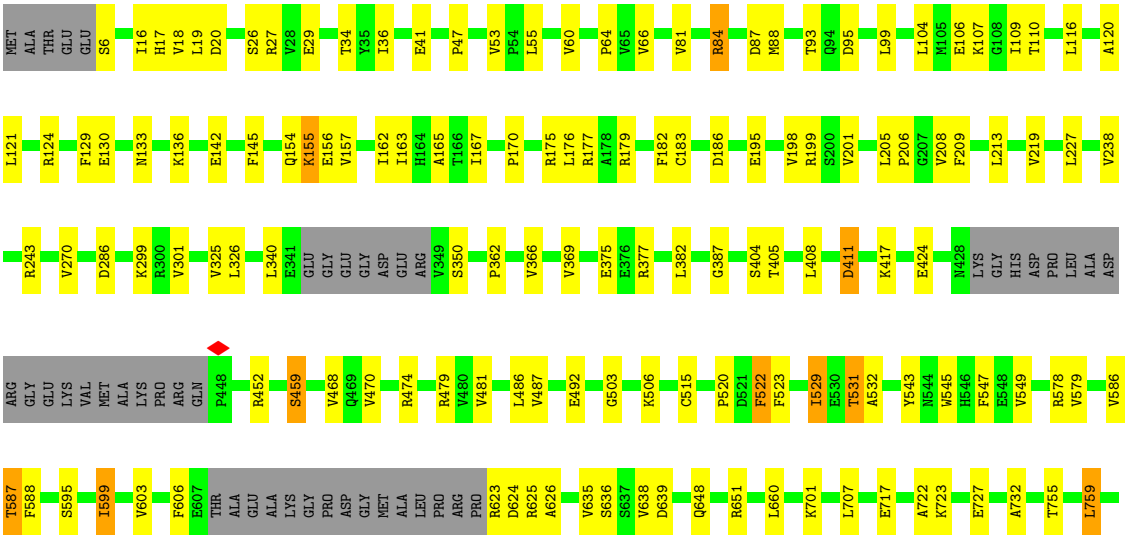
• Molecule 1: Major vault protein

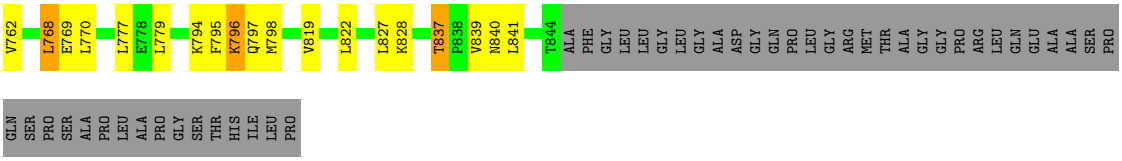
Chain AE:



• Molecule 1: Major vault protein

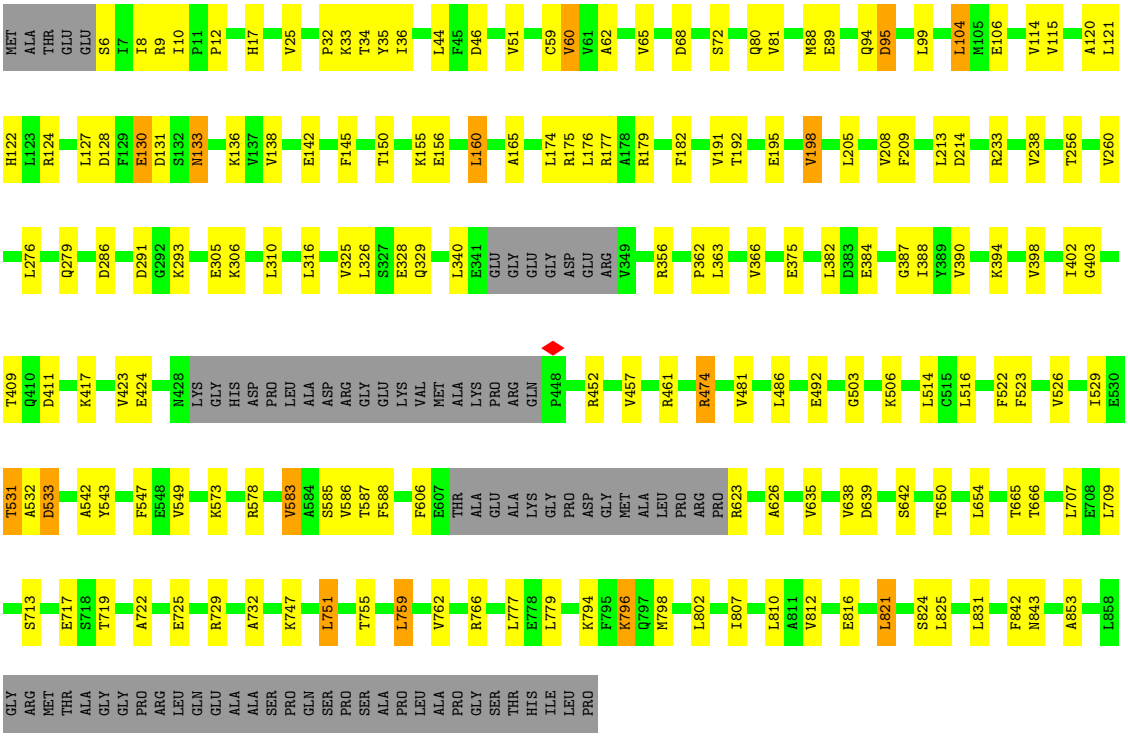
Chain AF:





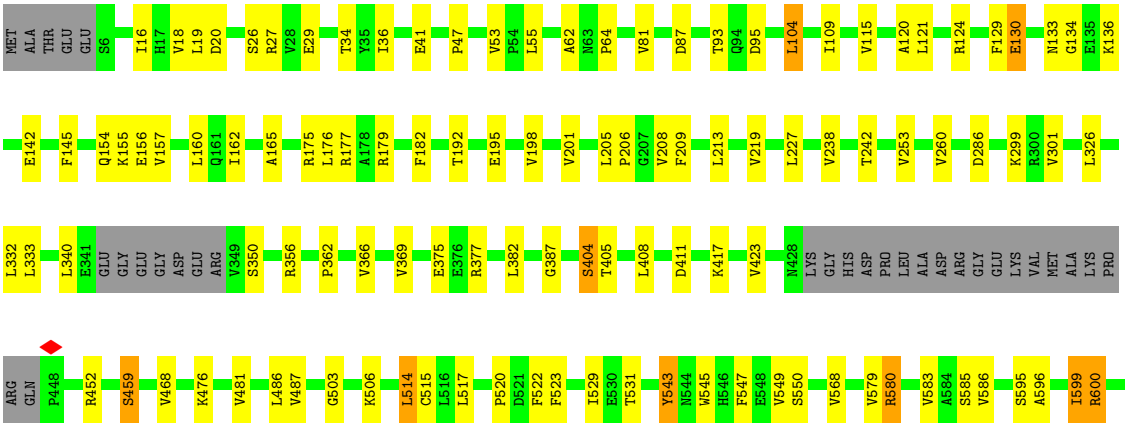
• Molecule 1: Major vault protein

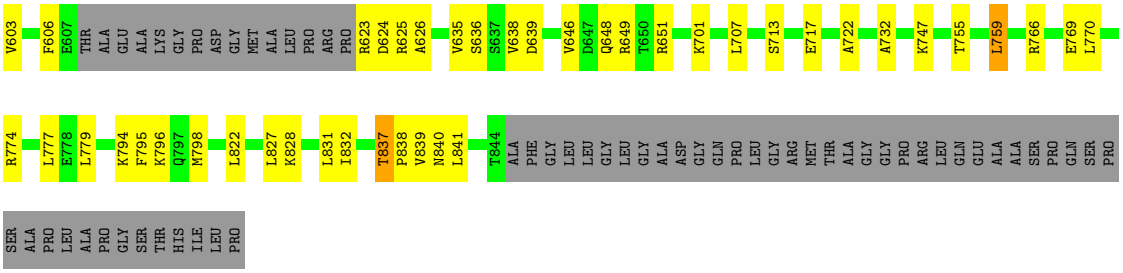
Chain AG:



• Molecule 1: Major vault protein

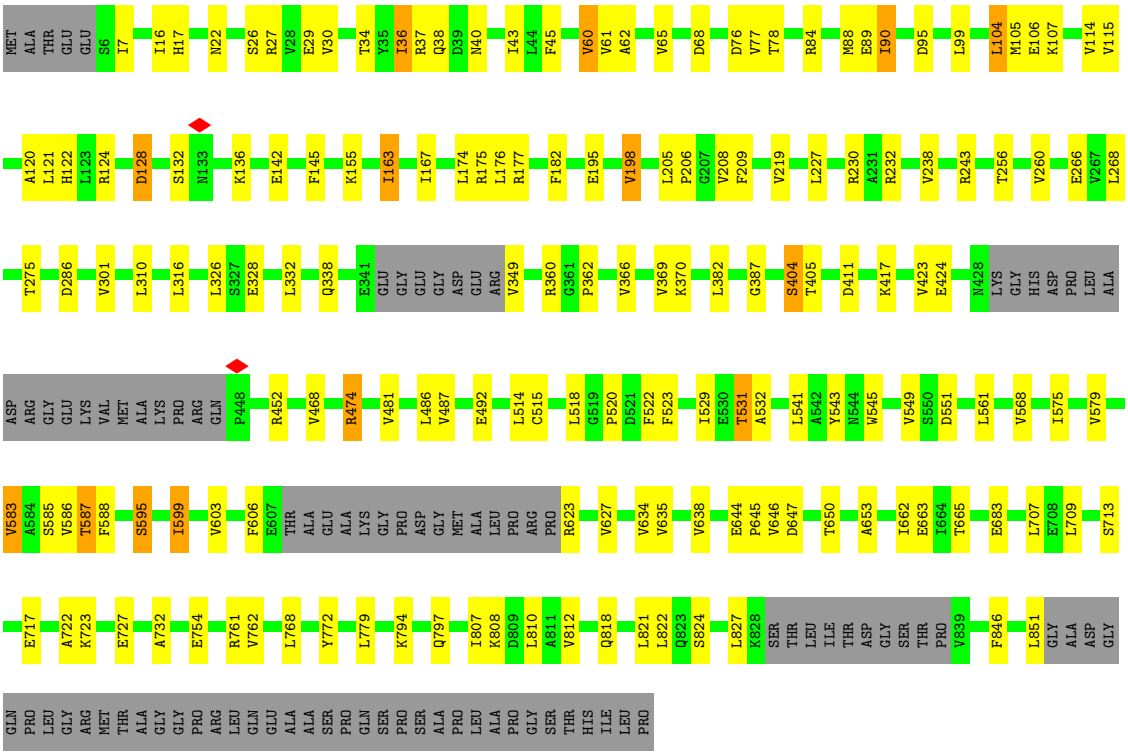
Chain AH:





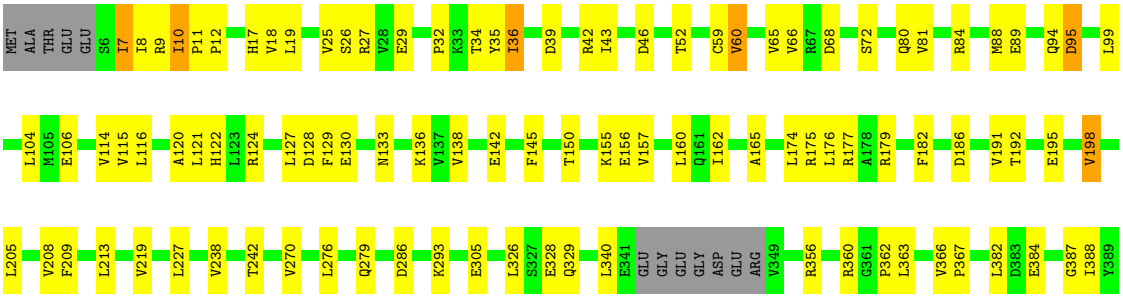
• Molecule 1: Major vault protein

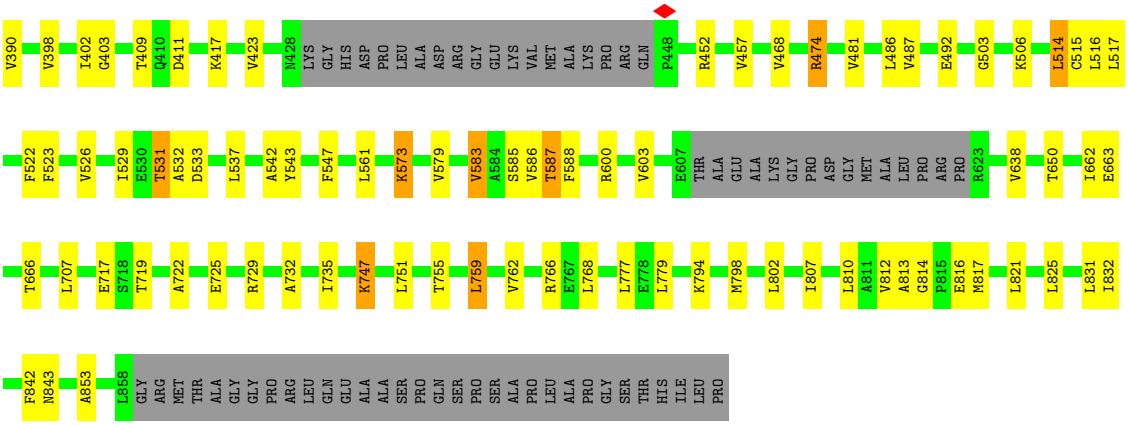
Chain AI:



• Molecule 1: Major vault protein

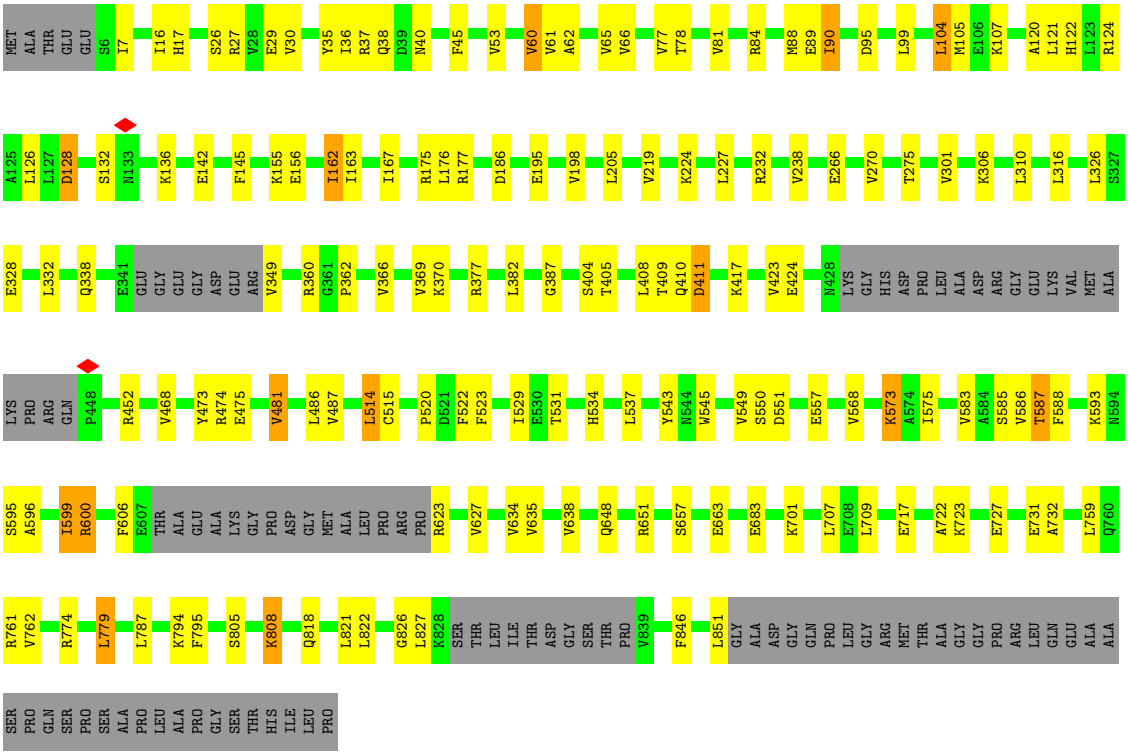
Chain AJ:





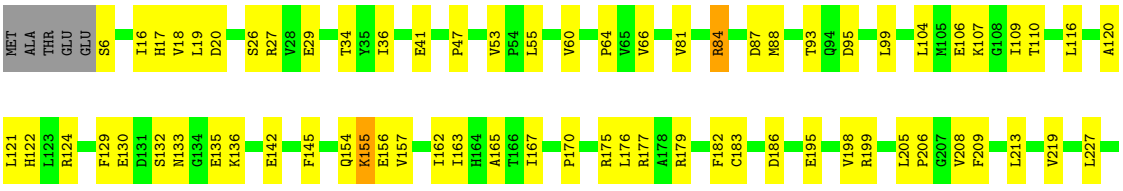
• Molecule 1: Major vault protein

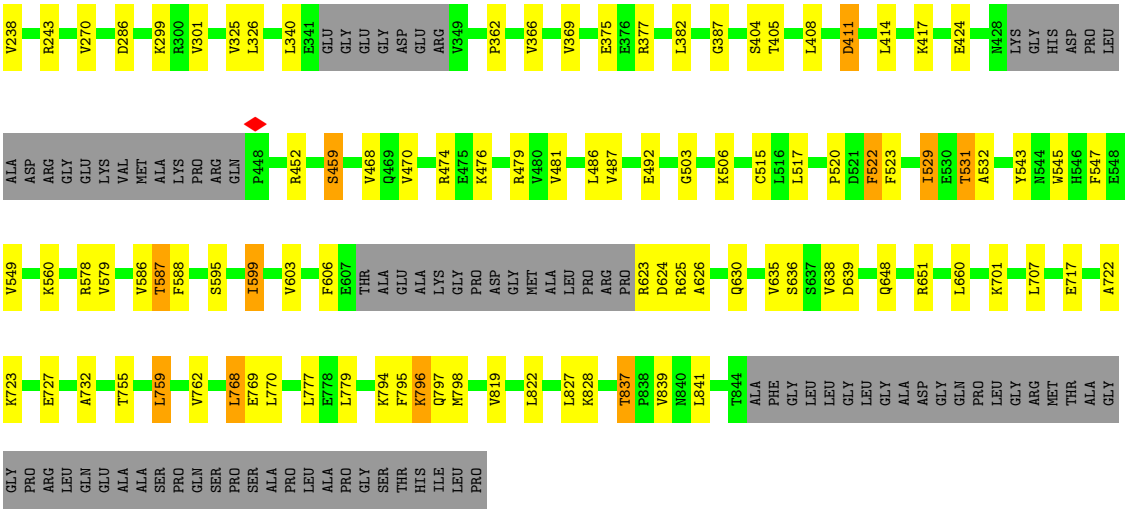
Chain AK:



• Molecule 1: Major vault protein

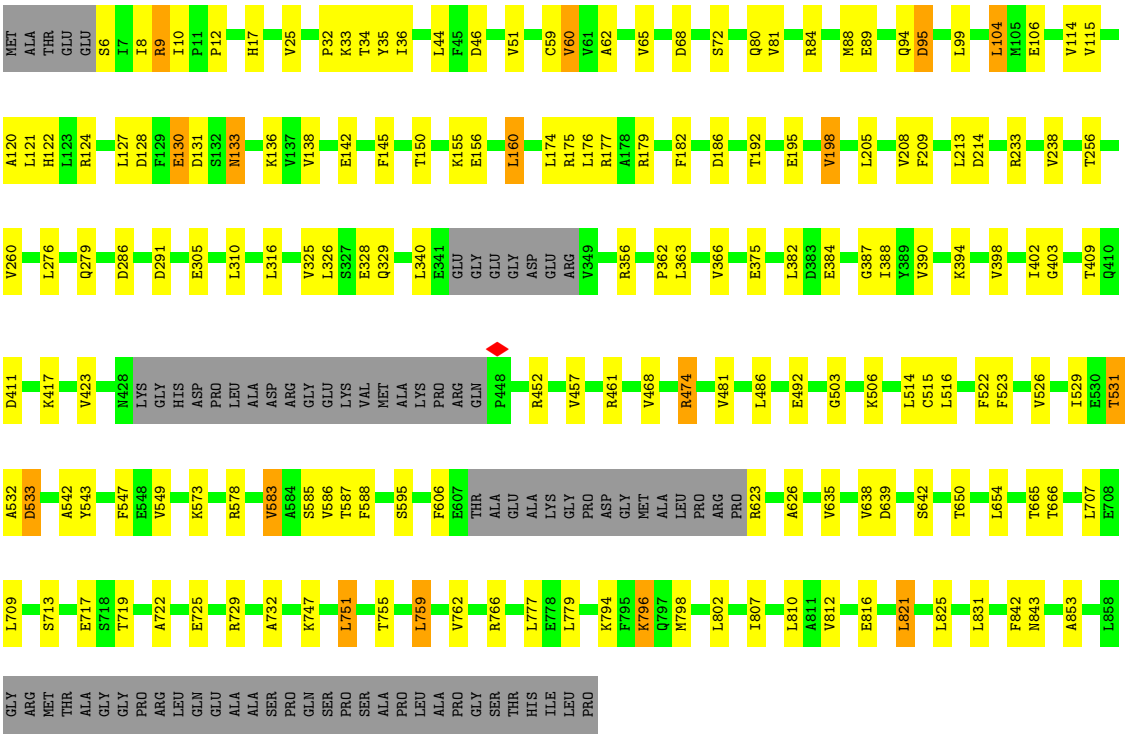
Chain AL:





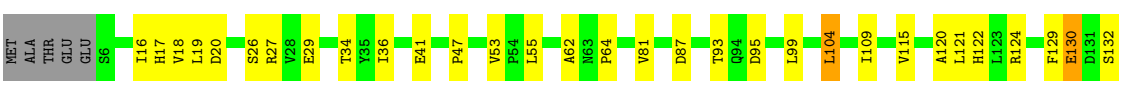
• Molecule 1: Major vault protein

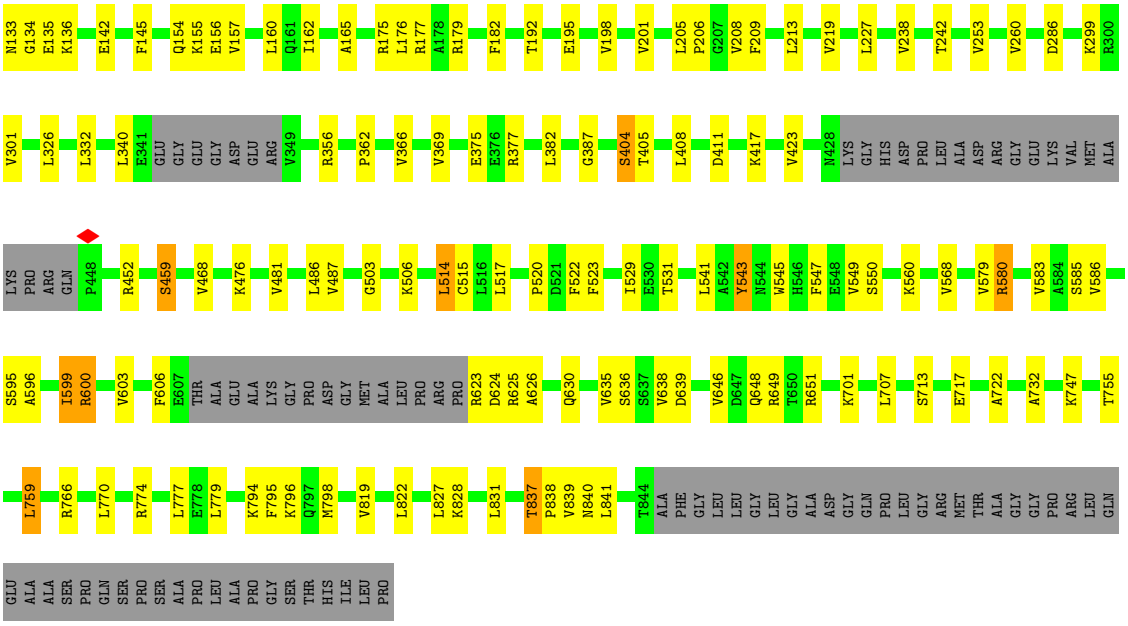
Chain AM:



• Molecule 1: Major vault protein

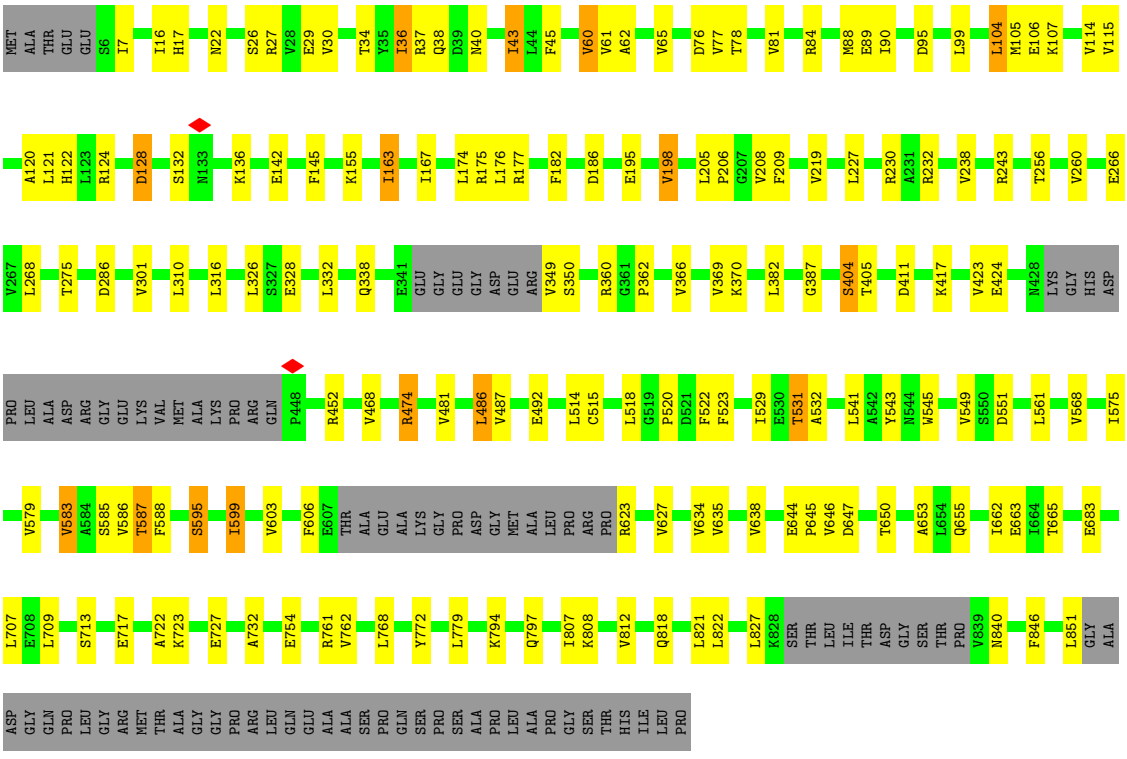
Chain AN:





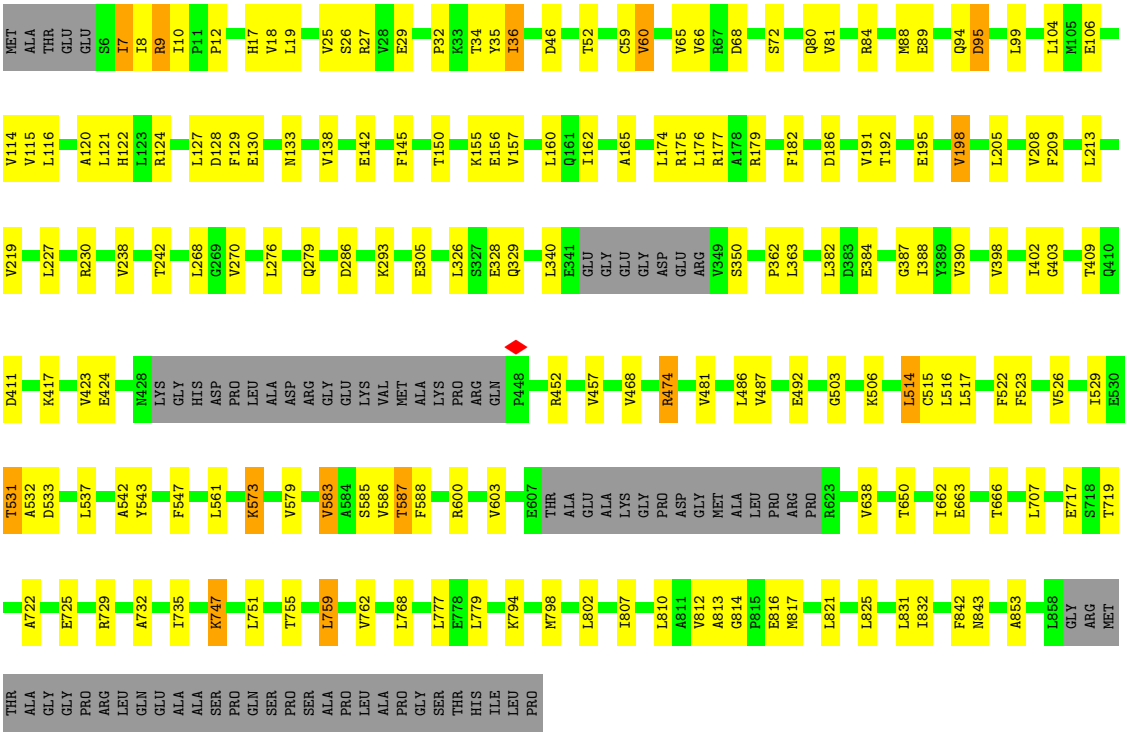
• Molecule 1: Major vault protein

Chain AO:



• Molecule 1: Major vault protein

Chain AP:


MET ALA THR GLU GLU S6 I7 I8 R9 I10 P11 P12 H17 V18 L19 V25 S26 R27 V28 E29 P32 K33 T34 Y35 I36 D46 T52 C59 V60 V65 V66 R67 D68 S72 Q80 V81 R84 M88 E89 Q94 D95 L99 L104 M105 E106
V114 V115 L116 A120 L121 H122 L123 R124 L127 D128 F129 E130 N133 V138 E142 F145 T150 K155 E156 V157 L160 Q161 I162 A165 L174 R175 L176 R177 A178 R179 F182 D186 V191 T192 E195 V198 L205 V208 F209 L213
V219 L227 R230 V238 T242 L268 G269 V270 L276 Q279 D286 K293 E305 L326 S327 E328 Q329 L340 E341 GLU GLY GLU GLY ASP GLU ARG V349 S350 P362 L363 L382 D383 E384 G387 I388 Y389 V390 V398 I402 G403 T409 Q410
D411 K417 V423 E424 N428 LYS GLY HIS ASP PRO LEU ALA ASP ARG GLY GLU LYS VAL MET ALA LYS PRO ARG GLN P448 R452 V457 V468 R474 V481 L486 V487 E492 G503 K506 L514 C515 L516 L517 F522 F523 V526 I529 E530
T531 A532 D533 L537 A542 Y543 F547 L561 K573 V579 V583 A584 S585 V586 T587 F588 R600 V603 E607 THR ALA GLU ALA LYS GLY PRO ASP GLY MET ALA LEU PRO ARG PRO R623 V638 T650 I662 E663 T666 L707 E717 S718 T719
A722 E725 R729 A732 I735 K747 L751 T755 L759 V762 L768 L777 E778 L779 K794 M798 L802 I807 L810 A811 V812 A813 G814 P815 E816 M817 L821 L825 L831 I832 F842 N843 A853 L858 GLY ARG MET
THR ALA GLY GLY PRO ARG LEU GLN GLU ALA ALA SER PRO GLN SER PRO SER ALA PRO LEU ALA PRO GLY SER THR HIS ILE LEU PRO

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	159668	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 ($e^-/Å^2$)	34.4	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	1500	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.855	Depositor
Minimum map value	0.000	Depositor
Average map value	0.004	Depositor
Map value standard deviation	0.021	Depositor
Recommended contour level	0.0753	Depositor
Map size (Å)	773.5, 773.5, 773.5	wwPDB
Map dimensions	700, 700, 700	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.105, 1.105, 1.105	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	0	0.29	0/6360	0.56	0/8624
1	1	0.29	0/6489	0.54	0/8802
1	2	0.29	0/6353	0.54	0/8615
1	3	0.29	0/6382	0.55	0/8657
1	4	0.30	0/6489	0.55	0/8802
1	5	0.29	0/6382	0.54	0/8657
1	6	0.29	0/6360	0.55	0/8624
1	7	0.29	0/6489	0.54	0/8802
1	8	0.29	0/6353	0.54	0/8615
1	9	0.29	0/6382	0.55	0/8657
1	A	0.29	0/6353	0.54	0/8615
1	AA	0.29	0/6489	0.55	0/8802
1	AB	0.29	0/6382	0.54	0/8657
1	AC	0.29	0/6360	0.55	0/8624
1	AD	0.29	0/6489	0.54	0/8802
1	AE	0.29	0/6353	0.54	0/8615
1	AF	0.29	0/6382	0.55	0/8657
1	AG	0.29	0/6489	0.55	0/8802
1	AH	0.29	0/6382	0.54	0/8657
1	AI	0.29	0/6360	0.55	0/8624
1	AJ	0.29	0/6489	0.54	0/8802
1	AK	0.29	0/6353	0.54	0/8615
1	AL	0.29	0/6382	0.55	0/8657
1	AM	0.30	0/6489	0.55	0/8802
1	AN	0.29	0/6382	0.54	0/8657
1	AO	0.29	0/6360	0.55	0/8624
1	AP	0.29	0/6489	0.54	0/8802
1	B	0.29	0/6382	0.55	0/8657
1	C	0.29	0/6489	0.55	0/8802
1	D	0.29	0/6382	0.54	0/8657
1	E	0.29	0/6360	0.55	0/8624
1	F	0.29	0/6489	0.54	0/8802
1	G	0.29	0/6353	0.54	0/8615
1	H	0.29	0/6382	0.55	0/8657

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	I	0.29	0/6489	0.55	0/8802
1	J	0.29	0/6382	0.54	0/8657
1	K	0.29	0/6360	0.55	0/8624
1	L	0.29	0/6489	0.54	0/8802
1	M	0.29	0/6353	0.54	0/8615
1	N	0.29	0/6382	0.55	0/8657
1	O	0.30	0/6489	0.54	0/8802
1	P	0.29	0/6382	0.54	0/8657
1	Q	0.29	0/6360	0.55	0/8624
1	R	0.29	0/6489	0.54	0/8802
1	S	0.30	0/6353	0.54	0/8615
1	T	0.29	0/6382	0.55	0/8657
1	U	0.29	0/6489	0.55	0/8802
1	V	0.29	0/6382	0.54	0/8657
1	W	0.29	0/6360	0.55	0/8624
1	X	0.29	0/6489	0.54	0/8802
1	Y	0.30	0/6353	0.54	0/8615
1	Z	0.29	0/6382	0.55	0/8657
1	a	0.29	0/6489	0.55	0/8802
1	b	0.29	0/6382	0.54	0/8657
1	c	0.29	0/6360	0.55	0/8624
1	d	0.29	0/6489	0.54	0/8802
1	e	0.29	0/6353	0.54	0/8615
1	f	0.29	0/6382	0.55	0/8657
1	g	0.29	0/6489	0.54	0/8802
1	h	0.29	0/6382	0.54	0/8657
1	i	0.29	0/6360	0.55	0/8624
1	j	0.29	0/6489	0.54	0/8802
1	k	0.30	0/6353	0.54	0/8615
1	l	0.29	0/6382	0.55	0/8657
1	m	0.29	0/6489	0.54	0/8802
1	n	0.29	0/6382	0.54	0/8657
1	o	0.29	0/6360	0.55	0/8624
1	p	0.29	0/6489	0.54	0/8802
1	q	0.29	0/6353	0.54	0/8615
1	r	0.29	0/6382	0.55	0/8657
1	s	0.29	0/6489	0.55	0/8802
1	t	0.29	0/6382	0.54	0/8657
1	u	0.29	0/6360	0.55	0/8624
1	v	0.29	0/6489	0.54	0/8802
1	w	0.29	0/6353	0.54	0/8615
1	x	0.29	0/6382	0.55	0/8657
1	y	0.29	0/6489	0.54	0/8802

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	z	0.29	0/6382	0.54	0/8657
All	All	0.29	0/499915	0.55	0/678041

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 (i)

