Full wwPDB X-ray Structure Validation Report ⓘ

May 27, 2020 – 04:19 am BST

PDB ID	:	3PHF
Title	:	Crystal Structure of the Epstein-Barr virus gH and gL complex
Authors	:	Matsuura, H.; Kirschner, A.N.; Jardetzky, T.S.
Deposited on	:	2010-11-04
Resolution	:	3.58 Å(reported)

This is a Full wwPDB X-ray 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/XrayValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see references ①) were used in the production of this report:

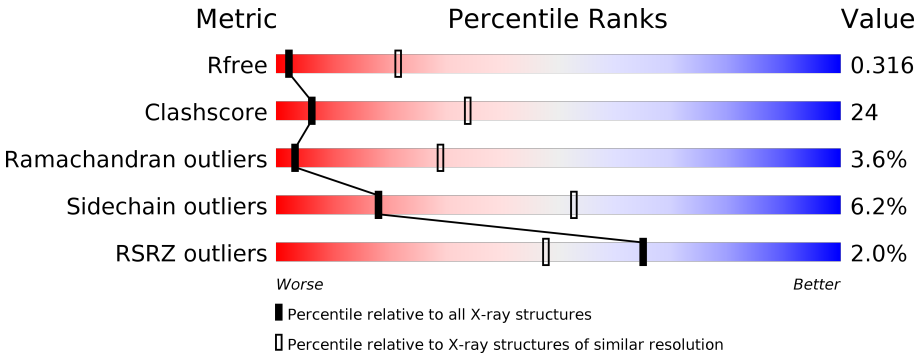
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.11
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.58 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1094 (3.66-3.50)
Clashscore	141614	1181 (3.66-3.50)
Ramachandran outliers	138981	1143 (3.66-3.50)
Sidechain outliers	138945	1143 (3.66-3.50)
RSRZ outliers	127900	1012 (3.66-3.50)

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

Mol	Chain	Length	Quality of chain
1	1	653	53% 43% .
1	3	653	2% 56% 40% .
1	5	653	2% 54% 42% .
1	A	653	% 53% 43% .
1	C	653	53% 42% 5%
1	E	653	% 54% 42% .

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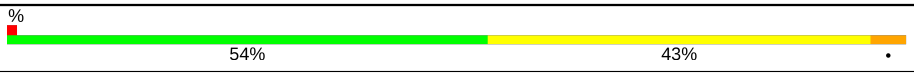
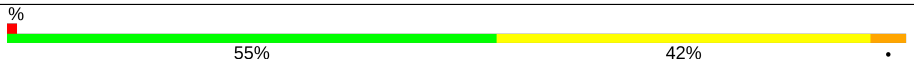
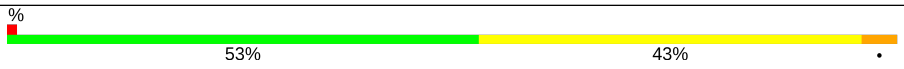
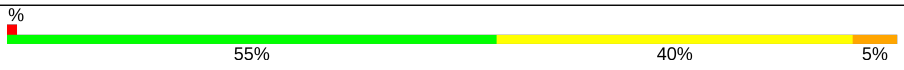
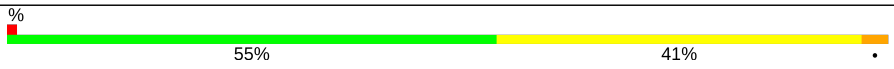
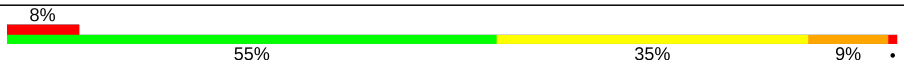
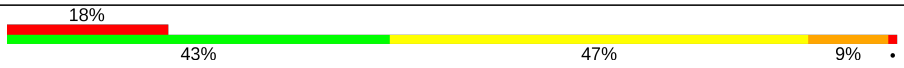
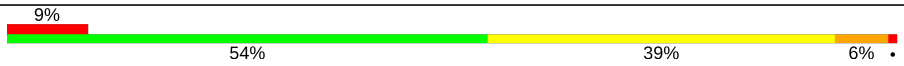
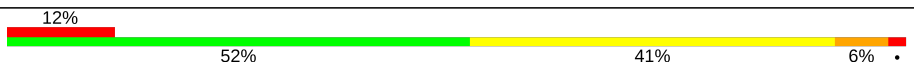
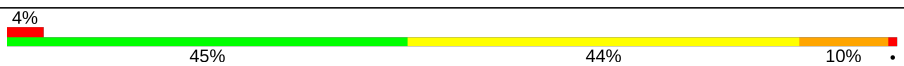
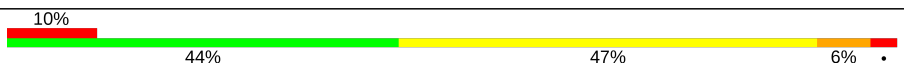
Mol	Chain	Length	Quality of chain
1	G	653	
1	I	653	
1	K	653	
1	M	653	
1	O	653	
1	Q	653	
1	S	653	
1	U	653	
1	W	653	
1	Y	653	
2	2	108	
2	4	108	
2	6	108	
2	B	108	
2	D	108	
2	F	108	
2	H	108	
2	J	108	
2	L	108	
2	N	108	
2	P	108	
2	R	108	
2	T	108	
2	V	108	
2	X	108	

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Mol	Chain	Length	Quality of chain
2	Z	108	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 94656 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 Envelope glycoprotein H.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	653	Total	C	N	O	S	0	0	0
			5078	3253	840	954	31			
1	C	653	Total	C	N	O	S	0	0	0
			5078	3253	840	954	31			
1	E	653	Total	C	N	O	S	0	0	0
			5078	3253	840	954	31			
1	G	653	Total	C	N	O	S	0	0	0
			5078	3253	840	954	31			
1	I	653	Total	C	N	O	S	0	0	0
			5078	3253	840	954	31			
1	K	653	Total	C	N	O	S	0	0	0
			5078	3253	840	954	31			
1	M	653	Total	C	N	O	S	0	0	0
			5078	3253	840	954	31			
1	O	653	Total	C	N	O	S	0	0	0
			5078	3253	840	954	31			
1	Q	653	Total	C	N	O	S	0	0	0
			5078	3253	840	954	31			
1	S	653	Total	C	N	O	S	0	0	0
			5078	3253	840	954	31			
1	U	653	Total	C	N	O	S	0	0	0
			5078	3253	840	954	31			
1	W	653	Total	C	N	O	S	0	0	0
			5078	3253	840	954	31			
1	Y	653	Total	C	N	O	S	0	0	0
			5078	3253	840	954	31			
1	1	653	Total	C	N	O	S	0	0	0
			5078	3253	840	954	31			
1	3	653	Total	C	N	O	S	0	0	0
			5078	3253	840	954	31			
1	5	653	Total	C	N	O	S	0	0	0
			5078	3253	840	954	31			

- Molecule 2 is a protein called Envelope glycoprotein L.

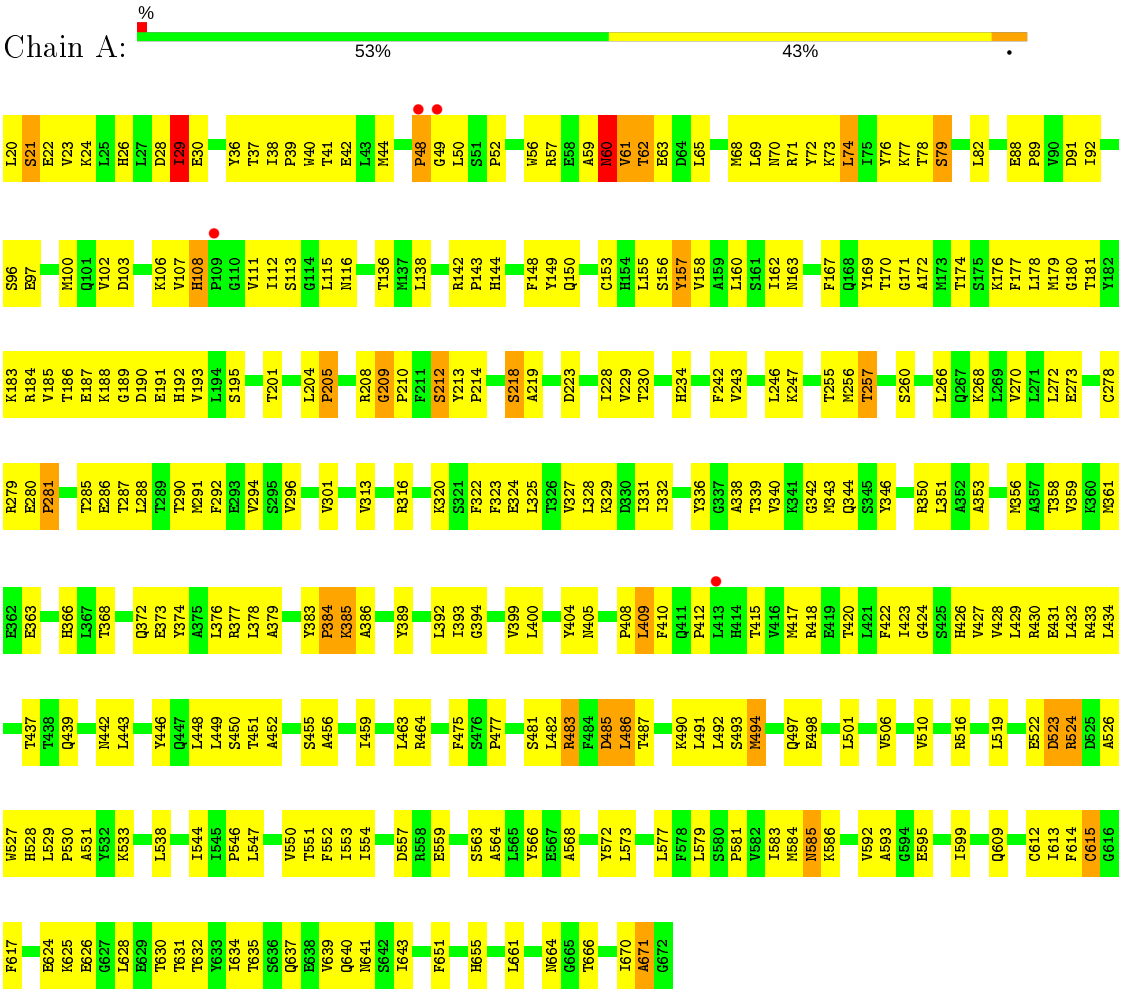
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	108	Total	C	N	O	S	0	0	0
			838	529	145	160	4			
2	D	108	Total	C	N	O	S	0	0	0
			838	529	145	160	4			
2	F	108	Total	C	N	O	S	0	0	0
			838	529	145	160	4			
2	H	108	Total	C	N	O	S	0	0	0
			838	529	145	160	4			
2	J	108	Total	C	N	O	S	0	0	0
			838	529	145	160	4			
2	L	108	Total	C	N	O	S	0	0	0
			838	529	145	160	4			
2	N	108	Total	C	N	O	S	0	0	0
			838	529	145	160	4			
2	P	108	Total	C	N	O	S	0	0	0
			838	529	145	160	4			
2	R	108	Total	C	N	O	S	0	0	0
			838	529	145	160	4			
2	T	108	Total	C	N	O	S	0	0	0
			838	529	145	160	4			
2	V	108	Total	C	N	O	S	0	0	0
			838	529	145	160	4			
2	X	108	Total	C	N	O	S	0	0	0
			838	529	145	160	4			
2	Z	108	Total	C	N	O	S	0	0	0
			838	529	145	160	4			
2	2	108	Total	C	N	O	S	0	0	0
			838	529	145	160	4			
2	4	108	Total	C	N	O	S	0	0	0
			838	529	145	160	4			
2	6	108	Total	C	N	O	S	0	0	0
			838	529	145	160	4			

3 Residue-property plots (i)

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

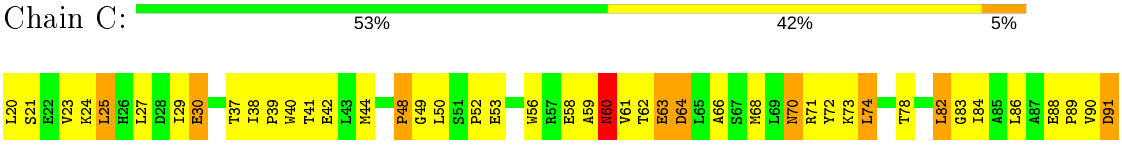
- Molecule 1: Envelope glycoprotein H

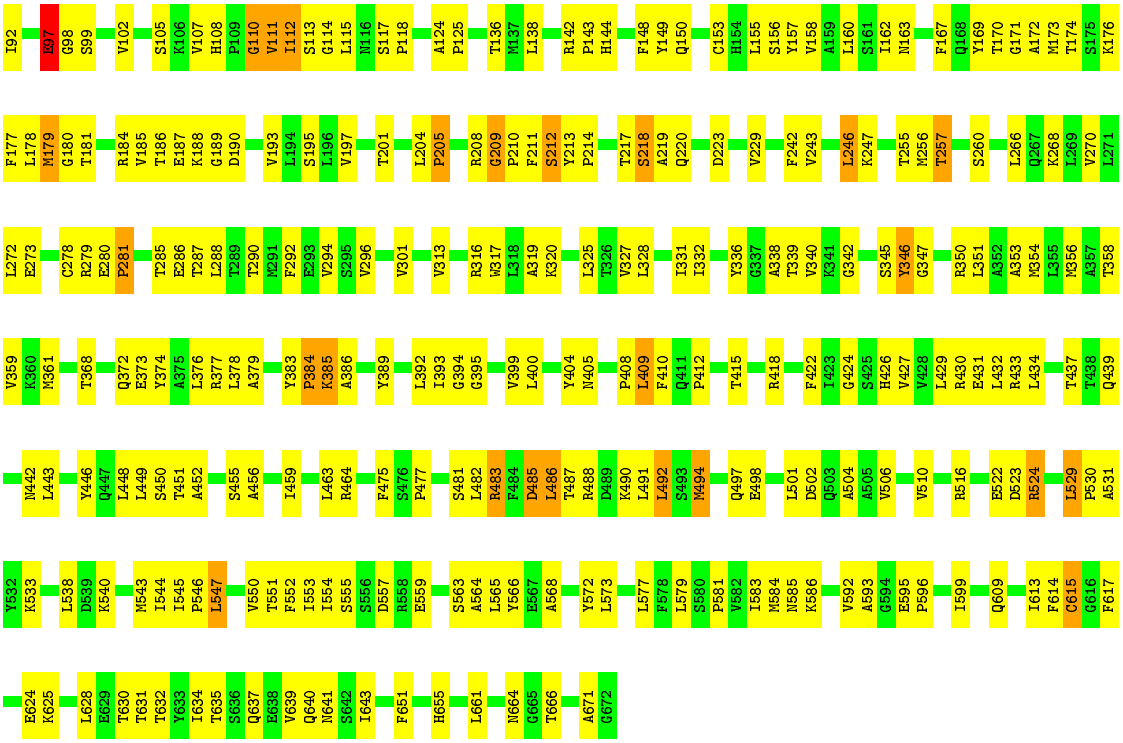
Chain A:



- Molecule 1: Envelope glycoprotein H

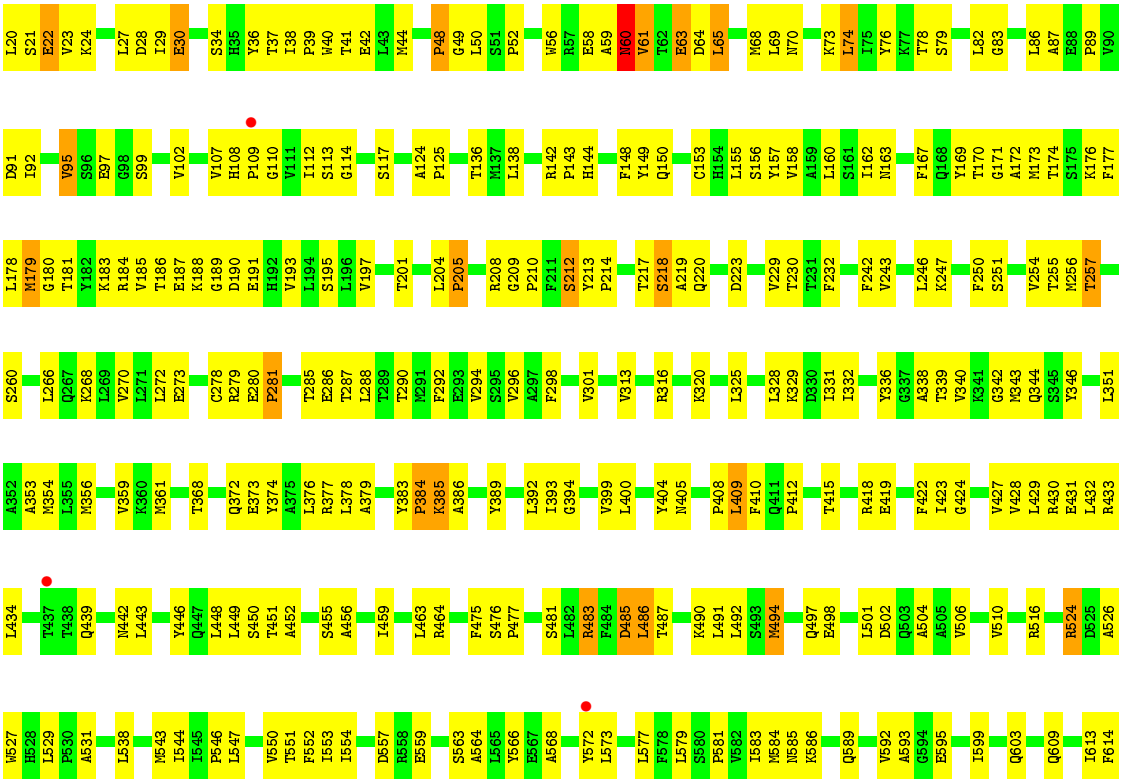
Chain C:

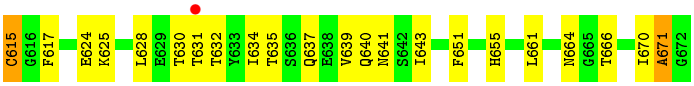




• Molecule 1: Envelope glycoprotein H

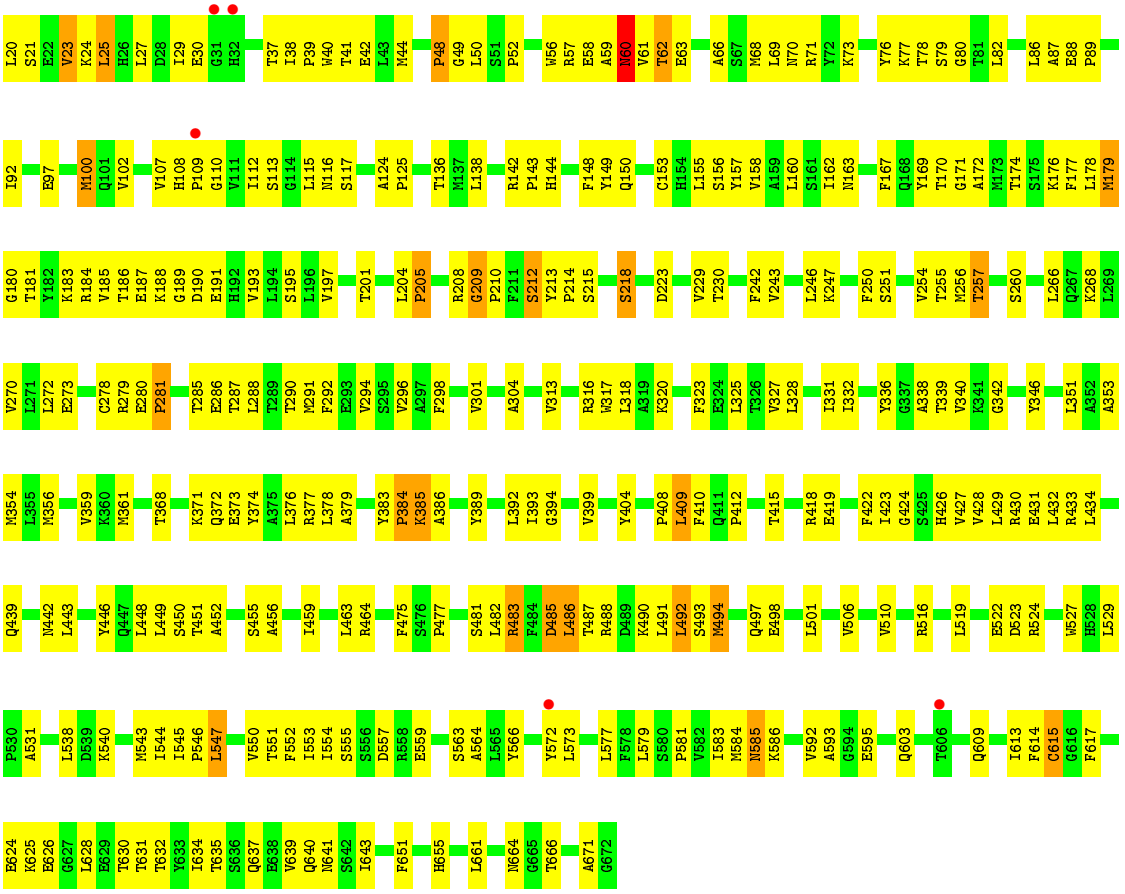
Chain E:





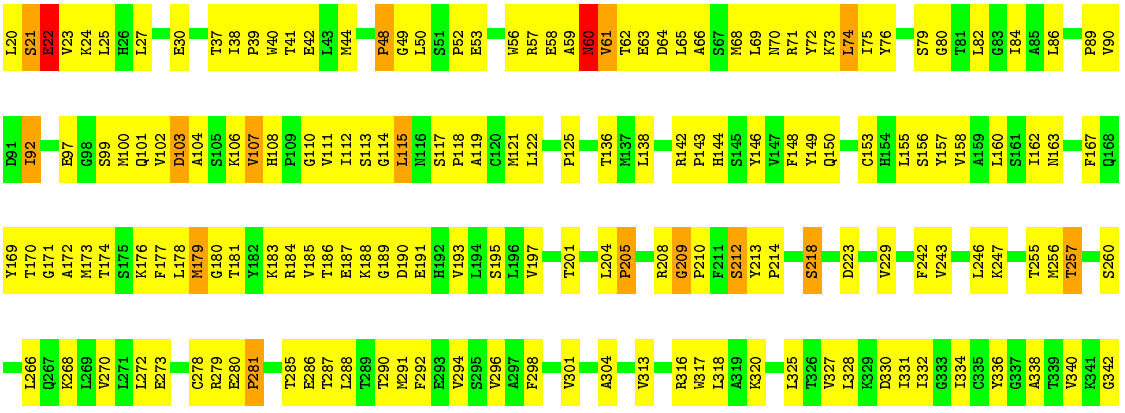
• Molecule 1: Envelope glycoprotein H

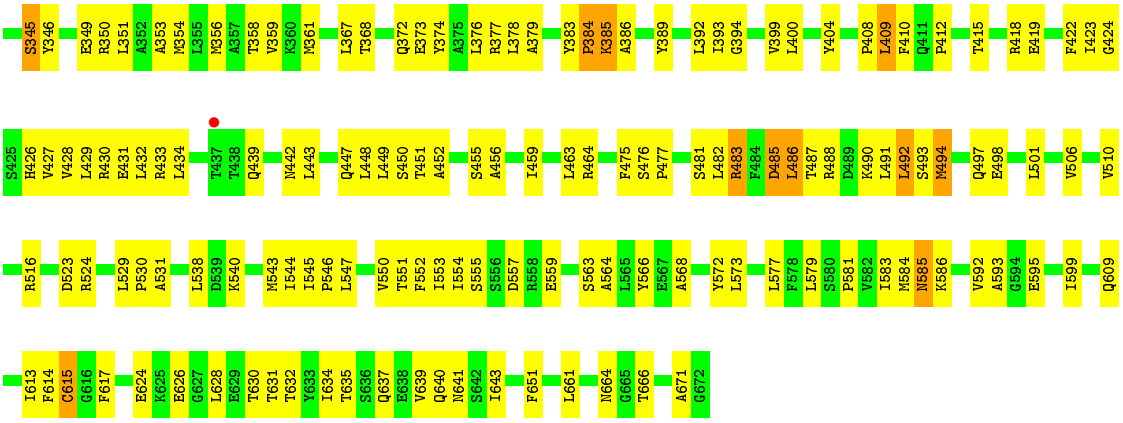
Chain G:



• Molecule 1: Envelope glycoprotein H

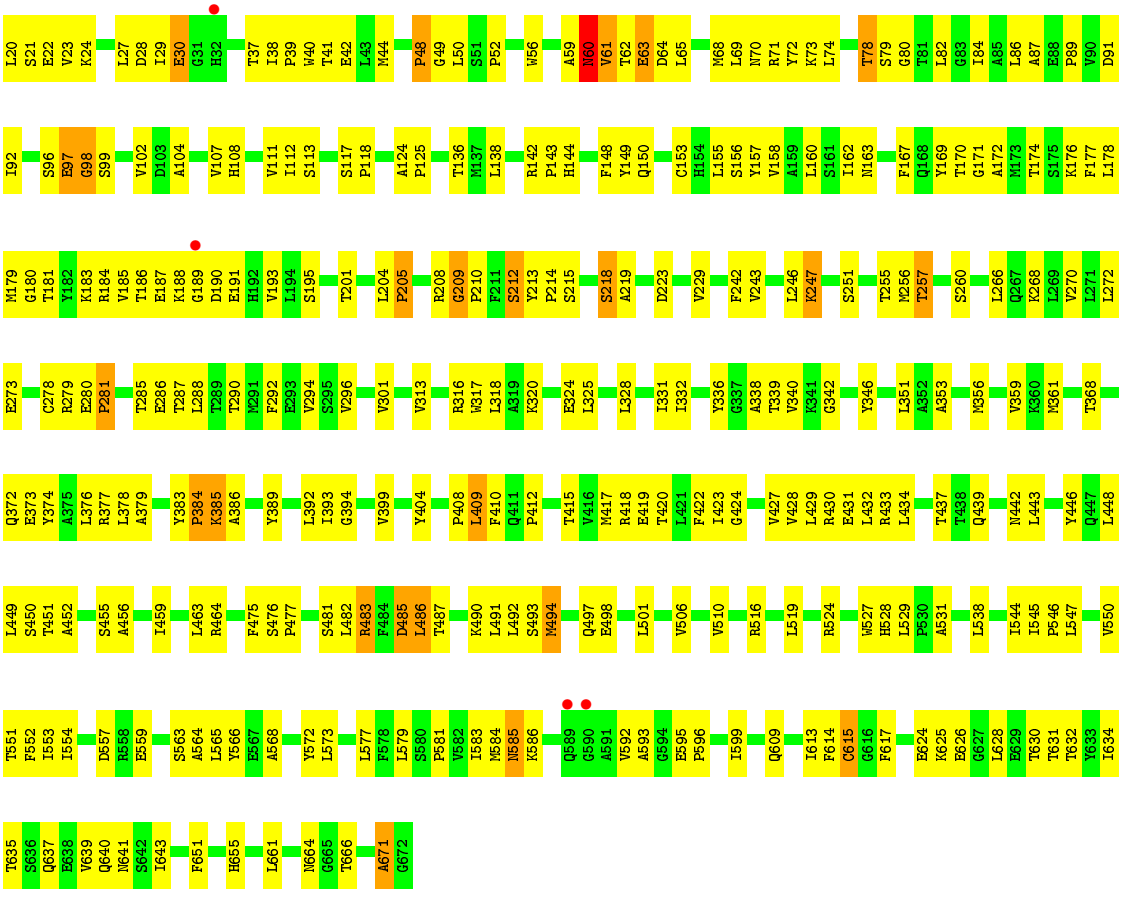
Chain I:





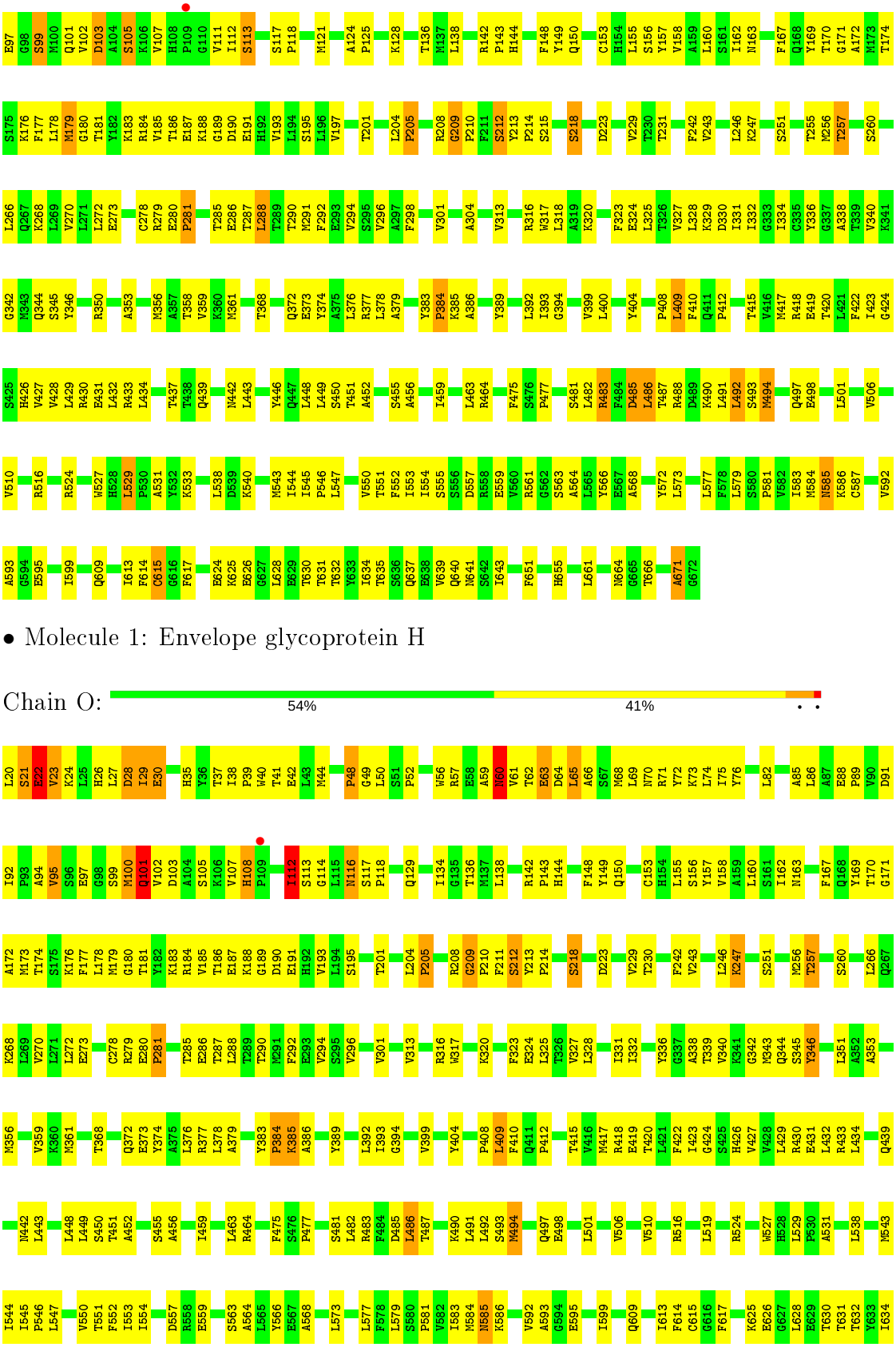
• Molecule 1: Envelope glycoprotein H

Chain K:



• Molecule 1: Envelope glycoprotein H

Chain M:

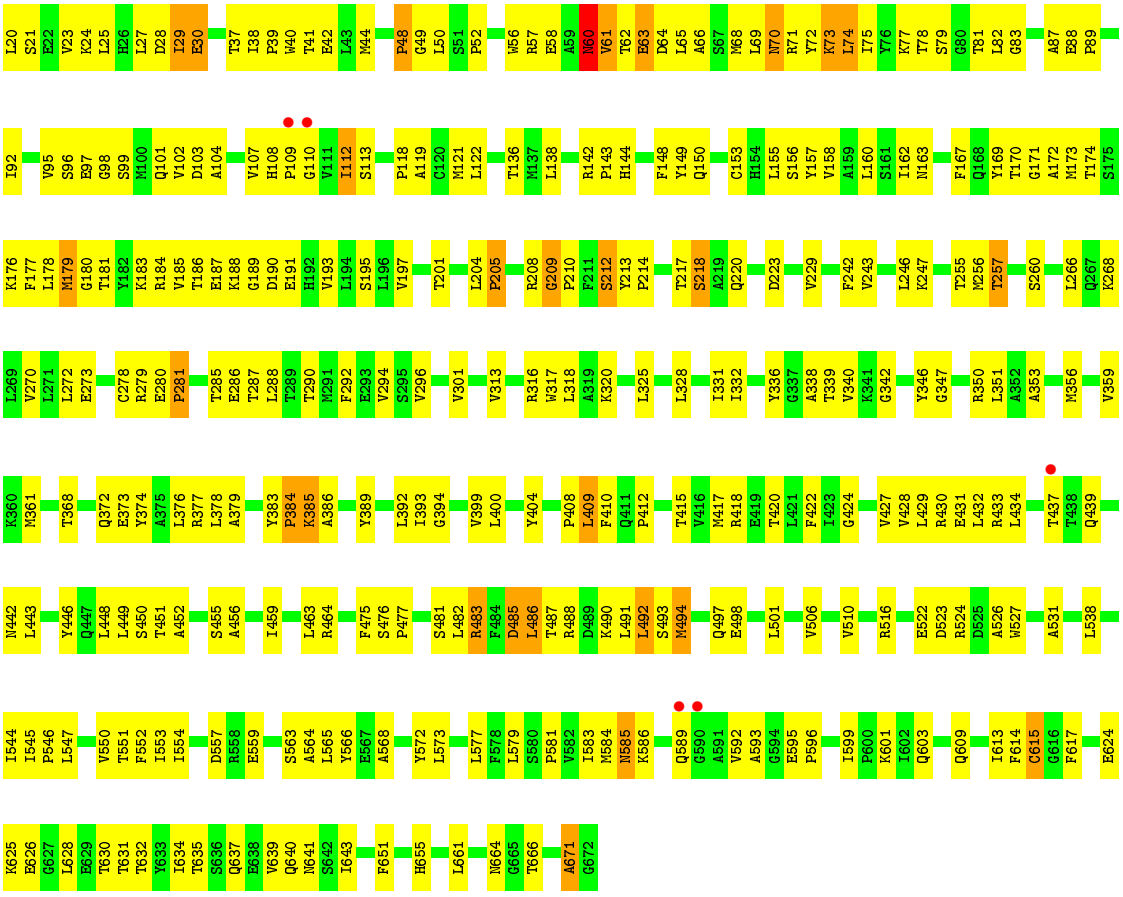


- Molecule 1: Envelope glycoprotein H

Chain O:

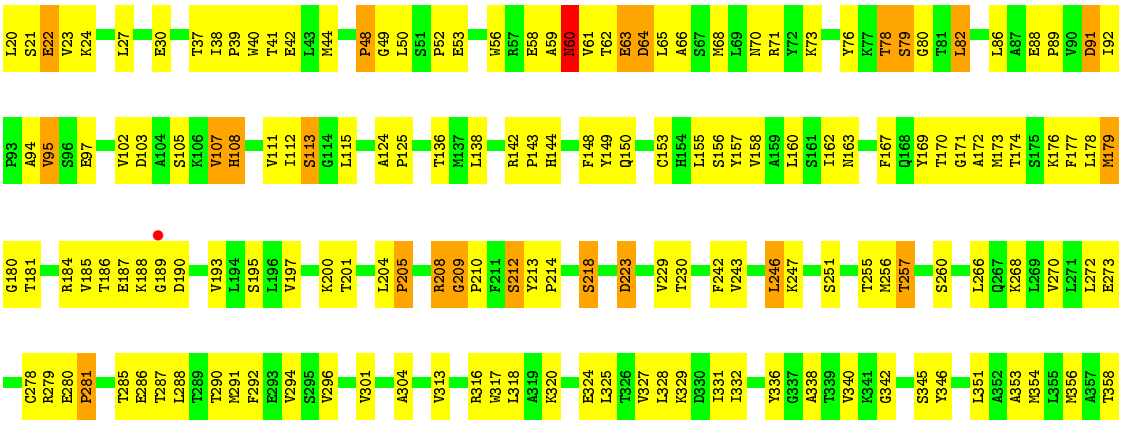
• Molecule 1: Envelope glycoprotein H

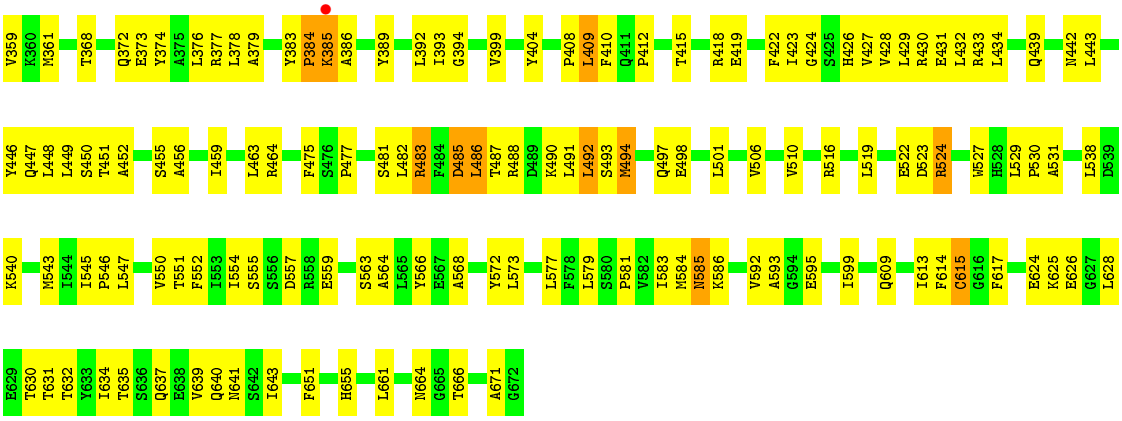
Chain Q:



• Molecule 1: Envelope glycoprotein H

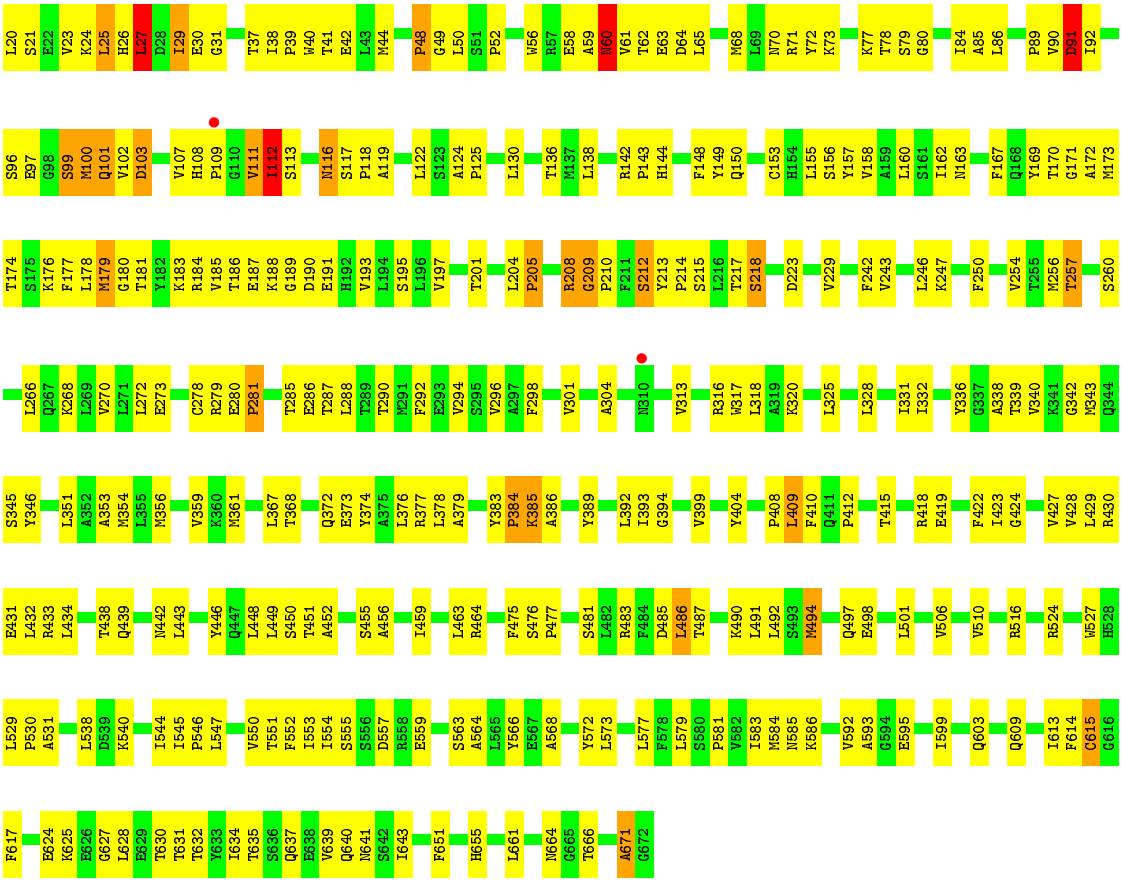
Chain S:





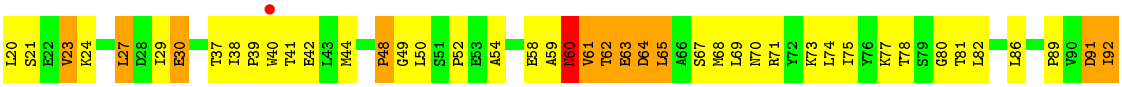
• Molecule 1: Envelope glycoprotein H

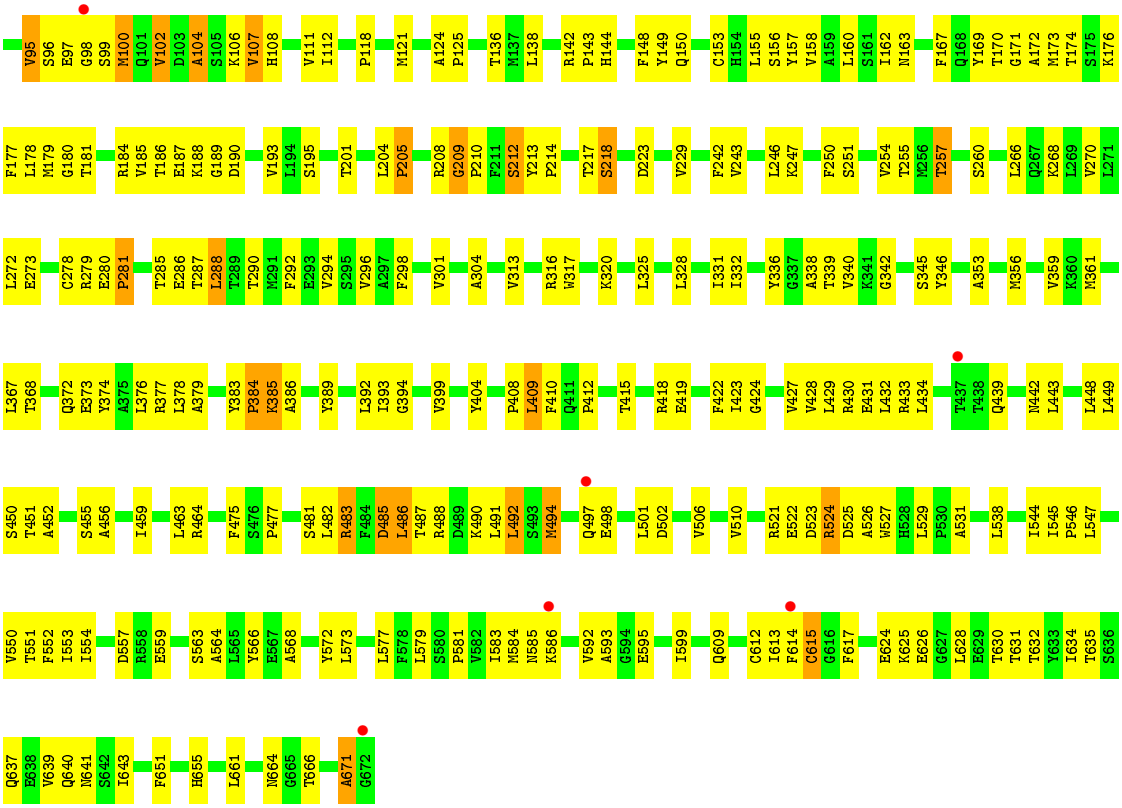
Chain U:



• Molecule 1: Envelope glycoprotein H

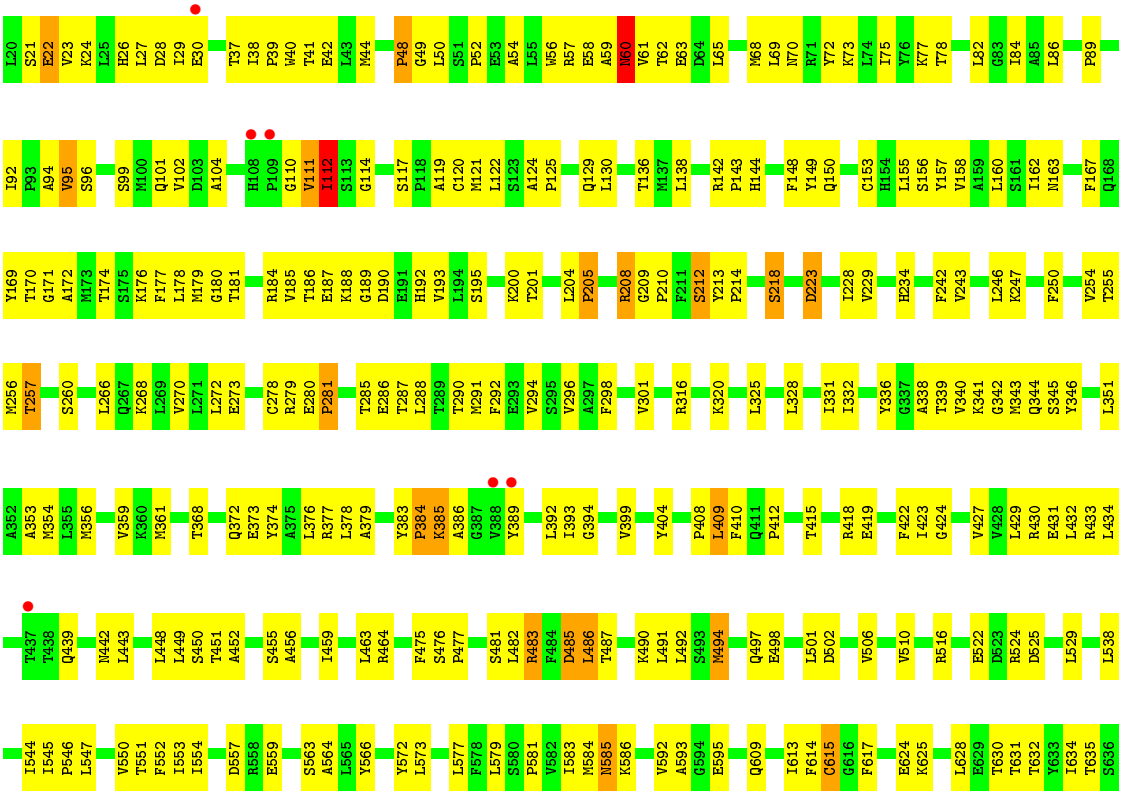
Chain W:

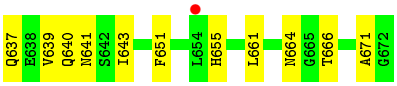




- Molecule 1: Envelope glycoprotein H

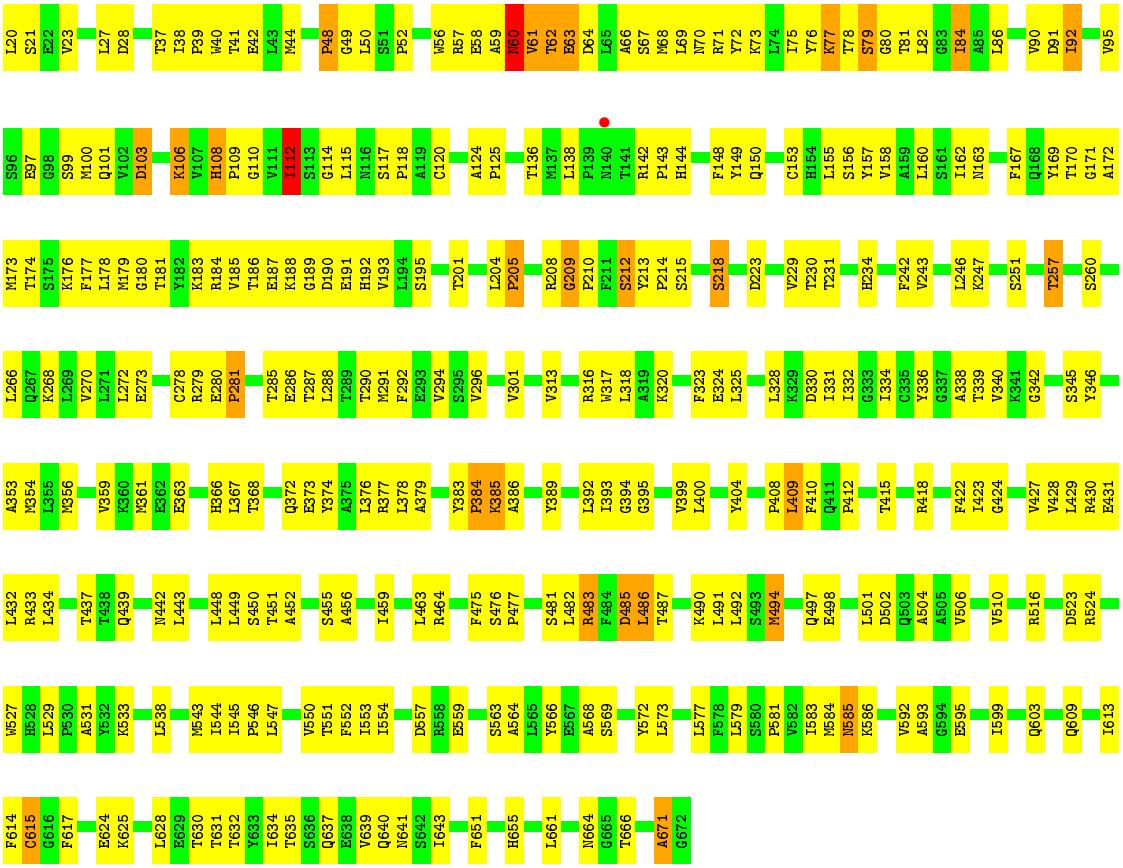
Chain Y:





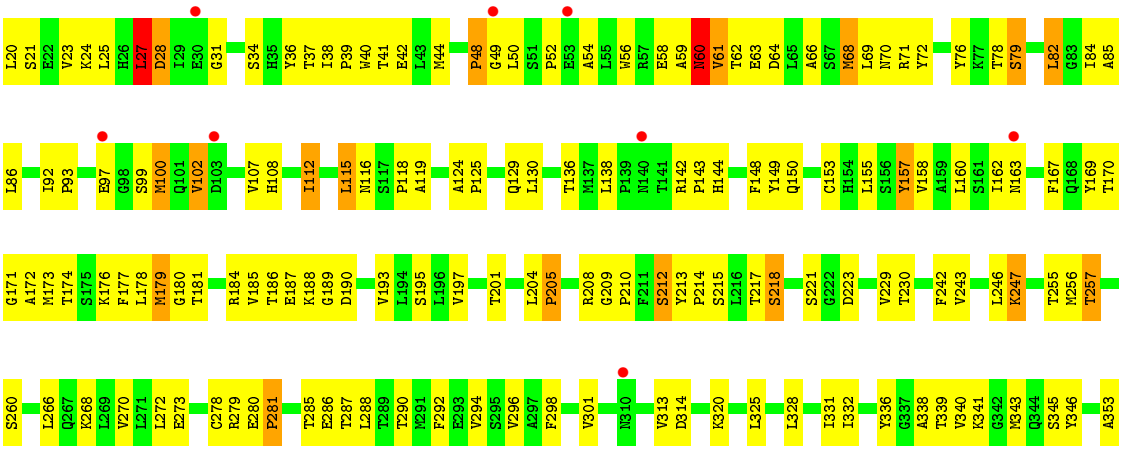
• Molecule 1: Envelope glycoprotein H

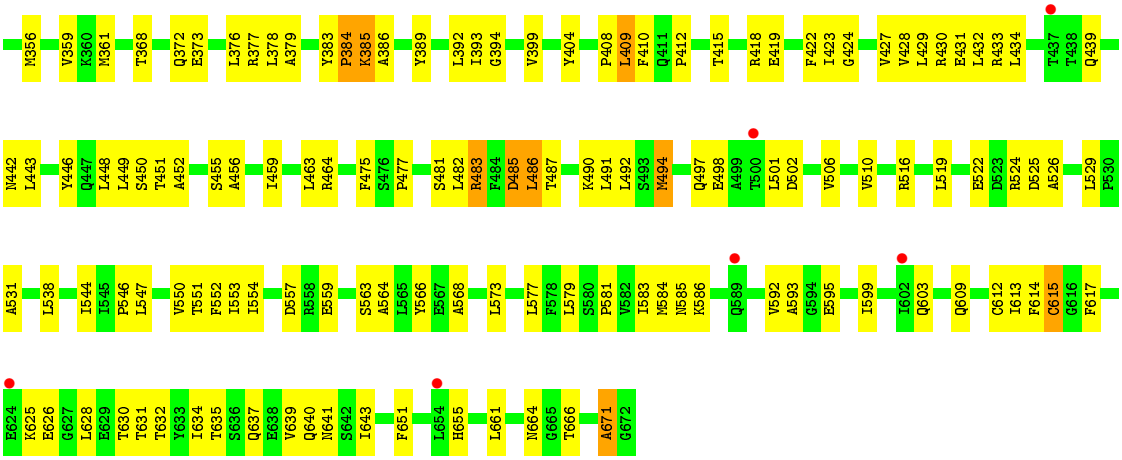
Chain 1:



• Molecule 1: Envelope glycoprotein H

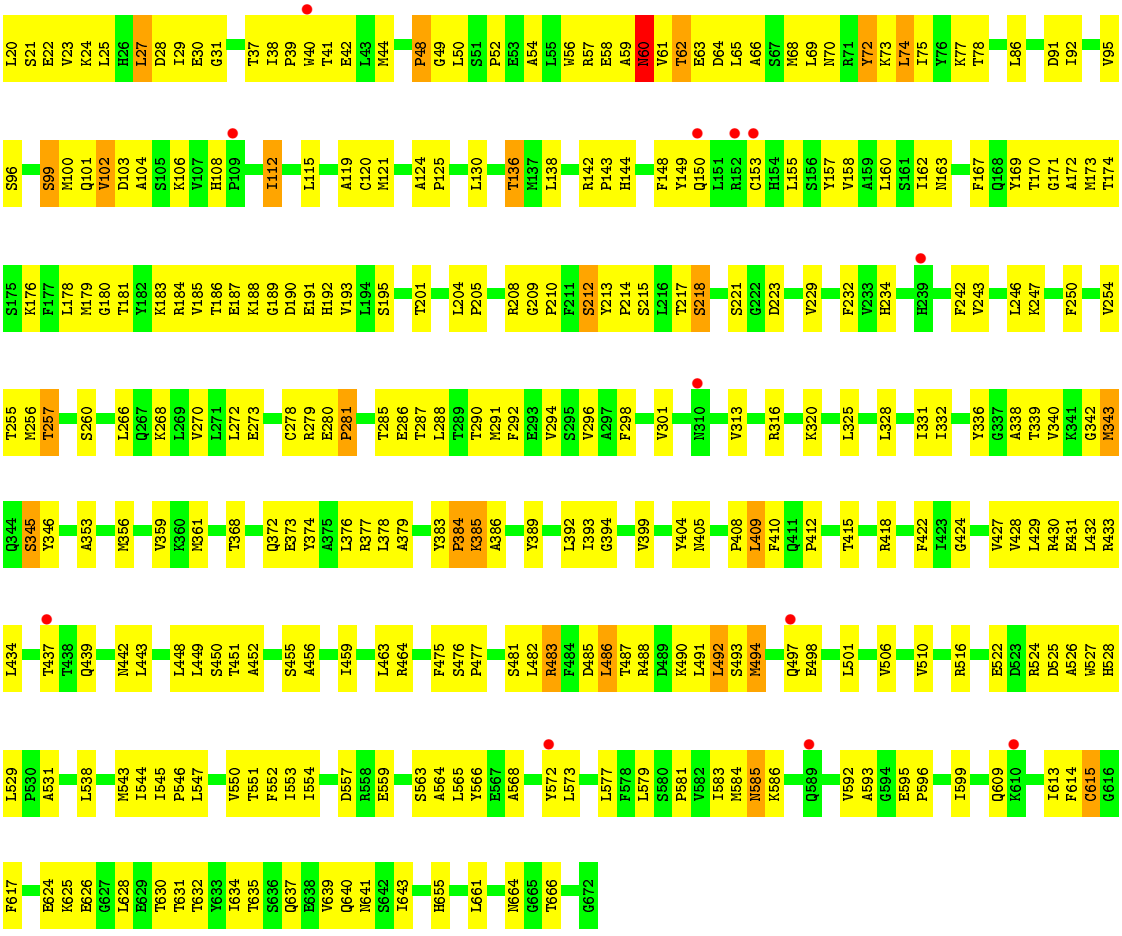
Chain 3:





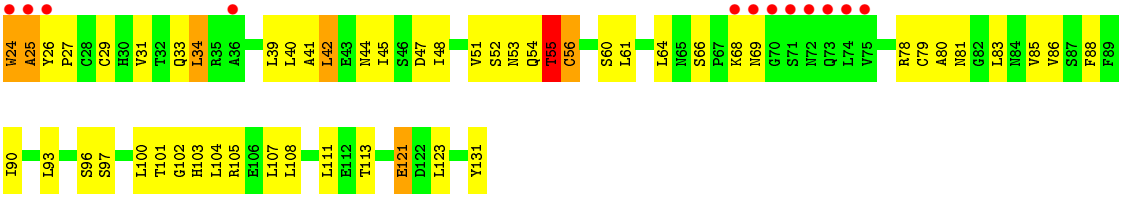
• Molecule 1: Envelope glycoprotein H

Chain 5:

