



Full wwPDB NMR Structure Validation Report ⓘ

Mar 5, 2026 – 06:43 AM UTC

PDB ID : 3J07 / pdb_00003j07
EMDB ID : EMD-1776
BMRB ID : 16391
Title : Model of a 24mer alphaB-crystallin multimer
Authors : Jehle, S.; Vollmar, B.; Bardiaux, B.; Dove, K.K.; Rajagopal, P.; Gonen, T.;
Oschkinat, H.; Klevit, R.E.
Deposited on : 2011-04-27
Based on initial model : 2KLR

This is a Full wwPDB NMR Structure 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/NMRValidationReportHelp>

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 : **NOT EXECUTED**
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : **NOT EXECUTED**
MapQ : **NOT EXECUTED**
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

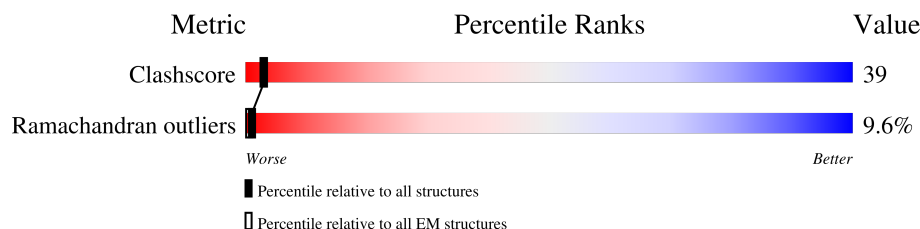
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
SOLID-STATE NMR, SOLUTION SCATTERING, ELECTRON MICROSCOPY

The reported resolution of this entry is 20.00 Å.

The overall completeness of chemical shifts assignment was not calculated.

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.



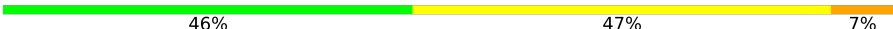
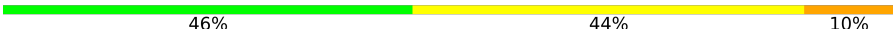
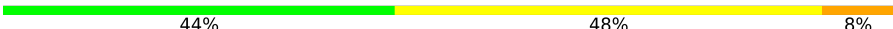
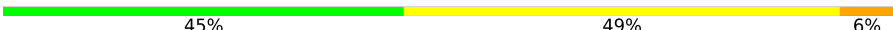
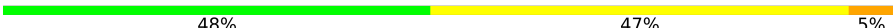
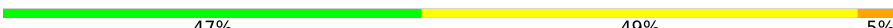
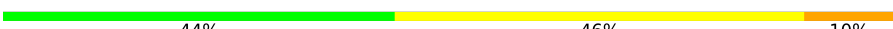
Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	229148	23984
Ramachandran outliers	224038	23583

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and a grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	175	46% 48% 6%
1	B	175	47% 47% 6%
1	C	175	43% 49% 7% .
1	D	175	42% 49% 10%
1	E	175	46% 47% 7%
1	F	175	44% 49% 7%
1	G	175	47% 50% .
1	H	175	47% 51% .
1	I	175	43% 49% 7%

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Mol	Chain	Length	Quality of chain
1	J	175	 42%50%8%
1	K	175	 46%47%7%
1	L	175	 46%44%10%
1	M	175	 44%48%8%
1	N	175	 45%49%6%
1	O	175	 48%47%5%
1	P	175	 45%54%. .
1	Q	175	 49%50%. .
1	R	175	 50%48%. .
1	S	175	 47%51%. .
1	T	175	 47%49%5%
1	U	175	 44%49%7%
1	V	175	 46%47%7%
1	W	175	 42%53%6%
1	X	175	 44%46%10%. .

2 Ensemble composition and analysis ⓘ

This entry contains 1 models. Identification of well-defined residues and clustering analysis are not possible.

3 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 42144 atoms, of which 8232 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 Alpha-crystallin B chain.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	A	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	B	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	C	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	D	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	E	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	F	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	G	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	H	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	I	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	J	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	K	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	L	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	M	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	N	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	O	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	P	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	Q	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		

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Mol	Chain	Residues	Atoms						AltConf	Trace
1	R	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	S	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	T	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	U	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	V	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	W	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		
1	X	175	Total	C	H	N	O	S	0	
			1756	916	343	236	259	2		

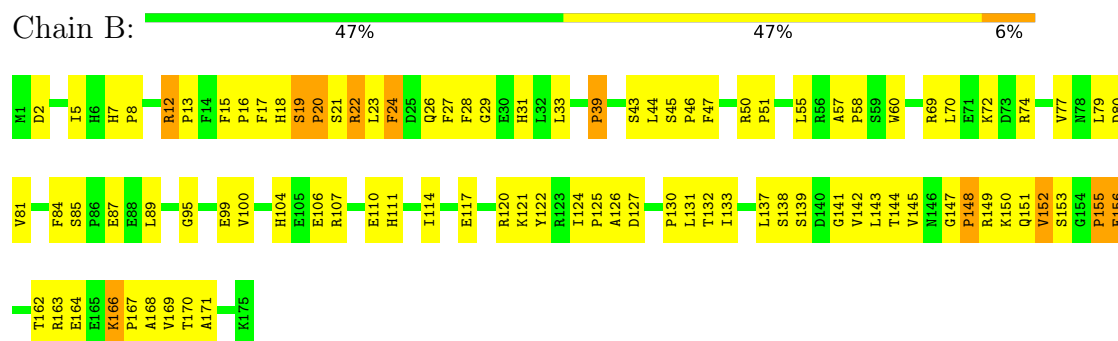
4 Residue-property plots

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-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. Stretches of 2 or more consecutive residues without any outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

• Molecule 1: Alpha-crystallin B chain



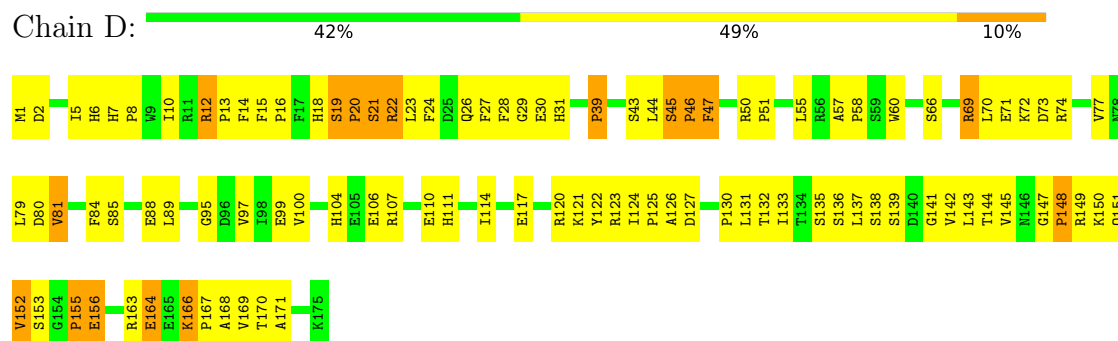
• Molecule 1: Alpha-crystallin B chain



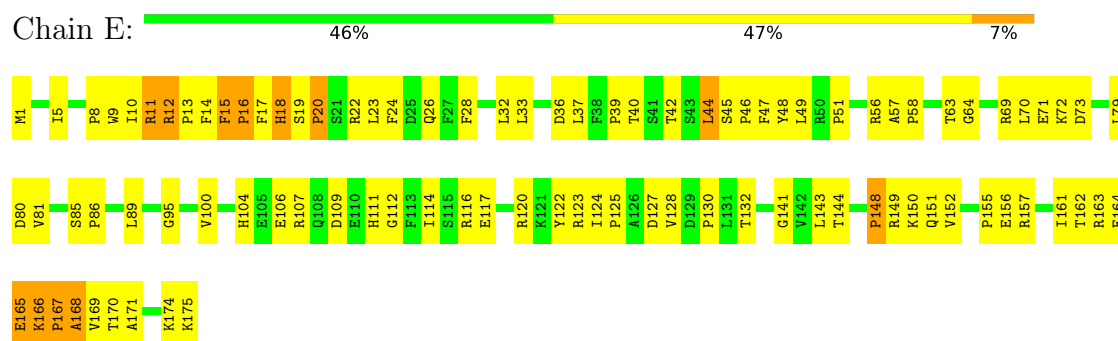
• Molecule 1: Alpha-crystallin B chain



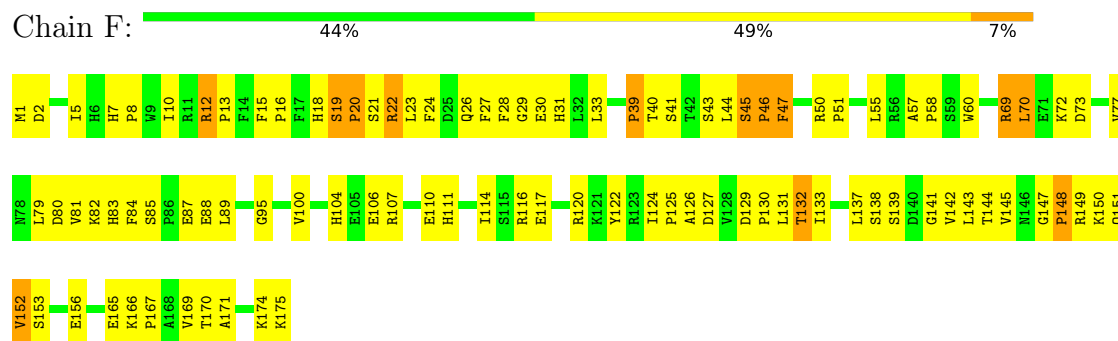
• Molecule 1: Alpha-crystallin B chain



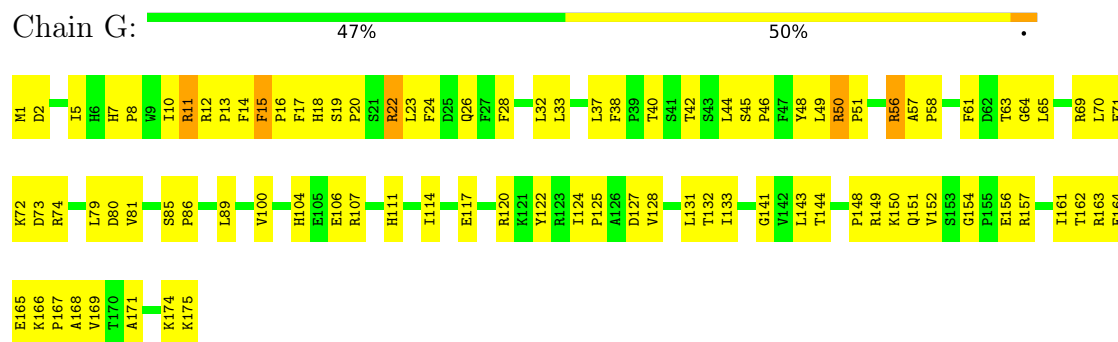
- Molecule 1: Alpha-crystallin B chain



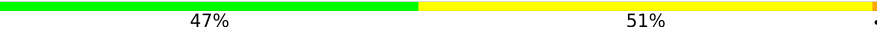
- Molecule 1: Alpha-crystallin B chain

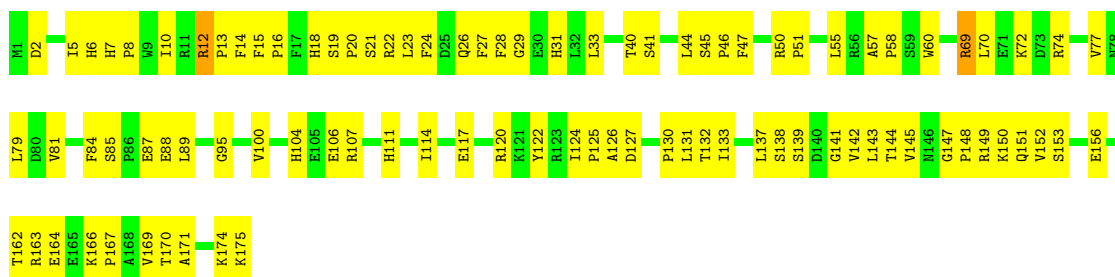


- Molecule 1: Alpha-crystallin B chain

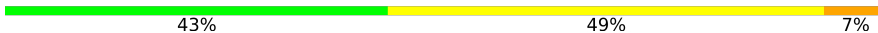


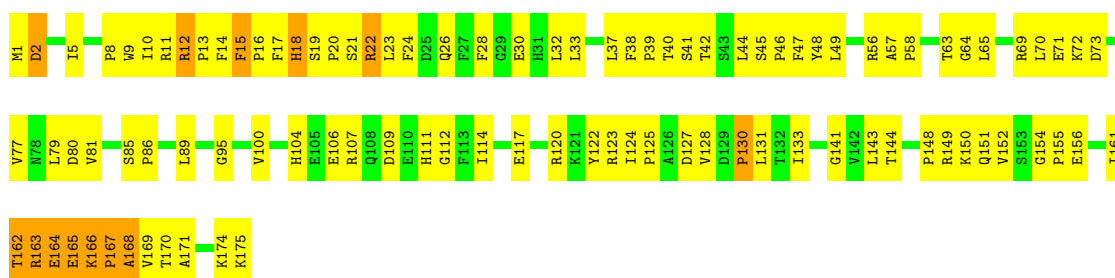
- Molecule 1: Alpha-crystallin B chain

Chain H: 



- Molecule 1: Alpha-crystallin B chain

Chain I: 

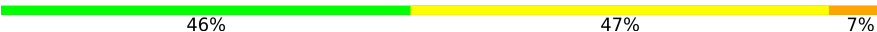


- Molecule 1: Alpha-crystallin B chain

Chain J: 

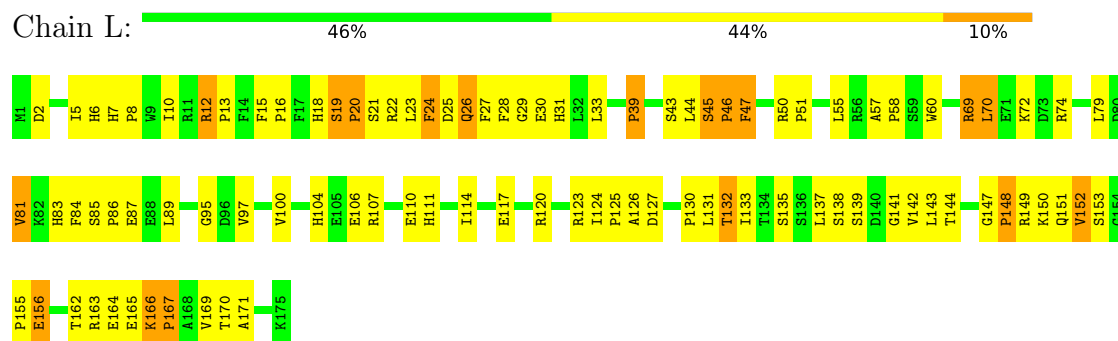


- Molecule 1: Alpha-crystallin B chain

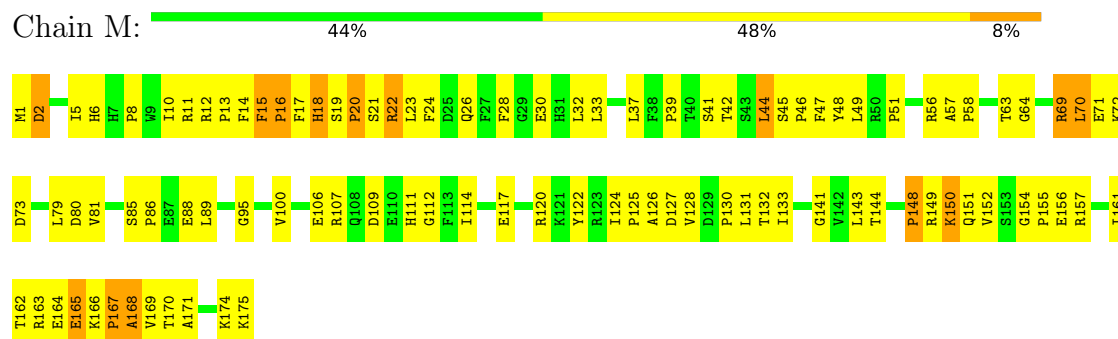
Chain K: 



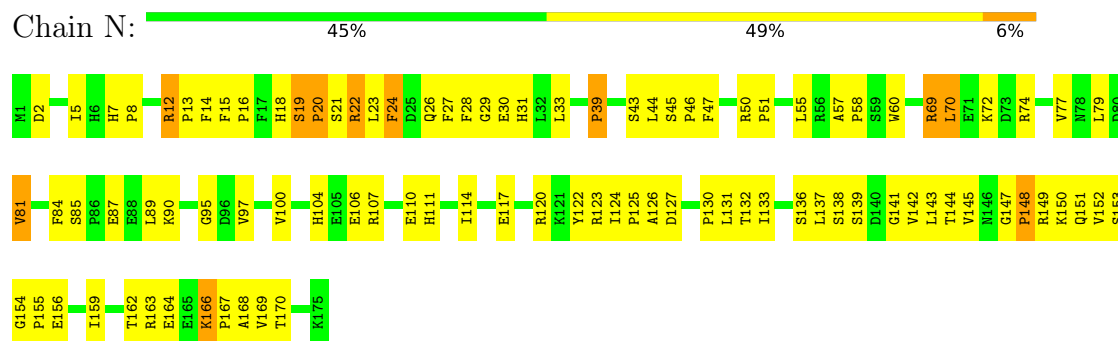
- Molecule 1: Alpha-crystallin B chain



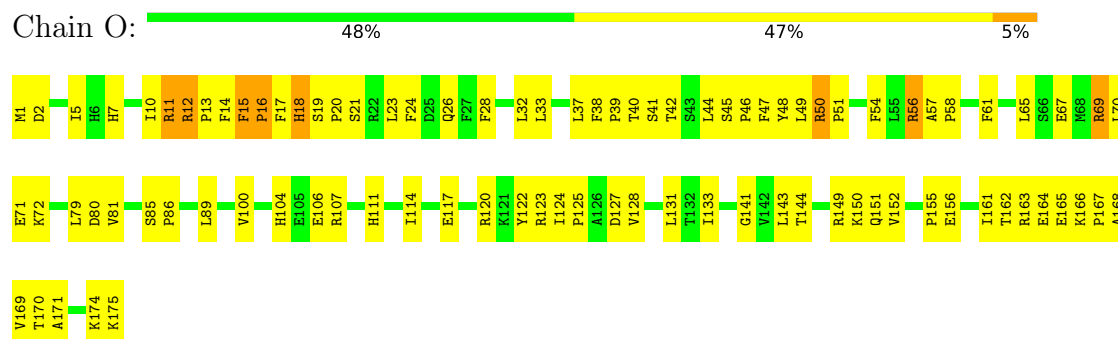
- Molecule 1: Alpha-crystallin B chain



- Molecule 1: Alpha-crystallin B chain



- Molecule 1: Alpha-crystallin B chain



- Molecule 1: Alpha-crystallin B chain



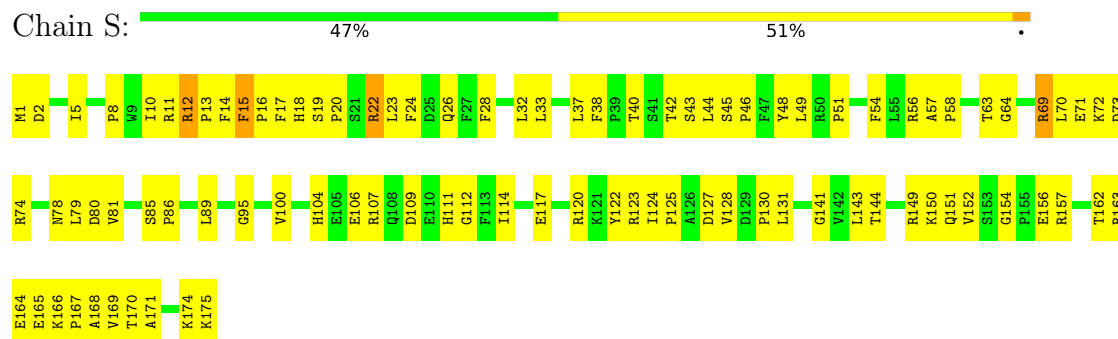
- Molecule 1: Alpha-crystallin B chain



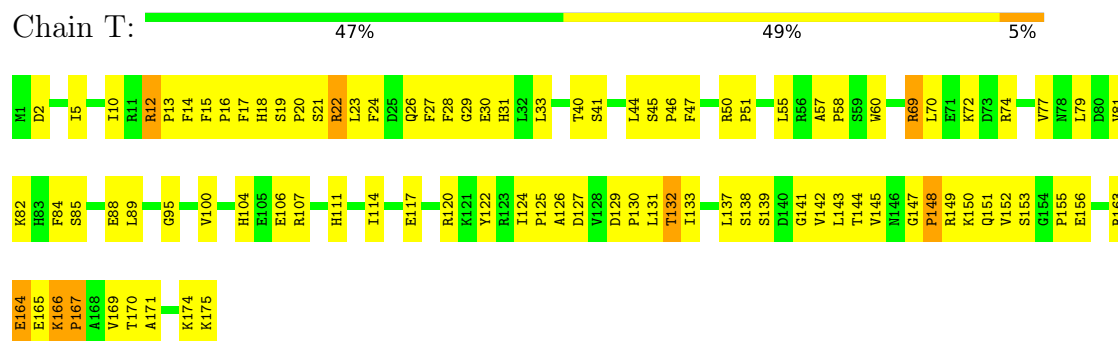
- Molecule 1: Alpha-crystallin B chain



- Molecule 1: Alpha-crystallin B chain



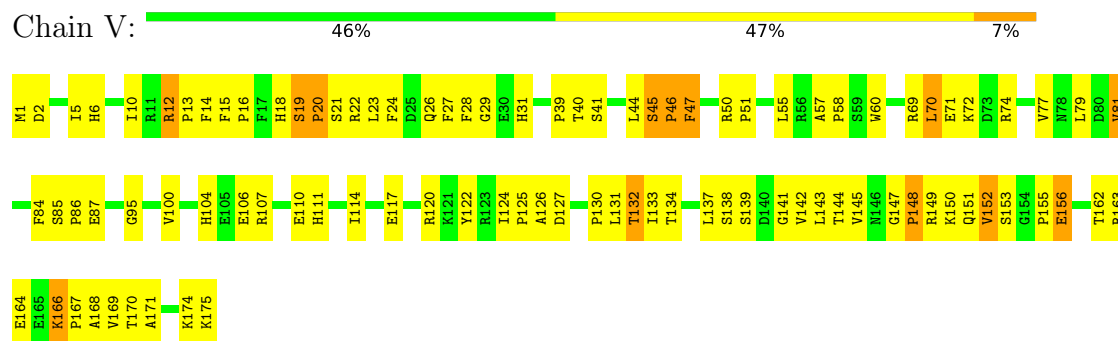
- Molecule 1: Alpha-crystallin B chain



- Molecule 1: Alpha-crystallin B chain



- Molecule 1: Alpha-crystallin B chain



- Molecule 1: Alpha-crystallin B chain



- Molecule 1: Alpha-crystallin B chain

P155 E156	I159	R163 E164 E185	P166 A168 V169	A171	K174 K175	V81	F84 S85 P86	E87 E88 L89	G95 D96 V97	V100	H104 E106 R107	E110 H111	I114	E117	R120 K121	Y122 R123 I124 P125 A126 D127 V128	D129 P130 L131 T132 I133	L137 S138 S139	D140 G141 V142 L143 T144 V145	N146 G147 P148	R149 K150 Q151	V152 G153	V81	F84 S85 P86	E87 E88 L89	G95 D96 V97	V100	H104 E106 R107	E110 H111	I114	E117	R120 K121	Y122 R123 I124 P125 A126 D127 V128	D129 P130 L131 T132 I133	L137 S138 S139	D140 G141 V142 L143 T144 V145	N146 G147 P148	R149 K150 Q151	V152 G153	M1 D2	I5 H6	T10 R11 R12 F14 F15 F17	S19 P20 S21 R22 L23 F24 D25 Q26 F27 G29 E30 H31	P39 T40 S41 T42 S43 L44 S45 P46 F47	R50 P51	L55 R56 A57 P58 S59 W60	R69 L70 K71 E72 D73 R74	V77 N78 L79 S80
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5 Refinement protocol and experimental data overview

The models were refined using the following method: *simulated annealing, molecular dynamics, torsion angle dynamics*.

Of the 200 calculated structures, 1 were deposited, based on the following criterion: *structures with the lowest energy*.

The following table shows the software used for structure solution, optimisation and refinement.

Software name	Classification	Version
X-PLOR NIH	structure solution	
ARIA	structure solution	2.2
ARIA	refinement	2.2
CNS	structure solution	1.2
CNS	refinement	1.2
SOLARIA	structure solution	1

No chemical shift data was provided. Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

6 Model quality ⓘ

6.1 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 (average) 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	A	0.35	0/1458 (0.0%)	0.78	1/1973 (0.1%)
1	B	0.42	0/1458 (0.0%)	0.80	1/1973 (0.1%)
1	C	0.38	0/1458 (0.0%)	0.81	1/1973 (0.1%)
1	D	0.43	0/1458 (0.0%)	0.78	0/1973 (0.0%)
1	E	0.37	0/1458 (0.0%)	0.79	1/1973 (0.1%)
1	F	0.43	0/1458 (0.0%)	0.79	0/1973 (0.0%)
1	G	0.35	0/1458 (0.0%)	0.80	1/1973 (0.1%)
1	H	0.44	0/1458 (0.0%)	0.78	0/1973 (0.0%)
1	I	0.37	0/1458 (0.0%)	0.81	0/1973 (0.0%)
1	J	0.42	0/1458 (0.0%)	0.78	0/1973 (0.0%)
1	K	0.37	0/1458 (0.0%)	0.78	0/1973 (0.0%)
1	L	0.43	0/1458 (0.0%)	0.78	0/1973 (0.0%)
1	M	0.37	0/1458 (0.0%)	0.78	1/1973 (0.1%)
1	N	0.41	0/1458 (0.0%)	0.78	1/1973 (0.1%)
1	O	0.37	0/1458 (0.0%)	0.79	1/1973 (0.1%)
1	P	0.43	0/1458 (0.0%)	0.78	0/1973 (0.0%)
1	Q	0.36	0/1458 (0.0%)	0.79	0/1973 (0.0%)
1	R	0.43	0/1458 (0.0%)	0.80	1/1973 (0.1%)
1	S	0.36	0/1458 (0.0%)	0.78	1/1973 (0.1%)
1	T	0.43	0/1458 (0.0%)	0.78	0/1973 (0.0%)
1	U	0.37	0/1458 (0.0%)	0.77	1/1973 (0.1%)
1	V	0.43	0/1458 (0.0%)	0.77	0/1973 (0.0%)
1	W	0.36	0/1458 (0.0%)	0.79	0/1973 (0.0%)
1	X	0.43	0/1458 (0.0%)	0.78	0/1973 (0.0%)
All	All	0.40	0/34992 (0.0%)	0.79	11/47352 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	Chirality	Planarity
1	A	1	4

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Mol	Chain	Chirality	Planarity
1	B	0	4
1	C	0	2
1	D	0	4
1	E	0	3
1	F	0	4
1	G	1	5
1	H	1	3
1	I	1	3
1	J	0	4
1	K	2	3
1	L	0	3
1	M	0	3
1	N	0	4
1	O	0	5
1	P	0	3
1	Q	2	3
1	R	0	4
1	S	0	4
1	T	0	4
1	U	0	1
1	V	0	3
1	W	2	5
1	X	0	4
All	All	10	85

There are no bond-length outliers.

All angle outliers are listed below. They are sorted according to the Z-score.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	15	PHE	CA-CB-CG	8.06	121.86	113.80
1	E	15	PHE	CA-CB-CG	7.72	121.52	113.80
1	A	15	PHE	CA-CB-CG	7.71	121.51	113.80
1	O	15	PHE	CA-CB-CG	7.20	121.00	113.80
1	S	15	PHE	CA-CB-CG	6.83	120.63	113.80
1	G	15	PHE	CA-CB-CG	6.76	120.56	113.80
1	U	15	PHE	CA-CB-CG	5.95	119.75	113.80
1	B	24	PHE	CA-CB-CG	5.68	119.48	113.80
1	C	167	PRO	N-CA-CB	-5.20	97.79	103.25
1	N	24	PHE	CA-CB-CG	5.18	118.98	113.80
1	R	24	PHE	CA-CB-CG	5.18	118.98	113.80

All chiral outliers are listed below.

Mol	Chain	Res	Type	Atoms
1	A	162	THR	CB
1	G	162	THR	CB
1	H	42	THR	CB
1	I	162	THR	CB
1	K	3	ILE	CB
1	K	162	THR	CB
1	Q	42	THR	CB
1	Q	162	THR	CB
1	W	3	ILE	CB
1	W	162	THR	CB

All planar outliers are listed below.

Mol	Chain	Res	Type	Group
1	A	11	ARG	Sidechain
1	A	22	ARG	Sidechain
1	A	50	ARG	Sidechain
1	A	69	ARG	Sidechain
1	B	12	ARG	Sidechain
1	B	22	ARG	Sidechain
1	B	50	ARG	Sidechain
1	B	69	ARG	Sidechain
1	C	12	ARG	Sidechain
1	C	69	ARG	Sidechain
1	D	12	ARG	Sidechain
1	D	22	ARG	Sidechain
1	D	50	ARG	Sidechain
1	D	69	ARG	Sidechain
1	E	11	ARG	Sidechain
1	E	22	ARG	Sidechain
1	E	69	ARG	Sidechain
1	F	12	ARG	Sidechain
1	F	22	ARG	Sidechain
1	F	50	ARG	Sidechain
1	F	69	ARG	Sidechain
1	G	11	ARG	Sidechain
1	G	22	ARG	Sidechain
1	G	50	ARG	Sidechain
1	G	56	ARG	Sidechain
1	G	69	ARG	Sidechain
1	H	12	ARG	Sidechain
1	H	50	ARG	Sidechain
1	H	69	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	I	12	ARG	Sidechain
1	I	22	ARG	Sidechain
1	I	69	ARG	Sidechain
1	J	12	ARG	Sidechain
1	J	22	ARG	Sidechain
1	J	50	ARG	Sidechain
1	J	69	ARG	Sidechain
1	K	11	ARG	Sidechain
1	K	12	ARG	Sidechain
1	K	22	ARG	Sidechain
1	L	12	ARG	Sidechain
1	L	50	ARG	Sidechain
1	L	69	ARG	Sidechain
1	M	11	ARG	Sidechain
1	M	22	ARG	Sidechain
1	M	69	ARG	Sidechain
1	N	12	ARG	Sidechain
1	N	22	ARG	Sidechain
1	N	50	ARG	Sidechain
1	N	69	ARG	Sidechain
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1	O	69	ARG	Sidechain
1	P	12	ARG	Sidechain
1	P	50	ARG	Sidechain
1	P	69	ARG	Sidechain
1	Q	12	ARG	Sidechain
1	Q	22	ARG	Sidechain
1	Q	69	ARG	Sidechain
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1	R	22	ARG	Sidechain
1	R	50	ARG	Sidechain
1	R	69	ARG	Sidechain
1	S	11	ARG	Sidechain
1	S	12	ARG	Sidechain
1	S	22	ARG	Sidechain
1	S	69	ARG	Sidechain
1	T	12	ARG	Sidechain
1	T	22	ARG	Sidechain
1	T	50	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	T	69	ARG	Sidechain
1	U	50	ARG	Sidechain
1	V	12	ARG	Sidechain
1	V	50	ARG	Sidechain
1	V	69	ARG	Sidechain
1	W	11	ARG	Sidechain
1	W	12	ARG	Sidechain
1	W	22	ARG	Sidechain
1	W	50	ARG	Sidechain
1	W	69	ARG	Sidechain
1	X	12	ARG	Sidechain
1	X	22	ARG	Sidechain
1	X	50	ARG	Sidechain
1	X	69	ARG	Sidechain

6.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in each 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 averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	1413	343	1375	200
1	B	1413	343	1375	105
1	C	1413	343	1375	196
1	D	1413	343	1375	127
1	E	1413	343	1375	206
1	F	1413	343	1375	126
1	G	1413	343	1375	209
1	H	1413	343	1375	127
1	I	1413	343	1375	189
1	J	1413	343	1375	116
1	K	1413	343	1375	195
1	L	1413	343	1375	121
1	M	1413	343	1375	189
1	N	1413	343	1375	111
1	O	1413	343	1375	193
1	P	1413	343	1375	120
1	Q	1413	343	1375	199
1	R	1413	343	1375	120
1	S	1413	343	1375	201

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Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	T	1413	343	1375	107
1	U	1413	343	1375	193
1	V	1413	343	1375	119
1	W	1413	343	1375	204
1	X	1413	343	1375	131
All	All	33912	8232	33000	2606

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 39.