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	0	6253	0	6316	107	0
1	1	6379	0	6449	104	0
1	2	6247	0	6309	111	0
1	3	6275	0	6339	122	0
1	4	6379	0	6449	95	0
1	5	6275	0	6339	111	0
1	6	6253	0	6316	106	0
1	7	6379	0	6449	99	0
1	8	6247	0	6309	110	0
1	9	6275	0	6339	121	0
1	A	6247	0	6309	108	0
1	AA	6379	0	6449	100	0
1	AB	6275	0	6339	111	0
1	AC	6253	0	6316	106	0
1	AD	6379	0	6449	102	0
1	AE	6247	0	6309	108	0
1	AF	6275	0	6339	119	0
1	AG	6379	0	6449	102	0
1	AH	6275	0	6339	111	0
1	AI	6253	0	6316	107	0
1	AJ	6379	0	6449	104	0
1	AK	6247	0	6309	112	0
1	AL	6275	0	6339	121	0
1	AM	6379	0	6449	96	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AN	6275	0	6339	113	0
1	AO	6253	0	6316	110	0
1	AP	6379	0	6449	101	0
1	B	6275	0	6339	118	0
1	C	6379	0	6449	92	0
1	D	6275	0	6339	114	0
1	E	6253	0	6316	105	0
1	F	6379	0	6449	97	0
1	G	6247	0	6309	104	0
1	H	6275	0	6339	116	0
1	I	6379	0	6449	96	0
1	J	6275	0	6339	114	0
1	K	6253	0	6316	105	0
1	L	6379	0	6449	100	0
1	M	6247	0	6309	107	0
1	N	6275	0	6339	121	0
1	O	6379	0	6449	95	0
1	P	6275	0	6339	113	0
1	Q	6253	0	6316	108	0
1	R	6379	0	6449	98	0
1	S	6247	0	6309	105	0
1	T	6275	0	6339	121	0
1	U	6379	0	6449	99	0
1	V	6275	0	6339	114	0
1	W	6253	0	6316	102	0
1	X	6379	0	6449	105	0
1	Y	6247	0	6309	109	0
1	Z	6275	0	6339	120	0
1	a	6379	0	6449	96	0
1	b	6275	0	6339	111	0
1	c	6253	0	6316	104	0
1	d	6379	0	6449	96	0
1	e	6247	0	6309	108	0
1	f	6275	0	6339	120	0
1	g	6379	0	6449	98	0
1	h	6275	0	6339	113	0
1	i	6253	0	6316	104	0
1	j	6379	0	6449	102	0
1	k	6247	0	6309	106	0
1	l	6275	0	6339	122	0
1	m	6379	0	6449	97	0
1	n	6275	0	6339	110	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	o	6253	0	6316	105	0
1	p	6379	0	6449	98	0
1	q	6247	0	6309	108	0
1	r	6275	0	6339	120	0
1	s	6379	0	6449	102	0
1	t	6275	0	6339	112	0
1	u	6253	0	6316	106	0
1	v	6379	0	6449	103	0
1	w	6247	0	6309	108	0
1	x	6275	0	6339	123	0
1	y	6379	0	6449	97	0
1	z	6275	0	6339	111	0
All	All	491504	0	496613	7201	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 (7201) 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:B:129:PHE:CE2	1:B:156:GLU:HB2	1.85	1.12
1:H:129:PHE:CE2	1:H:156:GLU:HB2	1.84	1.12
1:N:129:PHE:CE2	1:N:156:GLU:HB2	1.84	1.12
1:T:129:PHE:CE2	1:T:156:GLU:HB2	1.85	1.12
1:Z:129:PHE:CE2	1:Z:156:GLU:HB2	1.84	1.12
1:AL:129:PHE:CE2	1:AL:156:GLU:HB2	1.85	1.12
1:AF:129:PHE:CE2	1:AF:156:GLU:HB2	1.85	1.12
1:f:129:PHE:CE2	1:f:156:GLU:HB2	1.84	1.12
1:9:129:PHE:CE2	1:9:156:GLU:HB2	1.85	1.12
1:l:129:PHE:CE2	1:l:156:GLU:HB2	1.84	1.11
1:3:129:PHE:CE2	1:3:156:GLU:HB2	1.85	1.11
1:Z:129:PHE:HZ	1:Z:157:VAL:CG2	1.65	1.10
1:H:129:PHE:HZ	1:H:157:VAL:CG2	1.65	1.10
1:N:129:PHE:HZ	1:N:157:VAL:CG2	1.65	1.10
1:T:129:PHE:HZ	1:T:157:VAL:CG2	1.65	1.10
1:T:129:PHE:HZ	1:T:157:VAL:HG22	1.17	1.10
1:f:129:PHE:HZ	1:f:157:VAL:CG2	1.65	1.10
1:B:129:PHE:HZ	1:B:157:VAL:CG2	1.65	1.10
1:r:129:PHE:CE2	1:r:156:GLU:HB2	1.85	1.10
1:x:129:PHE:CE2	1:x:156:GLU:HB2	1.85	1.10
1:H:129:PHE:HZ	1:H:157:VAL:HG22	1.17	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:129:PHE:HZ	1:l:157:VAL:CG2	1.65	1.10
1:AL:129:PHE:HZ	1:AL:157:VAL:CG2	1.65	1.09
1:r:129:PHE:HZ	1:r:157:VAL:CG2	1.65	1.09
1:AF:129:PHE:HZ	1:AF:157:VAL:HG22	1.17	1.09
1:AF:129:PHE:HZ	1:AF:157:VAL:CG2	1.65	1.09
1:x:129:PHE:HZ	1:x:157:VAL:CG2	1.65	1.08
1:AL:129:PHE:HZ	1:AL:157:VAL:HG22	1.17	1.08
1:l:129:PHE:HZ	1:l:157:VAL:HG22	1.17	1.08
1:3:129:PHE:HZ	1:3:157:VAL:CG2	1.65	1.08
1:9:129:PHE:HZ	1:9:157:VAL:CG2	1.65	1.08
1:f:129:PHE:HZ	1:f:157:VAL:HG22	1.17	1.08
1:3:129:PHE:HZ	1:3:157:VAL:HG22	1.17	1.07
1:B:129:PHE:HZ	1:B:157:VAL:HG22	1.17	1.07
1:x:129:PHE:HZ	1:x:157:VAL:HG22	1.17	1.07
1:Z:129:PHE:HZ	1:Z:157:VAL:HG22	1.17	1.06
1:N:129:PHE:HZ	1:N:157:VAL:HG22	1.17	1.05
1:9:129:PHE:HZ	1:9:157:VAL:HG22	1.17	1.04
1:r:129:PHE:HZ	1:r:157:VAL:HG22	1.17	1.03
1:AJ:129:PHE:CD2	1:AJ:156:GLU:HB2	1.94	1.02
1:AD:129:PHE:CD2	1:AD:156:GLU:HB2	1.94	1.02
1:AP:129:PHE:CD2	1:AP:156:GLU:HB2	1.94	1.02
1:j:129:PHE:CD2	1:j:156:GLU:HB2	1.94	1.02
1:7:129:PHE:CD2	1:7:156:GLU:HB2	1.94	1.02
1:F:129:PHE:CD2	1:F:156:GLU:HB2	1.94	1.02
1:R:129:PHE:CD2	1:R:156:GLU:HB2	1.94	1.01
1:v:129:PHE:CD2	1:v:156:GLU:HB2	1.94	1.01
1:3:129:PHE:CD2	1:3:156:GLU:HB2	1.95	1.01
1:9:129:PHE:CD2	1:9:156:GLU:HB2	1.95	1.01
1:X:129:PHE:CD2	1:X:156:GLU:HB2	1.94	1.01
1:d:129:PHE:CD2	1:d:156:GLU:HB2	1.94	1.01
1:x:129:PHE:CD2	1:x:156:GLU:HB2	1.95	1.01
1:1:129:PHE:CD2	1:1:156:GLU:HB2	1.94	1.01
1:L:129:PHE:CD2	1:L:156:GLU:HB2	1.94	1.01
1:r:129:PHE:CD2	1:r:156:GLU:HB2	1.95	1.01
1:p:129:PHE:CD2	1:p:156:GLU:HB2	1.94	1.00
1:AF:129:PHE:CD2	1:AF:156:GLU:HB2	1.95	1.00
1:H:129:PHE:CD2	1:H:156:GLU:HB2	1.95	1.00
1:l:129:PHE:CD2	1:l:156:GLU:HB2	1.95	1.00
1:B:129:PHE:CD2	1:B:156:GLU:HB2	1.95	1.00
1:N:129:PHE:CD2	1:N:156:GLU:HB2	1.95	0.99
1:Z:129:PHE:CD2	1:Z:156:GLU:HB2	1.95	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:129:PHE:CD2	1:AL:156:GLU:HB2	1.95	0.99
1:f:129:PHE:CD2	1:f:156:GLU:HB2	1.95	0.99
1:T:129:PHE:CD2	1:T:156:GLU:HB2	1.95	0.99
1:r:129:PHE:CZ	1:r:157:VAL:CG2	2.48	0.96
1:l:129:PHE:CZ	1:l:157:VAL:CG2	2.48	0.96
1:x:129:PHE:CZ	1:x:157:VAL:CG2	2.49	0.96
1:3:129:PHE:CZ	1:3:157:VAL:CG2	2.49	0.96
1:9:129:PHE:CZ	1:9:157:VAL:CG2	2.49	0.96
1:AF:129:PHE:CZ	1:AF:157:VAL:CG2	2.49	0.96
1:f:129:PHE:CZ	1:f:157:VAL:CG2	2.48	0.96
1:AL:129:PHE:CZ	1:AL:157:VAL:CG2	2.48	0.96
1:Z:129:PHE:CZ	1:Z:157:VAL:CG2	2.48	0.96
1:B:129:PHE:CZ	1:B:157:VAL:CG2	2.48	0.96
1:H:129:PHE:CZ	1:H:157:VAL:CG2	2.48	0.95
1:T:129:PHE:CZ	1:T:157:VAL:CG2	2.48	0.95
1:C:798:MET:HE1	1:G:846:PHE:CZ	2.02	0.95
1:N:129:PHE:CZ	1:N:157:VAL:CG2	2.48	0.95
1:y:798:MET:HE1	1:2:846:PHE:CZ	2.02	0.95
1:A:846:PHE:CZ	1:AM:798:MET:HE1	2.02	0.95
1:AG:798:MET:HE1	1:AK:846:PHE:CZ	2.02	0.95
1:AA:798:MET:HE1	1:AE:846:PHE:CZ	2.02	0.95
1:4:798:MET:HE1	1:8:846:PHE:CZ	2.02	0.94
1:O:798:MET:HE1	1:S:846:PHE:CZ	2.02	0.94
1:m:798:MET:HE1	1:q:846:PHE:CZ	2.02	0.94
1:U:798:MET:HE1	1:Y:846:PHE:CZ	2.02	0.93
1:s:798:MET:HE1	1:w:846:PHE:CZ	2.02	0.93
1:K:595:SER:O	1:K:599:ILE:HG12	1.69	0.93
1:Q:595:SER:O	1:Q:599:ILE:HG12	1.69	0.93
1:i:595:SER:O	1:i:599:ILE:HG12	1.69	0.93
1:I:798:MET:HE1	1:M:846:PHE:CZ	2.02	0.93
1:g:798:MET:HE1	1:k:846:PHE:CZ	2.02	0.93
1:E:595:SER:O	1:E:599:ILE:HG12	1.69	0.93
1:a:798:MET:HE1	1:e:846:PHE:CZ	2.02	0.93
1:W:595:SER:O	1:W:599:ILE:HG12	1.69	0.93
1:AO:595:SER:O	1:AO:599:ILE:HG12	1.69	0.93
1:l:129:PHE:CD2	1:l:156:GLU:CB	2.52	0.93
1:c:595:SER:O	1:c:599:ILE:HG12	1.69	0.92
1:r:129:PHE:CD2	1:r:156:GLU:CB	2.52	0.92
1:6:595:SER:O	1:6:599:ILE:HG12	1.69	0.92
1:9:129:PHE:CD2	1:9:156:GLU:CB	2.52	0.92
1:AC:595:SER:O	1:AC:599:ILE:HG12	1.69	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:595:SER:O	1:AI:599:ILE:HG12	1.69	0.92
1:o:595:SER:O	1:o:599:ILE:HG12	1.69	0.92
1:AF:129:PHE:CD2	1:AF:156:GLU:CB	2.52	0.92
1:f:129:PHE:CD2	1:f:156:GLU:CB	2.52	0.92
1:0:595:SER:O	1:0:599:ILE:HG12	1.69	0.92
1:T:129:PHE:CD2	1:T:156:GLU:CB	2.53	0.92
1:AL:129:PHE:CD2	1:AL:156:GLU:CB	2.53	0.92
1:x:129:PHE:CD2	1:x:156:GLU:CB	2.53	0.92
1:3:129:PHE:CD2	1:3:156:GLU:CB	2.53	0.92
1:Z:129:PHE:CD2	1:Z:156:GLU:CB	2.53	0.91
1:B:129:PHE:CD2	1:B:156:GLU:CB	2.52	0.91
1:u:595:SER:O	1:u:599:ILE:HG12	1.69	0.91
1:m:798:MET:HE1	1:q:846:PHE:HZ	1.33	0.91
1:H:129:PHE:CD2	1:H:156:GLU:CB	2.53	0.91
1:N:129:PHE:CD2	1:N:156:GLU:CB	2.52	0.91
1:g:798:MET:HE1	1:k:846:PHE:HZ	1.33	0.91
1:O:798:MET:HE1	1:S:846:PHE:HZ	1.33	0.90
1:W:595:SER:O	1:W:599:ILE:CG1	2.20	0.90
1:o:595:SER:O	1:o:599:ILE:CG1	2.20	0.90
1:Q:595:SER:O	1:Q:599:ILE:CG1	2.20	0.90
1:6:595:SER:O	1:6:599:ILE:CG1	2.20	0.90
1:AC:595:SER:O	1:AC:599:ILE:CG1	2.20	0.90
1:u:595:SER:O	1:u:599:ILE:CG1	2.20	0.90
1:3:129:PHE:CZ	1:3:157:VAL:HG22	2.07	0.90
1:i:595:SER:O	1:i:599:ILE:CG1	2.20	0.90
1:AI:595:SER:O	1:AI:599:ILE:CG1	2.20	0.89
1:K:595:SER:O	1:K:599:ILE:CG1	2.20	0.89
1:0:595:SER:O	1:0:599:ILE:CG1	2.20	0.89
1:c:595:SER:O	1:c:599:ILE:CG1	2.20	0.89
1:f:129:PHE:CZ	1:f:157:VAL:HG22	2.07	0.89
1:AO:595:SER:O	1:AO:599:ILE:CG1	2.20	0.89
1:a:798:MET:HE1	1:e:846:PHE:HZ	1.33	0.89
1:x:129:PHE:CZ	1:x:157:VAL:HG22	2.07	0.89
1:U:798:MET:HE1	1:Y:846:PHE:HZ	1.33	0.89
1:I:798:MET:HE1	1:M:846:PHE:HZ	1.33	0.89
1:E:595:SER:O	1:E:599:ILE:CG1	2.20	0.88
1:AL:129:PHE:CZ	1:AL:157:VAL:HG22	2.07	0.88
1:2:595:SER:O	1:2:599:ILE:HG13	1.74	0.88
1:G:595:SER:O	1:G:599:ILE:HG13	1.74	0.88
1:k:595:SER:O	1:k:599:ILE:HG13	1.74	0.88
1:AK:595:SER:O	1:AK:599:ILE:HG13	1.74	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:129:PHE:CD2	1:AD:156:GLU:CB	2.57	0.88
1:AE:595:SER:O	1:AE:599:ILE:HG13	1.74	0.88
1:M:595:SER:O	1:M:599:ILE:HG13	1.74	0.88
1:s:798:MET:HE1	1:w:846:PHE:HZ	1.33	0.88
1:X:129:PHE:CD2	1:X:156:GLU:CB	2.57	0.88
1:e:595:SER:O	1:e:599:ILE:HG13	1.74	0.88
1:j:129:PHE:CD2	1:j:156:GLU:CB	2.57	0.88
1:AP:129:PHE:CD2	1:AP:156:GLU:CB	2.57	0.88
1:8:595:SER:O	1:8:599:ILE:HG13	1.74	0.87
1:Z:129:PHE:CZ	1:Z:157:VAL:HG22	2.07	0.87
1:w:595:SER:O	1:w:599:ILE:HG13	1.74	0.87
1:L:129:PHE:CD2	1:L:156:GLU:CB	2.57	0.87
1:d:129:PHE:CD2	1:d:156:GLU:CB	2.57	0.87
1:R:129:PHE:CD2	1:R:156:GLU:CB	2.57	0.87
1:S:595:SER:O	1:S:599:ILE:HG13	1.74	0.87
1:r:129:PHE:CZ	1:r:157:VAL:HG22	2.07	0.87
1:v:129:PHE:CD2	1:v:156:GLU:CB	2.57	0.87
1:q:595:SER:O	1:q:599:ILE:HG13	1.74	0.87
1:1:129:PHE:CD2	1:1:156:GLU:CB	2.57	0.87
1:7:129:PHE:CD2	1:7:156:GLU:CB	2.57	0.87
1:AF:129:PHE:CZ	1:AF:157:VAL:HG22	2.07	0.87
1:T:129:PHE:CZ	1:T:157:VAL:HG22	2.07	0.87
1:AJ:129:PHE:CD2	1:AJ:156:GLU:CB	2.57	0.87
1:F:129:PHE:CD2	1:F:156:GLU:CB	2.57	0.86
1:N:129:PHE:CZ	1:N:157:VAL:HG22	2.07	0.86
1:AG:798:MET:HE1	1:AK:846:PHE:HZ	1.33	0.86
1:A:595:SER:O	1:A:599:ILE:HG13	1.74	0.86
1:Y:595:SER:O	1:Y:599:ILE:HG13	1.74	0.86
1:AA:798:MET:HE1	1:AE:846:PHE:HZ	1.33	0.86
1:H:129:PHE:CZ	1:H:157:VAL:HG22	2.07	0.86
1:A:846:PHE:HZ	1:AM:798:MET:HE1	1.33	0.86
1:p:129:PHE:CD2	1:p:156:GLU:CB	2.57	0.86
1:0:846:PHE:HZ	1:1:798:MET:HE1	1.41	0.86
1:Q:846:PHE:HZ	1:R:798:MET:HE1	1.41	0.86
1:W:846:PHE:HZ	1:X:798:MET:HE1	1.41	0.86
1:o:846:PHE:HZ	1:p:798:MET:HE1	1.41	0.86
1:4:798:MET:HE1	1:8:846:PHE:HZ	1.33	0.85
1:AI:846:PHE:HZ	1:AJ:798:MET:HE1	1.41	0.85
1:E:846:PHE:HZ	1:F:798:MET:HE1	1.41	0.85
1:l:129:PHE:CZ	1:l:157:VAL:HG22	2.07	0.85
1:9:129:PHE:CZ	1:9:157:VAL:HG22	2.07	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:846:PHE:HZ	1:AD:798:MET:HE1	1.41	0.85
1:C:798:MET:HE1	1:G:846:PHE:HZ	1.33	0.85
1:u:846:PHE:HZ	1:v:798:MET:HE1	1.41	0.85
1:y:798:MET:HE1	1:2:846:PHE:HZ	1.33	0.85
1:AO:846:PHE:HZ	1:AP:798:MET:HE1	1.41	0.85
1:K:846:PHE:HZ	1:L:798:MET:HE1	1.41	0.84
1:c:846:PHE:HZ	1:d:798:MET:HE1	1.41	0.84
1:i:846:PHE:HZ	1:j:798:MET:HE1	1.41	0.84
1:6:846:PHE:HZ	1:7:798:MET:HE1	1.41	0.84
1:B:129:PHE:CZ	1:B:157:VAL:HG22	2.07	0.84
1:Y:794:LYS:HZ1	1:Y:851:LEU:HD21	1.42	0.84
1:S:794:LYS:HZ1	1:S:851:LEU:HD21	1.42	0.83
1:r:129:PHE:CE2	1:r:156:GLU:CB	2.62	0.83
1:T:129:PHE:CE2	1:T:156:GLU:CB	2.62	0.83
1:Z:129:PHE:CE2	1:Z:156:GLU:CB	2.62	0.83
1:x:129:PHE:CE2	1:x:156:GLU:CB	2.62	0.83
1:G:794:LYS:HZ1	1:G:851:LEU:HD21	1.41	0.82
1:M:794:LYS:HZ1	1:M:851:LEU:HD21	1.42	0.82
1:l:129:PHE:CE2	1:l:156:GLU:CB	2.62	0.82
1:K:846:PHE:CZ	1:L:798:MET:HE1	2.14	0.82
1:Q:846:PHE:CZ	1:R:798:MET:HE1	2.14	0.82
1:t:822:LEU:HB3	1:1:825:LEU:HD21	1.62	0.82
1:N:129:PHE:CE2	1:N:156:GLU:CB	2.62	0.82
1:W:846:PHE:CZ	1:X:798:MET:HE1	2.14	0.82
1:n:822:LEU:HB3	1:v:825:LEU:HD21	1.62	0.82
1:e:794:LYS:HZ1	1:e:851:LEU:HD21	1.43	0.82
1:M:827:LEU:HD22	1:N:795:PHE:CE1	2.15	0.82
1:9:129:PHE:CE2	1:9:156:GLU:CB	2.62	0.82
1:E:846:PHE:CZ	1:F:798:MET:HE1	2.14	0.82
1:G:827:LEU:HD22	1:H:795:PHE:CE1	2.14	0.82
1:AF:129:PHE:CE2	1:AF:156:GLU:CB	2.62	0.82
1:c:846:PHE:CZ	1:d:798:MET:HE1	2.14	0.82
1:f:129:PHE:CE2	1:f:156:GLU:CB	2.62	0.82
1:2:827:LEU:HD22	1:3:795:PHE:CE1	2.15	0.82
1:H:129:PHE:CE2	1:H:156:GLU:CB	2.62	0.82
1:M:523:PHE:CZ	1:M:545:TRP:CE2	2.68	0.82
1:z:822:LEU:HB3	1:7:825:LEU:HD21	1.62	0.81
1:3:129:PHE:CE2	1:3:156:GLU:CB	2.62	0.81
1:AL:129:PHE:CE2	1:AL:156:GLU:CB	2.62	0.81
1:AO:846:PHE:CZ	1:AP:798:MET:HE1	2.14	0.81
1:s:461:ARG:HD2	1:w:473:TYR:CE2	2.16	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:523:PHE:CZ	1:8:545:TRP:CE2	2.68	0.81
1:AC:846:PHE:CZ	1:AD:798:MET:HE1	2.15	0.81
1:A:827:LEU:HD22	1:B:795:PHE:CE1	2.15	0.81
1:B:129:PHE:CE2	1:B:156:GLU:CB	2.62	0.81
1:C:461:ARG:HD2	1:G:473:TYR:CE2	2.16	0.81
1:G:523:PHE:CZ	1:G:545:TRP:CE2	2.68	0.81
1:S:523:PHE:CZ	1:S:545:TRP:CE2	2.68	0.81
1:h:822:LEU:HB3	1:p:825:LEU:HD21	1.62	0.81
1:q:827:LEU:HD22	1:r:795:PHE:CE1	2.15	0.81
1:u:846:PHE:CZ	1:v:798:MET:HE1	2.14	0.81
1:I:461:ARG:HD2	1:M:473:TYR:CE2	2.16	0.81
1:e:827:LEU:HD22	1:f:795:PHE:CE1	2.15	0.81
1:k:523:PHE:CZ	1:k:545:TRP:CE2	2.68	0.81
1:o:846:PHE:CZ	1:p:798:MET:HE1	2.14	0.81
1:q:523:PHE:CZ	1:q:545:TRP:CE2	2.68	0.81
1:2:523:PHE:CZ	1:2:545:TRP:CE2	2.68	0.81
1:AE:523:PHE:CZ	1:AE:545:TRP:CE2	2.68	0.81
1:G:326:LEU:O	1:G:362:PRO:HA	1.81	0.81
1:y:461:ARG:HD2	1:2:473:TYR:CE2	2.16	0.81
1:6:846:PHE:CZ	1:7:798:MET:HE1	2.14	0.81
1:8:326:LEU:O	1:8:362:PRO:HA	1.81	0.81
1:Y:827:LEU:HD22	1:Z:795:PHE:CE1	2.15	0.81
1:m:461:ARG:HD2	1:q:473:TYR:CE2	2.16	0.81
1:n:595:SER:O	1:n:599:ILE:HG13	1.81	0.81
1:o:326:LEU:O	1:o:362:PRO:HA	1.81	0.81
1:0:846:PHE:CZ	1:1:798:MET:HE1	2.14	0.81
1:AC:326:LEU:O	1:AC:362:PRO:HA	1.81	0.81
1:AI:846:PHE:CZ	1:AJ:798:MET:HE1	2.15	0.81
1:S:827:LEU:HD22	1:T:795:PHE:CE1	2.15	0.81
1:Y:326:LEU:O	1:Y:362:PRO:HA	1.81	0.81
1:e:523:PHE:CZ	1:e:545:TRP:CE2	2.68	0.81
1:i:846:PHE:CZ	1:j:798:MET:HE1	2.14	0.81
1:w:827:LEU:HD22	1:x:795:PHE:CE1	2.15	0.81
1:AE:827:LEU:HD22	1:AF:795:PHE:CE1	2.14	0.81
1:J:595:SER:O	1:J:599:ILE:HG13	1.81	0.81
1:N:595:SER:O	1:N:599:ILE:HG13	1.81	0.81
1:V:595:SER:O	1:V:599:ILE:HG13	1.81	0.81
1:l:595:SER:O	1:l:599:ILE:HG13	1.81	0.81
1:A:473:TYR:CE2	1:AM:461:ARG:HD2	2.16	0.81
1:D:595:SER:O	1:D:599:ILE:HG13	1.81	0.81
1:A:326:LEU:O	1:A:362:PRO:HA	1.81	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:326:LEU:O	1:M:362:PRO:HA	1.81	0.81
1:w:523:PHE:CZ	1:w:545:TRP:CE2	2.68	0.81
1:4:461:ARG:HD2	1:8:473:TYR:CE2	2.16	0.81
1:AE:326:LEU:O	1:AE:362:PRO:HA	1.81	0.81
1:AK:523:PHE:CZ	1:AK:545:TRP:CE2	2.68	0.81
1:A:523:PHE:CZ	1:A:545:TRP:CE2	2.68	0.80
1:E:326:LEU:O	1:E:362:PRO:HA	1.81	0.80
1:W:326:LEU:O	1:W:362:PRO:HA	1.81	0.80
1:e:326:LEU:O	1:e:362:PRO:HA	1.81	0.80
1:f:595:SER:O	1:f:599:ILE:HG13	1.81	0.80
1:g:461:ARG:HD2	1:k:473:TYR:CE2	2.16	0.80
1:i:326:LEU:O	1:i:362:PRO:HA	1.81	0.80
1:q:326:LEU:O	1:q:362:PRO:HA	1.81	0.80
1:6:326:LEU:O	1:6:362:PRO:HA	1.81	0.80
1:8:827:LEU:HD22	1:9:795:PHE:CE1	2.15	0.80
1:Q:326:LEU:O	1:Q:362:PRO:HA	1.81	0.80
1:a:461:ARG:HD2	1:e:473:TYR:CE2	2.16	0.80
1:K:326:LEU:O	1:K:362:PRO:HA	1.81	0.80
1:O:461:ARG:HD2	1:S:473:TYR:CE2	2.16	0.80
1:k:794:LYS:HZ1	1:k:851:LEU:HD21	1.45	0.80
1:k:827:LEU:HD22	1:l:795:PHE:CE1	2.15	0.80
1:z:595:SER:O	1:z:599:ILE:HG13	1.81	0.80
1:9:595:SER:O	1:9:599:ILE:HG13	1.81	0.80
1:AF:595:SER:O	1:AF:599:ILE:HG13	1.81	0.80
1:AG:461:ARG:HD2	1:AK:473:TYR:CE2	2.16	0.80
1:T:595:SER:O	1:T:599:ILE:HG13	1.81	0.80
1:Y:523:PHE:CZ	1:Y:545:TRP:CE2	2.68	0.80
1:b:595:SER:O	1:b:599:ILE:HG13	1.81	0.80
1:5:595:SER:O	1:5:599:ILE:HG13	1.81	0.80
1:u:326:LEU:O	1:u:362:PRO:HA	1.81	0.80
1:5:822:LEU:HB3	1:AD:825:LEU:HD21	1.62	0.80
1:AB:595:SER:O	1:AB:599:ILE:HG13	1.81	0.80
1:AK:827:LEU:HD22	1:AL:795:PHE:CE1	2.15	0.80
1:AL:595:SER:O	1:AL:599:ILE:HG13	1.81	0.80
1:t:595:SER:O	1:t:599:ILE:HG13	1.81	0.80
1:w:326:LEU:O	1:w:362:PRO:HA	1.81	0.80
1:3:595:SER:O	1:3:599:ILE:HG13	1.81	0.80
1:AI:326:LEU:O	1:AI:362:PRO:HA	1.81	0.80
1:F:825:LEU:HD21	1:AN:822:LEU:HB3	1.62	0.80
1:q:794:LYS:HZ1	1:q:851:LEU:HD21	1.45	0.80
1:AA:461:ARG:HD2	1:AE:473:TYR:CE2	2.16	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:326:LEU:O	1:AO:362:PRO:HA	1.81	0.80
1:H:595:SER:O	1:H:599:ILE:HG13	1.81	0.80
1:b:822:LEU:HB3	1:j:825:LEU:HD21	1.62	0.80
1:h:595:SER:O	1:h:599:ILE:HG13	1.81	0.80
1:2:326:LEU:O	1:2:362:PRO:HA	1.81	0.80
1:D:822:LEU:HB3	1:L:825:LEU:HD21	1.62	0.80
1:J:822:LEU:HB3	1:R:825:LEU:HD21	1.62	0.80
1:P:822:LEU:HB3	1:X:825:LEU:HD21	1.62	0.80
1:2:794:LYS:NZ	1:2:851:LEU:HD21	1.97	0.80
1:AH:822:LEU:HB3	1:AP:825:LEU:HD21	1.62	0.80
1:U:461:ARG:HD2	1:Y:473:TYR:CE2	2.16	0.80
1:V:822:LEU:HB3	1:d:825:LEU:HD21	1.62	0.80
1:8:794:LYS:NZ	1:8:851:LEU:HD21	1.97	0.80
1:AH:595:SER:O	1:AH:599:ILE:HG13	1.81	0.80
1:A:794:LYS:NZ	1:A:851:LEU:HD21	1.97	0.79
1:Z:595:SER:O	1:Z:599:ILE:HG13	1.81	0.79
1:c:326:LEU:O	1:c:362:PRO:HA	1.81	0.79
1:r:595:SER:O	1:r:599:ILE:HG13	1.81	0.79
1:S:326:LEU:O	1:S:362:PRO:HA	1.81	0.79
1:AB:822:LEU:HB3	1:AJ:825:LEU:HD21	1.62	0.79
1:x:595:SER:O	1:x:599:ILE:HG13	1.81	0.79
1:AK:326:LEU:O	1:AK:362:PRO:HA	1.81	0.79
1:0:326:LEU:O	1:0:362:PRO:HA	1.81	0.79
1:AN:595:SER:O	1:AN:599:ILE:HG13	1.81	0.79
1:B:595:SER:O	1:B:599:ILE:HG13	1.81	0.79
1:E:523:PHE:CZ	1:E:545:TRP:CE2	2.71	0.79
1:M:794:LYS:NZ	1:M:851:LEU:HD21	1.97	0.79
1:P:595:SER:O	1:P:599:ILE:HG13	1.81	0.79
1:AO:523:PHE:CZ	1:AO:545:TRP:CE2	2.71	0.79
1:0:523:PHE:CZ	1:0:545:TRP:CE2	2.71	0.79
1:k:326:LEU:O	1:k:362:PRO:HA	1.81	0.79
1:w:794:LYS:NZ	1:w:851:LEU:HD21	1.97	0.79
1:6:523:PHE:CZ	1:6:545:TRP:CE2	2.71	0.79
1:G:794:LYS:NZ	1:G:851:LEU:HD21	1.97	0.79
1:P:129:PHE:CD2	1:P:156:GLU:OE1	2.36	0.79
1:S:794:LYS:NZ	1:S:851:LEU:HD21	1.97	0.79
1:i:523:PHE:CZ	1:i:545:TRP:CE2	2.71	0.79
1:u:523:PHE:CZ	1:u:545:TRP:CE2	2.71	0.79
1:AE:794:LYS:NZ	1:AE:851:LEU:HD21	1.97	0.79
1:AN:129:PHE:CD2	1:AN:156:GLU:OE1	2.36	0.79
1:K:523:PHE:CZ	1:K:545:TRP:CE2	2.71	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:523:PHE:CZ	1:c:545:TRP:CE2	2.71	0.79
1:5:129:PHE:CD2	1:5:156:GLU:OE1	2.36	0.79
1:AB:129:PHE:CD2	1:AB:156:GLU:OE1	2.36	0.78
1:D:129:PHE:CD2	1:D:156:GLU:OE1	2.36	0.78
1:AC:523:PHE:CZ	1:AC:545:TRP:CE2	2.71	0.78
1:AE:794:LYS:HZ1	1:AE:851:LEU:HD21	1.48	0.78
1:t:129:PHE:CD2	1:t:156:GLU:OE1	2.36	0.78
1:V:129:PHE:CD2	1:V:156:GLU:OE1	2.36	0.78
1:h:129:PHE:CD2	1:h:156:GLU:OE1	2.36	0.78
1:k:794:LYS:NZ	1:k:851:LEU:HD21	1.97	0.78
1:AI:523:PHE:CZ	1:AI:545:TRP:CE2	2.71	0.78
1:W:523:PHE:CZ	1:W:545:TRP:CE2	2.71	0.78
1:b:129:PHE:CD2	1:b:156:GLU:OE1	2.36	0.78
1:o:523:PHE:CZ	1:o:545:TRP:CE2	2.71	0.78
1:e:794:LYS:NZ	1:e:851:LEU:HD21	1.97	0.78
1:z:129:PHE:CD2	1:z:156:GLU:OE1	2.36	0.78
1:J:129:PHE:CD2	1:J:156:GLU:OE1	2.36	0.78
1:b:523:PHE:CZ	1:b:545:TRP:CE2	2.72	0.78
1:AK:794:LYS:HZ1	1:AK:851:LEU:HD21	1.47	0.78
1:V:523:PHE:CZ	1:V:545:TRP:CE2	2.72	0.78
1:Y:794:LYS:NZ	1:Y:851:LEU:HD21	1.97	0.78
1:AH:129:PHE:CD2	1:AH:156:GLU:OE1	2.36	0.78
1:AK:794:LYS:NZ	1:AK:851:LEU:HD21	1.97	0.78
1:D:523:PHE:CZ	1:D:545:TRP:CE2	2.72	0.78
1:N:523:PHE:CZ	1:N:545:TRP:CE2	2.72	0.78
1:q:794:LYS:NZ	1:q:851:LEU:HD21	1.97	0.78
1:7:129:PHE:HD2	1:7:156:GLU:CB	1.97	0.78
1:AN:523:PHE:CZ	1:AN:545:TRP:CE2	2.72	0.78
1:l:523:PHE:CZ	1:l:545:TRP:CE2	2.73	0.77
1:X:129:PHE:HD2	1:X:156:GLU:CB	1.97	0.77
1:P:523:PHE:CZ	1:P:545:TRP:CE2	2.72	0.77
1:r:523:PHE:CZ	1:r:545:TRP:CE2	2.73	0.77
1:Q:523:PHE:CZ	1:Q:545:TRP:CE2	2.71	0.77
1:T:523:PHE:CZ	1:T:545:TRP:CE2	2.73	0.77
1:d:129:PHE:HD2	1:d:156:GLU:CB	1.97	0.77
1:n:129:PHE:CE1	1:n:156:GLU:HB2	2.20	0.77
1:n:129:PHE:CD2	1:n:156:GLU:OE1	2.36	0.77
1:AD:129:PHE:HD2	1:AD:156:GLU:CB	1.97	0.77
1:AN:129:PHE:CE1	1:AN:156:GLU:HB2	2.20	0.77
1:B:129:PHE:CZ	1:B:157:VAL:HG23	2.20	0.77
1:H:523:PHE:CZ	1:H:545:TRP:CE2	2.73	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:129:PHE:CE1	1:J:156:GLU:HB2	2.20	0.77
1:P:129:PHE:CE1	1:P:156:GLU:HB2	2.20	0.77
1:R:326:LEU:O	1:R:362:PRO:HA	1.85	0.77
1:Z:129:PHE:CZ	1:Z:157:VAL:HG23	2.20	0.77
1:f:129:PHE:CZ	1:f:157:VAL:HG23	2.20	0.77
1:f:523:PHE:CZ	1:f:545:TRP:CE2	2.73	0.77
1:5:129:PHE:CE1	1:5:156:GLU:HB2	2.20	0.77
1:F:326:LEU:O	1:F:362:PRO:HA	1.85	0.77
1:L:326:LEU:O	1:L:362:PRO:HA	1.85	0.77
1:X:326:LEU:O	1:X:362:PRO:HA	1.85	0.77
1:d:326:LEU:O	1:d:362:PRO:HA	1.85	0.77
1:h:523:PHE:CZ	1:h:545:TRP:CE2	2.72	0.77
1:1:326:LEU:O	1:1:362:PRO:HA	1.85	0.77
1:F:129:PHE:HD2	1:F:156:GLU:CB	1.97	0.77
1:H:129:PHE:CZ	1:H:157:VAL:HG23	2.20	0.77
1:9:523:PHE:CZ	1:9:545:TRP:CE2	2.72	0.77
1:AH:523:PHE:CZ	1:AH:545:TRP:CE2	2.72	0.77
1:AP:326:LEU:O	1:AP:362:PRO:HA	1.85	0.77
1:h:129:PHE:CE1	1:h:156:GLU:HB2	2.20	0.77
1:n:523:PHE:CZ	1:n:545:TRP:CE2	2.72	0.77
1:t:523:PHE:CZ	1:t:545:TRP:CE2	2.72	0.77
1:3:523:PHE:CZ	1:3:545:TRP:CE2	2.73	0.77
1:J:523:PHE:CZ	1:J:545:TRP:CE2	2.72	0.77
1:j:326:LEU:O	1:j:362:PRO:HA	1.85	0.77
1:7:326:LEU:O	1:7:362:PRO:HA	1.85	0.77
1:AH:129:PHE:CE1	1:AH:156:GLU:HB2	2.20	0.77
1:x:523:PHE:CZ	1:x:545:TRP:CE2	2.72	0.77
1:z:523:PHE:CZ	1:z:545:TRP:CE2	2.72	0.77
1:AB:129:PHE:CE1	1:AB:156:GLU:HB2	2.20	0.77
1:AF:523:PHE:CZ	1:AF:545:TRP:CE2	2.73	0.77
1:z:129:PHE:CE1	1:z:156:GLU:HB2	2.20	0.76
1:AJ:326:LEU:O	1:AJ:362:PRO:HA	1.85	0.76
1:b:129:PHE:CE1	1:b:156:GLU:HB2	2.20	0.76
1:A:794:LYS:HZ1	1:A:851:LEU:HD21	1.47	0.76
1:v:326:LEU:O	1:v:362:PRO:HA	1.85	0.76
1:Z:523:PHE:CZ	1:Z:545:TRP:CE2	2.73	0.76
1:B:523:PHE:CZ	1:B:545:TRP:CE2	2.73	0.76
1:D:129:PHE:CE1	1:D:156:GLU:HB2	2.20	0.76
1:1:129:PHE:HD2	1:1:156:GLU:CB	1.97	0.76
1:5:523:PHE:CZ	1:5:545:TRP:CE2	2.72	0.76
1:AL:129:PHE:CZ	1:AL:157:VAL:HG23	2.20	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:523:PHE:CZ	1:AL:545:TRP:CE2	2.72	0.76
1:AP:129:PHE:HD2	1:AP:156:GLU:CB	1.97	0.76
1:V:129:PHE:CE1	1:V:156:GLU:HB2	2.20	0.76
1:T:129:PHE:CZ	1:T:157:VAL:HG23	2.20	0.76
1:p:129:PHE:HD2	1:p:156:GLU:CB	1.97	0.76
1:L:129:PHE:HD2	1:L:156:GLU:CB	1.97	0.76
1:I:794:LYS:O	1:I:798:MET:HG3	1.86	0.76
1:j:129:PHE:HD2	1:j:156:GLU:CB	1.97	0.76
1:y:794:LYS:O	1:y:798:MET:HG3	1.86	0.76
1:AB:523:PHE:CZ	1:AB:545:TRP:CE2	2.72	0.76
1:AD:326:LEU:O	1:AD:362:PRO:HA	1.85	0.76
1:R:129:PHE:HD2	1:R:156:GLU:CB	1.97	0.76
1:l:129:PHE:CZ	1:l:157:VAL:HG23	2.20	0.76
1:p:326:LEU:O	1:p:362:PRO:HA	1.85	0.76
1:w:794:LYS:HZ1	1:w:851:LEU:HD21	1.49	0.76
1:AA:794:LYS:O	1:AA:798:MET:HG3	1.86	0.76
1:C:794:LYS:O	1:C:798:MET:HG3	1.86	0.75
1:t:129:PHE:CE1	1:t:156:GLU:HB2	2.20	0.75
1:3:129:PHE:CZ	1:3:157:VAL:HG23	2.20	0.75
1:N:129:PHE:CZ	1:N:157:VAL:HG23	2.20	0.75
1:4:794:LYS:O	1:4:798:MET:HG3	1.86	0.75
1:8:794:LYS:HZ1	1:8:851:LEU:HD21	1.50	0.75
1:9:129:PHE:CZ	1:9:157:VAL:HG23	2.20	0.75
1:U:794:LYS:O	1:U:798:MET:HG3	1.86	0.75
1:x:129:PHE:CZ	1:x:157:VAL:HG23	2.20	0.75
1:O:794:LYS:O	1:O:798:MET:HG3	1.86	0.75
1:g:794:LYS:O	1:g:798:MET:HG3	1.86	0.75
1:m:794:LYS:O	1:m:798:MET:HG3	1.86	0.75
1:n:326:LEU:O	1:n:362:PRO:HA	1.87	0.75
1:AB:326:LEU:O	1:AB:362:PRO:HA	1.87	0.75
1:2:794:LYS:HZ1	1:2:851:LEU:HD21	1.49	0.75
1:AG:794:LYS:O	1:AG:798:MET:HG3	1.86	0.75
1:h:326:LEU:O	1:h:362:PRO:HA	1.87	0.75
1:5:326:LEU:O	1:5:362:PRO:HA	1.87	0.75
1:r:129:PHE:CZ	1:r:157:VAL:HG23	2.20	0.75
1:D:326:LEU:O	1:D:362:PRO:HA	1.87	0.75
1:V:326:LEU:O	1:V:362:PRO:HA	1.87	0.75
1:AF:129:PHE:CZ	1:AF:157:VAL:HG23	2.20	0.74
1:AJ:129:PHE:HD2	1:AJ:156:GLU:CB	1.97	0.74
1:s:794:LYS:O	1:s:798:MET:HG3	1.86	0.74
1:P:326:LEU:O	1:P:362:PRO:HA	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:794:LYS:O	1:a:798:MET:HG3	1.86	0.74
1:t:326:LEU:O	1:t:362:PRO:HA	1.87	0.74
1:AN:326:LEU:O	1:AN:362:PRO:HA	1.87	0.74
1:J:326:LEU:O	1:J:362:PRO:HA	1.87	0.74
1:v:129:PHE:HD2	1:v:156:GLU:CB	1.97	0.74
1:AH:326:LEU:O	1:AH:362:PRO:HA	1.87	0.74
1:AM:794:LYS:O	1:AM:798:MET:HG3	1.86	0.74
1:B:326:LEU:O	1:B:362:PRO:HA	1.88	0.74
1:z:326:LEU:O	1:z:362:PRO:HA	1.87	0.73
1:3:326:LEU:O	1:3:362:PRO:HA	1.88	0.73
1:H:326:LEU:O	1:H:362:PRO:HA	1.88	0.73
1:9:326:LEU:O	1:9:362:PRO:HA	1.88	0.73
1:T:326:LEU:O	1:T:362:PRO:HA	1.88	0.73
1:Z:326:LEU:O	1:Z:362:PRO:HA	1.88	0.73
1:b:326:LEU:O	1:b:362:PRO:HA	1.87	0.73
1:AL:326:LEU:O	1:AL:362:PRO:HA	1.88	0.73
1:o:523:PHE:CE2	1:o:545:TRP:CD1	2.77	0.73
1:J:129:PHE:CE2	1:J:156:GLU:OE1	2.42	0.73
1:K:523:PHE:CE2	1:K:545:TRP:CD1	2.77	0.73
1:AB:129:PHE:CE2	1:AB:156:GLU:OE1	2.42	0.73
1:l:326:LEU:O	1:l:362:PRO:HA	1.88	0.73
1:r:326:LEU:O	1:r:362:PRO:HA	1.88	0.73
1:z:129:PHE:CE2	1:z:156:GLU:OE1	2.42	0.73
1:AC:523:PHE:CE2	1:AC:545:TRP:CD1	2.77	0.73
1:E:523:PHE:CE2	1:E:545:TRP:CD1	2.77	0.73
1:V:129:PHE:CE2	1:V:156:GLU:OE1	2.42	0.73
1:n:129:PHE:CE2	1:n:156:GLU:OE1	2.42	0.73
1:AH:129:PHE:CE2	1:AH:156:GLU:OE1	2.42	0.73
1:P:129:PHE:CE2	1:P:156:GLU:OE1	2.42	0.72
1:Q:523:PHE:CE2	1:Q:545:TRP:CD1	2.77	0.72
1:i:523:PHE:CE2	1:i:545:TRP:CD1	2.77	0.72
1:u:523:PHE:CE2	1:u:545:TRP:CD1	2.77	0.72
1:6:523:PHE:CE2	1:6:545:TRP:CD1	2.77	0.72
1:b:129:PHE:CE2	1:b:156:GLU:OE1	2.42	0.72
1:f:326:LEU:O	1:f:362:PRO:HA	1.88	0.72
1:AI:523:PHE:CE2	1:AI:545:TRP:CD1	2.77	0.72
1:h:129:PHE:CE2	1:h:156:GLU:OE1	2.42	0.72
1:D:129:PHE:CE2	1:D:156:GLU:OE1	2.42	0.72
1:F:825:LEU:CD2	1:AN:822:LEU:HB3	2.20	0.72
1:t:129:PHE:CE2	1:t:156:GLU:OE1	2.42	0.72
1:5:129:PHE:CE2	1:5:156:GLU:OE1	2.42	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:326:LEU:O	1:x:362:PRO:HA	1.88	0.72
1:AF:326:LEU:O	1:AF:362:PRO:HA	1.88	0.72
1:D:822:LEU:HB3	1:L:825:LEU:CD2	2.20	0.72
1:N:326:LEU:O	1:N:362:PRO:HA	1.88	0.72
1:m:326:LEU:O	1:m:362:PRO:HA	1.90	0.72
1:0:523:PHE:CE2	1:0:545:TRP:CD1	2.77	0.72
1:AG:326:LEU:O	1:AG:362:PRO:HA	1.90	0.72
1:AH:822:LEU:HB3	1:AP:825:LEU:CD2	2.20	0.72
1:c:523:PHE:CE2	1:c:545:TRP:CD1	2.77	0.72
1:g:326:LEU:O	1:g:362:PRO:HA	1.90	0.72
1:s:326:LEU:O	1:s:362:PRO:HA	1.90	0.72
1:y:326:LEU:O	1:y:362:PRO:HA	1.90	0.72
1:O:326:LEU:O	1:O:362:PRO:HA	1.90	0.72
1:W:523:PHE:CE2	1:W:545:TRP:CD1	2.77	0.72
1:a:326:LEU:O	1:a:362:PRO:HA	1.90	0.72
1:AB:822:LEU:HB3	1:AJ:825:LEU:CD2	2.20	0.72
1:AN:129:PHE:CE2	1:AN:156:GLU:OE1	2.42	0.72
1:AO:523:PHE:CE2	1:AO:545:TRP:CD1	2.77	0.72
1:J:523:PHE:CE2	1:J:545:TRP:CD1	2.78	0.71
1:n:523:PHE:CE2	1:n:545:TRP:CD1	2.78	0.71
1:4:326:LEU:O	1:4:362:PRO:HA	1.90	0.71
1:AM:326:LEU:O	1:AM:362:PRO:HA	1.90	0.71
1:I:326:LEU:O	1:I:362:PRO:HA	1.90	0.71
1:J:822:LEU:HB3	1:R:825:LEU:CD2	2.20	0.71
1:U:326:LEU:O	1:U:362:PRO:HA	1.90	0.71
1:h:523:PHE:CE2	1:h:545:TRP:CD1	2.78	0.71
1:P:523:PHE:CE2	1:P:545:TRP:CD1	2.78	0.71
1:D:523:PHE:CE2	1:D:545:TRP:CD1	2.78	0.71
1:5:822:LEU:HB3	1:AD:825:LEU:CD2	2.20	0.71
1:AA:326:LEU:O	1:AA:362:PRO:HA	1.90	0.71
1:t:523:PHE:CE2	1:t:545:TRP:CD1	2.78	0.71
1:P:822:LEU:HB3	1:X:825:LEU:CD2	2.20	0.71
1:b:523:PHE:CE2	1:b:545:TRP:CD1	2.78	0.71
1:z:822:LEU:HB3	1:7:825:LEU:CD2	2.20	0.71
1:AB:523:PHE:CE2	1:AB:545:TRP:CD1	2.79	0.71
1:AH:523:PHE:CE2	1:AH:545:TRP:CD1	2.78	0.71
1:V:523:PHE:CE2	1:V:545:TRP:CD1	2.78	0.71
1:5:523:PHE:CE2	1:5:545:TRP:CD1	2.78	0.70
1:J:795:PHE:CE1	1:Q:827:LEU:HD22	2.27	0.70
1:3:827:LEU:HD21	1:4:831:LEU:HB2	1.73	0.70
1:C:326:LEU:O	1:C:362:PRO:HA	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:822:LEU:HB3	1:d:825:LEU:CD2	2.20	0.70
1:b:795:PHE:CE1	1:i:827:LEU:HD22	2.27	0.70
1:h:795:PHE:CE1	1:o:827:LEU:HD22	2.27	0.70
1:t:822:LEU:HB3	1:1:825:LEU:CD2	2.20	0.70
1:x:827:LEU:HD21	1:y:831:LEU:HB2	1.73	0.70
1:z:795:PHE:CE1	1:6:827:LEU:HD22	2.27	0.70
1:AF:827:LEU:HD21	1:AG:831:LEU:HB2	1.73	0.70
1:b:822:LEU:HB3	1:j:825:LEU:CD2	2.20	0.70
1:r:827:LEU:HD21	1:s:831:LEU:HB2	1.73	0.70
1:5:795:PHE:CE1	1:AC:827:LEU:HD22	2.27	0.70
1:9:827:LEU:HD21	1:AA:831:LEU:HB2	1.73	0.70
1:AN:523:PHE:CE2	1:AN:545:TRP:CD1	2.78	0.70
1:n:822:LEU:HB3	1:v:825:LEU:CD2	2.20	0.70
1:t:795:PHE:CE1	1:0:827:LEU:HD22	2.27	0.70
1:z:523:PHE:CE2	1:z:545:TRP:CD1	2.78	0.70
1:AL:827:LEU:HD21	1:AM:831:LEU:HB2	1.73	0.70
1:h:822:LEU:HB3	1:p:825:LEU:CD2	2.20	0.70
1:P:795:PHE:CE1	1:W:827:LEU:HD22	2.27	0.70
1:AH:795:PHE:CE1	1:AO:827:LEU:HD22	2.27	0.70
1:B:827:LEU:HD21	1:C:831:LEU:HB2	1.73	0.70
1:l:827:LEU:HD21	1:m:831:LEU:HB2	1.73	0.70
1:n:795:PHE:CE1	1:u:827:LEU:HD22	2.27	0.70
1:D:795:PHE:CE1	1:K:827:LEU:HD22	2.27	0.70
1:V:795:PHE:CE1	1:c:827:LEU:HD22	2.27	0.70
1:Z:523:PHE:CE2	1:Z:545:TRP:CD1	2.80	0.70
1:B:523:PHE:CE2	1:B:545:TRP:CD1	2.80	0.69
1:O:533:ASP:C	1:O:533:ASP:OD1	2.36	0.69
1:T:523:PHE:CE2	1:T:545:TRP:CD1	2.80	0.69
1:f:523:PHE:CE2	1:f:545:TRP:CD1	2.80	0.69
1:g:533:ASP:OD1	1:g:533:ASP:C	2.36	0.69
1:x:523:PHE:CE2	1:x:545:TRP:CD1	2.80	0.69
1:E:827:LEU:HD22	1:AN:795:PHE:CE1	2.27	0.69
1:H:523:PHE:CE2	1:H:545:TRP:CD1	2.80	0.69
1:H:827:LEU:HD21	1:I:831:LEU:HB2	1.73	0.69
1:n:827:LEU:HD21	1:p:831:LEU:HB2	1.73	0.69
1:t:827:LEU:HD21	1:v:831:LEU:HB2	1.74	0.69
1:z:827:LEU:HD21	1:1:831:LEU:HB2	1.73	0.69
1:5:827:LEU:HD21	1:7:831:LEU:HB2	1.73	0.69
1:AB:827:LEU:HD21	1:AD:831:LEU:HB2	1.73	0.69
1:AH:827:LEU:HD21	1:AJ:831:LEU:HB2	1.73	0.69
1:AN:827:LEU:HD21	1:AP:831:LEU:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:827:LEU:HD21	1:F:831:LEU:HB2	1.73	0.69
1:U:533:ASP:C	1:U:533:ASP:OD1	2.36	0.69
1:r:523:PHE:CE2	1:r:545:TRP:CD1	2.80	0.69
1:3:523:PHE:CE2	1:3:545:TRP:CD1	2.80	0.69
1:AL:523:PHE:CE2	1:AL:545:TRP:CD1	2.80	0.69
1:C:533:ASP:C	1:C:533:ASP:OD1	2.36	0.69
1:R:129:PHE:HD2	1:R:156:GLU:HB3	1.58	0.69
1:X:129:PHE:HD2	1:X:156:GLU:HB3	1.58	0.69
1:h:827:LEU:HD21	1:j:831:LEU:HB2	1.73	0.69
1:AB:795:PHE:CE1	1:AI:827:LEU:HD22	2.27	0.69
1:N:523:PHE:CE2	1:N:545:TRP:CD1	2.80	0.69
1:a:533:ASP:C	1:a:533:ASP:OD1	2.36	0.69
1:f:827:LEU:HD21	1:g:831:LEU:HB2	1.73	0.69
1:l:523:PHE:CE2	1:l:545:TRP:CD1	2.80	0.69
1:s:533:ASP:C	1:s:533:ASP:OD1	2.36	0.69
1:AJ:129:PHE:HD2	1:AJ:156:GLU:HB3	1.58	0.69
1:J:827:LEU:HD21	1:L:831:LEU:HB2	1.73	0.69
1:b:827:LEU:HD21	1:d:831:LEU:HB2	1.73	0.69
1:y:533:ASP:C	1:y:533:ASP:OD1	2.36	0.69
1:m:533:ASP:C	1:m:533:ASP:OD1	2.36	0.69
1:AP:129:PHE:HD2	1:AP:156:GLU:HB3	1.58	0.69
1:N:827:LEU:HD21	1:O:831:LEU:HB2	1.73	0.68
1:d:129:PHE:HD2	1:d:156:GLU:HB3	1.58	0.68
1:9:523:PHE:CE2	1:9:545:TRP:CD1	2.80	0.68
1:AD:129:PHE:HD2	1:AD:156:GLU:HB3	1.58	0.68
1:V:827:LEU:HD21	1:X:831:LEU:HB2	1.73	0.68
1:AF:523:PHE:CE2	1:AF:545:TRP:CD1	2.80	0.68
1:AM:533:ASP:C	1:AM:533:ASP:OD1	2.36	0.68
1:L:129:PHE:HD2	1:L:156:GLU:HB3	1.58	0.68
1:U:779:LEU:HD11	1:Y:774:ARG:HG3	1.75	0.68
1:B:129:PHE:O	1:B:129:PHE:CD1	2.47	0.68
1:I:533:ASP:C	1:I:533:ASP:OD1	2.36	0.68
1:O:779:LEU:HD11	1:S:774:ARG:HG3	1.76	0.68
1:a:779:LEU:HD11	1:e:774:ARG:HG3	1.76	0.68
1:N:129:PHE:O	1:N:129:PHE:CD1	2.47	0.68
1:P:827:LEU:HD21	1:R:831:LEU:HB2	1.73	0.68
1:T:827:LEU:HD21	1:U:831:LEU:HB2	1.73	0.68
1:f:129:PHE:O	1:f:129:PHE:CD1	2.47	0.68
1:g:779:LEU:HD11	1:k:774:ARG:HG3	1.76	0.68
1:5:766:ARG:HH22	1:AC:768:LEU:HB3	1.59	0.68
1:AA:533:ASP:C	1:AA:533:ASP:OD1	2.36	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:129:PHE:O	1:H:129:PHE:CD1	2.47	0.68
1:I:779:LEU:HD11	1:M:774:ARG:HG3	1.76	0.68
1:Z:129:PHE:CD1	1:Z:129:PHE:O	2.47	0.68
1:z:766:ARG:HH22	1:6:768:LEU:HB3	1.59	0.68
1:7:129:PHE:HD2	1:7:156:GLU:HB3	1.58	0.68
1:9:129:PHE:CD1	1:9:129:PHE:O	2.47	0.68
1:AB:766:ARG:HH22	1:AI:768:LEU:HB3	1.59	0.68
1:F:129:PHE:HD2	1:F:156:GLU:HB3	1.58	0.67
1:r:129:PHE:CD1	1:r:129:PHE:O	2.47	0.67
1:Z:827:LEU:HD21	1:a:831:LEU:HB2	1.73	0.67
1:t:766:ARG:HH22	1:0:768:LEU:HB3	1.59	0.67
1:AF:129:PHE:O	1:AF:129:PHE:CD1	2.47	0.67
1:T:129:PHE:CD1	1:T:129:PHE:O	2.47	0.67
1:V:766:ARG:HH22	1:c:768:LEU:HB3	1.59	0.67
1:j:129:PHE:HD2	1:j:156:GLU:HB3	1.58	0.67
1:4:533:ASP:C	1:4:533:ASP:OD1	2.36	0.67
1:AH:766:ARG:HH22	1:AO:768:LEU:HB3	1.59	0.67
1:C:779:LEU:HD11	1:G:774:ARG:HG3	1.76	0.67
1:b:766:ARG:HH22	1:i:768:LEU:HB3	1.59	0.67
1:p:129:PHE:HD2	1:p:156:GLU:HB3	1.58	0.67
1:v:129:PHE:CZ	1:v:157:VAL:HG22	2.30	0.67
1:x:129:PHE:O	1:x:129:PHE:CD1	2.47	0.67
1:AG:533:ASP:C	1:AG:533:ASP:OD1	2.36	0.67
1:AL:129:PHE:O	1:AL:129:PHE:CD1	2.47	0.67
1:j:129:PHE:CZ	1:j:157:VAL:HG22	2.30	0.67
1:L:129:PHE:CZ	1:L:157:VAL:HG22	2.30	0.67
1:m:779:LEU:HD11	1:q:774:ARG:HG3	1.76	0.67
1:p:129:PHE:CZ	1:p:157:VAL:HG22	2.30	0.67
1:v:129:PHE:HD2	1:v:156:GLU:HB3	1.58	0.67
1:3:129:PHE:O	1:3:129:PHE:CD1	2.47	0.67
1:4:779:LEU:HD11	1:8:774:ARG:HG3	1.76	0.67
1:7:129:PHE:CZ	1:7:157:VAL:HG22	2.30	0.67
1:AA:779:LEU:HD11	1:AE:774:ARG:HG3	1.76	0.67
1:AD:129:PHE:CZ	1:AD:157:VAL:HG22	2.30	0.67
1:E:768:LEU:HB3	1:AN:766:ARG:HH22	1.59	0.67
1:A:774:ARG:HG3	1:AM:779:LEU:HD11	1.76	0.67
1:F:794:LYS:O	1:F:798:MET:HG3	1.95	0.67
1:X:129:PHE:CZ	1:X:157:VAL:HG22	2.30	0.67
1:1:129:PHE:HD2	1:1:156:GLU:HB3	1.58	0.67
1:D:766:ARG:HH22	1:K:768:LEU:HB3	1.59	0.67
1:R:129:PHE:CZ	1:R:157:VAL:HG22	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:794:LYS:O	1:R:798:MET:HG3	1.95	0.67
1:d:129:PHE:CZ	1:d:157:VAL:HG22	2.30	0.67
1:l:129:PHE:CD1	1:l:129:PHE:O	2.47	0.67
1:n:766:ARG:HH22	1:u:768:LEU:HB3	1.59	0.67
1:F:129:PHE:CZ	1:F:157:VAL:HG22	2.30	0.67
1:P:766:ARG:HH22	1:W:768:LEU:HB3	1.59	0.67
1:j:794:LYS:O	1:j:798:MET:HG3	1.95	0.67
1:y:779:LEU:HD11	1:2:774:ARG:HG3	1.76	0.67
1:L:794:LYS:O	1:L:798:MET:HG3	1.95	0.66
1:d:794:LYS:O	1:d:798:MET:HG3	1.95	0.66
1:e:523:PHE:CE2	1:e:545:TRP:CD1	2.84	0.66
1:h:766:ARG:HH22	1:o:768:LEU:HB3	1.59	0.66
1:1:129:PHE:CZ	1:1:157:VAL:HG22	2.30	0.66
1:G:523:PHE:CE2	1:G:545:TRP:CD1	2.84	0.66
1:Y:523:PHE:CE2	1:Y:545:TRP:CD1	2.84	0.66
1:AG:779:LEU:HD11	1:AK:774:ARG:HG3	1.76	0.66
1:AJ:129:PHE:CZ	1:AJ:157:VAL:HG22	2.30	0.66
1:A:523:PHE:CE2	1:A:545:TRP:CD1	2.84	0.66
1:X:794:LYS:O	1:X:798:MET:HG3	1.95	0.66
1:s:779:LEU:HD11	1:w:774:ARG:HG3	1.76	0.66
1:w:523:PHE:CE2	1:w:545:TRP:CD1	2.84	0.66
1:2:523:PHE:CE2	1:2:545:TRP:CD1	2.84	0.66
1:AP:794:LYS:O	1:AP:798:MET:HG3	1.95	0.66
1:k:523:PHE:CE2	1:k:545:TRP:CD1	2.84	0.66
1:S:523:PHE:CE2	1:S:545:TRP:CD1	2.84	0.66
1:C:32:PRO:HG2	1:G:78:THR:HG21	1.78	0.66
1:AP:129:PHE:CZ	1:AP:157:VAL:HG22	2.30	0.66
1:p:794:LYS:O	1:p:798:MET:HG3	1.95	0.66
1:AG:32:PRO:HG2	1:AK:78:THR:HG21	1.78	0.66
1:M:523:PHE:CE2	1:M:545:TRP:CD1	2.84	0.66
1:c:595:SER:O	1:c:599:ILE:HG13	1.96	0.66
1:4:32:PRO:HG2	1:8:78:THR:HG21	1.78	0.66
1:7:794:LYS:O	1:7:798:MET:HG3	1.95	0.66
1:AA:32:PRO:HG2	1:AE:78:THR:HG21	1.78	0.66
1:I:32:PRO:HG2	1:M:78:THR:HG21	1.78	0.65
1:J:766:ARG:HH22	1:Q:768:LEU:HB3	1.59	0.65
1:O:32:PRO:HG2	1:S:78:THR:HG21	1.78	0.65
1:W:595:SER:O	1:W:599:ILE:HG13	1.96	0.65
1:8:523:PHE:CE2	1:8:545:TRP:CD1	2.84	0.65
1:A:78:THR:HG21	1:AM:32:PRO:HG2	1.78	0.65
1:q:523:PHE:CE2	1:q:545:TRP:CD1	2.84	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:595:SER:O	1:6:599:ILE:HG13	1.97	0.65
1:AC:595:SER:O	1:AC:599:ILE:HG13	1.97	0.65
1:AD:794:LYS:O	1:AD:798:MET:HG3	1.95	0.65
1:AK:523:PHE:CE2	1:AK:545:TRP:CD1	2.84	0.65
1:U:32:PRO:HG2	1:Y:78:THR:HG21	1.78	0.65
1:1:794:LYS:O	1:1:798:MET:HG3	1.95	0.65
1:AI:595:SER:O	1:AI:599:ILE:HG13	1.96	0.65
1:Q:595:SER:O	1:Q:599:ILE:HG13	1.97	0.65
1:i:595:SER:O	1:i:599:ILE:HG13	1.97	0.65
1:P:794:LYS:HE2	1:P:798:MET:HE3	1.79	0.65
1:s:32:PRO:HG2	1:w:78:THR:HG21	1.78	0.65
1:v:794:LYS:O	1:v:798:MET:HG3	1.95	0.65
1:D:794:LYS:HE2	1:D:798:MET:HE3	1.79	0.65
1:J:794:LYS:HE2	1:J:798:MET:HE3	1.79	0.65
1:y:32:PRO:HG2	1:2:78:THR:HG21	1.78	0.65
1:K:595:SER:O	1:K:599:ILE:HG13	1.96	0.65
1:V:794:LYS:HE2	1:V:798:MET:HE3	1.79	0.65
1:m:32:PRO:HG2	1:q:78:THR:HG21	1.78	0.65
1:0:595:SER:O	1:0:599:ILE:HG13	1.97	0.65
1:AJ:794:LYS:O	1:AJ:798:MET:HG3	1.95	0.65
1:AN:794:LYS:HE2	1:AN:798:MET:HE3	1.79	0.65
1:r:129:PHE:CD2	1:r:156:GLU:HB3	2.31	0.65
1:z:523:PHE:CE2	1:z:545:TRP:CG	2.85	0.65
1:AO:595:SER:O	1:AO:599:ILE:HG13	1.97	0.65
1:E:595:SER:O	1:E:599:ILE:HG13	1.97	0.65
1:a:32:PRO:HG2	1:e:78:THR:HG21	1.78	0.65
1:l:129:PHE:CD2	1:l:156:GLU:HB3	2.31	0.65
1:t:523:PHE:CE2	1:t:545:TRP:CG	2.85	0.65
1:AE:523:PHE:CE2	1:AE:545:TRP:CD1	2.84	0.65
1:AF:129:PHE:CD2	1:AF:156:GLU:HB3	2.31	0.65
1:P:523:PHE:CE2	1:P:545:TRP:CG	2.85	0.64
1:V:523:PHE:CE2	1:V:545:TRP:CG	2.85	0.64
1:g:32:PRO:HG2	1:k:78:THR:HG21	1.78	0.64
1:5:523:PHE:CE2	1:5:545:TRP:CG	2.85	0.64
1:9:129:PHE:CD2	1:9:156:GLU:HB3	2.31	0.64
1:AH:794:LYS:HE2	1:AH:798:MET:HE3	1.79	0.64
1:J:523:PHE:CE2	1:J:545:TRP:CG	2.85	0.64
1:T:129:PHE:CD2	1:T:156:GLU:HB3	2.31	0.64
1:x:129:PHE:CD2	1:x:156:GLU:HB3	2.31	0.64
1:b:794:LYS:HE2	1:b:798:MET:HE3	1.79	0.64
1:o:595:SER:O	1:o:599:ILE:HG13	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:794:LYS:HE2	1:AB:798:MET:HE3	1.79	0.64
1:D:523:PHE:CE2	1:D:545:TRP:CG	2.85	0.64
1:b:523:PHE:CE2	1:b:545:TRP:CG	2.85	0.64
1:f:129:PHE:CD2	1:f:156:GLU:HB3	2.31	0.64
1:AL:129:PHE:CD2	1:AL:156:GLU:HB3	2.31	0.64
1:c:807:ILE:HG22	1:d:810:LEU:HD21	1.80	0.64
1:n:523:PHE:CE2	1:n:545:TRP:CG	2.85	0.64
1:AB:523:PHE:CE2	1:AB:545:TRP:CG	2.85	0.64
1:i:807:ILE:HG22	1:j:810:LEU:HD21	1.80	0.64
1:W:807:ILE:HG22	1:X:810:LEU:HD21	1.80	0.64
1:3:129:PHE:CD2	1:3:156:GLU:HB3	2.31	0.64
1:5:794:LYS:HE2	1:5:798:MET:HE3	1.79	0.64
1:B:129:PHE:CD2	1:B:156:GLU:HB3	2.31	0.64
1:D:839:VAL:HB	1:AN:837:THR:OG1	1.98	0.64
1:u:595:SER:O	1:u:599:ILE:HG13	1.97	0.64
1:z:837:THR:OG1	1:5:839:VAL:HB	1.98	0.64
1:AN:523:PHE:CE2	1:AN:545:TRP:CG	2.85	0.64
1:Q:523:PHE:CE2	1:Q:545:TRP:CG	2.87	0.63
1:V:837:THR:OG1	1:b:839:VAL:HB	1.98	0.63
1:h:523:PHE:CE2	1:h:545:TRP:CG	2.85	0.63
1:h:837:THR:OG1	1:n:839:VAL:HB	1.98	0.63
1:W:523:PHE:CE2	1:W:545:TRP:CG	2.87	0.63
1:Z:129:PHE:CD2	1:Z:156:GLU:HB3	2.32	0.63
1:5:837:THR:OG1	1:AB:839:VAL:HB	1.98	0.63
1:K:523:PHE:CE2	1:K:545:TRP:CG	2.87	0.63
1:h:794:LYS:HE2	1:h:798:MET:HE3	1.79	0.63
1:o:807:ILE:HG22	1:p:810:LEU:HD21	1.80	0.63
1:z:794:LYS:HE2	1:z:798:MET:HE3	1.79	0.63
1:AH:523:PHE:CE2	1:AH:545:TRP:CG	2.85	0.63
1:J:837:THR:OG1	1:P:839:VAL:HB	1.98	0.63
1:g:529:ILE:HD12	1:g:583:VAL:HG11	1.81	0.63
1:i:523:PHE:CE2	1:i:545:TRP:CG	2.87	0.63
1:a:529:ILE:HD12	1:a:583:VAL:HG11	1.81	0.63
1:c:523:PHE:CE2	1:c:545:TRP:CG	2.87	0.63
1:m:529:ILE:HD12	1:m:583:VAL:HG11	1.81	0.63
1:E:523:PHE:CE2	1:E:545:TRP:CG	2.87	0.63
1:o:523:PHE:CE2	1:o:545:TRP:CG	2.87	0.63
1:t:837:THR:OG1	1:z:839:VAL:HB	1.99	0.63
1:AC:807:ILE:HG22	1:AD:810:LEU:HD21	1.80	0.63
1:D:837:THR:OG1	1:J:839:VAL:HB	1.99	0.63
1:U:529:ILE:HD12	1:U:583:VAL:HG11	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:529:ILE:HD12	1:s:583:VAL:HG11	1.81	0.63
1:u:807:ILE:HG22	1:v:810:LEU:HD21	1.80	0.63
1:P:837:THR:OG1	1:V:839:VAL:HB	1.98	0.63
1:Q:807:ILE:HG22	1:R:810:LEU:HD21	1.80	0.63
1:f:523:PHE:CE2	1:f:545:TRP:CG	2.87	0.63
1:t:794:LYS:HE2	1:t:798:MET:HE3	1.79	0.63
1:6:807:ILE:HG22	1:7:810:LEU:HD21	1.80	0.63
1:AO:523:PHE:CE2	1:AO:545:TRP:CG	2.87	0.63
1:l:523:PHE:CE2	1:l:545:TRP:CG	2.87	0.63
1:AH:837:THR:OG1	1:AN:839:VAL:HB	1.99	0.63
1:H:129:PHE:CD2	1:H:156:GLU:HB3	2.32	0.62
1:Z:523:PHE:CE2	1:Z:545:TRP:CG	2.87	0.62
1:b:837:THR:OG1	1:h:839:VAL:HB	1.99	0.62
1:n:794:LYS:HE2	1:n:798:MET:HE3	1.79	0.62
1:AI:807:ILE:HG22	1:AJ:810:LEU:HD21	1.80	0.62
1:O:529:ILE:HD12	1:O:583:VAL:HG11	1.81	0.62
1:AF:523:PHE:CE2	1:AF:545:TRP:CG	2.87	0.62
1:u:523:PHE:CE2	1:u:545:TRP:CG	2.87	0.62
1:y:529:ILE:HD12	1:y:583:VAL:HG11	1.81	0.62
1:0:523:PHE:CE2	1:0:545:TRP:CG	2.87	0.62
1:9:523:PHE:CE2	1:9:545:TRP:CG	2.87	0.62
1:r:523:PHE:CE2	1:r:545:TRP:CG	2.87	0.62
1:x:723:LYS:O	1:x:727:GLU:HB2	2.00	0.62
1:6:523:PHE:CE2	1:6:545:TRP:CG	2.87	0.62
1:AL:523:PHE:CE2	1:AL:545:TRP:CG	2.87	0.62
1:T:523:PHE:CE2	1:T:545:TRP:CG	2.87	0.62
1:n:837:THR:OG1	1:t:839:VAL:HB	1.98	0.62
1:q:599:ILE:HG22	1:q:599:ILE:O	2.00	0.62
1:0:807:ILE:HG22	1:1:810:LEU:HD21	1.80	0.62
1:9:723:LYS:O	1:9:727:GLU:HB2	2.00	0.62
1:AB:837:THR:OG1	1:AH:839:VAL:HB	1.99	0.62
1:AI:523:PHE:CE2	1:AI:545:TRP:CG	2.87	0.62
1:AK:599:ILE:O	1:AK:599:ILE:HG22	2.00	0.62
1:AO:807:ILE:HG22	1:AP:810:LEU:HD21	1.80	0.62
1:N:523:PHE:CE2	1:N:545:TRP:CG	2.87	0.62
1:W:520:PRO:HA	1:W:545:TRP:O	2.00	0.62
1:w:599:ILE:HG22	1:w:599:ILE:O	2.00	0.62
1:x:523:PHE:CE2	1:x:545:TRP:CG	2.87	0.62
1:3:523:PHE:CE2	1:3:545:TRP:CG	2.87	0.62
1:E:520:PRO:HA	1:E:545:TRP:O	2.00	0.62
1:G:599:ILE:O	1:G:599:ILE:HG22	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:529:ILE:HD12	1:I:583:VAL:HG11	1.81	0.62
1:B:523:PHE:CE2	1:B:545:TRP:CG	2.87	0.62
1:S:599:ILE:O	1:S:599:ILE:HG22	2.00	0.62
1:2:232:ARG:HD3	1:2:266:GLU:HB2	1.82	0.62
1:8:599:ILE:O	1:8:599:ILE:HG22	2.00	0.62
1:AC:523:PHE:CE2	1:AC:545:TRP:CG	2.87	0.62
1:AF:723:LYS:O	1:AF:727:GLU:HB2	2.00	0.62
1:B:723:LYS:O	1:B:727:GLU:HB2	2.00	0.62
1:E:807:ILE:HG22	1:F:810:LEU:HD21	1.80	0.62
1:Y:599:ILE:HG22	1:Y:599:ILE:O	2.00	0.62
1:c:520:PRO:HA	1:c:545:TRP:O	2.00	0.62
1:u:520:PRO:HA	1:u:545:TRP:O	2.00	0.62
1:2:827:LEU:HD13	1:3:795:PHE:HD1	1.65	0.62
1:8:827:LEU:HD13	1:9:795:PHE:HD1	1.65	0.62
1:AE:599:ILE:O	1:AE:599:ILE:HG22	2.00	0.62
1:AE:827:LEU:HD13	1:AF:795:PHE:HD1	1.65	0.62
1:AK:827:LEU:HD13	1:AL:795:PHE:HD1	1.65	0.62
1:A:827:LEU:HD13	1:B:795:PHE:HD1	1.65	0.61
1:I:639:ASP:OD2	1:M:573:LYS:NZ	2.31	0.61
1:N:723:LYS:O	1:N:727:GLU:HB2	2.00	0.61
1:i:520:PRO:HA	1:i:545:TRP:O	2.00	0.61
1:k:599:ILE:O	1:k:599:ILE:HG22	2.00	0.61
1:8:232:ARG:HD3	1:8:266:GLU:HB2	1.82	0.61
1:A:473:TYR:CD2	1:AM:461:ARG:HD2	2.36	0.61
1:C:461:ARG:HD2	1:G:473:TYR:CD2	2.36	0.61
1:E:794:LYS:HZ1	1:E:851:LEU:HD21	1.64	0.61
1:H:723:LYS:O	1:H:727:GLU:HB2	2.00	0.61
1:M:232:ARG:HD3	1:M:266:GLU:HB2	1.82	0.61
1:Q:520:PRO:HA	1:Q:545:TRP:O	2.00	0.61
1:l:723:LYS:O	1:l:727:GLU:HB2	2.00	0.61
1:w:232:ARG:HD3	1:w:266:GLU:HB2	1.82	0.61
1:w:827:LEU:HD13	1:x:795:PHE:HD1	1.65	0.61
1:4:529:ILE:HD12	1:4:583:VAL:HG11	1.81	0.61
1:G:827:LEU:HD13	1:H:795:PHE:HD1	1.65	0.61
1:K:807:ILE:HG22	1:L:810:LEU:HD21	1.80	0.61
1:M:599:ILE:O	1:M:599:ILE:HG22	2.00	0.61
1:N:129:PHE:CD2	1:N:156:GLU:HB3	2.31	0.61
1:t:599:ILE:HG22	1:t:599:ILE:O	2.01	0.61
1:5:129:PHE:CE1	1:5:156:GLU:CB	2.84	0.61
1:AE:232:ARG:HD3	1:AE:266:GLU:HB2	1.82	0.61
1:AI:520:PRO:HA	1:AI:545:TRP:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:523:PHE:CE2	1:H:545:TRP:CG	2.87	0.61
1:S:232:ARG:HD3	1:S:266:GLU:HB2	1.82	0.61
1:S:520:PRO:HA	1:S:545:TRP:O	2.01	0.61
1:k:520:PRO:HA	1:k:545:TRP:O	2.01	0.61
1:n:129:PHE:CE1	1:n:156:GLU:CB	2.84	0.61
1:q:520:PRO:HA	1:q:545:TRP:O	2.01	0.61
1:4:461:ARG:HD2	1:8:473:TYR:CD2	2.36	0.61
1:6:520:PRO:HA	1:6:545:TRP:O	2.00	0.61
1:AG:529:ILE:HD12	1:AG:583:VAL:HG11	1.81	0.61
1:C:529:ILE:HD12	1:C:583:VAL:HG11	1.81	0.61
1:e:520:PRO:HA	1:e:545:TRP:O	2.01	0.61
1:h:129:PHE:CE1	1:h:156:GLU:CB	2.84	0.61
1:l:16:ILE:HD12	1:l:47:PRO:HD3	1.83	0.61
1:y:461:ARG:HD2	1:2:473:TYR:CD2	2.36	0.61
1:3:723:LYS:O	1:3:727:GLU:HB2	2.00	0.61
1:A:599:ILE:HG22	1:A:599:ILE:O	2.00	0.61
1:G:232:ARG:HD3	1:G:266:GLU:HB2	1.82	0.61
1:T:723:LYS:O	1:T:727:GLU:HB2	2.00	0.61
1:z:129:PHE:CE1	1:z:156:GLU:CB	2.84	0.61
1:AF:16:ILE:HD12	1:AF:47:PRO:HD3	1.83	0.61
1:AL:16:ILE:HD12	1:AL:47:PRO:HD3	1.83	0.61
1:AL:723:LYS:O	1:AL:727:GLU:HB2	2.00	0.61
1:AM:529:ILE:HD12	1:AM:583:VAL:HG11	1.81	0.61
1:h:599:ILE:O	1:h:599:ILE:HG22	2.01	0.61
1:q:827:LEU:HD13	1:r:795:PHE:HD1	1.65	0.61
1:r:16:ILE:HD12	1:r:47:PRO:HD3	1.83	0.61
1:2:599:ILE:O	1:2:599:ILE:HG22	2.00	0.61
1:AB:16:ILE:HD12	1:AB:47:PRO:HD3	1.83	0.61
1:U:461:ARG:HD2	1:Y:473:TYR:CD2	2.36	0.61
1:f:723:LYS:O	1:f:727:GLU:HB2	2.00	0.61
1:o:520:PRO:HA	1:o:545:TRP:O	2.00	0.61
1:q:232:ARG:HD3	1:q:266:GLU:HB2	1.82	0.61
1:AG:461:ARG:HD2	1:AK:473:TYR:CD2	2.36	0.61
1:AG:461:ARG:CD	1:AK:473:TYR:CE2	2.83	0.61
1:AH:16:ILE:HD12	1:AH:47:PRO:HD3	1.83	0.61
1:A:473:TYR:CE2	1:AM:461:ARG:CD	2.83	0.61
1:B:16:ILE:HD12	1:B:47:PRO:HD3	1.83	0.61
1:M:827:LEU:HD13	1:N:795:PHE:HD1	1.65	0.61
1:P:129:PHE:CE1	1:P:156:GLU:CB	2.84	0.61
1:V:129:PHE:CE1	1:V:156:GLU:CB	2.84	0.61
1:f:16:ILE:HD12	1:f:47:PRO:HD3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:827:LEU:HD13	1:l:795:PHE:HD1	1.65	0.61
1:2:520:PRO:HA	1:2:545:TRP:O	2.01	0.61
1:5:599:ILE:O	1:5:599:ILE:HG22	2.01	0.61
1:AB:129:PHE:CE1	1:AB:156:GLU:CB	2.84	0.61
1:AO:520:PRO:HA	1:AO:545:TRP:O	2.00	0.61
1:G:520:PRO:HA	1:G:545:TRP:O	2.01	0.61
1:I:461:ARG:HD2	1:M:473:TYR:CD2	2.36	0.61
1:K:520:PRO:HA	1:K:545:TRP:O	2.00	0.61
1:a:461:ARG:HD2	1:e:473:TYR:CD2	2.36	0.61
1:e:827:LEU:HD13	1:f:795:PHE:HD1	1.65	0.61
1:x:299:LYS:HB2	1:x:369:VAL:HG11	1.83	0.61
1:AC:520:PRO:HA	1:AC:545:TRP:O	2.00	0.61
1:AK:232:ARG:HD3	1:AK:266:GLU:HB2	1.82	0.61
1:B:299:LYS:HB2	1:B:369:VAL:HG11	1.83	0.60
1:H:299:LYS:HB2	1:H:369:VAL:HG11	1.84	0.60
1:J:599:ILE:O	1:J:599:ILE:HG22	2.01	0.60
1:P:599:ILE:O	1:P:599:ILE:HG22	2.01	0.60
1:U:717:GLU:HB2	1:Y:707:LEU:HD13	1.83	0.60
1:Y:232:ARG:HD3	1:Y:266:GLU:HB2	1.82	0.60
1:r:723:LYS:O	1:r:727:GLU:HB2	2.00	0.60
1:s:461:ARG:HD2	1:w:473:TYR:CD2	2.36	0.60
1:z:599:ILE:O	1:z:599:ILE:HG22	2.01	0.60
1:3:299:LYS:HB2	1:3:369:VAL:HG11	1.83	0.60
1:AA:461:ARG:CD	1:AE:473:TYR:CE2	2.83	0.60
1:AA:529:ILE:HD12	1:AA:583:VAL:HG11	1.81	0.60
1:J:129:PHE:CE1	1:J:156:GLU:CB	2.84	0.60
1:K:523:PHE:CZ	1:K:545:TRP:CD1	2.90	0.60
1:M:520:PRO:HA	1:M:545:TRP:O	2.01	0.60
1:V:16:ILE:HD12	1:V:47:PRO:HD3	1.83	0.60
1:e:599:ILE:O	1:e:599:ILE:HG22	2.00	0.60
1:m:639:ASP:OD2	1:q:573:LYS:NZ	2.31	0.60
1:0:520:PRO:HA	1:0:545:TRP:O	2.00	0.60
1:6:523:PHE:CZ	1:6:545:TRP:CD1	2.89	0.60
1:AA:461:ARG:HD2	1:AE:473:TYR:CD2	2.36	0.60
1:AN:16:ILE:HD12	1:AN:47:PRO:HD3	1.83	0.60
1:AN:599:ILE:O	1:AN:599:ILE:HG22	2.01	0.60
1:C:461:ARG:CD	1:G:473:TYR:CE2	2.83	0.60
1:E:523:PHE:CZ	1:E:545:TRP:CD1	2.90	0.60
1:N:299:LYS:HB2	1:N:369:VAL:HG11	1.83	0.60
1:O:461:ARG:HD2	1:S:473:TYR:CD2	2.36	0.60
1:P:16:ILE:HD12	1:P:47:PRO:HD3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:717:GLU:HB2	1:e:707:LEU:HD13	1.84	0.60
1:m:461:ARG:HD2	1:q:473:TYR:CD2	2.35	0.60
1:t:129:PHE:CE1	1:t:156:GLU:CB	2.84	0.60
1:w:520:PRO:HA	1:w:545:TRP:O	2.01	0.60
1:y:717:GLU:HB2	1:2:707:LEU:HD13	1.84	0.60
1:0:523:PHE:CZ	1:0:545:TRP:CD1	2.90	0.60
1:5:16:ILE:HD12	1:5:47:PRO:HD3	1.83	0.60
1:9:299:LYS:HB2	1:9:369:VAL:HG11	1.83	0.60
1:AA:717:GLU:HB2	1:AE:707:LEU:HD13	1.84	0.60
1:AA:732:ALA:HB2	1:AE:722:ALA:HB1	1.84	0.60
1:AC:523:PHE:CZ	1:AC:545:TRP:CD1	2.90	0.60
1:AF:299:LYS:HB2	1:AF:369:VAL:HG11	1.83	0.60
1:AL:299:LYS:HB2	1:AL:369:VAL:HG11	1.84	0.60
1:AL:599:ILE:HG22	1:AL:599:ILE:O	2.02	0.60
1:A:232:ARG:HD3	1:A:266:GLU:HB2	1.82	0.60
1:N:599:ILE:HG22	1:N:599:ILE:O	2.01	0.60
1:O:461:ARG:CD	1:S:473:TYR:CE2	2.83	0.60
1:U:461:ARG:CD	1:Y:473:TYR:CE2	2.83	0.60
1:Z:723:LYS:O	1:Z:727:GLU:HB2	2.00	0.60
1:a:461:ARG:CD	1:e:473:TYR:CE2	2.83	0.60
1:o:523:PHE:CZ	1:o:545:TRP:CD1	2.89	0.60
1:r:299:LYS:HB2	1:r:369:VAL:HG11	1.83	0.60
1:s:717:GLU:HB2	1:w:707:LEU:HD13	1.84	0.60
1:u:523:PHE:CZ	1:u:545:TRP:CD1	2.90	0.60
1:x:16:ILE:HD12	1:x:47:PRO:HD3	1.83	0.60
1:y:732:ALA:HB2	1:2:722:ALA:HB1	1.84	0.60
1:9:16:ILE:HD12	1:9:47:PRO:HD3	1.83	0.60
1:AI:523:PHE:CZ	1:AI:545:TRP:CD1	2.90	0.60
1:AO:523:PHE:CZ	1:AO:545:TRP:CD1	2.89	0.60
1:B:599:ILE:O	1:B:599:ILE:HG22	2.01	0.60
1:D:129:PHE:CE1	1:D:156:GLU:CB	2.84	0.60
1:H:599:ILE:O	1:H:599:ILE:HG22	2.02	0.60
1:I:461:ARG:CD	1:M:473:TYR:CE2	2.83	0.60
1:I:717:GLU:HB2	1:M:707:LEU:HD13	1.84	0.60
1:Q:523:PHE:CZ	1:Q:545:TRP:CD1	2.90	0.60
1:b:16:ILE:HD12	1:b:47:PRO:HD3	1.83	0.60
1:b:129:PHE:CE1	1:b:156:GLU:CB	2.84	0.60
1:g:461:ARG:HD2	1:k:473:TYR:CD2	2.35	0.60
1:g:461:ARG:CD	1:k:473:TYR:CE2	2.83	0.60
1:AE:523:PHE:CZ	1:AE:545:TRP:CD2	2.90	0.60
1:AK:523:PHE:CZ	1:AK:545:TRP:CD2	2.90	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:520:PRO:HA	1:A:545:TRP:O	2.01	0.60
1:A:523:PHE:CZ	1:A:545:TRP:CD2	2.90	0.60
1:A:707:LEU:HD13	1:AM:717:GLU:HB2	1.84	0.60
1:K:722:ALA:HB1	1:L:732:ALA:HB2	1.83	0.60
1:O:717:GLU:HB2	1:S:707:LEU:HD13	1.84	0.60
1:Y:520:PRO:HA	1:Y:545:TRP:O	2.01	0.60
1:Z:16:ILE:HD12	1:Z:47:PRO:HD3	1.83	0.60
1:e:523:PHE:CE1	1:e:545:TRP:NE1	2.70	0.60
1:g:732:ALA:HB2	1:k:722:ALA:HB1	1.84	0.60
1:h:16:ILE:HD12	1:h:47:PRO:HD3	1.83	0.60
1:k:232:ARG:HD3	1:k:266:GLU:HB2	1.82	0.60
1:m:717:GLU:HB2	1:q:707:LEU:HD13	1.84	0.60
1:n:599:ILE:O	1:n:599:ILE:HG22	2.01	0.60
1:q:523:PHE:CE1	1:q:545:TRP:NE1	2.70	0.60
1:4:717:GLU:HB2	1:8:707:LEU:HD13	1.83	0.60
1:8:520:PRO:HA	1:8:545:TRP:O	2.01	0.60
1:AN:129:PHE:CE1	1:AN:156:GLU:CB	2.84	0.60
1:H:16:ILE:HD12	1:H:47:PRO:HD3	1.83	0.60
1:a:732:ALA:HB2	1:e:722:ALA:HB1	1.84	0.60
1:8:523:PHE:CZ	1:8:545:TRP:CD2	2.90	0.60
1:G:523:PHE:CZ	1:G:545:TRP:CD2	2.90	0.60
1:M:523:PHE:CE1	1:M:545:TRP:NE1	2.70	0.60
1:O:732:ALA:HB2	1:S:722:ALA:HB1	1.84	0.60
1:T:299:LYS:HB2	1:T:369:VAL:HG11	1.83	0.60
1:W:523:PHE:CZ	1:W:545:TRP:CD1	2.90	0.60
1:c:523:PHE:CZ	1:c:545:TRP:CD1	2.90	0.60
1:m:461:ARG:CD	1:q:473:TYR:CE2	2.83	0.60
1:4:461:ARG:CD	1:8:473:TYR:CE2	2.83	0.60
1:AE:520:PRO:HA	1:AE:545:TRP:O	2.01	0.60
1:AF:599:ILE:O	1:AF:599:ILE:HG22	2.01	0.60
1:AG:717:GLU:HB2	1:AK:707:LEU:HD13	1.84	0.60
1:AH:599:ILE:O	1:AH:599:ILE:HG22	2.01	0.60
1:C:717:GLU:HB2	1:G:707:LEU:HD13	1.84	0.60
1:E:722:ALA:HB1	1:F:732:ALA:HB2	1.83	0.60
1:I:825:LEU:HD21	1:N:822:LEU:HB3	1.84	0.60
1:J:16:ILE:HD12	1:J:47:PRO:HD3	1.83	0.60
1:S:827:LEU:HD13	1:T:795:PHE:HD1	1.65	0.60
1:Y:523:PHE:CE1	1:Y:545:TRP:NE1	2.70	0.60
1:g:717:GLU:HB2	1:k:707:LEU:HD13	1.84	0.60
1:i:523:PHE:CZ	1:i:545:TRP:CD1	2.90	0.60
1:m:732:ALA:HB2	1:q:722:ALA:HB1	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:794:LYS:HZ1	1:AC:851:LEU:HD21	1.65	0.60
1:AK:520:PRO:HA	1:AK:545:TRP:O	2.01	0.60
1:AK:523:PHE:CZ	1:AK:545:TRP:NE1	2.70	0.60
1:A:523:PHE:CZ	1:A:545:TRP:NE1	2.70	0.60
1:l:599:ILE:HG22	1:l:599:ILE:O	2.02	0.60
1:n:16:ILE:HD12	1:n:47:PRO:HD3	1.83	0.60
1:s:732:ALA:HB2	1:w:722:ALA:HB1	1.84	0.60
1:2:523:PHE:CZ	1:2:545:TRP:NE1	2.70	0.60
1:2:523:PHE:CZ	1:2:545:TRP:CD2	2.90	0.60
1:2:523:PHE:CE1	1:2:545:TRP:NE1	2.70	0.60
1:8:523:PHE:CE1	1:8:545:TRP:NE1	2.70	0.60
1:AE:523:PHE:CZ	1:AE:545:TRP:NE1	2.70	0.60
1:AH:129:PHE:CE1	1:AH:156:GLU:CB	2.84	0.60
1:AO:722:ALA:HB1	1:AP:732:ALA:HB2	1.84	0.60
1:A:722:ALA:HB1	1:AM:732:ALA:HB2	1.84	0.59
1:C:732:ALA:HB2	1:G:722:ALA:HB1	1.84	0.59
1:D:16:ILE:HD12	1:D:47:PRO:HD3	1.83	0.59
1:M:523:PHE:CZ	1:M:545:TRP:CD2	2.90	0.59
1:S:523:PHE:CE1	1:S:545:TRP:NE1	2.70	0.59
1:W:722:ALA:HB1	1:X:732:ALA:HB2	1.83	0.59
1:e:232:ARG:HD3	1:e:266:GLU:HB2	1.82	0.59
1:l:299:LYS:HB2	1:l:369:VAL:HG11	1.84	0.59
1:u:523:PHE:CZ	1:u:545:TRP:CD2	2.90	0.59
1:z:16:ILE:HD12	1:z:47:PRO:HD3	1.83	0.59
1:9:599:ILE:HG22	1:9:599:ILE:O	2.01	0.59
1:AA:639:ASP:OD2	1:AE:573:LYS:NZ	2.31	0.59
1:AE:523:PHE:CE1	1:AE:545:TRP:NE1	2.70	0.59
1:o:523:PHE:CZ	1:o:545:TRP:CD2	2.90	0.59
1:AI:722:ALA:HB1	1:AJ:732:ALA:HB2	1.83	0.59
1:C:825:LEU:HD21	1:H:822:LEU:HB3	1.84	0.59
1:D:599:ILE:O	1:D:599:ILE:HG22	2.01	0.59
1:a:639:ASP:OD2	1:e:573:LYS:NZ	2.31	0.59
1:k:523:PHE:CE1	1:k:545:TRP:NE1	2.70	0.59
1:8:523:PHE:CZ	1:8:545:TRP:NE1	2.70	0.59
1:G:523:PHE:CZ	1:G:545:TRP:NE1	2.70	0.59
1:O:825:LEU:HD21	1:T:822:LEU:HB3	1.84	0.59
1:Y:827:LEU:HD13	1:Z:795:PHE:HD1	1.65	0.59
1:b:599:ILE:O	1:b:599:ILE:HG22	2.01	0.59
1:s:461:ARG:CD	1:w:473:TYR:CE2	2.83	0.59
1:w:523:PHE:CZ	1:w:545:TRP:NE1	2.70	0.59
1:0:523:PHE:CZ	1:0:545:TRP:CD2	2.90	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:523:PHE:CZ	1:AI:545:TRP:CD2	2.90	0.59
1:AK:523:PHE:CE1	1:AK:545:TRP:NE1	2.70	0.59
1:V:599:ILE:HG22	1:V:599:ILE:O	2.01	0.59
1:t:16:ILE:HD12	1:t:47:PRO:HD3	1.83	0.59
1:t:707:LEU:HD13	1:0:717:GLU:HB2	1.85	0.59
1:4:732:ALA:HB2	1:8:722:ALA:HB1	1.84	0.59
1:AG:732:ALA:HB2	1:AK:722:ALA:HB1	1.84	0.59
1:AO:523:PHE:CZ	1:AO:545:TRP:CD2	2.90	0.59
1:N:16:ILE:HD12	1:N:47:PRO:HD3	1.83	0.59
1:Q:722:ALA:HB1	1:R:732:ALA:HB2	1.84	0.59
1:S:523:PHE:CZ	1:S:545:TRP:CD2	2.90	0.59
1:h:707:LEU:HD13	1:o:717:GLU:HB2	1.85	0.59
1:i:523:PHE:CZ	1:i:545:TRP:CD2	2.90	0.59
1:r:599:ILE:O	1:r:599:ILE:HG22	2.02	0.59
1:u:722:ALA:HB1	1:v:732:ALA:HB2	1.83	0.59
1:w:523:PHE:CZ	1:w:545:TRP:CD2	2.90	0.59
1:w:523:PHE:CE1	1:w:545:TRP:NE1	2.70	0.59
1:3:16:ILE:HD12	1:3:47:PRO:HD3	1.83	0.59
1:5:707:LEU:HD13	1:AC:717:GLU:HB2	1.85	0.59
1:A:523:PHE:CE1	1:A:545:TRP:NE1	2.70	0.59
1:C:639:ASP:OD2	1:G:573:LYS:NZ	2.31	0.59
1:U:732:ALA:HB2	1:Y:722:ALA:HB1	1.84	0.59
1:y:461:ARG:CD	1:2:473:TYR:CE2	2.84	0.59
1:3:599:ILE:HG22	1:3:599:ILE:O	2.01	0.59
1:AC:523:PHE:CZ	1:AC:545:TRP:CD2	2.90	0.59
1:E:523:PHE:CZ	1:E:545:TRP:CD2	2.90	0.59
1:T:16:ILE:HD12	1:T:47:PRO:HD3	1.83	0.59
1:n:707:LEU:HD13	1:u:717:GLU:HB2	1.85	0.59
1:z:707:LEU:HD13	1:6:717:GLU:HB2	1.85	0.59
1:0:722:ALA:HB1	1:1:732:ALA:HB2	1.83	0.59
1:6:523:PHE:CZ	1:6:545:TRP:CD2	2.90	0.59
1:AC:722:ALA:HB1	1:AD:732:ALA:HB2	1.83	0.59
1:G:523:PHE:CE1	1:G:545:TRP:NE1	2.70	0.59
1:Z:299:LYS:HB2	1:Z:369:VAL:HG11	1.83	0.59
1:k:66:VAL:HG22	1:k:84:ARG:HD3	1.85	0.59
1:AB:707:LEU:HD13	1:AI:717:GLU:HB2	1.85	0.59
1:Q:523:PHE:CZ	1:Q:545:TRP:CD2	2.90	0.59
1:S:66:VAL:HG22	1:S:84:ARG:HD3	1.85	0.59
1:c:523:PHE:CZ	1:c:545:TRP:CD2	2.90	0.59
1:e:523:PHE:CZ	1:e:545:TRP:NE1	2.70	0.59
1:k:523:PHE:CZ	1:k:545:TRP:CD2	2.90	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:825:LEU:HD21	1:r:822:LEU:HB3	1.84	0.59
1:s:825:LEU:HD21	1:x:822:LEU:HB3	1.84	0.59
1:AC:523:PHE:CZ	1:AC:545:TRP:NE1	2.71	0.59
1:AH:707:LEU:HD13	1:AO:717:GLU:HB2	1.85	0.59
1:K:523:PHE:CZ	1:K:545:TRP:CD2	2.90	0.58
1:T:599:ILE:HG22	1:T:599:ILE:O	2.01	0.58
1:b:707:LEU:HD13	1:i:717:GLU:HB2	1.85	0.58
1:e:523:PHE:CZ	1:e:545:TRP:CD2	2.90	0.58
1:f:299:LYS:HB2	1:f:369:VAL:HG11	1.83	0.58
1:o:722:ALA:HB1	1:p:732:ALA:HB2	1.83	0.58
1:q:523:PHE:CZ	1:q:545:TRP:CD2	2.90	0.58
1:6:523:PHE:CZ	1:6:545:TRP:NE1	2.71	0.58
1:E:523:PHE:CZ	1:E:545:TRP:NE1	2.71	0.58
1:V:707:LEU:HD13	1:c:717:GLU:HB2	1.85	0.58
1:W:523:PHE:CZ	1:W:545:TRP:CD2	2.90	0.58
1:Y:523:PHE:CZ	1:Y:545:TRP:NE1	2.70	0.58
1:Z:599:ILE:O	1:Z:599:ILE:HG22	2.01	0.58
1:c:722:ALA:HB1	1:d:732:ALA:HB2	1.83	0.58
1:f:599:ILE:HG22	1:f:599:ILE:O	2.01	0.58
1:k:523:PHE:CZ	1:k:545:TRP:NE1	2.70	0.58
1:q:523:PHE:CZ	1:q:545:TRP:CD1	2.92	0.58
1:x:599:ILE:O	1:x:599:ILE:HG22	2.01	0.58
1:B:822:LEU:HB3	1:AM:825:LEU:HD21	1.84	0.58
1:M:523:PHE:CZ	1:M:545:TRP:CD1	2.92	0.58
1:Y:523:PHE:CZ	1:Y:545:TRP:CD2	2.90	0.58
1:A:523:PHE:CZ	1:A:545:TRP:CD1	2.92	0.58
1:G:66:VAL:HG22	1:G:84:ARG:HD3	1.85	0.58
1:G:523:PHE:CZ	1:G:545:TRP:CD1	2.92	0.58
1:M:523:PHE:CZ	1:M:545:TRP:NE1	2.70	0.58
1:S:523:PHE:CZ	1:S:545:TRP:NE1	2.70	0.58
1:U:825:LEU:HD21	1:Z:822:LEU:HB3	1.84	0.58
1:Y:66:VAL:HG22	1:Y:84:ARG:HD3	1.85	0.58
1:e:523:PHE:CZ	1:e:545:TRP:CD1	2.92	0.58
1:w:523:PHE:CZ	1:w:545:TRP:CD1	2.92	0.58
1:y:825:LEU:HD21	1:3:822:LEU:HB3	1.84	0.58
1:AA:825:LEU:HD21	1:AF:822:LEU:HB3	1.84	0.58
1:AI:523:PHE:CZ	1:AI:545:TRP:NE1	2.71	0.58
1:P:707:LEU:HD13	1:W:717:GLU:HB2	1.85	0.58
1:g:825:LEU:HD21	1:l:822:LEU:HB3	1.84	0.58
1:k:523:PHE:CZ	1:k:545:TRP:CD1	2.92	0.58
1:q:523:PHE:CZ	1:q:545:TRP:NE1	2.70	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:523:PHE:CZ	1:u:545:TRP:NE1	2.71	0.58
1:w:66:VAL:HG22	1:w:84:ARG:HD3	1.85	0.58
1:0:523:PHE:CZ	1:0:545:TRP:NE1	2.71	0.58
1:4:639:ASP:OD2	1:8:573:LYS:NZ	2.31	0.58
1:AB:599:ILE:O	1:AB:599:ILE:HG22	2.01	0.58
1:AK:523:PHE:CZ	1:AK:545:TRP:CD1	2.92	0.58
1:E:717:GLU:HB2	1:AN:707:LEU:HD13	1.85	0.58
1:K:523:PHE:CZ	1:K:545:TRP:NE1	2.71	0.58
1:K:529:ILE:HD12	1:K:583:VAL:HG11	1.86	0.58
1:S:523:PHE:CZ	1:S:545:TRP:CD1	2.92	0.58
1:Y:523:PHE:CZ	1:Y:545:TRP:CD1	2.92	0.58
1:i:529:ILE:HD12	1:i:583:VAL:HG11	1.86	0.58
1:4:825:LEU:HD21	1:9:822:LEU:HB3	1.84	0.58
1:AG:825:LEU:HD21	1:AL:822:LEU:HB3	1.84	0.58
1:E:529:ILE:HD12	1:E:583:VAL:HG11	1.86	0.58
1:6:722:ALA:HB1	1:7:732:ALA:HB2	1.84	0.58
1:AE:523:PHE:CZ	1:AE:545:TRP:CD1	2.92	0.58
1:I:732:ALA:HB2	1:M:722:ALA:HB1	1.84	0.58
1:Q:529:ILE:HD12	1:Q:583:VAL:HG11	1.86	0.58
1:c:529:ILE:HD12	1:c:583:VAL:HG11	1.86	0.58
1:2:523:PHE:CZ	1:2:545:TRP:CD1	2.92	0.58
1:J:707:LEU:HD13	1:Q:717:GLU:HB2	1.85	0.58
1:a:825:LEU:HD21	1:f:822:LEU:HB3	1.84	0.58
1:e:66:VAL:HG22	1:e:84:ARG:HD3	1.85	0.58
1:i:722:ALA:HB1	1:j:732:ALA:HB2	1.83	0.58
1:o:529:ILE:HD12	1:o:583:VAL:HG11	1.86	0.58
1:q:66:VAL:HG22	1:q:84:ARG:HD3	1.85	0.58
1:8:523:PHE:CZ	1:8:545:TRP:CD1	2.92	0.58
1:D:707:LEU:HD13	1:K:717:GLU:HB2	1.85	0.58
1:U:639:ASP:OD2	1:Y:573:LYS:NZ	2.31	0.58
1:o:523:PHE:CZ	1:o:545:TRP:NE1	2.71	0.58
1:t:840:ASN:O	1:z:841:LEU:O	2.22	0.58
1:u:529:ILE:HD12	1:u:583:VAL:HG11	1.86	0.58
1:2:66:VAL:HG22	1:2:84:ARG:HD3	1.85	0.58
1:2:732:ALA:HB2	1:3:722:ALA:HB1	1.86	0.58
1:AF:95:ASP:OD1	1:AF:95:ASP:N	2.37	0.58
1:AO:529:ILE:HD12	1:AO:583:VAL:HG11	1.86	0.58
1:W:529:ILE:HD12	1:W:583:VAL:HG11	1.86	0.57
1:i:523:PHE:CZ	1:i:545:TRP:NE1	2.71	0.57
1:AL:95:ASP:OD1	1:AL:95:ASP:N	2.37	0.57
1:AO:523:PHE:CZ	1:AO:545:TRP:NE1	2.71	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:732:ALA:HB2	1:r:722:ALA:HB1	1.86	0.57
1:0:529:ILE:HD12	1:0:583:VAL:HG11	1.86	0.57
1:AI:529:ILE:HD12	1:AI:583:VAL:HG11	1.86	0.57
1:AK:66:VAL:HG22	1:AK:84:ARG:HD3	1.85	0.57
1:B:95:ASP:N	1:B:95:ASP:OD1	2.37	0.57
1:H:523:PHE:CZ	1:H:545:TRP:CD1	2.93	0.57
1:N:523:PHE:CZ	1:N:545:TRP:CD1	2.93	0.57
1:f:95:ASP:OD1	1:f:95:ASP:N	2.37	0.57
1:l:523:PHE:CZ	1:l:545:TRP:CD1	2.93	0.57
1:n:840:ASN:O	1:t:841:LEU:O	2.22	0.57
1:r:523:PHE:CZ	1:r:545:TRP:CD1	2.93	0.57
1:z:840:ASN:O	1:5:841:LEU:O	2.22	0.57
1:6:529:ILE:HD12	1:6:583:VAL:HG11	1.86	0.57
1:8:66:VAL:HG22	1:8:84:ARG:HD3	1.85	0.57
1:AE:732:ALA:HB2	1:AF:722:ALA:HB1	1.86	0.57
1:K:523:PHE:HB2	1:K:543:TYR:HD2	1.69	0.57
1:L:802:LEU:HD21	1:L:810:LEU:CD1	2.35	0.57
1:Q:523:PHE:CZ	1:Q:545:TRP:NE1	2.71	0.57
1:Z:95:ASP:N	1:Z:95:ASP:OD1	2.37	0.57
1:Z:523:PHE:CZ	1:Z:545:TRP:CD1	2.93	0.57
1:AC:529:ILE:HD12	1:AC:583:VAL:HG11	1.86	0.57
1:B:523:PHE:CZ	1:B:545:TRP:CD1	2.93	0.57
1:B:523:PHE:CZ	1:B:545:TRP:CD2	2.93	0.57
1:H:95:ASP:OD1	1:H:95:ASP:N	2.37	0.57
1:T:95:ASP:OD1	1:T:95:ASP:N	2.37	0.57
1:c:523:PHE:CZ	1:c:545:TRP:NE1	2.71	0.57
1:e:732:ALA:HB2	1:f:722:ALA:HB1	1.86	0.57
1:u:523:PHE:HB2	1:u:543:TYR:HD2	1.69	0.57
1:9:523:PHE:CZ	1:9:545:TRP:CD2	2.93	0.57
1:AL:523:PHE:CZ	1:AL:545:TRP:CD2	2.93	0.57
1:A:66:VAL:HG22	1:A:84:ARG:HD3	1.85	0.57
1:D:840:ASN:O	1:J:841:LEU:O	2.22	0.57
1:D:841:LEU:O	1:AN:840:ASN:O	2.22	0.57
1:F:802:LEU:HD21	1:F:810:LEU:CD1	2.35	0.57
1:H:523:PHE:CZ	1:H:545:TRP:CD2	2.93	0.57
1:M:66:VAL:HG22	1:M:84:ARG:HD3	1.85	0.57
1:N:95:ASP:OD1	1:N:95:ASP:N	2.37	0.57
1:W:523:PHE:HB2	1:W:543:TYR:HD2	1.69	0.57
1:Y:827:LEU:CD1	1:Z:795:PHE:HD1	2.18	0.57
1:f:523:PHE:CZ	1:f:545:TRP:CD1	2.93	0.57
1:h:840:ASN:O	1:n:841:LEU:O	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:95:ASP:OD1	1:l:95:ASP:N	2.37	0.57
1:1:802:LEU:HD21	1:1:810:LEU:CD1	2.35	0.57
1:7:802:LEU:HD21	1:7:810:LEU:CD1	2.35	0.57
1:8:827:LEU:CD1	1:9:795:PHE:HD1	2.18	0.57
1:AF:523:PHE:CZ	1:AF:545:TRP:CD2	2.93	0.57
1:AL:523:PHE:CZ	1:AL:545:TRP:CD1	2.93	0.57
1:R:802:LEU:HD21	1:R:810:LEU:CD1	2.35	0.57
1:T:523:PHE:CZ	1:T:545:TRP:CD1	2.93	0.57
1:x:523:PHE:CZ	1:x:545:TRP:CD1	2.93	0.57
1:G:827:LEU:CD1	1:H:795:PHE:HD1	2.18	0.57
1:M:827:LEU:CD1	1:N:795:PHE:HD1	2.18	0.57
1:N:523:PHE:CZ	1:N:545:TRP:CD2	2.93	0.57
1:W:523:PHE:CZ	1:W:545:TRP:NE1	2.71	0.57
1:b:840:ASN:O	1:h:841:LEU:O	2.22	0.57
1:e:523:PHE:CE2	1:e:545:TRP:CG	2.93	0.57
1:v:802:LEU:HD21	1:v:810:LEU:CD1	2.35	0.57
1:y:802:LEU:HD21	1:y:810:LEU:CD1	2.35	0.57
1:3:523:PHE:CZ	1:3:545:TRP:CD2	2.93	0.57
1:9:523:PHE:CZ	1:9:545:TRP:CD1	2.93	0.57
1:AF:523:PHE:CZ	1:AF:545:TRP:CD1	2.93	0.57
1:AL:523:PHE:HB2	1:AL:543:TYR:HD2	1.70	0.57
1:AO:474:ARG:HB2	1:AO:492:GLU:HB2	1.87	0.57
1:J:840:ASN:O	1:P:841:LEU:O	2.22	0.57
1:P:840:ASN:O	1:V:841:LEU:O	2.22	0.57
1:X:802:LEU:HD21	1:X:810:LEU:CD1	2.35	0.57
1:d:802:LEU:HD21	1:d:810:LEU:CD1	2.35	0.57
1:j:802:LEU:HD21	1:j:810:LEU:CD1	2.35	0.57
1:k:523:PHE:CE2	1:k:545:TRP:CG	2.93	0.57
1:k:732:ALA:HB2	1:l:722:ALA:HB1	1.86	0.57
1:o:523:PHE:HB2	1:o:543:TYR:HD2	1.69	0.57
1:p:802:LEU:HD21	1:p:810:LEU:CD1	2.35	0.57
1:s:802:LEU:HD21	1:s:810:LEU:CD1	2.35	0.57
1:0:523:PHE:HB2	1:0:543:TYR:HD2	1.69	0.57
1:3:523:PHE:CZ	1:3:545:TRP:CD1	2.93	0.57
1:AI:474:ARG:HB2	1:AI:492:GLU:HB2	1.87	0.57
1:AK:523:PHE:HB2	1:AK:543:TYR:HD2	1.70	0.57
1:AK:827:LEU:CD1	1:AL:795:PHE:HD1	2.18	0.57
1:AP:802:LEU:HD21	1:AP:810:LEU:CD1	2.35	0.57
1:B:523:PHE:HB2	1:B:543:TYR:HD2	1.70	0.57
1:C:121:LEU:HB2	1:C:145:PHE:HB3	1.87	0.57
1:C:802:LEU:HD21	1:C:810:LEU:CD1	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:802:LEU:HD21	1:I:810:LEU:CD1	2.35	0.57
1:Y:523:PHE:CE2	1:Y:545:TRP:CG	2.93	0.57
1:w:732:ALA:HB2	1:x:722:ALA:HB1	1.86	0.57
1:x:523:PHE:CZ	1:x:545:TRP:CD2	2.93	0.57
1:5:840:ASN:O	1:AB:841:LEU:O	2.22	0.57
1:AD:802:LEU:HD21	1:AD:810:LEU:CD1	2.35	0.57
1:AF:523:PHE:HB2	1:AF:543:TYR:HD2	1.70	0.57
1:AG:121:LEU:HB2	1:AG:145:PHE:HB3	1.87	0.57
1:AN:523:PHE:CZ	1:AN:545:TRP:NE1	2.73	0.57
1:AO:523:PHE:HB2	1:AO:543:TYR:HD2	1.69	0.57
1:A:523:PHE:HB2	1:A:543:TYR:HD2	1.70	0.56
1:B:523:PHE:CZ	1:B:545:TRP:NE1	2.73	0.56
1:D:523:PHE:CZ	1:D:545:TRP:NE1	2.73	0.56
1:I:121:LEU:HB2	1:I:145:PHE:HB3	1.87	0.56
1:S:732:ALA:HB2	1:T:722:ALA:HB1	1.86	0.56
1:k:827:LEU:CD1	1:l:795:PHE:HD1	2.18	0.56
1:w:60:VAL:HA	1:w:89:GLU:O	2.05	0.56
1:3:523:PHE:CZ	1:3:545:TRP:NE1	2.73	0.56
1:4:802:LEU:HD21	1:4:810:LEU:CD1	2.35	0.56
1:9:523:PHE:CZ	1:9:545:TRP:NE1	2.73	0.56
1:AE:66:VAL:HG22	1:AE:84:ARG:HD3	1.85	0.56
1:AF:523:PHE:CZ	1:AF:545:TRP:NE1	2.73	0.56
1:AM:121:LEU:HB2	1:AM:145:PHE:HB3	1.87	0.56
1:E:474:ARG:HB2	1:E:492:GLU:HB2	1.87	0.56
1:T:523:PHE:CZ	1:T:545:TRP:CD2	2.93	0.56
1:n:523:PHE:CZ	1:n:545:TRP:NE1	2.73	0.56
1:q:523:PHE:CE2	1:q:545:TRP:CG	2.93	0.56
1:r:95:ASP:N	1:r:95:ASP:OD1	2.37	0.56
1:t:523:PHE:CZ	1:t:545:TRP:NE1	2.73	0.56
1:5:523:PHE:CZ	1:5:545:TRP:NE1	2.73	0.56
1:A:732:ALA:HB2	1:B:722:ALA:HB1	1.86	0.56
1:H:523:PHE:CZ	1:H:545:TRP:NE1	2.73	0.56
1:J:523:PHE:CZ	1:J:545:TRP:NE1	2.73	0.56
1:O:121:LEU:HB2	1:O:145:PHE:HB3	1.87	0.56
1:O:802:LEU:HD21	1:O:810:LEU:CD1	2.35	0.56
1:S:523:PHE:CE2	1:S:545:TRP:CG	2.93	0.56
1:V:95:ASP:OD1	1:V:95:ASP:N	2.38	0.56
1:V:840:ASN:O	1:b:841:LEU:O	2.22	0.56
1:e:827:LEU:CD1	1:f:795:PHE:HD1	2.18	0.56
1:i:523:PHE:HB2	1:i:543:TYR:HD2	1.69	0.56
1:k:60:VAL:HA	1:k:89:GLU:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:802:LEU:HD21	1:m:810:LEU:CD1	2.35	0.56
1:q:827:LEU:CD1	1:r:795:PHE:HD1	2.18	0.56
1:x:523:PHE:CZ	1:x:545:TRP:NE1	2.73	0.56
1:z:523:PHE:CZ	1:z:545:TRP:NE1	2.73	0.56
1:AB:840:ASN:O	1:AH:841:LEU:O	2.22	0.56
1:AC:474:ARG:HB2	1:AC:492:GLU:HB2	1.87	0.56
1:AE:523:PHE:CE2	1:AE:545:TRP:CG	2.93	0.56
1:AE:523:PHE:HB2	1:AE:543:TYR:HD2	1.70	0.56
1:AH:840:ASN:O	1:AN:841:LEU:O	2.22	0.56
1:AJ:802:LEU:HD21	1:AJ:810:LEU:CD1	2.35	0.56
1:AM:802:LEU:HD21	1:AM:810:LEU:CD1	2.35	0.56
1:S:60:VAL:HA	1:S:89:GLU:O	2.05	0.56
1:U:121:LEU:HB2	1:U:145:PHE:HB3	1.87	0.56
1:b:95:ASP:N	1:b:95:ASP:OD1	2.38	0.56
1:h:523:PHE:CZ	1:h:545:TRP:NE1	2.73	0.56
1:w:523:PHE:CE2	1:w:545:TRP:CG	2.93	0.56
1:9:523:PHE:HB2	1:9:543:TYR:HD2	1.70	0.56
1:AA:802:LEU:HD21	1:AA:810:LEU:CD1	2.35	0.56
1:AB:523:PHE:CZ	1:AB:545:TRP:NE1	2.73	0.56
1:AK:523:PHE:CE2	1:AK:545:TRP:CG	2.93	0.56
1:A:827:LEU:CD1	1:B:795:PHE:HD1	2.18	0.56
1:M:60:VAL:HA	1:M:89:GLU:O	2.05	0.56
1:k:523:PHE:HB2	1:k:543:TYR:HD2	1.70	0.56
1:r:523:PHE:CZ	1:r:545:TRP:CD2	2.93	0.56
1:t:121:LEU:HB2	1:t:145:PHE:HB3	1.88	0.56
1:w:827:LEU:CD1	1:x:795:PHE:HD1	2.18	0.56
1:8:60:VAL:HA	1:8:89:GLU:O	2.05	0.56
1:8:523:PHE:CE2	1:8:545:TRP:CG	2.93	0.56
1:AL:523:PHE:CZ	1:AL:545:TRP:NE1	2.73	0.56
1:G:732:ALA:HB2	1:H:722:ALA:HB1	1.86	0.56
1:H:523:PHE:HB2	1:H:543:TYR:HD2	1.70	0.56
1:K:474:ARG:HB2	1:K:492:GLU:HB2	1.87	0.56
1:M:523:PHE:CE2	1:M:545:TRP:CG	2.93	0.56
1:S:827:LEU:CD1	1:T:795:PHE:HD1	2.18	0.56
1:Z:523:PHE:CZ	1:Z:545:TRP:CD2	2.93	0.56
1:h:95:ASP:N	1:h:95:ASP:OD1	2.38	0.56
1:n:95:ASP:OD1	1:n:95:ASP:N	2.38	0.56
1:t:95:ASP:OD1	1:t:95:ASP:N	2.38	0.56
1:4:121:LEU:HB2	1:4:145:PHE:HB3	1.87	0.56
1:8:732:ALA:HB2	1:9:722:ALA:HB1	1.86	0.56
1:AI:523:PHE:HB2	1:AI:543:TYR:HD2	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:16:ILE:HG22	1:E:29:GLU:HB2	1.88	0.56
1:G:60:VAL:HA	1:G:89:GLU:O	2.05	0.56
1:Q:523:PHE:HB2	1:Q:543:TYR:HD2	1.69	0.56
1:b:523:PHE:CZ	1:b:545:TRP:NE1	2.73	0.56
1:f:523:PHE:CZ	1:f:545:TRP:NE1	2.73	0.56
1:l:523:PHE:CZ	1:l:545:TRP:NE1	2.73	0.56
1:n:121:LEU:HB2	1:n:145:PHE:HB3	1.88	0.56
1:y:595:SER:HG	1:2:580:ARG:HH22	1.54	0.56
1:z:95:ASP:N	1:z:95:ASP:OD1	2.38	0.56
1:2:523:PHE:CE2	1:2:545:TRP:CG	2.93	0.56
1:5:121:LEU:HB2	1:5:145:PHE:HB3	1.88	0.56
1:6:523:PHE:HB2	1:6:543:TYR:HD2	1.69	0.56
1:AA:121:LEU:HB2	1:AA:145:PHE:HB3	1.87	0.56
1:AI:579:VAL:O	1:AI:583:VAL:HB	2.06	0.56
1:A:523:PHE:CE2	1:A:545:TRP:CG	2.93	0.56
1:U:802:LEU:HD21	1:U:810:LEU:CD1	2.35	0.56
1:Y:60:VAL:HA	1:Y:89:GLU:O	2.06	0.56
1:Z:523:PHE:CZ	1:Z:545:TRP:NE1	2.73	0.56
1:l:523:PHE:CZ	1:l:545:TRP:CD2	2.93	0.56
1:w:523:PHE:HB2	1:w:543:TYR:HD2	1.70	0.56
1:z:121:LEU:HB2	1:z:145:PHE:HB3	1.88	0.56
1:2:827:LEU:CD1	1:3:795:PHE:HD1	2.18	0.56
1:5:95:ASP:N	1:5:95:ASP:OD1	2.38	0.56
1:AG:802:LEU:HD21	1:AG:810:LEU:CD1	2.35	0.56
1:G:523:PHE:HB2	1:G:543:TYR:HD2	1.70	0.56
1:O:639:ASP:OD2	1:S:573:LYS:NZ	2.31	0.56
1:T:523:PHE:CZ	1:T:545:TRP:NE1	2.73	0.56
1:c:474:ARG:HB2	1:c:492:GLU:HB2	1.87	0.56
1:e:827:LEU:CD2	1:f:795:PHE:CE1	2.89	0.56
1:f:523:PHE:CZ	1:f:545:TRP:CD2	2.93	0.56
1:h:121:LEU:HB2	1:h:145:PHE:HB3	1.88	0.56
1:q:60:VAL:HA	1:q:89:GLU:O	2.05	0.56
1:x:95:ASP:N	1:x:95:ASP:OD1	2.37	0.56
1:AE:60:VAL:HA	1:AE:89:GLU:O	2.06	0.56
1:AK:732:ALA:HB2	1:AL:722:ALA:HB1	1.86	0.56
1:K:16:ILE:HG22	1:K:29:GLU:HB2	1.88	0.56
1:N:523:PHE:CZ	1:N:545:TRP:NE1	2.73	0.56
1:W:579:VAL:O	1:W:583:VAL:HB	2.06	0.56
1:a:802:LEU:HD21	1:a:810:LEU:CD1	2.35	0.56
1:c:523:PHE:HB2	1:c:543:TYR:HD2	1.69	0.56
1:c:579:VAL:O	1:c:583:VAL:HB	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:802:LEU:HD21	1:g:810:LEU:CD1	2.35	0.56
1:i:163:ILE:HD11	1:i:206:PRO:HG2	1.88	0.56
1:i:579:VAL:O	1:i:583:VAL:HB	2.06	0.56
1:o:163:ILE:HD11	1:o:206:PRO:HG2	1.88	0.56
1:2:60:VAL:HA	1:2:89:GLU:O	2.05	0.56
1:2:827:LEU:CD2	1:3:795:PHE:CE1	2.89	0.56
1:8:523:PHE:HB2	1:8:543:TYR:HD2	1.70	0.56
1:AC:523:PHE:HB2	1:AC:543:TYR:HD2	1.69	0.56
1:AF:107:LYS:HE2	1:AF:110:THR:HG21	1.88	0.56
1:AL:107:LYS:HE2	1:AL:110:THR:HG21	1.88	0.56
1:B:107:LYS:HE2	1:B:110:THR:HG21	1.88	0.55
1:E:523:PHE:HB2	1:E:543:TYR:HD2	1.69	0.55
1:a:121:LEU:HB2	1:a:145:PHE:HB3	1.87	0.55
1:b:523:PHE:CZ	1:b:545:TRP:CD2	2.95	0.55
1:h:523:PHE:CZ	1:h:545:TRP:CD2	2.95	0.55
1:i:474:ARG:HB2	1:i:492:GLU:HB2	1.87	0.55
1:u:579:VAL:O	1:u:583:VAL:HB	2.06	0.55
1:v:129:PHE:CE2	1:v:156:GLU:HB2	2.40	0.55
1:3:523:PHE:HB2	1:3:543:TYR:HD2	1.70	0.55
1:AE:827:LEU:CD1	1:AF:795:PHE:HD1	2.18	0.55
1:AO:579:VAL:O	1:AO:583:VAL:HB	2.06	0.55
1:A:794:LYS:NZ	1:A:851:LEU:CD2	2.69	0.55
1:G:794:LYS:NZ	1:G:851:LEU:CD2	2.69	0.55
1:P:523:PHE:CZ	1:P:545:TRP:NE1	2.73	0.55
1:W:474:ARG:HB2	1:W:492:GLU:HB2	1.87	0.55
1:Y:523:PHE:HB2	1:Y:543:TYR:HD2	1.70	0.55
1:b:121:LEU:HB2	1:b:145:PHE:HB3	1.88	0.55
1:e:60:VAL:HA	1:e:89:GLU:O	2.05	0.55
1:f:107:LYS:HE2	1:f:110:THR:HG21	1.88	0.55
1:q:827:LEU:CD2	1:r:795:PHE:CE1	2.89	0.55
1:u:163:ILE:HD11	1:u:206:PRO:HG2	1.88	0.55
1:0:16:ILE:HG22	1:0:29:GLU:HB2	1.88	0.55
1:6:474:ARG:HB2	1:6:492:GLU:HB2	1.87	0.55
1:6:579:VAL:O	1:6:583:VAL:HB	2.06	0.55
1:AC:579:VAL:O	1:AC:583:VAL:HB	2.06	0.55
1:AO:16:ILE:HG22	1:AO:29:GLU:HB2	1.88	0.55
1:A:573:LYS:NZ	1:AM:639:ASP:OD2	2.31	0.55
1:G:523:PHE:CE2	1:G:545:TRP:CG	2.93	0.55
1:c:163:ILE:HD11	1:c:206:PRO:HG2	1.88	0.55
1:l:107:LYS:HE2	1:l:110:THR:HG21	1.88	0.55
1:n:523:PHE:CZ	1:n:545:TRP:CD2	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:523:PHE:CZ	1:r:545:TRP:NE1	2.73	0.55
1:t:62:ALA:HB3	1:t:104:LEU:HB3	1.89	0.55
1:y:121:LEU:HB2	1:y:145:PHE:HB3	1.87	0.55
1:AH:523:PHE:CZ	1:AH:545:TRP:NE1	2.73	0.55
1:AN:523:PHE:CZ	1:AN:545:TRP:CD2	2.95	0.55
1:D:523:PHE:CZ	1:D:545:TRP:CD2	2.95	0.55
1:M:794:LYS:NZ	1:M:851:LEU:CD2	2.69	0.55
1:N:523:PHE:HB2	1:N:543:TYR:HD2	1.70	0.55
1:S:523:PHE:HB2	1:S:543:TYR:HD2	1.70	0.55
1:V:523:PHE:CZ	1:V:545:TRP:CD2	2.95	0.55
1:Y:732:ALA:HB2	1:Z:722:ALA:HB1	1.86	0.55
1:g:121:LEU:HB2	1:g:145:PHE:HB3	1.87	0.55
1:j:129:PHE:CE2	1:j:156:GLU:HB2	2.40	0.55
1:AH:523:PHE:CZ	1:AH:545:TRP:CD2	2.95	0.55
1:A:60:VAL:HA	1:A:89:GLU:O	2.05	0.55
1:E:579:VAL:O	1:E:583:VAL:HB	2.06	0.55
1:J:523:PHE:CZ	1:J:545:TRP:CD2	2.95	0.55
1:M:827:LEU:CD2	1:N:795:PHE:CE1	2.89	0.55
1:P:523:PHE:CZ	1:P:545:TRP:CD2	2.95	0.55
1:V:523:PHE:CZ	1:V:545:TRP:NE1	2.73	0.55
1:Y:128:ASP:HB3	1:Y:136:LYS:HZ1	1.71	0.55
1:s:121:LEU:HB2	1:s:145:PHE:HB3	1.87	0.55
1:u:16:ILE:HG22	1:u:29:GLU:HB2	1.88	0.55
1:0:163:ILE:HD11	1:0:206:PRO:HG2	1.88	0.55
1:9:107:LYS:HE2	1:9:110:THR:HG21	1.88	0.55
1:AB:121:LEU:HB2	1:AB:145:PHE:HB3	1.88	0.55
1:AE:794:LYS:NZ	1:AE:851:LEU:CD2	2.69	0.55
1:AE:827:LEU:CD2	1:AF:795:PHE:CE1	2.89	0.55
1:Q:579:VAL:O	1:Q:583:VAL:HB	2.06	0.55
1:S:794:LYS:NZ	1:S:851:LEU:CD2	2.69	0.55
1:W:163:ILE:HD11	1:W:206:PRO:HG2	1.88	0.55
1:Z:107:LYS:HE2	1:Z:110:THR:HG21	1.88	0.55
1:c:16:ILE:HG22	1:c:29:GLU:HB2	1.88	0.55
1:o:579:VAL:O	1:o:583:VAL:HB	2.06	0.55
1:u:17:HIS:NE2	1:u:99:LEU:O	2.35	0.55
1:0:579:VAL:O	1:0:583:VAL:HB	2.06	0.55
1:1:121:LEU:HB2	1:1:145:PHE:HB3	1.89	0.55
1:AH:121:LEU:HB2	1:AH:145:PHE:HB3	1.88	0.55
1:H:53:VAL:HG12	1:H:109:ILE:HG23	1.89	0.55
1:H:107:LYS:HE2	1:H:110:THR:HG21	1.88	0.55
1:K:579:VAL:O	1:K:583:VAL:HB	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:732:ALA:HB2	1:N:722:ALA:HB1	1.86	0.55
1:Q:474:ARG:HB2	1:Q:492:GLU:HB2	1.87	0.55
1:Z:523:PHE:CE1	1:Z:545:TRP:NE1	2.75	0.55
1:l:523:PHE:CE1	1:l:545:TRP:NE1	2.75	0.55
1:o:474:ARG:HB2	1:o:492:GLU:HB2	1.87	0.55
1:p:121:LEU:HB2	1:p:145:PHE:HB3	1.89	0.55
1:q:523:PHE:HB2	1:q:543:TYR:HD2	1.70	0.55
1:r:107:LYS:HE2	1:r:110:THR:HG21	1.88	0.55
1:t:523:PHE:CZ	1:t:545:TRP:CD2	2.95	0.55
1:u:474:ARG:HB2	1:u:492:GLU:HB2	1.87	0.55
1:y:639:ASP:OD2	1:2:573:LYS:NZ	2.31	0.55
1:6:16:ILE:HG22	1:6:29:GLU:HB2	1.88	0.55
1:D:523:PHE:CZ	1:D:545:TRP:CD1	2.95	0.55
1:E:732:ALA:HB2	1:AN:722:ALA:HB1	1.89	0.55
1:Q:16:ILE:HG22	1:Q:29:GLU:HB2	1.88	0.55
1:T:523:PHE:HB2	1:T:543:TYR:HD2	1.70	0.55
1:Y:794:LYS:NZ	1:Y:851:LEU:CD2	2.69	0.55
1:Z:523:PHE:HB2	1:Z:543:TYR:HD2	1.70	0.55
1:b:62:ALA:HB3	1:b:104:LEU:HB3	1.89	0.55
1:n:62:ALA:HB3	1:n:104:LEU:HB3	1.89	0.55
1:n:523:PHE:CZ	1:n:545:TRP:CD1	2.95	0.55
1:p:12:PRO:HB3	1:p:32:PRO:HB3	1.89	0.55
1:z:62:ALA:HB3	1:z:104:LEU:HB3	1.89	0.55
1:AB:523:PHE:CZ	1:AB:545:TRP:CD2	2.95	0.55
1:AB:722:ALA:HB1	1:AI:732:ALA:HB2	1.89	0.55
1:J:121:LEU:HB2	1:J:145:PHE:HB3	1.88	0.55
1:J:523:PHE:CZ	1:J:545:TRP:CD1	2.95	0.55
1:N:523:PHE:CE1	1:N:545:TRP:NE1	2.75	0.55
1:T:53:VAL:HG12	1:T:109:ILE:HG23	1.89	0.55
1:V:62:ALA:HB3	1:V:104:LEU:HB3	1.89	0.55
1:h:523:PHE:CZ	1:h:545:TRP:CD1	2.95	0.55
1:j:12:PRO:HB3	1:j:32:PRO:HB3	1.89	0.55
1:m:121:LEU:HB2	1:m:145:PHE:HB3	1.87	0.55
1:q:128:ASP:HB3	1:q:136:LYS:HZ1	1.72	0.55
1:x:523:PHE:HB2	1:x:543:TYR:HD2	1.70	0.55
1:2:523:PHE:HB2	1:2:543:TYR:HD2	1.70	0.55
1:6:163:ILE:HD11	1:6:206:PRO:HG2	1.88	0.55
1:7:121:LEU:HB2	1:7:145:PHE:HB3	1.89	0.55
1:K:60:VAL:HA	1:K:89:GLU:O	2.07	0.55
1:Q:163:ILE:HD11	1:Q:206:PRO:HG2	1.88	0.55
1:V:121:LEU:HB2	1:V:145:PHE:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:523:PHE:CZ	1:V:545:TRP:CD1	2.95	0.55
1:e:523:PHE:HB2	1:e:543:TYR:HD2	1.70	0.55
1:f:523:PHE:HB2	1:f:543:TYR:HD2	1.70	0.55
1:h:129:PHE:CZ	1:h:156:GLU:HB2	2.43	0.55
1:i:16:ILE:HG22	1:i:29:GLU:HB2	1.88	0.55
1:o:16:ILE:HG22	1:o:29:GLU:HB2	1.88	0.55
1:v:121:LEU:HB2	1:v:145:PHE:HB3	1.89	0.55
1:3:95:ASP:OD1	1:3:95:ASP:N	2.37	0.55
1:AC:16:ILE:HG22	1:AC:29:GLU:HB2	1.88	0.55
1:M:523:PHE:HB2	1:M:543:TYR:HD2	1.70	0.54
1:N:53:VAL:HG12	1:N:109:ILE:HG23	1.89	0.54
1:P:523:PHE:CZ	1:P:545:TRP:CD1	2.95	0.54
1:h:639:ASP:OD2	1:j:573:LYS:NZ	2.40	0.54
1:o:17:HIS:NE2	1:o:99:LEU:O	2.35	0.54
1:r:523:PHE:HB2	1:r:543:TYR:HD2	1.70	0.54
1:t:523:PHE:CZ	1:t:545:TRP:CD1	2.95	0.54
1:z:523:PHE:CZ	1:z:545:TRP:CD1	2.95	0.54
1:z:523:PHE:CZ	1:z:545:TRP:CD2	2.95	0.54
1:0:474:ARG:HB2	1:0:492:GLU:HB2	1.87	0.54
1:3:107:LYS:HE2	1:3:110:THR:HG21	1.88	0.54
1:7:129:PHE:CE2	1:7:156:GLU:HB2	2.40	0.54
1:AI:16:ILE:HG22	1:AI:29:GLU:HB2	1.88	0.54
1:AK:60:VAL:HA	1:AK:89:GLU:O	2.05	0.54
1:AO:60:VAL:HA	1:AO:89:GLU:O	2.08	0.54
1:B:53:VAL:HG12	1:B:109:ILE:HG23	1.89	0.54
1:H:523:PHE:CE1	1:H:545:TRP:NE1	2.75	0.54
1:P:121:LEU:HB2	1:P:145:PHE:HB3	1.88	0.54
1:P:129:PHE:CZ	1:P:156:GLU:HB2	2.43	0.54
1:Q:121:LEU:HB2	1:Q:145:PHE:HB3	1.89	0.54
1:W:16:ILE:HG22	1:W:29:GLU:HB2	1.88	0.54
1:b:523:PHE:CZ	1:b:545:TRP:CD1	2.95	0.54
1:d:12:PRO:HB3	1:d:32:PRO:HB3	1.89	0.54
1:e:128:ASP:HB3	1:e:136:LYS:HZ1	1.72	0.54
1:f:523:PHE:CE1	1:f:545:TRP:NE1	2.75	0.54
1:p:129:PHE:CE2	1:p:156:GLU:HB2	2.40	0.54
1:v:12:PRO:HB3	1:v:32:PRO:HB3	1.89	0.54
1:5:129:PHE:CZ	1:5:156:GLU:HB2	2.43	0.54
1:AL:53:VAL:HG12	1:AL:109:ILE:HG23	1.89	0.54
1:AN:95:ASP:N	1:AN:95:ASP:OD1	2.38	0.54
1:AN:129:PHE:CZ	1:AN:156:GLU:HB2	2.43	0.54
1:AN:523:PHE:CZ	1:AN:545:TRP:CD1	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:523:PHE:CE1	1:A:545:TRP:CE2	2.96	0.54
1:D:121:LEU:HB2	1:D:145:PHE:HB3	1.88	0.54
1:J:838:PRO:O	1:P:839:VAL:O	2.26	0.54
1:P:838:PRO:O	1:V:839:VAL:O	2.26	0.54
1:V:639:ASP:OD2	1:X:573:LYS:NZ	2.40	0.54
1:V:838:PRO:O	1:b:839:VAL:O	2.26	0.54
1:e:523:PHE:CE1	1:e:545:TRP:CE2	2.96	0.54
1:e:794:LYS:NZ	1:e:851:LEU:CD2	2.69	0.54
1:j:121:LEU:HB2	1:j:145:PHE:HB3	1.89	0.54
1:r:523:PHE:CE1	1:r:545:TRP:NE1	2.75	0.54
1:x:523:PHE:CE1	1:x:545:TRP:NE1	2.75	0.54
1:z:838:PRO:O	1:5:839:VAL:O	2.26	0.54
1:5:523:PHE:CZ	1:5:545:TRP:CD1	2.95	0.54
1:AB:62:ALA:HB3	1:AB:104:LEU:HB3	1.89	0.54
1:AC:163:ILE:HD11	1:AC:206:PRO:HG2	1.88	0.54
1:AD:121:LEU:HB2	1:AD:145:PHE:HB3	1.89	0.54
1:AK:794:LYS:NZ	1:AK:851:LEU:CD2	2.69	0.54
1:J:722:ALA:HB1	1:Q:732:ALA:HB2	1.89	0.54
1:P:95:ASP:N	1:P:95:ASP:OD1	2.38	0.54
1:S:531:THR:OG1	1:S:586:VAL:O	2.26	0.54
1:T:107:LYS:HE2	1:T:110:THR:HG21	1.88	0.54
1:T:523:PHE:CE1	1:T:545:TRP:NE1	2.75	0.54
1:e:16:ILE:HG22	1:e:29:GLU:HB2	1.90	0.54
1:k:523:PHE:CE1	1:k:545:TRP:CE2	2.96	0.54
1:l:523:PHE:HB2	1:l:543:TYR:HD2	1.70	0.54
1:t:838:PRO:O	1:z:839:VAL:O	2.26	0.54
1:3:523:PHE:CE1	1:3:545:TRP:NE1	2.75	0.54
1:5:523:PHE:CZ	1:5:545:TRP:CD2	2.95	0.54
1:7:411:ASP:OD1	1:7:411:ASP:N	2.41	0.54
1:AB:129:PHE:CZ	1:AB:156:GLU:HB2	2.43	0.54
1:AH:523:PHE:CZ	1:AH:545:TRP:CD1	2.95	0.54
1:D:129:PHE:CZ	1:D:156:GLU:HB2	2.43	0.54
1:E:523:PHE:CE1	1:E:545:TRP:NE1	2.76	0.54
1:I:411:ASP:OD1	1:I:411:ASP:N	2.41	0.54
1:K:121:LEU:HB2	1:K:145:PHE:HB3	1.89	0.54
1:K:163:ILE:HD11	1:K:206:PRO:HG2	1.88	0.54
1:M:88:MET:HB2	1:M:155:LYS:HG3	1.90	0.54
1:M:531:THR:OG1	1:M:586:VAL:O	2.26	0.54
1:W:121:LEU:HB2	1:W:145:PHE:HB3	1.89	0.54
1:X:129:PHE:CE2	1:X:156:GLU:HB2	2.40	0.54
1:Y:827:LEU:CD2	1:Z:795:PHE:CE1	2.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:838:PRO:O	1:h:839:VAL:O	2.26	0.54
1:c:60:VAL:HA	1:c:89:GLU:O	2.08	0.54
1:d:121:LEU:HB2	1:d:145:PHE:HB3	1.89	0.54
1:i:523:PHE:CE1	1:i:545:TRP:NE1	2.76	0.54
1:k:16:ILE:HG22	1:k:29:GLU:HB2	1.90	0.54
1:n:129:PHE:CZ	1:n:156:GLU:HB2	2.43	0.54
1:u:121:LEU:HB2	1:u:145:PHE:HB3	1.89	0.54
1:x:107:LYS:HE2	1:x:110:THR:HG21	1.88	0.54
1:0:121:LEU:HB2	1:0:145:PHE:HB3	1.89	0.54
1:6:121:LEU:HB2	1:6:145:PHE:HB3	1.89	0.54
1:AB:523:PHE:CZ	1:AB:545:TRP:CD1	2.95	0.54
1:AH:95:ASP:N	1:AH:95:ASP:OD1	2.38	0.54
1:AH:639:ASP:OD2	1:AJ:573:LYS:NZ	2.40	0.54
1:AK:523:PHE:CE1	1:AK:545:TRP:CE2	2.96	0.54
1:AN:121:LEU:HB2	1:AN:145:PHE:HB3	1.88	0.54
1:A:88:MET:HB2	1:A:155:LYS:HG3	1.90	0.54
1:B:523:PHE:CE1	1:B:545:TRP:NE1	2.75	0.54
1:F:95:ASP:OD1	1:F:95:ASP:N	2.41	0.54
1:G:88:MET:HB2	1:G:155:LYS:HG3	1.90	0.54
1:G:523:PHE:CE1	1:G:545:TRP:CE2	2.96	0.54
1:G:531:THR:OG1	1:G:586:VAL:O	2.26	0.54
1:Q:523:PHE:CE1	1:Q:545:TRP:NE1	2.76	0.54
1:U:411:ASP:OD1	1:U:411:ASP:N	2.41	0.54
1:W:60:VAL:HA	1:W:89:GLU:O	2.07	0.54
1:W:523:PHE:CE1	1:W:545:TRP:NE1	2.76	0.54
1:Y:531:THR:OG1	1:Y:586:VAL:O	2.26	0.54
1:Z:53:VAL:HG12	1:Z:109:ILE:HG23	1.89	0.54
1:b:129:PHE:CZ	1:b:156:GLU:HB2	2.42	0.54
1:c:523:PHE:CE1	1:c:545:TRP:NE1	2.76	0.54
1:c:599:ILE:O	1:c:603:VAL:HG23	2.08	0.54
1:i:17:HIS:NE2	1:i:99:LEU:O	2.35	0.54
1:l:53:VAL:HG12	1:l:109:ILE:HG23	1.89	0.54
1:n:838:PRO:O	1:t:839:VAL:O	2.26	0.54
1:q:523:PHE:CE1	1:q:545:TRP:CE2	2.96	0.54
1:r:53:VAL:HG12	1:r:109:ILE:HG23	1.89	0.54
1:u:523:PHE:CE1	1:u:545:TRP:NE1	2.76	0.54
1:z:722:ALA:HB1	1:6:732:ALA:HB2	1.89	0.54
1:5:838:PRO:O	1:AB:839:VAL:O	2.26	0.54
1:AC:60:VAL:HA	1:AC:89:GLU:O	2.08	0.54
1:AC:232:ARG:HD3	1:AC:266:GLU:HB2	1.90	0.54
1:AD:129:PHE:CD2	1:AD:156:GLU:HB3	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:163:ILE:HD11	1:AI:206:PRO:HG2	1.88	0.54
1:AM:411:ASP:OD1	1:AM:411:ASP:N	2.41	0.54
1:A:531:THR:OG1	1:A:586:VAL:O	2.26	0.54
1:D:839:VAL:O	1:AN:838:PRO:O	2.26	0.54
1:E:163:ILE:HD11	1:E:206:PRO:HG2	1.88	0.54
1:E:599:ILE:O	1:E:603:VAL:HG23	2.08	0.54
1:E:812:VAL:HB	1:F:817:MET:SD	2.48	0.54
1:G:827:LEU:CD2	1:H:795:PHE:CE1	2.89	0.54
1:V:129:PHE:CZ	1:V:156:GLU:HB2	2.42	0.54
1:W:812:VAL:HB	1:X:817:MET:SD	2.48	0.54
1:Y:523:PHE:CE1	1:Y:545:TRP:CE2	2.96	0.54
1:c:812:VAL:HB	1:d:817:MET:SD	2.48	0.54
1:h:838:PRO:O	1:n:839:VAL:O	2.26	0.54
1:i:812:VAL:HB	1:j:817:MET:SD	2.48	0.54
1:z:129:PHE:CZ	1:z:156:GLU:HB2	2.43	0.54
1:0:599:ILE:O	1:0:603:VAL:HG23	2.08	0.54
1:0:812:VAL:HB	1:1:817:MET:SD	2.48	0.54
1:6:60:VAL:HA	1:6:89:GLU:O	2.08	0.54
1:AC:121:LEU:HB2	1:AC:145:PHE:HB3	1.89	0.54
1:AJ:121:LEU:HB2	1:AJ:145:PHE:HB3	1.89	0.54
1:AK:88:MET:HB2	1:AK:155:LYS:HG3	1.90	0.54
1:AL:523:PHE:CE1	1:AL:545:TRP:NE1	2.75	0.54
1:AN:639:ASP:OD2	1:AP:573:LYS:NZ	2.40	0.54
1:AO:599:ILE:O	1:AO:603:VAL:HG23	2.08	0.54
1:K:599:ILE:O	1:K:603:VAL:HG23	2.08	0.54
1:L:95:ASP:N	1:L:95:ASP:OD1	2.40	0.54
1:L:121:LEU:HB2	1:L:145:PHE:HB3	1.89	0.54
1:Q:60:VAL:HA	1:Q:89:GLU:O	2.08	0.54
1:S:88:MET:HB2	1:S:155:LYS:HG3	1.90	0.54
1:X:12:PRO:HB3	1:X:32:PRO:HB3	1.89	0.54
1:t:523:PHE:HB2	1:t:543:TYR:HD2	1.73	0.54
1:u:599:ILE:O	1:u:603:VAL:HG23	2.08	0.54
1:w:523:PHE:CE1	1:w:545:TRP:CE2	2.96	0.54
1:6:812:VAL:HB	1:7:817:MET:SD	2.48	0.54
1:9:523:PHE:CE1	1:9:545:TRP:NE1	2.75	0.54
1:AE:523:PHE:CE1	1:AE:545:TRP:CE2	2.96	0.54
1:AH:62:ALA:HB3	1:AH:104:LEU:HB3	1.89	0.54
1:AH:838:PRO:O	1:AN:839:VAL:O	2.26	0.54
1:AO:163:ILE:HD11	1:AO:206:PRO:HG2	1.88	0.54
1:D:95:ASP:N	1:D:95:ASP:OD1	2.38	0.54
1:D:838:PRO:O	1:J:839:VAL:O	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:639:ASP:OD2	1:L:573:LYS:NZ	2.40	0.54
1:K:523:PHE:CE1	1:K:545:TRP:NE1	2.76	0.54
1:K:812:VAL:HB	1:L:817:MET:SD	2.48	0.54
1:N:107:LYS:HE2	1:N:110:THR:HG21	1.88	0.54
1:P:531:THR:OG1	1:P:586:VAL:O	2.26	0.54
1:Q:232:ARG:HD3	1:Q:266:GLU:HB2	1.90	0.54
1:V:531:THR:OG1	1:V:586:VAL:O	2.26	0.54
1:c:17:HIS:NE2	1:c:99:LEU:O	2.35	0.54
1:d:129:PHE:CE2	1:d:156:GLU:HB2	2.40	0.54
1:o:599:ILE:O	1:o:603:VAL:HG23	2.08	0.54
1:1:12:PRO:HB3	1:1:32:PRO:HB3	1.89	0.54
1:1:531:THR:OG1	1:1:532:ALA:N	2.41	0.54
1:5:531:THR:OG1	1:5:586:VAL:O	2.26	0.54
1:AB:531:THR:OG1	1:AB:586:VAL:O	2.26	0.54
1:AD:531:THR:OG1	1:AD:532:ALA:N	2.41	0.54
1:AF:53:VAL:HG12	1:AF:109:ILE:HG23	1.89	0.54
1:AI:232:ARG:HD3	1:AI:266:GLU:HB2	1.90	0.54
1:AI:599:ILE:O	1:AI:603:VAL:HG23	2.08	0.54
1:AP:95:ASP:N	1:AP:95:ASP:OD1	2.41	0.54
1:D:62:ALA:HB3	1:D:104:LEU:HB3	1.89	0.54
1:F:121:LEU:HB2	1:F:145:PHE:HB3	1.89	0.54
1:M:523:PHE:CE1	1:M:545:TRP:CE2	2.96	0.54
1:N:639:ASP:OD2	1:O:573:LYS:NZ	2.38	0.54
1:Q:17:HIS:NE2	1:Q:99:LEU:O	2.35	0.54
1:W:17:HIS:NE2	1:W:99:LEU:O	2.35	0.54
1:W:232:ARG:HD3	1:W:266:GLU:HB2	1.90	0.54
1:Y:16:ILE:HG22	1:Y:29:GLU:HB2	1.90	0.54
1:Y:827:LEU:CD1	1:Z:795:PHE:CD1	2.91	0.54
1:d:411:ASP:OD1	1:d:411:ASP:N	2.41	0.54
1:e:531:THR:OG1	1:e:586:VAL:O	2.26	0.54
1:e:827:LEU:CD1	1:f:795:PHE:CD1	2.91	0.54
1:h:62:ALA:HB3	1:h:104:LEU:HB3	1.89	0.54
1:o:121:LEU:HB2	1:o:145:PHE:HB3	1.89	0.54
1:v:531:THR:OG1	1:v:532:ALA:N	2.41	0.54
1:0:120:ALA:HB2	1:0:205:LEU:HD21	1.90	0.54
1:1:129:PHE:CE2	1:1:156:GLU:HB2	2.40	0.54
1:6:120:ALA:HB2	1:6:205:LEU:HD21	1.90	0.54
1:6:232:ARG:HD3	1:6:266:GLU:HB2	1.90	0.54
1:6:523:PHE:CE1	1:6:545:TRP:NE1	2.76	0.54
1:7:531:THR:OG1	1:7:532:ALA:N	2.41	0.54
1:8:16:ILE:HG22	1:8:29:GLU:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:523:PHE:CE1	1:AC:545:TRP:NE1	2.76	0.54
1:AE:827:LEU:CD1	1:AF:795:PHE:CD1	2.91	0.54
1:AI:60:VAL:HA	1:AI:89:GLU:O	2.08	0.54
1:AI:120:ALA:HB2	1:AI:205:LEU:HD21	1.90	0.54
1:AK:531:THR:OG1	1:AK:586:VAL:O	2.26	0.54
1:B:531:THR:OG1	1:B:586:VAL:O	2.26	0.53
1:D:624:ASP:O	1:D:625:ARG:NH1	2.42	0.53
1:J:129:PHE:CZ	1:J:156:GLU:HB2	2.43	0.53
1:M:827:LEU:CD2	1:N:795:PHE:CD1	2.92	0.53
1:P:639:ASP:OD2	1:R:573:LYS:NZ	2.40	0.53
1:R:411:ASP:OD1	1:R:411:ASP:N	2.41	0.53
1:W:599:ILE:O	1:W:603:VAL:HG23	2.08	0.53
1:Y:827:LEU:CD2	1:Z:795:PHE:CD1	2.92	0.53
1:Z:531:THR:OG1	1:Z:586:VAL:O	2.26	0.53
1:f:53:VAL:HG12	1:f:109:ILE:HG23	1.89	0.53
1:k:794:LYS:NZ	1:k:851:LEU:CD2	2.69	0.53
1:n:523:PHE:HB2	1:n:543:TYR:HD2	1.73	0.53
1:q:16:ILE:HG22	1:q:29:GLU:HB2	1.90	0.53
1:s:531:THR:OG1	1:s:586:VAL:O	2.27	0.53
1:u:60:VAL:HA	1:u:89:GLU:O	2.08	0.53
1:u:120:ALA:HB2	1:u:205:LEU:HD21	1.90	0.53
1:z:531:THR:OG1	1:z:586:VAL:O	2.26	0.53
1:0:60:VAL:HA	1:0:89:GLU:O	2.08	0.53
1:9:95:ASP:OD1	1:9:95:ASP:N	2.37	0.53
1:AB:838:PRO:O	1:AH:839:VAL:O	2.26	0.53
1:AE:16:ILE:HG22	1:AE:29:GLU:HB2	1.90	0.53
1:AF:523:PHE:CE1	1:AF:545:TRP:NE1	2.75	0.53
1:AL:531:THR:OG1	1:AL:586:VAL:O	2.26	0.53
1:AO:812:VAL:HB	1:AP:817:MET:SD	2.48	0.53
1:A:827:LEU:CD2	1:B:795:PHE:CD1	2.92	0.53
1:F:531:THR:OG1	1:F:532:ALA:N	2.41	0.53
1:G:827:LEU:CD2	1:H:795:PHE:CD1	2.92	0.53
1:J:62:ALA:HB3	1:J:104:LEU:HB3	1.89	0.53
1:J:531:THR:OG1	1:J:586:VAL:O	2.26	0.53
1:K:17:HIS:NE2	1:K:99:LEU:O	2.35	0.53
1:P:624:ASP:O	1:P:625:ARG:NH1	2.42	0.53
1:T:531:THR:OG1	1:T:586:VAL:O	2.26	0.53
1:Y:88:MET:HB2	1:Y:155:LYS:HG3	1.90	0.53
1:b:531:THR:OG1	1:b:586:VAL:O	2.26	0.53
1:f:531:THR:OG1	1:f:586:VAL:O	2.26	0.53
1:i:120:ALA:HB2	1:i:205:LEU:HD21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:53:VAL:HG12	1:x:109:ILE:HG23	1.89	0.53
1:0:523:PHE:CE1	1:0:545:TRP:NE1	2.76	0.53
1:2:16:ILE:HG22	1:2:29:GLU:HB2	1.90	0.53
1:2:523:PHE:CE1	1:2:545:TRP:CE2	2.96	0.53
1:AC:812:VAL:HB	1:AD:817:MET:SD	2.48	0.53
1:AD:12:PRO:HB3	1:AD:32:PRO:HB3	1.89	0.53
1:AE:88:MET:HB2	1:AE:155:LYS:HG3	1.90	0.53
1:AH:129:PHE:CZ	1:AH:156:GLU:HB2	2.43	0.53
1:AP:531:THR:OG1	1:AP:532:ALA:N	2.41	0.53
1:D:639:ASP:OD2	1:F:573:LYS:NZ	2.40	0.53
1:H:531:THR:OG1	1:H:586:VAL:O	2.26	0.53
1:H:624:ASP:O	1:H:625:ARG:NH1	2.42	0.53
1:J:523:PHE:HB2	1:J:543:TYR:HD2	1.73	0.53
1:N:531:THR:OG1	1:N:586:VAL:O	2.26	0.53
1:R:121:LEU:HB2	1:R:145:PHE:HB3	1.89	0.53
1:Z:624:ASP:O	1:Z:625:ARG:NH1	2.42	0.53
1:b:624:ASP:O	1:b:625:ARG:NH1	2.42	0.53
1:i:121:LEU:HB2	1:i:145:PHE:HB3	1.89	0.53
1:i:599:ILE:O	1:i:603:VAL:HG23	2.08	0.53
1:n:722:ALA:HB1	1:u:732:ALA:HB2	1.89	0.53
1:o:523:PHE:CE1	1:o:545:TRP:NE1	2.76	0.53
1:u:812:VAL:HB	1:v:817:MET:SD	2.48	0.53
1:w:827:LEU:CD2	1:x:795:PHE:CE1	2.89	0.53
1:z:523:PHE:HB2	1:z:543:TYR:HD2	1.73	0.53
1:4:411:ASP:OD1	1:4:411:ASP:N	2.41	0.53
1:5:722:ALA:HB1	1:AC:732:ALA:HB2	1.89	0.53
1:8:723:LYS:O	1:8:727:GLU:HB2	2.09	0.53
1:AF:531:THR:OG1	1:AF:586:VAL:O	2.26	0.53
1:AF:624:ASP:O	1:AF:625:ARG:NH1	2.42	0.53
1:AH:531:THR:OG1	1:AH:586:VAL:O	2.26	0.53
1:AH:722:ALA:HB1	1:AO:732:ALA:HB2	1.89	0.53
1:AK:827:LEU:CD2	1:AL:795:PHE:CD1	2.92	0.53
1:AO:120:ALA:HB2	1:AO:205:LEU:HD21	1.90	0.53
1:A:827:LEU:CD1	1:B:795:PHE:CD1	2.91	0.53
1:E:121:LEU:HB2	1:E:145:PHE:HB3	1.89	0.53
1:J:95:ASP:N	1:J:95:ASP:OD1	2.38	0.53
1:K:232:ARG:HD3	1:K:266:GLU:HB2	1.90	0.53
1:R:12:PRO:HB3	1:R:32:PRO:HB3	1.89	0.53
1:S:523:PHE:CE1	1:S:545:TRP:CE2	2.96	0.53
1:X:121:LEU:HB2	1:X:145:PHE:HB3	1.89	0.53
1:b:639:ASP:OD2	1:d:573:LYS:NZ	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:232:ARG:HD3	1:c:266:GLU:HB2	1.90	0.53
1:f:624:ASP:O	1:f:625:ARG:NH1	2.42	0.53
1:h:531:THR:OG1	1:h:586:VAL:O	2.26	0.53
1:k:827:LEU:CD2	1:l:795:PHE:CE1	2.89	0.53
1:o:60:VAL:HA	1:o:89:GLU:O	2.08	0.53
1:o:120:ALA:HB2	1:o:205:LEU:HD21	1.90	0.53
1:o:812:VAL:HB	1:p:817:MET:SD	2.48	0.53
1:t:531:THR:OG1	1:t:586:VAL:O	2.26	0.53
1:x:624:ASP:O	1:x:625:ARG:NH1	2.42	0.53
1:5:624:ASP:O	1:5:625:ARG:NH1	2.42	0.53
1:AA:531:THR:OG1	1:AA:586:VAL:O	2.27	0.53
1:AC:120:ALA:HB2	1:AC:205:LEU:HD21	1.90	0.53
1:AC:599:ILE:O	1:AC:603:VAL:HG23	2.08	0.53
1:AE:531:THR:OG1	1:AE:586:VAL:O	2.26	0.53
1:AK:827:LEU:CD1	1:AL:795:PHE:CD1	2.91	0.53
1:AN:62:ALA:HB3	1:AN:104:LEU:HB3	1.89	0.53
1:AP:121:LEU:HB2	1:AP:145:PHE:HB3	1.89	0.53
1:AP:411:ASP:OD1	1:AP:411:ASP:N	2.41	0.53
1:P:62:ALA:HB3	1:P:104:LEU:HB3	1.89	0.53
1:S:827:LEU:CD1	1:T:795:PHE:CD1	2.91	0.53
1:T:624:ASP:O	1:T:625:ARG:NH1	2.42	0.53
1:V:523:PHE:HB2	1:V:543:TYR:HD2	1.73	0.53
1:Z:639:ASP:OD2	1:a:573:LYS:NZ	2.38	0.53
1:a:531:THR:OG1	1:a:586:VAL:O	2.27	0.53
1:c:120:ALA:HB2	1:c:205:LEU:HD21	1.90	0.53
1:c:121:LEU:HB2	1:c:145:PHE:HB3	1.89	0.53
1:d:423:VAL:HG13	1:d:514:LEU:HD11	1.91	0.53
1:g:411:ASP:OD1	1:g:411:ASP:N	2.41	0.53
1:h:624:ASP:O	1:h:625:ARG:NH1	2.42	0.53
1:k:827:LEU:CD1	1:l:795:PHE:CD1	2.91	0.53
1:l:531:THR:OG1	1:l:586:VAL:O	2.26	0.53
1:n:531:THR:OG1	1:n:586:VAL:O	2.26	0.53
1:o:95:ASP:N	1:o:95:ASP:OD1	2.42	0.53
1:p:423:VAL:HG13	1:p:514:LEU:HD11	1.91	0.53
1:s:639:ASP:OD2	1:w:573:LYS:NZ	2.31	0.53
1:t:129:PHE:CZ	1:t:156:GLU:HB2	2.43	0.53
1:u:95:ASP:N	1:u:95:ASP:OD1	2.42	0.53
1:v:423:VAL:HG13	1:v:514:LEU:HD11	1.91	0.53
1:6:599:ILE:O	1:6:603:VAL:HG23	2.08	0.53
1:8:523:PHE:CE1	1:8:545:TRP:CE2	2.96	0.53
1:9:53:VAL:HG12	1:9:109:ILE:HG23	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:95:ASP:N	1:AB:95:ASP:OD1	2.38	0.53
1:AI:523:PHE:CE1	1:AI:545:TRP:NE1	2.76	0.53
1:AJ:12:PRO:HB3	1:AJ:32:PRO:HB3	1.89	0.53
1:AJ:411:ASP:OD1	1:AJ:411:ASP:N	2.41	0.53
1:AO:232:ARG:HD3	1:AO:266:GLU:HB2	1.90	0.53
1:AO:523:PHE:CE1	1:AO:545:TRP:NE1	2.76	0.53
1:E:17:HIS:NE2	1:E:99:LEU:O	2.35	0.53
1:E:60:VAL:HA	1:E:89:GLU:O	2.08	0.53
1:L:531:THR:OG1	1:L:586:VAL:O	2.26	0.53
1:Q:812:VAL:HB	1:R:817:MET:SD	2.48	0.53
1:R:95:ASP:N	1:R:95:ASP:OD1	2.41	0.53
1:S:827:LEU:CD2	1:T:795:PHE:CD1	2.92	0.53
1:V:722:ALA:HB1	1:c:732:ALA:HB2	1.89	0.53
1:e:723:LYS:O	1:e:727:GLU:HB2	2.09	0.53
1:h:523:PHE:HB2	1:h:543:TYR:HD2	1.73	0.53
1:h:722:ALA:HB1	1:o:732:ALA:HB2	1.89	0.53
1:i:95:ASP:OD1	1:i:95:ASP:N	2.42	0.53
1:j:423:VAL:HG13	1:j:514:LEU:HD11	1.91	0.53
1:m:411:ASP:OD1	1:m:411:ASP:N	2.41	0.53
1:2:531:THR:OG1	1:2:586:VAL:O	2.26	0.53
1:2:827:LEU:CD1	1:3:795:PHE:CD1	2.91	0.53
1:5:62:ALA:HB3	1:5:104:LEU:HB3	1.89	0.53
1:7:12:PRO:HB3	1:7:32:PRO:HB3	1.89	0.53
1:AI:121:LEU:HB2	1:AI:145:PHE:HB3	1.89	0.53
1:AK:16:ILE:HG22	1:AK:29:GLU:HB2	1.90	0.53
1:E:120:ALA:HB2	1:E:205:LEU:HD21	1.90	0.53
1:G:827:LEU:CD1	1:H:795:PHE:CD1	2.91	0.53
1:O:423:VAL:HG13	1:O:514:LEU:HD11	1.91	0.53
1:Q:599:ILE:O	1:Q:603:VAL:HG23	2.08	0.53
1:S:16:ILE:HG22	1:S:29:GLU:HB2	1.90	0.53
1:W:120:ALA:HB2	1:W:205:LEU:HD21	1.90	0.53
1:X:423:VAL:HG13	1:X:514:LEU:HD11	1.91	0.53
1:Y:723:LYS:O	1:Y:727:GLU:HB2	2.09	0.53
1:k:827:LEU:CD2	1:l:795:PHE:CD1	2.92	0.53
1:w:723:LYS:O	1:w:727:GLU:HB2	2.09	0.53
1:0:232:ARG:HD3	1:0:266:GLU:HB2	1.90	0.53
1:3:624:ASP:O	1:3:625:ARG:NH1	2.42	0.53
1:7:95:ASP:N	1:7:95:ASP:OD1	2.40	0.53
1:8:827:LEU:CD2	1:9:795:PHE:CE1	2.89	0.53
1:AE:827:LEU:CD2	1:AF:795:PHE:CD1	2.92	0.53
1:AJ:95:ASP:OD1	1:AJ:95:ASP:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:531:THR:OG1	1:AJ:532:ALA:N	2.41	0.53
1:AJ:531:THR:OG1	1:AJ:586:VAL:O	2.26	0.53
1:AP:12:PRO:HB3	1:AP:32:PRO:HB3	1.89	0.53
1:C:423:VAL:HG13	1:C:514:LEU:HD11	1.91	0.53
1:L:12:PRO:HB3	1:L:32:PRO:HB3	1.89	0.53
1:L:129:PHE:CE2	1:L:156:GLU:HB2	2.40	0.53
1:L:531:THR:OG1	1:L:532:ALA:N	2.41	0.53
1:N:624:ASP:O	1:N:625:ARG:NH1	2.42	0.53
1:Q:120:ALA:HB2	1:Q:205:LEU:HD21	1.90	0.53
1:R:423:VAL:HG13	1:R:514:LEU:HD11	1.91	0.53
1:a:423:VAL:HG13	1:a:514:LEU:HD11	1.91	0.53
1:c:531:THR:OG1	1:c:586:VAL:O	2.27	0.53
1:g:531:THR:OG1	1:g:586:VAL:O	2.27	0.53
1:i:232:ARG:HD3	1:i:266:GLU:HB2	1.90	0.53
1:k:531:THR:OG1	1:k:586:VAL:O	2.26	0.53
1:k:723:LYS:O	1:k:727:GLU:HB2	2.09	0.53
1:l:624:ASP:O	1:l:625:ARG:NH1	2.42	0.53
1:t:639:ASP:OD2	1:v:573:LYS:NZ	2.40	0.53
1:t:722:ALA:HB1	1:0:732:ALA:HB2	1.89	0.53
1:w:827:LEU:CD1	1:x:795:PHE:CD1	2.91	0.53
1:z:624:ASP:O	1:z:625:ARG:NH1	2.42	0.53
1:1:423:VAL:HG13	1:1:514:LEU:HD11	1.91	0.53
1:6:818:GLN:O	1:6:822:LEU:HG	2.09	0.53
1:9:531:THR:OG1	1:9:586:VAL:O	2.26	0.53
1:AA:411:ASP:OD1	1:AA:411:ASP:N	2.41	0.53
1:AC:818:GLN:O	1:AC:822:LEU:HG	2.09	0.53
1:AG:531:THR:OG1	1:AG:586:VAL:O	2.27	0.53
1:AH:523:PHE:HB2	1:AH:543:TYR:HD2	1.73	0.53
1:AK:723:LYS:O	1:AK:727:GLU:HB2	2.09	0.53
1:AL:624:ASP:O	1:AL:625:ARG:NH1	2.42	0.53
1:AP:531:THR:OG1	1:AP:586:VAL:O	2.26	0.53
1:F:12:PRO:HB3	1:F:32:PRO:HB3	1.89	0.53
1:J:520:PRO:HA	1:J:545:TRP:O	2.09	0.53
1:K:120:ALA:HB2	1:K:205:LEU:HD21	1.90	0.53
1:P:520:PRO:HA	1:P:545:TRP:O	2.09	0.53
1:R:531:THR:OG1	1:R:586:VAL:O	2.26	0.53
1:V:624:ASP:O	1:V:625:ARG:NH1	2.42	0.53
1:b:520:PRO:HA	1:b:545:TRP:O	2.09	0.53
1:e:88:MET:HB2	1:e:155:LYS:HG3	1.90	0.53
1:m:531:THR:OG1	1:m:586:VAL:O	2.27	0.53
1:n:624:ASP:O	1:n:625:ARG:NH1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:531:THR:OG1	1:p:532:ALA:N	2.41	0.53
1:q:827:LEU:CD1	1:r:795:PHE:CD1	2.91	0.53
1:2:818:GLN:O	1:2:822:LEU:HG	2.09	0.53
1:3:53:VAL:HG12	1:3:109:ILE:HG23	1.89	0.53
1:8:88:MET:HB2	1:8:155:LYS:HG3	1.90	0.53
1:8:531:THR:OG1	1:8:586:VAL:O	2.26	0.53
1:8:818:GLN:O	1:8:822:LEU:HG	2.09	0.53
1:AD:95:ASP:OD1	1:AD:95:ASP:N	2.41	0.53
1:AL:639:ASP:OD2	1:AM:573:LYS:NZ	2.38	0.53
1:D:520:PRO:HA	1:D:545:TRP:O	2.09	0.53
1:D:531:THR:OG1	1:D:586:VAL:O	2.26	0.53
1:E:827:LEU:CD2	1:AN:795:PHE:CE1	2.92	0.53
1:J:795:PHE:CE1	1:Q:827:LEU:CD2	2.92	0.53
1:P:722:ALA:HB1	1:W:732:ALA:HB2	1.89	0.53
1:r:531:THR:OG1	1:r:586:VAL:O	2.26	0.53
1:0:531:THR:OG1	1:0:586:VAL:O	2.27	0.53
1:0:818:GLN:O	1:0:822:LEU:HG	2.09	0.53
1:AB:624:ASP:O	1:AB:625:ARG:NH1	2.42	0.53
1:AF:639:ASP:OD2	1:AG:573:LYS:NZ	2.38	0.53
1:AH:624:ASP:O	1:AH:625:ARG:NH1	2.42	0.53
1:AK:818:GLN:O	1:AK:822:LEU:HG	2.09	0.53
1:AK:827:LEU:CD2	1:AL:795:PHE:CE1	2.89	0.53
1:AN:523:PHE:HB2	1:AN:543:TYR:HD2	1.73	0.53
1:AN:624:ASP:O	1:AN:625:ARG:NH1	2.42	0.53
1:A:818:GLN:O	1:A:822:LEU:HG	2.09	0.52
1:D:722:ALA:HB1	1:K:732:ALA:HB2	1.89	0.52
1:E:818:GLN:O	1:E:822:LEU:HG	2.09	0.52
1:G:818:GLN:O	1:G:822:LEU:HG	2.09	0.52
1:I:423:VAL:HG13	1:I:514:LEU:HD11	1.91	0.52
1:J:624:ASP:O	1:J:625:ARG:NH1	2.42	0.52
1:S:723:LYS:O	1:S:727:GLU:HB2	2.09	0.52
1:Y:551:ASP:N	1:Y:551:ASP:OD1	2.43	0.52
1:c:423:VAL:HG13	1:c:514:LEU:HD11	1.91	0.52
1:h:299:LYS:HB2	1:h:369:VAL:HG11	1.92	0.52
1:m:423:VAL:HG13	1:m:514:LEU:HD11	1.91	0.52
1:n:423:VAL:HG13	1:n:514:LEU:HD11	1.92	0.52
1:q:723:LYS:O	1:q:727:GLU:HB2	2.09	0.52
1:q:794:LYS:NZ	1:q:851:LEU:CD2	2.69	0.52
1:t:624:ASP:O	1:t:625:ARG:NH1	2.42	0.52
1:u:423:VAL:HG13	1:u:514:LEU:HD11	1.91	0.52
1:w:16:ILE:HG22	1:w:29:GLU:HB2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:88:MET:HB2	1:w:155:LYS:HG3	1.90	0.52
1:8:827:LEU:CD1	1:9:795:PHE:CD1	2.91	0.52
1:8:827:LEU:CD2	1:9:795:PHE:CD1	2.92	0.52
1:AB:639:ASP:OD2	1:AD:573:LYS:NZ	2.40	0.52
1:AB:795:PHE:CE1	1:AI:827:LEU:CD2	2.92	0.52
1:AD:129:PHE:CE2	1:AD:156:GLU:HB2	2.40	0.52
1:L:411:ASP:OD1	1:L:411:ASP:N	2.41	0.52
1:U:423:VAL:HG13	1:U:514:LEU:HD11	1.91	0.52
1:b:299:LYS:HB2	1:b:369:VAL:HG11	1.92	0.52
1:b:423:VAL:HG13	1:b:514:LEU:HD11	1.92	0.52
1:c:794:LYS:HZ1	1:c:851:LEU:HD21	1.74	0.52
1:g:423:VAL:HG13	1:g:514:LEU:HD11	1.91	0.52
1:k:88:MET:HB2	1:k:155:LYS:HG3	1.90	0.52
1:n:299:LYS:HB2	1:n:369:VAL:HG11	1.92	0.52
1:n:520:PRO:HA	1:n:545:TRP:O	2.09	0.52
1:w:531:THR:OG1	1:w:586:VAL:O	2.26	0.52
1:2:88:MET:HB2	1:2:155:LYS:HG3	1.90	0.52
1:5:795:PHE:CE1	1:AC:827:LEU:CD2	2.92	0.52
1:9:624:ASP:O	1:9:625:ARG:NH1	2.42	0.52
1:AE:17:HIS:NE2	1:AE:99:LEU:O	2.36	0.52
1:AI:812:VAL:HB	1:AJ:817:MET:SD	2.48	0.52
1:AJ:129:PHE:CE2	1:AJ:156:GLU:HB2	2.40	0.52
1:AN:531:THR:OG1	1:AN:586:VAL:O	2.26	0.52
1:AO:121:LEU:HB2	1:AO:145:PHE:HB3	1.89	0.52
1:A:16:ILE:HG22	1:A:29:GLU:HB2	1.90	0.52
1:R:129:PHE:CE2	1:R:156:GLU:HB2	2.40	0.52
1:V:795:PHE:CE1	1:c:827:LEU:CD2	2.92	0.52
1:b:722:ALA:HB1	1:i:732:ALA:HB2	1.89	0.52
1:c:27:ARG:NH1	1:c:29:GLU:OE2	2.43	0.52
1:h:520:PRO:HA	1:h:545:TRP:O	2.09	0.52
1:i:60:VAL:HA	1:i:89:GLU:O	2.08	0.52
1:i:794:LYS:HZ1	1:i:851:LEU:HD21	1.74	0.52
1:o:232:ARG:HD3	1:o:266:GLU:HB2	1.90	0.52
1:o:531:THR:OG1	1:o:586:VAL:O	2.27	0.52
1:r:624:ASP:O	1:r:625:ARG:NH1	2.42	0.52
1:w:827:LEU:CD2	1:x:795:PHE:CD1	2.92	0.52
1:1:95:ASP:OD1	1:1:95:ASP:N	2.41	0.52
1:2:723:LYS:O	1:2:727:GLU:HB2	2.09	0.52
1:4:182:PHE:HE2	1:4:209:PHE:H	1.58	0.52
1:5:523:PHE:HB2	1:5:543:TYR:HD2	1.73	0.52
1:AB:299:LYS:HB2	1:AB:369:VAL:HG11	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:523:PHE:HB2	1:AB:543:TYR:HD2	1.73	0.52
1:AH:299:LYS:HB2	1:AH:369:VAL:HG11	1.92	0.52
1:A:723:LYS:O	1:A:727:GLU:HB2	2.09	0.52
1:A:827:LEU:CD2	1:B:795:PHE:CE1	2.89	0.52
1:B:121:LEU:HB2	1:B:145:PHE:HB3	1.91	0.52
1:B:624:ASP:O	1:B:625:ARG:NH1	2.42	0.52
1:E:232:ARG:HD3	1:E:266:GLU:HB2	1.90	0.52
1:H:121:LEU:HB2	1:H:145:PHE:HB3	1.91	0.52
1:L:423:VAL:HG13	1:L:514:LEU:HD11	1.91	0.52
1:M:827:LEU:CD1	1:N:795:PHE:CD1	2.91	0.52
1:P:423:VAL:HG13	1:P:514:LEU:HD11	1.92	0.52
1:R:531:THR:OG1	1:R:532:ALA:N	2.41	0.52
1:U:182:PHE:HE2	1:U:209:PHE:H	1.58	0.52
1:e:827:LEU:CD2	1:f:795:PHE:CD1	2.92	0.52
1:i:27:ARG:NH1	1:i:29:GLU:OE2	2.43	0.52
1:o:27:ARG:NH1	1:o:29:GLU:OE2	2.43	0.52
1:o:423:VAL:HG13	1:o:514:LEU:HD11	1.91	0.52
1:q:88:MET:HB2	1:q:155:LYS:HG3	1.90	0.52
1:q:827:LEU:CD2	1:r:795:PHE:CD1	2.92	0.52
1:t:299:LYS:HB2	1:t:369:VAL:HG11	1.92	0.52
1:2:827:LEU:CD2	1:3:795:PHE:CD1	2.92	0.52
1:5:299:LYS:HB2	1:5:369:VAL:HG11	1.92	0.52
1:AA:725:GLU:OE2	1:AA:729:ARG:NH1	2.43	0.52
1:AG:423:VAL:HG13	1:AG:514:LEU:HD11	1.91	0.52
1:AG:725:GLU:OE2	1:AG:729:ARG:NH1	2.43	0.52
1:AG:802:LEU:HD21	1:AG:810:LEU:HD13	1.92	0.52
1:AJ:802:LEU:HD21	1:AJ:810:LEU:HD13	1.92	0.52
1:AL:121:LEU:HB2	1:AL:145:PHE:HB3	1.91	0.52
1:AM:182:PHE:HE2	1:AM:209:PHE:H	1.58	0.52
1:AM:423:VAL:HG13	1:AM:514:LEU:HD11	1.91	0.52
1:C:531:THR:OG1	1:C:586:VAL:O	2.27	0.52
1:D:523:PHE:HB2	1:D:543:TYR:HD2	1.73	0.52
1:F:531:THR:OG1	1:F:586:VAL:O	2.26	0.52
1:K:818:GLN:O	1:K:822:LEU:HG	2.09	0.52
1:O:182:PHE:HE2	1:O:209:PHE:H	1.58	0.52
1:O:531:THR:OG1	1:O:586:VAL:O	2.27	0.52
1:S:827:LEU:CD2	1:T:795:PHE:CE1	2.89	0.52
1:V:299:LYS:HB2	1:V:369:VAL:HG11	1.92	0.52
1:W:27:ARG:NH1	1:W:29:GLU:OE2	2.43	0.52
1:a:182:PHE:HE2	1:a:209:PHE:H	1.58	0.52
1:b:523:PHE:HB2	1:b:543:TYR:HD2	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:423:VAL:HG13	1:h:514:LEU:HD11	1.92	0.52
1:m:182:PHE:HE2	1:m:209:PHE:H	1.58	0.52
1:y:182:PHE:HE2	1:y:209:PHE:H	1.58	0.52
1:z:299:LYS:HB2	1:z:369:VAL:HG11	1.92	0.52
1:4:531:THR:OG1	1:4:586:VAL:O	2.27	0.52
1:4:802:LEU:HD21	1:4:810:LEU:HD13	1.92	0.52
1:7:423:VAL:HG13	1:7:514:LEU:HD11	1.91	0.52
1:7:802:LEU:HD21	1:7:810:LEU:HD13	1.92	0.52
1:AD:802:LEU:HD21	1:AD:810:LEU:HD13	1.92	0.52
1:AE:723:LYS:O	1:AE:727:GLU:HB2	2.08	0.52
1:AG:182:PHE:HE2	1:AG:209:PHE:H	1.58	0.52
1:AM:725:GLU:OE2	1:AM:729:ARG:NH1	2.43	0.52
1:AN:520:PRO:HA	1:AN:545:TRP:O	2.09	0.52
1:AP:129:PHE:CE2	1:AP:156:GLU:HB2	2.40	0.52
1:AP:802:LEU:HD21	1:AP:810:LEU:HD13	1.92	0.52
1:C:182:PHE:HE2	1:C:209:PHE:H	1.58	0.52
1:C:725:GLU:OE2	1:C:729:ARG:NH1	2.43	0.52
1:I:725:GLU:OE2	1:I:729:ARG:NH1	2.43	0.52
1:M:551:ASP:OD1	1:M:551:ASP:N	2.43	0.52
1:O:725:GLU:OE2	1:O:729:ARG:NH1	2.43	0.52
1:Q:27:ARG:NH1	1:Q:29:GLU:OE2	2.43	0.52
1:S:411:ASP:OD1	1:S:411:ASP:N	2.43	0.52
1:U:725:GLU:OE2	1:U:729:ARG:NH1	2.43	0.52
1:Z:520:PRO:HA	1:Z:545:TRP:O	2.10	0.52
1:q:531:THR:OG1	1:q:586:VAL:O	2.26	0.52
1:s:182:PHE:HE2	1:s:209:PHE:H	1.58	0.52
1:t:423:VAL:HG13	1:t:514:LEU:HD11	1.92	0.52
1:u:27:ARG:NH1	1:u:29:GLU:OE2	2.43	0.52
1:z:423:VAL:HG13	1:z:514:LEU:HD11	1.92	0.52
1:1:802:LEU:HD21	1:1:810:LEU:HD13	1.92	0.52
1:3:531:THR:OG1	1:3:586:VAL:O	2.26	0.52
1:4:725:GLU:OE2	1:4:729:ARG:NH1	2.43	0.52
1:AA:182:PHE:HE2	1:AA:209:PHE:H	1.58	0.52
1:AD:423:VAL:HG13	1:AD:514:LEU:HD11	1.91	0.52
1:AG:531:THR:OG1	1:AG:532:ALA:N	2.43	0.52
1:AH:520:PRO:HA	1:AH:545:TRP:O	2.09	0.52
1:AH:732:ALA:HB2	1:AJ:722:ALA:HB1	1.92	0.52
1:AI:818:GLN:O	1:AI:822:LEU:HG	2.09	0.52
1:AK:551:ASP:OD1	1:AK:551:ASP:N	2.43	0.52
1:AM:531:THR:OG1	1:AM:532:ALA:N	2.43	0.52
1:AN:299:LYS:HB2	1:AN:369:VAL:HG11	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:17:HIS:NE2	1:AO:99:LEU:O	2.35	0.52
1:AO:818:GLN:O	1:AO:822:LEU:HG	2.09	0.52
1:F:129:PHE:CD2	1:F:156:GLU:HB3	2.38	0.52
1:G:723:LYS:O	1:G:727:GLU:HB2	2.09	0.52
1:M:818:GLN:O	1:M:822:LEU:HG	2.09	0.52
1:N:121:LEU:HB2	1:N:145:PHE:HB3	1.91	0.52
1:N:520:PRO:HA	1:N:545:TRP:O	2.10	0.52
1:V:423:VAL:HG13	1:V:514:LEU:HD11	1.92	0.52
1:X:129:PHE:CD2	1:X:156:GLU:HB3	2.38	0.52
1:i:551:ASP:N	1:i:551:ASP:OD1	2.43	0.52
1:i:818:GLN:O	1:i:822:LEU:HG	2.09	0.52
1:o:794:LYS:HZ1	1:o:851:LEU:HD21	1.74	0.52
1:q:551:ASP:N	1:q:551:ASP:OD1	2.43	0.52
1:s:423:VAL:HG13	1:s:514:LEU:HD11	1.91	0.52
1:w:794:LYS:NZ	1:w:851:LEU:CD2	2.69	0.52
1:x:531:THR:OG1	1:x:586:VAL:O	2.26	0.52
1:2:411:ASP:OD1	1:2:411:ASP:N	2.43	0.52
1:5:732:ALA:HB2	1:7:722:ALA:HB1	1.92	0.52
1:AA:423:VAL:HG13	1:AA:514:LEU:HD11	1.91	0.52
1:AA:531:THR:OG1	1:AA:532:ALA:N	2.43	0.52
1:AE:818:GLN:O	1:AE:822:LEU:HG	2.09	0.52
1:D:732:ALA:HB2	1:F:722:ALA:HB1	1.92	0.52
1:F:328:GLU:OE1	1:F:329:GLN:NE2	2.43	0.52
1:G:16:ILE:HG22	1:G:29:GLU:HB2	1.90	0.52
1:J:423:VAL:HG13	1:J:514:LEU:HD11	1.92	0.52
1:P:523:PHE:HB2	1:P:543:TYR:HD2	1.73	0.52
1:d:531:THR:OG1	1:d:532:ALA:N	2.41	0.52
1:g:182:PHE:HE2	1:g:209:PHE:H	1.58	0.52
1:i:423:VAL:HG13	1:i:514:LEU:HD11	1.91	0.52
1:s:411:ASP:OD1	1:s:411:ASP:N	2.41	0.52
1:u:232:ARG:HD3	1:u:266:GLU:HB2	1.90	0.52
1:w:411:ASP:OD1	1:w:411:ASP:N	2.43	0.52
1:w:818:GLN:O	1:w:822:LEU:HG	2.09	0.52
1:z:520:PRO:HA	1:z:545:TRP:O	2.09	0.52
1:AA:802:LEU:HD21	1:AA:810:LEU:HD13	1.92	0.52
1:AK:411:ASP:OD1	1:AK:411:ASP:N	2.43	0.52
1:AM:531:THR:OG1	1:AM:586:VAL:O	2.27	0.52
1:AO:531:THR:OG1	1:AO:586:VAL:O	2.27	0.52
1:AP:328:GLU:OE1	1:AP:329:GLN:NE2	2.43	0.52
1:F:802:LEU:HD21	1:F:810:LEU:HD13	1.92	0.52
1:G:411:ASP:OD1	1:G:411:ASP:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:723:LYS:O	1:M:727:GLU:HB2	2.09	0.52
1:R:328:GLU:OE1	1:R:329:GLN:NE2	2.43	0.52
1:T:520:PRO:HA	1:T:545:TRP:O	2.10	0.52
1:X:531:THR:OG1	1:X:532:ALA:N	2.41	0.52
1:Y:818:GLN:O	1:Y:822:LEU:HG	2.09	0.52
1:d:95:ASP:OD1	1:d:95:ASP:N	2.41	0.52
1:f:639:ASP:OD2	1:g:573:LYS:NZ	2.38	0.52
1:j:531:THR:OG1	1:j:532:ALA:N	2.41	0.52
1:k:411:ASP:OD1	1:k:411:ASP:N	2.43	0.52
1:l:520:PRO:HA	1:l:545:TRP:O	2.10	0.52
1:r:520:PRO:HA	1:r:545:TRP:O	2.10	0.52
1:u:818:GLN:O	1:u:822:LEU:HG	2.09	0.52
1:2:794:LYS:NZ	1:2:851:LEU:CD2	2.69	0.52
1:6:531:THR:OG1	1:6:586:VAL:O	2.27	0.52
1:AB:520:PRO:HA	1:AB:545:TRP:O	2.09	0.52
1:AD:531:THR:OG1	1:AD:586:VAL:O	2.26	0.52
1:AJ:423:VAL:HG13	1:AJ:514:LEU:HD11	1.91	0.52
1:AP:725:GLU:OE2	1:AP:729:ARG:NH1	2.43	0.52
1:A:121:LEU:HB2	1:A:145:PHE:HB3	1.92	0.52
1:C:802:LEU:HD21	1:C:810:LEU:HD13	1.92	0.52
1:F:423:VAL:HG13	1:F:514:LEU:HD11	1.91	0.52
1:F:725:GLU:OE2	1:F:729:ARG:NH1	2.43	0.52
1:I:182:PHE:HE2	1:I:209:PHE:H	1.58	0.52
1:J:837:THR:OG1	1:P:839:VAL:CG2	2.58	0.52
1:L:328:GLU:OE1	1:L:329:GLN:NE2	2.43	0.52
1:M:16:ILE:HG22	1:M:29:GLU:HB2	1.90	0.52
1:P:299:LYS:HB2	1:P:369:VAL:HG11	1.92	0.52
1:U:276:LEU:O	1:U:305:GLU:HA	2.10	0.52
1:a:276:LEU:O	1:a:305:GLU:HA	2.10	0.52
1:a:725:GLU:OE2	1:a:729:ARG:NH1	2.43	0.52
1:c:818:GLN:O	1:c:822:LEU:HG	2.09	0.52
1:i:531:THR:OG1	1:i:586:VAL:O	2.27	0.52
1:j:95:ASP:N	1:j:95:ASP:OD1	2.40	0.52
1:o:818:GLN:O	1:o:822:LEU:HG	2.09	0.52
1:p:531:THR:OG1	1:p:586:VAL:O	2.26	0.52
1:t:520:PRO:HA	1:t:545:TRP:O	2.09	0.52
1:y:725:GLU:OE2	1:y:729:ARG:NH1	2.43	0.52
1:0:27:ARG:NH1	1:0:29:GLU:OE2	2.43	0.52
1:2:423:VAL:HG13	1:2:514:LEU:HD11	1.91	0.52
1:4:531:THR:OG1	1:4:532:ALA:N	2.43	0.52
1:9:639:ASP:OD2	1:AA:573:LYS:NZ	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:802:LEU:HD23	1:AG:807:ILE:HG13	1.92	0.52
1:AH:837:THR:OG1	1:AN:839:VAL:CG2	2.58	0.52
1:AJ:725:GLU:OE2	1:AJ:729:ARG:NH1	2.43	0.52
1:AJ:802:LEU:HD23	1:AJ:807:ILE:HG13	1.93	0.52
1:AK:121:LEU:HB2	1:AK:145:PHE:HB3	1.92	0.52
1:AN:732:ALA:HB2	1:AP:722:ALA:HB1	1.92	0.52
1:D:839:VAL:CG2	1:AN:837:THR:OG1	2.58	0.51
1:E:423:VAL:HG13	1:E:514:LEU:HD11	1.91	0.51
1:I:802:LEU:HD23	1:I:807:ILE:HG13	1.93	0.51
1:J:732:ALA:HB2	1:L:722:ALA:HB1	1.92	0.51
1:K:95:ASP:OD1	1:K:95:ASP:N	2.42	0.51
1:M:121:LEU:HB2	1:M:145:PHE:HB3	1.92	0.51
1:O:276:LEU:O	1:O:305:GLU:HA	2.10	0.51
1:U:531:THR:OG1	1:U:586:VAL:O	2.27	0.51
1:X:182:PHE:HE2	1:X:209:PHE:H	1.59	0.51
1:e:551:ASP:OD1	1:e:551:ASP:N	2.43	0.51
1:k:818:GLN:O	1:k:822:LEU:HG	2.09	0.51
1:t:795:PHE:CE1	1:0:827:LEU:CD2	2.92	0.51
1:u:551:ASP:OD1	1:u:551:ASP:N	2.43	0.51
1:v:531:THR:OG1	1:v:586:VAL:O	2.26	0.51
1:y:802:LEU:HD21	1:y:810:LEU:HD13	1.92	0.51
1:4:423:VAL:HG13	1:4:514:LEU:HD11	1.91	0.51
1:4:802:LEU:HD23	1:4:807:ILE:HG13	1.92	0.51
1:5:423:VAL:HG13	1:5:514:LEU:HD11	1.92	0.51
1:7:182:PHE:HE2	1:7:209:PHE:H	1.59	0.51
1:8:423:VAL:HG13	1:8:514:LEU:HD11	1.91	0.51
1:AA:802:LEU:HD23	1:AA:807:ILE:HG13	1.93	0.51
1:AD:328:GLU:OE1	1:AD:329:GLN:NE2	2.43	0.51
1:AD:802:LEU:HD23	1:AD:807:ILE:HG13	1.92	0.51
1:AI:423:VAL:HG13	1:AI:514:LEU:HD11	1.91	0.51
1:AM:802:LEU:HD21	1:AM:810:LEU:HD13	1.92	0.51
1:AO:423:VAL:HG13	1:AO:514:LEU:HD11	1.91	0.51
1:AP:423:VAL:HG13	1:AP:514:LEU:HD11	1.91	0.51
1:C:802:LEU:HD23	1:C:807:ILE:HG13	1.93	0.51
1:D:423:VAL:HG13	1:D:514:LEU:HD11	1.92	0.51
1:G:121:LEU:HB2	1:G:145:PHE:HB3	1.92	0.51
1:K:27:ARG:NH1	1:K:29:GLU:OE2	2.43	0.51
1:O:802:LEU:HD23	1:O:807:ILE:HG13	1.93	0.51
1:P:732:ALA:HB2	1:R:722:ALA:HB1	1.92	0.51
1:R:182:PHE:HE2	1:R:209:PHE:H	1.59	0.51
1:W:411:ASP:OD1	1:W:411:ASP:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:818:GLN:O	1:W:822:LEU:HG	2.09	0.51
1:d:531:THR:OG1	1:d:586:VAL:O	2.26	0.51
1:d:802:LEU:HD23	1:d:807:ILE:HG13	1.93	0.51
1:e:818:GLN:O	1:e:822:LEU:HG	2.09	0.51
1:j:182:PHE:HE2	1:j:209:PHE:H	1.59	0.51
1:j:531:THR:OG1	1:j:586:VAL:O	2.26	0.51
1:j:802:LEU:HD23	1:j:807:ILE:HG13	1.92	0.51
1:n:795:PHE:CE1	1:u:827:LEU:CD2	2.92	0.51
1:p:328:GLU:OE1	1:p:329:GLN:NE2	2.43	0.51
1:u:531:THR:OG1	1:u:586:VAL:O	2.27	0.51
1:w:423:VAL:HG13	1:w:514:LEU:HD11	1.91	0.51
1:y:531:THR:OG1	1:y:532:ALA:N	2.43	0.51
1:3:520:PRO:HA	1:3:545:TRP:O	2.10	0.51
1:6:423:VAL:HG13	1:6:514:LEU:HD11	1.91	0.51
1:AD:725:GLU:OE2	1:AD:729:ARG:NH1	2.43	0.51
1:AE:121:LEU:HB2	1:AE:145:PHE:HB3	1.92	0.51
1:AF:121:LEU:HB2	1:AF:145:PHE:HB3	1.91	0.51
1:AM:802:LEU:HD23	1:AM:807:ILE:HG13	1.93	0.51
1:AP:802:LEU:HD23	1:AP:807:ILE:HG13	1.93	0.51
1:E:95:ASP:N	1:E:95:ASP:OD1	2.42	0.51
1:I:88:MET:HB2	1:I:155:LYS:HG3	1.93	0.51
1:T:121:LEU:HB2	1:T:145:PHE:HB3	1.91	0.51
1:T:639:ASP:OD2	1:U:573:LYS:NZ	2.38	0.51
1:V:520:PRO:HA	1:V:545:TRP:O	2.09	0.51
1:W:423:VAL:HG13	1:W:514:LEU:HD11	1.91	0.51
1:X:802:LEU:HD23	1:X:807:ILE:HG13	1.92	0.51
1:b:732:ALA:HB2	1:d:722:ALA:HB1	1.92	0.51
1:b:795:PHE:CE1	1:i:827:LEU:CD2	2.92	0.51
1:g:276:LEU:O	1:g:305:GLU:HA	2.10	0.51
1:k:423:VAL:HG13	1:k:514:LEU:HD11	1.91	0.51
1:p:182:PHE:HE2	1:p:209:PHE:H	1.59	0.51
1:q:423:VAL:HG13	1:q:514:LEU:HD11	1.91	0.51
1:s:276:LEU:O	1:s:305:GLU:HA	2.11	0.51
1:u:88:MET:HB2	1:u:155:LYS:HG3	1.92	0.51
1:y:423:VAL:HG13	1:y:514:LEU:HD11	1.91	0.51
1:0:95:ASP:OD1	1:0:95:ASP:N	2.42	0.51
1:1:182:PHE:HE2	1:1:209:PHE:H	1.59	0.51
1:1:531:THR:OG1	1:1:586:VAL:O	2.26	0.51
1:4:130:GLU:HG3	1:4:130:GLU:O	2.11	0.51
1:5:520:PRO:HA	1:5:545:TRP:O	2.09	0.51
1:5:837:THR:OG1	1:AB:839:VAL:CG2	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:802:LEU:HD23	1:7:807:ILE:HG13	1.93	0.51
1:AD:182:PHE:HE2	1:AD:209:PHE:H	1.59	0.51
1:AE:423:VAL:HG13	1:AE:514:LEU:HD11	1.91	0.51
1:AE:551:ASP:OD1	1:AE:551:ASP:N	2.43	0.51
1:B:520:PRO:HA	1:B:545:TRP:O	2.10	0.51
1:I:276:LEU:O	1:I:305:GLU:HA	2.10	0.51
1:K:423:VAL:HG13	1:K:514:LEU:HD11	1.91	0.51
1:L:182:PHE:HE2	1:L:209:PHE:H	1.59	0.51
1:U:802:LEU:HD23	1:U:807:ILE:HG13	1.92	0.51
1:X:531:THR:OG1	1:X:586:VAL:O	2.26	0.51
1:c:551:ASP:N	1:c:551:ASP:OD1	2.43	0.51
1:f:520:PRO:HA	1:f:545:TRP:O	2.10	0.51
1:i:411:ASP:OD1	1:i:411:ASP:N	2.44	0.51
1:o:88:MET:HB2	1:o:155:LYS:HG3	1.92	0.51
1:v:802:LEU:HD23	1:v:807:ILE:HG13	1.93	0.51
1:x:520:PRO:HA	1:x:545:TRP:O	2.10	0.51
1:0:88:MET:HB2	1:0:155:LYS:HG3	1.92	0.51
1:1:802:LEU:HD23	1:1:807:ILE:HG13	1.93	0.51
1:7:531:THR:OG1	1:7:586:VAL:O	2.26	0.51
1:8:121:LEU:HB2	1:8:145:PHE:HB3	1.92	0.51
1:9:121:LEU:HB2	1:9:145:PHE:HB3	1.92	0.51
1:AC:423:VAL:HG13	1:AC:514:LEU:HD11	1.91	0.51
1:AN:423:VAL:HG13	1:AN:514:LEU:HD11	1.92	0.51
1:AO:27:ARG:NH1	1:AO:29:GLU:OE2	2.43	0.51
1:C:88:MET:HB2	1:C:155:LYS:HG3	1.93	0.51
1:D:299:LYS:HB2	1:D:369:VAL:HG11	1.92	0.51
1:E:27:ARG:NH1	1:E:29:GLU:OE2	2.43	0.51
1:F:182:PHE:HE2	1:F:209:PHE:H	1.58	0.51
1:I:531:THR:OG1	1:I:586:VAL:O	2.27	0.51
1:O:88:MET:HB2	1:O:155:LYS:HG3	1.93	0.51
1:Q:95:ASP:OD1	1:Q:95:ASP:N	2.42	0.51
1:Q:423:VAL:HG13	1:Q:514:LEU:HD11	1.91	0.51
1:X:95:ASP:N	1:X:95:ASP:OD1	2.41	0.51
1:Y:423:VAL:HG13	1:Y:514:LEU:HD11	1.91	0.51
1:e:423:VAL:HG13	1:e:514:LEU:HD11	1.91	0.51
1:f:121:LEU:HB2	1:f:145:PHE:HB3	1.91	0.51
1:g:725:GLU:OE2	1:g:729:ARG:NH1	2.43	0.51
1:h:837:THR:OG1	1:n:839:VAL:CG2	2.58	0.51
1:j:328:GLU:OE1	1:j:329:GLN:NE2	2.43	0.51
1:m:802:LEU:HD23	1:m:807:ILE:HG13	1.92	0.51
1:p:802:LEU:HD23	1:p:807:ILE:HG13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:818:GLN:O	1:q:822:LEU:HG	2.09	0.51
1:x:732:ALA:HB2	1:y:722:ALA:HB1	1.93	0.51
1:3:732:ALA:HB2	1:4:722:ALA:HB1	1.93	0.51
1:AF:129:PHE:O	1:AF:129:PHE:CG	2.64	0.51
1:AG:639:ASP:OD2	1:AK:573:LYS:NZ	2.31	0.51
1:AJ:182:PHE:HE2	1:AJ:209:PHE:H	1.59	0.51
1:E:411:ASP:OD1	1:E:411:ASP:N	2.44	0.51
1:F:802:LEU:HD23	1:F:807:ILE:HG13	1.93	0.51
1:S:423:VAL:HG13	1:S:514:LEU:HD11	1.91	0.51
1:U:802:LEU:HD21	1:U:810:LEU:HD13	1.92	0.51
1:Y:121:LEU:HB2	1:Y:145:PHE:HB3	1.92	0.51
1:Z:121:LEU:HB2	1:Z:145:PHE:HB3	1.91	0.51
1:a:802:LEU:HD21	1:a:810:LEU:HD13	1.92	0.51
1:d:802:LEU:HD21	1:d:810:LEU:HD13	1.92	0.51
1:g:802:LEU:HD23	1:g:807:ILE:HG13	1.92	0.51
1:n:837:THR:OG1	1:t:839:VAL:CG2	2.58	0.51
1:s:802:LEU:HD23	1:s:807:ILE:HG13	1.93	0.51
1:u:411:ASP:OD1	1:u:411:ASP:N	2.44	0.51
1:v:182:PHE:HE2	1:v:209:PHE:H	1.59	0.51
1:v:802:LEU:HD21	1:v:810:LEU:HD13	1.92	0.51
1:6:27:ARG:NH1	1:6:29:GLU:OE2	2.43	0.51
1:6:88:MET:HB2	1:6:155:LYS:HG3	1.92	0.51
1:7:725:GLU:OE2	1:7:729:ARG:NH1	2.43	0.51
1:8:794:LYS:NZ	1:8:851:LEU:CD2	2.69	0.51
1:AB:423:VAL:HG13	1:AB:514:LEU:HD11	1.92	0.51
1:AB:732:ALA:HB2	1:AD:722:ALA:HB1	1.92	0.51
1:AG:130:GLU:HG3	1:AG:130:GLU:O	2.11	0.51
1:AH:423:VAL:HG13	1:AH:514:LEU:HD11	1.92	0.51
1:AM:88:MET:HB2	1:AM:155:LYS:HG3	1.93	0.51
1:C:276:LEU:O	1:C:305:GLU:HA	2.11	0.51
1:D:837:THR:OG1	1:J:839:VAL:CG2	2.58	0.51
1:M:423:VAL:HG13	1:M:514:LEU:HD11	1.91	0.51
1:Q:818:GLN:O	1:Q:822:LEU:HG	2.09	0.51
1:R:802:LEU:HD23	1:R:807:ILE:HG13	1.93	0.51
1:S:121:LEU:HB2	1:S:145:PHE:HB3	1.92	0.51
1:d:182:PHE:HE2	1:d:209:PHE:H	1.59	0.51
1:l:121:LEU:HB2	1:l:145:PHE:HB3	1.91	0.51
1:l:732:ALA:HB2	1:m:722:ALA:HB1	1.93	0.51
1:m:276:LEU:O	1:m:305:GLU:HA	2.10	0.51
1:s:130:GLU:O	1:s:130:GLU:HG3	2.11	0.51
1:t:732:ALA:HB2	1:v:722:ALA:HB1	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:794:LYS:HZ1	1:u:851:LEU:HD21	1.74	0.51
1:v:95:ASP:OD1	1:v:95:ASP:N	2.41	0.51
1:y:802:LEU:HD23	1:y:807:ILE:HG13	1.93	0.51
1:z:795:PHE:CE1	1:6:827:LEU:CD2	2.92	0.51
1:0:423:VAL:HG13	1:0:514:LEU:HD11	1.91	0.51
1:9:129:PHE:O	1:9:129:PHE:CG	2.64	0.51
1:AA:276:LEU:O	1:AA:305:GLU:HA	2.11	0.51
1:AG:276:LEU:O	1:AG:305:GLU:HA	2.10	0.51
1:AI:27:ARG:NH1	1:AI:29:GLU:OE2	2.43	0.51
1:AL:129:PHE:O	1:AL:129:PHE:CG	2.64	0.51
1:AM:130:GLU:HG3	1:AM:130:GLU:O	2.11	0.51
1:AO:411:ASP:OD1	1:AO:411:ASP:N	2.44	0.51
1:A:551:ASP:N	1:A:551:ASP:OD1	2.43	0.51
1:C:531:THR:OG1	1:C:532:ALA:N	2.43	0.51
1:E:128:ASP:HB3	1:E:136:LYS:HZ1	1.76	0.51
1:F:129:PHE:CE2	1:F:156:GLU:HB2	2.40	0.51
1:H:124:ARG:NH1	1:H:142:GLU:OE2	2.44	0.51
1:I:802:LEU:HD21	1:I:810:LEU:HD13	1.92	0.51
1:S:328:GLU:O	1:S:360:ARG:NH2	2.44	0.51
1:U:88:MET:HB2	1:U:155:LYS:HG3	1.93	0.51
1:a:802:LEU:HD23	1:a:807:ILE:HG13	1.93	0.51
1:g:531:THR:OG1	1:g:532:ALA:N	2.43	0.51
1:m:328:GLU:OE1	1:m:329:GLN:NE2	2.44	0.51
1:m:531:THR:OG1	1:m:532:ALA:N	2.43	0.51
1:n:417:LYS:O	1:n:452:ARG:NH2	2.43	0.51
1:n:732:ALA:HB2	1:p:722:ALA:HB1	1.92	0.51
1:v:328:GLU:OE1	1:v:329:GLN:NE2	2.43	0.51
1:1:725:GLU:OE2	1:1:729:ARG:NH1	2.43	0.51
1:3:121:LEU:HB2	1:3:145:PHE:HB3	1.91	0.51
1:8:551:ASP:N	1:8:551:ASP:OD1	2.43	0.51
1:AC:95:ASP:N	1:AC:95:ASP:OD1	2.42	0.51
1:AF:732:ALA:HB2	1:AG:722:ALA:HB1	1.93	0.51
1:AI:95:ASP:OD1	1:AI:95:ASP:N	2.42	0.51
1:AJ:328:GLU:OE1	1:AJ:329:GLN:NE2	2.43	0.51
1:AM:276:LEU:O	1:AM:305:GLU:HA	2.11	0.51
1:B:129:PHE:O	1:B:129:PHE:CG	2.64	0.51
1:G:423:VAL:HG13	1:G:514:LEU:HD11	1.91	0.51
1:I:130:GLU:HG3	1:I:130:GLU:O	2.11	0.51
1:M:328:GLU:O	1:M:360:ARG:NH2	2.44	0.51
1:P:523:PHE:CE1	1:P:545:TRP:NE1	2.79	0.51
1:P:795:PHE:CE1	1:W:827:LEU:CD2	2.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:551:ASP:N	1:S:551:ASP:OD1	2.42	0.51
1:V:837:THR:OG1	1:b:839:VAL:CG2	2.58	0.51
1:a:531:THR:OG1	1:a:532:ALA:N	2.43	0.51
1:b:523:PHE:CE1	1:b:545:TRP:NE1	2.79	0.51
1:d:328:GLU:OE1	1:d:329:GLN:NE2	2.43	0.51
1:g:802:LEU:HD21	1:g:810:LEU:HD13	1.92	0.51
1:i:88:MET:HB2	1:i:155:LYS:HG3	1.92	0.51
1:l:124:ARG:NH1	1:l:142:GLU:OE2	2.44	0.51
1:x:121:LEU:HB2	1:x:145:PHE:HB3	1.91	0.51
1:x:124:ARG:NH1	1:x:142:GLU:OE2	2.44	0.51
1:z:732:ALA:HB2	1:1:722:ALA:HB1	1.92	0.51
1:3:129:PHE:O	1:3:129:PHE:CG	2.64	0.51
1:4:276:LEU:O	1:4:305:GLU:HA	2.10	0.51
1:4:328:GLU:OE1	1:4:329:GLN:NE2	2.44	0.51
1:AC:128:ASP:HB3	1:AC:136:LYS:HZ1	1.76	0.51
1:AK:423:VAL:HG13	1:AK:514:LEU:HD11	1.91	0.51
1:AO:88:MET:HB2	1:AO:155:LYS:HG3	1.92	0.51
1:AP:182:PHE:HE2	1:AP:209:PHE:H	1.59	0.51
1:B:124:ARG:NH1	1:B:142:GLU:OE2	2.44	0.51
1:B:417:LYS:O	1:B:452:ARG:NH2	2.42	0.51
1:F:122:HIS:NE2	1:F:142:GLU:OE1	2.44	0.51
1:J:299:LYS:HB2	1:J:369:VAL:HG11	1.92	0.51
1:N:417:LYS:O	1:N:452:ARG:NH2	2.42	0.51
1:O:130:GLU:HG3	1:O:130:GLU:O	2.11	0.51
1:O:531:THR:OG1	1:O:532:ALA:N	2.43	0.51
1:O:802:LEU:HD21	1:O:810:LEU:HD13	1.92	0.51
1:Q:411:ASP:OD1	1:Q:411:ASP:N	2.44	0.51
1:R:802:LEU:HD21	1:R:810:LEU:HD13	1.92	0.51
1:U:531:THR:OG1	1:U:532:ALA:N	2.43	0.51
1:X:802:LEU:HD21	1:X:810:LEU:HD13	1.92	0.51
1:Z:129:PHE:O	1:Z:129:PHE:CG	2.64	0.51
1:a:417:LYS:O	1:a:452:ARG:NH2	2.42	0.51
1:b:837:THR:OG1	1:h:839:VAL:CG2	2.58	0.51
1:h:795:PHE:CE1	1:o:827:LEU:CD2	2.92	0.51
1:r:732:ALA:HB2	1:s:722:ALA:HB1	1.93	0.51
1:s:531:THR:OG1	1:s:532:ALA:N	2.43	0.51
1:x:481:VAL:HG21	1:x:487:VAL:HB	1.93	0.51
1:z:417:LYS:O	1:z:452:ARG:NH2	2.43	0.51
1:2:551:ASP:OD1	1:2:551:ASP:N	2.43	0.51
1:3:481:VAL:HG21	1:3:487:VAL:HB	1.93	0.51
1:3:717:GLU:HB2	1:4:707:LEU:HD13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:523:PHE:CE1	1:5:545:TRP:NE1	2.79	0.51
1:AA:130:GLU:HG3	1:AA:130:GLU:O	2.11	0.51
1:AB:837:THR:OG1	1:AH:839:VAL:CG2	2.58	0.51
1:AF:520:PRO:HA	1:AF:545:TRP:O	2.10	0.51
1:AG:88:MET:HB2	1:AG:155:LYS:HG3	1.93	0.51
1:AK:17:HIS:NE2	1:AK:99:LEU:O	2.36	0.51
1:A:120:ALA:HB2	1:A:205:LEU:HD21	1.93	0.50
1:C:130:GLU:HG3	1:C:130:GLU:O	2.11	0.50
1:D:523:PHE:CE1	1:D:545:TRP:NE1	2.79	0.50
1:E:88:MET:HB2	1:E:155:LYS:HG3	1.92	0.50
1:L:802:LEU:HD23	1:L:807:ILE:HG13	1.93	0.50
1:T:129:PHE:O	1:T:129:PHE:CG	2.64	0.50
1:Y:328:GLU:O	1:Y:360:ARG:NH2	2.44	0.50
1:c:95:ASP:OD1	1:c:95:ASP:N	2.42	0.50
1:d:725:GLU:OE2	1:d:729:ARG:NH1	2.43	0.50
1:f:129:PHE:O	1:f:129:PHE:CG	2.64	0.50
1:f:717:GLU:HB2	1:g:707:LEU:HD13	1.94	0.50
1:j:725:GLU:OE2	1:j:729:ARG:NH1	2.43	0.50
1:n:639:ASP:OD2	1:p:573:LYS:NZ	2.40	0.50
1:o:551:ASP:OD1	1:o:551:ASP:N	2.43	0.50
1:p:725:GLU:OE2	1:p:729:ARG:NH1	2.43	0.50
1:r:481:VAL:HG21	1:r:487:VAL:HB	1.93	0.50
1:v:725:GLU:OE2	1:v:729:ARG:NH1	2.43	0.50
1:y:328:GLU:OE1	1:y:329:GLN:NE2	2.44	0.50
1:1:328:GLU:OE1	1:1:329:GLN:NE2	2.43	0.50
1:2:121:LEU:HB2	1:2:145:PHE:HB3	1.92	0.50
1:7:328:GLU:OE1	1:7:329:GLN:NE2	2.43	0.50
1:9:481:VAL:HG21	1:9:487:VAL:HB	1.93	0.50
1:9:732:ALA:HB2	1:AA:722:ALA:HB1	1.93	0.50
1:AH:795:PHE:CE1	1:AO:827:LEU:CD2	2.92	0.50
1:AI:17:HIS:NE2	1:AI:99:LEU:O	2.35	0.50
1:D:795:PHE:CE1	1:K:827:LEU:CD2	2.92	0.50
1:I:531:THR:OG1	1:I:532:ALA:N	2.43	0.50
1:L:802:LEU:HD21	1:L:810:LEU:HD13	1.92	0.50
1:S:818:GLN:O	1:S:822:LEU:HG	2.09	0.50
1:a:821:LEU:HD22	1:f:822:LEU:HD22	1.93	0.50
1:l:129:PHE:O	1:l:129:PHE:CG	2.64	0.50
1:p:88:MET:HB2	1:p:155:LYS:HG3	1.93	0.50
1:t:837:THR:OG1	1:z:839:VAL:CG2	2.58	0.50
1:v:88:MET:HB2	1:v:155:LYS:HG3	1.93	0.50
1:w:121:LEU:HB2	1:w:145:PHE:HB3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:129:PHE:O	1:x:129:PHE:CG	2.64	0.50
1:y:95:ASP:OD1	1:y:95:ASP:N	2.44	0.50
1:z:523:PHE:CE1	1:z:545:TRP:NE1	2.79	0.50
1:3:639:ASP:OD2	1:4:573:LYS:NZ	2.38	0.50
1:4:95:ASP:N	1:4:95:ASP:OD1	2.44	0.50
1:8:120:ALA:HB2	1:8:205:LEU:HD21	1.93	0.50
1:9:520:PRO:HA	1:9:545:TRP:O	2.10	0.50
1:AB:523:PHE:CE1	1:AB:545:TRP:NE1	2.79	0.50
1:AE:120:ALA:HB2	1:AE:205:LEU:HD21	1.93	0.50
1:AI:88:MET:HB2	1:AI:155:LYS:HG3	1.92	0.50
1:AL:124:ARG:NH1	1:AL:142:GLU:OE2	2.44	0.50
1:AO:95:ASP:OD1	1:AO:95:ASP:N	2.42	0.50
1:AO:794:LYS:NZ	1:AO:851:LEU:HD21	2.27	0.50
1:AP:129:PHE:CD2	1:AP:156:GLU:HB3	2.38	0.50
1:E:551:ASP:OD1	1:E:551:ASP:N	2.43	0.50
1:E:794:LYS:NZ	1:E:851:LEU:HD21	2.27	0.50
1:H:520:PRO:HA	1:H:545:TRP:O	2.10	0.50
1:J:417:LYS:O	1:J:452:ARG:NH2	2.43	0.50
1:N:124:ARG:NH1	1:N:142:GLU:OE2	2.44	0.50
1:T:124:ARG:NH1	1:T:142:GLU:OE2	2.44	0.50
1:T:717:GLU:HB2	1:U:707:LEU:HD13	1.94	0.50
1:U:821:LEU:HD22	1:Z:822:LEU:HD22	1.94	0.50
1:X:328:GLU:OE1	1:X:329:GLN:NE2	2.43	0.50
1:Z:124:ARG:NH1	1:Z:142:GLU:OE2	2.44	0.50
1:Z:717:GLU:HB2	1:a:707:LEU:HD13	1.94	0.50
1:j:802:LEU:HD21	1:j:810:LEU:HD13	1.92	0.50
1:k:17:HIS:NE2	1:k:99:LEU:O	2.36	0.50
1:k:121:LEU:HB2	1:k:145:PHE:HB3	1.92	0.50
1:l:481:VAL:HG21	1:l:487:VAL:HB	1.93	0.50
1:l:717:GLU:HB2	1:m:707:LEU:HD13	1.94	0.50
1:m:130:GLU:HG3	1:m:130:GLU:O	2.11	0.50
1:m:802:LEU:HD21	1:m:810:LEU:HD13	1.92	0.50
1:q:328:GLU:O	1:q:360:ARG:NH2	2.44	0.50
1:r:124:ARG:NH1	1:r:142:GLU:OE2	2.44	0.50
1:v:17:HIS:NE2	1:v:99:LEU:O	2.38	0.50
1:1:88:MET:HB2	1:1:155:LYS:HG3	1.93	0.50
1:AK:120:ALA:HB2	1:AK:205:LEU:HD21	1.93	0.50
1:AL:520:PRO:HA	1:AL:545:TRP:O	2.10	0.50
1:AM:417:LYS:O	1:AM:452:ARG:NH2	2.42	0.50
1:E:812:VAL:CG1	1:F:814:GLY:HA2	2.42	0.50
1:G:120:ALA:HB2	1:G:205:LEU:HD21	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:129:PHE:O	1:H:129:PHE:CG	2.64	0.50
1:K:812:VAL:CG1	1:L:814:GLY:HA2	2.42	0.50
1:P:755:THR:O	1:P:759:LEU:HB2	2.12	0.50
1:P:837:THR:OG1	1:V:839:VAL:CG2	2.58	0.50
1:Q:812:VAL:CG1	1:R:814:GLY:HA2	2.42	0.50
1:U:130:GLU:HG3	1:U:130:GLU:O	2.11	0.50
1:V:732:ALA:HB2	1:X:722:ALA:HB1	1.92	0.50
1:X:725:GLU:OE2	1:X:729:ARG:NH1	2.43	0.50
1:a:88:MET:HB2	1:a:155:LYS:HG3	1.93	0.50
1:f:124:ARG:NH1	1:f:142:GLU:OE2	2.44	0.50
1:f:481:VAL:HG21	1:f:487:VAL:HB	1.93	0.50
1:h:523:PHE:CE1	1:h:545:TRP:NE1	2.79	0.50
1:j:88:MET:HB2	1:j:155:LYS:HG3	1.93	0.50
1:k:328:GLU:O	1:k:360:ARG:NH2	2.44	0.50
1:m:725:GLU:OE2	1:m:729:ARG:NH1	2.43	0.50
1:p:802:LEU:HD21	1:p:810:LEU:HD13	1.92	0.50
1:r:129:PHE:O	1:r:129:PHE:CG	2.64	0.50
1:r:717:GLU:HB2	1:s:707:LEU:HD13	1.94	0.50
1:x:417:LYS:O	1:x:452:ARG:NH2	2.42	0.50
1:y:276:LEU:O	1:y:305:GLU:HA	2.11	0.50
1:z:837:THR:OG1	1:5:839:VAL:CG2	2.58	0.50
1:0:794:LYS:NZ	1:0:851:LEU:HD21	2.27	0.50
1:3:124:ARG:NH1	1:3:142:GLU:OE2	2.44	0.50
1:6:551:ASP:N	1:6:551:ASP:OD1	2.43	0.50
1:9:717:GLU:HB2	1:AA:707:LEU:HD13	1.94	0.50
1:AC:88:MET:HB2	1:AC:155:LYS:HG3	1.92	0.50
1:AF:481:VAL:HG21	1:AF:487:VAL:HB	1.94	0.50
1:AJ:129:PHE:CD2	1:AJ:156:GLU:HB3	2.38	0.50
1:AO:128:ASP:HB3	1:AO:136:LYS:HZ1	1.75	0.50
1:A:423:VAL:HG13	1:A:514:LEU:HD11	1.91	0.50
1:J:755:THR:O	1:J:759:LEU:HB2	2.12	0.50
1:N:717:GLU:HB2	1:O:707:LEU:HD13	1.94	0.50
1:O:821:LEU:HD22	1:T:822:LEU:HD22	1.93	0.50
1:V:523:PHE:CE1	1:V:545:TRP:NE1	2.79	0.50
1:a:328:GLU:OE1	1:a:329:GLN:NE2	2.44	0.50
1:e:121:LEU:HB2	1:e:145:PHE:HB3	1.92	0.50
1:f:732:ALA:HB2	1:g:722:ALA:HB1	1.93	0.50
1:l:639:ASP:OD2	1:m:573:LYS:NZ	2.38	0.50
1:s:328:GLU:OE1	1:s:329:GLN:NE2	2.44	0.50
1:v:417:LYS:O	1:v:452:ARG:NH2	2.42	0.50
1:x:717:GLU:HB2	1:y:707:LEU:HD13	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:338:GLN:HE21	1:1:279:GLN:HE21	1.60	0.50
1:2:120:ALA:HB2	1:2:205:LEU:HD21	1.93	0.50
1:AB:755:THR:O	1:AB:759:LEU:HB2	2.12	0.50
1:AC:27:ARG:NH1	1:AC:29:GLU:OE2	2.43	0.50
1:AC:551:ASP:N	1:AC:551:ASP:OD1	2.43	0.50
1:AG:328:GLU:OE1	1:AG:329:GLN:NE2	2.44	0.50
1:AH:755:THR:O	1:AH:759:LEU:HB2	2.12	0.50
1:AH:795:PHE:HD1	1:AO:827:LEU:CD1	2.25	0.50
1:AI:551:ASP:N	1:AI:551:ASP:OD1	2.43	0.50
1:AI:794:LYS:NZ	1:AI:851:LEU:HD21	2.27	0.50
1:AL:481:VAL:HG21	1:AL:487:VAL:HB	1.93	0.50
1:AL:732:ALA:HB2	1:AM:722:ALA:HB1	1.93	0.50
1:AN:523:PHE:CE1	1:AN:545:TRP:NE1	2.79	0.50
1:AO:812:VAL:CG1	1:AP:814:GLY:HA2	2.42	0.50
1:A:40:ASN:HB3	1:E:40:ASN:HB3	1.94	0.50
1:B:481:VAL:HG21	1:B:487:VAL:HB	1.93	0.50
1:D:755:THR:O	1:D:759:LEU:HB2	2.12	0.50
1:E:827:LEU:CD1	1:AN:795:PHE:HD1	2.25	0.50
1:J:523:PHE:CE1	1:J:545:TRP:NE1	2.79	0.50
1:K:88:MET:HB2	1:K:155:LYS:HG3	1.92	0.50
1:N:129:PHE:O	1:N:129:PHE:CG	2.64	0.50
1:V:755:THR:O	1:V:759:LEU:HB2	2.12	0.50
1:W:531:THR:OG1	1:W:586:VAL:O	2.27	0.50
1:W:794:LYS:NZ	1:W:851:LEU:HD21	2.27	0.50
1:Z:481:VAL:HG21	1:Z:487:VAL:HB	1.93	0.50
1:g:639:ASP:OD2	1:k:573:LYS:NZ	2.31	0.50
1:o:812:VAL:CG1	1:p:814:GLY:HA2	2.42	0.50
1:r:121:LEU:HB2	1:r:145:PHE:HB3	1.91	0.50
1:s:802:LEU:HD21	1:s:810:LEU:HD13	1.92	0.50
1:t:523:PHE:CE1	1:t:545:TRP:NE1	2.79	0.50
1:u:338:GLN:HE21	1:v:279:GLN:HE21	1.60	0.50
1:x:88:MET:HB2	1:x:155:LYS:HG3	1.93	0.50
1:3:88:MET:HB2	1:3:155:LYS:HG3	1.94	0.50
1:6:794:LYS:NZ	1:6:851:LEU:HD21	2.27	0.50
1:AA:328:GLU:OE1	1:AA:329:GLN:NE2	2.44	0.50
1:AD:122:HIS:NE2	1:AD:142:GLU:OE1	2.44	0.50
1:AF:124:ARG:NH1	1:AF:142:GLU:OE2	2.44	0.50
1:AF:717:GLU:HB2	1:AG:707:LEU:HD13	1.94	0.50
1:AH:523:PHE:CE1	1:AH:545:TRP:NE1	2.79	0.50
1:AN:755:THR:O	1:AN:759:LEU:HB2	2.12	0.50
1:AO:182:PHE:HE2	1:AO:209:PHE:H	1.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:551:ASP:N	1:AO:551:ASP:OD1	2.43	0.50
1:B:717:GLU:HB2	1:C:707:LEU:HD13	1.94	0.50
1:E:518:LEU:HD11	1:E:561:LEU:HD21	1.94	0.50
1:H:717:GLU:HB2	1:I:707:LEU:HD13	1.94	0.50
1:O:328:GLU:OE1	1:O:329:GLN:NE2	2.44	0.50
1:Q:182:PHE:HE2	1:Q:209:PHE:H	1.59	0.50
1:T:732:ALA:HB2	1:U:722:ALA:HB1	1.93	0.50
1:W:95:ASP:N	1:W:95:ASP:OD1	2.42	0.50
1:W:812:VAL:CG1	1:X:814:GLY:HA2	2.42	0.50
1:c:88:MET:HB2	1:c:155:LYS:HG3	1.92	0.50
1:g:821:LEU:HD22	1:l:822:LEU:HD22	1.93	0.50
1:k:40:ASN:HB3	1:o:40:ASN:HB3	1.94	0.50
1:l:130:GLU:CB	1:l:136:LYS:HA	2.42	0.50
1:n:523:PHE:CE1	1:n:545:TRP:NE1	2.79	0.50
1:q:121:LEU:HB2	1:q:145:PHE:HB3	1.92	0.50
1:u:812:VAL:CG1	1:v:814:GLY:HA2	2.42	0.50
1:w:551:ASP:OD1	1:w:551:ASP:N	2.43	0.50
1:y:531:THR:OG1	1:y:586:VAL:O	2.27	0.50
1:0:328:GLU:O	1:0:360:ARG:NH2	2.44	0.50
1:5:755:THR:O	1:5:759:LEU:HB2	2.12	0.50
1:5:795:PHE:HD1	1:AC:827:LEU:CD1	2.25	0.50
1:6:95:ASP:OD1	1:6:95:ASP:N	2.42	0.50
1:AA:88:MET:HB2	1:AA:155:LYS:HG3	1.93	0.50
1:AA:95:ASP:OD1	1:AA:95:ASP:N	2.44	0.50
1:AI:812:VAL:CG1	1:AJ:814:GLY:HA2	2.42	0.50
1:AK:40:ASN:HB3	1:AO:40:ASN:HB3	1.94	0.50
1:AM:328:GLU:OE1	1:AM:329:GLN:NE2	2.44	0.50
1:C:328:GLU:OE1	1:C:329:GLN:NE2	2.44	0.50
1:D:795:PHE:HD1	1:K:827:LEU:CD1	2.25	0.50
1:E:182:PHE:HE2	1:E:209:PHE:H	1.59	0.50
1:F:88:MET:HB2	1:F:155:LYS:HG3	1.93	0.50
1:G:40:ASN:HB3	1:K:40:ASN:HB3	1.94	0.50
1:H:481:VAL:HG21	1:H:487:VAL:HB	1.94	0.50
1:H:732:ALA:HB2	1:I:722:ALA:HB1	1.93	0.50
1:K:182:PHE:HE2	1:K:209:PHE:H	1.59	0.50
1:R:122:HIS:NE2	1:R:142:GLU:OE1	2.44	0.50
1:T:219:VAL:HG11	1:T:227:LEU:HD13	1.94	0.50
1:T:481:VAL:HG21	1:T:487:VAL:HB	1.94	0.50
1:U:328:GLU:OE1	1:U:329:GLN:NE2	2.44	0.50
1:Y:40:ASN:HB3	1:c:40:ASN:HB3	1.94	0.50
1:b:417:LYS:O	1:b:452:ARG:NH2	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:40:ASN:HB3	1:i:40:ASN:HB3	1.94	0.50
1:s:95:ASP:OD1	1:s:95:ASP:N	2.44	0.50
1:u:794:LYS:NZ	1:u:851:LEU:HD21	2.27	0.50
1:y:124:ARG:NH1	1:y:142:GLU:OE2	2.45	0.50
1:0:518:LEU:HD11	1:0:561:LEU:HD21	1.94	0.50
1:7:88:MET:HB2	1:7:155:LYS:HG3	1.93	0.50
1:AI:182:PHE:HE2	1:AI:209:PHE:H	1.59	0.50
1:B:130:GLU:CB	1:B:136:LYS:HA	2.42	0.50
1:G:328:GLU:O	1:G:360:ARG:NH2	2.44	0.50
1:I:124:ARG:NH1	1:I:142:GLU:OE2	2.45	0.50
1:K:551:ASP:N	1:K:551:ASP:OD1	2.43	0.50
1:M:40:ASN:HB3	1:Q:40:ASN:HB3	1.94	0.50
1:N:481:VAL:HG21	1:N:487:VAL:HB	1.94	0.50
1:Q:518:LEU:HD11	1:Q:561:LEU:HD21	1.94	0.50
1:S:717:GLU:HB2	1:T:707:LEU:HD13	1.94	0.50
1:W:182:PHE:HE2	1:W:209:PHE:H	1.59	0.50
1:b:755:THR:O	1:b:759:LEU:HB2	2.12	0.50
1:b:774:ARG:NH1	1:i:779:LEU:HD11	2.27	0.50
1:c:794:LYS:NZ	1:c:851:LEU:HD21	2.27	0.50
1:e:328:GLU:O	1:e:360:ARG:NH2	2.43	0.50
1:g:88:MET:HB2	1:g:155:LYS:HG3	1.93	0.50
1:g:130:GLU:HG3	1:g:130:GLU:O	2.11	0.50
1:l:417:LYS:O	1:l:452:ARG:NH2	2.42	0.50
1:s:88:MET:HB2	1:s:155:LYS:HG3	1.93	0.50
1:x:639:ASP:OD2	1:y:573:LYS:NZ	2.38	0.50
1:y:88:MET:HB2	1:y:155:LYS:HG3	1.93	0.50
1:0:812:VAL:CG1	1:1:814:GLY:HA2	2.42	0.50
1:4:88:MET:HB2	1:4:155:LYS:HG3	1.93	0.50
1:6:518:LEU:HD11	1:6:561:LEU:HD21	1.94	0.50
1:9:88:MET:HB2	1:9:155:LYS:HG3	1.93	0.50
1:9:130:GLU:CB	1:9:136:LYS:HA	2.42	0.50
1:AF:130:GLU:CB	1:AF:136:LYS:HA	2.42	0.50
1:AI:518:LEU:HD11	1:AI:561:LEU:HD21	1.94	0.50
1:AL:130:GLU:CB	1:AL:136:LYS:HA	2.42	0.50
1:AL:717:GLU:HB2	1:AM:707:LEU:HD13	1.94	0.50
1:A:17:HIS:NE2	1:A:99:LEU:O	2.36	0.49
1:N:130:GLU:CB	1:N:136:LYS:HA	2.42	0.49
1:Q:794:LYS:NZ	1:Q:851:LEU:HD21	2.27	0.49
1:R:417:LYS:O	1:R:452:ARG:NH2	2.42	0.49
1:S:40:ASN:HB3	1:W:40:ASN:HB3	1.94	0.49
1:T:88:MET:HB2	1:T:155:LYS:HG3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:130:GLU:CB	1:T:136:LYS:HA	2.42	0.49
1:W:88:MET:HB2	1:W:155:LYS:HG3	1.92	0.49
1:W:794:LYS:HZ1	1:W:851:LEU:HD21	1.76	0.49
1:Z:130:GLU:CB	1:Z:136:LYS:HA	2.42	0.49
1:Z:219:VAL:HG11	1:Z:227:LEU:HD13	1.94	0.49
1:g:328:GLU:OE1	1:g:329:GLN:NE2	2.44	0.49
1:h:732:ALA:HB2	1:j:722:ALA:HB1	1.92	0.49
1:i:812:VAL:CG1	1:j:814:GLY:HA2	2.42	0.49
1:o:338:GLN:HE21	1:p:279:GLN:HE21	1.60	0.49
1:u:518:LEU:HD11	1:u:561:LEU:HD21	1.94	0.49
1:v:122:HIS:NE2	1:v:142:GLU:OE1	2.44	0.49
1:w:328:GLU:O	1:w:360:ARG:NH2	2.44	0.49
1:2:717:GLU:HB2	1:3:707:LEU:HD13	1.94	0.49
1:5:639:ASP:OD2	1:7:573:LYS:NZ	2.40	0.49
1:8:717:GLU:HB2	1:9:707:LEU:HD13	1.94	0.49
1:9:417:LYS:O	1:9:452:ARG:NH2	2.42	0.49
1:AC:518:LEU:HD11	1:AC:561:LEU:HD21	1.94	0.49
1:AE:40:ASN:HB3	1:AI:40:ASN:HB3	1.94	0.49
1:AI:122:HIS:NE2	1:AI:142:GLU:OE1	2.44	0.49
1:AO:328:GLU:O	1:AO:360:ARG:NH2	2.44	0.49
1:AP:88:MET:HB2	1:AP:155:LYS:HG3	1.93	0.49
1:A:377:ARG:NH1	1:A:408:LEU:O	2.45	0.49
1:D:417:LYS:O	1:D:452:ARG:NH2	2.43	0.49
1:H:130:GLU:CB	1:H:136:LYS:HA	2.42	0.49
1:I:821:LEU:HD22	1:N:822:LEU:HD22	1.93	0.49
1:K:794:LYS:NZ	1:K:851:LEU:HD21	2.27	0.49
1:L:88:MET:HB2	1:L:155:LYS:HG3	1.93	0.49
1:L:417:LYS:O	1:L:452:ARG:NH2	2.42	0.49
1:M:717:GLU:HB2	1:N:707:LEU:HD13	1.94	0.49
1:N:732:ALA:HB2	1:O:722:ALA:HB1	1.93	0.49
1:O:124:ARG:NH1	1:O:142:GLU:OE2	2.45	0.49
1:S:595:SER:O	1:S:599:ILE:CG1	2.55	0.49
1:V:774:ARG:NH1	1:c:779:LEU:HD11	2.27	0.49
1:d:88:MET:HB2	1:d:155:LYS:HG3	1.93	0.49
1:e:717:GLU:HB2	1:f:707:LEU:HD13	1.94	0.49
1:f:130:GLU:CB	1:f:136:LYS:HA	2.42	0.49
1:g:124:ARG:NH1	1:g:142:GLU:OE2	2.45	0.49
1:j:127:LEU:HB2	1:j:156:GLU:HB3	1.94	0.49
1:l:88:MET:HB2	1:l:155:LYS:HG3	1.94	0.49
1:o:518:LEU:HD11	1:o:561:LEU:HD21	1.94	0.49
1:q:40:ASN:HB3	1:u:40:ASN:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:88:MET:HB2	1:r:155:LYS:HG3	1.93	0.49
1:r:639:ASP:OD2	1:s:573:LYS:NZ	2.38	0.49
1:t:795:PHE:HD1	1:0:827:LEU:CD1	2.25	0.49
1:u:328:GLU:O	1:u:360:ARG:NH2	2.44	0.49
1:w:120:ALA:HB2	1:w:205:LEU:HD21	1.93	0.49
1:w:377:ARG:NH1	1:w:408:LEU:O	2.46	0.49
1:y:130:GLU:HG3	1:y:130:GLU:O	2.11	0.49
1:6:338:GLN:HE21	1:7:279:GLN:HE21	1.60	0.49
1:AA:33:LYS:HE3	1:AA:35:TYR:HD1	1.78	0.49
1:AB:795:PHE:HD1	1:AI:827:LEU:CD1	2.25	0.49
1:AE:717:GLU:HB2	1:AF:707:LEU:HD13	1.94	0.49
1:AF:120:ALA:HB2	1:AF:205:LEU:HD21	1.95	0.49
1:AH:839:VAL:HG13	1:AN:841:LEU:HD12	1.94	0.49
1:AK:717:GLU:HB2	1:AL:707:LEU:HD13	1.94	0.49
1:AL:120:ALA:HB2	1:AL:205:LEU:HD21	1.94	0.49
1:AO:518:LEU:HD11	1:AO:561:LEU:HD21	1.94	0.49
1:B:732:ALA:HB2	1:C:722:ALA:HB1	1.93	0.49
1:D:648:GLN:OE1	1:D:651:ARG:NH1	2.46	0.49
1:G:377:ARG:NH1	1:G:408:LEU:O	2.46	0.49
1:G:717:GLU:HB2	1:H:707:LEU:HD13	1.94	0.49
1:M:595:SER:O	1:M:599:ILE:CG1	2.55	0.49
1:Q:88:MET:HB2	1:Q:155:LYS:HG3	1.92	0.49
1:Q:794:LYS:HZ1	1:Q:851:LEU:HD21	1.76	0.49
1:R:725:GLU:OE2	1:R:729:ARG:NH1	2.43	0.49
1:X:127:LEU:HB2	1:X:156:GLU:HB3	1.94	0.49
1:Z:732:ALA:HB2	1:a:722:ALA:HB1	1.93	0.49
1:a:124:ARG:NH1	1:a:142:GLU:OE2	2.45	0.49
1:c:812:VAL:CG1	1:d:814:GLY:HA2	2.42	0.49
1:d:127:LEU:HB2	1:d:156:GLU:HB3	1.94	0.49
1:f:179:ARG:HB2	1:f:209:PHE:HB3	1.94	0.49
1:k:128:ASP:HB3	1:k:136:LYS:HZ1	1.76	0.49
1:k:717:GLU:HB2	1:l:707:LEU:HD13	1.94	0.49
1:l:179:ARG:HB2	1:l:209:PHE:HB3	1.94	0.49
1:r:130:GLU:CB	1:r:136:LYS:HA	2.42	0.49
1:r:179:ARG:HB2	1:r:209:PHE:HB3	1.94	0.49
1:s:124:ARG:NH1	1:s:142:GLU:OE2	2.45	0.49
1:x:179:ARG:HB2	1:x:209:PHE:HB3	1.94	0.49
1:y:12:PRO:HB3	1:y:32:PRO:HB3	1.94	0.49
1:z:639:ASP:OD2	1:1:573:LYS:NZ	2.40	0.49
1:z:755:THR:O	1:z:759:LEU:HB2	2.12	0.49
1:3:130:GLU:CB	1:3:136:LYS:HA	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:33:LYS:HE3	1:4:35:TYR:HD1	1.78	0.49
1:6:328:GLU:O	1:6:360:ARG:NH2	2.44	0.49
1:9:27:ARG:NH1	1:9:29:GLU:OE2	2.46	0.49
1:9:124:ARG:NH1	1:9:142:GLU:OE2	2.44	0.49
1:9:626:ALA:HB3	1:9:635:VAL:HB	1.94	0.49
1:AA:821:LEU:HD22	1:AF:822:LEU:HD22	1.93	0.49
1:AC:812:VAL:CG1	1:AD:814:GLY:HA2	2.42	0.49
1:AF:626:ALA:HB3	1:AF:635:VAL:HB	1.94	0.49
1:AG:33:LYS:HE3	1:AG:35:TYR:HD1	1.78	0.49
1:AH:417:LYS:O	1:AH:452:ARG:NH2	2.43	0.49
1:B:27:ARG:NH1	1:B:29:GLU:OE2	2.45	0.49
1:D:774:ARG:NH1	1:K:779:LEU:HD11	2.27	0.49
1:I:33:LYS:HE3	1:I:35:TYR:HD1	1.78	0.49
1:I:328:GLU:OE1	1:I:329:GLN:NE2	2.44	0.49
1:K:518:LEU:HD11	1:K:561:LEU:HD21	1.94	0.49
1:M:120:ALA:HB2	1:M:205:LEU:HD21	1.93	0.49
1:N:88:MET:HB2	1:N:155:LYS:HG3	1.94	0.49
1:N:219:VAL:HG11	1:N:227:LEU:HD13	1.94	0.49
1:R:127:LEU:HB2	1:R:156:GLU:HB3	1.94	0.49
1:Z:27:ARG:NH1	1:Z:29:GLU:OE2	2.46	0.49
1:Z:179:ARG:HB2	1:Z:209:PHE:HB3	1.94	0.49
1:Z:417:LYS:O	1:Z:452:ARG:NH2	2.42	0.49
1:a:130:GLU:HG3	1:a:130:GLU:O	2.11	0.49
1:b:795:PHE:HD1	1:i:827:LEU:CD1	2.25	0.49
1:b:839:VAL:HG13	1:h:841:LEU:HD12	1.95	0.49
1:c:518:LEU:HD11	1:c:561:LEU:HD21	1.94	0.49
1:h:755:THR:O	1:h:759:LEU:HB2	2.12	0.49
1:k:120:ALA:HB2	1:k:205:LEU:HD21	1.93	0.49
1:m:124:ARG:NH1	1:m:142:GLU:OE2	2.45	0.49
1:n:20:ASP:HA	1:n:41:GLU:HA	1.95	0.49
1:v:27:ARG:NH1	1:v:29:GLU:OE2	2.46	0.49
1:x:27:ARG:NH1	1:x:29:GLU:OE2	2.45	0.49
1:z:839:VAL:HG13	1:5:841:LEU:HD12	1.95	0.49
1:1:27:ARG:NH1	1:1:29:GLU:OE2	2.46	0.49
1:3:626:ALA:HB3	1:3:635:VAL:HB	1.94	0.49
1:4:124:ARG:NH1	1:4:142:GLU:OE2	2.45	0.49
1:4:821:LEU:HD22	1:9:822:LEU:HD22	1.93	0.49
1:9:170:PRO:HG2	1:AA:233:ARG:HD3	1.94	0.49
1:AB:839:VAL:HG13	1:AH:841:LEU:HD12	1.95	0.49
1:AF:170:PRO:HG2	1:AG:233:ARG:HD3	1.94	0.49
1:AG:124:ARG:NH1	1:AG:142:GLU:OE2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:821:LEU:HD22	1:AL:822:LEU:HD22	1.93	0.49
1:AH:648:GLN:OE1	1:AH:651:ARG:NH1	2.46	0.49
1:AL:626:ALA:HB3	1:AL:635:VAL:HB	1.94	0.49
1:A:717:GLU:HB2	1:B:707:LEU:HD13	1.94	0.49
1:B:88:MET:HB2	1:B:155:LYS:HG3	1.93	0.49
1:C:124:ARG:NH1	1:C:142:GLU:OE2	2.45	0.49
1:H:120:ALA:HB2	1:H:205:LEU:HD21	1.94	0.49
1:P:648:GLN:OE1	1:P:651:ARG:NH1	2.46	0.49
1:R:27:ARG:NH1	1:R:29:GLU:OE2	2.46	0.49
1:S:120:ALA:HB2	1:S:205:LEU:HD21	1.93	0.49
1:T:27:ARG:NH1	1:T:29:GLU:OE2	2.45	0.49
1:Y:377:ARG:NH1	1:Y:408:LEU:O	2.45	0.49
1:Y:717:GLU:HB2	1:Z:707:LEU:HD13	1.94	0.49
1:e:595:SER:O	1:e:599:ILE:CG1	2.55	0.49
1:f:88:MET:HB2	1:f:155:LYS:HG3	1.93	0.49
1:h:20:ASP:HA	1:h:41:GLU:HA	1.95	0.49
1:h:648:GLN:OE1	1:h:651:ARG:NH1	2.46	0.49
1:h:774:ARG:NH1	1:o:779:LEU:HD11	2.27	0.49
1:h:839:VAL:HG13	1:n:841:LEU:HD12	1.95	0.49
1:l:27:ARG:NH1	1:l:29:GLU:OE2	2.45	0.49
1:m:821:LEU:HD22	1:r:822:LEU:HD22	1.93	0.49
1:n:839:VAL:HG13	1:t:841:LEU:HD12	1.95	0.49
1:r:417:LYS:O	1:r:452:ARG:NH2	2.42	0.49
1:s:725:GLU:OE2	1:s:729:ARG:NH1	2.43	0.49
1:t:648:GLN:OE1	1:t:651:ARG:NH1	2.46	0.49
1:w:717:GLU:HB2	1:x:707:LEU:HD13	1.94	0.49
1:y:33:LYS:HE3	1:y:35:TYR:HD1	1.78	0.49
1:z:795:PHE:HD1	1:6:827:LEU:CD1	2.25	0.49
1:2:95:ASP:N	1:2:95:ASP:OD1	2.45	0.49
1:3:170:PRO:HG2	1:4:233:ARG:HD3	1.94	0.49
1:3:179:ARG:HB2	1:3:209:PHE:HB3	1.94	0.49
1:5:839:VAL:HG13	1:AB:841:LEU:HD12	1.95	0.49
1:6:812:VAL:CG1	1:7:814:GLY:HA2	2.42	0.49
1:8:95:ASP:OD1	1:8:95:ASP:N	2.45	0.49
1:9:120:ALA:HB2	1:9:205:LEU:HD21	1.95	0.49
1:AC:182:PHE:HE2	1:AC:209:PHE:H	1.59	0.49
1:AD:88:MET:HB2	1:AD:155:LYS:HG3	1.93	0.49
1:AK:377:ARG:NH1	1:AK:408:LEU:O	2.45	0.49
1:AL:27:ARG:NH1	1:AL:29:GLU:OE2	2.45	0.49
1:AM:33:LYS:HE3	1:AM:35:TYR:HD1	1.78	0.49
1:AP:417:LYS:O	1:AP:452:ARG:NH2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:120:ALA:HB2	1:B:205:LEU:HD21	1.94	0.49
1:B:626:ALA:HB3	1:B:635:VAL:HB	1.94	0.49
1:C:33:LYS:HE3	1:C:35:TYR:HD1	1.78	0.49
1:E:779:LEU:HD11	1:AN:774:ARG:NH1	2.27	0.49
1:I:12:PRO:HB3	1:I:32:PRO:HB3	1.94	0.49
1:K:328:GLU:O	1:K:360:ARG:NH2	2.44	0.49
1:U:124:ARG:NH1	1:U:142:GLU:OE2	2.45	0.49
1:W:518:LEU:HD11	1:W:561:LEU:HD21	1.94	0.49
1:Y:595:SER:O	1:Y:599:ILE:CG1	2.55	0.49
1:c:182:PHE:HE2	1:c:209:PHE:H	1.59	0.49
1:e:120:ALA:HB2	1:e:205:LEU:HD21	1.93	0.49
1:e:377:ARG:NH1	1:e:408:LEU:O	2.45	0.49
1:g:95:ASP:N	1:g:95:ASP:OD1	2.44	0.49
1:h:795:PHE:HD1	1:o:827:LEU:CD1	2.25	0.49
1:j:27:ARG:NH1	1:j:29:GLU:OE2	2.46	0.49
1:k:377:ARG:NH1	1:k:408:LEU:O	2.45	0.49
1:m:88:MET:HB2	1:m:155:LYS:HG3	1.93	0.49
1:n:795:PHE:HD1	1:u:827:LEU:CD1	2.25	0.49
1:o:417:LYS:O	1:o:452:ARG:NH2	2.42	0.49
1:p:27:ARG:NH1	1:p:29:GLU:OE2	2.46	0.49
1:p:127:LEU:HB2	1:p:156:GLU:HB3	1.94	0.49
1:q:120:ALA:HB2	1:q:205:LEU:HD21	1.93	0.49
1:q:377:ARG:NH1	1:q:408:LEU:O	2.46	0.49
1:q:717:GLU:HB2	1:r:707:LEU:HD13	1.94	0.49
1:r:170:PRO:HG2	1:s:233:ARG:HD3	1.94	0.49
1:s:12:PRO:HB3	1:s:32:PRO:HB3	1.94	0.49
1:t:839:VAL:HG13	1:z:841:LEU:HD12	1.95	0.49
1:u:182:PHE:HE2	1:u:209:PHE:H	1.59	0.49
1:x:170:PRO:HG2	1:y:233:ARG:HD3	1.94	0.49
1:8:40:ASN:HB3	1:AC:40:ASN:HB3	1.94	0.49
1:AC:794:LYS:NZ	1:AC:851:LEU:HD21	2.27	0.49
1:AJ:88:MET:HB2	1:AJ:155:LYS:HG3	1.93	0.49
1:AK:128:ASP:HB3	1:AK:136:LYS:HZ1	1.78	0.49
1:AL:88:MET:HB2	1:AL:155:LYS:HG3	1.93	0.49
1:AL:170:PRO:HG2	1:AM:233:ARG:HD3	1.94	0.49
1:AN:130:GLU:OE1	1:AN:134:GLY:O	2.31	0.49
1:D:841:LEU:HD12	1:AN:839:VAL:HG13	1.95	0.49
1:F:124:ARG:NH1	1:F:142:GLU:OE2	2.46	0.49
1:H:639:ASP:OD2	1:I:573:LYS:NZ	2.38	0.49
1:P:130:GLU:HG3	1:P:136:LYS:HA	1.95	0.49
1:P:130:GLU:OE1	1:P:134:GLY:O	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:128:ASP:HB3	1:Q:136:LYS:HZ1	1.78	0.49
1:R:60:VAL:HA	1:R:89:GLU:O	2.13	0.49
1:R:124:ARG:NH1	1:R:142:GLU:OE2	2.46	0.49
1:T:179:ARG:HB2	1:T:209:PHE:HB3	1.94	0.49
1:a:95:ASP:OD1	1:a:95:ASP:N	2.44	0.49
1:b:177:ARG:HB2	1:b:213:LEU:HD11	1.95	0.49
1:f:219:VAL:HG11	1:f:227:LEU:HD13	1.94	0.49
1:i:518:LEU:HD11	1:i:561:LEU:HD21	1.94	0.49
1:i:794:LYS:NZ	1:i:851:LEU:HD21	2.27	0.49
1:m:12:PRO:HB3	1:m:32:PRO:HB3	1.94	0.49
1:o:182:PHE:HE2	1:o:209:PHE:H	1.59	0.49
1:x:626:ALA:HB3	1:x:635:VAL:HB	1.94	0.49
1:z:177:ARG:HB2	1:z:213:LEU:HD11	1.95	0.49
1:2:377:ARG:NH1	1:2:408:LEU:O	2.46	0.49
1:7:27:ARG:NH1	1:7:29:GLU:OE2	2.46	0.49
1:9:179:ARG:HB2	1:9:209:PHE:HB3	1.94	0.49
1:AC:531:THR:OG1	1:AC:586:VAL:O	2.27	0.49
1:AE:377:ARG:NH1	1:AE:408:LEU:O	2.45	0.49
1:AF:27:ARG:NH1	1:AF:29:GLU:OE2	2.46	0.49
1:AI:128:ASP:HB3	1:AI:136:LYS:HZ1	1.78	0.49
1:D:839:VAL:HG13	1:J:841:LEU:HD12	1.95	0.49
1:F:46:ASP:N	1:F:46:ASP:OD1	2.46	0.49
1:H:626:ALA:HB3	1:H:635:VAL:HB	1.94	0.49
1:I:417:LYS:O	1:I:452:ARG:NH2	2.42	0.49
1:J:130:GLU:HG3	1:J:136:LYS:HA	1.95	0.49
1:L:27:ARG:NH1	1:L:29:GLU:OE2	2.46	0.49
1:M:377:ARG:NH1	1:M:408:LEU:O	2.45	0.49
1:N:120:ALA:HB2	1:N:205:LEU:HD21	1.95	0.49
1:O:12:PRO:HB3	1:O:32:PRO:HB3	1.94	0.49
1:P:839:VAL:HG13	1:V:841:LEU:HD12	1.95	0.49
1:V:130:GLU:HG3	1:V:136:LYS:HA	1.95	0.49
1:V:795:PHE:HD1	1:c:827:LEU:CD1	2.25	0.49
1:X:88:MET:HB2	1:X:155:LYS:HG3	1.93	0.49
1:X:417:LYS:O	1:X:452:ARG:NH2	2.42	0.49
1:X:522:PHE:HA	1:X:543:TYR:O	2.13	0.49
1:Z:626:ALA:HB3	1:Z:635:VAL:HB	1.94	0.49
1:b:648:GLN:OE1	1:b:651:ARG:NH1	2.46	0.49
1:d:124:ARG:NH1	1:d:142:GLU:OE2	2.46	0.49
1:f:626:ALA:HB3	1:f:635:VAL:HB	1.94	0.49
1:h:177:ARG:HB2	1:h:213:LEU:HD11	1.95	0.49
1:j:417:LYS:O	1:j:452:ARG:NH2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:95:ASP:N	1:m:95:ASP:OD1	2.44	0.49
1:o:794:LYS:NZ	1:o:851:LEU:HD21	2.27	0.49
1:p:17:HIS:NE2	1:p:99:LEU:O	2.38	0.49
1:p:95:ASP:N	1:p:95:ASP:OD1	2.41	0.49
1:r:27:ARG:NH1	1:r:29:GLU:OE2	2.46	0.49
1:v:124:ARG:NH1	1:v:142:GLU:OE2	2.46	0.49
1:v:127:LEU:HB2	1:v:156:GLU:HB3	1.94	0.49
1:0:122:HIS:NE2	1:0:142:GLU:OE1	2.44	0.49
1:8:377:ARG:NH1	1:8:408:LEU:O	2.46	0.49
1:AD:60:VAL:HA	1:AD:89:GLU:O	2.13	0.49
1:AF:88:MET:HB2	1:AF:155:LYS:HG3	1.94	0.49
1:A:468:VAL:HG22	1:A:481:VAL:HG22	1.95	0.49
1:B:177:ARG:HB2	1:B:213:LEU:HD11	1.95	0.49
1:B:822:LEU:HD22	1:AM:821:LEU:HD22	1.93	0.49
1:D:130:GLU:OE1	1:D:134:GLY:O	2.31	0.49
1:E:417:LYS:O	1:E:452:ARG:NH2	2.42	0.49
1:F:27:ARG:NH1	1:F:29:GLU:OE2	2.46	0.49
1:F:60:VAL:HA	1:F:89:GLU:O	2.13	0.49
1:L:124:ARG:NH1	1:L:142:GLU:OE2	2.46	0.49
1:L:522:PHE:HA	1:L:543:TYR:O	2.13	0.49
1:N:27:ARG:NH1	1:N:29:GLU:OE2	2.45	0.49
1:O:33:LYS:HE3	1:O:35:TYR:HD1	1.78	0.49
1:Q:338:GLN:HE21	1:R:279:GLN:HE21	1.60	0.49
1:T:626:ALA:HB3	1:T:635:VAL:HB	1.94	0.49
1:V:130:GLU:OE1	1:V:134:GLY:O	2.31	0.49
1:V:177:ARG:HB2	1:V:213:LEU:HD11	1.95	0.49
1:V:839:VAL:HG13	1:b:841:LEU:HD12	1.95	0.49
1:W:551:ASP:OD1	1:W:551:ASP:N	2.43	0.49
1:i:338:GLN:HE21	1:j:279:GLN:HE21	1.60	0.49
1:k:551:ASP:N	1:k:551:ASP:OD1	2.42	0.49
1:l:170:PRO:HG2	1:m:233:ARG:HD3	1.94	0.49
1:n:177:ARG:HB2	1:n:213:LEU:HD11	1.95	0.49
1:r:27:ARG:NH2	1:r:41:GLU:OE2	2.46	0.49
1:t:20:ASP:HA	1:t:41:GLU:HA	1.95	0.49
1:x:130:GLU:CB	1:x:136:LYS:HA	2.42	0.49
1:z:648:GLN:OE1	1:z:651:ARG:NH1	2.46	0.49
1:z:774:ARG:NH1	1:6:779:LEU:HD11	2.27	0.49
1:1:124:ARG:NH1	1:1:142:GLU:OE2	2.46	0.49
1:1:522:PHE:HA	1:1:543:TYR:O	2.13	0.49
1:3:120:ALA:HB2	1:3:205:LEU:HD21	1.94	0.49
1:4:122:HIS:NE2	1:4:142:GLU:OE1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:177:ARG:HB2	1:5:213:LEU:HD11	1.95	0.49
1:AA:12:PRO:HB3	1:AA:32:PRO:HB3	1.94	0.49
1:AD:127:LEU:HB2	1:AD:156:GLU:HB3	1.94	0.49
1:AI:328:GLU:O	1:AI:360:ARG:NH2	2.44	0.49
1:AJ:127:LEU:HB2	1:AJ:156:GLU:HB3	1.94	0.49
1:AK:468:VAL:HG22	1:AK:481:VAL:HG22	1.94	0.49
1:AP:60:VAL:HA	1:AP:89:GLU:O	2.13	0.49
1:C:12:PRO:HB3	1:C:32:PRO:HB3	1.94	0.49
1:H:177:ARG:HB2	1:H:213:LEU:HD11	1.95	0.49
1:J:648:GLN:OE1	1:J:651:ARG:NH1	2.46	0.49
1:J:795:PHE:HD1	1:Q:827:LEU:CD1	2.25	0.49
1:K:338:GLN:HE21	1:L:279:GLN:HE21	1.60	0.49
1:N:626:ALA:HB3	1:N:635:VAL:HB	1.94	0.49
1:Q:551:ASP:N	1:Q:551:ASP:OD1	2.43	0.49
1:R:88:MET:HB2	1:R:155:LYS:HG3	1.93	0.49
1:Z:27:ARG:NH2	1:Z:41:GLU:OE2	2.46	0.49
1:Z:177:ARG:HB2	1:Z:213:LEU:HD11	1.95	0.49
1:c:350:SER:O	1:c:350:SER:OG	2.31	0.49
1:d:27:ARG:NH1	1:d:29:GLU:OE2	2.46	0.49
1:e:468:VAL:HG22	1:e:481:VAL:HG22	1.95	0.49
1:f:27:ARG:NH2	1:f:41:GLU:OE2	2.46	0.49
1:f:177:ARG:HB2	1:f:213:LEU:HD11	1.95	0.49
1:k:468:VAL:HG22	1:k:481:VAL:HG22	1.95	0.49
1:l:27:ARG:NH2	1:l:41:GLU:OE2	2.46	0.49
1:p:522:PHE:HA	1:p:543:TYR:O	2.13	0.49
1:s:33:LYS:HE3	1:s:35:TYR:HD1	1.78	0.49
1:s:417:LYS:O	1:s:452:ARG:NH2	2.42	0.49
1:t:177:ARG:HB2	1:t:213:LEU:HD11	1.95	0.49
1:t:774:ARG:NH1	1:0:779:LEU:HD11	2.27	0.49
1:v:46:ASP:OD1	1:v:46:ASP:N	2.46	0.49
1:w:95:ASP:OD1	1:w:95:ASP:N	2.45	0.49
1:x:27:ARG:NH2	1:x:41:GLU:OE2	2.46	0.49
1:x:120:ALA:HB2	1:x:205:LEU:HD21	1.94	0.49
1:5:648:GLN:OE1	1:5:651:ARG:NH1	2.46	0.49
1:7:124:ARG:NH1	1:7:142:GLU:OE2	2.46	0.49
1:AF:503:GLY:O	1:AF:506:LYS:NZ	2.46	0.49
1:AG:95:ASP:OD1	1:AG:95:ASP:N	2.44	0.49
1:B:170:PRO:HG2	1:C:233:ARG:HD3	1.94	0.48
1:F:522:PHE:HA	1:F:543:TYR:O	2.13	0.48
1:G:468:VAL:HG22	1:G:481:VAL:HG22	1.95	0.48
1:H:27:ARG:NH1	1:H:29:GLU:OE2	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:20:ASP:HA	1:J:41:GLU:HA	1.95	0.48
1:J:774:ARG:NH1	1:Q:779:LEU:HD11	2.28	0.48
1:L:127:LEU:HB2	1:L:156:GLU:HB3	1.94	0.48
1:M:411:ASP:OD1	1:M:411:ASP:N	2.43	0.48
1:N:177:ARG:HB2	1:N:213:LEU:HD11	1.95	0.48
1:P:774:ARG:NH1	1:W:779:LEU:HD11	2.28	0.48
1:P:795:PHE:HD1	1:W:827:LEU:CD1	2.25	0.48
1:S:377:ARG:NH1	1:S:408:LEU:O	2.46	0.48
1:T:177:ARG:HB2	1:T:213:LEU:HD11	1.95	0.48
1:T:503:GLY:O	1:T:506:LYS:NZ	2.46	0.48
1:X:27:ARG:NH1	1:X:29:GLU:OE2	2.46	0.48
1:Z:88:MET:HB2	1:Z:155:LYS:HG3	1.94	0.48
1:b:20:ASP:HA	1:b:41:GLU:HA	1.95	0.48
1:g:12:PRO:HB3	1:g:32:PRO:HB3	1.94	0.48
1:n:755:THR:O	1:n:759:LEU:HB2	2.12	0.48
1:n:774:ARG:NH1	1:u:779:LEU:HD11	2.27	0.48
1:r:626:ALA:HB3	1:r:635:VAL:HB	1.94	0.48
1:w:40:ASN:HB3	1:0:40:ASN:HB3	1.94	0.48
1:y:821:LEU:HD22	1:3:822:LEU:HD22	1.93	0.48
1:0:182:PHE:HE2	1:0:209:PHE:H	1.59	0.48
1:AC:17:HIS:NE2	1:AC:99:LEU:O	2.35	0.48
1:AC:338:GLN:HE21	1:AD:279:GLN:HE21	1.60	0.48
1:AD:124:ARG:NH1	1:AD:142:GLU:OE2	2.46	0.48
1:AE:95:ASP:N	1:AE:95:ASP:OD1	2.45	0.48
1:AF:531:THR:OG1	1:AF:532:ALA:N	2.46	0.48
1:AJ:522:PHE:HA	1:AJ:543:TYR:O	2.13	0.48
1:AL:27:ARG:NH2	1:AL:41:GLU:OE2	2.46	0.48
1:AL:177:ARG:HB2	1:AL:213:LEU:HD11	1.95	0.48
1:AM:124:ARG:NH1	1:AM:142:GLU:OE2	2.45	0.48
1:AP:122:HIS:NE2	1:AP:142:GLU:OE1	2.44	0.48
1:A:411:ASP:OD1	1:A:411:ASP:N	2.43	0.48
1:B:503:GLY:O	1:B:506:LYS:NZ	2.46	0.48
1:B:794:LYS:HE2	1:B:798:MET:HE3	1.95	0.48
1:C:95:ASP:OD1	1:C:95:ASP:N	2.44	0.48
1:C:382:LEU:HD13	1:C:387:GLY:HA2	1.96	0.48
1:J:839:VAL:HG13	1:P:841:LEU:HD12	1.95	0.48
1:N:179:ARG:HB2	1:N:209:PHE:HB3	1.94	0.48
1:P:417:LYS:O	1:P:452:ARG:NH2	2.43	0.48
1:W:338:GLN:HE21	1:X:279:GLN:HE21	1.60	0.48
1:X:124:ARG:NH1	1:X:142:GLU:OE2	2.46	0.48
1:Y:120:ALA:HB2	1:Y:205:LEU:HD21	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:468:VAL:HG22	1:Y:481:VAL:HG22	1.95	0.48
1:a:122:HIS:NE2	1:a:142:GLU:OE1	2.45	0.48
1:b:130:GLU:HG3	1:b:136:LYS:HA	1.95	0.48
1:d:522:PHE:HA	1:d:543:TYR:O	2.13	0.48
1:f:170:PRO:HG2	1:g:233:ARG:HD3	1.94	0.48
1:j:124:ARG:NH1	1:j:142:GLU:OE2	2.46	0.48
1:l:177:ARG:HB2	1:l:213:LEU:HD11	1.95	0.48
1:l:626:ALA:HB3	1:l:635:VAL:HB	1.94	0.48
1:o:328:GLU:O	1:o:360:ARG:NH2	2.44	0.48
1:t:755:THR:O	1:t:759:LEU:HB2	2.12	0.48
1:z:53:VAL:HG12	1:z:109:ILE:HG23	1.96	0.48
1:0:551:ASP:N	1:0:551:ASP:OD1	2.43	0.48
1:2:417:LYS:O	1:2:452:ARG:NH2	2.42	0.48
1:3:27:ARG:NH2	1:3:41:GLU:OE2	2.46	0.48
1:4:12:PRO:HB3	1:4:32:PRO:HB3	1.94	0.48
1:5:130:GLU:OE1	1:5:134:GLY:O	2.31	0.48
1:6:182:PHE:HE2	1:6:209:PHE:H	1.59	0.48
1:AB:177:ARG:HB2	1:AB:213:LEU:HD11	1.95	0.48
1:AD:27:ARG:NH1	1:AD:29:GLU:OE2	2.46	0.48
1:AE:328:GLU:O	1:AE:360:ARG:NH2	2.44	0.48
1:AJ:46:ASP:N	1:AJ:46:ASP:OD1	2.46	0.48
1:AK:328:GLU:O	1:AK:360:ARG:NH2	2.43	0.48
1:AM:95:ASP:N	1:AM:95:ASP:OD1	2.44	0.48
1:AN:130:GLU:HG3	1:AN:136:LYS:HA	1.95	0.48
1:AP:27:ARG:NH1	1:AP:29:GLU:OE2	2.46	0.48
1:D:130:GLU:HG3	1:D:136:LYS:HA	1.95	0.48
1:D:179:ARG:HB2	1:D:209:PHE:HB3	1.95	0.48
1:H:794:LYS:HE2	1:H:798:MET:HE3	1.95	0.48
1:P:177:ARG:HB2	1:P:213:LEU:HD11	1.95	0.48
1:R:46:ASP:OD1	1:R:46:ASP:N	2.46	0.48
1:T:27:ARG:NH2	1:T:41:GLU:OE2	2.46	0.48
1:g:33:LYS:HE3	1:g:35:TYR:HD1	1.78	0.48
1:h:130:GLU:HG3	1:h:136:LYS:HA	1.95	0.48
1:m:33:LYS:HE3	1:m:35:TYR:HD1	1.78	0.48
1:o:812:VAL:HG12	1:p:814:GLY:HA2	1.95	0.48
1:s:821:LEU:HD22	1:x:822:LEU:HD22	1.93	0.48
1:t:53:VAL:HG12	1:t:109:ILE:HG23	1.96	0.48
1:3:27:ARG:NH1	1:3:29:GLU:OE2	2.46	0.48
1:5:417:LYS:O	1:5:452:ARG:NH2	2.42	0.48
1:5:774:ARG:NH1	1:AC:779:LEU:HD11	2.27	0.48
1:7:127:LEU:HB2	1:7:156:GLU:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:531:THR:OG1	1:9:532:ALA:N	2.46	0.48
1:AA:124:ARG:NH1	1:AA:142:GLU:OE2	2.45	0.48
1:AB:130:GLU:OE1	1:AB:134:GLY:O	2.31	0.48
1:AH:130:GLU:OE1	1:AH:134:GLY:O	2.31	0.48
1:A:37:ARG:NH1	1:A:38:GLN:O	2.47	0.48
1:B:179:ARG:HB2	1:B:209:PHE:HB3	1.94	0.48
1:C:821:LEU:HD22	1:H:822:LEU:HD22	1.93	0.48
1:D:20:ASP:HA	1:D:41:GLU:HA	1.95	0.48
1:D:839:VAL:HB	1:AN:837:THR:HG1	1.78	0.48
1:E:338:GLN:HE21	1:F:279:GLN:HE21	1.60	0.48
1:G:37:ARG:NH1	1:G:38:GLN:O	2.47	0.48
1:G:551:ASP:OD1	1:G:551:ASP:N	2.43	0.48
1:H:219:VAL:HG11	1:H:227:LEU:HD13	1.94	0.48
1:J:120:ALA:HB2	1:J:205:LEU:HD21	1.95	0.48
1:J:177:ARG:HB2	1:J:213:LEU:HD11	1.95	0.48
1:J:179:ARG:HB2	1:J:209:PHE:HB3	1.95	0.48
1:L:60:VAL:HA	1:L:89:GLU:O	2.13	0.48
1:L:176:LEU:O	1:L:195:GLU:HA	2.14	0.48
1:L:725:GLU:OE2	1:L:729:ARG:NH1	2.43	0.48
1:M:37:ARG:NH1	1:M:38:GLN:O	2.47	0.48
1:N:503:GLY:O	1:N:506:LYS:NZ	2.46	0.48
1:N:794:LYS:HE2	1:N:798:MET:HE3	1.95	0.48
1:S:417:LYS:O	1:S:452:ARG:NH2	2.42	0.48
1:U:95:ASP:N	1:U:95:ASP:OD1	2.44	0.48
1:Y:37:ARG:NH1	1:Y:38:GLN:O	2.47	0.48
1:Z:170:PRO:HG2	1:a:233:ARG:HD3	1.94	0.48
1:Z:531:THR:OG1	1:Z:532:ALA:N	2.46	0.48
1:a:666:THR:HG22	1:e:657:SER:HB2	1.96	0.48
1:f:503:GLY:O	1:f:506:LYS:NZ	2.46	0.48
1:g:417:LYS:O	1:g:452:ARG:NH2	2.42	0.48
1:h:130:GLU:OE1	1:h:134:GLY:O	2.31	0.48
1:j:46:ASP:OD1	1:j:46:ASP:N	2.46	0.48
1:k:95:ASP:OD1	1:k:95:ASP:N	2.45	0.48
1:m:666:THR:HG22	1:q:657:SER:HB2	1.96	0.48
1:p:124:ARG:NH1	1:p:142:GLU:OE2	2.46	0.48
1:q:468:VAL:HG22	1:q:481:VAL:HG22	1.94	0.48
1:x:219:VAL:HG11	1:x:227:LEU:HD13	1.94	0.48
1:x:503:GLY:O	1:x:506:LYS:NZ	2.46	0.48
1:0:812:VAL:HG12	1:1:814:GLY:HA2	1.95	0.48
1:2:328:GLU:O	1:2:360:ARG:NH2	2.44	0.48
1:7:522:PHE:HA	1:7:543:TYR:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:595:SER:O	1:8:599:ILE:CG1	2.55	0.48
1:AA:382:LEU:HD13	1:AA:387:GLY:HA2	1.96	0.48
1:AF:27:ARG:NH2	1:AF:41:GLU:OE2	2.46	0.48
1:AF:179:ARG:HB2	1:AF:209:PHE:HB3	1.94	0.48
1:AJ:60:VAL:HA	1:AJ:89:GLU:O	2.13	0.48
1:AL:794:LYS:HE2	1:AL:798:MET:HE3	1.95	0.48
1:AM:122:HIS:NE2	1:AM:142:GLU:OE1	2.45	0.48
1:AN:648:GLN:OE1	1:AN:651:ARG:NH1	2.46	0.48
1:F:127:LEU:HB2	1:F:156:GLU:HB3	1.94	0.48
1:F:176:LEU:O	1:F:195:GLU:HA	2.14	0.48
1:H:88:MET:HB2	1:H:155:LYS:HG3	1.93	0.48
1:H:796:LYS:HE3	1:H:796:LYS:HB3	1.44	0.48
1:L:46:ASP:N	1:L:46:ASP:OD1	2.46	0.48
1:L:129:PHE:CD2	1:L:156:GLU:HB3	2.38	0.48
1:M:468:VAL:HG22	1:M:481:VAL:HG22	1.95	0.48
1:P:20:ASP:HA	1:P:41:GLU:HA	1.95	0.48
1:R:176:LEU:O	1:R:195:GLU:HA	2.14	0.48
1:U:12:PRO:HB3	1:U:32:PRO:HB3	1.94	0.48
1:U:666:THR:HG22	1:Y:657:SER:HB2	1.96	0.48
1:V:120:ALA:HB2	1:V:205:LEU:HD21	1.95	0.48
1:X:46:ASP:OD1	1:X:46:ASP:N	2.46	0.48
1:Z:120:ALA:HB2	1:Z:205:LEU:HD21	1.94	0.48
1:a:12:PRO:HB3	1:a:32:PRO:HB3	1.94	0.48
1:c:122:HIS:NE2	1:c:142:GLU:OE1	2.43	0.48
1:f:27:ARG:NH1	1:f:29:GLU:OE2	2.46	0.48
1:g:666:THR:HG22	1:k:657:SER:HB2	1.96	0.48
1:j:60:VAL:HA	1:j:89:GLU:O	2.13	0.48
1:n:648:GLN:OE1	1:n:651:ARG:NH1	2.46	0.48
1:o:37:ARG:NH1	1:o:38:GLN:O	2.47	0.48
1:r:219:VAL:HG11	1:r:227:LEU:HD13	1.94	0.48
1:2:40:ASN:HB3	1:6:40:ASN:HB3	1.94	0.48
1:3:219:VAL:HG11	1:3:227:LEU:HD13	1.94	0.48
1:3:503:GLY:O	1:3:506:LYS:NZ	2.46	0.48
1:5:53:VAL:HG12	1:5:109:ILE:HG23	1.96	0.48
1:9:219:VAL:HG11	1:9:227:LEU:HD13	1.94	0.48
1:AB:648:GLN:OE1	1:AB:651:ARG:NH1	2.46	0.48
1:AC:328:GLU:O	1:AC:360:ARG:NH2	2.44	0.48
1:AD:417:LYS:O	1:AD:452:ARG:NH2	2.42	0.48
1:AE:37:ARG:NH1	1:AE:38:GLN:O	2.47	0.48
1:AE:468:VAL:HG22	1:AE:481:VAL:HG22	1.95	0.48
1:AF:177:ARG:HB2	1:AF:213:LEU:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:382:LEU:HD13	1:AG:387:GLY:HA2	1.96	0.48
1:AH:774:ARG:NH1	1:AO:779:LEU:HD11	2.27	0.48
1:AJ:124:ARG:NH1	1:AJ:142:GLU:OE2	2.46	0.48
1:AL:531:THR:OG1	1:AL:532:ALA:N	2.46	0.48
1:AN:179:ARG:HB2	1:AN:209:PHE:HB3	1.95	0.48
1:AP:124:ARG:NH1	1:AP:142:GLU:OE2	2.46	0.48
1:H:503:GLY:O	1:H:506:LYS:NZ	2.46	0.48
1:M:219:VAL:HG11	1:M:227:LEU:HD13	1.96	0.48
1:N:27:ARG:NH2	1:N:41:GLU:OE2	2.46	0.48
1:Q:219:VAL:HG11	1:Q:227:LEU:HD13	1.96	0.48
1:S:17:HIS:NE2	1:S:99:LEU:O	2.36	0.48
1:S:219:VAL:HG11	1:S:227:LEU:HD13	1.96	0.48
1:W:219:VAL:HG11	1:W:227:LEU:HD13	1.96	0.48
1:d:60:VAL:HA	1:d:89:GLU:O	2.13	0.48
1:d:122:HIS:NE2	1:d:142:GLU:OE1	2.44	0.48
1:e:95:ASP:N	1:e:95:ASP:OD1	2.45	0.48
1:i:182:PHE:HE2	1:i:209:PHE:H	1.59	0.48
1:j:474:ARG:HB2	1:j:492:GLU:HB2	1.96	0.48
1:m:417:LYS:O	1:m:452:ARG:NH2	2.42	0.48
1:p:474:ARG:HB2	1:p:492:GLU:HB2	1.96	0.48
1:s:666:THR:HG22	1:w:657:SER:HB2	1.96	0.48
1:t:717:GLU:HB2	1:v:707:LEU:HD13	1.96	0.48
1:u:468:VAL:HG12	1:u:515:CYS:HA	1.96	0.48
1:0:37:ARG:NH1	1:0:38:GLN:O	2.47	0.48
1:5:717:GLU:HB2	1:7:707:LEU:HD13	1.96	0.48
1:7:176:LEU:O	1:7:195:GLU:HA	2.14	0.48
1:9:27:ARG:NH2	1:9:41:GLU:OE2	2.46	0.48
1:AC:37:ARG:NH1	1:AC:38:GLN:O	2.47	0.48
1:AD:522:PHE:HA	1:AD:543:TYR:O	2.13	0.48
1:AF:219:VAL:HG11	1:AF:227:LEU:HD13	1.94	0.48
1:AL:179:ARG:HB2	1:AL:209:PHE:HB3	1.94	0.48
1:AL:219:VAL:HG11	1:AL:227:LEU:HD13	1.94	0.48
1:AL:417:LYS:O	1:AL:452:ARG:NH2	2.42	0.48
1:AP:522:PHE:HA	1:AP:543:TYR:O	2.13	0.48
1:D:177:ARG:HB2	1:D:213:LEU:HD11	1.95	0.48
1:E:122:HIS:NE2	1:E:142:GLU:OE1	2.44	0.48
1:E:531:THR:OG1	1:E:586:VAL:O	2.27	0.48
1:H:179:ARG:HB2	1:H:209:PHE:HB3	1.94	0.48
1:J:53:VAL:HG12	1:J:109:ILE:HG23	1.96	0.48
1:O:666:THR:HG22	1:S:657:SER:HB2	1.96	0.48
1:P:53:VAL:HG12	1:P:109:ILE:HG23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:66:VAL:HG22	1:T:84:ARG:HD3	1.96	0.48
1:T:120:ALA:HB2	1:T:205:LEU:HD21	1.95	0.48
1:T:794:LYS:HE2	1:T:798:MET:HE3	1.95	0.48
1:X:176:LEU:O	1:X:195:GLU:HA	2.14	0.48
1:d:176:LEU:O	1:d:195:GLU:HA	2.14	0.48
1:d:474:ARG:HB2	1:d:492:GLU:HB2	1.96	0.48
1:e:27:ARG:NH2	1:e:35:TYR:OH	2.47	0.48
1:h:717:GLU:HB2	1:j:707:LEU:HD13	1.96	0.48
1:l:219:VAL:HG11	1:l:227:LEU:HD13	1.94	0.48
1:p:60:VAL:HA	1:p:89:GLU:O	2.13	0.48
1:p:176:LEU:O	1:p:195:GLU:HA	2.14	0.48
1:u:812:VAL:HG12	1:v:814:GLY:HA2	1.95	0.48
1:v:522:PHE:HA	1:v:543:TYR:O	2.13	0.48
1:0:468:VAL:HG12	1:0:515:CYS:HA	1.96	0.48
1:4:417:LYS:O	1:4:452:ARG:NH2	2.42	0.48
1:7:46:ASP:OD1	1:7:46:ASP:N	2.46	0.48
1:9:503:GLY:O	1:9:506:LYS:NZ	2.46	0.48
1:AC:350:SER:O	1:AC:350:SER:OG	2.31	0.48
1:AD:176:LEU:O	1:AD:195:GLU:HA	2.14	0.48
1:AF:794:LYS:HE2	1:AF:798:MET:HE3	1.95	0.48
1:AH:130:GLU:HG3	1:AH:136:LYS:HA	1.95	0.48
1:AH:177:ARG:HB2	1:AH:213:LEU:HD11	1.95	0.48
1:AH:179:ARG:HB2	1:AH:209:PHE:HB3	1.95	0.48
1:AN:20:ASP:HA	1:AN:41:GLU:HA	1.95	0.48
1:AP:176:LEU:O	1:AP:195:GLU:HA	2.14	0.48
1:A:328:GLU:O	1:A:360:ARG:NH2	2.44	0.48
1:I:95:ASP:OD1	1:I:95:ASP:N	2.44	0.48
1:J:130:GLU:OE1	1:J:134:GLY:O	2.31	0.48
1:K:417:LYS:O	1:K:452:ARG:NH2	2.42	0.48
1:P:27:ARG:NH1	1:P:29:GLU:OE2	2.47	0.48
1:P:179:ARG:HB2	1:P:209:PHE:HB3	1.95	0.48
1:U:382:LEU:HD13	1:U:387:GLY:HA2	1.96	0.48
1:U:417:LYS:O	1:U:452:ARG:NH2	2.42	0.48
1:Z:66:VAL:HG22	1:Z:84:ARG:HD3	1.96	0.48
1:c:37:ARG:NH1	1:c:38:GLN:O	2.47	0.48
1:j:176:LEU:O	1:j:195:GLU:HA	2.14	0.48
1:k:37:ARG:NH1	1:k:38:GLN:O	2.47	0.48
1:k:595:SER:O	1:k:599:ILE:CG1	2.55	0.48
1:n:53:VAL:HG12	1:n:109:ILE:HG23	1.96	0.48
1:n:717:GLU:HB2	1:p:707:LEU:HD13	1.96	0.48
1:o:468:VAL:HG12	1:o:515:CYS:HA	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:95:ASP:OD1	1:q:95:ASP:N	2.45	0.48
1:q:350:SER:O	1:q:350:SER:OG	2.31	0.48
1:r:177:ARG:HB2	1:r:213:LEU:HD11	1.95	0.48
1:t:130:GLU:OE1	1:t:134:GLY:O	2.31	0.48
1:t:350:SER:O	1:t:350:SER:OG	2.32	0.48
1:y:666:THR:HG22	1:2:657:SER:HB2	1.96	0.48
1:z:20:ASP:HA	1:z:41:GLU:HA	1.95	0.48
1:z:717:GLU:HB2	1:1:707:LEU:HD13	1.96	0.48
1:2:27:ARG:NH2	1:2:35:TYR:OH	2.47	0.48
1:8:328:GLU:O	1:8:360:ARG:NH2	2.44	0.48
1:9:177:ARG:HB2	1:9:213:LEU:HD11	1.95	0.48
1:AE:27:ARG:NH2	1:AE:35:TYR:OH	2.47	0.48
1:AI:417:LYS:O	1:AI:452:ARG:NH2	2.42	0.48
1:AJ:27:ARG:NH1	1:AJ:29:GLU:OE2	2.46	0.48
1:AN:177:ARG:HB2	1:AN:213:LEU:HD11	1.95	0.48
1:G:595:SER:O	1:G:599:ILE:CG1	2.55	0.48
1:I:382:LEU:HD13	1:I:387:GLY:HA2	1.95	0.48
1:N:66:VAL:HG22	1:N:84:ARG:HD3	1.96	0.48
1:N:170:PRO:HG2	1:O:233:ARG:HD3	1.94	0.48
1:S:468:VAL:HG22	1:S:481:VAL:HG22	1.95	0.48
1:T:170:PRO:HG2	1:U:233:ARG:HD3	1.94	0.48
1:T:531:THR:OG1	1:T:532:ALA:N	2.46	0.48
1:V:179:ARG:HB2	1:V:209:PHE:HB3	1.95	0.48
1:b:120:ALA:HB2	1:b:205:LEU:HD21	1.95	0.48
1:c:338:GLN:HE21	1:d:279:GLN:HE21	1.60	0.48
1:f:120:ALA:HB2	1:f:205:LEU:HD21	1.94	0.48
1:h:27:ARG:NH1	1:h:29:GLU:OE2	2.47	0.48
1:j:522:PHE:HA	1:j:543:TYR:O	2.13	0.48
1:l:120:ALA:HB2	1:l:205:LEU:HD21	1.94	0.48
1:l:503:GLY:O	1:l:506:LYS:NZ	2.46	0.48
1:q:27:ARG:NH2	1:q:35:TYR:OH	2.47	0.48
1:q:219:VAL:HG11	1:q:227:LEU:HD13	1.96	0.48
1:v:176:LEU:O	1:v:195:GLU:HA	2.14	0.48
1:v:411:ASP:OD1	1:v:411:ASP:N	2.41	0.48
1:v:474:ARG:HB2	1:v:492:GLU:HB2	1.96	0.48
1:w:27:ARG:NH2	1:w:35:TYR:OH	2.47	0.48
1:w:219:VAL:HG11	1:w:227:LEU:HD13	1.96	0.48
1:x:177:ARG:HB2	1:x:213:LEU:HD11	1.95	0.48
1:y:17:HIS:NE2	1:y:99:LEU:O	2.37	0.48
1:z:130:GLU:HG3	1:z:136:LYS:HA	1.95	0.48
1:1:127:LEU:HB2	1:1:156:GLU:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:128:ASP:HB3	1:2:136:LYS:HZ1	1.79	0.48
1:3:177:ARG:HB2	1:3:213:LEU:HD11	1.95	0.48
1:3:531:THR:OG1	1:3:532:ALA:N	2.46	0.48
1:5:120:ALA:HB2	1:5:205:LEU:HD21	1.95	0.48
1:6:812:VAL:HG12	1:7:814:GLY:HA2	1.95	0.48
1:7:122:HIS:NE2	1:7:142:GLU:OE1	2.44	0.48
1:AD:46:ASP:N	1:AD:46:ASP:OD1	2.46	0.48
1:AK:37:ARG:NH1	1:AK:38:GLN:O	2.47	0.48
1:A:27:ARG:NH2	1:A:35:TYR:OH	2.47	0.48
1:B:219:VAL:HG11	1:B:227:LEU:HD13	1.94	0.48
1:D:53:VAL:HG12	1:D:109:ILE:HG23	1.96	0.48
1:K:523:PHE:CE1	1:K:545:TRP:CE2	3.02	0.48
1:R:587:THR:OG1	1:R:588:PHE:N	2.47	0.48
1:X:474:ARG:HB2	1:X:492:GLU:HB2	1.96	0.48
1:Y:219:VAL:HG11	1:Y:227:LEU:HD13	1.96	0.48
1:b:130:GLU:OE1	1:b:134:GLY:O	2.31	0.48
1:c:219:VAL:HG11	1:c:227:LEU:HD13	1.96	0.48
1:f:531:THR:OG1	1:f:532:ALA:N	2.46	0.48
1:j:17:HIS:NE2	1:j:99:LEU:O	2.38	0.48
1:q:827:LEU:HD13	1:r:795:PHE:CD1	2.49	0.48
1:u:219:VAL:HG11	1:u:227:LEU:HD13	1.96	0.48
1:z:120:ALA:HB2	1:z:205:LEU:HD21	1.95	0.48
1:0:219:VAL:HG11	1:0:227:LEU:HD13	1.96	0.48
1:1:46:ASP:N	1:1:46:ASP:OD1	2.46	0.48
1:1:60:VAL:HA	1:1:89:GLU:O	2.13	0.48
1:2:17:HIS:NE2	1:2:99:LEU:O	2.36	0.48
1:6:37:ARG:NH1	1:6:38:GLN:O	2.47	0.48
1:8:37:ARG:NH1	1:8:38:GLN:O	2.47	0.48
1:AD:587:THR:OG1	1:AD:588:PHE:N	2.47	0.48
1:AG:12:PRO:HB3	1:AG:32:PRO:HB3	1.94	0.48
1:AG:17:HIS:NE2	1:AG:99:LEU:O	2.38	0.48
1:AH:717:GLU:HB2	1:AJ:707:LEU:HD13	1.96	0.48
1:AK:27:ARG:NH2	1:AK:35:TYR:OH	2.47	0.48
1:AM:12:PRO:HB3	1:AM:32:PRO:HB3	1.94	0.48
1:AN:27:ARG:NH1	1:AN:29:GLU:OE2	2.47	0.48
1:AN:560:LYS:NZ	1:AN:630:GLN:O	2.44	0.48
1:D:120:ALA:HB2	1:D:205:LEU:HD21	1.95	0.47
1:F:587:THR:OG1	1:F:588:PHE:N	2.47	0.47
1:I:666:THR:HG22	1:M:657:SER:HB2	1.96	0.47
1:K:219:VAL:HG11	1:K:227:LEU:HD13	1.96	0.47
1:O:503:GLY:O	1:O:506:LYS:NZ	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:27:ARG:NH2	1:S:35:TYR:OH	2.47	0.47
1:X:60:VAL:HA	1:X:89:GLU:O	2.13	0.47
1:Z:794:LYS:HE2	1:Z:798:MET:HE3	1.95	0.47
1:b:179:ARG:HB2	1:b:209:PHE:HB3	1.95	0.47
1:d:587:THR:OG1	1:d:588:PHE:N	2.47	0.47
1:f:66:VAL:HG22	1:f:84:ARG:HD3	1.96	0.47
1:g:503:GLY:O	1:g:506:LYS:NZ	2.47	0.47
1:i:812:VAL:HG12	1:j:814:GLY:HA2	1.95	0.47
1:n:130:GLU:HG3	1:n:136:LYS:HA	1.95	0.47
1:p:382:LEU:HD13	1:p:387:GLY:HA2	1.96	0.47
1:p:411:ASP:OD1	1:p:411:ASP:N	2.41	0.47
1:r:120:ALA:HB2	1:r:205:LEU:HD21	1.94	0.47
1:s:122:HIS:NE2	1:s:142:GLU:OE1	2.45	0.47
1:t:417:LYS:O	1:t:452:ARG:NH2	2.42	0.47
1:v:587:THR:OG1	1:v:588:PHE:N	2.47	0.47
1:6:468:VAL:HG12	1:6:515:CYS:HA	1.96	0.47
1:9:794:LYS:HE2	1:9:798:MET:HE3	1.95	0.47
1:AB:717:GLU:HB2	1:AD:707:LEU:HD13	1.96	0.47
1:AC:812:VAL:HG12	1:AD:814:GLY:HA2	1.95	0.47
1:AH:20:ASP:HA	1:AH:41:GLU:HA	1.95	0.47
1:AN:417:LYS:O	1:AN:452:ARG:NH2	2.43	0.47
1:AO:338:GLN:HE21	1:AP:279:GLN:HE21	1.60	0.47
1:AP:127:LEU:HB2	1:AP:156:GLU:HB3	1.94	0.47
1:B:648:GLN:OE1	1:B:651:ARG:NH1	2.47	0.47
1:E:523:PHE:CE1	1:E:545:TRP:CE2	3.02	0.47
1:G:219:VAL:HG11	1:G:227:LEU:HD13	1.96	0.47
1:H:27:ARG:NH2	1:H:41:GLU:OE2	2.46	0.47
1:H:66:VAL:HG22	1:H:84:ARG:HD3	1.96	0.47
1:H:170:PRO:HG2	1:I:233:ARG:HD3	1.94	0.47
1:H:182:PHE:HE2	1:H:209:PHE:H	1.62	0.47
1:I:350:SER:O	1:I:350:SER:OG	2.31	0.47
1:J:27:ARG:NH1	1:J:29:GLU:OE2	2.47	0.47
1:M:95:ASP:N	1:M:95:ASP:OD1	2.45	0.47
1:N:182:PHE:HE2	1:N:209:PHE:H	1.62	0.47
1:O:382:LEU:HD13	1:O:387:GLY:HA2	1.96	0.47
1:Q:812:VAL:HG12	1:R:814:GLY:HA2	1.95	0.47
1:S:37:ARG:NH1	1:S:38:GLN:O	2.47	0.47
1:S:62:ALA:HB3	1:S:104:LEU:HB3	1.96	0.47
1:T:648:GLN:OE1	1:T:651:ARG:NH1	2.47	0.47
1:V:20:ASP:HA	1:V:41:GLU:HA	1.95	0.47
1:V:53:VAL:HG12	1:V:109:ILE:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:648:GLN:OE1	1:V:651:ARG:NH1	2.46	0.47
1:X:17:HIS:NE2	1:X:99:LEU:O	2.38	0.47
1:a:33:LYS:HE3	1:a:35:TYR:HD1	1.78	0.47
1:b:27:ARG:NH1	1:b:29:GLU:OE2	2.47	0.47
1:h:625:ARG:NH1	1:h:636:SER:O	2.48	0.47
1:i:37:ARG:NH1	1:i:38:GLN:O	2.47	0.47
1:r:794:LYS:HE2	1:r:798:MET:HE3	1.95	0.47
1:t:130:GLU:HG3	1:t:136:LYS:HA	1.95	0.47
1:u:37:ARG:NH1	1:u:38:GLN:O	2.47	0.47
1:u:122:HIS:NE2	1:u:142:GLU:OE1	2.44	0.47
1:w:37:ARG:NH1	1:w:38:GLN:O	2.47	0.47
1:y:382:LEU:HD13	1:y:387:GLY:HA2	1.96	0.47
1:0:794:LYS:HZ1	1:0:851:LEU:HD21	1.78	0.47
1:2:37:ARG:NH1	1:2:38:GLN:O	2.47	0.47
1:2:219:VAL:HG11	1:2:227:LEU:HD13	1.96	0.47
1:3:66:VAL:HG22	1:3:84:ARG:HD3	1.96	0.47
1:7:382:LEU:HD13	1:7:387:GLY:HA2	1.96	0.47
1:8:468:VAL:HG22	1:8:481:VAL:HG22	1.95	0.47
1:AB:53:VAL:HG12	1:AB:109:ILE:HG23	1.96	0.47
1:AB:179:ARG:HB2	1:AB:209:PHE:HB3	1.95	0.47
1:AB:774:ARG:NH1	1:AI:779:LEU:HD11	2.27	0.47
1:AJ:176:LEU:O	1:AJ:195:GLU:HA	2.14	0.47
1:AL:503:GLY:O	1:AL:506:LYS:NZ	2.46	0.47
1:AM:382:LEU:HD13	1:AM:387:GLY:HA2	1.96	0.47
1:AN:625:ARG:NH1	1:AN:636:SER:O	2.48	0.47
1:AP:382:LEU:HD13	1:AP:387:GLY:HA2	1.96	0.47
1:E:37:ARG:NH1	1:E:38:GLN:O	2.47	0.47
1:G:27:ARG:NH2	1:G:35:TYR:OH	2.47	0.47
1:G:124:ARG:NH1	1:G:142:GLU:OE2	2.48	0.47
1:L:503:GLY:O	1:L:506:LYS:NZ	2.47	0.47
1:M:62:ALA:HB3	1:M:104:LEU:HB3	1.96	0.47
1:P:625:ARG:NH1	1:P:636:SER:O	2.48	0.47
1:Q:523:PHE:CE1	1:Q:545:TRP:CE2	3.02	0.47
1:U:33:LYS:HE3	1:U:35:TYR:HD1	1.78	0.47
1:X:122:HIS:NE2	1:X:142:GLU:OE1	2.44	0.47
1:X:382:LEU:HD13	1:X:387:GLY:HA2	1.96	0.47
1:b:717:GLU:HB2	1:d:707:LEU:HD13	1.96	0.47
1:c:417:LYS:O	1:c:452:ARG:NH2	2.42	0.47
1:c:812:VAL:HG12	1:d:814:GLY:HA2	1.95	0.47
1:h:53:VAL:HG12	1:h:109:ILE:HG23	1.96	0.47
1:i:350:SER:O	1:i:350:SER:OG	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:468:VAL:HG12	1:i:515:CYS:HA	1.96	0.47
1:l:796:LYS:HE3	1:l:796:LYS:HB3	1.44	0.47
1:n:182:PHE:HE2	1:n:209:PHE:H	1.63	0.47
1:o:219:VAL:HG11	1:o:227:LEU:HD13	1.96	0.47
1:o:411:ASP:OD1	1:o:411:ASP:N	2.44	0.47
1:q:827:LEU:HD22	1:r:795:PHE:CD1	2.50	0.47
1:s:382:LEU:HD13	1:s:387:GLY:HA2	1.96	0.47
1:s:522:PHE:HA	1:s:543:TYR:O	2.15	0.47
1:v:60:VAL:HA	1:v:89:GLU:O	2.13	0.47
1:w:827:LEU:HD22	1:x:795:PHE:CD1	2.50	0.47
1:0:411:ASP:OD1	1:0:411:ASP:N	2.44	0.47
1:1:474:ARG:HB2	1:1:492:GLU:HB2	1.96	0.47
1:2:468:VAL:HG22	1:2:481:VAL:HG22	1.95	0.47
1:9:66:VAL:HG22	1:9:84:ARG:HD3	1.96	0.47
1:AA:503:GLY:O	1:AA:506:LYS:NZ	2.47	0.47
1:AB:129:PHE:CD1	1:AB:156:GLU:CB	2.98	0.47
1:AB:130:GLU:HG3	1:AB:136:LYS:HA	1.95	0.47
1:AG:522:PHE:HA	1:AG:543:TYR:O	2.15	0.47
1:AJ:382:LEU:HD13	1:AJ:387:GLY:HA2	1.96	0.47
1:AO:37:ARG:NH1	1:AO:38:GLN:O	2.47	0.47
1:A:124:ARG:NH1	1:A:142:GLU:OE2	2.48	0.47
1:B:66:VAL:HG22	1:B:84:ARG:HD3	1.96	0.47
1:B:531:THR:OG1	1:B:532:ALA:N	2.46	0.47
1:E:481:VAL:HG21	1:E:487:VAL:HB	1.96	0.47
1:K:481:VAL:HG21	1:K:487:VAL:HB	1.96	0.47
1:K:531:THR:OG1	1:K:586:VAL:O	2.27	0.47
1:P:129:PHE:CD1	1:P:156:GLU:CB	2.98	0.47
1:R:522:PHE:HA	1:R:543:TYR:O	2.13	0.47
1:S:827:LEU:HD13	1:T:795:PHE:CD1	2.49	0.47
1:V:27:ARG:NH1	1:V:29:GLU:OE2	2.47	0.47
1:V:129:PHE:CD1	1:V:156:GLU:CB	2.98	0.47
1:V:717:GLU:HB2	1:X:707:LEU:HD13	1.96	0.47
1:W:812:VAL:HG12	1:X:814:GLY:HA2	1.95	0.47
1:Y:27:ARG:NH2	1:Y:35:TYR:OH	2.47	0.47
1:Z:503:GLY:O	1:Z:506:LYS:NZ	2.46	0.47
1:a:522:PHE:HA	1:a:543:TYR:O	2.15	0.47
1:b:625:ARG:NH1	1:b:636:SER:O	2.48	0.47
1:e:37:ARG:NH1	1:e:38:GLN:O	2.47	0.47
1:e:155:LYS:HB3	1:e:155:LYS:HE3	1.76	0.47
1:h:182:PHE:HE2	1:h:209:PHE:H	1.63	0.47
1:i:328:GLU:O	1:i:360:ARG:NH2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:122:HIS:NE2	1:j:142:GLU:OE1	2.44	0.47
1:k:124:ARG:NH1	1:k:142:GLU:OE2	2.48	0.47
1:l:794:LYS:HE2	1:l:798:MET:HE3	1.95	0.47
1:n:625:ARG:NH1	1:n:636:SER:O	2.48	0.47
1:p:46:ASP:OD1	1:p:46:ASP:N	2.46	0.47
1:t:27:ARG:NH1	1:t:29:GLU:OE2	2.47	0.47
1:w:124:ARG:NH1	1:w:142:GLU:OE2	2.48	0.47
1:w:468:VAL:HG22	1:w:481:VAL:HG22	1.95	0.47
1:x:794:LYS:HE2	1:x:798:MET:HE3	1.95	0.47
1:1:176:LEU:O	1:1:195:GLU:HA	2.14	0.47
1:1:411:ASP:OD1	1:1:411:ASP:N	2.41	0.47
1:4:666:THR:HG22	1:8:657:SER:HB2	1.96	0.47
1:5:27:ARG:NH1	1:5:29:GLU:OE2	2.47	0.47
1:5:129:PHE:CD1	1:5:156:GLU:CB	2.98	0.47
1:7:60:VAL:HA	1:7:89:GLU:O	2.13	0.47
1:9:769:GLU:OE2	1:AA:766:ARG:NH1	2.42	0.47
1:AB:120:ALA:HB2	1:AB:205:LEU:HD21	1.95	0.47
1:AB:175:ARG:NH1	1:AB:195:GLU:OE1	2.44	0.47
1:AF:66:VAL:HG22	1:AF:84:ARG:HD3	1.96	0.47
1:D:27:ARG:NH1	1:D:29:GLU:OE2	2.47	0.47
1:F:17:HIS:NE2	1:F:99:LEU:O	2.38	0.47
1:J:129:PHE:CD1	1:J:156:GLU:CB	2.98	0.47
1:O:522:PHE:HA	1:O:543:TYR:O	2.15	0.47
1:Q:37:ARG:NH1	1:Q:38:GLN:O	2.47	0.47
1:R:474:ARG:HB2	1:R:492:GLU:HB2	1.96	0.47
1:S:124:ARG:NH1	1:S:142:GLU:OE2	2.48	0.47
1:V:625:ARG:NH1	1:V:636:SER:O	2.48	0.47
1:Y:95:ASP:OD1	1:Y:95:ASP:N	2.45	0.47
1:d:46:ASP:N	1:d:46:ASP:OD1	2.46	0.47
1:h:129:PHE:HZ	1:h:157:VAL:CG2	2.28	0.47
1:h:350:SER:O	1:h:350:SER:OG	2.31	0.47
1:i:122:HIS:NE2	1:i:142:GLU:OE1	2.44	0.47
1:j:129:PHE:CD2	1:j:156:GLU:HB3	2.38	0.47
1:j:382:LEU:HD13	1:j:387:GLY:HA2	1.96	0.47
1:k:27:ARG:NH2	1:k:35:TYR:OH	2.47	0.47
1:o:122:HIS:NE2	1:o:142:GLU:OE1	2.44	0.47
1:q:17:HIS:NE2	1:q:99:LEU:O	2.36	0.47
1:r:503:GLY:O	1:r:506:LYS:NZ	2.46	0.47
1:t:120:ALA:HB2	1:t:205:LEU:HD21	1.95	0.47
1:x:66:VAL:HG22	1:x:84:ARG:HD3	1.96	0.47
1:x:648:GLN:OE1	1:x:651:ARG:NH1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:27:ARG:NH1	1:z:29:GLU:OE2	2.47	0.47
1:z:130:GLU:OE1	1:z:134:GLY:O	2.31	0.47
1:2:827:LEU:HD22	1:3:795:PHE:CD1	2.50	0.47
1:5:625:ARG:NH1	1:5:636:SER:O	2.48	0.47
1:6:219:VAL:HG11	1:6:227:LEU:HD13	1.96	0.47
1:6:794:LYS:HZ1	1:6:851:LEU:HD21	1.79	0.47
1:8:27:ARG:NH2	1:8:35:TYR:OH	2.47	0.47
1:8:175:ARG:NH1	1:8:195:GLU:OE1	2.44	0.47
1:8:219:VAL:HG11	1:8:227:LEU:HD13	1.96	0.47
1:AE:417:LYS:O	1:AE:452:ARG:NH2	2.42	0.47
1:AH:27:ARG:NH1	1:AH:29:GLU:OE2	2.47	0.47
1:AH:129:PHE:CD1	1:AH:156:GLU:CB	2.98	0.47
1:AJ:17:HIS:NE2	1:AJ:99:LEU:O	2.38	0.47
1:AJ:587:THR:OG1	1:AJ:588:PHE:N	2.47	0.47
1:AK:62:ALA:HB3	1:AK:104:LEU:HB3	1.96	0.47
1:AL:66:VAL:HG22	1:AL:84:ARG:HD3	1.96	0.47
1:AN:717:GLU:HB2	1:AP:707:LEU:HD13	1.96	0.47
1:AO:812:VAL:HG12	1:AP:814:GLY:HA2	1.95	0.47
1:AP:46:ASP:N	1:AP:46:ASP:OD1	2.46	0.47
1:D:129:PHE:CD1	1:D:156:GLU:CB	2.98	0.47
1:D:625:ARG:NH1	1:D:636:SER:O	2.48	0.47
1:F:579:VAL:O	1:F:583:VAL:HB	2.15	0.47
1:G:17:HIS:NE2	1:G:99:LEU:O	2.36	0.47
1:H:606:PHE:O	1:H:623:ARG:NH1	2.48	0.47
1:H:648:GLN:OE1	1:H:651:ARG:NH1	2.47	0.47
1:K:794:LYS:HZ1	1:K:851:LEU:HD21	1.79	0.47
1:M:27:ARG:NH2	1:M:35:TYR:OH	2.47	0.47
1:M:128:ASP:HB3	1:M:136:LYS:HZ1	1.80	0.47
1:R:382:LEU:HD13	1:R:387:GLY:HA2	1.96	0.47
1:T:20:ASP:HA	1:T:41:GLU:HA	1.97	0.47
1:U:595:SER:HG	1:Y:580:ARG:HH22	1.59	0.47
1:W:523:PHE:CZ	1:W:545:TRP:CG	3.03	0.47
1:a:382:LEU:HD13	1:a:387:GLY:HA2	1.96	0.47
1:a:503:GLY:O	1:a:506:LYS:NZ	2.47	0.47
1:b:129:PHE:CD1	1:b:156:GLU:CB	2.98	0.47
1:c:77:VAL:O	1:c:77:VAL:HG12	2.15	0.47
1:c:523:PHE:CZ	1:c:545:TRP:CG	3.03	0.47
1:f:794:LYS:HE2	1:f:798:MET:HE3	1.95	0.47
1:g:522:PHE:HA	1:g:543:TYR:O	2.15	0.47
1:h:596:ALA:O	1:h:600:ARG:HB3	2.15	0.47
1:i:523:PHE:CZ	1:i:545:TRP:CG	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:755:THR:O	1:m:759:LEU:HB2	2.15	0.47
1:o:481:VAL:HG21	1:o:487:VAL:HB	1.96	0.47
1:p:122:HIS:NE2	1:p:142:GLU:OE1	2.44	0.47
1:q:37:ARG:NH1	1:q:38:GLN:O	2.47	0.47
1:t:182:PHE:HE2	1:t:209:PHE:H	1.63	0.47
1:z:179:ARG:HB2	1:z:209:PHE:HB3	1.95	0.47
1:z:182:PHE:HE2	1:z:209:PHE:H	1.63	0.47
1:0:128:ASP:HB3	1:0:136:LYS:HZ1	1.80	0.47
1:1:382:LEU:HD13	1:1:387:GLY:HA2	1.96	0.47
1:3:794:LYS:HE2	1:3:798:MET:HE3	1.95	0.47
1:5:130:GLU:HG3	1:5:136:LYS:HA	1.95	0.47
1:5:179:ARG:HB2	1:5:209:PHE:HB3	1.95	0.47
1:6:77:VAL:O	1:6:77:VAL:HG12	2.15	0.47
1:7:474:ARG:HB2	1:7:492:GLU:HB2	1.96	0.47
1:8:827:LEU:HD22	1:9:795:PHE:CD1	2.50	0.47
1:AB:20:ASP:HA	1:AB:41:GLU:HA	1.95	0.47
1:AE:827:LEU:HD22	1:AF:795:PHE:CD1	2.50	0.47
1:AH:175:ARG:NH1	1:AH:195:GLU:OE1	2.44	0.47
1:AI:812:VAL:HG12	1:AJ:814:GLY:HA2	1.95	0.47
1:AK:95:ASP:N	1:AK:95:ASP:OD1	2.45	0.47
1:AL:182:PHE:HE2	1:AL:209:PHE:H	1.62	0.47
1:AN:53:VAL:HG12	1:AN:109:ILE:HG23	1.96	0.47
1:AN:129:PHE:CD1	1:AN:156:GLU:CB	2.98	0.47
1:AO:523:PHE:CE1	1:AO:545:TRP:CE2	3.02	0.47
1:B:182:PHE:HE2	1:B:209:PHE:H	1.62	0.47
1:C:755:THR:O	1:C:759:LEU:HB2	2.15	0.47
1:D:129:PHE:HZ	1:D:157:VAL:CG2	2.28	0.47
1:E:328:GLU:O	1:E:360:ARG:NH2	2.44	0.47
1:H:417:LYS:O	1:H:452:ARG:NH2	2.42	0.47
1:J:129:PHE:HZ	1:J:157:VAL:CG2	2.28	0.47
1:K:77:VAL:O	1:K:77:VAL:HG12	2.15	0.47
1:K:523:PHE:CZ	1:K:545:TRP:CG	3.03	0.47
1:L:122:HIS:NE2	1:L:142:GLU:OE1	2.44	0.47
1:N:459:SER:HB3	1:N:486:LEU:HD11	1.97	0.47
1:N:648:GLN:OE1	1:N:651:ARG:NH1	2.47	0.47
1:O:95:ASP:N	1:O:95:ASP:OD1	2.44	0.47
1:O:122:HIS:NE2	1:O:142:GLU:OE1	2.45	0.47
1:P:120:ALA:HB2	1:P:205:LEU:HD21	1.95	0.47
1:P:596:ALA:O	1:P:600:ARG:HB3	2.15	0.47
1:P:717:GLU:HB2	1:R:707:LEU:HD13	1.96	0.47
1:Q:77:VAL:O	1:Q:77:VAL:HG12	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:481:VAL:HG21	1:Q:487:VAL:HB	1.96	0.47
1:Q:523:PHE:CZ	1:Q:545:TRP:CG	3.03	0.47
1:Q:707:LEU:HD13	1:R:717:GLU:HB2	1.97	0.47
1:T:182:PHE:HE2	1:T:209:PHE:H	1.62	0.47
1:U:127:LEU:HB2	1:U:156:GLU:HB3	1.96	0.47
1:U:755:THR:O	1:U:759:LEU:HB2	2.15	0.47
1:W:37:ARG:NH1	1:W:38:GLN:O	2.47	0.47
1:W:523:PHE:CE1	1:W:545:TRP:CE2	3.02	0.47
1:W:707:LEU:HD13	1:X:717:GLU:HB2	1.97	0.47
1:Z:606:PHE:O	1:Z:623:ARG:NH1	2.48	0.47
1:a:120:ALA:HB2	1:a:205:LEU:HD21	1.97	0.47
1:a:127:LEU:HB2	1:a:156:GLU:HB3	1.96	0.47
1:b:182:PHE:HE2	1:b:209:PHE:H	1.63	0.47
1:d:17:HIS:NE2	1:d:99:LEU:O	2.38	0.47
1:f:459:SER:HB3	1:f:486:LEU:HD11	1.97	0.47
1:f:769:GLU:OE2	1:g:766:ARG:NH1	2.42	0.47
1:h:129:PHE:CD1	1:h:156:GLU:CB	2.98	0.47
1:h:179:ARG:HB2	1:h:209:PHE:HB3	1.95	0.47
1:i:523:PHE:CE1	1:i:545:TRP:CE2	3.02	0.47
1:k:219:VAL:HG11	1:k:227:LEU:HD13	1.96	0.47
1:l:66:VAL:HG22	1:l:84:ARG:HD3	1.96	0.47
1:l:531:THR:OG1	1:l:532:ALA:N	2.46	0.47
1:l:648:GLN:OE1	1:l:651:ARG:NH1	2.47	0.47
1:m:503:GLY:O	1:m:506:LYS:NZ	2.47	0.47
1:n:120:ALA:HB2	1:n:205:LEU:HD21	1.95	0.47
1:n:129:PHE:HZ	1:n:157:VAL:CG2	2.28	0.47
1:n:130:GLU:OE1	1:n:134:GLY:O	2.31	0.47
1:o:523:PHE:CZ	1:o:545:TRP:CG	3.03	0.47
1:o:812:VAL:HG11	1:p:813:ALA:O	2.15	0.47
1:q:124:ARG:NH1	1:q:142:GLU:OE2	2.48	0.47
1:r:648:GLN:OE1	1:r:651:ARG:NH1	2.47	0.47
1:s:503:GLY:O	1:s:506:LYS:NZ	2.47	0.47
1:t:129:PHE:HZ	1:t:157:VAL:CG2	2.28	0.47
1:t:625:ARG:NH1	1:t:636:SER:O	2.48	0.47
1:t:837:THR:HG1	1:z:839:VAL:HB	1.80	0.47
1:z:129:PHE:CD1	1:z:156:GLU:CB	2.98	0.47