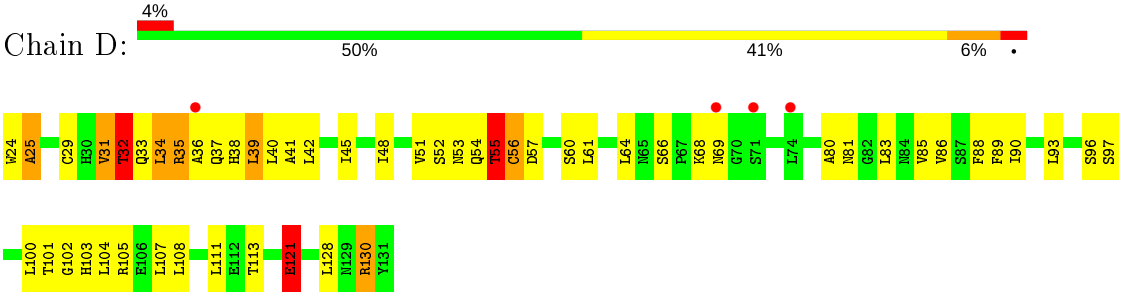


• Molecule 2: Envelope glycoprotein L

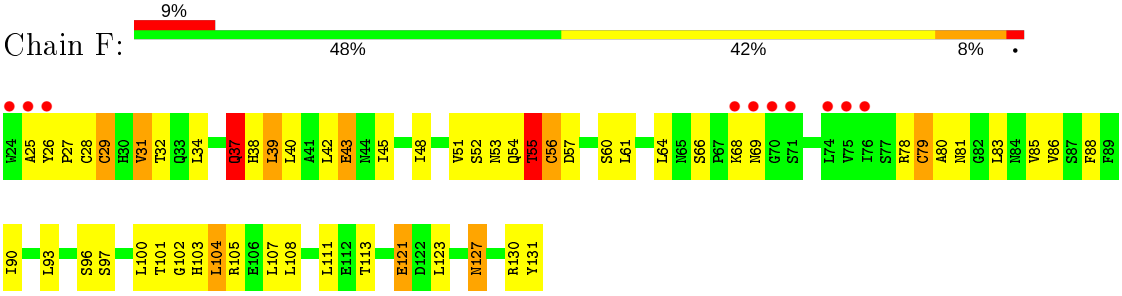
Chain B:



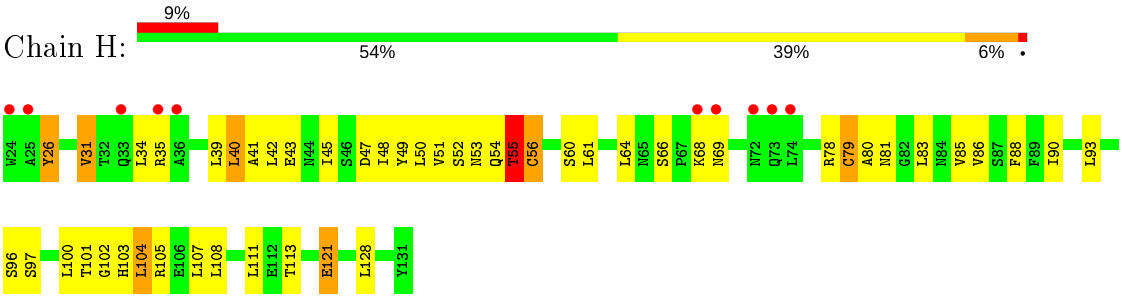
• Molecule 2: Envelope glycoprotein L



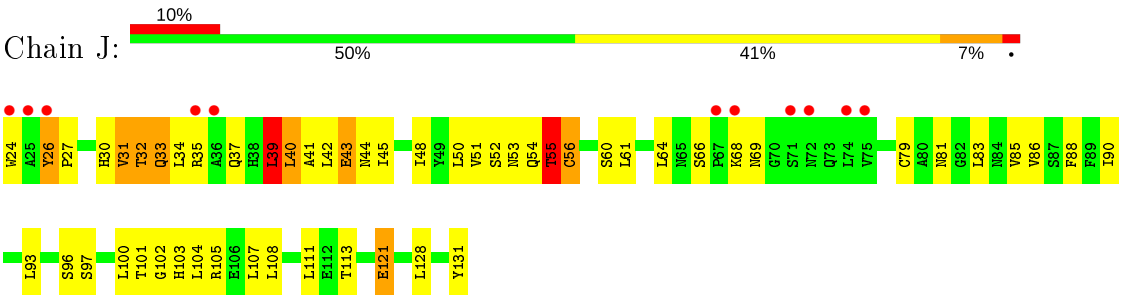
• Molecule 2: Envelope glycoprotein L



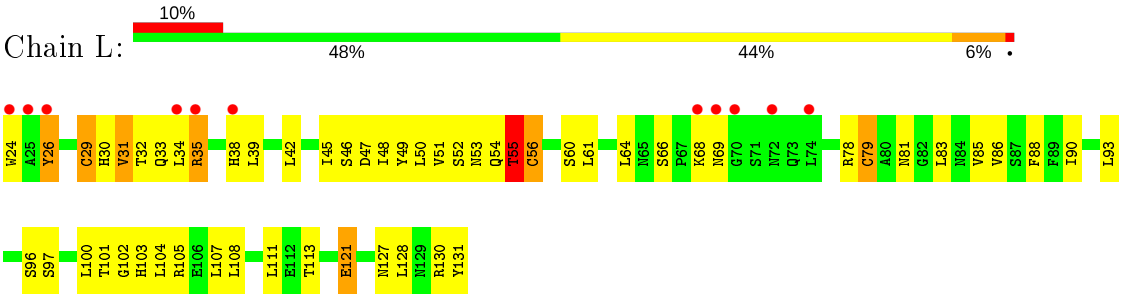
• Molecule 2: Envelope glycoprotein L



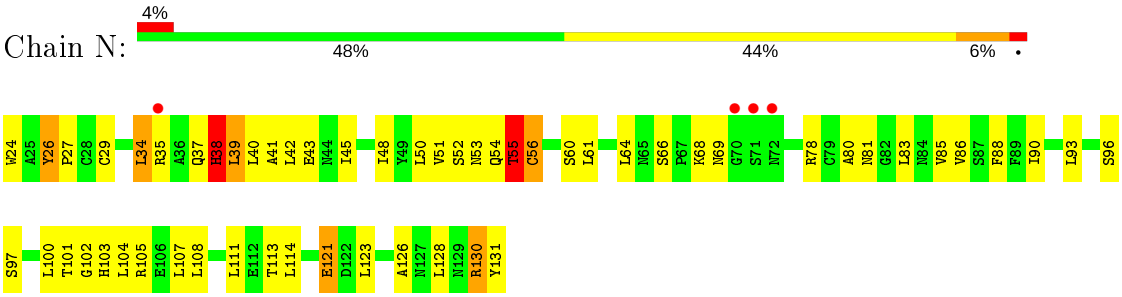
• Molecule 2: Envelope glycoprotein L



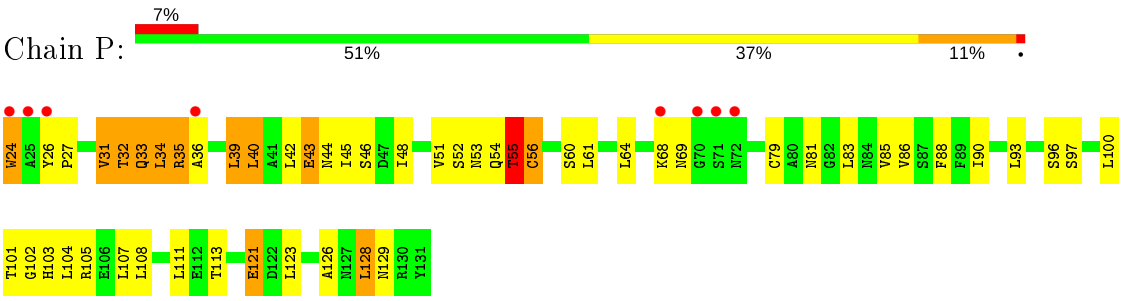
• Molecule 2: Envelope glycoprotein L



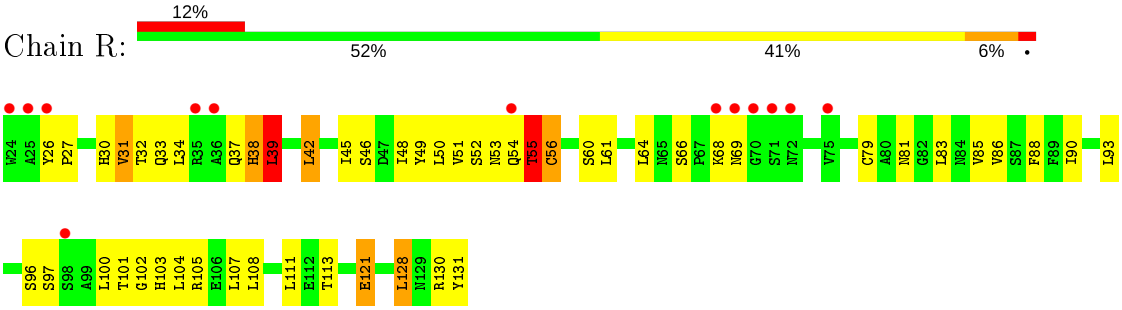
• Molecule 2: Envelope glycoprotein L



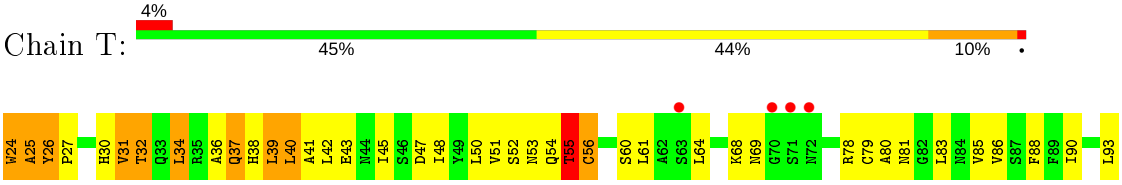
• Molecule 2: Envelope glycoprotein L

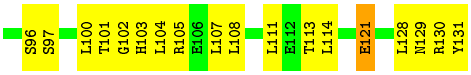


• Molecule 2: Envelope glycoprotein L



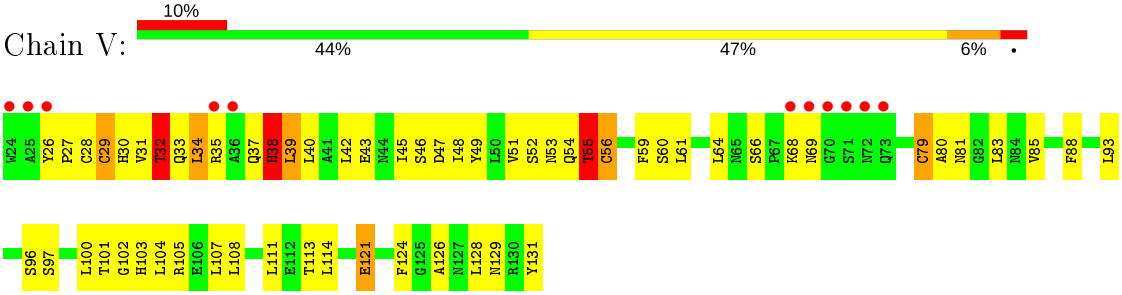
• Molecule 2: Envelope glycoprotein L





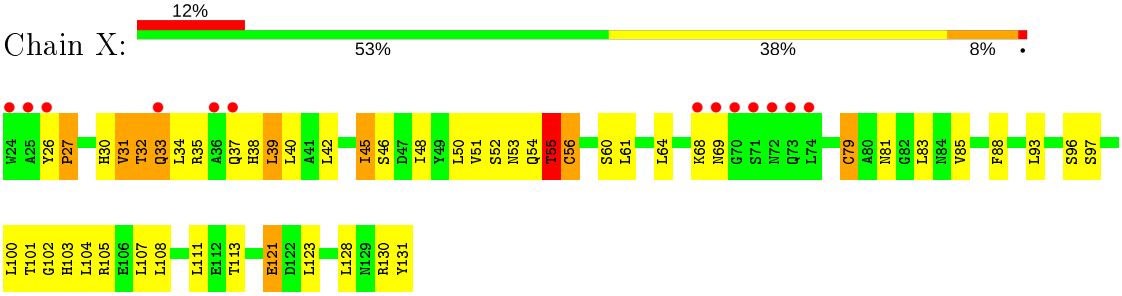
• Molecule 2: Envelope glycoprotein L

Chain V:



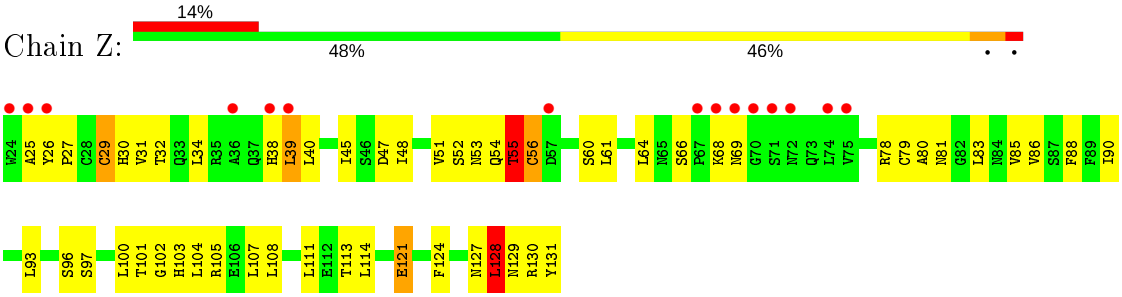
• Molecule 2: Envelope glycoprotein L

Chain X:



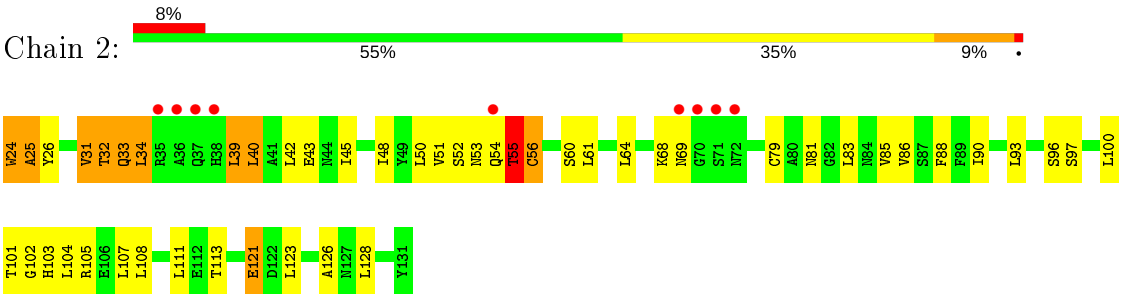
• Molecule 2: Envelope glycoprotein L

Chain Z:



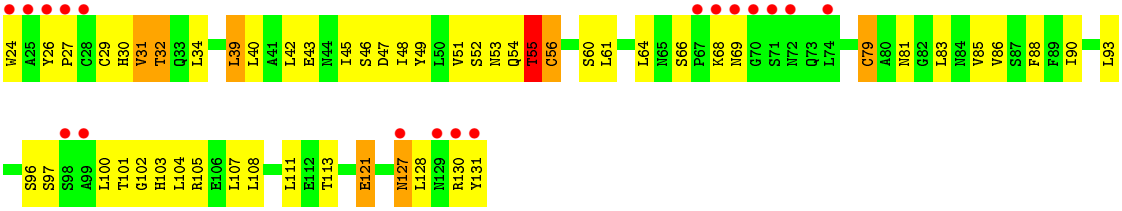
• Molecule 2: Envelope glycoprotein L

Chain 2:



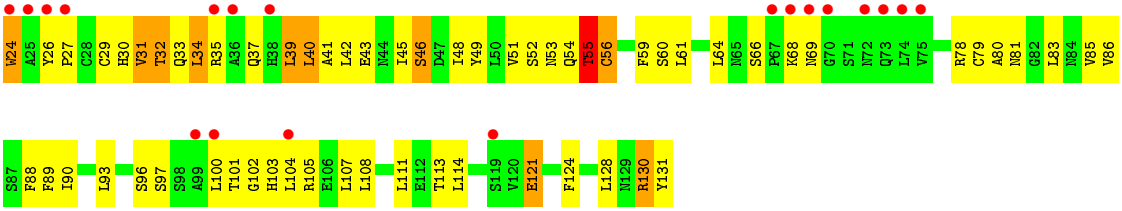
• Molecule 2: Envelope glycoprotein L

Chain 4:



• Molecule 2: Envelope glycoprotein L

Chain 6:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	151.51Å 244.91Å 287.95Å 90.00° 91.21° 90.00°	Depositor
Resolution (Å)	28.87 – 3.58 28.86 – 3.58	Depositor EDS
% Data completeness (in resolution range)	99.6 (28.87-3.58) 99.6 (28.86-3.58)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	0.14	Depositor
$< I/\sigma(I) >$ [1]	1.81 (at 3.55Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.284 , 0.313 0.288 , 0.316	Depositor DCC
R_{free} test set	2461 reflections (1.00%)	wwPDB-VP
Wilson B-factor (Å^2)	123.9	Xtriage
Anisotropy	0.147	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.26 , 99.0	EDS
L-test for twinning[2]	$< \|L\| > = 0.47$, $< L^2 > = 0.30$	Xtriage
Estimated twinning fraction	0.039 for h,-k,-l	Xtriage
F_o,F_c correlation	0.90	EDS
Total number of atoms	94656	wwPDB-VP
Average B, all atoms (Å^2)	121.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.76% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|>5$	RMSZ	#$\|Z\|>5$
1	1	0.26	0/5186	0.49	0/7037
1	3	0.26	0/5186	0.48	0/7037
1	5	0.26	0/5186	0.48	0/7037
1	A	0.26	0/5186	0.49	0/7037
1	C	0.26	0/5186	0.49	0/7037
1	E	0.26	0/5186	0.49	0/7037
1	G	0.26	0/5186	0.48	0/7037
1	I	0.26	0/5186	0.49	0/7037
1	K	0.26	0/5186	0.49	0/7037
1	M	0.26	0/5186	0.49	0/7037
1	O	0.26	0/5186	0.49	0/7037
1	Q	0.26	0/5186	0.49	0/7037
1	S	0.26	0/5186	0.49	0/7037
1	U	0.26	0/5186	0.49	0/7037
1	W	0.26	0/5186	0.50	0/7037
1	Y	0.26	0/5186	0.49	0/7037
2	2	0.27	0/853	0.51	0/1157
2	4	0.27	0/853	0.52	0/1157
2	6	0.27	0/853	0.51	0/1157
2	B	0.27	0/853	0.55	0/1157
2	D	0.27	0/853	0.52	0/1157
2	F	0.28	0/853	0.51	0/1157
2	H	0.27	0/853	0.53	0/1157
2	J	0.27	0/853	0.54	0/1157
2	L	0.27	0/853	0.56	0/1157
2	N	0.27	0/853	0.52	0/1157
2	P	0.26	0/853	0.53	0/1157
2	R	0.26	0/853	0.51	0/1157
2	T	0.27	0/853	0.54	0/1157
2	V	0.27	0/853	0.54	0/1157
2	X	0.27	0/853	0.55	0/1157
2	Z	0.27	0/853	0.54	0/1157
All	All	0.26	0/96624	0.49	0/131104

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	5078	0	5095	265	0
1	3	5078	0	5095	233	0
1	5	5078	0	5095	240	0
1	A	5078	0	5095	245	0
1	C	5078	0	5095	257	0
1	E	5078	0	5095	242	0
1	G	5078	0	5095	253	0
1	I	5078	0	5095	265	0
1	K	5078	0	5095	237	0
1	M	5078	0	5095	257	0
1	O	5078	0	5095	251	0
1	Q	5078	0	5095	240	0
1	S	5078	0	5095	252	0
1	U	5078	0	5095	250	0
1	W	5078	0	5095	241	0
1	Y	5078	0	5095	237	0
2	2	838	0	826	50	0
2	4	838	0	826	54	0
2	6	838	0	826	68	0
2	B	838	0	826	55	0
2	D	838	0	826	63	0
2	F	838	0	826	49	0
2	H	838	0	826	51	0
2	J	838	0	826	62	0
2	L	838	0	826	50	0
2	N	838	0	826	59	0
2	P	838	0	826	58	0
2	R	838	0	826	46	0
2	T	838	0	826	63	0
2	V	838	0	826	61	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	X	838	0	826	52	0
2	Z	838	0	826	48	0
All	All	94656	0	94736	4586	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 24.