All clashes are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:B:26:GLN:HB2	1:C:163:ARG:HB3	1.09	1.23
1:T:26:GLN:HB2	1:U:163:ARG:HB3	1.04	1.27
1:J:26:GLN:HB3	1:K:163:ARG:HB3	1.03	1.25
1:W:15:PHE:HB3	1:W:16:PRO:HD3	0.98	1.36
1:C:15:PHE:HB3	1:C:16:PRO:CD	0.96	1.90
1:I:15:PHE:HB3	1:I:16:PRO:HD3	0.95	1.36
1:S:79:LEU:HD13	1:S:100:VAL:HB	0.94	1.40
1:K:79:LEU:HD13	1:K:100:VAL:HB	0.94	1.40
1:M:163:ARG:HB3	1:R:26:GLN:HB2	0.93	1.39
1:E:16:PRO:HB3	1:Q:165:GLU:C	0.92	1.89
1:A:79:LEU:HD13	1:A:100:VAL:HB	0.91	1.39
1:N:79:LEU:HD13	1:N:100:VAL:HB	0.90	1.42
1:T:150:LYS:HG3	1:U:152:VAL:HB	0.90	1.40
1:W:79:LEU:HD13	1:W:100:VAL:HB	0.89	1.45
1:H:137:LEU:HD22	1:H:143:LEU:HD23	0.89	1.42
1:O:79:LEU:HD13	1:O:100:VAL:HB	0.89	1.45
1:S:163:ARG:HB3	1:X:26:GLN:HB2	0.88	1.44
1:E:79:LEU:HD13	1:E:100:VAL:HB	0.88	1.45
1:I:79:LEU:HD13	1:I:100:VAL:HB	0.88	1.45
1:H:131:LEU:HD23	1:I:156:GLU:HB2	0.87	1.46
1:L:79:LEU:HD13	1:L:100:VAL:HB	0.87	1.46
1:U:79:LEU:HD13	1:U:100:VAL:HB	0.87	1.45
1:Q:15:PHE:HB2	1:Q:16:PRO:HD3	0.87	1.45
1:M:79:LEU:HD13	1:M:100:VAL:HB	0.86	1.45
1:X:79:LEU:HD13	1:X:100:VAL:HB	0.86	1.46
1:C:79:LEU:HD13	1:C:100:VAL:HB	0.86	1.45
1:G:165:GLU:C	1:M:16:PRO:HB3	0.86	1.95
1:D:79:LEU:HD13	1:D:100:VAL:HB	0.86	1.48
1:G:79:LEU:HD13	1:G:100:VAL:HB	0.86	1.45
1:V:79:LEU:HD13	1:V:100:VAL:HB	0.86	1.47

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:N:138:SER:C	1:O:164:GLU:HB2	0.85	1.95
1:E:16:PRO:HD2	1:Q:167:PRO:HB3	0.85	1.46
1:H:24:PHE:HB3	1:W:18:HIS:CG	0.85	2.05
1:B:164:GLU:HG3	1:B:167:PRO:HD2	0.85	1.48
1:Q:79:LEU:HD13	1:Q:100:VAL:HB	0.85	1.48
1:B:79:LEU:HD13	1:B:100:VAL:HB	0.85	1.48
1:P:79:LEU:HD13	1:P:100:VAL:HB	0.85	1.46
1:D:164:GLU:HG3	1:D:167:PRO:HD2	0.84	1.47
1:V:164:GLU:HG3	1:V:167:PRO:HD2	0.84	1.49
1:P:72:LYS:HB3	1:Q:45:SER:HA	0.84	1.50
1:J:79:LEU:HD13	1:J:100:VAL:HB	0.83	1.46
1:A:15:PHE:HB2	1:K:163:ARG:HA	0.83	1.49
1:F:79:LEU:HD13	1:F:100:VAL:HB	0.83	1.49
1:T:79:LEU:HD13	1:T:100:VAL:HB	0.83	1.48
1:U:15:PHE:HB2	1:U:16:PRO:HD3	0.83	1.50
1:R:79:LEU:HD13	1:R:100:VAL:HB	0.83	1.48
1:C:16:PRO:HG3	1:W:164:GLU:C	0.82	1.99
1:P:23:LEU:HD22	1:Q:162:THR:HB	0.82	1.50
1:V:166:LYS:HB2	1:V:167:PRO:HD3	0.82	1.51
1:M:15:PHE:CD1	1:M:16:PRO:HD3	0.82	2.09
1:H:164:GLU:HG3	1:H:167:PRO:HD2	0.82	1.48
1:N:131:LEU:HD22	1:O:156:GLU:HB2	0.82	1.51
1:H:79:LEU:HD13	1:H:100:VAL:HB	0.82	1.50
1:B:89:LEU:HD21	1:B:137:LEU:HD21	0.82	1.52
1:N:164:GLU:HG3	1:N:167:PRO:HD2	0.82	1.49
1:K:16:PRO:HA	1:N:27:PHE:HB2	0.81	1.52
1:V:72:LYS:HB3	1:W:46:PRO:HD3	0.81	1.51
1:O:12:ARG:HB3	1:O:13:PRO:HD3	0.81	1.52
1:H:24:PHE:HB2	1:W:19:SER:HB2	0.81	1.50
1:B:166:LYS:HB2	1:B:167:PRO:HD3	0.81	1.50
1:N:166:LYS:HB2	1:N:167:PRO:HD3	0.80	1.51
1:F:21:SER:HB2	1:O:14:PHE:HB3	0.80	1.54
1:H:166:LYS:HB2	1:H:167:PRO:HD3	0.80	1.51
1:L:79:LEU:HB2	1:L:143:LEU:HB3	0.80	1.54
1:C:15:PHE:HB3	1:C:16:PRO:HD3	0.80	1.50
1:T:131:LEU:HD23	1:U:156:GLU:HB2	0.80	1.53
1:E:15:PHE:HD1	1:E:16:PRO:HD3	0.80	1.37
1:A:15:PHE:CD2	1:A:16:PRO:HD3	0.79	2.11
1:E:15:PHE:HB2	1:Q:163:ARG:HA	0.79	1.54
1:M:165:GLU:C	1:S:16:PRO:HB3	0.79	2.02
1:E:17:PHE:N	1:Q:167:PRO:HG3	0.79	1.92
1:I:15:PHE:CB	1:I:16:PRO:HD3	0.79	2.06

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:Q:15:PHE:HB3	1:U:163:ARG:HG2	0.79	1.53
1:A:16:PRO:HB3	1:K:165:GLU:C	0.79	2.02
1:A:156:GLU:HB2	1:F:131:LEU:HD23	0.79	1.54
1:G:167:PRO:HB3	1:M:16:PRO:HD2	0.79	1.53
1:A:14:PHE:HB3	1:J:21:SER:HB2	0.78	1.55
1:C:17:PHE:HB2	1:W:167:PRO:HG2	0.78	1.55
1:B:18:HIS:C	1:B:20:PRO:HD3	0.78	2.02
1:D:79:LEU:HB2	1:D:143:LEU:HB3	0.78	1.54
1:M:15:PHE:HD1	1:M:16:PRO:HD3	0.78	1.38
1:R:79:LEU:HB2	1:R:143:LEU:HB3	0.78	1.55
1:E:15:PHE:CD1	1:E:16:PRO:HD3	0.78	2.14
1:K:16:PRO:HD2	1:O:167:PRO:HB3	0.78	1.56
1:B:79:LEU:HB2	1:B:143:LEU:HB3	0.77	1.55
1:D:27:PHE:HB3	1:E:163:ARG:CZ	0.77	2.09
1:M:163:ARG:HA	1:S:15:PHE:HB2	0.77	1.57
1:C:169:VAL:HG22	1:I:13:PRO:HB2	0.77	1.55
1:V:27:PHE:HB3	1:W:163:ARG:CZ	0.77	2.09
1:D:26:GLN:H	1:E:163:ARG:HG2	0.77	1.37
1:A:163:ARG:HB3	1:F:26:GLN:HB2	0.76	1.55
1:G:16:PRO:HB3	1:S:165:GLU:C	0.76	2.06
1:G:156:GLU:HB2	1:L:131:LEU:HD23	0.76	1.55
1:O:79:LEU:HB2	1:O:143:LEU:HB3	0.76	1.56
1:P:79:LEU:HB2	1:P:143:LEU:HB3	0.76	1.56
1:Q:12:ARG:HB3	1:Q:13:PRO:HD3	0.76	1.57
1:B:27:PHE:N	1:C:163:ARG:HD2	0.76	1.95
1:M:156:GLU:HB2	1:R:131:LEU:HD23	0.76	1.56
1:P:131:LEU:HD23	1:Q:156:GLU:HB2	0.76	1.58
1:J:131:LEU:HD23	1:K:156:GLU:HB2	0.76	1.57
1:G:79:LEU:HB2	1:G:143:LEU:HB3	0.76	1.58
1:G:163:ARG:HB3	1:L:26:GLN:HB2	0.76	1.54
1:S:156:GLU:HB2	1:X:131:LEU:HD23	0.76	1.58
1:O:15:PHE:CD1	1:O:16:PRO:HD3	0.76	2.16
1:B:131:LEU:HD22	1:C:156:GLU:HB2	0.76	1.57
1:J:26:GLN:CB	1:K:163:ARG:HB3	0.75	2.07
1:X:166:LYS:HB2	1:X:167:PRO:HD3	0.75	1.58
1:T:79:LEU:HB2	1:T:143:LEU:HB3	0.75	1.57
1:F:79:LEU:HB2	1:F:143:LEU:HB3	0.75	1.57
1:K:13:PRO:O	1:O:167:PRO:HB2	0.75	1.81
1:U:79:LEU:HB2	1:U:143:LEU:HB3	0.75	1.56
1:V:131:LEU:HD23	1:W:156:GLU:HB2	0.75	1.59
1:W:79:LEU:HB2	1:W:143:LEU:HB3	0.75	1.58
1:C:16:PRO:HB2	1:W:165:GLU:HA	0.74	1.58

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:E:18:HIS:HB3	1:Q:163:ARG:CZ	0.74	2.12
1:I:167:PRO:HB2	1:W:13:PRO:O	0.74	1.82
1:R:21:SER:HB2	1:S:14:PHE:HB3	0.74	1.58
1:I:15:PHE:HB3	1:I:16:PRO:CD	0.74	2.13
1:I:79:LEU:HB2	1:I:143:LEU:HB3	0.74	1.57
1:V:27:PHE:N	1:W:163:ARG:HG2	0.74	1.96
1:C:79:LEU:HB2	1:C:143:LEU:HB3	0.74	1.58
1:D:72:LYS:HB3	1:E:45:SER:HA	0.74	1.60
1:M:45:SER:HA	1:R:72:LYS:HB2	0.74	1.60
1:B:19:SER:N	1:B:20:PRO:HD3	0.74	1.98
1:B:21:SER:HB2	1:I:14:PHE:HB3	0.73	1.59
1:J:79:LEU:HB2	1:J:143:LEU:HB3	0.73	1.58
1:Q:79:LEU:HB2	1:Q:143:LEU:HB3	0.73	1.58
1:V:26:GLN:HB3	1:W:163:ARG:HB3	0.73	1.60
1:E:18:HIS:CE1	1:P:20:PRO:HB2	0.73	2.19
1:N:138:SER:HB2	1:N:142:VAL:HB	0.73	1.58
1:O:165:GLU:HB3	1:O:166:LYS:HD3	0.73	1.59
1:H:138:SER:HB2	1:H:142:VAL:HB	0.73	1.59
1:D:131:LEU:HD23	1:E:156:GLU:HB2	0.72	1.61
1:P:27:PHE:N	1:Q:163:ARG:HG2	0.72	1.99
1:G:163:ARG:HG2	1:L:27:PHE:N	0.72	1.98
1:M:46:PRO:HD3	1:R:72:LYS:CB	0.72	2.14
1:I:164:GLU:C	1:W:16:PRO:HB3	0.72	2.10
1:P:22:ARG:HG3	1:P:23:LEU:HD12	0.72	1.58
1:V:26:GLN:HB3	1:W:163:ARG:CB	0.72	2.15
1:G:15:PHE:HB3	1:X:23:LEU:HB2	0.72	1.61
1:Q:16:PRO:HB3	1:U:165:GLU:C	0.72	2.08
1:X:79:LEU:HB2	1:X:143:LEU:HB3	0.72	1.59
1:G:164:GLU:HB2	1:L:138:SER:C	0.72	2.10
1:M:163:ARG:HD2	1:R:27:PHE:N	0.72	1.99
1:E:163:ARG:HA	1:U:15:PHE:HB2	0.72	1.62
1:J:27:PHE:N	1:K:163:ARG:HD2	0.72	2.00
1:N:79:LEU:HB2	1:N:143:LEU:HB3	0.72	1.59
1:Q:165:GLU:O	1:Q:166:LYS:HG2	0.72	1.84
1:J:72:LYS:HB3	1:K:45:SER:HA	0.71	1.61
1:D:166:LYS:HB2	1:D:167:PRO:HD3	0.71	1.60
1:E:15:PHE:O	1:Q:163:ARG:HD2	0.71	1.85
1:H:26:GLN:HB2	1:I:163:ARG:HB3	0.71	1.61
1:M:165:GLU:O	1:R:139:SER:HB2	0.71	1.85
1:C:19:SER:N	1:C:20:PRO:HD3	0.71	1.99
1:E:164:GLU:H	1:U:16:PRO:HG3	0.71	1.44
1:C:13:PRO:O	1:W:167:PRO:HB2	0.71	1.85

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:Q:18:HIS:ND1	1:T:20:PRO:HB2	0.71	2.01
1:M:163:ARG:HB3	1:R:26:GLN:CB	0.70	2.16
1:M:165:GLU:HG3	1:R:27:PHE:HD1	0.70	1.45
1:A:17:PHE:CD2	1:K:167:PRO:HD2	0.70	2.22
1:C:167:PRO:HB2	1:I:13:PRO:O	0.70	1.87
1:M:79:LEU:HB2	1:M:143:LEU:HB3	0.70	1.63
1:H:21:SER:HB2	1:W:14:PHE:HB3	0.70	1.63
1:P:27:PHE:HB3	1:Q:163:ARG:CZ	0.70	2.17
1:S:12:ARG:HB2	1:S:13:PRO:HD3	0.70	1.64
1:A:164:GLU:H	1:O:16:PRO:HG3	0.70	1.45
1:B:150:LYS:HG2	1:C:152:VAL:HB	0.70	1.64
1:U:166:LYS:HB2	1:U:167:PRO:HD3	0.70	1.63
1:A:15:PHE:HB3	1:J:23:LEU:HB2	0.69	1.62
1:A:167:PRO:HB3	1:O:16:PRO:HD2	0.69	1.63
1:E:16:PRO:CD	1:Q:167:PRO:HB3	0.69	2.16
1:H:79:LEU:HB2	1:H:143:LEU:HB3	0.69	1.64
1:K:17:PHE:CD2	1:O:167:PRO:HD2	0.69	2.21
1:A:162:THR:OG1	1:F:23:LEU:HD22	0.69	1.87
1:G:164:GLU:H	1:M:16:PRO:HG3	0.69	1.46
1:U:12:ARG:HB2	1:U:13:PRO:HD3	0.69	1.62
1:A:19:SER:N	1:A:20:PRO:HD3	0.69	2.02
1:D:72:LYS:NZ	1:E:46:PRO:HD2	0.69	2.02
1:E:165:GLU:C	1:U:16:PRO:HB3	0.69	2.12
1:M:163:ARG:CB	1:R:26:GLN:HB2	0.69	2.16
1:O:15:PHE:HD1	1:O:16:PRO:HD3	0.69	1.44
1:J:138:SER:C	1:K:164:GLU:HB3	0.69	2.12
1:G:163:ARG:NE	1:L:27:PHE:HB3	0.69	2.03
1:R:89:LEU:HD21	1:R:137:LEU:HD21	0.69	1.65
1:H:23:LEU:HD22	1:H:23:LEU:N	0.69	2.01
1:U:19:SER:N	1:U:20:PRO:HD3	0.69	2.02
1:A:165:GLU:C	1:O:16:PRO:HB3	0.69	2.12
1:C:15:PHE:CE1	1:V:23:LEU:HB2	0.69	2.22
1:M:164:GLU:H	1:S:16:PRO:HG3	0.69	1.47
1:K:19:SER:N	1:K:20:PRO:HD3	0.69	2.02
1:W:19:SER:N	1:W:20:PRO:HD3	0.69	2.02
1:X:164:GLU:HG3	1:X:167:PRO:HD2	0.69	1.64
1:D:27:PHE:HD1	1:E:165:GLU:HG3	0.68	1.46
1:K:12:ARG:HB3	1:K:13:PRO:HD3	0.68	1.64
1:D:139:SER:N	1:E:164:GLU:HB2	0.68	2.04
1:H:26:GLN:H	1:I:163:ARG:HD3	0.68	1.47
1:J:27:PHE:HB3	1:K:163:ARG:CZ	0.68	2.18
1:G:12:ARG:HB2	1:G:13:PRO:HD3	0.68	1.65

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:M:167:PRO:HD2	1:S:17:PHE:CD2	0.68	2.23
1:E:79:LEU:HB2	1:E:143:LEU:HB3	0.68	1.63
1:G:17:PHE:N	1:S:167:PRO:HG3	0.68	2.03
1:H:21:SER:HB2	1:W:14:PHE:C	0.68	2.14
1:H:26:GLN:HB2	1:I:163:ARG:CB	0.68	2.18
1:L:21:SER:HB2	1:M:14:PHE:HB3	0.68	1.63
1:C:167:PRO:CB	1:I:16:PRO:HD2	0.68	2.19
1:D:73:ASP:N	1:E:46:PRO:HD3	0.68	2.04
1:B:72:LYS:HD2	1:C:45:SER:HA	0.68	1.65
1:C:164:GLU:C	1:I:16:PRO:HB3	0.68	2.13
1:J:27:PHE:H	1:K:163:ARG:HD2	0.68	1.48
1:S:19:SER:N	1:S:20:PRO:HD3	0.68	2.03
1:S:165:GLU:O	1:X:139:SER:HB2	0.68	1.89
1:K:15:PHE:HB3	1:K:16:PRO:HD3	0.68	1.66
1:T:23:LEU:O	1:U:163:ARG:HG3	0.68	1.89
1:W:15:PHE:HB3	1:W:16:PRO:CD	0.67	2.17
1:E:1:MET:HB2	1:Q:174:LYS:HG2	0.67	1.66
1:K:15:PHE:CE1	1:O:162:THR:HB	0.67	2.25
1:K:117:GLU:HB3	1:L:117:GLU:HB3	0.67	1.64
1:S:165:GLU:HG3	1:X:27:PHE:HD1	0.67	1.48
1:C:165:GLU:N	1:I:16:PRO:HB3	0.67	2.03
1:T:27:PHE:N	1:U:163:ARG:HD2	0.67	2.03
1:A:1:MET:HB3	1:C:175:LYS:OXT	0.67	1.90
1:G:16:PRO:HD2	1:S:167:PRO:HB3	0.67	1.66
1:I:167:PRO:HG2	1:W:17:PHE:HB2	0.67	1.65
1:M:19:SER:N	1:M:20:PRO:HD3	0.67	2.04
1:G:19:SER:N	1:G:20:PRO:HD3	0.67	2.05
1:A:16:PRO:HD2	1:K:167:PRO:HB3	0.67	1.66
1:C:162:THR:HB	1:I:15:PHE:CE1	0.67	2.25
1:E:124:ILE:HB	1:E:127:ASP:HB2	0.67	1.67
1:N:26:GLN:HB2	1:O:163:ARG:HB3	0.67	1.66
1:S:1:MET:HB2	1:U:175:LYS:C	0.67	2.14
1:G:162:THR:OG1	1:L:23:LEU:HG	0.67	1.90
1:B:21:SER:HB3	1:I:18:HIS:CG	0.66	2.25
1:E:167:PRO:HD2	1:U:17:PHE:CD2	0.66	2.25
1:H:22:ARG:N	1:W:11:ARG:HB3	0.66	2.05
1:T:72:LYS:HA	1:U:46:PRO:HD3	0.66	1.66
1:A:167:PRO:HG2	1:O:17:PHE:HB2	0.66	1.67
1:C:165:GLU:O	1:C:166:LYS:HB2	0.66	1.91
1:A:117:GLU:HB3	1:B:117:GLU:HB3	0.66	1.66
1:V:137:LEU:HB3	1:W:164:GLU:OE1	0.66	1.89
1:C:18:HIS:HB2	1:V:21:SER:OG	0.66	1.90

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:G:163:ARG:HB3	1:L:26:GLN:CB	0.66	2.20
1:H:27:PHE:HB3	1:I:163:ARG:CZ	0.66	2.21
1:J:23:LEU:HB3	1:K:163:ARG:HG2	0.66	1.67
1:R:23:LEU:HB2	1:S:15:PHE:HB3	0.66	1.66
1:N:72:LYS:HD2	1:O:45:SER:HA	0.66	1.67
1:K:18:HIS:HB3	1:O:163:ARG:CZ	0.66	2.21
1:I:166:LYS:HG2	1:W:54:PHE:CG	0.66	2.26
1:E:19:SER:N	1:E:20:PRO:HD3	0.65	2.05
1:G:15:PHE:CE1	1:X:23:LEU:HD23	0.65	2.26
1:T:139:SER:N	1:U:164:GLU:HB2	0.65	2.06
1:E:167:PRO:HB2	1:U:13:PRO:C	0.65	2.17
1:M:167:PRO:HG3	1:S:17:PHE:N	0.65	2.07
1:G:17:PHE:HB2	1:S:167:PRO:HG2	0.65	1.67
1:W:15:PHE:CB	1:W:16:PRO:HD3	0.65	2.17
1:E:167:PRO:HB3	1:U:16:PRO:HD2	0.65	1.67
1:A:167:PRO:HG3	1:O:17:PHE:N	0.65	2.06
1:T:138:SER:C	1:U:164:GLU:HB2	0.65	2.17
1:U:166:LYS:HB2	1:U:167:PRO:CD	0.65	2.22
1:L:23:LEU:HB2	1:M:15:PHE:HB3	0.65	1.69
1:M:12:ARG:HB2	1:M:13:PRO:HD3	0.65	1.67
1:A:15:PHE:HD2	1:A:16:PRO:HD3	0.65	1.50
1:D:27:PHE:HB3	1:E:163:ARG:NE	0.65	2.07
1:G:132:THR:HG21	1:G:148:PRO:HG2	0.65	1.68
1:J:74:ARG:HG3	1:K:45:SER:O	0.65	1.92
1:M:46:PRO:HD3	1:R:72:LYS:HB2	0.65	1.69
1:H:72:LYS:HB3	1:I:45:SER:HA	0.65	1.69
1:I:73:ASP:O	1:I:149:ARG:HD3	0.65	1.92
1:S:163:ARG:HD3	1:X:26:GLN:N	0.65	2.07
1:A:167:PRO:HB2	1:O:13:PRO:O	0.64	1.92
1:C:13:PRO:O	1:W:168:ALA:N	0.64	2.30
1:G:163:ARG:HD3	1:L:23:LEU:O	0.64	1.92
1:W:12:ARG:HB2	1:W:13:PRO:HD3	0.64	1.67
1:A:165:GLU:HG3	1:F:27:PHE:HD1	0.64	1.51
1:L:166:LYS:HB2	1:L:167:PRO:HD3	0.64	1.68
1:O:1:MET:H3	1:Q:175:LYS:N	0.64	1.90
1:T:72:LYS:HB3	1:U:44:LEU:C	0.64	2.18
1:H:21:SER:HB3	1:W:18:HIS:HB2	0.64	1.69
1:J:166:LYS:HB2	1:J:167:PRO:HD3	0.64	1.68
1:O:19:SER:N	1:O:20:PRO:HD3	0.64	2.06
1:B:26:GLN:HB2	1:C:163:ARG:CB	0.64	2.12
1:H:72:LYS:HE3	1:I:48:TYR:CG	0.64	2.26
1:L:89:LEU:HD21	1:L:137:LEU:HD21	0.64	1.69

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:E:12:ARG:HB2	1:E:13:PRO:HD3	0.64	1.69
1:E:15:PHE:HB2	1:Q:163:ARG:CA	0.64	2.22
1:D:27:PHE:CD1	1:E:165:GLU:HG3	0.64	2.28
1:F:166:LYS:HB2	1:F:167:PRO:HD3	0.64	1.70
1:P:137:LEU:O	1:Q:164:GLU:HB3	0.64	1.93
1:K:11:ARG:HB3	1:N:22:ARG:N	0.64	2.08
1:C:1:MET:H3	1:E:175:LYS:N	0.64	1.91
1:G:167:PRO:HD2	1:M:17:PHE:CD2	0.64	2.28
1:K:13:PRO:O	1:O:168:ALA:N	0.64	2.31
1:R:166:LYS:HB2	1:R:167:PRO:HD3	0.64	1.69
1:I:1:MET:H3	1:K:175:LYS:N	0.64	1.90
1:I:19:SER:N	1:I:20:PRO:HD3	0.64	2.08
1:K:45:SER:HB2	1:K:48:TYR:HB2	0.64	1.69
1:N:72:LYS:HA	1:O:46:PRO:HD3	0.63	1.67
1:G:167:PRO:HB2	1:M:13:PRO:C	0.63	2.18
1:M:175:LYS:N	1:Q:1:MET:N	0.63	2.46
1:D:39:PRO:HB3	1:D:43:SER:HA	0.63	1.69
1:G:167:PRO:HB3	1:M:16:PRO:CD	0.63	2.23
1:K:15:PHE:HB3	1:K:16:PRO:CD	0.63	2.23
1:M:167:PRO:HB3	1:S:16:PRO:HD2	0.63	1.68
1:G:45:SER:HA	1:L:72:LYS:HD2	0.63	1.67
1:H:143:LEU:HD13	1:H:144:THR:N	0.63	2.08
1:V:27:PHE:H	1:W:163:ARG:HE	0.63	1.36
1:G:14:PHE:HB3	1:X:21:SER:HB2	0.63	1.70
1:P:166:LYS:HB2	1:P:167:PRO:HD3	0.63	1.70
1:A:12:ARG:HB2	1:A:13:PRO:HD3	0.63	1.70
1:I:165:GLU:N	1:W:16:PRO:HB3	0.63	2.08
1:Q:14:PHE:HB3	1:T:21:SER:CB	0.63	2.24
1:Q:19:SER:N	1:Q:20:PRO:HD3	0.63	2.08
1:E:15:PHE:CD2	1:P:23:LEU:HD13	0.63	2.29
1:I:117:GLU:HB3	1:J:117:GLU:HB3	0.63	1.70
1:S:163:ARG:HD3	1:X:26:GLN:H	0.63	1.53
1:S:164:GLU:HB2	1:X:138:SER:C	0.63	2.18
1:E:19:SER:OG	1:P:28:PHE:HB2	0.62	1.93
1:H:139:SER:HA	1:I:164:GLU:HB3	0.62	1.70
1:M:1:MET:HB3	1:O:175:LYS:OXT	0.62	1.94
1:P:139:SER:HB2	1:Q:164:GLU:O	0.62	1.94
1:V:138:SER:O	1:W:164:GLU:HB3	0.62	1.94
1:L:39:PRO:HB3	1:L:43:SER:HA	0.62	1.69
1:C:12:ARG:HB3	1:C:13:PRO:HD3	0.62	1.71
1:E:167:PRO:CD	1:U:16:PRO:HB2	0.62	2.25
1:N:84:PHE:HB3	1:N:139:SER:O	0.62	1.95

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:A:165:GLU:N	1:O:16:PRO:HB3	0.62	2.09
1:E:174:LYS:HG3	1:W:174:LYS:HD3	0.62	1.70
1:V:72:LYS:HE2	1:W:44:LEU:O	0.62	1.94
1:E:13:PRO:O	1:Q:167:PRO:HB2	0.62	1.95
1:E:18:HIS:CD2	1:P:21:SER:HB3	0.62	2.30
1:G:16:PRO:HG3	1:S:164:GLU:H	0.62	1.53
1:C:167:PRO:HG2	1:I:17:PHE:HB2	0.62	1.71
1:K:12:ARG:NH2	1:N:87:GLU:HB2	0.62	2.10
1:M:165:GLU:HG3	1:R:27:PHE:CD1	0.62	2.30
1:V:138:SER:HB2	1:V:142:VAL:HB	0.62	1.71
1:V:22:ARG:HG3	1:V:23:LEU:CD1	0.62	2.24
1:I:12:ARG:O	1:I:15:PHE:HB2	0.62	1.95
1:S:15:PHE:CD2	1:S:16:PRO:HD3	0.62	2.29
1:U:117:GLU:HB3	1:V:117:GLU:HB3	0.62	1.71
1:A:1:MET:H3	1:C:175:LYS:HB3	0.62	1.53
1:A:48:TYR:CG	1:F:72:LYS:HE3	0.62	2.29
1:C:12:ARG:O	1:C:15:PHE:HB2	0.62	1.95
1:K:14:PHE:HB3	1:N:21:SER:HB2	0.62	1.72
1:M:117:GLU:HB3	1:N:117:GLU:HB3	0.62	1.72
1:M:161:ILE:HG22	1:M:162:THR:H	0.62	1.55
1:A:163:ARG:HD3	1:F:26:GLN:N	0.61	2.09
1:C:164:GLU:N	1:I:16:PRO:HG3	0.61	2.09
1:K:15:PHE:HB3	1:O:163:ARG:HA	0.61	1.72
1:O:23:LEU:HG	1:O:26:GLN:HB3	0.61	1.71
1:Q:73:ASP:O	1:Q:149:ARG:HD3	0.61	1.94
1:S:117:GLU:HB3	1:T:117:GLU:HB3	0.61	1.70
1:C:17:PHE:CD2	1:W:167:PRO:HD2	0.61	2.30
1:D:2:ASP:HB3	1:D:5:ILE:HB	0.61	1.73
1:H:23:LEU:HB2	1:W:15:PHE:CE1	0.61	2.29
1:A:45:SER:HA	1:F:72:LYS:HB3	0.61	1.70
1:Q:14:PHE:HA	1:U:168:ALA:HA	0.61	1.72
1:T:164:GLU:HG3	1:T:167:PRO:HD2	0.61	1.71
1:A:165:GLU:O	1:F:139:SER:HB2	0.61	1.95
1:A:174:LYS:HZ1	1:Q:174:LYS:HD2	0.61	1.54
1:C:163:ARG:HD3	1:I:16:PRO:HA	0.61	1.73
1:C:169:VAL:HG12	1:C:170:THR:H	0.61	1.54
1:M:23:LEU:HG	1:M:26:GLN:HB3	0.61	1.73
1:N:100:VAL:HG12	1:N:120:ARG:HB2	0.61	1.71
1:N:143:LEU:HD13	1:N:144:THR:N	0.61	2.11
1:Q:117:GLU:HB3	1:R:117:GLU:HB3	0.61	1.72
1:W:73:ASP:O	1:W:149:ARG:HD3	0.61	1.95
1:D:24:PHE:HB3	1:U:18:HIS:CD2	0.61	2.31