1:z:625:ARG:NH1	1:z:636:SER:O	2.48	0.47
1:0:481:VAL:HG21	1:0:487:VAL:HB	1.96	0.47
1:0:812:VAL:HG11	1:1:813:ALA:O	2.15	0.47
1:2:175:ARG:NH1	1:2:195:GLU:OE1	2.44	0.47
1:3:648:GLN:OE1	1:3:651:ARG:NH1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:20:ASP:HA	1:5:41:GLU:HA	1.95	0.47
1:5:175:ARG:NH1	1:5:195:GLU:OE1	2.44	0.47
1:5:182:PHE:HE2	1:5:209:PHE:H	1.63	0.47
1:5:596:ALA:O	1:5:600:ARG:HB3	2.15	0.47
1:6:481:VAL:HG21	1:6:487:VAL:HB	1.96	0.47
1:7:503:GLY:O	1:7:506:LYS:NZ	2.47	0.47
1:9:648:GLN:OE1	1:9:651:ARG:NH1	2.48	0.47
1:AA:755:THR:O	1:AA:759:LEU:HB2	2.15	0.47
1:AB:27:ARG:NH1	1:AB:29:GLU:OE2	2.47	0.47
1:AB:596:ALA:O	1:AB:600:ARG:HB3	2.15	0.47
1:AC:468:VAL:HG12	1:AC:515:CYS:HA	1.96	0.47
1:AC:523:PHE:CE1	1:AC:545:TRP:CE2	3.02	0.47
1:AE:175:ARG:NH1	1:AE:195:GLU:OE1	2.44	0.47
1:AF:769:GLU:OE2	1:AG:766:ARG:NH1	2.42	0.47
1:AH:120:ALA:HB2	1:AH:205:LEU:HD21	1.95	0.47
1:AH:625:ARG:NH1	1:AH:636:SER:O	2.48	0.47
1:AI:338:GLN:HE21	1:AJ:279:GLN:HE21	1.60	0.47
1:AI:531:THR:OG1	1:AI:586:VAL:O	2.27	0.47
1:AI:707:LEU:HD13	1:AJ:717:GLU:HB2	1.97	0.47
1:AJ:579:VAL:O	1:AJ:583:VAL:HB	2.15	0.47
1:AK:124:ARG:NH1	1:AK:142:GLU:OE2	2.48	0.47
1:AO:77:VAL:O	1:AO:77:VAL:HG12	2.15	0.47
1:AO:481:VAL:HG21	1:AO:487:VAL:HB	1.96	0.47
1:AO:707:LEU:HD13	1:AP:717:GLU:HB2	1.97	0.47
1:AP:587:THR:OG1	1:AP:588:PHE:N	2.47	0.47
1:A:62:ALA:HB3	1:A:104:LEU:HB3	1.96	0.47
1:B:27:ARG:NH2	1:B:41:GLU:OE2	2.46	0.47
1:B:155:LYS:HE2	1:B:155:LYS:HB3	1.72	0.47
1:I:522:PHE:HA	1:I:543:TYR:O	2.15	0.47
1:J:596:ALA:O	1:J:600:ARG:HB3	2.15	0.47
1:K:37:ARG:NH1	1:K:38:GLN:O	2.47	0.47
1:K:812:VAL:HG12	1:L:814:GLY:HA2	1.95	0.47
1:L:579:VAL:O	1:L:583:VAL:HB	2.15	0.47
1:L:587:THR:OG1	1:L:588:PHE:N	2.47	0.47
1:M:124:ARG:NH1	1:M:142:GLU:OE2	2.48	0.47
1:O:755:THR:O	1:O:759:LEU:HB2	2.15	0.47
1:T:606:PHE:O	1:T:623:ARG:NH1	2.48	0.47
1:U:122:HIS:NE2	1:U:142:GLU:OE1	2.45	0.47
1:Y:124:ARG:NH1	1:Y:142:GLU:OE2	2.48	0.47
1:Z:20:ASP:HA	1:Z:41:GLU:HA	1.97	0.47
1:a:114:VAL:HA	1:a:150:THR:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:350:SER:O	1:a:350:SER:OG	2.31	0.47
1:b:129:PHE:HZ	1:b:157:VAL:CG2	2.28	0.47
1:e:124:ARG:NH1	1:e:142:GLU:OE2	2.48	0.47
1:e:219:VAL:HG11	1:e:227:LEU:HD13	1.96	0.47
1:g:114:VAL:HA	1:g:150:THR:HA	1.97	0.47
1:h:219:VAL:HG11	1:h:227:LEU:HD13	1.97	0.47
1:i:707:LEU:HD13	1:j:717:GLU:HB2	1.97	0.47
1:j:411:ASP:OD1	1:j:411:ASP:N	2.41	0.47
1:j:587:THR:OG1	1:j:588:PHE:N	2.47	0.47
1:l:606:PHE:O	1:l:623:ARG:NH1	2.48	0.47
1:x:531:THR:OG1	1:x:532:ALA:N	2.46	0.47
1:y:755:THR:O	1:y:759:LEU:HB2	2.15	0.47
1:2:124:ARG:NH1	1:2:142:GLU:OE2	2.48	0.47
1:9:606:PHE:O	1:9:623:ARG:NH1	2.48	0.47
1:AA:114:VAL:HA	1:AA:150:THR:HA	1.97	0.47
1:AB:625:ARG:NH1	1:AB:636:SER:O	2.48	0.47
1:AC:122:HIS:NE2	1:AC:142:GLU:OE1	2.44	0.47
1:AC:812:VAL:HG11	1:AD:813:ALA:O	2.15	0.47
1:AD:474:ARG:HB2	1:AD:492:GLU:HB2	1.96	0.47
1:A:219:VAL:HG11	1:A:227:LEU:HD13	1.96	0.47
1:A:595:SER:O	1:A:599:ILE:CG1	2.55	0.47
1:C:411:ASP:OD1	1:C:411:ASP:N	2.41	0.47
1:C:666:THR:HG22	1:G:657:SER:HB2	1.96	0.47
1:E:175:ARG:NH1	1:E:195:GLU:OE1	2.44	0.47
1:E:812:VAL:HG12	1:F:814:GLY:HA2	1.95	0.47
1:F:25:VAL:HG13	1:F:80:GLN:HG2	1.97	0.47
1:H:531:THR:OG1	1:H:532:ALA:N	2.46	0.47
1:J:717:GLU:HB2	1:L:707:LEU:HD13	1.96	0.47
1:K:707:LEU:HD13	1:L:717:GLU:HB2	1.97	0.47
1:N:20:ASP:HA	1:N:41:GLU:HA	1.97	0.47
1:O:127:LEU:HB2	1:O:156:GLU:HB3	1.97	0.47
1:Q:122:HIS:NE2	1:Q:142:GLU:OE1	2.44	0.47
1:R:579:VAL:O	1:R:583:VAL:HB	2.15	0.47
1:V:182:PHE:HE2	1:V:209:PHE:H	1.63	0.47
1:V:596:ALA:O	1:V:600:ARG:HB3	2.15	0.47
1:X:25:VAL:HG13	1:X:80:GLN:HG2	1.97	0.47
1:Y:411:ASP:OD1	1:Y:411:ASP:N	2.43	0.47
1:Z:182:PHE:HE2	1:Z:209:PHE:H	1.62	0.47
1:b:53:VAL:HG12	1:b:109:ILE:HG23	1.96	0.47
1:b:219:VAL:HG11	1:b:227:LEU:HD13	1.97	0.47
1:c:523:PHE:CE1	1:c:545:TRP:CE2	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:382:LEU:HD13	1:d:387:GLY:HA2	1.96	0.47
1:i:481:VAL:HG21	1:i:487:VAL:HB	1.96	0.47
1:m:382:LEU:HD13	1:m:387:GLY:HA2	1.95	0.47
1:n:27:ARG:NH1	1:n:29:GLU:OE2	2.47	0.47
1:n:129:PHE:CD1	1:n:156:GLU:CB	2.98	0.47
1:o:523:PHE:CE1	1:o:545:TRP:CE2	3.02	0.47
1:p:84:ARG:NH2	1:p:89:GLU:OE1	2.48	0.47
1:r:531:THR:OG1	1:r:532:ALA:N	2.46	0.47
1:t:596:ALA:O	1:t:600:ARG:HB3	2.15	0.47
1:v:382:LEU:HD13	1:v:387:GLY:HA2	1.96	0.47
1:y:522:PHE:HA	1:y:543:TYR:O	2.15	0.47
1:1:587:THR:OG1	1:1:588:PHE:N	2.47	0.47
1:2:595:SER:O	1:2:599:ILE:CG1	2.55	0.47
1:4:382:LEU:HD13	1:4:387:GLY:HA2	1.96	0.47
1:6:128:ASP:HB3	1:6:136:LYS:HZ1	1.80	0.47
1:6:175:ARG:NH1	1:6:195:GLU:OE1	2.44	0.47
1:AA:522:PHE:HA	1:AA:543:TYR:O	2.15	0.47
1:AE:219:VAL:HG11	1:AE:227:LEU:HD13	1.96	0.47
1:AE:411:ASP:OD1	1:AE:411:ASP:N	2.43	0.47
1:AG:114:VAL:HA	1:AG:150:THR:HA	1.97	0.47
1:AH:596:ALA:O	1:AH:600:ARG:HB3	2.15	0.47
1:AI:37:ARG:NH1	1:AI:38:GLN:O	2.47	0.47
1:AI:523:PHE:CE1	1:AI:545:TRP:CE2	3.02	0.47
1:AN:120:ALA:HB2	1:AN:205:LEU:HD21	1.95	0.47
1:AN:129:PHE:HZ	1:AN:157:VAL:CG2	2.28	0.47
1:AN:596:ALA:O	1:AN:600:ARG:HB3	2.15	0.47
1:B:822:LEU:HD13	1:C:842:PHE:CE1	2.50	0.47
1:D:717:GLU:HB2	1:F:707:LEU:HD13	1.96	0.47
1:E:219:VAL:HG11	1:E:227:LEU:HD13	1.96	0.47
1:E:523:PHE:CZ	1:E:545:TRP:CG	3.03	0.47
1:F:474:ARG:HB2	1:F:492:GLU:HB2	1.96	0.47
1:G:95:ASP:N	1:G:95:ASP:OD1	2.45	0.47
1:L:474:ARG:HB2	1:L:492:GLU:HB2	1.96	0.47
1:R:25:VAL:HG13	1:R:80:GLN:HG2	1.97	0.47
1:U:114:VAL:HA	1:U:150:THR:HA	1.97	0.47
1:V:129:PHE:HZ	1:V:157:VAL:CG2	2.28	0.47
1:X:84:ARG:NH2	1:X:89:GLU:OE1	2.48	0.47
1:X:587:THR:OG1	1:X:588:PHE:N	2.47	0.47
1:c:62:ALA:HB3	1:c:104:LEU:HB3	1.97	0.47
1:c:128:ASP:HB3	1:c:136:LYS:HZ1	1.80	0.47
1:c:707:LEU:HD13	1:d:717:GLU:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:25:VAL:HG13	1:d:80:GLN:HG2	1.97	0.47
1:f:648:GLN:OE1	1:f:651:ARG:NH1	2.47	0.47
1:m:120:ALA:HB2	1:m:205:LEU:HD21	1.97	0.47
1:r:606:PHE:O	1:r:623:ARG:NH1	2.48	0.47
1:r:822:LEU:HD13	1:s:842:PHE:CE1	2.50	0.47
1:s:120:ALA:HB2	1:s:205:LEU:HD21	1.97	0.47
1:t:129:PHE:CD1	1:t:156:GLU:CB	2.98	0.47
1:u:523:PHE:CE1	1:u:545:TRP:CE2	3.02	0.47
1:x:459:SER:HB3	1:x:486:LEU:HD11	1.97	0.47
1:y:127:LEU:HB2	1:y:156:GLU:HB3	1.96	0.47
1:0:17:HIS:NE2	1:0:99:LEU:O	2.35	0.47
1:1:417:LYS:O	1:1:452:ARG:NH2	2.42	0.47
1:3:175:ARG:NH1	1:3:195:GLU:OE1	2.44	0.47
1:6:411:ASP:OD1	1:6:411:ASP:N	2.44	0.47
1:6:523:PHE:CE1	1:6:545:TRP:CE2	3.02	0.47
1:AA:666:THR:HG22	1:AE:657:SER:HB2	1.96	0.47
1:AC:219:VAL:HG11	1:AC:227:LEU:HD13	1.96	0.47
1:AF:175:ARG:NH1	1:AF:195:GLU:OE1	2.44	0.47
1:AF:182:PHE:HE2	1:AF:209:PHE:H	1.62	0.47
1:AF:648:GLN:OE1	1:AF:651:ARG:NH1	2.47	0.47
1:AG:417:LYS:O	1:AG:452:ARG:NH2	2.42	0.47
1:AG:755:THR:O	1:AG:759:LEU:HB2	2.15	0.47
1:AI:77:VAL:O	1:AI:77:VAL:HG12	2.15	0.47
1:AM:503:GLY:O	1:AM:506:LYS:NZ	2.47	0.47
1:AM:522:PHE:HA	1:AM:543:TYR:O	2.15	0.47
1:A:95:ASP:OD1	1:A:95:ASP:N	2.45	0.46
1:B:606:PHE:O	1:B:623:ARG:NH1	2.48	0.46
1:F:84:ARG:NH2	1:F:89:GLU:OE1	2.48	0.46
1:F:382:LEU:HD13	1:F:387:GLY:HA2	1.97	0.46
1:F:417:LYS:O	1:F:452:ARG:NH2	2.42	0.46
1:I:9:ARG:HE	1:I:9:ARG:HB3	1.54	0.46
1:J:625:ARG:NH1	1:J:636:SER:O	2.48	0.46
1:L:84:ARG:NH2	1:L:89:GLU:OE1	2.48	0.46
1:L:382:LEU:HD13	1:L:387:GLY:HA2	1.96	0.46
1:N:796:LYS:HB3	1:N:796:LYS:HE3	1.44	0.46
1:R:84:ARG:NH2	1:R:89:GLU:OE1	2.48	0.46
1:W:481:VAL:HG21	1:W:487:VAL:HB	1.96	0.46
1:X:579:VAL:O	1:X:583:VAL:HB	2.15	0.46
1:Y:62:ALA:HB3	1:Y:104:LEU:HB3	1.96	0.46
1:Z:648:GLN:OE1	1:Z:651:ARG:NH1	2.47	0.46
1:a:755:THR:O	1:a:759:LEU:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:468:VAL:HG12	1:c:515:CYS:HA	1.96	0.46
1:f:606:PHE:O	1:f:623:ARG:NH1	2.48	0.46
1:g:127:LEU:HB2	1:g:156:GLU:HB3	1.97	0.46
1:g:350:SER:O	1:g:350:SER:OG	2.31	0.46
1:g:382:LEU:HD13	1:g:387:GLY:HA2	1.96	0.46
1:i:219:VAL:HG11	1:i:227:LEU:HD13	1.96	0.46
1:i:812:VAL:HG11	1:j:813:ALA:O	2.15	0.46
1:m:522:PHE:HA	1:m:543:TYR:O	2.15	0.46
1:n:179:ARG:HB2	1:n:209:PHE:HB3	1.95	0.46
1:n:822:LEU:HD13	1:p:842:PHE:CE1	2.51	0.46
1:o:77:VAL:HG12	1:o:77:VAL:O	2.15	0.46
1:p:25:VAL:HG13	1:p:80:GLN:HG2	1.97	0.46
1:r:459:SER:HB3	1:r:486:LEU:HD11	1.97	0.46
1:t:179:ARG:HB2	1:t:209:PHE:HB3	1.95	0.46
1:u:77:VAL:O	1:u:77:VAL:HG12	2.15	0.46
1:w:647:ASP:OD2	1:w:650:THR:OG1	2.29	0.46
1:x:606:PHE:O	1:x:623:ARG:NH1	2.48	0.46
1:y:474:ARG:HB2	1:y:492:GLU:HB2	1.98	0.46
1:z:129:PHE:HZ	1:z:157:VAL:CG2	2.28	0.46
1:z:596:ALA:O	1:z:600:ARG:HB3	2.15	0.46
1:0:62:ALA:HB3	1:0:104:LEU:HB3	1.98	0.46
1:0:523:PHE:CE1	1:0:545:TRP:CE2	3.02	0.46
1:6:707:LEU:HD13	1:7:717:GLU:HB2	1.97	0.46
1:9:841:LEU:HD12	1:AF:839:VAL:HG13	1.98	0.46
1:AF:822:LEU:HD13	1:AG:842:PHE:CE1	2.50	0.46
1:AM:755:THR:O	1:AM:759:LEU:HB2	2.15	0.46
1:AN:822:LEU:HD13	1:AP:842:PHE:CE1	2.51	0.46
1:C:522:PHE:HA	1:C:543:TYR:O	2.15	0.46
1:E:707:LEU:HD13	1:F:717:GLU:HB2	1.97	0.46
1:G:62:ALA:HB3	1:G:104:LEU:HB3	1.96	0.46
1:O:411:ASP:OD1	1:O:411:ASP:N	2.41	0.46
1:P:129:PHE:HZ	1:P:157:VAL:CG2	2.28	0.46
1:P:822:LEU:HD13	1:R:842:PHE:CE1	2.51	0.46
1:T:822:LEU:HD13	1:U:842:PHE:CE1	2.50	0.46
1:V:219:VAL:HG11	1:V:227:LEU:HD13	1.97	0.46
1:W:812:VAL:HG11	1:X:813:ALA:O	2.15	0.46
1:f:182:PHE:HE2	1:f:209:PHE:H	1.62	0.46
1:j:25:VAL:HG13	1:j:80:GLN:HG2	1.97	0.46
1:k:62:ALA:HB3	1:k:104:LEU:HB3	1.96	0.46
1:m:843:ASN:OD1	1:m:853:ALA:HB2	2.16	0.46
1:n:17:HIS:NE2	1:n:99:LEU:O	2.37	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:523:PHE:CZ	1:u:545:TRP:CG	3.03	0.46
1:u:707:LEU:HD13	1:v:717:GLU:HB2	1.97	0.46
1:w:128:ASP:HB3	1:w:136:LYS:HZ1	1.80	0.46
1:w:827:LEU:HD13	1:x:795:PHE:CD1	2.49	0.46
1:1:84:ARG:NH2	1:1:89:GLU:OE1	2.48	0.46
1:3:822:LEU:HD13	1:4:842:PHE:CE1	2.50	0.46
1:4:114:VAL:HA	1:4:150:THR:HA	1.97	0.46
1:4:474:ARG:HB2	1:4:492:GLU:HB2	1.98	0.46
1:6:417:LYS:O	1:6:452:ARG:NH2	2.42	0.46
1:6:523:PHE:CZ	1:6:545:TRP:CG	3.03	0.46
1:7:579:VAL:O	1:7:583:VAL:HB	2.15	0.46
1:9:822:LEU:HD13	1:AA:842:PHE:CE1	2.50	0.46
1:AA:122:HIS:NE2	1:AA:142:GLU:OE1	2.45	0.46
1:AB:822:LEU:HD13	1:AD:842:PHE:CE1	2.51	0.46
1:AE:124:ARG:NH1	1:AE:142:GLU:OE2	2.48	0.46
1:AE:128:ASP:HB3	1:AE:136:LYS:HZ1	1.80	0.46
1:AF:350:SER:O	1:AF:350:SER:OG	2.31	0.46
1:AG:127:LEU:HB2	1:AG:156:GLU:HB3	1.96	0.46
1:AK:175:ARG:NH1	1:AK:195:GLU:OE1	2.44	0.46
1:AL:648:GLN:OE1	1:AL:651:ARG:NH1	2.47	0.46
1:AN:175:ARG:NH1	1:AN:195:GLU:OE1	2.44	0.46
1:AP:25:VAL:HG13	1:AP:80:GLN:HG2	1.97	0.46
1:B:839:VAL:HG13	1:AL:841:LEU:HD12	1.98	0.46
1:D:596:ALA:O	1:D:600:ARG:HB3	2.15	0.46
1:H:841:LEU:HD12	1:N:839:VAL:HG13	1.98	0.46
1:K:468:VAL:HG12	1:K:515:CYS:HA	1.96	0.46
1:L:25:VAL:HG13	1:L:80:GLN:HG2	1.97	0.46
1:P:182:PHE:HE2	1:P:209:PHE:H	1.63	0.46
1:Q:468:VAL:HG12	1:Q:515:CYS:HA	1.96	0.46
1:R:843:ASN:OD1	1:R:853:ALA:HB2	2.16	0.46
1:S:95:ASP:OD1	1:S:95:ASP:N	2.45	0.46
1:T:459:SER:HB3	1:T:486:LEU:HD11	1.97	0.46
1:W:77:VAL:O	1:W:77:VAL:HG12	2.15	0.46
1:Z:459:SER:HB3	1:Z:486:LEU:HD11	1.97	0.46
1:Z:822:LEU:HD13	1:a:842:PHE:CE1	2.51	0.46
1:h:120:ALA:HB2	1:h:205:LEU:HD21	1.95	0.46
1:n:219:VAL:HG11	1:n:227:LEU:HD13	1.97	0.46
1:p:587:THR:OG1	1:p:588:PHE:N	2.47	0.46
1:r:66:VAL:HG22	1:r:84:ARG:HD3	1.96	0.46
1:s:474:ARG:HB2	1:s:492:GLU:HB2	1.98	0.46
1:s:843:ASN:OD1	1:s:853:ALA:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:822:LEU:HD13	1:v:842:PHE:CE1	2.51	0.46
1:u:481:VAL:HG21	1:u:487:VAL:HB	1.96	0.46
1:v:25:VAL:HG13	1:v:80:GLN:HG2	1.97	0.46
1:w:62:ALA:HB3	1:w:104:LEU:HB3	1.96	0.46
1:z:175:ARG:NH1	1:z:195:GLU:OE1	2.44	0.46
1:1:843:ASN:OD1	1:1:853:ALA:HB2	2.16	0.46
1:3:20:ASP:HA	1:3:41:GLU:HA	1.97	0.46
1:5:822:LEU:HD13	1:7:842:PHE:CE1	2.51	0.46
1:6:17:HIS:NE2	1:6:99:LEU:O	2.35	0.46
1:7:84:ARG:NH2	1:7:89:GLU:OE1	2.48	0.46
1:7:843:ASN:OD1	1:7:853:ALA:HB2	2.16	0.46
1:AC:77:VAL:O	1:AC:77:VAL:HG12	2.15	0.46
1:AC:707:LEU:HD13	1:AD:717:GLU:HB2	1.97	0.46
1:AD:382:LEU:HD13	1:AD:387:GLY:HA2	1.96	0.46
1:AI:481:VAL:HG21	1:AI:487:VAL:HB	1.96	0.46
1:AJ:474:ARG:HB2	1:AJ:492:GLU:HB2	1.96	0.46
1:AK:219:VAL:HG11	1:AK:227:LEU:HD13	1.96	0.46
1:AM:114:VAL:HA	1:AM:150:THR:HA	1.97	0.46
1:AM:127:LEU:HB2	1:AM:156:GLU:HB3	1.97	0.46
1:AO:523:PHE:CZ	1:AO:545:TRP:CG	3.03	0.46
1:AP:503:GLY:O	1:AP:506:LYS:NZ	2.47	0.46
1:E:468:VAL:HG12	1:E:515:CYS:HA	1.96	0.46
1:L:68:ASP:OD1	1:L:72:SER:N	2.49	0.46
1:N:531:THR:OG1	1:N:532:ALA:N	2.46	0.46
1:N:606:PHE:O	1:N:623:ARG:NH1	2.48	0.46
1:V:822:LEU:HD13	1:X:842:PHE:CE1	2.51	0.46
1:X:843:ASN:OD1	1:X:853:ALA:HB2	2.16	0.46
1:Y:17:HIS:NE2	1:Y:99:LEU:O	2.36	0.46
1:Y:827:LEU:HD13	1:Z:795:PHE:CD1	2.49	0.46
1:Z:165:ALA:HB2	1:Z:205:LEU:HD13	1.98	0.46
1:f:155:LYS:HE2	1:f:155:LYS:HB3	1.72	0.46
1:i:62:ALA:HB3	1:i:104:LEU:HB3	1.97	0.46
1:j:84:ARG:NH2	1:j:89:GLU:OE1	2.48	0.46
1:k:529:ILE:HG22	1:k:537:LEU:HB2	1.98	0.46
1:l:523:PHE:CE1	1:l:545:TRP:CE2	3.04	0.46
1:m:17:HIS:NE2	1:m:99:LEU:O	2.38	0.46
1:m:60:VAL:HA	1:m:89:GLU:O	2.16	0.46
1:n:596:ALA:O	1:n:600:ARG:HB3	2.15	0.46
1:o:707:LEU:HD13	1:p:717:GLU:HB2	1.97	0.46
1:p:579:VAL:O	1:p:583:VAL:HB	2.15	0.46
1:q:595:SER:O	1:q:599:ILE:CG1	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:647:ASP:OD2	1:q:650:THR:OG1	2.29	0.46
1:s:127:LEU:HB2	1:s:156:GLU:HB3	1.96	0.46
1:v:84:ARG:NH2	1:v:89:GLU:OE1	2.48	0.46
1:v:503:GLY:O	1:v:506:LYS:NZ	2.47	0.46
1:w:417:LYS:O	1:w:452:ARG:NH2	2.42	0.46
1:w:529:ILE:HG22	1:w:537:LEU:HB2	1.98	0.46
1:x:20:ASP:HA	1:x:41:GLU:HA	1.97	0.46
1:x:822:LEU:HD13	1:y:842:PHE:CE1	2.51	0.46
1:x:841:LEU:HD12	1:3:839:VAL:HG13	1.98	0.46
1:2:62:ALA:HB3	1:2:104:LEU:HB3	1.96	0.46
1:3:606:PHE:O	1:3:623:ARG:NH1	2.48	0.46
1:4:127:LEU:HB2	1:4:156:GLU:HB3	1.96	0.46
1:6:62:ALA:HB3	1:6:104:LEU:HB3	1.97	0.46
1:7:68:ASP:OD1	1:7:72:SER:N	2.49	0.46
1:9:625:ARG:NH1	1:9:636:SER:O	2.49	0.46
1:AB:182:PHE:HE2	1:AB:209:PHE:H	1.63	0.46
1:AC:523:PHE:CZ	1:AC:545:TRP:CG	3.03	0.46
1:AE:62:ALA:HB3	1:AE:104:LEU:HB3	1.96	0.46
1:AE:77:VAL:O	1:AE:77:VAL:HG12	2.16	0.46
1:AE:529:ILE:HG22	1:AE:537:LEU:HB2	1.98	0.46
1:AF:606:PHE:O	1:AF:623:ARG:NH1	2.48	0.46
1:AH:53:VAL:HG12	1:AH:109:ILE:HG23	1.96	0.46
1:AH:129:PHE:HZ	1:AH:157:VAL:CG2	2.28	0.46
1:AI:812:VAL:HG11	1:AJ:813:ALA:O	2.15	0.46
1:AJ:68:ASP:OD1	1:AJ:72:SER:N	2.49	0.46
1:AK:529:ILE:HG22	1:AK:537:LEU:HB2	1.98	0.46
1:AL:459:SER:HB3	1:AL:486:LEU:HD11	1.97	0.46
1:AM:120:ALA:HB2	1:AM:205:LEU:HD21	1.97	0.46
1:AP:474:ARG:HB2	1:AP:492:GLU:HB2	1.96	0.46
1:AP:579:VAL:O	1:AP:583:VAL:HB	2.15	0.46
1:AP:843:ASN:OD1	1:AP:853:ALA:HB2	2.16	0.46
1:B:523:PHE:CE1	1:B:545:TRP:CE2	3.04	0.46
1:C:843:ASN:OD1	1:C:853:ALA:HB2	2.16	0.46
1:H:20:ASP:HA	1:H:41:GLU:HA	1.97	0.46
1:I:127:LEU:HB2	1:I:156:GLU:HB3	1.96	0.46
1:L:843:ASN:OD1	1:L:853:ALA:HB2	2.16	0.46
1:N:130:GLU:HB2	1:N:136:LYS:HA	1.98	0.46
1:R:17:HIS:NE2	1:R:99:LEU:O	2.38	0.46
1:S:122:HIS:NE2	1:S:142:GLU:OE1	2.46	0.46
1:T:130:GLU:HB2	1:T:136:LYS:HA	1.98	0.46
1:b:596:ALA:O	1:b:600:ARG:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:417:LYS:O	1:e:452:ARG:NH2	2.42	0.46
1:f:523:PHE:CE1	1:f:545:TRP:CE2	3.04	0.46
1:g:120:ALA:HB2	1:g:205:LEU:HD21	1.97	0.46
1:j:114:VAL:HA	1:j:150:THR:HA	1.98	0.46
1:m:114:VAL:HA	1:m:150:THR:HA	1.97	0.46
1:q:529:ILE:HG22	1:q:537:LEU:HB2	1.98	0.46
1:s:131:ASP:C	1:s:133:ASN:H	2.24	0.46
1:u:62:ALA:HB3	1:u:104:LEU:HB3	1.98	0.46
1:u:812:VAL:HG11	1:v:813:ALA:O	2.15	0.46
1:w:175:ARG:NH1	1:w:195:GLU:OE1	2.44	0.46
1:y:843:ASN:OD1	1:y:853:ALA:HB2	2.16	0.46
1:z:822:LEU:HD13	1:1:842:PHE:CE1	2.50	0.46
1:0:60:VAL:HG22	1:0:107:LYS:HB3	1.98	0.46
1:0:587:THR:OG1	1:0:588:PHE:N	2.49	0.46
1:1:25:VAL:HG13	1:1:80:GLN:HG2	1.97	0.46
1:3:417:LYS:O	1:3:452:ARG:NH2	2.42	0.46
1:4:522:PHE:HA	1:4:543:TYR:O	2.15	0.46
1:8:529:ILE:HG22	1:8:537:LEU:HB2	1.98	0.46
1:9:20:ASP:HA	1:9:41:GLU:HA	1.97	0.46
1:9:60:VAL:HG23	1:9:106:GLU:HB2	1.98	0.46
1:AA:474:ARG:HB2	1:AA:492:GLU:HB2	1.98	0.46
1:AA:843:ASN:OD1	1:AA:853:ALA:HB2	2.16	0.46
1:AD:843:ASN:OD1	1:AD:853:ALA:HB2	2.16	0.46
1:AH:182:PHE:HE2	1:AH:209:PHE:H	1.63	0.46
1:AI:62:ALA:HB3	1:AI:104:LEU:HB3	1.98	0.46
1:AI:523:PHE:CZ	1:AI:545:TRP:CG	3.03	0.46
1:AL:606:PHE:O	1:AL:623:ARG:NH1	2.48	0.46
1:AN:219:VAL:HG11	1:AN:227:LEU:HD13	1.97	0.46
1:AP:68:ASP:OD1	1:AP:72:SER:N	2.49	0.46
1:AP:84:ARG:NH2	1:AP:89:GLU:OE1	2.48	0.46
1:A:529:ILE:HG22	1:A:537:LEU:HB2	1.98	0.46
1:A:647:ASP:OD2	1:A:650:THR:OG1	2.29	0.46
1:B:625:ARG:NH1	1:B:636:SER:O	2.49	0.46
1:B:841:LEU:HD12	1:H:839:VAL:HG13	1.98	0.46
1:C:127:LEU:HB2	1:C:156:GLU:HB3	1.96	0.46
1:D:219:VAL:HG11	1:D:227:LEU:HD13	1.97	0.46
1:I:503:GLY:O	1:I:506:LYS:NZ	2.47	0.46
1:I:755:THR:O	1:I:759:LEU:HB2	2.15	0.46
1:I:843:ASN:OD1	1:I:853:ALA:HB2	2.16	0.46
1:K:62:ALA:HB3	1:K:104:LEU:HB3	1.97	0.46
1:L:17:HIS:NE2	1:L:99:LEU:O	2.38	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:165:ALA:HB2	1:N:205:LEU:HD13	1.98	0.46
1:N:841:LEU:HD12	1:T:839:VAL:HG13	1.98	0.46
1:Q:531:THR:OG1	1:Q:586:VAL:O	2.27	0.46
1:R:503:GLY:O	1:R:506:LYS:NZ	2.47	0.46
1:T:841:LEU:HD12	1:Z:839:VAL:HG13	1.98	0.46
1:W:468:VAL:HG12	1:W:515:CYS:HA	1.96	0.46
1:Y:529:ILE:HG22	1:Y:537:LEU:HB2	1.98	0.46
1:e:62:ALA:HB3	1:e:104:LEU:HB3	1.96	0.46
1:g:843:ASN:OD1	1:g:853:ALA:HB2	2.16	0.46
1:h:417:LYS:O	1:h:452:ARG:NH2	2.43	0.46
1:k:77:VAL:O	1:k:77:VAL:HG12	2.16	0.46
1:m:127:LEU:HB2	1:m:156:GLU:HB3	1.96	0.46
1:m:747:LYS:O	1:m:751:LEU:HB2	2.16	0.46
1:p:114:VAL:HA	1:p:150:THR:HA	1.98	0.46
1:r:625:ARG:NH1	1:r:636:SER:O	2.49	0.46
1:s:155:LYS:HE3	1:s:155:LYS:HB3	1.88	0.46
1:u:60:VAL:HG22	1:u:107:LYS:HB3	1.98	0.46
1:y:60:VAL:HA	1:y:89:GLU:O	2.16	0.46
1:0:707:LEU:HD13	1:1:717:GLU:HB2	1.97	0.46
1:2:529:ILE:HG22	1:2:537:LEU:HB2	1.98	0.46
1:3:841:LEU:HD12	1:9:839:VAL:HG13	1.98	0.46
1:4:755:THR:O	1:4:759:LEU:HB2	2.15	0.46
1:6:60:VAL:HG22	1:6:107:LYS:HB3	1.98	0.46
1:7:25:VAL:HG13	1:7:80:GLN:HG2	1.97	0.46
1:8:124:ARG:NH1	1:8:142:GLU:OE2	2.48	0.46
1:AB:350:SER:O	1:AB:350:SER:OG	2.32	0.46
1:AD:25:VAL:HG13	1:AD:80:GLN:HG2	1.97	0.46
1:AJ:25:VAL:HG13	1:AJ:80:GLN:HG2	1.97	0.46
1:AL:523:PHE:CE1	1:AL:545:TRP:CE2	3.04	0.46
1:AL:822:LEU:HD13	1:AM:842:PHE:CE1	2.51	0.46
1:AO:468:VAL:HG12	1:AO:515:CYS:HA	1.96	0.46
1:A:77:VAL:HG12	1:A:77:VAL:O	2.16	0.46
1:A:657:SER:HB2	1:AM:666:THR:HG22	1.96	0.46
1:C:60:VAL:HA	1:C:89:GLU:O	2.16	0.46
1:C:120:ALA:HB2	1:C:205:LEU:HD21	1.97	0.46
1:D:822:LEU:HD13	1:F:842:PHE:CE1	2.51	0.46
1:E:727:GLU:HG3	1:F:735:ILE:HD13	1.98	0.46
1:H:459:SER:HB3	1:H:486:LEU:HD11	1.97	0.46
1:H:523:PHE:CE1	1:H:545:TRP:CE2	3.04	0.46
1:H:822:LEU:HD13	1:I:842:PHE:CE1	2.51	0.46
1:I:654:LEU:HD22	1:M:534:HIS:CD2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:60:VAL:HG23	1:N:106:GLU:HB2	1.98	0.46
1:O:114:VAL:HA	1:O:150:THR:HA	1.97	0.46
1:O:131:ASP:C	1:O:133:ASN:H	2.24	0.46
1:T:625:ARG:NH1	1:T:636:SER:O	2.49	0.46
1:U:120:ALA:HB2	1:U:205:LEU:HD21	1.97	0.46
1:U:522:PHE:HA	1:U:543:TYR:O	2.15	0.46
1:Z:769:GLU:OE2	1:a:766:ARG:NH1	2.42	0.46
1:Z:841:LEU:HD12	1:f:839:VAL:HG13	1.98	0.46
1:a:747:LYS:O	1:a:751:LEU:HB2	2.16	0.46
1:c:328:GLU:O	1:c:360:ARG:NH2	2.44	0.46
1:d:114:VAL:HA	1:d:150:THR:HA	1.98	0.46
1:e:77:VAL:O	1:e:77:VAL:HG12	2.16	0.46
1:g:755:THR:O	1:g:759:LEU:HB2	2.15	0.46
1:h:755:THR:HG21	1:o:761:ARG:HG2	1.98	0.46
1:l:130:GLU:HB2	1:l:136:LYS:HA	1.98	0.46
1:l:625:ARG:NH1	1:l:636:SER:O	2.49	0.46
1:m:131:ASP:C	1:m:133:ASN:H	2.24	0.46
1:m:474:ARG:HB2	1:m:492:GLU:HB2	1.98	0.46
1:q:62:ALA:HB3	1:q:104:LEU:HB3	1.96	0.46
1:s:755:THR:O	1:s:759:LEU:HB2	2.15	0.46
1:t:755:THR:HG21	1:0:761:ARG:HG2	1.98	0.46
1:v:155:LYS:HE3	1:v:155:LYS:HB3	1.88	0.46
1:w:77:VAL:O	1:w:77:VAL:HG12	2.16	0.46
1:y:46:ASP:N	1:y:46:ASP:OD1	2.49	0.46
1:0:77:VAL:O	1:0:77:VAL:HG12	2.15	0.46
1:0:523:PHE:CZ	1:0:545:TRP:CG	3.03	0.46
1:3:60:VAL:HG23	1:3:106:GLU:HB2	1.98	0.46
1:9:182:PHE:HE2	1:9:209:PHE:H	1.62	0.46
1:AF:459:SER:HB3	1:AF:486:LEU:HD11	1.97	0.46
1:AF:625:ARG:NH1	1:AF:636:SER:O	2.49	0.46
1:AG:120:ALA:HB2	1:AG:205:LEU:HD21	1.97	0.46
1:AI:219:VAL:HG11	1:AI:227:LEU:HD13	1.96	0.46
1:AI:587:THR:OG1	1:AI:588:PHE:N	2.49	0.46
1:AM:60:VAL:HA	1:AM:89:GLU:O	2.16	0.46
1:AM:843:ASN:OD1	1:AM:853:ALA:HB2	2.16	0.46
1:B:459:SER:HB3	1:B:486:LEU:HD11	1.97	0.46
1:C:114:VAL:HA	1:C:150:THR:HA	1.97	0.46
1:E:812:VAL:HG11	1:F:813:ALA:O	2.15	0.46
1:H:60:VAL:HG23	1:H:106:GLU:HB2	1.98	0.46
1:H:165:ALA:HB2	1:H:205:LEU:HD13	1.98	0.46
1:H:625:ARG:NH1	1:H:636:SER:O	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:46:ASP:N	1:I:46:ASP:OD1	2.49	0.46
1:I:131:ASP:C	1:I:133:ASN:H	2.24	0.46
1:J:755:THR:HG21	1:Q:761:ARG:HG2	1.98	0.46
1:O:120:ALA:HB2	1:O:205:LEU:HD21	1.97	0.46
1:P:350:SER:O	1:P:350:SER:OG	2.31	0.46
1:Q:60:VAL:HG22	1:Q:107:LYS:HB3	1.98	0.46
1:Q:587:THR:OG1	1:Q:588:PHE:N	2.49	0.46
1:S:77:VAL:O	1:S:77:VAL:HG12	2.16	0.46
1:U:747:LYS:O	1:U:751:LEU:HB2	2.16	0.46
1:V:503:GLY:O	1:V:506:LYS:NZ	2.49	0.46
1:V:755:THR:HG21	1:c:761:ARG:HG2	1.98	0.46
1:Z:523:PHE:CE1	1:Z:545:TRP:CE2	3.04	0.46
1:Z:625:ARG:NH1	1:Z:636:SER:O	2.49	0.46
1:c:481:VAL:HG21	1:c:487:VAL:HB	1.96	0.46
1:d:84:ARG:NH2	1:d:89:GLU:OE1	2.48	0.46
1:d:579:VAL:O	1:d:583:VAL:HB	2.15	0.46
1:e:529:ILE:HG22	1:e:537:LEU:HB2	1.98	0.46
1:f:20:ASP:HA	1:f:41:GLU:HA	1.97	0.46
1:f:165:ALA:HB2	1:f:205:LEU:HD13	1.98	0.46
1:g:122:HIS:NE2	1:g:142:GLU:OE1	2.45	0.46
1:i:587:THR:OG1	1:i:588:PHE:N	2.49	0.46
1:l:182:PHE:HE2	1:l:209:PHE:H	1.62	0.46
1:l:822:LEU:HD13	1:m:842:PHE:CE1	2.50	0.46
1:l:841:LEU:HD12	1:r:839:VAL:HG13	1.98	0.46
1:m:46:ASP:OD1	1:m:46:ASP:N	2.49	0.46
1:r:165:ALA:HB2	1:r:205:LEU:HD13	1.98	0.46
1:r:523:PHE:CE1	1:r:545:TRP:CE2	3.04	0.46
1:s:654:LEU:HD22	1:w:534:HIS:CD2	2.51	0.46
1:v:114:VAL:HA	1:v:150:THR:HA	1.98	0.46
1:v:579:VAL:O	1:v:583:VAL:HB	2.15	0.46
1:v:843:ASN:OD1	1:v:853:ALA:HB2	2.16	0.46
1:x:175:ARG:NH1	1:x:195:GLU:OE1	2.45	0.46
1:0:350:SER:O	1:0:350:SER:OG	2.31	0.46
1:2:474:ARG:NH1	1:2:475:GLU:OE1	2.49	0.46
1:4:9:ARG:HE	1:4:9:ARG:HB3	1.55	0.46
1:4:60:VAL:HA	1:4:89:GLU:O	2.16	0.46
1:4:654:LEU:HD22	1:8:534:HIS:CD2	2.51	0.46
1:4:747:LYS:O	1:4:751:LEU:HB2	2.16	0.46
1:5:129:PHE:HZ	1:5:157:VAL:CG2	2.28	0.46
1:AC:481:VAL:HG21	1:AC:487:VAL:HB	1.96	0.46
1:AD:84:ARG:NH2	1:AD:89:GLU:OE1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:175:ARG:NH1	1:AD:195:GLU:OE1	2.44	0.46
1:AF:20:ASP:HA	1:AF:41:GLU:HA	1.97	0.46
1:AF:60:VAL:HG23	1:AF:106:GLU:HB2	1.98	0.46
1:AF:841:LEU:HD12	1:AL:839:VAL:HG13	1.98	0.46
1:AG:666:THR:HG22	1:AK:657:SER:HB2	1.96	0.46
1:AG:747:LYS:O	1:AG:751:LEU:HB2	2.16	0.46
1:AH:219:VAL:HG11	1:AH:227:LEU:HD13	1.97	0.46
1:AL:165:ALA:HB2	1:AL:205:LEU:HD13	1.98	0.46
1:AL:175:ARG:NH1	1:AL:195:GLU:OE1	2.44	0.46
1:AL:625:ARG:NH1	1:AL:636:SER:O	2.49	0.46
1:AP:114:VAL:HA	1:AP:150:THR:HA	1.98	0.46
1:C:131:ASP:C	1:C:133:ASN:H	2.24	0.46
1:C:654:LEU:HD22	1:G:534:HIS:CD2	2.51	0.46
1:D:182:PHE:HE2	1:D:209:PHE:H	1.63	0.46
1:E:653:ALA:HB1	1:F:662:ILE:HD13	1.98	0.46
1:F:114:VAL:HA	1:F:150:THR:HA	1.98	0.46
1:I:120:ALA:HB2	1:I:205:LEU:HD21	1.97	0.46
1:I:122:HIS:NE2	1:I:142:GLU:OE1	2.45	0.46
1:J:182:PHE:HE2	1:J:209:PHE:H	1.63	0.46
1:J:822:LEU:HD13	1:L:842:PHE:CE1	2.51	0.46
1:K:60:VAL:HG22	1:K:107:LYS:HB3	1.98	0.46
1:K:587:THR:OG1	1:K:588:PHE:N	2.49	0.46
1:K:727:GLU:HG3	1:L:735:ILE:HD13	1.98	0.46
1:M:529:ILE:HG22	1:M:537:LEU:HB2	1.98	0.46
1:M:600:ARG:HE	1:M:600:ARG:HB2	1.65	0.46
1:N:625:ARG:NH1	1:N:636:SER:O	2.49	0.46
1:N:822:LEU:HD13	1:O:842:PHE:CE1	2.51	0.46
1:V:626:ALA:HB3	1:V:635:VAL:HB	1.98	0.46
1:W:62:ALA:HB3	1:W:104:LEU:HB3	1.98	0.46
1:W:122:HIS:NE2	1:W:142:GLU:OE1	2.44	0.46
1:Z:130:GLU:HB2	1:Z:136:LYS:HA	1.98	0.46
1:b:626:ALA:HB3	1:b:635:VAL:HB	1.98	0.46
1:c:812:VAL:HG11	1:d:813:ALA:O	2.15	0.46
1:d:843:ASN:OD1	1:d:853:ALA:HB2	2.16	0.46
1:f:822:LEU:HD13	1:g:842:PHE:CE1	2.51	0.46
1:f:841:LEU:HD12	1:l:839:VAL:HG13	1.98	0.46
1:h:626:ALA:HB3	1:h:635:VAL:HB	1.98	0.46
1:h:822:LEU:HD13	1:j:842:PHE:CE1	2.51	0.46
1:i:77:VAL:O	1:i:77:VAL:HG12	2.15	0.46
1:i:424:GLU:OE2	1:i:452:ARG:NH1	2.45	0.46
1:j:579:VAL:O	1:j:583:VAL:HB	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:360:ARG:HE	1:k:360:ARG:HB2	1.62	0.46
1:l:459:SER:HB3	1:l:486:LEU:HD11	1.97	0.46
1:n:755:THR:HG21	1:u:761:ARG:HG2	1.98	0.46
1:r:182:PHE:HE2	1:r:209:PHE:H	1.62	0.46
1:s:350:SER:O	1:s:350:SER:OG	2.30	0.46
1:t:795:PHE:CD1	1:0:827:LEU:CD1	2.99	0.46
1:u:587:THR:OG1	1:u:588:PHE:N	2.49	0.46
1:y:131:ASP:C	1:y:133:ASN:H	2.24	0.46
1:3:625:ARG:NH1	1:3:636:SER:O	2.49	0.46
1:3:769:GLU:OE2	1:4:766:ARG:NH1	2.42	0.46
1:4:843:ASN:OD1	1:4:853:ALA:HB2	2.16	0.46
1:6:587:THR:OG1	1:6:588:PHE:N	2.49	0.46
1:8:128:ASP:OD1	1:8:128:ASP:N	2.49	0.46
1:8:474:ARG:NH1	1:8:475:GLU:OE1	2.49	0.46
1:AB:503:GLY:O	1:AB:506:LYS:NZ	2.49	0.46
1:AH:822:LEU:HD13	1:AJ:842:PHE:CE1	2.51	0.46
1:AI:76:ASP:OD1	1:AI:78:THR:OG1	2.28	0.46
1:AI:653:ALA:HB1	1:AJ:662:ILE:HD13	1.98	0.46
1:AJ:84:ARG:NH2	1:AJ:89:GLU:OE1	2.48	0.46
1:AJ:175:ARG:NH1	1:AJ:195:GLU:OE1	2.44	0.46
1:AM:17:HIS:NE2	1:AM:99:LEU:O	2.37	0.46
1:AM:46:ASP:OD1	1:AM:46:ASP:N	2.49	0.46
1:AO:727:GLU:HG3	1:AP:735:ILE:HD13	1.98	0.46
1:A:534:HIS:CD2	1:AM:654:LEU:HD22	2.51	0.46
1:B:130:GLU:HB2	1:B:136:LYS:HA	1.98	0.46
1:E:827:LEU:CD1	1:AN:795:PHE:CD1	2.99	0.46
1:F:843:ASN:OD1	1:F:853:ALA:HB2	2.16	0.46
1:G:77:VAL:O	1:G:77:VAL:HG12	2.16	0.46
1:J:219:VAL:HG11	1:J:227:LEU:HD13	1.97	0.46
1:K:175:ARG:NH1	1:K:195:GLU:OE1	2.44	0.46
1:M:17:HIS:NE2	1:M:99:LEU:O	2.36	0.46
1:O:843:ASN:OD1	1:O:853:ALA:HB2	2.16	0.46
1:P:219:VAL:HG11	1:P:227:LEU:HD13	1.97	0.46
1:P:755:THR:HG21	1:W:761:ARG:HG2	1.98	0.46
1:Q:382:LEU:HD13	1:Q:387:GLY:HA2	1.98	0.46
1:T:60:VAL:HG23	1:T:106:GLU:HB2	1.98	0.46
1:W:587:THR:OG1	1:W:588:PHE:N	2.49	0.46
1:e:474:ARG:NH1	1:e:475:GLU:OE1	2.49	0.46
1:f:130:GLU:HB2	1:f:136:LYS:HA	1.98	0.46
1:g:25:VAL:HG13	1:g:80:GLN:HG2	1.98	0.46
1:n:795:PHE:CD1	1:u:827:LEU:CD1	2.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:60:VAL:HG22	1:o:107:LYS:HB3	1.98	0.46
1:r:20:ASP:HA	1:r:41:GLU:HA	1.97	0.46
1:r:841:LEU:HD12	1:x:839:VAL:HG13	1.98	0.46
1:s:523:PHE:O	1:s:542:ALA:HA	2.16	0.46
1:s:796:LYS:HE2	1:s:796:LYS:HB3	1.34	0.46
1:x:523:PHE:CE1	1:x:545:TRP:CE2	3.04	0.46
1:y:114:VAL:HA	1:y:150:THR:HA	1.97	0.46
1:y:523:PHE:O	1:y:542:ALA:HA	2.16	0.46
1:z:503:GLY:O	1:z:506:LYS:NZ	2.49	0.46
1:z:755:THR:HG21	1:6:761:ARG:HG2	1.98	0.46
1:z:795:PHE:CD1	1:6:827:LEU:CD1	2.99	0.46
1:0:175:ARG:NH1	1:0:195:GLU:OE1	2.44	0.46
1:4:350:SER:O	1:4:350:SER:OG	2.31	0.46
1:4:503:GLY:O	1:4:506:LYS:NZ	2.47	0.46
1:5:795:PHE:CD1	1:AC:827:LEU:CD1	2.99	0.46
1:8:62:ALA:HB3	1:8:104:LEU:HB3	1.96	0.46
1:8:411:ASP:OD1	1:8:411:ASP:N	2.43	0.46
1:AA:120:ALA:HB2	1:AA:205:LEU:HD21	1.97	0.46
1:AB:219:VAL:HG11	1:AB:227:LEU:HD13	1.97	0.46
1:AB:795:PHE:CD1	1:AI:827:LEU:CD1	2.99	0.46
1:AC:128:ASP:N	1:AC:128:ASP:OD1	2.49	0.46
1:AC:653:ALA:HB1	1:AD:662:ILE:HD13	1.98	0.46
1:AF:165:ALA:HB2	1:AF:205:LEU:HD13	1.98	0.46
1:AF:523:PHE:CE1	1:AF:545:TRP:CE2	3.04	0.46
1:AG:60:VAL:HA	1:AG:89:GLU:O	2.16	0.46
1:AH:795:PHE:CD1	1:AO:827:LEU:CD1	2.99	0.46
1:AI:155:LYS:HE3	1:AI:155:LYS:HB3	1.78	0.46
1:AI:468:VAL:HG12	1:AI:515:CYS:HA	1.96	0.46
1:AI:794:LYS:HZ1	1:AI:851:LEU:HD21	1.80	0.46
1:AJ:114:VAL:HA	1:AJ:150:THR:HA	1.98	0.46
1:AK:155:LYS:HB3	1:AK:155:LYS:HE3	1.77	0.46
1:AO:219:VAL:HG11	1:AO:227:LEU:HD13	1.96	0.46
1:A:417:LYS:O	1:A:452:ARG:NH2	2.42	0.45
1:E:587:THR:OG1	1:E:588:PHE:N	2.49	0.45
1:F:68:ASP:OD1	1:F:72:SER:N	2.49	0.45
1:G:529:ILE:HG22	1:G:537:LEU:HB2	1.98	0.45
1:I:60:VAL:HA	1:I:89:GLU:O	2.16	0.45
1:K:382:LEU:HD13	1:K:387:GLY:HA2	1.98	0.45
1:M:474:ARG:NH1	1:M:475:GLU:OE1	2.49	0.45
1:O:25:VAL:HG13	1:O:80:GLN:HG2	1.98	0.45
1:P:17:HIS:NE2	1:P:99:LEU:O	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:626:ALA:HB3	1:P:635:VAL:HB	1.98	0.45
1:Q:62:ALA:HB3	1:Q:104:LEU:HB3	1.97	0.45
1:R:155:LYS:HE3	1:R:155:LYS:HB3	1.88	0.45
1:S:529:ILE:HG22	1:S:537:LEU:HB2	1.98	0.45
1:U:654:LEU:HD22	1:Y:534:HIS:CD2	2.51	0.45
1:X:68:ASP:OD1	1:X:72:SER:N	2.49	0.45
1:b:459:SER:HB3	1:b:486:LEU:HD11	1.99	0.45
1:b:822:LEU:HD13	1:d:842:PHE:CE1	2.51	0.45
1:c:411:ASP:OD1	1:c:411:ASP:N	2.44	0.45
1:g:68:ASP:OD1	1:g:72:SER:N	2.50	0.45
1:j:503:GLY:O	1:j:506:LYS:NZ	2.47	0.45
1:m:25:VAL:HG13	1:m:80:GLN:HG2	1.99	0.45
1:n:626:ALA:HB3	1:n:635:VAL:HB	1.98	0.45
1:p:468:VAL:HG12	1:p:515:CYS:HA	1.98	0.45
1:r:130:GLU:HB2	1:r:136:LYS:HA	1.98	0.45
1:s:60:VAL:HA	1:s:89:GLU:O	2.16	0.45
1:v:468:VAL:HG12	1:v:515:CYS:HA	1.98	0.45
1:x:165:ALA:HB2	1:x:205:LEU:HD13	1.98	0.45
1:3:459:SER:HB3	1:3:486:LEU:HD11	1.97	0.45
1:5:755:THR:HG21	1:AC:761:ARG:HG2	1.98	0.45
1:6:653:ALA:HB1	1:7:662:ILE:HD13	1.98	0.45
1:6:812:VAL:HG11	1:7:813:ALA:O	2.15	0.45
1:7:175:ARG:NH1	1:7:195:GLU:OE1	2.44	0.45
1:AA:68:ASP:OD1	1:AA:72:SER:N	2.49	0.45
1:AA:127:LEU:HB2	1:AA:156:GLU:HB3	1.96	0.45
1:AC:411:ASP:OD1	1:AC:411:ASP:N	2.44	0.45
1:AD:579:VAL:O	1:AD:583:VAL:HB	2.15	0.45
1:AG:843:ASN:OD1	1:AG:853:ALA:HB2	2.16	0.45
1:AJ:843:ASN:OD1	1:AJ:853:ALA:HB2	2.16	0.45
1:AK:595:SER:O	1:AK:599:ILE:CG1	2.55	0.45
1:AM:747:LYS:O	1:AM:751:LEU:HB2	2.16	0.45
1:AO:62:ALA:HB3	1:AO:104:LEU:HB3	1.98	0.45
1:AO:653:ALA:HB1	1:AP:662:ILE:HD13	1.98	0.45
1:AO:812:VAL:HG11	1:AP:813:ALA:O	2.15	0.45
1:A:474:ARG:NH1	1:A:475:GLU:OE1	2.49	0.45
1:D:795:PHE:CD1	1:K:827:LEU:CD1	2.99	0.45
1:E:77:VAL:O	1:E:77:VAL:HG12	2.15	0.45
1:I:747:LYS:O	1:I:751:LEU:HB2	2.16	0.45
1:N:523:PHE:CE1	1:N:545:TRP:CE2	3.04	0.45
1:O:523:PHE:O	1:O:542:ALA:HA	2.16	0.45
1:P:459:SER:HB3	1:P:486:LEU:HD11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:812:VAL:HG11	1:R:813:ALA:O	2.15	0.45
1:U:131:ASP:C	1:U:133:ASN:H	2.24	0.45
1:U:350:SER:O	1:U:350:SER:OG	2.31	0.45
1:W:60:VAL:HG22	1:W:107:LYS:HB3	1.98	0.45
1:X:114:VAL:HA	1:X:150:THR:HA	1.98	0.45
1:c:587:THR:OG1	1:c:588:PHE:N	2.49	0.45
1:g:131:ASP:C	1:g:133:ASN:H	2.24	0.45
1:g:654:LEU:HD22	1:k:534:HIS:CD2	2.51	0.45
1:h:795:PHE:CD1	1:o:827:LEU:CD1	2.99	0.45
1:j:468:VAL:HG12	1:j:515:CYS:HA	1.98	0.45
1:k:474:ARG:NH1	1:k:475:GLU:OE1	2.49	0.45
1:m:523:PHE:O	1:m:542:ALA:HA	2.16	0.45
1:n:503:GLY:O	1:n:506:LYS:NZ	2.49	0.45
1:p:68:ASP:OD1	1:p:72:SER:N	2.49	0.45
1:s:130:GLU:O	1:s:130:GLU:CG	2.65	0.45
1:s:747:LYS:O	1:s:751:LEU:HB2	2.16	0.45
1:v:68:ASP:OD1	1:v:72:SER:N	2.49	0.45
1:w:474:ARG:NH1	1:w:475:GLU:OE1	2.49	0.45
1:w:595:SER:O	1:w:599:ILE:CG1	2.55	0.45
1:y:25:VAL:HG13	1:y:80:GLN:HG2	1.98	0.45
1:1:114:VAL:HA	1:1:150:THR:HA	1.98	0.45
1:2:77:VAL:O	1:2:77:VAL:HG12	2.16	0.45
1:4:175:ARG:NH1	1:4:195:GLU:OE1	2.45	0.45
1:7:587:THR:OG1	1:7:588:PHE:N	2.47	0.45
1:8:77:VAL:O	1:8:77:VAL:HG12	2.16	0.45
1:AB:129:PHE:HZ	1:AB:157:VAL:CG2	2.28	0.45
1:AC:60:VAL:HG22	1:AC:107:LYS:HB3	1.98	0.45
1:AD:68:ASP:OD1	1:AD:72:SER:N	2.49	0.45
1:AD:411:ASP:OD1	1:AD:411:ASP:N	2.41	0.45
1:AH:503:GLY:O	1:AH:506:LYS:NZ	2.49	0.45
1:AL:796:LYS:HE3	1:AL:796:LYS:HB3	1.44	0.45
1:AM:131:ASP:C	1:AM:133:ASN:H	2.24	0.45
1:AM:523:PHE:O	1:AM:542:ALA:HA	2.16	0.45
1:AN:182:PHE:HE2	1:AN:209:PHE:H	1.63	0.45
1:AO:128:ASP:OD1	1:AO:128:ASP:N	2.49	0.45
1:AO:587:THR:OG1	1:AO:588:PHE:N	2.49	0.45
1:C:46:ASP:N	1:C:46:ASP:OD1	2.49	0.45
1:C:122:HIS:NE2	1:C:142:GLU:OE1	2.45	0.45
1:C:747:LYS:O	1:C:751:LEU:HB2	2.16	0.45
1:D:755:THR:HG21	1:K:761:ARG:HG2	1.98	0.45
1:H:130:GLU:HB2	1:H:136:LYS:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:25:VAL:HG13	1:I:80:GLN:HG2	1.99	0.45
1:J:459:SER:HB3	1:J:486:LEU:HD11	1.98	0.45
1:L:114:VAL:HA	1:L:150:THR:HA	1.98	0.45
1:M:647:ASP:OD2	1:M:650:THR:OG1	2.29	0.45
1:U:523:PHE:O	1:U:542:ALA:HA	2.16	0.45
1:Y:474:ARG:NH1	1:Y:475:GLU:OE1	2.49	0.45
1:a:25:VAL:HG13	1:a:80:GLN:HG2	1.99	0.45
1:a:60:VAL:HA	1:a:89:GLU:O	2.16	0.45
1:a:843:ASN:OD1	1:a:853:ALA:HB2	2.16	0.45
1:b:755:THR:HG21	1:i:761:ARG:HG2	1.98	0.45
1:g:46:ASP:N	1:g:46:ASP:OD1	2.49	0.45
1:n:837:THR:HG1	1:t:839:VAL:HB	1.81	0.45
1:q:175:ARG:NH1	1:q:195:GLU:OE1	2.44	0.45
1:s:46:ASP:OD1	1:s:46:ASP:N	2.49	0.45
1:s:68:ASP:OD1	1:s:72:SER:N	2.50	0.45
1:s:114:VAL:HA	1:s:150:THR:HA	1.97	0.45
1:t:219:VAL:HG11	1:t:227:LEU:HD13	1.97	0.45
1:w:128:ASP:OD1	1:w:128:ASP:N	2.49	0.45
1:y:68:ASP:OD1	1:y:72:SER:N	2.49	0.45
1:y:747:LYS:O	1:y:751:LEU:HB2	2.16	0.45
1:1:68:ASP:OD1	1:1:72:SER:N	2.49	0.45
1:3:182:PHE:HE2	1:3:209:PHE:H	1.62	0.45
1:4:120:ALA:HB2	1:4:205:LEU:HD21	1.97	0.45
1:4:523:PHE:O	1:4:542:ALA:HA	2.16	0.45
1:5:219:VAL:HG11	1:5:227:LEU:HD13	1.97	0.45
1:7:9:ARG:HE	1:7:9:ARG:HB3	1.55	0.45
1:AA:654:LEU:HD22	1:AE:534:HIS:CD2	2.51	0.45
1:AD:17:HIS:NE2	1:AD:99:LEU:O	2.38	0.45
1:AE:474:ARG:NH1	1:AE:475:GLU:OE1	2.49	0.45
1:AM:68:ASP:OD1	1:AM:72:SER:N	2.50	0.45
1:A:128:ASP:N	1:A:128:ASP:OD1	2.49	0.45
1:C:68:ASP:OD1	1:C:72:SER:N	2.50	0.45
1:E:60:VAL:HG22	1:E:107:LYS:HB3	1.98	0.45
1:E:761:ARG:HG2	1:AN:755:THR:HG21	1.98	0.45
1:I:474:ARG:HB2	1:I:492:GLU:HB2	1.98	0.45
1:K:128:ASP:HB3	1:K:136:LYS:HZ1	1.81	0.45
1:K:653:ALA:HB1	1:L:662:ILE:HD13	1.98	0.45
1:O:474:ARG:HB2	1:O:492:GLU:HB2	1.98	0.45
1:Q:404:SER:OG	1:Q:405:THR:N	2.50	0.45
1:Q:653:ALA:HB1	1:R:662:ILE:HD13	1.98	0.45
1:Q:727:GLU:HG3	1:R:735:ILE:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:68:ASP:OD1	1:R:72:SER:N	2.49	0.45
1:U:46:ASP:OD1	1:U:46:ASP:N	2.49	0.45
1:W:382:LEU:HD13	1:W:387:GLY:HA2	1.98	0.45
1:d:68:ASP:OD1	1:d:72:SER:N	2.49	0.45
1:i:155:LYS:HE3	1:i:155:LYS:HB3	1.78	0.45
1:j:68:ASP:OD1	1:j:72:SER:N	2.49	0.45
1:l:20:ASP:HA	1:l:41:GLU:HA	1.97	0.45
1:t:175:ARG:NH1	1:t:195:GLU:OE1	2.44	0.45
1:t:626:ALA:HB3	1:t:635:VAL:HB	1.98	0.45
1:w:155:LYS:HE3	1:w:155:LYS:HB3	1.77	0.45
1:x:60:VAL:HG23	1:x:106:GLU:HB2	1.98	0.45
1:x:625:ARG:NH1	1:x:636:SER:O	2.49	0.45
1:0:382:LEU:HD13	1:0:387:GLY:HA2	1.98	0.45
1:1:579:VAL:O	1:1:583:VAL:HB	2.15	0.45
1:4:68:ASP:OD1	1:4:72:SER:N	2.50	0.45
1:4:131:ASP:C	1:4:133:ASN:H	2.24	0.45
1:AB:755:THR:HG21	1:AI:761:ARG:HG2	1.98	0.45
1:AC:62:ALA:HB3	1:AC:104:LEU:HB3	1.98	0.45
1:AG:175:ARG:NH1	1:AG:195:GLU:OE1	2.45	0.45
1:AG:474:ARG:HB2	1:AG:492:GLU:HB2	1.98	0.45
1:AG:709:LEU:HD13	1:AK:701:LYS:HG3	1.99	0.45
1:AJ:122:HIS:NE2	1:AJ:142:GLU:OE1	2.44	0.45
1:AK:122:HIS:NE2	1:AK:142:GLU:OE1	2.46	0.45
1:AK:128:ASP:OD1	1:AK:128:ASP:N	2.49	0.45
1:AL:20:ASP:HA	1:AL:41:GLU:HA	1.97	0.45
1:AL:130:GLU:HB2	1:AL:136:LYS:HA	1.98	0.45
1:AP:17:HIS:NE2	1:AP:99:LEU:O	2.38	0.45
1:A:175:ARG:NH1	1:A:195:GLU:OE1	2.44	0.45
1:C:130:GLU:O	1:C:130:GLU:CG	2.65	0.45
1:C:709:LEU:HD13	1:G:701:LYS:HG3	1.99	0.45
1:D:175:ARG:NH1	1:D:195:GLU:OE1	2.44	0.45
1:E:404:SER:OG	1:E:405:THR:N	2.50	0.45
1:I:114:VAL:HA	1:I:150:THR:HA	1.97	0.45
1:L:9:ARG:HE	1:L:9:ARG:HB3	1.55	0.45
1:P:481:VAL:HG21	1:P:487:VAL:HB	1.99	0.45
1:T:417:LYS:O	1:T:452:ARG:NH2	2.42	0.45
1:U:25:VAL:HG13	1:U:80:GLN:HG2	1.99	0.45
1:V:301:VAL:HG23	1:V:369:VAL:HG13	1.99	0.45
1:b:503:GLY:O	1:b:506:LYS:NZ	2.49	0.45
1:e:404:SER:OG	1:e:405:THR:N	2.50	0.45
1:f:417:LYS:O	1:f:452:ARG:NH2	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:474:ARG:HB2	1:g:492:GLU:HB2	1.98	0.45
1:h:301:VAL:HG23	1:h:369:VAL:HG13	1.99	0.45
1:h:481:VAL:HG21	1:h:487:VAL:HB	1.99	0.45
1:o:587:THR:OG1	1:o:588:PHE:N	2.49	0.45
1:p:843:ASN:OD1	1:p:853:ALA:HB2	2.16	0.45
1:s:709:LEU:HD13	1:w:701:LYS:HG3	1.99	0.45
1:x:130:GLU:HB2	1:x:136:LYS:HA	1.98	0.45
1:y:654:LEU:HD22	1:2:534:HIS:CD2	2.51	0.45
1:y:796:LYS:HB3	1:y:796:LYS:HE2	1.34	0.45
1:3:523:PHE:CE1	1:3:545:TRP:CE2	3.04	0.45
1:3:587:THR:OG1	1:3:588:PHE:N	2.50	0.45
1:4:46:ASP:N	1:4:46:ASP:OD1	2.49	0.45
1:6:128:ASP:OD1	1:6:128:ASP:N	2.49	0.45
1:9:459:SER:HB3	1:9:486:LEU:HD11	1.97	0.45
1:AA:130:GLU:O	1:AA:130:GLU:CG	2.65	0.45
1:AC:587:THR:OG1	1:AC:588:PHE:N	2.49	0.45
1:AD:114:VAL:HA	1:AD:150:THR:HA	1.98	0.45
1:AF:522:PHE:HA	1:AF:543:TYR:O	2.17	0.45
1:AF:796:LYS:HE3	1:AF:796:LYS:HB3	1.44	0.45
1:AH:755:THR:HG21	1:AO:761:ARG:HG2	1.98	0.45
1:AI:727:GLU:HG3	1:AJ:735:ILE:HD13	1.98	0.45
1:AL:587:THR:OG1	1:AL:588:PHE:N	2.50	0.45
1:AM:130:GLU:O	1:AM:130:GLU:CG	2.65	0.45
1:B:20:ASP:HA	1:B:41:GLU:HA	1.97	0.45
1:C:25:VAL:HG13	1:C:80:GLN:HG2	1.98	0.45
1:C:474:ARG:HB2	1:C:492:GLU:HB2	1.98	0.45
1:C:523:PHE:O	1:C:542:ALA:HA	2.16	0.45
1:D:301:VAL:HG23	1:D:369:VAL:HG13	1.99	0.45
1:I:523:PHE:O	1:I:542:ALA:HA	2.16	0.45
1:J:301:VAL:HG23	1:J:369:VAL:HG13	1.99	0.45
1:J:503:GLY:O	1:J:506:LYS:NZ	2.49	0.45
1:J:626:ALA:HB3	1:J:635:VAL:HB	1.98	0.45
1:J:795:PHE:CD1	1:Q:827:LEU:CD1	2.99	0.45
1:K:812:VAL:HG11	1:L:813:ALA:O	2.15	0.45
1:O:68:ASP:OD1	1:O:72:SER:N	2.50	0.45
1:O:130:GLU:O	1:O:130:GLU:CG	2.65	0.45
1:O:747:LYS:O	1:O:751:LEU:HB2	2.16	0.45
1:P:301:VAL:HG23	1:P:369:VAL:HG13	1.99	0.45
1:T:769:GLU:OE2	1:U:766:ARG:NH1	2.42	0.45
1:U:474:ARG:HB2	1:U:492:GLU:HB2	1.98	0.45
1:U:503:GLY:O	1:U:506:LYS:NZ	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:831:LEU:HD11	1:d:832:ILE:CD1	2.47	0.45
1:Y:128:ASP:N	1:Y:128:ASP:OD1	2.49	0.45
1:Y:301:VAL:HG23	1:Y:369:VAL:HG13	1.99	0.45
1:Y:523:PHE:CZ	1:Y:545:TRP:CG	3.05	0.45
1:Z:60:VAL:HG23	1:Z:106:GLU:HB2	1.98	0.45
1:b:301:VAL:HG23	1:b:369:VAL:HG13	1.99	0.45
1:e:411:ASP:OD1	1:e:411:ASP:N	2.43	0.45
1:e:523:PHE:CZ	1:e:545:TRP:CG	3.05	0.45
1:f:587:THR:OG1	1:f:588:PHE:N	2.50	0.45
1:g:130:GLU:O	1:g:130:GLU:CG	2.65	0.45
1:h:459:SER:HB3	1:h:486:LEU:HD11	1.98	0.45
1:i:60:VAL:HG22	1:i:107:LYS:HB3	1.98	0.45
1:j:843:ASN:OD1	1:j:853:ALA:HB2	2.16	0.45
1:k:301:VAL:HG23	1:k:369:VAL:HG13	1.99	0.45
1:l:165:ALA:HB2	1:l:205:LEU:HD13	1.98	0.45
1:l:350:SER:O	1:l:350:SER:OG	2.31	0.45
1:m:709:LEU:HD13	1:q:701:LYS:HG3	1.99	0.45
1:n:831:LEU:HD11	1:v:832:ILE:CD1	2.47	0.45
1:o:62:ALA:HB3	1:o:104:LEU:HB3	1.97	0.45
1:o:727:GLU:HG3	1:p:735:ILE:HD13	1.98	0.45
1:r:587:THR:OG1	1:r:588:PHE:N	2.50	0.45
1:s:25:VAL:HG13	1:s:80:GLN:HG2	1.99	0.45
1:x:522:PHE:HA	1:x:543:TYR:O	2.17	0.45
1:y:120:ALA:HB2	1:y:205:LEU:HD21	1.97	0.45
1:0:653:ALA:HB1	1:1:662:ILE:HD13	1.98	0.45
1:1:122:HIS:NE2	1:1:142:GLU:OE1	2.44	0.45
1:1:468:VAL:HG12	1:1:515:CYS:HA	1.98	0.45
1:4:709:LEU:HD13	1:8:701:LYS:HG3	1.99	0.45
1:8:404:SER:OG	1:8:405:THR:N	2.50	0.45
1:9:523:PHE:CE1	1:9:545:TRP:CE2	3.04	0.45
1:AA:747:LYS:O	1:AA:751:LEU:HB2	2.16	0.45
1:AE:128:ASP:OD1	1:AE:128:ASP:N	2.49	0.45
1:AG:131:ASP:C	1:AG:133:ASN:H	2.24	0.45
1:AK:77:VAL:O	1:AK:77:VAL:HG12	2.16	0.45
1:AL:60:VAL:HG23	1:AL:106:GLU:HB2	1.98	0.45
1:AL:522:PHE:HA	1:AL:543:TYR:O	2.17	0.45
1:AN:17:HIS:NE2	1:AN:99:LEU:O	2.37	0.45
1:AP:175:ARG:NH1	1:AP:195:GLU:OE1	2.44	0.45
1:B:60:VAL:HG23	1:B:106:GLU:HB2	1.98	0.45
1:D:176:LEU:O	1:D:195:GLU:HA	2.17	0.45
1:E:62:ALA:HB3	1:E:104:LEU:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:382:LEU:HD13	1:J:387:GLY:HA2	1.99	0.45
1:M:301:VAL:HG23	1:M:369:VAL:HG13	1.99	0.45
1:N:587:THR:OG1	1:N:588:PHE:N	2.50	0.45
1:O:60:VAL:HA	1:O:89:GLU:O	2.16	0.45
1:P:831:LEU:HD11	1:X:832:ILE:CD1	2.47	0.45
1:Q:155:LYS:HE3	1:Q:155:LYS:HB3	1.78	0.45
1:U:17:HIS:NE2	1:U:99:LEU:O	2.37	0.45
1:U:843:ASN:OD1	1:U:853:ALA:HB2	2.16	0.45
1:W:128:ASP:OD1	1:W:128:ASP:N	2.49	0.45
1:Y:77:VAL:O	1:Y:77:VAL:HG12	2.16	0.45
1:a:46:ASP:N	1:a:46:ASP:OD1	2.49	0.45
1:c:382:LEU:HD13	1:c:387:GLY:HA2	1.98	0.45
1:e:301:VAL:HG23	1:e:369:VAL:HG13	1.99	0.45
1:g:60:VAL:HA	1:g:89:GLU:O	2.16	0.45
1:g:747:LYS:O	1:g:751:LEU:HB2	2.16	0.45
1:i:128:ASP:OD1	1:i:128:ASP:N	2.49	0.45
1:i:727:GLU:HG3	1:j:735:ILE:HD13	1.98	0.45
1:k:523:PHE:CZ	1:k:545:TRP:CG	3.05	0.45
1:m:155:LYS:HE3	1:m:155:LYS:HB3	1.88	0.45
1:m:654:LEU:HD22	1:q:534:HIS:CD2	2.51	0.45
1:p:417:LYS:O	1:p:452:ARG:NH2	2.42	0.45
1:q:382:LEU:HD13	1:q:387:GLY:HA2	1.99	0.45
1:t:459:SER:HB3	1:t:486:LEU:HD11	1.98	0.45
1:t:831:LEU:HD11	1:1:832:ILE:CD1	2.47	0.45
1:w:404:SER:OG	1:w:405:THR:N	2.50	0.45
1:y:709:LEU:HD13	1:2:701:LYS:HG3	1.99	0.45
1:z:219:VAL:HG11	1:z:227:LEU:HD13	1.97	0.45
1:4:25:VAL:HG13	1:4:80:GLN:HG2	1.99	0.45
1:6:122:HIS:NE2	1:6:142:GLU:OE1	2.44	0.45
1:7:114:VAL:HA	1:7:150:THR:HA	1.98	0.45
1:AA:25:VAL:HG13	1:AA:80:GLN:HG2	1.98	0.45
1:AA:60:VAL:HA	1:AA:89:GLU:O	2.16	0.45
1:AB:176:LEU:O	1:AB:195:GLU:HA	2.17	0.45
1:AB:417:LYS:O	1:AB:452:ARG:NH2	2.42	0.45
1:AF:130:GLU:HB2	1:AF:136:LYS:HA	1.98	0.45
1:AG:523:PHE:O	1:AG:542:ALA:HA	2.16	0.45
1:AG:654:LEU:HD22	1:AK:534:HIS:CD2	2.51	0.45
1:AL:769:GLU:OE2	1:AM:766:ARG:NH1	2.42	0.45
1:AM:25:VAL:HG13	1:AM:80:GLN:HG2	1.99	0.45
1:A:701:LYS:HG3	1:AM:709:LEU:HD13	1.99	0.45
1:B:165:ALA:HB2	1:B:205:LEU:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:128:ASP:OD1	1:E:128:ASP:N	2.49	0.45
1:H:522:PHE:HA	1:H:543:TYR:O	2.17	0.45
1:K:122:HIS:NE2	1:K:142:GLU:OE1	2.44	0.45
1:N:522:PHE:HA	1:N:543:TYR:O	2.17	0.45
1:O:46:ASP:N	1:O:46:ASP:OD1	2.49	0.45
1:O:709:LEU:HD13	1:S:701:LYS:HG3	1.99	0.45
1:P:382:LEU:HD13	1:P:387:GLY:HA2	1.99	0.45
1:S:474:ARG:NH1	1:S:475:GLU:OE1	2.49	0.45
1:S:523:PHE:CZ	1:S:545:TRP:CG	3.05	0.45
1:W:653:ALA:HB1	1:X:662:ILE:HD13	1.98	0.45
1:a:130:GLU:O	1:a:130:GLU:CG	2.65	0.45
1:a:523:PHE:O	1:a:542:ALA:HA	2.16	0.45
1:c:404:SER:OG	1:c:405:THR:N	2.50	0.45
1:d:468:VAL:HG12	1:d:515:CYS:HA	1.98	0.45
1:f:625:ARG:NH1	1:f:636:SER:O	2.49	0.45
1:f:796:LYS:HE3	1:f:796:LYS:HB3	1.44	0.45
1:g:709:LEU:HD13	1:k:701:LYS:HG3	1.99	0.45
1:h:831:LEU:HD11	1:p:832:ILE:CD1	2.47	0.45
1:q:404:SER:OG	1:q:405:THR:N	2.50	0.45
1:t:301:VAL:HG23	1:t:369:VAL:HG13	1.99	0.45
1:u:653:ALA:HB1	1:v:662:ILE:HD13	1.98	0.45
1:x:182:PHE:HE2	1:x:209:PHE:H	1.62	0.45
1:x:796:LYS:HB3	1:x:796:LYS:HE3	1.44	0.45
1:y:130:GLU:O	1:y:130:GLU:CG	2.65	0.45
1:z:176:LEU:O	1:z:195:GLU:HA	2.17	0.45
1:z:831:LEU:HD11	1:7:832:ILE:CD1	2.47	0.45
1:1:503:GLY:O	1:1:506:LYS:NZ	2.47	0.45
1:3:130:GLU:HB2	1:3:136:LYS:HA	1.98	0.45
1:3:522:PHE:HA	1:3:543:TYR:O	2.17	0.45
1:AA:46:ASP:N	1:AA:46:ASP:OD1	2.49	0.45
1:AB:831:LEU:HD11	1:AJ:832:ILE:CD1	2.47	0.45
1:AC:382:LEU:HD13	1:AC:387:GLY:HA2	1.98	0.45
1:AC:404:SER:OG	1:AC:405:THR:N	2.50	0.45
1:AG:68:ASP:OD1	1:AG:72:SER:N	2.50	0.45
1:AG:291:ASP:OD1	1:AG:291:ASP:N	2.43	0.45
1:AG:411:ASP:OD1	1:AG:411:ASP:N	2.41	0.45
1:AH:626:ALA:HB3	1:AH:635:VAL:HB	1.98	0.45
1:AO:404:SER:OG	1:AO:405:THR:N	2.50	0.45
1:B:796:LYS:HE3	1:B:796:LYS:HB3	1.44	0.45
1:C:128:ASP:OD1	1:C:138:VAL:HA	2.17	0.45
1:C:417:LYS:O	1:C:452:ARG:NH2	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:382:LEU:HD13	1:E:387:GLY:HA2	1.98	0.45
1:I:709:LEU:HD13	1:M:701:LYS:HG3	1.99	0.45
1:I:796:LYS:HB3	1:I:796:LYS:HE2	1.34	0.45
1:S:301:VAL:HG23	1:S:369:VAL:HG13	1.99	0.45
1:T:587:THR:OG1	1:T:588:PHE:N	2.50	0.45
1:U:60:VAL:HA	1:U:89:GLU:O	2.16	0.45
1:U:68:ASP:OD1	1:U:72:SER:N	2.50	0.45
1:W:424:GLU:OE2	1:W:452:ARG:NH1	2.45	0.45
1:Y:424:GLU:OE2	1:Y:452:ARG:NH1	2.45	0.45
1:a:474:ARG:HB2	1:a:492:GLU:HB2	1.98	0.45
1:a:709:LEU:HD13	1:e:701:LYS:HG3	1.99	0.45
1:b:795:PHE:CD1	1:i:827:LEU:CD1	2.99	0.45
1:b:831:LEU:HD11	1:j:832:ILE:CD1	2.47	0.45
1:e:827:LEU:HD13	1:f:795:PHE:CD1	2.49	0.45
1:g:523:PHE:O	1:g:542:ALA:HA	2.16	0.45
1:m:128:ASP:OD1	1:m:138:VAL:HA	2.17	0.45
1:n:301:VAL:HG23	1:n:369:VAL:HG13	1.99	0.45
1:p:129:PHE:CD2	1:p:156:GLU:HB3	2.38	0.45
1:q:77:VAL:O	1:q:77:VAL:HG12	2.16	0.45
1:q:301:VAL:HG23	1:q:369:VAL:HG13	1.99	0.45
1:q:523:PHE:CZ	1:q:545:TRP:CG	3.05	0.45
1:r:175:ARG:NH1	1:r:195:GLU:OE1	2.44	0.45
1:t:176:LEU:O	1:t:195:GLU:HA	2.17	0.45
1:u:128:ASP:OD1	1:u:128:ASP:N	2.49	0.45
1:u:417:LYS:O	1:u:452:ARG:NH2	2.42	0.45
1:u:727:GLU:HG3	1:v:735:ILE:HD13	1.98	0.45
1:y:128:ASP:OD1	1:y:138:VAL:HA	2.17	0.45
1:y:175:ARG:NH1	1:y:195:GLU:OE1	2.45	0.45
1:y:417:LYS:O	1:y:452:ARG:NH2	2.42	0.45
1:1:175:ARG:NH1	1:1:195:GLU:OE1	2.44	0.45
1:5:831:LEU:HD11	1:AD:832:ILE:CD1	2.47	0.45
1:8:128:ASP:HB3	1:8:136:LYS:HZ1	1.82	0.45
1:9:165:ALA:HB2	1:9:205:LEU:HD13	1.98	0.45
1:AA:709:LEU:HD13	1:AE:701:LYS:HG3	1.99	0.45
1:AB:626:ALA:HB3	1:AB:635:VAL:HB	1.98	0.45
1:AH:176:LEU:O	1:AH:195:GLU:HA	2.17	0.45
1:AK:474:ARG:NH1	1:AK:475:GLU:OE1	2.49	0.45
1:AN:459:SER:HB3	1:AN:486:LEU:HD11	1.98	0.45
1:A:122:HIS:NE2	1:A:142:GLU:OE1	2.46	0.45
1:B:175:ARG:NH1	1:B:195:GLU:OE1	2.44	0.45
1:C:796:LYS:HB3	1:C:796:LYS:HE2	1.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:481:VAL:HG21	1:D:487:VAL:HB	1.99	0.45
1:F:9:ARG:HE	1:F:9:ARG:HB3	1.55	0.45
1:G:301:VAL:HG23	1:G:369:VAL:HG13	1.99	0.45
1:M:77:VAL:O	1:M:77:VAL:HG12	2.16	0.45
1:M:128:ASP:OD1	1:M:128:ASP:N	2.49	0.45
1:O:654:LEU:HD22	1:S:534:HIS:CD2	2.51	0.45
1:Q:417:LYS:O	1:Q:452:ARG:NH2	2.42	0.45
1:R:120:ALA:HB2	1:R:205:LEU:HD21	1.99	0.45
1:T:523:PHE:CE1	1:T:545:TRP:CE2	3.04	0.45
1:V:481:VAL:HG21	1:V:487:VAL:HB	1.99	0.45
1:a:68:ASP:OD1	1:a:72:SER:N	2.50	0.45
1:a:131:ASP:C	1:a:133:ASN:H	2.24	0.45
1:c:60:VAL:HG22	1:c:107:LYS:HB3	1.98	0.45
1:f:522:PHE:HA	1:f:543:TYR:O	2.17	0.45
1:l:522:PHE:HA	1:l:543:TYR:O	2.17	0.45
1:m:68:ASP:OD1	1:m:72:SER:N	2.50	0.45
1:n:459:SER:HB3	1:n:486:LEU:HD11	1.98	0.45
1:o:176:LEU:O	1:o:195:GLU:HA	2.17	0.45
1:q:128:ASP:OD1	1:q:128:ASP:N	2.49	0.45
1:q:474:ARG:NH1	1:q:475:GLU:OE1	2.49	0.45
1:u:176:LEU:O	1:u:195:GLU:HA	2.17	0.45
1:w:382:LEU:HD13	1:w:387:GLY:HA2	1.99	0.45
1:z:626:ALA:HB3	1:z:635:VAL:HB	1.98	0.45
1:0:128:ASP:OD1	1:0:128:ASP:N	2.49	0.45
1:0:176:LEU:O	1:0:195:GLU:HA	2.17	0.45
1:1:129:PHE:CD2	1:1:156:GLU:HB3	2.38	0.45
1:5:626:ALA:HB3	1:5:635:VAL:HB	1.98	0.45
1:9:130:GLU:HB2	1:9:136:LYS:HA	1.98	0.45
1:AA:523:PHE:O	1:AA:542:ALA:HA	2.16	0.45
1:AI:404:SER:OG	1:AI:405:THR:N	2.50	0.45
1:AM:384:GLU:HA	1:AM:403:GLY:HA2	1.99	0.45
1:AN:301:VAL:HG23	1:AN:369:VAL:HG13	1.99	0.45
1:AO:60:VAL:HG22	1:AO:107:LYS:HB3	1.98	0.45
1:AO:176:LEU:O	1:AO:195:GLU:HA	2.17	0.45
1:A:301:VAL:HG23	1:A:369:VAL:HG13	1.99	0.44
1:C:384:GLU:HA	1:C:403:GLY:HA2	1.99	0.44
1:J:769:GLU:OE2	1:L:766:ARG:NH1	2.39	0.44
1:M:155:LYS:HE3	1:M:155:LYS:HB3	1.77	0.44
1:Q:175:ARG:NH1	1:Q:195:GLU:OE1	2.44	0.44
1:R:9:ARG:HE	1:R:9:ARG:HB3	1.55	0.44
1:T:165:ALA:HB2	1:T:205:LEU:HD13	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:709:LEU:HD13	1:Y:701:LYS:HG3	1.99	0.44
1:V:382:LEU:HD13	1:V:387:GLY:HA2	1.99	0.44
1:Y:647:ASP:OD2	1:Y:650:THR:OG1	2.29	0.44
1:Z:522:PHE:HA	1:Z:543:TYR:O	2.17	0.44
1:Z:587:THR:OG1	1:Z:588:PHE:N	2.50	0.44
1:a:128:ASP:OD1	1:a:138:VAL:HA	2.17	0.44
1:a:411:ASP:OD1	1:a:411:ASP:N	2.41	0.44
1:a:796:LYS:HB3	1:a:796:LYS:HE2	1.34	0.44
1:c:727:GLU:HG3	1:d:735:ILE:HD13	1.98	0.44
1:d:120:ALA:HB2	1:d:205:LEU:HD21	1.99	0.44
1:e:382:LEU:HD13	1:e:387:GLY:HA2	1.99	0.44
1:h:176:LEU:O	1:h:195:GLU:HA	2.17	0.44
1:k:382:LEU:HD13	1:k:387:GLY:HA2	1.99	0.44
1:k:404:SER:OG	1:k:405:THR:N	2.50	0.44
1:l:382:LEU:HD13	1:l:387:GLY:HA2	1.99	0.44
1:m:122:HIS:NE2	1:m:142:GLU:OE1	2.45	0.44
1:o:350:SER:O	1:o:350:SER:OG	2.31	0.44
1:r:382:LEU:HD13	1:r:387:GLY:HA2	1.99	0.44
1:s:384:GLU:HA	1:s:403:GLY:HA2	2.00	0.44
1:t:481:VAL:HG21	1:t:487:VAL:HB	1.99	0.44
1:u:382:LEU:HD13	1:u:387:GLY:HA2	1.98	0.44
1:w:301:VAL:HG23	1:w:369:VAL:HG13	1.99	0.44
1:w:523:PHE:CZ	1:w:545:TRP:CG	3.05	0.44
1:y:384:GLU:HA	1:y:403:GLY:HA2	1.99	0.44
1:2:128:ASP:OD1	1:2:128:ASP:N	2.49	0.44
1:3:165:ALA:HB2	1:3:205:LEU:HD13	1.98	0.44
1:5:503:GLY:O	1:5:506:LYS:NZ	2.49	0.44
1:6:176:LEU:O	1:6:195:GLU:HA	2.17	0.44
1:AA:131:ASP:C	1:AA:133:ASN:H	2.24	0.44
1:AE:523:PHE:CZ	1:AE:545:TRP:CG	3.05	0.44
1:AF:587:THR:OG1	1:AF:588:PHE:N	2.50	0.44
1:AG:46:ASP:N	1:AG:46:ASP:OD1	2.49	0.44
1:AH:459:SER:HB3	1:AH:486:LEU:HD11	1.98	0.44
1:AK:523:PHE:CZ	1:AK:545:TRP:CG	3.05	0.44
1:AK:827:LEU:HD22	1:AL:795:PHE:CD1	2.50	0.44
1:AO:382:LEU:HD13	1:AO:387:GLY:HA2	1.98	0.44
1:A:523:PHE:CZ	1:A:545:TRP:CG	3.05	0.44
1:A:827:LEU:HD22	1:B:795:PHE:CD1	2.50	0.44
1:B:130:GLU:OE1	1:B:136:LYS:HB3	2.18	0.44
1:B:522:PHE:HA	1:B:543:TYR:O	2.17	0.44
1:G:587:THR:OG1	1:G:588:PHE:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:600:ARG:HE	1:G:600:ARG:HB2	1.65	0.44
1:I:128:ASP:OD1	1:I:138:VAL:HA	2.17	0.44
1:I:130:GLU:O	1:I:130:GLU:CG	2.65	0.44
1:I:155:LYS:HE3	1:I:155:LYS:HB3	1.88	0.44
1:M:523:PHE:CZ	1:M:545:TRP:CG	3.05	0.44
1:R:114:VAL:HA	1:R:150:THR:HA	1.98	0.44
1:U:626:ALA:HB3	1:U:635:VAL:HB	1.99	0.44
1:V:459:SER:HB3	1:V:486:LEU:HD11	1.99	0.44
1:W:176:LEU:O	1:W:195:GLU:HA	2.17	0.44
1:Y:382:LEU:HD13	1:Y:387:GLY:HA2	1.99	0.44
1:b:481:VAL:HG21	1:b:487:VAL:HB	1.99	0.44
1:f:60:VAL:HG23	1:f:106:GLU:HB2	1.98	0.44
1:h:17:HIS:NE2	1:h:99:LEU:O	2.37	0.44
1:i:176:LEU:O	1:i:195:GLU:HA	2.17	0.44
1:i:382:LEU:HD13	1:i:387:GLY:HA2	1.98	0.44
1:i:404:SER:OG	1:i:405:THR:N	2.50	0.44
1:j:219:VAL:HG11	1:j:227:LEU:HD13	2.00	0.44
1:k:128:ASP:OD1	1:k:128:ASP:N	2.49	0.44
1:k:175:ARG:NH1	1:k:195:GLU:OE1	2.44	0.44
1:l:176:LEU:O	1:l:195:GLU:HA	2.18	0.44
1:n:176:LEU:O	1:n:195:GLU:HA	2.17	0.44
1:r:130:GLU:OE1	1:r:136:LYS:HB3	2.18	0.44
1:0:727:GLU:HG3	1:1:735:ILE:HD13	1.98	0.44
1:2:404:SER:OG	1:2:405:THR:N	2.50	0.44
1:4:128:ASP:OD1	1:4:138:VAL:HA	2.17	0.44
1:9:17:HIS:NE2	1:9:99:LEU:O	2.38	0.44
1:AD:503:GLY:O	1:AD:506:LYS:NZ	2.47	0.44
1:AG:25:VAL:HG13	1:AG:80:GLN:HG2	1.99	0.44
1:AH:301:VAL:HG23	1:AH:369:VAL:HG13	1.99	0.44
1:AM:175:ARG:NH1	1:AM:195:GLU:OE1	2.45	0.44
1:AM:179:ARG:HB2	1:AM:209:PHE:HB3	1.99	0.44
1:AM:474:ARG:HB2	1:AM:492:GLU:HB2	1.98	0.44
1:AN:382:LEU:HD13	1:AN:387:GLY:HA2	1.99	0.44
1:AP:155:LYS:HE3	1:AP:155:LYS:HB3	1.89	0.44
1:B:769:GLU:OE2	1:C:766:ARG:NH1	2.42	0.44
1:C:179:ARG:HB2	1:C:209:PHE:HB3	2.00	0.44
1:D:382:LEU:HD13	1:D:387:GLY:HA2	1.99	0.44
1:D:701:LYS:HG3	1:K:709:LEU:HD13	2.00	0.44
1:E:424:GLU:OE2	1:E:452:ARG:NH1	2.45	0.44
1:F:175:ARG:NH1	1:F:195:GLU:OE1	2.44	0.44
1:F:468:VAL:HG12	1:F:515:CYS:HA	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:626:ALA:HB3	1:I:635:VAL:HB	1.99	0.44
1:J:176:LEU:O	1:J:195:GLU:HA	2.17	0.44
1:K:128:ASP:N	1:K:128:ASP:OD1	2.49	0.44
1:O:626:ALA:HB3	1:O:635:VAL:HB	1.99	0.44
1:P:795:PHE:CD1	1:W:827:LEU:CD1	2.99	0.44
1:Q:128:ASP:N	1:Q:128:ASP:OD1	2.49	0.44
1:S:404:SER:OG	1:S:405:THR:N	2.50	0.44
1:T:522:PHE:HA	1:T:543:TYR:O	2.17	0.44
1:Y:587:THR:OG1	1:Y:588:PHE:N	2.51	0.44
1:a:626:ALA:HB3	1:a:635:VAL:HB	1.99	0.44
1:c:176:LEU:O	1:c:195:GLU:HA	2.17	0.44
1:j:350:SER:O	1:j:350:SER:OG	2.35	0.44
1:l:587:THR:OG1	1:l:588:PHE:N	2.50	0.44
1:m:130:GLU:O	1:m:130:GLU:CG	2.65	0.44
1:u:155:LYS:HB3	1:u:155:LYS:HE3	1.78	0.44
1:z:459:SER:HB3	1:z:486:LEU:HD11	1.98	0.44
1:5:701:LYS:HG3	1:AC:709:LEU:HD13	2.00	0.44
1:6:727:GLU:HG3	1:7:735:ILE:HD13	1.98	0.44
1:8:523:PHE:CZ	1:8:545:TRP:CG	3.05	0.44
1:8:587:THR:OG1	1:8:588:PHE:N	2.51	0.44
1:9:130:GLU:OE1	1:9:136:LYS:HB3	2.18	0.44
1:AF:176:LEU:O	1:AF:195:GLU:HA	2.18	0.44
1:AG:130:GLU:O	1:AG:130:GLU:CG	2.65	0.44
1:AI:128:ASP:OD1	1:AI:128:ASP:N	2.49	0.44
1:AI:382:LEU:HD13	1:AI:387:GLY:HA2	1.98	0.44
1:AK:404:SER:OG	1:AK:405:THR:N	2.50	0.44
1:AL:155:LYS:HE2	1:AL:155:LYS:HB3	1.72	0.44
1:AL:424:GLU:OE2	1:AL:452:ARG:NH1	2.45	0.44
1:AM:128:ASP:OD1	1:AM:138:VAL:HA	2.17	0.44
1:AO:417:LYS:O	1:AO:452:ARG:NH2	2.42	0.44
1:B:170:PRO:HB2	1:C:233:ARG:HH11	1.83	0.44
1:G:122:HIS:NE2	1:G:142:GLU:OE1	2.46	0.44
1:G:474:ARG:NH1	1:G:475:GLU:OE1	2.49	0.44
1:H:170:PRO:HB2	1:I:233:ARG:HH11	1.83	0.44
1:I:384:GLU:HA	1:I:403:GLY:HA2	1.99	0.44
1:J:560:LYS:NZ	1:J:630:GLN:O	2.44	0.44
1:K:404:SER:OG	1:K:405:THR:N	2.50	0.44
1:L:120:ALA:HB2	1:L:205:LEU:HD21	1.99	0.44
1:P:165:ALA:HB2	1:P:205:LEU:HD13	2.00	0.44
1:Q:176:LEU:O	1:Q:195:GLU:HA	2.18	0.44
1:S:647:ASP:OD2	1:S:650:THR:OG1	2.29	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:128:ASP:OD1	1:U:138:VAL:HA	2.17	0.44
1:U:130:GLU:O	1:U:130:GLU:CG	2.65	0.44
1:V:417:LYS:O	1:V:452:ARG:NH2	2.43	0.44
1:W:328:GLU:O	1:W:360:ARG:NH2	2.44	0.44
1:W:727:GLU:HG3	1:X:735:ILE:HD13	1.98	0.44
1:Z:176:LEU:O	1:Z:195:GLU:HA	2.18	0.44
1:d:219:VAL:HG11	1:d:227:LEU:HD13	2.00	0.44
1:f:176:LEU:O	1:f:195:GLU:HA	2.18	0.44
1:f:827:LEU:HD21	1:g:831:LEU:CB	2.46	0.44
1:g:626:ALA:HB3	1:g:635:VAL:HB	1.99	0.44
1:k:122:HIS:NE2	1:k:142:GLU:OE1	2.46	0.44
1:k:647:ASP:OD2	1:k:650:THR:OG1	2.29	0.44
1:m:384:GLU:HA	1:m:403:GLY:HA2	2.00	0.44
1:o:653:ALA:HB1	1:p:662:ILE:HD13	1.98	0.44
1:p:9:ARG:HE	1:p:9:ARG:HB3	1.55	0.44
1:q:122:HIS:NE2	1:q:142:GLU:OE1	2.46	0.44
1:r:176:LEU:O	1:r:195:GLU:HA	2.18	0.44
1:r:522:PHE:HA	1:r:543:TYR:O	2.17	0.44
1:r:827:LEU:HD21	1:s:831:LEU:CB	2.46	0.44
1:t:424:GLU:OE2	1:t:452:ARG:NH1	2.45	0.44
1:w:587:THR:OG1	1:w:588:PHE:N	2.51	0.44
1:x:587:THR:OG1	1:x:588:PHE:N	2.50	0.44
1:1:291:ASP:OD1	1:1:291:ASP:N	2.43	0.44
1:2:301:VAL:HG23	1:2:369:VAL:HG13	1.99	0.44
1:2:827:LEU:HD13	1:3:795:PHE:CD1	2.49	0.44
1:3:424:GLU:OE2	1:3:452:ARG:NH1	2.45	0.44
1:4:130:GLU:O	1:4:130:GLU:CG	2.65	0.44
1:4:825:LEU:CD2	1:9:822:LEU:HB3	2.48	0.44
1:5:176:LEU:O	1:5:195:GLU:HA	2.17	0.44
1:7:468:VAL:HG12	1:7:515:CYS:HA	1.98	0.44
1:AA:128:ASP:OD1	1:AA:138:VAL:HA	2.17	0.44
1:AA:825:LEU:CD2	1:AF:822:LEU:HB3	2.48	0.44
1:AC:727:GLU:HG3	1:AD:735:ILE:HD13	1.98	0.44
1:AE:587:THR:OG1	1:AE:588:PHE:N	2.51	0.44
1:AH:55:LEU:HD13	1:AH:93:THR:HG21	1.99	0.44
1:AH:701:LYS:HG3	1:AO:709:LEU:HD13	2.00	0.44
1:AH:831:LEU:HD11	1:AP:832:ILE:CD1	2.47	0.44
1:AI:176:LEU:O	1:AI:195:GLU:HA	2.17	0.44
1:AI:411:ASP:OD1	1:AI:411:ASP:N	2.44	0.44
1:AP:468:VAL:HG12	1:AP:515:CYS:HA	1.98	0.44
1:C:176:LEU:O	1:C:195:GLU:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:350:SER:O	1:G:350:SER:OG	2.31	0.44
1:H:130:GLU:OE1	1:H:136:LYS:HB3	2.18	0.44
1:N:170:PRO:HB2	1:O:233:ARG:HH11	1.83	0.44
1:N:176:LEU:O	1:N:195:GLU:HA	2.18	0.44
1:Q:360:ARG:HE	1:Q:360:ARG:HB2	1.63	0.44
1:T:176:LEU:O	1:T:195:GLU:HA	2.18	0.44
1:V:176:LEU:O	1:V:195:GLU:HA	2.17	0.44
1:V:795:PHE:CD1	1:c:827:LEU:CD1	2.99	0.44
1:W:124:ARG:NH1	1:W:142:GLU:OE2	2.51	0.44
1:W:404:SER:OG	1:W:405:THR:N	2.50	0.44
1:Y:90:ILE:H	1:Y:90:ILE:HG13	1.65	0.44
1:c:653:ALA:HB1	1:d:662:ILE:HD13	1.98	0.44
1:e:128:ASP:OD1	1:e:128:ASP:N	2.49	0.44
1:h:165:ALA:HB2	1:h:205:LEU:HD13	2.00	0.44
1:m:350:SER:O	1:m:350:SER:OG	2.30	0.44
1:n:481:VAL:HG21	1:n:487:VAL:HB	1.99	0.44
1:o:382:LEU:HD13	1:o:387:GLY:HA2	1.98	0.44
1:r:60:VAL:HG23	1:r:106:GLU:HB2	1.98	0.44
1:t:701:LYS:HG3	1:0:709:LEU:HD13	2.00	0.44
1:x:176:LEU:O	1:x:195:GLU:HA	2.18	0.44
1:y:122:HIS:NE2	1:y:142:GLU:OE1	2.45	0.44
1:y:825:LEU:CD2	1:3:822:LEU:HB3	2.48	0.44
1:z:301:VAL:HG23	1:z:369:VAL:HG13	1.99	0.44
1:z:701:LYS:HG3	1:6:709:LEU:HD13	2.00	0.44
1:1:120:ALA:HB2	1:1:205:LEU:HD21	1.99	0.44
1:4:176:LEU:O	1:4:195:GLU:HA	2.18	0.44
1:4:796:LYS:HE2	1:4:796:LYS:HB3	1.34	0.44
1:5:301:VAL:HG23	1:5:369:VAL:HG13	1.99	0.44
1:6:124:ARG:NH1	1:6:142:GLU:OE2	2.51	0.44
1:7:120:ALA:HB2	1:7:205:LEU:HD21	1.99	0.44
1:AD:384:GLU:HA	1:AD:403:GLY:HA2	2.00	0.44
1:AE:301:VAL:HG23	1:AE:369:VAL:HG13	1.99	0.44
1:AG:179:ARG:HB2	1:AG:209:PHE:HB3	2.00	0.44
1:AG:384:GLU:HA	1:AG:403:GLY:HA2	1.99	0.44
1:AH:382:LEU:HD13	1:AH:387:GLY:HA2	1.99	0.44
1:AI:60:VAL:HG22	1:AI:107:LYS:HB3	1.98	0.44
1:AK:382:LEU:HD13	1:AK:387:GLY:HA2	1.99	0.44
1:AM:176:LEU:O	1:AM:195:GLU:HA	2.18	0.44
1:AN:626:ALA:HB3	1:AN:635:VAL:HB	1.98	0.44
1:B:382:LEU:HD13	1:B:387:GLY:HA2	1.99	0.44
1:D:626:ALA:HB3	1:D:635:VAL:HB	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:709:LEU:HD13	1:AN:701:LYS:HG3	2.00	0.44
1:H:176:LEU:O	1:H:195:GLU:HA	2.18	0.44
1:I:68:ASP:OD1	1:I:72:SER:N	2.50	0.44
1:I:179:ARG:HB2	1:I:209:PHE:HB3	2.00	0.44
1:M:404:SER:OG	1:M:405:THR:N	2.50	0.44
1:T:796:LYS:HE3	1:T:796:LYS:HB3	1.44	0.44
1:X:219:VAL:HG11	1:X:227:LEU:HD13	2.00	0.44
1:a:654:LEU:HD22	1:e:534:HIS:CD2	2.51	0.44
1:b:176:LEU:O	1:b:195:GLU:HA	2.17	0.44
1:d:417:LYS:O	1:d:452:ARG:NH2	2.42	0.44
1:f:130:GLU:OE1	1:f:136:LYS:HB3	2.18	0.44
1:f:382:LEU:HD13	1:f:387:GLY:HA2	1.99	0.44
1:i:653:ALA:HB1	1:j:662:ILE:HD13	1.98	0.44
1:k:155:LYS:HB3	1:k:155:LYS:HE3	1.77	0.44
1:m:626:ALA:HB3	1:m:635:VAL:HB	1.99	0.44
1:n:701:LYS:HG3	1:u:709:LEU:HD13	2.00	0.44
1:t:165:ALA:HB2	1:t:205:LEU:HD13	2.00	0.44
1:u:175:ARG:NH1	1:u:195:GLU:OE1	2.44	0.44
1:u:404:SER:OG	1:u:405:THR:N	2.50	0.44
1:1:402:ILE:HD11	1:1:457:VAL:HG11	2.00	0.44
1:2:523:PHE:CZ	1:2:545:TRP:CG	3.05	0.44
1:3:130:GLU:OE1	1:3:136:LYS:HB3	2.18	0.44
1:6:382:LEU:HD13	1:6:387:GLY:HA2	1.98	0.44
1:7:129:PHE:CD2	1:7:156:GLU:HB3	2.38	0.44
1:9:587:THR:OG1	1:9:588:PHE:N	2.50	0.44
1:9:796:LYS:HE3	1:9:796:LYS:HB3	1.44	0.44
1:AB:55:LEU:HD13	1:AB:93:THR:HG21	1.99	0.44
1:AB:701:LYS:HG3	1:AI:709:LEU:HD13	2.00	0.44
1:AC:124:ARG:NH1	1:AC:142:GLU:OE2	2.51	0.44
1:AD:291:ASP:OD1	1:AD:291:ASP:N	2.43	0.44
1:AF:130:GLU:OE1	1:AF:136:LYS:HB3	2.18	0.44
1:AJ:384:GLU:HA	1:AJ:403:GLY:HA2	2.00	0.44
1:AL:170:PRO:HB2	1:AM:233:ARG:HH11	1.83	0.44
1:AO:122:HIS:NE2	1:AO:142:GLU:OE1	2.44	0.44
1:A:404:SER:OG	1:A:405:THR:N	2.50	0.44
1:A:587:THR:OG1	1:A:588:PHE:N	2.51	0.44
1:B:587:THR:OG1	1:B:588:PHE:N	2.50	0.44
1:C:626:ALA:HB3	1:C:635:VAL:HB	1.99	0.44
1:D:350:SER:O	1:D:350:SER:OG	2.32	0.44
1:F:529:ILE:HG22	1:F:537:LEU:HB2	2.00	0.44
1:G:523:PHE:CZ	1:G:545:TRP:CG	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:587:THR:OG1	1:H:588:PHE:N	2.50	0.44
1:H:769:GLU:OE2	1:I:766:ARG:NH1	2.42	0.44
1:I:176:LEU:O	1:I:195:GLU:HA	2.18	0.44
1:J:831:LEU:HD11	1:R:832:ILE:CD1	2.47	0.44
1:K:176:LEU:O	1:K:195:GLU:HA	2.17	0.44
1:K:424:GLU:OE2	1:K:452:ARG:NH1	2.45	0.44
1:L:468:VAL:HG12	1:L:515:CYS:HA	1.98	0.44
1:M:587:THR:OG1	1:M:588:PHE:N	2.51	0.44
1:P:176:LEU:O	1:P:195:GLU:HA	2.17	0.44
1:T:130:GLU:OE1	1:T:136:LYS:HB3	2.18	0.44
1:V:356:ARG:HA	1:V:356:ARG:HD3	1.87	0.44
1:Z:382:LEU:HD13	1:Z:387:GLY:HA2	1.99	0.44
1:Z:523:PHE:CZ	1:Z:545:TRP:CG	3.06	0.44
1:b:382:LEU:HD13	1:b:387:GLY:HA2	1.99	0.44
1:d:481:VAL:HG21	1:d:487:VAL:HB	2.00	0.44
1:e:647:ASP:OD2	1:e:650:THR:OG1	2.29	0.44
1:k:587:THR:OG1	1:k:588:PHE:N	2.51	0.44
1:l:769:GLU:OE2	1:m:766:ARG:NH1	2.42	0.44
1:n:175:ARG:NH1	1:n:195:GLU:OE1	2.44	0.44
1:o:124:ARG:NH1	1:o:142:GLU:OE2	2.51	0.44
1:p:219:VAL:HG11	1:p:227:LEU:HD13	2.00	0.44
1:s:626:ALA:HB3	1:s:635:VAL:HB	1.99	0.44
1:v:175:ARG:NH1	1:v:195:GLU:OE1	2.44	0.44
1:v:402:ILE:HD11	1:v:457:VAL:HG11	2.00	0.44
1:x:155:LYS:HE2	1:x:155:LYS:HB3	1.72	0.44
1:z:55:LEU:HD13	1:z:93:THR:HG21	1.99	0.44
1:z:382:LEU:HD13	1:z:387:GLY:HA2	1.99	0.44
1:z:481:VAL:HG21	1:z:487:VAL:HB	1.99	0.44
1:0:404:SER:OG	1:0:405:THR:N	2.50	0.44
1:5:55:LEU:HD13	1:5:93:THR:HG21	1.99	0.44
1:7:402:ILE:HD11	1:7:457:VAL:HG11	2.00	0.44
1:9:522:PHE:HA	1:9:543:TYR:O	2.17	0.44
1:AG:503:GLY:O	1:AG:506:LYS:NZ	2.47	0.44
1:AH:827:LEU:HD21	1:AJ:831:LEU:CB	2.46	0.44
1:AI:124:ARG:NH1	1:AI:142:GLU:OE2	2.51	0.44
1:AJ:468:VAL:HG12	1:AJ:515:CYS:HA	1.98	0.44
1:AL:523:PHE:CZ	1:AL:545:TRP:CG	3.06	0.44
1:AN:176:LEU:O	1:AN:195:GLU:HA	2.17	0.44
1:AN:404:SER:OG	1:AN:405:THR:N	2.51	0.44
1:AN:827:LEU:HD21	1:AP:831:LEU:CB	2.46	0.44
1:AP:219:VAL:HG11	1:AP:227:LEU:HD13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:459:SER:HB3	1:D:486:LEU:HD11	1.98	0.44
1:E:124:ARG:NH1	1:E:142:GLU:OE2	2.51	0.44
1:G:128:ASP:OD1	1:G:128:ASP:N	2.49	0.44
1:H:755:THR:O	1:H:759:LEU:HB2	2.18	0.44
1:J:481:VAL:HG21	1:J:487:VAL:HB	1.99	0.44
1:O:176:LEU:O	1:O:195:GLU:HA	2.18	0.44
1:P:476:LYS:HZ2	1:W:486:LEU:H	1.66	0.44
1:S:587:THR:OG1	1:S:588:PHE:N	2.51	0.44
1:T:170:PRO:HB2	1:U:233:ARG:HH11	1.83	0.44
1:U:176:LEU:O	1:U:195:GLU:HA	2.18	0.44
1:X:9:ARG:HE	1:X:9:ARG:HB3	1.55	0.44
1:X:468:VAL:HG12	1:X:515:CYS:HA	1.98	0.44
1:X:481:VAL:HG21	1:X:487:VAL:HB	2.00	0.44
1:Y:122:HIS:NE2	1:Y:142:GLU:OE1	2.46	0.44
1:b:55:LEU:HD13	1:b:93:THR:HG21	1.99	0.44
1:b:165:ALA:HB2	1:b:205:LEU:HD13	2.00	0.44
1:f:350:SER:O	1:f:350:SER:OG	2.31	0.44
1:f:523:PHE:CZ	1:f:545:TRP:CG	3.06	0.44
1:g:128:ASP:OD1	1:g:138:VAL:HA	2.17	0.44
1:g:384:GLU:HA	1:g:403:GLY:HA2	1.99	0.44
1:j:120:ALA:HB2	1:j:205:LEU:HD21	1.99	0.44
1:j:481:VAL:HG21	1:j:487:VAL:HB	2.00	0.44
1:l:60:VAL:HG23	1:l:106:GLU:HB2	1.98	0.44
1:n:382:LEU:HD13	1:n:387:GLY:HA2	1.99	0.44
1:p:481:VAL:HG21	1:p:487:VAL:HB	2.00	0.44
1:s:825:LEU:CD2	1:x:822:LEU:HB3	2.48	0.44
1:t:17:HIS:NE2	1:t:99:LEU:O	2.37	0.44
1:u:124:ARG:NH1	1:u:142:GLU:OE2	2.51	0.44
1:w:468:VAL:HG12	1:w:515:CYS:HA	2.00	0.44
1:x:130:GLU:OE1	1:x:136:LYS:HB3	2.18	0.44
1:z:165:ALA:HB2	1:z:205:LEU:HD13	2.00	0.44
1:2:382:LEU:HD13	1:2:387:GLY:HA2	1.99	0.44
1:2:468:VAL:HG12	1:2:515:CYS:HA	2.00	0.44
1:3:176:LEU:O	1:3:195:GLU:HA	2.18	0.44
1:8:301:VAL:HG23	1:8:369:VAL:HG13	1.99	0.44
1:9:827:LEU:HD21	1:AA:831:LEU:CB	2.46	0.44
1:AA:796:LYS:HB3	1:AA:796:LYS:HE2	1.34	0.44
1:AB:301:VAL:HG23	1:AB:369:VAL:HG13	1.99	0.44
1:AC:176:LEU:O	1:AC:195:GLU:HA	2.17	0.44
1:AE:155:LYS:HE3	1:AE:155:LYS:HB3	1.77	0.44
1:AE:176:LEU:O	1:AE:195:GLU:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:404:SER:OG	1:AE:405:THR:N	2.50	0.44
1:AE:595:SER:O	1:AE:599:ILE:CG1	2.55	0.44
1:AF:523:PHE:CZ	1:AF:545:TRP:CG	3.06	0.44
1:AG:128:ASP:OD1	1:AG:138:VAL:HA	2.17	0.44
1:AJ:529:ILE:HG22	1:AJ:537:LEU:HB2	2.00	0.44
1:AL:176:LEU:O	1:AL:195:GLU:HA	2.18	0.44
1:AN:55:LEU:HD13	1:AN:93:THR:HG21	1.99	0.44
1:AO:840:ASN:OD1	1:AO:840:ASN:N	2.45	0.44
1:B:176:LEU:O	1:B:195:GLU:HA	2.18	0.44
1:D:827:LEU:HD21	1:F:831:LEU:CB	2.46	0.44
1:E:531:THR:OG1	1:E:532:ALA:N	2.51	0.44
1:F:523:PHE:O	1:F:542:ALA:HA	2.18	0.44
1:F:832:ILE:CD1	1:AN:831:LEU:HD11	2.47	0.44
1:G:382:LEU:HD13	1:G:387:GLY:HA2	1.99	0.44
1:H:411:ASP:OD1	1:H:411:ASP:N	2.50	0.44
1:J:404:SER:OG	1:J:405:THR:N	2.51	0.44
1:J:701:LYS:HG3	1:Q:709:LEU:HD13	2.00	0.44
1:M:417:LYS:O	1:M:452:ARG:NH2	2.42	0.44
1:P:55:LEU:HD13	1:P:93:THR:HG21	1.99	0.44
1:P:701:LYS:HG3	1:W:709:LEU:HD13	2.00	0.44
1:T:523:PHE:CZ	1:T:545:TRP:CG	3.06	0.44
1:W:301:VAL:HG23	1:W:369:VAL:HG13	2.00	0.44
1:Y:404:SER:OG	1:Y:405:THR:N	2.50	0.44
1:a:176:LEU:O	1:a:195:GLU:HA	2.18	0.44
1:c:124:ARG:NH1	1:c:142:GLU:OE2	2.51	0.44
1:c:128:ASP:OD1	1:c:128:ASP:N	2.49	0.44
1:h:55:LEU:HD13	1:h:93:THR:HG21	1.99	0.44
1:h:837:THR:HG1	1:n:839:VAL:HB	1.83	0.44
1:i:301:VAL:HG23	1:i:369:VAL:HG13	2.00	0.44
1:j:523:PHE:O	1:j:542:ALA:HA	2.18	0.44
1:k:424:GLU:OE2	1:k:452:ARG:NH1	2.45	0.44
1:l:523:PHE:CZ	1:l:545:TRP:CG	3.06	0.44
1:m:176:LEU:O	1:m:195:GLU:HA	2.18	0.44
1:o:128:ASP:OD1	1:o:128:ASP:N	2.49	0.44
1:t:124:ARG:NH1	1:t:142:GLU:OE2	2.51	0.44
1:u:531:THR:OG1	1:u:532:ALA:N	2.51	0.44
1:x:350:SER:O	1:x:350:SER:OG	2.31	0.44
1:x:382:LEU:HD13	1:x:387:GLY:HA2	1.99	0.44
1:x:827:LEU:HD21	1:y:831:LEU:CB	2.46	0.44
1:2:90:ILE:H	1:2:90:ILE:HG13	1.65	0.44
1:3:382:LEU:HD13	1:3:387:GLY:HA2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:384:GLU:HA	1:4:403:GLY:HA2	2.00	0.44
1:5:382:LEU:HD13	1:5:387:GLY:HA2	1.99	0.44
1:8:90:ILE:H	1:8:90:ILE:HG13	1.65	0.44
1:8:382:LEU:HD13	1:8:387:GLY:HA2	1.99	0.44
1:AA:179:ARG:HB2	1:AA:209:PHE:HB3	1.99	0.44
1:AB:459:SER:HB3	1:AB:486:LEU:HD11	1.98	0.44
1:AF:382:LEU:HD13	1:AF:387:GLY:HA2	1.99	0.44
1:AF:417:LYS:O	1:AF:452:ARG:NH2	2.42	0.44
1:AG:176:LEU:O	1:AG:195:GLU:HA	2.18	0.44
1:AH:481:VAL:HG21	1:AH:487:VAL:HB	1.99	0.44
1:AJ:219:VAL:HG11	1:AJ:227:LEU:HD13	2.00	0.44
1:AK:301:VAL:HG23	1:AK:369:VAL:HG13	1.99	0.44
1:AN:481:VAL:HG21	1:AN:487:VAL:HB	1.99	0.44
1:AP:120:ALA:HB2	1:AP:205:LEU:HD21	1.99	0.44
1:AP:350:SER:O	1:AP:350:SER:OG	2.34	0.44
1:AP:384:GLU:HA	1:AP:403:GLY:HA2	2.00	0.44
1:AP:523:PHE:O	1:AP:542:ALA:HA	2.18	0.44
1:A:310:LEU:HD11	1:A:316:LEU:HG	2.00	0.43
1:B:411:ASP:OD1	1:B:411:ASP:N	2.50	0.43
1:D:356:ARG:HA	1:D:356:ARG:HD3	1.87	0.43
1:E:486:LEU:H	1:AN:476:LYS:HZ2	1.66	0.43
1:F:219:VAL:HG11	1:F:227:LEU:HD13	2.00	0.43
1:G:310:LEU:HD11	1:G:316:LEU:HG	2.00	0.43
1:J:124:ARG:NH1	1:J:142:GLU:OE2	2.51	0.43
1:J:175:ARG:NH1	1:J:195:GLU:OE1	2.44	0.43
1:J:827:LEU:HD21	1:L:831:LEU:CB	2.46	0.43
1:K:301:VAL:HG23	1:K:369:VAL:HG13	2.00	0.43
1:K:531:THR:OG1	1:K:532:ALA:N	2.51	0.43
1:M:382:LEU:HD13	1:M:387:GLY:HA2	1.99	0.43
1:N:64:PRO:HD2	1:N:87:ASP:HB3	2.00	0.43
1:Q:76:ASP:OD1	1:Q:78:THR:OG1	2.28	0.43
1:R:468:VAL:HG12	1:R:515:CYS:HA	1.98	0.43
1:R:481:VAL:HG21	1:R:487:VAL:HB	2.00	0.43
1:Z:130:GLU:OE1	1:Z:136:LYS:HB3	2.18	0.43
1:Z:755:THR:O	1:Z:759:LEU:HB2	2.18	0.43
1:b:205:LEU:HD12	1:b:206:PRO:HD2	2.00	0.43
1:b:701:LYS:HG3	1:i:709:LEU:HD13	2.00	0.43
1:e:175:ARG:NH1	1:e:195:GLU:OE1	2.44	0.43
1:h:382:LEU:HD13	1:h:387:GLY:HA2	1.99	0.43
1:l:468:VAL:HG12	1:l:515:CYS:HA	2.00	0.43
1:m:825:LEU:CD2	1:r:822:LEU:HB3	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:128:ASP:HB3	1:o:136:LYS:HZ1	1.83	0.43
1:o:531:THR:OG1	1:o:532:ALA:N	2.51	0.43
1:p:402:ILE:HD11	1:p:457:VAL:HG11	2.00	0.43
1:q:409:THR:OG1	1:q:410:GLN:OE1	2.37	0.43
1:q:468:VAL:HG12	1:q:515:CYS:HA	2.00	0.43
1:u:301:VAL:HG23	1:u:369:VAL:HG13	2.00	0.43
1:w:176:LEU:O	1:w:195:GLU:HA	2.18	0.43
1:w:596:ALA:O	1:w:600:ARG:HB2	2.19	0.43
1:z:356:ARG:HA	1:z:356:ARG:HD3	1.87	0.43
1:0:124:ARG:NH1	1:0:142:GLU:OE2	2.51	0.43
1:2:176:LEU:O	1:2:195:GLU:HA	2.18	0.43
1:3:468:VAL:HG12	1:3:515:CYS:HA	2.00	0.43
1:5:115:VAL:HG11	1:5:121:LEU:HG	2.00	0.43
1:5:459:SER:HB3	1:5:486:LEU:HD11	1.98	0.43
1:5:481:VAL:HG21	1:5:487:VAL:HB	1.99	0.43
1:8:176:LEU:O	1:8:195:GLU:HA	2.18	0.43
1:8:409:THR:OG1	1:8:410:GLN:OE1	2.37	0.43
1:9:468:VAL:HG12	1:9:515:CYS:HA	2.00	0.43
1:AB:404:SER:OG	1:AB:405:THR:N	2.51	0.43
1:AB:827:LEU:HD21	1:AD:831:LEU:CB	2.46	0.43
1:AC:424:GLU:OE2	1:AC:452:ARG:NH1	2.45	0.43
1:AD:219:VAL:HG11	1:AD:227:LEU:HD13	2.00	0.43
1:AG:796:LYS:HE2	1:AG:796:LYS:HB3	1.34	0.43
1:AJ:523:PHE:O	1:AJ:542:ALA:HA	2.18	0.43
1:AO:424:GLU:OE2	1:AO:452:ARG:NH1	2.45	0.43
1:A:176:LEU:O	1:A:195:GLU:HA	2.18	0.43
1:A:360:ARG:HE	1:A:360:ARG:HB2	1.62	0.43
1:A:382:LEU:HD13	1:A:387:GLY:HA2	1.99	0.43
1:B:523:PHE:CZ	1:B:545:TRP:CG	3.06	0.43
1:C:17:HIS:NE2	1:C:99:LEU:O	2.37	0.43
1:C:175:ARG:NH1	1:C:195:GLU:OE1	2.45	0.43
1:C:177:ARG:HB2	1:C:213:LEU:HD11	2.01	0.43
1:D:205:LEU:HD12	1:D:206:PRO:HD2	2.00	0.43
1:D:831:LEU:HD11	1:L:832:ILE:CD1	2.47	0.43
1:F:503:GLY:O	1:F:506:LYS:NZ	2.47	0.43
1:J:165:ALA:HB2	1:J:205:LEU:HD13	2.00	0.43
1:J:205:LEU:HD12	1:J:206:PRO:HD2	2.00	0.43
1:L:175:ARG:NH1	1:L:195:GLU:OE1	2.44	0.43
1:N:155:LYS:HE2	1:N:155:LYS:HB3	1.72	0.43
1:N:411:ASP:OD1	1:N:411:ASP:N	2.50	0.43
1:O:384:GLU:HA	1:O:403:GLY:HA2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:837:THR:HG1	1:V:839:VAL:HB	1.83	0.43
1:Q:301:VAL:HG23	1:Q:369:VAL:HG13	2.00	0.43
1:R:276:LEU:O	1:R:305:GLU:HA	2.18	0.43
1:R:529:ILE:HG22	1:R:537:LEU:HB2	2.00	0.43
1:S:128:ASP:OD1	1:S:128:ASP:N	2.49	0.43
1:S:382:LEU:HD13	1:S:387:GLY:HA2	1.99	0.43
1:T:382:LEU:HD13	1:T:387:GLY:HA2	1.99	0.43
1:U:177:ARG:HB2	1:U:213:LEU:HD11	2.01	0.43
1:f:468:VAL:HG12	1:f:515:CYS:HA	2.00	0.43
1:g:176:LEU:O	1:g:195:GLU:HA	2.18	0.43
1:h:701:LYS:HG3	1:o:709:LEU:HD13	2.00	0.43
1:k:596:ALA:O	1:k:600:ARG:HB2	2.19	0.43
1:n:124:ARG:NH1	1:n:142:GLU:OE2	2.51	0.43
1:r:404:SER:OG	1:r:405:THR:N	2.52	0.43
1:r:468:VAL:HG12	1:r:515:CYS:HA	2.00	0.43
1:r:523:PHE:CZ	1:r:545:TRP:CG	3.06	0.43
1:s:128:ASP:OD1	1:s:138:VAL:HA	2.17	0.43
1:t:503:GLY:O	1:t:506:LYS:NZ	2.49	0.43
1:u:128:ASP:HB3	1:u:136:LYS:HZ1	1.82	0.43
1:v:481:VAL:HG21	1:v:487:VAL:HB	2.00	0.43
1:x:468:VAL:HG12	1:x:515:CYS:HA	2.00	0.43
1:y:176:LEU:O	1:y:195:GLU:HA	2.18	0.43
1:y:626:ALA:HB3	1:y:635:VAL:HB	1.99	0.43
1:z:115:VAL:HG11	1:z:121:LEU:HG	2.00	0.43
1:0:531:THR:OG1	1:0:532:ALA:N	2.51	0.43
1:1:523:PHE:O	1:1:542:ALA:HA	2.18	0.43
1:3:17:HIS:NE2	1:3:99:LEU:O	2.38	0.43
1:3:404:SER:OG	1:3:405:THR:N	2.52	0.43
1:5:476:LYS:HZ2	1:AC:486:LEU:H	1.66	0.43
1:7:219:VAL:HG11	1:7:227:LEU:HD13	2.00	0.43
1:7:529:ILE:HG22	1:7:537:LEU:HB2	2.00	0.43
1:8:596:ALA:O	1:8:600:ARG:HB2	2.19	0.43
1:9:523:PHE:CZ	1:9:545:TRP:CG	3.06	0.43
1:AB:115:VAL:HG11	1:AB:121:LEU:HG	2.00	0.43
1:AB:481:VAL:HG21	1:AB:487:VAL:HB	1.99	0.43
1:AD:120:ALA:HB2	1:AD:205:LEU:HD21	1.99	0.43
1:AE:596:ALA:O	1:AE:600:ARG:HB2	2.19	0.43
1:AJ:366:VAL:HA	1:AJ:367:PRO:HD3	1.91	0.43
1:AN:115:VAL:HG11	1:AN:121:LEU:HG	2.01	0.43
1:AN:503:GLY:O	1:AN:506:LYS:NZ	2.49	0.43
1:AO:124:ARG:NH1	1:AO:142:GLU:OE2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:531:THR:OG1	1:AO:532:ALA:N	2.51	0.43
1:AP:276:LEU:O	1:AP:305:GLU:HA	2.18	0.43
1:AP:529:ILE:HG22	1:AP:537:LEU:HB2	2.00	0.43
1:D:837:THR:OG1	1:J:839:VAL:CB	2.66	0.43
1:E:176:LEU:O	1:E:195:GLU:HA	2.17	0.43
1:F:276:LEU:O	1:F:305:GLU:HA	2.19	0.43
1:J:115:VAL:HG11	1:J:121:LEU:HG	2.00	0.43
1:K:124:ARG:NH1	1:K:142:GLU:OE2	2.51	0.43
1:L:523:PHE:O	1:L:542:ALA:HA	2.18	0.43
1:M:310:LEU:HD11	1:M:316:LEU:HG	2.00	0.43
1:N:130:GLU:OE1	1:N:136:LYS:HB3	2.18	0.43
1:N:523:PHE:CZ	1:N:545:TRP:CG	3.06	0.43
1:P:404:SER:OG	1:P:405:THR:N	2.51	0.43
1:P:503:GLY:O	1:P:506:LYS:NZ	2.49	0.43
1:Q:124:ARG:NH1	1:Q:142:GLU:OE2	2.51	0.43
1:T:55:LEU:HD13	1:T:93:THR:HG21	2.00	0.43
1:X:503:GLY:O	1:X:506:LYS:NZ	2.47	0.43
1:Y:596:ALA:O	1:Y:600:ARG:HB2	2.19	0.43
1:a:177:ARG:HB2	1:a:213:LEU:HD11	2.01	0.43
1:b:124:ARG:NH1	1:b:142:GLU:OE2	2.51	0.43
1:b:404:SER:OG	1:b:405:THR:N	2.51	0.43
1:g:796:LYS:HE2	1:g:796:LYS:HB3	1.34	0.43
1:j:384:GLU:HA	1:j:403:GLY:HA2	2.00	0.43
1:k:468:VAL:HG12	1:k:515:CYS:HA	2.00	0.43
1:l:486:LEU:H	1:m:476:LYS:HZ2	1.67	0.43
1:o:76:ASP:OD1	1:o:78:THR:OG1	2.28	0.43
1:s:175:ARG:NH1	1:s:195:GLU:OE1	2.45	0.43
1:s:176:LEU:O	1:s:195:GLU:HA	2.18	0.43
1:v:120:ALA:HB2	1:v:205:LEU:HD21	1.99	0.43
1:z:124:ARG:NH1	1:z:142:GLU:OE2	2.51	0.43
1:1:155:LYS:HE3	1:1:155:LYS:HB3	1.88	0.43
1:2:409:THR:OG1	1:2:410:GLN:OE1	2.37	0.43
1:3:523:PHE:CZ	1:3:545:TRP:CG	3.06	0.43
1:3:625:ARG:HD3	1:3:625:ARG:HA	1.88	0.43
1:6:404:SER:OG	1:6:405:THR:N	2.50	0.43
1:7:384:GLU:HA	1:7:403:GLY:HA2	2.00	0.43
1:8:468:VAL:HG12	1:8:515:CYS:HA	2.00	0.43
1:AA:176:LEU:O	1:AA:195:GLU:HA	2.18	0.43
1:AD:39:ASP:O	1:AD:42:ARG:NH2	2.52	0.43
1:AE:409:THR:OG1	1:AE:410:GLN:OE1	2.37	0.43
1:AF:170:PRO:HB2	1:AG:233:ARG:HH11	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:115:VAL:HG11	1:AH:121:LEU:HG	2.00	0.43
1:AJ:120:ALA:HB2	1:AJ:205:LEU:HD21	1.99	0.43
1:AK:310:LEU:HD11	1:AK:316:LEU:HG	2.00	0.43
1:AN:124:ARG:NH1	1:AN:142:GLU:OE2	2.51	0.43
1:AN:165:ALA:HB2	1:AN:205:LEU:HD13	2.00	0.43
1:B:755:THR:O	1:B:759:LEU:HB2	2.18	0.43
1:D:115:VAL:HG11	1:D:121:LEU:HG	2.00	0.43
1:D:579:VAL:O	1:D:583:VAL:HB	2.19	0.43
1:E:301:VAL:HG23	1:E:369:VAL:HG13	2.00	0.43
1:F:120:ALA:HB2	1:F:205:LEU:HD21	1.99	0.43
1:G:175:ARG:NH1	1:G:195:GLU:OE1	2.44	0.43
1:H:64:PRO:HD2	1:H:87:ASP:HB3	2.00	0.43
1:H:382:LEU:HD13	1:H:387:GLY:HA2	1.99	0.43
1:I:177:ARG:HB2	1:I:213:LEU:HD11	2.01	0.43
1:J:579:VAL:O	1:J:583:VAL:HB	2.19	0.43
1:L:219:VAL:HG11	1:L:227:LEU:HD13	2.00	0.43
1:L:276:LEU:O	1:L:305:GLU:HA	2.18	0.43
1:L:481:VAL:HG21	1:L:487:VAL:HB	2.00	0.43
1:L:529:ILE:HG22	1:L:537:LEU:HB2	2.00	0.43
1:O:128:ASP:OD1	1:O:138:VAL:HA	2.17	0.43
1:R:219:VAL:HG11	1:R:227:LEU:HD13	2.00	0.43
1:T:64:PRO:HD2	1:T:87:ASP:HB3	2.00	0.43
1:T:301:VAL:HG23	1:T:369:VAL:HG13	2.01	0.43
1:V:55:LEU:HD13	1:V:93:THR:HG21	1.99	0.43
1:V:701:LYS:HG3	1:c:709:LEU:HD13	2.00	0.43
1:X:384:GLU:HA	1:X:403:GLY:HA2	2.00	0.43
1:X:411:ASP:OD1	1:X:411:ASP:N	2.41	0.43
1:c:301:VAL:HG23	1:c:369:VAL:HG13	2.00	0.43
1:e:17:HIS:NE2	1:e:99:LEU:O	2.36	0.43
1:f:170:PRO:HB2	1:g:233:ARG:HH11	1.83	0.43
1:f:301:VAL:HG23	1:f:369:VAL:HG13	2.01	0.43
1:f:404:SER:OG	1:f:405:THR:N	2.52	0.43
1:g:587:THR:OG1	1:g:588:PHE:N	2.52	0.43
1:g:825:LEU:CD2	1:l:822:LEU:HB3	2.48	0.43
1:h:205:LEU:HD12	1:h:206:PRO:HD2	2.00	0.43
1:k:409:THR:OG1	1:k:410:GLN:OE1	2.37	0.43
1:k:486:LEU:H	1:l:476:LYS:HZ2	1.67	0.43
1:m:796:LYS:HB3	1:m:796:LYS:HE2	1.34	0.43
1:o:301:VAL:HG23	1:o:369:VAL:HG13	2.00	0.43
1:r:301:VAL:HG23	1:r:369:VAL:HG13	2.01	0.43
1:t:55:LEU:HD13	1:t:93:THR:HG21	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:115:VAL:HG11	1:t:121:LEU:HG	2.01	0.43
1:t:837:THR:OG1	1:z:839:VAL:CB	2.66	0.43
1:w:409:THR:OG1	1:w:410:GLN:OE1	2.37	0.43
1:x:170:PRO:HB2	1:y:233:ARG:HH11	1.83	0.43
1:0:7:ILE:HD12	1:0:36:ILE:HA	2.01	0.43
1:1:481:VAL:HG21	1:1:487:VAL:HB	2.00	0.43
1:2:587:THR:OG1	1:2:588:PHE:N	2.51	0.43
1:6:7:ILE:HD12	1:6:36:ILE:HA	2.01	0.43
1:7:39:ASP:O	1:7:42:ARG:NH2	2.52	0.43
1:7:291:ASP:OD1	1:7:291:ASP:N	2.43	0.43
1:8:627:VAL:HG12	1:8:634:VAL:HG22	2.01	0.43
1:9:176:LEU:O	1:9:195:GLU:HA	2.18	0.43
1:AA:291:ASP:OD1	1:AA:291:ASP:N	2.43	0.43
1:AB:424:GLU:OE2	1:AB:452:ARG:NH1	2.45	0.43
1:AC:7:ILE:HD12	1:AC:36:ILE:HA	2.01	0.43
1:AD:402:ILE:HD11	1:AD:457:VAL:HG11	2.00	0.43
1:AD:468:VAL:HG12	1:AD:515:CYS:HA	1.98	0.43
1:AD:529:ILE:HG22	1:AD:537:LEU:HB2	2.00	0.43
1:AE:90:ILE:H	1:AE:90:ILE:HG13	1.65	0.43
1:AH:165:ALA:HB2	1:AH:205:LEU:HD13	2.00	0.43
1:AJ:276:LEU:O	1:AJ:305:GLU:HA	2.19	0.43
1:AK:176:LEU:O	1:AK:195:GLU:HA	2.18	0.43
1:AK:409:THR:OG1	1:AK:410:GLN:OE1	2.37	0.43
1:AM:177:ARG:HB2	1:AM:213:LEU:HD11	2.01	0.43
1:AO:794:LYS:HZ1	1:AO:851:LEU:HD21	1.82	0.43
1:K:43:ILE:H	1:K:43:ILE:HG13	1.71	0.43
1:M:761:ARG:HG2	1:N:755:THR:HG21	2.01	0.43
1:O:177:ARG:HB2	1:O:213:LEU:HD11	2.01	0.43
1:O:179:ARG:HB2	1:O:209:PHE:HB3	2.00	0.43
1:O:417:LYS:O	1:O:452:ARG:NH2	2.42	0.43
1:P:124:ARG:NH1	1:P:142:GLU:OE2	2.51	0.43
1:Q:531:THR:OG1	1:Q:532:ALA:N	2.51	0.43
1:S:596:ALA:O	1:S:600:ARG:HB2	2.19	0.43
1:U:587:THR:OG1	1:U:588:PHE:N	2.52	0.43
1:V:165:ALA:HB2	1:V:205:LEU:HD13	2.00	0.43
1:V:404:SER:OG	1:V:405:THR:N	2.51	0.43
1:W:175:ARG:NH1	1:W:195:GLU:OE1	2.44	0.43
1:Z:155:LYS:HE2	1:Z:155:LYS:HB3	1.72	0.43
1:Z:170:PRO:HB2	1:a:233:ARG:HH11	1.83	0.43
1:Z:404:SER:OG	1:Z:405:THR:N	2.52	0.43
1:Z:468:VAL:HG12	1:Z:515:CYS:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:523:PHE:O	1:d:542:ALA:HA	2.18	0.43
1:e:409:THR:OG1	1:e:410:GLN:OE1	2.37	0.43
1:g:155:LYS:HE3	1:g:155:LYS:HB3	1.88	0.43
1:g:177:ARG:HB2	1:g:213:LEU:HD11	2.01	0.43
1:h:124:ARG:NH1	1:h:142:GLU:OE2	2.51	0.43
1:j:9:ARG:HE	1:j:9:ARG:HB3	1.55	0.43
1:l:130:GLU:OE1	1:l:136:LYS:HB3	2.18	0.43
1:l:175:ARG:NH1	1:l:195:GLU:OE1	2.44	0.43
1:o:7:ILE:HD12	1:o:36:ILE:HA	2.01	0.43
1:q:176:LEU:O	1:q:195:GLU:HA	2.18	0.43
1:u:7:ILE:HD12	1:u:36:ILE:HA	2.01	0.43
1:v:523:PHE:O	1:v:542:ALA:HA	2.18	0.43
1:w:627:VAL:HG12	1:w:634:VAL:HG22	2.01	0.43
1:x:755:THR:O	1:x:759:LEU:HB2	2.18	0.43
1:2:596:ALA:O	1:2:600:ARG:HB2	2.19	0.43
1:3:170:PRO:HB2	1:4:233:ARG:HH11	1.83	0.43
1:6:301:VAL:HG23	1:6:369:VAL:HG13	2.00	0.43
1:9:64:PRO:HD2	1:9:87:ASP:HB3	2.00	0.43
1:AA:9:ARG:HE	1:AA:9:ARG:HB3	1.55	0.43
1:AB:356:ARG:HA	1:AB:356:ARG:HD3	1.87	0.43
1:AD:179:ARG:HB2	1:AD:209:PHE:HB3	2.01	0.43
1:AF:468:VAL:HG12	1:AF:515:CYS:HA	2.00	0.43
1:AK:627:VAL:HG12	1:AK:634:VAL:HG22	2.01	0.43
1:AL:130:GLU:OE1	1:AL:136:LYS:HB3	2.18	0.43
1:AM:587:THR:OG1	1:AM:588:PHE:N	2.52	0.43
1:AN:579:VAL:O	1:AN:583:VAL:HB	2.19	0.43
1:D:124:ARG:NH1	1:D:142:GLU:OE2	2.51	0.43
1:D:404:SER:OG	1:D:405:THR:N	2.51	0.43
1:F:481:VAL:HG21	1:F:487:VAL:HB	2.00	0.43
1:G:627:VAL:HG12	1:G:634:VAL:HG22	2.01	0.43
1:G:761:ARG:HG2	1:H:755:THR:HG21	2.01	0.43
1:H:301:VAL:HG23	1:H:369:VAL:HG13	2.01	0.43
1:L:310:LEU:HD23	1:L:310:LEU:HA	1.92	0.43
1:M:122:HIS:NE2	1:M:142:GLU:OE1	2.46	0.43
1:N:755:THR:O	1:N:759:LEU:HB2	2.18	0.43
1:V:205:LEU:HD12	1:V:206:PRO:HD2	2.00	0.43
1:V:579:VAL:O	1:V:583:VAL:HB	2.19	0.43
1:X:120:ALA:HB2	1:X:205:LEU:HD21	1.99	0.43
1:X:529:ILE:HG22	1:X:537:LEU:HB2	2.00	0.43
1:Y:761:ARG:HG2	1:Z:755:THR:HG21	2.01	0.43
1:Z:64:PRO:HD2	1:Z:87:ASP:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:796:LYS:HE3	1:Z:796:LYS:HB3	1.44	0.43
1:Z:796:LYS:NZ	1:Z:797:GLN:HG3	2.34	0.43
1:d:9:ARG:HE	1:d:9:ARG:HB3	1.55	0.43
1:e:596:ALA:O	1:e:600:ARG:HB2	2.19	0.43
1:g:179:ARG:HB2	1:g:209:PHE:HB3	1.99	0.43
1:i:7:ILE:HD12	1:i:36:ILE:HA	2.01	0.43
1:k:827:LEU:HD13	1:l:795:PHE:CD1	2.49	0.43
1:o:404:SER:OG	1:o:405:THR:N	2.50	0.43
1:p:175:ARG:NH1	1:p:195:GLU:OE1	2.44	0.43
1:p:384:GLU:HA	1:p:403:GLY:HA2	2.00	0.43
1:s:587:THR:OG1	1:s:588:PHE:N	2.52	0.43
1:t:382:LEU:HD13	1:t:387:GLY:HA2	1.99	0.43
1:w:424:GLU:OE2	1:w:452:ARG:NH1	2.45	0.43
1:x:523:PHE:CZ	1:x:545:TRP:CG	3.06	0.43
1:0:301:VAL:HG23	1:0:369:VAL:HG13	2.00	0.43
1:1:177:ARG:HB2	1:1:213:LEU:HD11	2.01	0.43
1:3:755:THR:O	1:3:759:LEU:HB2	2.18	0.43
1:3:827:LEU:HD21	1:4:831:LEU:CB	2.46	0.43
1:5:124:ARG:NH1	1:5:142:GLU:OE2	2.51	0.43
1:5:404:SER:OG	1:5:405:THR:N	2.51	0.43
1:5:560:LYS:NZ	1:5:630:GLN:O	2.44	0.43
1:6:531:THR:OG1	1:6:532:ALA:N	2.51	0.43
1:7:481:VAL:HG21	1:7:487:VAL:HB	2.00	0.43
1:8:310:LEU:HD23	1:8:310:LEU:HA	1.91	0.43
1:8:424:GLU:OE2	1:8:452:ARG:NH1	2.45	0.43
1:AA:384:GLU:HA	1:AA:403:GLY:HA2	1.99	0.43
1:AB:382:LEU:HD13	1:AB:387:GLY:HA2	1.99	0.43
1:AC:531:THR:OG1	1:AC:532:ALA:N	2.51	0.43
1:AD:276:LEU:O	1:AD:305:GLU:HA	2.19	0.43
1:AG:177:ARG:HB2	1:AG:213:LEU:HD11	2.01	0.43
1:AJ:402:ILE:HD11	1:AJ:457:VAL:HG11	2.00	0.43
1:AJ:417:LYS:O	1:AJ:452:ARG:NH2	2.42	0.43
1:AK:587:THR:OG1	1:AK:588:PHE:N	2.51	0.43
1:AM:626:ALA:HB3	1:AM:635:VAL:HB	1.99	0.43
1:AO:155:LYS:HE3	1:AO:155:LYS:HB3	1.78	0.43
1:AO:301:VAL:HG23	1:AO:369:VAL:HG13	2.00	0.43
1:A:409:THR:OG1	1:A:410:GLN:OE1	2.37	0.43
1:D:310:LEU:HD23	1:D:310:LEU:HA	1.93	0.43
1:H:175:ARG:NH1	1:H:195:GLU:OE1	2.45	0.43
1:O:796:LYS:HB3	1:O:796:LYS:HE2	1.34	0.43
1:Q:328:GLU:O	1:Q:360:ARG:NH2	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:60:VAL:HG22	1:S:107:LYS:HB3	2.01	0.43
1:S:761:ARG:HG2	1:T:755:THR:HG21	2.01	0.43
1:T:411:ASP:OD1	1:T:411:ASP:N	2.50	0.43
1:T:560:LYS:NZ	1:T:630:GLN:O	2.43	0.43
1:T:755:THR:O	1:T:759:LEU:HB2	2.18	0.43
1:Y:175:ARG:NH1	1:Y:195:GLU:OE1	2.44	0.43
1:a:825:LEU:CD2	1:f:822:LEU:HB3	2.48	0.43
1:d:177:ARG:HB2	1:d:213:LEU:HD11	2.01	0.43
1:e:468:VAL:HG12	1:e:515:CYS:HA	2.00	0.43
1:f:796:LYS:NZ	1:f:797:GLN:HG3	2.34	0.43
1:h:837:THR:OG1	1:n:839:VAL:CB	2.66	0.43
1:i:124:ARG:NH1	1:i:142:GLU:OE2	2.51	0.43
1:i:417:LYS:O	1:i:452:ARG:NH2	2.42	0.43
1:i:531:THR:OG1	1:i:532:ALA:N	2.51	0.43
1:j:402:ILE:HD11	1:j:457:VAL:HG11	2.00	0.43
1:k:176:LEU:O	1:k:195:GLU:HA	2.18	0.43
1:k:417:LYS:O	1:k:452:ARG:NH2	2.42	0.43
1:n:115:VAL:HG11	1:n:121:LEU:HG	2.00	0.43
1:o:60:VAL:HG23	1:o:106:GLU:HB3	2.01	0.43
1:p:523:PHE:O	1:p:542:ALA:HA	2.18	0.43
1:q:486:LEU:H	1:r:476:LYS:HZ2	1.67	0.43
1:r:755:THR:O	1:r:759:LEU:HB2	2.18	0.43
1:w:122:HIS:NE2	1:w:142:GLU:OE1	2.46	0.43
1:1:219:VAL:HG11	1:1:227:LEU:HD13	2.00	0.43
1:1:529:ILE:HG22	1:1:537:LEU:HB2	2.00	0.43
1:4:17:HIS:NE2	1:4:99:LEU:O	2.37	0.43
1:8:17:HIS:NE2	1:8:99:LEU:O	2.36	0.43
1:9:755:THR:O	1:9:759:LEU:HB2	2.18	0.43
1:AB:579:VAL:O	1:AB:583:VAL:HB	2.19	0.43
1:AC:60:VAL:HG23	1:AC:106:GLU:HB3	2.01	0.43
1:AE:310:LEU:HD11	1:AE:316:LEU:HG	2.00	0.43
1:AE:382:LEU:HD13	1:AE:387:GLY:HA2	1.99	0.43
1:AE:468:VAL:HG12	1:AE:515:CYS:HA	2.00	0.43
1:AF:755:THR:O	1:AF:759:LEU:HB2	2.18	0.43
1:AG:587:THR:OG1	1:AG:588:PHE:N	2.52	0.43
1:AI:7:ILE:HD12	1:AI:36:ILE:HA	2.01	0.43
1:AK:596:ALA:O	1:AK:600:ARG:HB2	2.19	0.43
1:AL:411:ASP:OD1	1:AL:411:ASP:N	2.50	0.43
1:D:55:LEU:HD13	1:D:93:THR:HG21	1.99	0.43
1:G:176:LEU:O	1:G:195:GLU:HA	2.18	0.43
1:H:529:ILE:HD13	1:H:579:VAL:HG12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:155:LYS:HE3	1:K:155:LYS:HB3	1.78	0.43
1:M:60:VAL:HG22	1:M:107:LYS:HB3	2.01	0.43
1:N:301:VAL:HG23	1:N:369:VAL:HG13	2.01	0.43
1:N:474:ARG:HB2	1:N:492:GLU:HB2	2.01	0.43
1:N:769:GLU:OE2	1:O:766:ARG:NH1	2.42	0.43
1:P:424:GLU:OE2	1:P:452:ARG:NH1	2.45	0.43
1:R:175:ARG:NH1	1:R:195:GLU:OE1	2.44	0.43
1:R:523:PHE:O	1:R:542:ALA:HA	2.18	0.43
1:U:384:GLU:HA	1:U:403:GLY:HA2	1.99	0.43
1:V:115:VAL:HG11	1:V:121:LEU:HG	2.00	0.43
1:V:124:ARG:NH1	1:V:142:GLU:OE2	2.51	0.43
1:W:417:LYS:O	1:W:452:ARG:NH2	2.42	0.43
1:X:177:ARG:HB2	1:X:213:LEU:HD11	2.01	0.43
1:X:523:PHE:O	1:X:542:ALA:HA	2.18	0.43
1:Y:417:LYS:O	1:Y:452:ARG:NH2	2.42	0.43
1:Y:826:GLY:HA3	1:Z:794:LYS:NZ	2.34	0.43
1:Z:301:VAL:HG23	1:Z:369:VAL:HG13	2.01	0.43
1:c:647:ASP:OD2	1:c:650:THR:OG1	2.32	0.43
1:d:128:ASP:OD1	1:d:138:VAL:HA	2.19	0.43
1:d:179:ARG:HB2	1:d:209:PHE:HB3	2.01	0.43
1:d:384:GLU:HA	1:d:403:GLY:HA2	2.00	0.43
1:d:402:ILE:HD11	1:d:457:VAL:HG11	2.00	0.43
1:e:587:THR:OG1	1:e:588:PHE:N	2.51	0.43
1:f:64:PRO:HD2	1:f:87:ASP:HB3	2.00	0.43
1:h:115:VAL:HG11	1:h:121:LEU:HG	2.00	0.43
1:j:177:ARG:HB2	1:j:213:LEU:HD11	2.01	0.43
1:j:179:ARG:HB2	1:j:209:PHE:HB3	2.01	0.43
1:k:761:ARG:HG2	1:l:755:THR:HG21	2.01	0.43
1:l:55:LEU:HD13	1:l:93:THR:HG21	2.00	0.43
1:l:301:VAL:HG23	1:l:369:VAL:HG13	2.01	0.43
1:l:796:LYS:NZ	1:l:797:GLN:HG3	2.34	0.43
1:m:179:ARG:HB2	1:m:209:PHE:HB3	2.00	0.43
1:p:503:GLY:O	1:p:506:LYS:NZ	2.47	0.43
1:q:411:ASP:OD1	1:q:411:ASP:N	2.43	0.43
1:q:587:THR:OG1	1:q:588:PHE:N	2.51	0.43
1:v:177:ARG:HB2	1:v:213:LEU:HD11	2.01	0.43
1:v:219:VAL:HG11	1:v:227:LEU:HD13	2.00	0.43
1:x:301:VAL:HG23	1:x:369:VAL:HG13	2.01	0.43
1:x:310:LEU:HD23	1:x:310:LEU:HA	1.92	0.43
1:x:474:ARG:HB2	1:x:492:GLU:HB2	2.01	0.43
1:x:796:LYS:NZ	1:x:797:GLN:HG3	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:122:HIS:NE2	1:z:142:GLU:OE1	2.49	0.43
1:z:476:LYS:HZ2	1:6:486:LEU:H	1.66	0.43
1:1:128:ASP:OD1	1:1:138:VAL:HA	2.19	0.43
1:2:424:GLU:OE2	1:2:452:ARG:NH1	2.45	0.43
1:2:627:VAL:HG12	1:2:634:VAL:HG22	2.01	0.43
1:3:122:HIS:NE2	1:3:142:GLU:OE1	2.52	0.43
1:3:474:ARG:HB2	1:3:492:GLU:HB2	2.01	0.43
1:4:626:ALA:HB3	1:4:635:VAL:HB	1.99	0.43
1:7:177:ARG:HB2	1:7:213:LEU:HD11	2.01	0.43
1:7:179:ARG:HB2	1:7:209:PHE:HB3	2.01	0.43
1:8:122:HIS:NE2	1:8:142:GLU:OE1	2.46	0.43
1:9:350:SER:O	1:9:350:SER:OG	2.31	0.43
1:9:382:LEU:HD13	1:9:387:GLY:HA2	1.99	0.43
1:9:404:SER:OG	1:9:405:THR:N	2.52	0.43
1:AA:175:ARG:NH1	1:AA:195:GLU:OE1	2.45	0.43
1:AE:627:VAL:HG12	1:AE:634:VAL:HG22	2.01	0.43
1:AI:301:VAL:HG23	1:AI:369:VAL:HG13	2.00	0.43
1:AJ:128:ASP:OD1	1:AJ:138:VAL:HA	2.19	0.43
1:AJ:179:ARG:HB2	1:AJ:209:PHE:HB3	2.01	0.43
1:AK:90:ILE:H	1:AK:90:ILE:HG13	1.65	0.43
1:AL:404:SER:OG	1:AL:405:THR:N	2.52	0.43
1:AL:755:THR:O	1:AL:759:LEU:HB2	2.18	0.43
1:AP:9:ARG:HE	1:AP:9:ARG:HB3	1.55	0.43
1:AP:481:VAL:HG21	1:AP:487:VAL:HB	2.00	0.43
1:A:627:VAL:HG12	1:A:634:VAL:HG22	2.01	0.43
1:D:165:ALA:HB2	1:D:205:LEU:HD13	2.00	0.43
1:G:409:THR:OG1	1:G:410:GLN:OE1	2.37	0.43
1:H:424:GLU:OE2	1:H:452:ARG:NH1	2.45	0.43
1:M:175:ARG:NH1	1:M:195:GLU:OE1	2.44	0.43
1:N:404:SER:OG	1:N:405:THR:N	2.52	0.43
1:S:310:LEU:HD11	1:S:316:LEU:HG	2.00	0.43
1:V:201:VAL:HG12	1:X:191:VAL:HG21	2.01	0.43
1:V:837:THR:OG1	1:b:839:VAL:CB	2.66	0.43
1:X:402:ILE:HD11	1:X:457:VAL:HG11	2.00	0.43
1:a:384:GLU:HA	1:a:403:GLY:HA2	1.99	0.43
1:b:64:PRO:HD2	1:b:87:ASP:HB3	2.01	0.43
1:c:7:ILE:HD12	1:c:36:ILE:HA	2.01	0.43
1:d:276:LEU:O	1:d:305:GLU:HA	2.19	0.43
1:d:529:ILE:HG22	1:d:537:LEU:HB2	2.00	0.43
1:f:55:LEU:HD13	1:f:93:THR:HG21	2.00	0.43
1:f:755:THR:O	1:f:759:LEU:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:136:LYS:HZ1	1:g:138:VAL:HB	1.84	0.43
1:h:124:ARG:HB3	1:h:160:LEU:HD21	2.01	0.43
1:k:310:LEU:HD11	1:k:316:LEU:HG	2.00	0.43
1:l:404:SER:OG	1:l:405:THR:N	2.52	0.43
1:m:177:ARG:HB2	1:m:213:LEU:HD11	2.01	0.43
1:p:120:ALA:HB2	1:p:205:LEU:HD21	1.99	0.43
1:q:627:VAL:HG12	1:q:634:VAL:HG22	2.01	0.43
1:r:474:ARG:HB2	1:r:492:GLU:HB2	2.01	0.43
1:r:486:LEU:H	1:s:476:LYS:HZ2	1.67	0.43
1:t:205:LEU:HD12	1:t:206:PRO:HD2	2.00	0.43
1:t:404:SER:OG	1:t:405:THR:N	2.51	0.43
1:u:60:VAL:HG23	1:u:106:GLU:HB3	2.01	0.43
1:v:128:ASP:OD1	1:v:138:VAL:HA	2.19	0.43
1:v:366:VAL:HA	1:v:367:PRO:HD3	1.91	0.43
1:v:529:ILE:HG22	1:v:537:LEU:HB2	2.00	0.43
1:w:17:HIS:NE2	1:w:99:LEU:O	2.36	0.43
1:w:90:ILE:H	1:w:90:ILE:HG13	1.65	0.43
1:w:486:LEU:H	1:x:476:LYS:HZ2	1.67	0.43
1:x:404:SER:OG	1:x:405:THR:N	2.52	0.43
1:y:587:THR:OG1	1:y:588:PHE:N	2.52	0.43
1:0:841:LEU:H	1:6:824:SER:HG	1.66	0.43
1:2:600:ARG:HB2	1:2:600:ARG:HE	1.65	0.43
1:3:301:VAL:HG23	1:3:369:VAL:HG13	2.01	0.43
1:3:796:LYS:NZ	1:3:797:GLN:HG3	2.34	0.43
1:5:579:VAL:O	1:5:583:VAL:HB	2.19	0.43
1:7:276:LEU:O	1:7:305:GLU:HA	2.19	0.43
1:8:486:LEU:H	1:9:476:LYS:HZ2	1.67	0.43
1:9:170:PRO:HB2	1:AA:233:ARG:HH11	1.83	0.43
1:9:474:ARG:HB2	1:9:492:GLU:HB2	2.01	0.43
1:AA:626:ALA:HB3	1:AA:635:VAL:HB	1.99	0.43
1:AB:165:ALA:HB2	1:AB:205:LEU:HD13	2.00	0.43
1:AC:301:VAL:HG23	1:AC:369:VAL:HG13	2.00	0.43
1:AC:841:LEU:H	1:AI:824:SER:HG	1.66	0.43
1:AD:481:VAL:HG21	1:AD:487:VAL:HB	2.00	0.43
1:AD:523:PHE:O	1:AD:542:ALA:HA	2.18	0.43
1:AF:55:LEU:HD13	1:AF:93:THR:HG21	2.00	0.43
1:AF:404:SER:OG	1:AF:405:THR:N	2.52	0.43
1:AH:124:ARG:NH1	1:AH:142:GLU:OE2	2.51	0.43
1:AH:404:SER:OG	1:AH:405:THR:N	2.51	0.43
1:AP:293:LYS:HE2	1:AP:293:LYS:HB3	1.86	0.43
1:A:486:LEU:H	1:B:476:LYS:HZ2	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:761:ARG:HG2	1:B:755:THR:HG21	2.01	0.43
1:B:301:VAL:HG23	1:B:369:VAL:HG13	2.01	0.43
1:B:529:ILE:HD13	1:B:579:VAL:HG12	2.01	0.43
1:C:124:ARG:HB3	1:C:160:LEU:HD21	2.01	0.43
1:F:384:GLU:HA	1:F:403:GLY:HA2	2.00	0.43
1:H:474:ARG:HB2	1:H:492:GLU:HB2	2.01	0.43
1:H:523:PHE:CZ	1:H:545:TRP:CG	3.06	0.43
1:J:55:LEU:HD13	1:J:93:THR:HG21	1.99	0.43
1:M:596:ALA:O	1:M:600:ARG:HB2	2.19	0.43
1:M:627:VAL:HG12	1:M:634:VAL:HG22	2.01	0.43
1:M:795:PHE:CD1	1:M:846:PHE:HE1	2.37	0.43
1:N:382:LEU:HD13	1:N:387:GLY:HA2	1.99	0.43
1:Q:7:ILE:HD12	1:Q:36:ILE:HA	2.01	0.43
1:R:177:ARG:HB2	1:R:213:LEU:HD11	2.01	0.43
1:S:175:ARG:NH1	1:S:195:GLU:OE1	2.44	0.43
1:S:409:THR:OG1	1:S:410:GLN:OE1	2.37	0.43
1:S:486:LEU:H	1:T:476:LYS:HZ2	1.67	0.43
1:T:474:ARG:HB2	1:T:492:GLU:HB2	2.01	0.43
1:W:7:ILE:HD12	1:W:36:ILE:HA	2.01	0.43
1:X:115:VAL:HG11	1:X:121:LEU:HG	2.01	0.43
1:Y:409:THR:OG1	1:Y:410:GLN:OE1	2.37	0.43
1:b:17:HIS:NE2	1:b:99:LEU:O	2.37	0.43
1:b:124:ARG:HB3	1:b:160:LEU:HD21	2.01	0.43
1:e:176:LEU:O	1:e:195:GLU:HA	2.18	0.43
1:e:761:ARG:HG2	1:f:755:THR:HG21	2.01	0.43
1:h:503:GLY:O	1:h:506:LYS:NZ	2.49	0.43
1:j:115:VAL:HG11	1:j:121:LEU:HG	2.01	0.43
1:j:779:LEU:HD12	1:j:779:LEU:HA	1.92	0.43
1:m:62:ALA:HB3	1:m:104:LEU:HB3	2.01	0.43
1:m:587:THR:OG1	1:m:588:PHE:N	2.52	0.43
1:p:779:LEU:HD12	1:p:779:LEU:HA	1.92	0.43
1:q:417:LYS:O	1:q:452:ARG:NH2	2.42	0.43
1:r:170:PRO:HB2	1:s:233:ARG:HH11	1.83	0.43
1:t:326:LEU:HD11	1:t:332:LEU:HG	2.01	0.43
1:w:840:ASN:OD1	1:w:840:ASN:N	2.45	0.43
1:x:64:PRO:HD2	1:x:87:ASP:HB3	2.00	0.43
1:4:587:THR:OG1	1:4:588:PHE:N	2.52	0.43
1:6:60:VAL:HG23	1:6:106:GLU:HB3	2.01	0.43
1:AB:837:THR:OG1	1:AH:839:VAL:CB	2.66	0.43
1:AF:17:HIS:NE2	1:AF:99:LEU:O	2.38	0.43
1:AG:122:HIS:NE2	1:AG:142:GLU:OE1	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:350:SER:O	1:AH:350:SER:OG	2.32	0.43
1:AI:531:THR:OG1	1:AI:532:ALA:N	2.51	0.43
1:AJ:481:VAL:HG21	1:AJ:487:VAL:HB	2.00	0.43
1:AL:382:LEU:HD13	1:AL:387:GLY:HA2	1.99	0.43
1:AL:468:VAL:HG12	1:AL:515:CYS:HA	2.00	0.43
1:AM:8:ILE:O	1:AM:35:TYR:N	2.52	0.43
1:AM:796:LYS:HE2	1:AM:796:LYS:HB3	1.33	0.43
1:AP:128:ASP:OD1	1:AP:138:VAL:HA	2.19	0.43
1:C:503:GLY:O	1:C:506:LYS:NZ	2.47	0.42
1:D:201:VAL:HG12	1:F:191:VAL:HG21	2.01	0.42
1:E:7:ILE:HD12	1:E:36:ILE:HA	2.01	0.42
1:G:60:VAL:HG22	1:G:107:LYS:HB3	2.01	0.42
1:H:468:VAL:HG12	1:H:515:CYS:HA	2.00	0.42
1:I:175:ARG:NH1	1:I:195:GLU:OE1	2.45	0.42
1:K:7:ILE:HD12	1:K:36:ILE:HA	2.01	0.42
1:L:128:ASP:OD1	1:L:138:VAL:HA	2.19	0.42
1:N:468:VAL:HG12	1:N:515:CYS:HA	2.00	0.42
1:N:529:ILE:HD13	1:N:579:VAL:HG12	2.01	0.42
1:P:115:VAL:HG11	1:P:121:LEU:HG	2.00	0.42
1:P:201:VAL:HG12	1:R:191:VAL:HG21	2.01	0.42
1:R:128:ASP:OD1	1:R:138:VAL:HA	2.19	0.42
1:R:402:ILE:HD11	1:R:457:VAL:HG11	2.00	0.42
1:T:468:VAL:HG12	1:T:515:CYS:HA	2.00	0.42
1:V:64:PRO:HD2	1:V:87:ASP:HB3	2.01	0.42
1:W:326:LEU:HD11	1:W:332:LEU:HG	2.01	0.42
1:X:276:LEU:O	1:X:305:GLU:HA	2.19	0.42
1:Y:60:VAL:HG22	1:Y:107:LYS:HB3	2.01	0.42
1:a:179:ARG:HB2	1:a:209:PHE:HB3	2.00	0.42
1:b:201:VAL:HG12	1:d:191:VAL:HG21	2.01	0.42
1:c:841:LEU:H	1:i:824:SER:HG	1.67	0.42
1:e:310:LEU:HD11	1:e:316:LEU:HG	2.00	0.42
1:e:826:GLY:HA3	1:f:794:LYS:NZ	2.34	0.42
1:h:424:GLU:OE2	1:h:452:ARG:NH1	2.45	0.42
1:k:627:VAL:HG12	1:k:634:VAL:HG22	2.01	0.42
1:l:755:THR:O	1:l:759:LEU:HB2	2.18	0.42
1:n:122:HIS:NE2	1:n:142:GLU:OE1	2.49	0.42
1:n:124:ARG:HB3	1:n:160:LEU:HD21	2.01	0.42
1:n:165:ALA:HB2	1:n:205:LEU:HD13	2.00	0.42
1:n:476:LYS:HZ2	1:u:486:LEU:H	1.67	0.42
1:o:155:LYS:HE3	1:o:155:LYS:HB3	1.78	0.42
1:p:177:ARG:HB2	1:p:213:LEU:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:64:PRO:HD2	1:r:87:ASP:HB3	2.00	0.42
1:s:62:ALA:HB3	1:s:104:LEU:HB3	2.01	0.42
1:s:179:ARG:HB2	1:s:209:PHE:HB3	2.00	0.42
1:v:129:PHE:CD2	1:v:156:GLU:HB3	2.38	0.42
1:v:384:GLU:HA	1:v:403:GLY:HA2	2.00	0.42
1:w:177:ARG:HB2	1:w:195:GLU:HG2	2.01	0.42
1:x:839:VAL:HB	1:3:837:THR:OG1	2.19	0.42
1:z:326:LEU:HD11	1:z:332:LEU:HG	2.01	0.42
1:z:766:ARG:NH1	1:6:772:TYR:HB2	2.34	0.42
1:1:17:HIS:NE2	1:1:99:LEU:O	2.38	0.42
1:2:177:ARG:HB2	1:2:195:GLU:HG2	2.01	0.42
1:2:731:GLU:OE1	1:3:723:LYS:NZ	2.52	0.42
1:3:55:LEU:HD13	1:3:93:THR:HG21	2.00	0.42
1:3:529:ILE:HD13	1:3:579:VAL:HG12	2.01	0.42
1:8:310:LEU:HD11	1:8:316:LEU:HG	2.00	0.42
1:8:731:GLU:OE1	1:9:723:LYS:NZ	2.52	0.42
1:8:794:LYS:HZ3	1:8:851:LEU:CD2	2.31	0.42
1:9:55:LEU:HD13	1:9:93:THR:HG21	2.00	0.42
1:AA:8:ILE:O	1:AA:35:TYR:N	2.52	0.42
1:AA:177:ARG:HB2	1:AA:213:LEU:HD11	2.01	0.42
1:AF:796:LYS:NZ	1:AF:797:GLN:HG3	2.34	0.42
1:AF:839:VAL:HB	1:AL:837:THR:OG1	2.19	0.42
1:AK:761:ARG:HG2	1:AL:755:THR:HG21	2.01	0.42
1:AL:55:LEU:HD13	1:AL:93:THR:HG21	2.00	0.42
1:AL:301:VAL:HG23	1:AL:369:VAL:HG13	2.01	0.42
1:AL:796:LYS:NZ	1:AL:797:GLN:HG3	2.34	0.42
1:AO:76:ASP:OD1	1:AO:78:THR:OG1	2.28	0.42
1:B:64:PRO:HD2	1:B:87:ASP:HB3	2.00	0.42
1:B:468:VAL:HG12	1:B:515:CYS:HA	2.00	0.42
1:C:8:ILE:O	1:C:35:TYR:N	2.52	0.42
1:D:837:THR:HG1	1:J:839:VAL:HB	1.83	0.42
1:F:128:ASP:OD1	1:F:138:VAL:HA	2.19	0.42
1:F:411:ASP:OD1	1:F:411:ASP:N	2.41	0.42
1:G:404:SER:OG	1:G:405:THR:N	2.50	0.42
1:I:8:ILE:O	1:I:35:TYR:N	2.52	0.42
1:I:124:ARG:HB3	1:I:160:LEU:HD21	2.01	0.42
1:J:201:VAL:HG12	1:L:191:VAL:HG21	2.01	0.42
1:M:338:GLN:HB2	1:M:370:LYS:HB3	2.02	0.42
1:O:155:LYS:HE3	1:O:155:LYS:HB3	1.88	0.42
1:Q:326:LEU:HD11	1:Q:332:LEU:HG	2.01	0.42
1:S:826:GLY:HA3	1:T:794:LYS:NZ	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:796:LYS:NZ	1:T:797:GLN:HG3	2.34	0.42
1:U:825:LEU:CD2	1:Z:822:LEU:HB3	2.48	0.42
1:W:128:ASP:HB3	1:W:136:LYS:HZ1	1.84	0.42
1:Y:176:LEU:O	1:Y:195:GLU:HA	2.18	0.42
1:Y:731:GLU:OE1	1:Z:723:LYS:NZ	2.52	0.42
1:Z:55:LEU:HD13	1:Z:93:THR:HG21	2.00	0.42
1:a:387:GLY:HA3	1:a:402:ILE:HD13	2.02	0.42
1:d:115:VAL:HG11	1:d:121:LEU:HG	2.01	0.42
1:f:205:LEU:HD12	1:f:206:PRO:HD2	2.02	0.42
1:h:175:ARG:NH1	1:h:195:GLU:OE1	2.44	0.42
1:h:579:VAL:O	1:h:583:VAL:HB	2.19	0.42
1:j:155:LYS:HE3	1:j:155:LYS:HB3	1.89	0.42
1:j:175:ARG:NH1	1:j:195:GLU:OE1	2.44	0.42
1:j:529:ILE:HG22	1:j:537:LEU:HB2	2.00	0.42
1:k:826:GLY:HA3	1:l:794:LYS:NZ	2.34	0.42
1:k:827:LEU:HD22	1:l:795:PHE:CD1	2.50	0.42
1:n:55:LEU:HD13	1:n:93:THR:HG21	1.99	0.42
1:n:64:PRO:HD2	1:n:87:ASP:HB3	2.01	0.42
1:n:326:LEU:HD11	1:n:332:LEU:HG	2.01	0.42
1:p:179:ARG:HB2	1:p:209:PHE:HB3	2.01	0.42
1:q:310:LEU:HD11	1:q:316:LEU:HG	2.00	0.42
1:r:796:LYS:NZ	1:r:797:GLN:HG3	2.34	0.42
1:r:839:VAL:HB	1:x:837:THR:OG1	2.19	0.42
1:s:177:ARG:HB2	1:s:213:LEU:HD11	2.01	0.42
1:t:579:VAL:O	1:t:583:VAL:HB	2.19	0.42
1:v:276:LEU:O	1:v:305:GLU:HA	2.18	0.42
1:y:411:ASP:OD1	1:y:411:ASP:N	2.41	0.42
1:y:503:GLY:O	1:y:506:LYS:NZ	2.47	0.42
1:0:155:LYS:HE3	1:0:155:LYS:HB3	1.78	0.42
1:1:179:ARG:HB2	1:1:209:PHE:HB3	2.01	0.42
1:1:276:LEU:O	1:1:305:GLU:HA	2.19	0.42
1:2:310:LEU:HD11	1:2:316:LEU:HG	2.00	0.42
1:4:62:ALA:HB3	1:4:104:LEU:HB3	2.01	0.42
1:4:177:ARG:HB2	1:4:213:LEU:HD11	2.01	0.42
1:4:179:ARG:HB2	1:4:209:PHE:HB3	2.00	0.42
1:4:279:GLN:HE21	1:8:338:GLN:HE21	1.68	0.42
1:5:326:LEU:HD11	1:5:332:LEU:HG	2.01	0.42
1:5:766:ARG:NH1	1:AC:772:TYR:HB2	2.34	0.42
1:5:827:LEU:HD21	1:7:831:LEU:CB	2.46	0.42
1:8:177:ARG:HB2	1:8:195:GLU:HG2	2.01	0.42
1:8:417:LYS:O	1:8:452:ARG:NH2	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:301:VAL:HG23	1:9:369:VAL:HG13	2.01	0.42
1:AA:279:GLN:HE21	1:AE:338:GLN:HE21	1.68	0.42
1:AA:293:LYS:HE2	1:AA:293:LYS:HB3	1.86	0.42
1:AB:124:ARG:NH1	1:AB:142:GLU:OE2	2.51	0.42
1:AB:205:LEU:HD12	1:AB:206:PRO:HD2	2.00	0.42
1:AD:7:ILE:HD12	1:AD:36:ILE:HG23	2.02	0.42
1:AD:177:ARG:HB2	1:AD:213:LEU:HD11	2.01	0.42
1:AF:301:VAL:HG23	1:AF:369:VAL:HG13	2.01	0.42
1:AF:474:ARG:HB2	1:AF:492:GLU:HB2	2.01	0.42
1:AH:579:VAL:O	1:AH:583:VAL:HB	2.19	0.42
1:AI:68:ASP:OD1	1:AI:68:ASP:N	2.51	0.42
1:AI:175:ARG:NH1	1:AI:195:GLU:OE1	2.44	0.42
1:AK:424:GLU:OE2	1:AK:452:ARG:NH1	2.45	0.42
1:AK:486:LEU:H	1:AL:476:LYS:HZ2	1.66	0.42
1:AM:124:ARG:HB3	1:AM:160:LEU:HD21	2.01	0.42
1:AO:7:ILE:HD12	1:AO:36:ILE:HA	2.01	0.42
1:AP:179:ARG:HB2	1:AP:209:PHE:HB3	2.01	0.42
1:A:60:VAL:HG22	1:A:107:LYS:HB3	2.01	0.42
1:A:826:GLY:HA3	1:B:794:LYS:NZ	2.34	0.42
1:K:76:ASP:OD1	1:K:78:THR:OG1	2.28	0.42
1:P:205:LEU:HD12	1:P:206:PRO:HD2	2.00	0.42
1:P:579:VAL:O	1:P:583:VAL:HB	2.19	0.42
1:R:384:GLU:HA	1:R:403:GLY:HA2	2.00	0.42
1:T:99:LEU:HD23	1:T:99:LEU:HA	1.94	0.42
1:U:8:ILE:O	1:U:35:TYR:N	2.52	0.42
1:V:124:ARG:HB3	1:V:160:LEU:HD21	2.01	0.42
1:V:291:ASP:OD1	1:V:291:ASP:N	2.49	0.42
1:W:531:THR:OG1	1:W:532:ALA:N	2.51	0.42
1:X:128:ASP:OD1	1:X:138:VAL:HA	2.19	0.42
1:X:175:ARG:NH1	1:X:195:GLU:OE1	2.44	0.42
1:X:179:ARG:HB2	1:X:209:PHE:HB3	2.01	0.42
1:a:279:GLN:HE21	1:e:338:GLN:HE21	1.68	0.42
1:a:587:THR:OG1	1:a:588:PHE:N	2.52	0.42
1:c:531:THR:OG1	1:c:532:ALA:N	2.51	0.42
1:e:627:VAL:HG12	1:e:634:VAL:HG22	2.01	0.42
1:e:827:LEU:HD22	1:f:795:PHE:CD1	2.50	0.42
1:h:356:ARG:HA	1:h:356:ARG:HD3	1.87	0.42
1:i:128:ASP:HB3	1:i:136:LYS:HZ1	1.84	0.42
1:k:338:GLN:HB2	1:k:370:LYS:HB3	2.02	0.42
1:m:387:GLY:HA3	1:m:402:ILE:HD13	2.02	0.42
1:n:404:SER:OG	1:n:405:THR:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:276:LEU:O	1:p:305:GLU:HA	2.19	0.42
1:q:177:ARG:HB2	1:q:195:GLU:HG2	2.01	0.42
1:t:64:PRO:HD2	1:t:87:ASP:HB3	2.01	0.42
1:t:766:ARG:NH1	1:0:772:TYR:HB2	2.34	0.42
1:w:60:VAL:HG22	1:w:107:LYS:HB3	2.01	0.42
1:w:338:GLN:HB2	1:w:370:LYS:HB3	2.02	0.42
1:y:62:ALA:HB3	1:y:104:LEU:HB3	2.01	0.42
1:y:177:ARG:HB2	1:y:213:LEU:HD11	2.01	0.42
1:y:179:ARG:HB2	1:y:209:PHE:HB3	2.00	0.42
1:z:579:VAL:O	1:z:583:VAL:HB	2.19	0.42
1:0:424:GLU:OE2	1:0:452:ARG:NH1	2.45	0.42
1:2:60:VAL:HG22	1:2:107:LYS:HB3	2.01	0.42
1:5:165:ALA:HB2	1:5:205:LEU:HD13	2.00	0.42
1:7:417:LYS:O	1:7:452:ARG:NH2	2.42	0.42
1:7:523:PHE:O	1:7:542:ALA:HA	2.18	0.42
1:8:60:VAL:HG22	1:8:107:LYS:HB3	2.01	0.42
1:8:155:LYS:HE3	1:8:155:LYS:HB3	1.77	0.42
1:9:529:ILE:HD13	1:9:579:VAL:HG12	2.01	0.42
1:AA:62:ALA:HB3	1:AA:104:LEU:HB3	2.01	0.42
1:AA:587:THR:OG1	1:AA:588:PHE:N	2.52	0.42
1:AB:326:LEU:HD11	1:AB:332:LEU:HG	2.01	0.42
1:AC:175:ARG:NH1	1:AC:195:GLU:OE1	2.44	0.42
1:AC:177:ARG:HB2	1:AC:195:GLU:HG2	2.01	0.42
1:AF:155:LYS:HE2	1:AF:155:LYS:HB3	1.72	0.42
1:AK:468:VAL:HG12	1:AK:515:CYS:HA	2.00	0.42
1:AM:9:ARG:HE	1:AM:9:ARG:HB3	1.55	0.42
1:AP:402:ILE:HD11	1:AP:457:VAL:HG11	2.00	0.42
1:A:596:ALA:O	1:A:600:ARG:HB2	2.19	0.42
1:A:795:PHE:CD1	1:A:846:PHE:HE1	2.37	0.42
1:H:55:LEU:HD13	1:H:93:THR:HG21	2.00	0.42
1:I:387:GLY:HA3	1:I:402:ILE:HD13	2.02	0.42
1:J:356:ARG:HD3	1:J:356:ARG:HA	1.87	0.42
1:K:326:LEU:HD11	1:K:332:LEU:HG	2.01	0.42
1:L:115:VAL:HG11	1:L:121:LEU:HG	2.01	0.42
1:L:136:LYS:HZ1	1:L:138:VAL:HB	1.85	0.42
1:M:176:LEU:O	1:M:195:GLU:HA	2.18	0.42
1:M:409:THR:OG1	1:M:410:GLN:OE1	2.37	0.42
1:M:827:LEU:HD13	1:N:795:PHE:CD1	2.49	0.42
1:O:115:VAL:HG11	1:O:121:LEU:HG	2.01	0.42
1:P:356:ARG:HD3	1:P:356:ARG:HA	1.87	0.42
1:S:176:LEU:O	1:S:195:GLU:HA	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:839:VAL:HB	1:Z:837:THR:OG1	2.19	0.42
1:U:115:VAL:HG11	1:U:121:LEU:HG	2.01	0.42
1:Y:310:LEU:HD11	1:Y:316:LEU:HG	2.00	0.42
1:Y:338:GLN:HB2	1:Y:370:LYS:HB3	2.02	0.42
1:Y:468:VAL:HG12	1:Y:515:CYS:HA	2.00	0.42
1:Y:627:VAL:HG12	1:Y:634:VAL:HG22	2.01	0.42
1:Z:474:ARG:HB2	1:Z:492:GLU:HB2	2.01	0.42
1:a:8:ILE:O	1:a:35:TYR:N	2.52	0.42
1:a:115:VAL:HG11	1:a:121:LEU:HG	2.01	0.42
1:b:115:VAL:HG11	1:b:121:LEU:HG	2.00	0.42
1:c:326:LEU:HD11	1:c:332:LEU:HG	2.01	0.42
1:d:175:ARG:NH1	1:d:195:GLU:OE1	2.44	0.42
1:e:60:VAL:HG22	1:e:107:LYS:HB3	2.01	0.42
1:g:62:ALA:HB3	1:g:104:LEU:HB3	2.01	0.42
1:h:64:PRO:HD2	1:h:87:ASP:HB3	2.01	0.42
1:i:177:ARG:HB2	1:i:195:GLU:HG2	2.01	0.42
1:j:276:LEU:O	1:j:305:GLU:HA	2.19	0.42
1:j:356:ARG:HE	1:j:356:ARG:HB2	1.74	0.42
1:l:474:ARG:HB2	1:l:492:GLU:HB2	2.01	0.42
1:n:201:VAL:HG12	1:p:191:VAL:HG21	2.01	0.42
1:p:115:VAL:HG11	1:p:121:LEU:HG	2.01	0.42
1:p:356:ARG:HE	1:p:356:ARG:HB2	1.73	0.42
1:p:529:ILE:HG22	1:p:537:LEU:HB2	2.00	0.42
1:q:731:GLU:OE1	1:r:723:LYS:NZ	2.52	0.42
1:w:310:LEU:HD11	1:w:316:LEU:HG	2.00	0.42
1:w:731:GLU:OE1	1:x:723:LYS:NZ	2.52	0.42
1:x:529:ILE:HD13	1:x:579:VAL:HG12	2.01	0.42
1:0:68:ASP:OD1	1:0:68:ASP:N	2.51	0.42
1:1:39:ASP:O	1:1:42:ARG:NH2	2.52	0.42
1:1:384:GLU:HA	1:1:403:GLY:HA2	2.00	0.42
1:3:64:PRO:HD2	1:3:87:ASP:HB3	2.00	0.42
1:4:155:LYS:HE3	1:4:155:LYS:HB3	1.88	0.42
1:4:387:GLY:HA3	1:4:402:ILE:HD13	2.02	0.42
1:6:177:ARG:HB2	1:6:195:GLU:HG2	2.01	0.42
1:AG:626:ALA:HB3	1:AG:635:VAL:HB	1.99	0.42
1:AH:205:LEU:HD12	1:AH:206:PRO:HD2	2.00	0.42
1:AI:177:ARG:HB2	1:AI:195:GLU:HG2	2.01	0.42
1:AJ:7:ILE:HD12	1:AJ:36:ILE:HG23	2.01	0.42
1:AL:64:PRO:HD2	1:AL:87:ASP:HB3	2.00	0.42
1:AL:122:HIS:NE2	1:AL:142:GLU:OE1	2.52	0.42
1:A:600:ARG:HB2	1:A:600:ARG:HE	1.65	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:731:GLU:OE1	1:B:723:LYS:NZ	2.52	0.42
1:B:474:ARG:HB2	1:B:492:GLU:HB2	2.01	0.42
1:C:9:ARG:HE	1:C:9:ARG:HB3	1.55	0.42
1:C:587:THR:OG1	1:C:588:PHE:N	2.52	0.42
1:D:424:GLU:OE2	1:D:452:ARG:NH1	2.45	0.42
1:E:772:TYR:HB2	1:AN:766:ARG:NH1	2.34	0.42
1:F:402:ILE:HD11	1:F:457:VAL:HG11	2.00	0.42
1:G:338:GLN:HB2	1:G:370:LYS:HB3	2.02	0.42
1:H:404:SER:OG	1:H:405:THR:N	2.52	0.42
1:I:587:THR:OG1	1:I:588:PHE:N	2.52	0.42
1:J:795:PHE:HD1	1:Q:827:LEU:HD13	1.85	0.42
1:L:177:ARG:HB2	1:L:213:LEU:HD11	2.01	0.42
1:L:384:GLU:HA	1:L:403:GLY:HA2	2.00	0.42
1:N:55:LEU:HD13	1:N:93:THR:HG21	2.00	0.42
1:O:8:ILE:O	1:O:35:TYR:N	2.52	0.42
1:O:825:LEU:CD2	1:T:822:LEU:HB3	2.48	0.42
1:P:766:ARG:NH1	1:W:772:TYR:HB2	2.34	0.42
1:R:115:VAL:HG11	1:R:121:LEU:HG	2.01	0.42
1:U:387:GLY:HA3	1:U:402:ILE:HD13	2.02	0.42
1:X:747:LYS:O	1:X:751:LEU:HB2	2.20	0.42
1:Y:827:LEU:HD22	1:Z:795:PHE:CD1	2.50	0.42
1:Z:411:ASP:OD1	1:Z:411:ASP:N	2.50	0.42
1:a:136:LYS:HZ1	1:a:138:VAL:HB	1.84	0.42
1:b:154:GLN:O	1:b:155:LYS:HB3	2.19	0.42
1:b:579:VAL:O	1:b:583:VAL:HB	2.19	0.42
1:c:175:ARG:NH1	1:c:195:GLU:OE1	2.44	0.42
1:g:279:GLN:HE21	1:k:338:GLN:HE21	1.68	0.42
1:h:121:LEU:HD23	1:h:121:LEU:HA	1.94	0.42
1:h:154:GLN:O	1:h:155:LYS:HB3	2.19	0.42
1:h:795:PHE:HD1	1:o:827:LEU:HD13	1.85	0.42
1:l:64:PRO:HD2	1:l:87:ASP:HB3	2.00	0.42
1:l:170:PRO:HB2	1:m:233:ARG:HH11	1.83	0.42
1:n:766:ARG:NH1	1:u:772:TYR:HB2	2.34	0.42
1:o:175:ARG:NH1	1:o:195:GLU:OE1	2.44	0.42
1:o:177:ARG:HB2	1:o:195:GLU:HG2	2.01	0.42
1:o:338:GLN:HB2	1:o:370:LYS:HB3	2.02	0.42
1:q:338:GLN:HB2	1:q:370:LYS:HB3	2.02	0.42
1:v:115:VAL:HG11	1:v:121:LEU:HG	2.01	0.42
1:w:795:PHE:CD1	1:w:846:PHE:HE1	2.37	0.42
1:w:826:GLY:HA3	1:x:794:LYS:NZ	2.34	0.42
1:y:8:ILE:O	1:y:35:TYR:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:205:LEU:HD12	1:z:206:PRO:HD2	2.00	0.42
1:0:177:ARG:HB2	1:0:195:GLU:HG2	2.01	0.42
1:1:747:LYS:O	1:1:751:LEU:HB2	2.20	0.42
1:1:812:VAL:HG12	1:1:816:GLU:HB2	2.02	0.42
1:2:826:GLY:HA3	1:3:794:LYS:NZ	2.34	0.42
1:4:136:LYS:HZ1	1:4:138:VAL:HB	1.85	0.42
1:5:625:ARG:HD3	1:5:625:ARG:HA	1.87	0.42
1:7:128:ASP:OD1	1:7:138:VAL:HA	2.19	0.42
1:AA:390:VAL:O	1:AA:398:VAL:HA	2.20	0.42
1:AB:766:ARG:NH1	1:AI:772:TYR:HB2	2.34	0.42
1:AD:9:ARG:H	1:AD:9:ARG:HG2	1.63	0.42
1:AD:128:ASP:OD1	1:AD:138:VAL:HA	2.19	0.42
1:AE:177:ARG:HB2	1:AE:195:GLU:HG2	2.01	0.42
1:AE:731:GLU:OE1	1:AF:723:LYS:NZ	2.52	0.42
1:AH:326:LEU:HD11	1:AH:332:LEU:HG	2.01	0.42
1:AH:356:ARG:HD3	1:AH:356:ARG:HA	1.86	0.42
1:AJ:177:ARG:HB2	1:AJ:213:LEU:HD11	2.01	0.42
1:AK:731:GLU:OE1	1:AL:723:LYS:NZ	2.52	0.42
1:AN:64:PRO:HD2	1:AN:87:ASP:HB3	2.01	0.42
1:AN:201:VAL:HG12	1:AP:191:VAL:HG21	2.01	0.42
1:AN:205:LEU:HD12	1:AN:206:PRO:HD2	2.00	0.42
1:AO:177:ARG:HB2	1:AO:195:GLU:HG2	2.01	0.42
1:A:338:GLN:HB2	1:A:370:LYS:HB3	2.02	0.42
1:A:468:VAL:HG12	1:A:515:CYS:HA	2.00	0.42
1:B:55:LEU:HD13	1:B:93:THR:HG21	2.00	0.42
1:B:560:LYS:NZ	1:B:630:GLN:O	2.43	0.42
1:C:812:VAL:HG12	1:C:816:GLU:HB2	2.02	0.42
1:D:122:HIS:NE2	1:D:142:GLU:OE1	2.49	0.42
1:D:503:GLY:O	1:D:506:LYS:NZ	2.49	0.42
1:E:76:ASP:OD1	1:E:78:THR:OG1	2.28	0.42
1:F:812:VAL:HG12	1:F:816:GLU:HB2	2.02	0.42
1:G:468:VAL:HG12	1:G:515:CYS:HA	2.00	0.42
1:G:826:GLY:HA3	1:H:794:LYS:NZ	2.34	0.42
1:H:205:LEU:HD12	1:H:206:PRO:HD2	2.02	0.42
1:H:839:VAL:HB	1:N:837:THR:OG1	2.19	0.42
1:I:825:LEU:CD2	1:N:822:LEU:HB3	2.48	0.42
1:J:766:ARG:NH1	1:Q:772:TYR:HB2	2.34	0.42
1:J:837:THR:OG1	1:P:839:VAL:CB	2.66	0.42
1:L:812:VAL:HG12	1:L:816:GLU:HB2	2.02	0.42
1:N:205:LEU:HD12	1:N:206:PRO:HD2	2.02	0.42
1:N:796:LYS:NZ	1:N:797:GLN:HG3	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:839:VAL:HB	1:T:837:THR:OG1	2.19	0.42
1:O:124:ARG:HB3	1:O:160:LEU:HD21	2.01	0.42
1:P:154:GLN:O	1:P:155:LYS:HB3	2.19	0.42
1:R:66:VAL:HG22	1:R:84:ARG:HG2	2.02	0.42
1:R:812:VAL:HG12	1:R:816:GLU:HB2	2.02	0.42
1:S:177:ARG:HB2	1:S:195:GLU:HG2	2.01	0.42
1:S:627:VAL:HG12	1:S:634:VAL:HG22	2.01	0.42
1:U:279:GLN:HE21	1:Y:338:GLN:HE21	1.68	0.42
1:U:366:VAL:HA	1:U:367:PRO:HD3	1.91	0.42
1:V:154:GLN:O	1:V:155:LYS:HB3	2.19	0.42
1:V:766:ARG:NH1	1:c:772:TYR:HB2	2.34	0.42
1:V:837:THR:HG1	1:b:839:VAL:HB	1.82	0.42
1:X:310:LEU:HD23	1:X:310:LEU:HA	1.92	0.42
1:X:350:SER:O	1:X:350:SER:OG	2.34	0.42
1:b:766:ARG:NH1	1:i:772:TYR:HB2	2.34	0.42
1:d:747:LYS:O	1:d:751:LEU:HB2	2.20	0.42
1:e:731:GLU:OE1	1:f:723:LYS:NZ	2.52	0.42
1:g:9:ARG:HE	1:g:9:ARG:HB3	1.55	0.42
1:h:201:VAL:HG12	1:j:191:VAL:HG21	2.01	0.42
1:h:404:SER:OG	1:h:405:THR:N	2.51	0.42
1:h:529:ILE:HG13	1:h:580:ARG:HG2	2.02	0.42
1:h:766:ARG:NH1	1:o:772:TYR:HB2	2.34	0.42
1:j:128:ASP:OD1	1:j:138:VAL:HA	2.19	0.42
1:k:177:ARG:HB2	1:k:195:GLU:HG2	2.01	0.42
1:k:731:GLU:OE1	1:l:723:LYS:NZ	2.52	0.42
1:k:795:PHE:CD1	1:k:846:PHE:HE1	2.37	0.42
1:l:827:LEU:HD21	1:m:831:LEU:CB	2.46	0.42
1:m:8:ILE:O	1:m:35:TYR:N	2.52	0.42
1:m:390:VAL:O	1:m:398:VAL:HA	2.20	0.42
1:n:154:GLN:O	1:n:155:LYS:HB3	2.19	0.42
1:o:647:ASP:OD1	1:o:647:ASP:N	2.53	0.42
1:p:812:VAL:HG12	1:p:816:GLU:HB2	2.02	0.42
1:q:60:VAL:HG22	1:q:107:LYS:HB3	2.01	0.42
1:q:761:ARG:HG2	1:r:755:THR:HG21	2.01	0.42
1:r:470:VAL:HG23	1:r:479:ARG:HB3	2.02	0.42
1:s:387:GLY:HA3	1:s:402:ILE:HD13	2.02	0.42
1:s:390:VAL:O	1:s:398:VAL:HA	2.20	0.42
1:t:124:ARG:HB3	1:t:160:LEU:HD21	2.01	0.42
1:u:177:ARG:HB2	1:u:195:GLU:HG2	2.01	0.42
1:u:230:ARG:HB2	1:u:268:LEU:HD11	2.01	0.42
1:x:55:LEU:HD13	1:x:93:THR:HG21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:769:GLU:OE2	1:y:766:ARG:NH1	2.42	0.42
1:z:404:SER:OG	1:z:405:THR:N	2.51	0.42
1:2:795:PHE:CD1	1:2:846:PHE:HE1	2.37	0.42
1:7:7:ILE:HD12	1:7:36:ILE:HG23	2.02	0.42
1:AE:122:HIS:NE2	1:AE:142:GLU:OE1	2.46	0.42
1:AE:826:GLY:HA3	1:AF:794:LYS:NZ	2.34	0.42
1:AF:411:ASP:OD1	1:AF:411:ASP:N	2.50	0.42
1:AK:177:ARG:HB2	1:AK:195:GLU:HG2	2.01	0.42
1:AL:529:ILE:HD13	1:AL:579:VAL:HG12	2.01	0.42
1:B:837:THR:OG1	1:AL:839:VAL:HB	2.19	0.42
1:C:390:VAL:O	1:C:398:VAL:HA	2.20	0.42
1:G:596:ALA:O	1:G:600:ARG:HB2	2.18	0.42
1:I:115:VAL:HG11	1:I:121:LEU:HG	2.01	0.42
1:J:122:HIS:NE2	1:J:142:GLU:OE1	2.49	0.42
1:J:154:GLN:O	1:J:155:LYS:HB3	2.19	0.42
1:K:230:ARG:HB2	1:K:268:LEU:HD11	2.01	0.42
1:K:338:GLN:HB2	1:K:370:LYS:HB3	2.02	0.42
1:M:177:ARG:HB2	1:M:195:GLU:HG2	2.01	0.42
1:Q:647:ASP:OD1	1:Q:647:ASP:N	2.53	0.42
1:S:338:GLN:HB2	1:S:370:LYS:HB3	2.02	0.42
1:S:468:VAL:HG12	1:S:515:CYS:HA	2.00	0.42
1:T:404:SER:OG	1:T:405:THR:N	2.52	0.42
1:V:529:ILE:HG13	1:V:580:ARG:HG2	2.02	0.42
1:V:827:LEU:HD21	1:X:831:LEU:CB	2.46	0.42
1:Y:606:PHE:O	1:Y:623:ARG:NH1	2.53	0.42
1:Y:795:PHE:CD1	1:Y:846:PHE:HE1	2.37	0.42
1:Z:205:LEU:HD12	1:Z:206:PRO:HD2	2.02	0.42
1:Z:424:GLU:OE2	1:Z:452:ARG:NH1	2.45	0.42
1:c:177:ARG:HB2	1:c:195:GLU:HG2	2.01	0.42
1:d:503:GLY:O	1:d:506:LYS:NZ	2.47	0.42
1:g:8:ILE:O	1:g:35:TYR:N	2.52	0.42
1:g:115:VAL:HG11	1:g:121:LEU:HG	2.01	0.42
1:g:390:VAL:O	1:g:398:VAL:HA	2.20	0.42
1:h:326:LEU:HD11	1:h:332:LEU:HG	2.01	0.42
1:h:476:LYS:HZ2	1:o:486:LEU:H	1.68	0.42
1:l:205:LEU:HD12	1:l:206:PRO:HD2	2.02	0.42
1:l:424:GLU:OE2	1:l:452:ARG:NH1	2.45	0.42
1:m:136:LYS:HZ1	1:m:138:VAL:HB	1.84	0.42
1:n:579:VAL:O	1:n:583:VAL:HB	2.19	0.42
1:p:128:ASP:OD1	1:p:138:VAL:HA	2.19	0.42
1:p:174:LEU:HB3	1:p:198:VAL:HG13	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:747:LYS:O	1:p:751:LEU:HB2	2.20	0.42
1:q:596:ALA:O	1:q:600:ARG:HB2	2.19	0.42
1:q:795:PHE:CD1	1:q:846:PHE:HE1	2.37	0.42
1:r:529:ILE:HD13	1:r:579:VAL:HG12	2.01	0.42
1:s:812:VAL:HG12	1:s:816:GLU:HB2	2.02	0.42
1:u:174:LEU:HB3	1:u:198:VAL:HG13	2.02	0.42
1:v:179:ARG:HB2	1:v:209:PHE:HB3	2.01	0.42
1:v:779:LEU:HD12	1:v:779:LEU:HA	1.92	0.42
1:w:606:PHE:O	1:w:623:ARG:NH1	2.53	0.42
1:x:205:LEU:HD12	1:x:206:PRO:HD2	2.02	0.42
1:y:279:GLN:HE21	1:2:338:GLN:HE21	1.68	0.42
1:z:17:HIS:NE2	1:z:99:LEU:O	2.37	0.42
1:0:338:GLN:HB2	1:0:370:LYS:HB3	2.02	0.42
1:1:115:VAL:HG11	1:1:121:LEU:HG	2.01	0.42
1:4:812:VAL:HG12	1:4:816:GLU:HB2	2.02	0.42
1:9:839:VAL:HB	1:AF:837:THR:OG1	2.19	0.42
1:AA:121:LEU:HD23	1:AA:121:LEU:HA	1.94	0.42
1:AD:812:VAL:HG12	1:AD:816:GLU:HB2	2.02	0.42
1:AG:8:ILE:O	1:AG:35:TYR:N	2.52	0.42
1:AG:124:ARG:HB3	1:AG:160:LEU:HD21	2.01	0.42
1:AG:279:GLN:HE21	1:AK:338:GLN:HE21	1.67	0.42
1:AG:812:VAL:HG12	1:AG:816:GLU:HB2	2.02	0.42
1:AI:60:VAL:HG23	1:AI:106:GLU:HB3	2.01	0.42
1:AJ:39:ASP:O	1:AJ:42:ARG:NH2	2.52	0.42
1:AK:99:LEU:HD23	1:AK:99:LEU:HA	1.94	0.42
1:AO:175:ARG:NH1	1:AO:195:GLU:OE1	2.44	0.42
1:AO:338:GLN:HB2	1:AO:370:LYS:HB3	2.02	0.42
1:AP:812:VAL:HG12	1:AP:816:GLU:HB2	2.02	0.42
1:A:177:ARG:HB2	1:A:195:GLU:HG2	2.01	0.42
1:B:639:ASP:OD2	1:C:573:LYS:NZ	2.38	0.42
1:B:796:LYS:NZ	1:B:797:GLN:HG3	2.34	0.42
1:C:136:LYS:HZ1	1:C:138:VAL:HB	1.85	0.42
1:D:154:GLN:O	1:D:155:LYS:HB3	2.19	0.42
1:D:766:ARG:NH1	1:K:772:TYR:HB2	2.34	0.42
1:D:795:PHE:HD1	1:K:827:LEU:HD13	1.85	0.42
1:E:338:GLN:HB2	1:E:370:LYS:HB3	2.02	0.42
1:E:647:ASP:OD1	1:E:647:ASP:N	2.53	0.42
1:F:177:ARG:HB2	1:F:213:LEU:HD11	2.01	0.42
1:G:177:ARG:HB2	1:G:195:GLU:HG2	2.01	0.42
1:G:606:PHE:O	1:G:623:ARG:NH1	2.53	0.42
1:I:812:VAL:HG12	1:I:816:GLU:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:723:LYS:HE2	1:L:735:ILE:HD11	2.02	0.42
1:M:468:VAL:HG12	1:M:515:CYS:HA	2.00	0.42
1:M:826:GLY:HA3	1:N:794:LYS:NZ	2.34	0.42
1:O:587:THR:OG1	1:O:588:PHE:N	2.52	0.42
1:Q:338:GLN:HB2	1:Q:370:LYS:HB3	2.02	0.42
1:U:179:ARG:HB2	1:U:209:PHE:HB3	2.00	0.42
1:U:606:PHE:O	1:U:623:ARG:NH1	2.53	0.42
1:V:122:HIS:NE2	1:V:142:GLU:OE1	2.49	0.42
1:Y:155:LYS:HB3	1:Y:155:LYS:HE3	1.76	0.42
1:b:795:PHE:HD1	1:i:827:LEU:HD13	1.85	0.42
1:d:779:LEU:HD12	1:d:779:LEU:HA	1.92	0.42
1:e:338:GLN:HB2	1:e:370:LYS:HB3	2.02	0.42
1:g:812:VAL:HG12	1:g:816:GLU:HB2	2.02	0.42
1:h:769:GLU:OE2	1:j:766:ARG:NH1	2.39	0.42
1:i:60:VAL:HG23	1:i:106:GLU:HB3	2.01	0.42
1:i:606:PHE:O	1:i:623:ARG:NH1	2.53	0.42
1:m:356:ARG:HE	1:m:356:ARG:HB2	1.74	0.42
1:p:360:ARG:HE	1:p:360:ARG:HB2	1.73	0.42
1:q:826:GLY:HA3	1:r:794:LYS:NZ	2.34	0.42
1:v:812:VAL:HG12	1:v:816:GLU:HB2	2.02	0.42
1:y:136:LYS:HZ1	1:y:138:VAL:HB	1.85	0.42
1:y:350:SER:O	1:y:350:SER:OG	2.31	0.42
1:y:387:GLY:HA3	1:y:402:ILE:HD13	2.02	0.42
1:y:390:VAL:O	1:y:398:VAL:HA	2.20	0.42
1:1:9:ARG:HE	1:1:9:ARG:HB3	1.55	0.42
1:1:136:LYS:HZ1	1:1:138:VAL:HB	1.85	0.42
1:1:174:LEU:HB3	1:1:198:VAL:HG13	2.02	0.42
1:3:205:LEU:HD12	1:3:206:PRO:HD2	2.02	0.42
1:5:795:PHE:HD1	1:AC:827:LEU:HD13	1.85	0.42
1:6:647:ASP:OD1	1:6:647:ASP:N	2.53	0.42
1:9:796:LYS:NZ	1:9:797:GLN:HG3	2.34	0.42
1:AE:338:GLN:HB2	1:AE:370:LYS:HB3	2.02	0.42
1:AE:761:ARG:HG2	1:AF:755:THR:HG21	2.01	0.42
1:AF:64:PRO:HD2	1:AF:87:ASP:HB3	2.00	0.42
1:AH:769:GLU:OE2	1:AJ:766:ARG:NH1	2.39	0.42
1:AI:424:GLU:OE2	1:AI:452:ARG:NH1	2.45	0.42
1:AJ:747:LYS:O	1:AJ:751:LEU:HB2	2.20	0.42
1:AK:826:GLY:HA3	1:AL:794:LYS:NZ	2.34	0.42
1:AM:812:VAL:HG12	1:AM:816:GLU:HB2	2.02	0.42
1:AN:154:GLN:O	1:AN:155:LYS:HB3	2.19	0.42
1:AO:647:ASP:OD1	1:AO:647:ASP:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:177:ARG:HB2	1:AP:213:LEU:HD11	2.01	0.42
1:C:825:LEU:CD2	1:H:822:LEU:HB3	2.48	0.42
1:E:177:ARG:HB2	1:E:195:GLU:HG2	2.01	0.42
1:E:350:SER:O	1:E:350:SER:OG	2.31	0.42
1:F:66:VAL:HG22	1:F:84:ARG:HG2	2.02	0.42
1:N:486:LEU:H	1:O:476:LYS:HZ2	1.67	0.42
1:O:387:GLY:HA3	1:O:402:ILE:HD13	2.02	0.42
1:R:747:LYS:O	1:R:751:LEU:HB2	2.20	0.42
1:T:529:ILE:HD13	1:T:579:VAL:HG12	2.01	0.42
1:U:390:VAL:O	1:U:398:VAL:HA	2.20	0.42
1:W:338:GLN:HB2	1:W:370:LYS:HB3	2.02	0.42
1:X:424:GLU:OE2	1:X:452:ARG:NH1	2.47	0.42
1:Y:177:ARG:HB2	1:Y:195:GLU:HG2	2.01	0.42
1:Z:839:VAL:HB	1:f:837:THR:OG1	2.19	0.42
1:a:62:ALA:HB3	1:a:104:LEU:HB3	2.01	0.42
1:a:390:VAL:O	1:a:398:VAL:HA	2.20	0.42
1:c:338:GLN:HB2	1:c:370:LYS:HB3	2.02	0.42
1:c:647:ASP:OD1	1:c:647:ASP:N	2.53	0.42
1:d:174:LEU:HB3	1:d:198:VAL:HG13	2.02	0.42
1:d:812:VAL:HG12	1:d:816:GLU:HB2	2.02	0.42
1:f:470:VAL:HG23	1:f:479:ARG:HB3	2.02	0.42
1:i:174:LEU:HB3	1:i:198:VAL:HG13	2.02	0.42
1:m:306:LYS:HE2	1:m:306:LYS:HB3	1.92	0.42
1:n:205:LEU:HD12	1:n:206:PRO:HD2	2.00	0.42
1:o:174:LEU:HB3	1:o:198:VAL:HG13	2.02	0.42
1:o:230:ARG:HB2	1:o:268:LEU:HD11	2.02	0.42
1:s:10:ILE:HA	1:s:11:PRO:HD3	1.91	0.42
1:s:17:HIS:NE2	1:s:99:LEU:O	2.37	0.42
1:t:154:GLN:O	1:t:155:LYS:HB3	2.19	0.42
1:u:338:GLN:HB2	1:u:370:LYS:HB3	2.02	0.42
1:v:9:ARG:H	1:v:9:ARG:HG2	1.63	0.42
1:w:600:ARG:HB2	1:w:600:ARG:HE	1.65	0.42
1:w:761:ARG:HG2	1:x:755:THR:HG21	2.01	0.42
1:y:812:VAL:HG12	1:y:816:GLU:HB2	2.02	0.42
1:z:795:PHE:HD1	1:6:827:LEU:HD13	1.85	0.42
1:2:338:GLN:HB2	1:2:370:LYS:HB3	2.02	0.42
1:3:796:LYS:HB3	1:3:796:LYS:HE3	1.44	0.42
1:4:9:ARG:H	1:4:9:ARG:HG2	1.65	0.42
1:5:64:PRO:HD2	1:5:87:ASP:HB3	2.01	0.42
1:6:174:LEU:HB3	1:6:198:VAL:HG13	2.02	0.42
1:7:747:LYS:O	1:7:751:LEU:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:812:VAL:HG12	1:7:816:GLU:HB2	2.02	0.42
1:8:338:GLN:HB2	1:8:370:LYS:HB3	2.02	0.42
1:8:606:PHE:O	1:8:623:ARG:NH1	2.53	0.42
1:8:761:ARG:HG2	1:9:755:THR:HG21	2.01	0.42
1:AA:115:VAL:HG11	1:AA:121:LEU:HG	2.01	0.42
1:AC:338:GLN:HB2	1:AC:370:LYS:HB3	2.02	0.42
1:AE:60:VAL:HG22	1:AE:107:LYS:HB3	2.01	0.42
1:AG:390:VAL:O	1:AG:398:VAL:HA	2.20	0.42
1:AH:64:PRO:HD2	1:AH:87:ASP:HB3	2.01	0.42
1:AH:201:VAL:HG12	1:AJ:191:VAL:HG21	2.01	0.42
1:AK:338:GLN:HB2	1:AK:370:LYS:HB3	2.02	0.42
1:AL:474:ARG:HB2	1:AL:492:GLU:HB2	2.01	0.42
1:AM:402:ILE:HD11	1:AM:457:VAL:HG11	2.02	0.42
1:B:404:SER:OG	1:B:405:THR:N	2.52	0.42
1:C:606:PHE:O	1:C:623:ARG:NH1	2.53	0.42
1:D:186:ASP:N	1:D:186:ASP:OD1	2.53	0.42
1:H:796:LYS:NZ	1:H:797:GLN:HG3	2.34	0.42
1:I:17:HIS:NE2	1:I:99:LEU:O	2.37	0.42
1:L:66:VAL:HG22	1:L:84:ARG:HG2	2.02	0.42
1:L:402:ILE:HD11	1:L:457:VAL:HG11	2.00	0.42
1:O:136:LYS:HZ1	1:O:138:VAL:HB	1.85	0.42
1:O:175:ARG:NH1	1:O:195:GLU:OE1	2.45	0.42
1:O:390:VAL:O	1:O:398:VAL:HA	2.20	0.42
1:O:812:VAL:HG12	1:O:816:GLU:HB2	2.02	0.42
1:P:64:PRO:HD2	1:P:87:ASP:HB3	2.01	0.42
1:P:175:ARG:NH1	1:P:195:GLU:OE1	2.44	0.42
1:P:529:ILE:HG13	1:P:580:ARG:HG2	2.02	0.42
1:R:136:LYS:HZ1	1:R:138:VAL:HB	1.85	0.42
1:U:812:VAL:HG12	1:U:816:GLU:HB2	2.02	0.42
1:V:326:LEU:HD11	1:V:332:LEU:HG	2.01	0.42
1:b:326:LEU:HD11	1:b:332:LEU:HG	2.01	0.42
1:b:529:ILE:HG13	1:b:580:ARG:HG2	2.02	0.42
1:g:124:ARG:HB3	1:g:160:LEU:HD21	2.01	0.42
1:i:310:LEU:HD11	1:i:316:LEU:HG	2.02	0.42
1:j:747:LYS:O	1:j:751:LEU:HB2	2.20	0.42
1:l:839:VAL:HB	1:r:837:THR:OG1	2.19	0.42
1:m:115:VAL:HG11	1:m:121:LEU:HG	2.01	0.42
1:m:812:VAL:HG12	1:m:816:GLU:HB2	2.02	0.42
1:o:310:LEU:HD11	1:o:316:LEU:HG	2.02	0.42
1:q:310:LEU:HD23	1:q:310:LEU:HA	1.91	0.42
1:r:122:HIS:NE2	1:r:142:GLU:OE1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:360:ARG:HE	1:s:360:ARG:HB2	1.72	0.42
1:t:201:VAL:HG12	1:v:191:VAL:HG21	2.01	0.42
1:t:795:PHE:HD1	1:0:827:LEU:HD13	1.85	0.42
1:u:647:ASP:OD1	1:u:647:ASP:N	2.53	0.42
1:y:293:LYS:HE2	1:y:293:LYS:HB3	1.86	0.42
1:z:769:GLU:OE2	1:1:766:ARG:NH1	2.39	0.42
1:0:174:LEU:HB3	1:0:198:VAL:HG13	2.02	0.42
1:0:230:ARG:HB2	1:0:268:LEU:HD11	2.02	0.42
1:5:837:THR:OG1	1:AB:839:VAL:CB	2.66	0.42
1:8:826:GLY:HA3	1:9:794:LYS:NZ	2.34	0.42
1:AA:366:VAL:HA	1:AA:367:PRO:HD3	1.91	0.42
1:AA:812:VAL:HG12	1:AA:816:GLU:HB2	2.02	0.42
1:AB:64:PRO:HD2	1:AB:87:ASP:HB3	2.01	0.42
1:AD:310:LEU:HD23	1:AD:310:LEU:HA	1.92	0.42
1:AG:62:ALA:HB3	1:AG:104:LEU:HB3	2.01	0.42
1:AH:766:ARG:NH1	1:AO:772:TYR:HB2	2.34	0.42
1:AH:795:PHE:HD1	1:AO:827:LEU:HD13	1.85	0.42
1:AI:338:GLN:HB2	1:AI:370:LYS:HB3	2.02	0.42
1:AJ:812:VAL:HG12	1:AJ:816:GLU:HB2	2.02	0.42
1:AM:356:ARG:HE	1:AM:356:ARG:HB2	1.74	0.42
1:AM:387:GLY:HA3	1:AM:402:ILE:HD13	2.02	0.42
1:AN:132:SER:OG	1:AN:135:GLU:O	2.36	0.42
1:AN:326:LEU:HD11	1:AN:332:LEU:HG	2.01	0.42
1:AP:747:LYS:O	1:AP:751:LEU:HB2	2.20	0.42
1:B:822:LEU:HB3	1:AM:825:LEU:CD2	2.48	0.41
1:C:62:ALA:HB3	1:C:104:LEU:HB3	2.01	0.41
1:D:326:LEU:HD11	1:D:332:LEU:HG	2.01	0.41
1:E:60:VAL:HG23	1:E:106:GLU:HB3	2.01	0.41
1:E:827:LEU:HD13	1:AN:795:PHE:HD1	1.85	0.41
1:F:115:VAL:HG11	1:F:121:LEU:HG	2.01	0.41
1:F:136:LYS:HZ1	1:F:138:VAL:HB	1.85	0.41
1:F:179:ARG:HB2	1:F:209:PHE:HB3	2.01	0.41
1:F:350:SER:O	1:F:350:SER:OG	2.34	0.41
1:H:486:LEU:H	1:I:476:LYS:HZ2	1.68	0.41
1:I:402:ILE:HD11	1:I:457:VAL:HG11	2.02	0.41
1:J:64:PRO:HD2	1:J:87:ASP:HB3	2.01	0.41
1:K:60:VAL:HG23	1:K:106:GLU:HB3	2.01	0.41
1:M:350:SER:O	1:M:350:SER:OG	2.31	0.41
1:M:606:PHE:O	1:M:623:ARG:NH1	2.53	0.41
1:O:402:ILE:HD11	1:O:457:VAL:HG11	2.02	0.41
1:P:124:ARG:HB3	1:P:160:LEU:HD21	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:310:LEU:HD23	1:P:310:LEU:HA	1.93	0.41
1:P:831:LEU:HD11	1:X:832:ILE:HD12	2.03	0.41
1:Q:310:LEU:HD23	1:Q:310:LEU:HA	1.92	0.41
1:R:179:ARG:HB2	1:R:209:PHE:HB3	2.01	0.41
1:U:424:GLU:OE2	1:U:452:ARG:NH1	2.47	0.41
1:V:476:LYS:HZ2	1:c:486:LEU:H	1.68	0.41
1:W:60:VAL:HG23	1:W:106:GLU:HB3	2.01	0.41
1:W:76:ASP:OD1	1:W:78:THR:OG1	2.28	0.41
1:X:812:VAL:HG12	1:X:816:GLU:HB2	2.02	0.41
1:Y:550:SER:OG	1:Y:557:GLU:OE2	2.38	0.41
1:Z:470:VAL:HG23	1:Z:479:ARG:HB3	2.02	0.41
1:a:812:VAL:HG12	1:a:816:GLU:HB2	2.02	0.41
1:b:606:PHE:O	1:b:623:ARG:NH1	2.53	0.41
1:d:66:VAL:HG22	1:d:84:ARG:HG2	2.02	0.41
1:d:136:LYS:HZ1	1:d:138:VAL:HB	1.85	0.41
1:e:177:ARG:HB2	1:e:195:GLU:HG2	2.01	0.41
1:f:175:ARG:NH1	1:f:195:GLU:OE1	2.44	0.41
1:f:474:ARG:HB2	1:f:492:GLU:HB2	2.01	0.41
1:i:338:GLN:HB2	1:i:370:LYS:HB3	2.02	0.41
1:j:812:VAL:HG12	1:j:816:GLU:HB2	2.02	0.41
1:m:175:ARG:NH1	1:m:195:GLU:OE1	2.45	0.41
1:m:606:PHE:O	1:m:623:ARG:NH1	2.53	0.41
1:o:841:LEU:H	1:u:824:SER:HG	1.66	0.41
1:r:155:LYS:HB3	1:r:155:LYS:HE2	1.72	0.41
1:s:310:LEU:HD23	1:s:310:LEU:HA	1.91	0.41
1:t:529:ILE:HG13	1:t:580:ARG:HG2	2.02	0.41
1:w:794:LYS:HZ3	1:w:851:LEU:CD2	2.32	0.41
1:0:60:VAL:HG23	1:0:106:GLU:HB3	2.01	0.41
1:1:165:ALA:HB2	1:1:205:LEU:HD13	2.02	0.41
1:4:8:ILE:O	1:4:35:TYR:N	2.52	0.41
1:6:338:GLN:HB2	1:6:370:LYS:HB3	2.02	0.41
1:7:165:ALA:HB2	1:7:205:LEU:HD13	2.02	0.41
1:7:174:LEU:HB3	1:7:198:VAL:HG13	2.02	0.41
1:7:186:ASP:OD1	1:7:186:ASP:N	2.53	0.41
1:8:481:VAL:HG21	1:8:487:VAL:HB	2.02	0.41
1:AB:795:PHE:HD1	1:AI:827:LEU:HD13	1.85	0.41
1:AC:126:LEU:N	1:AC:156:GLU:O	2.49	0.41
1:AD:136:LYS:HZ1	1:AD:138:VAL:HB	1.85	0.41
1:AD:174:LEU:HB3	1:AD:198:VAL:HG13	2.02	0.41
1:AE:606:PHE:O	1:AE:623:ARG:NH1	2.53	0.41
1:AE:795:PHE:CD1	1:AE:846:PHE:HE1	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:529:ILE:HD13	1:AF:579:VAL:HG12	2.01	0.41
1:AG:387:GLY:HA3	1:AG:402:ILE:HD13	2.02	0.41
1:AI:606:PHE:O	1:AI:623:ARG:NH1	2.53	0.41
1:AK:60:VAL:HG22	1:AK:107:LYS:HB3	2.01	0.41
1:AK:126:LEU:N	1:AK:156:GLU:O	2.49	0.41
1:AK:481:VAL:HG21	1:AK:487:VAL:HB	2.02	0.41
1:AM:62:ALA:HB3	1:AM:104:LEU:HB3	2.01	0.41
1:AO:606:PHE:O	1:AO:623:ARG:NH1	2.53	0.41
1:AP:129:PHE:HZ	1:AP:157:VAL:HG22	1.84	0.41
1:B:99:LEU:HD23	1:B:99:LEU:HA	1.94	0.41
1:C:402:ILE:HD11	1:C:457:VAL:HG11	2.02	0.41
1:E:43:ILE:H	1:E:43:ILE:HG13	1.71	0.41
1:E:326:LEU:HD11	1:E:332:LEU:HG	2.01	0.41
1:F:165:ALA:HB2	1:F:205:LEU:HD13	2.02	0.41
1:F:832:ILE:HD12	1:AN:831:LEU:HD11	2.03	0.41
1:G:731:GLU:OE1	1:H:723:LYS:NZ	2.52	0.41
1:I:136:LYS:HZ1	1:I:138:VAL:HB	1.85	0.41
1:I:174:LEU:HB3	1:I:198:VAL:HG13	2.03	0.41
1:K:606:PHE:O	1:K:623:ARG:NH1	2.53	0.41
1:L:8:ILE:O	1:L:35:TYR:N	2.53	0.41
1:M:550:SER:OG	1:M:557:GLU:OE2	2.38	0.41
1:O:279:GLN:HE21	1:S:338:GLN:HE21	1.68	0.41
1:P:795:PHE:HD1	1:W:827:LEU:HD13	1.85	0.41
1:Q:60:VAL:HG23	1:Q:106:GLU:HB3	2.01	0.41
1:Q:230:ARG:HB2	1:Q:268:LEU:HD11	2.01	0.41
1:Q:606:PHE:O	1:Q:623:ARG:NH1	2.53	0.41
1:S:827:LEU:HD22	1:T:795:PHE:CD1	2.50	0.41
1:U:62:ALA:HB3	1:U:104:LEU:HB3	2.01	0.41
1:X:165:ALA:HB2	1:X:205:LEU:HD13	2.02	0.41
1:a:124:ARG:HB3	1:a:160:LEU:HD21	2.01	0.41
1:c:310:LEU:HD11	1:c:316:LEU:HG	2.02	0.41
1:e:550:SER:OG	1:e:557:GLU:OE2	2.38	0.41
1:e:606:PHE:O	1:e:623:ARG:NH1	2.53	0.41
1:e:795:PHE:CD1	1:e:846:PHE:HE1	2.37	0.41
1:f:839:VAL:HB	1:l:837:THR:OG1	2.19	0.41
1:i:175:ARG:NH1	1:i:195:GLU:OE1	2.44	0.41
1:j:174:LEU:HB3	1:j:198:VAL:HG13	2.02	0.41
1:k:481:VAL:HG21	1:k:487:VAL:HB	2.02	0.41
1:m:124:ARG:HB3	1:m:160:LEU:HD21	2.01	0.41
1:m:279:GLN:HE21	1:q:338:GLN:HE21	1.68	0.41
1:n:132:SER:OG	1:n:135:GLU:O	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:529:ILE:HG13	1:n:580:ARG:HG2	2.02	0.41
1:o:90:ILE:H	1:o:90:ILE:HG13	1.68	0.41
1:t:476:LYS:HZ2	1:0:486:LEU:H	1.68	0.41
1:t:606:PHE:O	1:t:623:ARG:NH1	2.53	0.41
1:v:174:LEU:HB3	1:v:198:VAL:HG13	2.02	0.41
1:y:115:VAL:HG11	1:y:121:LEU:HG	2.01	0.41
1:y:124:ARG:HB3	1:y:160:LEU:HD21	2.01	0.41
1:z:64:PRO:HD2	1:z:87:ASP:HB3	2.01	0.41
1:z:186:ASP:OD1	1:z:186:ASP:N	2.53	0.41
1:z:201:VAL:HG12	1:1:191:VAL:HG21	2.01	0.41
1:1:66:VAL:HG22	1:1:84:ARG:HG2	2.02	0.41
1:1:356:ARG:HE	1:1:356:ARG:HB2	1.74	0.41
1:3:839:VAL:HB	1:9:837:THR:OG1	2.19	0.41
1:5:99:LEU:HD23	1:5:99:LEU:HA	1.95	0.41
1:5:205:LEU:HD12	1:5:206:PRO:HD2	2.00	0.41
1:5:523:PHE:CE1	1:5:545:TRP:CE2	3.08	0.41
1:5:831:LEU:HD11	1:AD:832:ILE:HD12	2.02	0.41
1:6:606:PHE:O	1:6:623:ARG:NH1	2.53	0.41
1:8:795:PHE:CD1	1:8:846:PHE:HE1	2.37	0.41
1:AA:402:ILE:HD11	1:AA:457:VAL:HG11	2.02	0.41
1:AB:124:ARG:HB3	1:AB:160:LEU:HD21	2.01	0.41
1:AB:201:VAL:HG12	1:AD:191:VAL:HG21	2.01	0.41
1:AB:523:PHE:CE1	1:AB:545:TRP:CE2	3.08	0.41
1:AC:647:ASP:OD1	1:AC:647:ASP:N	2.53	0.41
1:AD:186:ASP:OD1	1:AD:186:ASP:N	2.53	0.41
1:AH:124:ARG:HB3	1:AH:160:LEU:HD21	2.01	0.41
1:AH:154:GLN:O	1:AH:155:LYS:HB3	2.19	0.41
1:AH:837:THR:OG1	1:AN:839:VAL:CB	2.66	0.41
1:AI:230:ARG:HB2	1:AI:268:LEU:HD11	2.01	0.41
1:AK:575:ILE:HD11	1:AK:635:VAL:HG21	2.03	0.41
1:AP:115:VAL:HG11	1:AP:121:LEU:HG	2.01	0.41
1:AP:165:ALA:HB2	1:AP:205:LEU:HD13	2.02	0.41
1:A:606:PHE:O	1:A:623:ARG:NH1	2.53	0.41
1:A:709:LEU:HD13	1:B:701:LYS:HG3	2.03	0.41
1:B:839:VAL:HB	1:H:837:THR:OG1	2.19	0.41
1:C:115:VAL:HG11	1:C:121:LEU:HG	2.01	0.41
1:C:387:GLY:HA3	1:C:402:ILE:HD13	2.02	0.41
1:D:769:GLU:OE2	1:F:766:ARG:NH1	2.39	0.41
1:D:831:LEU:HD11	1:L:832:ILE:HD12	2.02	0.41
1:F:155:LYS:HE3	1:F:155:LYS:HB3	1.88	0.41
1:G:162:ILE:H	1:G:162:ILE:HG13	1.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:795:PHE:CD1	1:G:846:PHE:HE1	2.37	0.41
1:I:390:VAL:O	1:I:398:VAL:HA	2.20	0.41
1:J:186:ASP:OD1	1:J:186:ASP:N	2.53	0.41
1:J:326:LEU:HD11	1:J:332:LEU:HG	2.01	0.41
1:J:529:ILE:HG13	1:J:580:ARG:HG2	2.02	0.41
1:J:606:PHE:O	1:J:623:ARG:NH1	2.53	0.41
1:M:486:LEU:H	1:N:476:LYS:HZ2	1.69	0.41
1:N:175:ARG:NH1	1:N:195:GLU:OE1	2.44	0.41
1:O:62:ALA:HB3	1:O:104:LEU:HB3	2.01	0.41
1:O:606:PHE:O	1:O:623:ARG:NH1	2.53	0.41
1:P:606:PHE:O	1:P:623:ARG:NH1	2.53	0.41
1:Q:350:SER:O	1:Q:350:SER:OG	2.31	0.41
1:Q:723:LYS:HE2	1:R:735:ILE:HD11	2.02	0.41
1:R:121:LEU:HD23	1:R:121:LEU:HA	1.95	0.41
1:S:606:PHE:O	1:S:623:ARG:NH1	2.53	0.41
1:S:731:GLU:OE1	1:T:723:LYS:NZ	2.52	0.41
1:U:124:ARG:HB3	1:U:160:LEU:HD21	2.01	0.41
1:V:17:HIS:NE2	1:V:99:LEU:O	2.37	0.41
1:W:177:ARG:HB2	1:W:195:GLU:HG2	2.01	0.41
1:a:17:HIS:NE2	1:a:99:LEU:O	2.37	0.41
1:b:769:GLU:OE2	1:d:766:ARG:NH1	2.39	0.41
1:c:174:LEU:HB3	1:c:198:VAL:HG13	2.02	0.41
1:e:291:ASP:OD1	1:e:291:ASP:N	2.51	0.41
1:g:53:VAL:HA	1:g:54:PRO:HD3	1.93	0.41
1:g:606:PHE:O	1:g:623:ARG:NH1	2.53	0.41
1:h:560:LYS:NZ	1:h:630:GLN:O	2.44	0.41
1:h:606:PHE:O	1:h:623:ARG:NH1	2.53	0.41
1:i:230:ARG:HB2	1:i:268:LEU:HD11	2.01	0.41
1:i:326:LEU:HD11	1:i:332:LEU:HG	2.01	0.41
1:k:60:VAL:HG22	1:k:107:LYS:HB3	2.01	0.41
1:k:700:GLU:HG2	1:k:703:ARG:HH21	1.86	0.41
1:o:606:PHE:O	1:o:623:ARG:NH1	2.53	0.41
1:q:606:PHE:O	1:q:623:ARG:NH1	2.53	0.41
1:r:55:LEU:HD13	1:r:93:THR:HG21	2.00	0.41
1:s:124:ARG:HB3	1:s:160:LEU:HD21	2.01	0.41
1:s:366:VAL:HA	1:s:367:PRO:HD3	1.91	0.41
1:t:186:ASP:N	1:t:186:ASP:OD1	2.53	0.41
1:u:310:LEU:HD11	1:u:316:LEU:HG	2.02	0.41
1:u:841:LEU:H	1:0:824:SER:HG	1.67	0.41
1:w:481:VAL:HG21	1:w:487:VAL:HB	2.02	0.41
1:x:470:VAL:HG23	1:x:479:ARG:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:154:GLN:O	1:z:155:LYS:HB3	2.19	0.41
1:z:837:THR:OG1	1:5:839:VAL:CB	2.66	0.41
1:0:326:LEU:HD11	1:0:332:LEU:HG	2.01	0.41
1:0:606:PHE:O	1:0:623:ARG:NH1	2.53	0.41
1:0:647:ASP:OD1	1:0:647:ASP:N	2.53	0.41
1:2:606:PHE:O	1:2:623:ARG:NH1	2.53	0.41
1:2:709:LEU:HD13	1:3:701:LYS:HG3	2.03	0.41
1:4:606:PHE:O	1:4:623:ARG:NH1	2.53	0.41
1:6:326:LEU:HD11	1:6:332:LEU:HG	2.01	0.41
1:7:115:VAL:HG11	1:7:121:LEU:HG	2.01	0.41
1:8:350:SER:O	1:8:350:SER:OG	2.31	0.41
1:9:99:LEU:HD23	1:9:99:LEU:HA	1.94	0.41
1:AA:387:GLY:HA3	1:AA:402:ILE:HD13	2.02	0.41
1:AD:747:LYS:O	1:AD:751:LEU:HB2	2.20	0.41
1:AE:575:ILE:HD11	1:AE:635:VAL:HG21	2.03	0.41
1:AE:700:GLU:HG2	1:AE:703:ARG:HH21	1.86	0.41
1:AE:709:LEU:HD13	1:AF:701:LYS:HG3	2.03	0.41
1:AF:186:ASP:OD1	1:AF:186:ASP:N	2.54	0.41
1:AF:205:LEU:HD12	1:AF:206:PRO:HD2	2.02	0.41
1:AH:831:LEU:HD11	1:AP:832:ILE:HD12	2.03	0.41
1:AI:647:ASP:OD2	1:AI:650:THR:OG1	2.32	0.41
1:AJ:10:ILE:HA	1:AJ:11:PRO:HD3	1.92	0.41
1:AJ:129:PHE:HZ	1:AJ:157:VAL:HG22	1.84	0.41
1:AJ:136:LYS:HZ1	1:AJ:138:VAL:HB	1.85	0.41
1:AJ:356:ARG:HE	1:AJ:356:ARG:HB2	1.74	0.41
1:AM:136:LYS:HZ1	1:AM:138:VAL:HB	1.84	0.41
1:AP:7:ILE:HD12	1:AP:36:ILE:HG23	2.02	0.41
1:A:575:ILE:HD11	1:A:635:VAL:HG21	2.03	0.41
1:D:839:VAL:CB	1:AN:837:THR:OG1	2.66	0.41
1:E:230:ARG:HB2	1:E:268:LEU:HD11	2.01	0.41
1:K:647:ASP:OD1	1:K:647:ASP:N	2.53	0.41
1:L:390:VAL:O	1:L:398:VAL:HA	2.21	0.41
1:M:731:GLU:OE1	1:N:723:LYS:NZ	2.52	0.41
1:P:326:LEU:HD11	1:P:332:LEU:HG	2.01	0.41
1:R:165:ALA:HB2	1:R:205:LEU:HD13	2.02	0.41
1:R:186:ASP:OD1	1:R:186:ASP:N	2.54	0.41
1:S:550:SER:OG	1:S:557:GLU:OE2	2.38	0.41
1:T:424:GLU:OE2	1:T:452:ARG:NH1	2.45	0.41
1:U:121:LEU:HD23	1:U:121:LEU:HA	1.94	0.41
1:V:424:GLU:OE2	1:V:452:ARG:NH1	2.45	0.41
1:V:831:LEU:HD11	1:d:832:ILE:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:606:PHE:O	1:W:623:ARG:NH1	2.53	0.41
1:b:99:LEU:HD23	1:b:99:LEU:HA	1.95	0.41
1:b:132:SER:OG	1:b:135:GLU:O	2.36	0.41
1:b:175:ARG:NH1	1:b:195:GLU:OE1	2.44	0.41
1:e:122:HIS:NE2	1:e:142:GLU:OE1	2.46	0.41
1:j:136:LYS:HZ1	1:j:138:VAL:HB	1.85	0.41
1:j:165:ALA:HB2	1:j:205:LEU:HD13	2.02	0.41
1:n:795:PHE:HD1	1:u:827:LEU:HD13	1.85	0.41
1:p:165:ALA:HB2	1:p:205:LEU:HD13	2.02	0.41
1:q:709:LEU:HD13	1:r:701:LYS:HG3	2.03	0.41
1:s:606:PHE:O	1:s:623:ARG:NH1	2.53	0.41
1:t:132:SER:OG	1:t:135:GLU:O	2.36	0.41
1:w:709:LEU:HD13	1:x:701:LYS:HG3	2.03	0.41
1:x:625:ARG:HD3	1:x:625:ARG:HA	1.88	0.41
1:z:124:ARG:HB3	1:z:160:LEU:HD21	2.01	0.41
1:0:723:LYS:HE2	1:1:735:ILE:HD11	2.02	0.41
1:1:7:ILE:HD12	1:1:36:ILE:HG23	2.02	0.41
1:1:390:VAL:O	1:1:398:VAL:HA	2.21	0.41
1:2:155:LYS:HE3	1:2:155:LYS:HB3	1.77	0.41
1:2:486:LEU:H	1:3:476:LYS:HZ2	1.69	0.41
1:2:761:ARG:HG2	1:3:755:THR:HG21	2.01	0.41
1:2:794:LYS:HZ3	1:2:851:LEU:CD2	2.32	0.41
1:3:470:VAL:HG23	1:3:479:ARG:HB3	2.02	0.41
1:4:115:VAL:HG11	1:4:121:LEU:HG	2.01	0.41
1:5:124:ARG:HB3	1:5:160:LEU:HD21	2.01	0.41
1:5:154:GLN:O	1:5:155:LYS:HB3	2.19	0.41
1:6:723:LYS:HE2	1:7:735:ILE:HD11	2.02	0.41
1:7:66:VAL:HG22	1:7:84:ARG:HG2	2.02	0.41
1:7:136:LYS:HZ1	1:7:138:VAL:HB	1.85	0.41
1:9:186:ASP:OD1	1:9:186:ASP:N	2.54	0.41
1:9:470:VAL:HG23	1:9:479:ARG:HB3	2.02	0.41
1:AB:831:LEU:HD11	1:AJ:832:ILE:HD12	2.03	0.41
1:AC:326:LEU:HD11	1:AC:332:LEU:HG	2.01	0.41
1:AC:417:LYS:O	1:AC:452:ARG:NH2	2.42	0.41
1:AD:115:VAL:HG11	1:AD:121:LEU:HG	2.01	0.41
1:AD:293:LYS:HE2	1:AD:293:LYS:HB3	1.86	0.41
1:AG:115:VAL:HG11	1:AG:121:LEU:HG	2.01	0.41
1:AG:136:LYS:HZ1	1:AG:138:VAL:HB	1.85	0.41
1:AG:356:ARG:HE	1:AG:356:ARG:HB2	1.74	0.41
1:AG:402:ILE:HD11	1:AG:457:VAL:HG11	2.02	0.41
1:AH:606:PHE:O	1:AH:623:ARG:NH1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:417:LYS:O	1:AK:452:ARG:NH2	2.42	0.41
1:AK:795:PHE:CD1	1:AK:846:PHE:HE1	2.37	0.41
1:AL:205:LEU:HD12	1:AL:206:PRO:HD2	2.02	0.41
1:AM:174:LEU:HB3	1:AM:198:VAL:HG13	2.03	0.41
1:AO:723:LYS:HE3	1:AO:723:LYS:HB2	1.95	0.41
1:AP:8:ILE:O	1:AP:35:TYR:N	2.53	0.41
1:AP:66:VAL:HG22	1:AP:84:ARG:HG2	2.02	0.41
1:A:700:GLU:HG2	1:A:703:ARG:HH21	1.86	0.41
1:E:310:LEU:HD11	1:E:316:LEU:HG	2.02	0.41
1:E:723:LYS:HE2	1:F:735:ILE:HD11	2.02	0.41
1:G:550:SER:OG	1:G:557:GLU:OE2	2.38	0.41
1:H:377:ARG:NH1	1:H:408:LEU:O	2.54	0.41
1:I:366:VAL:HA	1:I:367:PRO:HD3	1.91	0.41
1:J:350:SER:O	1:J:350:SER:OG	2.32	0.41
1:J:831:LEU:HD11	1:R:832:ILE:HD12	2.03	0.41
1:K:90:ILE:H	1:K:90:ILE:HG13	1.68	0.41
1:K:177:ARG:HB2	1:K:195:GLU:HG2	2.01	0.41
1:L:747:LYS:O	1:L:751:LEU:HB2	2.20	0.41
1:M:709:LEU:HD13	1:N:701:LYS:HG3	2.03	0.41
1:S:350:SER:O	1:S:350:SER:OG	2.31	0.41
1:S:600:ARG:HB2	1:S:600:ARG:HE	1.65	0.41
1:S:700:GLU:HG2	1:S:703:ARG:HH21	1.86	0.41
1:U:136:LYS:HZ1	1:U:138:VAL:HB	1.85	0.41
1:W:310:LEU:HD11	1:W:316:LEU:HG	2.02	0.41
1:X:68:ASP:OD1	1:X:68:ASP:N	2.54	0.41
1:X:136:LYS:HZ1	1:X:138:VAL:HB	1.85	0.41
1:X:366:VAL:HA	1:X:367:PRO:HD3	1.91	0.41
1:Z:99:LEU:HD23	1:Z:99:LEU:HA	1.94	0.41
1:Z:350:SER:O	1:Z:350:SER:OG	2.31	0.41
1:a:155:LYS:HE3	1:a:155:LYS:HB3	1.88	0.41
1:a:606:PHE:O	1:a:623:ARG:NH1	2.53	0.41
1:b:832:ILE:HB	1:j:831:LEU:HD12	2.03	0.41
1:c:60:VAL:HG23	1:c:106:GLU:HB3	2.01	0.41
1:c:230:ARG:HB2	1:c:268:LEU:HD11	2.02	0.41
1:f:841:LEU:O	1:l:840:ASN:O	2.39	0.41
1:g:10:ILE:HA	1:g:11:PRO:HD3	1.91	0.41
1:g:310:LEU:HD11	1:g:316:LEU:HG	2.03	0.41
1:h:832:ILE:HB	1:p:831:LEU:HD12	2.03	0.41
1:k:606:PHE:O	1:k:623:ARG:NH1	2.53	0.41
1:l:186:ASP:N	1:l:186:ASP:OD1	2.54	0.41
1:l:470:VAL:HG23	1:l:479:ARG:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:529:ILE:HD13	1:l:579:VAL:HG12	2.01	0.41
1:s:8:ILE:O	1:s:35:TYR:N	2.52	0.41
1:v:124:ARG:HB3	1:v:160:LEU:HD11	2.02	0.41
1:w:700:GLU:HG2	1:w:703:ARG:HH21	1.86	0.41
1:x:841:LEU:O	1:3:840:ASN:O	2.39	0.41
1:y:310:LEU:HD11	1:y:316:LEU:HG	2.03	0.41
1:z:523:PHE:CE1	1:z:545:TRP:CE2	3.08	0.41
1:z:831:LEU:HD11	1:7:832:ILE:HD12	2.03	0.41
1:1:124:ARG:HB3	1:1:160:LEU:HD11	2.02	0.41
1:4:124:ARG:HB3	1:4:160:LEU:HD21	2.01	0.41
1:4:310:LEU:HD11	1:4:316:LEU:HG	2.03	0.41
1:4:390:VAL:O	1:4:398:VAL:HA	2.20	0.41
1:5:201:VAL:HG12	1:7:191:VAL:HG21	2.01	0.41
1:6:230:ARG:HB2	1:6:268:LEU:HD11	2.01	0.41
1:8:409:THR:OG1	1:8:410:GLN:N	2.53	0.41
1:AA:310:LEU:HD11	1:AA:316:LEU:HG	2.03	0.41
1:AA:417:LYS:O	1:AA:452:ARG:NH2	2.42	0.41
1:AA:595:SER:HG	1:AE:580:ARG:HH22	1.63	0.41
1:AA:606:PHE:O	1:AA:623:ARG:NH1	2.53	0.41
1:AC:174:LEU:HB3	1:AC:198:VAL:HG13	2.02	0.41
1:AC:606:PHE:O	1:AC:623:ARG:NH1	2.53	0.41
1:AC:647:ASP:OD2	1:AC:650:THR:OG1	2.32	0.41
1:AG:798:MET:HE1	1:AK:846:PHE:CE1	2.53	0.41
1:AG:825:LEU:CD2	1:AL:822:LEU:HB3	2.48	0.41
1:AI:174:LEU:HB3	1:AI:198:VAL:HG13	2.02	0.41
1:AJ:186:ASP:OD1	1:AJ:186:ASP:N	2.53	0.41
1:AJ:390:VAL:O	1:AJ:398:VAL:HA	2.21	0.41
1:AM:390:VAL:O	1:AM:398:VAL:HA	2.20	0.41
1:AN:124:ARG:HB3	1:AN:160:LEU:HD21	2.01	0.41
1:AO:186:ASP:OD1	1:AO:186:ASP:N	2.54	0.41
1:AO:310:LEU:HD11	1:AO:316:LEU:HG	2.02	0.41
1:AP:755:THR:O	1:AP:759:LEU:HB2	2.21	0.41
1:E:606:PHE:O	1:E:623:ARG:NH1	2.53	0.41
1:F:755:THR:O	1:F:759:LEU:HB2	2.21	0.41
1:G:481:VAL:HG21	1:G:487:VAL:HB	2.02	0.41
1:G:709:LEU:HD13	1:H:701:LYS:HG3	2.03	0.41
1:I:606:PHE:O	1:I:623:ARG:NH1	2.53	0.41
1:K:310:LEU:HD11	1:K:316:LEU:HG	2.02	0.41
1:L:179:ARG:HB2	1:L:209:PHE:HB3	2.01	0.41
1:L:755:THR:O	1:L:759:LEU:HB2	2.21	0.41
1:Q:310:LEU:HD11	1:Q:316:LEU:HG	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:175:ARG:NH1	1:U:195:GLU:OE1	2.45	0.41
1:V:606:PHE:O	1:V:623:ARG:NH1	2.53	0.41
1:X:66:VAL:HG22	1:X:84:ARG:HG2	2.02	0.41
1:X:174:LEU:HB3	1:X:198:VAL:HG13	2.02	0.41
1:Y:481:VAL:HG21	1:Y:487:VAL:HB	2.03	0.41
1:Z:560:LYS:NZ	1:Z:630:GLN:O	2.43	0.41
1:b:186:ASP:OD1	1:b:186:ASP:N	2.53	0.41
1:c:606:PHE:O	1:c:623:ARG:NH1	2.53	0.41
1:d:9:ARG:H	1:d:9:ARG:HG2	1.64	0.41
1:d:68:ASP:OD1	1:d:68:ASP:N	2.54	0.41
1:f:411:ASP:OD1	1:f:411:ASP:N	2.50	0.41
1:h:186:ASP:OD1	1:h:186:ASP:N	2.53	0.41
1:i:647:ASP:OD1	1:i:647:ASP:N	2.53	0.41
1:j:7:ILE:HD12	1:j:36:ILE:HG23	2.01	0.41
1:j:218:ALA:HB2	1:j:260:VAL:HG22	2.03	0.41
1:k:550:SER:OG	1:k:557:GLU:OE2	2.38	0.41
1:k:709:LEU:HD13	1:l:701:LYS:HG3	2.03	0.41
1:m:310:LEU:HD11	1:m:316:LEU:HG	2.03	0.41
1:o:723:LYS:HE2	1:p:735:ILE:HD11	2.02	0.41
1:q:550:SER:OG	1:q:557:GLU:OE2	2.38	0.41
1:r:841:LEU:O	1:x:840:ASN:O	2.39	0.41
1:s:306:LYS:HE2	1:s:306:LYS:HB3	1.92	0.41
1:s:310:LEU:HD11	1:s:316:LEU:HG	2.03	0.41
1:u:723:LYS:HE2	1:v:735:ILE:HD11	2.02	0.41
1:y:155:LYS:HE3	1:y:155:LYS:HB3	1.88	0.41
1:0:115:VAL:HG11	1:0:121:LEU:HG	2.03	0.41
1:0:310:LEU:HD11	1:0:316:LEU:HG	2.02	0.41
1:5:186:ASP:OD1	1:5:186:ASP:N	2.53	0.41
1:8:230:ARG:HB2	1:8:268:LEU:HD11	2.03	0.41
1:8:709:LEU:HD13	1:9:701:LYS:HG3	2.03	0.41
1:AB:606:PHE:O	1:AB:623:ARG:NH1	2.53	0.41
1:AD:755:THR:O	1:AD:759:LEU:HB2	2.21	0.41
1:AG:310:LEU:HD23	1:AG:310:LEU:HA	1.91	0.41
1:AH:523:PHE:CE1	1:AH:545:TRP:CE2	3.08	0.41
1:AH:529:ILE:HG13	1:AH:580:ARG:HG2	2.02	0.41
1:AI:310:LEU:HD11	1:AI:316:LEU:HG	2.02	0.41
1:AI:326:LEU:HD11	1:AI:332:LEU:HG	2.01	0.41
1:AI:575:ILE:HD11	1:AI:635:VAL:HG21	2.03	0.41
1:AJ:755:THR:O	1:AJ:759:LEU:HB2	2.21	0.41
1:AK:606:PHE:O	1:AK:623:ARG:NH1	2.53	0.41
1:AK:709:LEU:HD13	1:AL:701:LYS:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:115:VAL:HG11	1:AM:121:LEU:HG	2.01	0.41
1:AM:291:ASP:OD1	1:AM:291:ASP:N	2.43	0.41
1:AO:60:VAL:HG23	1:AO:106:GLU:HB3	2.01	0.41
1:AO:310:LEU:HD23	1:AO:310:LEU:HA	1.92	0.41
1:B:42:ARG:HD3	1:B:42:ARG:HA	1.99	0.41
1:B:377:ARG:NH1	1:B:408:LEU:O	2.54	0.41
1:B:470:VAL:HG23	1:B:479:ARG:HB3	2.02	0.41
1:C:174:LEU:HB3	1:C:198:VAL:HG13	2.03	0.41
1:F:747:LYS:O	1:F:751:LEU:HB2	2.20	0.41
1:G:424:GLU:OE2	1:G:452:ARG:NH1	2.45	0.41
1:G:486:LEU:H	1:H:476:LYS:HZ2	1.69	0.41
1:G:575:ILE:HD11	1:G:635:VAL:HG21	2.03	0.41
1:I:356:ARG:HE	1:I:356:ARG:HB2	1.74	0.41
1:K:411:ASP:OD1	1:K:411:ASP:N	2.44	0.41
1:Q:115:VAL:HG11	1:Q:121:LEU:HG	2.03	0.41
1:R:174:LEU:HB3	1:R:198:VAL:HG13	2.02	0.41
1:S:795:PHE:CD1	1:S:846:PHE:HE1	2.37	0.41
1:T:825:LEU:O	1:U:829:SER:OG	2.31	0.41
1:U:174:LEU:HB3	1:U:198:VAL:HG13	2.03	0.41
1:U:402:ILE:HD11	1:U:457:VAL:HG11	2.02	0.41
1:U:827:LEU:O	1:U:828:LYS:NZ	2.52	0.41
1:V:769:GLU:OE2	1:X:766:ARG:NH1	2.39	0.41
1:V:832:ILE:HB	1:d:831:LEU:HD12	2.02	0.41
1:W:186:ASP:N	1:W:186:ASP:OD1	2.54	0.41
1:W:647:ASP:N	1:W:647:ASP:OD1	2.53	0.41
1:X:124:ARG:HB3	1:X:160:LEU:HD11	2.02	0.41
1:X:356:ARG:HE	1:X:356:ARG:HB2	1.74	0.41
1:Y:99:LEU:HD23	1:Y:99:LEU:HA	1.94	0.41
1:Y:700:GLU:HG2	1:Y:703:ARG:HH21	1.86	0.41
1:b:831:LEU:HD11	1:j:832:ILE:HD12	2.03	0.41
1:d:7:ILE:HD12	1:d:36:ILE:HG23	2.02	0.41
1:d:218:ALA:HB2	1:d:260:VAL:HG22	2.03	0.41
1:e:224:LYS:HE2	1:e:224:LYS:HB3	1.98	0.41
1:f:186:ASP:N	1:f:186:ASP:OD1	2.54	0.41
1:g:306:LYS:HE2	1:g:306:LYS:HB3	1.92	0.41
1:i:647:ASP:OD2	1:i:650:THR:OG1	2.32	0.41
1:k:230:ARG:HB2	1:k:268:LEU:HD11	2.03	0.41
1:l:841:LEU:O	1:r:840:ASN:O	2.39	0.41
1:n:186:ASP:N	1:n:186:ASP:OD1	2.53	0.41
1:p:136:LYS:HZ1	1:p:138:VAL:HB	1.85	0.41
1:q:481:VAL:HG21	1:q:487:VAL:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:600:ARG:HB2	1:q:600:ARG:HE	1.65	0.41
1:r:205:LEU:HD12	1:r:206:PRO:HD2	2.01	0.41
1:s:279:GLN:HE21	1:w:338:GLN:HE21	1.68	0.41
1:u:186:ASP:OD1	1:u:186:ASP:N	2.54	0.41
1:u:326:LEU:HD11	1:u:332:LEU:HG	2.01	0.41
1:u:606:PHE:O	1:u:623:ARG:NH1	2.53	0.41
1:v:360:ARG:HE	1:v:360:ARG:HB2	1.73	0.41
1:v:390:VAL:O	1:v:398:VAL:HA	2.21	0.41
1:v:747:LYS:O	1:v:751:LEU:HB2	2.20	0.41
1:z:606:PHE:O	1:z:623:ARG:NH1	2.53	0.41
1:2:126:LEU:N	1:2:156:GLU:O	2.49	0.41
1:2:306:LYS:HE2	1:2:306:LYS:HB3	1.97	0.41
1:3:377:ARG:NH1	1:3:408:LEU:O	2.54	0.41
1:7:124:ARG:HB3	1:7:160:LEU:HD11	2.02	0.41
1:7:755:THR:O	1:7:759:LEU:HB2	2.21	0.41
1:AA:124:ARG:HB3	1:AA:160:LEU:HD21	2.01	0.41
1:AC:575:ILE:HD11	1:AC:635:VAL:HG21	2.03	0.41
1:AG:99:LEU:HD23	1:AG:99:LEU:HA	1.96	0.41
1:AG:293:LYS:HE2	1:AG:293:LYS:HB3	1.86	0.41
1:AI:541:LEU:HD12	1:AI:541:LEU:HA	1.93	0.41
1:AJ:66:VAL:HG22	1:AJ:84:ARG:HG2	2.02	0.41
1:AJ:115:VAL:HG11	1:AJ:121:LEU:HG	2.01	0.41
1:AJ:124:ARG:HB3	1:AJ:160:LEU:HD11	2.02	0.41
1:AP:124:ARG:HB3	1:AP:160:LEU:HD11	2.02	0.41
1:A:338:GLN:HE21	1:AM:279:GLN:HE21	1.68	0.41
1:D:64:PRO:HD2	1:D:87:ASP:HB3	2.01	0.41
1:D:606:PHE:O	1:D:623:ARG:NH1	2.53	0.41
1:E:115:VAL:HG11	1:E:121:LEU:HG	2.03	0.41
1:E:186:ASP:OD1	1:E:186:ASP:N	2.54	0.41
1:G:218:ALA:HB2	1:G:260:VAL:HG22	2.03	0.41
1:G:700:GLU:HG2	1:G:703:ARG:HH21	1.86	0.41
1:H:130:GLU:HB3	1:H:136:LYS:HA	2.02	0.41
1:I:279:GLN:HE21	1:M:338:GLN:HE21	1.67	0.41
1:J:121:LEU:HD23	1:J:121:LEU:HA	1.94	0.41
1:K:840:ASN:OD1	1:K:840:ASN:N	2.45	0.41
1:L:7:ILE:HD12	1:L:36:ILE:HG23	2.02	0.41
1:O:174:LEU:HB3	1:O:198:VAL:HG13	2.03	0.41
1:P:377:ARG:NH1	1:P:408:LEU:O	2.54	0.41
1:Q:126:LEU:N	1:Q:156:GLU:O	2.50	0.41
1:R:7:ILE:HD12	1:R:36:ILE:HG23	2.02	0.41
1:R:755:THR:O	1:R:759:LEU:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:99:LEU:HD23	1:U:99:LEU:HA	1.96	0.41
1:V:186:ASP:N	1:V:186:ASP:OD1	2.53	0.41
1:W:174:LEU:HB3	1:W:198:VAL:HG13	2.02	0.41
1:Y:709:LEU:HD13	1:Z:701:LYS:HG3	2.03	0.41
1:Z:529:ILE:HD13	1:Z:579:VAL:HG12	2.01	0.41
1:Z:841:LEU:O	1:f:840:ASN:O	2.39	0.41
1:a:306:LYS:HE2	1:a:306:LYS:HB3	1.92	0.41
1:a:310:LEU:HD11	1:a:316:LEU:HG	2.03	0.41
1:b:523:PHE:CE1	1:b:545:TRP:CE2	3.08	0.41
1:b:560:LYS:NZ	1:b:630:GLN:O	2.44	0.41
1:c:575:ILE:HD11	1:c:635:VAL:HG21	2.03	0.41
1:c:723:LYS:HE2	1:d:735:ILE:HD11	2.02	0.41
1:e:310:LEU:HD23	1:e:310:LEU:HA	1.91	0.41
1:f:42:ARG:HD3	1:f:42:ARG:HA	1.99	0.41
1:g:175:ARG:NH1	1:g:195:GLU:OE1	2.45	0.41
1:i:841:LEU:H	1:o:824:SER:HG	1.68	0.41
1:n:831:LEU:HD11	1:v:832:ILE:HD12	2.03	0.41
1:n:832:ILE:HB	1:v:831:LEU:HD12	2.02	0.41
1:p:124:ARG:HB3	1:p:160:LEU:HD11	2.02	0.41
1:p:390:VAL:O	1:p:398:VAL:HA	2.21	0.41
1:t:831:LEU:HD11	1:1:832:ILE:HD12	2.03	0.41
1:u:541:LEU:HD12	1:u:541:LEU:HA	1.93	0.41
1:v:66:VAL:HG22	1:v:84:ARG:HG2	2.02	0.41
1:y:186:ASP:OD1	1:y:186:ASP:N	2.54	0.41
1:y:606:PHE:O	1:y:623:ARG:NH1	2.53	0.41
1:3:186:ASP:OD1	1:3:186:ASP:N	2.54	0.41
1:3:578:ARG:NH1	1:3:603:VAL:O	2.54	0.41
1:4:10:ILE:HA	1:4:11:PRO:HD3	1.91	0.41
1:5:377:ARG:NH1	1:5:408:LEU:O	2.54	0.41
1:7:390:VAL:O	1:7:398:VAL:HA	2.21	0.41
1:9:155:LYS:HE2	1:9:155:LYS:HB3	1.72	0.41
1:9:411:ASP:OD1	1:9:411:ASP:N	2.50	0.41
1:AB:122:HIS:NE2	1:AB:142:GLU:OE1	2.49	0.41
1:AB:154:GLN:O	1:AB:155:LYS:HB3	2.19	0.41
1:AB:529:ILE:HG13	1:AB:580:ARG:HG2	2.02	0.41
1:AC:230:ARG:HB2	1:AC:268:LEU:HD11	2.02	0.41
1:AC:541:LEU:HD12	1:AC:541:LEU:HA	1.93	0.41
1:AE:409:THR:OG1	1:AE:410:GLN:N	2.53	0.41
1:AF:424:GLU:OE2	1:AF:452:ARG:NH1	2.45	0.41
1:AG:606:PHE:O	1:AG:623:ARG:NH1	2.53	0.41
1:AI:115:VAL:HG11	1:AI:121:LEU:HG	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:810:LEU:O	1:AI:818:GLN:NE2	2.54	0.41
1:AJ:174:LEU:HB3	1:AJ:198:VAL:HG13	2.02	0.41
1:AL:578:ARG:NH1	1:AL:603:VAL:O	2.54	0.41
1:AM:606:PHE:O	1:AM:623:ARG:NH1	2.53	0.41
1:AN:541:LEU:HD12	1:AN:541:LEU:HA	1.96	0.41
1:AN:606:PHE:O	1:AN:623:ARG:NH1	2.53	0.41
1:AO:115:VAL:HG11	1:AO:121:LEU:HG	2.03	0.41
1:AP:663:GLU:HA	1:AP:666:THR:HG22	2.03	0.41
1:B:130:GLU:HB3	1:B:136:LYS:HA	2.02	0.41
1:B:625:ARG:HA	1:B:625:ARG:HD3	1.88	0.41
1:C:186:ASP:N	1:C:186:ASP:OD1	2.54	0.41
1:D:124:ARG:HB3	1:D:160:LEU:HD21	2.01	0.41
1:D:377:ARG:NH1	1:D:408:LEU:O	2.54	0.41
1:D:529:ILE:HG13	1:D:580:ARG:HG2	2.02	0.41
1:E:644:GLU:HA	1:E:645:PRO:HD3	1.97	0.41
1:E:810:LEU:O	1:E:818:GLN:NE2	2.54	0.41
1:F:8:ILE:O	1:F:35:TYR:N	2.53	0.41
1:F:124:ARG:HB3	1:F:160:LEU:HD11	2.02	0.41
1:F:663:GLU:HA	1:F:666:THR:HG22	2.03	0.41
1:H:186:ASP:OD1	1:H:186:ASP:N	2.54	0.41
1:H:470:VAL:HG23	1:H:479:ARG:HB3	2.02	0.41
1:I:165:ALA:HB2	1:I:205:LEU:HD13	2.03	0.41
1:J:377:ARG:NH1	1:J:408:LEU:O	2.54	0.41
1:K:115:VAL:HG11	1:K:121:LEU:HG	2.03	0.41
1:L:155:LYS:HE3	1:L:155:LYS:HB3	1.88	0.41
1:L:424:GLU:OE2	1:L:452:ARG:NH1	2.47	0.41
1:M:218:ALA:HB2	1:M:260:VAL:HG22	2.03	0.41
1:M:481:VAL:HG21	1:M:487:VAL:HB	2.02	0.41
1:N:122:HIS:NE2	1:N:142:GLU:OE1	2.52	0.41
1:N:186:ASP:OD1	1:N:186:ASP:N	2.54	0.41
1:N:377:ARG:NH1	1:N:408:LEU:O	2.54	0.41
1:P:186:ASP:OD1	1:P:186:ASP:N	2.53	0.41
1:Q:90:ILE:H	1:Q:90:ILE:HG13	1.68	0.41
1:Q:186:ASP:N	1:Q:186:ASP:OD1	2.54	0.41
1:Q:291:ASP:OD1	1:Q:291:ASP:N	2.51	0.41
1:R:124:ARG:HB3	1:R:160:LEU:HD11	2.02	0.41
1:R:366:VAL:HA	1:R:367:PRO:HD3	1.91	0.41
1:S:90:ILE:H	1:S:90:ILE:HG13	1.65	0.41
1:S:155:LYS:HB3	1:S:155:LYS:HE3	1.77	0.41
1:S:218:ALA:HB2	1:S:260:VAL:HG22	2.03	0.41
1:T:205:LEU:HD12	1:T:206:PRO:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:377:ARG:NH1	1:V:408:LEU:O	2.54	0.41
1:V:523:PHE:CE1	1:V:545:TRP:CE2	3.08	0.41
1:V:795:PHE:HD1	1:c:827:LEU:HD13	1.85	0.41
1:W:575:ILE:HD11	1:W:635:VAL:HG21	2.03	0.41
1:X:7:ILE:HD12	1:X:36:ILE:HG23	2.02	0.41
1:X:8:ILE:O	1:X:35:TYR:N	2.53	0.41
1:X:218:ALA:HB2	1:X:260:VAL:HG22	2.03	0.41
1:X:798:MET:HE3	1:X:798:MET:HB3	1.95	0.41
1:Y:360:ARG:HE	1:Y:360:ARG:HB2	1.62	0.41
1:Z:122:HIS:NE2	1:Z:142:GLU:OE1	2.52	0.41
1:Z:310:LEU:HD11	1:Z:316:LEU:HG	2.03	0.41
1:a:175:ARG:NH1	1:a:195:GLU:OE1	2.45	0.41
1:a:186:ASP:N	1:a:186:ASP:OD1	2.54	0.41
1:a:402:ILE:HD11	1:a:457:VAL:HG11	2.02	0.41
1:b:377:ARG:NH1	1:b:408:LEU:O	2.54	0.41
1:c:115:VAL:HG11	1:c:121:LEU:HG	2.03	0.41
1:d:124:ARG:HB3	1:d:160:LEU:HD11	2.02	0.41
1:e:709:LEU:HD13	1:f:701:LYS:HG3	2.03	0.41
1:f:529:ILE:HD13	1:f:579:VAL:HG12	2.01	0.41
1:g:387:GLY:HA3	1:g:402:ILE:HD13	2.02	0.41
1:h:831:LEU:HD11	1:p:832:ILE:HD12	2.03	0.41
1:j:99:LEU:HD23	1:j:99:LEU:HA	1.96	0.41
1:j:186:ASP:OD1	1:j:186:ASP:N	2.54	0.41
1:j:390:VAL:O	1:j:398:VAL:HA	2.21	0.41
1:l:310:LEU:HD23	1:l:310:LEU:HA	1.92	0.41
1:n:523:PHE:CE1	1:n:545:TRP:CE2	3.08	0.41
1:n:606:PHE:O	1:n:623:ARG:NH1	2.53	0.41
1:o:115:VAL:HG11	1:o:121:LEU:HG	2.03	0.41
1:p:186:ASP:OD1	1:p:186:ASP:N	2.53	0.41
1:p:218:ALA:HB2	1:p:260:VAL:HG22	2.03	0.41
1:q:90:ILE:H	1:q:90:ILE:HG13	1.65	0.41
1:q:126:LEU:N	1:q:156:GLU:O	2.49	0.41
1:q:186:ASP:OD1	1:q:186:ASP:N	2.54	0.41
1:q:230:ARG:HB2	1:q:268:LEU:HD11	2.03	0.41
1:s:115:VAL:HG11	1:s:121:LEU:HG	2.01	0.41
1:s:121:LEU:HD23	1:s:121:LEU:HA	1.94	0.41
1:s:136:LYS:HZ1	1:s:138:VAL:HB	1.84	0.41
1:s:293:LYS:HE2	1:s:293:LYS:HB3	1.86	0.41
1:s:631:ASN:OD1	1:s:631:ASN:N	2.54	0.41
1:t:99:LEU:HD23	1:t:99:LEU:HA	1.95	0.41
1:t:523:PHE:CE1	1:t:545:TRP:CE2	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:115:VAL:HG11	1:u:121:LEU:HG	2.03	0.41
1:v:9:ARG:HE	1:v:9:ARG:HB3	1.55	0.41
1:v:186:ASP:N	1:v:186:ASP:OD1	2.53	0.41
1:v:663:GLU:HA	1:v:666:THR:HG22	2.03	0.41
1:w:366:VAL:HA	1:w:367:PRO:HD3	1.96	0.41
1:x:377:ARG:NH1	1:x:408:LEU:O	2.54	0.41
1:y:402:ILE:HD11	1:y:457:VAL:HG11	2.02	0.41
1:z:310:LEU:HD23	1:z:310:LEU:HA	1.93	0.41
1:z:377:ARG:NH1	1:z:408:LEU:O	2.54	0.41
1:z:529:ILE:HG13	1:z:580:ARG:HG2	2.02	0.41
1:0:186:ASP:N	1:0:186:ASP:OD1	2.54	0.41
1:1:779:LEU:HD12	1:1:779:LEU:HA	1.92	0.41
1:2:230:ARG:HB2	1:2:268:LEU:HD11	2.03	0.41
1:2:700:GLU:HG2	1:2:703:ARG:HH21	1.86	0.41
1:3:310:LEU:HD11	1:3:316:LEU:HG	2.03	0.41
1:3:841:LEU:O	1:9:840:ASN:O	2.39	0.41
1:4:402:ILE:HD11	1:4:457:VAL:HG11	2.02	0.41
1:4:631:ASN:OD1	1:4:631:ASN:N	2.54	0.41
1:5:529:ILE:HG13	1:5:580:ARG:HG2	2.02	0.41
1:5:606:PHE:O	1:5:623:ARG:NH1	2.53	0.41
1:6:36:ILE:H	1:6:36:ILE:HG13	1.57	0.41
1:6:99:LEU:HD23	1:6:99:LEU:HA	1.96	0.41
1:6:115:VAL:HG11	1:6:121:LEU:HG	2.03	0.41
1:6:575:ILE:HD11	1:6:635:VAL:HG21	2.03	0.41
1:8:306:LYS:HE2	1:8:306:LYS:HB3	1.97	0.41
1:8:575:ILE:HD11	1:8:635:VAL:HG21	2.03	0.41
1:8:700:GLU:HG2	1:8:703:ARG:HH21	1.86	0.41
1:8:827:LEU:HD13	1:9:795:PHE:CD1	2.49	0.41
1:9:122:HIS:NE2	1:9:142:GLU:OE1	2.52	0.41
1:9:377:ARG:NH1	1:9:408:LEU:O	2.54	0.41
1:9:578:ARG:NH1	1:9:603:VAL:O	2.54	0.41
1:AA:136:LYS:HZ1	1:AA:138:VAL:HB	1.85	0.41
1:AA:174:LEU:HB3	1:AA:198:VAL:HG13	2.03	0.41
1:AA:360:ARG:HE	1:AA:360:ARG:HB2	1.72	0.41
1:AB:377:ARG:NH1	1:AB:408:LEU:O	2.54	0.41
1:AC:115:VAL:HG11	1:AC:121:LEU:HG	2.03	0.41
1:AC:723:LYS:HE2	1:AD:735:ILE:HD11	2.02	0.41
1:AE:306:LYS:HE2	1:AE:306:LYS:HB3	1.97	0.41
1:AE:550:SER:OG	1:AE:557:GLU:OE2	2.38	0.41
1:AG:306:LYS:HE2	1:AG:306:LYS:HB3	1.92	0.41
1:AG:310:LEU:HD11	1:AG:316:LEU:HG	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:333:LEU:HD12	1:AH:333:LEU:HA	1.95	0.41
1:AH:476:LYS:HZ2	1:AO:486:LEU:H	1.69	0.41
1:AI:647:ASP:OD1	1:AI:647:ASP:N	2.53	0.41
1:AI:723:LYS:HE2	1:AJ:735:ILE:HD11	2.02	0.41
1:AJ:8:ILE:O	1:AJ:35:TYR:N	2.53	0.41
1:AJ:165:ALA:HB2	1:AJ:205:LEU:HD13	2.02	0.41
1:AJ:663:GLU:HA	1:AJ:666:THR:HG22	2.03	0.41
1:AK:162:ILE:H	1:AK:162:ILE:HG13	1.63	0.41
1:AL:130:GLU:HB3	1:AL:136:LYS:HA	2.02	0.41
1:AL:560:LYS:NZ	1:AL:630:GLN:O	2.43	0.41
1:AN:122:HIS:NE2	1:AN:142:GLU:OE1	2.49	0.41
1:AN:529:ILE:HG13	1:AN:580:ARG:HG2	2.02	0.41
1:AO:230:ARG:HB2	1:AO:268:LEU:HD11	2.01	0.41
1:AO:575:ILE:HD11	1:AO:635:VAL:HG21	2.03	0.41
1:AO:644:GLU:HA	1:AO:645:PRO:HD3	1.97	0.41
1:AP:174:LEU:HB3	1:AP:198:VAL:HG13	2.02	0.41
1:AP:390:VAL:O	1:AP:398:VAL:HA	2.21	0.41
1:A:550:SER:OG	1:A:557:GLU:OE2	2.38	0.41
1:A:580:ARG:HH22	1:AM:595:SER:HG	1.65	0.41
1:B:186:ASP:N	1:B:186:ASP:OD1	2.54	0.41
1:B:205:LEU:HD12	1:B:206:PRO:HD2	2.02	0.41
1:C:468:VAL:HG12	1:C:515:CYS:HA	2.03	0.41
1:F:390:VAL:O	1:F:398:VAL:HA	2.21	0.41
1:I:62:ALA:HB3	1:I:104:LEU:HB3	2.01	0.41
1:L:124:ARG:HB3	1:L:160:LEU:HD11	2.02	0.41
1:L:165:ALA:HB2	1:L:205:LEU:HD13	2.02	0.41
1:M:424:GLU:OE2	1:M:452:ARG:NH1	2.45	0.41
1:M:827:LEU:HD22	1:N:795:PHE:CD1	2.50	0.41
1:N:130:GLU:HB3	1:N:136:LYS:HA	2.02	0.41
1:O:9:ARG:HE	1:O:9:ARG:HB3	1.55	0.41
1:Q:644:GLU:HA	1:Q:645:PRO:HD3	1.97	0.41
1:R:39:ASP:O	1:R:42:ARG:NH2	2.51	0.41
1:S:709:LEU:HD13	1:T:701:LYS:HG3	2.03	0.41
1:T:310:LEU:HD11	1:T:316:LEU:HG	2.03	0.41
1:W:230:ARG:HB2	1:W:268:LEU:HD11	2.02	0.41
1:X:755:THR:O	1:X:759:LEU:HB2	2.21	0.41
1:e:624:ASP:OD1	1:e:624:ASP:N	2.51	0.41
1:f:310:LEU:HD11	1:f:316:LEU:HG	2.03	0.41
1:g:186:ASP:N	1:g:186:ASP:OD1	2.54	0.41
1:h:122:HIS:NE2	1:h:142:GLU:OE1	2.49	0.41
1:h:523:PHE:CE1	1:h:545:TRP:CE2	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:723:LYS:HE2	1:j:735:ILE:HD11	2.02	0.41
1:j:68:ASP:OD1	1:j:68:ASP:N	2.54	0.41
1:n:560:LYS:NZ	1:n:630:GLN:O	2.44	0.41
1:o:424:GLU:OE2	1:o:452:ARG:NH1	2.45	0.41
1:p:663:GLU:HA	1:p:666:THR:HG22	2.03	0.41
1:q:700:GLU:HG2	1:q:703:ARG:HH21	1.86	0.41
1:v:136:LYS:HZ1	1:v:138:VAL:HB	1.85	0.41
1:w:550:SER:OG	1:w:557:GLU:OE2	2.38	0.41
1:x:424:GLU:OE2	1:x:452:ARG:NH1	2.45	0.41
1:y:234:ASN:OD1	1:y:245:THR:OG1	2.37	0.41
1:z:42:ARG:HD3	1:z:42:ARG:HA	2.00	0.41
1:1:186:ASP:N	1:1:186:ASP:OD1	2.53	0.41
1:1:755:THR:O	1:1:759:LEU:HB2	2.21	0.41
1:2:481:VAL:HG21	1:2:487:VAL:HB	2.03	0.41
1:3:130:GLU:HB3	1:3:136:LYS:HA	2.02	0.41
1:5:122:HIS:NE2	1:5:142:GLU:OE1	2.49	0.41
1:5:832:ILE:HB	1:AD:831:LEU:HD12	2.03	0.41
1:6:810:LEU:O	1:6:818:GLN:NE2	2.54	0.41
1:8:550:SER:OG	1:8:557:GLU:OE2	2.38	0.41
1:9:130:GLU:HB3	1:9:136:LYS:HA	2.02	0.41
1:AB:832:ILE:HB	1:AJ:831:LEU:HD12	2.03	0.41
1:AC:191:VAL:HG21	1:AD:201:VAL:HG12	2.03	0.41
1:AC:310:LEU:HD11	1:AC:316:LEU:HG	2.02	0.41
1:AD:66:VAL:HG22	1:AD:84:ARG:HG2	2.02	0.41
1:AD:124:ARG:HB3	1:AD:160:LEU:HD11	2.02	0.41
1:AD:165:ALA:HB2	1:AD:205:LEU:HD13	2.02	0.41
1:AD:390:VAL:O	1:AD:398:VAL:HA	2.21	0.41
1:AF:130:GLU:HB3	1:AF:136:LYS:HA	2.03	0.41
1:AG:174:LEU:HB3	1:AG:198:VAL:HG13	2.03	0.41
1:AI:627:VAL:HG12	1:AI:634:VAL:HG22	2.03	0.41
1:AJ:503:GLY:O	1:AJ:506:LYS:NZ	2.47	0.41
1:AK:186:ASP:OD1	1:AK:186:ASP:N	2.54	0.41
1:AK:306:LYS:HE2	1:AK:306:LYS:HB3	1.97	0.41
1:AN:356:ARG:HA	1:AN:356:ARG:HD3	1.87	0.41
1:AN:468:VAL:HG12	1:AN:515:CYS:HA	2.03	0.41
1:AN:523:PHE:CE1	1:AN:545:TRP:CE2	3.08	0.41
1:AP:186:ASP:OD1	1:AP:186:ASP:N	2.53	0.41
1:D:468:VAL:HG12	1:D:515:CYS:HA	2.03	0.40
1:E:174:LEU:HB3	1:E:198:VAL:HG13	2.02	0.40
1:F:7:ILE:HD12	1:F:36:ILE:HG23	2.02	0.40
1:H:62:ALA:HB3	1:H:104:LEU:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:122:HIS:NE2	1:H:142:GLU:OE1	2.52	0.40
1:J:17:HIS:NE2	1:J:99:LEU:O	2.37	0.40
1:J:468:VAL:HG12	1:J:515:CYS:HA	2.03	0.40
1:K:644:GLU:HA	1:K:645:PRO:HD3	1.97	0.40
1:L:174:LEU:HB3	1:L:198:VAL:HG13	2.02	0.40
1:M:648:GLN:OE1	1:M:651:ARG:NH2	2.55	0.40
1:N:62:ALA:HB3	1:N:104:LEU:HB3	2.03	0.40
1:N:132:SER:OG	1:N:135:GLU:O	2.37	0.40
1:Q:174:LEU:HB3	1:Q:198:VAL:HG13	2.02	0.40
1:Q:177:ARG:HB2	1:Q:195:GLU:HG2	2.01	0.40
1:U:310:LEU:HD11	1:U:316:LEU:HG	2.03	0.40
1:X:39:ASP:O	1:X:42:ARG:NH2	2.52	0.40
1:X:186:ASP:OD1	1:X:186:ASP:N	2.53	0.40
1:X:390:VAL:O	1:X:398:VAL:HA	2.21	0.40
1:X:779:LEU:HD12	1:X:779:LEU:HA	1.92	0.40
1:Z:578:ARG:NH1	1:Z:603:VAL:O	2.54	0.40
1:a:174:LEU:HB3	1:a:198:VAL:HG13	2.03	0.40
1:d:390:VAL:O	1:d:398:VAL:HA	2.21	0.40
1:g:424:GLU:OE2	1:g:452:ARG:NH1	2.47	0.40
1:h:291:ASP:OD1	1:h:291:ASP:N	2.49	0.40
1:l:310:LEU:HD11	1:l:316:LEU:HG	2.03	0.40
1:p:755:THR:O	1:p:759:LEU:HB2	2.21	0.40
1:r:132:SER:OG	1:r:135:GLU:O	2.37	0.40
1:r:310:LEU:HD11	1:r:316:LEU:HG	2.03	0.40
1:r:350:SER:O	1:r:350:SER:OG	2.31	0.40
1:v:291:ASP:OD1	1:v:291:ASP:N	2.43	0.40
1:x:310:LEU:HD11	1:x:316:LEU:HG	2.03	0.40
1:y:84:ARG:NH2	1:y:89:GLU:OE1	2.55	0.40
1:y:424:GLU:OE2	1:y:452:ARG:NH1	2.47	0.40
1:1:360:ARG:HE	1:1:360:ARG:HB2	1.73	0.40
1:1:663:GLU:HA	1:1:666:THR:HG22	2.03	0.40
1:2:122:HIS:NE2	1:2:142:GLU:OE1	2.46	0.40
1:2:407:MET:HE3	1:2:407:MET:HB2	1.98	0.40
1:3:366:VAL:HA	1:3:367:PRO:HD3	1.95	0.40
1:5:523:PHE:CZ	1:5:545:TRP:CG	3.09	0.40
1:7:366:VAL:HA	1:7:367:PRO:HD3	1.91	0.40
1:8:810:LEU:O	1:8:818:GLN:NE2	2.54	0.40
1:9:310:LEU:HD11	1:9:316:LEU:HG	2.03	0.40
1:AA:84:ARG:NH2	1:AA:89:GLU:OE1	2.55	0.40
1:AE:310:LEU:HD23	1:AE:310:LEU:HA	1.91	0.40
1:AE:810:LEU:O	1:AE:818:GLN:NE2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:165:ALA:HB2	1:AG:205:LEU:HD13	2.03	0.40
1:AI:644:GLU:HA	1:AI:645:PRO:HD3	1.97	0.40
1:AK:409:THR:OG1	1:AK:410:GLN:N	2.53	0.40
1:AL:17:HIS:NE2	1:AL:99:LEU:O	2.38	0.40
1:AL:377:ARG:NH1	1:AL:408:LEU:O	2.54	0.40
1:AL:470:VAL:HG23	1:AL:479:ARG:HB3	2.02	0.40
1:AO:174:LEU:HB3	1:AO:198:VAL:HG13	2.02	0.40
1:A:186:ASP:OD1	1:A:186:ASP:N	2.54	0.40
1:A:218:ALA:HB2	1:A:260:VAL:HG22	2.03	0.40
1:A:326:LEU:HD11	1:A:332:LEU:HG	2.03	0.40
1:A:805:SER:O	1:A:808:LYS:HG3	2.22	0.40
1:F:174:LEU:HB3	1:F:198:VAL:HG13	2.02	0.40
1:G:44:LEU:HD13	1:G:44:LEU:HA	1.97	0.40
1:G:459:SER:HB3	1:G:486:LEU:HD11	2.04	0.40
1:I:468:VAL:HG12	1:I:515:CYS:HA	2.03	0.40
1:J:124:ARG:HB3	1:J:160:LEU:HD21	2.01	0.40
1:M:575:ILE:HD11	1:M:635:VAL:HG21	2.03	0.40
1:M:805:SER:O	1:M:808:LYS:HG3	2.22	0.40
1:N:310:LEU:HD11	1:N:316:LEU:HG	2.03	0.40
1:N:578:ARG:NH1	1:N:603:VAL:O	2.54	0.40
1:O:68:ASP:OD1	1:O:68:ASP:N	2.54	0.40
1:P:523:PHE:CE1	1:P:545:TRP:CE2	3.08	0.40
1:U:306:LYS:HE2	1:U:306:LYS:HB3	1.92	0.40
1:V:66:VAL:HA	1:V:84:ARG:HD3	2.04	0.40
1:V:175:ARG:NH1	1:V:195:GLU:OE1	2.44	0.40
1:V:523:PHE:CZ	1:V:545:TRP:CG	3.09	0.40
1:W:115:VAL:HG11	1:W:121:LEU:HG	2.03	0.40
1:a:165:ALA:HB2	1:a:205:LEU:HD13	2.04	0.40
1:a:293:LYS:HB3	1:a:293:LYS:HE2	1.86	0.40
1:a:631:ASN:OD1	1:a:631:ASN:N	2.54	0.40
1:i:575:ILE:HD11	1:i:635:VAL:HG21	2.03	0.40
1:i:805:SER:O	1:i:808:LYS:HG3	2.22	0.40
1:j:66:VAL:HG22	1:j:84:ARG:HG2	2.02	0.40
1:j:755:THR:O	1:j:759:LEU:HB2	2.21	0.40
1:m:165:ALA:HB2	1:m:205:LEU:HD13	2.03	0.40
1:o:326:LEU:HD11	1:o:332:LEU:HG	2.01	0.40
1:o:805:SER:O	1:o:808:LYS:HG3	2.22	0.40
1:q:155:LYS:HE3	1:q:155:LYS:HB3	1.77	0.40
1:r:578:ARG:NH1	1:r:603:VAL:O	2.54	0.40
1:s:165:ALA:HB2	1:s:205:LEU:HD13	2.03	0.40
1:s:186:ASP:OD1	1:s:186:ASP:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:377:ARG:NH1	1:t:408:LEU:O	2.54	0.40
1:u:126:LEU:N	1:u:156:GLU:O	2.50	0.40
1:u:224:LYS:HE2	1:u:224:LYS:HB3	1.99	0.40
1:v:39:ASP:O	1:v:42:ARG:NH2	2.52	0.40
1:w:810:LEU:O	1:w:818:GLN:NE2	2.54	0.40
1:y:306:LYS:HE2	1:y:306:LYS:HB3	1.92	0.40
1:z:827:LEU:HD21	1:1:831:LEU:CB	2.46	0.40
1:0:417:LYS:O	1:0:452:ARG:NH2	2.42	0.40
1:1:644:GLU:HA	1:1:645:PRO:HD3	1.98	0.40
1:5:17:HIS:NE2	1:5:99:LEU:O	2.37	0.40
1:6:627:VAL:HG12	1:6:634:VAL:HG22	2.03	0.40
1:6:840:ASN:OD1	1:6:840:ASN:N	2.45	0.40
1:AD:424:GLU:OE2	1:AD:452:ARG:NH1	2.47	0.40
1:AF:827:LEU:HD21	1:AG:831:LEU:CB	2.46	0.40
1:AI:90:ILE:H	1:AI:90:ILE:HG13	1.68	0.40
1:AK:648:GLN:OE1	1:AK:651:ARG:NH2	2.55	0.40
1:AL:132:SER:OG	1:AL:135:GLU:O	2.37	0.40
1:AL:186:ASP:N	1:AL:186:ASP:OD1	2.54	0.40
1:AM:84:ARG:NH2	1:AM:89:GLU:OE1	2.55	0.40
1:AM:310:LEU:HD11	1:AM:316:LEU:HG	2.03	0.40
1:AM:468:VAL:HG12	1:AM:515:CYS:HA	2.03	0.40
1:AO:326:LEU:HD11	1:AO:332:LEU:HG	2.01	0.40
1:AP:424:GLU:OE2	1:AP:452:ARG:NH1	2.47	0.40
1:A:481:VAL:HG21	1:A:487:VAL:HB	2.02	0.40
1:B:201:VAL:HG12	1:C:191:VAL:HG21	2.04	0.40
1:D:839:VAL:H	1:AN:838:PRO:HD2	1.87	0.40
1:G:174:LEU:HB3	1:G:198:VAL:HG13	2.04	0.40
1:G:326:LEU:HD11	1:G:332:LEU:HG	2.03	0.40
1:K:186:ASP:N	1:K:186:ASP:OD1	2.54	0.40
1:K:350:SER:O	1:K:350:SER:OG	2.31	0.40
1:L:39:ASP:O	1:L:42:ARG:NH2	2.52	0.40
1:N:470:VAL:HG23	1:N:479:ARG:HB3	2.02	0.40
1:N:768:LEU:HG	1:O:766:ARG:HH21	1.87	0.40
1:O:84:ARG:NH2	1:O:89:GLU:OE1	2.55	0.40
1:P:66:VAL:HA	1:P:84:ARG:HD3	2.04	0.40
1:P:468:VAL:HG12	1:P:515:CYS:HA	2.03	0.40
1:P:523:PHE:CZ	1:P:545:TRP:CG	3.09	0.40
1:Q:575:ILE:HD11	1:Q:635:VAL:HG21	2.03	0.40
1:T:578:ARG:NH1	1:T:603:VAL:O	2.54	0.40
1:T:841:LEU:O	1:Z:840:ASN:O	2.39	0.40
1:U:155:LYS:HE3	1:U:155:LYS:HB3	1.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:165:ALA:HB2	1:U:205:LEU:HD13	2.03	0.40
1:Y:218:ALA:HB2	1:Y:260:VAL:HG22	2.03	0.40
1:Y:326:LEU:HD11	1:Y:332:LEU:HG	2.03	0.40
1:Y:648:GLN:OE1	1:Y:651:ARG:NH2	2.55	0.40
1:Y:805:SER:O	1:Y:808:LYS:HG3	2.22	0.40
1:b:523:PHE:CZ	1:b:545:TRP:CG	3.09	0.40
1:c:99:LEU:HD23	1:c:99:LEU:HA	1.96	0.40
1:c:310:LEU:HD23	1:c:310:LEU:HA	1.92	0.40
1:e:648:GLN:OE1	1:e:651:ARG:NH2	2.55	0.40
1:e:700:GLU:HG2	1:e:703:ARG:HH21	1.86	0.40
1:f:377:ARG:NH1	1:f:408:LEU:O	2.54	0.40
1:h:377:ARG:NH1	1:h:408:LEU:O	2.54	0.40
1:i:115:VAL:HG11	1:i:121:LEU:HG	2.03	0.40
1:j:124:ARG:HB3	1:j:160:LEU:HD11	2.02	0.40
1:l:366:VAL:HA	1:l:367:PRO:HD3	1.95	0.40
1:l:377:ARG:NH1	1:l:408:LEU:O	2.54	0.40
1:p:7:ILE:HD12	1:p:36:ILE:HG23	2.02	0.40
1:r:17:HIS:NE2	1:r:99:LEU:O	2.38	0.40
1:t:560:LYS:NZ	1:t:630:GLN:O	2.44	0.40
1:u:191:VAL:HG21	1:v:201:VAL:HG12	2.03	0.40
1:v:165:ALA:HB2	1:v:205:LEU:HD13	2.02	0.40
1:w:326:LEU:HD11	1:w:332:LEU:HG	2.02	0.40
1:x:130:GLU:HB3	1:x:136:LYS:HA	2.02	0.40
1:x:186:ASP:OD1	1:x:186:ASP:N	2.54	0.40
1:x:291:ASP:OD1	1:x:291:ASP:N	2.49	0.40
1:2:810:LEU:O	1:2:818:GLN:NE2	2.54	0.40
1:3:310:LEU:HD23	1:3:310:LEU:HA	1.92	0.40
1:6:186:ASP:N	1:6:186:ASP:OD1	2.54	0.40
1:6:191:VAL:HG21	1:7:201:VAL:HG12	2.03	0.40
1:6:310:LEU:HD11	1:6:316:LEU:HG	2.02	0.40
1:6:647:ASP:OD2	1:6:650:THR:OG1	2.32	0.40
1:7:360:ARG:HE	1:7:360:ARG:HB2	1.73	0.40
1:AB:186:ASP:OD1	1:AB:186:ASP:N	2.53	0.40
1:AC:627:VAL:HG12	1:AC:634:VAL:HG22	2.04	0.40
1:AD:360:ARG:HE	1:AD:360:ARG:HB2	1.73	0.40
1:AE:99:LEU:HD23	1:AE:99:LEU:HA	1.94	0.40
1:AE:186:ASP:OD1	1:AE:186:ASP:N	2.54	0.40
1:AE:230:ARG:HB2	1:AE:268:LEU:HD11	2.03	0.40
1:AH:468:VAL:HG12	1:AH:515:CYS:HA	2.03	0.40
1:AH:832:ILE:HB	1:AP:831:LEU:HD12	2.03	0.40
1:AH:838:PRO:HD2	1:AN:839:VAL:H	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:293:LYS:HE2	1:AJ:293:LYS:HB3	1.86	0.40
1:AK:326:LEU:HD11	1:AK:332:LEU:HG	2.03	0.40
1:AK:805:SER:O	1:AK:808:LYS:HG3	2.22	0.40
1:AL:414:LEU:HD23	1:AL:414:LEU:HA	1.96	0.40
1:AM:186:ASP:N	1:AM:186:ASP:OD1	2.54	0.40
1:AN:377:ARG:NH1	1:AN:408:LEU:O	2.54	0.40
1:AO:43:ILE:H	1:AO:43:ILE:HG13	1.71	0.40
1:AO:541:LEU:HD12	1:AO:541:LEU:HA	1.93	0.40
1:AP:68:ASP:OD1	1:AP:68:ASP:N	2.54	0.40
1:A:174:LEU:HB3	1:A:198:VAL:HG13	2.04	0.40
1:B:841:LEU:O	1:H:840:ASN:O	2.39	0.40
1:C:165:ALA:HB2	1:C:205:LEU:HD13	2.03	0.40
1:D:17:HIS:NE2	1:D:99:LEU:O	2.37	0.40
1:D:66:VAL:HA	1:D:84:ARG:HD3	2.04	0.40
1:E:655:GLN:HG2	1:AN:649:ARG:NH2	2.37	0.40
1:I:186:ASP:OD1	1:I:186:ASP:N	2.54	0.40
1:J:523:PHE:CZ	1:J:545:TRP:CG	3.09	0.40
1:K:174:LEU:HB3	1:K:198:VAL:HG13	2.02	0.40
1:L:663:GLU:HA	1:L:666:THR:HG22	2.03	0.40
1:M:126:LEU:N	1:M:156:GLU:O	2.49	0.40
1:M:174:LEU:HB3	1:M:198:VAL:HG13	2.04	0.40
1:O:468:VAL:HG12	1:O:515:CYS:HA	2.03	0.40
1:P:531:THR:HA	1:P:584:ALA:HA	2.04	0.40
1:P:625:ARG:HD3	1:P:625:ARG:HA	1.88	0.40
1:P:832:ILE:HB	1:X:831:LEU:HD12	2.03	0.40
1:R:8:ILE:O	1:R:35:TYR:N	2.53	0.40
1:R:218:ALA:HB2	1:R:260:VAL:HG22	2.03	0.40
1:S:326:LEU:HD11	1:S:332:LEU:HG	2.03	0.40
1:S:648:GLN:OE1	1:S:651:ARG:NH2	2.55	0.40
1:T:470:VAL:HG23	1:T:479:ARG:HB3	2.02	0.40
1:V:531:THR:HA	1:V:584:ALA:HA	2.04	0.40
1:W:15:TYR:HA	1:W:29:GLU:O	2.22	0.40
1:W:840:ASN:OD1	1:W:840:ASN:N	2.45	0.40
1:Y:350:SER:O	1:Y:350:SER:OG	2.31	0.40
1:Z:175:ARG:NH1	1:Z:195:GLU:OE1	2.44	0.40
1:Z:644:GLU:HA	1:Z:645:PRO:HD3	2.00	0.40
1:a:53:VAL:HA	1:a:54:PRO:HD3	1.93	0.40
1:b:66:VAL:HA	1:b:84:ARG:HD3	2.04	0.40
1:b:531:THR:HA	1:b:584:ALA:HA	2.04	0.40
1:c:186:ASP:OD1	1:c:186:ASP:N	2.54	0.40
1:d:10:ILE:HA	1:d:11:PRO:HD3	1.92	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:165:ALA:HB2	1:d:205:LEU:HD13	2.02	0.40
1:e:44:LEU:HD13	1:e:44:LEU:HA	1.97	0.40
1:e:326:LEU:HD11	1:e:332:LEU:HG	2.02	0.40
1:e:575:ILE:HD11	1:e:635:VAL:HG21	2.03	0.40
1:e:805:SER:O	1:e:808:LYS:HG3	2.22	0.40
1:f:129:PHE:HE2	1:f:156:GLU:O	2.05	0.40
1:g:39:ASP:O	1:g:42:ARG:NH2	2.53	0.40
1:g:174:LEU:HB3	1:g:198:VAL:HG13	2.03	0.40
1:k:186:ASP:OD1	1:k:186:ASP:N	2.54	0.40
1:l:291:ASP:OD1	1:l:291:ASP:N	2.49	0.40
1:m:84:ARG:NH2	1:m:89:GLU:OE1	2.55	0.40
1:m:631:ASN:OD1	1:m:631:ASN:N	2.54	0.40
1:n:522:PHE:HA	1:n:543:TYR:O	2.22	0.40
1:n:837:THR:OG1	1:t:839:VAL:CB	2.66	0.40
1:o:64:PRO:HD2	1:o:87:ASP:HB3	2.04	0.40
1:s:402:ILE:HD11	1:s:457:VAL:HG11	2.02	0.40
1:t:832:ILE:HB	1:1:831:LEU:HD12	2.03	0.40
1:u:805:SER:O	1:u:808:LYS:HG3	2.22	0.40
1:v:218:ALA:HB2	1:v:260:VAL:HG22	2.03	0.40
1:2:360:ARG:HE	1:2:360:ARG:HB2	1.62	0.40
1:2:459:SER:HB3	1:2:486:LEU:HD11	2.04	0.40
1:2:550:SER:OG	1:2:557:GLU:OE2	2.38	0.40
1:2:579:VAL:O	1:2:583:VAL:HB	2.22	0.40
1:5:522:PHE:HA	1:5:543:TYR:O	2.22	0.40
1:9:841:LEU:O	1:AF:840:ASN:O	2.39	0.40
1:AA:10:ILE:HA	1:AA:11:PRO:HD3	1.91	0.40
1:AC:805:SER:O	1:AC:808:LYS:HG3	2.22	0.40
1:AE:326:LEU:HD11	1:AE:332:LEU:HG	2.03	0.40
1:AE:481:VAL:HG21	1:AE:487:VAL:HB	2.02	0.40
1:AE:840:ASN:OD1	1:AE:840:ASN:N	2.45	0.40
1:AF:201:VAL:HG12	1:AG:191:VAL:HG21	2.04	0.40
1:AF:470:VAL:HG23	1:AF:479:ARG:HB3	2.02	0.40
1:AF:768:LEU:HG	1:AG:766:ARG:HH21	1.87	0.40
1:AG:424:GLU:OE2	1:AG:452:ARG:NH1	2.47	0.40
1:AG:779:LEU:HD12	1:AG:779:LEU:HA	1.97	0.40
1:AH:377:ARG:NH1	1:AH:408:LEU:O	2.54	0.40
1:AJ:68:ASP:OD1	1:AJ:68:ASP:N	2.54	0.40
1:AK:600:ARG:HB2	1:AK:600:ARG:HE	1.65	0.40
1:AL:768:LEU:HG	1:AM:766:ARG:HH21	1.87	0.40
1:AO:350:SER:O	1:AO:350:SER:OG	2.31	0.40
1:AO:627:VAL:HG12	1:AO:634:VAL:HG22	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:230:ARG:HB2	1:AP:268:LEU:HD11	2.04	0.40
1:A:155:LYS:HB3	1:A:155:LYS:HE3	1.76	0.40
1:A:409:THR:OG1	1:A:410:GLN:N	2.53	0.40
1:A:459:SER:HB3	1:A:486:LEU:HD11	2.04	0.40
1:C:279:GLN:HE21	1:G:338:GLN:HE21	1.68	0.40
1:D:649:ARG:NH2	1:K:655:GLN:HG2	2.37	0.40
1:E:627:VAL:HG12	1:E:634:VAL:HG22	2.04	0.40
1:G:648:GLN:OE1	1:G:651:ARG:NH2	2.55	0.40
1:H:17:HIS:NE2	1:H:99:LEU:O	2.38	0.40
1:J:424:GLU:OE2	1:J:452:ARG:NH1	2.45	0.40
1:J:531:THR:HA	1:J:584:ALA:HA	2.04	0.40
1:J:649:ARG:NH2	1:Q:655:GLN:HG2	2.37	0.40
1:L:68:ASP:OD1	1:L:68:ASP:N	2.54	0.40
1:N:841:LEU:O	1:T:840:ASN:O	2.39	0.40
1:O:17:HIS:NE2	1:O:99:LEU:O	2.37	0.40
1:O:356:ARG:HE	1:O:356:ARG:HB2	1.74	0.40
1:Q:191:VAL:HG21	1:R:201:VAL:HG12	2.03	0.40
1:R:390:VAL:O	1:R:398:VAL:HA	2.21	0.40
1:S:174:LEU:HB3	1:S:198:VAL:HG13	2.04	0.40
1:S:805:SER:O	1:S:808:LYS:HG3	2.22	0.40
1:T:130:GLU:HB3	1:T:136:LYS:HA	2.02	0.40
1:T:155:LYS:HB3	1:T:155:LYS:HE2	1.72	0.40
1:T:186:ASP:OD1	1:T:186:ASP:N	2.54	0.40
1:T:377:ARG:NH1	1:T:408:LEU:O	2.54	0.40
1:T:768:LEU:HG	1:U:766:ARG:HH21	1.87	0.40
1:W:360:ARG:HE	1:W:360:ARG:HB2	1.63	0.40
1:Y:575:ILE:HD11	1:Y:635:VAL:HG21	2.03	0.40
1:Z:377:ARG:NH1	1:Z:408:LEU:O	2.54	0.40
1:b:310:LEU:HD23	1:b:310:LEU:HA	1.93	0.40
1:c:840:ASN:OD1	1:c:840:ASN:N	2.45	0.40
1:e:230:ARG:HB2	1:e:268:LEU:HD11	2.03	0.40
1:e:481:VAL:HG21	1:e:487:VAL:HB	2.02	0.40
1:f:578:ARG:NH1	1:f:603:VAL:O	2.54	0.40
1:f:768:LEU:HD13	1:g:759:LEU:HD13	2.04	0.40
1:g:402:ILE:HD11	1:g:457:VAL:HG11	2.02	0.40
1:h:531:THR:HA	1:h:584:ALA:HA	2.04	0.40
1:i:64:PRO:HD2	1:i:87:ASP:HB3	2.04	0.40
1:j:53:VAL:HA	1:j:54:PRO:HD3	1.95	0.40
1:k:459:SER:HB3	1:k:486:LEU:HD11	2.04	0.40
1:k:575:ILE:HD11	1:k:635:VAL:HG21	2.03	0.40
1:k:579:VAL:O	1:k:583:VAL:HB	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:121:LEU:HD23	1:l:121:LEU:HA	1.98	0.40
1:l:360:ARG:HE	1:l:360:ARG:HB2	1.79	0.40
1:m:186:ASP:N	1:m:186:ASP:OD1	2.54	0.40
1:m:402:ILE:HD11	1:m:457:VAL:HG11	2.02	0.40
1:n:531:THR:HA	1:n:584:ALA:HA	2.04	0.40
1:p:66:VAL:HG22	1:p:84:ARG:HG2	2.02	0.40
1:q:459:SER:HB3	1:q:486:LEU:HD11	2.04	0.40
1:q:579:VAL:O	1:q:583:VAL:HB	2.21	0.40
1:r:333:LEU:HD12	1:r:333:LEU:HA	1.94	0.40
1:r:377:ARG:NH1	1:r:408:LEU:O	2.54	0.40
1:r:768:LEU:HG	1:s:766:ARG:HH21	1.87	0.40
1:s:68:ASP:OD1	1:s:68:ASP:N	2.55	0.40
1:t:531:THR:HA	1:t:584:ALA:HA	2.04	0.40
1:u:64:PRO:HG2	1:u:84:ARG:HE	1.87	0.40
1:v:7:ILE:HD12	1:v:36:ILE:HG23	2.02	0.40
1:v:755:THR:O	1:v:759:LEU:HB2	2.21	0.40
1:w:218:ALA:HB2	1:w:260:VAL:HG22	2.03	0.40
1:x:129:PHE:HE2	1:x:156:GLU:O	2.05	0.40
1:x:578:ARG:NH1	1:x:603:VAL:O	2.54	0.40
1:z:832:ILE:HB	1:7:831:LEU:HD12	2.03	0.40
1:0:15:TYR:HA	1:0:29:GLU:O	2.22	0.40
1:0:36:ILE:H	1:0:36:ILE:HG13	1.57	0.40
1:0:575:ILE:HD11	1:0:635:VAL:HG21	2.03	0.40
1:0:805:SER:O	1:0:808:LYS:HG3	2.22	0.40
1:1:68:ASP:OD1	1:1:68:ASP:N	2.54	0.40
1:4:174:LEU:HB3	1:4:198:VAL:HG13	2.03	0.40
1:7:99:LEU:HD23	1:7:99:LEU:HA	1.96	0.40
1:8:459:SER:HB3	1:8:486:LEU:HD11	2.04	0.40
1:8:805:SER:O	1:8:808:LYS:HG3	2.22	0.40
1:9:201:VAL:HG12	1:AA:191:VAL:HG21	2.04	0.40
1:AA:53:VAL:HA	1:AA:54:PRO:HD3	1.93	0.40
1:AA:165:ALA:HB2	1:AA:205:LEU:HD13	2.03	0.40
1:AB:99:LEU:HD23	1:AB:99:LEU:HA	1.95	0.40
1:AB:132:SER:OG	1:AB:135:GLU:O	2.36	0.40
1:AB:523:PHE:CZ	1:AB:545:TRP:CG	3.09	0.40
1:AB:838:PRO:HD2	1:AH:839:VAL:H	1.87	0.40
1:AD:218:ALA:HB2	1:AD:260:VAL:HG22	2.03	0.40
1:AF:377:ARG:NH1	1:AF:408:LEU:O	2.54	0.40
1:AF:578:ARG:NH1	1:AF:603:VAL:O	2.54	0.40
1:AG:821:LEU:O	1:AG:824:SER:OG	2.40	0.40
1:AH:649:ARG:NH2	1:AO:655:GLN:HG2	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:360:ARG:HE	1:AJ:360:ARG:HB2	1.73	0.40
1:AK:550:SER:OG	1:AK:557:GLU:OE2	2.38	0.40
1:AK:779:LEU:HD12	1:AK:779:LEU:HA	1.95	0.40
1:AK:827:LEU:HD13	1:AL:795:PHE:CD1	2.49	0.40
1:AO:647:ASP:OD2	1:AO:650:THR:OG1	2.32	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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	0	785/890 (88%)	757 (96%)	28 (4%)	0	100	100
1	1	804/890 (90%)	773 (96%)	31 (4%)	0	100	100
1	2	785/890 (88%)	751 (96%)	34 (4%)	0	100	100
1	3	790/890 (89%)	753 (95%)	37 (5%)	0	100	100
1	4	804/890 (90%)	771 (96%)	33 (4%)	0	100	100
1	5	790/890 (89%)	750 (95%)	40 (5%)	0	100	100
1	6	785/890 (88%)	757 (96%)	28 (4%)	0	100	100
1	7	804/890 (90%)	773 (96%)	31 (4%)	0	100	100
1	8	785/890 (88%)	749 (95%)	36 (5%)	0	100	100
1	9	790/890 (89%)	753 (95%)	37 (5%)	0	100	100
1	A	785/890 (88%)	752 (96%)	33 (4%)	0	100	100
1	AA	804/890 (90%)	771 (96%)	33 (4%)	0	100	100
1	AB	790/890 (89%)	750 (95%)	40 (5%)	0	100	100
1	AC	785/890 (88%)	756 (96%)	29 (4%)	0	100	100
1	AD	804/890 (90%)	773 (96%)	31 (4%)	0	100	100
1	AE	785/890 (88%)	752 (96%)	33 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AF	790/890 (89%)	753 (95%)	37 (5%)	0	100	100
1	AG	804/890 (90%)	771 (96%)	33 (4%)	0	100	100
1	AH	790/890 (89%)	750 (95%)	40 (5%)	0	100	100
1	AI	785/890 (88%)	756 (96%)	29 (4%)	0	100	100
1	AJ	804/890 (90%)	773 (96%)	31 (4%)	0	100	100
1	AK	785/890 (88%)	750 (96%)	35 (4%)	0	100	100
1	AL	790/890 (89%)	753 (95%)	37 (5%)	0	100	100
1	AM	804/890 (90%)	771 (96%)	33 (4%)	0	100	100
1	AN	790/890 (89%)	750 (95%)	40 (5%)	0	100	100
1	AO	785/890 (88%)	757 (96%)	28 (4%)	0	100	100
1	AP	804/890 (90%)	773 (96%)	31 (4%)	0	100	100
1	B	790/890 (89%)	753 (95%)	37 (5%)	0	100	100
1	C	804/890 (90%)	771 (96%)	33 (4%)	0	100	100
1	D	790/890 (89%)	750 (95%)	40 (5%)	0	100	100
1	E	785/890 (88%)	756 (96%)	29 (4%)	0	100	100
1	F	804/890 (90%)	773 (96%)	31 (4%)	0	100	100
1	G	785/890 (88%)	752 (96%)	33 (4%)	0	100	100
1	H	790/890 (89%)	753 (95%)	37 (5%)	0	100	100
1	I	804/890 (90%)	771 (96%)	33 (4%)	0	100	100
1	J	790/890 (89%)	750 (95%)	40 (5%)	0	100	100
1	K	785/890 (88%)	756 (96%)	29 (4%)	0	100	100
1	L	804/890 (90%)	773 (96%)	31 (4%)	0	100	100
1	M	785/890 (88%)	751 (96%)	34 (4%)	0	100	100
1	N	790/890 (89%)	753 (95%)	37 (5%)	0	100	100
1	O	804/890 (90%)	771 (96%)	33 (4%)	0	100	100
1	P	790/890 (89%)	750 (95%)	40 (5%)	0	100	100
1	Q	785/890 (88%)	757 (96%)	28 (4%)	0	100	100
1	R	804/890 (90%)	773 (96%)	31 (4%)	0	100	100
1	S	785/890 (88%)	750 (96%)	35 (4%)	0	100	100
1	T	790/890 (89%)	753 (95%)	37 (5%)	0	100	100
1	U	804/890 (90%)	771 (96%)	33 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	V	790/890 (89%)	750 (95%)	40 (5%)	0	100	100
1	W	785/890 (88%)	757 (96%)	28 (4%)	0	100	100
1	X	804/890 (90%)	773 (96%)	31 (4%)	0	100	100
1	Y	785/890 (88%)	751 (96%)	34 (4%)	0	100	100
1	Z	790/890 (89%)	753 (95%)	37 (5%)	0	100	100
1	a	804/890 (90%)	771 (96%)	33 (4%)	0	100	100
1	b	790/890 (89%)	750 (95%)	40 (5%)	0	100	100
1	c	785/890 (88%)	756 (96%)	29 (4%)	0	100	100
1	d	804/890 (90%)	773 (96%)	31 (4%)	0	100	100
1	e	785/890 (88%)	752 (96%)	33 (4%)	0	100	100
1	f	790/890 (89%)	753 (95%)	37 (5%)	0	100	100
1	g	804/890 (90%)	771 (96%)	33 (4%)	0	100	100
1	h	790/890 (89%)	750 (95%)	40 (5%)	0	100	100
1	i	785/890 (88%)	757 (96%)	28 (4%)	0	100	100
1	j	804/890 (90%)	773 (96%)	31 (4%)	0	100	100
1	k	785/890 (88%)	751 (96%)	34 (4%)	0	100	100
1	l	790/890 (89%)	753 (95%)	37 (5%)	0	100	100
1	m	804/890 (90%)	771 (96%)	33 (4%)	0	100	100
1	n	790/890 (89%)	750 (95%)	40 (5%)	0	100	100
1	o	785/890 (88%)	756 (96%)	29 (4%)	0	100	100
1	p	804/890 (90%)	773 (96%)	31 (4%)	0	100	100
1	q	785/890 (88%)	752 (96%)	33 (4%)	0	100	100
1	r	790/890 (89%)	753 (95%)	37 (5%)	0	100	100
1	s	804/890 (90%)	771 (96%)	33 (4%)	0	100	100
1	t	790/890 (89%)	750 (95%)	40 (5%)	0	100	100
1	u	785/890 (88%)	757 (96%)	28 (4%)	0	100	100
1	v	804/890 (90%)	773 (96%)	31 (4%)	0	100	100
1	w	785/890 (88%)	751 (96%)	34 (4%)	0	100	100
1	x	790/890 (89%)	753 (95%)	37 (5%)	0	100	100
1	y	804/890 (90%)	771 (96%)	33 (4%)	0	100	100
1	z	790/890 (89%)	750 (95%)	40 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	61854/69420 (89%)	59210 (96%)	2644 (4%)	0	100 100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