All (4586) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:456:ALA:H	1:5:630:THR:HG22	1.16	1.09
1:O:60:ASN:HB3	1:O:63:GLU:HB2	1.39	1.05
1:E:60:ASN:HB3	1:E:63:GLU:HB2	1.39	1.05
1:A:456:ALA:H	1:A:630:THR:HG22	1.21	1.05
1:O:456:ALA:H	1:O:630:THR:HG22	1.19	1.04
1:K:60:ASN:HB3	1:K:63:GLU:HB2	1.37	1.04
1:Q:456:ALA:H	1:Q:630:THR:HG22	1.20	1.02
1:Q:60:ASN:HB3	1:Q:63:GLU:HB2	1.41	1.02
1:M:60:ASN:HB3	1:M:63:GLU:HB2	1.41	1.01
2:T:40:LEU:HD21	2:T:78:ARG:HD2	1.41	1.01
1:I:456:ALA:H	1:I:630:THR:HG22	1.24	0.99
1:5:21:SER:HB3	1:5:41:THR:HB	1.44	0.99
1:U:70:ASN:HA	1:U:73:LYS:HG2	1.43	0.98
1:I:60:ASN:HB3	1:I:63:GLU:HB2	1.45	0.98
1:I:21:SER:HB3	1:I:41:THR:HB	1.44	0.98
1:W:546:PRO:HA	1:W:551:THR:HG22	1.46	0.97
1:3:522:GLU:HG2	1:3:524:ARG:HG2	1.46	0.97
1:G:456:ALA:H	1:G:630:THR:HG22	1.26	0.97
1:K:108:HIS:HB2	1:K:112:ILE:HD11	1.45	0.96
1:M:546:PRO:HA	1:M:551:THR:HG22	1.47	0.96
1:K:456:ALA:H	1:K:630:THR:HG22	1.30	0.95
1:E:456:ALA:H	1:E:630:THR:HG22	1.29	0.95
1:K:71:ARG:HH22	1:K:209:GLY:HA3	1.29	0.95
1:M:456:ALA:H	1:M:630:THR:HG22	1.28	0.95
1:1:546:PRO:HA	1:1:551:THR:HG22	1.48	0.95
1:5:409:LEU:HD21	1:5:632:THR:HG23	1.48	0.95
1:K:546:PRO:HA	1:K:551:THR:HG22	1.48	0.95
1:3:546:PRO:HA	1:3:551:THR:HG22	1.46	0.95
1:3:456:ALA:H	1:3:630:THR:HG22	1.26	0.95
1:C:456:ALA:H	1:C:630:THR:HG22	1.29	0.95
1:U:546:PRO:HA	1:U:551:THR:HG22	1.49	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:181:THR:HG22	1:Q:195:SER:HB3	1.49	0.94
1:Q:546:PRO:HA	1:Q:551:THR:HG22	1.46	0.94
1:W:70:ASN:HA	1:W:73:LYS:HE2	1.48	0.94
1:Y:546:PRO:HA	1:Y:551:THR:HG22	1.48	0.94
1:C:60:ASN:HB3	1:C:63:GLU:HB2	1.49	0.94
1:U:92:ILE:HD11	1:U:304:ALA:HB1	1.47	0.94
1:S:546:PRO:HA	1:S:551:THR:HG22	1.50	0.94
1:C:546:PRO:HA	1:C:551:THR:HG22	1.50	0.93
1:E:524:ARG:H	1:E:524:ARG:HD2	1.33	0.93
1:K:181:THR:HG22	1:K:195:SER:HB3	1.48	0.93
1:E:181:THR:HG22	1:E:195:SER:HB3	1.48	0.93
1:W:456:ALA:H	1:W:630:THR:HG22	1.32	0.93
1:C:70:ASN:HA	1:C:73:LYS:HG2	1.50	0.92
1:I:181:THR:HG22	1:I:195:SER:HB3	1.50	0.92
1:O:546:PRO:HA	1:O:551:THR:HG22	1.47	0.92
1:U:181:THR:HG22	1:U:195:SER:HB3	1.50	0.92
2:Z:128:LEU:HD12	2:Z:128:LEU:H	1.33	0.92
1:5:546:PRO:HA	1:5:551:THR:HG22	1.48	0.92
1:E:546:PRO:HA	1:E:551:THR:HG22	1.49	0.92
1:I:546:PRO:HA	1:I:551:THR:HG22	1.49	0.92
1:1:456:ALA:H	1:1:630:THR:HG22	1.32	0.92
1:C:71:ARG:HH22	1:C:209:GLY:HA3	1.32	0.92
1:K:451:THR:HA	1:K:481:SER:HB2	1.52	0.92
1:A:546:PRO:HA	1:A:551:THR:HG22	1.49	0.92
1:C:451:THR:HA	1:C:481:SER:HB2	1.51	0.92
1:G:546:PRO:HA	1:G:551:THR:HG22	1.51	0.92
1:E:24:LYS:HG3	1:E:37:THR:HG22	1.51	0.91
1:W:181:THR:HG22	1:W:195:SER:HB3	1.52	0.91
1:A:451:THR:HA	1:A:481:SER:HB2	1.52	0.91
1:I:64:ASP:HA	2:J:31:VAL:HB	1.53	0.91
1:5:181:THR:HG22	1:5:195:SER:HB3	1.54	0.90
1:K:243:VAL:H	1:K:285:THR:HG22	1.36	0.90
1:S:456:ALA:H	1:S:630:THR:HG22	1.35	0.90
1:U:29:ILE:HG22	1:U:30:GLU:H	1.34	0.90
1:Y:181:THR:HG22	1:Y:195:SER:HB3	1.53	0.90
1:1:451:THR:HA	1:1:481:SER:HB2	1.53	0.90
1:5:451:THR:HA	1:5:481:SER:HB2	1.52	0.90
1:O:181:THR:HG22	1:O:195:SER:HB3	1.53	0.90
1:Y:60:ASN:HB3	1:Y:63:GLU:HB2	1.51	0.90
1:S:181:THR:HG22	1:S:195:SER:HB3	1.53	0.90
1:G:451:THR:HA	1:G:481:SER:HB2	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:103:ASP:HB2	1:I:125:PRO:HG3	1.52	0.90
1:W:451:THR:HA	1:W:481:SER:HB2	1.53	0.90
1:I:451:THR:HA	1:I:481:SER:HB2	1.54	0.90
1:O:451:THR:HA	1:O:481:SER:HB2	1.51	0.90
1:M:181:THR:HG22	1:M:195:SER:HB3	1.51	0.90
1:U:243:VAL:H	1:U:285:THR:HG22	1.37	0.89
1:5:60:ASN:HB3	1:5:63:GLU:HB2	1.54	0.89
1:C:64:ASP:HA	2:D:31:VAL:HB	1.53	0.89
1:S:452:ALA:HA	1:S:631:THR:HG23	1.53	0.89
1:K:21:SER:HB3	1:K:41:THR:HB	1.54	0.89
1:A:181:THR:HG22	1:A:195:SER:HB3	1.54	0.88
1:3:181:THR:HG22	1:3:195:SER:HB3	1.55	0.88
1:U:60:ASN:HB3	1:U:63:GLU:HB2	1.55	0.88
1:Y:451:THR:HA	1:Y:481:SER:HB2	1.52	0.88
1:G:181:THR:HG22	1:G:195:SER:HB3	1.56	0.88
1:3:21:SER:HB3	1:3:41:THR:HB	1.55	0.88
1:C:243:VAL:H	1:C:285:THR:HG22	1.39	0.88
1:U:24:LYS:HG3	1:U:37:THR:HG22	1.56	0.88
2:J:128:LEU:HD12	2:J:128:LEU:H	1.39	0.88
1:1:181:THR:HG22	1:1:195:SER:HB3	1.56	0.88
2:R:42:LEU:H	2:R:42:LEU:HD12	1.38	0.88
1:3:451:THR:HA	1:3:481:SER:HB2	1.54	0.87
1:E:451:THR:HA	1:E:481:SER:HB2	1.56	0.87
1:Y:21:SER:HB3	1:Y:41:THR:HB	1.56	0.87
2:6:42:LEU:HA	2:6:45:ILE:HG22	1.56	0.87
1:E:243:VAL:H	1:E:285:THR:HG22	1.39	0.87
1:G:243:VAL:H	1:G:285:THR:HG22	1.39	0.87
1:U:21:SER:HB3	1:U:41:THR:HB	1.55	0.87
1:W:243:VAL:H	1:W:285:THR:HG22	1.38	0.87
1:Y:243:VAL:H	1:Y:285:THR:HG22	1.39	0.87
1:3:66:ALA:HA	2:4:128:LEU:HD13	1.57	0.87
1:K:452:ALA:HA	1:K:631:THR:HG23	1.56	0.87
1:5:243:VAL:H	1:5:285:THR:HG22	1.39	0.86
1:C:181:THR:HG22	1:C:195:SER:HB3	1.54	0.86
1:M:243:VAL:H	1:M:285:THR:HG22	1.39	0.86
1:O:409:LEU:HD21	1:O:632:THR:HG23	1.56	0.86
2:2:40:LEU:HD13	2:2:45:ILE:HD11	1.58	0.86
1:3:23:VAL:HG23	1:3:40:TRP:HE1	1.39	0.86
1:S:451:THR:HA	1:S:481:SER:HB2	1.56	0.86
1:U:451:THR:HA	1:U:481:SER:HB2	1.55	0.86
1:M:58:GLU:OE1	1:M:150:GLN:HB2	1.76	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:111:VAL:HG11	1:I:358:THR:HG21	1.58	0.86
1:1:452:ALA:HA	1:1:631:THR:HG23	1.58	0.86
1:A:70:ASN:HA	1:A:73:LYS:HG2	1.58	0.86
1:M:451:THR:HA	1:M:481:SER:HB2	1.56	0.86
2:4:51:VAL:HB	2:4:55:THR:HG21	1.58	0.85
2:6:26:TYR:HB3	2:6:27:PRO:HD2	1.58	0.85
1:S:243:VAL:H	1:S:285:THR:HG22	1.40	0.85
1:Q:243:VAL:H	1:Q:285:THR:HG22	1.38	0.85
1:Y:456:ALA:H	1:Y:630:THR:HG22	1.41	0.85
1:U:456:ALA:H	1:U:630:THR:HG22	1.40	0.85
1:A:243:VAL:H	1:A:285:THR:HG22	1.40	0.85
2:Z:45:ILE:HA	2:Z:66:SER:HB3	1.57	0.85
1:I:243:VAL:H	1:I:285:THR:HG22	1.39	0.85
1:Q:451:THR:HA	1:Q:481:SER:HB2	1.55	0.85
1:Q:70:ASN:HA	1:Q:73:LYS:HG2	1.55	0.85
1:C:409:LEU:HD21	1:C:632:THR:HG23	1.59	0.84
1:A:409:LEU:HD21	1:A:632:THR:HG23	1.59	0.84
1:1:409:LEU:HD21	1:1:632:THR:HG23	1.58	0.84
1:M:409:LEU:HD21	1:M:632:THR:HG23	1.57	0.84
1:Q:409:LEU:HD21	1:Q:632:THR:HG23	1.56	0.84
1:O:243:VAL:H	1:O:285:THR:HG22	1.39	0.84
1:3:243:VAL:H	1:3:285:THR:HG22	1.41	0.84
1:1:60:ASN:HB3	1:1:63:GLU:HB2	1.60	0.83
1:3:160:LEU:HD13	1:3:338:ALA:HB2	1.60	0.83
1:Y:111:VAL:HG22	1:Y:354:MET:HB3	1.60	0.83
1:A:550:VAL:HG12	1:A:583:ILE:HA	1.59	0.83
1:E:68:MET:SD	1:E:210:PRO:HG2	2.17	0.83
1:W:409:LEU:HD21	1:W:632:THR:HG23	1.60	0.83
1:M:393:ILE:H	1:M:393:ILE:HD12	1.43	0.83
1:W:21:SER:HA	1:W:41:THR:HB	1.61	0.83
1:1:243:VAL:H	1:1:285:THR:HG22	1.41	0.83
1:Q:21:SER:HB3	1:Q:41:THR:HB	1.61	0.83
1:3:409:LEU:HD21	1:3:632:THR:HG23	1.61	0.83
1:C:160:LEU:HD13	1:C:338:ALA:HB2	1.59	0.83
1:E:409:LEU:HD21	1:E:632:THR:HG23	1.61	0.83
1:5:393:ILE:HD12	1:5:393:ILE:H	1.44	0.82
1:I:550:VAL:HG12	1:I:583:ILE:HA	1.60	0.82
1:I:103:ASP:HB3	1:I:122:LEU:HD12	1.60	0.82
2:F:51:VAL:HB	2:F:55:THR:HG21	1.60	0.82
2:Z:51:VAL:HB	2:Z:55:THR:HG21	1.61	0.82
1:S:60:ASN:HB3	1:S:63:GLU:HB2	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:550:VAL:HG12	1:U:583:ILE:HA	1.61	0.82
1:E:160:LEU:HD13	1:E:338:ALA:HB2	1.62	0.82
1:I:409:LEU:HD21	1:I:632:THR:HG23	1.62	0.82
2:F:34:LEU:HD22	2:F:39:LEU:HA	1.60	0.82
1:M:452:ALA:HA	1:M:631:THR:HG23	1.60	0.82
1:M:550:VAL:HG12	1:M:583:ILE:HA	1.62	0.82
1:G:376:LEU:HD21	1:G:399:VAL:HG11	1.62	0.82
1:Q:160:LEU:HD13	1:Q:338:ALA:HB2	1.61	0.82
1:W:393:ILE:HD12	1:W:393:ILE:H	1.44	0.82
1:G:409:LEU:HD21	1:G:632:THR:HG23	1.60	0.81
1:M:158:VAL:HG13	1:M:340:VAL:HG22	1.63	0.81
1:S:393:ILE:H	1:S:393:ILE:HD12	1.46	0.81
1:G:160:LEU:HD13	1:G:338:ALA:HB2	1.63	0.81
1:K:393:ILE:HD12	1:K:393:ILE:H	1.45	0.81
1:C:68:MET:SD	1:C:210:PRO:HG2	2.21	0.81
1:5:160:LEU:HD13	1:5:338:ALA:HB2	1.59	0.81
1:C:316:ARG:HA	1:C:374:TYR:HE1	1.44	0.81
1:E:393:ILE:H	1:E:393:ILE:HD12	1.44	0.81
1:E:452:ALA:HA	1:E:631:THR:HG23	1.60	0.81
1:Q:393:ILE:H	1:Q:393:ILE:HD12	1.46	0.81
1:O:550:VAL:HG12	1:O:583:ILE:HA	1.63	0.81
1:Y:393:ILE:HD12	1:Y:393:ILE:H	1.45	0.81
1:5:452:ALA:HA	1:5:631:THR:HG23	1.62	0.81
1:E:320:LYS:HA	1:E:377:ARG:HD3	1.62	0.81
2:R:30:HIS:HB2	2:R:131:TYR:HB2	1.61	0.81
2:4:39:LEU:H	2:4:39:LEU:HD13	1.45	0.80
1:C:550:VAL:HG12	1:C:583:ILE:HA	1.62	0.80
1:U:376:LEU:HD21	1:U:399:VAL:HG11	1.64	0.80
1:U:92:ILE:H	1:U:92:ILE:HD12	1.46	0.80
1:1:550:VAL:HG12	1:1:583:ILE:HA	1.61	0.80
1:C:393:ILE:H	1:C:393:ILE:HD12	1.46	0.80
1:M:92:ILE:H	1:M:92:ILE:HD12	1.45	0.80
1:Y:95:VAL:HG22	1:Y:96:SER:H	1.46	0.80
1:3:60:ASN:HB3	1:3:63:GLU:HB2	1.61	0.80
2:6:51:VAL:HB	2:6:55:THR:HG21	1.62	0.80
2:F:40:LEU:HD21	2:F:78:ARG:HD2	1.63	0.80
1:G:393:ILE:H	1:G:393:ILE:HD12	1.45	0.80
1:O:114:GLY:H	1:O:117:SER:HB3	1.46	0.80
1:S:320:LYS:HA	1:S:377:ARG:HD3	1.62	0.80
1:U:452:ALA:HA	1:U:631:THR:HG23	1.63	0.80
1:3:393:ILE:HD12	1:3:393:ILE:H	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:550:VAL:HG12	1:5:583:ILE:HA	1.63	0.80
2:D:51:VAL:HB	2:D:55:THR:HG21	1.64	0.80
1:Y:550:VAL:HG12	1:Y:583:ILE:HA	1.63	0.80
2:2:51:VAL:HB	2:2:55:THR:HG21	1.62	0.80
1:A:160:LEU:HD13	1:A:338:ALA:HB2	1.63	0.80
1:C:376:LEU:HD21	1:C:399:VAL:HG11	1.64	0.80
1:Y:376:LEU:HD21	1:Y:399:VAL:HG11	1.64	0.80
1:1:160:LEU:HD13	1:1:338:ALA:HB2	1.63	0.80
1:A:452:ALA:HA	1:A:631:THR:HG23	1.64	0.80
1:K:550:VAL:HG12	1:K:583:ILE:HA	1.64	0.80
2:X:51:VAL:HB	2:X:55:THR:HG21	1.64	0.80
1:A:60:ASN:HB3	1:A:63:GLU:HB2	1.61	0.80
1:O:376:LEU:HD21	1:O:399:VAL:HG11	1.64	0.80
1:1:554:ILE:HG21	1:1:628:LEU:HD11	1.64	0.80
1:5:158:VAL:HG13	1:5:340:VAL:HG22	1.64	0.80
1:5:456:ALA:N	1:5:630:THR:HG22	1.96	0.80
1:E:376:LEU:HD21	1:E:399:VAL:HG11	1.63	0.80
2:H:51:VAL:HB	2:H:55:THR:HG21	1.64	0.80
1:I:62:THR:HG21	2:J:34:LEU:HD22	1.64	0.80
1:W:376:LEU:HD21	1:W:399:VAL:HG11	1.64	0.80
1:Y:554:ILE:HG21	1:Y:628:LEU:HD11	1.62	0.79
2:V:51:VAL:HB	2:V:55:THR:HG21	1.63	0.79
2:N:51:VAL:HB	2:N:55:THR:HG21	1.64	0.79
2:T:51:VAL:HB	2:T:55:THR:HG21	1.61	0.79
1:C:452:ALA:HA	1:C:631:THR:HG23	1.62	0.79
2:J:51:VAL:HB	2:J:55:THR:HG21	1.65	0.79
1:K:409:LEU:HD21	1:K:632:THR:HG23	1.63	0.79
1:Q:102:VAL:HG11	1:Q:351:LEU:HD13	1.64	0.79
1:S:524:ARG:HB2	1:S:524:ARG:HH11	1.48	0.79
1:K:160:LEU:HD13	1:K:338:ALA:HB2	1.64	0.79
1:S:62:THR:HG21	2:T:34:LEU:HD13	1.63	0.79
1:U:393:ILE:H	1:U:393:ILE:HD12	1.47	0.79
1:5:412:PRO:HB2	1:5:415:THR:HB	1.65	0.79
2:B:51:VAL:HB	2:B:55:THR:HG21	1.63	0.79
1:O:393:ILE:HD12	1:O:393:ILE:H	1.47	0.79
1:1:70:ASN:HA	1:1:73:LYS:HG2	1.65	0.79
1:I:23:VAL:HG23	1:I:40:TRP:HE1	1.46	0.79
1:1:376:LEU:HD21	1:1:399:VAL:HG11	1.65	0.79
1:3:550:VAL:HG12	1:3:583:ILE:HA	1.64	0.79
1:A:393:ILE:HD12	1:A:393:ILE:H	1.46	0.78
1:K:65:LEU:HB3	2:L:128:LEU:HD12	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:376:LEU:HD21	1:M:399:VAL:HG11	1.63	0.78
1:3:412:PRO:HB2	1:3:415:THR:HB	1.66	0.78
1:E:412:PRO:HB2	1:E:415:THR:HB	1.65	0.78
1:I:92:ILE:HG21	1:I:313:VAL:HG12	1.65	0.78
2:R:51:VAL:HB	2:R:55:THR:HG21	1.63	0.78
2:R:45:ILE:HA	2:R:66:SER:HB3	1.66	0.78
1:S:66:ALA:HA	2:T:128:LEU:HD13	1.65	0.78
1:K:320:LYS:HA	1:K:377:ARG:HD3	1.65	0.78
1:3:376:LEU:HD21	1:3:399:VAL:HG11	1.64	0.78
1:E:554:ILE:HG21	1:E:628:LEU:HD11	1.66	0.78
1:E:550:VAL:HG12	1:E:583:ILE:HA	1.63	0.78
1:I:376:LEU:HD21	1:I:399:VAL:HG11	1.65	0.78
1:I:393:ILE:H	1:I:393:ILE:HD12	1.47	0.78
1:5:376:LEU:HD21	1:5:399:VAL:HG11	1.64	0.78
1:M:320:LYS:HA	1:M:377:ARG:HD3	1.65	0.78
1:U:554:ILE:HG21	1:U:628:LEU:HD11	1.65	0.78
1:G:550:VAL:HG12	1:G:583:ILE:HA	1.64	0.78
2:L:31:VAL:HG13	2:L:79:CYS:HB3	1.64	0.78
1:O:412:PRO:HB2	1:O:415:THR:HB	1.66	0.78
1:U:160:LEU:HD13	1:U:338:ALA:HB2	1.64	0.78
1:Y:160:LEU:HD13	1:Y:338:ALA:HB2	1.64	0.78
1:I:452:ALA:HA	1:I:631:THR:HG23	1.64	0.78
1:K:554:ILE:HG21	1:K:628:LEU:HD11	1.65	0.78
1:O:68:MET:SD	1:O:210:PRO:HG2	2.24	0.78
1:Q:376:LEU:HD21	1:Q:399:VAL:HG11	1.62	0.78
1:Q:550:VAL:HG12	1:Q:583:ILE:HA	1.64	0.78
1:S:92:ILE:HD11	1:S:304:ALA:HB1	1.66	0.78
1:S:160:LEU:HD13	1:S:338:ALA:HB2	1.65	0.78
1:K:376:LEU:HD21	1:K:399:VAL:HG11	1.66	0.78
1:O:71:ARG:HH22	1:O:209:GLY:HA3	1.49	0.78
1:U:320:LYS:HA	1:U:377:ARG:HD3	1.66	0.78
1:W:158:VAL:HG13	1:W:340:VAL:HG22	1.66	0.78
1:O:452:ALA:HA	1:O:631:THR:HG23	1.64	0.78
1:Q:412:PRO:HB2	1:Q:415:THR:HB	1.66	0.78
1:1:393:ILE:HD12	1:1:393:ILE:H	1.46	0.77
1:3:554:ILE:HG21	1:3:628:LEU:HD11	1.65	0.77
1:3:452:ALA:HA	1:3:631:THR:HG23	1.66	0.77
2:F:26:TYR:HB3	2:F:27:PRO:HD2	1.66	0.77
1:I:412:PRO:HB2	1:I:415:THR:HB	1.66	0.77
1:S:550:VAL:HG12	1:S:583:ILE:HA	1.66	0.77
1:G:452:ALA:HA	1:G:631:THR:HG23	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:409:LEU:HD21	1:S:632:THR:HG23	1.66	0.77
1:W:550:VAL:HG12	1:W:583:ILE:HA	1.64	0.77
1:Q:70:ASN:O	1:Q:74:LEU:HG	1.84	0.77
1:S:376:LEU:HD21	1:S:399:VAL:HG11	1.65	0.77
2:N:26:TYR:CG	2:N:27:PRO:HD2	2.19	0.77
2:P:51:VAL:HB	2:P:55:THR:HG21	1.64	0.77
2:V:34:LEU:HD21	2:V:40:LEU:HD23	1.65	0.77
1:K:412:PRO:HB2	1:K:415:THR:HB	1.64	0.77
1:O:415:THR:HG23	1:O:418:ARG:H	1.50	0.77
1:Y:102:VAL:HG11	1:Y:351:LEU:HD13	1.66	0.77
1:1:66:ALA:HA	2:2:128:LEU:HD13	1.66	0.77
1:I:160:LEU:HD13	1:I:338:ALA:HB2	1.65	0.77
2:L:51:VAL:HB	2:L:55:THR:HG21	1.64	0.77
1:Y:415:THR:HG23	1:Y:418:ARG:H	1.50	0.77
1:C:68:MET:HE1	2:D:83:LEU:HD12	1.67	0.77
1:G:412:PRO:HB2	1:G:415:THR:HB	1.66	0.77
1:O:320:LYS:HA	1:O:377:ARG:HD3	1.67	0.77
1:W:160:LEU:HD13	1:W:338:ALA:HB2	1.64	0.77
1:1:412:PRO:HB2	1:1:415:THR:HB	1.67	0.77
1:C:316:ARG:HA	1:C:374:TYR:CE1	2.20	0.77
1:G:554:ILE:HG21	1:G:628:LEU:HD11	1.66	0.77
1:S:415:THR:HG23	1:S:418:ARG:H	1.50	0.77
1:Y:69:LEU:HD12	1:Y:69:LEU:H	1.48	0.77
1:1:84:ILE:HG12	1:1:86:LEU:HG	1.65	0.77
1:A:415:THR:HG23	1:A:418:ARG:H	1.50	0.77
1:C:320:LYS:HA	1:C:377:ARG:HD3	1.67	0.77
1:O:21:SER:HB3	1:O:41:THR:HB	1.66	0.77
1:W:412:PRO:HB2	1:W:415:THR:HB	1.65	0.77
1:Y:412:PRO:HB2	1:Y:415:THR:HB	1.66	0.77
1:A:376:LEU:HD21	1:A:399:VAL:HG11	1.66	0.77
1:A:554:ILE:HG21	1:A:628:LEU:HD11	1.66	0.77
1:W:554:ILE:HG21	1:W:628:LEU:HD11	1.67	0.77
1:A:320:LYS:HA	1:A:377:ARG:HD3	1.67	0.76
1:C:412:PRO:HB2	1:C:415:THR:HB	1.66	0.76
1:E:70:ASN:HA	1:E:73:LYS:HG2	1.68	0.76
1:Q:97:GLU:HG3	1:Q:98:GLY:H	1.49	0.76
1:I:415:THR:HG23	1:I:418:ARG:H	1.50	0.76
1:O:160:LEU:HD13	1:O:338:ALA:HB2	1.67	0.76
1:Y:409:LEU:HD21	1:Y:632:THR:HG23	1.66	0.76
2:B:26:TYR:HB3	2:B:27:PRO:HD2	1.68	0.76
1:K:415:THR:HG23	1:K:418:ARG:H	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:412:PRO:HB2	1:A:415:THR:HB	1.66	0.76
1:G:92:ILE:HD11	1:G:304:ALA:HB1	1.67	0.76
1:C:21:SER:HB3	1:C:41:THR:HB	1.67	0.76
1:O:23:VAL:HG12	1:O:40:TRP:HE1	1.51	0.76
1:G:415:THR:HG23	1:G:418:ARG:H	1.50	0.76
1:A:82:LEU:O	1:A:219:ALA:HA	1.84	0.76
1:1:100:MET:HG3	1:1:101:GLN:H	1.50	0.76
1:5:554:ILE:HG21	1:5:628:LEU:HD11	1.66	0.76
1:M:415:THR:HG23	1:M:418:ARG:H	1.51	0.76
1:M:554:ILE:HG21	1:M:628:LEU:HD11	1.66	0.76
1:3:415:THR:HG23	1:3:418:ARG:H	1.51	0.75
1:W:415:THR:HG23	1:W:418:ARG:H	1.49	0.75
1:1:21:SER:HA	1:1:41:THR:HB	1.68	0.75
1:Q:415:THR:HG23	1:Q:418:ARG:H	1.50	0.75
1:S:71:ARG:HH21	1:S:209:GLY:HA3	1.50	0.75
1:Q:89:PRO:HD3	1:Q:255:THR:HA	1.68	0.75
1:Q:433:ARG:HD2	1:Q:524:ARG:HH11	1.51	0.75
1:S:412:PRO:HB2	1:S:415:THR:HB	1.67	0.75
1:Y:320:LYS:HA	1:Y:377:ARG:HD3	1.68	0.75
1:1:174:THR:HG23	1:1:176:LYS:H	1.50	0.75
1:A:158:VAL:HG13	1:A:340:VAL:HG22	1.68	0.75
1:G:320:LYS:HA	1:G:377:ARG:HD3	1.67	0.75
2:6:39:LEU:HD13	2:6:39:LEU:H	1.50	0.75
1:C:554:ILE:HG21	1:C:628:LEU:HD11	1.68	0.75
1:O:174:THR:HG23	1:O:176:LYS:H	1.51	0.75
1:U:158:VAL:HG13	1:U:340:VAL:HG22	1.68	0.75
1:I:554:ILE:HG21	1:I:628:LEU:HD11	1.68	0.75
1:M:160:LEU:HD13	1:M:338:ALA:HB2	1.66	0.75
1:U:409:LEU:HD21	1:U:632:THR:HG23	1.69	0.75
1:W:100:MET:HG2	1:W:112:ILE:HG22	1.69	0.75
2:4:40:LEU:HB3	2:4:45:ILE:HG23	1.69	0.75
2:X:34:LEU:HB3	2:X:37:GLN:HG2	1.68	0.75
1:W:452:ALA:HA	1:W:631:THR:HG23	1.69	0.74
1:Y:452:ALA:HA	1:Y:631:THR:HG23	1.69	0.74
1:G:92:ILE:HG21	1:G:313:VAL:HG12	1.69	0.74
1:Q:174:THR:HG23	1:Q:176:LYS:H	1.51	0.74
2:Z:40:LEU:HB3	2:Z:45:ILE:HD11	1.67	0.74
1:M:412:PRO:HB2	1:M:415:THR:HB	1.67	0.74
1:Y:158:VAL:HG13	1:Y:340:VAL:HG22	1.67	0.74
1:M:70:ASN:O	1:M:74:LEU:HB2	1.87	0.74
1:U:412:PRO:HB2	1:U:415:THR:HB	1.66	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:415:THR:HG23	1:1:418:ARG:H	1.51	0.74
1:K:174:THR:HG23	1:K:176:LYS:H	1.53	0.74
1:S:554:ILE:HG21	1:S:628:LEU:HD11	1.68	0.74
1:5:415:THR:HG23	1:5:418:ARG:H	1.52	0.74
2:F:31:VAL:HG13	2:F:79:CYS:HB3	1.68	0.74
1:M:174:THR:HG23	1:M:176:LYS:H	1.51	0.74
1:Y:68:MET:SD	1:Y:210:PRO:HG2	2.28	0.74
1:E:415:THR:HG23	1:E:418:ARG:H	1.51	0.74
1:U:353:ALA:HB1	1:U:386:ALA:HB3	1.68	0.74
1:U:415:THR:HG23	1:U:418:ARG:H	1.51	0.74
1:A:174:THR:HG23	1:A:176:LYS:H	1.52	0.73
1:3:158:VAL:HG13	1:3:340:VAL:HG22	1.69	0.73
1:C:415:THR:HG23	1:C:418:ARG:H	1.51	0.73
1:G:174:THR:HG23	1:G:176:LYS:H	1.52	0.73
1:W:65:LEU:HD22	2:X:31:VAL:HG23	1.70	0.73
1:C:174:THR:HG23	1:C:176:LYS:H	1.51	0.73
1:O:353:ALA:HB1	1:O:386:ALA:HB3	1.70	0.73
1:U:99:SER:N	1:U:118:PRO:HB3	2.02	0.73
1:Q:68:MET:SD	1:Q:210:PRO:HG2	2.28	0.73
1:O:554:ILE:HG21	1:O:628:LEU:HD11	1.70	0.73
1:Q:554:ILE:HG21	1:Q:628:LEU:HD11	1.69	0.73
1:1:21:SER:CA	1:1:41:THR:HB	2.19	0.73
1:G:158:VAL:HG13	1:G:340:VAL:HG22	1.70	0.73
2:J:60:SER:HB3	2:J:83:LEU:HG	1.71	0.73
1:1:62:THR:HB	2:2:33:GLN:HA	1.70	0.73
2:Z:55:THR:HG23	2:Z:56:CYS:H	1.53	0.73
1:G:58:GLU:OE1	1:G:150:GLN:HB2	1.89	0.73
1:S:174:THR:HG23	1:S:176:LYS:H	1.54	0.73
2:4:31:VAL:HG13	2:4:79:CYS:HB3	1.70	0.73
2:6:60:SER:HB3	2:6:83:LEU:HG	1.70	0.73
1:S:158:VAL:HG13	1:S:340:VAL:HG22	1.69	0.73
1:Y:174:THR:HG23	1:Y:176:LYS:H	1.53	0.73
1:O:158:VAL:HG13	1:O:340:VAL:HG22	1.70	0.72
1:5:66:ALA:HA	2:6:128:LEU:HD13	1.70	0.72
1:C:158:VAL:HG13	1:C:340:VAL:HG22	1.70	0.72
1:E:158:VAL:HG13	1:E:340:VAL:HG22	1.70	0.72
1:Q:353:ALA:HB1	1:Q:386:ALA:HB3	1.71	0.72
1:K:71:ARG:NH2	1:K:209:GLY:HA3	2.03	0.72
1:K:158:VAL:HG13	1:K:340:VAL:HG22	1.70	0.72
2:T:34:LEU:HD23	2:T:39:LEU:HA	1.70	0.72
2:T:60:SER:HB3	2:T:83:LEU:HG	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:432:LEU:HG	1:C:443:LEU:HD11	1.71	0.72
1:3:174:THR:HG23	1:3:176:LYS:H	1.55	0.72
2:4:55:THR:HG23	2:4:56:CYS:H	1.54	0.72
1:O:57:ARG:NH1	2:P:39:LEU:HG	2.05	0.72
1:1:524:ARG:HA	1:1:527:TRP:CD1	2.24	0.72
1:3:62:THR:HG21	2:4:34:LEU:HD13	1.71	0.72
1:E:108:HIS:O	1:E:112:ILE:HD11	1.89	0.72
2:F:60:SER:HB3	2:F:83:LEU:HG	1.71	0.72
1:I:158:VAL:HG13	1:I:340:VAL:HG22	1.72	0.72
2:T:55:THR:HG23	2:T:56:CYS:H	1.55	0.72
1:C:464:ARG:HD3	1:C:501:LEU:HD21	1.72	0.72
2:L:60:SER:HB3	2:L:83:LEU:HG	1.71	0.72
1:5:353:ALA:HB1	1:5:386:ALA:HB3	1.71	0.72
1:E:181:THR:HG22	1:E:195:SER:CB	2.19	0.72
1:U:70:ASN:HB3	1:U:73:LYS:HE2	1.72	0.72
1:1:114:GLY:H	1:1:117:SER:HB3	1.55	0.72
1:5:320:LYS:HA	1:5:377:ARG:HD3	1.72	0.72
1:Q:452:ALA:HA	1:Q:631:THR:HG23	1.70	0.72
2:X:55:THR:HG23	2:X:56:CYS:H	1.55	0.72
1:1:353:ALA:HB1	1:1:386:ALA:HB3	1.71	0.71
1:3:129:GLN:OE1	1:3:345:SER:HB3	1.90	0.71
1:M:21:SER:HA	1:M:41:THR:HB	1.70	0.71
1:M:353:ALA:HB1	1:M:386:ALA:HB3	1.70	0.71
1:O:456:ALA:N	1:O:630:THR:HG22	2.00	0.71
2:R:60:SER:HB3	2:R:83:LEU:HG	1.71	0.71
1:Q:71:ARG:HH22	1:Q:209:GLY:HA3	1.53	0.71
2:F:45:ILE:HA	2:F:66:SER:HB3	1.72	0.71
2:H:55:THR:HG23	2:H:56:CYS:H	1.55	0.71
2:H:60:SER:HB3	2:H:83:LEU:HG	1.71	0.71
1:I:432:LEU:HG	1:I:443:LEU:HD11	1.72	0.71
1:5:464:ARG:HD3	1:5:501:LEU:HD21	1.72	0.71
2:B:60:SER:HB3	2:B:83:LEU:HG	1.73	0.71
1:I:353:ALA:HB1	1:I:386:ALA:HB3	1.73	0.71
2:B:45:ILE:HA	2:B:66:SER:HB3	1.72	0.71
2:R:34:LEU:HD11	2:R:39:LEU:HD23	1.72	0.71
1:S:102:VAL:HG11	1:S:351:LEU:HD13	1.72	0.71
2:X:26:TYR:HB3	2:X:27:PRO:HD2	1.71	0.71
2:4:60:SER:HB3	2:4:83:LEU:HG	1.71	0.71
1:K:21:SER:CB	1:K:41:THR:HB	2.18	0.71
1:A:21:SER:HA	1:A:41:THR:HB	1.71	0.71
1:Y:464:ARG:HD3	1:Y:501:LEU:HD21	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:464:ARG:HD3	1:O:501:LEU:HD21	1.73	0.71
2:R:55:THR:HG23	2:R:56:CYS:H	1.56	0.71
1:U:174:THR:HG23	1:U:176:LYS:H	1.54	0.71
2:6:55:THR:HG23	2:6:56:CYS:H	1.56	0.71
1:G:102:VAL:HG11	1:G:351:LEU:HD13	1.72	0.71
1:I:53:GLU:OE2	2:J:41:ALA:HB1	1.90	0.71
2:J:55:THR:HG23	2:J:56:CYS:H	1.56	0.71
1:O:29:ILE:HG22	1:O:30:GLU:H	1.56	0.71
1:U:464:ARG:HD3	1:U:501:LEU:HD21	1.73	0.71
1:W:464:ARG:HD3	1:W:501:LEU:HD21	1.72	0.71
2:B:40:LEU:HD23	2:B:40:LEU:H	1.54	0.71
1:I:174:THR:HG23	1:I:176:LYS:H	1.54	0.71
1:S:353:ALA:HB1	1:S:386:ALA:HB3	1.73	0.71
1:W:63:GLU:OE2	1:W:68:MET:HA	1.89	0.71
1:A:71:ARG:NH2	1:A:209:GLY:HA3	2.06	0.70
1:I:464:ARG:HD3	1:I:501:LEU:HD21	1.72	0.70
1:I:56:TRP:CZ2	1:I:61:VAL:HG11	2.25	0.70
1:I:68:MET:SD	1:I:210:PRO:HG2	2.30	0.70
1:G:432:LEU:HG	1:G:443:LEU:HD11	1.74	0.70
1:O:538:LEU:H	1:O:538:LEU:HD23	1.57	0.70
1:Q:103:ASP:HB2	1:Q:122:LEU:HD12	1.73	0.70
2:V:37:GLN:HG2	2:V:38:HIS:H	1.55	0.70
1:A:353:ALA:HB1	1:A:386:ALA:HB3	1.72	0.70
1:Q:158:VAL:HG13	1:Q:340:VAL:HG22	1.73	0.70
1:Q:464:ARG:HD3	1:Q:501:LEU:HD21	1.72	0.70
1:1:158:VAL:HG13	1:1:340:VAL:HG22	1.74	0.70
1:I:65:LEU:HB3	2:J:128:LEU:HD23	1.72	0.70
1:K:181:THR:HG22	1:K:195:SER:CB	2.21	0.70
2:V:55:THR:HG23	2:V:56:CYS:H	1.55	0.70
1:W:174:THR:HG23	1:W:176:LYS:H	1.57	0.70
1:1:316:ARG:HA	1:1:374:TYR:HE1	1.56	0.70
1:3:464:ARG:HD3	1:3:501:LEU:HD21	1.73	0.70
1:E:464:ARG:HD3	1:E:501:LEU:HD21	1.73	0.70
1:G:86:LEU:HD11	1:G:251:SER:HA	1.71	0.70
2:P:55:THR:HG23	2:P:56:CYS:H	1.55	0.70
1:Q:92:ILE:HD13	1:Q:313:VAL:HG12	1.74	0.70
2:V:34:LEU:HD12	2:V:37:GLN:HB3	1.74	0.70
1:5:174:THR:HG23	1:5:176:LYS:H	1.56	0.70
2:N:60:SER:HB3	2:N:83:LEU:HG	1.72	0.70
1:W:65:LEU:HD22	1:W:65:LEU:H	1.56	0.70
1:W:95:VAL:HG22	1:W:96:SER:H	1.54	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:60:SER:HB3	2:2:83:LEU:HG	1.72	0.70
1:3:320:LYS:HA	1:3:377:ARG:HD3	1.74	0.70
2:P:40:LEU:HD13	2:P:45:ILE:HD11	1.74	0.70
2:P:60:SER:HB3	2:P:83:LEU:HG	1.72	0.70
1:1:320:LYS:HA	1:1:377:ARG:HD3	1.73	0.70
2:6:56:CYS:HB3	2:6:131:TYR:OH	1.91	0.70
2:X:60:SER:HB3	2:X:83:LEU:HG	1.74	0.70
1:1:464:ARG:HD3	1:1:501:LEU:HD21	1.74	0.70
1:A:432:LEU:HG	1:A:443:LEU:HD11	1.73	0.70
1:I:70:ASN:HA	1:I:73:LYS:HE2	1.74	0.70
1:M:464:ARG:HD3	1:M:501:LEU:HD21	1.72	0.70
1:A:573:LEU:H	1:A:573:LEU:HD12	1.56	0.70
2:L:55:THR:HG23	2:L:56:CYS:H	1.56	0.70
1:A:57:ARG:HH12	2:B:39:LEU:HD22	1.56	0.69
1:E:23:VAL:HG23	1:E:40:TRP:HE1	1.55	0.69
1:K:353:ALA:HB1	1:K:386:ALA:HB3	1.72	0.69
1:M:27:LEU:HD23	2:N:50:LEU:HD12	1.74	0.69
1:Q:181:THR:HG22	1:Q:195:SER:CB	2.22	0.69
1:A:538:LEU:H	1:A:538:LEU:HD23	1.57	0.69
1:W:353:ALA:HB1	1:W:386:ALA:HB3	1.73	0.69
1:Y:432:LEU:HG	1:Y:443:LEU:HD11	1.74	0.69
1:A:107:VAL:HG21	1:A:350:ARG:HD3	1.74	0.69
2:D:60:SER:HB3	2:D:83:LEU:HG	1.75	0.69
2:N:55:THR:HG23	2:N:56:CYS:H	1.57	0.69
2:R:101:THR:HG22	2:R:102:GLY:H	1.58	0.69
1:C:538:LEU:HD23	1:C:538:LEU:H	1.56	0.69
2:V:60:SER:HB3	2:V:83:LEU:HG	1.72	0.69
1:G:538:LEU:H	1:G:538:LEU:HD23	1.58	0.69
1:G:62:THR:HG21	2:H:34:LEU:HD11	1.75	0.69
1:3:353:ALA:HB1	1:3:386:ALA:HB3	1.74	0.69
1:K:68:MET:SD	1:K:210:PRO:HG2	2.32	0.69
1:5:101:GLN:HG2	1:5:120:CYS:SG	2.33	0.69
1:E:538:LEU:H	1:E:538:LEU:HD23	1.57	0.69
1:1:432:LEU:HG	1:1:443:LEU:HD11	1.75	0.69
1:3:538:LEU:HD23	1:3:538:LEU:H	1.57	0.69
1:5:31:GLY:H	2:6:24:TRP:HZ3	1.41	0.69
2:B:55:THR:HG23	2:B:56:CYS:H	1.57	0.69
1:W:538:LEU:H	1:W:538:LEU:HD23	1.57	0.69
2:2:55:THR:HG23	2:2:56:CYS:H	1.55	0.69
1:A:459:ILE:HD12	1:A:486:LEU:HD23	1.75	0.69
1:G:464:ARG:HD3	1:G:501:LEU:HD21	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:40:LEU:HD23	2:J:40:LEU:H	1.56	0.69
1:S:464:ARG:HD3	1:S:501:LEU:HD21	1.75	0.69
1:G:66:ALA:HA	2:H:128:LEU:HD13	1.75	0.69
1:M:538:LEU:H	1:M:538:LEU:HD23	1.58	0.69
1:W:24:LYS:HB3	1:W:37:THR:HG22	1.75	0.69
2:F:55:THR:HG23	2:F:56:CYS:H	1.58	0.69
1:I:181:THR:HG22	1:I:195:SER:CB	2.22	0.69
1:Y:56:TRP:CE2	1:Y:61:VAL:HG21	2.28	0.69
2:2:101:THR:HG22	2:2:102:GLY:H	1.58	0.68
1:C:82:LEU:HD12	1:C:84:ILE:HD11	1.75	0.68
2:L:35:ARG:HD3	2:L:35:ARG:H	1.58	0.68
1:Q:29:ILE:HG22	1:Q:30:GLU:H	1.56	0.68
1:S:21:SER:HB3	1:S:41:THR:HB	1.72	0.68
1:5:432:LEU:HG	1:5:443:LEU:HD11	1.74	0.68
1:E:432:LEU:HG	1:E:443:LEU:HD11	1.75	0.68
1:G:113:SER:HB2	1:G:117:SER:OG	1.92	0.68
2:Z:60:SER:HB3	2:Z:83:LEU:HG	1.74	0.68
1:1:64:ASP:HB3	2:2:32:THR:HA	1.74	0.68
1:G:115:LEU:HD13	1:G:359:VAL:HG21	1.76	0.68
2:H:101:THR:HG22	2:H:102:GLY:H	1.58	0.68
1:M:432:LEU:HG	1:M:443:LEU:HD11	1.76	0.68
1:1:58:GLU:OE1	1:1:150:GLN:HB2	1.92	0.68
1:C:58:GLU:OE1	1:C:150:GLN:HB2	1.93	0.68
1:E:353:ALA:HB1	1:E:386:ALA:HB3	1.74	0.68
1:G:78:THR:HG22	1:G:215:SER:C	2.13	0.68
1:Q:432:LEU:HG	1:Q:443:LEU:HD11	1.74	0.68
1:Y:343:MET:HE2	1:Y:343:MET:HA	1.74	0.68
2:4:26:TYR:HB3	2:4:27:PRO:HD2	1.75	0.68
2:D:39:LEU:HD13	2:D:39:LEU:H	1.57	0.68
1:I:538:LEU:HD23	1:I:538:LEU:H	1.58	0.68
1:K:538:LEU:H	1:K:538:LEU:HD23	1.58	0.68
1:K:61:VAL:HG12	2:L:85:VAL:HG22	1.75	0.68
1:Y:101:GLN:HB3	1:Y:122:LEU:HD21	1.76	0.68
1:3:432:LEU:HG	1:3:443:LEU:HD11	1.74	0.68
2:J:45:ILE:HA	2:J:66:SER:HB3	1.74	0.68
2:T:101:THR:HG22	2:T:102:GLY:H	1.58	0.68
1:W:89:PRO:HD3	1:W:255:THR:HA	1.73	0.68
1:Y:353:ALA:HB1	1:Y:386:ALA:HB3	1.74	0.68
1:1:524:ARG:HA	1:1:527:TRP:HD1	1.58	0.68
1:G:353:ALA:HB1	1:G:386:ALA:HB3	1.73	0.68
1:Q:538:LEU:H	1:Q:538:LEU:HD23	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:538:LEU:HD23	1:1:538:LEU:H	1.58	0.68
2:6:101:THR:HG22	2:6:102:GLY:H	1.59	0.68
1:E:174:THR:HG23	1:E:176:LYS:H	1.57	0.68
1:I:328:LEU:HG	1:I:332:ILE:HD11	1.75	0.68
1:I:447:GLN:OE1	1:I:529:LEU:HD21	1.94	0.68
2:L:34:LEU:HD11	2:L:78:ARG:NH1	2.08	0.68
1:O:66:ALA:HB2	2:P:128:LEU:HD23	1.76	0.68
1:S:432:LEU:HG	1:S:443:LEU:HD11	1.74	0.68
1:U:181:THR:HG22	1:U:195:SER:CB	2.23	0.68
1:5:328:LEU:HG	1:5:332:ILE:HD11	1.76	0.68
1:G:71:ARG:HH22	1:G:209:GLY:HA3	1.57	0.68
2:H:40:LEU:HD13	2:H:78:ARG:HD2	1.76	0.68
1:O:432:LEU:HG	1:O:443:LEU:HD11	1.76	0.68
1:K:87:ALA:O	1:K:255:THR:HG22	1.94	0.68
1:Y:112:ILE:H	1:Y:112:ILE:HD13	1.58	0.68
2:L:101:THR:HG22	2:L:102:GLY:H	1.60	0.67
1:3:328:LEU:HG	1:3:332:ILE:HD11	1.76	0.67
1:3:394:GLY:HA2	1:3:442:ASN:HD21	1.58	0.67
1:5:538:LEU:H	1:5:538:LEU:HD23	1.60	0.67
1:C:115:LEU:HD13	1:C:359:VAL:HG21	1.76	0.67
2:N:101:THR:HG22	2:N:102:GLY:H	1.58	0.67
1:3:68:MET:SD	1:3:210:PRO:HG2	2.34	0.67
2:R:26:TYR:HB3	2:R:27:PRO:HD2	1.76	0.67
1:U:38:ILE:HD11	2:V:107:LEU:HD21	1.75	0.67
1:W:181:THR:HG22	1:W:195:SER:CB	2.24	0.67
1:G:92:ILE:HD12	1:G:92:ILE:H	1.59	0.67
1:Q:38:ILE:HD11	2:R:107:LEU:HD21	1.76	0.67
1:W:432:LEU:HG	1:W:443:LEU:HD11	1.77	0.67
1:K:464:ARG:HD3	1:K:501:LEU:HD21	1.75	0.67
1:O:459:ILE:HD12	1:O:486:LEU:HD23	1.77	0.67
1:U:573:LEU:HD12	1:U:573:LEU:H	1.60	0.67
2:X:31:VAL:HG13	2:X:79:CYS:HB3	1.77	0.67
1:5:23:VAL:HG23	1:5:40:TRP:HE1	1.60	0.67
1:M:181:THR:HG22	1:M:195:SER:CB	2.24	0.67
1:I:114:GLY:H	1:I:117:SER:HB2	1.60	0.67
1:O:71:ARG:NH2	1:O:209:GLY:HA3	2.10	0.67
1:O:573:LEU:H	1:O:573:LEU:HD12	1.59	0.67
1:O:60:ASN:ND2	2:P:33:GLN:HE21	1.93	0.67
1:Q:456:ALA:N	1:Q:630:THR:HG22	2.03	0.67
1:U:138:LEU:HD13	1:U:148:PHE:HB3	1.77	0.67
1:W:69:LEU:HD11	2:X:128:LEU:HD21	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:353:ALA:HB1	1:C:386:ALA:HB3	1.77	0.67
1:C:111:VAL:HG11	1:C:358:THR:HG21	1.77	0.67
2:F:101:THR:HG22	2:F:102:GLY:H	1.60	0.67
1:S:538:LEU:H	1:S:538:LEU:HD23	1.57	0.67
1:W:328:LEU:HG	1:W:332:ILE:HD11	1.77	0.67
1:E:138:LEU:HD13	1:E:148:PHE:HB3	1.78	0.66
1:S:68:MET:HE3	1:S:210:PRO:HG2	1.77	0.66
2:X:101:THR:HG22	2:X:102:GLY:H	1.59	0.66
1:1:143:PRO:HG3	1:1:193:VAL:HG21	1.77	0.66
2:B:101:THR:HG22	2:B:102:GLY:H	1.59	0.66
2:6:41:ALA:HB3	2:6:43:GLU:HG2	1.76	0.66
1:C:181:THR:HG22	1:C:195:SER:CB	2.25	0.66
1:G:79:SER:HB2	1:U:73:LYS:HZ3	1.60	0.66
2:V:101:THR:HG22	2:V:102:GLY:H	1.59	0.66
1:A:464:ARG:HD3	1:A:501:LEU:HD21	1.75	0.66
1:E:573:LEU:H	1:E:573:LEU:HD12	1.60	0.66
1:I:60:ASN:ND2	2:J:33:GLN:HE21	1.93	0.66
1:K:328:LEU:HG	1:K:332:ILE:HD11	1.77	0.66
1:O:23:VAL:CG1	1:O:40:TRP:HE1	2.07	0.66
2:P:93:LEU:HB2	2:P:108:LEU:HD13	1.76	0.66
1:U:328:LEU:HG	1:U:332:ILE:HD11	1.77	0.66
1:Y:573:LEU:HD12	1:Y:573:LEU:H	1.60	0.66
1:1:328:LEU:HG	1:1:332:ILE:HD11	1.77	0.66
1:1:573:LEU:HD12	1:1:573:LEU:H	1.59	0.66
1:5:70:ASN:HA	1:5:73:LYS:HE2	1.77	0.66
1:Q:394:GLY:HA2	1:Q:442:ASN:HD21	1.60	0.66
1:S:181:THR:HG22	1:S:195:SER:CB	2.25	0.66
1:Y:181:THR:HG22	1:Y:195:SER:CB	2.25	0.66
1:1:38:ILE:HD11	2:2:107:LEU:HD21	1.78	0.66
1:C:37:THR:O	1:C:39:PRO:HD3	1.96	0.66
2:P:101:THR:HG22	2:P:102:GLY:H	1.59	0.66
2:L:93:LEU:HB2	2:L:108:LEU:HD13	1.77	0.66
1:S:328:LEU:HG	1:S:332:ILE:HD11	1.78	0.66
1:S:573:LEU:HD12	1:S:573:LEU:H	1.61	0.66
1:U:432:LEU:HG	1:U:443:LEU:HD11	1.76	0.66
1:W:37:THR:O	1:W:39:PRO:HD3	1.94	0.66
1:Y:538:LEU:HD23	1:Y:538:LEU:H	1.59	0.66
2:D:101:THR:HG22	2:D:102:GLY:H	1.61	0.66
1:G:316:ARG:HA	1:G:374:TYR:HE1	1.60	0.66
2:Z:128:LEU:HD11	1:1:80:GLY:HA2	1.77	0.66
1:5:573:LEU:HD12	1:5:573:LEU:H	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:23:VAL:CG2	1:E:40:TRP:HE1	2.08	0.66
1:5:64:ASP:HB3	2:6:32:THR:HA	1.76	0.66
1:E:38:ILE:HD11	2:F:107:LEU:HD21	1.77	0.66
2:L:29:CYS:SG	2:L:30:HIS:N	2.69	0.66
1:S:78:THR:O	1:S:80:GLY:N	2.29	0.66
1:3:27:LEU:HB3	1:3:34:SER:HB2	1.78	0.65
1:5:181:THR:HG22	1:5:195:SER:CB	2.25	0.65
2:D:55:THR:HG23	2:D:56:CYS:H	1.61	0.65
1:E:64:ASP:HB3	2:F:32:THR:HA	1.78	0.65
2:J:40:LEU:HD12	2:J:45:ILE:HG12	1.76	0.65
1:K:432:LEU:HG	1:K:443:LEU:HD11	1.76	0.65
1:W:48:PRO:HG2	1:W:49:GLY:H	1.62	0.65
2:4:101:THR:HG22	2:4:102:GLY:H	1.60	0.65
1:G:181:THR:HG22	1:G:195:SER:CB	2.26	0.65
1:I:37:THR:O	1:I:39:PRO:HD3	1.96	0.65
1:I:651:PHE:CD1	1:I:671:ALA:HA	2.31	0.65
1:K:62:THR:HG21	2:L:34:LEU:HD22	1.78	0.65
1:U:538:LEU:H	1:U:538:LEU:HD23	1.60	0.65
1:W:573:LEU:HD12	1:W:573:LEU:H	1.61	0.65
1:3:573:LEU:HD12	1:3:573:LEU:H	1.60	0.65
1:5:143:PRO:HG3	1:5:193:VAL:HG21	1.78	0.65
1:C:138:LEU:HD13	1:C:148:PHE:HB3	1.77	0.65
1:C:459:ILE:HD11	1:C:491:LEU:HD23	1.78	0.65
1:G:459:ILE:HD12	1:G:486:LEU:HD23	1.79	0.65
1:G:573:LEU:HD12	1:G:573:LEU:H	1.61	0.65
1:Q:24:LYS:HB2	1:Q:37:THR:HG22	1.78	0.65
2:Z:101:THR:HG22	2:Z:102:GLY:H	1.60	0.65
1:5:62:THR:HB	2:6:33:GLN:HA	1.79	0.65
1:G:70:ASN:HA	1:G:73:LYS:HE2	1.79	0.65
2:J:101:THR:HG22	2:J:102:GLY:H	1.62	0.65
1:K:573:LEU:HD12	1:K:573:LEU:H	1.61	0.65
1:M:573:LEU:H	1:M:573:LEU:HD12	1.61	0.65
1:M:68:MET:SD	1:M:210:PRO:HG2	2.35	0.65
1:O:38:ILE:HD11	2:P:107:LEU:HD21	1.79	0.65
1:Q:573:LEU:HD12	1:Q:573:LEU:H	1.61	0.65
1:1:78:THR:HG22	1:1:215:SER:C	2.16	0.65
1:1:448:LEU:HD22	1:1:546:PRO:O	1.96	0.65
1:5:138:LEU:HD13	1:5:148:PHE:HB3	1.79	0.65
1:C:573:LEU:H	1:C:573:LEU:HD12	1.61	0.65
1:K:243:VAL:H	1:K:285:THR:CG2	2.10	0.65
1:S:143:PRO:HG3	1:S:193:VAL:HG21	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:99:SER:HB2	1:5:119:ALA:HA	1.79	0.65
1:A:38:ILE:HD11	2:B:107:LEU:HD21	1.78	0.65
2:B:34:LEU:HD23	2:B:34:LEU:H	1.61	0.65
1:E:328:LEU:HG	1:E:332:ILE:HD11	1.77	0.65
1:G:328:LEU:HG	1:G:332:ILE:HD11	1.76	0.65
1:Q:328:LEU:HG	1:Q:332:ILE:HD11	1.77	0.65
1:S:138:LEU:HD13	1:S:148:PHE:HB3	1.78	0.65
1:S:58:GLU:OE1	1:S:150:GLN:HB2	1.95	0.65
1:A:143:PRO:HG3	1:A:193:VAL:HG21	1.78	0.65
1:A:328:LEU:HG	1:A:332:ILE:HD11	1.77	0.65
1:K:143:PRO:HG3	1:K:193:VAL:HG21	1.77	0.65
1:O:328:LEU:HG	1:O:332:ILE:HD11	1.79	0.65
1:U:100:MET:SD	1:U:112:ILE:HB	2.36	0.65
2:V:42:LEU:H	2:V:42:LEU:HD12	1.61	0.65
1:W:459:ILE:HD11	1:W:491:LEU:HD23	1.78	0.65
1:5:394:GLY:HA2	1:5:442:ASN:HD21	1.61	0.65
1:5:38:ILE:HD11	2:6:107:LEU:HD21	1.78	0.65
1:K:459:ILE:HD12	1:K:486:LEU:HD23	1.78	0.65
1:K:38:ILE:HD11	2:L:107:LEU:HD21	1.79	0.65
1:O:68:MET:CE	1:O:210:PRO:HG2	2.27	0.65
1:W:38:ILE:HD11	2:X:107:LEU:HD21	1.79	0.65
2:4:93:LEU:HB2	2:4:108:LEU:HD13	1.78	0.65
1:C:328:LEU:HG	1:C:332:ILE:HD11	1.79	0.65
1:G:37:THR:O	1:G:39:PRO:HD3	1.97	0.65
1:K:138:LEU:HD13	1:K:148:PHE:HB3	1.78	0.65
1:U:498:GLU:HB2	1:U:501:LEU:HD13	1.79	0.65
1:W:104:ALA:HB3	1:W:125:PRO:HB2	1.78	0.65
1:1:459:ILE:HD11	1:1:491:LEU:HD23	1.79	0.65
1:K:71:ARG:HH22	1:K:209:GLY:CA	2.04	0.65
1:C:70:ASN:O	1:C:74:LEU:HB2	1.96	0.64
1:E:498:GLU:HB2	1:E:501:LEU:HD13	1.79	0.64
2:J:40:LEU:N	2:J:40:LEU:HD23	2.11	0.64
1:M:37:THR:O	1:M:39:PRO:HD3	1.97	0.64
1:O:138:LEU:HD13	1:O:148:PHE:HB3	1.79	0.64
1:O:181:THR:HG22	1:O:195:SER:CB	2.25	0.64
1:O:394:GLY:HA2	1:O:442:ASN:HD21	1.62	0.64
1:W:138:LEU:HD13	1:W:148:PHE:HB3	1.78	0.64
1:W:394:GLY:HA2	1:W:442:ASN:HD21	1.62	0.64
1:Y:394:GLY:HA2	1:Y:442:ASN:HD21	1.62	0.64
1:1:138:LEU:HD13	1:1:148:PHE:HB3	1.78	0.64
1:G:138:LEU:HD13	1:G:148:PHE:HB3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:60:ASN:HB3	1:G:63:GLU:HB2	1.78	0.64
1:M:138:LEU:HD13	1:M:148:PHE:HB3	1.77	0.64
2:X:30:HIS:HB2	2:X:131:TYR:HB2	1.79	0.64
1:1:459:ILE:HD12	1:1:486:LEU:HD23	1.78	0.64
1:1:48:PRO:HG2	1:1:49:GLY:H	1.63	0.64
1:5:37:THR:O	1:5:39:PRO:HD3	1.98	0.64
1:A:70:ASN:O	1:A:74:LEU:HD23	1.98	0.64
2:B:93:LEU:HB2	2:B:108:LEU:HD13	1.79	0.64
1:C:394:GLY:HA2	1:C:442:ASN:HD21	1.62	0.64
1:C:48:PRO:HG2	1:C:49:GLY:H	1.62	0.64
1:G:38:ILE:HD11	2:H:107:LEU:HD21	1.79	0.64
2:H:93:LEU:HB2	2:H:108:LEU:HD13	1.79	0.64
1:K:48:PRO:HG2	1:K:49:GLY:H	1.62	0.64
1:M:48:PRO:HG2	1:M:49:GLY:H	1.61	0.64
1:O:37:THR:O	1:O:39:PRO:HD3	1.97	0.64
1:U:452:ALA:HA	1:U:631:THR:CG2	2.28	0.64
1:5:24:LYS:HG3	1:5:37:THR:HG22	1.79	0.64
1:I:38:ILE:HD11	2:J:107:LEU:HD21	1.79	0.64
1:M:524:ARG:HA	1:M:527:TRP:NE1	2.12	0.64
1:S:71:ARG:NH2	1:S:209:GLY:HA3	2.12	0.64
2:J:128:LEU:HD11	1:S:80:GLY:HA3	1.80	0.64
1:U:394:GLY:HA2	1:U:442:ASN:HD21	1.63	0.64
1:1:56:TRP:CZ2	1:1:61:VAL:HG11	2.33	0.64
1:3:38:ILE:HD11	2:4:107:LEU:HD21	1.80	0.64
1:C:459:ILE:HD12	1:C:486:LEU:HD23	1.80	0.64
1:E:20:LEU:HB2	2:F:43:GLU:HG2	1.79	0.64
1:M:356:MET:O	1:M:359:VAL:HG12	1.98	0.64
2:R:34:LEU:HD21	2:R:39:LEU:HB3	1.78	0.64
1:1:181:THR:HG22	1:1:195:SER:CB	2.27	0.64
1:5:459:ILE:HD11	1:5:491:LEU:HD23	1.79	0.64
1:C:143:PRO:HG3	1:C:193:VAL:HG21	1.78	0.64
1:C:268:LYS:HD3	1:C:290:THR:HG22	1.78	0.64
1:E:37:THR:O	1:E:39:PRO:HD3	1.97	0.64
1:M:329:LYS:NZ	1:M:344:GLN:HE21	1.96	0.64
1:Q:138:LEU:HD13	1:Q:148:PHE:HB3	1.78	0.64
1:W:212:SER:C	1:W:214:PRO:HD2	2.18	0.64
1:Y:84:ILE:HG22	1:Y:86:LEU:HG	1.80	0.64
1:1:37:THR:O	1:1:39:PRO:HD3	1.97	0.64
1:A:138:LEU:HD13	1:A:148:PHE:HB3	1.79	0.64
1:I:48:PRO:HG2	1:I:49:GLY:H	1.62	0.64
1:M:456:ALA:N	1:M:630:THR:HG22	2.08	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:651:PHE:CD1	1:E:671:ALA:HA	2.33	0.64
1:I:138:LEU:HD13	1:I:148:PHE:HB3	1.79	0.64
1:I:69:LEU:O	1:I:73:LYS:HG2	1.98	0.64
1:M:524:ARG:HA	1:M:527:TRP:HE1	1.61	0.64
1:O:48:PRO:HG2	1:O:49:GLY:H	1.62	0.64
1:S:292:PHE:O	1:S:296:VAL:HG23	1.97	0.64
1:S:356:MET:O	1:S:359:VAL:HG12	1.97	0.64
1:U:112:ILE:H	1:U:112:ILE:HD12	1.62	0.64
1:U:48:PRO:HG2	1:U:49:GLY:H	1.62	0.64
1:3:181:THR:HG22	1:3:195:SER:CB	2.26	0.64
1:5:115:LEU:HD22	1:5:359:VAL:HG23	1.77	0.64
1:E:48:PRO:HG2	1:E:49:GLY:H	1.62	0.64
2:H:128:LEU:CD1	1:U:80:GLY:HA3	2.28	0.64
1:K:498:GLU:HB2	1:K:501:LEU:HD13	1.80	0.64
1:M:143:PRO:HG3	1:M:193:VAL:HG21	1.80	0.64
1:S:92:ILE:H	1:S:92:ILE:HD12	1.62	0.64
1:Y:27:LEU:HG	1:Y:28:ASP:H	1.62	0.64
1:1:268:LYS:HD3	1:1:290:THR:HG22	1.79	0.64
1:G:48:PRO:HG2	1:G:49:GLY:H	1.63	0.64
1:M:328:LEU:HG	1:M:332:ILE:HD11	1.78	0.64
1:Q:69:LEU:H	1:Q:69:LEU:HD12	1.62	0.64
1:U:102:VAL:HG22	1:U:112:ILE:HD13	1.80	0.64
1:U:109:PRO:HA	1:U:354:MET:SD	2.38	0.64
1:Y:48:PRO:HG2	1:Y:49:GLY:H	1.63	0.64
1:5:48:PRO:HG2	1:5:49:GLY:H	1.63	0.63
1:I:320:LYS:HA	1:I:377:ARG:HD3	1.80	0.63
1:O:383:TYR:HB3	1:O:384:PRO:HD3	1.80	0.63
1:S:37:THR:O	1:S:39:PRO:HD3	1.97	0.63
1:U:212:SER:C	1:U:214:PRO:HD2	2.18	0.63
2:4:51:VAL:HB	2:4:55:THR:CG2	2.28	0.63
1:A:394:GLY:HA2	1:A:442:ASN:HD21	1.64	0.63
1:G:212:SER:C	1:G:214:PRO:HD2	2.19	0.63
1:K:37:THR:O	1:K:39:PRO:HD3	1.98	0.63
1:M:394:GLY:HA2	1:M:442:ASN:HD21	1.63	0.63
1:3:138:LEU:HD13	1:3:148:PHE:HB3	1.80	0.63
1:K:452:ALA:HA	1:K:631:THR:CG2	2.28	0.63
1:U:353:ALA:CB	1:U:386:ALA:HB3	2.28	0.63
1:Y:328:LEU:HG	1:Y:332:ILE:HD11	1.79	0.63
1:Y:70:ASN:HA	1:Y:73:LYS:HE2	1.80	0.63
1:5:115:LEU:HD13	1:5:359:VAL:HB	1.79	0.63
1:5:459:ILE:HD12	1:5:486:LEU:HD23	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:332:ILE:HG22	1:A:338:ALA:HB3	1.80	0.63
1:A:24:LYS:HB2	1:A:37:THR:HG22	1.80	0.63
1:I:573:LEU:H	1:I:573:LEU:HD12	1.63	0.63
2:J:93:LEU:HB2	2:J:108:LEU:HD13	1.79	0.63
1:K:292:PHE:O	1:K:296:VAL:HG23	1.98	0.63
1:O:353:ALA:CB	1:O:386:ALA:HB3	2.28	0.63
2:R:93:LEU:HB2	2:R:108:LEU:HD13	1.81	0.63
1:S:212:SER:C	1:S:214:PRO:HD2	2.19	0.63
1:U:27:LEU:HD21	2:V:114:LEU:HD22	1.81	0.63
2:V:45:ILE:HA	2:V:66:SER:HB3	1.81	0.63
1:W:143:PRO:HG3	1:W:193:VAL:HG21	1.80	0.63
2:X:93:LEU:HB2	2:X:108:LEU:HD13	1.80	0.63
1:3:37:THR:O	1:3:39:PRO:HD3	1.99	0.63
1:5:356:MET:O	1:5:359:VAL:HG12	1.99	0.63
1:E:143:PRO:HG3	1:E:193:VAL:HG21	1.79	0.63
1:I:292:PHE:O	1:I:296:VAL:HG23	1.98	0.63
1:O:21:SER:HA	1:O:40:TRP:CH2	2.34	0.63
1:O:498:GLU:HB2	1:O:501:LEU:HD13	1.80	0.63
1:U:459:ILE:HD12	1:U:486:LEU:HD23	1.80	0.63
1:W:92:ILE:HG21	1:W:313:VAL:HG12	1.80	0.63
1:Y:138:LEU:HD13	1:Y:148:PHE:HB3	1.81	0.63
1:3:31:GLY:HA2	2:4:24:TRP:NE1	2.14	0.63
1:C:38:ILE:HD11	2:D:107:LEU:HD21	1.79	0.63
1:E:356:MET:O	1:E:359:VAL:HG12	1.99	0.63
1:E:394:GLY:HA2	1:E:442:ASN:HD21	1.64	0.63
1:K:332:ILE:HG22	1:K:338:ALA:HB3	1.81	0.63
2:L:45:ILE:HA	2:L:66:SER:HB3	1.81	0.63
1:S:38:ILE:HD11	2:T:107:LEU:HD21	1.80	0.63
1:Y:498:GLU:HB2	1:Y:501:LEU:HD13	1.81	0.63
2:2:93:LEU:HB2	2:2:108:LEU:HD13	1.79	0.63
1:5:493:SER:HB3	1:5:626:GLU:HG2	1.80	0.63
1:A:552:PHE:CE2	1:A:661:LEU:HB3	2.34	0.63
1:C:114:GLY:H	1:C:117:SER:CB	2.10	0.63
1:G:143:PRO:HG3	1:G:193:VAL:HG21	1.78	0.63
1:M:86:LEU:HD13	1:M:251:SER:HA	1.81	0.63
1:M:498:GLU:HB2	1:M:501:LEU:HD13	1.81	0.63
1:M:70:ASN:HA	1:M:73:LYS:HG2	1.81	0.63
1:C:332:ILE:HG22	1:C:338:ALA:HB3	1.81	0.63
1:I:394:GLY:HA2	1:I:442:ASN:HD21	1.64	0.63
1:I:56:TRP:CH2	1:I:61:VAL:HG11	2.34	0.63
1:Y:487:THR:H	1:Y:490:LYS:HB3	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:459:ILE:HD11	1:Y:491:LEU:HD23	1.81	0.63
1:1:172:ALA:O	1:1:178:LEU:HD12	1.99	0.63
1:A:48:PRO:HG2	1:A:49:GLY:H	1.63	0.63
2:D:93:LEU:HB2	2:D:108:LEU:HD13	1.79	0.63
1:K:356:MET:O	1:K:359:VAL:HG12	1.99	0.63
1:Q:383:TYR:HB3	1:Q:384:PRO:HD3	1.81	0.63
1:Q:48:PRO:HG2	1:Q:49:GLY:H	1.63	0.63
1:S:383:TYR:HB3	1:S:384:PRO:HD3	1.81	0.63
1:S:487:THR:H	1:S:490:LYS:HB3	1.64	0.63
1:S:56:TRP:CZ2	1:S:61:VAL:HG11	2.34	0.63
1:1:394:GLY:HA2	1:1:442:ASN:HD21	1.63	0.62
1:E:95:VAL:HG23	1:E:99:SER:HB2	1.81	0.62
1:K:213:TYR:N	1:K:214:PRO:HD2	2.14	0.62
1:K:394:GLY:HA2	1:K:442:ASN:HD21	1.64	0.62
1:M:57:ARG:HD3	2:N:39:LEU:HG	1.81	0.62
1:S:268:LYS:HD3	1:S:290:THR:HG22	1.80	0.62
1:W:526:ALA:HB1	1:W:529:LEU:HD12	1.80	0.62
1:Y:459:ILE:HD12	1:Y:486:LEU:HD23	1.80	0.62
1:A:181:THR:HG22	1:A:195:SER:CB	2.27	0.62
1:A:68:MET:SD	1:A:210:PRO:HG2	2.40	0.62
1:K:212:SER:C	1:K:214:PRO:HD2	2.19	0.62
1:K:383:TYR:HB3	1:K:384:PRO:HD3	1.81	0.62
1:M:213:TYR:N	1:M:214:PRO:HD2	2.15	0.62
1:S:213:TYR:N	1:S:214:PRO:HD2	2.14	0.62
1:S:394:GLY:HA2	1:S:442:ASN:HD21	1.64	0.62
1:U:143:PRO:HG3	1:U:193:VAL:HG21	1.81	0.62
1:W:243:VAL:H	1:W:285:THR:CG2	2.12	0.62
1:W:356:MET:O	1:W:359:VAL:HG12	1.99	0.62
1:W:459:ILE:HD12	1:W:486:LEU:HD23	1.79	0.62
1:1:383:TYR:HB3	1:1:384:PRO:HD3	1.81	0.62
1:3:48:PRO:HG2	1:3:49:GLY:H	1.62	0.62
1:A:356:MET:O	1:A:359:VAL:HG12	2.00	0.62
1:M:459:ILE:HD12	1:M:486:LEU:HD23	1.80	0.62
2:N:93:LEU:HB2	2:N:108:LEU:HD13	1.80	0.62
1:Q:212:SER:C	1:Q:214:PRO:HD2	2.20	0.62
2:T:51:VAL:HB	2:T:55:THR:CG2	2.29	0.62
1:U:37:THR:O	1:U:39:PRO:HD3	1.98	0.62
1:Y:38:ILE:HD11	2:Z:107:LEU:HD21	1.79	0.62
1:3:356:MET:O	1:3:359:VAL:HG12	1.99	0.62
1:A:268:LYS:HD3	1:A:290:THR:HG22	1.80	0.62
1:C:356:MET:O	1:C:359:VAL:HG12	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:459:ILE:HD12	1:I:486:LEU:HD23	1.80	0.62
2:L:26:TYR:CE2	2:L:49:TYR:HB3	2.35	0.62
1:M:78:THR:HG22	1:M:215:SER:C	2.20	0.62
1:O:292:PHE:O	1:O:296:VAL:HG23	2.00	0.62
1:Q:213:TYR:N	1:Q:214:PRO:HD2	2.15	0.62
1:Q:37:THR:O	1:Q:39:PRO:HD3	2.00	0.62
1:G:79:SER:HB2	1:U:73:LYS:NZ	2.13	0.62
1:W:213:TYR:N	1:W:214:PRO:HD2	2.14	0.62
1:W:86:LEU:HD11	1:W:251:SER:HA	1.81	0.62
1:3:498:GLU:HB2	1:3:501:LEU:HD13	1.81	0.62
1:5:212:SER:C	1:5:214:PRO:HD2	2.20	0.62
1:C:213:TYR:N	1:C:214:PRO:HD2	2.15	0.62
1:I:332:ILE:HG22	1:I:338:ALA:HB3	1.80	0.62
1:S:524:ARG:HA	1:S:527:TRP:NE1	2.15	0.62
1:U:243:VAL:H	1:U:285:THR:CG2	2.11	0.62
1:W:498:GLU:HB2	1:W:501:LEU:HD13	1.81	0.62
1:W:62:THR:O	1:W:64:ASP:N	2.33	0.62
1:1:212:SER:C	1:1:214:PRO:HD2	2.20	0.62
1:3:292:PHE:O	1:3:296:VAL:HG23	1.99	0.62
1:5:292:PHE:O	1:5:296:VAL:HG23	1.99	0.62
1:E:213:TYR:N	1:E:214:PRO:HD2	2.15	0.62
2:F:93:LEU:HB2	2:F:108:LEU:HD13	1.80	0.62
2:J:30:HIS:HB2	2:J:131:TYR:O	2.00	0.62
1:M:38:ILE:HD11	2:N:107:LEU:HD21	1.80	0.62
1:O:332:ILE:HG22	1:O:338:ALA:HB3	1.81	0.62
1:O:493:SER:HB3	1:O:626:GLU:HG2	1.82	0.62
2:R:107:LEU:O	2:R:111:LEU:HB2	2.00	0.62
2:T:93:LEU:HB2	2:T:108:LEU:HD13	1.81	0.62
1:5:213:TYR:N	1:5:214:PRO:HD2	2.15	0.62
1:G:433:ARG:HD2	1:G:524:ARG:NH2	2.14	0.62
2:H:45:ILE:HG21	2:H:64:LEU:HD22	1.80	0.62
1:M:27:LEU:CD2	2:N:50:LEU:HD12	2.30	0.62
1:M:424:GLY:O	1:M:427:VAL:HG12	2.00	0.62
1:O:116:ASN:ND2	1:O:116:ASN:H	1.97	0.62
2:R:97:SER:HA	2:R:100:LEU:HD11	1.81	0.62
1:U:332:ILE:HG22	1:U:338:ALA:HB3	1.81	0.62
1:C:71:ARG:HH22	1:C:209:GLY:CA	2.09	0.62
1:E:292:PHE:O	1:E:296:VAL:HG23	2.00	0.62
1:G:394:GLY:HA2	1:G:442:ASN:HD21	1.64	0.62
1:K:84:ILE:HG22	1:K:86:LEU:HG	1.82	0.62
1:O:213:TYR:N	1:O:214:PRO:HD2	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:48:PRO:HG2	1:S:49:GLY:H	1.63	0.62
1:S:524:ARG:HA	1:S:527:TRP:CD1	2.35	0.62
1:S:456:ALA:N	1:S:630:THR:HG22	2.13	0.62
1:W:268:LYS:HD3	1:W:290:THR:HG22	1.81	0.62
1:1:213:TYR:N	1:1:214:PRO:HD2	2.15	0.62
1:1:353:ALA:CB	1:1:386:ALA:HB3	2.30	0.62
1:C:292:PHE:O	1:C:296:VAL:HG23	2.00	0.62
2:J:107:LEU:O	2:J:111:LEU:HB2	2.00	0.62
2:L:97:SER:HA	2:L:100:LEU:HD11	1.81	0.62
1:M:383:TYR:HB3	1:M:384:PRO:HD3	1.82	0.62
1:O:552:PHE:CE2	1:O:661:LEU:HB3	2.35	0.62
1:Q:353:ALA:CB	1:Q:386:ALA:HB3	2.30	0.62
1:Q:356:MET:O	1:Q:359:VAL:HG12	2.00	0.62
1:Q:320:LYS:HA	1:Q:377:ARG:HD3	1.82	0.62
1:U:356:MET:O	1:U:359:VAL:HG12	2.00	0.62
1:U:61:VAL:HG13	2:V:85:VAL:HG22	1.82	0.62
1:Y:332:ILE:HG22	1:Y:338:ALA:HB3	1.82	0.62
1:5:498:GLU:HB2	1:5:501:LEU:HD13	1.82	0.62
1:5:92:ILE:HG12	1:5:313:VAL:HG12	1.82	0.62
1:C:61:VAL:HG12	2:D:80:ALA:HB1	1.81	0.62
1:E:212:SER:C	1:E:214:PRO:HD2	2.20	0.62
1:I:498:GLU:HB2	1:I:501:LEU:HD13	1.81	0.62
1:M:212:SER:C	1:M:214:PRO:HD2	2.20	0.62
2:P:97:SER:HA	2:P:100:LEU:HD11	1.80	0.62
1:U:383:TYR:HB3	1:U:384:PRO:HD3	1.81	0.62
2:2:51:VAL:HB	2:2:55:THR:CG2	2.30	0.61
1:3:383:TYR:HB3	1:3:384:PRO:HD3	1.82	0.61
1:5:268:LYS:HD3	1:5:290:THR:HG22	1.81	0.61
2:6:51:VAL:HB	2:6:55:THR:CG2	2.29	0.61
1:A:498:GLU:HB2	1:A:501:LEU:HD13	1.81	0.61
1:E:268:LYS:HD3	1:E:290:THR:HG22	1.82	0.61
1:E:383:TYR:HB3	1:E:384:PRO:HD3	1.82	0.61
1:E:459:ILE:HD12	1:E:486:LEU:HD23	1.82	0.61
1:I:212:SER:C	1:I:214:PRO:HD2	2.20	0.61
1:I:383:TYR:HB3	1:I:384:PRO:HD3	1.82	0.61
1:I:459:ILE:HD11	1:I:491:LEU:HD23	1.82	0.61
1:Q:143:PRO:HG3	1:Q:193:VAL:HG21	1.82	0.61
1:Q:292:PHE:O	1:Q:296:VAL:HG23	2.00	0.61
1:U:424:GLY:O	1:U:427:VAL:HG12	2.00	0.61
2:V:93:LEU:HB2	2:V:108:LEU:HD13	1.82	0.61
1:W:218:SER:OG	1:W:246:LEU:HD13	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:143:PRO:HG3	1:Y:193:VAL:HG21	1.82	0.61
1:Y:212:SER:C	1:Y:214:PRO:HD2	2.20	0.61
1:Y:213:TYR:N	1:Y:214:PRO:HD2	2.15	0.61
1:1:424:GLY:O	1:1:427:VAL:HG12	2.00	0.61
1:1:498:GLU:HB2	1:1:501:LEU:HD13	1.82	0.61
1:3:82:LEU:HD12	1:3:84:ILE:HD11	1.81	0.61
2:6:26:TYR:CD2	2:6:49:TYR:HB3	2.35	0.61
2:6:40:LEU:HG	2:6:78:ARG:HD2	1.83	0.61
1:A:212:SER:C	1:A:214:PRO:HD2	2.20	0.61
1:A:213:TYR:N	1:A:214:PRO:HD2	2.15	0.61
1:A:383:TYR:HB3	1:A:384:PRO:HD3	1.81	0.61
1:C:212:SER:C	1:C:214:PRO:HD2	2.21	0.61
1:C:361:MET:HE2	1:C:392:LEU:HA	1.81	0.61
1:G:213:TYR:N	1:G:214:PRO:HD2	2.15	0.61
1:G:383:TYR:HB3	1:G:384:PRO:HD3	1.81	0.61
1:S:452:ALA:HA	1:S:631:THR:CG2	2.28	0.61
2:Z:93:LEU:HB2	2:Z:108:LEU:HD13	1.81	0.61
1:A:37:THR:O	1:A:39:PRO:HD3	2.00	0.61
1:G:332:ILE:HG22	1:G:338:ALA:HB3	1.81	0.61
2:H:107:LEU:O	2:H:111:LEU:HB2	2.00	0.61
1:I:143:PRO:HG3	1:I:193:VAL:HG21	1.82	0.61
1:Q:99:SER:HB2	1:Q:119:ALA:HA	1.81	0.61
1:Y:383:TYR:HB3	1:Y:384:PRO:HD3	1.81	0.61
2:Z:97:SER:HA	2:Z:100:LEU:HD11	1.82	0.61
1:3:213:TYR:N	1:3:214:PRO:HD2	2.15	0.61
1:5:487:THR:H	1:5:490:LYS:HB3	1.65	0.61
2:F:107:LEU:O	2:F:111:LEU:HB2	2.00	0.61
2:F:51:VAL:HB	2:F:55:THR:CG2	2.29	0.61
1:I:104:ALA:O	1:I:107:VAL:HG23	1.99	0.61
1:K:353:ALA:CB	1:K:386:ALA:HB3	2.30	0.61
1:O:218:SER:OG	1:O:246:LEU:HD13	2.00	0.61
1:O:270:VAL:HG13	1:O:516:ARG:HD2	1.80	0.61
1:S:424:GLY:O	1:S:427:VAL:HG12	2.00	0.61
1:W:20:LEU:HA	1:W:40:TRP:CH2	2.35	0.61
1:W:383:TYR:HB3	1:W:384:PRO:HD3	1.81	0.61
1:1:92:ILE:HD13	1:1:313:VAL:HG12	1.81	0.61
1:3:459:ILE:HD11	1:3:491:LEU:HD23	1.81	0.61
2:D:51:VAL:HB	2:D:55:THR:CG2	2.31	0.61
1:G:356:MET:O	1:G:359:VAL:HG12	2.00	0.61
1:I:213:TYR:N	1:I:214:PRO:HD2	2.15	0.61
1:O:62:THR:HB	2:P:34:LEU:H	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:32:THR:HB	2:P:35:ARG:HG2	1.81	0.61
1:Q:459:ILE:HD12	1:Q:486:LEU:HD23	1.82	0.61
1:U:213:TYR:N	1:U:214:PRO:HD2	2.15	0.61
1:U:448:LEU:HD22	1:U:546:PRO:O	2.01	0.61
1:W:292:PHE:O	1:W:296:VAL:HG23	2.00	0.61
1:3:143:PRO:HG3	1:3:193:VAL:HG21	1.81	0.61
1:I:552:PHE:CE2	1:I:661:LEU:HB3	2.36	0.61
1:M:286:GLU:O	1:M:290:THR:HG23	2.01	0.61
1:O:143:PRO:HG3	1:O:193:VAL:HG21	1.82	0.61
1:O:212:SER:C	1:O:214:PRO:HD2	2.21	0.61
1:Y:292:PHE:O	1:Y:296:VAL:HG23	2.00	0.61
1:3:212:SER:C	1:3:214:PRO:HD2	2.21	0.61
1:A:487:THR:H	1:A:490:LYS:HB3	1.65	0.61
1:C:102:VAL:HG11	1:C:351:LEU:HD13	1.83	0.61
1:G:86:LEU:HD13	1:G:254:VAL:HB	1.82	0.61
1:G:21:SER:HA	1:G:41:THR:HB	1.83	0.61
1:K:487:THR:H	1:K:490:LYS:HB3	1.66	0.61
2:Z:51:VAL:HB	2:Z:55:THR:CG2	2.29	0.61
1:5:218:SER:OG	1:5:246:LEU:HD13	2.01	0.61
1:5:353:ALA:CB	1:5:386:ALA:HB3	2.30	0.61
1:E:332:ILE:HG22	1:E:338:ALA:HB3	1.81	0.61
1:M:243:VAL:H	1:M:285:THR:CG2	2.13	0.61
1:M:69:LEU:HD22	1:M:69:LEU:N	2.15	0.61
1:Q:487:THR:H	1:Q:490:LYS:HB3	1.65	0.61
1:S:459:ILE:HD12	1:S:486:LEU:HD23	1.80	0.61
1:U:117:SER:HB2	1:U:118:PRO:CD	2.31	0.61
1:U:487:THR:H	1:U:490:LYS:HB3	1.66	0.61
1:3:332:ILE:HG22	1:3:338:ALA:HB3	1.82	0.61
1:3:487:THR:H	1:3:490:LYS:HB3	1.65	0.61
1:A:526:ALA:HB1	1:A:529:LEU:HD12	1.81	0.61
1:M:56:TRP:CZ2	1:M:61:VAL:HG11	2.36	0.61
1:S:53:GLU:OE2	2:T:41:ALA:HB1	2.01	0.61
1:U:268:LYS:HD3	1:U:290:THR:HG22	1.83	0.61
2:V:97:SER:HA	2:V:100:LEU:HD11	1.83	0.61
2:X:107:LEU:O	2:X:111:LEU:HB2	2.00	0.61
1:W:64:ASP:HB3	2:X:32:THR:HA	1.81	0.61
1:Y:218:SER:OG	1:Y:246:LEU:HD13	2.01	0.61
1:Y:37:THR:O	1:Y:39:PRO:HD3	2.00	0.61
1:1:21:SER:CB	1:1:41:THR:HB	2.31	0.61
2:D:52:SER:H	2:D:55:THR:CG2	2.13	0.61
1:K:424:GLY:O	1:K:427:VAL:HG12	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:51:VAL:HB	2:P:55:THR:CG2	2.31	0.61
1:Q:218:SER:OG	1:Q:246:LEU:HD13	2.00	0.61
1:Q:332:ILE:HG22	1:Q:338:ALA:HB3	1.82	0.61
2:T:39:LEU:HD22	2:T:39:LEU:O	2.00	0.61
1:U:459:ILE:HD11	1:U:491:LEU:HD23	1.82	0.61
2:H:128:LEU:HD11	1:U:80:GLY:HA3	1.82	0.61
2:Z:29:CYS:SG	2:Z:30:HIS:N	2.74	0.61
1:1:452:ALA:HA	1:1:631:THR:CG2	2.30	0.60
2:2:97:SER:HA	2:2:100:LEU:HD11	1.83	0.60
1:E:459:ILE:HD11	1:E:491:LEU:HD23	1.82	0.60
1:E:566:TYR:HB2	1:E:579:LEU:HB2	1.83	0.60
1:I:172:ALA:O	1:I:178:LEU:HD12	2.01	0.60
1:W:487:THR:H	1:W:490:LYS:HB3	1.65	0.60
1:5:23:VAL:HA	2:6:46:SER:HA	1.83	0.60
1:E:424:GLY:O	1:E:427:VAL:HG12	2.01	0.60
1:G:498:GLU:HB2	1:G:501:LEU:HD13	1.82	0.60
2:N:51:VAL:HB	2:N:55:THR:CG2	2.30	0.60
1:O:268:LYS:HD3	1:O:290:THR:HG22	1.84	0.60
1:Q:498:GLU:HB2	1:Q:501:LEU:HD13	1.83	0.60
1:1:316:ARG:HA	1:1:374:TYR:CE1	2.35	0.60
1:3:68:MET:HE1	1:3:69:LEU:HD12	1.83	0.60
1:A:353:ALA:CB	1:A:386:ALA:HB3	2.31	0.60
1:I:268:LYS:HD3	1:I:290:THR:HG22	1.83	0.60
1:M:353:ALA:CB	1:M:386:ALA:HB3	2.30	0.60
1:M:409:LEU:HD21	1:M:632:THR:CG2	2.30	0.60
2:T:26:TYR:CD1	2:T:27:PRO:HD2	2.36	0.60
1:U:29:ILE:HG22	1:U:30:GLU:N	2.12	0.60
1:W:99:SER:HA	1:W:118:PRO:O	2.01	0.60
1:1:356:MET:O	1:1:359:VAL:HG12	2.01	0.60
1:5:383:TYR:HB3	1:5:384:PRO:HD3	1.82	0.60
2:6:93:LEU:HB2	2:6:108:LEU:HD13	1.82	0.60
2:B:107:LEU:O	2:B:111:LEU:HB2	2.00	0.60
1:K:459:ILE:HD11	1:K:491:LEU:HD23	1.81	0.60
1:K:552:PHE:CE2	1:K:661:LEU:HB3	2.37	0.60
1:Q:243:VAL:H	1:Q:285:THR:CG2	2.11	0.60
1:U:552:PHE:CE2	1:U:661:LEU:HB3	2.37	0.60
1:W:353:ALA:CB	1:W:386:ALA:HB3	2.31	0.60
1:3:92:ILE:HD13	1:3:313:VAL:HG12	1.84	0.60
1:A:459:ILE:HD11	1:A:491:LEU:HD23	1.82	0.60
1:A:456:ALA:N	1:A:630:THR:HG22	2.04	0.60
1:C:218:SER:OG	1:C:246:LEU:HD13	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:23:VAL:HG12	1:C:40:TRP:HE1	1.66	0.60
1:C:63:GLU:HA	2:D:33:GLN:HG3	1.81	0.60
1:E:614:PHE:HB2	1:E:634:ILE:HD12	1.82	0.60
1:G:316:ARG:HA	1:G:374:TYR:CE1	2.35	0.60
1:I:103:ASP:CB	1:I:122:LEU:HD12	2.31	0.60
1:I:353:ALA:CB	1:I:386:ALA:HB3	2.31	0.60
2:N:97:SER:HA	2:N:100:LEU:HD11	1.84	0.60
1:O:92:ILE:HD13	1:O:313:VAL:HG12	1.83	0.60
1:O:95:VAL:HG23	1:O:99:SER:HB2	1.83	0.60
1:3:424:GLY:O	1:3:427:VAL:HG12	2.02	0.60
1:3:566:TYR:HB2	1:3:579:LEU:HB2	1.84	0.60
1:3:60:ASN:HB3	1:3:63:GLU:CB	2.31	0.60
1:A:292:PHE:O	1:A:296:VAL:HG23	2.02	0.60
1:C:383:TYR:HB3	1:C:384:PRO:HD3	1.82	0.60
1:K:268:LYS:HD3	1:K:290:THR:HG22	1.83	0.60
1:K:56:TRP:CZ2	1:K:61:VAL:HG11	2.35	0.60
1:K:69:LEU:O	1:K:73:LYS:HG2	2.01	0.60
1:M:487:THR:H	1:M:490:LYS:HB3	1.66	0.60
1:Q:268:LYS:HD3	1:Q:290:THR:HG22	1.84	0.60
1:S:353:ALA:CB	1:S:386:ALA:HB3	2.31	0.60
1:S:498:GLU:HB2	1:S:501:LEU:HD13	1.82	0.60
1:3:459:ILE:HD12	1:3:486:LEU:HD23	1.82	0.60
1:5:566:TYR:HB2	1:5:579:LEU:HB2	1.84	0.60
1:C:71:ARG:NH2	1:C:209:GLY:HA3	2.11	0.60
1:C:487:THR:H	1:C:490:LYS:HB3	1.66	0.60
1:E:448:LEU:HD22	1:E:546:PRO:O	2.01	0.60
1:G:218:SER:OG	1:G:246:LEU:HD13	2.02	0.60
1:I:487:THR:H	1:I:490:LYS:HB3	1.66	0.60
1:O:70:ASN:HA	1:O:73:LYS:HG2	1.84	0.60
1:U:409:LEU:HD22	1:U:631:THR:O	2.00	0.60
2:X:51:VAL:HB	2:X:55:THR:CG2	2.31	0.60
2:X:97:SER:HA	2:X:100:LEU:HD11	1.83	0.60
2:D:107:LEU:O	2:D:111:LEU:HB2	2.00	0.60
1:I:456:ALA:N	1:I:630:THR:HG22	2.08	0.60
1:S:89:PRO:HG2	1:S:256:MET:N	2.16	0.60
1:U:218:SER:OG	1:U:246:LEU:HD13	2.02	0.60
2:4:107:LEU:O	2:4:111:LEU:HB2	2.01	0.60
1:5:409:LEU:HD21	1:5:632:THR:CG2	2.28	0.60
1:A:424:GLY:O	1:A:427:VAL:HG12	2.02	0.60
2:B:40:LEU:HD22	2:B:78:ARG:HD2	1.84	0.60
1:C:551:THR:HG23	1:C:585:ASN:HD21	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:603:GLN:HG2	1:E:671:ALA:O	2.02	0.60
1:G:459:ILE:HD11	1:G:491:LEU:HD23	1.84	0.60
2:J:97:SER:HA	2:J:100:LEU:HD11	1.82	0.60
1:K:566:TYR:HB2	1:K:579:LEU:HB2	1.83	0.60
1:K:89:PRO:HG2	1:K:256:MET:N	2.17	0.60
1:M:167:PHE:CZ	1:M:288:LEU:HD11	2.36	0.60
1:M:552:PHE:CE2	1:M:661:LEU:HB3	2.36	0.60
2:R:51:VAL:HB	2:R:55:THR:CG2	2.30	0.60
1:U:292:PHE:O	1:U:296:VAL:HG23	2.02	0.60
1:1:552:PHE:CE2	1:1:661:LEU:HB3	2.35	0.60
1:G:353:ALA:CB	1:G:386:ALA:HB3	2.31	0.60
1:G:424:GLY:O	1:G:427:VAL:HG12	2.02	0.60
1:G:68:MET:SD	1:G:210:PRO:HG2	2.41	0.60
1:K:56:TRP:CH2	1:K:61:VAL:HG11	2.37	0.60
1:M:459:ILE:HD11	1:M:491:LEU:HD23	1.83	0.60
2:N:107:LEU:O	2:N:111:LEU:HB2	2.01	0.60
2:2:123:LEU:HA	2:2:126:ALA:HB3	1.84	0.59
1:3:268:LYS:HD3	1:3:290:THR:HG22	1.83	0.59
1:C:424:GLY:O	1:C:427:VAL:HG12	2.02	0.59
1:C:552:PHE:CE2	1:C:661:LEU:HB3	2.37	0.59
1:I:356:MET:O	1:I:359:VAL:HG12	2.02	0.59
2:N:52:SER:H	2:N:55:THR:CG2	2.15	0.59
1:W:422:PHE:CD1	1:W:475:PHE:HB2	2.36	0.59
1:W:566:TYR:HB2	1:W:579:LEU:HB2	1.84	0.59
1:1:487:THR:H	1:1:490:LYS:HB3	1.67	0.59
2:2:107:LEU:O	2:2:111:LEU:HB2	2.01	0.59
1:3:23:VAL:CG2	1:3:40:TRP:HE1	2.14	0.59
1:5:56:TRP:CZ2	1:5:61:VAL:HG11	2.36	0.59
1:E:487:THR:H	1:E:490:LYS:HB3	1.67	0.59
1:I:218:SER:OG	1:I:246:LEU:HD13	2.01	0.59
1:O:424:GLY:O	1:O:427:VAL:HG12	2.02	0.59
2:V:34:LEU:HG	2:V:39:LEU:HA	1.82	0.59
1:W:167:PHE:CZ	1:W:288:LEU:HD11	2.36	0.59
1:Y:424:GLY:O	1:Y:427:VAL:HG12	2.02	0.59
1:C:243:VAL:H	1:C:285:THR:CG2	2.13	0.59
1:G:61:VAL:HG12	2:H:80:ALA:HB1	1.82	0.59
1:O:356:MET:O	1:O:359:VAL:HG12	2.02	0.59
1:1:20:LEU:HD23	1:1:21:SER:N	2.18	0.59
1:C:111:VAL:HG22	1:C:354:MET:HB3	1.84	0.59
1:C:498:GLU:HB2	1:C:501:LEU:HD13	1.83	0.59
1:E:69:LEU:HD11	2:F:123:LEU:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:21:SER:O	1:O:22:GLU:HB2	2.01	0.59
2:T:107:LEU:O	2:T:111:LEU:HB2	2.02	0.59
1:W:332:ILE:HG22	1:W:338:ALA:HB3	1.84	0.59
1:Y:552:PHE:CE2	1:Y:661:LEU:HB3	2.37	0.59
1:1:103:ASP:OD2	1:1:106:LYS:HB2	2.02	0.59
1:1:332:ILE:HG22	1:1:338:ALA:HB3	1.83	0.59
1:3:40:TRP:HH2	2:4:43:GLU:HG2	1.67	0.59
1:5:424:GLY:O	1:5:427:VAL:HG12	2.03	0.59
2:B:51:VAL:HB	2:B:55:THR:CG2	2.30	0.59
1:E:552:PHE:CE2	1:E:661:LEU:HB3	2.38	0.59
1:G:551:THR:HG23	1:G:585:ASN:HD21	1.67	0.59
1:G:50:LEU:HD12	2:H:96:SER:HB3	1.84	0.59
1:M:332:ILE:HG22	1:M:338:ALA:HB3	1.84	0.59
1:M:111:VAL:CG1	1:M:358:THR:HG21	2.32	0.59
1:M:92:ILE:HG21	1:M:313:VAL:HG12	1.85	0.59
1:Q:566:TYR:HB2	1:Q:579:LEU:HB2	1.85	0.59
1:Y:27:LEU:HD11	2:Z:114:LEU:HD22	1.84	0.59
1:A:107:VAL:HG11	1:A:350:ARG:HB3	1.84	0.59
2:D:24:TRP:O	2:D:25:ALA:HB2	2.02	0.59
1:E:243:VAL:H	1:E:285:THR:CG2	2.13	0.59
1:G:292:PHE:O	1:G:296:VAL:HG23	2.02	0.59
1:G:89:PRO:HG2	1:G:256:MET:N	2.17	0.59
1:I:243:VAL:H	1:I:285:THR:CG2	2.12	0.59
1:Q:552:PHE:CE2	1:Q:661:LEU:HB3	2.38	0.59
2:Z:107:LEU:O	2:Z:111:LEU:HB2	2.02	0.59
1:1:292:PHE:O	1:1:296:VAL:HG23	2.02	0.59
1:3:614:PHE:HB2	1:3:634:ILE:HD12	1.85	0.59
1:3:70:ASN:N	1:3:70:ASN:HD22	2.00	0.59
1:5:332:ILE:HG22	1:5:338:ALA:HB3	1.84	0.59
1:G:172:ALA:O	1:G:178:LEU:HD12	2.03	0.59
1:G:566:TYR:HB2	1:G:579:LEU:HB2	1.84	0.59
1:M:551:THR:HG23	1:M:585:ASN:HD21	1.68	0.59
1:S:68:MET:SD	1:S:210:PRO:HG2	2.42	0.59
1:Y:356:MET:O	1:Y:359:VAL:HG12	2.01	0.59
1:1:456:ALA:N	1:1:630:THR:HG22	2.12	0.59
1:I:50:LEU:HD12	2:J:96:SER:HB3	1.85	0.59
1:M:361:MET:HE2	1:M:392:LEU:HA	1.85	0.59
1:M:65:LEU:HB3	2:N:128:LEU:HD12	1.85	0.59
1:Q:70:ASN:HA	1:Q:73:LYS:HE3	1.85	0.59
1:S:551:THR:HG23	1:S:585:ASN:HD21	1.68	0.59
2:T:97:SER:HA	2:T:100:LEU:HD11	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:552:PHE:CE2	1:W:661:LEU:HB3	2.38	0.59
1:E:218:SER:OG	1:E:246:LEU:HD13	2.03	0.59
1:E:68:MET:CE	1:E:210:PRO:HG2	2.32	0.59
1:I:566:TYR:HB2	1:I:579:LEU:HB2	1.84	0.59
1:S:361:MET:HE2	1:S:392:LEU:HA	1.83	0.59
1:1:21:SER:HB3	1:1:41:THR:HB	1.84	0.59
1:A:78:THR:HG22	1:A:228:ILE:HD12	1.84	0.59
1:G:487:THR:H	1:G:490:LYS:HB3	1.68	0.59
2:J:51:VAL:HB	2:J:55:THR:CG2	2.32	0.59
2:L:51:VAL:HB	2:L:55:THR:CG2	2.32	0.59
1:M:218:SER:OG	1:M:246:LEU:HD13	2.03	0.59
1:U:566:TYR:HB2	1:U:579:LEU:HB2	1.84	0.59
1:Y:353:ALA:CB	1:Y:386:ALA:HB3	2.32	0.59
1:Y:23:VAL:HG23	1:Y:40:TRP:HE1	1.68	0.59
1:1:84:ILE:HD13	1:1:84:ILE:H	1.68	0.58
2:6:107:LEU:O	2:6:111:LEU:HB2	2.02	0.58
2:B:34:LEU:HD11	2:B:39:LEU:HG	1.84	0.58
1:G:167:PHE:CZ	1:G:288:LEU:HD11	2.37	0.58
1:I:20:LEU:O	1:I:21:SER:HB2	2.03	0.58
1:U:68:MET:SD	1:U:210:PRO:HG2	2.42	0.58
1:Y:268:LYS:HD3	1:Y:290:THR:HG22	1.85	0.58
1:1:57:ARG:HD3	2:2:39:LEU:HD13	1.85	0.58
2:4:97:SER:HA	2:4:100:LEU:HD11	1.83	0.58
1:C:552:PHE:CE1	1:C:581:PRO:HB3	2.37	0.58
1:E:86:LEU:HD13	1:E:251:SER:HA	1.85	0.58
1:E:551:THR:HG23	1:E:585:ASN:HD21	1.67	0.58
2:V:107:LEU:O	2:V:111:LEU:HB2	2.03	0.58
1:5:373:GLU:O	1:5:377:ARG:HB2	2.03	0.58
1:5:78:THR:HG21	1:5:217:THR:O	2.03	0.58
1:Q:64:ASP:H	2:R:33:GLN:HG2	1.68	0.58
1:S:614:PHE:HB2	1:S:634:ILE:HD12	1.84	0.58
1:1:566:TYR:HB2	1:1:579:LEU:HB2	1.85	0.58
1:A:111:VAL:HG12	1:A:113:SER:H	1.68	0.58
1:G:552:PHE:CE2	1:G:661:LEU:HB3	2.38	0.58
1:M:57:ARG:NH1	2:N:39:LEU:HB3	2.19	0.58
1:M:89:PRO:HG2	1:M:256:MET:N	2.18	0.58
2:P:107:LEU:O	2:P:111:LEU:HB2	2.04	0.58
1:O:60:ASN:HD21	2:P:33:GLN:HE21	1.52	0.58
1:U:50:LEU:HD12	2:V:96:SER:HB3	1.84	0.58
1:3:23:VAL:HG22	2:4:45:ILE:O	2.04	0.58
1:3:353:ALA:CB	1:3:386:ALA:HB3	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:456:ALA:N	1:3:630:THR:HG22	2.09	0.58
1:5:243:VAL:H	1:5:285:THR:CG2	2.13	0.58
1:C:345:SER:O	1:C:347:GLY:N	2.37	0.58
1:G:524:ARG:HA	1:G:527:TRP:CD1	2.37	0.58
2:P:26:TYR:HB3	2:P:27:PRO:HD2	1.84	0.58
1:Q:424:GLY:O	1:Q:427:VAL:HG12	2.03	0.58
1:S:218:SER:OG	1:S:246:LEU:HD13	2.03	0.58
1:S:409:LEU:HD22	1:S:631:THR:O	2.03	0.58
1:S:68:MET:CE	1:S:210:PRO:HG2	2.34	0.58
2:T:34:LEU:CD2	2:T:39:LEU:HA	2.33	0.58
1:S:50:LEU:HD12	2:T:96:SER:HB3	1.85	0.58
1:1:23:VAL:CG2	1:1:40:TRP:HE1	2.16	0.58
1:A:373:GLU:O	1:A:377:ARG:HB2	2.04	0.58
1:C:99:SER:HA	1:C:118:PRO:HB2	1.84	0.58
1:E:353:ALA:CB	1:E:386:ALA:HB3	2.33	0.58
1:E:456:ALA:N	1:E:630:THR:HG22	2.10	0.58
1:G:243:VAL:H	1:G:285:THR:CG2	2.13	0.58
1:I:142:ARG:N	1:I:143:PRO:HD2	2.19	0.58
1:M:552:PHE:CE1	1:M:581:PRO:HB3	2.38	0.58
1:O:577:LEU:HD11	1:O:628:LEU:HD21	1.86	0.58
1:Q:25:LEU:HD23	2:R:48:ILE:HB	1.85	0.58
1:W:320:LYS:HA	1:W:377:ARG:HD3	1.83	0.58
1:G:162:ILE:HG22	1:G:163:ASN:N	2.18	0.58
1:I:204:LEU:HB3	1:I:213:TYR:CZ	2.39	0.58
1:K:24:LYS:O	2:L:47:ASP:HA	2.03	0.58
1:O:243:VAL:H	1:O:285:THR:CG2	2.12	0.58
1:Q:459:ILE:HD11	1:Q:491:LEU:HD23	1.86	0.58
1:S:23:VAL:HG12	1:S:40:TRP:HE1	1.68	0.58
1:1:167:PHE:CZ	1:1:288:LEU:HD11	2.38	0.58
1:3:373:GLU:O	1:3:377:ARG:HB2	2.04	0.58
1:3:552:PHE:CE2	1:3:661:LEU:HB3	2.38	0.58
1:A:614:PHE:HB2	1:A:634:ILE:HD12	1.85	0.58
2:H:51:VAL:HB	2:H:55:THR:CG2	2.32	0.58
1:O:162:ILE:HG22	1:O:163:ASN:N	2.19	0.58
1:S:142:ARG:N	1:S:143:PRO:HD2	2.19	0.58
1:S:332:ILE:HG22	1:S:338:ALA:HB3	1.83	0.58
1:S:552:PHE:CE2	1:S:661:LEU:HB3	2.39	0.58
1:U:100:MET:O	1:U:102:VAL:HG23	2.04	0.58
1:Y:102:VAL:HG23	1:Y:120:CYS:O	2.04	0.58
1:1:201:THR:HA	1:1:204:LEU:HD13	1.84	0.58
1:1:218:SER:OG	1:1:246:LEU:HD13	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:409:LEU:HD21	1:1:632:THR:CG2	2.33	0.58
1:3:92:ILE:HG21	1:3:313:VAL:HA	1.85	0.58
1:5:342:GLY:O	1:5:343:MET:HG2	2.04	0.58
1:5:50:LEU:HD12	2:6:96:SER:HB3	1.86	0.58
2:6:97:SER:HA	2:6:100:LEU:HD11	1.84	0.58
1:A:142:ARG:N	1:A:143:PRO:HD2	2.19	0.58
1:A:218:SER:OG	1:A:246:LEU:HD13	2.04	0.58
1:A:551:THR:HG23	1:A:585:ASN:HD21	1.68	0.58
1:C:110:GLY:O	1:C:112:ILE:HG13	2.04	0.58
1:C:614:PHE:HB2	1:C:634:ILE:HD12	1.86	0.58
1:E:316:ARG:HA	1:E:374:TYR:CE1	2.39	0.58
1:K:172:ALA:O	1:K:178:LEU:HD12	2.04	0.58
1:K:456:ALA:N	1:K:630:THR:HG22	2.11	0.58
1:M:614:PHE:HB2	1:M:634:ILE:HD12	1.86	0.58
1:O:487:THR:H	1:O:490:LYS:HB3	1.67	0.58
1:O:459:ILE:HD11	1:O:491:LEU:HD23	1.86	0.58
1:Q:162:ILE:HG22	1:Q:163:ASN:N	2.19	0.58
1:G:78:THR:HG23	2:V:124:PHE:O	2.03	0.58
1:1:142:ARG:N	1:1:143:PRO:HD2	2.19	0.58
1:1:50:LEU:HD12	2:2:96:SER:HB3	1.85	0.58
1:E:279:ARG:C	1:E:281:PRO:HD3	2.25	0.58
1:G:280:GLU:N	1:G:281:PRO:HD3	2.19	0.58
1:I:99:SER:HB3	1:I:119:ALA:HA	1.85	0.58
1:Y:280:GLU:N	1:Y:281:PRO:HD3	2.19	0.58
1:3:129:GLN:HB3	1:3:345:SER:OG	2.04	0.57
1:5:167:PHE:CZ	1:5:288:LEU:HD11	2.39	0.57
1:5:526:ALA:HB1	1:5:529:LEU:HD12	1.85	0.57
1:C:651:PHE:CD1	1:C:671:ALA:HA	2.39	0.57
2:D:97:SER:HA	2:D:100:LEU:HD11	1.85	0.57
1:K:280:GLU:N	1:K:281:PRO:HD3	2.19	0.57
1:Q:172:ALA:O	1:Q:178:LEU:HD12	2.04	0.57
1:U:280:GLU:N	1:U:281:PRO:HD3	2.19	0.57
1:Y:373:GLU:O	1:Y:377:ARG:HB2	2.04	0.57
1:Y:551:THR:HG23	1:Y:585:ASN:HD21	1.69	0.57
2:F:97:SER:HA	2:F:100:LEU:HD11	1.86	0.57
2:H:97:SER:HA	2:H:100:LEU:HD11	1.86	0.57
1:I:551:THR:HG23	1:I:585:ASN:HD21	1.69	0.57
2:L:34:LEU:HD23	2:L:39:LEU:HA	1.86	0.57
1:K:50:LEU:HD12	2:L:96:SER:HB3	1.86	0.57
1:O:92:ILE:HG21	1:O:313:VAL:HG12	1.86	0.57
1:Y:142:ARG:N	1:Y:143:PRO:HD2	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:204:LEU:HB3	1:A:213:TYR:CZ	2.40	0.57
1:A:280:GLU:N	1:A:281:PRO:HD3	2.19	0.57
1:A:566:TYR:HB2	1:A:579:LEU:HB2	1.85	0.57
1:C:409:LEU:HD21	1:C:632:THR:CG2	2.33	0.57
1:E:162:ILE:HG22	1:E:163:ASN:N	2.19	0.57
1:I:424:GLY:O	1:I:427:VAL:HG12	2.04	0.57
2:L:107:LEU:O	2:L:111:LEU:HB2	2.04	0.57
1:M:156:SER:CB	1:M:342:GLY:HA3	2.34	0.57
1:Q:614:PHE:HB2	1:Q:634:ILE:HD12	1.85	0.57
2:V:51:VAL:HB	2:V:55:THR:CG2	2.31	0.57
1:Y:566:TYR:HB2	1:Y:579:LEU:HB2	1.87	0.57
1:1:393:ILE:HB	1:1:439:GLN:NE2	2.20	0.57
1:1:95:VAL:HB	1:1:99:SER:OG	2.04	0.57
1:5:21:SER:HB3	1:5:41:THR:CB	2.28	0.57
1:5:551:THR:HG23	1:5:585:ASN:HD21	1.70	0.57
1:A:201:THR:HA	1:A:204:LEU:HD13	1.85	0.57
2:B:97:SER:HA	2:B:100:LEU:HD11	1.84	0.57
1:C:204:LEU:HB3	1:C:213:TYR:CZ	2.40	0.57
1:E:142:ARG:N	1:E:143:PRO:HD2	2.19	0.57
1:G:614:PHE:HB2	1:G:634:ILE:HD12	1.86	0.57
1:I:280:GLU:N	1:I:281:PRO:HD3	2.20	0.57
1:K:266:LEU:O	1:K:270:VAL:HG23	2.05	0.57
1:M:280:GLU:N	1:M:281:PRO:HD3	2.20	0.57
1:O:361:MET:HE2	1:O:392:LEU:HA	1.87	0.57
1:Q:57:ARG:NH1	2:R:39:LEU:HD13	2.19	0.57
1:1:243:VAL:H	1:1:285:THR:CG2	2.16	0.57
1:5:379:ALA:HB1	1:5:392:LEU:HD22	1.87	0.57
1:E:50:LEU:HD12	2:F:96:SER:HB3	1.85	0.57
1:O:20:LEU:O	1:O:21:SER:HB2	2.05	0.57
1:O:273:GLU:HG2	1:O:519:LEU:HD12	1.87	0.57
1:O:167:PHE:CZ	1:O:288:LEU:HD11	2.40	0.57
2:V:56:CYS:HB3	2:V:131:TYR:OH	2.04	0.57
1:3:50:LEU:HD12	2:4:96:SER:HB3	1.86	0.57
1:5:25:LEU:CD2	2:6:48:ILE:HB	2.34	0.57
1:G:204:LEU:HB3	1:G:213:TYR:CZ	2.40	0.57
1:I:201:THR:HA	1:I:204:LEU:HD13	1.85	0.57
1:I:393:ILE:HB	1:I:439:GLN:NE2	2.20	0.57
1:O:566:TYR:HB2	1:O:579:LEU:HB2	1.84	0.57
1:O:50:LEU:HD12	2:P:96:SER:HB3	1.86	0.57
1:S:566:TYR:HB2	1:S:579:LEU:HB2	1.86	0.57
1:W:424:GLY:O	1:W:427:VAL:HG12	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:201:THR:HA	1:5:204:LEU:HD13	1.87	0.57
1:5:614:PHE:HB2	1:5:634:ILE:HD12	1.86	0.57
1:C:142:ARG:N	1:C:143:PRO:HD2	2.19	0.57
1:C:452:ALA:HA	1:C:631:THR:CG2	2.33	0.57
1:E:89:PRO:HG2	1:E:256:MET:N	2.20	0.57
1:I:89:PRO:HG2	1:I:256:MET:N	2.20	0.57
1:K:270:VAL:HG13	1:K:516:ARG:HD2	1.85	0.57
1:K:361:MET:HE2	1:K:392:LEU:HA	1.87	0.57
1:K:551:THR:HG23	1:K:585:ASN:HD21	1.68	0.57
1:Y:167:PHE:CZ	1:Y:288:LEU:HD11	2.39	0.57
1:Y:422:PHE:CD1	1:Y:475:PHE:HB2	2.39	0.57
1:1:162:ILE:HG22	1:1:163:ASN:N	2.20	0.57
1:1:70:ASN:HA	1:1:73:LYS:HE2	1.85	0.57
1:A:243:VAL:H	1:A:285:THR:CG2	2.14	0.57
1:A:552:PHE:CE1	1:A:581:PRO:HB3	2.39	0.57
2:B:52:SER:H	2:B:55:THR:CG2	2.17	0.57
1:C:448:LEU:HD22	1:C:546:PRO:O	2.04	0.57
1:K:162:ILE:HG22	1:K:163:ASN:N	2.19	0.57
1:M:142:ARG:N	1:M:143:PRO:HD2	2.19	0.57
1:M:162:ILE:HG22	1:M:163:ASN:N	2.20	0.57
1:M:316:ARG:HA	1:M:374:TYR:HE1	1.69	0.57
1:O:142:ARG:N	1:O:143:PRO:HD2	2.19	0.57
1:5:280:GLU:N	1:5:281:PRO:HD3	2.20	0.57
1:5:552:PHE:CE2	1:5:661:LEU:HB3	2.38	0.57
1:C:280:GLU:N	1:C:281:PRO:HD3	2.20	0.57
1:C:566:TYR:HB2	1:C:579:LEU:HB2	1.87	0.57
1:E:21:SER:HB3	1:E:41:THR:HB	1.86	0.57
2:L:34:LEU:HD11	2:L:78:ARG:HH11	1.70	0.57
1:O:23:VAL:HB	2:P:45:ILE:O	2.05	0.57
1:W:162:ILE:HG22	1:W:163:ASN:N	2.20	0.57
1:W:50:LEU:HD12	2:X:96:SER:HB3	1.86	0.57
1:3:201:THR:HA	1:3:204:LEU:HD13	1.86	0.57
1:3:204:LEU:HB3	1:3:213:TYR:CZ	2.40	0.57
1:A:71:ARG:NH1	1:A:208:ARG:HH21	2.02	0.57
1:E:110:GLY:O	1:E:112:ILE:HG13	2.04	0.57
1:G:20:LEU:HD23	1:G:21:SER:N	2.20	0.57
1:K:204:LEU:HB3	1:K:213:TYR:CZ	2.40	0.57
1:K:218:SER:OG	1:K:246:LEU:HD13	2.05	0.57
1:M:201:THR:HA	1:M:204:LEU:HD13	1.87	0.57
1:M:292:PHE:O	1:M:296:VAL:HG23	2.05	0.57
2:N:41:ALA:O	2:N:45:ILE:HD12	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:142:ARG:N	1:Q:143:PRO:HD2	2.19	0.57
1:S:447:GLN:OE1	1:S:529:LEU:HD21	2.04	0.57
1:S:71:ARG:NH1	1:S:208:ARG:NH2	2.53	0.57
2:T:30:HIS:HB2	2:T:131:TYR:OXT	2.05	0.57
1:W:40:TRP:O	1:W:44:MET:HG3	2.05	0.57
1:1:204:LEU:HB3	1:1:213:TYR:CZ	2.39	0.56
1:1:28:ASP:HB2	2:2:26:TYR:HD2	1.70	0.56
1:A:162:ILE:HG22	1:A:163:ASN:N	2.20	0.56
1:C:66:ALA:HA	2:D:128:LEU:HD13	1.85	0.56
1:E:373:GLU:O	1:E:377:ARG:HB2	2.05	0.56
1:S:280:GLU:N	1:S:281:PRO:HD3	2.19	0.56
1:U:614:PHE:HB2	1:U:634:ILE:HD12	1.86	0.56
2:V:29:CYS:SG	2:V:30:HIS:N	2.76	0.56
1:C:162:ILE:HG22	1:C:163:ASN:N	2.20	0.56
1:C:184:ARG:HG2	1:C:185:VAL:H	1.69	0.56
1:G:24:LYS:HB3	1:G:37:THR:HG22	1.86	0.56
1:K:614:PHE:HB2	1:K:634:ILE:HD12	1.87	0.56
1:M:268:LYS:HD3	1:M:290:THR:HG22	1.85	0.56
1:M:566:TYR:HB2	1:M:579:LEU:HB2	1.85	0.56
1:S:393:ILE:HB	1:S:439:GLN:NE2	2.20	0.56
1:U:162:ILE:HG22	1:U:163:ASN:N	2.20	0.56
1:U:373:GLU:O	1:U:377:ARG:HB2	2.05	0.56
1:U:56:TRP:CZ2	1:U:61:VAL:HG11	2.40	0.56
1:1:280:GLU:N	1:1:281:PRO:HD3	2.21	0.56
1:5:204:LEU:HB3	1:5:213:TYR:CZ	2.40	0.56
1:E:409:LEU:HD21	1:E:632:THR:CG2	2.32	0.56
1:G:279:ARG:C	1:G:281:PRO:HD3	2.25	0.56
1:I:373:GLU:O	1:I:377:ARG:HB2	2.04	0.56
1:O:112:ILE:N	1:O:112:ILE:HD13	2.20	0.56
2:P:43:GLU:HG2	2:P:44:ASN:N	2.14	0.56
1:S:459:ILE:HD11	1:S:491:LEU:HD23	1.85	0.56
1:U:551:THR:HG23	1:U:585:ASN:HD21	1.69	0.56
1:U:23:VAL:HA	2:V:46:SER:HA	1.87	0.56
1:1:651:PHE:CD1	1:1:671:ALA:HA	2.41	0.56
1:3:142:ARG:N	1:3:143:PRO:HD2	2.20	0.56
1:5:552:PHE:CE1	1:5:581:PRO:HB3	2.41	0.56
1:E:280:GLU:N	1:E:281:PRO:HD3	2.19	0.56
1:E:409:LEU:HD22	1:E:631:THR:O	2.04	0.56
1:G:142:ARG:N	1:G:143:PRO:HD2	2.20	0.56
1:K:108:HIS:HB2	1:K:112:ILE:CD1	2.29	0.56
1:K:142:ARG:N	1:K:143:PRO:HD2	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:204:LEU:HB3	1:O:213:TYR:CZ	2.40	0.56
1:Q:50:LEU:HD12	2:R:96:SER:HB3	1.87	0.56
1:W:280:GLU:N	1:W:281:PRO:HD3	2.20	0.56
1:W:452:ALA:HA	1:W:631:THR:CG2	2.36	0.56
1:Y:393:ILE:HB	1:Y:439:GLN:NE2	2.20	0.56
1:1:614:PHE:HB2	1:1:634:ILE:HD12	1.87	0.56
1:3:280:GLU:N	1:3:281:PRO:HD3	2.19	0.56
1:5:65:LEU:HB3	2:6:128:LEU:HD22	1.88	0.56
1:C:279:ARG:C	1:C:281:PRO:HD3	2.26	0.56
1:C:68:MET:CE	2:D:81:ASN:HD21	2.17	0.56
1:G:201:THR:HA	1:G:204:LEU:HD13	1.87	0.56
1:3:218:SER:OG	1:3:246:LEU:HD13	2.05	0.56
1:3:452:ALA:HA	1:3:631:THR:CG2	2.34	0.56
1:C:53:GLU:OE2	2:D:41:ALA:HB1	2.05	0.56
1:E:70:ASN:HA	1:E:73:LYS:HE2	1.87	0.56
1:I:162:ILE:HG22	1:I:163:ASN:N	2.20	0.56
1:M:506:VAL:O	1:M:510:VAL:HG23	2.05	0.56
1:S:162:ILE:HG22	1:S:163:ASN:N	2.21	0.56
1:S:204:LEU:HB3	1:S:213:TYR:CZ	2.40	0.56
1:U:92:ILE:HG21	1:U:313:VAL:HG12	1.88	0.56
1:1:110:GLY:O	1:1:112:ILE:HG12	2.06	0.56
1:A:172:ALA:O	1:A:178:LEU:HD12	2.05	0.56
1:A:50:LEU:HD12	2:B:96:SER:HB3	1.87	0.56
1:G:286:GLU:O	1:G:290:THR:HG23	2.06	0.56
1:I:167:PHE:CZ	1:I:288:LEU:HD11	2.41	0.56
1:I:24:LYS:HG3	1:I:37:THR:HG22	1.87	0.56
1:I:552:PHE:CE1	1:I:581:PRO:HB3	2.41	0.56
1:K:373:GLU:O	1:K:377:ARG:HB2	2.06	0.56
1:S:373:GLU:O	1:S:377:ARG:HB2	2.06	0.56
1:5:142:ARG:N	1:5:143:PRO:HD2	2.20	0.56
1:5:162:ILE:HG22	1:5:163:ASN:N	2.21	0.56
1:C:114:GLY:H	1:C:117:SER:HB3	1.69	0.56
1:C:201:THR:HA	1:C:204:LEU:HD13	1.88	0.56
1:C:456:ALA:N	1:C:630:THR:HG22	2.11	0.56
2:F:52:SER:H	2:F:55:THR:CG2	2.19	0.56
1:G:184:ARG:HG2	1:G:185:VAL:H	1.71	0.56
1:K:379:ALA:HB1	1:K:392:LEU:HD22	1.88	0.56
1:O:551:THR:HG23	1:O:585:ASN:HD21	1.71	0.56
1:Q:201:THR:HA	1:Q:204:LEU:HD13	1.87	0.56
1:Q:280:GLU:N	1:Q:281:PRO:HD3	2.20	0.56
1:S:201:THR:HA	1:S:204:LEU:HD13	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:651:PHE:CD1	1:S:671:ALA:HA	2.41	0.56
1:W:373:GLU:O	1:W:377:ARG:HB2	2.05	0.56
1:3:393:ILE:HG12	1:3:431:GLU:HG2	1.88	0.56
1:3:551:THR:HG23	1:3:585:ASN:HD21	1.70	0.56
1:5:286:GLU:O	1:5:290:THR:HG23	2.05	0.56
1:G:23:VAL:HG22	2:H:45:ILE:O	2.05	0.56
1:I:279:ARG:C	1:I:281:PRO:HD3	2.26	0.56
1:K:167:PHE:CZ	1:K:288:LEU:HD11	2.40	0.56
1:M:69:LEU:HD22	1:M:69:LEU:H	1.71	0.56
1:O:280:GLU:N	1:O:281:PRO:HD3	2.20	0.56
1:S:279:ARG:C	1:S:281:PRO:HD3	2.26	0.56
2:V:26:TYR:CE2	2:V:49:TYR:HB3	2.40	0.56
1:W:142:ARG:N	1:W:143:PRO:HD2	2.20	0.56
1:1:551:THR:HG23	1:1:585:ASN:HD21	1.71	0.56
1:1:68:MET:SD	1:1:210:PRO:HG2	2.46	0.56
1:3:279:ARG:C	1:3:281:PRO:HD3	2.27	0.56
1:C:184:ARG:HG2	1:C:185:VAL:N	2.21	0.56