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:E:163:ARG:HD3	1:U:15:PHE:HB3	0.61	1.71
1:E:168:ALA:N	1:U:13:PRO:O	0.61	2.34
1:V:72:LYS:HB3	1:W:45:SER:HA	0.61	1.71
1:M:69:ARG:HG2	1:M:70:LEU:H	0.61	1.56
1:Q:23:LEU:HG	1:Q:26:GLN:HB3	0.61	1.73
1:U:161:ILE:HG22	1:U:162:THR:H	0.61	1.55
1:A:152:VAL:HB	1:F:150:LYS:HG2	0.61	1.71
1:G:1:MET:HB3	1:I:175:LYS:OXT	0.61	1.95
1:G:171:ALA:HB2	1:M:10:ILE:HD13	0.61	1.71
1:I:72:LYS:HB3	1:I:149:ARG:CZ	0.61	2.26
1:A:16:PRO:HB3	1:K:165:GLU:CA	0.61	2.26
1:G:165:GLU:O	1:G:166:LYS:HG2	0.61	1.95
1:K:107:ARG:HB2	1:K:114:ILE:HB	0.61	1.72
1:O:117:GLU:HB3	1:P:117:GLU:HB3	0.61	1.72
1:A:10:ILE:O	1:K:169:VAL:HG21	0.61	1.96
1:K:17:PHE:HB2	1:O:167:PRO:HG2	0.61	1.72
1:M:167:PRO:HB2	1:S:13:PRO:O	0.61	1.96
1:B:22:ARG:C	1:B:23:LEU:HD22	0.60	2.20
1:F:143:LEU:HD13	1:F:144:THR:N	0.60	2.11
1:F:150:LYS:NZ	1:F:151:GLN:HE21	0.60	1.94
1:G:23:LEU:HG	1:G:26:GLN:HB3	0.60	1.71
1:E:174:LYS:HG2	1:U:1:MET:HB2	0.60	1.73
1:G:161:ILE:O	1:G:162:THR:HB	0.60	1.96
1:P:72:LYS:O	1:Q:44:LEU:HB3	0.60	1.95
1:G:107:ARG:HB2	1:G:114:ILE:HB	0.60	1.73
1:G:175:LYS:N	1:K:1:MET:N	0.60	2.49
1:I:23:LEU:HG	1:I:26:GLN:HB3	0.60	1.73
1:P:107:ARG:HB2	1:P:114:ILE:HB	0.60	1.73
1:Q:16:PRO:HG2	1:U:167:PRO:HB2	0.60	1.73
1:G:13:PRO:O	1:S:168:ALA:N	0.60	2.35
1:G:163:ARG:HA	1:M:15:PHE:HB2	0.60	1.73
1:D:138:SER:C	1:E:164:GLU:HB2	0.60	2.21
1:T:143:LEU:HD13	1:T:144:THR:N	0.60	2.11
1:C:107:ARG:HB2	1:C:114:ILE:HB	0.60	1.74
1:E:164:GLU:N	1:U:16:PRO:HG3	0.60	2.11
1:F:107:ARG:HB2	1:F:114:ILE:HB	0.60	1.74
1:I:165:GLU:CA	1:W:16:PRO:HB3	0.60	2.27
1:Q:17:PHE:CD2	1:U:168:ALA:HB2	0.60	2.30
1:R:107:ARG:HB2	1:R:114:ILE:HB	0.60	1.73
1:U:15:PHE:HB2	1:U:16:PRO:CD	0.60	2.25
1:X:143:LEU:HD13	1:X:144:THR:N	0.60	2.11
1:A:124:ILE:HB	1:A:127:ASP:HB2	0.60	1.73

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:C:12:ARG:HH12	1:V:87:GLU:HB2	0.60	1.57
1:D:137:LEU:O	1:E:164:GLU:HB3	0.60	1.97
1:G:13:PRO:C	1:S:167:PRO:HB2	0.60	2.22
1:G:18:HIS:CE1	1:X:20:PRO:HB2	0.60	2.30
1:H:84:PHE:HB3	1:H:139:SER:O	0.60	1.96
1:Q:107:ARG:HB2	1:Q:114:ILE:HB	0.60	1.74
1:S:23:LEU:HG	1:S:26:GLN:HB3	0.60	1.74
1:D:26:GLN:N	1:E:163:ARG:HG2	0.60	2.09
1:G:14:PHE:HB3	1:X:21:SER:CB	0.60	2.26
1:J:107:ARG:HB2	1:J:114:ILE:HB	0.60	1.74
1:S:107:ARG:HB2	1:S:114:ILE:HB	0.60	1.74
1:X:107:ARG:HB2	1:X:114:ILE:HB	0.60	1.73
1:X:120:ARG:HD3	1:X:122:TYR:HE1	0.60	1.57
1:A:163:ARG:HB3	1:F:26:GLN:CB	0.60	2.27
1:C:23:LEU:HG	1:C:26:GLN:HB3	0.60	1.74
1:Q:18:HIS:CE1	1:T:20:PRO:HB2	0.60	2.32
1:D:23:LEU:HB2	1:U:15:PHE:CD1	0.60	2.31
1:E:167:PRO:HB2	1:U:13:PRO:O	0.60	1.97
1:K:19:SER:CB	1:N:28:PHE:HB2	0.60	2.27
1:B:107:ARG:HB2	1:B:114:ILE:HB	0.59	1.74
1:C:1:MET:HB2	1:W:174:LYS:HD2	0.59	1.73
1:E:17:PHE:HB2	1:Q:167:PRO:HG2	0.59	1.73
1:G:18:HIS:ND1	1:X:20:PRO:HB2	0.59	2.12
1:L:150:LYS:NZ	1:L:151:GLN:HE21	0.59	1.95
1:R:164:GLU:HG3	1:R:167:PRO:HD2	0.59	1.72
1:A:165:GLU:HG3	1:F:27:PHE:CD1	0.59	2.32
1:K:23:LEU:HG	1:K:26:GLN:HB3	0.59	1.73
1:N:72:LYS:HB3	1:O:45:SER:HA	0.59	1.74
1:T:130:PRO:O	1:U:156:GLU:HB3	0.59	1.97
1:U:107:ARG:HB2	1:U:114:ILE:HB	0.59	1.74
1:W:107:ARG:HB2	1:W:114:ILE:HB	0.59	1.73
1:W:117:GLU:HB3	1:X:117:GLU:HB3	0.59	1.73
1:K:13:PRO:HB2	1:O:169:VAL:HG22	0.59	1.74
1:O:107:ARG:HB2	1:O:114:ILE:HB	0.59	1.74
1:P:150:LYS:NZ	1:P:151:GLN:HE21	0.59	1.95
1:V:124:ILE:HD12	1:V:127:ASP:HB2	0.59	1.75
1:I:107:ARG:HB2	1:I:114:ILE:HB	0.59	1.74
1:M:107:ARG:HB2	1:M:114:ILE:HB	0.59	1.73
1:V:143:LEU:HD13	1:V:144:THR:N	0.59	2.12
1:G:163:ARG:CZ	1:L:27:PHE:HB3	0.59	2.27
1:H:27:PHE:H	1:I:163:ARG:CZ	0.59	2.09
1:M:45:SER:HB2	1:M:48:TYR:HB2	0.59	1.73

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:P:57:ALA:HB3	1:P:58:PRO:HD3	0.59	1.75
1:G:117:GLU:HB3	1:H:117:GLU:HB3	0.59	1.73
1:I:168:ALA:N	1:W:13:PRO:O	0.59	2.36
1:B:57:ALA:HB3	1:B:58:PRO:HD3	0.59	1.75
1:H:27:PHE:N	1:I:163:ARG:HG2	0.59	2.13
1:H:150:LYS:HG2	1:I:152:VAL:HB	0.59	1.75
1:L:97:VAL:HG22	1:L:123:ARG:HD3	0.59	1.75
1:Q:69:ARG:HD3	1:Q:70:LEU:N	0.59	2.11
1:J:164:GLU:HG3	1:J:167:PRO:HD2	0.59	1.72
1:K:15:PHE:CB	1:K:16:PRO:CD	0.59	2.81
1:P:72:LYS:HE2	1:Q:46:PRO:HD2	0.59	1.75
1:A:16:PRO:C	1:K:167:PRO:HD3	0.59	2.23
1:E:17:PHE:HB2	1:Q:167:PRO:CG	0.59	2.27
1:E:23:LEU:HG	1:E:26:GLN:HB3	0.59	1.75
1:E:167:PRO:HG3	1:U:17:PHE:N	0.59	2.12
1:H:22:ARG:HG3	1:H:23:LEU:CD2	0.59	2.28
1:H:107:ARG:HB2	1:H:114:ILE:HB	0.59	1.74
1:Q:15:PHE:HB2	1:Q:16:PRO:CD	0.59	2.26
1:C:117:GLU:HB3	1:D:117:GLU:HB3	0.59	1.73
1:E:107:ARG:HB2	1:E:114:ILE:HB	0.59	1.73
1:M:1:MET:HG2	1:O:175:LYS:HB3	0.59	1.73
1:M:164:GLU:HB2	1:R:138:SER:C	0.59	2.22
1:N:57:ALA:HB3	1:N:58:PRO:HD3	0.59	1.75
1:Q:127:ASP:HA	1:Q:149:ARG:HB2	0.59	1.75
1:T:57:ALA:HB3	1:T:58:PRO:HD3	0.59	1.75
1:U:23:LEU:HG	1:U:26:GLN:HB3	0.59	1.75
1:V:107:ARG:HB2	1:V:114:ILE:HB	0.59	1.74
1:W:45:SER:HB2	1:W:48:TYR:HB2	0.59	1.73
1:S:1:MET:H3	1:U:175:LYS:N	0.58	1.95
1:S:163:ARG:CB	1:X:26:GLN:HB2	0.58	2.25
1:V:150:LYS:NZ	1:V:151:GLN:HE21	0.58	1.96
1:B:130:PRO:O	1:C:156:GLU:HB3	0.58	1.97
1:D:107:ARG:HB2	1:D:114:ILE:HB	0.58	1.73
1:J:150:LYS:NZ	1:J:151:GLN:HE21	0.58	1.96
1:K:165:GLU:HB3	1:K:166:LYS:HD3	0.58	1.74
1:Q:13:PRO:HB2	1:U:169:VAL:HG22	0.58	1.74
1:Q:16:PRO:HB3	1:U:165:GLU:O	0.58	1.98
1:A:18:HIS:CE1	1:J:20:PRO:HB2	0.58	2.33
1:A:164:GLU:HB2	1:F:138:SER:C	0.58	2.22
1:M:71:GLU:C	1:M:72:LYS:HD2	0.58	2.24
1:N:107:ARG:HB2	1:N:114:ILE:HB	0.58	1.74
1:U:149:ARG:O	1:U:150:LYS:HB2	0.58	1.98

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:I:163:ARG:HD2	1:W:15:PHE:CD1	0.58	2.33
1:Q:18:HIS:CD2	1:T:21:SER:HB3	0.58	2.33
1:A:163:ARG:CZ	1:F:27:PHE:HB3	0.58	2.28
1:D:57:ALA:HB3	1:D:58:PRO:HD3	0.58	1.75
1:G:1:MET:HG2	1:I:175:LYS:HB3	0.58	1.74
1:G:169:VAL:HB	1:M:13:PRO:HB2	0.58	1.75
1:H:20:PRO:HB2	1:W:18:HIS:ND1	0.58	2.13
1:M:167:PRO:HB2	1:S:13:PRO:C	0.58	2.23
1:P:164:GLU:HG3	1:P:167:PRO:HD2	0.58	1.73
1:Q:1:MET:HB3	1:U:174:LYS:HD2	0.58	1.73
1:B:27:PHE:H	1:C:163:ARG:HD2	0.58	1.56
1:D:120:ARG:HD3	1:D:122:TYR:HE1	0.58	1.59
1:D:150:LYS:NZ	1:D:151:GLN:HE21	0.58	1.96
1:F:57:ALA:HB3	1:F:58:PRO:HD3	0.58	1.75
1:G:152:VAL:HB	1:L:150:LYS:HG2	0.58	1.74
1:Q:15:PHE:HB3	1:U:163:ARG:HA	0.58	1.75
1:R:57:ALA:HB3	1:R:58:PRO:HD3	0.58	1.75
1:V:120:ARG:HD3	1:V:122:TYR:HE1	0.58	1.59
1:N:120:ARG:HD3	1:N:122:TYR:HE1	0.58	1.58
1:F:21:SER:HB2	1:O:14:PHE:C	0.58	2.23
1:G:12:ARG:CB	1:G:13:PRO:HD3	0.58	2.29
1:I:162:THR:HG23	1:I:164:GLU:OE1	0.58	1.99
1:L:28:PHE:HB2	1:M:19:SER:CB	0.58	2.28
1:L:107:ARG:HB2	1:L:114:ILE:HB	0.58	1.74
1:M:167:PRO:HG2	1:S:17:PHE:HB2	0.58	1.74
1:M:168:ALA:N	1:S:13:PRO:O	0.58	2.37
1:P:156:GLU:HB2	1:Q:131:LEU:HD22	0.58	1.76
1:Q:14:PHE:HB3	1:T:21:SER:HB2	0.58	1.76
1:Q:161:ILE:HG22	1:Q:162:THR:H	0.58	1.58
1:R:124:ILE:HD12	1:R:127:ASP:HB2	0.58	1.75
1:T:107:ARG:HB2	1:T:114:ILE:HB	0.58	1.74
1:W:23:LEU:HG	1:W:26:GLN:HB3	0.58	1.76
1:A:57:ALA:HB3	1:A:58:PRO:HD3	0.58	1.76
1:A:107:ARG:HB2	1:A:114:ILE:HB	0.58	1.73
1:F:23:LEU:HB2	1:O:15:PHE:HB3	0.58	1.76
1:R:20:PRO:HB2	1:S:18:HIS:ND1	0.58	2.13
1:R:167:PRO:O	1:R:169:VAL:HG23	0.58	1.99
1:W:72:LYS:HB3	1:W:149:ARG:CZ	0.58	2.29
1:X:15:PHE:N	1:X:16:PRO:HD2	0.58	2.14
1:A:1:MET:HG2	1:C:175:LYS:HB3	0.58	1.76
1:A:14:PHE:C	1:J:21:SER:HB2	0.58	2.23
1:A:167:PRO:HB3	1:O:16:PRO:CD	0.58	2.27

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:E:167:PRO:HG2	1:U:17:PHE:HB2	0.58	1.74
1:G:15:PHE:HB2	1:S:163:ARG:HA	0.58	1.74
1:G:16:PRO:CD	1:S:167:PRO:HB3	0.58	2.29
1:H:120:ARG:HD3	1:H:122:TYR:HE1	0.58	1.58
1:L:21:SER:HB2	1:M:14:PHE:C	0.58	2.23
1:S:45:SER:HB2	1:S:48:TYR:HB2	0.58	1.74
1:A:45:SER:HA	1:F:72:LYS:HE2	0.57	1.74
1:E:45:SER:CB	1:E:48:TYR:HB2	0.57	2.29
1:K:79:LEU:HB2	1:K:143:LEU:HB3	0.57	1.75
1:O:149:ARG:O	1:O:150:LYS:HB2	0.57	1.97
1:Q:15:PHE:HE1	1:T:22:ARG:HG2	0.57	1.58
1:R:15:PHE:N	1:R:16:PRO:HD2	0.57	2.14
1:B:21:SER:CB	1:I:14:PHE:HB3	0.57	2.27
1:B:138:SER:O	1:C:164:GLU:HB3	0.57	1.99
1:C:18:HIS:CD2	1:V:20:PRO:HB2	0.57	2.33
1:D:139:SER:HB2	1:E:165:GLU:O	0.57	1.99
1:F:89:LEU:HD21	1:F:137:LEU:HD21	0.57	1.76
1:F:124:ILE:HD12	1:F:127:ASP:HB2	0.57	1.76
1:G:163:ARG:CB	1:M:15:PHE:HB2	0.57	2.29
1:J:57:ALA:HB3	1:J:58:PRO:HD3	0.57	1.75
1:K:16:PRO:N	1:O:167:PRO:HG3	0.57	2.14
1:S:156:GLU:HB3	1:X:130:PRO:O	0.57	2.00
1:H:26:GLN:N	1:I:163:ARG:HD3	0.57	2.14
1:I:167:PRO:CB	1:W:16:PRO:HD2	0.57	2.30
1:P:18:HIS:O	1:P:19:SER:HB2	0.57	1.99
1:Q:120:ARG:HD3	1:Q:122:TYR:HE1	0.57	1.59
1:E:57:ALA:HB3	1:E:58:PRO:HD3	0.57	1.76
1:I:169:VAL:HG22	1:W:13:PRO:HB2	0.57	1.77
1:J:120:ARG:HD3	1:J:122:TYR:HE1	0.57	1.59
1:P:143:LEU:HD13	1:P:144:THR:N	0.57	2.14
1:V:79:LEU:HB2	1:V:143:LEU:HB3	0.57	1.76
1:X:150:LYS:NZ	1:X:151:GLN:HE21	0.57	1.97
1:A:23:LEU:HG	1:A:26:GLN:HB3	0.57	1.75
1:C:15:PHE:CD2	1:V:23:LEU:HD13	0.57	2.34
1:H:23:LEU:HD23	1:W:15:PHE:CG	0.57	2.34
1:K:14:PHE:CG	1:O:169:VAL:HG23	0.57	2.35
1:N:26:GLN:CB	1:O:163:ARG:HB3	0.57	2.29
1:F:2:ASP:HB3	1:F:5:ILE:HB	0.57	1.76
1:H:124:ILE:HD12	1:H:127:ASP:HB2	0.57	1.74
1:J:143:LEU:HD13	1:J:144:THR:N	0.57	2.15
1:L:21:SER:HB3	1:M:18:HIS:CD2	0.57	2.34
1:L:57:ALA:HB3	1:L:58:PRO:HD3	0.57	1.75

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:M:85:SER:OG	1:M:88:GLU:HB2	0.57	1.99
1:M:167:PRO:CD	1:S:16:PRO:HB2	0.57	2.30
1:O:164:GLU:O	1:O:165:GLU:O	0.57	2.23
1:R:150:LYS:NZ	1:R:151:GLN:HE21	0.57	1.97
1:S:100:VAL:HG12	1:S:120:ARG:HB2	0.57	1.77
1:U:57:ALA:HB3	1:U:58:PRO:HD3	0.57	1.77
1:A:15:PHE:CD1	1:J:23:LEU:HB2	0.57	2.35
1:G:156:GLU:HB3	1:L:130:PRO:O	0.57	1.99
1:H:22:ARG:O	1:H:23:LEU:HD13	0.57	1.99
1:J:151:GLN:HE22	1:K:150:LYS:C	0.57	2.08
1:T:2:ASP:HB3	1:T:5:ILE:HB	0.57	1.76
1:A:156:GLU:HB3	1:F:130:PRO:O	0.57	1.99
1:B:2:ASP:HB3	1:B:5:ILE:HB	0.57	1.76
1:D:20:PRO:HB2	1:U:18:HIS:CD2	0.57	2.35
1:D:72:LYS:O	1:E:44:LEU:HB3	0.57	2.00
1:G:167:PRO:HG3	1:M:17:PHE:N	0.57	2.14
1:H:24:PHE:HB3	1:W:18:HIS:CD2	0.57	2.35
1:J:130:PRO:O	1:K:156:GLU:HB3	0.57	1.99
1:K:16:PRO:HD2	1:O:167:PRO:CB	0.57	2.29
1:Q:18:HIS:HB3	1:U:163:ARG:CZ	0.57	2.30
1:P:120:ARG:HD3	1:P:122:TYR:HE1	0.57	1.59
1:Q:57:ALA:HB3	1:Q:58:PRO:HD3	0.57	1.77
1:R:120:ARG:HD3	1:R:122:TYR:HE1	0.57	1.60
1:S:165:GLU:HG3	1:X:27:PHE:CD1	0.57	2.34
1:T:27:PHE:H	1:U:163:ARG:HD2	0.57	1.57
1:U:169:VAL:HG12	1:U:170:THR:H	0.57	1.59
1:V:57:ALA:HB3	1:V:58:PRO:HD3	0.57	1.75
1:H:57:ALA:HB3	1:H:58:PRO:HD3	0.57	1.75
1:P:26:GLN:CB	1:Q:163:ARG:HB3	0.57	2.30
1:X:97:VAL:HG22	1:X:123:ARG:HD3	0.57	1.77
1:C:16:PRO:HA	1:V:27:PHE:HB2	0.56	1.75
1:M:100:VAL:HG12	1:M:120:ARG:HB2	0.56	1.77
1:P:72:LYS:CE	1:Q:46:PRO:HD2	0.56	2.30
1:S:152:VAL:HB	1:X:150:LYS:HG2	0.56	1.75
1:V:137:LEU:HD22	1:V:143:LEU:HD23	0.56	1.77
1:X:18:HIS:O	1:X:19:SER:HB2	0.56	2.00
1:A:85:SER:OG	1:A:88:GLU:HB2	0.56	1.99
1:A:167:PRO:CB	1:O:16:PRO:HD2	0.56	2.29
1:A:168:ALA:N	1:O:13:PRO:O	0.56	2.39
1:B:120:ARG:HD3	1:B:122:TYR:HE1	0.56	1.60
1:G:167:PRO:HB2	1:M:13:PRO:O	0.56	2.00
1:M:163:ARG:CZ	1:R:27:PHE:H	0.56	2.12

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:O:57:ALA:HB3	1:O:58:PRO:HD3	0.56	1.77
1:V:72:LYS:CB	1:W:46:PRO:HD3	0.56	2.28
1:V:84:PHE:HB3	1:V:139:SER:O	0.56	2.00
1:C:17:PHE:CD2	1:W:168:ALA:HB2	0.56	2.35
1:D:138:SER:HB2	1:D:142:VAL:HB	0.56	1.76
1:G:164:GLU:HB2	1:L:139:SER:N	0.56	2.14
1:G:165:GLU:O	1:L:139:SER:HB2	0.56	2.00
1:L:20:PRO:HB2	1:M:18:HIS:CE1	0.56	2.35
1:L:167:PRO:O	1:L:169:VAL:HG23	0.56	2.01
1:O:124:ILE:HB	1:O:127:ASP:HB2	0.56	1.76
1:Q:15:PHE:CE1	1:T:23:LEU:HG	0.56	2.36
1:Q:100:VAL:HG12	1:Q:120:ARG:HB2	0.56	1.77
1:S:70:LEU:HD12	1:S:71:GLU:HG3	0.56	1.77
1:U:156:GLU:HG3	1:U:157:ARG:H	0.56	1.59
1:A:131:LEU:HD23	1:F:156:GLU:HB2	0.56	1.77
1:B:138:SER:C	1:C:164:GLU:HB3	0.56	2.26
1:E:165:GLU:CA	1:U:16:PRO:HB3	0.56	2.30
1:M:132:THR:HG21	1:M:148:PRO:HG2	0.56	1.76
1:Q:45:SER:CB	1:Q:48:TYR:HB2	0.56	2.30
1:T:69:ARG:HD3	1:T:70:LEU:N	0.56	2.15
1:U:69:ARG:HG2	1:U:70:LEU:H	0.56	1.61
1:X:51:PRO:HD2	1:X:60:TRP:O	0.56	2.01
1:X:89:LEU:HD21	1:X:137:LEU:HD21	0.56	1.76
1:F:20:PRO:HB2	1:O:18:HIS:ND1	0.56	2.16
1:O:32:LEU:HD13	1:O:49:LEU:HD13	0.56	1.78
1:R:23:LEU:HB2	1:S:15:PHE:CD1	0.56	2.35
1:A:13:PRO:C	1:K:167:PRO:HB2	0.56	2.26
1:C:16:PRO:HG3	1:W:164:GLU:O	0.56	2.00
1:C:69:ARG:HG2	1:C:70:LEU:H	0.56	1.60
1:P:51:PRO:HD2	1:P:60:TRP:O	0.56	2.01
1:A:167:PRO:CG	1:O:17:PHE:HB2	0.56	2.31
1:B:81:VAL:HB	1:B:141:GLY:O	0.56	2.01
1:C:165:GLU:O	1:C:166:LYS:CB	0.56	2.53
1:E:11:ARG:O	1:P:22:ARG:HG2	0.56	2.01
1:F:120:ARG:HD3	1:F:122:TYR:HE1	0.56	1.61
1:H:51:PRO:HD2	1:H:60:TRP:O	0.56	2.01
1:M:163:ARG:HD2	1:R:27:PHE:H	0.56	1.60
1:N:27:PHE:HB3	1:O:163:ARG:CZ	0.56	2.29
1:B:124:ILE:HD12	1:B:127:ASP:HB2	0.56	1.77
1:E:14:PHE:CG	1:Q:169:VAL:HG22	0.56	2.36
1:F:23:LEU:HB2	1:O:15:PHE:CD2	0.56	2.36
1:G:15:PHE:CB	1:X:23:LEU:HB2	0.56	2.30

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:R:51:PRO:HD2	1:R:60:TRP:O	0.56	2.01
1:V:72:LYS:HB2	1:W:44:LEU:O	0.56	2.01
1:C:167:PRO:HB3	1:I:16:PRO:HD2	0.56	1.76
1:M:57:ALA:HB3	1:M:58:PRO:HD3	0.56	1.77
1:T:120:ARG:HD3	1:T:122:TYR:HE1	0.56	1.60
1:V:130:PRO:O	1:W:156:GLU:HB3	0.56	2.01
1:X:57:ALA:HB3	1:X:58:PRO:HD3	0.56	1.75
1:A:100:VAL:HG12	1:A:120:ARG:HB2	0.56	1.77
1:A:167:PRO:HD2	1:O:17:PHE:CD2	0.56	2.36
1:B:19:SER:N	1:B:20:PRO:CD	0.56	2.67
1:B:150:LYS:HG3	1:B:151:GLN:HG3	0.56	1.76
1:E:16:PRO:HB3	1:Q:165:GLU:O	0.56	2.00
1:F:51:PRO:HD2	1:F:60:TRP:O	0.56	2.01
1:G:17:PHE:HB2	1:S:167:PRO:CG	0.56	2.31
1:N:97:VAL:HG22	1:N:123:ARG:HD3	0.56	1.76
1:R:21:SER:CB	1:S:14:PHE:HB3	0.56	2.29
1:T:27:PHE:HB3	1:U:163:ARG:CZ	0.56	2.31
1:U:1:MET:H3	1:W:175:LYS:N	0.56	1.99
1:E:10:ILE:O	1:Q:169:VAL:HG11	0.55	2.01
1:G:17:PHE:CD2	1:S:167:PRO:HD2	0.55	2.36
1:G:143:LEU:HD13	1:G:144:THR:N	0.55	2.17
1:N:150:LYS:HE3	1:O:152:VAL:HG23	0.55	1.77
1:S:163:ARG:CZ	1:X:27:PHE:HB3	0.55	2.30
1:T:30:GLU:HB2	1:U:165:GLU:CD	0.55	2.25
1:T:138:SER:HB2	1:T:142:VAL:HB	0.55	1.77
1:C:57:ALA:HB3	1:C:58:PRO:HD3	0.55	1.77
1:C:100:VAL:HG12	1:C:120:ARG:HB2	0.55	1.77
1:E:117:GLU:HB3	1:F:117:GLU:HB3	0.55	1.76
1:F:27:PHE:HB2	1:O:16:PRO:HA	0.55	1.78
1:G:13:PRO:O	1:S:167:PRO:HB2	0.55	2.01
1:K:100:VAL:HG12	1:K:120:ARG:HB2	0.55	1.77
1:L:15:PHE:HA	1:L:18:HIS:HB3	0.55	1.79
1:M:156:GLU:HB3	1:R:130:PRO:O	0.55	2.00
1:Q:48:TYR:CE1	1:Q:63:THR:HB	0.55	2.36
1:A:32:LEU:HD13	1:A:49:LEU:HD13	0.55	1.79
1:C:120:ARG:HD3	1:C:122:TYR:HE1	0.55	1.62
1:D:130:PRO:O	1:E:156:GLU:HB3	0.55	2.00
1:I:143:LEU:HD13	1:I:144:THR:N	0.55	2.17
1:N:22:ARG:C	1:N:23:LEU:HD22	0.55	2.26
1:S:57:ALA:HB3	1:S:58:PRO:HD3	0.55	1.78
1:A:163:ARG:HG2	1:F:27:PHE:N	0.55	2.17
1:C:16:PRO:N	1:W:167:PRO:HG3	0.55	2.17

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:E:17:PHE:N	1:Q:167:PRO:CG	0.55	2.69
1:G:100:VAL:HG12	1:G:120:ARG:HB2	0.55	1.77
1:I:167:PRO:CG	1:W:17:PHE:HB2	0.55	2.32
1:M:120:ARG:HD3	1:M:122:TYR:HE1	0.55	1.61
1:N:150:LYS:NZ	1:N:151:GLN:HE21	0.55	2.00
1:O:28:PHE:O	1:O:32:LEU:HG	0.55	2.02
1:C:18:HIS:C	1:C:20:PRO:HD3	0.55	2.26
1:E:120:ARG:HD3	1:E:122:TYR:HE1	0.55	1.62
1:G:57:ALA:HB3	1:G:58:PRO:HD3	0.55	1.77
1:L:51:PRO:HD2	1:L:60:TRP:O	0.55	2.01
1:M:163:ARG:HG2	1:R:23:LEU:HB3	0.55	1.77
1:B:27:PHE:HB3	1:C:163:ARG:CZ	0.55	2.32
1:B:51:PRO:HD2	1:B:60:TRP:O	0.55	2.02
1:G:156:GLU:HG3	1:G:157:ARG:H	0.55	1.62
1:H:139:SER:CA	1:I:164:GLU:HB3	0.55	2.31
1:J:167:PRO:O	1:J:169:VAL:HG23	0.55	2.00
1:K:57:ALA:HB3	1:K:58:PRO:HD3	0.55	1.77
1:Q:156:GLU:HG3	1:Q:157:ARG:H	0.55	1.61
1:V:51:PRO:HD2	1:V:60:TRP:O	0.55	2.01
1:W:28:PHE:O	1:W:32:LEU:HG	0.55	2.02
1:W:57:ALA:HB3	1:W:58:PRO:HD3	0.55	1.76
1:A:19:SER:CB	1:J:28:PHE:HB2	0.55	2.31
1:A:167:PRO:HG3	1:O:16:PRO:C	0.55	2.27
1:C:174:LYS:HE2	1:K:174:LYS:HG2	0.55	1.78
1:D:81:VAL:HB	1:D:141:GLY:O	0.55	2.02
1:I:15:PHE:CB	1:I:16:PRO:CD	0.55	2.80
1:M:163:ARG:HG2	1:S:15:PHE:HB3	0.55	1.77
1:Q:143:LEU:HD13	1:Q:144:THR:N	0.55	2.17
1:S:175:LYS:N	1:W:1:MET:H3	0.55	2.00
1:J:51:PRO:HD2	1:J:60:TRP:O	0.55	2.01
1:L:138:SER:HB2	1:L:142:VAL:HB	0.55	1.79
1:N:51:PRO:HD2	1:N:60:TRP:O	0.55	2.02
1:P:97:VAL:HG22	1:P:123:ARG:HD3	0.55	1.78
1:U:156:GLU:HG3	1:U:157:ARG:N	0.55	2.17
1:D:27:PHE:H	1:E:163:ARG:NE	0.55	1.99
1:E:16:PRO:HD2	1:Q:167:PRO:CB	0.55	2.28
1:O:143:LEU:HD13	1:O:144:THR:N	0.55	2.17
1:A:163:ARG:HA	1:O:15:PHE:HB2	0.55	1.79
1:C:15:PHE:CZ	1:V:23:LEU:HD22	0.55	2.37
1:C:143:LEU:HD13	1:C:144:THR:N	0.55	2.17
1:D:51:PRO:HD2	1:D:60:TRP:O	0.55	2.02
1:D:100:VAL:HG12	1:D:120:ARG:HB2	0.55	1.79

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:E:174:LYS:HE2	1:W:174:LYS:HE2	0.55	1.79
1:R:20:PRO:HB2	1:S:18:HIS:CE1	0.55	2.36
1:S:15:PHE:HD2	1:S:16:PRO:HD3	0.55	1.60
1:S:163:ARG:HD2	1:X:23:LEU:O	0.55	2.02
1:T:51:PRO:HD2	1:T:60:TRP:O	0.55	2.02
1:U:46:PRO:HD2	1:U:48:TYR:CD1	0.55	2.38
1:U:100:VAL:HG12	1:U:120:ARG:HB2	0.55	1.78
1:F:20:PRO:HB2	1:O:18:HIS:CE1	0.54	2.37
1:F:24:PHE:HD2	1:O:18:HIS:CE1	0.54	2.19
1:I:46:PRO:HD2	1:I:48:TYR:CD1	0.54	2.37
1:J:72:LYS:HB3	1:K:46:PRO:HD3	0.54	1.77
1:U:12:ARG:CB	1:U:13:PRO:HD3	0.54	2.32
1:A:14:PHE:CG	1:K:169:VAL:HG12	0.54	2.37
1:A:28:PHE:O	1:A:32:LEU:HG	0.54	2.01
1:B:100:VAL:HG12	1:B:120:ARG:HB2	0.54	1.79
1:D:18:HIS:O	1:D:19:SER:HB2	0.54	2.02
1:G:28:PHE:O	1:G:32:LEU:HG	0.54	2.02
1:H:72:LYS:HB3	1:I:45:SER:CA	0.54	2.31
1:I:57:ALA:HB3	1:I:58:PRO:HD3	0.54	1.78
1:J:15:PHE:HA	1:J:18:HIS:HB3	0.54	1.79
1:S:131:LEU:HD23	1:X:156:GLU:HB2	0.54	1.78
1:T:139:SER:HB2	1:U:165:GLU:O	0.54	2.01
1:V:74:ARG:HG3	1:W:45:SER:O	0.54	2.02
1:W:143:LEU:HD13	1:W:144:THR:N	0.54	2.16
1:X:164:GLU:HG3	1:X:167:PRO:CD	0.54	2.31
1:C:15:PHE:CE2	1:V:23:LEU:HD13	0.54	2.36
1:G:32:LEU:HD13	1:G:49:LEU:HD13	0.54	1.78
1:G:164:GLU:O	1:L:139:SER:HB2	0.54	2.01
1:M:167:PRO:HG2	1:M:168:ALA:H	0.54	1.61
1:R:2:ASP:HB3	1:R:5:ILE:HB	0.54	1.80
1:T:151:GLN:HE22	1:U:150:LYS:HD2	0.54	1.62
1:U:32:LEU:HD13	1:U:49:LEU:HD13	0.54	1.78
1:V:2:ASP:HB3	1:V:5:ILE:HB	0.54	1.79
1:A:16:PRO:HD2	1:K:167:PRO:CB	0.54	2.32
1:A:156:GLU:HG3	1:A:157:ARG:N	0.54	2.17
1:A:161:ILE:O	1:A:162:THR:HB	0.54	2.01
1:E:13:PRO:O	1:Q:168:ALA:N	0.54	2.41
1:G:16:PRO:HB3	1:S:165:GLU:N	0.54	2.17
1:G:18:HIS:CE1	1:X:24:PHE:HD2	0.54	2.20
1:I:100:VAL:HG12	1:I:120:ARG:HB2	0.54	1.78
1:L:2:ASP:HB3	1:L:5:ILE:HB	0.54	1.80
1:M:156:GLU:HG3	1:M:157:ARG:N	0.54	2.17