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	0	674/748 (90%)	621 (92%)	53 (8%)	11 19
1	1	691/748 (92%)	632 (92%)	59 (8%)	10 16
1	2	673/748 (90%)	626 (93%)	47 (7%)	14 24
1	3	680/748 (91%)	631 (93%)	49 (7%)	13 23
1	4	691/748 (92%)	633 (92%)	58 (8%)	10 17
1	5	680/748 (91%)	632 (93%)	48 (7%)	13 23
1	6	674/748 (90%)	621 (92%)	53 (8%)	11 19
1	7	691/748 (92%)	634 (92%)	57 (8%)	10 18
1	8	673/748 (90%)	626 (93%)	47 (7%)	14 24
1	9	680/748 (91%)	632 (93%)	48 (7%)	13 23
1	A	673/748 (90%)	626 (93%)	47 (7%)	14 24
1	AA	691/748 (92%)	633 (92%)	58 (8%)	10 17
1	AB	680/748 (91%)	631 (93%)	49 (7%)	13 23
1	AC	674/748 (90%)	621 (92%)	53 (8%)	11 19
1	AD	691/748 (92%)	632 (92%)	59 (8%)	10 16
1	AE	673/748 (90%)	626 (93%)	47 (7%)	14 24
1	AF	680/748 (91%)	631 (93%)	49 (7%)	13 23
1	AG	691/748 (92%)	633 (92%)	58 (8%)	10 17
1	AH	680/748 (91%)	632 (93%)	48 (7%)	13 23
1	AI	674/748 (90%)	621 (92%)	53 (8%)	11 19
1	AJ	691/748 (92%)	632 (92%)	59 (8%)	10 16