1:C:167:PHE:CZ	1:C:288:LEU:HD11	2.41	0.56
1:O:552:PHE:CE1	1:O:581:PRO:HB3	2.40	0.56
1:S:184:ARG:HG2	1:S:185:VAL:H	1.71	0.56
1:U:142:ARG:N	1:U:143:PRO:HD2	2.20	0.56
1:U:78:THR:O	1:U:78:THR:HG23	2.06	0.56
1:W:266:LEU:O	1:W:270:VAL:HG23	2.06	0.56
1:W:59:ALA:O	1:W:61:VAL:N	2.39	0.56
1:3:379:ALA:HB1	1:3:392:LEU:HD22	1.87	0.56
1:A:167:PHE:CZ	1:A:288:LEU:HD11	2.41	0.56
1:A:379:ALA:HB1	1:A:392:LEU:HD22	1.88	0.56
1:I:266:LEU:O	1:I:270:VAL:HG23	2.05	0.56
1:I:614:PHE:HB2	1:I:634:ILE:HD12	1.88	0.56
1:O:614:PHE:HB2	1:O:634:ILE:HD12	1.87	0.56
1:Q:167:PHE:CZ	1:Q:288:LEU:HD11	2.41	0.56
1:W:551:THR:HG23	1:W:585:ASN:HD21	1.71	0.56
1:Y:162:ILE:HG22	1:Y:163:ASN:N	2.21	0.56
1:Y:204:LEU:HB3	1:Y:213:TYR:CZ	2.41	0.56
1:1:71:ARG:HH22	1:1:209:GLY:HA3	1.71	0.55
2:4:45:ILE:HA	2:4:66:SER:HB3	1.89	0.55
1:E:316:ARG:HA	1:E:374:TYR:HE1	1.71	0.55
1:G:373:GLU:O	1:G:377:ARG:HB2	2.06	0.55
1:I:70:ASN:O	1:I:74:LEU:HB2	2.06	0.55
1:K:448:LEU:HD22	1:K:546:PRO:O	2.06	0.55
1:K:70:ASN:ND2	1:K:70:ASN:H	2.03	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:243:VAL:H	1:S:285:THR:CG2	2.15	0.55
2:T:52:SER:H	2:T:55:THR:CG2	2.19	0.55
1:Y:379:ALA:HB1	1:Y:392:LEU:HD22	1.89	0.55
1:Y:50:LEU:HD12	2:Z:96:SER:HB3	1.87	0.55
1:1:393:ILE:HG12	1:1:431:GLU:HG2	1.89	0.55
1:3:422:PHE:CD1	1:3:475:PHE:HB2	2.41	0.55
1:C:353:ALA:CB	1:C:386:ALA:HB3	2.36	0.55
1:C:50:LEU:HD12	2:D:96:SER:HB3	1.88	0.55
1:E:61:VAL:HG12	2:F:80:ALA:HB1	1.88	0.55
1:M:184:ARG:HG2	1:M:185:VAL:H	1.71	0.55
1:M:448:LEU:HD22	1:M:546:PRO:O	2.05	0.55
1:O:491:LEU:HB3	1:O:510:VAL:HG13	1.87	0.55
1:5:430:ARG:O	1:5:434:LEU:HD13	2.07	0.55
1:A:279:ARG:C	1:A:281:PRO:HD3	2.27	0.55
1:C:110:GLY:O	1:C:112:ILE:N	2.40	0.55
1:E:422:PHE:CD1	1:E:475:PHE:HB2	2.41	0.55
2:F:26:TYR:CB	2:F:27:PRO:HD2	2.34	0.55
1:M:373:GLU:O	1:M:377:ARG:HB2	2.06	0.55
2:T:45:ILE:HG21	2:T:64:LEU:HD22	1.88	0.55
1:U:103:ASP:HB2	1:U:122:LEU:HD12	1.87	0.55
1:U:279:ARG:C	1:U:281:PRO:HD3	2.27	0.55
1:1:160:LEU:CD1	1:1:338:ALA:HB2	2.35	0.55
1:5:160:LEU:CD1	1:5:338:ALA:HB2	2.34	0.55
1:5:455:SER:HB2	1:5:630:THR:HB	1.88	0.55
1:I:60:ASN:HD21	2:J:33:GLN:HE21	1.54	0.55
1:K:201:THR:HA	1:K:204:LEU:HD13	1.87	0.55
1:O:379:ALA:HB1	1:O:392:LEU:HD22	1.89	0.55
1:Q:20:LEU:HD12	1:Q:21:SER:N	2.21	0.55
1:Q:393:ILE:HB	1:Q:439:GLN:NE2	2.21	0.55
1:U:456:ALA:N	1:U:630:THR:HG22	2.18	0.55
2:V:31:VAL:HG12	2:V:79:CYS:HB3	1.87	0.55
1:W:64:ASP:HB3	2:X:32:THR:CA	2.36	0.55
1:Y:243:VAL:H	1:Y:285:THR:CG2	2.13	0.55
1:5:506:VAL:O	1:5:510:VAL:HG23	2.07	0.55
1:G:422:PHE:CD1	1:G:475:PHE:HB2	2.42	0.55
2:H:52:SER:H	2:H:55:THR:CG2	2.20	0.55
1:I:101:GLN:HG3	1:I:122:LEU:HD21	1.87	0.55
2:L:52:SER:H	2:L:55:THR:CG2	2.19	0.55
1:M:107:VAL:HG21	1:M:350:ARG:HB3	1.87	0.55
1:M:316:ARG:HA	1:M:374:TYR:CE1	2.40	0.55
1:Q:422:PHE:CD1	1:Q:475:PHE:HB2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:201:THR:HA	1:Y:204:LEU:HD13	1.88	0.55
1:C:482:LEU:HD13	1:C:544:ILE:HG13	1.88	0.55
1:K:68:MET:CE	1:K:210:PRO:HG2	2.36	0.55
1:S:393:ILE:HG12	1:S:431:GLU:HG2	1.88	0.55
1:W:614:PHE:HB2	1:W:634:ILE:HD12	1.88	0.55
1:5:172:ALA:O	1:5:178:LEU:HD12	2.07	0.55
1:5:91:ASP:HB2	1:5:92:ILE:HD12	1.89	0.55
1:C:204:LEU:HD23	1:C:213:TYR:CE2	2.41	0.55
1:G:70:ASN:HA	1:G:73:LYS:HG2	1.88	0.55
1:I:368:THR:O	1:I:372:GLN:HB2	2.07	0.55
1:K:422:PHE:CD1	1:K:475:PHE:HB2	2.42	0.55
1:M:577:LEU:HD11	1:M:628:LEU:HD21	1.89	0.55
1:O:422:PHE:CD1	1:O:475:PHE:HB2	2.41	0.55
1:1:23:VAL:HG23	1:1:40:TRP:HE1	1.71	0.55
2:6:34:LEU:HG	2:6:39:LEU:HA	1.88	0.55
2:6:52:SER:H	2:6:55:THR:CG2	2.20	0.55
1:A:23:VAL:CG2	1:A:40:TRP:HE1	2.19	0.55
1:A:430:ARG:O	1:A:434:LEU:HD13	2.06	0.55
1:I:345:SER:O	1:I:349:GLU:HG3	2.07	0.55
1:K:279:ARG:C	1:K:281:PRO:HD3	2.27	0.55
1:M:279:ARG:C	1:M:281:PRO:HD3	2.26	0.55
1:Q:373:GLU:O	1:Q:377:ARG:HB2	2.06	0.55
1:Q:551:THR:HG23	1:Q:585:ASN:HD21	1.72	0.55
1:W:204:LEU:HB3	1:W:213:TYR:CZ	2.42	0.55
1:W:279:ARG:C	1:W:281:PRO:HD3	2.27	0.55
1:W:286:GLU:O	1:W:290:THR:HG23	2.06	0.55
1:W:379:ALA:HB1	1:W:392:LEU:HD22	1.89	0.55
1:1:430:ARG:O	1:1:434:LEU:HD13	2.07	0.55
2:6:45:ILE:HA	2:6:66:SER:HB3	1.89	0.55
1:E:452:ALA:HA	1:E:631:THR:CG2	2.34	0.55
1:Q:66:ALA:HA	2:R:128:LEU:HD23	1.89	0.55
1:U:204:LEU:HB3	1:U:213:TYR:CZ	2.41	0.55
1:1:279:ARG:C	1:1:281:PRO:HD3	2.27	0.55
1:1:373:GLU:O	1:1:377:ARG:HB2	2.06	0.55
1:1:379:ALA:HB1	1:1:392:LEU:HD22	1.89	0.55
1:I:61:VAL:HG12	2:J:85:VAL:HG22	1.89	0.55
1:K:70:ASN:HD22	1:K:70:ASN:H	1.55	0.55
2:L:31:VAL:CG1	2:L:79:CYS:HB3	2.35	0.55
1:M:204:LEU:HB3	1:M:213:TYR:CZ	2.42	0.55
1:O:64:ASP:HA	2:P:31:VAL:HB	1.88	0.55
2:R:52:SER:H	2:R:55:THR:CG2	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:316:ARG:HA	1:S:374:TYR:HE1	1.70	0.55
2:J:128:LEU:HD11	1:S:80:GLY:CA	2.37	0.55
1:W:172:ALA:O	1:W:178:LEU:HD12	2.07	0.55
1:W:393:ILE:HG12	1:W:431:GLU:HG2	1.89	0.55
1:W:430:ARG:O	1:W:434:LEU:HD13	2.06	0.55
1:Y:110:GLY:O	1:Y:112:ILE:HD13	2.07	0.55
1:3:368:THR:O	1:3:372:GLN:HB2	2.06	0.54
1:5:58:GLU:OE1	1:5:150:GLN:HB2	2.07	0.54
1:C:379:ALA:HB1	1:C:392:LEU:HD22	1.90	0.54
1:C:56:TRP:CE2	1:C:61:VAL:HG21	2.42	0.54
1:E:524:ARG:HA	1:E:527:TRP:CD2	2.42	0.54
1:G:162:ILE:HG22	1:G:163:ASN:H	1.72	0.54
1:K:107:VAL:O	1:K:107:VAL:HG13	2.07	0.54
1:O:393:ILE:HB	1:O:439:GLN:NE2	2.22	0.54
1:Q:368:THR:O	1:Q:372:GLN:HB2	2.07	0.54
1:U:61:VAL:HG12	2:V:80:ALA:HB1	1.89	0.54
1:W:65:LEU:HB3	2:X:128:LEU:HD23	1.90	0.54
1:1:552:PHE:CE1	1:1:581:PRO:HB3	2.41	0.54
1:3:162:ILE:HG22	1:3:163:ASN:N	2.22	0.54
1:3:78:THR:HG21	1:3:217:THR:O	2.07	0.54
1:C:373:GLU:O	1:C:377:ARG:HB2	2.07	0.54
1:M:524:ARG:HA	1:M:527:TRP:CD1	2.42	0.54
1:Q:286:GLU:O	1:Q:290:THR:HG23	2.07	0.54
1:U:393:ILE:HB	1:U:439:GLN:NE2	2.22	0.54
1:W:201:THR:HA	1:W:204:LEU:HD13	1.88	0.54
1:Y:491:LEU:HB3	1:Y:510:VAL:HG13	1.89	0.54
1:Y:452:ALA:HA	1:Y:631:THR:CG2	2.35	0.54
1:3:552:PHE:CE1	1:3:581:PRO:HB3	2.41	0.54
1:5:75:ILE:HD12	1:5:75:ILE:N	2.23	0.54
2:6:45:ILE:CD1	2:6:64:LEU:HD22	2.38	0.54
1:A:409:LEU:HD21	1:A:632:THR:CG2	2.35	0.54
1:C:577:LEU:HD11	1:C:628:LEU:HD21	1.88	0.54
1:E:368:THR:O	1:E:372:GLN:HB2	2.07	0.54
1:E:552:PHE:CE1	1:E:581:PRO:HB3	2.42	0.54
1:G:59:ALA:HB2	1:G:149:TYR:OH	2.07	0.54
2:H:31:VAL:HG13	2:H:79:CYS:HB3	1.89	0.54
1:I:102:VAL:HG11	1:I:351:LEU:HD13	1.88	0.54
1:I:379:ALA:HB1	1:I:392:LEU:HD22	1.90	0.54
2:J:52:SER:H	2:J:55:THR:CG2	2.20	0.54
1:K:409:LEU:HD21	1:K:632:THR:CG2	2.36	0.54
1:M:379:ALA:HB1	1:M:392:LEU:HD22	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:524:ARG:HA	1:O:527:TRP:CD1	2.42	0.54
2:P:52:SER:H	2:P:55:THR:CG2	2.20	0.54
1:Q:204:LEU:HB3	1:Q:213:TYR:CZ	2.42	0.54
1:S:491:LEU:HB3	1:S:510:VAL:HG13	1.89	0.54
1:U:167:PHE:CZ	1:U:288:LEU:HD11	2.43	0.54
1:U:430:ARG:O	1:U:434:LEU:HD13	2.07	0.54
1:Y:430:ARG:O	1:Y:434:LEU:HD13	2.08	0.54
1:1:361:MET:HE2	1:1:392:LEU:HA	1.90	0.54
1:3:506:VAL:O	1:3:510:VAL:HG23	2.07	0.54
1:5:368:THR:O	1:5:372:GLN:HB2	2.07	0.54
1:5:491:LEU:HB3	1:5:510:VAL:HG13	1.90	0.54
1:A:577:LEU:HD11	1:A:628:LEU:HD21	1.89	0.54
1:E:172:ALA:O	1:E:178:LEU:HD12	2.07	0.54
1:E:204:LEU:HB3	1:E:213:TYR:CZ	2.42	0.54
1:M:111:VAL:HG13	1:M:358:THR:HG21	1.90	0.54
1:M:69:LEU:CD2	1:M:69:LEU:H	2.19	0.54
1:M:70:ASN:HA	1:M:73:LYS:HE2	1.89	0.54
1:O:201:THR:HA	1:O:204:LEU:HD13	1.88	0.54
1:O:368:THR:O	1:O:372:GLN:HB2	2.08	0.54
1:O:373:GLU:O	1:O:377:ARG:HB2	2.08	0.54
2:V:129:ASN:HD22	2:V:129:ASN:N	2.05	0.54
1:W:20:LEU:HA	1:W:40:TRP:CZ2	2.42	0.54
2:2:52:SER:H	2:2:55:THR:CG2	2.20	0.54
1:3:243:VAL:H	1:3:285:THR:CG2	2.16	0.54
1:3:491:LEU:HB3	1:3:510:VAL:HG13	1.89	0.54
1:5:522:GLU:HB2	1:5:525:ASP:OD1	2.06	0.54
1:5:68:MET:SD	1:5:210:PRO:HG2	2.47	0.54
1:A:270:VAL:HG13	1:A:516:ARG:HD2	1.88	0.54
1:A:361:MET:HE2	1:A:392:LEU:HA	1.89	0.54
1:C:422:PHE:CD1	1:C:475:PHE:HB2	2.43	0.54
1:E:102:VAL:HG11	1:E:351:LEU:HD13	1.90	0.54
1:I:491:LEU:HB3	1:I:510:VAL:HG13	1.90	0.54
1:I:27:LEU:HD23	2:J:50:LEU:HD12	1.90	0.54
1:M:86:LEU:CD1	1:M:251:SER:HA	2.38	0.54
1:O:172:ALA:O	1:O:178:LEU:HD12	2.08	0.54
1:S:409:LEU:HD21	1:S:632:THR:CG2	2.38	0.54
1:S:455:SER:HB2	1:S:630:THR:HB	1.88	0.54
1:U:422:PHE:CD1	1:U:475:PHE:HB2	2.43	0.54
1:1:20:LEU:HD23	1:1:21:SER:H	1.71	0.54
2:4:31:VAL:O	2:4:32:THR:HG23	2.07	0.54
2:4:45:ILE:HG21	2:4:64:LEU:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:368:THR:O	1:C:372:GLN:HB2	2.08	0.54
1:E:506:VAL:O	1:E:510:VAL:HG23	2.06	0.54
1:G:379:ALA:HB1	1:G:392:LEU:HD22	1.89	0.54
1:I:422:PHE:CD1	1:I:475:PHE:HB2	2.43	0.54
1:K:204:LEU:HD23	1:K:213:TYR:CE2	2.43	0.54
1:O:148:PHE:CZ	1:O:229:VAL:HG21	2.43	0.54
1:Q:170:THR:O	1:Q:180:GLY:HA2	2.08	0.54
1:Q:266:LEU:O	1:Q:270:VAL:HG23	2.06	0.54
1:Q:491:LEU:HB3	1:Q:510:VAL:HG13	1.88	0.54
1:U:491:LEU:HB3	1:U:510:VAL:HG13	1.90	0.54
1:W:78:THR:HG22	1:W:80:GLY:H	1.71	0.54
1:Y:279:ARG:C	1:Y:281:PRO:HD3	2.26	0.54
1:1:23:VAL:HG22	2:2:45:ILE:O	2.08	0.54
1:5:266:LEU:O	1:5:270:VAL:HG23	2.08	0.54
1:A:393:ILE:HB	1:A:439:GLN:NE2	2.22	0.54
1:C:90:VAL:O	1:C:90:VAL:HG13	2.06	0.54
1:S:172:ALA:O	1:S:178:LEU:HD12	2.08	0.54
2:T:31:VAL:HG13	2:T:79:CYS:HB3	1.90	0.54
1:U:257:THR:HG23	1:U:260:SER:HB2	1.90	0.54
2:V:52:SER:H	2:V:55:THR:CG2	2.20	0.54
1:W:149:TYR:CE2	1:W:208:ARG:HA	2.42	0.54
1:Y:286:GLU:O	1:Y:290:THR:HG23	2.08	0.54
1:Y:290:THR:O	1:Y:294:VAL:HG23	2.07	0.54
1:Y:368:THR:O	1:Y:372:GLN:HB2	2.08	0.54
1:1:184:ARG:HG2	1:1:185:VAL:H	1.72	0.54
1:3:27:LEU:HD23	1:3:28:ASP:H	1.73	0.54
1:3:286:GLU:O	1:3:290:THR:HG23	2.07	0.54
1:3:430:ARG:O	1:3:434:LEU:HD13	2.07	0.54
1:5:23:VAL:CG2	1:5:40:TRP:HE1	2.20	0.54
1:A:316:ARG:HA	1:A:374:TYR:HE1	1.72	0.54
1:C:24:LYS:HB3	1:C:37:THR:HG22	1.90	0.54
2:D:52:SER:H	2:D:55:THR:HG21	1.72	0.54
1:E:361:MET:HE2	1:E:392:LEU:HA	1.89	0.54
1:E:393:ILE:HG12	1:E:431:GLU:HG2	1.89	0.54
1:I:490:LYS:HZ2	1:I:626:GLU:HB3	1.73	0.54
1:K:112:ILE:HG22	1:K:112:ILE:O	2.08	0.54
1:M:111:VAL:HG12	1:M:112:ILE:N	2.23	0.54
1:M:368:THR:O	1:M:372:GLN:HB2	2.07	0.54
1:M:422:PHE:CD1	1:M:475:PHE:HB2	2.43	0.54
1:M:452:ALA:HA	1:M:631:THR:CG2	2.34	0.54
1:O:430:ARG:O	1:O:434:LEU:HD13	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:279:ARG:C	1:Q:281:PRO:HD3	2.28	0.54
1:Q:404:TYR:CD2	1:Q:449:LEU:HD22	2.43	0.54
1:Q:68:MET:CE	1:Q:210:PRO:HG2	2.37	0.54
1:S:422:PHE:CD1	1:S:475:PHE:HB2	2.43	0.54
1:U:506:VAL:O	1:U:510:VAL:HG23	2.07	0.54
2:Z:26:TYR:HB3	2:Z:27:PRO:HD2	1.88	0.54
1:3:266:LEU:O	1:3:270:VAL:HG23	2.08	0.54
1:E:266:LEU:O	1:E:270:VAL:HG23	2.08	0.54
1:K:59:ALA:O	1:K:61:VAL:N	2.41	0.54
1:M:184:ARG:HG2	1:M:185:VAL:N	2.23	0.54
1:S:316:ARG:HA	1:S:374:TYR:CE1	2.42	0.54
1:1:491:LEU:HB3	1:1:510:VAL:HG13	1.90	0.54
1:Y:69:LEU:HB2	1:1:79:SER:OG	2.08	0.54
1:3:160:LEU:CD1	1:3:338:ALA:HB2	2.34	0.54
1:A:491:LEU:HB3	1:A:510:VAL:HG13	1.89	0.54
1:C:107:VAL:HG21	1:C:350:ARG:HB3	1.89	0.54
1:E:393:ILE:HB	1:E:439:GLN:NE2	2.23	0.54
1:E:491:LEU:HB3	1:E:510:VAL:HG13	1.89	0.54
1:G:184:ARG:HG2	1:G:185:VAL:N	2.22	0.54
1:I:114:GLY:H	1:I:117:SER:CB	2.20	0.54
1:I:148:PHE:CZ	1:I:229:VAL:HG21	2.43	0.54
1:I:63:GLU:OE2	1:I:68:MET:HB2	2.08	0.54
1:K:393:ILE:HB	1:K:439:GLN:NE2	2.22	0.54
1:M:266:LEU:O	1:M:270:VAL:HG23	2.08	0.54
1:M:50:LEU:HD12	2:N:96:SER:HB3	1.89	0.54
1:O:409:LEU:HD21	1:O:632:THR:CG2	2.33	0.54
1:S:167:PHE:CZ	1:S:288:LEU:HD11	2.43	0.54
1:W:651:PHE:CD1	1:W:671:ALA:HA	2.43	0.54
2:X:52:SER:H	2:X:55:THR:CG2	2.21	0.54
1:1:184:ARG:HG2	1:1:185:VAL:N	2.23	0.53
1:1:506:VAL:O	1:1:510:VAL:HG23	2.07	0.53
1:1:64:ASP:HA	2:2:31:VAL:HB	1.89	0.53
1:E:577:LEU:HD11	1:E:628:LEU:HD21	1.90	0.53
2:H:26:TYR:CE2	2:H:49:TYR:HB3	2.43	0.53
1:M:87:ALA:O	1:M:255:THR:HG22	2.08	0.53
2:N:26:TYR:CD2	2:N:27:PRO:HD2	2.43	0.53
1:O:63:GLU:HA	2:P:33:GLN:HG3	1.88	0.53
1:Q:552:PHE:CE1	1:Q:581:PRO:HB3	2.43	0.53
1:S:204:LEU:HD23	1:S:213:TYR:CE2	2.43	0.53
1:S:61:VAL:HG12	2:T:80:ALA:HB1	1.89	0.53
1:U:409:LEU:HD11	1:U:632:THR:OG1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:393:ILE:HB	1:W:439:GLN:NE2	2.23	0.53
1:Y:92:ILE:H	1:Y:92:ILE:HD12	1.72	0.53
2:Z:81:ASN:O	2:Z:85:VAL:HG23	2.08	0.53
2:2:31:VAL:O	2:2:32:THR:HG23	2.09	0.53
1:3:172:ALA:O	1:3:178:LEU:HD12	2.08	0.53
1:5:422:PHE:CD1	1:5:475:PHE:HB2	2.43	0.53
1:A:61:VAL:HG12	2:B:80:ALA:HB1	1.89	0.53
1:E:170:THR:O	1:E:180:GLY:HA2	2.08	0.53
1:G:393:ILE:HB	1:G:439:GLN:NE2	2.23	0.53
2:J:26:TYR:HB3	2:J:27:PRO:HD2	1.89	0.53
1:K:243:VAL:N	1:K:285:THR:HG22	2.17	0.53
1:M:21:SER:CA	1:M:41:THR:HB	2.36	0.53
1:O:116:ASN:HD22	1:O:116:ASN:H	1.57	0.53
1:O:204:LEU:HD23	1:O:213:TYR:CE2	2.43	0.53
1:Y:266:LEU:O	1:Y:270:VAL:HG23	2.09	0.53
1:1:368:THR:O	1:1:372:GLN:HB2	2.07	0.53
1:1:404:TYR:CD2	1:1:449:LEU:HD22	2.44	0.53
2:4:52:SER:H	2:4:55:THR:CG2	2.21	0.53
1:5:279:ARG:C	1:5:281:PRO:HD3	2.28	0.53
1:5:393:ILE:HB	1:5:439:GLN:NE2	2.22	0.53
2:D:42:LEU:HD12	2:D:42:LEU:H	1.72	0.53
1:E:201:THR:HA	1:E:204:LEU:HD13	1.88	0.53
2:L:127:ASN:HD22	2:L:130:ARG:HB3	1.73	0.53
1:O:279:ARG:C	1:O:281:PRO:HD3	2.29	0.53
1:O:459:ILE:O	1:O:463:LEU:HD13	2.08	0.53
1:S:404:TYR:CD2	1:S:449:LEU:HD22	2.43	0.53
1:Y:506:VAL:O	1:Y:510:VAL:HG23	2.09	0.53
1:1:28:ASP:HB2	2:2:26:TYR:CD2	2.43	0.53
1:3:59:ALA:O	1:3:61:VAL:N	2.41	0.53
1:5:65:LEU:HG	2:6:31:VAL:HG21	1.90	0.53
1:A:21:SER:CA	1:A:41:THR:HB	2.37	0.53
1:A:68:MET:CE	1:A:210:PRO:HG2	2.38	0.53
2:D:39:LEU:HD13	2:D:39:LEU:N	2.23	0.53
1:E:379:ALA:HB1	1:E:392:LEU:HD22	1.90	0.53
1:E:430:ARG:O	1:E:434:LEU:HD13	2.08	0.53
1:E:524:ARG:HD2	1:E:524:ARG:N	2.13	0.53
1:I:430:ARG:O	1:I:434:LEU:HD13	2.09	0.53
1:K:273:GLU:HG2	1:K:519:LEU:HD12	1.89	0.53
1:Q:184:ARG:HG2	1:Q:185:VAL:H	1.74	0.53
1:S:430:ARG:O	1:S:434:LEU:HD13	2.08	0.53
2:T:40:LEU:H	2:T:40:LEU:HD12	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:266:LEU:O	1:U:270:VAL:HG23	2.08	0.53
1:W:368:THR:O	1:W:372:GLN:HB2	2.08	0.53
1:Y:614:PHE:HB2	1:Y:634:ILE:HD12	1.91	0.53
1:5:257:THR:HG23	1:5:260:SER:HB2	1.90	0.53
1:5:29:ILE:H	1:5:29:ILE:HD12	1.74	0.53
1:A:422:PHE:CD1	1:A:475:PHE:HB2	2.43	0.53
1:A:651:PHE:CD1	1:A:671:ALA:HA	2.42	0.53
1:C:29:ILE:HG22	1:C:30:GLU:H	1.73	0.53
1:G:266:LEU:O	1:G:270:VAL:HG23	2.09	0.53
1:G:448:LEU:HD22	1:G:546:PRO:O	2.07	0.53
1:I:23:VAL:HB	1:I:38:ILE:O	2.08	0.53
1:M:102:VAL:HG13	1:M:121:MET:HG2	1.89	0.53
1:M:23:VAL:HG22	2:N:45:ILE:O	2.08	0.53
1:1:95:VAL:HG11	1:1:120:CYS:SG	2.49	0.53
1:A:56:TRP:CZ2	1:A:61:VAL:HG11	2.43	0.53
1:E:78:THR:HG21	1:E:217:THR:O	2.09	0.53
1:K:356:MET:HG2	1:K:378:LEU:HD11	1.91	0.53
1:K:430:ARG:O	1:K:434:LEU:HD13	2.08	0.53
1:M:393:ILE:HB	1:M:439:GLN:NE2	2.23	0.53
1:Q:430:ARG:O	1:Q:434:LEU:HD13	2.08	0.53
1:Q:61:VAL:HG12	2:R:85:VAL:HG22	1.89	0.53
1:S:368:THR:O	1:S:372:GLN:HB2	2.08	0.53
1:U:201:THR:HA	1:U:204:LEU:HD13	1.90	0.53
1:3:86:LEU:HD23	1:3:221:SER:OG	2.09	0.53
1:5:361:MET:HE2	1:5:392:LEU:HA	1.89	0.53
1:A:404:TYR:CD2	1:A:449:LEU:HD22	2.43	0.53
1:C:506:VAL:O	1:C:510:VAL:HG23	2.08	0.53
1:C:637:GLN:HE21	1:C:641:ASN:HD21	1.57	0.53
1:E:286:GLU:O	1:E:290:THR:HG23	2.09	0.53
1:G:491:LEU:HB3	1:G:510:VAL:HG13	1.90	0.53
1:G:552:PHE:CE1	1:G:581:PRO:HB3	2.44	0.53
1:K:170:THR:O	1:K:180:GLY:HA2	2.09	0.53
1:M:172:ALA:O	1:M:178:LEU:HD12	2.08	0.53
1:M:156:SER:HB3	1:M:342:GLY:HA3	1.90	0.53
1:S:184:ARG:HG2	1:S:185:VAL:N	2.23	0.53
1:U:379:ALA:HB1	1:U:392:LEU:HD22	1.89	0.53
1:U:56:TRP:CE2	1:U:61:VAL:HG21	2.44	0.53
1:W:316:ARG:HA	1:W:374:TYR:HE1	1.72	0.53
1:1:115:LEU:HD13	1:1:359:VAL:HG21	1.91	0.53
1:5:301:VAL:HG21	1:5:325:LEU:HD11	1.90	0.53
1:C:172:ALA:O	1:C:178:LEU:HD12	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:62:THR:HG23	2:D:33:GLN:HA	1.90	0.53
2:D:45:ILE:HD13	2:D:64:LEU:HD22	1.89	0.53
1:C:61:VAL:HG13	2:D:85:VAL:HG22	1.91	0.53
1:E:21:SER:O	1:E:22:GLU:HG2	2.09	0.53
1:E:156:SER:HB3	1:E:342:GLY:HA3	1.91	0.53
2:F:34:LEU:HD22	2:F:39:LEU:CA	2.36	0.53
1:G:268:LYS:HD3	1:G:290:THR:HG22	1.90	0.53
1:K:20:LEU:O	1:K:21:SER:HB2	2.09	0.53
1:M:459:ILE:O	1:M:463:LEU:HD13	2.09	0.53
2:N:37:GLN:O	2:N:38:HIS:HB3	2.08	0.53
1:O:393:ILE:HG12	1:O:431:GLU:HG2	1.91	0.53
1:S:266:LEU:O	1:S:270:VAL:HG23	2.09	0.53
1:S:506:VAL:O	1:S:510:VAL:HG23	2.08	0.53
1:W:491:LEU:HB3	1:W:510:VAL:HG13	1.91	0.53
1:3:25:LEU:HD11	1:3:36:TYR:HB2	1.90	0.53
2:4:39:LEU:N	2:4:39:LEU:HD13	2.21	0.53
1:5:103:ASP:HB3	1:5:106:LYS:HB2	1.91	0.53
1:K:368:THR:O	1:K:372:GLN:HB2	2.09	0.53
1:M:491:LEU:HB3	1:M:510:VAL:HG13	1.91	0.53
2:N:34:LEU:HD21	2:N:78:ARG:HH11	1.74	0.53
1:O:637:GLN:HE21	1:O:641:ASN:HD21	1.57	0.53
1:Q:108:HIS:C	1:Q:110:GLY:H	2.10	0.53
1:S:111:VAL:HG21	1:S:358:THR:CG2	2.39	0.53
1:Y:29:ILE:HD12	1:Y:29:ILE:H	1.74	0.53
1:5:108:HIS:HB2	1:5:112:ILE:CD1	2.39	0.53
1:5:290:THR:O	1:5:294:VAL:HG23	2.08	0.53
1:5:61:VAL:HG12	2:6:80:ALA:HB1	1.91	0.53
1:C:257:THR:HG23	1:C:260:SER:HB2	1.91	0.53
1:C:78:THR:HG21	1:C:217:THR:O	2.08	0.53
1:C:92:ILE:HD13	1:C:313:VAL:HG12	1.90	0.53
1:E:184:ARG:HG2	1:E:185:VAL:H	1.73	0.53
1:G:430:ARG:O	1:G:434:LEU:HD13	2.09	0.53
1:M:20:LEU:O	1:M:21:SER:HB3	2.08	0.53
1:Q:160:LEU:CD1	1:Q:338:ALA:HB2	2.36	0.53
1:S:286:GLU:O	1:S:290:THR:HG23	2.09	0.53
2:V:30:HIS:HE1	2:V:129:ASN:ND2	2.07	0.53
1:1:356:MET:HG2	1:1:378:LEU:HD11	1.91	0.52
1:3:23:VAL:HA	2:4:46:SER:HA	1.90	0.52
1:5:77:LYS:HZ3	1:5:232:PHE:HE2	1.56	0.52
1:A:162:ILE:HG22	1:A:163:ASN:H	1.74	0.52
1:C:68:MET:CE	1:C:210:PRO:HG2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:66:ALA:CA	2:H:128:LEU:HD13	2.38	0.52
1:I:361:MET:HE2	1:I:392:LEU:HA	1.91	0.52
2:J:128:LEU:HD12	2:J:128:LEU:N	2.18	0.52
1:O:162:ILE:HG22	1:O:163:ASN:H	1.74	0.52
2:P:123:LEU:HA	2:P:126:ALA:HB3	1.90	0.52
1:Q:379:ALA:HB1	1:Q:392:LEU:HD22	1.89	0.52
1:Q:393:ILE:HG12	1:Q:431:GLU:HG2	1.92	0.52
1:S:270:VAL:HG13	1:S:516:ARG:HD2	1.90	0.52
1:S:356:MET:HG2	1:S:378:LEU:HD11	1.91	0.52
1:S:637:GLN:HE21	1:S:641:ASN:HD21	1.56	0.52
1:U:117:SER:HB2	1:U:118:PRO:HD2	1.90	0.52
1:Y:114:GLY:H	1:Y:117:SER:HB2	1.75	0.52
1:Y:172:ALA:O	1:Y:178:LEU:HD12	2.08	0.52
1:5:393:ILE:HG12	1:5:431:GLU:HG2	1.90	0.52
2:6:60:SER:CB	2:6:83:LEU:HG	2.38	0.52
1:A:368:THR:O	1:A:372:GLN:HB2	2.09	0.52
1:C:25:LEU:HD13	1:C:27:LEU:HD21	1.91	0.52
1:C:286:GLU:O	1:C:290:THR:HG23	2.08	0.52
2:F:40:LEU:HD11	2:F:78:ARG:HD2	1.90	0.52
1:G:160:LEU:CD1	1:G:338:ALA:HB2	2.38	0.52
1:O:20:LEU:O	1:O:21:SER:CB	2.57	0.52
1:S:59:ALA:HB2	1:S:149:TYR:OH	2.10	0.52
1:U:459:ILE:O	1:U:463:LEU:HD13	2.09	0.52
1:3:361:MET:HE2	1:3:392:LEU:HA	1.90	0.52
1:G:24:LYS:O	2:H:47:ASP:HA	2.08	0.52
1:K:491:LEU:HB3	1:K:510:VAL:HG13	1.91	0.52
2:L:35:ARG:CD	2:L:35:ARG:H	2.22	0.52
1:M:409:LEU:HD22	1:M:631:THR:O	2.10	0.52
1:O:170:THR:O	1:O:180:GLY:HA2	2.09	0.52
1:U:59:ALA:O	1:U:61:VAL:N	2.42	0.52
1:W:257:THR:HG23	1:W:260:SER:HB2	1.91	0.52
1:W:506:VAL:O	1:W:510:VAL:HG23	2.09	0.52
2:B:41:ALA:O	2:B:45:ILE:HG12	2.09	0.52
2:B:42:LEU:HD22	2:B:45:ILE:HD11	1.92	0.52
1:C:111:VAL:HG11	1:C:358:THR:CG2	2.40	0.52
1:I:286:GLU:O	1:I:290:THR:HG23	2.09	0.52
1:I:459:ILE:O	1:I:463:LEU:HD13	2.10	0.52
1:K:27:LEU:CD2	2:L:50:LEU:HD12	2.39	0.52
2:N:52:SER:H	2:N:55:THR:HG21	1.74	0.52
1:O:24:LYS:HB2	1:O:37:THR:HG22	1.92	0.52
1:S:71:ARG:NH1	1:S:208:ARG:HH21	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:157:TYR:HA	1:U:171:GLY:O	2.10	0.52
1:U:89:PRO:HG2	1:U:256:MET:N	2.25	0.52
1:C:393:ILE:HG12	1:C:431:GLU:HG2	1.90	0.52
1:E:526:ALA:HB1	1:E:529:LEU:HD12	1.92	0.52
1:G:452:ALA:HA	1:G:631:THR:CG2	2.39	0.52
1:G:270:VAL:HG13	1:G:516:ARG:HD2	1.91	0.52
1:G:57:ARG:HH11	2:H:39:LEU:CD2	2.22	0.52
1:I:40:TRP:O	1:I:44:MET:HG3	2.09	0.52
1:I:433:ARG:HD2	1:I:524:ARG:HE	1.75	0.52
1:K:162:ILE:HG22	1:K:163:ASN:H	1.75	0.52
1:K:316:ARG:HA	1:K:374:TYR:HE1	1.74	0.52
1:M:301:VAL:HG21	1:M:325:LEU:HD11	1.91	0.52
1:O:266:LEU:O	1:O:270:VAL:HG23	2.09	0.52
1:Q:184:ARG:HG2	1:Q:185:VAL:N	2.24	0.52
1:S:21:SER:O	1:S:22:GLU:HB2	2.08	0.52
1:U:184:ARG:HG2	1:U:185:VAL:H	1.75	0.52
1:U:286:GLU:O	1:U:290:THR:HG23	2.09	0.52
1:Y:101:GLN:HB3	1:Y:122:LEU:CD2	2.40	0.52
1:Y:21:SER:CB	1:Y:41:THR:HB	2.34	0.52
2:Z:40:LEU:HD12	2:Z:78:ARG:HD2	1.92	0.52
1:1:482:LEU:HD11	1:1:529:LEU:HD11	1.90	0.52
1:3:356:MET:HG2	1:3:378:LEU:HD11	1.91	0.52
1:3:637:GLN:HE21	1:3:641:ASN:HD21	1.58	0.52
1:5:86:LEU:HD12	1:5:221:SER:OG	2.10	0.52
1:5:40:TRP:O	1:5:44:MET:HG3	2.10	0.52
1:I:452:ALA:HA	1:I:631:THR:CG2	2.35	0.52
1:K:29:ILE:O	1:K:30:GLU:C	2.48	0.52
2:N:130:ARG:HD3	2:N:131:TYR:CZ	2.44	0.52
1:O:102:VAL:HG11	1:O:351:LEU:HD13	1.92	0.52
1:U:78:THR:HG22	1:U:215:SER:C	2.30	0.52
1:U:404:TYR:CD2	1:U:449:LEU:HD22	2.45	0.52
2:Z:128:LEU:HD12	2:Z:128:LEU:N	2.14	0.52
2:Z:34:LEU:HD12	2:Z:34:LEU:H	1.75	0.52
1:C:29:ILE:HG22	1:C:30:GLU:N	2.24	0.52
1:G:459:ILE:O	1:G:463:LEU:HD13	2.10	0.52
1:K:301:VAL:HG21	1:K:325:LEU:HD11	1.92	0.52
1:K:459:ILE:O	1:K:463:LEU:HD13	2.10	0.52
1:M:162:ILE:HG22	1:M:163:ASN:H	1.74	0.52
1:Q:544:ILE:HG22	1:Q:553:ILE:HG12	1.91	0.52
2:T:39:LEU:H	2:T:39:LEU:HD13	1.75	0.52
1:U:637:GLN:HE21	1:U:641:ASN:HD21	1.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:170:THR:O	1:W:180:GLY:HA2	2.10	0.52
1:W:62:THR:HG21	2:X:34:LEU:HG	1.90	0.52
1:3:257:THR:HG23	1:3:260:SER:HB2	1.92	0.52
1:3:409:LEU:HD21	1:3:632:THR:CG2	2.36	0.52
1:C:266:LEU:O	1:C:270:VAL:HG23	2.10	0.52
1:C:430:ARG:O	1:C:434:LEU:HD13	2.10	0.52
1:C:491:LEU:HB3	1:C:510:VAL:HG13	1.91	0.52
1:E:204:LEU:HD23	1:E:213:TYR:CE2	2.45	0.52
1:E:160:LEU:CD1	1:E:338:ALA:HB2	2.36	0.52
1:E:56:TRP:CZ2	1:E:61:VAL:HG11	2.44	0.52
1:G:506:VAL:O	1:G:510:VAL:HG23	2.10	0.52
1:G:56:TRP:CZ2	1:G:61:VAL:HG11	2.45	0.52
1:O:24:LYS:HD3	1:O:37:THR:HG22	1.91	0.52
1:Q:20:LEU:HD12	1:Q:21:SER:H	1.73	0.52
1:S:20:LEU:HD23	1:S:21:SER:N	2.23	0.52
1:1:577:LEU:HD11	1:1:628:LEU:HD21	1.91	0.52
1:G:301:VAL:HG21	1:G:325:LEU:HD11	1.92	0.52
1:I:157:TYR:HA	1:I:171:GLY:O	2.10	0.52
1:I:184:ARG:HG2	1:I:185:VAL:H	1.73	0.52
1:K:257:THR:HG23	1:K:260:SER:HB2	1.92	0.52
1:M:111:VAL:HG12	1:M:113:SER:H	1.74	0.52
1:M:404:TYR:CD2	1:M:449:LEU:HD22	2.44	0.52
1:O:64:ASP:HB3	2:P:32:THR:HA	1.91	0.52
1:Q:162:ILE:HG22	1:Q:163:ASN:H	1.72	0.52
1:S:429:LEU:HD11	1:S:433:ARG:HH12	1.75	0.52
1:S:577:LEU:HD11	1:S:628:LEU:HD21	1.92	0.52
2:T:130:ARG:HG3	2:T:131:TYR:CE2	2.45	0.52
1:W:68:MET:HE3	1:W:210:PRO:HG2	1.92	0.52
1:W:95:VAL:HG22	1:W:96:SER:N	2.25	0.52
1:Y:73:LYS:HZ3	1:1:79:SER:HB2	1.75	0.52
2:4:42:LEU:HD11	2:4:88:PHE:CZ	2.45	0.52
1:A:524:ARG:HD3	1:A:524:ARG:N	2.25	0.52
1:C:40:TRP:O	1:C:44:MET:HG3	2.09	0.52
1:C:459:ILE:HD13	1:C:494:MET:HE2	1.92	0.52
1:C:64:ASP:HB3	2:D:32:THR:HA	1.92	0.52
1:E:149:TYR:CE2	1:E:208:ARG:HA	2.45	0.52
1:K:59:ALA:HB2	1:K:149:TYR:OH	2.10	0.52
1:K:577:LEU:HD11	1:K:628:LEU:HD21	1.92	0.52
1:U:552:PHE:CE1	1:U:581:PRO:HB3	2.45	0.52
1:W:448:LEU:HD22	1:W:546:PRO:O	2.10	0.52
1:Y:204:LEU:HD23	1:Y:213:TYR:CE2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:301:VAL:HG21	1:Y:325:LEU:HD11	1.91	0.52
1:Y:552:PHE:CE1	1:Y:581:PRO:HB3	2.45	0.52
2:Z:34:LEU:HD22	2:Z:38:HIS:O	2.09	0.52
1:3:100:MET:O	1:3:102:VAL:HG23	2.09	0.51
1:3:167:PHE:CZ	1:3:288:LEU:HD11	2.45	0.51
1:5:356:MET:HG2	1:5:378:LEU:HD11	1.90	0.51
1:C:162:ILE:HG22	1:C:163:ASN:H	1.75	0.51
1:C:522:GLU:HB3	1:C:524:ARG:HH21	1.75	0.51
1:E:82:LEU:O	1:E:219:ALA:HA	2.10	0.51
1:G:170:THR:O	1:G:180:GLY:HA2	2.11	0.51
1:G:368:THR:O	1:G:372:GLN:HB2	2.11	0.51
1:K:286:GLU:O	1:K:290:THR:HG23	2.10	0.51
1:K:506:VAL:O	1:K:510:VAL:HG23	2.10	0.51
1:K:409:LEU:HD22	1:K:631:THR:O	2.10	0.51
1:M:430:ARG:O	1:M:434:LEU:HD13	2.09	0.51
2:N:35:ARG:HB2	2:N:37:GLN:HE21	1.74	0.51
1:O:23:VAL:HG11	2:P:42:LEU:CD2	2.40	0.51
1:O:23:VAL:HG11	2:P:42:LEU:HD21	1.93	0.51
1:O:59:ALA:O	1:O:61:VAL:N	2.43	0.51
1:S:111:VAL:HG22	1:S:354:MET:HB3	1.91	0.51
1:S:482:LEU:HD11	1:S:529:LEU:HD11	1.92	0.51
1:W:356:MET:HG2	1:W:378:LEU:HD11	1.92	0.51
1:Y:651:PHE:CD1	1:Y:671:ALA:HA	2.45	0.51
2:4:81:ASN:O	2:4:85:VAL:HG23	2.09	0.51
1:C:516:ARG:HG3	1:C:516:ARG:HH11	1.76	0.51
1:G:20:LEU:HD23	1:G:21:SER:H	1.74	0.51
1:G:482:LEU:HD11	1:G:529:LEU:HD11	1.92	0.51
1:G:651:PHE:CD1	1:G:671:ALA:HA	2.45	0.51
1:I:27:LEU:CD2	2:J:50:LEU:HD12	2.40	0.51
1:U:393:ILE:HG12	1:U:431:GLU:HG2	1.91	0.51
1:U:577:LEU:HD11	1:U:628:LEU:HD21	1.92	0.51
1:W:204:LEU:HD23	1:W:213:TYR:CE2	2.45	0.51
1:Y:393:ILE:HG12	1:Y:431:GLU:HG2	1.92	0.51
1:Y:99:SER:HB2	1:Y:119:ALA:HA	1.92	0.51
1:A:71:ARG:HH21	1:A:209:GLY:HA3	1.73	0.51
1:C:459:ILE:O	1:C:463:LEU:HD13	2.10	0.51
2:D:40:LEU:HD23	2:D:40:LEU:H	1.76	0.51
1:E:329:LYS:NZ	1:E:344:GLN:NE2	2.58	0.51
1:E:156:SER:CB	1:E:342:GLY:HA3	2.40	0.51
1:G:108:HIS:C	1:G:110:GLY:H	2.14	0.51
1:I:68:MET:CE	1:I:210:PRO:HG2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:184:ARG:HG2	1:K:185:VAL:H	1.76	0.51
1:K:404:TYR:CD2	1:K:449:LEU:HD22	2.46	0.51
1:O:184:ARG:HG2	1:O:185:VAL:H	1.73	0.51
1:Q:637:GLN:HE21	1:Q:641:ASN:HD21	1.57	0.51
1:W:20:LEU:HG	1:W:40:TRP:CZ3	2.45	0.51
1:W:552:PHE:CE1	1:W:581:PRO:HB3	2.45	0.51
1:W:637:GLN:HE21	1:W:641:ASN:HD21	1.59	0.51
1:1:106:LYS:HA	1:1:106:LYS:HE3	1.93	0.51
1:3:149:TYR:CE2	1:3:208:ARG:HA	2.45	0.51
1:3:393:ILE:HB	1:3:439:GLN:NE2	2.25	0.51
1:A:170:THR:O	1:A:180:GLY:HA2	2.10	0.51
1:A:266:LEU:O	1:A:270:VAL:HG23	2.10	0.51
1:C:114:GLY:H	1:C:117:SER:HB2	1.75	0.51
1:E:40:TRP:O	1:E:44:MET:HG3	2.11	0.51
1:I:204:LEU:HD23	1:I:213:TYR:CE2	2.46	0.51
1:K:160:LEU:CD1	1:K:338:ALA:HB2	2.38	0.51
1:O:21:SER:O	1:O:22:GLU:CB	2.56	0.51
1:O:286:GLU:O	1:O:290:THR:HG23	2.10	0.51
1:O:415:THR:HG23	1:O:418:ARG:N	2.24	0.51
2:P:31:VAL:O	2:P:32:THR:HG23	2.10	0.51
1:Q:506:VAL:O	1:Q:510:VAL:HG23	2.10	0.51
1:Y:65:LEU:HB3	2:Z:128:LEU:HD23	1.91	0.51
1:1:86:LEU:HD11	1:1:251:SER:HA	1.92	0.51
1:5:204:LEU:HD23	1:5:213:TYR:CE2	2.46	0.51
1:5:452:ALA:HA	1:5:631:THR:CG2	2.38	0.51
1:5:459:ILE:O	1:5:463:LEU:HD13	2.11	0.51
1:A:506:VAL:O	1:A:510:VAL:HG23	2.10	0.51
1:C:301:VAL:HG21	1:C:325:LEU:HD11	1.93	0.51
1:E:184:ARG:HG2	1:E:185:VAL:N	2.25	0.51
1:E:404:TYR:CD2	1:E:449:LEU:HD22	2.46	0.51
1:I:170:THR:O	1:I:180:GLY:HA2	2.11	0.51
1:K:64:ASP:HB3	2:L:32:THR:HA	1.91	0.51
1:K:82:LEU:HD21	1:K:247:LYS:HE2	1.91	0.51
1:O:157:TYR:HA	1:O:171:GLY:O	2.10	0.51
1:O:184:ARG:HG2	1:O:185:VAL:N	2.26	0.51
1:S:379:ALA:HB1	1:S:392:LEU:HD22	1.92	0.51
1:S:459:ILE:HD13	1:S:494:MET:HE2	1.93	0.51
1:S:552:PHE:CE1	1:S:581:PRO:HB3	2.45	0.51
1:U:111:VAL:C	1:U:113:SER:H	2.14	0.51
1:U:361:MET:HE2	1:U:392:LEU:HA	1.93	0.51
1:U:368:THR:O	1:U:372:GLN:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:111:VAL:C	1:W:112:ILE:HG13	2.30	0.51
1:Y:170:THR:O	1:Y:180:GLY:HA2	2.10	0.51
1:Y:160:LEU:CD1	1:Y:338:ALA:HB2	2.39	0.51
1:Y:130:LEU:HB3	1:Y:343:MET:HE1	1.93	0.51
1:Y:361:MET:HE2	1:Y:392:LEU:HA	1.91	0.51
1:3:459:ILE:O	1:3:463:LEU:HD13	2.10	0.51
1:A:393:ILE:HG12	1:A:431:GLU:HG2	1.92	0.51
2:D:45:ILE:HA	2:D:66:SER:HB3	1.92	0.51
1:C:68:MET:HE3	2:D:81:ASN:HD21	1.76	0.51
1:G:459:ILE:HD13	1:G:494:MET:HE2	1.92	0.51
1:G:551:THR:CG2	1:G:585:ASN:HD21	2.24	0.51
1:I:301:VAL:HG21	1:I:325:LEU:HD11	1.92	0.51
1:I:393:ILE:HG12	1:I:431:GLU:HG2	1.92	0.51
1:I:99:SER:HA	1:I:118:PRO:O	2.10	0.51
1:K:393:ILE:HG12	1:K:431:GLU:HG2	1.93	0.51
1:Q:301:VAL:HG21	1:Q:325:LEU:HD11	1.92	0.51
1:U:91:ASP:HB3	1:U:92:ILE:HD12	1.93	0.51
1:3:526:ALA:HB1	1:3:529:LEU:HD22	1.93	0.51
1:5:92:ILE:HG23	1:5:313:VAL:HA	1.93	0.51
1:A:459:ILE:O	1:A:463:LEU:HD13	2.11	0.51
1:A:57:ARG:NH1	2:B:39:LEU:HD22	2.23	0.51
1:C:148:PHE:CZ	1:C:229:VAL:HG21	2.46	0.51
1:C:149:TYR:CE2	1:C:208:ARG:HA	2.46	0.51
1:C:91:ASP:OD2	1:C:317:TRP:HH2	1.93	0.51
1:C:393:ILE:HB	1:C:439:GLN:NE2	2.26	0.51
1:I:506:VAL:O	1:I:510:VAL:HG23	2.10	0.51
1:I:89:PRO:HG2	1:I:256:MET:H	1.76	0.51
1:M:61:VAL:HG12	2:N:80:ALA:HB1	1.92	0.51
1:Q:361:MET:HE2	1:Q:392:LEU:HA	1.92	0.51
2:R:26:TYR:CD2	2:R:49:TYR:HB3	2.46	0.51
2:V:60:SER:CB	2:V:83:LEU:HG	2.41	0.51
2:Z:52:SER:H	2:Z:55:THR:CG2	2.22	0.51
1:1:56:TRP:CH2	1:1:61:VAL:HG11	2.46	0.51
1:3:186:THR:HG22	1:3:187:GLU:H	1.76	0.51
2:4:60:SER:CB	2:4:83:LEU:HG	2.40	0.51
1:C:170:THR:O	1:C:180:GLY:HA2	2.11	0.51
1:C:614:PHE:HA	1:C:617:PHE:CD2	2.46	0.51
1:I:577:LEU:HD11	1:I:628:LEU:HD21	1.93	0.51
1:O:24:LYS:HB2	1:O:37:THR:HA	1.91	0.51
1:O:160:LEU:CD1	1:O:338:ALA:HB2	2.40	0.51
1:O:506:VAL:O	1:O:510:VAL:HG23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:162:ILE:HG22	1:S:163:ASN:H	1.75	0.51
1:5:75:ILE:HD12	1:5:75:ILE:H	1.76	0.51
1:G:25:LEU:O	1:G:25:LEU:HD12	2.11	0.51
1:G:393:ILE:HG12	1:G:431:GLU:HG2	1.92	0.51
1:G:456:ALA:N	1:G:630:THR:HG22	2.09	0.51
2:H:26:TYR:HH	2:H:49:TYR:HD1	1.57	0.51
1:K:552:PHE:CE1	1:K:581:PRO:HB3	2.45	0.51
1:U:70:ASN:CB	1:U:73:LYS:HE2	2.41	0.51
1:Y:448:LEU:HD22	1:Y:546:PRO:O	2.11	0.51
1:Y:459:ILE:HD13	1:Y:494:MET:HE2	1.93	0.51
1:5:149:TYR:CE2	1:5:208:ARG:HA	2.46	0.51
2:B:40:LEU:HD12	2:B:45:ILE:HG21	1.93	0.51
1:C:160:LEU:CD1	1:C:338:ALA:HB2	2.37	0.51
1:C:551:THR:CG2	1:C:585:ASN:HD21	2.24	0.51
1:G:116:ASN:HA	1:G:371:LYS:HZ2	1.75	0.51
1:G:27:LEU:CD2	2:H:50:LEU:HD12	2.41	0.51
1:K:148:PHE:CZ	1:K:229:VAL:HG21	2.45	0.51
1:K:527:TRP:C	1:K:529:LEU:H	2.14	0.51
1:M:27:LEU:HD21	2:N:111:LEU:CD1	2.40	0.51
1:U:100:MET:HB2	1:U:119:ALA:HA	1.93	0.51
1:W:157:TYR:HA	1:W:171:GLY:O	2.11	0.51
1:W:162:ILE:HG22	1:W:163:ASN:H	1.76	0.51
1:Y:404:TYR:CD2	1:Y:449:LEU:HD22	2.46	0.51
1:1:422:PHE:CD1	1:1:475:PHE:HB2	2.46	0.50
1:C:320:LYS:HA	1:C:377:ARG:CD	2.40	0.50
2:F:81:ASN:O	2:F:85:VAL:HG23	2.12	0.50
1:I:20:LEU:O	1:I:21:SER:CB	2.59	0.50
1:K:63:GLU:HA	2:L:33:GLN:HG3	1.93	0.50
1:M:112:ILE:O	1:M:113:SER:HB3	2.11	0.50
1:M:393:ILE:HG12	1:M:431:GLU:HG2	1.93	0.50
1:U:40:TRP:O	1:U:44:MET:HG3	2.11	0.50
1:1:557:ASP:OD2	1:1:559:GLU:HB2	2.11	0.50
1:3:415:THR:HG23	1:3:418:ARG:N	2.24	0.50
1:3:459:ILE:CG2	1:3:494:MET:HG2	2.41	0.50
1:5:108:HIS:HB2	1:5:112:ILE:HD12	1.93	0.50
1:5:170:THR:O	1:5:180:GLY:HA2	2.11	0.50
1:5:78:THR:HG22	1:5:215:SER:C	2.32	0.50
1:A:71:ARG:NH1	1:A:208:ARG:NH2	2.59	0.50
1:E:459:ILE:HD13	1:E:494:MET:HE2	1.92	0.50
1:I:57:ARG:NH1	2:J:39:LEU:HG	2.26	0.50
2:P:123:LEU:HA	2:P:126:ALA:CB	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:85:VAL:O	2:P:88:PHE:HB3	2.11	0.50
2:T:26:TYR:CG	2:T:27:PRO:HD2	2.47	0.50
1:A:286:GLU:O	1:A:290:THR:HG23	2.11	0.50
2:B:52:SER:H	2:B:55:THR:HG21	1.76	0.50
1:C:404:TYR:CD2	1:C:449:LEU:HD22	2.46	0.50
2:D:85:VAL:O	2:D:88:PHE:HB3	2.11	0.50
1:G:149:TYR:CE2	1:G:208:ARG:HA	2.46	0.50
2:H:81:ASN:O	2:H:85:VAL:HG23	2.12	0.50
1:I:24:LYS:CG	1:I:37:THR:HG22	2.42	0.50
1:M:94:ALA:O	1:M:95:VAL:C	2.50	0.50
1:O:40:TRP:O	1:O:44:MET:HG3	2.12	0.50
1:O:23:VAL:HG23	2:P:46:SER:C	2.31	0.50
1:Q:409:LEU:HD21	1:Q:632:THR:CG2	2.34	0.50
1:S:157:TYR:HA	1:S:171:GLY:O	2.11	0.50
1:U:184:ARG:HG2	1:U:185:VAL:N	2.27	0.50
1:U:459:ILE:CG2	1:U:494:MET:HG2	2.42	0.50
1:W:60:ASN:HB3	1:W:63:GLU:HB2	1.93	0.50
1:Y:129:GLN:CG	1:Y:345:SER:HB2	2.41	0.50
1:Y:459:ILE:CG2	1:Y:494:MET:HG2	2.41	0.50
1:5:157:TYR:HA	1:5:171:GLY:O	2.12	0.50
1:5:95:VAL:HG22	1:5:96:SER:N	2.26	0.50
1:A:316:ARG:HA	1:A:374:TYR:CE1	2.46	0.50
1:E:83:GLY:HA2	1:E:220:GLN:H	1.76	0.50
1:G:23:VAL:CG2	1:G:40:TRP:HE1	2.24	0.50
1:I:160:LEU:CD1	1:I:338:ALA:HB2	2.39	0.50
2:J:60:SER:CB	2:J:83:LEU:HG	2.41	0.50
1:K:316:ARG:HA	1:K:374:TYR:CE1	2.47	0.50
1:O:116:ASN:N	1:O:116:ASN:HD22	2.09	0.50
1:S:551:THR:CG2	1:S:585:ASN:HD21	2.25	0.50
1:S:614:PHE:O	1:S:634:ILE:HD12	2.11	0.50
1:U:100:MET:CB	1:U:119:ALA:HA	2.42	0.50
1:Y:415:THR:HG23	1:Y:418:ARG:N	2.25	0.50
1:Y:577:LEU:HD11	1:Y:628:LEU:HD21	1.94	0.50
2:6:59:PHE:HE2	2:6:130:ARG:HB2	1.75	0.50
1:A:107:VAL:CG2	1:A:350:ARG:HD3	2.39	0.50
1:A:40:TRP:CZ2	2:B:42:LEU:HD12	2.47	0.50
1:E:272:LEU:HD21	1:E:287:THR:HA	1.94	0.50
1:G:336:TYR:C	1:G:338:ALA:H	2.15	0.50
2:H:101:THR:HG23	2:H:105:ARG:CZ	2.42	0.50
1:I:148:PHE:CE2	1:I:229:VAL:HG21	2.47	0.50
1:I:25:LEU:HD12	1:I:25:LEU:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:328:LEU:O	1:I:331:ILE:HG22	2.12	0.50
2:N:35:ARG:H	2:N:37:GLN:HE21	1.58	0.50
1:Q:27:LEU:HD22	2:R:50:LEU:HD12	1.92	0.50
1:S:448:LEU:HD22	1:S:546:PRO:O	2.11	0.50
1:U:149:TYR:CE2	1:U:208:ARG:HA	2.47	0.50
1:W:184:ARG:HG2	1:W:185:VAL:H	1.77	0.50
2:X:42:LEU:HD23	2:X:45:ILE:CD1	2.41	0.50
1:Y:184:ARG:HG2	1:Y:185:VAL:N	2.27	0.50
1:3:70:ASN:N	1:3:70:ASN:ND2	2.60	0.50
1:5:272:LEU:HD21	1:5:287:THR:HA	1.93	0.50
2:B:81:ASN:O	2:B:85:VAL:HG23	2.10	0.50
1:C:24:LYS:CB	1:C:37:THR:HG22	2.42	0.50
1:E:162:ILE:HG22	1:E:163:ASN:H	1.75	0.50
1:G:361:MET:HE2	1:G:392:LEU:HA	1.92	0.50
1:G:383:TYR:CD1	1:G:430:ARG:HD3	2.46	0.50
1:I:107:VAL:HG11	1:I:350:ARG:HB3	1.93	0.50
1:K:23:VAL:HG23	2:L:46:SER:HA	1.93	0.50
1:M:170:THR:O	1:M:180:GLY:HA2	2.12	0.50
1:M:356:MET:HG2	1:M:378:LEU:HD11	1.94	0.50
1:M:529:LEU:HD13	1:M:544:ILE:HD12	1.93	0.50
1:1:162:ILE:HG22	1:1:163:ASN:H	1.75	0.50
1:1:459:ILE:CG2	1:1:494:MET:HG2	2.42	0.50
1:5:459:ILE:CG2	1:5:494:MET:HG2	2.42	0.50
1:C:415:THR:HG23	1:C:418:ARG:N	2.25	0.50
1:M:169:TYR:OH	1:M:292:PHE:HA	2.11	0.50
1:M:40:TRP:O	1:M:44:MET:HG3	2.12	0.50
1:M:637:GLN:HE21	1:M:641:ASN:HD21	1.59	0.50
1:O:75:ILE:HG21	1:O:211:PHE:HE1	1.76	0.50
1:O:356:MET:HG2	1:O:378:LEU:HD11	1.94	0.50
1:S:59:ALA:O	1:S:61:VAL:N	2.45	0.50
2:X:128:LEU:H	2:X:128:LEU:HD12	1.77	0.50
1:Y:149:TYR:CE2	1:Y:208:ARG:HA	2.47	0.50
1:Y:95:VAL:HG22	1:Y:96:SER:N	2.23	0.50
1:1:170:THR:O	1:1:180:GLY:HA2	2.11	0.50
1:3:86:LEU:HB3	1:3:255:THR:HG23	1.94	0.50
1:3:448:LEU:HD22	1:3:546:PRO:O	2.12	0.50
1:A:356:MET:HG2	1:A:378:LEU:HD11	1.93	0.50
1:C:270:VAL:HG13	1:C:516:ARG:HD2	1.93	0.50
1:E:167:PHE:CZ	1:E:288:LEU:HD11	2.47	0.50
1:G:356:MET:HG2	1:G:378:LEU:HD11	1.93	0.50
1:K:482:LEU:HD13	1:K:544:ILE:HG13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:543:MET:HE2	1:M:545:ILE:HG12	1.94	0.50
1:M:614:PHE:HA	1:M:617:PHE:CD2	2.47	0.50
1:M:455:SER:HB2	1:M:630:THR:HB	1.93	0.50
2:N:81:ASN:O	2:N:85:VAL:HG23	2.12	0.50
1:O:156:SER:CB	1:O:342:GLY:HA3	2.42	0.50
1:O:257:THR:HG23	1:O:260:SER:HB2	1.94	0.50
1:S:149:TYR:O	1:S:150:GLN:C	2.50	0.50
1:S:148:PHE:CZ	1:S:229:VAL:HG21	2.47	0.50
1:U:162:ILE:HG22	1:U:163:ASN:H	1.75	0.50
1:5:68:MET:CE	1:5:210:PRO:HG2	2.41	0.50
1:A:184:ARG:HG2	1:A:185:VAL:N	2.27	0.50
1:G:450:SER:HB2	1:G:477:PRO:O	2.12	0.50
1:I:404:TYR:CD2	1:I:449:LEU:HD22	2.46	0.50
1:K:82:LEU:HD21	1:K:247:LYS:HG2	1.94	0.50
1:M:149:TYR:O	1:M:150:GLN:C	2.51	0.50
1:O:336:TYR:C	1:O:338:ALA:H	2.14	0.50
1:Q:614:PHE:O	1:Q:634:ILE:HD12	2.12	0.50
1:S:148:PHE:CE2	1:S:229:VAL:HG21	2.47	0.50
1:U:328:LEU:O	1:U:331:ILE:HG22	2.12	0.50
1:U:564:ALA:O	1:U:581:PRO:HD2	2.12	0.50
1:W:65:LEU:HB3	2:X:128:LEU:HB3	1.94	0.50
1:Y:23:VAL:CG2	1:Y:40:TRP:HE1	2.24	0.50
1:Y:637:GLN:HE21	1:Y:641:ASN:HD21	1.60	0.50
1:5:162:ILE:HG22	1:5:163:ASN:H	1.76	0.49
1:E:455:SER:HB2	1:E:630:THR:HB	1.94	0.49
1:G:204:LEU:HD23	1:G:213:TYR:CE2	2.46	0.49
1:G:328:LEU:O	1:G:331:ILE:HG22	2.12	0.49
1:G:455:SER:O	1:G:459:ILE:HG22	2.12	0.49
1:K:551:THR:CG2	1:K:585:ASN:HD21	2.25	0.49
1:M:148:PHE:CZ	1:M:229:VAL:HG21	2.47	0.49
1:M:551:THR:CG2	1:M:585:ASN:HD21	2.25	0.49
1:M:69:LEU:O	1:M:73:LYS:HG2	2.12	0.49
2:P:32:THR:O	2:P:34:LEU:N	2.45	0.49
1:U:65:LEU:HB3	2:V:128:LEU:HD12	1.94	0.49
1:Y:162:ILE:HG22	1:Y:163:ASN:H	1.75	0.49
1:Y:184:ARG:HG2	1:Y:185:VAL:H	1.76	0.49
1:Y:272:LEU:HD21	1:Y:287:THR:HA	1.94	0.49
2:2:81:ASN:O	2:2:85:VAL:HG23	2.11	0.49
1:3:27:LEU:CG	1:3:28:ASP:H	2.24	0.49
1:5:57:ARG:NH1	2:6:39:LEU:HG	2.27	0.49
1:A:551:THR:CG2	1:A:585:ASN:HD21	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:148:PHE:CE2	1:C:229:VAL:HG21	2.48	0.49
1:E:415:THR:HG23	1:E:418:ARG:N	2.25	0.49
1:E:614:PHE:O	1:E:634:ILE:HD12	2.13	0.49
1:K:148:PHE:CE2	1:K:229:VAL:HG21	2.47	0.49
1:K:82:LEU:O	1:K:219:ALA:HA	2.12	0.49
1:Q:316:ARG:HA	1:Q:374:TYR:HE1	1.78	0.49
1:Q:346:TYR:HB2	1:Q:385:LYS:HD2	1.94	0.49
1:U:272:LEU:HD21	1:U:287:THR:HA	1.94	0.49
1:U:156:SER:HB3	1:U:342:GLY:HA3	1.94	0.49
1:U:56:TRP:CB	2:V:42:LEU:HD11	2.42	0.49
1:W:524:ARG:HA	1:W:527:TRP:CD1	2.47	0.49
1:Y:59:ALA:O	1:Y:61:VAL:N	2.44	0.49
1:1:286:GLU:O	1:1:290:THR:HG23	2.12	0.49
1:3:170:THR:O	1:3:180:GLY:HA2	2.11	0.49
1:3:184:ARG:HG2	1:3:185:VAL:H	1.77	0.49
1:3:290:THR:O	1:3:294:VAL:HG23	2.12	0.49
1:3:404:TYR:CD2	1:3:449:LEU:HD22	2.47	0.49
1:3:70:ASN:C	1:3:72:TYR:H	2.15	0.49
2:4:29:CYS:SG	2:4:30:HIS:N	2.85	0.49
1:A:149:TYR:CE2	1:A:208:ARG:HA	2.48	0.49
1:A:89:PRO:HG2	1:A:256:MET:N	2.26	0.49
1:A:383:TYR:CD1	1:A:430:ARG:HD3	2.47	0.49
1:A:524:ARG:HD3	1:A:524:ARG:H	1.77	0.49
1:E:58:GLU:OE1	1:E:150:GLN:HB2	2.11	0.49
1:E:328:LEU:O	1:E:331:ILE:HG22	2.11	0.49
1:I:184:ARG:HG2	1:I:185:VAL:N	2.26	0.49
1:I:257:THR:HG23	1:I:260:SER:HB2	1.94	0.49
1:M:664:ASN:C	1:M:666:THR:H	2.16	0.49
2:N:52:SER:O	2:N:55:THR:HG22	2.12	0.49
1:O:103:ASP:OD1	1:O:105:SER:HB3	2.12	0.49
1:S:179:MET:HG2	1:S:197:VAL:HG22	1.94	0.49
2:T:52:SER:O	2:T:55:THR:HG22	2.12	0.49
1:U:170:THR:O	1:U:180:GLY:HA2	2.12	0.49
1:U:356:MET:HG2	1:U:378:LEU:HD11	1.93	0.49
1:U:316:ARG:HA	1:U:374:TYR:CE1	2.47	0.49
1:Y:188:LYS:C	1:Y:190:ASP:H	2.16	0.49
1:Y:40:TRP:O	1:Y:44:MET:HG3	2.13	0.49
1:1:76:TYR:HB3	1:1:230:THR:HG23	1.94	0.49
1:3:272:LEU:HD21	1:3:287:THR:HA	1.94	0.49
1:3:169:TYR:OH	1:3:292:PHE:HA	2.12	0.49
1:C:336:TYR:C	1:C:338:ALA:H	2.15	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:34:LEU:HD23	2:D:39:LEU:HA	1.94	0.49
1:E:356:MET:HG2	1:E:378:LEU:HD11	1.94	0.49
2:F:57:ASP:HB2	2:F:130:ARG:HH22	1.78	0.49
1:G:86:LEU:HD22	1:G:255:THR:HG23	1.94	0.49
1:I:103:ASP:OD2	1:I:106:LYS:HB2	2.12	0.49
1:I:415:THR:HG23	1:I:418:ARG:N	2.24	0.49
1:I:459:ILE:CG2	1:I:494:MET:HG2	2.42	0.49
1:I:493:SER:HB3	1:I:626:GLU:HG2	1.95	0.49
2:N:39:LEU:CD1	2:N:39:LEU:H	2.25	0.49
2:N:40:LEU:HB3	2:N:45:ILE:HD11	1.95	0.49
1:O:564:ALA:O	1:O:581:PRO:HD2	2.13	0.49
1:Q:169:TYR:OH	1:Q:292:PHE:HA	2.12	0.49
1:Q:40:TRP:O	1:Q:44:MET:HG3	2.13	0.49
2:T:40:LEU:HD21	2:T:78:ARG:CD	2.28	0.49
1:W:86:LEU:CD1	1:W:251:SER:HA	2.42	0.49
1:W:346:TYR:HB2	1:W:385:LYS:HD2	1.95	0.49
1:Y:157:TYR:HA	1:Y:171:GLY:O	2.12	0.49
1:Y:459:ILE:O	1:Y:463:LEU:HD13	2.11	0.49
1:1:70:ASN:HA	1:1:73:LYS:CG	2.40	0.49
2:2:60:SER:CB	2:2:83:LEU:HG	2.42	0.49
1:5:637:GLN:HE21	1:5:641:ASN:HD21	1.58	0.49
1:A:328:LEU:O	1:A:331:ILE:HG22	2.12	0.49
1:A:429:LEU:HD11	1:A:433:ARG:HH12	1.77	0.49
1:E:144:HIS:HE1	1:E:181:THR:HG21	1.76	0.49
1:I:21:SER:O	1:I:22:GLU:CB	2.59	0.49
1:I:272:LEU:HD21	1:I:287:THR:HA	1.95	0.49
1:I:639:VAL:O	1:I:643:ILE:HG13	2.13	0.49
1:S:459:ILE:O	1:S:463:LEU:HD13	2.11	0.49
1:U:172:ALA:O	1:U:178:LEU:HD12	2.13	0.49
1:U:459:ILE:HG21	1:U:494:MET:HG2	1.95	0.49
1:W:383:TYR:CD1	1:W:430:ARG:HD3	2.48	0.49
1:1:149:TYR:CE2	1:1:208:ARG:HA	2.48	0.49
1:1:20:LEU:N	2:2:43:GLU:O	2.46	0.49
1:1:301:VAL:HG21	1:1:325:LEU:HD11	1.93	0.49
1:1:59:ALA:O	1:1:61:VAL:N	2.46	0.49
1:3:184:ARG:HG2	1:3:185:VAL:N	2.27	0.49
1:3:459:ILE:HG21	1:3:494:MET:HG2	1.95	0.49
1:5:316:ARG:HA	1:5:374:TYR:HE1	1.77	0.49
1:5:328:LEU:O	1:5:331:ILE:HG22	2.12	0.49
2:6:39:LEU:N	2:6:39:LEU:HD22	2.27	0.49
1:A:184:ARG:HG2	1:A:185:VAL:H	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:557:ASP:OD2	1:A:559:GLU:HB2	2.12	0.49
1:A:59:ALA:HB2	1:A:149:TYR:OH	2.13	0.49
1:A:490:LYS:HZ2	1:A:626:GLU:HB3	1.78	0.49
1:A:637:GLN:HE21	1:A:641:ASN:HD21	1.59	0.49
1:C:82:LEU:CD1	1:C:84:ILE:HD11	2.41	0.49
1:E:148:PHE:CE2	1:E:229:VAL:HG21	2.48	0.49
1:E:148:PHE:CZ	1:E:229:VAL:HG21	2.48	0.49
1:E:551:THR:CG2	1:E:585:ASN:HD21	2.25	0.49
1:I:243:VAL:N	1:I:285:THR:HG22	2.19	0.49
1:M:149:TYR:CE2	1:M:208:ARG:HA	2.47	0.49
1:M:257:THR:HG23	1:M:260:SER:HB2	1.95	0.49
1:M:345:SER:OG	1:M:345:SER:O	2.29	0.49
1:S:170:THR:O	1:S:180:GLY:HA2	2.13	0.49
1:U:70:ASN:HA	1:U:73:LYS:CG	2.30	0.49
2:V:34:LEU:HD11	2:V:37:GLN:OE1	2.12	0.49
1:W:104:ALA:O	1:W:107:VAL:HG23	2.13	0.49
1:Y:455:SER:O	1:Y:459:ILE:HG22	2.13	0.49
1:1:409:LEU:HD22	1:1:631:THR:O	2.12	0.49
1:1:429:LEU:HD11	1:1:433:ARG:HH12	1.78	0.49
1:3:24:LYS:O	2:4:47:ASP:HA	2.13	0.49
1:5:346:TYR:HB2	1:5:385:LYS:HD2	1.95	0.49
2:B:52:SER:O	2:B:55:THR:HG22	2.13	0.49
1:E:70:ASN:O	1:E:74:LEU:HB2	2.13	0.49
1:I:149:TYR:CE2	1:I:208:ARG:HA	2.47	0.49
1:I:58:GLU:OE1	1:I:150:GLN:HB2	2.13	0.49
2:L:52:SER:H	2:L:55:THR:HG21	1.77	0.49
1:M:409:LEU:HD11	1:M:632:THR:OG1	2.13	0.49
1:O:328:LEU:O	1:O:331:ILE:HG22	2.12	0.49
1:Q:459:ILE:O	1:Q:463:LEU:HD13	2.13	0.49
2:R:52:SER:H	2:R:55:THR:HG21	1.78	0.49
1:U:71:ARG:NH2	1:U:209:GLY:HA3	2.27	0.49
2:V:128:LEU:HD22	2:V:128:LEU:H	1.77	0.49
1:W:301:VAL:HG21	1:W:325:LEU:HD11	1.94	0.49
1:W:60:ASN:C	1:W:62:THR:H	2.15	0.49
1:W:68:MET:CE	2:X:81:ASN:HD21	2.26	0.49
1:1:86:LEU:CD1	1:1:251:SER:HA	2.42	0.49
2:B:40:LEU:HD12	2:B:45:ILE:CG2	2.43	0.49
1:E:257:THR:HG23	1:E:260:SER:HB2	1.95	0.49
1:E:336:TYR:C	1:E:338:ALA:H	2.15	0.49
1:G:415:THR:HG23	1:G:418:ARG:N	2.25	0.49
2:H:52:SER:H	2:H:55:THR:HG21	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:184:ARG:HG2	1:K:185:VAL:N	2.28	0.49
1:K:82:LEU:CD2	1:K:247:LYS:HE2	2.43	0.49
1:M:272:LEU:HD21	1:M:287:THR:HA	1.94	0.49
1:M:393:ILE:H	1:M:393:ILE:CD1	2.19	0.49
1:M:651:PHE:CD1	1:M:671:ALA:HA	2.48	0.49
1:O:450:SER:HB2	1:O:477:PRO:O	2.13	0.49
1:Q:149:TYR:O	1:Q:150:GLN:C	2.50	0.49
1:Q:459:ILE:CG2	1:Q:494:MET:HG2	2.43	0.49
1:Q:603:GLN:HG2	1:Q:671:ALA:O	2.13	0.49
1:Q:23:VAL:HA	2:R:46:SER:HA	1.95	0.49
1:S:272:LEU:HD21	1:S:287:THR:HA	1.95	0.49
1:S:160:LEU:CD1	1:S:338:ALA:HB2	2.38	0.49
1:W:459:ILE:O	1:W:463:LEU:HD13	2.12	0.49
2:Z:34:LEU:HD12	2:Z:34:LEU:N	2.28	0.49
1:1:149:TYR:O	1:1:150:GLN:C	2.51	0.49
1:1:564:ALA:O	1:1:581:PRO:HD2	2.12	0.49
1:1:603:GLN:HG2	1:1:671:ALA:O	2.13	0.49
1:3:455:SER:O	1:3:459:ILE:HG22	2.12	0.49
1:5:459:ILE:HG21	1:5:494:MET:HG2	1.94	0.49
1:5:564:ALA:O	1:5:581:PRO:HD2	2.13	0.49
2:D:81:ASN:O	2:D:85:VAL:HG23	2.13	0.49
1:E:459:ILE:O	1:E:463:LEU:HD13	2.12	0.49
1:G:273:GLU:HG3	1:G:278:CYS:SG	2.53	0.49
1:I:162:ILE:HG22	1:I:163:ASN:H	1.76	0.49
1:I:188:LYS:HG2	1:I:189:GLY:H	1.78	0.49
1:I:614:PHE:HA	1:I:617:PHE:CD2	2.48	0.49
1:O:614:PHE:HA	1:O:617:PHE:CD2	2.48	0.49
1:Q:149:TYR:CE2	1:Q:208:ARG:HA	2.46	0.49
1:Q:148:PHE:CZ	1:Q:229:VAL:HG21	2.48	0.49
1:Q:577:LEU:HD11	1:Q:628:LEU:HD21	1.94	0.49
1:S:257:THR:HG23	1:S:260:SER:HB2	1.94	0.49
1:U:204:LEU:HD23	1:U:213:TYR:CE2	2.48	0.49
1:U:614:PHE:HA	1:U:617:PHE:CD2	2.47	0.49
1:W:272:LEU:HD21	1:W:287:THR:HA	1.93	0.49
1:W:58:GLU:OE1	1:W:150:GLN:HB2	2.13	0.49
2:X:34:LEU:HB3	2:X:37:GLN:CG	2.41	0.49
1:Y:336:TYR:C	1:Y:338:ALA:H	2.16	0.49
1:Y:343:MET:CE	1:Y:343:MET:HA	2.43	0.49
1:3:529:LEU:HD23	1:3:544:ILE:HD12	1.95	0.49
1:3:564:ALA:O	1:3:581:PRO:HD2	2.12	0.49
2:6:101:THR:HG23	2:6:105:ARG:CZ	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:45:ILE:CD1	2:D:64:LEU:HD13	2.43	0.49
1:G:66:ALA:CB	2:H:128:LEU:HD13	2.43	0.49
1:I:637:GLN:HE21	1:I:641:ASN:HD21	1.59	0.49
2:J:52:SER:H	2:J:55:THR:HG21	1.78	0.49
1:K:144:HIS:HE1	1:K:181:THR:HG21	1.77	0.49
1:K:336:TYR:C	1:K:338:ALA:H	2.16	0.49
1:O:383:TYR:CD1	1:O:430:ARG:HD3	2.48	0.49
1:S:20:LEU:HD21	2:T:43:GLU:OE2	2.12	0.49
1:S:383:TYR:CD1	1:S:430:ARG:HD3	2.48	0.49
2:T:52:SER:H	2:T:55:THR:HG21	1.78	0.49
1:W:86:LEU:HD13	1:W:254:VAL:HB	1.94	0.49
2:X:42:LEU:HD23	2:X:45:ILE:HD11	1.94	0.49
1:1:328:LEU:O	1:1:331:ILE:HG22	2.13	0.48
1:3:162:ILE:HG22	1:3:163:ASN:H	1.78	0.48
1:3:270:VAL:HG13	1:3:516:ARG:HD2	1.94	0.48
1:5:169:TYR:OH	1:5:292:PHE:HA	2.13	0.48
1:5:614:PHE:HA	1:5:617:PHE:CD2	2.48	0.48
2:6:81:ASN:O	2:6:85:VAL:HG23	2.13	0.48
1:A:452:ALA:HA	1:A:631:THR:CG2	2.39	0.48
1:A:523:ASP:HB2	1:A:524:ARG:NH1	2.28	0.48
1:G:272:LEU:HD21	1:G:287:THR:HA	1.95	0.48
1:K:346:TYR:HB2	1:K:385:LYS:HD2	1.95	0.48
1:K:415:THR:HG23	1:K:418:ARG:N	2.24	0.48
1:K:637:GLN:HE21	1:K:641:ASN:HD21	1.61	0.48
2:P:101:THR:HG23	2:P:105:ARG:CZ	2.43	0.48
1:U:301:VAL:HG21	1:U:325:LEU:HD11	1.94	0.48
1:W:68:MET:SD	2:X:81:ASN:ND2	2.86	0.48
1:Y:383:TYR:CD1	1:Y:430:ARG:HD3	2.48	0.48
1:Y:459:ILE:HG21	1:Y:494:MET:HG2	1.95	0.48
1:Y:544:ILE:HG22	1:Y:553:ILE:HG12	1.93	0.48
1:1:272:LEU:HD21	1:1:287:THR:HA	1.95	0.48
1:3:301:VAL:HG21	1:3:325:LEU:HD11	1.94	0.48
1:3:328:LEU:O	1:3:331:ILE:HG22	2.13	0.48
1:5:184:ARG:HG2	1:5:185:VAL:H	1.77	0.48
2:B:101:THR:HG22	2:B:102:GLY:N	2.28	0.48
1:C:356:MET:HG2	1:C:378:LEU:HD11	1.95	0.48
1:C:609:GLN:OE1	1:C:613:ILE:HD11	2.14	0.48
1:E:609:GLN:OE1	1:E:613:ILE:HD11	2.12	0.48
1:E:637:GLN:HE21	1:E:641:ASN:HD21	1.61	0.48
2:F:52:SER:H	2:F:55:THR:HG21	1.77	0.48
2:F:31:VAL:CG1	2:F:79:CYS:HB3	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:148:PHE:CE2	1:G:229:VAL:HG21	2.48	0.48
1:G:577:LEU:HD11	1:G:628:LEU:HD21	1.94	0.48
1:K:328:LEU:O	1:K:331:ILE:HG22	2.13	0.48
1:M:157:TYR:HA	1:M:171:GLY:O	2.14	0.48
1:O:272:LEU:HD21	1:O:287:THR:HA	1.94	0.48
1:S:336:TYR:C	1:S:338:ALA:H	2.16	0.48
1:S:115:LEU:CD1	1:S:359:VAL:HG21	2.43	0.48
1:S:66:ALA:CA	2:T:128:LEU:HD13	2.41	0.48
1:U:450:SER:HB2	1:U:477:PRO:O	2.12	0.48
2:X:33:GLN:O	2:X:34:LEU:HB2	2.12	0.48
1:Y:328:LEU:O	1:Y:331:ILE:HG22	2.14	0.48
1:Y:614:PHE:HA	1:Y:617:PHE:CD2	2.49	0.48
1:1:148:PHE:CZ	1:1:229:VAL:HG21	2.47	0.48
1:1:69:LEU:HD11	2:2:123:LEU:HB3	1.94	0.48
1:3:383:TYR:CD1	1:3:430:ARG:HD3	2.48	0.48
1:A:149:TYR:O	1:A:150:GLN:C	2.51	0.48
1:A:169:TYR:OH	1:A:292:PHE:HA	2.13	0.48
1:A:614:PHE:HA	1:A:617:PHE:CD2	2.48	0.48
1:C:89:PRO:HG2	1:C:256:MET:N	2.28	0.48
1:G:409:LEU:HD21	1:G:632:THR:CG2	2.37	0.48
1:I:346:TYR:HB2	1:I:385:LYS:HD2	1.95	0.48
1:K:383:TYR:CD1	1:K:430:ARG:HD3	2.48	0.48
1:M:557:ASP:OD2	1:M:559:GLU:HB2	2.13	0.48
1:Q:450:SER:HB2	1:Q:477:PRO:O	2.13	0.48
1:S:102:VAL:HG11	1:S:351:LEU:CD1	2.43	0.48
1:S:415:THR:HG23	1:S:418:ARG:N	2.24	0.48
1:S:63:GLU:O	1:S:64:ASP:C	2.51	0.48
1:U:148:PHE:CZ	1:U:229:VAL:HG21	2.48	0.48
2:V:33:GLN:O	2:V:35:ARG:HG3	2.14	0.48
1:Y:242:PHE:CE1	1:Y:288:LEU:HB3	2.49	0.48
1:5:184:ARG:HG2	1:5:185:VAL:N	2.29	0.48
2:6:52:SER:H	2:6:55:THR:HG21	1.79	0.48
1:A:301:VAL:HG21	1:A:325:LEU:HD11	1.96	0.48
1:A:346:TYR:HB2	1:A:385:LYS:HD2	1.94	0.48
1:A:40:TRP:O	1:A:44:MET:HG3	2.13	0.48
1:E:459:ILE:CG2	1:E:494:MET:HG2	2.43	0.48
1:G:148:PHE:CZ	1:G:229:VAL:HG21	2.47	0.48
1:G:40:TRP:O	1:G:44:MET:HG3	2.13	0.48
2:H:60:SER:CB	2:H:83:LEU:HG	2.42	0.48
1:I:270:VAL:HG13	1:I:516:ARG:HD2	1.95	0.48
2:J:81:ASN:O	2:J:85:VAL:HG23	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:149:TYR:CE2	1:K:208:ARG:HA	2.48	0.48
1:K:497:GLN:O	1:K:498:GLU:HG3	2.14	0.48
1:M:75:ILE:HG22	1:M:76:TYR:N	2.28	0.48
1:Q:204:LEU:HD23	1:Q:213:TYR:CE2	2.48	0.48
1:Q:78:THR:HG21	1:Q:217:THR:C	2.33	0.48
1:Q:23:VAL:HG23	1:Q:40:TRP:HE1	1.78	0.48
1:S:186:THR:HG22	1:S:187:GLU:H	1.78	0.48
1:S:614:PHE:HA	1:S:617:PHE:CD2	2.48	0.48
1:U:112:ILE:H	1:U:112:ILE:CD1	2.21	0.48
1:U:64:ASP:HB3	2:V:32:THR:HA	1.95	0.48
1:Y:58:GLU:OE1	1:Y:150:GLN:HB2	2.14	0.48
1:1:266:LEU:O	1:1:270:VAL:HG23	2.14	0.48
1:1:551:THR:CG2	1:1:585:ASN:HD21	2.26	0.48
1:3:79:SER:OG	1:5:69:LEU:HB2	2.12	0.48
1:5:524:ARG:HA	1:5:527:TRP:CD1	2.48	0.48
1:C:188:LYS:HG2	1:C:189:GLY:H	1.79	0.48
1:C:664:ASN:C	1:C:666:THR:H	2.16	0.48
2:D:52:SER:O	2:D:55:THR:HG22	2.13	0.48
2:F:127:ASN:O	2:F:130:ARG:HB2	2.13	0.48
1:K:188:LYS:C	1:K:190:ASP:H	2.16	0.48
1:K:614:PHE:HA	1:K:617:PHE:CD2	2.48	0.48
1:K:86:LEU:CD1	1:K:251:SER:HA	2.44	0.48
1:O:188:LYS:C	1:O:190:ASP:H	2.17	0.48
1:O:490:LYS:HZ2	1:O:626:GLU:HB3	1.77	0.48
1:Q:415:THR:HG23	1:Q:418:ARG:N	2.24	0.48
1:Q:651:PHE:CD1	1:Q:671:ALA:HA	2.48	0.48
1:S:111:VAL:C	1:S:112:ILE:HG13	2.33	0.48
1:S:459:ILE:CG2	1:S:494:MET:HG2	2.44	0.48
2:V:59:PHE:HD2	2:V:131:TYR:HE2	1.61	0.48
1:1:459:ILE:O	1:1:463:LEU:HD13	2.14	0.48
1:3:102:VAL:HG11	1:3:107:VAL:HG13	1.94	0.48
1:3:61:VAL:HG12	2:4:85:VAL:HG22	1.96	0.48
2:4:45:ILE:HD13	2:4:48:ILE:HD11	1.94	0.48
1:5:404:TYR:CD2	1:5:449:LEU:HD22	2.49	0.48
1:5:95:VAL:HG22	1:5:96:SER:H	1.78	0.48
1:A:148:PHE:CE2	1:A:229:VAL:HG21	2.48	0.48
1:A:89:PRO:HD3	1:A:255:THR:HA	1.95	0.48
1:A:26:HIS:N	1:A:26:HIS:CD2	2.82	0.48
1:I:409:LEU:HD21	1:I:632:THR:CG2	2.39	0.48
1:K:149:TYR:O	1:K:150:GLN:C	2.51	0.48
1:M:450:SER:HB2	1:M:477:PRO:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:101:THR:HG23	2:N:105:ARG:CZ	2.44	0.48
1:O:149:TYR:O	1:O:150:GLN:C	2.52	0.48
1:Q:66:ALA:HA	2:R:128:LEU:CD2	2.44	0.48
1:S:586:LYS:O	1:S:586:LYS:HG3	2.13	0.48
1:U:71:ARG:HH22	1:U:209:GLY:HA3	1.79	0.48
1:U:557:ASP:OD2	1:U:559:GLU:HB2	2.13	0.48
2:V:101:THR:HG22	2:V:102:GLY:N	2.28	0.48
1:Y:70:ASN:HA	1:Y:73:LYS:HG2	1.95	0.48
1:1:273:GLU:HG3	1:1:278:CYS:SG	2.54	0.48
1:3:577:LEU:HD11	1:3:628:LEU:HD21	1.94	0.48
1:C:272:LEU:HD21	1:C:287:THR:HA	1.96	0.48
1:G:68:MET:HE3	1:G:210:PRO:HG2	1.96	0.48
1:G:169:TYR:OH	1:G:292:PHE:HA	2.14	0.48
1:I:21:SER:O	1:I:22:GLU:HB2	2.14	0.48
1:I:459:ILE:HG21	1:I:494:MET:HG2	1.96	0.48
2:J:31:VAL:HG12	2:J:32:THR:H	1.77	0.48
1:K:544:ILE:HG22	1:K:553:ILE:HG12	1.96	0.48
1:S:493:SER:HB3	1:S:626:GLU:HG2	1.96	0.48
1:S:455:SER:HB2	1:S:630:THR:CG2	2.44	0.48
1:S:664:ASN:C	1:S:666:THR:H	2.16	0.48
1:U:409:LEU:HD21	1:U:632:THR:CG2	2.40	0.48
1:W:144:HIS:HE1	1:W:181:THR:HG21	1.79	0.48
1:W:148:PHE:CZ	1:W:229:VAL:HG21	2.49	0.48
2:X:60:SER:CB	2:X:83:LEU:HG	2.43	0.48
1:1:346:TYR:HB2	1:1:385:LYS:HD2	1.94	0.48
1:3:551:THR:CG2	1:3:585:ASN:HD21	2.27	0.48
1:3:614:PHE:HA	1:3:617:PHE:CD2	2.49	0.48
1:3:93:PRO:HG2	1:3:314:ASP:HB2	1.94	0.48
2:4:52:SER:O	2:4:55:THR:HG22	2.14	0.48
1:A:186:THR:HG22	1:A:187:GLU:H	1.79	0.48
1:A:272:LEU:HD21	1:A:287:THR:HA	1.95	0.48
1:A:336:TYR:C	1:A:338:ALA:H	2.16	0.48
1:C:59:ALA:O	1:C:61:VAL:N	2.46	0.48
1:E:68:MET:SD	1:E:210:PRO:CG	2.99	0.48
1:G:149:TYR:O	1:G:150:GLN:C	2.52	0.48
1:G:586:LYS:O	1:G:586:LYS:HG3	2.13	0.48
1:I:551:THR:CG2	1:I:585:ASN:HD21	2.27	0.48
1:I:92:ILE:HD11	1:I:304:ALA:HB1	1.95	0.48
1:O:107:VAL:O	1:O:108:HIS:C	2.51	0.48
1:O:156:SER:HB3	1:O:342:GLY:HA3	1.96	0.48
1:O:455:SER:HB2	1:O:630:THR:HB	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:557:ASP:OD2	1:O:559:GLU:HB2	2.13	0.48
1:O:76:TYR:HB3	1:O:230:THR:O	2.14	0.48
1:Q:89:PRO:HG2	1:Q:256:MET:N	2.29	0.48
1:Q:328:LEU:O	1:Q:331:ILE:HG22	2.13	0.48
1:S:609:GLN:OE1	1:S:613:ILE:HD11	2.13	0.48
1:I:80:GLY:HA3	2:T:128:LEU:HD12	1.95	0.48
1:U:149:TYR:O	1:U:150:GLN:C	2.52	0.48
1:W:149:TYR:O	1:W:150:GLN:C	2.52	0.48
1:W:290:THR:O	1:W:294:VAL:HG23	2.14	0.48
1:Y:29:ILE:HD12	1:Y:29:ILE:N	2.29	0.48
1:Y:409:LEU:HD22	1:Y:631:THR:O	2.13	0.48
2:Z:60:SER:CB	2:Z:83:LEU:HG	2.43	0.48
1:1:450:SER:HB2	1:1:477:PRO:O	2.13	0.48
1:1:459:ILE:HG21	1:1:494:MET:HG2	1.96	0.48
1:1:614:PHE:HA	1:1:617:PHE:CD2	2.49	0.48
2:2:52:SER:H	2:2:55:THR:HG21	1.78	0.48
1:3:148:PHE:CE2	1:3:229:VAL:HG21	2.49	0.48
1:3:40:TRP:O	1:3:44:MET:HG3	2.14	0.48
1:3:56:TRP:CH2	1:3:61:VAL:HG11	2.49	0.48
1:5:62:THR:HG22	2:6:32:THR:O	2.13	0.48
1:C:186:THR:HG22	1:C:187:GLU:H	1.78	0.48
1:C:543:MET:HE1	1:C:631:THR:HG21	1.96	0.48
1:G:327:VAL:HG23	1:G:426:HIS:CE1	2.49	0.48
1:I:586:LYS:HG3	1:I:586:LYS:O	2.14	0.48
1:K:459:ILE:CG2	1:K:494:MET:HG2	2.44	0.48
1:K:557:ASP:OD2	1:K:559:GLU:HB2	2.14	0.48
1:M:75:ILE:HA	1:M:231:THR:HA	1.96	0.48
1:M:609:GLN:OE1	1:M:613:ILE:HD11	2.13	0.48
2:N:101:THR:HG22	2:N:102:GLY:N	2.28	0.48
2:N:123:LEU:HA	2:N:126:ALA:HB3	1.94	0.48
1:O:242:PHE:CE1	1:O:288:LEU:HB3	2.49	0.48
1:Q:138:LEU:HD13	1:Q:148:PHE:CB	2.43	0.48
1:Q:257:THR:HG23	1:Q:260:SER:HB2	1.96	0.48
2:R:81:ASN:O	2:R:85:VAL:HG23	2.14	0.48
1:S:149:TYR:CE2	1:S:208:ARG:HA	2.48	0.48
2:T:101:THR:HG22	2:T:102:GLY:N	2.27	0.48
1:U:102:VAL:HG11	1:U:351:LEU:HD13	1.96	0.48
1:W:138:LEU:HD13	1:W:148:PHE:CB	2.44	0.48
1:W:184:ARG:HG2	1:W:185:VAL:N	2.28	0.48
1:W:188:LYS:HG2	1:W:189:GLY:H	1.79	0.48
1:W:459:ILE:CG2	1:W:494:MET:HG2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:39:LEU:N	2:X:39:LEU:HD22	2.28	0.48
2:4:101:THR:HG23	2:4:105:ARG:CZ	2.44	0.48
1:5:186:THR:HG22	1:5:187:GLU:H	1.79	0.48
1:5:415:THR:HG23	1:5:418:ARG:N	2.25	0.48
2:6:42:LEU:HA	2:6:45:ILE:CG2	2.37	0.48
1:A:459:ILE:CG2	1:A:494:MET:HG2	2.44	0.48
1:C:319:ALA:HB1	1:C:378:LEU:HB3	1.96	0.48
1:E:243:VAL:N	1:E:285:THR:HG22	2.20	0.48
1:I:138:LEU:HD13	1:I:148:PHE:CB	2.44	0.48
1:I:186:THR:HG22	1:I:187:GLU:H	1.79	0.48
1:K:554:ILE:HG13	1:K:579:LEU:HD23	1.96	0.48
2:L:60:SER:CB	2:L:83:LEU:HG	2.41	0.48
1:M:138:LEU:HD13	1:M:148:PHE:CB	2.44	0.48
1:M:188:LYS:C	1:M:190:ASP:H	2.17	0.48
1:M:336:TYR:C	1:M:338:ALA:H	2.16	0.48
2:N:39:LEU:HD13	2:N:39:LEU:O	2.14	0.48
2:N:48:ILE:HG12	2:N:64:LEU:HD23	1.95	0.48
1:Q:144:HIS:HE1	1:Q:181:THR:HG21	1.78	0.48
1:Q:186:THR:HG22	1:Q:187:GLU:H	1.79	0.48
1:Q:336:TYR:C	1:Q:338:ALA:H	2.16	0.48
1:S:188:LYS:HG2	1:S:189:GLY:H	1.78	0.48
1:Y:551:THR:CG2	1:Y:585:ASN:HD21	2.27	0.48
1:1:336:TYR:C	1:1:338:ALA:H	2.16	0.47
1:1:482:LEU:HD13	1:1:544:ILE:HG13	1.96	0.47
1:5:188:LYS:C	1:5:190:ASP:H	2.18	0.47
1:5:497:GLN:O	1:5:498:GLU:HG3	2.14	0.47
1:A:148:PHE:CZ	1:A:229:VAL:HG21	2.49	0.47
1:A:160:LEU:CD1	1:A:338:ALA:HB2	2.37	0.47
1:A:24:LYS:HD3	1:A:37:THR:HG22	1.95	0.47
1:A:92:ILE:HD13	1:A:313:VAL:HG12	1.96	0.47
1:A:69:LEU:HD11	2:B:123:LEU:HB3	1.96	0.47
1:C:328:LEU:O	1:C:331:ILE:HG22	2.14	0.47
2:D:33:GLN:O	2:D:35:ARG:N	2.47	0.47
1:E:614:PHE:HA	1:E:617:PHE:CD2	2.49	0.47
1:G:257:THR:HG23	1:G:260:SER:HB2	1.95	0.47
1:I:450:SER:HB2	1:I:477:PRO:O	2.14	0.47
2:L:81:ASN:O	2:L:85:VAL:HG23	2.13	0.47
1:O:148:PHE:CE2	1:O:229:VAL:HG21	2.48	0.47
1:Q:524:ARG:HA	1:Q:527:TRP:CD1	2.49	0.47
1:Q:664:ASN:C	1:Q:666:THR:H	2.18	0.47
1:Q:78:THR:HG21	1:Q:217:THR:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:52:SER:O	2:R:55:THR:HG22	2.14	0.47
1:S:346:TYR:HB2	1:S:385:LYS:HD2	1.95	0.47
1:W:409:LEU:HD21	1:W:632:THR:CG2	2.37	0.47
1:1:21:SER:HB3	1:1:41:THR:CB	2.44	0.47
1:1:148:PHE:CE2	1:1:229:VAL:HG21	2.49	0.47
1:3:157:TYR:HA	1:3:171:GLY:O	2.14	0.47
1:3:651:PHE:CD1	1:3:671:ALA:HA	2.48	0.47
2:4:101:THR:HG22	2:4:102:GLY:N	2.28	0.47
1:5:586:LYS:HG3	1:5:586:LYS:O	2.14	0.47
1:5:634:ILE:HG21	1:5:640:GLN:HB2	1.96	0.47
1:A:482:LEU:HD13	1:A:544:ILE:HG13	1.95	0.47
1:C:346:TYR:HB2	1:C:385:LYS:HD2	1.96	0.47
1:E:188:LYS:C	1:E:190:ASP:H	2.17	0.47
1:E:586:LYS:HG3	1:E:586:LYS:O	2.15	0.47
1:E:639:VAL:O	1:E:643:ILE:HG13	2.14	0.47
1:G:346:TYR:HB2	1:G:385:LYS:HD2	1.95	0.47
1:G:564:ALA:O	1:G:581:PRO:HD2	2.14	0.47
2:H:101:THR:HG22	2:H:102:GLY:N	2.28	0.47
1:K:157:TYR:HA	1:K:171:GLY:O	2.14	0.47
1:K:89:PRO:HG2	1:K:256:MET:H	1.78	0.47
1:K:92:ILE:HD13	1:K:313:VAL:HG12	1.95	0.47
1:M:459:ILE:CG2	1:M:494:MET:HG2	2.44	0.47
1:M:91:ASP:OD1	1:M:317:TRP:HH2	1.96	0.47
1:O:138:LEU:HD13	1:O:148:PHE:CB	2.44	0.47
1:Q:71:ARG:NH2	1:Q:209:GLY:HA3	2.25	0.47
1:Q:99:SER:HA	1:Q:118:PRO:O	2.13	0.47
1:U:336:TYR:C	1:U:338:ALA:H	2.18	0.47
1:W:186:THR:HG22	1:W:187:GLU:H	1.79	0.47
1:Y:65:LEU:HB3	2:Z:128:LEU:CD2	2.44	0.47
1:3:188:LYS:HG2	1:3:189:GLY:H	1.79	0.47
2:4:127:ASN:HD22	2:4:128:LEU:N	2.11	0.47
1:5:336:TYR:C	1:5:338:ALA:H	2.16	0.47
1:5:316:ARG:HA	1:5:374:TYR:CE1	2.50	0.47
1:5:27:LEU:HD21	2:6:114:LEU:HD22	1.96	0.47
1:A:24:LYS:NZ	1:A:24:LYS:HB3	2.30	0.47
2:D:101:THR:HG22	2:D:102:GLY:N	2.29	0.47
1:E:24:LYS:HE3	1:E:37:THR:CG2	2.44	0.47
1:E:301:VAL:HG21	1:E:325:LEU:HD11	1.96	0.47
2:F:101:THR:HG23	2:F:105:ARG:CZ	2.44	0.47
1:G:614:PHE:HA	1:G:617:PHE:CD2	2.49	0.47
1:G:664:ASN:C	1:G:666:THR:H	2.16	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:149:TYR:O	1:I:150:GLN:C	2.52	0.47
1:I:169:TYR:OH	1:I:292:PHE:HA	2.13	0.47
1:I:664:ASN:C	1:I:666:THR:H	2.17	0.47
1:K:272:LEU:HD21	1:K:287:THR:HA	1.95	0.47
1:K:40:TRP:O	1:K:44:MET:HG3	2.15	0.47
2:L:101:THR:HG23	2:L:105:ARG:CZ	2.44	0.47
1:M:270:VAL:HG13	1:M:516:ARG:HD2	1.97	0.47
1:Q:272:LEU:HD21	1:Q:287:THR:HA	1.95	0.47
1:Q:459:ILE:HG21	1:Q:494:MET:HG2	1.96	0.47
1:U:169:TYR:OH	1:U:292:PHE:HA	2.14	0.47
2:V:34:LEU:CD1	2:V:37:GLN:HB3	2.43	0.47
1:W:20:LEU:HG	1:W:40:TRP:CH2	2.50	0.47
1:W:160:LEU:CD1	1:W:338:ALA:HB2	2.38	0.47
1:Y:316:ARG:HA	1:Y:374:TYR:HE1	1.78	0.47
1:1:188:LYS:C	1:1:190:ASP:H	2.18	0.47
1:3:204:LEU:HD23	1:3:213:TYR:CE2	2.49	0.47
1:5:149:TYR:O	1:5:150:GLN:C	2.53	0.47
1:5:614:PHE:O	1:5:634:ILE:HD12	2.15	0.47
1:A:111:VAL:HG21	1:A:358:THR:HG21	1.97	0.47
1:E:149:TYR:O	1:E:150:GLN:C	2.52	0.47
1:E:27:LEU:HD12	1:E:36:TYR:CE2	2.50	0.47
1:I:59:ALA:O	1:I:61:VAL:N	2.47	0.47
1:I:68:MET:SD	1:I:210:PRO:CG	3.00	0.47
2:J:52:SER:O	2:J:55:THR:HG22	2.14	0.47
1:K:290:THR:O	1:K:294:VAL:HG23	2.15	0.47
2:L:101:THR:HG22	2:L:102:GLY:N	2.28	0.47
2:P:52:SER:H	2:P:55:THR:HG21	1.78	0.47
1:S:483:ARG:HD3	1:S:485:ASP:HB3	1.97	0.47
1:U:160:LEU:CD1	1:U:338:ALA:HB2	2.39	0.47
1:W:273:GLU:HG3	1:W:278:CYS:SG	2.55	0.47
1:W:544:ILE:HG22	1:W:553:ILE:HG12	1.96	0.47
1:W:664:ASN:C	1:W:666:THR:H	2.17	0.47
2:X:52:SER:H	2:X:55:THR:HG21	1.79	0.47
1:Y:298:PHE:CE1	1:Y:328:LEU:HD23	2.50	0.47
1:Y:21:SER:HA	1:Y:40:TRP:CH2	2.49	0.47
1:1:78:THR:HG23	1:1:78:THR:O	2.14	0.47
1:3:56:TRP:CZ2	1:3:61:VAL:HG11	2.49	0.47
2:B:85:VAL:O	2:B:88:PHE:HB3	2.14	0.47
1:E:273:GLU:HG3	1:E:278:CYS:SG	2.54	0.47
1:E:524:ARG:HG3	1:E:527:TRP:CH2	2.50	0.47
1:M:586:LYS:HG3	1:M:586:LYS:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:609:GLN:OE1	1:O:613:ILE:HD11	2.14	0.47
1:O:664:ASN:C	1:O:666:THR:H	2.17	0.47
2:P:51:VAL:HG22	2:P:61:LEU:O	2.15	0.47
1:Q:564:ALA:O	1:Q:581:PRO:HD2	2.14	0.47
1:S:156:SER:CB	1:S:342:GLY:HA3	2.44	0.47
2:T:40:LEU:N	2:T:40:LEU:HD12	2.29	0.47
2:V:37:GLN:HG2	2:V:38:HIS:N	2.24	0.47
1:W:188:LYS:C	1:W:190:ASP:H	2.18	0.47
1:W:177:PHE:CZ	1:W:205:PRO:HG3	2.49	0.47
1:W:169:TYR:OH	1:W:292:PHE:HA	2.13	0.47
1:Y:316:ARG:HA	1:Y:374:TYR:CE1	2.49	0.47
1:3:482:LEU:HD11	1:3:529:LEU:HD21	1.95	0.47
1:A:614:PHE:O	1:A:634:ILE:HD12	2.14	0.47
1:E:107:VAL:HB	1:E:354:MET:HE1	1.96	0.47
2:F:52:SER:O	2:F:55:THR:HG22	2.15	0.47
1:G:459:ILE:CG2	1:G:494:MET:HG2	2.45	0.47
1:I:22:GLU:O	1:I:23:VAL:HG23	2.14	0.47
2:J:34:LEU:CD2	2:J:39:LEU:HB3	2.45	0.47
1:M:634:ILE:HG21	1:M:640:GLN:HB2	1.96	0.47
2:N:85:VAL:O	2:N:88:PHE:HB3	2.13	0.47
1:Q:83:GLY:HA2	1:Q:220:GLN:H	1.79	0.47
1:Q:614:PHE:HA	1:Q:617:PHE:CD2	2.49	0.47
1:Q:65:LEU:H	2:R:31:VAL:HG23	1.80	0.47
1:S:301:VAL:HG21	1:S:325:LEU:HD11	1.96	0.47
1:S:156:SER:HB3	1:S:342:GLY:HA3	1.96	0.47
1:S:40:TRP:O	1:S:44:MET:HG3	2.13	0.47
1:U:243:VAL:N	1:U:285:THR:HG22	2.18	0.47
1:Y:557:ASP:OD2	1:Y:559:GLU:HB2	2.15	0.47
2:Z:52:SER:O	2:Z:55:THR:HG22	2.14	0.47
1:1:186:THR:HG22	1:1:187:GLU:H	1.78	0.47
1:1:290:THR:O	1:1:294:VAL:HG23	2.15	0.47
1:3:108:HIS:HB2	1:3:112:ILE:HD11	1.97	0.47
1:3:635:THR:OG1	1:3:639:VAL:HG21	2.14	0.47
1:5:257:THR:HG23	1:5:260:SER:CB	2.44	0.47
1:5:551:THR:CG2	1:5:585:ASN:HD21	2.27	0.47
2:6:34:LEU:HG	2:6:39:LEU:HB3	1.96	0.47
1:A:323:PHE:CZ	1:A:423:ILE:HG23	2.50	0.47
1:A:415:THR:HG23	1:A:418:ARG:N	2.25	0.47
1:C:257:THR:HG23	1:C:260:SER:CB	2.44	0.47
1:E:107:VAL:HB	1:E:354:MET:CE	2.44	0.47
1:E:76:TYR:HD1	1:E:232:PHE:CE1	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:404:TYR:CD2	1:G:449:LEU:HD22	2.49	0.47
1:I:242:PHE:CE1	1:I:288:LEU:HB3	2.50	0.47
1:K:664:ASN:C	1:K:666:THR:H	2.18	0.47
1:M:383:TYR:CD1	1:M:430:ARG:HD3	2.50	0.47
1:M:614:PHE:O	1:M:634:ILE:HD12	2.14	0.47
1:Q:497:GLN:O	1:Q:498:GLU:HG3	2.15	0.47
1:S:290:THR:O	1:S:294:VAL:HG23	2.14	0.47
1:S:450:SER:HB2	1:S:477:PRO:O	2.14	0.47
1:W:257:THR:HG23	1:W:260:SER:CB	2.45	0.47
1:W:78:THR:C	1:W:80:GLY:H	2.18	0.47
2:X:85:VAL:O	2:X:88:PHE:HB3	2.15	0.47
1:Y:148:PHE:CZ	1:Y:229:VAL:HG21	2.49	0.47
1:1:69:LEU:HD12	2:2:128:LEU:HD11	1.96	0.47
1:3:31:GLY:HA2	2:4:24:TRP:CD1	2.50	0.47
1:3:58:GLU:OE1	1:3:150:GLN:HB2	2.15	0.47
1:3:76:TYR:HB2	1:3:230:THR:HG23	1.96	0.47
1:5:138:LEU:HD13	1:5:148:PHE:CB	2.44	0.47
1:5:242:PHE:CE1	1:5:288:LEU:HB3	2.50	0.47
1:5:524:ARG:HG2	1:5:524:ARG:HH11	1.80	0.47
1:5:409:LEU:HD22	1:5:631:THR:O	2.14	0.47
1:A:493:SER:HB3	1:A:626:GLU:HG2	1.97	0.47
2:B:48:ILE:HG12	2:B:64:LEU:HD23	1.97	0.47
1:C:243:VAL:N	1:C:285:THR:HG22	2.20	0.47
2:F:60:SER:CB	2:F:83:LEU:HG	2.42	0.47
1:I:144:HIS:HE1	1:I:181:THR:HG21	1.79	0.47
1:I:68:MET:HE3	1:I:210:PRO:HG2	1.97	0.47
1:K:490:LYS:HZ2	1:K:626:GLU:HB3	1.80	0.47
2:L:52:SER:O	2:L:55:THR:HG22	2.15	0.47
1:M:186:THR:HG22	1:M:187:GLU:H	1.80	0.47
1:M:59:ALA:O	1:M:61:VAL:N	2.48	0.47
1:O:23:VAL:HB	2:P:46:SER:HA	1.97	0.47
1:Q:290:THR:O	1:Q:294:VAL:HG23	2.14	0.47
1:Q:383:TYR:CD1	1:Q:430:ARG:HD3	2.50	0.47
2:R:101:THR:HG23	2:R:105:ARG:CZ	2.44	0.47
1:S:328:LEU:O	1:S:331:ILE:HG22	2.15	0.47
1:U:144:HIS:HE1	1:U:181:THR:HG21	1.80	0.47
1:U:186:THR:HG22	1:U:187:GLU:H	1.79	0.47
1:U:156:SER:CB	1:U:342:GLY:HA3	2.45	0.47
2:V:26:TYR:HB3	2:V:27:PRO:HD2	1.96	0.47
2:V:52:SER:H	2:V:55:THR:HG21	1.78	0.47
1:W:336:TYR:C	1:W:338:ALA:H	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:639:VAL:O	1:W:643:ILE:HG13	2.15	0.47
1:Y:346:TYR:HB2	1:Y:385:LYS:HD2	1.96	0.47
1:1:257:THR:HG23	1:1:260:SER:HB2	1.97	0.47
1:1:40:TRP:O	1:1:44:MET:HG3	2.14	0.47
1:1:27:LEU:CD2	2:2:50:LEU:HD12	2.45	0.47
1:3:148:PHE:CZ	1:3:229:VAL:HG21	2.50	0.47
1:3:115:LEU:CD2	1:3:359:VAL:HB	2.45	0.47
1:3:450:SER:HB2	1:3:477:PRO:O	2.15	0.47
2:6:52:SER:O	2:6:55:THR:HG22	2.15	0.47
1:A:138:LEU:HD13	1:A:148:PHE:CB	2.45	0.47
1:A:188:LYS:C	1:A:190:ASP:H	2.16	0.47
1:A:62:THR:HB	2:B:33:GLN:OE1	2.15	0.47
1:C:169:TYR:OH	1:C:292:PHE:HA	2.15	0.47
1:I:564:ALA:O	1:I:581:PRO:HD2	2.15	0.47
1:K:634:ILE:HG21	1:K:640:GLN:HB2	1.95	0.47
1:K:91:ASP:OD1	1:K:317:TRP:HH2	1.97	0.47
1:M:65:LEU:HD12	2:N:128:LEU:HD11	1.96	0.47
1:O:188:LYS:HG2	1:O:189:GLY:H	1.80	0.47
1:O:455:SER:O	1:O:459:ILE:HG22	2.15	0.47
2:P:52:SER:O	2:P:55:THR:HG22	2.15	0.47
1:Q:455:SER:O	1:Q:459:ILE:HG22	2.15	0.47
1:S:455:SER:O	1:S:459:ILE:HG22	2.15	0.47
1:S:56:TRP:CD2	2:T:42:LEU:HD21	2.50	0.47
1:U:24:LYS:O	2:V:47:ASP:HA	2.14	0.47
1:W:328:LEU:O	1:W:331:ILE:HG22	2.15	0.47
1:W:482:LEU:HD13	1:W:544:ILE:HG13	1.96	0.47
1:Y:257:THR:HG23	1:Y:260:SER:HB2	1.95	0.47
1:3:138:LEU:HD13	1:3:148:PHE:CB	2.45	0.47
1:3:336:TYR:C	1:3:338:ALA:H	2.18	0.47
1:3:557:ASP:OD2	1:3:559:GLU:HB2	2.15	0.47
1:5:448:LEU:HD22	1:5:546:PRO:O	2.15	0.47
2:B:26:TYR:CB	2:B:27:PRO:HD2	2.40	0.47
1:E:450:SER:HB2	1:E:477:PRO:O	2.14	0.47
1:E:527:TRP:C	1:E:529:LEU:H	2.17	0.47
1:G:100:MET:HG2	1:G:112:ILE:HG22	1.97	0.47
1:G:637:GLN:HE21	1:G:641:ASN:HD21	1.63	0.47
1:I:22:GLU:OE1	1:I:22:GLU:HA	2.14	0.47
1:I:356:MET:HG2	1:I:378:LEU:HD11	1.95	0.47
1:K:257:THR:HG23	1:K:260:SER:CB	2.45	0.47
1:K:609:GLN:OE1	1:K:613:ILE:HD11	2.15	0.47
1:M:455:SER:O	1:M:459:ILE:HG22	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:188:LYS:C	1:Q:190:ASP:H	2.18	0.47
1:S:522:GLU:C	1:S:524:ARG:H	2.18	0.47
1:S:557:ASP:OD2	1:S:559:GLU:HB2	2.15	0.47
1:U:188:LYS:C	1:U:190:ASP:H	2.17	0.47
1:W:156:SER:HB3	1:W:342:GLY:HA3	1.97	0.47
1:W:361:MET:HE2	1:W:392:LEU:HA	1.95	0.47
1:W:70:ASN:O	1:W:74:LEU:HG	2.15	0.47
1:Y:144:HIS:HE1	1:Y:181:THR:HG21	1.80	0.47
1:1:138:LEU:HD13	1:1:148:PHE:CB	2.45	0.47
1:1:634:ILE:HG21	1:1:640:GLN:HB2	1.96	0.47
1:1:637:GLN:HE21	1:1:641:ASN:HD21	1.63	0.47
2:2:101:THR:HG22	2:2:102:GLY:N	2.27	0.47
1:3:586:LYS:HG3	1:3:586:LYS:O	2.14	0.47
1:3:68:MET:HE3	1:3:210:PRO:HG2	1.97	0.47
1:5:383:TYR:CD1	1:5:430:ARG:HD3	2.50	0.47
1:5:455:SER:O	1:5:459:ILE:HG22	2.14	0.47
1:A:23:VAL:HG21	1:A:40:TRP:HE1	1.80	0.47
1:A:634:ILE:HG21	1:A:640:GLN:HB2	1.96	0.47
1:C:62:THR:HG21	2:D:34:LEU:H	1.80	0.47
2:F:26:TYR:HB3	2:F:27:PRO:CD	2.42	0.47
1:G:56:TRP:CE2	1:G:61:VAL:HG21	2.50	0.47
1:I:455:SER:O	1:I:459:ILE:HG22	2.14	0.47
2:J:51:VAL:HG22	2:J:61:LEU:O	2.15	0.47
1:O:551:THR:CG2	1:O:585:ASN:HD21	2.28	0.47
1:O:71:ARG:HH22	1:O:209:GLY:CA	2.24	0.47
1:Q:557:ASP:OD2	1:Q:559:GLU:HB2	2.15	0.47
1:Q:586:LYS:HG3	1:Q:586:LYS:O	2.15	0.47
1:S:138:LEU:HD13	1:S:148:PHE:CB	2.44	0.47
1:U:586:LYS:O	1:U:586:LYS:HG3	2.15	0.47
1:U:634:ILE:HG21	1:U:640:GLN:HB2	1.96	0.47
1:U:91:ASP:OD1	1:U:317:TRP:HH2	1.98	0.47
1:W:91:ASP:OD1	1:W:317:TRP:HH2	1.97	0.47
1:W:92:ILE:HD11	1:W:304:ALA:HB1	1.97	0.47
2:X:81:ASN:O	2:X:85:VAL:HG23	2.15	0.47
2:Z:101:THR:HG23	2:Z:105:ARG:CZ	2.44	0.47
1:Y:69:LEU:HD23	2:Z:124:PHE:CD1	2.50	0.47
1:1:664:ASN:C	1:1:666:THR:H	2.18	0.46
1:3:149:TYR:O	1:3:150:GLN:C	2.52	0.46
1:3:188:LYS:C	1:3:190:ASP:H	2.18	0.46
1:3:614:PHE:O	1:3:634:ILE:HD12	2.15	0.46
1:3:664:ASN:C	1:3:666:THR:H	2.18	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:148:PHE:CZ	1:5:229:VAL:HG21	2.51	0.46
1:A:29:ILE:HB	1:A:30:GLU:H	1.50	0.46
2:D:51:VAL:HG22	2:D:61:LEU:O	2.15	0.46
1:E:169:TYR:OH	1:E:292:PHE:HA	2.14	0.46
1:G:186:THR:HG22	1:G:187:GLU:H	1.80	0.46
1:G:614:PHE:O	1:G:634:ILE:HD12	2.14	0.46
1:I:336:TYR:C	1:I:338:ALA:H	2.17	0.46
1:I:634:ILE:HG21	1:I:640:GLN:HB2	1.98	0.46
2:J:101:THR:HG23	2:J:105:ARG:CZ	2.44	0.46
2:L:48:ILE:HG12	2:L:64:LEU:HD23	1.97	0.46
1:M:328:LEU:O	1:M:331:ILE:HG22	2.15	0.46
1:Q:551:THR:CG2	1:Q:585:ASN:HD21	2.28	0.46
1:Q:71:ARG:HH22	1:Q:209:GLY:CA	2.23	0.46
1:S:169:TYR:OH	1:S:292:PHE:HA	2.16	0.46
1:U:346:TYR:HB2	1:U:385:LYS:HD2	1.96	0.46
1:U:544:ILE:HG22	1:U:553:ILE:HG12	1.97	0.46
1:U:551:THR:CG2	1:U:585:ASN:HD21	2.28	0.46
2:V:85:VAL:O	2:V:88:PHE:HB3	2.15	0.46
1:W:577:LEU:HD11	1:W:628:LEU:HD21	1.96	0.46
2:2:45:ILE:HG21	2:2:48:ILE:HD11	1.97	0.46
1:1:27:LEU:HD23	2:2:50:LEU:HD12	1.97	0.46
1:A:204:LEU:HD23	1:A:213:TYR:CE2	2.49	0.46
1:C:149:TYR:O	1:C:150:GLN:C	2.52	0.46
1:C:483:ARG:HD3	1:C:485:ASP:HB3	1.97	0.46
1:G:68:MET:CE	1:G:210:PRO:HG2	2.45	0.46
1:I:383:TYR:CD1	1:I:430:ARG:HD3	2.50	0.46
2:J:85:VAL:O	2:J:88:PHE:HB3	2.15	0.46
1:K:138:LEU:HD13	1:K:148:PHE:CB	2.43	0.46
1:K:143:PRO:HG3	1:K:193:VAL:CG2	2.44	0.46
1:K:24:LYS:HG3	1:K:37:THR:HG22	1.95	0.46
1:K:564:ALA:O	1:K:581:PRO:HD2	2.14	0.46
1:M:242:PHE:CE1	1:M:288:LEU:HB3	2.50	0.46
1:M:329:LYS:HZ3	1:M:344:GLN:HE21	1.63	0.46
1:M:69:LEU:N	1:M:69:LEU:CD2	2.77	0.46
1:Q:273:GLU:HG3	1:Q:278:CYS:SG	2.56	0.46
1:Q:21:SER:HA	1:Q:40:TRP:CH2	2.50	0.46
1:S:111:VAL:HG12	1:S:113:SER:H	1.80	0.46
1:S:540:LYS:O	1:S:555:SER:HB2	2.16	0.46
1:S:24:LYS:O	2:T:47:ASP:HA	2.15	0.46
1:U:415:THR:HG23	1:U:418:ARG:N	2.25	0.46
1:W:450:SER:HB2	1:W:477:PRO:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:130:LEU:O	1:Y:342:GLY:O	2.33	0.46
1:1:614:PHE:O	1:1:634:ILE:HD12	2.16	0.46
1:1:69:LEU:HD21	2:2:123:LEU:HD22	1.97	0.46
2:2:101:THR:HG23	2:2:105:ARG:CZ	2.45	0.46
1:5:27:LEU:HD11	2:6:111:LEU:HD13	1.96	0.46
2:6:130:ARG:HD2	2:6:130:ARG:O	2.14	0.46
1:A:327:VAL:HG23	1:A:426:HIS:CE1	2.51	0.46
1:A:450:SER:HB2	1:A:477:PRO:O	2.14	0.46
1:A:664:ASN:C	1:A:666:THR:H	2.18	0.46
1:C:188:LYS:C	1:C:190:ASP:H	2.18	0.46
1:C:497:GLN:O	1:C:498:GLU:HG3	2.15	0.46
1:C:59:ALA:HB2	1:C:149:TYR:OH	2.15	0.46
2:D:101:THR:HG23	2:D:105:ARG:CZ	2.46	0.46
1:E:557:ASP:OD2	1:E:559:GLU:HB2	2.15	0.46
1:E:664:ASN:C	1:E:666:THR:H	2.18	0.46
1:G:188:LYS:C	1:G:190:ASP:H	2.18	0.46
1:G:433:ARG:CZ	1:G:522:GLU:HG3	2.46	0.46
1:K:455:SER:O	1:K:459:ILE:HG22	2.15	0.46
1:K:651:PHE:CD1	1:K:671:ALA:HA	2.49	0.46
1:K:78:THR:C	1:K:80:GLY:H	2.18	0.46
2:L:85:VAL:O	2:L:88:PHE:HB3	2.16	0.46
1:O:404:TYR:CD2	1:O:449:LEU:HD22	2.50	0.46
1:O:82:LEU:HD22	1:O:247:LYS:HE2	1.97	0.46
1:Q:634:ILE:HG21	1:Q:640:GLN:HB2	1.97	0.46
1:S:111:VAL:HG21	1:S:358:THR:HG21	1.96	0.46
1:S:64:ASP:HB3	2:T:32:THR:HA	1.96	0.46
1:U:664:ASN:C	1:U:666:THR:H	2.18	0.46
1:U:90:VAL:HG13	1:U:90:VAL:O	2.16	0.46
2:V:42:LEU:N	2:V:42:LEU:HD12	2.29	0.46
2:X:101:THR:HG23	2:X:105:ARG:CZ	2.46	0.46
1:Y:21:SER:HB3	1:Y:41:THR:CB	2.36	0.46
1:Y:129:GLN:HG2	1:Y:345:SER:HB2	1.98	0.46
1:Y:664:ASN:C	1:Y:666:THR:H	2.17	0.46
1:1:242:PHE:CE1	1:1:288:LEU:HB3	2.50	0.46
1:1:169:TYR:OH	1:1:292:PHE:HA	2.15	0.46
1:1:516:ARG:HG3	1:1:516:ARG:HH11	1.81	0.46
1:5:424:GLY:O	1:5:428:VAL:HG23	2.16	0.46
1:5:482:LEU:HB3	1:5:544:ILE:HG13	1.97	0.46
1:A:143:PRO:HG3	1:A:193:VAL:CG2	2.46	0.46