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:N:137:LEU:HD13	1:N:143:LEU:HD23	0.54	1.80
1:Q:156:GLU:HG3	1:Q:157:ARG:N	0.54	2.17
1:A:10:ILE:O	1:K:169:VAL:HG11	0.54	2.02
1:A:174:LYS:HE3	1:Q:174:LYS:HG3	0.54	1.80
1:B:22:ARG:HG2	1:I:11:ARG:O	0.54	2.02
1:C:156:GLU:HG3	1:C:157:ARG:H	0.54	1.61
1:D:139:SER:HB2	1:E:164:GLU:O	0.54	2.01
1:H:23:LEU:HG	1:W:15:PHE:CZ	0.54	2.37
1:S:45:SER:O	1:X:74:ARG:HG2	0.54	2.02
1:W:161:ILE:HD13	1:W:161:ILE:H	0.54	1.63
1:X:2:ASP:HB3	1:X:5:ILE:HB	0.54	1.78
1:X:168:ALA:O	1:X:169:VAL:HG12	0.54	2.01
1:A:164:GLU:HB2	1:F:139:SER:N	0.54	2.18
1:C:164:GLU:O	1:C:165:GLU:C	0.54	2.51
1:D:97:VAL:HG22	1:D:123:ARG:HD3	0.54	1.79
1:S:79:LEU:HB2	1:S:143:LEU:HB3	0.54	1.78
1:U:143:LEU:HD13	1:U:144:THR:N	0.54	2.17
1:A:71:GLU:C	1:A:72:LYS:HD2	0.54	2.28
1:B:21:SER:HB3	1:I:18:HIS:CD2	0.54	2.38
1:C:165:GLU:CA	1:I:16:PRO:HB3	0.54	2.33
1:G:16:PRO:C	1:S:167:PRO:HG3	0.54	2.27
1:G:167:PRO:N	1:M:16:PRO:HB2	0.54	2.17
1:H:72:LYS:HE2	1:I:45:SER:HA	0.54	1.77
1:O:100:VAL:HG12	1:O:120:ARG:HB2	0.54	1.77
1:P:100:VAL:HG12	1:P:120:ARG:HB2	0.54	1.78
1:S:163:ARG:HB3	1:X:26:GLN:CB	0.54	2.26
1:C:16:PRO:HB3	1:W:163:ARG:O	0.54	2.02
1:G:120:ARG:HD3	1:G:122:TYR:HE1	0.54	1.63
1:I:1:MET:HB3	1:K:175:LYS:OXT	0.54	2.03
1:M:163:ARG:CG	1:R:23:LEU:HB3	0.54	2.32
1:P:23:LEU:CD2	1:Q:162:THR:HB	0.54	2.30
1:Q:123:ARG:O	1:Q:125:PRO:HD3	0.54	2.03
1:A:175:LYS:N	1:E:1:MET:H1	0.54	1.99
1:E:16:PRO:HG3	1:Q:164:GLU:H	0.54	1.61
1:E:156:GLU:HG3	1:E:157:ARG:N	0.54	2.18
1:K:17:PHE:HB2	1:O:167:PRO:CG	0.54	2.33
1:N:26:GLN:HB2	1:O:163:ARG:HD3	0.54	1.80
1:P:130:PRO:O	1:Q:156:GLU:HB3	0.54	2.03
1:T:69:ARG:HD3	1:T:70:LEU:H	0.54	1.61
1:U:72:LYS:HG2	1:U:127:ASP:OD1	0.54	2.02
1:V:156:GLU:HB2	1:W:131:LEU:HD22	0.54	1.79
1:X:95:GLY:HA2	1:X:130:PRO:HG3	0.54	1.79

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:C:15:PHE:C	1:W:163:ARG:HD2	0.54	2.27
1:F:18:HIS:O	1:F:19:SER:HB2	0.54	2.02
1:G:161:ILE:HG22	1:G:162:THR:H	0.54	1.62
1:G:165:GLU:HG3	1:L:27:PHE:CD1	0.54	2.38
1:J:100:VAL:HG12	1:J:120:ARG:HB2	0.54	1.79
1:K:45:SER:CB	1:K:48:TYR:HB2	0.54	2.33
1:N:150:LYS:HG2	1:O:152:VAL:HB	0.54	1.80
1:S:175:LYS:C	1:W:1:MET:HB3	0.54	2.27
1:F:23:LEU:HD13	1:O:15:PHE:CE2	0.53	2.38
1:G:156:GLU:HG3	1:G:157:ARG:N	0.53	2.18
1:I:1:MET:N	1:K:175:LYS:N	0.53	2.56
1:M:156:GLU:HG3	1:M:157:ARG:H	0.53	1.62
1:N:81:VAL:HB	1:N:141:GLY:O	0.53	2.03
1:Q:17:PHE:HD2	1:U:168:ALA:HB2	0.53	1.63
1:R:18:HIS:O	1:R:19:SER:HB2	0.53	2.02
1:R:100:VAL:HG12	1:R:120:ARG:HB2	0.53	1.80
1:X:100:VAL:HG12	1:X:120:ARG:HB2	0.53	1.78
1:A:163:ARG:CB	1:O:15:PHE:HB2	0.53	2.32
1:A:175:LYS:C	1:E:1:MET:HB3	0.53	2.29
1:C:167:PRO:HD3	1:I:16:PRO:HB2	0.53	1.80
1:G:11:ARG:HB3	1:X:22:ARG:N	0.53	2.18
1:I:167:PRO:HG3	1:W:16:PRO:C	0.53	2.29
1:J:72:LYS:CB	1:K:46:PRO:HD3	0.53	2.33
1:L:21:SER:CB	1:M:14:PHE:HB3	0.53	2.32
1:L:23:LEU:O	1:L:25:ASP:N	0.53	2.41
1:L:164:GLU:HG3	1:L:167:PRO:HD2	0.53	1.78
1:T:89:LEU:HD21	1:T:137:LEU:HD21	0.53	1.80
1:W:71:GLU:O	1:W:72:LYS:HD3	0.53	2.03
1:A:48:TYR:CD2	1:F:72:LYS:HE3	0.53	2.38
1:C:28:PHE:O	1:C:32:LEU:HG	0.53	2.03
1:C:167:PRO:HG3	1:I:17:PHE:N	0.53	2.18
1:M:128:VAL:HG13	1:M:133:ILE:HG13	0.53	1.80
1:T:164:GLU:HG3	1:T:167:PRO:CD	0.53	2.34
1:V:24:PHE:HA	1:W:163:ARG:CZ	0.53	2.32
1:W:12:ARG:O	1:W:15:PHE:HB2	0.53	2.02
1:W:156:GLU:HG3	1:W:157:ARG:N	0.53	2.19
1:A:2:ASP:HB3	1:A:5:ILE:HD13	0.53	1.79
1:A:156:GLU:HG3	1:A:157:ARG:H	0.53	1.61
1:E:100:VAL:HG12	1:E:120:ARG:HB2	0.53	1.78
1:H:26:GLN:HE22	1:H:137:LEU:H	0.53	1.46
1:I:120:ARG:HD3	1:I:122:TYR:HE1	0.53	1.63
1:J:97:VAL:HG22	1:J:123:ARG:HD3	0.53	1.78

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:K:28:PHE:O	1:K:32:LEU:HG	0.53	2.03
1:K:156:GLU:HG3	1:K:157:ARG:N	0.53	2.17
1:T:100:VAL:HG12	1:T:120:ARG:HB2	0.53	1.79
1:W:100:VAL:HG12	1:W:120:ARG:HB2	0.53	1.78
1:A:120:ARG:HD3	1:A:122:TYR:HE1	0.53	1.62
1:A:164:GLU:HB3	1:F:137:LEU:O	0.53	2.03
1:C:17:PHE:HB2	1:W:167:PRO:CG	0.53	2.30
1:E:156:GLU:HG3	1:E:157:ARG:H	0.53	1.63
1:F:84:PHE:HB3	1:F:139:SER:O	0.53	2.04
1:K:18:HIS:CD2	1:N:24:PHE:HB2	0.53	2.39
1:N:2:ASP:HB3	1:N:5:ILE:HB	0.53	1.80
1:T:124:ILE:HD12	1:T:127:ASP:HB2	0.53	1.78
1:X:81:VAL:HB	1:X:141:GLY:O	0.53	2.04
1:D:133:ILE:HD13	1:D:147:GLY:HA3	0.53	1.79
1:F:89:LEU:HD21	1:F:137:LEU:CD2	0.53	2.34
1:G:163:ARG:CA	1:M:15:PHE:HB2	0.53	2.33
1:G:167:PRO:CB	1:M:16:PRO:HD2	0.53	2.30
1:K:16:PRO:HG3	1:O:164:GLU:O	0.53	2.04
1:K:167:PRO:CG	1:K:168:ALA:H	0.53	2.17
1:N:95:GLY:HA2	1:N:130:PRO:HG3	0.53	1.79
1:S:1:MET:HB2	1:U:175:LYS:OXT	0.53	2.04
1:T:89:LEU:HD21	1:T:137:LEU:CD2	0.53	2.34
1:U:1:MET:N	1:W:175:LYS:N	0.53	2.56
1:X:85:SER:HB3	1:X:88:GLU:HB2	0.53	1.81
1:A:1:MET:H3	1:C:175:LYS:CB	0.53	2.16
1:A:17:PHE:N	1:K:167:PRO:HG3	0.53	2.18
1:C:16:PRO:CD	1:W:167:PRO:HG3	0.53	2.34
1:E:167:PRO:CG	1:U:17:PHE:HB2	0.53	2.33
1:E:169:VAL:HG11	1:U:10:ILE:HA	0.53	1.81
1:G:175:LYS:N	1:K:1:MET:H3	0.53	2.01
1:H:24:PHE:HA	1:I:163:ARG:CZ	0.53	2.33
1:K:120:ARG:HD3	1:K:122:TYR:HE1	0.53	1.63
1:V:137:LEU:CD2	1:V:143:LEU:HD23	0.53	2.32
1:E:12:ARG:NH2	1:P:87:GLU:HB2	0.53	2.19
1:E:167:PRO:HG2	1:E:168:ALA:H	0.53	1.64
1:G:174:LYS:HE2	1:O:174:LYS:HG2	0.53	1.80
1:K:143:LEU:HD13	1:K:144:THR:N	0.53	2.19
1:M:69:ARG:HG2	1:M:70:LEU:N	0.53	2.18
1:Q:13:PRO:O	1:Q:16:PRO:HD2	0.53	2.04
1:Q:72:LYS:HB3	1:Q:149:ARG:CZ	0.53	2.33
1:S:45:SER:N	1:X:72:LYS:HB3	0.53	2.18
1:W:19:SER:N	1:W:20:PRO:CD	0.53	2.72

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:W:32:LEU:HD13	1:W:49:LEU:HD13	0.53	1.80
1:B:27:PHE:H	1:C:163:ARG:CZ	0.53	2.17
1:C:19:SER:OG	1:V:28:PHE:HB2	0.53	2.02
1:E:14:PHE:C	1:P:21:SER:HB2	0.53	2.29
1:E:143:LEU:HD13	1:E:144:THR:N	0.53	2.19
1:E:163:ARG:CD	1:U:15:PHE:HB3	0.53	2.33
1:G:70:LEU:HB3	1:G:71:GLU:OE2	0.53	2.04
1:I:12:ARG:HB3	1:I:13:PRO:HD3	0.53	1.81
1:M:125:PRO:O	1:M:151:GLN:HG2	0.53	2.04
1:M:165:GLU:N	1:S:16:PRO:HB3	0.53	2.19
1:P:29:GLY:HA2	1:Q:33:LEU:HD21	0.53	1.81
1:S:143:LEU:HD13	1:S:144:THR:N	0.53	2.19
1:S:156:GLU:HG3	1:S:157:ARG:N	0.53	2.18
1:U:18:HIS:ND1	1:U:19:SER:N	0.53	2.55
1:X:84:PHE:HB3	1:X:139:SER:O	0.53	2.04
1:A:73:ASP:O	1:A:149:ARG:HD3	0.53	2.03
1:A:161:ILE:HG22	1:A:162:THR:H	0.53	1.64
1:C:167:PRO:HG3	1:I:16:PRO:C	0.53	2.29
1:D:24:PHE:HA	1:E:163:ARG:NE	0.53	2.18
1:G:72:LYS:HG2	1:G:127:ASP:OD1	0.53	2.04
1:G:164:GLU:HB3	1:L:137:LEU:O	0.53	2.03
1:G:167:PRO:CD	1:M:16:PRO:HB2	0.53	2.34
1:L:143:LEU:HD13	1:L:144:THR:N	0.53	2.19
1:M:143:LEU:HD13	1:M:144:THR:N	0.53	2.19
1:R:81:VAL:HB	1:R:141:GLY:O	0.53	2.04
1:S:46:PRO:HD3	1:X:72:LYS:HA	0.53	1.80
1:S:156:GLU:HG3	1:S:157:ARG:H	0.53	1.63
1:T:137:LEU:O	1:U:164:GLU:HB3	0.53	2.04
1:A:18:HIS:CE1	1:J:24:PHE:HB2	0.52	2.39
1:C:11:ARG:HB3	1:V:22:ARG:N	0.52	2.20
1:C:156:GLU:HG3	1:C:157:ARG:N	0.52	2.18
1:L:87:GLU:HB2	1:M:12:ARG:NH2	0.52	2.18
1:S:28:PHE:O	1:S:32:LEU:HG	0.52	2.04
1:V:72:LYS:HE3	1:W:48:TYR:CD1	0.52	2.39
1:A:13:PRO:O	1:K:167:PRO:HB2	0.52	2.04
1:D:28:PHE:HB2	1:U:19:SER:CB	0.52	2.33
1:D:31:HIS:CD2	1:U:56:ARG:HH12	0.52	2.21
1:F:100:VAL:HG12	1:F:120:ARG:HB2	0.52	1.79
1:G:45:SER:HA	1:L:72:LYS:HB3	0.52	1.80
1:I:28:PHE:O	1:I:32:LEU:HG	0.52	2.04
1:J:2:ASP:HB3	1:J:5:ILE:HB	0.52	1.80
1:K:18:HIS:CE1	1:N:20:PRO:HB2	0.52	2.39

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:L:20:PRO:HB2	1:M:18:HIS:ND1	0.52	2.18
1:M:167:PRO:HB3	1:S:16:PRO:CD	0.52	2.34
1:A:19:SER:N	1:A:20:PRO:CD	0.52	2.72
1:E:167:PRO:HB3	1:U:16:PRO:CD	0.52	2.34
1:G:15:PHE:CD2	1:G:16:PRO:HD3	0.52	2.39
1:H:2:ASP:HB3	1:H:5:ILE:HB	0.52	1.81
1:I:71:GLU:O	1:I:72:LYS:HD3	0.52	2.04
1:N:15:PHE:HA	1:N:18:HIS:HB3	0.52	1.80
1:R:27:PHE:HD2	1:S:18:HIS:O	0.52	1.87
1:T:150:LYS:HE2	1:U:152:VAL:HG23	0.52	1.81
1:V:95:GLY:HA2	1:V:130:PRO:HG3	0.52	1.81
1:A:79:LEU:HB2	1:A:143:LEU:HB3	0.52	1.80
1:B:72:LYS:HB3	1:C:45:SER:HA	0.52	1.80
1:G:12:ARG:NH2	1:X:87:GLU:HB3	0.52	2.20
1:G:18:HIS:CD2	1:X:21:SER:HB3	0.52	2.40
1:I:163:ARG:HB2	1:W:15:PHE:CE1	0.52	2.40
1:V:85:SER:OG	1:V:104:HIS:HB2	0.52	2.05
1:X:126:ALA:O	1:X:149:ARG:HB2	0.52	2.05
1:B:139:SER:HB2	1:C:164:GLU:O	0.52	2.05
1:C:162:THR:HB	1:I:15:PHE:CZ	0.52	2.39
1:E:16:PRO:CB	1:Q:165:GLU:C	0.52	2.75
1:F:15:PHE:HA	1:F:18:HIS:HB3	0.52	1.82
1:F:95:GLY:HA2	1:F:130:PRO:HG3	0.52	1.80
1:H:22:ARG:C	1:H:23:LEU:HD13	0.52	2.30
1:H:95:GLY:HA2	1:H:130:PRO:HG3	0.52	1.81
1:H:137:LEU:HD23	1:I:161:ILE:HG23	0.52	1.82
1:L:95:GLY:HA2	1:L:130:PRO:HG3	0.52	1.80
1:O:167:PRO:HG2	1:O:168:ALA:H	0.52	1.64
1:P:74:ARG:HG3	1:Q:45:SER:O	0.52	2.05
1:S:12:ARG:CB	1:S:13:PRO:HD3	0.52	2.33
1:T:166:LYS:HB2	1:T:167:PRO:HD3	0.52	1.82
1:U:28:PHE:O	1:U:32:LEU:HG	0.52	2.03
1:U:120:ARG:HD3	1:U:122:TYR:HE1	0.52	1.65
1:V:100:VAL:HG12	1:V:120:ARG:HB2	0.52	1.81
1:C:19:SER:N	1:C:20:PRO:CD	0.52	2.72
1:D:84:PHE:HB3	1:D:139:SER:O	0.52	2.04
1:G:80:ASP:H	1:G:120:ARG:HD2	0.52	1.64
1:H:21:SER:HB3	1:W:18:HIS:CG	0.52	2.40
1:K:71:GLU:O	1:K:72:LYS:HD3	0.52	2.04
1:O:120:ARG:HD3	1:O:122:TYR:HE1	0.52	1.64
1:P:81:VAL:HB	1:P:141:GLY:O	0.52	2.04
1:P:167:PRO:O	1:P:169:VAL:HG13	0.52	2.05

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:S:169:VAL:HG12	1:S:170:THR:H	0.52	1.64
1:T:126:ALA:O	1:T:149:ARG:HB2	0.52	2.03
1:A:120:ARG:HG2	1:B:114:ILE:HG12	0.52	1.82
1:I:80:ASP:H	1:I:120:ARG:HD2	0.52	1.65
1:I:167:PRO:HG2	1:I:168:ALA:H	0.52	1.65
1:J:72:LYS:O	1:K:44:LEU:HB3	0.52	2.05
1:L:126:ALA:O	1:L:149:ARG:HB2	0.52	2.05
1:L:164:GLU:HG3	1:L:167:PRO:CD	0.52	2.35
1:M:167:PRO:CG	1:S:17:PHE:N	0.52	2.73
1:P:130:PRO:HB2	1:Q:155:PRO:HA	0.52	1.81
1:Q:14:PHE:N	1:U:169:VAL:HG23	0.52	2.20
1:V:15:PHE:HA	1:V:18:HIS:HB3	0.52	1.81
1:X:89:LEU:HD21	1:X:137:LEU:CD2	0.52	2.35
1:B:72:LYS:CB	1:C:46:PRO:HD3	0.52	2.34
1:B:95:GLY:HA2	1:B:130:PRO:HG3	0.52	1.82
1:F:126:ALA:O	1:F:149:ARG:HB2	0.52	2.05
1:G:168:ALA:N	1:M:13:PRO:O	0.52	2.42
1:H:131:LEU:HG	1:I:154:GLY:O	0.52	2.05
1:I:169:VAL:HG12	1:I:170:THR:H	0.52	1.64
1:K:167:PRO:HG2	1:K:168:ALA:H	0.52	1.65
1:O:12:ARG:HB3	1:O:13:PRO:CD	0.52	2.32
1:P:30:GLU:HB2	1:Q:165:GLU:OE2	0.52	2.04
1:W:120:ARG:HD3	1:W:122:TYR:HE1	0.52	1.63
1:X:15:PHE:HA	1:X:18:HIS:HB3	0.52	1.80
1:D:24:PHE:HB3	1:U:18:HIS:CG	0.52	2.40
1:I:167:PRO:HD2	1:W:17:PHE:CD2	0.52	2.39
1:J:95:GLY:HA2	1:J:130:PRO:HG3	0.52	1.82
1:O:71:GLU:O	1:O:72:LYS:HD3	0.52	2.05
1:P:164:GLU:HG3	1:P:167:PRO:CD	0.52	2.34
1:R:164:GLU:HG3	1:R:167:PRO:CD	0.52	2.35
1:X:19:SER:N	1:X:20:PRO:CD	0.52	2.73
1:A:143:LEU:HD13	1:A:144:THR:N	0.52	2.20
1:A:165:GLU:CA	1:O:16:PRO:HB3	0.52	2.34
1:B:85:SER:OG	1:B:104:HIS:HB2	0.52	2.05
1:J:85:SER:HB3	1:J:88:GLU:HB2	0.52	1.81
1:J:164:GLU:HG3	1:J:167:PRO:CD	0.52	2.34
1:M:169:VAL:HG12	1:M:170:THR:H	0.52	1.65
1:N:18:HIS:O	1:N:19:SER:HB2	0.52	2.04
1:N:72:LYS:HB3	1:O:45:SER:CA	0.52	2.35
1:O:80:ASP:H	1:O:120:ARG:HD2	0.52	1.65
1:O:123:ARG:O	1:O:125:PRO:HD3	0.52	2.05
1:Q:77:VAL:HB	1:Q:145:VAL:HG23	0.52	1.81

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:S:166:LYS:HE3	1:X:139:SER:HB3	0.52	1.82
1:B:55:LEU:HD13	1:B:58:PRO:HG2	0.51	1.81
1:C:167:PRO:O	1:C:168:ALA:HB2	0.51	2.05
1:G:16:PRO:HB3	1:S:165:GLU:CA	0.51	2.34
1:G:16:PRO:HB2	1:S:167:PRO:CD	0.51	2.35
1:I:124:ILE:HB	1:I:127:ASP:HB2	0.51	1.80
1:T:18:HIS:O	1:T:19:SER:HB2	0.51	2.05
1:A:15:PHE:CD1	1:J:23:LEU:HD23	0.51	2.40
1:D:72:LYS:HZ3	1:E:46:PRO:HD2	0.51	1.62
1:D:85:SER:HB3	1:D:88:GLU:HB2	0.51	1.81
1:J:18:HIS:O	1:J:19:SER:HB2	0.51	2.05
1:L:23:LEU:HD23	1:M:15:PHE:CD2	0.51	2.40
1:P:27:PHE:H	1:Q:163:ARG:NE	0.51	2.03
1:B:28:PHE:HB2	1:I:19:SER:CB	0.51	2.34
1:E:165:GLU:O	1:E:166:LYS:HB2	0.51	2.04
1:G:163:ARG:CZ	1:M:18:HIS:HB3	0.51	2.35
1:J:23:LEU:C	1:K:163:ARG:HG2	0.51	2.30
1:L:85:SER:OG	1:L:104:HIS:HB2	0.51	2.05
1:M:164:GLU:HB3	1:R:137:LEU:O	0.51	2.05
1:R:87:GLU:HB2	1:S:12:ARG:NH2	0.51	2.20
1:U:80:ASP:H	1:U:120:ARG:HD2	0.51	1.65
1:A:18:HIS:CD2	1:J:24:PHE:HB2	0.51	2.40
1:B:133:ILE:HD13	1:B:147:GLY:HA3	0.51	1.82
1:C:71:GLU:O	1:C:72:LYS:HD3	0.51	2.06
1:D:27:PHE:H	1:E:163:ARG:HE	0.51	1.49
1:R:138:SER:HB2	1:R:142:VAL:HB	0.51	1.83
1:S:32:LEU:HD13	1:S:49:LEU:HD13	0.51	1.83
1:U:45:SER:HB2	1:U:48:TYR:HB2	0.51	1.81
1:C:54:PHE:CD2	1:W:166:LYS:HG3	0.51	2.40
1:F:39:PRO:HB3	1:F:43:SER:HA	0.51	1.81
1:F:85:SER:HB3	1:F:88:GLU:HB2	0.51	1.82
1:S:164:GLU:HB2	1:X:139:SER:N	0.51	2.21
1:V:22:ARG:C	1:V:23:LEU:HG	0.51	2.29
1:B:18:HIS:O	1:B:19:SER:HB2	0.51	2.06
1:B:20:PRO:HB2	1:I:18:HIS:ND1	0.51	2.20
1:E:28:PHE:O	1:E:32:LEU:HG	0.51	2.05
1:E:149:ARG:O	1:E:150:LYS:HB2	0.51	2.06
1:G:45:SER:HB2	1:G:48:TYR:HB2	0.51	1.83
1:H:126:ALA:O	1:H:149:ARG:HB2	0.51	2.06
1:I:123:ARG:O	1:I:125:PRO:HD3	0.51	2.06
1:J:22:ARG:HG3	1:J:23:LEU:CD2	0.51	2.34
1:J:71:GLU:O	1:J:72:LYS:HG3	0.51	2.06

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:K:13:PRO:C	1:O:169:VAL:HG22	0.51	2.31
1:K:16:PRO:C	1:O:167:PRO:HD3	0.51	2.31
1:P:139:SER:HB2	1:Q:165:GLU:O	0.51	2.06
1:R:85:SER:OG	1:R:104:HIS:HB2	0.51	2.05
1:U:18:HIS:C	1:U:20:PRO:HD3	0.51	2.31
1:W:69:ARG:HG2	1:W:70:LEU:H	0.51	1.65
1:M:152:VAL:HG23	1:R:150:LYS:HE3	0.51	1.83
1:N:126:ALA:O	1:N:149:ARG:HB2	0.51	2.06
1:W:165:GLU:O	1:W:166:LYS:HB2	0.51	2.05
1:A:45:SER:CA	1:F:72:LYS:HB3	0.51	2.35
1:A:167:PRO:CD	1:O:16:PRO:HB2	0.51	2.36
1:B:72:LYS:HB3	1:C:45:SER:CA	0.51	2.35
1:C:16:PRO:HD2	1:W:167:PRO:HB3	0.51	1.82
1:E:73:ASP:O	1:E:149:ARG:HD3	0.51	2.06
1:F:23:LEU:HD13	1:O:15:PHE:CD2	0.51	2.41
1:G:15:PHE:CG	1:X:23:LEU:HB2	0.51	2.40
1:M:167:PRO:CG	1:S:17:PHE:HB2	0.51	2.35
1:N:22:ARG:HG3	1:N:23:LEU:HD23	0.51	1.82
1:R:133:ILE:HD13	1:R:147:GLY:HA3	0.51	1.83
1:S:120:ARG:HD3	1:S:122:TYR:HE1	0.51	1.64
1:S:123:ARG:O	1:S:125:PRO:HD3	0.51	2.05
1:T:95:GLY:HA2	1:T:130:PRO:HG3	0.51	1.82
1:A:46:PRO:HD2	1:A:48:TYR:CD1	0.51	2.41
1:A:174:LYS:HG2	1:Q:174:LYS:NZ	0.51	2.20
1:C:167:PRO:CD	1:I:16:PRO:HB2	0.51	2.35
1:D:95:GLY:HA2	1:D:130:PRO:HG3	0.51	1.82
1:E:42:THR:C	1:E:44:LEU:H	0.51	2.14
1:I:32:LEU:HD13	1:I:49:LEU:HD13	0.51	1.83
1:J:81:VAL:HB	1:J:141:GLY:O	0.51	2.05
1:J:139:SER:HB3	1:K:166:LYS:HE2	0.51	1.82
1:K:14:PHE:C	1:N:21:SER:HB2	0.51	2.31
1:R:95:GLY:HA2	1:R:130:PRO:HG3	0.51	1.83
1:S:46:PRO:HB3	1:X:148:PRO:HB3	0.51	1.82
1:S:46:PRO:HD2	1:S:48:TYR:CD1	0.51	2.41
1:T:72:LYS:HB3	1:U:45:SER:N	0.51	2.20
1:B:126:ALA:O	1:B:149:ARG:HB2	0.51	2.06
1:S:154:GLY:O	1:X:131:LEU:HG	0.51	2.05
1:V:27:PHE:H	1:W:163:ARG:NE	0.51	2.02
1:V:126:ALA:O	1:V:149:ARG:HB2	0.51	2.05
1:X:39:PRO:HB3	1:X:43:SER:HA	0.51	1.82
1:H:72:LYS:HE2	1:I:44:LEU:O	0.50	2.06
1:K:18:HIS:C	1:K:20:PRO:HD3	0.50	2.30

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:N:164:GLU:HG3	1:N:167:PRO:CD	0.50	2.31
1:V:151:GLN:HE22	1:W:150:LYS:C	0.50	2.13
1:B:39:PRO:HG3	1:B:44:LEU:HB3	0.50	1.83
1:C:1:MET:HB2	1:W:174:LYS:CD	0.50	2.36
1:D:27:PHE:HB2	1:U:16:PRO:HA	0.50	1.82
1:E:123:ARG:O	1:E:125:PRO:HD3	0.50	2.06
1:L:24:PHE:HD2	1:M:18:HIS:CE1	0.50	2.24
1:P:26:GLN:HE22	1:P:136:SER:HB2	0.50	1.65
1:P:133:ILE:HD13	1:P:147:GLY:HA3	0.50	1.83
1:Q:18:HIS:CD2	1:T:24:PHE:N	0.50	2.80
1:Q:124:ILE:HG23	1:R:111:HIS:HB2	0.50	1.82
1:R:24:PHE:HD2	1:S:18:HIS:CE1	0.50	2.24
1:U:42:THR:C	1:U:44:LEU:H	0.50	2.14
1:W:80:ASP:H	1:W:120:ARG:HD2	0.50	1.65
1:B:164:GLU:HG3	1:B:167:PRO:CD	0.50	2.31
1:D:143:LEU:HD13	1:D:144:THR:N	0.50	2.22
1:E:163:ARG:HD2	1:U:15:PHE:C	0.50	2.31
1:G:5:ILE:O	1:G:8:PRO:HD2	0.50	2.06
1:G:15:PHE:CD1	1:X:23:LEU:HD23	0.50	2.42
1:H:20:PRO:HB2	1:W:18:HIS:CE1	0.50	2.40
1:I:95:GLY:HA2	1:I:130:PRO:HG3	0.50	1.82
1:I:163:ARG:HB2	1:W:15:PHE:CD1	0.50	2.42
1:K:69:ARG:HG2	1:K:70:LEU:H	0.50	1.66
1:L:89:LEU:HD21	1:L:137:LEU:CD2	0.50	2.35
1:M:28:PHE:O	1:M:32:LEU:HG	0.50	2.05
1:S:70:LEU:HB3	1:S:71:GLU:OE2	0.50	2.05
1:A:44:LEU:HD12	1:F:73:ASP:HA	0.50	1.83
1:C:56:ARG:HH12	1:V:31:HIS:CD2	0.50	2.24
1:E:16:PRO:HB2	1:Q:167:PRO:N	0.50	2.21
1:F:55:LEU:HD13	1:F:58:PRO:HG2	0.50	1.82
1:G:165:GLU:C	1:M:16:PRO:CB	0.50	2.78
1:H:139:SER:HB2	1:I:165:GLU:O	0.50	2.06
1:M:1:MET:H3	1:O:175:LYS:HB3	0.50	1.67
1:M:165:GLU:CA	1:S:16:PRO:HB3	0.50	2.35
1:N:27:PHE:H	1:O:163:ARG:NE	0.50	2.04
1:P:150:LYS:HG2	1:Q:152:VAL:HB	0.50	1.83
1:R:15:PHE:HA	1:R:18:HIS:HB3	0.50	1.82
1:W:156:GLU:HG3	1:W:157:ARG:H	0.50	1.67
1:X:137:LEU:HD13	1:X:143:LEU:HD23	0.50	1.82
1:D:22:ARG:C	1:D:23:LEU:HD12	0.50	2.32
1:D:126:ALA:O	1:D:149:ARG:HB2	0.50	2.07
1:E:164:GLU:C	1:U:16:PRO:HB3	0.50	2.32