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AK	673/748 (90%)	626 (93%)	47 (7%)	14	24
1	AL	680/748 (91%)	630 (93%)	50 (7%)	13	22
1	AM	691/748 (92%)	633 (92%)	58 (8%)	10	17
1	AN	680/748 (91%)	631 (93%)	49 (7%)	13	23
1	AO	674/748 (90%)	620 (92%)	54 (8%)	11	19
1	AP	691/748 (92%)	633 (92%)	58 (8%)	10	17
1	B	680/748 (91%)	631 (93%)	49 (7%)	13	23
1	C	691/748 (92%)	633 (92%)	58 (8%)	10	17
1	D	680/748 (91%)	631 (93%)	49 (7%)	13	23
1	E	674/748 (90%)	621 (92%)	53 (8%)	11	19
1	F	691/748 (92%)	632 (92%)	59 (8%)	10	16
1	G	673/748 (90%)	626 (93%)	47 (7%)	14	24
1	H	680/748 (91%)	631 (93%)	49 (7%)	13	23
1	I	691/748 (92%)	633 (92%)	58 (8%)	10	17
1	J	680/748 (91%)	632 (93%)	48 (7%)	13	23
1	K	674/748 (90%)	621 (92%)	53 (8%)	11	19
1	L	691/748 (92%)	632 (92%)	59 (8%)	10	16
1	M	673/748 (90%)	626 (93%)	47 (7%)	14	24
1	N	680/748 (91%)	631 (93%)	49 (7%)	13	23
1	O	691/748 (92%)	633 (92%)	58 (8%)	10	17
1	P	680/748 (91%)	633 (93%)	47 (7%)	14	24
1	Q	674/748 (90%)	621 (92%)	53 (8%)	11	19
1	R	691/748 (92%)	633 (92%)	58 (8%)	10	17
1	S	673/748 (90%)	626 (93%)	47 (7%)	14	24
1	T	680/748 (91%)	631 (93%)	49 (7%)	13	23
1	U	691/748 (92%)	633 (92%)	58 (8%)	10	17
1	V	680/748 (91%)	631 (93%)	49 (7%)	13	23
1	W	674/748 (90%)	621 (92%)	53 (8%)	11	19
1	X	691/748 (92%)	633 (92%)	58 (8%)	10	17
1	Y	673/748 (90%)	626 (93%)	47 (7%)	14	24
1	Z	680/748 (91%)	631 (93%)	49 (7%)	13	23