1:A:544:ILE:HG22	1:A:553:ILE:HG12	1.97	0.46
2:B:101:THR:HG23	2:B:105:ARG:CZ	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:208:ARG:HG2	1:C:209:GLY:N	2.31	0.46
2:F:37:GLN:HB3	2:F:38:HIS:H	1.46	0.46
1:I:273:GLU:HG3	1:I:278:CYS:SG	2.55	0.46
1:I:459:ILE:HD13	1:I:494:MET:HE2	1.98	0.46
1:O:301:VAL:HB	1:O:343:MET:HE1	1.97	0.46
2:P:34:LEU:O	2:P:36:ALA:N	2.48	0.46
1:Q:188:LYS:HG2	1:Q:189:GLY:H	1.80	0.46
1:S:144:HIS:HE1	1:S:181:THR:HG21	1.81	0.46
1:S:516:ARG:HG3	1:S:516:ARG:HH11	1.81	0.46
2:T:81:ASN:O	2:T:85:VAL:HG23	2.14	0.46
1:W:156:SER:CB	1:W:342:GLY:HA3	2.45	0.46
1:W:497:GLN:O	1:W:498:GLU:HG3	2.16	0.46
1:Y:149:TYR:O	1:Y:150:GLN:C	2.53	0.46
1:Y:186:THR:HG22	1:Y:187:GLU:H	1.80	0.46
1:Y:497:GLN:O	1:Y:498:GLU:HG3	2.15	0.46
1:1:188:LYS:HG2	1:1:189:GLY:H	1.80	0.46
1:1:383:TYR:CD1	1:1:430:ARG:HD3	2.50	0.46
2:2:85:VAL:O	2:2:88:PHE:HB3	2.16	0.46
1:5:557:ASP:OD2	1:5:559:GLU:HB2	2.16	0.46
1:5:664:ASN:C	1:5:666:THR:H	2.17	0.46
1:5:72:TYR:C	1:5:74:LEU:H	2.18	0.46
1:C:557:ASP:OD2	1:C:559:GLU:HB2	2.15	0.46
1:E:455:SER:O	1:E:459:ILE:HG22	2.15	0.46
1:G:188:LYS:HG2	1:G:189:GLY:H	1.81	0.46
1:G:24:LYS:CB	1:G:37:THR:HG22	2.45	0.46
2:H:85:VAL:O	2:H:88:PHE:HB3	2.15	0.46
1:I:173:MET:HB3	1:I:178:LEU:HD13	1.98	0.46
1:I:188:LYS:C	1:I:190:ASP:H	2.19	0.46
1:I:290:THR:O	1:I:294:VAL:HG23	2.16	0.46
1:K:186:THR:HG22	1:K:187:GLU:H	1.80	0.46
1:M:148:PHE:CE2	1:M:229:VAL:HG21	2.51	0.46
1:M:144:HIS:HE1	1:M:181:THR:HG21	1.80	0.46
1:M:564:ALA:O	1:M:581:PRO:HD2	2.16	0.46
1:Q:87:ALA:O	1:Q:255:THR:HG22	2.15	0.46
1:S:111:VAL:HG12	1:S:112:ILE:N	2.29	0.46
1:S:273:GLU:HG2	1:S:519:LEU:HD12	1.98	0.46
1:U:84:ILE:O	1:U:86:LEU:HG	2.15	0.46
1:W:634:ILE:HG21	1:W:640:GLN:HB2	1.98	0.46
1:Y:250:PHE:O	1:Y:254:VAL:HG23	2.16	0.46
1:Y:429:LEU:HD11	1:Y:433:ARG:HH12	1.80	0.46
2:Z:85:VAL:O	2:Z:88:PHE:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:346:TYR:HB2	1:3:385:LYS:HD2	1.98	0.46
2:4:34:LEU:HD22	2:4:39:LEU:HD12	1.97	0.46
1:5:577:LEU:HD11	1:5:628:LEU:HD21	1.98	0.46
2:6:101:THR:HG22	2:6:102:GLY:N	2.28	0.46
1:A:111:VAL:HG12	1:A:112:ILE:N	2.31	0.46
2:B:93:LEU:CB	2:B:108:LEU:HD13	2.46	0.46
1:E:409:LEU:HD11	1:E:632:THR:OG1	2.15	0.46
1:G:157:TYR:HA	1:G:171:GLY:O	2.15	0.46
1:G:609:GLN:OE1	1:G:613:ILE:HD11	2.16	0.46
2:H:52:SER:O	2:H:55:THR:HG22	2.16	0.46
1:I:497:GLN:O	1:I:498:GLU:HG3	2.16	0.46
2:L:51:VAL:HG22	2:L:61:LEU:O	2.15	0.46
1:M:516:ARG:HG3	1:M:516:ARG:HH11	1.81	0.46
1:Q:448:LEU:HD22	1:Q:546:PRO:O	2.15	0.46
1:S:409:LEU:HD11	1:S:632:THR:OG1	2.16	0.46
2:T:30:HIS:CE1	2:T:129:ASN:HD22	2.34	0.46
1:U:455:SER:HB2	1:U:630:THR:HB	1.97	0.46
1:U:635:THR:OG1	1:U:639:VAL:HG21	2.16	0.46
1:W:564:ALA:O	1:W:581:PRO:HD2	2.15	0.46
1:Y:138:LEU:HD13	1:Y:148:PHE:CB	2.45	0.46
1:1:157:TYR:HA	1:1:171:GLY:O	2.16	0.46
1:1:586:LYS:O	1:1:586:LYS:HG3	2.14	0.46
1:3:409:LEU:HD22	1:3:631:THR:O	2.16	0.46
2:B:40:LEU:H	2:B:40:LEU:CD2	2.27	0.46
1:C:459:ILE:CG2	1:C:494:MET:HG2	2.46	0.46
1:E:114:GLY:H	1:E:117:SER:HB2	1.80	0.46
1:E:298:PHE:CE1	1:E:328:LEU:HD23	2.51	0.46
1:E:301:VAL:HB	1:E:343:MET:HE1	1.96	0.46
1:K:493:SER:HB3	1:K:626:GLU:HG2	1.97	0.46
1:M:346:TYR:HB2	1:M:385:LYS:HD2	1.97	0.46
1:O:614:PHE:O	1:O:634:ILE:HD12	2.15	0.46
1:Q:356:MET:HG2	1:Q:378:LEU:HD11	1.96	0.46
2:T:101:THR:HG23	2:T:105:ARG:CZ	2.46	0.46
1:U:257:THR:HG23	1:U:260:SER:CB	2.45	0.46
1:U:78:THR:HG21	1:U:217:THR:O	2.16	0.46
1:W:482:LEU:HD11	1:W:529:LEU:HD11	1.98	0.46
2:X:51:VAL:HG22	2:X:61:LEU:O	2.16	0.46
1:1:497:GLN:O	1:1:498:GLU:HG3	2.16	0.46
1:5:56:TRP:CE2	1:5:61:VAL:HG21	2.50	0.46
1:A:157:TYR:HA	1:A:171:GLY:O	2.15	0.46
1:C:529:LEU:HD23	1:C:530:PRO:HD2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:186:THR:HG22	1:E:187:GLU:H	1.80	0.46
1:E:409:LEU:HD21	1:E:632:THR:CB	2.46	0.46
1:E:497:GLN:O	1:E:498:GLU:HG3	2.15	0.46
1:G:20:LEU:HD12	2:H:43:GLU:OE1	2.16	0.46
1:K:524:ARG:HA	1:K:527:TRP:CE2	2.50	0.46
1:K:70:ASN:O	1:K:74:LEU:HB2	2.16	0.46
1:S:497:GLN:O	1:S:498:GLU:HG3	2.15	0.46
1:U:148:PHE:CE2	1:U:229:VAL:HG21	2.50	0.46
1:U:516:ARG:HG3	1:U:516:ARG:HH11	1.81	0.46
1:W:102:VAL:HG23	1:W:121:MET:HG2	1.97	0.46
1:3:634:ILE:HG21	1:3:640:GLN:HB2	1.98	0.46
1:3:68:MET:CE	1:3:210:PRO:HG2	2.45	0.46
1:5:59:ALA:O	1:5:61:VAL:N	2.49	0.46
1:A:404:TYR:HD2	1:A:449:LEU:HD22	1.81	0.46
1:C:156:SER:HB3	1:C:342:GLY:HA3	1.96	0.46
1:C:634:ILE:HG21	1:C:640:GLN:HB2	1.96	0.46
2:D:45:ILE:HD11	2:D:64:LEU:HD13	1.98	0.46
1:E:383:TYR:CD1	1:E:430:ARG:HD3	2.51	0.46
1:E:543:MET:HE3	1:E:631:THR:HG21	1.98	0.46
1:G:563:SER:OG	1:G:583:ILE:HG22	2.16	0.46
1:I:327:VAL:HG23	1:I:426:HIS:CE1	2.50	0.46
1:M:290:THR:O	1:M:294:VAL:HG23	2.16	0.46
1:O:586:LYS:HG3	1:O:586:LYS:O	2.15	0.46
1:O:89:PRO:HG2	1:O:256:MET:N	2.31	0.46
1:Q:177:PHE:CZ	1:Q:205:PRO:HG3	2.50	0.46
1:Q:56:TRP:CZ2	1:Q:61:VAL:HG11	2.51	0.46
1:S:634:ILE:HG21	1:S:640:GLN:HB2	1.98	0.46
2:T:51:VAL:HG22	2:T:61:LEU:O	2.14	0.46
1:U:316:ARG:HA	1:U:374:TYR:HE1	1.81	0.46
2:Z:128:LEU:HD11	1:1:80:GLY:CA	2.46	0.46
1:3:273:GLU:HG3	1:3:278:CYS:SG	2.56	0.46
1:5:148:PHE:CE2	1:5:229:VAL:HG21	2.51	0.46
1:A:188:LYS:HG2	1:A:189:GLY:H	1.80	0.46
1:A:459:ILE:HG21	1:A:494:MET:HG2	1.98	0.46
1:A:564:ALA:O	1:A:581:PRO:HD2	2.16	0.46
1:E:459:ILE:HG21	1:E:494:MET:HG2	1.97	0.46
1:G:20:LEU:HA	2:H:43:GLU:HA	1.98	0.46
1:I:100:MET:CE	1:I:100:MET:HA	2.46	0.46
1:I:557:ASP:OD2	1:I:559:GLU:HB2	2.15	0.46
1:I:614:PHE:O	1:I:634:ILE:HD12	2.16	0.46
1:I:80:GLY:O	1:I:82:LEU:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:404:TYR:HD2	1:M:449:LEU:HD22	1.81	0.46
1:M:429:LEU:HD11	1:M:433:ARG:HH12	1.81	0.46
1:O:327:VAL:HG23	1:O:426:HIS:CE1	2.50	0.46
1:O:448:LEU:HD22	1:O:546:PRO:O	2.16	0.46
2:R:85:VAL:O	2:R:88:PHE:HB3	2.16	0.46
2:V:52:SER:O	2:V:55:THR:HG22	2.14	0.46
1:W:614:PHE:HA	1:W:617:PHE:CD2	2.50	0.46
1:3:143:PRO:HG3	1:3:193:VAL:CG2	2.47	0.45
2:4:85:VAL:O	2:4:88:PHE:HB3	2.16	0.45
1:C:564:ALA:O	1:C:581:PRO:HD2	2.17	0.45
1:E:21:SER:CB	1:E:41:THR:HB	2.45	0.45
1:G:21:SER:CB	1:G:41:THR:HB	2.46	0.45
1:G:557:ASP:OD2	1:G:559:GLU:HB2	2.15	0.45
1:K:111:VAL:C	1:K:112:ILE:HG13	2.35	0.45
1:K:71:ARG:HG2	1:K:71:ARG:O	2.17	0.45
2:P:128:LEU:O	2:P:129:ASN:HB2	2.16	0.45
1:Q:157:TYR:HA	1:Q:171:GLY:O	2.16	0.45
1:Q:23:VAL:HG22	2:R:45:ILE:O	2.16	0.45
2:T:48:ILE:HG12	2:T:64:LEU:HD23	1.98	0.45
1:U:138:LEU:HD13	1:U:148:PHE:CB	2.44	0.45
2:V:81:ASN:O	2:V:85:VAL:HG23	2.16	0.45
1:W:551:THR:CG2	1:W:585:ASN:HD21	2.29	0.45
2:X:52:SER:O	2:X:55:THR:HG22	2.16	0.45
1:Y:450:SER:HB2	1:Y:477:PRO:O	2.16	0.45
1:Y:552:PHE:CG	1:Y:661:LEU:HD13	2.50	0.45
1:1:156:SER:HB3	1:1:342:GLY:HA3	1.97	0.45
1:5:544:ILE:HG22	1:5:553:ILE:HG12	1.98	0.45
1:C:157:TYR:HA	1:C:171:GLY:O	2.15	0.45
1:C:179:MET:HG2	1:C:197:VAL:HG22	1.97	0.45
1:C:586:LYS:O	1:C:586:LYS:HG3	2.16	0.45
2:D:57:ASP:HB2	2:D:130:ARG:HH12	1.81	0.45
1:G:490:LYS:HZ2	1:G:626:GLU:HB3	1.81	0.45
1:K:459:ILE:HG21	1:K:494:MET:HG2	1.98	0.45
1:K:614:PHE:O	1:K:634:ILE:HD12	2.15	0.45
1:M:143:PRO:HG3	1:M:193:VAL:CG2	2.46	0.45
1:M:99:SER:HA	1:M:118:PRO:O	2.16	0.45
2:P:60:SER:CB	2:P:83:LEU:HG	2.43	0.45
2:R:60:SER:CB	2:R:83:LEU:HG	2.41	0.45
1:S:56:TRP:CE3	2:T:42:LEU:HD21	2.51	0.45
1:U:116:ASN:N	1:U:116:ASN:ND2	2.59	0.45
1:U:614:PHE:O	1:U:634:ILE:HD12	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:415:THR:HG23	1:W:418:ARG:N	2.24	0.45
1:W:586:LYS:HG3	1:W:586:LYS:O	2.16	0.45
1:W:69:LEU:HD21	2:X:123:LEU:HB2	1.98	0.45
1:1:143:PRO:HG3	1:1:193:VAL:CG2	2.45	0.45
1:1:75:ILE:O	1:1:76:TYR:C	2.54	0.45
2:2:45:ILE:HG12	2:2:64:LEU:HD22	1.97	0.45
1:5:92:ILE:N	1:5:92:ILE:HD12	2.32	0.45
1:A:273:GLU:HG3	1:A:278:CYS:SG	2.56	0.45
1:A:290:THR:O	1:A:294:VAL:HG23	2.16	0.45
1:C:138:LEU:HD13	1:C:148:PHE:CB	2.44	0.45
1:C:592:VAL:HG12	1:C:593:ALA:N	2.31	0.45
2:D:60:SER:CB	2:D:83:LEU:HG	2.45	0.45
1:E:290:THR:O	1:E:294:VAL:HG23	2.16	0.45
1:G:77:LYS:HD2	2:V:124:PHE:CD1	2.50	0.45
1:I:317:TRP:HD1	1:I:318:LEU:HD23	1.81	0.45
1:K:592:VAL:HG12	1:K:593:ALA:N	2.32	0.45
1:M:160:LEU:CD1	1:M:338:ALA:HB2	2.39	0.45
1:Q:563:SER:OG	1:Q:583:ILE:HG22	2.17	0.45
1:Q:609:GLN:OE1	1:Q:613:ILE:HD11	2.16	0.45
1:W:23:VAL:O	1:W:23:VAL:HG13	2.17	0.45
1:W:459:ILE:HG21	1:W:494:MET:HG2	1.98	0.45
1:W:554:ILE:HD12	1:W:554:ILE:N	2.31	0.45
2:X:38:HIS:C	2:X:39:LEU:HD13	2.36	0.45
1:Y:483:ARG:HD3	1:Y:485:ASP:HB3	1.97	0.45
1:3:502:ASP:O	1:3:506:VAL:HG23	2.16	0.45
1:5:102:VAL:HG23	1:5:121:MET:HG2	1.98	0.45
1:5:450:SER:HB2	1:5:477:PRO:O	2.15	0.45
2:6:45:ILE:CD1	2:6:64:LEU:HB3	2.45	0.45
2:6:85:VAL:O	2:6:88:PHE:HB3	2.15	0.45
1:C:143:PRO:HG3	1:C:193:VAL:CG2	2.45	0.45
1:C:635:THR:OG1	1:C:639:VAL:HG21	2.16	0.45
2:D:52:SER:H	2:D:55:THR:HG22	1.81	0.45
1:E:177:PHE:CZ	1:E:205:PRO:HG3	2.52	0.45
1:E:564:ALA:O	1:E:581:PRO:HD2	2.16	0.45
1:G:138:LEU:HD13	1:G:148:PHE:CB	2.44	0.45
1:G:543:MET:HE3	1:G:631:THR:HG21	1.98	0.45
1:G:634:ILE:HG21	1:G:640:GLN:HB2	1.99	0.45
1:I:516:ARG:HH11	1:I:516:ARG:HG3	1.81	0.45
1:I:592:VAL:HG12	1:I:593:ALA:N	2.32	0.45
1:K:586:LYS:O	1:K:586:LYS:HG3	2.15	0.45
2:N:51:VAL:HG22	2:N:61:LEU:O	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:327:VAL:HG23	1:S:426:HIS:CE1	2.50	0.45
1:U:112:ILE:O	1:U:113:SER:HB2	2.16	0.45
1:U:455:SER:HB2	1:U:630:THR:CG2	2.47	0.45
2:V:35:ARG:HG2	2:V:35:ARG:HH11	1.80	0.45
1:W:24:LYS:HA	1:W:37:THR:HA	1.99	0.45
1:W:455:SER:O	1:W:459:ILE:HG22	2.16	0.45
1:W:71:ARG:NH2	1:W:209:GLY:HA3	2.31	0.45
1:1:144:HIS:HE1	1:1:181:THR:HG21	1.82	0.45
1:1:204:LEU:HD23	1:1:213:TYR:CE2	2.51	0.45
2:2:51:VAL:HG22	2:2:61:LEU:O	2.16	0.45
1:3:257:THR:HG23	1:3:260:SER:CB	2.47	0.45
1:3:544:ILE:HG22	1:3:553:ILE:HG12	1.98	0.45
1:5:104:ALA:HB3	1:5:125:PRO:HB2	1.97	0.45
1:A:257:THR:HG23	1:A:260:SER:HB2	1.98	0.45
1:C:41:THR:HG23	1:C:42:GLU:N	2.31	0.45
1:C:614:PHE:O	1:C:634:ILE:HD12	2.17	0.45
1:E:157:TYR:HA	1:E:171:GLY:O	2.15	0.45
1:E:516:ARG:HH11	1:E:516:ARG:HG3	1.81	0.45
1:E:544:ILE:HG22	1:E:553:ILE:HG12	1.98	0.45
1:G:242:PHE:CE1	1:G:288:LEU:HB3	2.52	0.45
1:I:554:ILE:HG13	1:I:579:LEU:HD23	1.97	0.45
1:K:188:LYS:HG2	1:K:189:GLY:H	1.82	0.45
1:K:21:SER:HB3	1:K:41:THR:CB	2.38	0.45
1:M:273:GLU:HG3	1:M:278:CYS:SG	2.56	0.45
1:M:329:LYS:NZ	1:M:344:GLN:NE2	2.63	0.45
1:M:493:SER:HB3	1:M:626:GLU:HG2	1.98	0.45
1:M:592:VAL:HG12	1:M:593:ALA:N	2.31	0.45
2:N:29:CYS:O	2:N:61:LEU:HD13	2.16	0.45
2:N:60:SER:CB	2:N:83:LEU:HG	2.43	0.45
1:O:346:TYR:HB2	1:O:385:LYS:HD2	1.98	0.45
1:O:634:ILE:HG21	1:O:640:GLN:HB2	1.99	0.45
1:S:91:ASP:OD2	1:S:317:TRP:HH2	2.00	0.45
2:T:30:HIS:NE2	2:T:129:ASN:HA	2.31	0.45
2:V:101:THR:HG23	2:V:105:ARG:CZ	2.46	0.45
1:W:148:PHE:CE2	1:W:229:VAL:HG21	2.51	0.45
1:Y:356:MET:HG2	1:Y:378:LEU:HD11	1.98	0.45
1:Y:586:LYS:O	1:Y:586:LYS:HG3	2.15	0.45
2:2:24:TRP:O	2:2:25:ALA:HB2	2.17	0.45
1:3:179:MET:HG2	1:3:197:VAL:HG22	1.99	0.45
1:3:497:GLN:O	1:3:498:GLU:HG3	2.17	0.45
1:A:586:LYS:O	1:A:586:LYS:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:639:VAL:O	1:C:643:ILE:HG13	2.17	0.45
2:D:57:ASP:CB	2:D:130:ARG:HH12	2.29	0.45
1:G:429:LEU:HD11	1:G:433:ARG:HH12	1.82	0.45
1:I:50:LEU:HD22	1:I:52:PRO:HD3	1.99	0.45
1:M:415:THR:HG23	1:M:418:ARG:N	2.26	0.45
1:O:66:ALA:CB	2:P:128:LEU:HD23	2.46	0.45
2:R:51:VAL:HG22	2:R:61:LEU:O	2.17	0.45
1:S:70:ASN:HA	1:S:73:LYS:HE2	1.99	0.45
1:U:188:LYS:HG2	1:U:189:GLY:H	1.82	0.45
1:U:242:PHE:CE1	1:U:288:LEU:HB3	2.51	0.45
1:U:41:THR:HG23	1:U:42:GLU:N	2.32	0.45
1:W:568:ALA:HA	1:W:599:ILE:HD12	1.99	0.45
1:Y:188:LYS:HG2	1:Y:189:GLY:H	1.80	0.45
1:Y:273:GLU:HG3	1:Y:278:CYS:SG	2.57	0.45
1:Y:156:SER:CB	1:Y:342:GLY:HA3	2.45	0.45
2:2:52:SER:O	2:2:55:THR:HG22	2.16	0.45
1:5:188:LYS:HG2	1:5:189:GLY:H	1.80	0.45
1:C:273:GLU:HG3	1:C:278:CYS:SG	2.57	0.45
1:E:188:LYS:HG2	1:E:189:GLY:H	1.81	0.45
1:E:70:ASN:CA	1:E:73:LYS:HG2	2.44	0.45
1:G:483:ARG:HD3	1:G:485:ASP:HB3	1.99	0.45
1:M:243:VAL:N	1:M:285:THR:HG22	2.20	0.45
1:O:186:THR:HG22	1:O:187:GLU:H	1.80	0.45
1:O:273:GLU:HG3	1:O:278:CYS:SG	2.56	0.45
1:O:68:MET:SD	1:O:210:PRO:CG	3.01	0.45
1:Q:554:ILE:HD12	1:Q:554:ILE:N	2.31	0.45
2:R:86:VAL:O	2:R:90:ILE:HG13	2.17	0.45
1:S:107:VAL:O	1:S:108:HIS:C	2.54	0.45
1:S:188:LYS:C	1:S:190:ASP:H	2.19	0.45
2:T:85:VAL:O	2:T:88:PHE:HB3	2.16	0.45
1:U:455:SER:O	1:U:459:ILE:HG22	2.17	0.45
1:U:603:GLN:HG2	1:U:671:ALA:O	2.16	0.45
1:W:609:GLN:OE1	1:W:613:ILE:HD11	2.16	0.45
1:1:415:THR:HG23	1:1:418:ARG:N	2.25	0.45
2:2:48:ILE:HG12	2:2:64:LEU:HD23	1.98	0.45
2:4:52:SER:H	2:4:55:THR:HG21	1.81	0.45
1:5:639:VAL:O	1:5:643:ILE:HG13	2.17	0.45
1:C:290:THR:O	1:C:294:VAL:HG23	2.16	0.45
1:E:92:ILE:HG21	1:E:313:VAL:HG12	1.98	0.45
2:F:85:VAL:O	2:F:88:PHE:HB3	2.16	0.45
1:K:242:PHE:CE1	1:K:288:LEU:HB3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:482:LEU:HB3	1:K:544:ILE:CG1	2.47	0.45
1:M:483:ARG:HD3	1:M:485:ASP:HB3	1.98	0.45
1:O:257:THR:HG23	1:O:260:SER:CB	2.47	0.45
1:O:29:ILE:HG22	1:O:30:GLU:N	2.26	0.45
1:O:592:VAL:HG12	1:O:593:ALA:N	2.31	0.45
1:O:651:PHE:CD1	1:O:671:ALA:HA	2.52	0.45
2:P:24:TRP:HZ3	2:P:55:THR:HB	1.82	0.45
2:R:101:THR:HG22	2:R:102:GLY:N	2.27	0.45
1:Y:148:PHE:CE2	1:Y:229:VAL:HG21	2.52	0.45
1:5:66:ALA:CA	2:6:128:LEU:HD13	2.42	0.45
2:6:86:VAL:O	2:6:90:ILE:HG13	2.16	0.45
1:A:62:THR:HG21	2:B:34:LEU:CD2	2.46	0.45
1:C:242:PHE:CE1	1:C:288:LEU:HB3	2.51	0.45
2:F:101:THR:HG22	2:F:102:GLY:N	2.29	0.45
1:I:102:VAL:O	1:I:121:MET:HA	2.17	0.45
1:K:156:SER:CB	1:K:342:GLY:HA3	2.47	0.45
2:L:128:LEU:HD22	2:L:128:LEU:N	2.32	0.45
1:M:497:GLN:O	1:M:498:GLU:HG3	2.16	0.45
1:M:563:SER:OG	1:M:583:ILE:HG22	2.17	0.45
2:N:34:LEU:HD12	2:N:38:HIS:O	2.17	0.45
1:U:85:ALA:O	1:U:86:LEU:HD23	2.16	0.45
1:W:316:ARG:HA	1:W:374:TYR:CE1	2.52	0.45
1:W:68:MET:SD	1:W:210:PRO:HG2	2.57	0.45
1:Y:634:ILE:HG21	1:Y:640:GLN:HB2	1.99	0.45
1:Y:639:VAL:O	1:Y:643:ILE:HG13	2.16	0.45
1:1:455:SER:O	1:1:459:ILE:HG22	2.17	0.45
1:3:99:SER:CB	1:3:119:ALA:HA	2.47	0.45
1:5:144:HIS:HE1	1:5:181:THR:HG21	1.81	0.45
1:5:273:GLU:HG3	1:5:278:CYS:SG	2.57	0.45
1:5:609:GLN:OE1	1:5:613:ILE:HD11	2.17	0.45
1:C:345:SER:O	1:C:345:SER:OG	2.34	0.45
2:D:33:GLN:O	2:D:34:LEU:C	2.55	0.45
1:E:138:LEU:HD13	1:E:148:PHE:CB	2.45	0.45
1:E:27:LEU:HB2	1:E:34:SER:HB2	1.99	0.45
1:K:156:SER:HB3	1:K:342:GLY:HA3	1.99	0.45
1:K:563:SER:OG	1:K:583:ILE:HG22	2.17	0.45
1:M:50:LEU:HD22	1:M:52:PRO:HD3	1.99	0.45
1:M:552:PHE:CG	1:M:661:LEU:HD13	2.52	0.45
1:O:116:ASN:HD22	1:O:117:SER:N	2.14	0.45
1:O:85:ALA:O	1:O:86:LEU:HD23	2.17	0.45
1:Q:148:PHE:CE2	1:Q:229:VAL:HG21	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:37:GLN:HG2	2:R:38:HIS:H	1.82	0.45
1:S:27:LEU:HD23	2:T:50:LEU:HD12	1.98	0.45
1:U:58:GLU:OE1	1:U:150:GLN:HB2	2.16	0.45
1:U:609:GLN:OE1	1:U:613:ILE:HD11	2.16	0.45
1:W:143:PRO:HG3	1:W:193:VAL:CG2	2.47	0.45
1:W:483:ARG:HD3	1:W:485:ASP:HB3	1.98	0.45
1:W:65:LEU:CD2	1:W:65:LEU:H	2.28	0.45
1:1:71:ARG:NH2	1:1:209:GLY:HA3	2.32	0.44
1:C:459:ILE:HG21	1:C:494:MET:HG2	2.00	0.44
1:C:88:GLU:HA	1:C:89:PRO:HD3	1.81	0.44
1:E:635:THR:OG1	1:E:639:VAL:HG21	2.17	0.44
1:G:323:PHE:CZ	1:G:423:ILE:HG23	2.52	0.44
1:K:169:TYR:OH	1:K:292:PHE:HA	2.16	0.44
1:M:188:LYS:HG2	1:M:189:GLY:H	1.82	0.44
1:M:568:ALA:HA	1:M:599:ILE:HD12	1.98	0.44
1:O:129:GLN:OE1	1:O:345:SER:HB2	2.16	0.44
1:O:21:SER:CB	1:O:41:THR:HB	2.41	0.44
2:T:39:LEU:O	2:T:39:LEU:HD13	2.17	0.44
1:U:497:GLN:O	1:U:498:GLU:HG3	2.16	0.44
1:Y:554:ILE:HD12	1:Y:554:ILE:N	2.32	0.44
1:3:609:GLN:OE1	1:3:613:ILE:HD11	2.17	0.44
2:4:93:LEU:CB	2:4:108:LEU:HD13	2.46	0.44
1:C:56:TRP:CG	2:D:42:LEU:HD11	2.51	0.44
1:E:346:TYR:HB2	1:E:385:LYS:HD2	2.00	0.44
1:E:554:ILE:HG13	1:E:579:LEU:HD23	1.99	0.44
1:G:179:MET:HG2	1:G:197:VAL:HG22	1.99	0.44
1:G:144:HIS:HE1	1:G:181:THR:HG21	1.82	0.44
1:G:433:ARG:NH2	1:G:522:GLU:HG3	2.32	0.44
1:G:57:ARG:HH11	2:H:39:LEU:HD23	1.81	0.44
1:I:316:ARG:HA	1:I:374:TYR:HE1	1.81	0.44
1:I:84:ILE:O	1:I:86:LEU:HG	2.18	0.44
1:K:483:ARG:HD3	1:K:485:ASP:HB3	1.98	0.44
1:K:568:ALA:HA	1:K:599:ILE:HD12	1.99	0.44
1:O:204:LEU:HD23	1:O:213:TYR:CD2	2.52	0.44
1:O:459:ILE:CG2	1:O:494:MET:HG2	2.48	0.44
1:O:516:ARG:HH11	1:O:516:ARG:HG3	1.81	0.44
1:Q:488:ARG:NH1	1:Q:492:LEU:HD12	2.32	0.44
1:S:86:LEU:HB3	1:S:255:THR:HG23	1.98	0.44
1:S:564:ALA:O	1:S:581:PRO:HD2	2.17	0.44
1:Y:169:TYR:OH	1:Y:292:PHE:HA	2.17	0.44
1:1:173:MET:HB3	1:1:178:LEU:HD13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:544:ILE:HG22	1:1:553:ILE:HG12	2.00	0.44
1:1:61:VAL:HG12	2:2:85:VAL:HG22	1.98	0.44
1:A:497:GLN:O	1:A:498:GLU:HG3	2.17	0.44
1:C:144:HIS:HE1	1:C:181:THR:HG21	1.82	0.44
2:F:51:VAL:HG22	2:F:61:LEU:O	2.18	0.44
1:G:143:PRO:HG3	1:G:193:VAL:CG2	2.45	0.44
1:I:257:THR:HG23	1:I:260:SER:CB	2.46	0.44
1:I:27:LEU:HD21	2:J:111:LEU:CD1	2.48	0.44
1:M:483:ARG:NH1	1:M:483:ARG:HG3	2.32	0.44
1:M:70:ASN:HA	1:M:73:LYS:CG	2.47	0.44
1:O:149:TYR:CE2	1:O:208:ARG:HA	2.52	0.44
1:O:482:LEU:HD11	1:O:529:LEU:HD11	1.98	0.44
1:O:92:ILE:HD13	1:O:313:VAL:CG1	2.48	0.44
1:Q:404:TYR:HD2	1:Q:449:LEU:HD22	1.81	0.44
1:S:177:PHE:CZ	1:S:205:PRO:HG3	2.52	0.44
1:S:459:ILE:HG21	1:S:494:MET:HG2	1.99	0.44
1:W:572:TYR:HB2	1:W:624:GLU:O	2.18	0.44
1:W:64:ASP:HA	2:X:31:VAL:HB	2.00	0.44
1:W:67:SER:HA	1:W:70:ASN:ND2	2.32	0.44
1:Y:73:LYS:NZ	1:1:76:TYR:HE1	2.16	0.44
2:2:86:VAL:O	2:2:90:ILE:HG13	2.18	0.44
1:3:64:ASP:HB3	2:4:32:THR:HA	2.00	0.44
1:5:143:PRO:HG3	1:5:193:VAL:CG2	2.46	0.44
2:6:34:LEU:HG	2:6:39:LEU:CA	2.48	0.44
1:A:448:LEU:HD22	1:A:546:PRO:O	2.17	0.44
1:C:156:SER:CB	1:C:342:GLY:HA3	2.47	0.44
1:C:450:SER:HB2	1:C:477:PRO:O	2.17	0.44
2:D:130:ARG:O	2:D:130:ARG:HD2	2.17	0.44
2:F:48:ILE:HG12	2:F:64:LEU:HD23	1.99	0.44
2:F:45:ILE:CD1	2:F:64:LEU:HD13	2.47	0.44
1:G:497:GLN:O	1:G:498:GLU:HG3	2.18	0.44
2:H:93:LEU:CB	2:H:108:LEU:HD13	2.47	0.44
2:H:51:VAL:HG22	2:H:61:LEU:O	2.17	0.44
1:I:568:ALA:HA	1:I:599:ILE:HD12	2.00	0.44
1:I:62:THR:HG21	2:J:34:LEU:CD2	2.42	0.44
1:K:450:SER:HB2	1:K:477:PRO:O	2.17	0.44
1:K:482:LEU:HB3	1:K:544:ILE:HG13	1.99	0.44
2:L:26:TYR:CZ	2:L:49:TYR:HB3	2.52	0.44
1:M:103:ASP:OD2	1:M:105:SER:HB3	2.17	0.44
1:M:204:LEU:HD23	1:M:213:TYR:CE2	2.52	0.44
1:M:409:LEU:HD21	1:M:632:THR:CB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:419:GLU:O	1:M:423:ILE:HG13	2.17	0.44
1:S:531:ALA:HB2	1:S:551:THR:OG1	2.18	0.44
1:U:428:VAL:HG21	1:U:446:TYR:CE1	2.53	0.44
1:W:456:ALA:N	1:W:630:THR:HG22	2.15	0.44
1:Y:257:THR:HG23	1:Y:260:SER:CB	2.47	0.44
1:5:524:ARG:HG2	1:5:524:ARG:NH1	2.32	0.44
1:A:208:ARG:HG2	1:A:209:GLY:N	2.33	0.44
1:A:609:GLN:OE1	1:A:613:ILE:HD11	2.17	0.44
1:E:280:GLU:N	1:E:281:PRO:CD	2.81	0.44
1:E:634:ILE:HG21	1:E:640:GLN:HB2	1.98	0.44
1:E:68:MET:HG3	1:E:69:LEU:N	2.32	0.44
1:G:320:LYS:HA	1:G:377:ARG:CD	2.44	0.44
1:I:482:LEU:HD13	1:I:544:ILE:HG13	1.99	0.44
1:K:635:THR:OG1	1:K:639:VAL:HG21	2.18	0.44
1:M:208:ARG:HG2	1:M:209:GLY:N	2.33	0.44
2:N:103:HIS:C	2:N:105:ARG:H	2.21	0.44
1:M:20:LEU:N	2:N:43:GLU:O	2.51	0.44
1:O:177:PHE:CZ	1:O:205:PRO:HG3	2.53	0.44
2:P:103:HIS:C	2:P:105:ARG:H	2.21	0.44
1:Q:104:ALA:HB2	1:Q:121:MET:CE	2.48	0.44
1:U:130:LEU:HD22	1:U:343:MET:O	2.17	0.44
1:U:298:PHE:CE1	1:U:328:LEU:HD23	2.53	0.44
1:Y:177:PHE:CZ	1:Y:205:PRO:HG3	2.52	0.44
1:Y:341:LYS:HB2	1:Y:341:LYS:HE3	1.84	0.44
1:1:482:LEU:HB3	1:1:544:ILE:CG1	2.47	0.44
1:1:455:SER:HB2	1:1:630:THR:HB	2.00	0.44
1:1:84:ILE:HD13	1:1:84:ILE:N	2.31	0.44
1:3:242:PHE:CE1	1:3:288:LEU:HB3	2.53	0.44
1:5:138:LEU:HD12	1:5:149:TYR:O	2.17	0.44
1:5:298:PHE:CE1	1:5:328:LEU:HD23	2.53	0.44
1:5:50:LEU:HD22	1:5:52:PRO:HD3	2.00	0.44
1:A:516:ARG:HG3	1:A:516:ARG:HH11	1.82	0.44
1:A:433:ARG:NH2	1:A:522:GLU:HG3	2.32	0.44
1:A:62:THR:HG21	2:B:34:LEU:HD22	1.99	0.44
1:G:243:VAL:N	1:G:285:THR:HG22	2.20	0.44
1:G:23:VAL:HG21	1:G:40:TRP:HE1	1.82	0.44
1:I:429:LEU:HD11	1:I:433:ARG:HH12	1.82	0.44
1:I:609:GLN:OE1	1:I:613:ILE:HD11	2.16	0.44
2:J:68:LYS:HG2	2:J:69:ASN:N	2.33	0.44
1:K:273:GLU:HG3	1:K:278:CYS:SG	2.58	0.44
1:K:455:SER:HB2	1:K:630:THR:HB	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:92:ILE:HD11	1:M:304:ALA:HB1	1.98	0.44
1:O:143:PRO:HG3	1:O:193:VAL:CG2	2.48	0.44
2:T:103:HIS:C	2:T:105:ARG:H	2.21	0.44
1:U:116:ASN:HD22	1:U:116:ASN:N	2.14	0.44
1:W:242:PHE:CE1	1:W:288:LEU:HB3	2.51	0.44
1:W:557:ASP:OD2	1:W:559:GLU:HB2	2.18	0.44
1:Y:56:TRP:CZ2	1:Y:61:VAL:HG11	2.53	0.44
1:Y:61:VAL:HG11	2:Z:64:LEU:HD11	2.00	0.44
1:Y:456:ALA:N	1:Y:630:THR:HG22	2.22	0.44
1:1:70:ASN:C	1:1:72:TYR:H	2.21	0.44
1:A:115:LEU:HD22	1:A:359:VAL:CG2	2.48	0.44
1:A:424:GLY:O	1:A:428:VAL:HG23	2.18	0.44
1:A:625:LYS:HE2	1:A:655:HIS:CE1	2.53	0.44
1:C:204:LEU:HD23	1:C:213:TYR:CD2	2.52	0.44
1:G:290:THR:O	1:G:294:VAL:HG23	2.17	0.44
1:G:554:ILE:N	1:G:554:ILE:HD12	2.33	0.44
1:I:108:HIS:O	1:I:354:MET:HE1	2.18	0.44
1:I:111:VAL:CG1	1:I:358:THR:HG21	2.40	0.44
2:J:32:THR:O	2:J:34:LEU:N	2.51	0.44
2:J:40:LEU:N	2:J:40:LEU:CD2	2.81	0.44
1:O:100:MET:HB3	1:O:101:GLN:H	1.60	0.44
1:Q:242:PHE:CE1	1:Q:288:LEU:HB3	2.53	0.44
1:S:242:PHE:CE1	1:S:288:LEU:HB3	2.52	0.44
2:T:39:LEU:CD1	2:T:39:LEU:N	2.80	0.44
2:T:68:LYS:HG2	2:T:69:ASN:N	2.33	0.44
1:U:64:ASP:HA	2:V:31:VAL:CG2	2.48	0.44
1:W:65:LEU:CD2	2:X:31:VAL:HG23	2.41	0.44
1:Y:563:SER:OG	1:Y:583:ILE:HG22	2.18	0.44
1:3:102:VAL:CG1	1:3:107:VAL:HG13	2.47	0.44
1:3:483:ARG:HD3	1:3:485:ASP:HB3	2.00	0.44
1:3:56:TRP:HB2	2:4:42:LEU:HD11	2.00	0.44
1:5:130:LEU:HD23	1:5:345:SER:HB2	2.00	0.44
1:A:483:ARG:HD3	1:A:485:ASP:HB3	1.99	0.44
1:C:345:SER:C	1:C:347:GLY:N	2.71	0.44
1:C:409:LEU:HD22	1:C:631:THR:O	2.18	0.44
2:D:35:ARG:O	2:D:37:GLN:N	2.51	0.44
1:G:78:THR:C	1:G:80:GLY:H	2.20	0.44
1:M:41:THR:HG23	1:M:42:GLU:N	2.33	0.44
1:M:327:VAL:HG23	1:M:426:HIS:CE1	2.53	0.44
1:O:497:GLN:O	1:O:498:GLU:HG3	2.17	0.44
1:O:568:ALA:HA	1:O:599:ILE:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:57:ARG:HH11	2:P:39:LEU:HG	1.81	0.44
2:R:130:ARG:HG3	2:R:131:TYR:CE2	2.53	0.44
2:T:60:SER:CB	2:T:83:LEU:HG	2.44	0.44
1:U:383:TYR:CD1	1:U:430:ARG:HD3	2.53	0.44
1:W:138:LEU:HD12	1:W:149:TYR:O	2.18	0.44
2:X:101:THR:HG22	2:X:102:GLY:N	2.28	0.44
1:3:102:VAL:HG22	1:3:112:ILE:HG21	1.99	0.44
1:3:99:SER:HB2	1:3:119:ALA:HA	1.98	0.44
1:3:25:LEU:C	1:3:25:LEU:HD12	2.38	0.44
1:3:280:GLU:N	1:3:281:PRO:CD	2.81	0.44
2:D:24:TRP:O	2:D:25:ALA:CB	2.64	0.44
1:E:20:LEU:HD12	1:E:40:TRP:CH2	2.52	0.44
1:E:50:LEU:HD22	1:E:52:PRO:HD3	2.00	0.44
1:E:625:LYS:HE2	1:E:655:HIS:CE1	2.53	0.44
1:G:41:THR:HG23	1:G:42:GLU:N	2.33	0.44
1:G:69:LEU:O	1:G:73:LYS:HG2	2.17	0.44
1:M:459:ILE:HG21	1:M:494:MET:HG2	2.00	0.44
1:M:635:THR:OG1	1:M:639:VAL:HG21	2.17	0.44
1:O:50:LEU:HD22	1:O:52:PRO:HD3	2.00	0.44
1:S:50:LEU:HD22	1:S:52:PRO:HD3	2.00	0.44
1:S:554:ILE:HG13	1:S:579:LEU:HD23	1.99	0.44
1:S:27:LEU:HD22	2:T:114:LEU:HD22	1.99	0.44
1:U:531:ALA:HB2	1:U:551:THR:OG1	2.18	0.44
1:W:27:LEU:HD22	2:X:50:LEU:HD12	2.00	0.44
2:X:68:LYS:HG2	2:X:69:ASN:N	2.33	0.44
1:Y:138:LEU:HD12	1:Y:149:TYR:O	2.18	0.44
1:Y:50:LEU:HD22	1:Y:52:PRO:HD3	2.00	0.44
1:Y:564:ALA:O	1:Y:581:PRO:HD2	2.18	0.44
1:1:100:MET:O	1:1:101:GLN:HG3	2.18	0.43
1:1:192:HIS:HA	1:1:234:HIS:CE1	2.53	0.43
1:1:409:LEU:HD11	1:1:632:THR:OG1	2.18	0.43
1:A:156:SER:HB3	1:A:342:GLY:HA3	2.00	0.43
2:B:68:LYS:HG2	2:B:69:ASN:N	2.33	0.43
1:C:78:THR:HG21	1:C:217:THR:C	2.38	0.43
2:F:68:LYS:HG2	2:F:69:ASN:N	2.33	0.43
1:G:76:TYR:HB3	1:G:230:THR:HG23	1.99	0.43
1:G:257:THR:HG23	1:G:260:SER:CB	2.48	0.43
1:G:273:GLU:HG2	1:G:519:LEU:HD12	2.00	0.43
1:G:545:ILE:HD12	1:G:661:LEU:CD1	2.48	0.43
1:I:61:VAL:CG1	2:J:85:VAL:HG22	2.48	0.43
1:M:533:LYS:HG3	1:M:533:LYS:H	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:208:ARG:HG2	1:O:209:GLY:N	2.33	0.43
1:O:429:LEU:HD11	1:O:433:ARG:HH12	1.81	0.43
1:O:639:VAL:O	1:O:643:ILE:HG13	2.18	0.43
1:O:552:PHE:CG	1:O:661:LEU:HD13	2.53	0.43
1:Q:73:LYS:C	1:Q:75:ILE:H	2.22	0.43
1:U:376:LEU:O	1:U:379:ALA:HB3	2.18	0.43
1:U:424:GLY:O	1:U:428:VAL:HG23	2.18	0.43
1:U:625:LYS:HE2	1:U:655:HIS:CE1	2.53	0.43
1:U:651:PHE:CD1	1:U:671:ALA:HA	2.53	0.43
1:W:50:LEU:HD22	1:W:52:PRO:HD3	1.99	0.43
1:A:112:ILE:O	1:A:112:ILE:HG22	2.18	0.43
1:A:41:THR:HG23	1:A:42:GLU:N	2.34	0.43
1:C:383:TYR:CD1	1:C:430:ARG:HD3	2.53	0.43
1:K:639:VAL:O	1:K:643:ILE:HG13	2.18	0.43
2:L:93:LEU:CB	2:L:108:LEU:HD13	2.46	0.43
1:O:554:ILE:N	1:O:554:ILE:HD12	2.33	0.43
1:Q:21:SER:HA	1:Q:40:TRP:CZ2	2.52	0.43
1:S:143:PRO:HG3	1:S:193:VAL:CG2	2.44	0.43
1:S:208:ARG:HG2	1:S:209:GLY:N	2.33	0.43
1:S:257:THR:HG23	1:S:260:SER:CB	2.48	0.43
1:S:273:GLU:HG3	1:S:278:CYS:SG	2.58	0.43
1:S:404:TYR:HD2	1:S:449:LEU:HD22	1.84	0.43
1:U:183:LYS:HE3	1:U:191:GLU:OE1	2.18	0.43
1:U:592:VAL:HG12	1:U:593:ALA:N	2.33	0.43
2:V:51:VAL:HG22	2:V:61:LEU:O	2.18	0.43
1:W:538:LEU:H	1:W:538:LEU:CD2	2.30	0.43
1:W:78:THR:HG21	1:W:217:THR:O	2.19	0.43
1:Y:23:VAL:HG22	2:Z:45:ILE:O	2.17	0.43
1:Y:41:THR:HG23	1:Y:42:GLU:N	2.34	0.43
1:Y:516:ARG:HG3	1:Y:516:ARG:HH11	1.82	0.43
1:Y:614:PHE:O	1:Y:634:ILE:HD12	2.17	0.43
1:1:625:LYS:HE2	1:1:655:HIS:CE1	2.53	0.43
1:1:635:THR:OG1	1:1:639:VAL:HG21	2.19	0.43
1:3:144:HIS:HE1	1:3:181:THR:HG21	1.82	0.43
1:3:50:LEU:HD22	1:3:52:PRO:HD3	2.01	0.43
2:6:39:LEU:N	2:6:39:LEU:HD13	2.26	0.43
2:6:26:TYR:CG	2:6:49:TYR:HB3	2.54	0.43
1:A:50:LEU:HD22	1:A:52:PRO:HD3	2.00	0.43
1:C:177:PHE:CZ	1:C:205:PRO:HG3	2.53	0.43
1:C:563:SER:OG	1:C:583:ILE:HG22	2.18	0.43
1:E:41:THR:HG23	1:E:42:GLU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:376:LEU:O	1:G:379:ALA:HB3	2.19	0.43
1:G:21:SER:CA	1:G:41:THR:HB	2.47	0.43
1:G:544:ILE:HG22	1:G:553:ILE:HG12	1.99	0.43
1:K:23:VAL:HG12	1:K:38:ILE:O	2.19	0.43
1:O:144:HIS:HE1	1:O:181:THR:HG21	1.82	0.43
1:O:290:THR:O	1:O:294:VAL:HG23	2.18	0.43
1:O:543:MET:HE2	1:O:545:ILE:HG12	2.00	0.43
2:P:93:LEU:CB	2:P:108:LEU:HD13	2.44	0.43
2:P:48:ILE:HG12	2:P:64:LEU:HD23	1.99	0.43
1:Q:516:ARG:HG3	1:Q:516:ARG:HH11	1.83	0.43
1:Q:493:SER:HB3	1:Q:626:GLU:HG2	1.99	0.43
2:R:48:ILE:HG12	2:R:64:LEU:HD23	2.01	0.43
2:R:68:LYS:HG2	2:R:69:ASN:N	2.33	0.43
1:S:94:ALA:O	1:S:95:VAL:C	2.56	0.43
1:U:568:ALA:HA	1:U:599:ILE:HD12	2.00	0.43
1:U:552:PHE:CG	1:U:661:LEU:HD13	2.54	0.43
1:Y:280:GLU:N	1:Y:281:PRO:CD	2.82	0.43
1:1:115:LEU:HD23	1:1:115:LEU:O	2.18	0.43
1:1:609:GLN:OE1	1:1:613:ILE:HD11	2.19	0.43
1:3:554:ILE:HG13	1:3:579:LEU:HD23	2.01	0.43
1:5:62:THR:HG21	2:6:34:LEU:HD22	2.00	0.43
2:6:93:LEU:CB	2:6:108:LEU:HD13	2.49	0.43
2:6:51:VAL:HG22	2:6:61:LEU:O	2.18	0.43
2:D:40:LEU:HD11	2:D:45:ILE:HD11	2.00	0.43
1:E:138:LEU:HD12	1:E:149:TYR:O	2.18	0.43
1:E:179:MET:HG2	1:E:197:VAL:HG22	2.00	0.43
1:G:86:LEU:CD1	1:G:251:SER:HA	2.44	0.43
1:G:459:ILE:HG21	1:G:494:MET:HG2	1.99	0.43
1:G:615:CYS:C	1:G:617:PHE:H	2.22	0.43
2:H:103:HIS:C	2:H:105:ARG:H	2.22	0.43
1:I:298:PHE:CE1	1:I:328:LEU:HD23	2.53	0.43
1:K:280:GLU:N	1:K:281:PRO:CD	2.81	0.43
2:L:68:LYS:HG2	2:L:69:ASN:N	2.33	0.43
2:N:86:VAL:O	2:N:90:ILE:HG13	2.19	0.43
1:O:138:LEU:HD12	1:O:149:TYR:O	2.19	0.43
2:P:68:LYS:HG2	2:P:69:ASN:N	2.33	0.43
1:Q:243:VAL:N	1:Q:285:THR:HG22	2.19	0.43
1:Q:69:LEU:N	1:Q:69:LEU:HD12	2.32	0.43
1:U:143:PRO:HG3	1:U:193:VAL:CG2	2.48	0.43
1:W:68:MET:SD	1:W:210:PRO:CG	3.06	0.43
1:Y:522:GLU:C	1:Y:524:ARG:H	2.21	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:609:GLN:OE1	1:Y:613:ILE:HD11	2.17	0.43
2:Z:51:VAL:HG22	2:Z:61:LEU:O	2.17	0.43
2:2:103:HIS:C	2:2:105:ARG:H	2.22	0.43
1:5:524:ARG:C	1:5:526:ALA:H	2.22	0.43
1:5:554:ILE:N	1:5:554:ILE:HD12	2.34	0.43
2:6:29:CYS:SG	2:6:30:HIS:N	2.91	0.43
1:A:144:HIS:HE1	1:A:181:THR:HG21	1.82	0.43
1:A:76:TYR:HB2	1:A:230:THR:HG23	2.00	0.43
1:A:455:SER:O	1:A:459:ILE:HG22	2.18	0.43
1:A:77:LYS:O	1:A:79:SER:N	2.52	0.43
2:B:60:SER:CB	2:B:83:LEU:HG	2.43	0.43
1:C:62:THR:HB	2:D:34:LEU:HD13	1.99	0.43
1:C:84:ILE:N	1:C:84:ILE:HD12	2.34	0.43
1:G:183:LYS:HE3	1:G:191:GLU:OE1	2.17	0.43
1:G:177:PHE:CZ	1:G:205:PRO:HG3	2.53	0.43
1:G:635:THR:OG1	1:G:639:VAL:HG21	2.19	0.43
1:I:280:GLU:N	1:I:281:PRO:CD	2.82	0.43
1:I:544:ILE:HG22	1:I:553:ILE:HG12	2.00	0.43
1:I:66:ALA:N	2:J:128:LEU:HD22	2.34	0.43
2:N:68:LYS:HG2	2:N:69:ASN:N	2.33	0.43
1:O:544:ILE:HG22	1:O:553:ILE:HG12	1.99	0.43
1:Q:143:PRO:HG3	1:Q:193:VAL:CG2	2.48	0.43
1:Q:208:ARG:HG2	1:Q:209:GLY:N	2.33	0.43
1:Q:428:VAL:HG21	1:Q:446:TYR:CE1	2.53	0.43
1:Q:545:ILE:HD12	1:Q:661:LEU:CD1	2.48	0.43
1:S:204:LEU:HD23	1:S:213:TYR:CD2	2.53	0.43
1:S:41:THR:HG23	1:S:42:GLU:N	2.32	0.43
1:U:177:PHE:CZ	1:U:205:PRO:HG3	2.53	0.43
1:W:490:LYS:HZ2	1:W:626:GLU:HB3	1.84	0.43
1:W:614:PHE:O	1:W:634:ILE:HD12	2.17	0.43
1:W:73:LYS:C	1:W:75:ILE:H	2.22	0.43
1:Y:572:TYR:HB2	1:Y:624:GLU:O	2.18	0.43
1:Y:56:TRP:CZ2	1:Y:61:VAL:HG21	2.53	0.43
2:Z:52:SER:H	2:Z:55:THR:HG21	1.81	0.43
1:1:50:LEU:HD22	1:1:52:PRO:HD3	2.00	0.43
1:1:545:ILE:HD12	1:1:661:LEU:CD1	2.48	0.43
1:1:639:VAL:O	1:1:643:ILE:HG13	2.19	0.43
1:3:531:ALA:HB2	1:3:551:THR:OG1	2.19	0.43
2:4:51:VAL:HG22	2:4:61:LEU:O	2.18	0.43
1:C:280:GLU:N	1:C:281:PRO:CD	2.82	0.43
1:C:115:LEU:CD1	1:C:359:VAL:HG21	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:455:SER:O	1:C:459:ILE:HG22	2.18	0.43
1:C:50:LEU:HD22	1:C:52:PRO:HD3	2.00	0.43
1:C:66:ALA:CA	2:D:128:LEU:HD13	2.49	0.43
1:E:257:THR:HG23	1:E:260:SER:CB	2.49	0.43
1:E:524:ARG:H	1:E:524:ARG:CD	2.18	0.43
1:E:572:TYR:HB2	1:E:624:GLU:O	2.19	0.43
1:G:603:GLN:HG2	1:G:671:ALA:O	2.18	0.43
1:I:531:ALA:HB2	1:I:551:THR:OG1	2.18	0.43
1:K:531:ALA:HB2	1:K:551:THR:OG1	2.19	0.43
1:Q:108:HIS:C	1:Q:110:GLY:N	2.72	0.43
1:S:488:ARG:NH1	1:S:492:LEU:HD12	2.33	0.43
1:U:290:THR:O	1:U:294:VAL:HG23	2.18	0.43
1:U:419:GLU:O	1:U:423:ILE:HG13	2.19	0.43
2:V:103:HIS:C	2:V:105:ARG:H	2.21	0.43
1:W:522:GLU:H	1:W:525:ASP:CG	2.22	0.43
1:W:563:SER:OG	1:W:583:ILE:HG22	2.17	0.43
1:Y:143:PRO:HG3	1:Y:193:VAL:CG2	2.48	0.43
2:Z:48:ILE:HG12	2:Z:64:LEU:HD23	2.01	0.43
1:1:404:TYR:HD2	1:1:449:LEU:HD22	1.82	0.43
1:3:92:ILE:HG23	1:3:93:PRO:HD2	2.01	0.43
1:A:183:LYS:HE3	1:A:191:GLU:OE1	2.19	0.43
2:B:51:VAL:HG22	2:B:61:LEU:O	2.19	0.43
1:C:615:CYS:C	1:C:617:PHE:H	2.22	0.43
1:C:625:LYS:HE2	1:C:655:HIS:CE1	2.53	0.43
2:D:68:LYS:HG2	2:D:69:ASN:N	2.33	0.43
1:E:552:PHE:CG	1:E:661:LEU:HD13	2.54	0.43
2:F:103:HIS:C	2:F:105:ARG:H	2.22	0.43
2:F:86:VAL:O	2:F:90:ILE:HG13	2.19	0.43
1:G:464:ARG:HH11	1:G:464:ARG:HG2	1.84	0.43
1:G:531:ALA:HB2	1:G:551:THR:OG1	2.19	0.43
2:J:101:THR:HG22	2:J:102:GLY:N	2.30	0.43
2:L:128:LEU:H	2:L:128:LEU:CD2	2.32	0.43
1:O:280:GLU:N	1:O:281:PRO:CD	2.82	0.43
1:O:641:ASN:C	1:O:643:ILE:H	2.22	0.43
1:Q:89:PRO:CD	1:Q:255:THR:HA	2.41	0.43
1:Q:58:GLU:OE1	1:Q:150:GLN:HB2	2.19	0.43
1:S:173:MET:HB3	1:S:178:LEU:HD13	2.00	0.43
1:U:639:VAL:O	1:U:643:ILE:HG13	2.18	0.43
1:W:98:GLY:O	1:W:118:PRO:HD2	2.19	0.43
1:5:592:VAL:HG12	1:5:593:ALA:N	2.34	0.43
1:A:455:SER:HB2	1:A:630:THR:HB	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:173:MET:HB3	1:C:178:LEU:HD13	2.01	0.43
1:E:29:ILE:H	1:E:29:ILE:HG13	1.63	0.43
1:G:572:TYR:HB2	1:G:624:GLU:O	2.19	0.43
1:I:488:ARG:NH1	1:I:492:LEU:HD12	2.34	0.43
1:I:563:SER:OG	1:I:583:ILE:HG22	2.19	0.43
1:K:82:LEU:CD2	1:K:247:LYS:HG2	2.49	0.43
1:M:57:ARG:CD	2:N:39:LEU:HG	2.48	0.43
1:O:554:ILE:HG13	1:O:579:LEU:HD23	2.01	0.43
2:P:40:LEU:HD22	2:P:45:ILE:CD1	2.49	0.43
1:Q:179:MET:HG2	1:Q:197:VAL:HG22	2.01	0.43
1:S:615:CYS:C	1:S:617:PHE:H	2.21	0.43
1:S:625:LYS:HE2	1:S:655:HIS:CE1	2.54	0.43
2:T:39:LEU:H	2:T:39:LEU:CD1	2.32	0.43
1:U:273:GLU:HG3	1:U:278:CYS:SG	2.59	0.43
1:Y:29:ILE:O	1:Y:30:GLU:C	2.56	0.43
1:Y:625:LYS:HE2	1:Y:655:HIS:CE1	2.54	0.43
1:Y:96:SER:HB2	1:Y:99:SER:HB3	2.01	0.43
2:Z:68:LYS:HG2	2:Z:69:ASN:N	2.34	0.43
1:1:117:SER:HA	1:1:118:PRO:HD3	1.87	0.43
1:1:257:THR:HG23	1:1:260:SER:CB	2.48	0.43
1:1:243:VAL:N	1:1:285:THR:HG22	2.22	0.43
1:1:41:THR:HG23	1:1:42:GLU:N	2.33	0.43
1:3:138:LEU:HD12	1:3:149:TYR:O	2.18	0.43
1:3:568:ALA:HA	1:3:599:ILE:HD12	2.01	0.43
1:3:78:THR:HG22	1:3:215:SER:C	2.39	0.43
1:5:25:LEU:HD23	2:6:48:ILE:HB	2.00	0.43
1:5:625:LYS:HE2	1:5:655:HIS:CE1	2.54	0.43
1:A:459:ILE:HD13	1:A:494:MET:HE2	2.00	0.43
1:A:563:SER:OG	1:A:583:ILE:HG22	2.19	0.43
2:B:29:CYS:O	2:B:131:TYR:HB2	2.18	0.43
2:B:86:VAL:O	2:B:90:ILE:HG13	2.18	0.43
1:C:538:LEU:CD2	1:C:538:LEU:H	2.28	0.43
2:D:103:HIS:C	2:D:105:ARG:H	2.22	0.43
1:E:29:ILE:HG22	1:E:30:GLU:H	1.83	0.43
1:E:69:LEU:HD11	2:F:123:LEU:CB	2.47	0.43
1:G:20:LEU:O	1:G:21:SER:HB2	2.18	0.43
1:G:482:LEU:CD1	1:G:529:LEU:HD11	2.49	0.43
1:I:138:LEU:HD12	1:I:149:TYR:O	2.19	0.43
1:K:208:ARG:HG2	1:K:209:GLY:N	2.34	0.43
2:N:45:ILE:HA	2:N:66:SER:HB3	2.00	0.43
1:O:26:HIS:HD2	1:O:35:HIS:CD2	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:419:GLU:O	1:O:423:ILE:HG13	2.18	0.43
1:Q:592:VAL:HG12	1:Q:593:ALA:N	2.34	0.43
1:M:128:LYS:NZ	1:Q:601:LYS:HE2	2.34	0.43
1:Q:62:THR:HG22	2:R:33:GLN:HA	2.00	0.43
1:Q:639:VAL:O	1:Q:643:ILE:HG13	2.19	0.43
1:S:280:GLU:N	1:S:281:PRO:CD	2.81	0.43
1:U:24:LYS:HG3	1:U:37:THR:CG2	2.39	0.43
1:W:612:CYS:HA	1:W:640:GLN:NE2	2.34	0.43
2:Z:103:HIS:C	2:Z:105:ARG:H	2.22	0.43
1:1:482:LEU:CD1	1:1:529:LEU:HD11	2.48	0.43
2:2:68:LYS:HG2	2:2:69:ASN:N	2.32	0.43
1:3:424:GLY:O	1:3:428:VAL:HG23	2.19	0.43
2:6:68:LYS:HG2	2:6:69:ASN:N	2.33	0.43
1:A:524:ARG:CD	1:A:524:ARG:H	2.30	0.43
1:C:62:THR:CG2	2:D:33:GLN:HA	2.49	0.43
2:F:29:CYS:H	2:F:61:LEU:HD13	1.83	0.43
1:G:428:VAL:HG21	1:G:446:TYR:CE1	2.54	0.43
2:H:45:ILE:HA	2:H:66:SER:HB3	2.01	0.43
1:I:177:PHE:CZ	1:I:205:PRO:HG3	2.53	0.43
1:I:554:ILE:N	1:I:554:ILE:HD12	2.34	0.43
1:K:97:GLU:O	1:K:98:GLY:C	2.57	0.43
2:L:45:ILE:H	2:L:45:ILE:HG13	1.63	0.43
1:O:86:LEU:CD1	1:O:251:SER:HA	2.49	0.43
1:Q:138:LEU:HD12	1:Q:149:TYR:O	2.19	0.43
1:Q:104:ALA:HB1	1:Q:347:GLY:HA3	2.01	0.43
1:S:82:LEU:H	1:S:82:LEU:HD23	1.82	0.43
2:T:24:TRP:O	2:T:25:ALA:C	2.58	0.43
1:U:367:LEU:HG	1:U:368:THR:H	1.84	0.43
1:U:540:LYS:O	1:U:555:SER:HB2	2.19	0.43
1:W:280:GLU:N	1:W:281:PRO:CD	2.82	0.43
1:W:41:THR:HG23	1:W:42:GLU:N	2.34	0.43
1:W:424:GLY:O	1:W:428:VAL:HG23	2.19	0.43
1:W:545:ILE:HD12	1:W:661:LEU:CD1	2.49	0.43
1:Y:243:VAL:N	1:Y:285:THR:HG22	2.20	0.43
1:1:615:CYS:C	1:1:617:PHE:H	2.23	0.42
1:3:563:SER:OG	1:3:583:ILE:HG22	2.18	0.42
1:A:280:GLU:N	1:A:281:PRO:CD	2.81	0.42
1:A:417:MET:O	1:A:420:THR:HB	2.19	0.42
1:C:86:LEU:HB3	1:C:255:THR:HG23	2.01	0.42
1:C:529:LEU:HD13	1:C:544:ILE:HD12	2.00	0.42
2:D:40:LEU:CD1	2:D:45:ILE:HD11	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:50:LEU:HD22	1:G:52:PRO:HD3	2.01	0.42
1:I:183:LYS:HE3	1:I:191:GLU:OE1	2.19	0.42
1:K:183:LYS:HE3	1:K:191:GLU:OE1	2.18	0.42
1:K:50:LEU:HD22	1:K:52:PRO:HD3	1.99	0.42
1:M:257:THR:HG23	1:M:260:SER:CB	2.48	0.42
1:S:88:GLU:HA	1:S:89:PRO:HD3	1.83	0.42
1:U:280:GLU:N	1:U:281:PRO:CD	2.82	0.42
1:U:25:LEU:HA	2:V:48:ILE:O	2.18	0.42
1:W:68:MET:HG2	1:W:210:PRO:HG2	2.01	0.42
1:1:543:MET:HE2	1:1:545:ILE:HG12	2.01	0.42
1:1:62:THR:O	1:1:64:ASP:N	2.52	0.42
1:A:112:ILE:N	1:A:112:ILE:HD12	2.34	0.42
1:A:138:LEU:HD12	1:A:149:TYR:O	2.19	0.42
1:A:615:CYS:C	1:A:617:PHE:H	2.23	0.42
1:C:429:LEU:HD11	1:C:433:ARG:HH12	1.84	0.42
1:E:531:ALA:HB2	1:E:551:THR:OG1	2.19	0.42
1:G:20:LEU:HG	2:H:43:GLU:HG2	2.01	0.42
1:I:41:THR:HG23	1:I:42:GLU:N	2.35	0.42
1:I:552:PHE:CG	1:I:661:LEU:HD13	2.55	0.42
2:J:103:HIS:C	2:J:105:ARG:H	2.23	0.42
1:I:63:GLU:HA	2:J:33:GLN:HG3	2.00	0.42
1:M:459:ILE:HD13	1:M:494:MET:HE2	2.01	0.42
1:M:625:LYS:HE2	1:M:655:HIS:CE1	2.54	0.42
1:O:183:LYS:HE3	1:O:191:GLU:OE1	2.18	0.42
1:O:316:ARG:HA	1:O:374:TYR:HE1	1.82	0.42
1:O:490:LYS:HE3	1:O:494:MET:SD	2.59	0.42
1:Q:50:LEU:HD22	1:Q:52:PRO:HD3	2.00	0.42
1:S:568:ALA:HA	1:S:599:ILE:HD12	2.01	0.42
1:U:50:LEU:HD22	1:U:52:PRO:HD3	2.01	0.42
1:W:250:PHE:O	1:W:254:VAL:HG23	2.19	0.42
2:X:48:ILE:HG12	2:X:64:LEU:HD23	2.01	0.42
1:Y:61:VAL:HG12	2:Z:80:ALA:HB1	2.00	0.42
1:3:41:THR:HG23	1:3:42:GLU:N	2.34	0.42
1:3:625:LYS:HE2	1:3:655:HIS:CE1	2.53	0.42
1:5:21:SER:O	1:5:22:GLU:HB2	2.18	0.42
2:6:45:ILE:HD13	2:6:64:LEU:HD22	2.01	0.42
1:A:554:ILE:N	1:A:554:ILE:HD12	2.35	0.42
2:D:48:ILE:HG12	2:D:64:LEU:HD23	2.01	0.42
2:D:86:VAL:O	2:D:90:ILE:HG13	2.19	0.42
1:E:87:ALA:O	1:E:255:THR:HG22	2.20	0.42
1:E:92:ILE:HG13	1:E:92:ILE:H	1.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:138:LEU:HD12	1:G:149:TYR:O	2.19	0.42
2:J:86:VAL:O	2:J:90:ILE:HG13	2.18	0.42
1:O:169:TYR:OH	1:O:292:PHE:HA	2.19	0.42
1:O:409:LEU:HD22	1:O:631:THR:O	2.19	0.42
1:O:409:LEU:HD11	1:O:632:THR:OG1	2.20	0.42
1:Q:257:THR:HG23	1:Q:260:SER:CB	2.49	0.42
1:Q:552:PHE:CG	1:Q:661:LEU:HD13	2.55	0.42
2:R:103:HIS:C	2:R:105:ARG:H	2.22	0.42
2:R:93:LEU:CB	2:R:108:LEU:HD13	2.49	0.42
1:S:529:LEU:HA	1:S:530:PRO:HD3	1.81	0.42
1:S:639:VAL:O	1:S:643:ILE:HG13	2.19	0.42
1:U:524:ARG:O	1:U:527:TRP:HB2	2.19	0.42
1:W:106:LYS:NZ	1:W:106:LYS:HB2	2.34	0.42
1:W:20:LEU:HD23	1:W:21:SER:N	2.33	0.42
1:W:243:VAL:N	1:W:285:THR:HG22	2.19	0.42
1:1:91:ASP:HB3	1:1:317:TRP:CH2	2.54	0.42
1:1:533:LYS:H	1:1:533:LYS:HG3	1.68	0.42
1:1:531:ALA:HB2	1:1:551:THR:OG1	2.19	0.42
1:1:563:SER:OG	1:1:583:ILE:HG22	2.19	0.42
1:3:130:LEU:HD22	1:3:343:MET:C	2.39	0.42
1:3:501:LEU:N	1:3:501:LEU:HD12	2.35	0.42
1:3:612:CYS:HA	1:3:640:GLN:NE2	2.34	0.42
1:3:99:SER:HA	1:3:118:PRO:O	2.19	0.42
2:4:48:ILE:HG12	2:4:64:LEU:HD23	2.00	0.42
1:5:615:CYS:C	1:5:617:PHE:H	2.22	0.42
1:A:572:TYR:HB2	1:A:624:GLU:O	2.19	0.42
1:A:568:ALA:HA	1:A:599:ILE:HD12	2.01	0.42
2:B:103:HIS:C	2:B:105:ARG:H	2.23	0.42
1:C:107:VAL:O	1:C:108:HIS:C	2.58	0.42
1:C:544:ILE:HG22	1:C:553:ILE:HG12	2.01	0.42
1:C:554:ILE:N	1:C:554:ILE:HD12	2.34	0.42
1:C:56:TRP:CB	2:D:42:LEU:HD11	2.49	0.42
1:E:455:SER:HB2	1:E:630:THR:CG2	2.49	0.42
1:E:554:ILE:HD12	1:E:554:ILE:N	2.35	0.42
2:J:39:LEU:HB2	2:J:40:LEU:H	1.67	0.42
1:K:117:SER:HA	1:K:118:PRO:HD3	1.90	0.42
1:K:419:GLU:O	1:K:423:ILE:HG13	2.19	0.42
1:O:88:GLU:HA	1:O:89:PRO:HD3	1.82	0.42
1:Q:156:SER:HB3	1:Q:342:GLY:HA3	2.00	0.42
1:Q:70:ASN:HB3	1:Q:73:LYS:NZ	2.34	0.42
1:S:27:LEU:CD2	2:T:50:LEU:HD12	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:419:GLU:O	1:S:423:ILE:HG13	2.19	0.42
1:S:552:PHE:CG	1:S:661:LEU:HD13	2.54	0.42
2:T:37:GLN:HG2	2:T:38:HIS:N	2.34	0.42
1:U:429:LEU:HD11	1:U:433:ARG:HH12	1.84	0.42
1:U:563:SER:OG	1:U:583:ILE:HG22	2.19	0.42
1:W:592:VAL:HG12	1:W:593:ALA:N	2.34	0.42
1:Y:62:THR:HG21	2:Z:34:LEU:HD11	2.01	0.42
1:1:71:ARG:O	1:1:71:ARG:HG2	2.19	0.42
1:1:62:THR:O	2:2:33:GLN:HA	2.19	0.42
1:5:429:LEU:HD11	1:5:433:ARG:HH12	1.83	0.42
1:A:192:HIS:HA	1:A:234:HIS:CE1	2.54	0.42
1:A:273:GLU:HG2	1:A:519:LEU:HD12	2.02	0.42
2:B:34:LEU:CG	2:B:39:LEU:HG	2.50	0.42
1:C:568:ALA:HA	1:C:599:ILE:HD12	2.01	0.42
1:E:483:ARG:HD3	1:E:485:ASP:HB3	2.02	0.42
1:G:639:VAL:O	1:G:643:ILE:HG13	2.20	0.42
2:H:68:LYS:HG2	2:H:69:ASN:N	2.34	0.42
1:I:483:ARG:HD3	1:I:485:ASP:HB3	2.00	0.42
1:I:572:TYR:HB2	1:I:624:GLU:O	2.20	0.42
1:I:82:LEU:C	1:I:82:LEU:HD12	2.39	0.42
2:J:48:ILE:HG12	2:J:64:LEU:HD23	2.01	0.42
1:K:102:VAL:HG11	1:K:351:LEU:HD13	2.00	0.42
1:M:615:CYS:C	1:M:617:PHE:H	2.22	0.42
1:M:63:GLU:O	1:M:64:ASP:C	2.56	0.42
1:M:69:LEU:HD11	2:N:123:LEU:HB2	2.02	0.42
1:O:99:SER:HA	1:O:118:PRO:HB2	2.01	0.42
1:O:27:LEU:HD11	2:P:111:LEU:CD1	2.50	0.42
1:Q:183:LYS:HE3	1:Q:191:GLU:OE1	2.19	0.42
1:Q:482:LEU:HB3	1:Q:544:ILE:HG13	2.02	0.42
1:S:20:LEU:HD23	1:S:21:SER:H	1.83	0.42
1:S:213:TYR:N	1:S:214:PRO:CD	2.83	0.42
1:S:592:VAL:HG12	1:S:593:ALA:N	2.34	0.42
2:V:68:LYS:HG2	2:V:69:ASN:N	2.34	0.42
1:W:459:ILE:HD13	1:W:494:MET:HE2	2.01	0.42
1:W:552:PHE:CG	1:W:661:LEU:HD13	2.54	0.42
1:Y:104:ALA:HB3	1:Y:125:PRO:HB2	2.01	0.42
1:Y:21:SER:O	1:Y:22:GLU:HB2	2.19	0.42
1:1:363:GLU:HG3	1:1:366:HIS:HD2	1.85	0.42
1:1:538:LEU:CD2	1:1:538:LEU:H	2.31	0.42
1:3:173:MET:HB3	1:3:178:LEU:HD13	2.01	0.42
2:4:68:LYS:HG2	2:4:69:ASN:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:20:LEU:HA	1:A:40:TRP:CH2	2.55	0.42
1:C:70:ASN:HA	1:C:73:LYS:CG	2.36	0.42
1:C:83:GLY:C	1:C:84:ILE:HD12	2.39	0.42
1:C:84:ILE:HG22	1:C:86:LEU:HG	2.00	0.42
1:G:156:SER:HB3	1:G:342:GLY:HA3	2.02	0.42
1:K:516:ARG:HH11	1:K:516:ARG:HG3	1.84	0.42
1:M:213:TYR:N	1:M:214:PRO:CD	2.83	0.42
1:M:280:GLU:N	1:M:281:PRO:CD	2.82	0.42
1:M:641:ASN:C	1:M:643:ILE:H	2.23	0.42
2:N:52:SER:H	2:N:55:THR:HG22	1.83	0.42
1:O:41:THR:HG23	1:O:42:GLU:N	2.34	0.42
1:O:563:SER:OG	1:O:583:ILE:HG22	2.19	0.42
1:O:62:THR:O	1:O:64:ASP:N	2.52	0.42
2:P:39:LEU:O	2:P:39:LEU:HD13	2.20	0.42
1:S:428:VAL:HG21	1:S:446:TYR:CE1	2.54	0.42
1:S:92:ILE:HG21	1:S:313:VAL:HG12	2.01	0.42
2:T:86:VAL:O	2:T:90:ILE:HG13	2.19	0.42
1:U:138:LEU:HD12	1:U:149:TYR:O	2.18	0.42
1:U:208:ARG:HG2	1:U:209:GLY:N	2.35	0.42
1:W:531:ALA:HB2	1:W:551:THR:OG1	2.19	0.42
2:X:103:HIS:C	2:X:105:ARG:H	2.23	0.42
1:Y:255:THR:O	1:Y:256:MET:HB2	2.20	0.42
1:Y:635:THR:OG1	1:Y:639:VAL:HG21	2.20	0.42
1:Y:75:ILE:O	1:Y:77:LYS:HE3	2.19	0.42
2:2:93:LEU:CB	2:2:108:LEU:HD13	2.47	0.42
1:3:592:VAL:HG12	1:3:593:ALA:N	2.34	0.42
1:3:59:ALA:HB2	1:3:149:TYR:OH	2.20	0.42
1:3:455:SER:HB2	1:3:630:THR:HB	2.01	0.42
1:5:173:MET:HB3	1:5:178:LEU:HD13	2.02	0.42
1:A:100:MET:HE2	1:A:112:ILE:O	2.20	0.42
1:A:529:LEU:HD13	1:A:544:ILE:HD12	2.00	0.42
1:A:552:PHE:CG	1:A:661:LEU:HD13	2.55	0.42
1:C:531:ALA:HB2	1:C:551:THR:OG1	2.19	0.42
1:E:670:ILE:HG22	1:E:671:ALA:N	2.33	0.42
1:G:280:GLU:N	1:G:281:PRO:CD	2.81	0.42
1:G:298:PHE:CE1	1:G:328:LEU:HD23	2.54	0.42
1:G:419:GLU:O	1:G:423:ILE:HG13	2.19	0.42
1:G:88:GLU:HA	1:G:89:PRO:HD3	1.85	0.42
1:I:208:ARG:HG2	1:I:209:GLY:N	2.34	0.42
1:I:399:VAL:HG13	1:I:400:LEU:N	2.34	0.42
1:I:424:GLY:O	1:I:428:VAL:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:482:LEU:HB3	1:I:544:ILE:HG13	2.01	0.42
1:K:41:THR:HG23	1:K:42:GLU:N	2.34	0.42
1:K:552:PHE:CG	1:K:661:LEU:HD13	2.54	0.42
2:N:39:LEU:O	2:N:39:LEU:HD22	2.20	0.42
1:O:531:ALA:HB2	1:O:551:THR:OG1	2.20	0.42
1:O:69:LEU:HD11	2:P:123:LEU:HB2	2.00	0.42
2:P:81:ASN:O	2:P:85:VAL:HG23	2.19	0.42
1:Q:280:GLU:N	1:Q:281:PRO:CD	2.82	0.42
1:Q:316:ARG:HA	1:Q:374:TYR:CE1	2.55	0.42
2:T:68:LYS:HG2	2:T:69:ASN:H	1.85	0.42
1:U:572:TYR:HB2	1:U:624:GLU:O	2.20	0.42
1:W:625:LYS:HE2	1:W:655:HIS:CE1	2.55	0.42
2:X:39:LEU:H	2:X:39:LEU:HD22	1.83	0.42
1:Y:545:ILE:HD12	1:Y:661:LEU:CD1	2.50	0.42
1:1:100:MET:HG3	1:1:101:GLN:N	2.27	0.42
1:1:82:LEU:HD12	1:1:82:LEU:C	2.39	0.42
1:3:27:LEU:CD2	1:3:28:ASP:H	2.32	0.42
1:3:459:ILE:HD13	1:3:494:MET:HE2	2.02	0.42
1:5:78:THR:O	1:5:78:THR:HG23	2.20	0.42
1:A:177:PHE:CZ	1:A:205:PRO:HG3	2.54	0.42
1:A:538:LEU:N	1:A:538:LEU:HD23	2.32	0.42
1:C:565:LEU:HD23	1:C:596:PRO:HG3	2.02	0.42
1:C:455:SER:HB2	1:C:630:THR:HB	2.02	0.42
1:E:242:PHE:CE1	1:E:288:LEU:HB3	2.55	0.42
2:F:42:LEU:HD23	2:F:42:LEU:HA	1.87	0.42
1:G:112:ILE:HG22	1:G:112:ILE:O	2.19	0.42
1:G:493:SER:HB3	1:G:626:GLU:HG2	2.01	0.42
1:K:545:ILE:HD12	1:K:661:LEU:CD1	2.50	0.42
1:M:179:MET:HG2	1:M:197:VAL:HG22	2.02	0.42
1:M:156:SER:HB2	1:M:342:GLY:HA3	2.02	0.42
1:M:639:VAL:O	1:M:643:ILE:HG13	2.19	0.42
2:N:130:ARG:HD3	2:N:131:TYR:CE1	2.54	0.42
1:O:279:ARG:HE	1:O:519:LEU:HD21	1.84	0.42
1:O:324:GLU:O	1:O:328:LEU:HB2	2.20	0.42
1:O:625:LYS:HE2	1:O:655:HIS:CE1	2.55	0.42
1:Q:572:TYR:HB2	1:Q:624:GLU:O	2.18	0.42
1:Q:635:THR:OG1	1:Q:639:VAL:HG21	2.20	0.42
1:S:543:MET:HE3	1:S:631:THR:HG21	2.01	0.42
1:S:572:TYR:HB2	1:S:624:GLU:O	2.20	0.42
1:U:554:ILE:HD12	1:U:554:ILE:N	2.35	0.42
1:W:429:LEU:HD11	1:W:433:ARG:HH12	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:502:ASP:O	1:W:506:VAL:HG23	2.20	0.42
1:Y:482:LEU:HD11	1:Y:529:LEU:HD11	2.02	0.42
1:Y:524:ARG:HG2	1:Y:524:ARG:HH11	1.85	0.42
1:Y:24:LYS:O	2:Z:47:ASP:HA	2.20	0.42
1:1:108:HIS:HA	1:1:109:PRO:HD2	1.93	0.42
1:3:273:GLU:OE2	1:3:519:LEU:HD12	2.20	0.42
1:3:82:LEU:HD21	1:3:247:LYS:HE2	2.02	0.42
1:5:543:MET:HE2	1:5:545:ILE:HG12	2.01	0.42
2:6:103:HIS:C	2:6:105:ARG:H	2.23	0.42
1:A:242:PHE:CE1	1:A:288:LEU:HB3	2.55	0.42
2:B:39:LEU:N	2:B:39:LEU:HD12	2.34	0.42
2:F:28:CYS:HB2	2:F:131:TYR:CE1	2.55	0.42
1:G:108:HIS:O	1:G:110:GLY:N	2.52	0.42
1:G:250:PHE:O	1:G:254:VAL:HG23	2.20	0.42
1:G:516:ARG:HG3	1:G:516:ARG:HH11	1.85	0.42
1:I:540:LYS:O	1:I:555:SER:HB2	2.19	0.42
1:K:177:PHE:CZ	1:K:205:PRO:HG3	2.55	0.42
1:K:317:TRP:HD1	1:K:318:LEU:HD23	1.84	0.42
1:K:404:TYR:HD2	1:K:449:LEU:HD22	1.84	0.42
1:K:565:LEU:HD23	1:K:596:PRO:HG3	2.02	0.42
1:M:27:LEU:HD22	2:N:114:LEU:HD22	2.01	0.42
1:M:376:LEU:O	1:M:379:ALA:HB3	2.20	0.42
1:O:70:ASN:HA	1:O:73:LYS:CD	2.50	0.42
1:Q:107:VAL:HG21	1:Q:350:ARG:HD3	2.01	0.42
1:S:108:HIS:HB2	1:S:112:ILE:HD11	2.01	0.42
1:S:554:ILE:HD12	1:S:554:ILE:N	2.35	0.42
1:S:563:SER:OG	1:S:583:ILE:HG22	2.20	0.42
2:V:38:HIS:O	2:V:39:LEU:HB3	2.19	0.42
1:W:108:HIS:NE2	1:W:112:ILE:HG12	2.35	0.42
1:W:204:LEU:HD23	1:W:213:TYR:CD2	2.55	0.42
1:W:521:ARG:HG3	1:W:525:ASP:OD1	2.20	0.42
1:1:124:ALA:HB3	1:1:125:PRO:HD3	2.02	0.42
1:1:330:ASP:O	1:1:334:ILE:HG13	2.20	0.42
1:1:568:ALA:HA	1:1:599:ILE:HD12	2.02	0.42
1:5:250:PHE:O	1:5:254:VAL:HG23	2.19	0.42
1:A:592:VAL:HG12	1:A:593:ALA:N	2.34	0.42
2:B:34:LEU:HD23	2:B:34:LEU:N	2.30	0.42
1:C:488:ARG:NH1	1:C:492:LEU:HD12	2.35	0.42
1:C:545:ILE:HD12	1:C:661:LEU:CD1	2.50	0.42
1:E:204:LEU:HD23	1:E:213:TYR:CD2	2.55	0.42
1:E:568:ALA:HA	1:E:599:ILE:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:48:ILE:HG12	2:H:64:LEU:HD23	2.02	0.42
1:I:615:CYS:C	1:I:617:PHE:H	2.23	0.42
1:K:417:MET:O	1:K:420:THR:HB	2.20	0.42
2:L:29:CYS:O	2:L:131:TYR:HB2	2.20	0.42
1:M:482:LEU:HD13	1:M:544:ILE:HG13	2.02	0.42
1:O:301:VAL:HG21	1:O:325:LEU:HD11	2.01	0.42
1:Q:625:LYS:HE2	1:Q:655:HIS:CE1	2.55	0.42
1:Y:502:ASP:O	1:Y:506:VAL:HG23	2.20	0.42
1:1:156:SER:CB	1:1:342:GLY:HA3	2.49	0.41
1:1:63:GLU:OE2	1:1:68:MET:HA	2.19	0.41
1:3:538:LEU:HD23	1:3:538:LEU:N	2.32	0.41
1:5:41:THR:HG23	1:5:42:GLU:N	2.34	0.41
1:A:242:PHE:HA	1:A:285:THR:HG22	2.02	0.41
1:A:257:THR:HG23	1:A:260:SER:CB	2.50	0.41
1:A:24:LYS:O	2:B:47:ASP:HA	2.20	0.41
1:C:405:ASN:ND2	1:C:635:THR:OG1	2.53	0.41
1:E:63:GLU:O	1:E:64:ASP:C	2.57	0.41
1:G:488:ARG:NH1	1:G:492:LEU:HD12	2.35	0.41
1:G:592:VAL:HG12	1:G:593:ALA:N	2.34	0.41
1:K:138:LEU:HD12	1:K:149:TYR:O	2.20	0.41
1:K:429:LEU:HD11	1:K:433:ARG:HH12	1.84	0.41
1:O:501:LEU:N	1:O:501:LEU:HD12	2.35	0.41
2:P:101:THR:HG22	2:P:102:GLY:N	2.29	0.41
1:Q:615:CYS:C	1:Q:617:PHE:H	2.22	0.41
1:S:124:ALA:HB3	1:S:125:PRO:HD3	2.02	0.41
1:S:409:LEU:HD21	1:S:632:THR:CB	2.50	0.41
1:W:124:ALA:HB3	1:W:125:PRO:HD3	2.03	0.41
1:Y:27:LEU:HD23	1:Y:29:ILE:HD11	2.02	0.41
1:1:183:LYS:HE3	1:1:191:GLU:OE1	2.19	0.41
1:3:108:HIS:HB2	1:3:112:ILE:CD1	2.50	0.41
1:A:213:TYR:N	1:A:214:PRO:CD	2.83	0.41
2:B:52:SER:H	2:B:55:THR:HG22	1.84	0.41
1:C:124:ALA:HB3	1:C:125:PRO:HD3	2.03	0.41
1:C:138:LEU:HD12	1:C:149:TYR:O	2.19	0.41
1:E:429:LEU:HD11	1:E:433:ARG:HH12	1.85	0.41
1:E:76:TYR:HB3	1:E:230:THR:HG23	2.02	0.41
1:G:116:ASN:HA	1:G:371:LYS:NZ	2.35	0.41
1:G:87:ALA:O	1:G:255:THR:HG22	2.19	0.41
1:G:625:LYS:HE2	1:G:655:HIS:CE1	2.55	0.41
1:I:20:LEU:HG	2:J:43:GLU:OE2	2.20	0.41
1:I:156:SER:HB3	1:I:342:GLY:HA3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:376:LEU:O	1:I:379:ALA:HB3	2.20	0.41
1:I:538:LEU:CD2	1:I:538:LEU:H	2.31	0.41
1:K:501:LEU:HD12	1:K:501:LEU:N	2.35	0.41
2:L:86:VAL:O	2:L:90:ILE:HG13	2.20	0.41
1:M:664:ASN:O	1:M:666:THR:N	2.52	0.41
1:O:243:VAL:N	1:O:285:THR:HG22	2.20	0.41
1:O:316:ARG:HA	1:O:374:TYR:CE1	2.55	0.41
1:O:452:ALA:HA	1:O:631:THR:CG2	2.42	0.41
1:S:455:SER:HB2	1:S:630:THR:CB	2.50	0.41
1:U:116:ASN:ND2	1:U:116:ASN:H	2.16	0.41
1:W:404:TYR:CD2	1:W:449:LEU:HD22	2.55	0.41
1:W:635:THR:OG1	1:W:639:VAL:HG21	2.20	0.41
1:Y:291:MET:O	1:Y:294:VAL:HB	2.20	0.41
1:Y:68:MET:SD	1:Y:210:PRO:CG	3.05	0.41
2:Z:86:VAL:O	2:Z:90:ILE:HG13	2.20	0.41
1:1:459:ILE:HD13	1:1:494:MET:HE2	2.02	0.41
1:1:56:TRP:CD2	2:2:42:LEU:HD23	2.55	0.41
2:2:40:LEU:HD22	2:2:45:ILE:CD1	2.51	0.41
1:3:429:LEU:HD11	1:3:433:ARG:HH12	1.84	0.41
1:3:615:CYS:C	1:3:617:PHE:H	2.24	0.41
1:3:85:ALA:O	1:3:86:LEU:HD13	2.20	0.41
2:4:127:ASN:C	2:4:127:ASN:HD22	2.23	0.41
2:4:86:VAL:O	2:4:90:ILE:HG13	2.20	0.41
1:5:124:ALA:HB3	1:5:125:PRO:HD3	2.02	0.41
1:5:475:PHE:CG	1:5:476:SER:N	2.88	0.41
1:5:565:LEU:HD23	1:5:596:PRO:HG3	2.02	0.41
1:5:563:SER:OG	1:5:583:ILE:HG22	2.20	0.41
1:A:156:SER:CB	1:A:342:GLY:HA3	2.50	0.41
2:B:44:ASN:O	2:B:66:SER:HB2	2.20	0.41
1:C:538:LEU:HD23	1:C:538:LEU:N	2.30	0.41
1:E:563:SER:OG	1:E:583:ILE:HG22	2.19	0.41
1:E:615:CYS:C	1:E:617:PHE:H	2.23	0.41
1:G:156:SER:CB	1:G:342:GLY:HA3	2.50	0.41
1:G:317:TRP:HD1	1:G:318:LEU:HD23	1.85	0.41
1:K:213:TYR:N	1:K:214:PRO:CD	2.83	0.41
1:K:86:LEU:HD13	1:K:251:SER:HA	2.03	0.41
2:L:103:HIS:C	2:L:105:ARG:H	2.23	0.41
1:M:554:ILE:N	1:M:554:ILE:HD12	2.35	0.41
1:Q:173:MET:HB3	1:Q:178:LEU:HD13	2.02	0.41
1:Q:452:ALA:HA	1:Q:631:THR:CG2	2.44	0.41
1:Q:56:TRP:CH2	1:Q:61:VAL:HG11	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:92:ILE:HD13	1:Q:313:VAL:CG1	2.45	0.41
1:S:291:MET:O	1:S:294:VAL:HB	2.21	0.41
1:S:329:LYS:HE2	1:S:340:VAL:HB	2.02	0.41
1:W:298:PHE:CE1	1:W:328:LEU:HD23	2.54	0.41
1:Y:192:HIS:HA	1:Y:234:HIS:CE1	2.55	0.41
1:Y:156:SER:HB3	1:Y:342:GLY:HA3	2.01	0.41
1:Y:95:VAL:HG13	1:Y:96:SER:N	2.35	0.41
1:1:482:LEU:HB3	1:1:544:ILE:HG13	2.02	0.41
1:1:483:ARG:HD3	1:1:485:ASP:HB3	2.01	0.41
1:1:90:VAL:O	1:1:90:VAL:HG13	2.20	0.41
1:3:341:LYS:HB2	1:3:341:LYS:HE3	1.92	0.41
2:4:45:ILE:HG22	2:4:66:SER:HB3	2.01	0.41
1:5:280:GLU:N	1:5:281:PRO:CD	2.82	0.41
1:5:291:MET:O	1:5:294:VAL:HB	2.21	0.41
1:5:92:ILE:H	1:5:92:ILE:HD12	1.85	0.41
2:6:29:CYS:O	2:6:131:TYR:HB2	2.20	0.41
2:6:45:ILE:HD12	2:6:64:LEU:HB3	2.01	0.41
1:A:20:LEU:O	1:A:22:GLU:N	2.53	0.41
1:A:24:LYS:HG3	1:A:36:TYR:O	2.21	0.41
1:A:554:ILE:HG13	1:A:579:LEU:HD23	2.02	0.41
1:A:670:ILE:HG22	1:A:671:ALA:N	2.34	0.41
2:B:68:LYS:HG2	2:B:69:ASN:H	1.85	0.41
1:E:108:HIS:HA	1:E:109:PRO:HD2	1.92	0.41
2:F:52:SER:H	2:F:55:THR:HG22	1.86	0.41
1:G:27:LEU:HD23	2:H:50:LEU:HD12	2.02	0.41
1:I:448:LEU:HD22	1:I:546:PRO:O	2.20	0.41
1:I:543:MET:HE2	1:I:545:ILE:HG12	2.02	0.41
1:K:124:ALA:HB3	1:K:125:PRO:HD3	2.03	0.41
1:K:483:ARG:HG3	1:K:483:ARG:NH1	2.35	0.41
1:M:138:LEU:HD12	1:M:149:TYR:O	2.21	0.41
1:O:56:TRP:CZ2	1:O:61:VAL:HG11	2.55	0.41
2:P:34:LEU:HG	2:P:34:LEU:O	2.21	0.41
1:Q:428:VAL:O	1:Q:432:LEU:HD12	2.20	0.41
1:Q:483:ARG:HD3	1:Q:485:ASP:HB3	2.01	0.41
1:Q:531:ALA:HB2	1:Q:551:THR:OG1	2.20	0.41
1:U:124:ALA:HB3	1:U:125:PRO:HD3	2.02	0.41
1:U:173:MET:HB3	1:U:178:LEU:HD13	2.03	0.41
1:U:179:MET:HG2	1:U:197:VAL:HG22	2.02	0.41
1:U:438:THR:HG22	1:U:439:GLN:HG3	2.03	0.41
1:W:367:LEU:HG	1:W:368:THR:H	1.85	0.41
1:Y:204:LEU:HD23	1:Y:213:TYR:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:501:LEU:N	1:Y:501:LEU:HD12	2.35	0.41
1:1:213:TYR:N	1:1:214:PRO:CD	2.84	0.41
1:1:75:ILE:HA	1:1:231:THR:HA	2.01	0.41
1:1:291:MET:O	1:1:294:VAL:HB	2.20	0.41
1:1:317:TRP:HD1	1:1:318:LEU:HD23	1.85	0.41
1:1:475:PHE:CG	1:1:476:SER:N	2.88	0.41
1:1:554:ILE:N	1:1:554:ILE:HD12	2.35	0.41
1:3:255:THR:O	1:3:256:MET:HB2	2.20	0.41
1:3:428:VAL:HG21	1:3:446:TYR:CE1	2.55	0.41
1:5:20:LEU:O	1:5:21:SER:HB2	2.21	0.41
1:5:568:ALA:HA	1:5:599:ILE:HD12	2.03	0.41
2:6:68:LYS:HG2	2:6:69:ASN:H	1.85	0.41
1:A:255:THR:O	1:A:256:MET:HB2	2.20	0.41
1:A:376:LEU:O	1:A:379:ALA:HB3	2.20	0.41
1:C:213:TYR:N	1:C:214:PRO:CD	2.83	0.41
1:C:554:ILE:HG13	1:C:579:LEU:HD23	2.03	0.41
1:E:108:HIS:HB2	1:E:112:ILE:HG12	2.03	0.41
1:E:183:LYS:HE3	1:E:191:GLU:OE1	2.21	0.41
1:G:40:TRP:CZ2	2:H:42:LEU:HB3	2.55	0.41
1:I:179:MET:HG2	1:I:197:VAL:HG22	2.01	0.41
1:K:68:MET:SD	1:K:210:PRO:CG	3.06	0.41
1:M:323:PHE:CZ	1:M:423:ILE:HG23	2.55	0.41
1:M:324:GLU:O	1:M:328:LEU:HB2	2.21	0.41
1:M:488:ARG:NH1	1:M:492:LEU:HD12	2.35	0.41
1:S:138:LEU:HD12	1:S:149:TYR:O	2.20	0.41
1:S:635:THR:OG1	1:S:639:VAL:HG21	2.20	0.41
1:U:117:SER:CB	1:U:118:PRO:CD	2.97	0.41
1:U:107:VAL:HG12	1:U:354:MET:HE1	2.01	0.41
1:U:501:LEU:HD12	1:U:501:LEU:N	2.35	0.41
1:U:62:THR:HB	2:V:33:GLN:HA	2.03	0.41
2:V:48:ILE:HG12	2:V:64:LEU:HD23	2.03	0.41
1:Y:23:VAL:HG12	1:Y:24:LYS:N	2.35	0.41
1:Y:129:GLN:HB3	1:Y:345:SER:HB2	2.02	0.41
1:1:324:GLU:O	1:1:328:LEU:HB2	2.21	0.41
1:1:592:VAL:HG12	1:1:593:ALA:N	2.35	0.41
1:1:73:LYS:HA	1:1:77:LYS:NZ	2.36	0.41
1:3:490:LYS:HZ2	1:3:626:GLU:HB3	1.85	0.41
1:3:639:VAL:O	1:3:643:ILE:HG13	2.20	0.41
1:5:572:TYR:HB2	1:5:624:GLU:O	2.20	0.41
1:5:545:ILE:HD12	1:5:661:LEU:CD1	2.50	0.41
1:A:363:GLU:HG3	1:A:366:HIS:HD2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:24:TRP:O	2:B:25:ALA:HB2	2.20	0.41
1:C:395:GLY:O	1:C:399:VAL:HG12	2.21	0.41
1:E:502:ASP:OD2	1:E:504:ALA:HB3	2.21	0.41
1:E:592:VAL:HG12	1:E:593:ALA:N	2.36	0.41
1:G:208:ARG:HG2	1:G:209:GLY:N	2.35	0.41
1:G:59:ALA:O	1:G:61:VAL:N	2.54	0.41
1:G:664:ASN:O	1:G:666:THR:N	2.54	0.41
2:H:40:LEU:O	2:H:41:ALA:HB2	2.20	0.41
1:K:615:CYS:C	1:K:617:PHE:H	2.22	0.41
1:K:625:LYS:HE2	1:K:655:HIS:CE1	2.55	0.41
1:M:538:LEU:H	1:M:538:LEU:CD2	2.30	0.41
2:N:40:LEU:HA	2:N:40:LEU:HD12	1.96	0.41
1:Q:213:TYR:N	1:Q:214:PRO:CD	2.83	0.41
1:Q:41:THR:HG23	1:Q:42:GLU:N	2.35	0.41
1:Q:482:LEU:HD13	1:Q:544:ILE:HG13	2.02	0.41
1:Q:63:GLU:O	1:Q:64:ASP:C	2.58	0.41
2:R:68:LYS:HG2	2:R:69:ASN:H	1.85	0.41
1:S:641:ASN:C	1:S:643:ILE:H	2.24	0.41
2:T:93:LEU:CB	2:T:108:LEU:HD13	2.49	0.41
1:U:250:PHE:O	1:U:254:VAL:HG23	2.20	0.41
1:W:107:VAL:HG12	1:W:107:VAL:O	2.21	0.41
1:W:419:GLU:O	1:W:423:ILE:HG13	2.20	0.41
1:Y:124:ALA:HB3	1:Y:125:PRO:HD3	2.03	0.41
1:Y:82:LEU:HD12	1:Y:82:LEU:C	2.41	0.41
2:Z:101:THR:HG22	2:Z:102:GLY:N	2.29	0.41
2:Z:68:LYS:HG2	2:Z:69:ASN:H	1.86	0.41
1:1:63:GLU:HA	2:2:33:GLN:HG2	2.03	0.41
1:3:116:ASN:O	1:3:118:PRO:HD3	2.20	0.41
1:3:124:ALA:HB3	1:3:125:PRO:HD3	2.02	0.41
1:5:136:THR:HG22	1:5:138:LEU:O	2.21	0.41
1:5:204:LEU:HD23	1:5:213:TYR:CD2	2.55	0.41
1:5:531:ALA:HB2	1:5:551:THR:OG1	2.21	0.41
1:5:635:THR:OG1	1:5:639:VAL:HG21	2.21	0.41
1:A:20:LEU:HD12	1:A:40:TRP:CH2	2.56	0.41
1:A:329:LYS:NZ	1:A:344:GLN:HE21	2.18	0.41
1:A:405:ASN:HD22	1:A:405:ASN:N	2.19	0.41
1:A:533:LYS:HG3	1:A:533:LYS:H	1.67	0.41
1:C:547:LEU:HA	1:C:547:LEU:HD12	1.91	0.41
1:E:124:ALA:HB3	1:E:125:PRO:HD3	2.03	0.41
1:E:174:THR:HG23	1:E:177:PHE:H	1.85	0.41
1:E:405:ASN:N	1:E:405:ASN:HD22	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:475:PHE:CG	1:E:476:SER:N	2.88	0.41
2:F:100:LEU:HD13	2:F:104:LEU:O	2.20	0.41
1:G:124:ALA:HB3	1:G:125:PRO:HD3	2.03	0.41
2:H:100:LEU:HD13	2:H:104:LEU:O	2.21	0.41
1:I:115:LEU:HD13	1:I:115:LEU:O	2.20	0.41
1:I:242:PHE:HA	1:I:285:THR:HG22	2.03	0.41
1:I:545:ILE:HD12	1:I:661:LEU:CD1	2.50	0.41
1:I:75:ILE:HG22	1:I:76:TYR:N	2.35	0.41
2:J:35:ARG:C	2:J:37:GLN:H	2.24	0.41
2:J:68:LYS:HG2	2:J:69:ASN:H	1.86	0.41
2:L:68:LYS:HG2	2:L:69:ASN:H	1.86	0.41
1:M:298:PHE:CE1	1:M:328:LEU:HD23	2.56	0.41
1:M:58:GLU:OE2	1:M:150:GLN:N	2.53	0.41
1:M:572:TYR:HB2	1:M:624:GLU:O	2.20	0.41
1:O:173:MET:HB3	1:O:178:LEU:HD13	2.03	0.41
1:Q:565:LEU:HD23	1:Q:596:PRO:HG3	2.02	0.41
1:Q:490:LYS:HZ2	1:Q:626:GLU:HB3	1.86	0.41
1:Q:455:SER:HB2	1:Q:630:THR:HB	2.02	0.41
1:Q:88:GLU:HA	1:Q:89:PRO:HD3	1.79	0.41
1:S:501:LEU:N	1:S:501:LEU:HD12	2.36	0.41
1:U:24:LYS:HD2	1:U:26:HIS:NE2	2.35	0.41
1:U:490:LYS:HZ2	1:U:627:GLY:H	1.68	0.41
1:U:56:TRP:HB3	2:V:42:LEU:HD11	2.02	0.41
1:W:615:CYS:C	1:W:617:PHE:H	2.24	0.41
1:Y:54:ALA:O	1:Y:58:GLU:HG3	2.21	0.41
1:Y:641:ASN:C	1:Y:643:ILE:H	2.23	0.41
1:1:280:GLU:N	1:1:281:PRO:CD	2.83	0.41
2:2:68:LYS:HG2	2:2:69:ASN:H	1.85	0.41
1:3:177:PHE:CZ	1:3:205:PRO:HG3	2.55	0.41
1:3:419:GLU:O	1:3:423:ILE:HG13	2.20	0.41
1:3:54:ALA:O	1:3:58:GLU:HG3	2.21	0.41
1:5:183:LYS:HE3	1:5:191:GLU:OE1	2.21	0.41
1:5:255:THR:O	1:5:256:MET:HB2	2.21	0.41
1:5:25:LEU:HD21	2:6:89:PHE:CZ	2.55	0.41
1:5:483:ARG:NH2	1:5:494:MET:HE1	2.36	0.41
2:B:33:GLN:OE1	2:B:34:LEU:HD23	2.21	0.41
1:C:502:ASP:OD2	1:C:504:ALA:HB3	2.20	0.41
1:E:424:GLY:O	1:E:428:VAL:HG23	2.21	0.41
1:E:405:ASN:ND2	1:E:635:THR:OG1	2.53	0.41
1:E:65:LEU:H	2:F:31:VAL:HG23	1.86	0.41
1:G:428:VAL:O	1:G:432:LEU:HD12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:86:VAL:O	2:H:90:ILE:HG13	2.21	0.41
1:I:255:THR:O	1:I:256:MET:HB2	2.21	0.41
1:I:257:THR:HG23	1:I:260:SER:OG	2.21	0.41
1:I:71:ARG:NH2	1:I:146:TYR:O	2.54	0.41
1:K:72:TYR:C	1:K:74:LEU:H	2.23	0.41
1:M:291:MET:O	1:M:294:VAL:HB	2.21	0.41
1:M:320:LYS:HA	1:M:377:ARG:CD	2.42	0.41
1:M:561:ARG:O	1:M:587:CYS:HB2	2.21	0.41
1:O:21:SER:HA	1:O:40:TRP:CZ3	2.56	0.41
1:O:417:MET:O	1:O:420:THR:HB	2.20	0.41
1:O:70:ASN:HA	1:O:73:LYS:CG	2.50	0.41
1:Q:568:ALA:HA	1:Q:599:ILE:HD12	2.02	0.41
1:S:200:LYS:HA	1:S:223:ASP:O	2.21	0.41
1:S:21:SER:CB	1:S:41:THR:HB	2.46	0.41
1:S:538:LEU:HD23	1:S:538:LEU:N	2.31	0.41
2:X:37:GLN:HE21	2:X:38:HIS:CE1	2.39	0.41
2:X:68:LYS:HG2	2:X:69:ASN:H	1.86	0.41
1:1:138:LEU:HD12	1:1:149:TYR:O	2.20	0.41
1:1:177:PHE:CZ	1:1:205:PRO:HG3	2.56	0.41
1:3:552:PHE:CG	1:3:661:LEU:HD13	2.55	0.41
2:4:103:HIS:C	2:4:105:ARG:H	2.23	0.41
2:4:68:LYS:HG2	2:4:69:ASN:H	1.85	0.41
1:5:243:VAL:N	1:5:285:THR:HG22	2.20	0.41
1:A:291:MET:O	1:A:294:VAL:HB	2.21	0.41
1:A:524:ARG:C	1:A:526:ALA:N	2.74	0.41
1:E:143:PRO:HG3	1:E:193:VAL:CG2	2.46	0.41
2:F:68:LYS:HG2	2:F:69:ASN:H	1.86	0.41
1:I:21:SER:O	1:I:22:GLU:HG2	2.21	0.41
1:I:419:GLU:O	1:I:423:ILE:HG13	2.21	0.41
1:I:483:ARG:HG3	1:I:483:ARG:NH1	2.36	0.41
1:I:433:ARG:CD	1:I:524:ARG:HE	2.33	0.41
1:I:529:LEU:HA	1:I:530:PRO:HD3	1.92	0.41
1:K:204:LEU:HD23	1:K:213:TYR:CD2	2.56	0.41
1:M:177:PHE:CZ	1:M:205:PRO:HG3	2.55	0.41
1:M:428:VAL:HG21	1:M:446:TYR:CE1	2.56	0.41
1:M:456:ALA:HA	1:M:459:ILE:CG2	2.51	0.41
1:M:540:LYS:O	1:M:555:SER:HB2	2.21	0.41
2:N:93:LEU:CB	2:N:108:LEU:HD13	2.49	0.41
2:N:68:LYS:HG2	2:N:69:ASN:H	1.86	0.41
2:N:34:LEU:HD11	2:N:78:ARG:NH1	2.34	0.41
1:O:75:ILE:HG21	1:O:211:PHE:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:255:THR:O	1:S:256:MET:HB2	2.20	0.41
1:S:324:GLU:O	1:S:328:LEU:HB2	2.21	0.41
1:U:60:ASN:HB3	1:U:63:GLU:CB	2.38	0.41
1:W:464:ARG:HG2	1:W:464:ARG:HH11	1.86	0.41
1:W:522:GLU:HB2	1:W:525:ASP:OD2	2.21	0.41
1:W:54:ALA:O	1:W:58:GLU:HG3	2.21	0.41
1:Y:257:THR:HG23	1:Y:260:SER:OG	2.20	0.41
1:Y:592:VAL:HG12	1:Y:593:ALA:N	2.36	0.41
1:1:399:VAL:HG13	1:1:400:LEU:N	2.36	0.41
2:6:24:TRP:HE3	2:6:24:TRP:HA	1.86	0.41
2:6:35:ARG:C	2:6:37:GLN:H	2.24	0.41
1:A:529:LEU:HA	1:A:530:PRO:HD3	1.91	0.41
1:A:635:THR:OG1	1:A:639:VAL:HG21	2.20	0.41
1:E:393:ILE:CD1	1:E:393:ILE:H	2.19	0.41
1:G:291:MET:O	1:G:294:VAL:HB	2.21	0.41
1:G:547:LEU:HD12	1:G:547:LEU:HA	1.92	0.41
1:I:464:ARG:HH11	1:I:464:ARG:HG2	1.86	0.41
1:I:635:THR:OG1	1:I:639:VAL:HG21	2.20	0.41
1:I:69:LEU:H	1:I:69:LEU:HD12	1.85	0.41
1:I:64:ASP:CA	2:J:31:VAL:HB	2.37	0.41
1:K:78:THR:HG22	1:K:215:SER:C	2.41	0.41
2:L:52:SER:H	2:L:55:THR:HG22	1.86	0.41
1:M:417:MET:O	1:M:420:THR:HB	2.20	0.41
1:O:242:PHE:HA	1:O:285:THR:HG22	2.03	0.41
2:P:39:LEU:HD22	2:P:39:LEU:C	2.41	0.41
1:S:76:TYR:HB2	1:S:230:THR:HG23	2.01	0.41
1:W:482:LEU:HB3	1:W:544:ILE:CG1	2.51	0.41
1:W:409:LEU:HD22	1:W:631:THR:O	2.21	0.41
1:Y:96:SER:HB2	1:Y:99:SER:CB	2.51	0.41
1:1:424:GLY:O	1:1:428:VAL:HG23	2.20	0.41
1:1:502:ASP:OD2	1:1:504:ALA:HB3	2.21	0.41
1:3:31:GLY:HA2	2:4:24:TRP:HE1	1.85	0.41
2:4:26:TYR:CD2	2:4:49:TYR:HB3	2.56	0.41
1:A:641:ASN:C	1:A:643:ILE:H	2.24	0.41
2:B:34:LEU:CD1	2:B:39:LEU:HG	2.48	0.41
1:C:257:THR:HG23	1:C:260:SER:OG	2.21	0.41
1:C:82:LEU:O	1:C:219:ALA:HA	2.21	0.41
1:G:424:GLY:O	1:G:428:VAL:HG23	2.20	0.41
1:G:40:TRP:CE2	2:H:42:LEU:HD23	2.56	0.41
1:I:143:PRO:HG3	1:I:193:VAL:CG2	2.49	0.41
2:J:44:ASN:O	2:J:66:SER:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:40:LEU:CD1	2:J:45:ILE:HG12	2.46	0.41
1:K:376:LEU:O	1:K:379:ALA:HB3	2.21	0.41
1:K:538:LEU:H	1:K:538:LEU:CD2	2.30	0.41
1:M:117:SER:HA	1:M:118:PRO:HD3	1.89	0.41
1:M:531:ALA:HB2	1:M:551:THR:OG1	2.21	0.41
1:O:545:ILE:HD12	1:O:661:LEU:CD1	2.50	0.41
1:O:94:ALA:O	1:O:95:VAL:C	2.60	0.41
1:Q:204:LEU:HD23	1:Q:213:TYR:CD2	2.56	0.41
1:Q:459:ILE:HD13	1:Q:494:MET:HE2	2.03	0.41
1:S:456:ALA:HA	1:S:459:ILE:CG2	2.51	0.41
1:U:317:TRP:HD1	1:U:318:LEU:HD23	1.86	0.41
1:U:409:LEU:HD21	1:U:632:THR:CB	2.51	0.41
1:U:91:ASP:HB3	1:U:92:ILE:H	1.61	0.41
1:U:64:ASP:HA	2:V:31:VAL:HG23	2.03	0.41
1:Y:59:ALA:HB2	1:Y:149:TYR:OH	2.21	0.41
1:1:109:PRO:HA	1:1:354:MET:SD	2.61	0.40
1:1:552:PHE:CG	1:1:661:LEU:HD13	2.56	0.40
1:O:134:ILE:HG13	1:1:569:SER:HB2	2.02	0.40
1:5:405:ASN:N	1:5:405:ASN:HD22	2.18	0.40
2:6:42:LEU:HD11	2:6:88:PHE:CZ	2.56	0.40
1:A:501:LEU:HD12	1:A:501:LEU:N	2.36	0.40
1:C:327:VAL:HG23	1:C:426:HIS:CE1	2.55	0.40
1:C:404:TYR:HD2	1:C:449:LEU:HD22	1.85	0.40
1:C:552:PHE:CG	1:C:661:LEU:HD13	2.57	0.40
1:C:97:GLU:HB3	1:C:98:GLY:H	1.70	0.40
1:C:25:LEU:HD23	2:D:89:PHE:CZ	2.56	0.40
1:E:376:LEU:O	1:E:379:ALA:HB3	2.21	0.40
1:E:641:ASN:C	1:E:643:ILE:H	2.24	0.40
2:H:39:LEU:C	2:H:39:LEU:HD12	2.42	0.40
1:I:70:ASN:HA	1:I:73:LYS:CE	2.45	0.40
2:J:26:TYR:CB	2:J:27:PRO:HD2	2.51	0.40
1:M:124:ALA:HB3	1:M:125:PRO:HD3	2.02	0.40
1:M:544:ILE:HG22	1:M:553:ILE:HG12	2.02	0.40
1:O:27:LEU:O	1:O:28:ASP:HB2	2.21	0.40
1:O:91:ASP:OD2	1:O:317:TRP:HH2	2.04	0.40
1:O:459:ILE:HG21	1:O:494:MET:HG2	2.04	0.40
2:P:68:LYS:HG2	2:P:69:ASN:H	1.86	0.40
1:Q:317:TRP:HD1	1:Q:318:LEU:HD23	1.86	0.40
2:R:37:GLN:CG	2:R:38:HIS:H	2.34	0.40
1:S:376:LEU:O	1:S:379:ALA:HB3	2.20	0.40
1:S:61:VAL:HG13	2:T:85:VAL:HG22	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:126:ALA:O	2:V:128:LEU:HD22	2.21	0.40
2:V:39:LEU:N	2:V:39:LEU:CD1	2.84	0.40
2:X:93:LEU:CB	2:X:108:LEU:HD13	2.49	0.40
1:Y:213:TYR:N	1:Y:214:PRO:CD	2.83	0.40
1:Y:419:GLU:O	1:Y:423:ILE:HG13	2.21	0.40
1:Y:475:PHE:CG	1:Y:476:SER:N	2.89	0.40
1:Y:78:THR:HG22	1:Y:228:ILE:HD12	2.02	0.40
1:Y:57:ARG:HD3	2:Z:39:LEU:HG	2.03	0.40
1:1:367:LEU:HG	1:1:368:THR:H	1.86	0.40
1:1:395:GLY:O	1:1:399:VAL:HG12	2.21	0.40
1:1:641:ASN:C	1:1:643:ILE:H	2.24	0.40
1:3:603:GLN:HG2	1:3:671:ALA:O	2.21	0.40
1:5:488:ARG:NH1	1:5:492:LEU:HD12	2.37	0.40
1:5:437:THR:HG22	1:5:528:HIS:ND1	2.36	0.40
1:A:531:ALA:HB2	1:A:551:THR:OG1	2.22	0.40
2:D:121:GLU:N	2:D:121:GLU:OE1	2.54	0.40
1:E:250:PHE:O	1:E:254:VAL:HG23	2.21	0.40
1:E:320:LYS:HA	1:E:377:ARG:CD	2.40	0.40
1:G:92:ILE:CG2	1:G:313:VAL:HG12	2.46	0.40
1:I:501:LEU:HD12	1:I:501:LEU:N	2.36	0.40
1:K:554:ILE:HD12	1:K:554:ILE:N	2.37	0.40
1:M:183:LYS:HE3	1:M:191:GLU:OE1	2.20	0.40
1:M:538:LEU:HD23	1:M:538:LEU:N	2.32	0.40
1:O:664:ASN:O	1:O:666:THR:N	2.54	0.40
1:Q:424:GLY:O	1:Q:428:VAL:HG23	2.21	0.40
1:Q:501:LEU:HD12	1:Q:501:LEU:N	2.36	0.40
1:S:86:LEU:HD13	1:S:251:SER:HA	2.03	0.40
1:U:529:LEU:HA	1:U:530:PRO:HD3	1.89	0.40
1:U:545:ILE:HD12	1:U:661:LEU:CD1	2.51	0.40
1:U:68:MET:O	1:U:71:ARG:HB3	2.22	0.40
1:W:213:TYR:N	1:W:214:PRO:CD	2.83	0.40
1:W:488:ARG:NH1	1:W:492:LEU:HD12	2.37	0.40
2:X:38:HIS:HB2	2:X:39:LEU:H	1.77	0.40
2:Z:127:ASN:HA	1:1:81:THR:O	2.21	0.40
2:Z:130:ARG:HB2	2:Z:131:TYR:CE2	2.56	0.40
1:1:257:THR:HG23	1:1:260:SER:OG	2.21	0.40
1:1:572:TYR:HB2	1:1:624:GLU:O	2.21	0.40
1:3:298:PHE:CE1	1:3:328:LEU:HD23	2.57	0.40
1:3:376:LEU:O	1:3:379:ALA:HB3	2.21	0.40
1:5:101:GLN:HA	1:5:120:CYS:O	2.21	0.40
1:5:213:TYR:N	1:5:214:PRO:CD	2.83	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:54:ALA:O	1:5:58:GLU:HG3	2.21	0.40
1:A:324:GLU:O	1:A:328:LEU:HB2	2.21	0.40
1:A:322:PHE:HE1	1:A:343:MET:O	2.05	0.40
1:A:24:LYS:CB	1:A:37:THR:HG22	2.50	0.40
1:A:400:LEU:HD22	1:A:446:TYR:CZ	2.57	0.40
1:C:533:LYS:HG3	1:C:533:LYS:H	1.67	0.40
1:E:59:ALA:HB2	1:E:149:TYR:OH	2.22	0.40
1:E:428:VAL:HG21	1:E:446:TYR:CE1	2.56	0.40
1:E:589:GLN:H	1:E:589:GLN:HG2	1.73	0.40
1:G:204:LEU:HD23	1:G:213:TYR:CD2	2.56	0.40
1:I:108:HIS:C	1:I:110:GLY:H	2.24	0.40
1:I:21:SER:HB3	1:I:41:THR:CB	2.33	0.40
1:I:66:ALA:CA	2:J:128:LEU:HD22	2.51	0.40
1:K:428:VAL:HG21	1:K:446:TYR:CE1	2.56	0.40
1:K:475:PHE:CG	1:K:476:SER:N	2.89	0.40
1:K:572:TYR:HB2	1:K:624:GLU:O	2.20	0.40
1:M:101:GLN:H	1:M:101:GLN:HG3	1.72	0.40
1:M:399:VAL:HG13	1:M:400:LEU:N	2.36	0.40
1:M:424:GLY:O	1:M:428:VAL:HG23	2.22	0.40
1:M:65:LEU:HD12	2:N:128:LEU:CD1	2.50	0.40
1:Q:108:HIS:O	1:Q:110:GLY:N	2.54	0.40
1:Q:475:PHE:CG	1:Q:476:SER:N	2.89	0.40
1:Q:97:GLU:CG	1:Q:98:GLY:H	2.21	0.40
1:S:317:TRP:HD1	1:S:318:LEU:HD23	1.85	0.40
2:T:34:LEU:HA	2:T:34:LEU:HD12	1.95	0.40
1:U:459:ILE:HD13	1:U:494:MET:HE2	2.02	0.40
1:U:475:PHE:CG	1:U:476:SER:N	2.89	0.40
1:U:615:CYS:C	1:U:617:PHE:H	2.24	0.40
1:U:637:GLN:HE21	1:U:641:ASN:ND2	2.19	0.40
1:W:81:THR:OG1	1:W:214:PRO:O	2.39	0.40
1:Y:102:VAL:HB	1:Y:121:MET:HG2	2.02	0.40
1:1:323:PHE:CZ	1:1:423:ILE:HG23	2.57	0.40
1:5:429:LEU:HA	1:5:432:LEU:HD12	2.04	0.40
1:A:108:HIS:HB2	1:A:112:ILE:HD11	2.04	0.40
1:A:102:VAL:HG21	1:A:351:LEU:HD13	2.04	0.40
1:A:612:CYS:HA	1:A:640:GLN:NE2	2.37	0.40
1:C:209:GLY:O	1:C:211:PHE:N	2.55	0.40
1:C:400:LEU:HD22	1:C:446:TYR:CZ	2.57	0.40
1:C:501:LEU:HD12	1:C:501:LEU:N	2.36	0.40
1:G:540:LYS:O	1:G:555:SER:HB2	2.22	0.40
1:I:367:LEU:HG	1:I:368:THR:H	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:475:PHE:CG	1:I:476:SER:N	2.89	0.40
1:I:90:VAL:O	1:I:90:VAL:HG13	2.22	0.40
1:K:181:THR:CG2	1:K:195:SER:HB3	2.36	0.40
1:M:330:ASP:O	1:M:334:ILE:HG13	2.21	0.40
1:O:323:PHE:CZ	1:O:423:ILE:HG23	2.56	0.40
1:O:62:THR:O	2:P:33:GLN:HA	2.22	0.40
2:P:86:VAL:O	2:P:90:ILE:HG13	2.22	0.40
1:Q:376:LEU:O	1:Q:379:ALA:HB3	2.21	0.40
1:S:68:MET:SD	2:T:81:ASN:ND2	2.93	0.40
1:W:173:MET:HB3	1:W:178:LEU:HD13	2.03	0.40
1:W:69:LEU:O	1:W:73:LYS:HG2	2.21	0.40
2:4:29:CYS:O	2:4:131:TYR:HB2	2.22	0.40
1:5:192:HIS:HA	1:5:234:HIS:CE1	2.56	0.40
1:5:270:VAL:HG13	1:5:516:ARG:HD2	2.04	0.40
1:5:409:LEU:HD11	1:5:632:THR:OG1	2.21	0.40
1:5:428:VAL:O	1:5:432:LEU:HD12	2.22	0.40
1:3:78:THR:HG23	2:6:124:PHE:O	2.22	0.40
1:A:528:HIS:O	1:A:529:LEU:C	2.59	0.40
1:C:540:LYS:O	1:C:555:SER:HB2	2.22	0.40
1:C:572:TYR:HB2	1:C:624:GLU:O	2.22	0.40
1:C:83:GLY:HA2	1:C:220:GLN:O	2.22	0.40
2:D:68:LYS:HG2	2:D:69:ASN:H	1.86	0.40
1:E:173:MET:HB3	1:E:178:LEU:HD13	2.03	0.40
1:E:399:VAL:HG13	1:E:400:LEU:N	2.37	0.40
1:E:419:GLU:O	1:E:423:ILE:HG13	2.21	0.40
1:E:524:ARG:HA	1:E:527:TRP:CE2	2.56	0.40
1:G:107:VAL:HG12	1:G:354:MET:CE	2.51	0.40
1:I:291:MET:O	1:I:294:VAL:HB	2.21	0.40
1:I:330:ASP:O	1:I:334:ILE:HG13	2.21	0.40
1:I:69:LEU:N	1:I:69:LEU:HD12	2.36	0.40
1:I:56:TRP:CE3	2:J:42:LEU:HD21	2.57	0.40
1:K:324:GLU:O	1:K:328:LEU:HB2	2.21	0.40
1:M:317:TRP:HD1	1:M:318:LEU:HD23	1.85	0.40
1:O:336:TYR:C	1:O:338:ALA:N	2.75	0.40
1:Q:160:LEU:HD11	1:Q:336:TYR:HB3	2.04	0.40
1:Q:242:PHE:HA	1:Q:285:THR:HG22	2.03	0.40
1:Q:399:VAL:HG13	1:Q:400:LEU:N	2.37	0.40
1:Q:417:MET:O	1:Q:420:THR:HB	2.21	0.40
1:Q:429:LEU:HD11	1:Q:433:ARG:HH12	1.87	0.40
1:Q:589:GLN:H	1:Q:589:GLN:HG2	1.72	0.40
1:S:545:ILE:HD12	1:S:661:LEU:CD1	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:524:ARG:H	1:W:524:ARG:HG2	1.61	0.40
2:X:130:ARG:HG2	2:X:130:ARG:O	2.21	0.40
1:Y:200:LYS:HA	1:Y:223:ASP:O	2.22	0.40
1:Y:615:CYS:C	1:Y:617:PHE:H	2.24	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	1	651/653 (100%)	549 (84%)	83 (13%)	19 (3%)	4	33
1	3	651/653 (100%)	556 (85%)	78 (12%)	17 (3%)	5	35
1	5	651/653 (100%)	552 (85%)	82 (13%)	17 (3%)	5	35
1	A	651/653 (100%)	545 (84%)	87 (13%)	19 (3%)	4	33
1	C	651/653 (100%)	550 (84%)	84 (13%)	17 (3%)	5	35
1	E	651/653 (100%)	551 (85%)	84 (13%)	16 (2%)	5	36
1	G	651/653 (100%)	555 (85%)	82 (13%)	14 (2%)	6	39
1	I	651/653 (100%)	551 (85%)	82 (13%)	18 (3%)	5	34
1	K	651/653 (100%)	543 (83%)	87 (13%)	21 (3%)	4	31
1	M	651/653 (100%)	547 (84%)	83 (13%)	21 (3%)	4	31
1	O	651/653 (100%)	534 (82%)	93 (14%)	24 (4%)	3	28
1	Q	651/653 (100%)	545 (84%)	83 (13%)	23 (4%)	3	30
1	S	651/653 (100%)	549 (84%)	80 (12%)	22 (3%)	3	31
1	U	651/653 (100%)	543 (83%)	86 (13%)	22 (3%)	3	31
1	W	651/653 (100%)	551 (85%)	77 (12%)	23 (4%)	3	30
1	Y	651/653 (100%)	547 (84%)	86 (13%)	18 (3%)	5	34