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:I:168:ALA:HB2	1:W:17:PHE:CD2	0.50	2.41
1:K:18:HIS:HB2	1:N:21:SER:HB3	0.50	1.82
1:M:12:ARG:CB	1:M:13:PRO:HD3	0.50	2.36
1:N:26:GLN:HB2	1:O:163:ARG:CB	0.50	2.34
1:X:170:THR:HG22	1:X:171:ALA:H	0.50	1.65
1:C:1:MET:HB3	1:E:175:LYS:OXT	0.50	2.06
1:C:166:LYS:H	1:C:167:PRO:HD3	0.50	1.65
1:C:169:VAL:HG22	1:I:13:PRO:CB	0.50	2.32
1:D:169:VAL:HG12	1:D:170:THR:H	0.50	1.67
1:F:87:GLU:HB3	1:O:12:ARG:NH1	0.50	2.22
1:G:165:GLU:C	1:G:166:LYS:HG2	0.50	2.30
1:G:165:GLU:O	1:M:16:PRO:HB3	0.50	2.06
1:K:124:ILE:HB	1:K:127:ASP:HB2	0.50	1.83
1:L:18:HIS:O	1:L:19:SER:HB2	0.50	2.06
1:M:131:LEU:HD23	1:R:156:GLU:HB2	0.50	1.83
1:Q:15:PHE:HB3	1:U:163:ARG:CG	0.50	2.34
1:Q:28:PHE:O	1:Q:32:LEU:HG	0.50	2.05
1:Q:56:ARG:HH12	1:T:31:HIS:CD2	0.50	2.23
1:S:81:VAL:HB	1:S:141:GLY:O	0.50	2.07
1:S:163:ARG:HD2	1:X:23:LEU:C	0.50	2.31
1:V:18:HIS:O	1:V:19:SER:HB2	0.50	2.06
1:W:30:GLU:O	1:W:34:GLU:HG3	0.50	2.06
1:C:81:VAL:HB	1:C:141:GLY:O	0.50	2.07
1:F:138:SER:HB2	1:F:142:VAL:HB	0.50	1.84
1:K:16:PRO:CD	1:O:167:PRO:HB3	0.50	2.35
1:K:19:SER:N	1:K:20:PRO:CD	0.50	2.74
1:N:139:SER:N	1:O:164:GLU:HB2	0.50	2.20
1:P:95:GLY:HA2	1:P:130:PRO:HG3	0.50	1.82
1:S:19:SER:N	1:S:20:PRO:CD	0.50	2.74
1:U:81:VAL:HB	1:U:141:GLY:O	0.50	2.07
1:X:124:ILE:HD12	1:X:127:ASP:HB2	0.50	1.84
1:A:174:LYS:C	1:E:1:MET:H1	0.50	2.14
1:C:14:PHE:N	1:W:169:VAL:CG2	0.50	2.74
1:D:27:PHE:N	1:E:163:ARG:HG3	0.50	2.21
1:E:116:ARG:HD2	1:F:116:ARG:HD2	0.50	1.82
1:H:100:VAL:HG12	1:H:120:ARG:HB2	0.50	1.81
1:J:126:ALA:O	1:J:149:ARG:HB2	0.50	2.06
1:M:163:ARG:NE	1:S:15:PHE:O	0.50	2.41
1:P:85:SER:OG	1:P:104:HIS:HB2	0.50	2.06
1:T:55:LEU:HD13	1:T:58:PRO:HG2	0.50	1.83
1:U:19:SER:N	1:U:20:PRO:CD	0.50	2.74
1:X:55:LEU:HD13	1:X:58:PRO:HG2	0.50	1.84

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:H:72:LYS:CB	1:I:46:PRO:HD3	0.50	2.37
1:K:161:ILE:HG22	1:K:162:THR:H	0.50	1.66
1:O:69:ARG:HG2	1:O:70:LEU:N	0.50	2.22
1:P:15:PHE:HA	1:P:18:HIS:HB2	0.50	1.84
1:U:124:ILE:HB	1:U:127:ASP:HB2	0.50	1.84
1:A:11:ARG:HB3	1:J:22:ARG:N	0.49	2.22
1:A:164:GLU:O	1:F:139:SER:HB2	0.49	2.07
1:D:30:GLU:HB2	1:E:165:GLU:OE2	0.49	2.06
1:F:137:LEU:HD13	1:F:143:LEU:HD23	0.49	1.83
1:G:154:GLY:O	1:L:131:LEU:HG	0.49	2.07
1:K:95:GLY:HA2	1:K:130:PRO:HG3	0.49	1.84
1:M:81:VAL:HB	1:M:141:GLY:O	0.49	2.07
1:M:169:VAL:HG11	1:S:10:ILE:HA	0.49	1.82
1:N:26:GLN:H	1:O:163:ARG:HE	0.49	1.49
1:N:85:SER:OG	1:N:104:HIS:HB2	0.49	2.06
1:N:133:ILE:HD13	1:N:147:GLY:HA3	0.49	1.83
1:P:18:HIS:O	1:P:19:SER:CB	0.49	2.59
1:S:43:SER:O	1:X:72:LYS:HD3	0.49	2.05
1:V:22:ARG:HG3	1:V:23:LEU:HD11	0.49	1.82
1:V:164:GLU:HG3	1:V:167:PRO:CD	0.49	2.31
1:W:72:LYS:HD2	1:W:127:ASP:OD2	0.49	2.07
1:W:165:GLU:HB3	1:W:166:LYS:HD3	0.49	1.84
1:D:55:LEU:HD13	1:D:58:PRO:HG2	0.49	1.83
1:G:15:PHE:N	1:X:21:SER:OG	0.49	2.45
1:I:72:LYS:HD2	1:I:127:ASP:OD2	0.49	2.07
1:J:72:LYS:HG2	1:K:46:PRO:HD3	0.49	1.84
1:K:17:PHE:CD2	1:O:168:ALA:HB2	0.49	2.41
1:K:156:GLU:HG3	1:K:157:ARG:H	0.49	1.68
1:M:32:LEU:HD13	1:M:49:LEU:HD13	0.49	1.83
1:M:42:THR:C	1:M:44:LEU:H	0.49	2.15
1:P:23:LEU:O	1:Q:163:ARG:HD3	0.49	2.08
1:Q:42:THR:C	1:Q:44:LEU:H	0.49	2.15
1:R:84:PHE:HB3	1:R:139:SER:O	0.49	2.07
1:T:27:PHE:HD1	1:U:165:GLU:HA	0.49	1.66
1:T:131:LEU:HG	1:U:154:GLY:O	0.49	2.07
1:T:137:LEU:HD13	1:T:143:LEU:HD23	0.49	1.84
1:V:26:GLN:C	1:W:163:ARG:HG2	0.49	2.31
1:A:18:HIS:NE2	1:J:24:PHE:HB2	0.49	2.22
1:C:10:ILE:HG22	1:C:10:ILE:O	0.49	2.07
1:E:71:GLU:O	1:E:72:LYS:HD3	0.49	2.08
1:E:81:VAL:HB	1:E:141:GLY:O	0.49	2.07
1:G:19:SER:N	1:G:20:PRO:CD	0.49	2.74

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:L:84:PHE:HB3	1:L:139:SER:O	0.49	2.07
1:L:87:GLU:HB2	1:M:12:ARG:HH22	0.49	1.67
1:R:126:ALA:O	1:R:149:ARG:HB2	0.49	2.07
1:A:16:PRO:HB2	1:K:167:PRO:CD	0.49	2.37
1:A:46:PRO:HD3	1:F:72:LYS:CB	0.49	2.38
1:C:18:HIS:CG	1:V:20:PRO:HB2	0.49	2.43
1:E:48:TYR:HE1	1:E:63:THR:HG22	0.49	1.67
1:E:167:PRO:CB	1:U:16:PRO:HD2	0.49	2.35
1:F:21:SER:HB3	1:O:18:HIS:CD2	0.49	2.43
1:I:81:VAL:HB	1:I:141:GLY:O	0.49	2.07
1:O:1:MET:C	1:Q:175:LYS:HB3	0.49	2.32
1:R:19:SER:N	1:R:20:PRO:CD	0.49	2.75
1:W:81:VAL:HB	1:W:141:GLY:O	0.49	2.08
1:W:124:ILE:HB	1:W:127:ASP:HB2	0.49	1.84
1:A:163:ARG:CB	1:F:26:GLN:HB2	0.49	2.34
1:D:151:GLN:HE22	1:E:150:LYS:C	0.49	2.14
1:G:81:VAL:HB	1:G:141:GLY:O	0.49	2.07
1:H:21:SER:HB3	1:W:18:HIS:CB	0.49	2.38
1:H:72:LYS:HE3	1:I:48:TYR:CD2	0.49	2.42
1:K:16:PRO:HG3	1:O:164:GLU:C	0.49	2.32
1:K:20:PRO:O	1:K:24:PHE:HB2	0.49	2.07
1:M:167:PRO:CB	1:S:16:PRO:HD2	0.49	2.37
1:O:2:ASP:HA	1:Q:175:LYS:HD3	0.49	1.84
1:P:139:SER:N	1:Q:164:GLU:HB2	0.49	2.22
1:Q:32:LEU:HD13	1:Q:49:LEU:HD22	0.49	1.85
1:S:40:THR:O	1:S:42:THR:N	0.49	2.46
1:T:19:SER:N	1:T:20:PRO:CD	0.49	2.76
1:A:20:PRO:O	1:A:24:PHE:HB2	0.49	2.07
1:A:154:GLY:O	1:F:131:LEU:HG	0.49	2.07
1:C:32:LEU:HD13	1:C:49:LEU:HD13	0.49	1.83
1:F:87:GLU:HB3	1:O:12:ARG:HH12	0.49	1.67
1:I:163:ARG:HD2	1:W:15:PHE:HD1	0.49	1.67
1:J:23:LEU:HG	1:K:162:THR:OG1	0.49	2.08
1:J:39:PRO:HB3	1:J:43:SER:HA	0.49	1.84
1:J:89:LEU:HD21	1:J:137:LEU:CD2	0.49	2.37
1:J:139:SER:HB2	1:K:165:GLU:O	0.49	2.07
1:P:12:ARG:HB3	1:P:13:PRO:HD3	0.49	1.85
1:P:55:LEU:HD13	1:P:58:PRO:HG2	0.49	1.85
1:R:21:SER:HB3	1:S:18:HIS:CD2	0.49	2.43
1:V:24:PHE:HA	1:W:163:ARG:NE	0.49	2.23
1:W:95:GLY:HA2	1:W:130:PRO:HG3	0.49	1.83
1:A:17:PHE:HB2	1:K:167:PRO:CG	0.49	2.38

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:E:12:ARG:CB	1:E:13:PRO:HD3	0.49	2.37
1:E:13:PRO:C	1:Q:167:PRO:HB2	0.49	2.33
1:E:17:PHE:CD2	1:Q:167:PRO:HD2	0.49	2.43
1:M:164:GLU:HB2	1:R:138:SER:CA	0.49	2.37
1:N:55:LEU:HD13	1:N:58:PRO:HG2	0.49	1.84
1:O:20:PRO:O	1:O:24:PHE:HB2	0.49	2.08
1:O:81:VAL:HB	1:O:141:GLY:O	0.49	2.07
1:P:126:ALA:O	1:P:149:ARG:HB2	0.49	2.08
1:V:81:VAL:HB	1:V:141:GLY:O	0.49	2.06
1:X:85:SER:OG	1:X:104:HIS:HB2	0.49	2.08
1:A:56:ARG:HH12	1:J:31:HIS:CD2	0.49	2.24
1:A:175:LYS:O	1:Q:174:LYS:HB3	0.49	2.08
1:C:13:PRO:HB2	1:W:169:VAL:HG22	0.49	1.82
1:D:12:ARG:HB3	1:D:13:PRO:HD3	0.49	1.85
1:G:149:ARG:O	1:G:150:LYS:HB2	0.49	2.06
1:G:165:GLU:HG3	1:L:27:PHE:HD1	0.49	1.65
1:H:81:VAL:HB	1:H:141:GLY:O	0.49	2.08
1:J:85:SER:OG	1:J:104:HIS:HB2	0.49	2.08
1:M:167:PRO:HD3	1:S:16:PRO:C	0.49	2.33
1:N:39:PRO:HG3	1:N:44:LEU:HB3	0.49	1.84
1:A:175:LYS:OXT	1:E:1:MET:HB3	0.49	2.07
1:E:48:TYR:CE1	1:E:63:THR:HG22	0.49	2.43
1:E:85:SER:OG	1:E:104:HIS:HB2	0.49	2.08
1:H:85:SER:OG	1:H:104:HIS:HB2	0.49	2.08
1:K:120:ARG:HG2	1:L:114:ILE:HG12	0.49	1.85
1:N:89:LEU:HD12	1:N:90:LYS:N	0.49	2.23
1:R:143:LEU:HD13	1:R:144:THR:N	0.49	2.22
1:S:170:THR:HG22	1:S:171:ALA:H	0.49	1.68
1:A:167:PRO:HB3	1:O:16:PRO:CG	0.49	2.37
1:E:14:PHE:HB3	1:P:21:SER:HB2	0.49	1.84
1:G:85:SER:OG	1:G:104:HIS:HB2	0.49	2.08
1:J:29:GLY:HA2	1:K:33:LEU:HD21	0.49	1.85
1:M:19:SER:N	1:M:20:PRO:CD	0.49	2.75
1:O:12:ARG:CB	1:O:13:PRO:HD3	0.49	2.35
1:T:12:ARG:HB3	1:T:13:PRO:HD3	0.49	1.84
1:T:85:SER:OG	1:T:104:HIS:HB2	0.49	2.08
1:T:85:SER:HB3	1:T:88:GLU:HB2	0.49	1.84
1:U:5:ILE:O	1:U:8:PRO:HD2	0.49	2.08
1:C:5:ILE:C	1:C:8:PRO:HD2	0.48	2.33
1:C:149:ARG:O	1:C:150:LYS:HB2	0.48	2.08
1:D:124:ILE:HD12	1:D:127:ASP:HB2	0.48	1.84
1:E:18:HIS:O	1:P:27:PHE:HD2	0.48	1.89

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:H:15:PHE:HA	1:H:18:HIS:HB3	0.48	1.86
1:H:28:PHE:HB2	1:W:19:SER:CB	0.48	2.39
1:I:26:GLN:O	1:I:30:GLU:HG3	0.48	2.08
1:M:154:GLY:O	1:R:131:LEU:HG	0.48	2.08
1:Q:26:GLN:O	1:Q:30:GLU:HG3	0.48	2.08
1:A:17:PHE:HB2	1:K:167:PRO:HG2	0.48	1.83
1:B:143:LEU:HD13	1:B:144:THR:N	0.48	2.22
1:C:15:PHE:O	1:W:163:ARG:CZ	0.48	2.61
1:E:12:ARG:HH22	1:P:87:GLU:HB2	0.48	1.68
1:F:19:SER:N	1:F:20:PRO:CD	0.48	2.76
1:H:21:SER:HB3	1:W:18:HIS:CD2	0.48	2.43
1:H:169:VAL:HG12	1:H:170:THR:H	0.48	1.67
1:L:133:ILE:HD13	1:L:147:GLY:HA3	0.48	1.84
1:M:95:GLY:HA2	1:M:130:PRO:HG3	0.48	1.86
1:O:150:LYS:O	1:O:151:GLN:HB3	0.48	2.08
1:P:89:LEU:HD21	1:P:137:LEU:CD2	0.48	2.37
1:R:55:LEU:HD13	1:R:58:PRO:HG2	0.48	1.84
1:S:48:TYR:CE2	1:X:72:LYS:HE2	0.48	2.43
1:S:149:ARG:O	1:S:150:LYS:HB2	0.48	2.08
1:U:1:MET:HB3	1:W:175:LYS:OXT	0.48	2.08
1:A:11:ARG:O	1:J:22:ARG:HG2	0.48	2.08
1:C:14:PHE:O	1:C:15:PHE:C	0.48	2.55
1:E:161:ILE:HG22	1:E:162:THR:N	0.48	2.23
1:G:45:SER:CA	1:L:72:LYS:HB3	0.48	2.38
1:I:85:SER:OG	1:I:104:HIS:HB2	0.48	2.08
1:J:19:SER:N	1:J:20:PRO:CD	0.48	2.75
1:M:167:PRO:CG	1:M:168:ALA:H	0.48	2.19
1:M:167:PRO:CG	1:M:168:ALA:N	0.48	2.76
1:O:45:SER:HB2	1:O:48:TYR:HB2	0.48	1.84
1:T:81:VAL:HB	1:T:141:GLY:O	0.48	2.09
1:U:40:THR:O	1:U:42:THR:HG23	0.48	2.08
1:A:163:ARG:HD3	1:F:26:GLN:H	0.48	1.64
1:G:163:ARG:NE	1:M:18:HIS:HB3	0.48	2.23
1:I:40:THR:O	1:I:42:THR:N	0.48	2.46
1:J:23:LEU:CB	1:K:163:ARG:HG2	0.48	2.37
1:O:7:HIS:HB3	1:O:11:ARG:NH2	0.48	2.23
1:O:19:SER:N	1:O:20:PRO:CD	0.48	2.76
1:O:40:THR:O	1:O:42:THR:N	0.48	2.47
1:Q:15:PHE:HE1	1:T:22:ARG:CG	0.48	2.22
1:Q:167:PRO:HG2	1:Q:168:ALA:H	0.48	1.67
1:R:12:ARG:HB3	1:R:13:PRO:HD3	0.48	1.85
1:S:164:GLU:HB3	1:X:137:LEU:O	0.48	2.08

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:T:133:ILE:HD13	1:T:147:GLY:HA3	0.48	1.85
1:V:132:THR:HG21	1:V:148:PRO:HG2	0.48	1.84
1:X:69:ARG:HG3	1:X:70:LEU:H	0.48	1.68
1:A:81:VAL:HB	1:A:141:GLY:O	0.48	2.07
1:A:169:VAL:HG11	1:O:10:ILE:HA	0.48	1.86
1:A:171:ALA:HB2	1:O:10:ILE:HD13	0.48	1.85
1:C:120:ARG:HG2	1:D:114:ILE:HG12	0.48	1.84
1:G:10:ILE:HA	1:S:169:VAL:HG11	0.48	1.85
1:H:12:ARG:HB3	1:H:13:PRO:HD3	0.48	1.85
1:I:20:PRO:O	1:I:24:PHE:HB2	0.48	2.08
1:K:81:VAL:HB	1:K:141:GLY:O	0.48	2.08
1:N:26:GLN:H	1:O:163:ARG:NE	0.48	2.06
1:O:167:PRO:CG	1:O:168:ALA:H	0.48	2.21
1:Q:20:PRO:O	1:Q:24:PHE:HB2	0.48	2.09
1:Q:165:GLU:C	1:Q:166:LYS:HG2	0.48	2.32
1:R:28:PHE:HB2	1:S:19:SER:CB	0.48	2.38
1:U:49:LEU:O	1:U:51:PRO:HD3	0.48	2.08
1:W:85:SER:OG	1:W:104:HIS:HB2	0.48	2.08
1:A:44:LEU:HB3	1:F:72:LYS:O	0.48	2.08
1:C:5:ILE:O	1:C:8:PRO:HD2	0.48	2.07
1:G:20:PRO:O	1:G:24:PHE:HB2	0.48	2.09
1:H:26:GLN:CB	1:I:163:ARG:HB3	0.48	2.36
1:K:13:PRO:CB	1:O:169:VAL:HG22	0.48	2.38
1:M:1:MET:HG2	1:O:175:LYS:HD2	0.48	1.86
1:M:49:LEU:O	1:M:51:PRO:HD3	0.48	2.08
1:O:161:ILE:HG22	1:O:162:THR:N	0.48	2.23
1:Q:19:SER:HB3	1:T:28:PHE:HB2	0.48	1.84
1:Q:167:PRO:CG	1:Q:168:ALA:H	0.48	2.22
1:S:163:ARG:HG2	1:X:27:PHE:N	0.48	2.23
1:B:166:LYS:HB2	1:B:167:PRO:CD	0.48	2.32
1:C:18:HIS:CE1	1:V:20:PRO:HG2	0.48	2.44
1:E:167:PRO:CG	1:U:17:PHE:N	0.48	2.77
1:F:12:ARG:HB3	1:F:13:PRO:HD3	0.48	1.85
1:H:87:GLU:HB3	1:W:12:ARG:NH2	0.48	2.23
1:N:148:PRO:HG3	1:O:46:PRO:O	0.48	2.08
1:S:20:PRO:O	1:S:24:PHE:HB2	0.48	2.08
1:S:71:GLU:O	1:S:72:LYS:HD3	0.48	2.09
1:V:72:LYS:HE2	1:W:45:SER:HA	0.48	1.85
1:X:138:SER:HB2	1:X:142:VAL:HB	0.48	1.85
1:A:167:PRO:HG2	1:A:168:ALA:H	0.48	1.69
1:B:72:LYS:HB3	1:C:45:SER:N	0.48	2.24
1:G:40:THR:O	1:G:42:THR:N	0.48	2.46

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:H:137:LEU:HB3	1:I:164:GLU:HG3	0.48	1.86
1:K:16:PRO:CB	1:O:165:GLU:N	0.48	2.77
1:O:85:SER:OG	1:O:104:HIS:HB2	0.48	2.09
1:Q:15:PHE:CB	1:U:163:ARG:HG2	0.48	2.35
1:S:45:SER:CA	1:X:72:LYS:HB3	0.48	2.39
1:U:85:SER:OG	1:U:104:HIS:HB2	0.48	2.09
1:X:132:THR:HG21	1:X:148:PRO:HG2	0.48	1.85
1:C:1:MET:HB3	1:E:175:LYS:C	0.48	2.33
1:C:40:THR:O	1:C:42:THR:N	0.48	2.46
1:C:172:ALA:HB1	1:C:173:PRO:HD2	0.48	1.86
1:D:18:HIS:O	1:D:19:SER:CB	0.48	2.60
1:D:23:LEU:HD13	1:U:15:PHE:CE1	0.48	2.44
1:G:167:PRO:CG	1:M:17:PHE:HB2	0.48	2.38
1:H:132:THR:HG21	1:H:148:PRO:HG2	0.48	1.84
1:M:20:PRO:O	1:M:24:PHE:HB2	0.48	2.09
1:R:22:ARG:C	1:R:23:LEU:HD12	0.48	2.34
1:S:124:ILE:HB	1:S:127:ASP:HB2	0.48	1.86
1:V:12:ARG:HB3	1:V:13:PRO:HD3	0.48	1.85
1:V:138:SER:C	1:W:164:GLU:HB3	0.48	2.34
1:X:133:ILE:HD13	1:X:147:GLY:HA3	0.48	1.86
1:A:69:ARG:HG2	1:A:70:LEU:N	0.48	2.23
1:C:18:HIS:ND1	1:C:19:SER:N	0.48	2.58
1:C:80:ASP:H	1:C:120:ARG:HD2	0.48	1.68
1:D:23:LEU:HD13	1:U:15:PHE:CZ	0.48	2.43
1:D:74:ARG:HG3	1:E:45:SER:O	0.48	2.09
1:E:164:GLU:O	1:E:165:GLU:O	0.48	2.32
1:F:28:PHE:HB2	1:O:19:SER:CB	0.48	2.39
1:J:55:LEU:HD13	1:J:58:PRO:HG2	0.48	1.85
1:K:15:PHE:HD1	1:O:163:ARG:HB2	0.48	1.67
1:K:32:LEU:HD13	1:K:49:LEU:HD13	0.48	1.85
1:M:163:ARG:CZ	1:R:27:PHE:HB3	0.48	2.38
1:M:166:LYS:HG3	1:S:54:PHE:CG	0.48	2.43
1:R:26:GLN:HE22	1:R:137:LEU:H	0.48	1.52
1:T:29:GLY:HA2	1:U:33:LEU:HD21	0.48	1.85
1:V:166:LYS:HB2	1:V:167:PRO:CD	0.48	2.33
1:A:165:GLU:OE2	1:F:30:GLU:HB2	0.47	2.09
1:E:15:PHE:HB2	1:Q:163:ARG:CB	0.47	2.38
1:G:1:MET:H3	1:I:175:LYS:HB3	0.47	1.68
1:J:84:PHE:HB3	1:J:139:SER:O	0.47	2.09
1:K:16:PRO:CD	1:O:167:PRO:HG3	0.47	2.39
1:O:1:MET:HB3	1:Q:175:LYS:C	0.47	2.34
1:Q:33:LEU:O	1:Q:37:LEU:HG	0.47	2.09

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:Q:81:VAL:HB	1:Q:141:GLY:O	0.47	2.09
1:S:95:GLY:HA2	1:S:130:PRO:HG3	0.47	1.84
1:U:69:ARG:HG2	1:U:70:LEU:N	0.47	2.24
1:U:166:LYS:CB	1:U:167:PRO:CD	0.47	2.91
1:A:1:MET:HG2	1:C:175:LYS:HD2	0.47	1.85
1:A:95:GLY:HA2	1:A:130:PRO:HG3	0.47	1.84
1:C:10:ILE:HA	1:W:169:VAL:HG11	0.47	1.85
1:K:170:THR:HG22	1:K:171:ALA:H	0.47	1.70
1:L:55:LEU:HD13	1:L:58:PRO:HG2	0.47	1.85
1:M:12:ARG:HA	1:M:15:PHE:CE2	0.47	2.45
1:V:27:PHE:CD1	1:W:165:GLU:HG3	0.47	2.44
1:V:55:LEU:HD13	1:V:58:PRO:HG2	0.47	1.85
1:W:42:THR:C	1:W:44:LEU:H	0.47	2.16
1:C:1:MET:N	1:E:175:LYS:N	0.47	2.61
1:C:170:THR:O	1:C:171:ALA:HB3	0.47	2.08
1:F:77:VAL:HB	1:F:145:VAL:HG23	0.47	1.86
1:G:16:PRO:HA	1:X:27:PHE:HB2	0.47	1.84
1:G:46:PRO:HD3	1:L:72:LYS:CB	0.47	2.39
1:K:40:THR:O	1:K:42:THR:N	0.47	2.47
1:M:80:ASP:H	1:M:120:ARG:HD2	0.47	1.69
1:R:21:SER:HB2	1:S:14:PHE:C	0.47	2.34
1:V:72:LYS:O	1:W:44:LEU:HB3	0.47	2.10
1:V:133:ILE:HD13	1:V:147:GLY:HA3	0.47	1.86
1:W:69:ARG:HG2	1:W:70:LEU:N	0.47	2.24
1:A:5:ILE:O	1:A:8:PRO:HD2	0.47	2.09
1:A:15:PHE:CB	1:J:23:LEU:HB2	0.47	2.36
1:C:85:SER:OG	1:C:104:HIS:HB2	0.47	2.09
1:D:15:PHE:HA	1:D:18:HIS:HB2	0.47	1.86
1:D:72:LYS:HE3	1:E:48:TYR:CE1	0.47	2.44
1:E:170:THR:HG22	1:E:171:ALA:H	0.47	1.70
1:G:16:PRO:HD2	1:S:167:PRO:CB	0.47	2.36
1:I:149:ARG:O	1:I:150:LYS:HB2	0.47	2.10
1:K:16:PRO:HB2	1:O:165:GLU:CA	0.47	2.39
1:K:26:GLN:O	1:K:30:GLU:HG3	0.47	2.08
1:M:45:SER:CB	1:M:48:TYR:HB2	0.47	2.40
1:M:150:LYS:O	1:M:151:GLN:HB3	0.47	2.09
1:N:19:SER:N	1:N:20:PRO:CD	0.47	2.78
1:N:27:PHE:N	1:O:163:ARG:HG2	0.47	2.24
1:S:85:SER:OG	1:S:104:HIS:HB2	0.47	2.08
1:T:138:SER:CB	1:T:142:VAL:HB	0.47	2.39
1:V:169:VAL:HG12	1:V:170:THR:H	0.47	1.69
1:C:1:MET:C	1:E:175:LYS:HB3	0.47	2.33

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:E:124:ILE:HG23	1:F:111:HIS:HB2	0.47	1.85
1:F:85:SER:OG	1:F:104:HIS:HB2	0.47	2.09
1:G:49:LEU:O	1:G:51:PRO:HD3	0.47	2.10
1:G:72:LYS:HB3	1:G:149:ARG:CZ	0.47	2.39
1:H:33:LEU:HA	1:I:37:LEU:HD13	0.47	1.85
1:J:12:ARG:N	1:J:13:PRO:HD2	0.47	2.25
1:P:138:SER:HB2	1:P:142:VAL:HB	0.47	1.86
1:Q:16:PRO:HB2	1:U:167:PRO:N	0.47	2.24
1:Q:95:GLY:HA2	1:Q:130:PRO:HG3	0.47	1.85
1:R:169:VAL:HG12	1:R:170:THR:N	0.47	2.25
1:S:46:PRO:HD3	1:X:72:LYS:CA	0.47	2.40
1:T:84:PHE:HB3	1:T:139:SER:O	0.47	2.08
1:A:16:PRO:CD	1:K:167:PRO:HB3	0.47	2.37
1:A:40:THR:O	1:A:42:THR:HG23	0.47	2.09
1:D:125:PRO:HG2	1:D:153:SER:HA	0.47	1.87
1:D:148:PRO:HG3	1:E:46:PRO:HB2	0.47	1.85
1:E:18:HIS:ND1	1:P:20:PRO:HB2	0.47	2.23
1:O:42:THR:C	1:O:44:LEU:H	0.47	2.17
1:P:84:PHE:HB3	1:P:139:SER:O	0.47	2.10
1:P:138:SER:CB	1:P:142:VAL:HB	0.47	2.40
1:S:46:PRO:HD3	1:X:72:LYS:CB	0.47	2.40
1:S:80:ASP:H	1:S:120:ARG:HD2	0.47	1.69
1:T:30:GLU:HB2	1:U:165:GLU:OE2	0.47	2.09
1:W:149:ARG:O	1:W:150:LYS:HB2	0.47	2.10
1:A:16:PRO:CB	1:K:165:GLU:C	0.47	2.83
1:A:163:ARG:CA	1:O:15:PHE:HB2	0.47	2.40
1:A:174:LYS:HD3	1:O:1:MET:HB2	0.47	1.87
1:F:46:PRO:O	1:F:47:PHE:HB2	0.47	2.09
1:F:133:ILE:HD13	1:F:147:GLY:HA3	0.47	1.87
1:G:71:GLU:C	1:G:72:LYS:HD2	0.47	2.34
1:H:152:VAL:HG11	1:I:151:GLN:OE1	0.47	2.10
1:J:169:VAL:HG12	1:J:170:THR:N	0.47	2.25
1:L:69:ARG:HE	1:L:70:LEU:H	0.47	1.51
1:L:81:VAL:HB	1:L:141:GLY:O	0.47	2.09
1:M:26:GLN:O	1:M:30:GLU:HG3	0.47	2.09
1:P:138:SER:C	1:Q:164:GLU:HB2	0.47	2.34
1:Q:13:PRO:CB	1:U:169:VAL:HG22	0.47	2.40
1:Q:80:ASP:H	1:Q:120:ARG:HD2	0.47	1.69
1:S:167:PRO:HG2	1:S:168:ALA:H	0.47	1.68
1:A:15:PHE:CE1	1:J:23:LEU:HD23	0.47	2.45
1:C:69:ARG:HG2	1:C:70:LEU:N	0.47	2.24
1:D:85:SER:OG	1:D:104:HIS:HB2	0.47	2.08