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	a	691/748 (92%)	633 (92%)	58 (8%)	10	17
1	b	680/748 (91%)	631 (93%)	49 (7%)	13	23
1	c	674/748 (90%)	621 (92%)	53 (8%)	11	19
1	d	691/748 (92%)	634 (92%)	57 (8%)	10	18
1	e	673/748 (90%)	626 (93%)	47 (7%)	14	24
1	f	680/748 (91%)	631 (93%)	49 (7%)	13	23
1	g	691/748 (92%)	633 (92%)	58 (8%)	10	17
1	h	680/748 (91%)	631 (93%)	49 (7%)	13	23
1	i	674/748 (90%)	621 (92%)	53 (8%)	11	19
1	j	691/748 (92%)	632 (92%)	59 (8%)	10	16
1	k	673/748 (90%)	626 (93%)	47 (7%)	14	24
1	l	680/748 (91%)	631 (93%)	49 (7%)	13	23
1	m	691/748 (92%)	633 (92%)	58 (8%)	10	17
1	n	680/748 (91%)	631 (93%)	49 (7%)	13	23
1	o	674/748 (90%)	621 (92%)	53 (8%)	11	19
1	p	691/748 (92%)	634 (92%)	57 (8%)	10	18
1	q	673/748 (90%)	626 (93%)	47 (7%)	14	24
1	r	680/748 (91%)	631 (93%)	49 (7%)	13	23
1	s	691/748 (92%)	633 (92%)	58 (8%)	10	17
1	t	680/748 (91%)	632 (93%)	48 (7%)	13	23
1	u	674/748 (90%)	620 (92%)	54 (8%)	11	19
1	v	691/748 (92%)	633 (92%)	58 (8%)	10	17
1	w	673/748 (90%)	626 (93%)	47 (7%)	14	24
1	x	680/748 (91%)	631 (93%)	49 (7%)	13	23
1	y	691/748 (92%)	633 (92%)	58 (8%)	10	17
1	z	680/748 (91%)	631 (93%)	49 (7%)	13	23
All	All	53157/58344 (91%)	49076 (92%)	4081 (8%)	14	20