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
2	2	106/108 (98%)	82 (77%)	16 (15%)	8 (8%)	1 12
2	4	106/108 (98%)	81 (76%)	18 (17%)	7 (7%)	1 16
2	6	106/108 (98%)	80 (76%)	18 (17%)	8 (8%)	1 12
2	B	106/108 (98%)	85 (80%)	14 (13%)	7 (7%)	1 16
2	D	106/108 (98%)	80 (76%)	15 (14%)	11 (10%)	0 7
2	F	106/108 (98%)	78 (74%)	20 (19%)	8 (8%)	1 12
2	H	106/108 (98%)	82 (77%)	17 (16%)	7 (7%)	1 16
2	J	106/108 (98%)	81 (76%)	17 (16%)	8 (8%)	1 12
2	L	106/108 (98%)	82 (77%)	17 (16%)	7 (7%)	1 16
2	N	106/108 (98%)	83 (78%)	16 (15%)	7 (7%)	1 16
2	P	106/108 (98%)	85 (80%)	13 (12%)	8 (8%)	1 12
2	R	106/108 (98%)	84 (79%)	15 (14%)	7 (7%)	1 16
2	T	106/108 (98%)	82 (77%)	16 (15%)	8 (8%)	1 12
2	V	106/108 (98%)	81 (76%)	15 (14%)	10 (9%)	0 9
2	X	106/108 (98%)	82 (77%)	15 (14%)	9 (8%)	1 10
2	Z	106/108 (98%)	83 (78%)	15 (14%)	8 (8%)	1 12
All	All	12112/12176 (100%)	10079 (83%)	1594 (13%)	439 (4%)	3 29