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:E:80:ASP:H	1:E:120:ARG:HD2	0.47	1.69
1:F:2:ASP:OD1	1:K:175:LYS:HD2	0.47	2.10
1:H:21:SER:CB	1:W:14:PHE:HB3	0.47	2.35
1:Q:85:SER:OG	1:Q:104:HIS:HB2	0.47	2.09
1:D:26:GLN:HB2	1:E:163:ARG:CG	0.47	2.40
1:D:164:GLU:HG3	1:D:167:PRO:CD	0.47	2.31
1:E:19:SER:N	1:E:20:PRO:CD	0.47	2.76
1:F:81:VAL:HB	1:F:141:GLY:O	0.47	2.09
1:F:81:VAL:HG12	1:F:83:HIS:O	0.47	2.09
1:H:151:GLN:OE1	1:H:152:VAL:HG23	0.47	2.10
1:K:42:THR:C	1:K:44:LEU:H	0.47	2.18
1:L:31:HIS:CD2	1:M:56:ARG:HH12	0.47	2.28
1:M:175:LYS:N	1:Q:1:MET:H3	0.47	2.07
1:P:2:ASP:HB3	1:P:5:ILE:HB	0.47	1.85
1:S:165:GLU:CD	1:X:30:GLU:HB2	0.47	2.34
1:T:72:LYS:HD3	1:U:43:SER:O	0.47	2.10
1:A:164:GLU:HB2	1:F:138:SER:CA	0.47	2.40
1:G:5:ILE:C	1:G:8:PRO:HD2	0.47	2.35
1:I:167:PRO:CG	1:I:168:ALA:N	0.47	2.77
1:L:138:SER:CB	1:L:142:VAL:HB	0.47	2.40
1:M:85:SER:N	1:M:86:PRO:HD3	0.47	2.24
1:N:124:ILE:HD12	1:N:127:ASP:HB2	0.47	1.86
1:R:89:LEU:HD21	1:R:137:LEU:CD2	0.47	2.37
1:X:125:PRO:HG2	1:X:153:SER:HA	0.47	1.87
1:C:18:HIS:CD2	1:V:24:PHE:HB3	0.46	2.45
1:D:24:PHE:CG	1:D:24:PHE:O	0.46	2.69
1:G:16:PRO:CG	1:S:167:PRO:HB3	0.46	2.40
1:H:164:GLU:HG3	1:H:167:PRO:CD	0.46	2.31
1:I:161:ILE:HG22	1:I:162:THR:N	0.46	2.25
1:K:33:LEU:O	1:K:37:LEU:HG	0.46	2.10
1:L:125:PRO:HG2	1:L:153:SER:HA	0.46	1.86
1:L:169:VAL:HG12	1:L:170:THR:N	0.46	2.25
1:M:167:PRO:HG3	1:S:16:PRO:C	0.46	2.35
1:N:74:ARG:HG2	1:O:45:SER:O	0.46	2.10
1:P:125:PRO:HG2	1:P:153:SER:HA	0.46	1.87
1:Q:14:PHE:N	1:U:169:VAL:CG2	0.46	2.78
1:R:31:HIS:CD2	1:S:56:ARG:HH12	0.46	2.28
1:T:169:VAL:HG22	1:T:170:THR:H	0.46	1.69
1:U:166:LYS:CB	1:U:167:PRO:HD3	0.46	2.38
1:W:49:LEU:O	1:W:51:PRO:HD3	0.46	2.10
1:A:5:ILE:C	1:A:8:PRO:HD2	0.46	2.35
1:D:20:PRO:HB2	1:U:18:HIS:CE1	0.46	2.45

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:D:138:SER:CB	1:D:142:VAL:HB	0.46	2.40
1:I:167:PRO:HG3	1:W:17:PHE:N	0.46	2.24
1:J:133:ILE:HD13	1:J:147:GLY:HA3	0.46	1.86
1:K:69:ARG:HG2	1:K:70:LEU:N	0.46	2.25
1:M:163:ARG:HG2	1:R:23:LEU:CB	0.46	2.40
1:N:12:ARG:N	1:N:13:PRO:HD2	0.46	2.25
1:N:169:VAL:HG12	1:N:170:THR:H	0.46	1.70
1:O:49:LEU:O	1:O:51:PRO:HD3	0.46	2.09
1:Q:14:PHE:C	1:T:21:SER:HB2	0.46	2.34
1:S:151:GLN:OE1	1:X:152:VAL:HG11	0.46	2.11
1:S:164:GLU:HB2	1:X:138:SER:CA	0.46	2.41
1:T:139:SER:HB2	1:U:164:GLU:O	0.46	2.10
1:B:12:ARG:N	1:B:13:PRO:HD2	0.46	2.25
1:C:167:PRO:O	1:C:168:ALA:CB	0.46	2.64
1:D:22:ARG:O	1:D:23:LEU:HD12	0.46	2.10
1:E:14:PHE:HB2	1:Q:169:VAL:CG1	0.46	2.40
1:G:12:ARG:HA	1:G:15:PHE:CE1	0.46	2.46
1:G:168:ALA:O	1:M:13:PRO:HB2	0.46	2.11
1:H:133:ILE:HD13	1:H:147:GLY:HA3	0.46	1.86
1:K:85:SER:OG	1:K:104:HIS:HB2	0.46	2.10
1:N:72:LYS:HD3	1:O:48:TYR:CE2	0.46	2.46
1:N:89:LEU:HD23	1:N:137:LEU:CD2	0.46	2.40
1:V:139:SER:HA	1:W:164:GLU:CB	0.46	2.41
1:V:148:PRO:HB3	1:W:46:PRO:HB3	0.46	1.86
1:A:106:GLU:CD	1:A:107:ARG:HG3	0.46	2.36
1:A:169:VAL:HG12	1:A:170:THR:H	0.46	1.70
1:C:161:ILE:HG22	1:C:162:THR:N	0.46	2.25
1:D:72:LYS:NZ	1:E:45:SER:HB2	0.46	2.26
1:G:10:ILE:HD13	1:S:171:ALA:HB2	0.46	1.88
1:H:166:LYS:HB2	1:H:167:PRO:CD	0.46	2.32
1:I:106:GLU:CD	1:I:107:ARG:HG3	0.46	2.36
1:I:169:VAL:HG23	1:W:14:PHE:CG	0.46	2.45
1:J:30:GLU:HB2	1:K:165:GLU:OE2	0.46	2.11
1:M:165:GLU:C	1:S:16:PRO:CB	0.46	2.84
1:O:106:GLU:CD	1:O:107:ARG:HG3	0.46	2.36
1:A:124:ILE:HG23	1:B:111:HIS:HB2	0.46	1.86
1:C:16:PRO:CA	1:V:27:PHE:HB2	0.46	2.40
1:C:174:LYS:CE	1:K:174:LYS:HG2	0.46	2.40
1:D:43:SER:O	1:D:44:LEU:HB2	0.46	2.10
1:E:16:PRO:HB2	1:Q:167:PRO:CD	0.46	2.41
1:G:15:PHE:HB2	1:S:163:ARG:CA	0.46	2.41
1:I:124:ILE:HG13	1:I:128:VAL:HG23	0.46	1.88

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:K:14:PHE:N	1:O:169:VAL:CG2	0.46	2.79
1:L:132:THR:HG21	1:L:148:PRO:HG2	0.46	1.87
1:L:165:GLU:HG3	1:L:165:GLU:O	0.46	2.11
1:O:1:MET:HB3	1:Q:175:LYS:OXT	0.46	2.11
1:P:151:GLN:NE2	1:Q:151:GLN:HA	0.46	2.26
1:Q:18:HIS:HB3	1:U:163:ARG:NE	0.46	2.24
1:Q:106:GLU:CD	1:Q:107:ARG:HG3	0.46	2.36
1:T:27:PHE:H	1:U:163:ARG:CZ	0.46	2.23
1:V:130:PRO:HB2	1:W:155:PRO:HA	0.46	1.86
1:W:164:GLU:O	1:W:165:GLU:C	0.46	2.59
1:A:163:ARG:HG3	1:O:15:PHE:C	0.46	2.35
1:B:152:VAL:HG11	1:C:151:GLN:OE1	0.46	2.11
1:C:106:GLU:CD	1:C:107:ARG:HG3	0.46	2.36
1:E:12:ARG:C	1:E:14:PHE:H	0.46	2.18
1:E:16:PRO:C	1:Q:167:PRO:HG3	0.46	2.35
1:E:33:LEU:O	1:E:37:LEU:HG	0.46	2.10
1:G:15:PHE:C	1:G:17:PHE:H	0.46	2.18
1:G:106:GLU:CD	1:G:107:ARG:HG3	0.46	2.36
1:G:167:PRO:HB3	1:M:16:PRO:CG	0.46	2.41
1:H:55:LEU:HD13	1:H:58:PRO:HG2	0.46	1.85
1:M:149:ARG:O	1:M:150:LYS:HB2	0.46	2.09
1:N:72:LYS:CA	1:O:46:PRO:HD3	0.46	2.40
1:P:44:LEU:O	1:P:45:SER:HB2	0.46	2.11
1:S:42:THR:C	1:S:44:LEU:H	0.46	2.19
1:U:5:ILE:C	1:U:8:PRO:HD2	0.46	2.35
1:U:150:LYS:O	1:U:151:GLN:HB3	0.46	2.10
1:W:106:GLU:CD	1:W:107:ARG:HG3	0.46	2.36
1:B:74:ARG:HG2	1:C:45:SER:O	0.46	2.11
1:D:21:SER:HB2	1:U:15:PHE:N	0.46	2.26
1:D:29:GLY:HA2	1:E:33:LEU:HD21	0.46	1.87
1:E:9:TRP:O	1:E:12:ARG:HB2	0.46	2.11
1:E:45:SER:HB2	1:E:48:TYR:HB2	0.46	1.86
1:E:167:PRO:HD3	1:U:16:PRO:C	0.46	2.36
1:F:151:GLN:OE1	1:F:152:VAL:HG23	0.46	2.11
1:K:16:PRO:CA	1:N:27:PHE:HB2	0.46	2.35
1:K:106:GLU:CD	1:K:107:ARG:HG3	0.46	2.36
1:M:106:GLU:CD	1:M:107:ARG:HG3	0.46	2.36
1:Q:18:HIS:HB3	1:U:163:ARG:HE	0.46	1.71
1:Q:45:SER:OG	1:Q:48:TYR:HB2	0.46	2.10
1:T:74:ARG:HG2	1:U:45:SER:O	0.46	2.11
1:X:46:PRO:O	1:X:47:PHE:HB2	0.46	2.11
1:A:167:PRO:CG	1:A:168:ALA:H	0.46	2.24

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:C:111:HIS:HB2	1:D:124:ILE:HG23	0.46	1.87
1:C:125:PRO:O	1:C:151:GLN:HB3	0.46	2.10
1:D:106:GLU:CD	1:D:107:ARG:HG3	0.46	2.36
1:G:167:PRO:CG	1:G:168:ALA:H	0.46	2.23
1:H:27:PHE:H	1:I:163:ARG:CD	0.46	2.23
1:H:150:LYS:NZ	1:I:152:VAL:HG23	0.46	2.26
1:L:22:ARG:O	1:L:23:LEU:HD22	0.46	2.11
1:M:164:GLU:O	1:M:165:GLU:O	0.46	2.34
1:N:106:GLU:CD	1:N:107:ARG:HG3	0.46	2.36
1:A:125:PRO:O	1:A:151:GLN:HB3	0.46	2.11
1:B:22:ARG:O	1:B:23:LEU:HD22	0.46	2.11
1:C:72:LYS:HD2	1:C:127:ASP:OD2	0.46	2.11
1:D:23:LEU:HD22	1:U:15:PHE:CE2	0.46	2.46
1:D:89:LEU:HD21	1:D:137:LEU:CD2	0.46	2.40
1:F:106:GLU:CD	1:F:107:ARG:HG3	0.46	2.36
1:F:150:LYS:HZ2	1:F:151:GLN:HE21	0.46	1.53
1:G:1:MET:H1	1:I:175:LYS:N	0.46	2.09
1:H:74:ARG:HG2	1:I:45:SER:O	0.46	2.11
1:J:130:PRO:HB2	1:K:155:PRO:HA	0.46	1.86
1:O:72:LYS:HD2	1:O:127:ASP:OD2	0.46	2.11
1:O:169:VAL:HG12	1:O:170:THR:H	0.46	1.71
1:Q:85:SER:N	1:Q:86:PRO:HD3	0.46	2.26
1:R:23:LEU:HD13	1:S:15:PHE:CE1	0.46	2.46
1:C:85:SER:N	1:C:86:PRO:HD3	0.46	2.26
1:D:44:LEU:O	1:D:45:SER:HB2	0.46	2.10
1:E:120:ARG:HG2	1:F:114:ILE:HG12	0.46	1.88
1:E:167:PRO:CG	1:E:168:ALA:H	0.46	2.20
1:J:125:PRO:HG2	1:J:153:SER:HA	0.46	1.87
1:L:19:SER:N	1:L:20:PRO:CD	0.46	2.78
1:L:22:ARG:HG3	1:L:23:LEU:CD2	0.46	2.41
1:M:165:GLU:C	1:M:166:LYS:HD3	0.46	2.36
1:Q:120:ARG:HG2	1:R:114:ILE:HG12	0.46	1.86
1:T:33:LEU:HA	1:U:37:LEU:HD13	0.46	1.87
1:T:132:THR:HG21	1:T:148:PRO:HG2	0.46	1.87
1:W:165:GLU:C	1:W:166:LYS:HD3	0.46	2.35
1:A:1:MET:O	1:A:2:ASP:C	0.45	2.59
1:A:167:PRO:CG	1:A:168:ALA:N	0.45	2.78
1:C:33:LEU:O	1:C:37:LEU:HG	0.45	2.12
1:D:163:ARG:O	1:D:163:ARG:HD3	0.45	2.11
1:E:163:ARG:CZ	1:U:18:HIS:HB3	0.45	2.41
1:G:18:HIS:O	1:X:27:PHE:HD2	0.45	1.93
1:G:19:SER:CB	1:X:28:PHE:HB2	0.45	2.41

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:H:14:PHE:O	1:H:18:HIS:HB2	0.45	2.11
1:K:72:LYS:HD2	1:K:127:ASP:OD2	0.45	2.10
1:Q:11:ARG:O	1:T:22:ARG:HG2	0.45	2.11
1:R:24:PHE:CE2	1:S:19:SER:HA	0.45	2.46
1:A:18:HIS:HB3	1:K:163:ARG:CZ	0.45	2.42
1:B:29:GLY:HA2	1:C:33:LEU:HD21	0.45	1.89
1:B:162:THR:O	1:B:163:ARG:HB3	0.45	2.12
1:H:162:THR:O	1:H:163:ARG:HB3	0.45	2.11
1:I:167:PRO:O	1:I:168:ALA:HB3	0.45	2.11
1:I:169:VAL:HG22	1:W:13:PRO:CB	0.45	2.40
1:J:165:GLU:HG3	1:J:165:GLU:O	0.45	2.12
1:L:124:ILE:HD12	1:L:127:ASP:HB2	0.45	1.86
1:M:1:MET:O	1:M:2:ASP:C	0.45	2.59
1:N:33:LEU:HA	1:O:37:LEU:HD13	0.45	1.86
1:N:130:PRO:O	1:O:156:GLU:HB3	0.45	2.11
1:O:120:ARG:HG2	1:P:114:ILE:HG12	0.45	1.88
1:Q:124:ILE:CG2	1:R:111:HIS:HB2	0.45	2.41
1:Q:167:PRO:O	1:Q:168:ALA:HB3	0.45	2.10
1:S:120:ARG:HG2	1:T:114:ILE:HG12	0.45	1.87
1:T:106:GLU:CD	1:T:107:ARG:HG3	0.45	2.36
1:A:151:GLN:OE1	1:F:152:VAL:HG11	0.45	2.10
1:E:106:GLU:CD	1:E:107:ARG:HG3	0.45	2.36
1:E:171:ALA:HB2	1:U:10:ILE:HD13	0.45	1.88
1:G:15:PHE:CD1	1:X:23:LEU:HB2	0.45	2.46
1:G:42:THR:C	1:G:44:LEU:H	0.45	2.18
1:G:114:ILE:HG12	1:H:120:ARG:HG2	0.45	1.88
1:I:163:ARG:O	1:I:165:GLU:N	0.45	2.49
1:J:106:GLU:CD	1:J:107:ARG:HG3	0.45	2.36
1:J:124:ILE:HD12	1:J:127:ASP:HB2	0.45	1.87
1:K:80:ASP:H	1:K:120:ARG:HD2	0.45	1.71
1:N:22:ARG:HG3	1:N:23:LEU:CD2	0.45	2.42
1:O:85:SER:N	1:O:86:PRO:HD3	0.45	2.27
1:S:45:SER:HA	1:X:72:LYS:HB3	0.45	1.87
1:T:72:LYS:CA	1:U:46:PRO:HD3	0.45	2.40
1:U:170:THR:HG22	1:U:171:ALA:H	0.45	1.70
1:X:163:ARG:O	1:X:163:ARG:HD3	0.45	2.12
1:A:17:PHE:N	1:K:167:PRO:CG	0.45	2.80
1:A:163:ARG:HD2	1:F:23:LEU:O	0.45	2.11
1:C:169:VAL:CG2	1:I:14:PHE:N	0.45	2.79
1:D:166:LYS:CB	1:D:167:PRO:HD3	0.45	2.39
1:G:125:PRO:O	1:G:151:GLN:HB3	0.45	2.12
1:G:161:ILE:HG22	1:G:162:THR:N	0.45	2.26

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:H:27:PHE:HD2	1:W:18:HIS:O	0.45	1.94
1:I:42:THR:C	1:I:44:LEU:H	0.45	2.20
1:J:138:SER:HB2	1:J:142:VAL:HB	0.45	1.88
1:P:72:LYS:NZ	1:Q:45:SER:HB2	0.45	2.26
1:Q:19:SER:CB	1:T:28:PHE:HB2	0.45	2.41
1:R:162:THR:O	1:R:163:ARG:HB3	0.45	2.11
1:T:129:ASP:O	1:T:132:THR:HG22	0.45	2.12
1:U:106:GLU:CD	1:U:107:ARG:HG3	0.45	2.36
1:U:125:PRO:O	1:U:151:GLN:HG2	0.45	2.12
1:X:106:GLU:CD	1:X:107:ARG:HG3	0.45	2.36
1:F:132:THR:HG21	1:F:148:PRO:HG2	0.45	1.87
1:G:46:PRO:HD2	1:G:48:TYR:CD1	0.45	2.46
1:G:151:GLN:OE1	1:L:152:VAL:HG11	0.45	2.11
1:H:18:HIS:O	1:H:19:SER:HB2	0.45	2.11
1:L:22:ARG:C	1:L:23:LEU:HD22	0.45	2.36
1:N:29:GLY:CA	1:O:33:LEU:HD21	0.45	2.41
1:P:26:GLN:NE2	1:P:136:SER:HB2	0.45	2.27
1:P:139:SER:HB3	1:Q:166:LYS:NZ	0.45	2.26
1:R:106:GLU:CD	1:R:107:ARG:HG3	0.45	2.36
1:S:106:GLU:CD	1:S:107:ARG:HG3	0.45	2.36
1:T:15:PHE:HA	1:T:18:HIS:HB3	0.45	1.88
1:U:15:PHE:CB	1:U:16:PRO:HD3	0.45	2.33
1:W:15:PHE:CB	1:W:16:PRO:CD	0.45	2.90
1:A:42:THR:C	1:A:44:LEU:H	0.45	2.19
1:B:31:HIS:CD2	1:I:56:ARG:HH12	0.45	2.28
1:B:148:PRO:HG3	1:C:46:PRO:O	0.45	2.12
1:C:16:PRO:HB3	1:W:163:ARG:HG3	0.45	1.87
1:D:46:PRO:O	1:D:47:PHE:HB2	0.45	2.12
1:E:18:HIS:CD2	1:P:24:PHE:N	0.45	2.84
1:F:20:PRO:O	1:O:11:ARG:HG3	0.45	2.12
1:G:167:PRO:O	1:G:168:ALA:HB3	0.45	2.12
1:I:33:LEU:O	1:I:37:LEU:HG	0.45	2.12
1:J:162:THR:O	1:J:163:ARG:HB3	0.45	2.11
1:K:14:PHE:O	1:N:21:SER:HB2	0.45	2.12
1:L:12:ARG:HB3	1:L:13:PRO:HD3	0.45	1.88
1:L:162:THR:O	1:L:163:ARG:HB3	0.45	2.11
1:P:69:ARG:HE	1:P:70:LEU:H	0.45	1.53
1:P:148:PRO:HB3	1:Q:46:PRO:HB3	0.45	1.89
1:R:165:GLU:HG3	1:R:165:GLU:O	0.45	2.11
1:T:163:ARG:O	1:T:163:ARG:HD3	0.45	2.12
1:U:120:ARG:HG2	1:V:114:ILE:HG12	0.45	1.89
1:V:14:PHE:O	1:V:18:HIS:HB2	0.45	2.11

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:V:27:PHE:HB3	1:W:163:ARG:NE	0.45	2.24
1:V:106:GLU:CD	1:V:107:ARG:HG3	0.45	2.36
1:W:111:HIS:HB2	1:X:124:ILE:HG23	0.45	1.89
1:W:120:ARG:HG2	1:X:114:ILE:HG12	0.45	1.88
1:B:21:SER:OG	1:B:22:ARG:N	0.45	2.50
1:B:79:LEU:HD12	1:B:143:LEU:HG	0.45	1.89
1:D:20:PRO:HB2	1:U:18:HIS:NE2	0.45	2.27
1:F:125:PRO:HG2	1:F:153:SER:HA	0.45	1.89
1:G:17:PHE:N	1:S:167:PRO:CG	0.45	2.78
1:H:106:GLU:CD	1:H:107:ARG:HG3	0.45	2.36
1:H:125:PRO:HG2	1:H:153:SER:HA	0.45	1.89
1:I:19:SER:N	1:I:20:PRO:CD	0.45	2.78
1:L:151:GLN:OE1	1:L:152:VAL:HG23	0.45	2.12
1:O:1:MET:N	1:Q:175:LYS:N	0.45	2.63
1:Q:149:ARG:O	1:Q:150:LYS:HB3	0.45	2.12
1:S:33:LEU:O	1:S:37:LEU:HG	0.45	2.12
1:X:151:GLN:OE1	1:X:152:VAL:HG23	0.45	2.12
1:A:49:LEU:O	1:A:51:PRO:HD3	0.45	2.12
1:B:106:GLU:CD	1:B:107:ARG:HG3	0.45	2.36
1:C:73:ASP:O	1:C:74:ARG:C	0.45	2.60
1:J:23:LEU:HB3	1:K:163:ARG:CG	0.45	2.40
1:J:174:LYS:HG2	1:J:175:LYS:H	0.45	1.72
1:M:124:ILE:HD12	1:M:127:ASP:HB3	0.45	1.88
1:Q:19:SER:N	1:Q:20:PRO:CD	0.45	2.79
1:R:138:SER:CB	1:R:142:VAL:HB	0.45	2.42
1:S:175:LYS:N	1:W:1:MET:N	0.45	2.64
1:T:72:LYS:HE2	1:U:48:TYR:CE2	0.45	2.46
1:U:124:ILE:CG2	1:V:111:HIS:HB2	0.45	2.42
1:A:18:HIS:C	1:A:20:PRO:HD3	0.45	2.37
1:C:71:GLU:O	1:C:71:GLU:HG2	0.45	2.12
1:H:69:ARG:HE	1:H:70:LEU:H	0.45	1.53
1:M:151:GLN:HA	1:R:151:GLN:NE2	0.45	2.27
1:N:162:THR:O	1:N:163:ARG:HB3	0.45	2.11
1:N:166:LYS:HB2	1:N:167:PRO:CD	0.45	2.33
1:P:46:PRO:O	1:P:47:PHE:HB2	0.45	2.12
1:Q:69:ARG:HG2	1:Q:126:ALA:CB	0.45	2.42
1:S:44:LEU:C	1:X:72:LYS:HB3	0.45	2.36
1:B:15:PHE:HA	1:B:18:HIS:HB2	0.45	1.88
1:D:72:LYS:HB3	1:E:46:PRO:HD2	0.45	1.88
1:E:32:LEU:HD13	1:E:49:LEU:HD22	0.45	1.88
1:K:38:PHE:O	1:K:40:THR:N	0.45	2.50
1:K:162:THR:OG1	1:K:163:ARG:N	0.45	2.50

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:M:1:MET:H1	1:O:175:LYS:N	0.45	2.09
1:M:111:HIS:HB2	1:N:124:ILE:HG23	0.45	1.88
1:N:23:LEU:O	1:O:163:ARG:HD2	0.45	2.12
1:P:18:HIS:C	1:P:20:PRO:HD3	0.45	2.36
1:P:150:LYS:HE3	1:Q:152:VAL:HG23	0.45	1.89
1:Q:69:ARG:HD3	1:Q:70:LEU:H	0.45	1.71
1:V:72:LYS:HE3	1:W:48:TYR:CG	0.45	2.47
1:D:130:PRO:HB2	1:E:155:PRO:HA	0.44	1.89
1:D:150:LYS:HE3	1:E:152:VAL:HG23	0.44	1.89
1:F:69:ARG:HE	1:F:70:LEU:H	0.44	1.55
1:G:48:TYR:CZ	1:L:72:LYS:HD3	0.44	2.47
1:I:164:GLU:O	1:I:165:GLU:C	0.44	2.59
1:K:15:PHE:CE1	1:N:23:LEU:HG	0.44	2.47
1:K:167:PRO:O	1:K:168:ALA:HB3	0.44	2.12
1:L:137:LEU:HD13	1:L:143:LEU:HD23	0.44	1.90
1:P:106:GLU:CD	1:P:107:ARG:HG3	0.44	2.36
1:P:165:GLU:O	1:P:165:GLU:HG3	0.44	2.12
1:Q:167:PRO:CG	1:Q:168:ALA:N	0.44	2.78
1:S:124:ILE:HG23	1:T:111:HIS:HB2	0.44	1.88
1:S:163:ARG:CD	1:X:27:PHE:H	0.44	2.25
1:V:150:LYS:HG2	1:W:152:VAL:HB	0.44	1.88
1:W:124:ILE:HG23	1:X:111:HIS:HB2	0.44	1.88
1:A:1:MET:N	1:C:175:LYS:HB3	0.44	2.27
1:A:33:LEU:HD21	1:F:29:GLY:HA2	0.44	1.90
1:B:169:VAL:HG22	1:B:170:THR:N	0.44	2.27
1:D:21:SER:CB	1:U:14:PHE:HB3	0.44	2.43
1:D:77:VAL:HB	1:D:145:VAL:HG23	0.44	1.89
1:G:1:MET:HG2	1:I:175:LYS:HD2	0.44	1.87
1:I:124:ILE:HG23	1:J:111:HIS:HB2	0.44	1.88
1:I:167:PRO:HG3	1:W:16:PRO:CA	0.44	2.43
1:K:56:ARG:HH12	1:N:31:HIS:CD2	0.44	2.30
1:M:1:MET:H3	1:O:175:LYS:CB	0.44	2.25
1:M:163:ARG:CG	1:R:26:GLN:HB2	0.44	2.42
1:P:72:LYS:HD2	1:Q:48:TYR:CZ	0.44	2.47
1:P:162:THR:O	1:P:163:ARG:HB3	0.44	2.11
1:R:23:LEU:CB	1:S:15:PHE:HB3	0.44	2.42
1:R:125:PRO:HG2	1:R:153:SER:HA	0.44	1.90
1:V:79:LEU:HD12	1:V:143:LEU:HD12	0.44	1.88
1:X:12:ARG:HB3	1:X:13:PRO:HD3	0.44	1.88
1:A:170:THR:HG22	1:A:171:ALA:H	0.44	1.73
1:C:45:SER:HB2	1:C:48:TYR:HB2	0.44	1.88
1:E:167:PRO:CG	1:U:16:PRO:HB2	0.44	2.43

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:F:21:SER:OG	1:F:22:ARG:N	0.44	2.48
1:F:169:VAL:HG22	1:F:170:THR:N	0.44	2.27
1:G:163:ARG:HG2	1:L:27:PHE:H	0.44	1.72
1:H:85:SER:HB3	1:H:88:GLU:HB2	0.44	1.89
1:H:138:SER:C	1:I:164:GLU:HB3	0.44	2.38
1:J:150:LYS:HE3	1:K:152:VAL:HG23	0.44	1.88
1:K:16:PRO:HB3	1:O:165:GLU:N	0.44	2.27
1:K:19:SER:HA	1:N:24:PHE:CE2	0.44	2.47
1:P:77:VAL:HB	1:P:145:VAL:HG23	0.44	1.88
1:R:79:LEU:HD12	1:R:143:LEU:HG	0.44	1.88
1:U:165:GLU:O	1:U:167:PRO:HD2	0.44	2.12
1:A:12:ARG:HA	1:A:15:PHE:CE1	0.44	2.48
1:A:165:GLU:CD	1:F:30:GLU:HB2	0.44	2.37
1:B:23:LEU:O	1:C:163:ARG:NE	0.44	2.50
1:C:46:PRO:HD2	1:C:48:TYR:CD1	0.44	2.47
1:C:175:LYS:OXT	1:K:174:LYS:HB3	0.44	2.12
1:E:167:PRO:CG	1:E:168:ALA:N	0.44	2.77
1:G:163:ARG:NE	1:M:15:PHE:O	0.44	2.46
1:H:24:PHE:HB2	1:W:19:SER:CB	0.44	2.34
1:H:130:PRO:O	1:I:156:GLU:HB3	0.44	2.12
1:K:111:HIS:HB2	1:L:124:ILE:HG23	0.44	1.90
1:M:120:ARG:HG2	1:N:114:ILE:HG12	0.44	1.88
1:M:165:GLU:HA	1:S:16:PRO:O	0.44	2.13
1:O:124:ILE:CG2	1:P:111:HIS:HB2	0.44	2.43
1:P:89:LEU:HD21	1:P:137:LEU:HD22	0.44	1.89
1:S:85:SER:N	1:S:86:PRO:HD3	0.44	2.27
1:S:174:LYS:C	1:W:1:MET:H3	0.44	2.21
1:V:162:THR:O	1:V:163:ARG:HB3	0.44	2.11
1:A:161:ILE:HG22	1:A:162:THR:N	0.44	2.26
1:C:16:PRO:HD2	1:W:167:PRO:CB	0.44	2.41
1:D:26:GLN:NE2	1:D:137:LEU:H	0.44	2.10
1:E:17:PHE:H	1:Q:167:PRO:HG3	0.44	1.64
1:F:138:SER:CB	1:F:142:VAL:HB	0.44	2.42
1:G:33:LEU:O	1:G:37:LEU:HG	0.44	2.12
1:G:45:SER:N	1:L:72:LYS:HB3	0.44	2.28
1:G:132:THR:OG1	1:G:148:PRO:HD2	0.44	2.12
1:L:106:GLU:CD	1:L:107:ARG:HG3	0.44	2.36
1:M:170:THR:HG22	1:M:171:ALA:H	0.44	1.71
1:N:159:ILE:HD13	1:N:159:ILE:N	0.44	2.28
1:O:15:PHE:C	1:O:17:PHE:H	0.44	2.21
1:O:167:PRO:CG	1:O:168:ALA:N	0.44	2.81
1:R:46:PRO:O	1:R:47:PHE:HB2	0.44	2.13