All (4081) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	ILE
1	A	26	SER

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Mol	Chain	Res	Type
1	A	30	VAL
1	A	36	ILE
1	A	45	PHE
1	A	53	VAL
1	A	60	VAL
1	A	61	VAL
1	A	65	VAL
1	A	81	VAL
1	A	90	ILE
1	A	104	LEU
1	A	105	MET
1	A	128	ASP
1	A	132	SER
1	A	162	ILE
1	A	163	ILE
1	A	167	ILE
1	A	198	VAL
1	A	224	LYS
1	A	238	VAL
1	A	270	VAL
1	A	275	THR
1	A	349	VAL
1	A	366	VAL
1	A	411	ASP
1	A	481	VAL
1	A	514	LEU
1	A	522	PHE
1	A	549	VAL
1	A	568	VAL
1	A	573	LYS
1	A	583	VAL
1	A	585	SER
1	A	587	THR
1	A	593	LYS
1	A	599	ILE
1	A	600	ARG
1	A	638	VAL
1	A	663	GLU
1	A	683	GLU
1	A	759	LEU
1	A	762	VAL
1	A	779	LEU

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Mol	Chain	Res	Type
1	A	787	LEU
1	A	808	LYS
1	A	821	LEU
1	B	6	SER
1	B	18	VAL
1	B	19	LEU
1	B	26	SER
1	B	34	THR
1	B	36	ILE
1	B	81	VAL
1	B	84	ARG
1	B	104	LEU
1	B	116	LEU
1	B	133	ASN
1	B	154	GLN
1	B	155	LYS
1	B	162	ILE
1	B	163	ILE
1	B	167	ILE
1	B	183	CYS
1	B	198	VAL
1	B	199	ARG
1	B	208	VAL
1	B	238	VAL
1	B	243	ARG
1	B	270	VAL
1	B	286	ASP
1	B	325	VAL
1	B	340	LEU
1	B	366	VAL
1	B	375	GLU
1	B	411	ASP
1	B	459	SER
1	B	522	PHE
1	B	529	ILE
1	B	531	THR
1	B	547	PHE
1	B	549	VAL
1	B	587	THR
1	B	599	ILE
1	B	638	VAL
1	B	660	LEU

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Mol	Chain	Res	Type
1	B	759	LEU
1	B	762	VAL
1	B	768	LEU
1	B	770	LEU
1	B	777	LEU
1	B	779	LEU
1	B	796	LYS
1	B	819	VAL
1	B	828	LYS
1	B	837	THR
1	C	6	SER
1	C	9	ARG
1	C	10	ILE
1	C	34	THR
1	C	36	ILE
1	C	44	LEU
1	C	51	VAL
1	C	59	CYS
1	C	60	VAL
1	C	65	VAL
1	C	81	VAL
1	C	94	GLN
1	C	95	ASP
1	C	104	LEU
1	C	106	GLU
1	C	130	GLU
1	C	133	ASN
1	C	160	LEU
1	C	192	THR
1	C	198	VAL
1	C	208	VAL
1	C	214	ASP
1	C	238	VAL
1	C	256	THR
1	C	260	VAL
1	C	286	ASP
1	C	325	VAL
1	C	340	LEU
1	C	363	LEU
1	C	366	VAL
1	C	375	GLU
1	C	388	ILE

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Mol	Chain	Res	Type
1	C	394	LYS
1	C	409	THR
1	C	474	ARG
1	C	481	VAL
1	C	486	LEU
1	C	516	LEU
1	C	526	VAL
1	C	531	THR
1	C	533	ASP
1	C	547	PHE
1	C	549	VAL
1	C	578	ARG
1	C	583	VAL
1	C	585	SER
1	C	638	VAL
1	C	642	SER
1	C	650	THR
1	C	665	THR
1	C	713	SER
1	C	719	THR
1	C	751	LEU
1	C	759	LEU
1	C	762	VAL
1	C	777	LEU
1	C	796	LYS
1	C	821	LEU
1	D	18	VAL
1	D	19	LEU
1	D	26	SER
1	D	34	THR
1	D	36	ILE
1	D	81	VAL
1	D	104	LEU
1	D	130	GLU
1	D	133	ASN
1	D	162	ILE
1	D	192	THR
1	D	198	VAL
1	D	208	VAL
1	D	238	VAL
1	D	242	THR
1	D	253	VAL

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Mol	Chain	Res	Type
1	D	260	VAL
1	D	286	ASP
1	D	340	LEU
1	D	366	VAL
1	D	375	GLU
1	D	404	SER
1	D	411	ASP
1	D	459	SER
1	D	514	LEU
1	D	517	LEU
1	D	522	PHE
1	D	543	TYR
1	D	547	PHE
1	D	549	VAL
1	D	550	SER
1	D	568	VAL
1	D	580	ARG
1	D	585	SER
1	D	599	ILE
1	D	600	ARG
1	D	603	VAL
1	D	638	VAL
1	D	646	VAL
1	D	713	SER
1	D	747	LYS
1	D	759	LEU
1	D	770	LEU
1	D	777	LEU
1	D	779	LEU
1	D	796	LYS
1	D	819	VAL
1	D	828	LYS
1	D	837	THR
1	E	22	ASN
1	E	26	SER
1	E	30	VAL
1	E	34	THR
1	E	36	ILE
1	E	43	ILE
1	E	45	PHE
1	E	60	VAL
1	E	61	VAL

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Mol	Chain	Res	Type
1	E	65	VAL
1	E	84	ARG
1	E	90	ILE
1	E	104	LEU
1	E	105	MET
1	E	114	VAL
1	E	128	ASP
1	E	132	SER
1	E	163	ILE
1	E	167	ILE
1	E	198	VAL
1	E	208	VAL
1	E	238	VAL
1	E	243	ARG
1	E	256	THR
1	E	260	VAL
1	E	275	THR
1	E	286	ASP
1	E	349	VAL
1	E	366	VAL
1	E	404	SER
1	E	474	ARG
1	E	486	LEU
1	E	522	PHE
1	E	531	THR
1	E	549	VAL
1	E	568	VAL
1	E	583	VAL
1	E	585	SER
1	E	587	THR
1	E	595	SER
1	E	599	ILE
1	E	638	VAL
1	E	646	VAL
1	E	662	ILE
1	E	663	GLU
1	E	665	THR
1	E	683	GLU
1	E	713	SER
1	E	754	GLU
1	E	762	VAL
1	E	797	GLN

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Mol	Chain	Res	Type
1	E	808	LYS
1	E	821	LEU
1	F	7	ILE
1	F	9	ARG
1	F	10	ILE
1	F	18	VAL
1	F	19	LEU
1	F	26	SER
1	F	34	THR
1	F	36	ILE
1	F	43	ILE
1	F	52	THR
1	F	59	CYS
1	F	60	VAL
1	F	65	VAL
1	F	81	VAL
1	F	94	GLN
1	F	95	ASP
1	F	104	LEU
1	F	106	GLU
1	F	116	LEU
1	F	130	GLU
1	F	133	ASN
1	F	162	ILE
1	F	192	THR
1	F	198	VAL
1	F	208	VAL
1	F	238	VAL
1	F	242	THR
1	F	270	VAL
1	F	286	ASP
1	F	340	LEU
1	F	363	LEU
1	F	388	ILE
1	F	409	THR
1	F	474	ARG
1	F	486	LEU
1	F	514	LEU
1	F	516	LEU
1	F	517	LEU
1	F	526	VAL
1	F	531	THR

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Mol	Chain	Res	Type
1	F	533	ASP
1	F	547	PHE
1	F	561	LEU
1	F	573	LYS
1	F	583	VAL
1	F	585	SER
1	F	587	THR
1	F	600	ARG
1	F	603	VAL
1	F	638	VAL
1	F	650	THR
1	F	719	THR
1	F	747	LYS
1	F	759	LEU
1	F	762	VAL
1	F	768	LEU
1	F	777	LEU
1	F	779	LEU
1	F	821	LEU
1	G	7	ILE
1	G	26	SER
1	G	30	VAL
1	G	36	ILE
1	G	45	PHE
1	G	53	VAL
1	G	60	VAL
1	G	61	VAL
1	G	65	VAL
1	G	81	VAL
1	G	90	ILE
1	G	104	LEU
1	G	105	MET
1	G	128	ASP
1	G	132	SER
1	G	162	ILE
1	G	163	ILE
1	G	167	ILE
1	G	198	VAL
1	G	224	LYS
1	G	238	VAL
1	G	270	VAL
1	G	275	THR

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Mol	Chain	Res	Type
1	G	349	VAL
1	G	366	VAL
1	G	411	ASP
1	G	481	VAL
1	G	514	LEU
1	G	522	PHE
1	G	549	VAL
1	G	568	VAL
1	G	573	LYS
1	G	583	VAL
1	G	585	SER
1	G	587	THR
1	G	593	LYS
1	G	599	ILE
1	G	600	ARG
1	G	638	VAL
1	G	663	GLU
1	G	683	GLU
1	G	759	LEU
1	G	762	VAL
1	G	779	LEU
1	G	787	LEU
1	G	808	LYS
1	G	821	LEU
1	H	6	SER
1	H	18	VAL
1	H	19	LEU
1	H	26	SER
1	H	34	THR
1	H	36	ILE
1	H	81	VAL
1	H	84	ARG
1	H	104	LEU
1	H	116	LEU
1	H	133	ASN
1	H	154	GLN
1	H	155	LYS
1	H	162	ILE
1	H	163	ILE
1	H	167	ILE
1	H	183	CYS
1	H	198	VAL

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Mol	Chain	Res	Type
1	H	199	ARG
1	H	208	VAL
1	H	238	VAL
1	H	243	ARG
1	H	270	VAL
1	H	286	ASP
1	H	325	VAL
1	H	340	LEU
1	H	366	VAL
1	H	375	GLU
1	H	411	ASP
1	H	459	SER
1	H	522	PHE
1	H	529	ILE
1	H	531	THR
1	H	547	PHE
1	H	549	VAL
1	H	587	THR
1	H	599	ILE
1	H	638	VAL
1	H	660	LEU
1	H	759	LEU
1	H	762	VAL
1	H	768	LEU
1	H	770	LEU
1	H	777	LEU
1	H	779	LEU
1	H	796	LYS
1	H	819	VAL
1	H	828	LYS
1	H	837	THR
1	I	6	SER
1	I	9	ARG
1	I	10	ILE
1	I	34	THR
1	I	36	ILE
1	I	44	LEU
1	I	51	VAL
1	I	59	CYS
1	I	60	VAL
1	I	65	VAL
1	I	81	VAL

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Mol	Chain	Res	Type
1	I	94	GLN
1	I	95	ASP
1	I	104	LEU
1	I	106	GLU
1	I	130	GLU
1	I	133	ASN
1	I	160	LEU
1	I	192	THR
1	I	198	VAL
1	I	208	VAL
1	I	214	ASP
1	I	238	VAL
1	I	256	THR
1	I	260	VAL
1	I	286	ASP
1	I	325	VAL
1	I	340	LEU
1	I	363	LEU
1	I	366	VAL
1	I	375	GLU
1	I	388	ILE
1	I	394	LYS
1	I	409	THR
1	I	474	ARG
1	I	481	VAL
1	I	486	LEU
1	I	516	LEU
1	I	526	VAL
1	I	531	THR
1	I	533	ASP
1	I	547	PHE
1	I	549	VAL
1	I	578	ARG
1	I	583	VAL
1	I	585	SER
1	I	638	VAL
1	I	642	SER
1	I	650	THR
1	I	665	THR
1	I	713	SER
1	I	719	THR
1	I	751	LEU

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Mol	Chain	Res	Type
1	I	759	LEU
1	I	762	VAL
1	I	777	LEU
1	I	796	LYS
1	I	821	LEU
1	J	18	VAL
1	J	19	LEU
1	J	26	SER
1	J	34	THR
1	J	36	ILE
1	J	81	VAL
1	J	104	LEU
1	J	130	GLU
1	J	133	ASN
1	J	162	ILE
1	J	192	THR
1	J	198	VAL
1	J	208	VAL
1	J	238	VAL
1	J	242	THR
1	J	253	VAL
1	J	260	VAL
1	J	286	ASP
1	J	340	LEU
1	J	366	VAL
1	J	375	GLU
1	J	404	SER
1	J	411	ASP
1	J	459	SER
1	J	514	LEU
1	J	517	LEU
1	J	522	PHE
1	J	543	TYR
1	J	547	PHE
1	J	549	VAL
1	J	550	SER
1	J	568	VAL
1	J	580	ARG
1	J	599	ILE
1	J	600	ARG
1	J	603	VAL
1	J	638	VAL

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Mol	Chain	Res	Type
1	J	646	VAL
1	J	713	SER
1	J	747	LYS
1	J	759	LEU
1	J	770	LEU
1	J	777	LEU
1	J	779	LEU
1	J	796	LYS
1	J	819	VAL
1	J	828	LYS
1	J	837	THR
1	K	22	ASN
1	K	26	SER
1	K	30	VAL
1	K	34	THR
1	K	36	ILE
1	K	43	ILE
1	K	45	PHE
1	K	60	VAL
1	K	61	VAL
1	K	65	VAL
1	K	84	ARG
1	K	90	ILE
1	K	104	LEU
1	K	105	MET
1	K	114	VAL
1	K	128	ASP
1	K	132	SER
1	K	163	ILE
1	K	167	ILE
1	K	198	VAL
1	K	208	VAL
1	K	238	VAL
1	K	243	ARG
1	K	256	THR
1	K	260	VAL
1	K	275	THR
1	K	286	ASP
1	K	349	VAL
1	K	366	VAL
1	K	404	SER
1	K	474	ARG

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Mol	Chain	Res	Type
1	K	486	LEU
1	K	522	PHE
1	K	531	THR
1	K	549	VAL
1	K	568	VAL
1	K	583	VAL
1	K	585	SER
1	K	587	THR
1	K	595	SER
1	K	599	ILE
1	K	638	VAL
1	K	646	VAL
1	K	662	ILE
1	K	663	GLU
1	K	665	THR
1	K	683	GLU
1	K	713	SER
1	K	754	GLU
1	K	762	VAL
1	K	797	GLN
1	K	808	LYS
1	K	821	LEU
1	L	7	ILE
1	L	9	ARG
1	L	10	ILE
1	L	18	VAL
1	L	19	LEU
1	L	26	SER
1	L	34	THR
1	L	36	ILE
1	L	43	ILE
1	L	52	THR
1	L	59	CYS
1	L	60	VAL
1	L	65	VAL
1	L	81	VAL
1	L	94	GLN
1	L	95	ASP
1	L	104	LEU
1	L	106	GLU
1	L	116	LEU
1	L	130	GLU

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Mol	Chain	Res	Type
1	L	133	ASN
1	L	162	ILE
1	L	192	THR
1	L	198	VAL
1	L	208	VAL
1	L	238	VAL
1	L	242	THR
1	L	270	VAL
1	L	286	ASP
1	L	340	LEU
1	L	363	LEU
1	L	388	ILE
1	L	409	THR
1	L	474	ARG
1	L	486	LEU
1	L	514	LEU
1	L	516	LEU
1	L	517	LEU
1	L	526	VAL
1	L	531	THR
1	L	533	ASP
1	L	547	PHE
1	L	561	LEU
1	L	573	LYS
1	L	583	VAL
1	L	585	SER
1	L	587	THR
1	L	600	ARG
1	L	603	VAL
1	L	638	VAL
1	L	650	THR
1	L	719	THR
1	L	747	LYS
1	L	759	LEU
1	L	762	VAL
1	L	768	LEU
1	L	777	LEU
1	L	779	LEU
1	L	821	LEU
1	M	7	ILE
1	M	26	SER
1	M	30	VAL

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Mol	Chain	Res	Type
1	M	36	ILE
1	M	45	PHE
1	M	53	VAL
1	M	60	VAL
1	M	61	VAL
1	M	65	VAL
1	M	81	VAL
1	M	90	ILE
1	M	104	LEU
1	M	105	MET
1	M	128	ASP
1	M	132	SER
1	M	162	ILE
1	M	163	ILE
1	M	167	ILE
1	M	198	VAL
1	M	224	LYS
1	M	238	VAL
1	M	270	VAL
1	M	275	THR
1	M	349	VAL
1	M	366	VAL
1	M	411	ASP
1	M	481	VAL
1	M	514	LEU
1	M	522	PHE
1	M	549	VAL
1	M	568	VAL
1	M	573	LYS
1	M	583	VAL
1	M	585	SER
1	M	587	THR
1	M	593	LYS
1	M	599	ILE
1	M	600	ARG
1	M	638	VAL
1	M	663	GLU
1	M	683	GLU
1	M	759	LEU
1	M	762	VAL
1	M	779	LEU
1	M	787	LEU

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Mol	Chain	Res	Type
1	M	808	LYS
1	M	821	LEU
1	N	6	SER
1	N	18	VAL
1	N	19	LEU
1	N	26	SER
1	N	34	THR
1	N	36	ILE
1	N	81	VAL
1	N	84	ARG
1	N	104	LEU
1	N	116	LEU
1	N	133	ASN
1	N	154	GLN
1	N	155	LYS
1	N	162	ILE
1	N	163	ILE
1	N	167	ILE
1	N	183	CYS
1	N	198	VAL
1	N	199	ARG
1	N	208	VAL
1	N	238	VAL
1	N	243	ARG
1	N	270	VAL
1	N	286	ASP
1	N	325	VAL
1	N	340	LEU
1	N	366	VAL
1	N	375	GLU
1	N	411	ASP
1	N	459	SER
1	N	522	PHE
1	N	529	ILE
1	N	531	THR
1	N	547	PHE
1	N	549	VAL
1	N	587	THR
1	N	599	ILE
1	N	638	VAL
1	N	660	LEU
1	N	759	LEU

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Mol	Chain	Res	Type
1	N	762	VAL
1	N	768	LEU
1	N	770	LEU
1	N	777	LEU
1	N	779	LEU
1	N	796	LYS
1	N	819	VAL
1	N	828	LYS
1	N	837	THR
1	O	6	SER
1	O	9	ARG
1	O	10	ILE
1	O	34	THR
1	O	36	ILE
1	O	44	LEU
1	O	51	VAL
1	O	59	CYS
1	O	60	VAL
1	O	65	VAL
1	O	81	VAL
1	O	94	GLN
1	O	95	ASP
1	O	104	LEU
1	O	106	GLU
1	O	130	GLU
1	O	133	ASN
1	O	160	LEU
1	O	192	THR
1	O	198	VAL
1	O	208	VAL
1	O	214	ASP
1	O	238	VAL
1	O	256	THR
1	O	260	VAL
1	O	286	ASP
1	O	325	VAL
1	O	340	LEU
1	O	363	LEU
1	O	366	VAL
1	O	375	GLU
1	O	388	ILE
1	O	394	LYS

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Mol	Chain	Res	Type
1	O	409	THR
1	O	474	ARG
1	O	481	VAL
1	O	486	LEU
1	O	516	LEU
1	O	526	VAL
1	O	531	THR
1	O	533	ASP
1	O	547	PHE
1	O	549	VAL
1	O	578	ARG
1	O	583	VAL
1	O	585	SER
1	O	638	VAL
1	O	642	SER
1	O	650	THR
1	O	665	THR
1	O	713	SER
1	O	719	THR
1	O	751	LEU
1	O	759	LEU
1	O	762	VAL
1	O	777	LEU
1	O	796	LYS
1	O	821	LEU
1	P	18	VAL
1	P	19	LEU
1	P	26	SER
1	P	34	THR
1	P	36	ILE
1	P	81	VAL
1	P	104	LEU
1	P	130	GLU
1	P	133	ASN
1	P	162	ILE
1	P	192	THR
1	P	198	VAL
1	P	208	VAL
1	P	238	VAL
1	P	242	THR
1	P	253	VAL
1	P	260	VAL

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Mol	Chain	Res	Type
1	P	286	ASP
1	P	340	LEU
1	P	366	VAL
1	P	375	GLU
1	P	404	SER
1	P	411	ASP
1	P	459	SER
1	P	514	LEU
1	P	517	LEU
1	P	522	PHE
1	P	543	TYR
1	P	547	PHE
1	P	549	VAL
1	P	550	SER
1	P	568	VAL
1	P	580	ARG
1	P	599	ILE
1	P	600	ARG
1	P	603	VAL
1	P	638	VAL
1	P	646	VAL
1	P	713	SER
1	P	747	LYS
1	P	759	LEU
1	P	770	LEU
1	P	777	LEU
1	P	779	LEU
1	P	796	LYS
1	P	819	VAL
1	P	828	LYS
1	Q	22	ASN
1	Q	26	SER
1	Q	30	VAL
1	Q	34	THR
1	Q	36	ILE
1	Q	43	ILE
1	Q	45	PHE
1	Q	60	VAL
1	Q	61	VAL
1	Q	65	VAL
1	Q	84	ARG
1	Q	90	ILE

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Mol	Chain	Res	Type
1	Q	104	LEU
1	Q	105	MET
1	Q	114	VAL
1	Q	128	ASP
1	Q	132	SER
1	Q	163	ILE
1	Q	167	ILE
1	Q	198	VAL
1	Q	208	VAL
1	Q	238	VAL
1	Q	243	ARG
1	Q	256	THR
1	Q	260	VAL
1	Q	275	THR
1	Q	286	ASP
1	Q	349	VAL
1	Q	366	VAL
1	Q	404	SER
1	Q	474	ARG
1	Q	486	LEU
1	Q	522	PHE
1	Q	531	THR
1	Q	549	VAL
1	Q	568	VAL
1	Q	583	VAL
1	Q	585	SER
1	Q	587	THR
1	Q	595	SER
1	Q	599	ILE
1	Q	638	VAL
1	Q	646	VAL
1	Q	662	ILE
1	Q	663	GLU
1	Q	665	THR
1	Q	683	GLU
1	Q	713	SER
1	Q	754	GLU
1	Q	762	VAL
1	Q	797	GLN
1	Q	808	LYS
1	Q	821	LEU
1	R	7	ILE

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Mol	Chain	Res	Type
1	R	9	ARG
1	R	10	ILE
1	R	18	VAL
1	R	19	LEU
1	R	26	SER
1	R	34	THR
1	R	36	ILE
1	R	43	ILE
1	R	52	THR
1	R	59	CYS
1	R	60	VAL
1	R	65	VAL
1	R	81	VAL
1	R	94	GLN
1	R	104	LEU
1	R	106	GLU
1	R	116	LEU
1	R	130	GLU
1	R	133	ASN
1	R	162	ILE
1	R	192	THR
1	R	198	VAL
1	R	208	VAL
1	R	238	VAL
1	R	242	THR
1	R	270	VAL
1	R	286	ASP
1	R	340	LEU
1	R	363	LEU
1	R	388	ILE
1	R	409	THR
1	R	474	ARG
1	R	486	LEU
1	R	514	LEU
1	R	516	LEU
1	R	517	LEU
1	R	526	VAL
1	R	531	THR
1	R	533	ASP
1	R	547	PHE
1	R	561	LEU
1	R	573	LYS

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Mol	Chain	Res	Type
1	R	583	VAL
1	R	585	SER
1	R	587	THR
1	R	600	ARG
1	R	603	VAL
1	R	638	VAL
1	R	650	THR
1	R	719	THR
1	R	747	LYS
1	R	759	LEU
1	R	762	VAL
1	R	768	LEU
1	R	777	LEU
1	R	779	LEU
1	R	821	LEU
1	S	7	ILE
1	S	26	SER
1	S	30	VAL
1	S	36	ILE
1	S	45	PHE
1	S	53	VAL
1	S	60	VAL
1	S	61	VAL
1	S	65	VAL
1	S	81	VAL
1	S	90	ILE
1	S	104	LEU
1	S	105	MET
1	S	128	ASP
1	S	132	SER
1	S	162	ILE
1	S	163	ILE
1	S	167	ILE
1	S	198	VAL
1	S	224	LYS
1	S	238	VAL
1	S	270	VAL
1	S	275	THR
1	S	349	VAL
1	S	366	VAL
1	S	411	ASP
1	S	481	VAL

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Mol	Chain	Res	Type
1	S	514	LEU
1	S	522	PHE
1	S	549	VAL
1	S	568	VAL
1	S	573	LYS
1	S	583	VAL
1	S	585	SER
1	S	587	THR
1	S	593	LYS
1	S	599	ILE
1	S	600	ARG
1	S	638	VAL
1	S	663	GLU
1	S	683	GLU
1	S	759	LEU
1	S	762	VAL
1	S	779	LEU
1	S	787	LEU
1	S	808	LYS
1	S	821	LEU
1	T	6	SER
1	T	18	VAL
1	T	19	LEU
1	T	26	SER
1	T	34	THR
1	T	36	ILE
1	T	81	VAL
1	T	84	ARG
1	T	104	LEU
1	T	116	LEU
1	T	133	ASN
1	T	154	GLN
1	T	155	LYS
1	T	162	ILE
1	T	163	ILE
1	T	167	ILE
1	T	183	CYS
1	T	198	VAL
1	T	199	ARG
1	T	208	VAL
1	T	238	VAL
1	T	243	ARG

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Mol	Chain	Res	Type
1	T	270	VAL
1	T	286	ASP
1	T	325	VAL
1	T	340	LEU
1	T	366	VAL
1	T	375	GLU
1	T	411	ASP
1	T	459	SER
1	T	522	PHE
1	T	529	ILE
1	T	531	THR
1	T	547	PHE
1	T	549	VAL
1	T	587	THR
1	T	599	ILE
1	T	638	VAL
1	T	660	LEU
1	T	759	LEU
1	T	762	VAL
1	T	768	LEU
1	T	770	LEU
1	T	777	LEU
1	T	779	LEU
1	T	796	LYS
1	T	819	VAL
1	T	828	LYS
1	T	837	THR
1	U	6	SER
1	U	9	ARG
1	U	10	ILE
1	U	34	THR
1	U	36	ILE
1	U	44	LEU
1	U	51	VAL
1	U	59	CYS
1	U	60	VAL
1	U	65	VAL
1	U	81	VAL
1	U	94	GLN
1	U	95	ASP
1	U	104	LEU
1	U	106	GLU

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Mol	Chain	Res	Type
1	U	130	GLU
1	U	133	ASN
1	U	160	LEU
1	U	192	THR
1	U	198	VAL
1	U	208	VAL
1	U	214	ASP
1	U	238	VAL
1	U	256	THR
1	U	260	VAL
1	U	286	ASP
1	U	325	VAL
1	U	340	LEU
1	U	363	LEU
1	U	366	VAL
1	U	375	GLU
1	U	388	ILE
1	U	394	LYS
1	U	409	THR
1	U	474	ARG
1	U	481	VAL
1	U	486	LEU
1	U	516	LEU
1	U	526	VAL
1	U	531	THR
1	U	533	ASP
1	U	547	PHE
1	U	549	VAL
1	U	578	ARG
1	U	583	VAL
1	U	585	SER
1	U	638	VAL
1	U	642	SER
1	U	650	THR
1	U	665	THR
1	U	713	SER
1	U	719	THR
1	U	751	LEU
1	U	759	LEU
1	U	762	VAL
1	U	777	LEU
1	U	796	LYS

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Mol	Chain	Res	Type
1	U	821	LEU
1	V	18	VAL
1	V	19	LEU
1	V	26	SER
1	V	34	THR
1	V	36	ILE
1	V	81	VAL
1	V	104	LEU
1	V	130	GLU
1	V	133	ASN
1	V	162	ILE
1	V	192	THR
1	V	198	VAL
1	V	208	VAL
1	V	238	VAL
1	V	242	THR
1	V	253	VAL
1	V	260	VAL
1	V	286	ASP
1	V	340	LEU
1	V	366	VAL
1	V	375	GLU
1	V	404	SER
1	V	411	ASP
1	V	459	SER
1	V	514	LEU
1	V	517	LEU
1	V	522	PHE
1	V	543	TYR
1	V	547	PHE
1	V	549	VAL
1	V	550	SER
1	V	568	VAL
1	V	580	ARG
1	V	585	SER
1	V	599	ILE
1	V	600	ARG
1	V	603	VAL
1	V	638	VAL
1	V	646	VAL
1	V	713	SER
1	V	747	LYS

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Mol	Chain	Res	Type
1	V	759	LEU
1	V	770	LEU
1	V	777	LEU
1	V	779	LEU
1	V	796	LYS
1	V	819	VAL
1	V	828	LYS
1	V	837	THR
1	W	22	ASN
1	W	26	SER
1	W	30	VAL
1	W	34	THR
1	W	36	ILE
1	W	43	ILE
1	W	45	PHE
1	W	60	VAL
1	W	61	VAL
1	W	65	VAL
1	W	84	ARG
1	W	90	ILE
1	W	104	LEU
1	W	105	MET
1	W	114	VAL
1	W	128	ASP
1	W	132	SER
1	W	163	ILE
1	W	167	ILE
1	W	198	VAL
1	W	208	VAL
1	W	238	VAL
1	W	243	ARG
1	W	256	THR
1	W	260	VAL
1	W	275	THR
1	W	286	ASP
1	W	349	VAL
1	W	366	VAL
1	W	404	SER
1	W	474	ARG
1	W	486	LEU
1	W	522	PHE
1	W	531	THR

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Mol	Chain	Res	Type
1	W	549	VAL
1	W	568	VAL
1	W	583	VAL
1	W	585	SER
1	W	587	THR
1	W	595	SER
1	W	599	ILE
1	W	638	VAL
1	W	646	VAL
1	W	662	ILE
1	W	663	GLU
1	W	665	THR
1	W	683	GLU
1	W	713	SER
1	W	754	GLU
1	W	762	VAL
1	W	797	GLN
1	W	808	LYS
1	W	821	LEU
1	X	7	ILE
1	X	9	ARG
1	X	10	ILE
1	X	18	VAL
1	X	19	LEU
1	X	26	SER
1	X	34	THR
1	X	36	ILE
1	X	43	ILE
1	X	52	THR
1	X	59	CYS
1	X	60	VAL
1	X	65	VAL
1	X	81	VAL
1	X	94	GLN
1	X	104	LEU
1	X	106	GLU
1	X	116	LEU
1	X	130	GLU
1	X	133	ASN
1	X	162	ILE
1	X	192	THR
1	X	198	VAL

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Mol	Chain	Res	Type
1	X	208	VAL
1	X	238	VAL
1	X	242	THR
1	X	270	VAL
1	X	286	ASP
1	X	340	LEU
1	X	363	LEU
1	X	388	ILE
1	X	409	THR
1	X	474	ARG
1	X	486	LEU
1	X	514	LEU
1	X	516	LEU
1	X	517	LEU
1	X	526	VAL
1	X	531	THR
1	X	533	ASP
1	X	547	PHE
1	X	561	LEU
1	X	573	LYS
1	X	583	VAL
1	X	585	SER
1	X	587	THR
1	X	600	ARG
1	X	603	VAL
1	X	638	VAL
1	X	650	THR
1	X	719	THR
1	X	747	LYS
1	X	759	LEU
1	X	762	VAL
1	X	768	LEU
1	X	777	LEU
1	X	779	LEU
1	X	821	LEU
1	Y	7	ILE
1	Y	26	SER
1	Y	30	VAL
1	Y	36	ILE
1	Y	45	PHE
1	Y	53	VAL
1	Y	60	VAL

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Mol	Chain	Res	Type
1	Y	61	VAL
1	Y	65	VAL
1	Y	81	VAL
1	Y	90	ILE
1	Y	104	LEU
1	Y	105	MET
1	Y	128	ASP
1	Y	132	SER
1	Y	162	ILE
1	Y	163	ILE
1	Y	167	ILE
1	Y	198	VAL
1	Y	224	LYS
1	Y	238	VAL
1	Y	270	VAL
1	Y	275	THR
1	Y	349	VAL
1	Y	366	VAL
1	Y	411	ASP
1	Y	481	VAL
1	Y	514	LEU
1	Y	522	PHE
1	Y	549	VAL
1	Y	568	VAL
1	Y	573	LYS
1	Y	583	VAL
1	Y	585	SER
1	Y	587	THR
1	Y	593	LYS
1	Y	599	ILE
1	Y	600	ARG
1	Y	638	VAL
1	Y	663	GLU
1	Y	683	GLU
1	Y	759	LEU
1	Y	762	VAL
1	Y	779	LEU
1	Y	787	LEU
1	Y	808	LYS
1	Y	821	LEU
1	Z	6	SER
1	Z	18	VAL

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Mol	Chain	Res	Type
1	Z	19	LEU
1	Z	26	SER
1	Z	34	THR
1	Z	36	ILE
1	Z	81	VAL
1	Z	84	ARG
1	Z	104	LEU
1	Z	116	LEU
1	Z	133	ASN
1	Z	154	GLN
1	Z	155	LYS
1	Z	162	ILE
1	Z	163	ILE
1	Z	167	ILE
1	Z	183	CYS
1	Z	198	VAL
1	Z	199	ARG
1	Z	208	VAL
1	Z	238	VAL
1	Z	243	ARG
1	Z	270	VAL
1	Z	286	ASP
1	Z	325	VAL
1	Z	340	LEU
1	Z	366	VAL
1	Z	375	GLU
1	Z	411	ASP
1	Z	459	SER
1	Z	522	PHE
1	Z	529	ILE
1	Z	531	THR
1	Z	547	PHE
1	Z	549	VAL
1	Z	587	THR
1	Z	599	ILE
1	Z	638	VAL
1	Z	660	LEU
1	Z	759	LEU
1	Z	762	VAL
1	Z	768	LEU
1	Z	770	LEU
1	Z	777	LEU

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Mol	Chain	Res	Type
1	Z	779	LEU
1	Z	796	LYS
1	Z	819	VAL
1	Z	828	LYS
1	Z	837	THR
1	a	6	SER
1	a	9	ARG
1	a	10	ILE
1	a	34	THR
1	a	36	ILE
1	a	44	LEU
1	a	51	VAL
1	a	59	CYS
1	a	60	VAL
1	a	65	VAL
1	a	81	VAL
1	a	94	GLN
1	a	95	ASP
1	a	104	LEU
1	a	106	GLU
1	a	130	GLU
1	a	133	ASN
1	a	160	LEU
1	a	192	THR
1	a	198	VAL
1	a	208	VAL
1	a	214	ASP
1	a	238	VAL
1	a	256	THR
1	a	260	VAL
1	a	286	ASP
1	a	325	VAL
1	a	340	LEU
1	a	363	LEU
1	a	366	VAL
1	a	375	GLU
1	a	388	ILE
1	a	394	LYS
1	a	409	THR
1	a	474	ARG
1	a	481	VAL
1	a	486	LEU

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Mol	Chain	Res	Type
1	a	516	LEU
1	a	526	VAL
1	a	531	THR
1	a	533	ASP
1	a	547	PHE
1	a	549	VAL
1	a	578	ARG
1	a	583	VAL
1	a	585	SER
1	a	638	VAL
1	a	642	SER
1	a	650	THR
1	a	665	THR
1	a	713	SER
1	a	719	THR
1	a	751	LEU
1	a	759	LEU
1	a	762	VAL
1	a	777	LEU
1	a	796	LYS
1	a	821	LEU
1	b	18	VAL
1	b	19	LEU
1	b	26	SER
1	b	34	THR
1	b	36	ILE
1	b	81	VAL
1	b	104	LEU
1	b	130	GLU
1	b	133	ASN
1	b	162	ILE
1	b	192	THR
1	b	198	VAL
1	b	208	VAL
1	b	238	VAL
1	b	242	THR
1	b	253	VAL
1	b	260	VAL
1	b	286	ASP
1	b	340	LEU
1	b	366	VAL
1	b	375	GLU

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Mol	Chain	Res	Type
1	b	404	SER
1	b	411	ASP
1	b	459	SER
1	b	514	LEU
1	b	517	LEU
1	b	522	PHE
1	b	543	TYR
1	b	547	PHE
1	b	549	VAL
1	b	550	SER
1	b	568	VAL
1	b	580	ARG
1	b	585	SER
1	b	599	ILE
1	b	600	ARG
1	b	603	VAL
1	b	638	VAL
1	b	646	VAL
1	b	713	SER
1	b	747	LYS
1	b	759	LEU
1	b	770	LEU
1	b	777	LEU
1	b	779	LEU
1	b	796	LYS
1	b	819	VAL
1	b	828	LYS
1	b	837	THR
1	c	22	ASN
1	c	26	SER
1	c	30	VAL
1	c	34	THR
1	c	36	ILE
1	c	43	ILE
1	c	45	PHE
1	c	60	VAL
1	c	61	VAL
1	c	65	VAL
1	c	84	ARG
1	c	90	ILE
1	c	104	LEU
1	c	105	MET

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Mol	Chain	Res	Type
1	c	114	VAL
1	c	128	ASP
1	c	132	SER
1	c	163	ILE
1	c	167	ILE
1	c	198	VAL
1	c	208	VAL
1	c	238	VAL
1	c	243	ARG
1	c	256	THR
1	c	260	VAL
1	c	275	THR
1	c	286	ASP
1	c	349	VAL
1	c	366	VAL
1	c	404	SER
1	c	474	ARG
1	c	486	LEU
1	c	522	PHE
1	c	531	THR
1	c	549	VAL
1	c	568	VAL
1	c	583	VAL
1	c	585	SER
1	c	587	THR
1	c	595	SER
1	c	599	ILE
1	c	638	VAL
1	c	646	VAL
1	c	662	ILE
1	c	663	GLU
1	c	665	THR
1	c	683	GLU
1	c	713	SER
1	c	754	GLU
1	c	762	VAL
1	c	797	GLN
1	c	808	LYS
1	c	821	LEU
1	d	7	ILE
1	d	9	ARG
1	d	10	ILE

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Mol	Chain	Res	Type
1	d	18	VAL
1	d	19	LEU
1	d	26	SER
1	d	34	THR
1	d	36	ILE
1	d	52	THR
1	d	59	CYS
1	d	60	VAL
1	d	65	VAL
1	d	81	VAL
1	d	94	GLN
1	d	104	LEU
1	d	106	GLU
1	d	116	LEU
1	d	130	GLU
1	d	133	ASN
1	d	162	ILE
1	d	192	THR
1	d	198	VAL
1	d	208	VAL
1	d	238	VAL
1	d	242	THR
1	d	270	VAL
1	d	286	ASP
1	d	340	LEU
1	d	363	LEU
1	d	388	ILE
1	d	409	THR
1	d	474	ARG
1	d	486	LEU
1	d	514	LEU
1	d	516	LEU
1	d	517	LEU
1	d	526	VAL
1	d	531	THR
1	d	533	ASP
1	d	547	PHE
1	d	561	LEU
1	d	573	LYS
1	d	583	VAL
1	d	585	SER
1	d	587	THR

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Mol	Chain	Res	Type
1	d	600	ARG
1	d	603	VAL
1	d	638	VAL
1	d	650	THR
1	d	719	THR
1	d	747	LYS
1	d	759	LEU
1	d	762	VAL
1	d	768	LEU
1	d	777	LEU
1	d	779	LEU
1	d	821	LEU
1	e	7	ILE
1	e	26	SER
1	e	30	VAL
1	e	36	ILE
1	e	45	PHE
1	e	53	VAL
1	e	60	VAL
1	e	61	VAL
1	e	65	VAL
1	e	81	VAL
1	e	90	ILE
1	e	104	LEU
1	e	105	MET
1	e	128	ASP
1	e	132	SER
1	e	162	ILE
1	e	163	ILE
1	e	167	ILE
1	e	198	VAL
1	e	224	LYS
1	e	238	VAL
1	e	270	VAL
1	e	275	THR
1	e	349	VAL
1	e	366	VAL
1	e	411	ASP
1	e	481	VAL
1	e	514	LEU
1	e	522	PHE
1	e	549	VAL

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Mol	Chain	Res	Type
1	e	568	VAL
1	e	573	LYS
1	e	583	VAL
1	e	585	SER
1	e	587	THR
1	e	593	LYS
1	e	599	ILE
1	e	600	ARG
1	e	638	VAL
1	e	663	GLU
1	e	683	GLU
1	e	759	LEU
1	e	762	VAL
1	e	779	LEU
1	e	787	LEU
1	e	808	LYS
1	e	821	LEU
1	f	6	SER
1	f	18	VAL
1	f	19	LEU
1	f	26	SER
1	f	34	THR
1	f	36	ILE
1	f	81	VAL
1	f	84	ARG
1	f	104	LEU
1	f	116	LEU
1	f	133	ASN
1	f	154	GLN
1	f	155	LYS
1	f	162	ILE
1	f	163	ILE
1	f	167	ILE
1	f	183	CYS
1	f	198	VAL
1	f	199	ARG
1	f	208	VAL
1	f	238	VAL
1	f	243	ARG
1	f	270	VAL
1	f	286	ASP
1	f	325	VAL

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Mol	Chain	Res	Type
1	f	340	LEU
1	f	366	VAL
1	f	375	GLU
1	f	411	ASP
1	f	459	SER
1	f	522	PHE
1	f	529	ILE
1	f	531	THR
1	f	547	PHE
1	f	549	VAL
1	f	587	THR
1	f	599	ILE
1	f	638	VAL
1	f	660	LEU
1	f	759	LEU
1	f	762	VAL
1	f	768	LEU
1	f	770	LEU
1	f	777	LEU
1	f	779	LEU
1	f	796	LYS
1	f	819	VAL
1	f	828	LYS
1	f	837	THR
1	g	6	SER
1	g	9	ARG
1	g	10	ILE
1	g	34	THR
1	g	36	ILE
1	g	44	LEU
1	g	51	VAL
1	g	59	CYS
1	g	60	VAL
1	g	65	VAL
1	g	81	VAL
1	g	94	GLN
1	g	95	ASP
1	g	104	LEU
1	g	106	GLU
1	g	130	GLU
1	g	133	ASN
1	g	160	LEU

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Mol	Chain	Res	Type
1	g	192	THR
1	g	198	VAL
1	g	208	VAL
1	g	214	ASP
1	g	238	VAL
1	g	256	THR
1	g	260	VAL
1	g	286	ASP
1	g	325	VAL
1	g	340	LEU
1	g	363	LEU
1	g	366	VAL
1	g	375	GLU
1	g	388	ILE
1	g	394	LYS
1	g	409	THR
1	g	474	ARG
1	g	481	VAL
1	g	486	LEU
1	g	516	LEU
1	g	526	VAL
1	g	531	THR
1	g	533	ASP
1	g	547	PHE
1	g	549	VAL
1	g	578	ARG
1	g	583	VAL
1	g	585	SER
1	g	638	VAL
1	g	642	SER
1	g	650	THR
1	g	665	THR
1	g	713	SER
1	g	719	THR
1	g	751	LEU
1	g	759	LEU
1	g	762	VAL
1	g	777	LEU
1	g	796	LYS
1	g	821	LEU
1	h	18	VAL
1	h	19	LEU

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Mol	Chain	Res	Type
1	h	26	SER
1	h	34	THR
1	h	36	ILE
1	h	81	VAL
1	h	104	LEU
1	h	130	GLU
1	h	133	ASN
1	h	162	ILE
1	h	192	THR
1	h	198	VAL
1	h	208	VAL
1	h	238	VAL
1	h	242	THR
1	h	253	VAL
1	h	260	VAL
1	h	286	ASP
1	h	340	LEU
1	h	366	VAL
1	h	375	GLU
1	h	404	SER
1	h	411	ASP
1	h	459	SER
1	h	514	LEU
1	h	517	LEU
1	h	522	PHE
1	h	543	TYR
1	h	547	PHE
1	h	549	VAL
1	h	550	SER
1	h	568	VAL
1	h	580	ARG
1	h	585	SER
1	h	599	ILE
1	h	600	ARG
1	h	603	VAL
1	h	638	VAL
1	h	646	VAL
1	h	713	SER
1	h	747	LYS
1	h	759	LEU
1	h	770	LEU
1	h	777	LEU

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Mol	Chain	Res	Type
1	h	779	LEU
1	h	796	LYS
1	h	819	VAL
1	h	828	LYS
1	h	837	THR
1	i	22	ASN
1	i	26	SER
1	i	30	VAL
1	i	34	THR
1	i	36	ILE
1	i	43	ILE
1	i	45	PHE
1	i	60	VAL
1	i	61	VAL
1	i	65	VAL
1	i	84	ARG
1	i	90	ILE
1	i	104	LEU
1	i	105	MET
1	i	114	VAL
1	i	128	ASP
1	i	132	SER
1	i	163	ILE
1	i	167	ILE
1	i	198	VAL
1	i	208	VAL
1	i	238	VAL
1	i	243	ARG
1	i	256	THR
1	i	260	VAL
1	i	275	THR
1	i	286	ASP
1	i	349	VAL
1	i	366	VAL
1	i	404	SER
1	i	474	ARG
1	i	486	LEU
1	i	522	PHE
1	i	531	THR
1	i	549	VAL
1	i	568	VAL
1	i	583	VAL

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Mol	Chain	Res	Type
1	i	585	SER
1	i	587	THR
1	i	595	SER
1	i	599	ILE
1	i	638	VAL
1	i	646	VAL
1	i	662	ILE
1	i	663	GLU
1	i	665	THR
1	i	683	GLU
1	i	713	SER
1	i	754	GLU
1	i	762	VAL
1	i	797	GLN
1	i	808	LYS
1	i	821	LEU
1	j	7	ILE
1	j	9	ARG
1	j	10	ILE
1	j	18	VAL
1	j	19	LEU
1	j	26	SER
1	j	34	THR
1	j	36	ILE
1	j	43	ILE
1	j	52	THR
1	j	59	CYS
1	j	60	VAL
1	j	65	VAL
1	j	81	VAL
1	j	94	GLN
1	j	95	ASP
1	j	104	LEU
1	j	106	GLU
1	j	116	LEU
1	j	130	GLU
1	j	133	ASN
1	j	162	ILE
1	j	192	THR
1	j	198	VAL
1	j	208	VAL
1	j	238	VAL

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Mol	Chain	Res	Type
1	j	242	THR
1	j	270	VAL
1	j	286	ASP
1	j	340	LEU
1	j	363	LEU
1	j	388	ILE
1	j	409	THR
1	j	474	ARG
1	j	486	LEU
1	j	514	LEU
1	j	516	LEU
1	j	517	LEU
1	j	526	VAL
1	j	531	THR
1	j	533	ASP
1	j	547	PHE
1	j	561	LEU
1	j	573	LYS
1	j	583	VAL
1	j	585	SER
1	j	587	THR
1	j	600	ARG
1	j	603	VAL
1	j	638	VAL
1	j	650	THR
1	j	719	THR
1	j	747	LYS
1	j	759	LEU
1	j	762	VAL
1	j	768	LEU
1	j	777	LEU
1	j	779	LEU
1	j	821	LEU
1	k	7	ILE
1	k	26	SER
1	k	30	VAL
1	k	36	ILE
1	k	45	PHE
1	k	53	VAL
1	k	60	VAL
1	k	61	VAL
1	k	65	VAL

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Mol	Chain	Res	Type
1	k	81	VAL
1	k	90	ILE
1	k	104	LEU
1	k	105	MET
1	k	128	ASP
1	k	132	SER
1	k	162	ILE
1	k	163	ILE
1	k	167	ILE
1	k	198	VAL
1	k	224	LYS
1	k	238	VAL
1	k	270	VAL
1	k	275	THR
1	k	349	VAL
1	k	366	VAL
1	k	411	ASP
1	k	481	VAL
1	k	514	LEU
1	k	522	PHE
1	k	549	VAL
1	k	568	VAL
1	k	573	LYS
1	k	583	VAL
1	k	585	SER
1	k	587	THR
1	k	593	LYS
1	k	599	ILE
1	k	600	ARG
1	k	638	VAL
1	k	663	GLU
1	k	683	GLU
1	k	759	LEU
1	k	762	VAL
1	k	779	LEU
1	k	787	LEU
1	k	808	LYS
1	k	821	LEU
1	l	6	SER
1	l	18	VAL
1	l	19	LEU
1	l	26	SER

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Mol	Chain	Res	Type
1	l	34	THR
1	l	36	ILE
1	l	81	VAL
1	l	84	ARG
1	l	104	LEU
1	l	116	LEU
1	l	133	ASN
1	l	154	GLN
1	l	155	LYS
1	l	162	ILE
1	l	163	ILE
1	l	167	ILE
1	l	183	CYS
1	l	198	VAL
1	l	199	ARG
1	l	208	VAL
1	l	238	VAL
1	l	243	ARG
1	l	270	VAL
1	l	286	ASP
1	l	325	VAL
1	l	340	LEU
1	l	366	VAL
1	l	375	GLU
1	l	411	ASP
1	l	459	SER
1	l	522	PHE
1	l	529	ILE
1	l	531	THR
1	l	547	PHE
1	l	549	VAL
1	l	587	THR
1	l	599	ILE
1	l	638	VAL
1	l	660	LEU
1	l	759	LEU
1	l	762	VAL
1	l	768	LEU
1	l	770	LEU
1	l	777	LEU
1	l	779	LEU
1	l	796	LYS

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Mol	Chain	Res	Type
1	l	819	VAL
1	l	828	LYS
1	l	837	THR
1	m	6	SER
1	m	9	ARG
1	m	10	ILE
1	m	34	THR
1	m	36	ILE
1	m	44	LEU
1	m	51	VAL
1	m	59	CYS
1	m	60	VAL
1	m	65	VAL
1	m	81	VAL
1	m	94	GLN
1	m	95	ASP
1	m	104	LEU
1	m	106	GLU
1	m	130	GLU
1	m	133	ASN
1	m	160	LEU
1	m	192	THR
1	m	198	VAL
1	m	208	VAL
1	m	214	ASP
1	m	238	VAL
1	m	256	THR
1	m	260	VAL
1	m	286	ASP
1	m	325	VAL
1	m	340	LEU
1	m	363	LEU
1	m	366	VAL
1	m	375	GLU
1	m	388	ILE
1	m	394	LYS
1	m	409	THR
1	m	474	ARG
1	m	481	VAL
1	m	486	LEU
1	m	516	LEU
1	m	526	VAL

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Mol	Chain	Res	Type
1	m	531	THR
1	m	533	ASP
1	m	547	PHE
1	m	549	VAL
1	m	578	ARG
1	m	583	VAL
1	m	585	SER
1	m	638	VAL
1	m	642	SER
1	m	650	THR
1	m	665	THR
1	m	713	SER
1	m	719	THR
1	m	751	LEU
1	m	759	LEU
1	m	762	VAL
1	m	777	LEU
1	m	796	LYS
1	m	821	LEU
1	n	18	VAL
1	n	19	LEU
1	n	26	SER
1	n	34	THR
1	n	36	ILE
1	n	81	VAL
1	n	104	LEU
1	n	130	GLU
1	n	133	ASN
1	n	162	ILE
1	n	192	THR
1	n	198	VAL
1	n	208	VAL
1	n	238	VAL
1	n	242	THR
1	n	253	VAL
1	n	260	VAL
1	n	286	ASP
1	n	340	LEU
1	n	366	VAL
1	n	375	GLU
1	n	404	SER
1	n	411	ASP

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Mol	Chain	Res	Type
1	n	459	SER
1	n	514	LEU
1	n	517	LEU
1	n	522	PHE
1	n	543	TYR
1	n	547	PHE
1	n	549	VAL
1	n	550	SER
1	n	568	VAL
1	n	580	ARG
1	n	585	SER
1	n	599	ILE
1	n	600	ARG
1	n	603	VAL
1	n	638	VAL
1	n	646	VAL
1	n	713	SER
1	n	747	LYS
1	n	759	LEU
1	n	770	LEU
1	n	777	LEU
1	n	779	LEU
1	n	796	LYS
1	n	819	VAL
1	n	828	LYS
1	n	837	THR
1	o	22	ASN
1	o	26	SER
1	o	30	VAL
1	o	34	THR
1	o	36	ILE
1	o	43	ILE
1	o	45	PHE
1	o	60	VAL
1	o	61	VAL
1	o	65	VAL
1	o	84	ARG
1	o	90	ILE
1	o	104	LEU
1	o	105	MET
1	o	114	VAL
1	o	128	ASP

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Mol	Chain	Res	Type
1	o	132	SER
1	o	163	ILE
1	o	167	ILE
1	o	198	VAL
1	o	208	VAL
1	o	238	VAL
1	o	243	ARG
1	o	256	THR
1	o	260	VAL
1	o	275	THR
1	o	286	ASP
1	o	349	VAL
1	o	366	VAL
1	o	404	SER
1	o	474	ARG
1	o	486	LEU
1	o	522	PHE
1	o	531	THR
1	o	549	VAL
1	o	568	VAL
1	o	583	VAL
1	o	585	SER
1	o	587	THR
1	o	595	SER
1	o	599	ILE
1	o	638	VAL
1	o	646	VAL
1	o	662	ILE
1	o	663	GLU
1	o	665	THR
1	o	683	GLU
1	o	713	SER
1	o	754	GLU
1	o	762	VAL
1	o	797	GLN
1	o	808	LYS
1	o	821	LEU
1	p	7	ILE
1	p	9	ARG
1	p	10	ILE
1	p	18	VAL
1	p	19	LEU

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Mol	Chain	Res	Type
1	p	26	SER
1	p	34	THR
1	p	36	ILE
1	p	52	THR
1	p	59	CYS
1	p	60	VAL
1	p	65	VAL
1	p	81	VAL
1	p	94	GLN
1	p	104	LEU
1	p	106	GLU
1	p	116	LEU
1	p	130	GLU
1	p	133	ASN
1	p	162	ILE
1	p	192	THR
1	p	198	VAL
1	p	208	VAL
1	p	238	VAL
1	p	242	THR
1	p	270	VAL
1	p	286	ASP
1	p	340	LEU
1	p	363	LEU
1	p	388	ILE
1	p	409	THR
1	p	474	ARG
1	p	486	LEU
1	p	514	LEU
1	p	516	LEU
1	p	517	LEU
1	p	526	VAL
1	p	531	THR
1	p	533	ASP
1	p	547	PHE
1	p	561	LEU
1	p	573	LYS
1	p	583	VAL
1	p	585	SER
1	p	587	THR
1	p	600	ARG
1	p	603	VAL

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Mol	Chain	Res	Type
1	p	638	VAL
1	p	650	THR
1	p	719	THR
1	p	747	LYS
1	p	759	LEU
1	p	762	VAL
1	p	768	LEU
1	p	777	LEU
1	p	779	LEU
1	p	821	LEU
1	q	7	ILE
1	q	26	SER
1	q	30	VAL
1	q	36	ILE
1	q	45	PHE
1	q	53	VAL
1	q	60	VAL
1	q	61	VAL
1	q	65	VAL
1	q	81	VAL
1	q	90	ILE
1	q	104	LEU
1	q	105	MET
1	q	128	ASP
1	q	132	SER
1	q	162	ILE
1	q	163	ILE
1	q	167	ILE
1	q	198	VAL
1	q	224	LYS
1	q	238	VAL
1	q	270	VAL
1	q	275	THR
1	q	349	VAL
1	q	366	VAL
1	q	411	ASP
1	q	481	VAL
1	q	514	LEU
1	q	522	PHE
1	q	549	VAL
1	q	568	VAL
1	q	573	LYS

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Mol	Chain	Res	Type
1	q	583	VAL
1	q	585	SER
1	q	587	THR
1	q	593	LYS
1	q	599	ILE
1	q	600	ARG
1	q	638	VAL
1	q	663	GLU
1	q	683	GLU
1	q	759	LEU
1	q	762	VAL
1	q	779	LEU
1	q	787	LEU
1	q	808	LYS
1	q	821	LEU
1	r	6	SER
1	r	18	VAL
1	r	19	LEU
1	r	26	SER
1	r	34	THR
1	r	36	ILE
1	r	81	VAL
1	r	84	ARG
1	r	104	LEU
1	r	116	LEU
1	r	133	ASN
1	r	154	GLN
1	r	155	LYS
1	r	162	ILE
1	r	163	ILE
1	r	167	ILE
1	r	183	CYS
1	r	198	VAL
1	r	199	ARG
1	r	208	VAL
1	r	238	VAL
1	r	243	ARG
1	r	270	VAL
1	r	286	ASP
1	r	325	VAL
1	r	340	LEU
1	r	366	VAL