All (439) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	29	ILE
1	A	97	GLU
2	B	25	ALA
1	C	97	GLU
2	D	25	ALA
1	E	79	SER
1	E	97	GLU
1	G	29	ILE
2	H	40	LEU
1	I	22	GLU
1	I	79	SER
1	I	97	GLU
2	J	33	GLN
1	K	60	ASN
1	M	79	SER

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Mol	Chain	Res	Type
1	M	97	GLU
1	M	105	SER
1	M	113	SER
1	O	22	GLU
1	O	29	ILE
1	O	60	ASN
2	P	35	ARG
1	S	79	SER
1	S	105	SER
1	U	60	ASN
1	U	97	GLU
1	W	23	VAL
1	W	30	GLU
1	W	60	ASN
1	W	63	GLU
1	Y	60	ASN
1	Y	95	VAL
1	1	60	ASN
1	1	79	SER
1	3	60	ASN
1	A	48	PRO
2	B	56	CYS
1	C	48	PRO
1	C	60	ASN
1	C	110	GLY
1	C	346	TYR
2	D	34	LEU
2	D	36	ALA
2	D	56	CYS
2	D	104	LEU
1	E	48	PRO
1	E	60	ASN
2	F	25	ALA
2	F	56	CYS
2	F	104	LEU
1	G	48	PRO
1	G	60	ASN
2	H	56	CYS
2	H	104	LEU
1	I	48	PRO
1	I	60	ASN
2	J	39	LEU