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:T:14:PHE:O	1:T:18:HIS:HB2	0.44	2.11
1:W:33:LEU:O	1:W:37:LEU:HG	0.44	2.13
1:C:7:HIS:HB2	1:C:8:PRO:HD3	0.44	1.89
1:C:14:PHE:CG	1:W:169:VAL:HG23	0.44	2.47
1:H:89:LEU:HD12	1:H:89:LEU:C	0.44	2.37
1:N:130:PRO:HB2	1:O:155:PRO:HA	0.44	1.89
1:R:23:LEU:HD13	1:S:15:PHE:CD1	0.44	2.46
1:S:167:PRO:CG	1:S:168:ALA:N	0.44	2.78
1:V:134:THR:HG22	1:W:158:THR:O	0.44	2.13
1:V:150:LYS:HZ2	1:V:151:GLN:HE21	0.44	1.55
1:A:124:ILE:HG13	1:A:128:VAL:HG23	0.44	1.89
1:A:162:THR:OG1	1:A:163:ARG:N	0.44	2.51
1:A:167:PRO:HB2	1:O:13:PRO:C	0.44	2.37
1:B:77:VAL:HB	1:B:145:VAL:HG23	0.44	1.90
1:B:137:LEU:HD13	1:B:143:LEU:CD2	0.44	2.43
1:C:72:LYS:HB3	1:C:149:ARG:CZ	0.44	2.42
1:F:24:PHE:CE2	1:O:19:SER:HA	0.44	2.48
1:G:120:ARG:HG2	1:H:114:ILE:HG12	0.44	1.89
1:I:111:HIS:HB2	1:J:124:ILE:HG23	0.44	1.89
1:N:72:LYS:HD3	1:O:48:TYR:CZ	0.44	2.48
1:P:15:PHE:N	1:P:16:PRO:CD	0.44	2.81
1:Q:18:HIS:C	1:Q:20:PRO:HD3	0.44	2.37
1:S:167:PRO:CG	1:S:168:ALA:H	0.44	2.24
1:U:69:ARG:HG3	1:U:126:ALA:CB	0.44	2.43
1:U:85:SER:N	1:U:86:PRO:HD3	0.44	2.27
1:W:20:PRO:O	1:W:24:PHE:HB2	0.44	2.13
1:W:71:GLU:O	1:W:71:GLU:HG2	0.44	2.12
1:B:15:PHE:N	1:B:16:PRO:CD	0.44	2.81
1:C:42:THR:C	1:C:44:LEU:H	0.44	2.20
1:E:124:ILE:HG13	1:E:128:VAL:HG23	0.44	1.88
1:E:169:VAL:HG23	1:U:14:PHE:CG	0.44	2.48
1:G:162:THR:OG1	1:G:163:ARG:N	0.44	2.50
1:H:130:PRO:HB2	1:I:155:PRO:HA	0.44	1.88
1:I:167:PRO:CG	1:I:168:ALA:H	0.44	2.24
1:J:137:LEU:HD23	1:K:164:GLU:OE2	0.44	2.13
1:K:14:PHE:HB3	1:N:21:SER:CB	0.44	2.39
1:L:135:SER:OG	1:L:143:LEU:HD11	0.44	2.13
1:P:23:LEU:O	1:P:25:ASP:N	0.44	2.51
1:P:26:GLN:HB3	1:Q:163:ARG:HB3	0.44	1.88
1:V:70:LEU:HD12	1:V:71:GLU:HG2	0.44	1.89
1:A:16:PRO:HB3	1:K:165:GLU:N	0.44	2.27
1:A:124:ILE:CG2	1:B:111:HIS:HB2	0.44	2.43

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:B:72:LYS:HE3	1:C:43:SER:O	0.44	2.12
1:C:163:ARG:N	1:I:15:PHE:CD1	0.44	2.85
1:D:131:LEU:HA	1:E:156:GLU:HB2	0.44	1.89
1:G:124:ILE:CG2	1:H:111:HIS:HB2	0.44	2.43
1:I:1:MET:HB3	1:K:175:LYS:C	0.44	2.37
1:J:14:PHE:O	1:J:18:HIS:HB2	0.44	2.13
1:J:46:PRO:O	1:J:47:PHE:HB2	0.44	2.13
1:K:5:ILE:C	1:K:8:PRO:HD2	0.44	2.38
1:O:124:ILE:HG23	1:P:111:HIS:HB2	0.44	1.90
1:O:167:PRO:O	1:O:168:ALA:HB3	0.44	2.13
1:P:10:ILE:O	1:P:13:PRO:HD2	0.44	2.13
1:P:124:ILE:HD12	1:P:127:ASP:HB2	0.44	1.89
1:S:12:ARG:C	1:S:14:PHE:H	0.44	2.21
1:S:167:PRO:O	1:S:168:ALA:HB3	0.44	2.13
1:A:167:PRO:O	1:A:168:ALA:HB3	0.43	2.12
1:F:129:ASP:O	1:F:132:THR:HG22	0.43	2.13
1:G:163:ARG:O	1:L:26:GLN:HB3	0.43	2.13
1:G:165:GLU:OE2	1:L:30:GLU:HB2	0.43	2.13
1:K:71:GLU:O	1:K:71:GLU:HG2	0.43	2.13
1:K:78:ASN:HA	1:K:144:THR:HA	0.43	1.88
1:O:50:ARG:HG2	1:O:61:PHE:CE2	0.43	2.48
1:O:71:GLU:O	1:O:71:GLU:HG2	0.43	2.13
1:O:111:HIS:HB2	1:P:124:ILE:HG23	0.43	1.90
1:Q:18:HIS:NE2	1:T:24:PHE:HB2	0.43	2.28
1:D:10:ILE:O	1:D:13:PRO:HD2	0.43	2.13
1:G:63:THR:OG1	1:G:64:GLY:N	0.43	2.52
1:I:174:LYS:HG2	1:S:174:LYS:HE2	0.43	1.89
1:M:124:ILE:CG2	1:N:111:HIS:HB2	0.43	2.43
1:S:49:LEU:O	1:S:51:PRO:HD3	0.43	2.13
1:S:114:ILE:HG12	1:T:120:ARG:HG2	0.43	1.91
1:X:159:ILE:O	1:X:159:ILE:HG12	0.43	2.13
1:A:163:ARG:CZ	1:F:27:PHE:H	0.43	2.26
1:C:124:ILE:HB	1:C:127:ASP:HB2	0.43	1.90
1:D:23:LEU:HB2	1:U:15:PHE:CG	0.43	2.49
1:E:56:ARG:HH12	1:P:31:HIS:CD2	0.43	2.30
1:G:1:MET:O	1:G:2:ASP:C	0.43	2.60
1:G:19:SER:HA	1:X:24:PHE:CE2	0.43	2.48
1:M:164:GLU:HB2	1:R:138:SER:HA	0.43	1.90
1:N:159:ILE:O	1:N:159:ILE:HG12	0.43	2.13
1:P:131:LEU:HA	1:Q:156:GLU:HB2	0.43	1.89
1:S:63:THR:OG1	1:S:64:GLY:N	0.43	2.51
1:S:165:GLU:OE2	1:X:30:GLU:HB2	0.43	2.12

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:T:165:GLU:HG3	1:T:165:GLU:O	0.43	2.13
1:A:33:LEU:O	1:A:37:LEU:HG	0.43	2.13
1:A:80:ASP:H	1:A:120:ARG:HD2	0.43	1.74
1:C:167:PRO:HB3	1:I:16:PRO:CD	0.43	2.43
1:E:10:ILE:O	1:Q:169:VAL:HG21	0.43	2.13
1:E:163:ARG:HA	1:U:15:PHE:CB	0.43	2.39
1:H:23:LEU:N	1:H:23:LEU:CD2	0.43	2.72
1:H:77:VAL:HB	1:H:145:VAL:HG23	0.43	1.90
1:I:9:TRP:O	1:I:13:PRO:HD3	0.43	2.13
1:J:72:LYS:CG	1:K:46:PRO:HD3	0.43	2.43
1:M:89:LEU:C	1:M:89:LEU:HD12	0.43	2.38
1:N:30:GLU:HB3	1:O:165:GLU:OE2	0.43	2.13
1:P:1:MET:HB2	1:S:5:ILE:HD11	0.43	1.91
1:P:27:PHE:CD1	1:Q:165:GLU:HG3	0.43	2.48
1:P:152:VAL:HG11	1:Q:151:GLN:OE1	0.43	2.14
1:Q:73:ASP:C	1:Q:149:ARG:HD3	0.43	2.38
1:U:74:ARG:H	1:U:74:ARG:HD2	0.43	1.73
1:C:124:ILE:HG23	1:D:111:HIS:HB2	0.43	1.89
1:C:128:VAL:HA	1:C:133:ILE:HG13	0.43	1.90
1:E:72:LYS:HD2	1:E:127:ASP:OD2	0.43	2.13
1:G:124:ILE:HG23	1:H:111:HIS:HB2	0.43	1.90
1:J:26:GLN:HB3	1:K:163:ARG:O	0.43	2.13
1:K:14:PHE:O	1:K:15:PHE:C	0.43	2.60
1:K:124:ILE:HG23	1:L:111:HIS:HB2	0.43	1.89
1:M:167:PRO:O	1:M:168:ALA:HB3	0.43	2.14
1:N:72:LYS:HD3	1:O:48:TYR:CD2	0.43	2.48
1:O:33:LEU:O	1:O:37:LEU:HG	0.43	2.14
1:S:1:MET:O	1:S:2:ASP:C	0.43	2.61
1:S:33:LEU:HD21	1:X:29:GLY:HA2	0.43	1.89
1:S:69:ARG:HH11	1:S:72:LYS:HB2	0.43	1.73
1:A:89:LEU:C	1:A:89:LEU:HD12	0.43	2.38
1:D:99:GLU:HG2	1:D:121:LYS:HA	0.43	1.90
1:G:48:TYR:CE2	1:L:72:LYS:HD3	0.43	2.49
1:I:120:ARG:HG2	1:J:114:ILE:HG12	0.43	1.88
1:I:124:ILE:CG2	1:J:111:HIS:HB2	0.43	2.44
1:J:26:GLN:NE2	1:J:136:SER:HA	0.43	2.29
1:K:11:ARG:HB3	1:N:21:SER:C	0.43	2.39
1:K:18:HIS:CD2	1:N:21:SER:HB3	0.43	2.47
1:M:167:PRO:HG3	1:S:16:PRO:N	0.43	2.28
1:R:77:VAL:HB	1:R:145:VAL:HG23	0.43	1.91
1:S:15:PHE:O	1:S:17:PHE:N	0.43	2.51
1:S:124:ILE:CG2	1:T:111:HIS:HB2	0.43	2.44

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:V:150:LYS:HE3	1:W:152:VAL:HG23	0.43	1.89
1:X:159:ILE:HD13	1:X:159:ILE:N	0.43	2.28
1:A:16:PRO:N	1:K:167:PRO:HG3	0.43	2.28
1:A:151:GLN:HA	1:F:151:GLN:NE2	0.43	2.27
1:B:87:GLU:HB2	1:I:12:ARG:NH1	0.43	2.29
1:B:150:LYS:HE3	1:C:152:VAL:HG23	0.43	1.91
1:C:169:VAL:HG21	1:I:10:ILE:O	0.43	2.14
1:D:15:PHE:N	1:D:16:PRO:CD	0.43	2.81
1:E:14:PHE:CD1	1:Q:169:VAL:HG22	0.43	2.48
1:H:72:LYS:HE2	1:I:45:SER:CA	0.43	2.44
1:H:151:GLN:NE2	1:I:151:GLN:HA	0.43	2.28
1:I:38:PHE:O	1:I:40:THR:N	0.43	2.51
1:I:163:ARG:C	1:W:16:PRO:HG3	0.43	2.39
1:J:156:GLU:HB2	1:K:131:LEU:HD23	0.43	1.89
1:K:12:ARG:O	1:K:15:PHE:CD2	0.43	2.71
1:K:17:PHE:HD2	1:O:167:PRO:HD2	0.43	1.68
1:M:114:ILE:HG12	1:N:120:ARG:HG2	0.43	1.89
1:S:15:PHE:CB	1:S:16:PRO:HD3	0.43	2.44
1:S:164:GLU:O	1:X:139:SER:HB2	0.43	2.14
1:V:23:LEU:O	1:W:163:ARG:HD3	0.43	2.13
1:X:138:SER:CB	1:X:142:VAL:HB	0.43	2.44
1:B:24:PHE:O	1:B:24:PHE:HD1	0.43	1.97
1:B:170:THR:HG22	1:B:171:ALA:H	0.43	1.73
1:C:69:ARG:HG3	1:C:126:ALA:CB	0.43	2.43
1:D:24:PHE:HA	1:E:163:ARG:CZ	0.43	2.43
1:G:15:PHE:C	1:G:17:PHE:N	0.43	2.77
1:G:73:ASP:O	1:G:74:ARG:C	0.43	2.62
1:G:124:ILE:HG13	1:G:128:VAL:HG23	0.43	1.90
1:H:23:LEU:HD23	1:W:15:PHE:CD1	0.43	2.49
1:I:71:GLU:O	1:I:71:GLU:HG2	0.43	2.14
1:K:12:ARG:O	1:K:15:PHE:HD2	0.43	1.96
1:M:167:PRO:CG	1:S:16:PRO:HB2	0.43	2.43
1:N:125:PRO:HG2	1:N:153:SER:HA	0.43	1.89
1:R:21:SER:OG	1:R:22:ARG:N	0.43	2.52
1:R:85:SER:N	1:R:86:PRO:HD3	0.43	2.29
1:S:151:GLN:HG3	1:X:152:VAL:HB	0.43	1.90
1:U:1:MET:HB3	1:W:175:LYS:C	0.43	2.39
1:A:95:GLY:O	1:A:130:PRO:HD3	0.43	2.13
1:A:165:GLU:C	1:O:16:PRO:CB	0.43	2.90
1:H:22:ARG:HG3	1:H:23:LEU:HD21	0.43	1.89
1:H:150:LYS:NZ	1:H:151:GLN:HE21	0.43	2.12
1:K:73:ASP:O	1:K:149:ARG:HD3	0.43	2.14

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:L:7:HIS:HB2	1:L:8:PRO:HD3	0.43	1.91
1:M:152:VAL:HB	1:R:150:LYS:HG2	0.43	1.90
1:Q:49:LEU:O	1:Q:51:PRO:HD3	0.43	2.14
1:S:38:PHE:O	1:S:40:THR:N	0.43	2.51
1:U:50:ARG:HG2	1:U:61:PHE:CE2	0.43	2.48
1:U:77:VAL:HB	1:U:145:VAL:HG23	0.43	1.89
1:W:8:PRO:O	1:W:12:ARG:HG3	0.43	2.14
1:A:12:ARG:NH2	1:J:87:GLU:HB3	0.43	2.29
1:C:18:HIS:HB3	1:V:24:PHE:CB	0.43	2.44
1:D:1:MET:HB2	1:O:5:ILE:HD11	0.43	1.91
1:D:72:LYS:HB3	1:D:72:LYS:HZ2	0.43	1.73
1:D:150:LYS:HG2	1:E:152:VAL:HB	0.43	1.91
1:E:95:GLY:O	1:E:130:PRO:HD3	0.43	2.14
1:F:1:MET:HB2	1:I:5:ILE:HD11	0.43	1.90
1:I:95:GLY:O	1:I:130:PRO:HD3	0.43	2.14
1:K:89:LEU:C	1:K:89:LEU:HD12	0.43	2.39
1:K:161:ILE:O	1:K:162:THR:HB	0.43	2.14
1:L:46:PRO:O	1:L:47:PHE:HB2	0.43	2.13
1:M:174:LYS:HB3	1:U:175:LYS:OXT	0.43	2.13
1:O:38:PHE:O	1:O:40:THR:N	0.43	2.52
1:P:89:LEU:HD12	1:P:89:LEU:C	0.43	2.39
1:T:46:PRO:O	1:T:47:PHE:HB2	0.43	2.13
1:T:72:LYS:HE2	1:U:48:TYR:CD2	0.43	2.48
1:W:164:GLU:O	1:W:165:GLU:O	0.43	2.37
1:W:167:PRO:O	1:W:168:ALA:HB3	0.43	2.14
1:C:49:LEU:O	1:C:51:PRO:HD3	0.42	2.14
1:C:124:ILE:HG13	1:C:128:VAL:HG23	0.42	1.90
1:C:124:ILE:CG2	1:D:111:HIS:HB2	0.42	2.44
1:E:13:PRO:C	1:Q:169:VAL:HG13	0.42	2.39
1:E:18:HIS:C	1:E:20:PRO:HD3	0.42	2.39
1:F:81:VAL:O	1:F:82:LYS:C	0.42	2.61
1:G:1:MET:H3	1:I:175:LYS:CB	0.42	2.27
1:H:46:PRO:O	1:H:47:PHE:HB2	0.42	2.13
1:I:5:ILE:C	1:I:8:PRO:HD2	0.42	2.39
1:I:89:LEU:C	1:I:89:LEU:HD12	0.42	2.39
1:K:63:THR:OG1	1:K:65:LEU:HD13	0.42	2.14
1:N:72:LYS:HB3	1:O:45:SER:N	0.42	2.29
1:O:128:VAL:HA	1:O:133:ILE:HG13	0.42	1.91
1:P:148:PRO:HG3	1:Q:46:PRO:HB3	0.42	1.89
1:Q:16:PRO:CG	1:U:167:PRO:HB2	0.42	2.43
1:Q:75:PHE:HB2	1:Q:149:ARG:CZ	0.42	2.43
1:S:18:HIS:C	1:S:20:PRO:HD3	0.42	2.39

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:S:95:GLY:O	1:S:130:PRO:HD3	0.42	2.13
1:V:46:PRO:O	1:V:47:PHE:HB2	0.42	2.13
1:W:5:ILE:C	1:W:8:PRO:HD2	0.42	2.38
1:A:15:PHE:HB3	1:J:23:LEU:CB	0.42	2.40
1:B:24:PHE:N	1:I:18:HIS:CD2	0.42	2.87
1:B:125:PRO:HG2	1:B:153:SER:HA	0.42	1.91
1:D:6:HIS:CE1	1:Q:173:PRO:HB3	0.42	2.49
1:G:167:PRO:HD3	1:M:16:PRO:C	0.42	2.38
1:H:72:LYS:HB3	1:I:45:SER:N	0.42	2.29
1:H:137:LEU:HG	1:I:164:GLU:OE2	0.42	2.14
1:J:137:LEU:HD13	1:J:143:LEU:HD23	0.42	1.90
1:N:15:PHE:N	1:N:16:PRO:CD	0.42	2.83
1:N:77:VAL:HB	1:N:145:VAL:HG23	0.42	1.91
1:O:32:LEU:HB3	1:O:49:LEU:HD22	0.42	1.89
1:P:72:LYS:CA	1:Q:46:PRO:HD3	0.42	2.44
1:P:138:SER:HA	1:Q:164:GLU:HB2	0.42	1.90
1:Q:16:PRO:CB	1:U:167:PRO:HD2	0.42	2.43
1:W:132:THR:HG23	1:W:133:ILE:HD12	0.42	1.91
1:A:111:HIS:HB2	1:B:124:ILE:HG23	0.42	1.89
1:E:8:PRO:O	1:E:12:ARG:HG3	0.42	2.14
1:E:167:PRO:HG3	1:U:16:PRO:N	0.42	2.29
1:I:128:VAL:HA	1:I:133:ILE:HG13	0.42	1.90
1:M:12:ARG:C	1:M:14:PHE:H	0.42	2.22
1:O:12:ARG:C	1:O:14:PHE:H	0.42	2.21
1:Q:111:HIS:HB2	1:R:124:ILE:HG23	0.42	1.90
1:Q:127:ASP:HA	1:Q:149:ARG:CB	0.42	2.43
1:S:73:ASP:O	1:S:74:ARG:C	0.42	2.62
1:T:10:ILE:O	1:T:13:PRO:HD2	0.42	2.14
1:T:77:VAL:HB	1:T:145:VAL:HG23	0.42	1.91
1:U:71:GLU:O	1:U:71:GLU:HG2	0.42	2.14
1:U:89:LEU:C	1:U:89:LEU:HD12	0.42	2.39
1:W:63:THR:OG1	1:W:65:LEU:HD13	0.42	2.14
1:W:124:ILE:CG2	1:X:111:HIS:HB2	0.42	2.44
1:A:7:HIS:HB2	1:A:8:PRO:HD3	0.42	1.91
1:C:89:LEU:C	1:C:89:LEU:HD12	0.42	2.39
1:C:163:ARG:CZ	1:I:18:HIS:HB3	0.42	2.45
1:D:27:PHE:N	1:E:163:ARG:CG	0.42	2.82
1:D:73:ASP:H	1:E:46:PRO:HD3	0.42	1.68
1:H:44:LEU:O	1:H:45:SER:CB	0.42	2.67
1:K:124:ILE:CG2	1:L:111:HIS:HB2	0.42	2.45
1:L:27:PHE:HD2	1:M:18:HIS:O	0.42	1.97
1:L:79:LEU:HD12	1:L:143:LEU:HG	0.42	1.90

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:M:46:PRO:HD3	1:R:72:LYS:HB3	0.42	1.88
1:O:89:LEU:C	1:O:89:LEU:HD12	0.42	2.39
1:P:73:ASP:N	1:Q:46:PRO:HD3	0.42	2.29
1:Q:89:LEU:C	1:Q:89:LEU:HD12	0.42	2.39
1:R:22:ARG:HH11	1:S:12:ARG:HG2	0.42	1.74
1:S:5:ILE:C	1:S:8:PRO:HD2	0.42	2.38
1:S:78:ASN:HA	1:S:144:THR:HA	0.42	1.90
1:S:89:LEU:C	1:S:89:LEU:HD12	0.42	2.39
1:V:44:LEU:O	1:V:45:SER:CB	0.42	2.67
1:X:169:VAL:HG22	1:X:170:THR:H	0.42	1.74
1:A:45:SER:CA	1:F:72:LYS:HE2	0.42	2.43
1:B:84:PHE:HB3	1:B:139:SER:O	0.42	2.14
1:D:152:VAL:HG11	1:E:151:GLN:OE1	0.42	2.14
1:E:20:PRO:O	1:E:24:PHE:HB2	0.42	2.15
1:E:166:LYS:HG3	1:U:54:PHE:CD2	0.42	2.49
1:E:167:PRO:O	1:E:168:ALA:HB3	0.42	2.15
1:G:1:MET:CG	1:I:175:LYS:HB3	0.42	2.45
1:G:15:PHE:HD1	1:X:23:LEU:H	0.42	1.57
1:G:166:LYS:NZ	1:L:139:SER:HB3	0.42	2.30
1:G:175:LYS:HD2	1:R:2:ASP:OD1	0.42	2.14
1:H:29:GLY:CA	1:I:33:LEU:HD21	0.42	2.44
1:J:21:SER:OG	1:J:22:ARG:N	0.42	2.53
1:J:44:LEU:O	1:J:45:SER:CB	0.42	2.67
1:N:137:LEU:HD23	1:O:164:GLU:OE2	0.42	2.15
1:Q:22:ARG:HB2	1:T:17:PHE:HA	0.42	1.90
1:T:81:VAL:O	1:T:82:LYS:C	0.42	2.63
1:W:129:ASP:H	1:W:133:ILE:HD13	0.42	1.75
1:X:129:ASP:O	1:X:132:THR:HG22	0.42	2.14
1:A:169:VAL:CG2	1:O:13:PRO:C	0.42	2.93
1:C:54:PHE:CG	1:W:166:LYS:HG3	0.42	2.50
1:D:44:LEU:O	1:D:45:SER:CB	0.42	2.67
1:F:7:HIS:HB2	1:F:8:PRO:HD3	0.42	1.92
1:F:43:SER:O	1:F:44:LEU:HB2	0.42	2.14
1:G:16:PRO:HB2	1:S:167:PRO:CG	0.42	2.44
1:G:50:ARG:HG2	1:G:61:PHE:CE2	0.42	2.49
1:K:167:PRO:CG	1:K:168:ALA:N	0.42	2.81
1:M:169:VAL:CG2	1:S:13:PRO:C	0.42	2.92
1:P:22:ARG:HG3	1:P:23:LEU:CD1	0.42	2.39
1:S:151:GLN:HA	1:X:151:GLN:NE2	0.42	2.30
1:S:163:ARG:HB2	1:X:23:LEU:HB3	0.42	1.91
1:W:89:LEU:C	1:W:89:LEU:HD12	0.42	2.39
1:W:114:ILE:HG12	1:X:120:ARG:HG2	0.42	1.90

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:A:46:PRO:HB3	1:F:148:PRO:HB3	0.42	1.92
1:A:63:THR:OG1	1:A:64:GLY:N	0.42	2.52
1:A:174:LYS:HG2	1:Q:174:LYS:HZ2	0.42	1.74
1:C:63:THR:OG1	1:C:65:LEU:HD13	0.42	2.15
1:C:111:HIS:HB2	1:D:124:ILE:CG2	0.42	2.45
1:E:124:ILE:CG2	1:F:111:HIS:HB2	0.42	2.43
1:G:15:PHE:C	1:S:163:ARG:HG3	0.42	2.39
1:G:167:PRO:HG2	1:M:17:PHE:HB2	0.42	1.92
1:J:7:HIS:HB2	1:J:8:PRO:HD3	0.42	1.91
1:M:33:LEU:HD21	1:R:29:GLY:HA2	0.42	1.92
1:N:14:PHE:O	1:N:18:HIS:HB2	0.42	2.15
1:S:163:ARG:HB2	1:X:23:LEU:CB	0.42	2.44
1:W:63:THR:OG1	1:W:64:GLY:N	0.42	2.53
1:X:10:ILE:O	1:X:13:PRO:HD2	0.42	2.15
1:X:166:LYS:HB2	1:X:167:PRO:CD	0.42	2.39
1:B:23:LEU:C	1:I:18:HIS:CD2	0.42	2.98
1:B:33:LEU:HA	1:C:37:LEU:HD13	0.42	1.90
1:C:18:HIS:CG	1:V:24:PHE:HB3	0.42	2.50
1:E:49:LEU:O	1:E:51:PRO:HD3	0.42	2.14
1:E:165:GLU:N	1:U:16:PRO:HB3	0.42	2.30
1:G:16:PRO:CB	1:S:165:GLU:C	0.42	2.88
1:G:89:LEU:C	1:G:89:LEU:HD12	0.42	2.40
1:G:151:GLN:HA	1:L:151:GLN:NE2	0.42	2.29
1:G:151:GLN:HG3	1:L:152:VAL:HB	0.42	1.90
1:I:109:ASP:HB2	1:I:112:GLY:O	0.42	2.15
1:N:150:LYS:HG2	1:O:152:VAL:N	0.42	2.30
1:P:85:SER:N	1:P:86:PRO:HD3	0.42	2.30
1:R:44:LEU:O	1:R:45:SER:CB	0.42	2.68
1:T:44:LEU:O	1:T:45:SER:CB	0.42	2.67
1:U:72:LYS:HG2	1:U:127:ASP:CG	0.42	2.40
1:U:114:ILE:HG12	1:V:120:ARG:HG2	0.42	1.92
1:W:45:SER:CB	1:W:48:TYR:HB2	0.42	2.44
1:A:167:PRO:CG	1:O:17:PHE:N	0.42	2.81
1:B:72:LYS:HD3	1:C:48:TYR:CZ	0.42	2.50
1:B:138:SER:HB2	1:B:142:VAL:HB	0.42	1.92
1:C:13:PRO:C	1:W:169:VAL:HG22	0.42	2.39
1:C:38:PHE:O	1:C:40:THR:N	0.42	2.53
1:E:109:ASP:HB2	1:E:112:GLY:O	0.42	2.15
1:E:165:GLU:C	1:E:166:LYS:HD3	0.42	2.39
1:G:38:PHE:O	1:G:40:THR:N	0.42	2.53
1:H:19:SER:N	1:H:20:PRO:CD	0.42	2.83
1:I:162:THR:HG22	1:W:15:PHE:CD2	0.42	2.49

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:J:15:PHE:N	1:J:16:PRO:CD	0.42	2.83
1:J:77:VAL:HB	1:J:145:VAL:HG23	0.42	1.92
1:K:15:PHE:HE1	1:N:23:LEU:HG	0.42	1.73
1:M:1:MET:O	1:M:6:HIS:HB2	0.42	2.15
1:M:5:ILE:C	1:M:8:PRO:HD2	0.42	2.39
1:M:63:THR:OG1	1:M:64:GLY:N	0.42	2.52
1:M:69:ARG:HG3	1:M:126:ALA:CB	0.42	2.45
1:M:73:ASP:O	1:M:149:ARG:HD3	0.42	2.15
1:N:7:HIS:HB2	1:N:8:PRO:HD3	0.42	1.91
1:Q:5:ILE:C	1:Q:8:PRO:HD2	0.42	2.39
1:Q:13:PRO:HB2	1:U:168:ALA:O	0.42	2.15
1:R:16:PRO:O	1:S:22:ARG:HD2	0.42	2.15
1:T:139:SER:HA	1:U:164:GLU:HG3	0.42	1.91
1:U:63:THR:OG1	1:U:64:GLY:N	0.42	2.51
1:U:71:GLU:C	1:U:72:LYS:HD2	0.42	2.40
1:A:46:PRO:HD3	1:F:72:LYS:HB3	0.42	1.91
1:A:169:VAL:HG23	1:O:14:PHE:CG	0.42	2.49
1:B:7:HIS:HB2	1:B:8:PRO:HD3	0.42	1.92
1:B:16:PRO:O	1:I:22:ARG:HD2	0.42	2.15
1:C:16:PRO:HD3	1:W:163:ARG:HA	0.42	1.91
1:F:10:ILE:O	1:F:13:PRO:HD2	0.42	2.15
1:F:174:LYS:HG2	1:F:175:LYS:H	0.42	1.75
1:G:14:PHE:CB	1:S:169:VAL:HG23	0.42	2.44
1:G:15:PHE:HB2	1:S:163:ARG:CB	0.42	2.45
1:G:131:LEU:CD2	1:L:156:GLU:HB2	0.42	2.45
1:H:40:THR:O	1:H:41:SER:HB2	0.42	2.15
1:K:18:HIS:NE2	1:N:24:PHE:HB2	0.42	2.30
1:K:74:ARG:H	1:K:74:ARG:HD2	0.42	1.75
1:K:161:ILE:HG22	1:K:162:THR:N	0.42	2.28
1:N:23:LEU:C	1:O:163:ARG:HD2	0.42	2.40
1:Q:16:PRO:HG2	1:U:167:PRO:CB	0.42	2.42
1:S:1:MET:N	1:U:175:LYS:HG2	0.42	2.29
1:S:125:PRO:O	1:S:151:GLN:HB3	0.42	2.15
1:U:124:ILE:HG23	1:V:111:HIS:HB2	0.42	1.92
1:V:19:SER:N	1:V:20:PRO:CD	0.42	2.83
1:V:29:GLY:CA	1:W:33:LEU:HD21	0.42	2.45
1:V:152:VAL:HG11	1:W:151:GLN:OE1	0.42	2.14
1:W:109:ASP:HB2	1:W:112:GLY:O	0.42	2.15
1:W:167:PRO:HG2	1:W:168:ALA:H	0.42	1.75
1:A:1:MET:O	1:A:6:HIS:HB2	0.41	2.15
1:F:44:LEU:O	1:F:45:SER:CB	0.41	2.68
1:H:28:PHE:HB2	1:W:19:SER:HB3	0.41	1.91

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:I:111:HIS:HB2	1:J:124:ILE:CG2	0.41	2.45
1:K:114:ILE:HG12	1:L:120:ARG:HG2	0.41	1.91
1:M:33:LEU:O	1:M:37:LEU:HG	0.41	2.15
1:M:44:LEU:HB3	1:R:72:LYS:O	0.41	2.14
1:M:46:PRO:HB3	1:R:148:PRO:HB3	0.41	1.91
1:M:79:LEU:HD12	1:M:143:LEU:HD12	0.41	1.92
1:M:167:PRO:HG3	1:S:16:PRO:CA	0.41	2.45
1:Q:5:ILE:HD11	1:X:1:MET:HB2	0.41	1.92
1:R:10:ILE:O	1:R:13:PRO:HD2	0.41	2.15
1:T:148:PRO:HB3	1:U:46:PRO:HB3	0.41	1.91
1:V:125:PRO:HG2	1:V:153:SER:HA	0.41	1.91
1:A:18:HIS:CD2	1:J:21:SER:HB3	0.41	2.50
1:A:37:LEU:HD13	1:F:33:LEU:HA	0.41	1.92
1:B:29:GLY:CA	1:C:33:LEU:HD21	0.41	2.46
1:C:166:LYS:CB	1:C:166:LYS:HZ2	0.41	2.28
1:E:16:PRO:CG	1:Q:167:PRO:HB3	0.41	2.45
1:E:132:THR:CG2	1:E:148:PRO:HD2	0.41	2.46
1:F:31:HIS:CD2	1:O:56:ARG:HH12	0.41	2.33
1:G:1:MET:N	1:I:175:LYS:HB3	0.41	2.30
1:G:5:ILE:HD11	1:V:1:MET:HB2	0.41	1.92
1:I:63:THR:OG1	1:I:64:GLY:N	0.41	2.53
1:I:125:PRO:O	1:I:151:GLN:HB3	0.41	2.15
1:I:170:THR:HG22	1:I:171:ALA:H	0.41	1.74
1:L:15:PHE:N	1:L:16:PRO:CD	0.41	2.83
1:P:44:LEU:O	1:P:45:SER:CB	0.41	2.67
1:S:72:LYS:HD2	1:S:127:ASP:OD2	0.41	2.15
1:T:170:THR:HG22	1:T:171:ALA:N	0.41	2.30
1:U:20:PRO:O	1:U:24:PHE:HB2	0.41	2.15
1:U:33:LEU:O	1:U:37:LEU:HG	0.41	2.15
1:V:79:LEU:CD1	1:V:100:VAL:HB	0.41	2.34
1:A:50:ARG:HG2	1:A:61:PHE:CE2	0.41	2.50
1:C:20:PRO:O	1:C:24:PHE:HB2	0.41	2.15
1:D:27:PHE:H	1:E:163:ARG:CG	0.41	2.29
1:E:89:LEU:C	1:E:89:LEU:HD12	0.41	2.40
1:F:31:HIS:HD2	1:O:56:ARG:HH12	0.41	1.56
1:G:163:ARG:CD	1:L:23:LEU:O	0.41	2.67
1:J:99:GLU:HG2	1:J:121:LYS:HA	0.41	1.91
1:K:16:PRO:O	1:O:167:PRO:HD3	0.41	2.15
1:K:69:ARG:HG3	1:K:126:ALA:CB	0.41	2.45
1:K:70:LEU:HD12	1:K:71:GLU:OE1	0.41	2.15
1:L:44:LEU:O	1:L:45:SER:CB	0.41	2.68
1:M:109:ASP:HB2	1:M:112:GLY:O	0.41	2.15