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Mol	Chain	Res	Type
1	r	375	GLU
1	r	411	ASP
1	r	459	SER
1	r	522	PHE
1	r	529	ILE
1	r	531	THR
1	r	547	PHE
1	r	549	VAL
1	r	587	THR
1	r	599	ILE
1	r	638	VAL
1	r	660	LEU
1	r	759	LEU
1	r	762	VAL
1	r	768	LEU
1	r	770	LEU
1	r	777	LEU
1	r	779	LEU
1	r	796	LYS
1	r	819	VAL
1	r	828	LYS
1	r	837	THR
1	s	6	SER
1	s	9	ARG
1	s	10	ILE
1	s	34	THR
1	s	36	ILE
1	s	44	LEU
1	s	51	VAL
1	s	59	CYS
1	s	60	VAL
1	s	65	VAL
1	s	81	VAL
1	s	94	GLN
1	s	95	ASP
1	s	104	LEU
1	s	106	GLU
1	s	130	GLU
1	s	133	ASN
1	s	160	LEU
1	s	192	THR
1	s	198	VAL

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Mol	Chain	Res	Type
1	s	208	VAL
1	s	214	ASP
1	s	238	VAL
1	s	256	THR
1	s	260	VAL
1	s	286	ASP
1	s	325	VAL
1	s	340	LEU
1	s	363	LEU
1	s	366	VAL
1	s	375	GLU
1	s	388	ILE
1	s	394	LYS
1	s	409	THR
1	s	474	ARG
1	s	481	VAL
1	s	486	LEU
1	s	516	LEU
1	s	526	VAL
1	s	531	THR
1	s	533	ASP
1	s	547	PHE
1	s	549	VAL
1	s	578	ARG
1	s	583	VAL
1	s	585	SER
1	s	638	VAL
1	s	642	SER
1	s	650	THR
1	s	665	THR
1	s	713	SER
1	s	719	THR
1	s	751	LEU
1	s	759	LEU
1	s	762	VAL
1	s	777	LEU
1	s	796	LYS
1	s	821	LEU
1	t	18	VAL
1	t	19	LEU
1	t	26	SER
1	t	34	THR

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Mol	Chain	Res	Type
1	t	36	ILE
1	t	81	VAL
1	t	104	LEU
1	t	130	GLU
1	t	133	ASN
1	t	162	ILE
1	t	192	THR
1	t	198	VAL
1	t	208	VAL
1	t	238	VAL
1	t	242	THR
1	t	253	VAL
1	t	260	VAL
1	t	286	ASP
1	t	340	LEU
1	t	366	VAL
1	t	375	GLU
1	t	404	SER
1	t	411	ASP
1	t	459	SER
1	t	514	LEU
1	t	517	LEU
1	t	522	PHE
1	t	543	TYR
1	t	547	PHE
1	t	549	VAL
1	t	550	SER
1	t	568	VAL
1	t	580	ARG
1	t	585	SER
1	t	599	ILE
1	t	600	ARG
1	t	603	VAL
1	t	638	VAL
1	t	646	VAL
1	t	713	SER
1	t	747	LYS
1	t	759	LEU
1	t	770	LEU
1	t	777	LEU
1	t	779	LEU
1	t	796	LYS

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Mol	Chain	Res	Type
1	t	828	LYS
1	t	837	THR
1	u	22	ASN
1	u	26	SER
1	u	30	VAL
1	u	34	THR
1	u	36	ILE
1	u	43	ILE
1	u	45	PHE
1	u	60	VAL
1	u	61	VAL
1	u	65	VAL
1	u	84	ARG
1	u	90	ILE
1	u	104	LEU
1	u	105	MET
1	u	114	VAL
1	u	128	ASP
1	u	132	SER
1	u	163	ILE
1	u	167	ILE
1	u	198	VAL
1	u	208	VAL
1	u	238	VAL
1	u	243	ARG
1	u	256	THR
1	u	260	VAL
1	u	275	THR
1	u	286	ASP
1	u	349	VAL
1	u	359	ILE
1	u	366	VAL
1	u	404	SER
1	u	474	ARG
1	u	486	LEU
1	u	522	PHE
1	u	531	THR
1	u	549	VAL
1	u	568	VAL
1	u	583	VAL
1	u	585	SER
1	u	587	THR

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Mol	Chain	Res	Type
1	u	595	SER
1	u	599	ILE
1	u	638	VAL
1	u	646	VAL
1	u	662	ILE
1	u	663	GLU
1	u	665	THR
1	u	683	GLU
1	u	713	SER
1	u	754	GLU
1	u	762	VAL
1	u	797	GLN
1	u	808	LYS
1	u	821	LEU
1	v	7	ILE
1	v	9	ARG
1	v	10	ILE
1	v	18	VAL
1	v	19	LEU
1	v	26	SER
1	v	34	THR
1	v	36	ILE
1	v	52	THR
1	v	59	CYS
1	v	60	VAL
1	v	65	VAL
1	v	81	VAL
1	v	94	GLN
1	v	95	ASP
1	v	104	LEU
1	v	106	GLU
1	v	116	LEU
1	v	130	GLU
1	v	133	ASN
1	v	162	ILE
1	v	192	THR
1	v	198	VAL
1	v	208	VAL
1	v	238	VAL
1	v	242	THR
1	v	270	VAL
1	v	286	ASP

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Mol	Chain	Res	Type
1	v	340	LEU
1	v	363	LEU
1	v	388	ILE
1	v	409	THR
1	v	474	ARG
1	v	486	LEU
1	v	514	LEU
1	v	516	LEU
1	v	517	LEU
1	v	526	VAL
1	v	531	THR
1	v	533	ASP
1	v	547	PHE
1	v	561	LEU
1	v	573	LYS
1	v	583	VAL
1	v	585	SER
1	v	587	THR
1	v	600	ARG
1	v	603	VAL
1	v	638	VAL
1	v	650	THR
1	v	719	THR
1	v	747	LYS
1	v	759	LEU
1	v	762	VAL
1	v	768	LEU
1	v	777	LEU
1	v	779	LEU
1	v	821	LEU
1	w	7	ILE
1	w	26	SER
1	w	30	VAL
1	w	36	ILE
1	w	45	PHE
1	w	53	VAL
1	w	60	VAL
1	w	61	VAL
1	w	65	VAL
1	w	81	VAL
1	w	90	ILE
1	w	104	LEU

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Mol	Chain	Res	Type
1	w	105	MET
1	w	128	ASP
1	w	132	SER
1	w	162	ILE
1	w	163	ILE
1	w	167	ILE
1	w	198	VAL
1	w	224	LYS
1	w	238	VAL
1	w	270	VAL
1	w	275	THR
1	w	349	VAL
1	w	366	VAL
1	w	411	ASP
1	w	481	VAL
1	w	514	LEU
1	w	522	PHE
1	w	549	VAL
1	w	568	VAL
1	w	573	LYS
1	w	583	VAL
1	w	585	SER
1	w	587	THR
1	w	593	LYS
1	w	599	ILE
1	w	600	ARG
1	w	638	VAL
1	w	663	GLU
1	w	683	GLU
1	w	759	LEU
1	w	762	VAL
1	w	779	LEU
1	w	787	LEU
1	w	808	LYS
1	w	821	LEU
1	x	6	SER
1	x	18	VAL
1	x	19	LEU
1	x	26	SER
1	x	34	THR
1	x	36	ILE
1	x	81	VAL

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Mol	Chain	Res	Type
1	x	84	ARG
1	x	104	LEU
1	x	116	LEU
1	x	133	ASN
1	x	154	GLN
1	x	155	LYS
1	x	162	ILE
1	x	163	ILE
1	x	167	ILE
1	x	183	CYS
1	x	198	VAL
1	x	199	ARG
1	x	208	VAL
1	x	238	VAL
1	x	243	ARG
1	x	270	VAL
1	x	286	ASP
1	x	325	VAL
1	x	340	LEU
1	x	366	VAL
1	x	375	GLU
1	x	411	ASP
1	x	459	SER
1	x	522	PHE
1	x	529	ILE
1	x	531	THR
1	x	547	PHE
1	x	549	VAL
1	x	587	THR
1	x	599	ILE
1	x	638	VAL
1	x	660	LEU
1	x	759	LEU
1	x	762	VAL
1	x	768	LEU
1	x	770	LEU
1	x	777	LEU
1	x	779	LEU
1	x	796	LYS
1	x	819	VAL
1	x	828	LYS
1	x	837	THR

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Mol	Chain	Res	Type
1	y	6	SER
1	y	9	ARG
1	y	10	ILE
1	y	34	THR
1	y	36	ILE
1	y	44	LEU
1	y	51	VAL
1	y	59	CYS
1	y	60	VAL
1	y	65	VAL
1	y	81	VAL
1	y	94	GLN
1	y	95	ASP
1	y	104	LEU
1	y	106	GLU
1	y	130	GLU
1	y	133	ASN
1	y	160	LEU
1	y	192	THR
1	y	198	VAL
1	y	208	VAL
1	y	214	ASP
1	y	238	VAL
1	y	256	THR
1	y	260	VAL
1	y	286	ASP
1	y	325	VAL
1	y	340	LEU
1	y	363	LEU
1	y	366	VAL
1	y	375	GLU
1	y	388	ILE
1	y	394	LYS
1	y	409	THR
1	y	474	ARG
1	y	481	VAL
1	y	486	LEU
1	y	516	LEU
1	y	526	VAL
1	y	531	THR
1	y	533	ASP
1	y	547	PHE

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Mol	Chain	Res	Type
1	y	549	VAL
1	y	578	ARG
1	y	583	VAL
1	y	585	SER
1	y	638	VAL
1	y	642	SER
1	y	650	THR
1	y	665	THR
1	y	713	SER
1	y	719	THR
1	y	751	LEU
1	y	759	LEU
1	y	762	VAL
1	y	777	LEU
1	y	796	LYS
1	y	821	LEU
1	z	18	VAL
1	z	19	LEU
1	z	26	SER
1	z	34	THR
1	z	36	ILE
1	z	81	VAL
1	z	104	LEU
1	z	130	GLU
1	z	133	ASN
1	z	162	ILE
1	z	192	THR
1	z	198	VAL
1	z	208	VAL
1	z	238	VAL
1	z	242	THR
1	z	253	VAL
1	z	260	VAL
1	z	286	ASP
1	z	340	LEU
1	z	366	VAL
1	z	375	GLU
1	z	404	SER
1	z	411	ASP
1	z	459	SER
1	z	514	LEU
1	z	517	LEU

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Mol	Chain	Res	Type
1	z	522	PHE
1	z	543	TYR
1	z	547	PHE
1	z	549	VAL
1	z	550	SER
1	z	568	VAL
1	z	580	ARG
1	z	585	SER
1	z	599	ILE
1	z	600	ARG
1	z	603	VAL
1	z	638	VAL
1	z	646	VAL
1	z	713	SER
1	z	747	LYS
1	z	759	LEU
1	z	770	LEU
1	z	777	LEU
1	z	779	LEU
1	z	796	LYS
1	z	819	VAL
1	z	828	LYS
1	z	837	THR
1	0	22	ASN
1	0	26	SER
1	0	30	VAL
1	0	34	THR
1	0	36	ILE
1	0	43	ILE
1	0	45	PHE
1	0	60	VAL
1	0	61	VAL
1	0	65	VAL
1	0	84	ARG
1	0	90	ILE
1	0	104	LEU
1	0	105	MET
1	0	114	VAL
1	0	128	ASP
1	0	132	SER
1	0	163	ILE
1	0	167	ILE

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Mol	Chain	Res	Type
1	0	198	VAL
1	0	208	VAL
1	0	238	VAL
1	0	243	ARG
1	0	256	THR
1	0	260	VAL
1	0	275	THR
1	0	286	ASP
1	0	349	VAL
1	0	366	VAL
1	0	404	SER
1	0	474	ARG
1	0	486	LEU
1	0	522	PHE
1	0	531	THR
1	0	549	VAL
1	0	568	VAL
1	0	583	VAL
1	0	585	SER
1	0	587	THR
1	0	595	SER
1	0	599	ILE
1	0	638	VAL
1	0	646	VAL
1	0	662	ILE
1	0	663	GLU
1	0	665	THR
1	0	683	GLU
1	0	713	SER
1	0	754	GLU
1	0	762	VAL
1	0	797	GLN
1	0	808	LYS
1	0	821	LEU
1	1	7	ILE
1	1	9	ARG
1	1	10	ILE
1	1	18	VAL
1	1	19	LEU
1	1	26	SER
1	1	34	THR
1	1	36	ILE

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Mol	Chain	Res	Type
1	1	43	ILE
1	1	52	THR
1	1	59	CYS
1	1	60	VAL
1	1	65	VAL
1	1	81	VAL
1	1	94	GLN
1	1	95	ASP
1	1	104	LEU
1	1	106	GLU
1	1	116	LEU
1	1	130	GLU
1	1	133	ASN
1	1	162	ILE
1	1	192	THR
1	1	198	VAL
1	1	208	VAL
1	1	238	VAL
1	1	242	THR
1	1	270	VAL
1	1	286	ASP
1	1	340	LEU
1	1	363	LEU
1	1	388	ILE
1	1	409	THR
1	1	474	ARG
1	1	486	LEU
1	1	514	LEU
1	1	516	LEU
1	1	517	LEU
1	1	526	VAL
1	1	531	THR
1	1	533	ASP
1	1	547	PHE
1	1	561	LEU
1	1	573	LYS
1	1	583	VAL
1	1	585	SER
1	1	587	THR
1	1	600	ARG
1	1	603	VAL
1	1	638	VAL

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Mol	Chain	Res	Type
1	1	650	THR
1	1	719	THR
1	1	747	LYS
1	1	759	LEU
1	1	762	VAL
1	1	768	LEU
1	1	777	LEU
1	1	779	LEU
1	1	821	LEU
1	2	7	ILE
1	2	26	SER
1	2	30	VAL
1	2	36	ILE
1	2	45	PHE
1	2	53	VAL
1	2	60	VAL
1	2	61	VAL
1	2	65	VAL
1	2	81	VAL
1	2	90	ILE
1	2	104	LEU
1	2	105	MET
1	2	128	ASP
1	2	132	SER
1	2	162	ILE
1	2	163	ILE
1	2	167	ILE
1	2	198	VAL
1	2	224	LYS
1	2	238	VAL
1	2	270	VAL
1	2	275	THR
1	2	349	VAL
1	2	366	VAL
1	2	411	ASP
1	2	481	VAL
1	2	514	LEU
1	2	522	PHE
1	2	549	VAL
1	2	568	VAL
1	2	573	LYS
1	2	583	VAL

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Mol	Chain	Res	Type
1	2	585	SER
1	2	587	THR
1	2	593	LYS
1	2	599	ILE
1	2	600	ARG
1	2	638	VAL
1	2	663	GLU
1	2	683	GLU
1	2	759	LEU
1	2	762	VAL
1	2	779	LEU
1	2	787	LEU
1	2	808	LYS
1	2	821	LEU
1	3	6	SER
1	3	18	VAL
1	3	19	LEU
1	3	26	SER
1	3	34	THR
1	3	36	ILE
1	3	81	VAL
1	3	84	ARG
1	3	104	LEU
1	3	116	LEU
1	3	133	ASN
1	3	154	GLN
1	3	155	LYS
1	3	162	ILE
1	3	163	ILE
1	3	167	ILE
1	3	183	CYS
1	3	198	VAL
1	3	199	ARG
1	3	208	VAL
1	3	238	VAL
1	3	243	ARG
1	3	270	VAL
1	3	286	ASP
1	3	325	VAL
1	3	340	LEU
1	3	366	VAL
1	3	375	GLU

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Mol	Chain	Res	Type
1	3	411	ASP
1	3	459	SER
1	3	522	PHE
1	3	529	ILE
1	3	531	THR
1	3	547	PHE
1	3	549	VAL
1	3	587	THR
1	3	599	ILE
1	3	638	VAL
1	3	660	LEU
1	3	759	LEU
1	3	762	VAL
1	3	768	LEU
1	3	770	LEU
1	3	777	LEU
1	3	779	LEU
1	3	796	LYS
1	3	819	VAL
1	3	828	LYS
1	3	837	THR
1	4	6	SER
1	4	9	ARG
1	4	10	ILE
1	4	34	THR
1	4	36	ILE
1	4	44	LEU
1	4	51	VAL
1	4	59	CYS
1	4	60	VAL
1	4	65	VAL
1	4	81	VAL
1	4	94	GLN
1	4	95	ASP
1	4	104	LEU
1	4	106	GLU
1	4	130	GLU
1	4	133	ASN
1	4	160	LEU
1	4	192	THR
1	4	198	VAL
1	4	208	VAL

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Mol	Chain	Res	Type
1	4	214	ASP
1	4	238	VAL
1	4	256	THR
1	4	260	VAL
1	4	286	ASP
1	4	325	VAL
1	4	340	LEU
1	4	363	LEU
1	4	366	VAL
1	4	375	GLU
1	4	388	ILE
1	4	394	LYS
1	4	409	THR
1	4	474	ARG
1	4	481	VAL
1	4	486	LEU
1	4	516	LEU
1	4	526	VAL
1	4	531	THR
1	4	533	ASP
1	4	547	PHE
1	4	549	VAL
1	4	578	ARG
1	4	583	VAL
1	4	585	SER
1	4	638	VAL
1	4	642	SER
1	4	650	THR
1	4	665	THR
1	4	713	SER
1	4	719	THR
1	4	751	LEU
1	4	759	LEU
1	4	762	VAL
1	4	777	LEU
1	4	796	LYS
1	4	821	LEU
1	5	18	VAL
1	5	19	LEU
1	5	26	SER
1	5	34	THR
1	5	36	ILE

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Mol	Chain	Res	Type
1	5	81	VAL
1	5	104	LEU
1	5	130	GLU
1	5	133	ASN
1	5	162	ILE
1	5	192	THR
1	5	198	VAL
1	5	208	VAL
1	5	238	VAL
1	5	242	THR
1	5	253	VAL
1	5	260	VAL
1	5	286	ASP
1	5	340	LEU
1	5	366	VAL
1	5	375	GLU
1	5	404	SER
1	5	411	ASP
1	5	459	SER
1	5	514	LEU
1	5	517	LEU
1	5	522	PHE
1	5	543	TYR
1	5	547	PHE
1	5	549	VAL
1	5	550	SER
1	5	568	VAL
1	5	580	ARG
1	5	585	SER
1	5	599	ILE
1	5	600	ARG
1	5	603	VAL
1	5	638	VAL
1	5	646	VAL
1	5	713	SER
1	5	747	LYS
1	5	759	LEU
1	5	770	LEU
1	5	777	LEU
1	5	779	LEU
1	5	796	LYS
1	5	819	VAL

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Mol	Chain	Res	Type
1	5	828	LYS
1	6	22	ASN
1	6	26	SER
1	6	30	VAL
1	6	34	THR
1	6	36	ILE
1	6	43	ILE
1	6	45	PHE
1	6	60	VAL
1	6	61	VAL
1	6	65	VAL
1	6	84	ARG
1	6	90	ILE
1	6	104	LEU
1	6	105	MET
1	6	114	VAL
1	6	128	ASP
1	6	132	SER
1	6	163	ILE
1	6	167	ILE
1	6	198	VAL
1	6	208	VAL
1	6	238	VAL
1	6	243	ARG
1	6	256	THR
1	6	260	VAL
1	6	275	THR
1	6	286	ASP
1	6	349	VAL
1	6	366	VAL
1	6	404	SER
1	6	474	ARG
1	6	486	LEU
1	6	522	PHE
1	6	531	THR
1	6	549	VAL
1	6	568	VAL
1	6	583	VAL
1	6	585	SER
1	6	587	THR
1	6	595	SER
1	6	599	ILE

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Mol	Chain	Res	Type
1	6	638	VAL
1	6	646	VAL
1	6	662	ILE
1	6	663	GLU
1	6	665	THR
1	6	683	GLU
1	6	713	SER
1	6	754	GLU
1	6	762	VAL
1	6	797	GLN
1	6	808	LYS
1	6	821	LEU
1	7	7	ILE
1	7	9	ARG
1	7	10	ILE
1	7	18	VAL
1	7	19	LEU
1	7	26	SER
1	7	34	THR
1	7	36	ILE
1	7	52	THR
1	7	59	CYS
1	7	60	VAL
1	7	65	VAL
1	7	81	VAL
1	7	94	GLN
1	7	104	LEU
1	7	106	GLU
1	7	116	LEU
1	7	130	GLU
1	7	133	ASN
1	7	162	ILE
1	7	192	THR
1	7	198	VAL
1	7	208	VAL
1	7	238	VAL
1	7	242	THR
1	7	270	VAL
1	7	286	ASP
1	7	340	LEU
1	7	363	LEU
1	7	388	ILE

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Mol	Chain	Res	Type
1	7	409	THR
1	7	474	ARG
1	7	486	LEU
1	7	514	LEU
1	7	516	LEU
1	7	517	LEU
1	7	526	VAL
1	7	531	THR
1	7	533	ASP
1	7	547	PHE
1	7	561	LEU
1	7	573	LYS
1	7	583	VAL
1	7	585	SER
1	7	587	THR
1	7	600	ARG
1	7	603	VAL
1	7	638	VAL
1	7	650	THR
1	7	719	THR
1	7	747	LYS
1	7	759	LEU
1	7	762	VAL
1	7	768	LEU
1	7	777	LEU
1	7	779	LEU
1	7	821	LEU
1	8	7	ILE
1	8	26	SER
1	8	30	VAL
1	8	36	ILE
1	8	45	PHE
1	8	53	VAL
1	8	60	VAL
1	8	61	VAL
1	8	65	VAL
1	8	81	VAL
1	8	90	ILE
1	8	104	LEU
1	8	105	MET
1	8	128	ASP
1	8	132	SER

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Mol	Chain	Res	Type
1	8	162	ILE
1	8	163	ILE
1	8	167	ILE
1	8	198	VAL
1	8	224	LYS
1	8	238	VAL
1	8	270	VAL
1	8	275	THR
1	8	349	VAL
1	8	366	VAL
1	8	411	ASP
1	8	481	VAL
1	8	514	LEU
1	8	522	PHE
1	8	549	VAL
1	8	568	VAL
1	8	573	LYS
1	8	583	VAL
1	8	585	SER
1	8	587	THR
1	8	593	LYS
1	8	599	ILE
1	8	600	ARG
1	8	638	VAL
1	8	663	GLU
1	8	683	GLU
1	8	759	LEU
1	8	762	VAL
1	8	779	LEU
1	8	787	LEU
1	8	808	LYS
1	8	821	LEU
1	9	6	SER
1	9	18	VAL
1	9	19	LEU
1	9	26	SER
1	9	34	THR
1	9	36	ILE
1	9	81	VAL
1	9	84	ARG
1	9	104	LEU
1	9	116	LEU

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Mol	Chain	Res	Type
1	9	133	ASN
1	9	154	GLN
1	9	155	LYS
1	9	162	ILE
1	9	163	ILE
1	9	167	ILE
1	9	183	CYS
1	9	198	VAL
1	9	199	ARG
1	9	208	VAL
1	9	238	VAL
1	9	243	ARG
1	9	270	VAL
1	9	286	ASP
1	9	325	VAL
1	9	340	LEU
1	9	366	VAL
1	9	375	GLU
1	9	411	ASP
1	9	459	SER
1	9	522	PHE
1	9	529	ILE
1	9	531	THR
1	9	547	PHE
1	9	549	VAL
1	9	587	THR
1	9	599	ILE
1	9	638	VAL
1	9	660	LEU
1	9	759	LEU
1	9	762	VAL
1	9	768	LEU
1	9	770	LEU
1	9	777	LEU
1	9	779	LEU
1	9	796	LYS
1	9	828	LYS
1	9	837	THR
1	AA	6	SER
1	AA	9	ARG
1	AA	10	ILE
1	AA	34	THR

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Mol	Chain	Res	Type
1	AA	36	ILE
1	AA	44	LEU
1	AA	51	VAL
1	AA	59	CYS
1	AA	60	VAL
1	AA	65	VAL
1	AA	81	VAL
1	AA	94	GLN
1	AA	95	ASP
1	AA	104	LEU
1	AA	106	GLU
1	AA	130	GLU
1	AA	133	ASN
1	AA	160	LEU
1	AA	192	THR
1	AA	198	VAL
1	AA	208	VAL
1	AA	214	ASP
1	AA	238	VAL
1	AA	256	THR
1	AA	260	VAL
1	AA	286	ASP
1	AA	325	VAL
1	AA	340	LEU
1	AA	363	LEU
1	AA	366	VAL
1	AA	375	GLU
1	AA	388	ILE
1	AA	394	LYS
1	AA	409	THR
1	AA	474	ARG
1	AA	481	VAL
1	AA	486	LEU
1	AA	516	LEU
1	AA	526	VAL
1	AA	531	THR
1	AA	533	ASP
1	AA	547	PHE
1	AA	549	VAL
1	AA	578	ARG
1	AA	583	VAL
1	AA	585	SER

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Mol	Chain	Res	Type
1	AA	638	VAL
1	AA	642	SER
1	AA	650	THR
1	AA	665	THR
1	AA	713	SER
1	AA	719	THR
1	AA	751	LEU
1	AA	759	LEU
1	AA	762	VAL
1	AA	777	LEU
1	AA	796	LYS
1	AA	821	LEU
1	AB	18	VAL
1	AB	19	LEU
1	AB	26	SER
1	AB	34	THR
1	AB	36	ILE
1	AB	81	VAL
1	AB	104	LEU
1	AB	130	GLU
1	AB	133	ASN
1	AB	162	ILE
1	AB	192	THR
1	AB	198	VAL
1	AB	208	VAL
1	AB	238	VAL
1	AB	242	THR
1	AB	253	VAL
1	AB	260	VAL
1	AB	286	ASP
1	AB	340	LEU
1	AB	366	VAL
1	AB	375	GLU
1	AB	404	SER
1	AB	411	ASP
1	AB	459	SER
1	AB	514	LEU
1	AB	517	LEU
1	AB	522	PHE
1	AB	543	TYR
1	AB	547	PHE
1	AB	549	VAL

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Mol	Chain	Res	Type
1	AB	550	SER
1	AB	568	VAL
1	AB	580	ARG
1	AB	585	SER
1	AB	599	ILE
1	AB	600	ARG
1	AB	603	VAL
1	AB	638	VAL
1	AB	646	VAL
1	AB	713	SER
1	AB	747	LYS
1	AB	759	LEU
1	AB	770	LEU
1	AB	777	LEU
1	AB	779	LEU
1	AB	796	LYS
1	AB	819	VAL
1	AB	828	LYS
1	AB	837	THR
1	AC	22	ASN
1	AC	26	SER
1	AC	30	VAL
1	AC	34	THR
1	AC	36	ILE
1	AC	43	ILE
1	AC	45	PHE
1	AC	60	VAL
1	AC	61	VAL
1	AC	65	VAL
1	AC	84	ARG
1	AC	90	ILE
1	AC	104	LEU
1	AC	105	MET
1	AC	114	VAL
1	AC	128	ASP
1	AC	132	SER
1	AC	163	ILE
1	AC	167	ILE
1	AC	198	VAL
1	AC	208	VAL
1	AC	238	VAL
1	AC	243	ARG

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Mol	Chain	Res	Type
1	AC	256	THR
1	AC	260	VAL
1	AC	275	THR
1	AC	286	ASP
1	AC	349	VAL
1	AC	366	VAL
1	AC	404	SER
1	AC	474	ARG
1	AC	486	LEU
1	AC	522	PHE
1	AC	531	THR
1	AC	549	VAL
1	AC	568	VAL
1	AC	583	VAL
1	AC	585	SER
1	AC	587	THR
1	AC	595	SER
1	AC	599	ILE
1	AC	638	VAL
1	AC	646	VAL
1	AC	662	ILE
1	AC	663	GLU
1	AC	665	THR
1	AC	683	GLU
1	AC	713	SER
1	AC	754	GLU
1	AC	762	VAL
1	AC	797	GLN
1	AC	808	LYS
1	AC	821	LEU
1	AD	7	ILE
1	AD	9	ARG
1	AD	10	ILE
1	AD	18	VAL
1	AD	19	LEU
1	AD	26	SER
1	AD	34	THR
1	AD	36	ILE
1	AD	43	ILE
1	AD	52	THR
1	AD	59	CYS
1	AD	60	VAL

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Mol	Chain	Res	Type
1	AD	65	VAL
1	AD	81	VAL
1	AD	94	GLN
1	AD	95	ASP
1	AD	104	LEU
1	AD	106	GLU
1	AD	116	LEU
1	AD	130	GLU
1	AD	133	ASN
1	AD	162	ILE
1	AD	192	THR
1	AD	198	VAL
1	AD	208	VAL
1	AD	238	VAL
1	AD	242	THR
1	AD	270	VAL
1	AD	286	ASP
1	AD	340	LEU
1	AD	363	LEU
1	AD	388	ILE
1	AD	409	THR
1	AD	474	ARG
1	AD	486	LEU
1	AD	514	LEU
1	AD	516	LEU
1	AD	517	LEU
1	AD	526	VAL
1	AD	531	THR
1	AD	533	ASP
1	AD	547	PHE
1	AD	561	LEU
1	AD	573	LYS
1	AD	583	VAL
1	AD	585	SER
1	AD	587	THR
1	AD	600	ARG
1	AD	603	VAL
1	AD	638	VAL
1	AD	650	THR
1	AD	719	THR
1	AD	747	LYS
1	AD	759	LEU

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Mol	Chain	Res	Type
1	AD	762	VAL
1	AD	768	LEU
1	AD	777	LEU
1	AD	779	LEU
1	AD	821	LEU
1	AE	7	ILE
1	AE	26	SER
1	AE	30	VAL
1	AE	36	ILE
1	AE	45	PHE
1	AE	53	VAL
1	AE	60	VAL
1	AE	61	VAL
1	AE	65	VAL
1	AE	81	VAL
1	AE	90	ILE
1	AE	104	LEU
1	AE	105	MET
1	AE	128	ASP
1	AE	132	SER
1	AE	162	ILE
1	AE	163	ILE
1	AE	167	ILE
1	AE	198	VAL
1	AE	224	LYS
1	AE	238	VAL
1	AE	270	VAL
1	AE	275	THR
1	AE	349	VAL
1	AE	366	VAL
1	AE	411	ASP
1	AE	481	VAL
1	AE	514	LEU
1	AE	522	PHE
1	AE	549	VAL
1	AE	568	VAL
1	AE	573	LYS
1	AE	583	VAL
1	AE	585	SER
1	AE	587	THR
1	AE	593	LYS
1	AE	599	ILE

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Mol	Chain	Res	Type
1	AE	600	ARG
1	AE	638	VAL
1	AE	663	GLU
1	AE	683	GLU
1	AE	759	LEU
1	AE	762	VAL
1	AE	779	LEU
1	AE	787	LEU
1	AE	808	LYS
1	AE	821	LEU
1	AF	6	SER
1	AF	18	VAL
1	AF	19	LEU
1	AF	26	SER
1	AF	34	THR
1	AF	36	ILE
1	AF	81	VAL
1	AF	84	ARG
1	AF	104	LEU
1	AF	116	LEU
1	AF	133	ASN
1	AF	154	GLN
1	AF	155	LYS
1	AF	162	ILE
1	AF	163	ILE
1	AF	167	ILE
1	AF	183	CYS
1	AF	198	VAL
1	AF	199	ARG
1	AF	208	VAL
1	AF	238	VAL
1	AF	243	ARG
1	AF	270	VAL
1	AF	286	ASP
1	AF	325	VAL
1	AF	340	LEU
1	AF	366	VAL
1	AF	375	GLU
1	AF	411	ASP
1	AF	459	SER
1	AF	522	PHE
1	AF	529	ILE

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Mol	Chain	Res	Type
1	AF	531	THR
1	AF	547	PHE
1	AF	549	VAL
1	AF	587	THR
1	AF	599	ILE
1	AF	638	VAL
1	AF	660	LEU
1	AF	759	LEU
1	AF	762	VAL
1	AF	768	LEU
1	AF	770	LEU
1	AF	777	LEU
1	AF	779	LEU
1	AF	796	LYS
1	AF	819	VAL
1	AF	828	LYS
1	AF	837	THR
1	AG	6	SER
1	AG	9	ARG
1	AG	10	ILE
1	AG	34	THR
1	AG	36	ILE
1	AG	44	LEU
1	AG	51	VAL
1	AG	59	CYS
1	AG	60	VAL
1	AG	65	VAL
1	AG	81	VAL
1	AG	94	GLN
1	AG	95	ASP
1	AG	104	LEU
1	AG	106	GLU
1	AG	130	GLU
1	AG	133	ASN
1	AG	160	LEU
1	AG	192	THR
1	AG	198	VAL
1	AG	208	VAL
1	AG	214	ASP
1	AG	238	VAL
1	AG	256	THR
1	AG	260	VAL

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Mol	Chain	Res	Type
1	AG	286	ASP
1	AG	325	VAL
1	AG	340	LEU
1	AG	363	LEU
1	AG	366	VAL
1	AG	375	GLU
1	AG	388	ILE
1	AG	394	LYS
1	AG	409	THR
1	AG	474	ARG
1	AG	481	VAL
1	AG	486	LEU
1	AG	516	LEU
1	AG	526	VAL
1	AG	531	THR
1	AG	533	ASP
1	AG	547	PHE
1	AG	549	VAL
1	AG	578	ARG
1	AG	583	VAL
1	AG	585	SER
1	AG	638	VAL
1	AG	642	SER
1	AG	650	THR
1	AG	665	THR
1	AG	713	SER
1	AG	719	THR
1	AG	751	LEU
1	AG	759	LEU
1	AG	762	VAL
1	AG	777	LEU
1	AG	796	LYS
1	AG	821	LEU
1	AH	18	VAL
1	AH	19	LEU
1	AH	26	SER
1	AH	34	THR
1	AH	36	ILE
1	AH	81	VAL
1	AH	104	LEU
1	AH	130	GLU
1	AH	133	ASN

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Mol	Chain	Res	Type
1	AH	162	ILE
1	AH	192	THR
1	AH	198	VAL
1	AH	208	VAL
1	AH	238	VAL
1	AH	242	THR
1	AH	253	VAL
1	AH	260	VAL
1	AH	286	ASP
1	AH	340	LEU
1	AH	366	VAL
1	AH	375	GLU
1	AH	404	SER
1	AH	411	ASP
1	AH	459	SER
1	AH	514	LEU
1	AH	517	LEU
1	AH	522	PHE
1	AH	543	TYR
1	AH	547	PHE
1	AH	549	VAL
1	AH	550	SER
1	AH	568	VAL
1	AH	580	ARG
1	AH	585	SER
1	AH	599	ILE
1	AH	600	ARG
1	AH	603	VAL
1	AH	638	VAL
1	AH	646	VAL
1	AH	713	SER
1	AH	747	LYS
1	AH	759	LEU
1	AH	770	LEU
1	AH	777	LEU
1	AH	779	LEU
1	AH	796	LYS
1	AH	828	LYS
1	AH	837	THR
1	AI	22	ASN
1	AI	26	SER
1	AI	30	VAL

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Mol	Chain	Res	Type
1	AI	34	THR
1	AI	36	ILE
1	AI	43	ILE
1	AI	45	PHE
1	AI	60	VAL
1	AI	61	VAL
1	AI	65	VAL
1	AI	84	ARG
1	AI	90	ILE
1	AI	104	LEU
1	AI	105	MET
1	AI	114	VAL
1	AI	128	ASP
1	AI	132	SER
1	AI	163	ILE
1	AI	167	ILE
1	AI	198	VAL
1	AI	208	VAL
1	AI	238	VAL
1	AI	243	ARG
1	AI	256	THR
1	AI	260	VAL
1	AI	275	THR
1	AI	286	ASP
1	AI	349	VAL
1	AI	366	VAL
1	AI	404	SER
1	AI	474	ARG
1	AI	486	LEU
1	AI	522	PHE
1	AI	531	THR
1	AI	549	VAL
1	AI	568	VAL
1	AI	583	VAL
1	AI	585	SER
1	AI	587	THR
1	AI	595	SER
1	AI	599	ILE
1	AI	638	VAL
1	AI	646	VAL
1	AI	662	ILE
1	AI	663	GLU

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Mol	Chain	Res	Type
1	AI	665	THR
1	AI	683	GLU
1	AI	713	SER
1	AI	754	GLU
1	AI	762	VAL
1	AI	797	GLN
1	AI	808	LYS
1	AI	821	LEU
1	AJ	7	ILE
1	AJ	9	ARG
1	AJ	10	ILE
1	AJ	18	VAL
1	AJ	19	LEU
1	AJ	26	SER
1	AJ	34	THR
1	AJ	36	ILE
1	AJ	43	ILE
1	AJ	52	THR
1	AJ	59	CYS
1	AJ	60	VAL
1	AJ	65	VAL
1	AJ	81	VAL
1	AJ	94	GLN
1	AJ	95	ASP
1	AJ	104	LEU
1	AJ	106	GLU
1	AJ	116	LEU
1	AJ	130	GLU
1	AJ	133	ASN
1	AJ	162	ILE
1	AJ	192	THR
1	AJ	198	VAL
1	AJ	208	VAL
1	AJ	238	VAL
1	AJ	242	THR
1	AJ	270	VAL
1	AJ	286	ASP
1	AJ	340	LEU
1	AJ	363	LEU
1	AJ	388	ILE
1	AJ	409	THR
1	AJ	474	ARG

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Mol	Chain	Res	Type
1	AJ	486	LEU
1	AJ	514	LEU
1	AJ	516	LEU
1	AJ	517	LEU
1	AJ	526	VAL
1	AJ	531	THR
1	AJ	533	ASP
1	AJ	547	PHE
1	AJ	561	LEU
1	AJ	573	LYS
1	AJ	583	VAL
1	AJ	585	SER
1	AJ	587	THR
1	AJ	600	ARG
1	AJ	603	VAL
1	AJ	638	VAL
1	AJ	650	THR
1	AJ	719	THR
1	AJ	747	LYS
1	AJ	759	LEU
1	AJ	762	VAL
1	AJ	768	LEU
1	AJ	777	LEU
1	AJ	779	LEU
1	AJ	821	LEU
1	AK	7	ILE
1	AK	26	SER
1	AK	30	VAL
1	AK	36	ILE
1	AK	45	PHE
1	AK	53	VAL
1	AK	60	VAL
1	AK	61	VAL
1	AK	65	VAL
1	AK	81	VAL
1	AK	90	ILE
1	AK	104	LEU
1	AK	105	MET
1	AK	128	ASP
1	AK	132	SER
1	AK	162	ILE
1	AK	163	ILE

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Mol	Chain	Res	Type
1	AK	167	ILE
1	AK	198	VAL
1	AK	224	LYS
1	AK	238	VAL
1	AK	270	VAL
1	AK	275	THR
1	AK	349	VAL
1	AK	366	VAL
1	AK	411	ASP
1	AK	481	VAL
1	AK	514	LEU
1	AK	522	PHE
1	AK	549	VAL
1	AK	568	VAL
1	AK	573	LYS
1	AK	583	VAL
1	AK	585	SER
1	AK	587	THR
1	AK	593	LYS
1	AK	599	ILE
1	AK	600	ARG
1	AK	638	VAL
1	AK	663	GLU
1	AK	683	GLU
1	AK	759	LEU
1	AK	762	VAL
1	AK	779	LEU
1	AK	787	LEU
1	AK	808	LYS
1	AK	821	LEU
1	AL	6	SER
1	AL	18	VAL
1	AL	19	LEU
1	AL	26	SER
1	AL	34	THR
1	AL	36	ILE
1	AL	81	VAL
1	AL	84	ARG
1	AL	104	LEU
1	AL	116	LEU
1	AL	133	ASN
1	AL	154	GLN

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Mol	Chain	Res	Type
1	AL	155	LYS
1	AL	162	ILE
1	AL	163	ILE
1	AL	167	ILE
1	AL	183	CYS
1	AL	198	VAL
1	AL	199	ARG
1	AL	208	VAL
1	AL	238	VAL
1	AL	243	ARG
1	AL	270	VAL
1	AL	286	ASP
1	AL	325	VAL
1	AL	340	LEU
1	AL	366	VAL
1	AL	375	GLU
1	AL	411	ASP
1	AL	459	SER
1	AL	517	LEU
1	AL	522	PHE
1	AL	529	ILE
1	AL	531	THR
1	AL	547	PHE
1	AL	549	VAL
1	AL	587	THR
1	AL	599	ILE
1	AL	638	VAL
1	AL	660	LEU
1	AL	759	LEU
1	AL	762	VAL
1	AL	768	LEU
1	AL	770	LEU
1	AL	777	LEU
1	AL	779	LEU
1	AL	796	LYS
1	AL	819	VAL
1	AL	828	LYS
1	AL	837	THR
1	AM	6	SER
1	AM	9	ARG
1	AM	10	ILE
1	AM	34	THR

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Mol	Chain	Res	Type
1	AM	36	ILE
1	AM	44	LEU
1	AM	51	VAL
1	AM	59	CYS
1	AM	60	VAL
1	AM	65	VAL
1	AM	81	VAL
1	AM	94	GLN
1	AM	95	ASP
1	AM	104	LEU
1	AM	106	GLU
1	AM	130	GLU
1	AM	133	ASN
1	AM	160	LEU
1	AM	192	THR
1	AM	198	VAL
1	AM	208	VAL
1	AM	214	ASP
1	AM	238	VAL
1	AM	256	THR
1	AM	260	VAL
1	AM	286	ASP
1	AM	325	VAL
1	AM	340	LEU
1	AM	363	LEU
1	AM	366	VAL
1	AM	375	GLU
1	AM	388	ILE
1	AM	394	LYS
1	AM	409	THR
1	AM	474	ARG
1	AM	481	VAL
1	AM	486	LEU
1	AM	516	LEU
1	AM	526	VAL
1	AM	531	THR
1	AM	533	ASP
1	AM	547	PHE
1	AM	549	VAL
1	AM	578	ARG
1	AM	583	VAL
1	AM	585	SER

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Mol	Chain	Res	Type
1	AM	638	VAL
1	AM	642	SER
1	AM	650	THR
1	AM	665	THR
1	AM	713	SER
1	AM	719	THR
1	AM	751	LEU
1	AM	759	LEU
1	AM	762	VAL
1	AM	777	LEU
1	AM	796	LYS
1	AM	821	LEU
1	AN	18	VAL
1	AN	19	LEU
1	AN	26	SER
1	AN	34	THR
1	AN	36	ILE
1	AN	81	VAL
1	AN	104	LEU
1	AN	130	GLU
1	AN	133	ASN
1	AN	162	ILE
1	AN	192	THR
1	AN	198	VAL
1	AN	208	VAL
1	AN	238	VAL
1	AN	242	THR
1	AN	253	VAL
1	AN	260	VAL
1	AN	286	ASP
1	AN	340	LEU
1	AN	366	VAL
1	AN	375	GLU
1	AN	404	SER
1	AN	411	ASP
1	AN	459	SER
1	AN	514	LEU
1	AN	517	LEU
1	AN	522	PHE
1	AN	543	TYR
1	AN	547	PHE
1	AN	549	VAL

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Mol	Chain	Res	Type
1	AN	550	SER
1	AN	568	VAL
1	AN	580	ARG
1	AN	585	SER
1	AN	599	ILE
1	AN	600	ARG
1	AN	603	VAL
1	AN	638	VAL
1	AN	646	VAL
1	AN	713	SER
1	AN	747	LYS
1	AN	759	LEU
1	AN	770	LEU
1	AN	777	LEU
1	AN	779	LEU
1	AN	796	LYS
1	AN	819	VAL
1	AN	828	LYS
1	AN	837	THR
1	AO	22	ASN
1	AO	26	SER
1	AO	30	VAL
1	AO	34	THR
1	AO	36	ILE
1	AO	43	ILE
1	AO	45	PHE
1	AO	60	VAL
1	AO	61	VAL
1	AO	65	VAL
1	AO	81	VAL
1	AO	84	ARG
1	AO	90	ILE
1	AO	104	LEU
1	AO	105	MET
1	AO	114	VAL
1	AO	128	ASP
1	AO	132	SER
1	AO	163	ILE
1	AO	167	ILE
1	AO	198	VAL
1	AO	208	VAL
1	AO	238	VAL

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Mol	Chain	Res	Type
1	AO	243	ARG
1	AO	256	THR
1	AO	260	VAL
1	AO	275	THR
1	AO	286	ASP
1	AO	349	VAL
1	AO	366	VAL
1	AO	404	SER
1	AO	474	ARG
1	AO	486	LEU
1	AO	522	PHE
1	AO	531	THR
1	AO	549	VAL
1	AO	568	VAL
1	AO	583	VAL
1	AO	585	SER
1	AO	587	THR
1	AO	595	SER
1	AO	599	ILE
1	AO	638	VAL
1	AO	646	VAL
1	AO	662	ILE
1	AO	663	GLU
1	AO	665	THR
1	AO	683	GLU
1	AO	713	SER
1	AO	754	GLU
1	AO	762	VAL
1	AO	797	GLN
1	AO	808	LYS
1	AO	821	LEU
1	AP	7	ILE
1	AP	9	ARG
1	AP	10	ILE
1	AP	18	VAL
1	AP	19	LEU
1	AP	26	SER
1	AP	34	THR
1	AP	36	ILE
1	AP	52	THR
1	AP	59	CYS
1	AP	60	VAL

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Mol	Chain	Res	Type
1	AP	65	VAL
1	AP	81	VAL
1	AP	94	GLN
1	AP	95	ASP
1	AP	104	LEU
1	AP	106	GLU
1	AP	116	LEU
1	AP	130	GLU
1	AP	133	ASN
1	AP	162	ILE
1	AP	192	THR
1	AP	198	VAL
1	AP	208	VAL
1	AP	238	VAL
1	AP	242	THR
1	AP	270	VAL
1	AP	286	ASP
1	AP	340	LEU
1	AP	363	LEU
1	AP	388	ILE
1	AP	409	THR
1	AP	474	ARG
1	AP	486	LEU
1	AP	514	LEU
1	AP	516	LEU
1	AP	517	LEU
1	AP	526	VAL
1	AP	531	THR
1	AP	533	ASP
1	AP	547	PHE
1	AP	561	LEU
1	AP	573	LYS
1	AP	583	VAL
1	AP	585	SER
1	AP	587	THR
1	AP	600	ARG
1	AP	603	VAL
1	AP	638	VAL
1	AP	650	THR
1	AP	719	THR
1	AP	747	LYS
1	AP	759	LEU

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Mol	Chain	Res	Type
1	AP	762	VAL
1	AP	768	LEU
1	AP	777	LEU
1	AP	779	LEU
1	AP	821	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1038) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	38	GLN
1	A	40	ASN
1	A	133	ASN
1	A	189	GLN
1	A	294	ASN
1	A	311	GLN
1	A	329	GLN
1	A	338	GLN
1	A	378	GLN
1	A	469	GLN
1	A	494	GLN
1	A	675	HIS
1	A	749	GLN
1	A	785	GLN
1	A	786	GLN
1	B	70	GLN
1	B	294	ASN
1	B	311	GLN
1	B	351	HIS
1	B	378	GLN
1	B	675	HIS
1	B	678	GLN
1	B	749	GLN
1	B	776	GLN
1	B	786	GLN
1	B	840	ASN
1	C	80	GLN
1	C	94	GLN
1	C	189	GLN
1	C	294	ASN
1	C	311	GLN
1	C	351	HIS
1	C	378	GLN

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Mol	Chain	Res	Type
1	C	594	ASN
1	C	648	GLN
1	C	675	HIS
1	C	678	GLN
1	C	696	GLN
1	C	749	GLN
1	C	776	GLN
1	C	797	GLN
1	D	70	GLN
1	D	294	ASN
1	D	311	GLN
1	D	329	GLN
1	D	351	HIS
1	D	378	GLN
1	D	669	GLN
1	D	675	HIS
1	D	678	GLN
1	D	749	GLN
1	D	776	GLN
1	D	840	ASN
1	E	133	ASN
1	E	189	GLN
1	E	294	ASN
1	E	311	GLN
1	E	329	GLN
1	E	351	HIS
1	E	378	GLN
1	E	659	GLN
1	E	675	HIS
1	E	678	GLN
1	E	749	GLN
1	E	785	GLN
1	F	94	GLN
1	F	189	GLN
1	F	279	GLN
1	F	294	ASN
1	F	311	GLN
1	F	351	HIS
1	F	378	GLN
1	F	509	HIS
1	F	594	ASN
1	F	675	HIS

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Mol	Chain	Res	Type
1	F	678	GLN
1	F	696	GLN
1	F	749	GLN
1	F	776	GLN
1	G	38	GLN
1	G	40	ASN
1	G	133	ASN
1	G	189	GLN
1	G	294	ASN
1	G	311	GLN
1	G	329	GLN
1	G	338	GLN
1	G	351	HIS
1	G	378	GLN
1	G	469	GLN
1	G	494	GLN
1	G	675	HIS
1	G	749	GLN
1	G	785	GLN
1	G	786	GLN
1	H	70	GLN
1	H	294	ASN
1	H	311	GLN
1	H	351	HIS
1	H	378	GLN
1	H	675	HIS
1	H	678	GLN
1	H	682	GLN
1	H	749	GLN
1	H	776	GLN
1	H	786	GLN
1	H	840	ASN
1	I	80	GLN
1	I	189	GLN
1	I	294	ASN
1	I	311	GLN
1	I	351	HIS
1	I	378	GLN
1	I	594	ASN
1	I	648	GLN
1	I	675	HIS
1	I	678	GLN

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Mol	Chain	Res	Type
1	I	696	GLN
1	I	749	GLN
1	I	776	GLN
1	I	797	GLN
1	J	70	GLN
1	J	294	ASN
1	J	311	GLN
1	J	329	GLN
1	J	351	HIS
1	J	378	GLN
1	J	669	GLN
1	J	675	HIS
1	J	678	GLN
1	J	749	GLN
1	J	776	GLN
1	J	840	ASN
1	K	133	ASN
1	K	189	GLN
1	K	294	ASN
1	K	311	GLN
1	K	329	GLN
1	K	351	HIS
1	K	378	GLN
1	K	592	HIS
1	K	659	GLN
1	K	675	HIS
1	K	749	GLN
1	K	785	GLN
1	L	94	GLN
1	L	189	GLN
1	L	279	GLN
1	L	294	ASN
1	L	311	GLN
1	L	351	HIS
1	L	378	GLN
1	L	509	HIS
1	L	594	ASN
1	L	675	HIS
1	L	678	GLN
1	L	696	GLN
1	L	749	GLN
1	L	776	GLN

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Mol	Chain	Res	Type
1	L	797	GLN
1	M	38	GLN
1	M	40	ASN
1	M	133	ASN
1	M	189	GLN
1	M	294	ASN
1	M	311	GLN
1	M	329	GLN
1	M	338	GLN
1	M	351	HIS
1	M	378	GLN
1	M	469	GLN
1	M	494	GLN
1	M	675	HIS
1	M	749	GLN
1	M	785	GLN
1	M	786	GLN
1	N	70	GLN
1	N	294	ASN
1	N	311	GLN
1	N	351	HIS
1	N	378	GLN
1	N	675	HIS
1	N	678	GLN
1	N	749	GLN
1	N	776	GLN
1	N	786	GLN
1	N	840	ASN
1	O	80	GLN
1	O	189	GLN
1	O	294	ASN
1	O	311	GLN
1	O	351	HIS
1	O	378	GLN
1	O	594	ASN
1	O	648	GLN
1	O	675	HIS
1	O	678	GLN
1	O	696	GLN
1	O	749	GLN
1	O	776	GLN
1	O	797	GLN

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Mol	Chain	Res	Type
1	P	70	GLN
1	P	189	GLN
1	P	294	ASN
1	P	311	GLN
1	P	329	GLN
1	P	351	HIS
1	P	378	GLN
1	P	669	GLN
1	P	675	HIS
1	P	678	GLN
1	P	749	GLN
1	P	776	GLN
1	P	840	ASN
1	Q	133	ASN
1	Q	189	GLN
1	Q	294	ASN
1	Q	311	GLN
1	Q	329	GLN
1	Q	351	HIS
1	Q	378	GLN
1	Q	592	HIS
1	Q	659	GLN
1	Q	675	HIS
1	Q	749	GLN
1	Q	785	GLN
1	R	94	GLN
1	R	189	GLN
1	R	279	GLN
1	R	294	ASN
1	R	311	GLN
1	R	351	HIS
1	R	378	GLN
1	R	509	HIS
1	R	594	ASN
1	R	675	HIS
1	R	678	GLN
1	R	749	GLN
1	R	776	GLN
1	S	38	GLN
1	S	40	ASN
1	S	133	ASN
1	S	189	GLN

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Mol	Chain	Res	Type
1	S	294	ASN
1	S	311	GLN
1	S	329	GLN
1	S	338	GLN
1	S	351	HIS
1	S	378	GLN
1	S	469	GLN
1	S	494	GLN
1	S	675	HIS
1	S	749	GLN
1	S	785	GLN
1	S	786	GLN
1	T	70	GLN
1	T	294	ASN
1	T	311	GLN
1	T	351	HIS
1	T	378	GLN
1	T	675	HIS
1	T	678	GLN
1	T	749	GLN
1	T	776	GLN
1	T	786	GLN
1	T	840	ASN
1	U	80	GLN
1	U	189	GLN
1	U	294	ASN
1	U	311	GLN
1	U	351	HIS
1	U	378	GLN
1	U	594	ASN
1	U	648	GLN
1	U	675	HIS
1	U	678	GLN
1	U	696	GLN
1	U	749	GLN
1	U	776	GLN
1	U	797	GLN
1	V	70	GLN
1	V	294	ASN
1	V	311	GLN
1	V	329	GLN
1	V	351	HIS

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Mol	Chain	Res	Type
1	V	378	GLN
1	V	669	GLN
1	V	675	HIS
1	V	678	GLN
1	V	749	GLN
1	V	776	GLN
1	V	840	ASN
1	W	133	ASN
1	W	189	GLN
1	W	294	ASN
1	W	311	GLN
1	W	329	GLN
1	W	338	GLN
1	W	351	HIS
1	W	378	GLN
1	W	659	GLN
1	W	675	HIS
1	W	678	GLN
1	W	749	GLN
1	W	785	GLN
1	X	94	GLN
1	X	189	GLN
1	X	294	ASN
1	X	311	GLN
1	X	351	HIS
1	X	378	GLN
1	X	594	ASN
1	X	675	HIS
1	X	678	GLN
1	X	749	GLN
1	X	776	GLN
1	X	797	GLN
1	Y	133	ASN
1	Y	189	GLN
1	Y	294	ASN
1	Y	311	GLN
1	Y	329	GLN
1	Y	338	GLN
1	Y	378	GLN
1	Y	469	GLN
1	Y	494	GLN
1	Y	675	HIS

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Mol	Chain	Res	Type
1	Y	749	GLN
1	Y	785	GLN
1	Y	786	GLN
1	Z	70	GLN
1	Z	294	ASN
1	Z	311	GLN
1	Z	351	HIS
1	Z	378	GLN
1	Z	675	HIS
1	Z	678	GLN
1	Z	749	GLN
1	Z	776	GLN
1	Z	786	GLN
1	Z	840	ASN
1	a	80	GLN
1	a	189	GLN
1	a	294	ASN
1	a	311	GLN
1	a	351	HIS
1	a	378	GLN
1	a	469	GLN
1	a	594	ASN
1	a	648	GLN
1	a	675	HIS
1	a	678	GLN
1	a	696	GLN
1	a	749	GLN
1	a	776	GLN
1	a	797	GLN
1	b	294	ASN
1	b	311	GLN
1	b	329	GLN
1	b	351	HIS
1	b	378	GLN
1	b	509	HIS
1	b	669	GLN
1	b	675	HIS
1	b	678	GLN
1	b	749	GLN
1	b	776	GLN
1	b	840	ASN
1	c	133	ASN

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Mol	Chain	Res	Type
1	c	164	HIS
1	c	189	GLN
1	c	294	ASN
1	c	311	GLN
1	c	329	GLN
1	c	351	HIS
1	c	378	GLN
1	c	659	GLN
1	c	675	HIS
1	c	749	GLN
1	c	785	GLN
1	d	94	GLN
1	d	189	GLN
1	d	279	GLN
1	d	294	ASN
1	d	311	GLN
1	d	351	HIS
1	d	378	GLN
1	d	509	HIS
1	d	594	ASN
1	d	675	HIS
1	d	678	GLN
1	d	749	GLN
1	d	776	GLN
1	e	38	GLN
1	e	40	ASN
1	e	133	ASN
1	e	189	GLN
1	e	294	ASN
1	e	311	GLN
1	e	329	GLN
1	e	338	GLN
1	e	351	HIS
1	e	378	GLN
1	e	469	GLN
1	e	494	GLN
1	e	675	HIS
1	e	749	GLN
1	e	785	GLN
1	e	786	GLN
1	f	70	GLN
1	f	294	ASN

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Mol	Chain	Res	Type
1	f	311	GLN
1	f	351	HIS
1	f	378	GLN
1	f	675	HIS
1	f	678	GLN
1	f	749	GLN
1	f	776	GLN
1	f	786	GLN
1	f	840	ASN
1	g	80	GLN
1	g	189	GLN
1	g	294	ASN
1	g	311	GLN
1	g	351	HIS
1	g	378	GLN
1	g	594	ASN
1	g	648	GLN
1	g	675	HIS
1	g	678	GLN
1	g	696	GLN
1	g	749	GLN
1	g	776	GLN
1	g	797	GLN
1	h	70	GLN
1	h	189	GLN
1	h	294	ASN
1	h	311	GLN
1	h	329	GLN
1	h	351	HIS
1	h	378	GLN
1	h	509	HIS
1	h	669	GLN
1	h	675	HIS
1	h	678	GLN
1	h	749	GLN
1	h	776	GLN
1	h	840	ASN
1	i	133	ASN
1	i	189	GLN
1	i	294	ASN
1	i	311	GLN
1	i	329	GLN

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Mol	Chain	Res	Type
1	i	351	HIS
1	i	378	GLN
1	i	659	GLN
1	i	675	HIS
1	i	678	GLN
1	i	749	GLN
1	i	785	GLN
1	j	94	GLN
1	j	189	GLN
1	j	279	GLN
1	j	294	ASN
1	j	311	GLN
1	j	351	HIS
1	j	378	GLN
1	j	509	HIS
1	j	594	ASN
1	j	675	HIS
1	j	678	GLN
1	j	696	GLN
1	j	749	GLN
1	j	776	GLN
1	k	38	GLN
1	k	40	ASN
1	k	133	ASN
1	k	189	GLN
1	k	294	ASN
1	k	311	GLN
1	k	329	GLN
1	k	338	GLN
1	k	351	HIS
1	k	378	GLN
1	k	469	GLN
1	k	494	GLN
1	k	675	HIS
1	k	749	GLN
1	k	785	GLN
1	k	786	GLN
1	l	70	GLN
1	l	294	ASN
1	l	311	GLN
1	l	351	HIS
1	l	378	GLN

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Mol	Chain	Res	Type
1	l	675	HIS
1	l	678	GLN
1	l	749	GLN
1	l	776	GLN
1	l	786	GLN
1	l	840	ASN
1	m	80	GLN
1	m	189	GLN
1	m	294	ASN
1	m	311	GLN
1	m	351	HIS
1	m	378	GLN
1	m	594	ASN
1	m	648	GLN
1	m	675	HIS
1	m	678	GLN
1	m	696	GLN
1	m	749	GLN
1	m	776	GLN
1	m	797	GLN
1	n	70	GLN
1	n	189	GLN
1	n	294	ASN
1	n	311	GLN
1	n	329	GLN
1	n	351	HIS
1	n	378	GLN
1	n	669	GLN
1	n	675	HIS
1	n	678	GLN
1	n	749	GLN
1	n	776	GLN
1	n	840	ASN
1	o	133	ASN
1	o	189	GLN
1	o	294	ASN
1	o	311	GLN
1	o	329	GLN
1	o	338	GLN
1	o	351	HIS
1	o	378	GLN
1	o	659	GLN

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Mol	Chain	Res	Type
1	o	675	HIS
1	o	678	GLN
1	o	749	GLN
1	o	785	GLN
1	p	94	GLN
1	p	189	GLN
1	p	294	ASN
1	p	311	GLN
1	p	351	HIS
1	p	378	GLN
1	p	594	ASN
1	p	675	HIS
1	p	678	GLN
1	p	696	GLN
1	p	749	GLN
1	p	776	GLN
1	q	133	ASN
1	q	189	GLN
1	q	294	ASN
1	q	311	GLN
1	q	329	GLN
1	q	338	GLN
1	q	351	HIS
1	q	378	GLN
1	q	469	GLN
1	q	494	GLN
1	q	675	HIS
1	q	749	GLN
1	q	785	GLN
1	q	786	GLN
1	r	70	GLN
1	r	294	ASN
1	r	311	GLN
1	r	351	HIS
1	r	378	GLN
1	r	675	HIS
1	r	678	GLN
1	r	749	GLN
1	r	776	GLN
1	r	786	GLN
1	r	840	ASN
1	s	80	GLN

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Mol	Chain	Res	Type
1	s	189	GLN
1	s	294	ASN
1	s	311	GLN
1	s	351	HIS
1	s	378	GLN
1	s	594	ASN
1	s	648	GLN
1	s	675	HIS
1	s	678	GLN
1	s	696	GLN
1	s	749	GLN
1	s	776	GLN
1	s	797	GLN
1	t	70	GLN
1	t	189	GLN
1	t	294	ASN
1	t	311	GLN
1	t	329	GLN
1	t	351	HIS
1	t	378	GLN
1	t	669	GLN
1	t	675	HIS
1	t	678	GLN
1	t	749	GLN
1	t	776	GLN
1	t	840	ASN
1	u	133	ASN
1	u	189	GLN
1	u	294	ASN
1	u	311	GLN
1	u	329	GLN
1	u	338	GLN
1	u	351	HIS
1	u	378	GLN
1	u	385	ASN
1	u	659	GLN
1	u	675	HIS
1	u	678	GLN
1	u	749	GLN
1	u	785	GLN
1	u	786	GLN
1	v	94	GLN

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Mol	Chain	Res	Type
1	v	189	GLN
1	v	294	ASN
1	v	311	GLN
1	v	351	HIS
1	v	378	GLN
1	v	594	ASN
1	v	675	HIS
1	v	678	GLN
1	v	696	GLN
1	v	749	GLN
1	v	776	GLN
1	w	38	GLN
1	w	40	ASN
1	w	133	ASN
1	w	189	GLN
1	w	294	ASN
1	w	311	GLN
1	w	329	GLN
1	w	338	GLN
1	w	351	HIS
1	w	378	GLN
1	w	469	GLN
1	w	494	GLN
1	w	675	HIS
1	w	749	GLN
1	w	785	GLN
1	w	786	GLN
1	x	70	GLN
1	x	294	ASN
1	x	311	GLN
1	x	351	HIS
1	x	378	GLN
1	x	675	HIS
1	x	678	GLN
1	x	682	GLN
1	x	749	GLN
1	x	776	GLN
1	x	786	GLN
1	x	840	ASN
1	y	40	ASN
1	y	80	GLN
1	y	189	GLN

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Mol	Chain	Res	Type
1	y	294	ASN
1	y	311	GLN
1	y	351	HIS
1	y	378	GLN
1	y	594	ASN
1	y	648	GLN
1	y	675	HIS
1	y	678	GLN
1	y	696	GLN
1	y	749	GLN
1	y	776	GLN
1	y	797	GLN
1	z	70	GLN
1	z	189	GLN
1	z	294	ASN
1	z	311	GLN
1	z	329	GLN
1	z	351	HIS
1	z	378	GLN
1	z	669	GLN
1	z	675	HIS
1	z	678	GLN
1	z	749	GLN
1	z	776	GLN
1	z	840	ASN
1	0	133	ASN
1	0	189	GLN
1	0	294	ASN
1	0	311	GLN
1	0	329	GLN
1	0	338	GLN
1	0	351	HIS
1	0	378	GLN
1	0	659	GLN
1	0	675	HIS
1	0	678	GLN
1	0	749	GLN
1	0	785	GLN
1	0	786	GLN
1	1	80	GLN
1	1	94	GLN
1	1	189	GLN

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Mol	Chain	Res	Type
1	1	294	ASN
1	1	311	GLN
1	1	351	HIS
1	1	378	GLN
1	1	594	ASN
1	1	675	HIS
1	1	678	GLN
1	1	696	GLN
1	1	749	GLN
1	1	776	GLN
1	2	38	GLN
1	2	40	ASN
1	2	133	ASN
1	2	189	GLN
1	2	294	ASN
1	2	311	GLN
1	2	329	GLN
1	2	338	GLN
1	2	378	GLN
1	2	469	GLN
1	2	494	GLN
1	2	675	HIS
1	2	678	GLN
1	2	749	GLN
1	2	785	GLN
1	2	786	GLN
1	3	70	GLN
1	3	294	ASN
1	3	311	GLN
1	3	351	HIS
1	3	378	GLN
1	3	675	HIS
1	3	678	GLN
1	3	696	GLN
1	3	749	GLN
1	3	776	GLN
1	3	786	GLN
1	3	840	ASN
1	4	80	GLN
1	4	94	GLN
1	4	189	GLN
1	4	294	ASN

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Mol	Chain	Res	Type
1	4	311	GLN
1	4	351	HIS
1	4	378	GLN
1	4	594	ASN
1	4	648	GLN
1	4	675	HIS
1	4	678	GLN
1	4	696	GLN
1	4	749	GLN
1	4	776	GLN
1	4	797	GLN
1	5	189	GLN
1	5	294	ASN
1	5	311	GLN
1	5	329	GLN
1	5	351	HIS
1	5	378	GLN
1	5	669	GLN
1	5	675	HIS
1	5	678	GLN
1	5	749	GLN
1	5	776	GLN
1	5	840	ASN
1	6	133	ASN
1	6	164	HIS
1	6	189	GLN
1	6	294	ASN
1	6	311	GLN
1	6	329	GLN
1	6	351	HIS
1	6	378	GLN
1	6	659	GLN
1	6	675	HIS
1	6	678	GLN
1	6	749	GLN
1	6	785	GLN
1	6	786	GLN
1	7	80	GLN
1	7	94	GLN
1	7	189	GLN
1	7	279	GLN
1	7	294	ASN

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Mol	Chain	Res	Type
1	7	311	GLN
1	7	351	HIS
1	7	378	GLN
1	7	594	ASN
1	7	675	HIS
1	7	678	GLN
1	7	696	GLN
1	7	749	GLN
1	7	776	GLN
1	7	797	GLN
1	8	38	GLN
1	8	40	ASN
1	8	133	ASN
1	8	189	GLN
1	8	294	ASN
1	8	311	GLN
1	8	329	GLN
1	8	338	GLN
1	8	378	GLN
1	8	469	GLN
1	8	494	GLN
1	8	675	HIS
1	8	749	GLN
1	8	785	GLN
1	8	786	GLN
1	9	70	GLN
1	9	294	ASN
1	9	311	GLN
1	9	329	GLN
1	9	351	HIS
1	9	378	GLN
1	9	675	HIS
1	9	678	GLN
1	9	696	GLN
1	9	749	GLN
1	9	776	GLN
1	9	786	GLN
1	9	840	ASN
1	AA	80	GLN
1	AA	189	GLN
1	AA	294	ASN
1	AA	311	GLN

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Mol	Chain	Res	Type
1	AA	351	HIS
1	AA	378	GLN
1	AA	594	ASN
1	AA	648	GLN
1	AA	675	HIS
1	AA	678	GLN
1	AA	696	GLN
1	AA	749	GLN
1	AA	776	GLN
1	AA	797	GLN
1	AB	70	GLN
1	AB	189	GLN
1	AB	294	ASN
1	AB	311	GLN
1	AB	329	GLN
1	AB	351	HIS
1	AB	378	GLN
1	AB	669	GLN
1	AB	675	HIS
1	AB	678	GLN
1	AB	749	GLN
1	AB	776	GLN
1	AB	840	ASN
1	AC	133	ASN
1	AC	164	HIS
1	AC	189	GLN
1	AC	294	ASN
1	AC	311	GLN
1	AC	329	GLN
1	AC	351	HIS
1	AC	378	GLN
1	AC	592	HIS
1	AC	659	GLN
1	AC	675	HIS
1	AC	678	GLN
1	AC	749	GLN
1	AC	785	GLN
1	AD	94	GLN
1	AD	189	GLN
1	AD	279	GLN
1	AD	294	ASN
1	AD	311	GLN

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Mol	Chain	Res	Type
1	AD	351	HIS
1	AD	378	GLN
1	AD	594	ASN
1	AD	675	HIS
1	AD	678	GLN
1	AD	696	GLN
1	AD	749	GLN
1	AD	776	GLN
1	AE	38	GLN
1	AE	40	ASN
1	AE	133	ASN
1	AE	189	GLN
1	AE	294	ASN
1	AE	311	GLN
1	AE	329	GLN
1	AE	338	GLN
1	AE	378	GLN
1	AE	469	GLN
1	AE	494	GLN
1	AE	675	HIS
1	AE	749	GLN
1	AE	785	GLN
1	AE	786	GLN
1	AF	70	GLN
1	AF	294	ASN
1	AF	311	GLN
1	AF	351	HIS
1	AF	378	GLN
1	AF	675	HIS
1	AF	678	GLN
1	AF	749	GLN
1	AF	776	GLN
1	AF	786	GLN
1	AF	840	ASN
1	AG	80	GLN
1	AG	189	GLN
1	AG	294	ASN
1	AG	311	GLN
1	AG	351	HIS
1	AG	378	GLN
1	AG	594	ASN
1	AG	648	GLN

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Mol	Chain	Res	Type
1	AG	675	HIS
1	AG	678	GLN
1	AG	696	GLN
1	AG	749	GLN
1	AG	776	GLN
1	AG	797	GLN
1	AH	294	ASN
1	AH	311	GLN
1	AH	329	GLN
1	AH	351	HIS
1	AH	378	GLN
1	AH	669	GLN
1	AH	675	HIS
1	AH	678	GLN
1	AH	749	GLN
1	AH	776	GLN
1	AH	840	ASN
1	AI	38	GLN
1	AI	40	ASN
1	AI	133	ASN
1	AI	189	GLN
1	AI	294	ASN
1	AI	311	GLN
1	AI	329	GLN
1	AI	351	HIS
1	AI	378	GLN
1	AI	659	GLN
1	AI	675	HIS
1	AI	749	GLN
1	AI	785	GLN
1	AJ	94	GLN
1	AJ	189	GLN
1	AJ	279	GLN
1	AJ	294	ASN
1	AJ	311	GLN
1	AJ	351	HIS
1	AJ	378	GLN
1	AJ	594	ASN
1	AJ	675	HIS
1	AJ	678	GLN
1	AJ	696	GLN
1	AJ	749	GLN

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Mol	Chain	Res	Type
1	AJ	776	GLN
1	AK	38	GLN
1	AK	40	ASN
1	AK	133	ASN
1	AK	189	GLN
1	AK	294	ASN
1	AK	311	GLN
1	AK	329	GLN
1	AK	338	GLN
1	AK	378	GLN
1	AK	469	GLN
1	AK	494	GLN
1	AK	675	HIS
1	AK	749	GLN
1	AK	785	GLN
1	AK	786	GLN
1	AL	70	GLN
1	AL	294	ASN
1	AL	311	GLN
1	AL	329	GLN
1	AL	351	HIS
1	AL	378	GLN
1	AL	675	HIS
1	AL	678	GLN
1	AL	749	GLN
1	AL	776	GLN
1	AL	786	GLN
1	AL	840	ASN
1	AM	80	GLN
1	AM	189	GLN
1	AM	294	ASN
1	AM	311	GLN
1	AM	351	HIS
1	AM	378	GLN
1	AM	594	ASN
1	AM	648	GLN
1	AM	675	HIS
1	AM	678	GLN
1	AM	696	GLN
1	AM	749	GLN
1	AM	776	GLN
1	AM	797	GLN

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Mol	Chain	Res	Type
1	AN	70	GLN
1	AN	189	GLN
1	AN	294	ASN
1	AN	311	GLN
1	AN	329	GLN
1	AN	351	HIS
1	AN	378	GLN
1	AN	669	GLN
1	AN	675	HIS
1	AN	678	GLN
1	AN	749	GLN
1	AN	776	GLN
1	AN	840	ASN
1	AO	133	ASN
1	AO	189	GLN
1	AO	294	ASN
1	AO	311	GLN
1	AO	329	GLN
1	AO	351	HIS
1	AO	378	GLN
1	AO	592	HIS
1	AO	659	GLN
1	AO	675	HIS
1	AO	678	GLN
1	AO	749	GLN
1	AO	785	GLN
1	AP	94	GLN
1	AP	189	GLN
1	AP	279	GLN
1	AP	294	ASN
1	AP	311	GLN
1	AP	351	HIS
1	AP	378	GLN
1	AP	594	ASN
1	AP	675	HIS
1	AP	678	GLN
1	AP	696	GLN
1	AP	749	GLN
1	AP	776	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

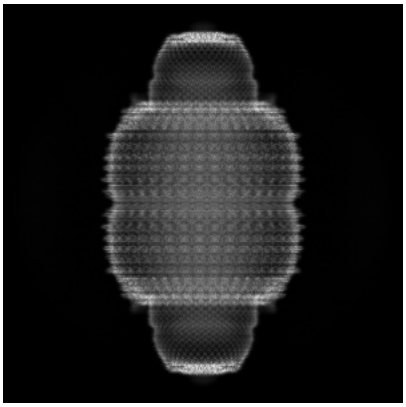
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-73814. These allow visual inspection of the internal detail of the map and identification of artifacts.

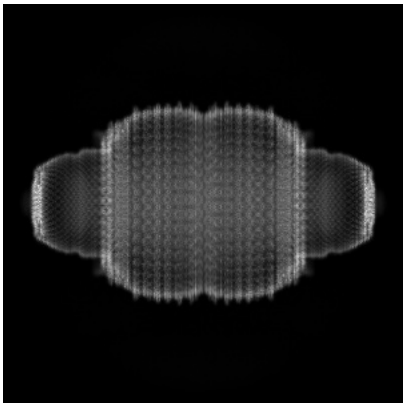
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

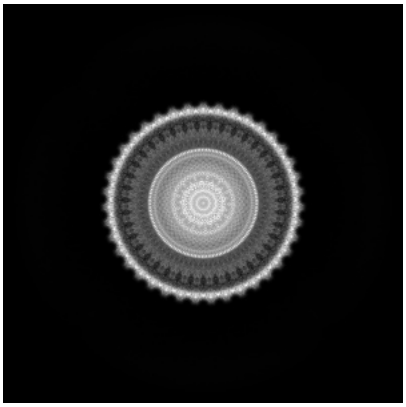
6.1.1 Primary map



X



Y

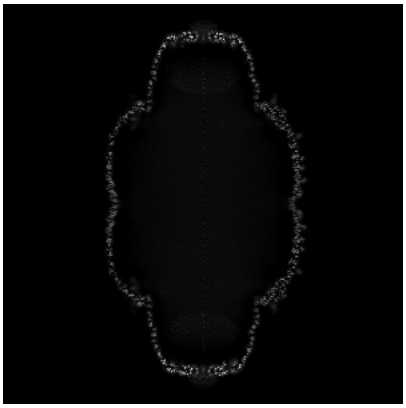


Z

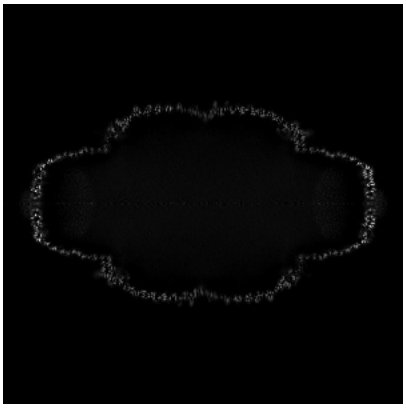
The images above show the map projected in three orthogonal directions.

6.2 Central slices

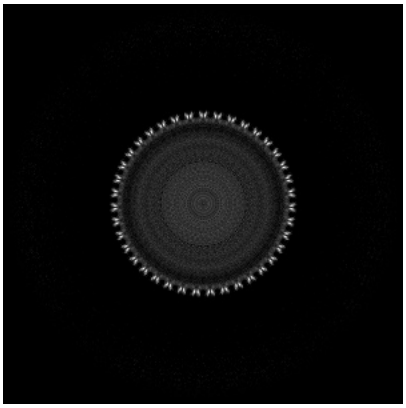
6.2.1 Primary map



X Index: 350



Y Index: 350

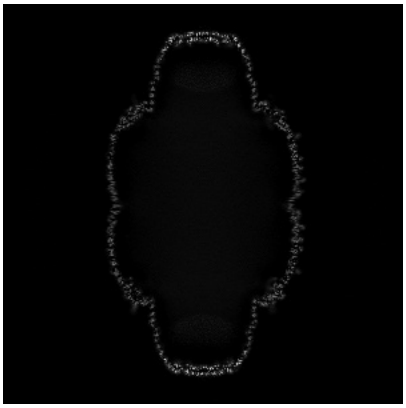


Z Index: 350

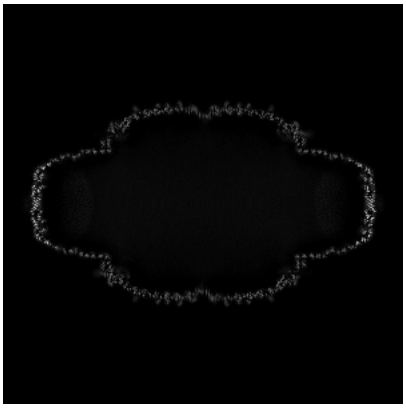
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

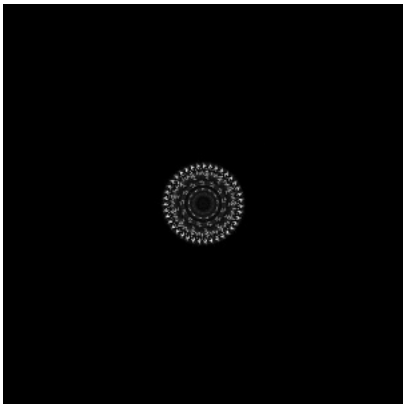
6.3.1 Primary map



X Index: 377



Y Index: 371

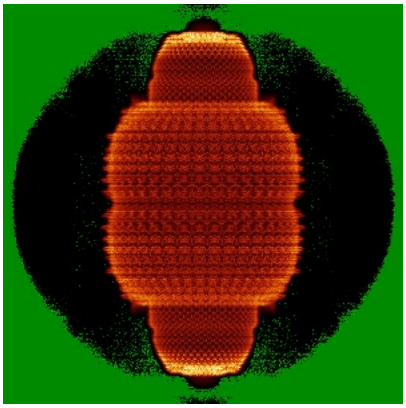


Z Index: 633

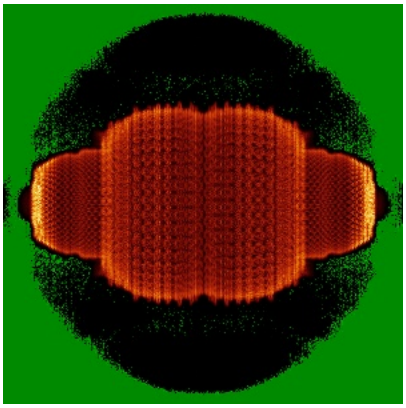
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

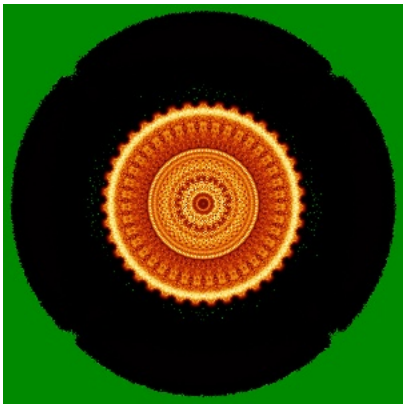
6.4.1 Primary map



X



Y



Z

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

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.0753. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

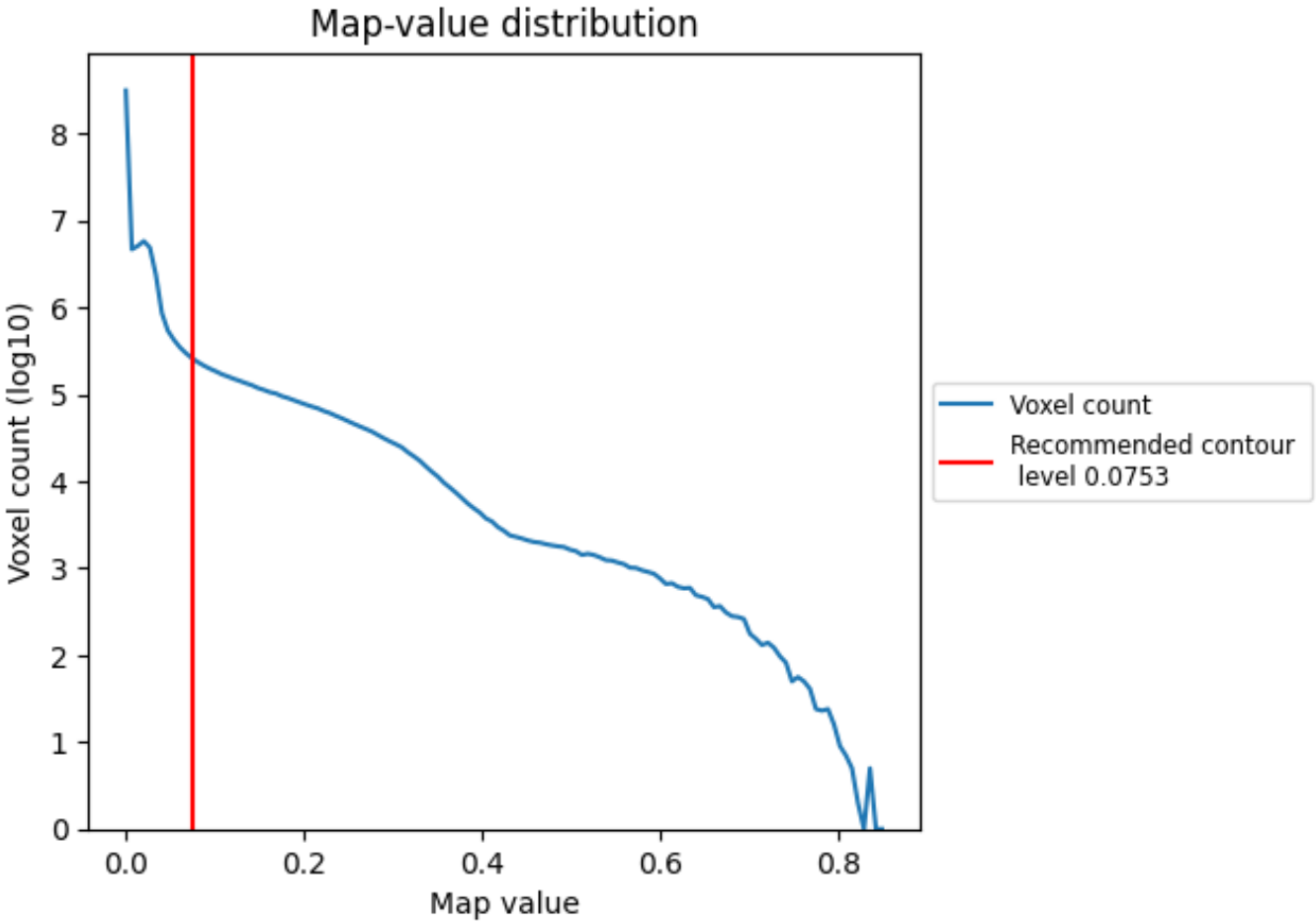
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

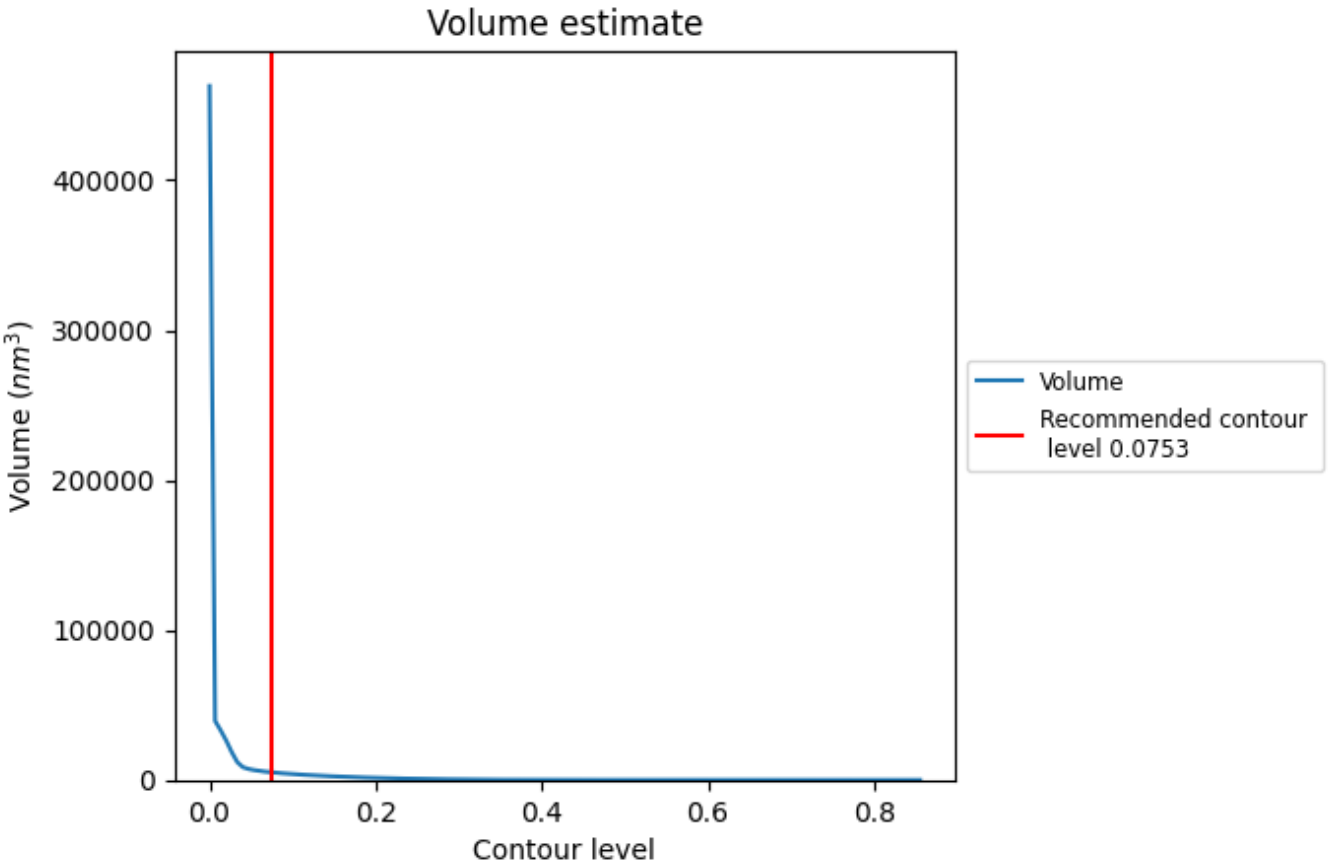
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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.

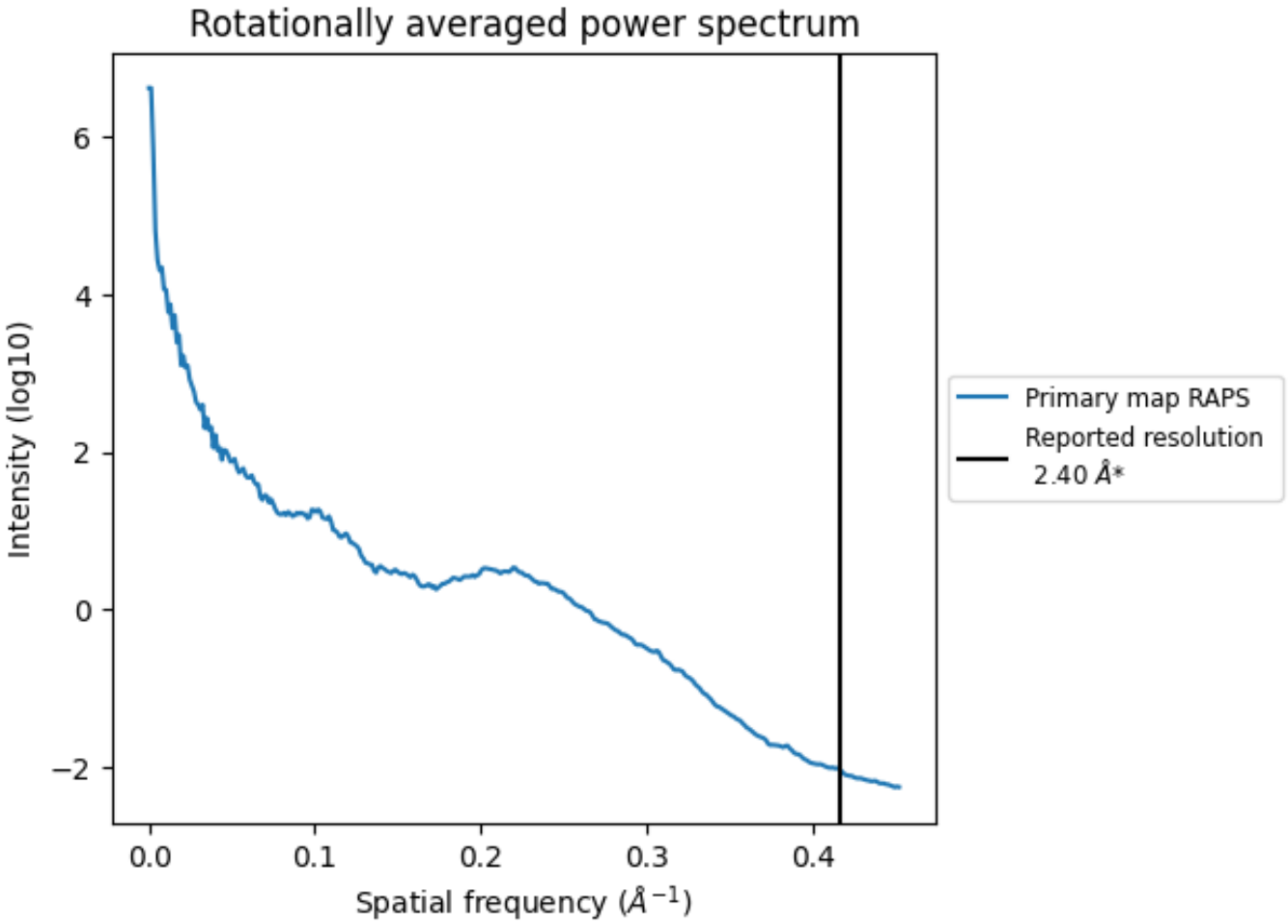
7.2 Volume estimate



The volume at the recommended contour level is 5051 nm^3; this corresponds to an approximate mass of 4562 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 0.417 $Å^{-1}$

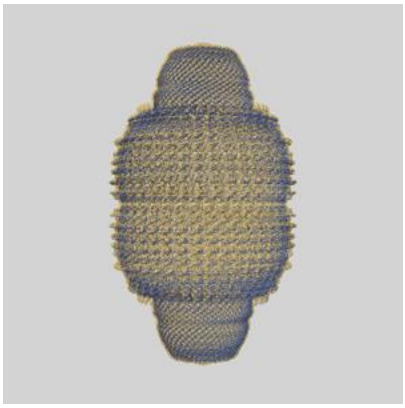
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

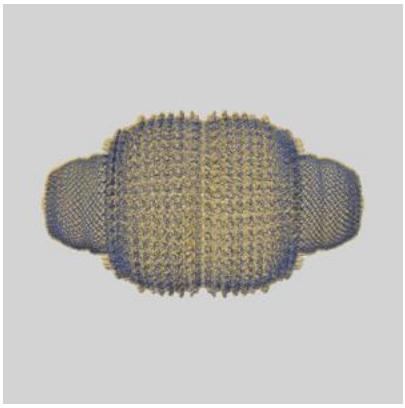
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-73814 and PDB model 9Z4W. Per-residue inclusion information can be found in section 3 on page 10.

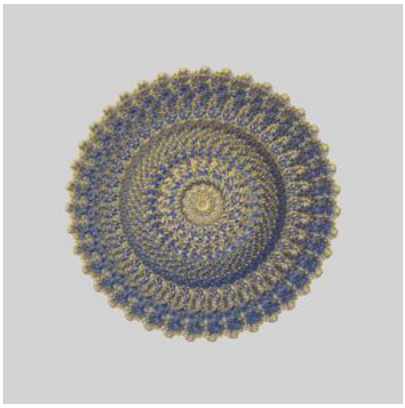
9.1 Map-model overlay



X



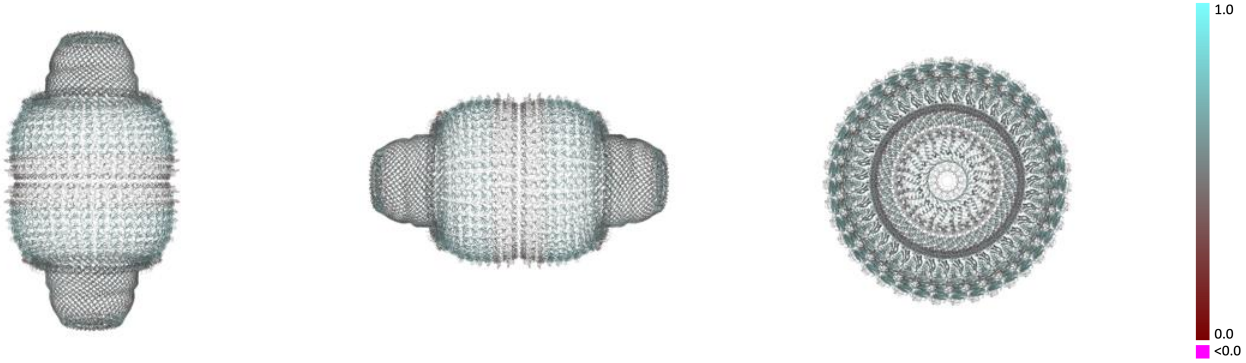
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0753 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.

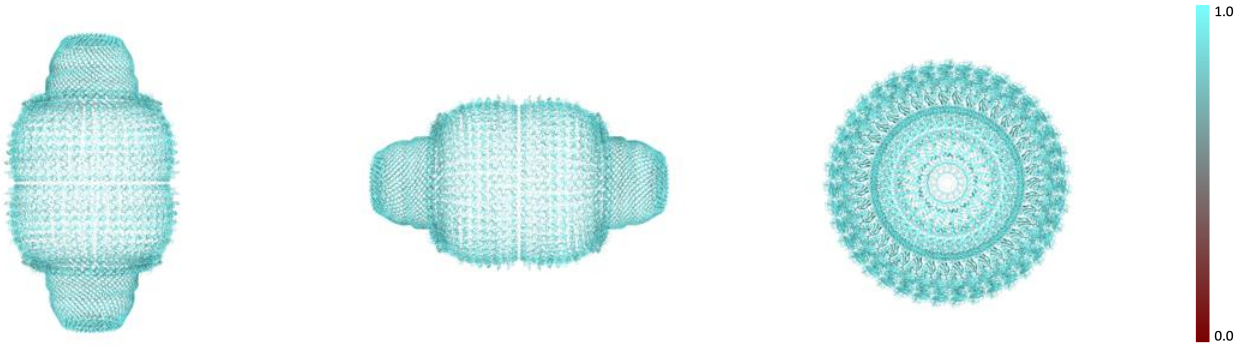
9.2 Q-score mapped to coordinate model (i)



X Y Z

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.

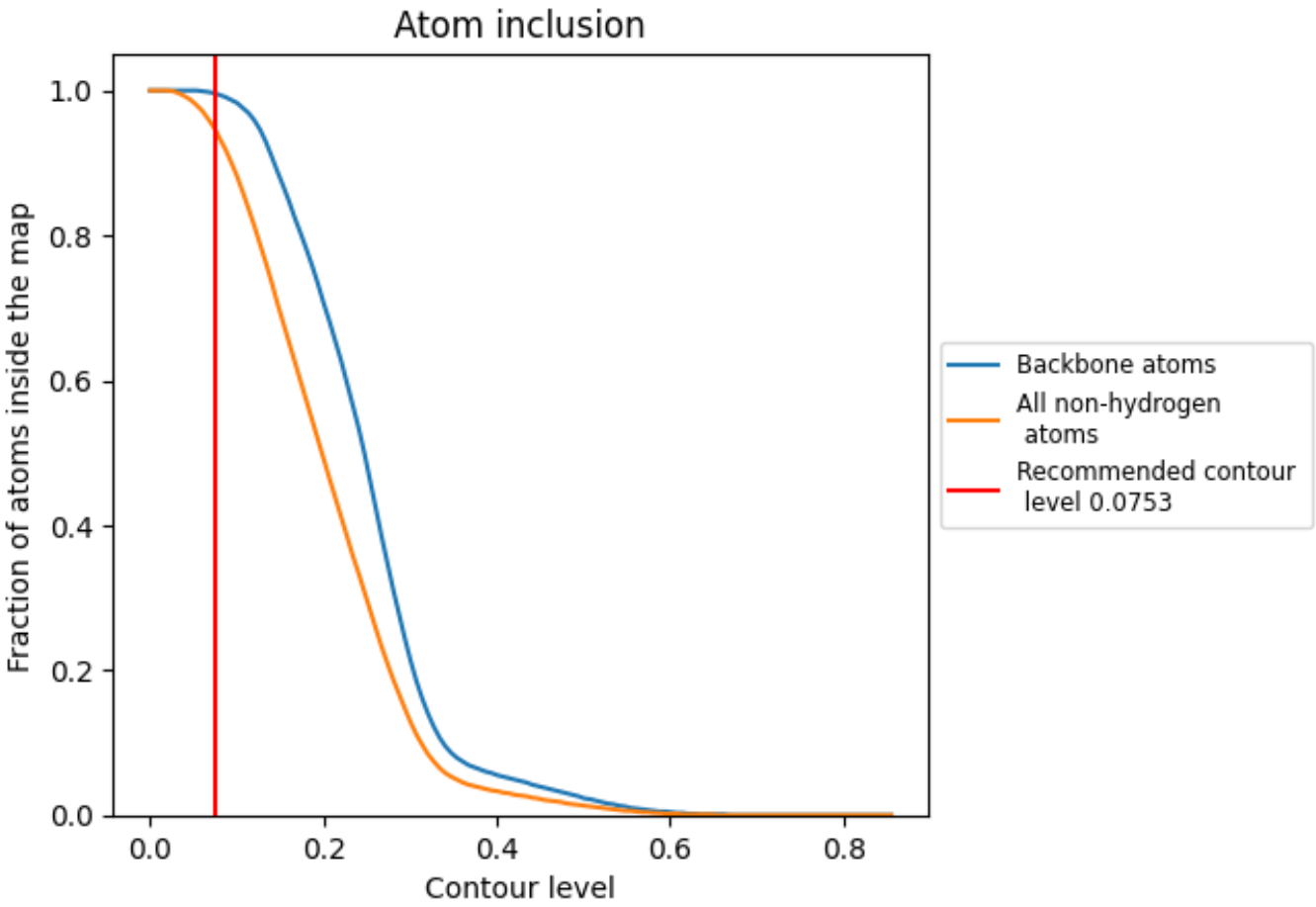
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

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 (0.0753).

9.4 Atom inclusion (i)



At the recommended contour level, 100% of all backbone atoms, 95% 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 (0.0753) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9460	0.5220
0	0.9460	0.5230
1	0.9470	0.5220
2	0.9460	0.5240
3	0.9450	0.5240
4	0.9460	0.5240
5	0.9440	0.5210
6	0.9470	0.5240
7	0.9470	0.5220
8	0.9450	0.5240
9	0.9440	0.5230
A	0.9460	0.5210
AA	0.9470	0.5240
AB	0.9430	0.5200
AC	0.9460	0.5240
AD	0.9480	0.5220
AE	0.9450	0.5230
AF	0.9450	0.5240
AG	0.9470	0.5240
AH	0.9450	0.5210
AI	0.9470	0.5230
AJ	0.9470	0.5220
AK	0.9450	0.5230
AL	0.9450	0.5230
AM	0.9480	0.5230
AN	0.9450	0.5200
AO	0.9470	0.5240
AP	0.9460	0.5220
B	0.9440	0.5220
C	0.9480	0.5230
D	0.9440	0.5210
E	0.9460	0.5230
F	0.9460	0.5230
G	0.9450	0.5210
H	0.9440	0.5210

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Chain	Atom inclusion	Q-score
I	0.9480	0.5230
J	0.9440	0.5200
K	0.9460	0.5240
L	0.9470	0.5230
M	0.9450	0.5210
N	0.9440	0.5210
O	0.9470	0.5230
P	0.9450	0.5210
Q	0.9470	0.5230
R	0.9470	0.5230
S	0.9460	0.5210
T	0.9440	0.5220
U	0.9480	0.5220
V	0.9430	0.5210
W	0.9450	0.5240
X	0.9480	0.5230
Y	0.9440	0.5210
Z	0.9440	0.5220
a	0.9480	0.5230
b	0.9430	0.5220
c	0.9470	0.5230
d	0.9470	0.5240
e	0.9450	0.5210
f	0.9450	0.5220
g	0.9480	0.5240
h	0.9430	0.5210
i	0.9460	0.5240
j	0.9460	0.5230
k	0.9450	0.5230
l	0.9440	0.5230
m	0.9470	0.5240
n	0.9450	0.5210
o	0.9460	0.5230
p	0.9470	0.5240
q	0.9460	0.5230
r	0.9440	0.5230
s	0.9460	0.5250
t	0.9430	0.5200
u	0.9470	0.5230
v	0.9460	0.5220
w	0.9460	0.5240
x	0.9460	0.5240

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Chain	Atom inclusion	Q-score
y	0.9490	0.5250
z	0.9450	0.5200