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:O:170:THR:HG22	1:O:171:ALA:H	0.41	1.75
1:V:10:ILE:O	1:V:13:PRO:HD2	0.41	2.14
1:W:95:GLY:O	1:W:130:PRO:HD3	0.41	2.14
1:X:77:VAL:HB	1:X:145:VAL:HG23	0.41	1.93
1:A:164:GLU:HB2	1:F:138:SER:HA	0.41	1.91
1:B:39:PRO:HB3	1:B:43:SER:O	0.41	2.16
1:C:114:ILE:HG12	1:D:120:ARG:HE	0.41	1.76
1:D:7:HIS:HB2	1:D:8:PRO:HD3	0.41	1.91
1:D:14:PHE:O	1:D:18:HIS:HB2	0.41	2.15
1:D:23:LEU:HB2	1:U:15:PHE:CE1	0.41	2.51
1:D:136:SER:OG	1:D:144:THR:HB	0.41	2.16
1:E:164:GLU:O	1:E:165:GLU:C	0.41	2.63
1:F:27:PHE:HD2	1:O:18:HIS:O	0.41	1.99
1:F:80:ASP:H	1:F:120:ARG:HD2	0.41	1.76
1:F:170:THR:HG22	1:F:171:ALA:H	0.41	1.74
1:F:170:THR:HG22	1:F:171:ALA:N	0.41	2.31
1:G:37:LEU:HD13	1:L:33:LEU:HA	0.41	1.92
1:G:63:THR:OG1	1:G:65:LEU:HD13	0.41	2.16
1:H:131:LEU:HG	1:I:154:GLY:C	0.41	2.40
1:J:27:PHE:CD1	1:K:165:GLU:HG3	0.41	2.51
1:K:95:GLY:O	1:K:130:PRO:HD3	0.41	2.15
1:P:99:GLU:HG2	1:P:121:LYS:HA	0.41	1.91
1:P:134:THR:HG22	1:Q:158:THR:O	0.41	2.15
1:Q:15:PHE:CD2	1:U:162:THR:HB	0.41	2.50
1:Q:38:PHE:CD1	1:Q:39:PRO:HD2	0.41	2.51
1:Q:131:LEU:O	1:Q:131:LEU:HD13	0.41	2.14
1:U:128:VAL:HA	1:U:133:ILE:HG12	0.41	1.91
1:W:32:LEU:HB3	1:W:49:LEU:HD22	0.41	1.92
1:W:70:LEU:HD12	1:W:71:GLU:OE1	0.41	2.15
1:W:125:PRO:O	1:W:151:GLN:HB3	0.41	2.15
1:A:1:MET:H1	1:C:175:LYS:N	0.41	2.14
1:A:11:ARG:HG2	1:J:20:PRO:O	0.41	2.16
1:A:13:PRO:O	1:K:168:ALA:C	0.41	2.64
1:A:151:GLN:HG3	1:F:152:VAL:HB	0.41	1.92
1:A:163:ARG:HD2	1:F:23:LEU:C	0.41	2.41
1:B:170:THR:HG22	1:B:171:ALA:N	0.41	2.31
1:C:14:PHE:CB	1:W:169:VAL:HG23	0.41	2.45
1:C:63:THR:OG1	1:C:64:GLY:N	0.41	2.53
1:E:12:ARG:HA	1:E:15:PHE:CE2	0.41	2.50
1:E:40:THR:O	1:E:42:THR:HG23	0.41	2.16
1:F:165:GLU:HG3	1:F:165:GLU:O	0.41	2.16
1:G:33:LEU:HD21	1:L:29:GLY:CA	0.41	2.46

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:G:111:HIS:HB2	1:H:124:ILE:HG23	0.41	1.92
1:G:169:VAL:HB	1:M:13:PRO:CB	0.41	2.44
1:I:2:ASP:HA	1:K:175:LYS:HD3	0.41	1.93
1:J:152:VAL:HG11	1:K:151:GLN:OE1	0.41	2.15
1:M:45:SER:CA	1:R:72:LYS:HE3	0.41	2.45
1:M:165:GLU:CD	1:R:30:GLU:HB2	0.41	2.41
1:Q:125:PRO:O	1:Q:151:GLN:HB3	0.41	2.15
1:R:137:LEU:HD13	1:R:143:LEU:HD23	0.41	1.92
1:U:15:PHE:CB	1:U:16:PRO:CD	0.41	2.95
1:U:73:ASP:O	1:U:149:ARG:HD3	0.41	2.15
1:U:109:ASP:HB2	1:U:112:GLY:O	0.41	2.16
1:V:131:LEU:HA	1:W:156:GLU:HB2	0.41	1.92
1:V:151:GLN:NE2	1:W:151:GLN:HA	0.41	2.31
1:X:150:LYS:HZ1	1:X:151:GLN:HE21	0.41	1.56
1:A:13:PRO:O	1:K:168:ALA:N	0.41	2.53
1:C:13:PRO:CB	1:W:169:VAL:HG22	0.41	2.46
1:H:10:ILE:O	1:H:13:PRO:HD2	0.41	2.15
1:H:169:VAL:HG12	1:H:170:THR:N	0.41	2.31
1:K:15:PHE:CD1	1:O:163:ARG:N	0.41	2.89
1:L:10:ILE:O	1:L:13:PRO:HD2	0.41	2.15
1:L:23:LEU:HD23	1:M:15:PHE:CE2	0.41	2.51
1:L:81:VAL:HG12	1:L:83:HIS:O	0.41	2.15
1:N:29:GLY:HA2	1:O:33:LEU:HD21	0.41	1.91
1:N:169:VAL:HG12	1:N:170:THR:N	0.41	2.30
1:P:23:LEU:O	1:Q:163:ARG:CD	0.41	2.69
1:Q:127:ASP:HB3	1:Q:149:ARG:CZ	0.41	2.46
1:R:44:LEU:O	1:R:45:SER:HB3	0.41	2.16
1:V:27:PHE:HD1	1:W:165:GLU:HG3	0.41	1.74
1:W:50:ARG:HG2	1:W:61:PHE:CE2	0.41	2.51
1:A:15:PHE:CG	1:J:23:LEU:HB2	0.41	2.49
1:C:19:SER:CB	1:V:28:PHE:HB2	0.41	2.46
1:E:71:GLU:O	1:E:71:GLU:HG2	0.41	2.15
1:E:80:ASP:N	1:E:120:ARG:HD2	0.41	2.31
1:F:15:PHE:N	1:F:16:PRO:CD	0.41	2.84
1:F:40:THR:O	1:F:41:SER:HB2	0.41	2.15
1:J:89:LEU:HD21	1:J:137:LEU:HD21	0.41	1.92
1:J:150:LYS:HG2	1:K:152:VAL:HB	0.41	1.92
1:K:17:PHE:CE2	1:O:168:ALA:HB2	0.41	2.51
1:L:85:SER:N	1:L:86:PRO:HD3	0.41	2.29
1:L:89:LEU:C	1:L:89:LEU:HD12	0.41	2.41
1:L:170:THR:HG22	1:L:171:ALA:N	0.41	2.31
1:M:18:HIS:C	1:M:20:PRO:HD3	0.41	2.40

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:N:26:GLN:NE2	1:N:136:SER:HA	0.41	2.30
1:P:27:PHE:H	1:Q:163:ARG:HG2	0.41	1.73
1:T:22:ARG:O	1:T:23:LEU:HD23	0.41	2.15
1:V:26:GLN:HB3	1:W:163:ARG:CG	0.41	2.45
1:A:44:LEU:O	1:F:72:LYS:CE	0.41	2.69
1:B:17:PHE:HA	1:I:22:ARG:HB2	0.41	1.93
1:C:15:PHE:CB	1:C:16:PRO:CD	0.41	2.76
1:D:80:ASP:H	1:D:120:ARG:HD2	0.41	1.76
1:H:31:HIS:CD2	1:W:56:ARG:HH12	0.41	2.33
1:H:79:LEU:CD1	1:H:100:VAL:HB	0.41	2.36
1:I:169:VAL:HG11	1:W:10:ILE:HA	0.41	1.92
1:J:40:THR:O	1:J:41:SER:HB2	0.41	2.15
1:O:111:HIS:HB2	1:P:124:ILE:CG2	0.41	2.45
1:P:27:PHE:CE1	1:Q:165:GLU:HG3	0.41	2.51
1:R:124:ILE:HG13	1:R:128:VAL:HG23	0.41	1.92
1:R:129:ASP:O	1:R:132:THR:HG22	0.41	2.16
1:T:15:PHE:N	1:T:16:PRO:CD	0.41	2.84
1:T:40:THR:O	1:T:41:SER:HB2	0.41	2.16
1:T:138:SER:C	1:U:164:GLU:CB	0.41	2.92
1:T:174:LYS:HG2	1:T:175:LYS:H	0.41	1.75
1:W:69:ARG:HG3	1:W:126:ALA:CB	0.41	2.46
1:A:166:LYS:HG2	1:O:54:PHE:CG	0.41	2.50
1:C:13:PRO:HD2	1:W:169:VAL:HG21	0.41	1.93
1:C:32:LEU:HB3	1:C:49:LEU:HD22	0.41	1.92
1:D:21:SER:CB	1:U:15:PHE:HA	0.41	2.46
1:D:28:PHE:HB2	1:U:19:SER:OG	0.41	2.16
1:D:74:ARG:NE	1:E:36:ASP:HA	0.41	2.31
1:D:155:PRO:O	1:D:156:GLU:C	0.41	2.64
1:D:169:VAL:HG12	1:D:170:THR:N	0.41	2.31
1:D:170:THR:HG22	1:D:171:ALA:N	0.41	2.31
1:E:111:HIS:HB2	1:F:124:ILE:HG23	0.41	1.93
1:G:13:PRO:HD2	1:S:169:VAL:CG2	0.41	2.46
1:G:15:PHE:HD2	1:G:16:PRO:HD3	0.41	1.76
1:G:22:ARG:HD3	1:G:23:LEU:HB2	0.41	1.93
1:G:32:LEU:HB3	1:G:49:LEU:HD22	0.41	1.93
1:G:33:LEU:HD21	1:L:29:GLY:HA2	0.41	1.91
1:G:85:SER:N	1:G:86:PRO:CD	0.41	2.84
1:G:168:ALA:C	1:M:13:PRO:O	0.41	2.64
1:H:7:HIS:HB2	1:H:8:PRO:HD3	0.41	1.91
1:H:152:VAL:HB	1:I:151:GLN:HG3	0.41	1.92
1:H:156:GLU:HB2	1:I:131:LEU:HD23	0.41	1.92
1:I:164:GLU:O	1:I:165:GLU:O	0.41	2.38

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:J:29:GLY:CA	1:K:33:LEU:HD21	0.41	2.46
1:J:157:ARG:HG3	1:J:158:THR:H	0.41	1.75
1:N:39:PRO:HB3	1:N:43:SER:O	0.41	2.16
1:O:124:ILE:HG13	1:O:128:VAL:HG23	0.41	1.92
1:P:6:HIS:O	1:P:10:ILE:HG13	0.41	2.16
1:Q:12:ARG:HB3	1:Q:13:PRO:CD	0.41	2.38
1:Q:111:HIS:HB2	1:R:124:ILE:CG2	0.41	2.46
1:R:99:GLU:HG2	1:R:121:LYS:HA	0.41	1.93
1:S:156:GLU:HB2	1:X:131:LEU:HA	0.41	1.92
1:T:125:PRO:HG2	1:T:153:SER:HA	0.41	1.92
1:U:32:LEU:HB3	1:U:49:LEU:HD22	0.41	1.92
1:V:6:HIS:O	1:V:10:ILE:HG13	0.41	2.16
1:V:15:PHE:N	1:V:16:PRO:CD	0.41	2.83
1:V:77:VAL:HB	1:V:145:VAL:HG23	0.41	1.93
1:V:174:LYS:HG2	1:V:175:LYS:H	0.41	1.75
1:W:169:VAL:HG12	1:W:170:THR:H	0.41	1.76
1:X:6:HIS:O	1:X:10:ILE:HG13	0.41	2.16
1:A:12:ARG:CB	1:A:13:PRO:HD3	0.41	2.45
1:A:167:PRO:CG	1:O:16:PRO:HB2	0.41	2.45
1:B:23:LEU:HG	1:I:15:PHE:CE1	0.41	2.51
1:B:24:PHE:HD2	1:I:18:HIS:CE1	0.41	2.34
1:B:72:LYS:HB3	1:C:46:PRO:HD3	0.41	1.93
1:B:99:GLU:HG2	1:B:121:LYS:HA	0.41	1.93
1:B:139:SER:CB	1:C:166:LYS:HB3	0.41	2.46
1:E:5:ILE:C	1:E:8:PRO:HD2	0.41	2.40
1:G:7:HIS:HB2	1:G:8:PRO:HD3	0.41	1.92
1:G:46:PRO:HD3	1:L:72:LYS:HA	0.41	1.93
1:G:48:TYR:CE1	1:L:72:LYS:HD3	0.41	2.51
1:G:124:ILE:HB	1:G:127:ASP:HB2	0.41	1.93
1:G:128:VAL:HA	1:G:133:ILE:HG13	0.41	1.91
1:G:164:GLU:HB2	1:L:138:SER:CA	0.41	2.46
1:I:143:LEU:HD13	1:I:144:THR:H	0.41	1.75
1:J:151:GLN:O	1:J:152:VAL:HB	0.41	2.16
1:K:15:PHE:C	1:O:163:ARG:HG3	0.41	2.41
1:K:17:PHE:HB2	1:O:167:PRO:CD	0.41	2.46
1:K:124:ILE:HG13	1:K:128:VAL:HG23	0.41	1.92
1:M:163:ARG:CD	1:R:27:PHE:H	0.41	2.28
1:M:164:GLU:O	1:R:139:SER:HB2	0.41	2.16
1:M:167:PRO:HB3	1:S:16:PRO:CG	0.41	2.46
1:R:6:HIS:O	1:R:10:ILE:HG13	0.41	2.16
1:V:169:VAL:HG12	1:V:170:THR:N	0.41	2.31
1:A:16:PRO:HB2	1:K:167:PRO:N	0.40	2.31

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:B:80:ASP:H	1:B:120:ARG:HD2	0.40	1.75
1:C:2:ASP:HA	1:E:175:LYS:HD3	0.40	1.93
1:E:79:LEU:HD12	1:E:143:LEU:HD12	0.40	1.93
1:E:85:SER:N	1:E:86:PRO:CD	0.40	2.84
1:G:13:PRO:C	1:S:169:VAL:CG2	0.40	2.94
1:H:15:PHE:N	1:H:16:PRO:CD	0.40	2.83
1:H:170:THR:HG22	1:H:171:ALA:N	0.40	2.31
1:I:167:PRO:CG	1:W:16:PRO:HB2	0.40	2.47
1:J:22:ARG:C	1:J:23:LEU:HD22	0.40	2.41
1:J:151:GLN:NE2	1:K:151:GLN:HA	0.40	2.31
1:K:15:PHE:HA	1:N:21:SER:OG	0.40	2.16
1:L:6:HIS:O	1:L:10:ILE:HG13	0.40	2.16
1:L:26:GLN:HE22	1:L:137:LEU:H	0.40	1.59
1:P:40:THR:O	1:P:41:SER:HB2	0.40	2.15
1:P:170:THR:HG22	1:P:171:ALA:N	0.40	2.31
1:R:170:THR:HG22	1:R:171:ALA:N	0.40	2.31
1:S:124:ILE:HG13	1:S:128:VAL:HG23	0.40	1.91
1:S:152:VAL:HG23	1:X:150:LYS:HE3	0.40	1.93
1:W:166:LYS:N	1:W:167:PRO:HD3	0.40	2.31
1:X:43:SER:O	1:X:44:LEU:HB2	0.40	2.16
1:B:89:LEU:C	1:B:89:LEU:HD12	0.40	2.42
1:C:18:HIS:ND1	1:C:20:PRO:HD3	0.40	2.31
1:D:6:HIS:O	1:D:10:ILE:HG13	0.40	2.16
1:E:11:ARG:HG2	1:P:20:PRO:O	0.40	2.16
1:E:114:ILE:HG12	1:F:120:ARG:HG2	0.40	1.92
1:G:15:PHE:O	1:G:17:PHE:N	0.40	2.54
1:G:45:SER:O	1:L:74:ARG:HG2	0.40	2.16
1:G:163:ARG:HB2	1:L:23:LEU:HB3	0.40	1.92
1:G:174:LYS:C	1:K:1:MET:N	0.40	2.79
1:H:6:HIS:O	1:H:10:ILE:HG13	0.40	2.16
1:H:72:LYS:CE	1:I:44:LEU:O	0.40	2.69
1:L:166:LYS:CB	1:L:167:PRO:HD3	0.40	2.44
1:M:22:ARG:HD3	1:M:23:LEU:HB2	0.40	1.92
1:R:89:LEU:HD12	1:R:89:LEU:C	0.40	2.41
1:R:137:LEU:HD13	1:R:143:LEU:CD2	0.40	2.46
1:T:174:LYS:HG2	1:T:175:LYS:N	0.40	2.31
1:U:7:HIS:HB2	1:U:8:PRO:HD3	0.40	1.92
1:V:40:THR:O	1:V:41:SER:HB2	0.40	2.16
1:V:85:SER:N	1:V:86:PRO:CD	0.40	2.84
1:W:10:ILE:O	1:W:10:ILE:HG22	0.40	2.16
1:W:75:PHE:HB2	1:W:149:ARG:CZ	0.40	2.46
1:X:95:GLY:O	1:X:130:PRO:HD3	0.40	2.16

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:X:174:LYS:HG2	1:X:175:LYS:H	0.40	1.76
1:A:114:ILE:HG12	1:B:120:ARG:HG2	0.40	1.94
1:B:27:PHE:HD2	1:I:18:HIS:O	0.40	1.99
1:B:72:LYS:HD3	1:C:48:TYR:CE1	0.40	2.51
1:B:131:LEU:HD23	1:C:154:GLY:C	0.40	2.41
1:C:18:HIS:CG	1:C:19:SER:H	0.40	2.34
1:C:171:ALA:HB2	1:I:10:ILE:HD13	0.40	1.94
1:D:135:SER:OG	1:D:143:LEU:HD11	0.40	2.17
1:E:169:VAL:CG2	1:U:13:PRO:HD2	0.40	2.46
1:H:174:LYS:HG2	1:H:175:LYS:H	0.40	1.75
1:I:1:MET:C	1:K:175:LYS:HB3	0.40	2.41
1:I:85:SER:N	1:I:86:PRO:CD	0.40	2.84
1:I:164:GLU:N	1:W:16:PRO:HG3	0.40	2.32
1:J:27:PHE:H	1:K:163:ARG:CZ	0.40	2.28
1:K:12:ARG:C	1:K:14:PHE:H	0.40	2.23
1:O:125:PRO:O	1:O:151:GLN:HG2	0.40	2.15
1:P:151:GLN:HE22	1:Q:150:LYS:C	0.40	2.25
1:S:162:THR:OG1	1:X:23:LEU:HG	0.40	2.17
1:T:131:LEU:HA	1:U:156:GLU:HB2	0.40	1.94
1:U:161:ILE:HG22	1:U:162:THR:N	0.40	2.27
1:X:40:THR:O	1:X:41:SER:HB2	0.40	2.15
1:A:174:LYS:HB3	1:Q:174:LYS:HG3	0.40	1.94
1:B:24:PHE:O	1:B:24:PHE:CD1	0.40	2.74
1:C:132:THR:CG2	1:C:148:PRO:HD2	0.40	2.46
1:D:148:PRO:HD3	1:E:47:PHE:CE2	0.40	2.51
1:E:166:LYS:HG3	1:U:54:PHE:CG	0.40	2.51
1:E:167:PRO:HB3	1:U:16:PRO:CG	0.40	2.47
1:E:167:PRO:HG3	1:U:16:PRO:C	0.40	2.40
1:G:15:PHE:HB3	1:X:23:LEU:CB	0.40	2.41
1:G:56:ARG:HH12	1:X:31:HIS:HD2	0.40	1.58
1:G:167:PRO:HG2	1:G:168:ALA:H	0.40	1.75
1:I:63:THR:OG1	1:I:65:LEU:HD13	0.40	2.16
1:K:85:SER:N	1:K:86:PRO:CD	0.40	2.84
1:M:48:TYR:CZ	1:R:72:LYS:HD2	0.40	2.51
1:M:155:PRO:HA	1:R:130:PRO:HB2	0.40	1.93
1:N:95:GLY:CA	1:N:130:PRO:HG3	0.40	2.47
1:Q:63:THR:OG1	1:Q:64:GLY:N	0.40	2.53
1:S:109:ASP:HB2	1:S:112:GLY:O	0.40	2.16
1:S:175:LYS:OXT	1:W:1:MET:HB3	0.40	2.17
1:U:78:ASN:OD1	1:U:144:THR:HG23	0.40	2.17
1:V:170:THR:HG22	1:V:171:ALA:N	0.40	2.31
1:A:63:THR:OG1	1:A:65:LEU:HD13	0.40	2.17

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Atom-1	Atom-2	Clash(Å)	Distance(Å)
1:B:155:PRO:O	1:B:156:GLU:C	0.40	2.65
1:C:85:SER:N	1:C:86:PRO:CD	0.40	2.85
1:E:72:LYS:HD2	1:E:127:ASP:CG	0.40	2.42
1:G:131:LEU:HD23	1:L:156:GLU:HB2	0.40	1.93
1:M:154:GLY:C	1:R:131:LEU:HG	0.40	2.42
1:N:69:ARG:O	1:N:70:LEU:C	0.40	2.64
1:N:154:GLY:HA3	1:O:131:LEU:HD11	0.40	1.94
1:O:65:LEU:C	1:O:67:GLU:H	0.40	2.24
1:P:137:LEU:HG	1:P:138:SER:N	0.40	2.32
1:P:138:SER:CA	1:Q:164:GLU:HB2	0.40	2.46
1:Q:42:THR:HG22	1:Q:43:SER:H	0.40	1.77
1:R:85:SER:N	1:R:86:PRO:CD	0.40	2.85
1:S:111:HIS:HB2	1:T:124:ILE:HG23	0.40	1.93
1:V:19:SER:HB3	1:V:20:PRO:HD3	0.40	1.92

6.3 Torsion angles ⓘ

6.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR 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	A	173/175 (99%)	115 (66%)	45 (26%)	13 (8%)	1	15
1	B	173/175 (99%)	122 (71%)	36 (21%)	15 (9%)	1	12
1	C	173/175 (99%)	119 (69%)	36 (21%)	18 (10%)	1	9
1	D	173/175 (99%)	121 (70%)	31 (18%)	21 (12%)	1	7
1	E	173/175 (99%)	120 (69%)	40 (23%)	13 (8%)	1	15
1	F	125/175 (71%)	91 (73%)	23 (18%)	11 (9%)	1	12
1	G	0	-	-	-	-	-
1	H	6/175 (3%)	4 (67%)	2 (33%)	0 (0%)	100	100
1	I	173/175 (99%)	120 (69%)	35 (20%)	18 (10%)	1	9
1	J	173/175 (99%)	124 (72%)	32 (18%)	17 (10%)	1	10
1	K	173/175 (99%)	117 (68%)	38 (22%)	18 (10%)	1	9
1	L	173/175 (99%)	120 (69%)	35 (20%)	18 (10%)	1	9
1	M	173/175 (99%)	116 (67%)	42 (24%)	15 (9%)	1	12

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	N	173/175 (99%)	120 (69%)	37 (21%)	16 (9%)	1	11
1	O	52/175 (30%)	33 (63%)	13 (25%)	6 (12%)	1	7
1	P	0	-	-	-	-	-
1	Q	0	-	-	-	-	-
1	R	0	-	-	-	-	-
1	S	0	-	-	-	-	-
1	T	44/175 (25%)	22 (50%)	14 (32%)	8 (18%)	0	3
1	U	173/175 (99%)	116 (67%)	41 (24%)	16 (9%)	1	11
1	V	173/175 (99%)	118 (68%)	39 (23%)	16 (9%)	1	11
1	W	173/175 (99%)	117 (68%)	42 (24%)	14 (8%)	1	13
1	X	173/175 (99%)	120 (69%)	34 (20%)	19 (11%)	1	8
All	All	2822/4200 (67%)	1935 (69%)	615 (22%)	272 (10%)	1	10

All 272 Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type
1	A	2	ASP
1	A	18	HIS
1	A	21	SER
1	A	39	PRO
1	A	41	SER
1	A	47	PHE
1	A	70	LEU
1	A	74	ARG
1	A	148	PRO
1	A	163	ARG
1	A	165	GLU
1	A	167	PRO
1	A	168	ALA
1	B	19	SER
1	B	20	PRO
1	B	39	PRO
1	B	45	SER
1	B	46	PRO
1	B	47	PHE
1	B	70	LEU
1	B	110	GLU
1	B	132	THR
1	B	148	PRO

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Mol	Chain	Res	Type
1	B	152	VAL
1	B	155	PRO
1	B	156	GLU
1	B	166	LYS
1	B	168	ALA
1	C	15	PHE
1	C	18	HIS
1	C	20	PRO
1	C	21	SER
1	C	39	PRO
1	C	41	SER
1	C	47	PHE
1	C	66	SER
1	C	70	LEU
1	C	74	ARG
1	C	130	PRO
1	C	148	PRO
1	C	162	THR
1	C	165	GLU
1	C	166	LYS
1	C	167	PRO
1	C	168	ALA
1	C	171	ALA
1	D	19	SER
1	D	20	PRO
1	D	21	SER
1	D	39	PRO
1	D	45	SER
1	D	46	PRO
1	D	47	PHE
1	D	66	SER
1	D	69	ARG
1	D	70	LEU
1	D	71	GLU
1	D	81	VAL
1	D	110	GLU
1	D	132	THR
1	D	148	PRO
1	D	152	VAL
1	D	155	PRO
1	D	156	GLU
1	D	164	GLU

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Mol	Chain	Res	Type
1	D	166	LYS
1	D	168	ALA
1	E	12	ARG
1	E	16	PRO
1	E	18	HIS
1	E	20	PRO
1	E	39	PRO
1	E	44	LEU
1	E	64	GLY
1	E	70	LEU
1	E	148	PRO
1	E	165	GLU
1	E	166	LYS
1	E	167	PRO
1	E	168	ALA
1	F	19	SER
1	F	20	PRO
1	F	39	PRO
1	F	45	SER
1	F	46	PRO
1	F	47	PHE
1	F	70	LEU
1	F	110	GLU
1	F	132	THR
1	F	148	PRO
1	F	152	VAL
1	I	2	ASP
1	I	15	PHE
1	I	18	HIS
1	I	21	SER
1	I	39	PRO
1	I	41	SER
1	I	47	PHE
1	I	70	LEU
1	I	77	VAL
1	I	130	PRO
1	I	148	PRO
1	I	162	THR
1	I	163	ARG
1	I	164	GLU
1	I	165	GLU
1	I	166	LYS

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Mol	Chain	Res	Type
1	I	167	PRO
1	I	168	ALA
1	J	19	SER
1	J	20	PRO
1	J	39	PRO
1	J	45	SER
1	J	46	PRO
1	J	47	PHE
1	J	70	LEU
1	J	71	GLU
1	J	81	VAL
1	J	110	GLU
1	J	132	THR
1	J	148	PRO
1	J	152	VAL
1	J	155	PRO
1	J	156	GLU
1	J	166	LYS
1	J	167	PRO
1	K	15	PHE
1	K	18	HIS
1	K	21	SER
1	K	39	PRO
1	K	41	SER
1	K	44	LEU
1	K	47	PHE
1	K	66	SER
1	K	70	LEU
1	K	76	SER
1	K	77	VAL
1	K	148	PRO
1	K	149	ARG
1	K	163	ARG
1	K	164	GLU
1	K	166	LYS
1	K	167	PRO
1	K	168	ALA
1	L	19	SER
1	L	20	PRO
1	L	24	PHE
1	L	26	GLN
1	L	39	PRO

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Mol	Chain	Res	Type
1	L	45	SER
1	L	46	PRO
1	L	47	PHE
1	L	70	LEU
1	L	81	VAL
1	L	110	GLU
1	L	132	THR
1	L	148	PRO
1	L	152	VAL
1	L	155	PRO
1	L	156	GLU
1	L	166	LYS
1	L	167	PRO
1	M	2	ASP
1	M	16	PRO
1	M	18	HIS
1	M	20	PRO
1	M	21	SER
1	M	39	PRO
1	M	41	SER
1	M	44	LEU
1	M	47	PHE
1	M	70	LEU
1	M	148	PRO
1	M	150	LYS
1	M	165	GLU
1	M	167	PRO
1	M	168	ALA
1	N	19	SER
1	N	20	PRO
1	N	39	PRO
1	N	45	SER
1	N	46	PRO
1	N	47	PHE
1	N	70	LEU
1	N	81	VAL
1	N	110	GLU
1	N	132	THR
1	N	148	PRO
1	N	152	VAL
1	N	155	PRO
1	N	156	GLU

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Mol	Chain	Res	Type
1	N	166	LYS
1	N	168	ALA
1	O	16	PRO
1	O	18	HIS
1	O	21	SER
1	O	39	PRO
1	O	41	SER
1	O	47	PHE
1	T	132	THR
1	T	148	PRO
1	T	152	VAL
1	T	155	PRO
1	T	156	GLU
1	T	164	GLU
1	T	166	LYS
1	T	167	PRO
1	U	16	PRO
1	U	18	HIS
1	U	20	PRO
1	U	21	SER
1	U	39	PRO
1	U	41	SER
1	U	47	PHE
1	U	70	LEU
1	U	130	PRO
1	U	148	PRO
1	U	149	ARG
1	U	150	LYS
1	U	163	ARG
1	U	165	GLU
1	U	166	LYS
1	U	167	PRO
1	V	19	SER
1	V	20	PRO
1	V	39	PRO
1	V	45	SER
1	V	46	PRO
1	V	47	PHE
1	V	70	LEU
1	V	81	VAL
1	V	110	GLU
1	V	132	THR

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Mol	Chain	Res	Type
1	V	148	PRO
1	V	152	VAL
1	V	155	PRO
1	V	156	GLU
1	V	166	LYS
1	V	168	ALA
1	W	20	PRO
1	W	21	SER
1	W	39	PRO
1	W	41	SER
1	W	44	LEU
1	W	66	SER
1	W	70	LEU
1	W	76	SER
1	W	77	VAL
1	W	148	PRO
1	W	162	THR
1	W	163	ARG
1	W	165	GLU
1	W	167	PRO
1	X	19	SER
1	X	20	PRO
1	X	39	PRO
1	X	45	SER
1	X	46	PRO
1	X	47	PHE
1	X	69	ARG
1	X	70	LEU
1	X	81	VAL
1	X	110	GLU
1	X	132	THR
1	X	148	PRO
1	X	152	VAL
1	X	155	PRO
1	X	156	GLU
1	X	164	GLU
1	X	166	LYS
1	X	168	ALA
1	X	169	VAL

6.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR 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	A	0	-	-	-
1	B	0	-	-	-
1	C	0	-	-	-
1	D	0	-	-	-
1	E	0	-	-	-
1	F	0	-	-	-
1	G	0	-	-	-
1	H	0	-	-	-
1	I	0	-	-	-
1	J	0	-	-	-
1	K	0	-	-	-
1	L	0	-	-	-
1	M	0	-	-	-
1	N	0	-	-	-
1	O	0	-	-	-
1	P	0	-	-	-
1	Q	0	-	-	-
1	R	0	-	-	-
1	S	0	-	-	-
1	T	0	-	-	-
1	U	0	-	-	-
1	V	0	-	-	-
1	W	0	-	-	-
1	X	0	-	-	-
All	All	0	-	-	-

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

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

6.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

No chemical shift data were provided