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Mol	Chain	Res	Type
2	J	56	CYS
1	K	30	GLU
1	K	48	PRO
1	K	98	GLY
2	L	38	HIS
2	L	56	CYS
1	M	48	PRO
1	M	60	ASN
1	M	63	GLU
2	N	56	CYS
2	N	104	LEU
1	O	21	SER
1	O	28	ASP
1	O	48	PRO
1	O	63	GLU
1	O	100	MET
2	P	33	GLN
2	P	56	CYS
2	P	104	LEU
1	Q	48	PRO
1	Q	60	ASN
1	Q	63	GLU
1	Q	95	VAL
2	R	56	CYS
2	R	104	LEU
1	S	30	GLU
1	S	48	PRO
1	S	60	ASN
2	T	36	ALA
2	T	56	CYS
2	T	104	LEU
1	U	27	LEU
1	U	48	PRO
1	U	79	SER
1	U	111	VAL
1	U	112	ILE
2	V	38	HIS
2	V	56	CYS
2	V	104	LEU
1	W	48	PRO
1	W	61	VAL
1	W	97	GLU

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Mol	Chain	Res	Type
2	X	33	GLN
2	X	35	ARG
2	X	56	CYS
1	Y	48	PRO
1	Y	94	ALA
2	Z	56	CYS
2	Z	104	LEU
1	1	48	PRO
1	1	63	GLU
2	2	25	ALA
2	2	56	CYS
2	2	104	LEU
1	3	27	LEU
1	3	48	PRO
1	3	102	VAL
1	3	115	LEU
1	3	671	ALA
2	4	56	CYS
2	4	130	ARG
1	5	28	ASP
1	5	48	PRO
1	5	60	ASN
1	5	99	SER
1	5	100	MET
2	6	40	LEU
2	6	56	CYS
1	A	21	SER
1	A	28	ASP
1	A	60	ASN
1	A	281	PRO
1	A	384	PRO
2	B	54	GLN
2	B	104	LEU
1	C	281	PRO
1	C	384	PRO
2	D	32	THR
2	D	54	GLN
2	D	121	GLU
1	E	281	PRO
1	E	384	PRO
1	E	671	ALA
2	F	37	GLN

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Mol	Chain	Res	Type
2	F	54	GLN
1	G	281	PRO
1	G	384	PRO
2	H	121	GLU
1	I	21	SER
1	I	281	PRO
1	I	384	PRO
2	J	54	GLN
2	J	104	LEU
1	K	22	GLU
1	K	28	ASP
1	K	96	SER
1	K	281	PRO
1	K	384	PRO
2	L	55	THR
2	L	104	LEU
2	L	121	GLU
1	M	96	SER
1	M	281	PRO
1	M	384	PRO
2	N	38	HIS
1	O	30	GLU
1	O	95	VAL
1	O	101	GLN
1	O	281	PRO
1	O	384	PRO
2	P	54	GLN
1	Q	81	THR
1	Q	281	PRO
1	Q	384	PRO
1	S	63	GLU
1	S	78	THR
1	S	97	GLU
1	S	281	PRO
1	S	384	PRO
2	T	55	THR
1	U	281	PRO
1	U	384	PRO
2	V	54	GLN
1	W	65	LEU
1	W	91	ASP
1	W	95	VAL

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Mol	Chain	Res	Type
1	W	281	PRO
1	W	384	PRO
2	X	54	GLN
2	X	104	LEU
1	Y	22	GLU
1	Y	281	PRO
1	Y	384	PRO
1	Y	595	GLU
2	Z	25	ALA
1	1	97	GLU
1	1	281	PRO
1	1	384	PRO
1	3	97	GLU
1	3	281	PRO
1	3	384	PRO
2	4	55	THR
2	4	104	LEU
1	5	281	PRO
1	5	343	MET
1	5	384	PRO
2	6	54	GLN
2	6	104	LEU
1	A	79	SER
1	A	585	ASN
1	A	595	GLU
1	A	671	ALA
2	B	55	THR
2	B	121	GLU
1	C	111	VAL
1	C	410	PHE
1	C	595	GLU
2	D	53	ASN
2	D	55	THR
1	E	30	GLU
1	E	410	PHE
1	E	595	GLU
2	F	55	THR
2	F	121	GLU
1	G	410	PHE
1	G	595	GLU
2	H	54	GLN
2	H	55	THR

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Mol	Chain	Res	Type
1	I	30	GLU
1	I	410	PHE
1	I	585	ASN
1	I	595	GLU
2	J	55	THR
2	J	121	GLU
1	K	63	GLU
1	K	410	PHE
1	K	595	GLU
2	L	54	GLN
1	M	95	VAL
1	M	209	GLY
1	M	247	LYS
1	M	410	PHE
1	M	595	GLU
1	M	671	ALA
2	N	53	ASN
2	N	54	GLN
2	N	55	THR
2	N	121	GLU
1	O	209	GLY
1	O	410	PHE
1	O	585	ASN
1	O	595	GLU
2	P	55	THR
2	P	121	GLU
1	Q	28	ASP
1	Q	113	SER
1	Q	209	GLY
1	Q	410	PHE
1	Q	526	ALA
1	Q	595	GLU
2	R	39	LEU
2	R	54	GLN
2	R	55	THR
2	R	121	GLU
1	S	209	GLY
1	S	247	LYS
1	S	410	PHE
1	S	595	GLU
2	T	25	ALA
2	T	53	ASN

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Mol	Chain	Res	Type
2	T	54	GLN
2	T	121	GLU
1	U	29	ILE
1	U	99	SER
1	U	101	GLN
1	U	410	PHE
1	U	595	GLU
1	U	671	ALA
2	V	32	THR
2	V	55	THR
2	V	121	GLU
1	W	64	ASP
1	W	410	PHE
1	W	595	GLU
2	X	55	THR
2	X	121	GLU
1	Y	111	VAL
1	Y	247	LYS
2	Z	54	GLN
2	Z	55	THR
2	Z	121	GLU
2	Z	128	LEU
1	1	92	ILE
1	1	108	HIS
1	1	247	LYS
1	1	410	PHE
1	1	585	ASN
1	1	595	GLU
1	1	671	ALA
2	2	54	GLN
2	2	55	THR
2	2	121	GLU
1	3	28	ASP
1	3	595	GLU
2	4	54	GLN
1	5	345	SER
1	5	595	GLU
2	6	55	THR
1	A	96	SER
1	A	205	PRO
1	A	247	LYS
1	A	410	PHE

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Mol	Chain	Res	Type
1	A	437	THR
2	B	53	ASN
1	C	209	GLY
1	C	246	LEU
1	C	247	LYS
1	C	437	THR
2	D	29	CYS
1	E	63	GLU
1	E	113	SER
1	E	247	LYS
2	F	53	ASN
1	G	109	PRO
1	G	247	LYS
1	G	585	ASN
2	H	53	ASN
1	I	247	LYS
2	J	53	ASN
1	K	104	ALA
1	K	247	LYS
1	K	528	HIS
1	K	585	ASN
1	K	671	ALA
2	L	53	ASN
1	M	99	SER
1	M	437	THR
1	M	585	ASN
1	O	65	LEU
1	O	247	LYS
1	O	346	TYR
2	P	53	ASN
1	Q	79	SER
1	Q	247	LYS
1	Q	437	THR
1	Q	671	ALA
2	R	53	ASN
1	S	585	ASN
1	U	91	ASP
1	U	209	GLY
1	U	247	LYS
2	V	28	CYS
2	V	53	ASN
1	W	29	ILE

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Mol	Chain	Res	Type
1	W	247	LYS
1	W	671	ALA
2	X	53	ASN
1	Y	89	PRO
1	Y	410	PHE
2	Z	53	ASN
1	1	437	THR
2	2	34	LEU
2	2	53	ASN
1	3	71	ARG
1	3	247	LYS
1	3	410	PHE
2	4	53	ASN
1	5	30	GLU
1	5	247	LYS
1	5	410	PHE
1	5	585	ASN
2	6	46	SER
2	6	53	ASN
2	6	121	GLU
1	C	63	GLU
1	C	205	PRO
1	E	205	PRO
1	G	205	PRO
1	I	205	PRO
1	K	209	GLY
1	K	437	THR
1	O	205	PRO
1	Q	585	ASN
1	S	108	HIS
1	S	205	PRO
1	S	208	ARG
1	S	246	LEU
1	U	208	ARG
2	V	43	GLU
1	W	104	ALA
2	X	27	PRO
1	Y	208	ARG
1	Y	209	GLY
1	Y	585	ASN
2	4	121	GLU
1	A	408	PRO

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Mol	Chain	Res	Type
1	C	408	PRO
1	E	408	PRO
1	G	23	VAL
1	G	408	PRO
1	I	209	GLY
1	I	408	PRO
1	K	205	PRO
1	K	408	PRO
1	M	205	PRO
1	M	408	PRO
1	O	108	HIS
1	O	408	PRO
1	Q	29	ILE
1	Q	205	PRO
1	Q	408	PRO
1	S	408	PRO
1	U	205	PRO
1	U	408	PRO
1	W	205	PRO
1	W	408	PRO
1	Y	205	PRO
1	Y	408	PRO
1	1	205	PRO
1	1	408	PRO
1	3	205	PRO
1	3	408	PRO
1	5	205	PRO
1	5	209	GLY
1	5	408	PRO
1	A	209	GLY
1	E	209	GLY
1	I	107	VAL
1	Q	112	ILE
1	S	95	VAL
1	Y	112	ILE
1	1	209	GLY
1	3	209	GLY
1	G	209	GLY
1	I	112	ILE
1	O	112	ILE
1	Q	109	PRO
1	U	31	GLY

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Mol	Chain	Res	Type
1	W	107	VAL
1	W	209	GLY
1	S	107	VAL
1	1	112	ILE

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	1	559/559 (100%)	528 (94%)	31 (6%)	21 56
1	3	559/559 (100%)	528 (94%)	31 (6%)	21 56
1	5	559/559 (100%)	532 (95%)	27 (5%)	25 60
1	A	559/559 (100%)	522 (93%)	37 (7%)	16 51
1	C	559/559 (100%)	522 (93%)	37 (7%)	16 51
1	E	559/559 (100%)	530 (95%)	29 (5%)	23 58
1	G	559/559 (100%)	531 (95%)	28 (5%)	24 59
1	I	559/559 (100%)	529 (95%)	30 (5%)	22 57
1	K	559/559 (100%)	532 (95%)	27 (5%)	25 60
1	M	559/559 (100%)	534 (96%)	25 (4%)	27 62
1	O	559/559 (100%)	527 (94%)	32 (6%)	20 55
1	Q	559/559 (100%)	525 (94%)	34 (6%)	18 53
1	S	559/559 (100%)	528 (94%)	31 (6%)	21 56
1	U	559/559 (100%)	524 (94%)	35 (6%)	18 52
1	W	559/559 (100%)	526 (94%)	33 (6%)	19 54
1	Y	559/559 (100%)	533 (95%)	26 (5%)	26 61
2	2	95/95 (100%)	84 (88%)	11 (12%)	5 29
2	4	95/95 (100%)	87 (92%)	8 (8%)	11 42
2	6	95/95 (100%)	85 (90%)	10 (10%)	7 33
2	B	95/95 (100%)	87 (92%)	8 (8%)	11 42

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	D	95/95 (100%)	86 (90%)	9 (10%)	8 37
2	F	95/95 (100%)	85 (90%)	10 (10%)	7 33
2	H	95/95 (100%)	88 (93%)	7 (7%)	13 46
2	J	95/95 (100%)	84 (88%)	11 (12%)	5 29
2	L	95/95 (100%)	85 (90%)	10 (10%)	7 33
2	N	95/95 (100%)	85 (90%)	10 (10%)	7 33
2	P	95/95 (100%)	83 (87%)	12 (13%)	4 24
2	R	95/95 (100%)	85 (90%)	10 (10%)	7 33
2	T	95/95 (100%)	84 (88%)	11 (12%)	5 29
2	V	95/95 (100%)	86 (90%)	9 (10%)	8 37
2	X	95/95 (100%)	85 (90%)	10 (10%)	7 33
2	Z	95/95 (100%)	85 (90%)	10 (10%)	7 33
All	All	10464/10464 (100%)	9815 (94%)	649 (6%)	18 53

All (649) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	29	ILE
1	A	60	ASN
1	A	61	VAL
1	A	62	THR
1	A	65	LEU
1	A	72	TYR
1	A	74	LEU
1	A	88	GLU
1	A	91	ASP
1	A	103	ASP
1	A	106	LYS
1	A	108	HIS
1	A	116	ASN
1	A	136	THR
1	A	153	CYS
1	A	155	LEU
1	A	157	TYR
1	A	179	MET
1	A	212	SER
1	A	218	SER
1	A	223	ASP

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Mol	Chain	Res	Type
1	A	257	THR
1	A	339	THR
1	A	385	LYS
1	A	389	TYR
1	A	409	LEU
1	A	483	ARG
1	A	485	ASP
1	A	486	LEU
1	A	492	LEU
1	A	494	MET
1	A	523	ASP
1	A	524	ARG
1	A	527	TRP
1	A	547	LEU
1	A	584	MET
1	A	615	CYS
2	B	24	TRP
2	B	31	VAL
2	B	34	LEU
2	B	42	LEU
2	B	55	THR
2	B	79	CYS
2	B	113	THR
2	B	121	GLU
1	C	20	LEU
1	C	25	LEU
1	C	30	GLU
1	C	60	ASN
1	C	64	ASP
1	C	70	ASN
1	C	72	TYR
1	C	74	LEU
1	C	82	LEU
1	C	91	ASP
1	C	97	GLU
1	C	105	SER
1	C	112	ILE
1	C	113	SER
1	C	136	THR
1	C	153	CYS
1	C	155	LEU
1	C	179	MET

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Mol	Chain	Res	Type
1	C	212	SER
1	C	218	SER
1	C	223	ASP
1	C	257	THR
1	C	339	THR
1	C	385	LYS
1	C	389	TYR
1	C	409	LEU
1	C	483	ARG
1	C	485	ASP
1	C	486	LEU
1	C	492	LEU
1	C	494	MET
1	C	523	ASP
1	C	524	ARG
1	C	529	LEU
1	C	547	LEU
1	C	584	MET
1	C	615	CYS
2	D	31	VAL
2	D	32	THR
2	D	35	ARG
2	D	38	HIS
2	D	39	LEU
2	D	55	THR
2	D	113	THR
2	D	121	GLU
2	D	130	ARG
1	E	22	GLU
1	E	28	ASP
1	E	60	ASN
1	E	61	VAL
1	E	65	LEU
1	E	74	LEU
1	E	91	ASP
1	E	95	VAL
1	E	136	THR
1	E	153	CYS
1	E	155	LEU
1	E	179	MET
1	E	212	SER
1	E	218	SER

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Mol	Chain	Res	Type
1	E	223	ASP
1	E	257	THR
1	E	339	THR
1	E	385	LYS
1	E	389	TYR
1	E	409	LEU
1	E	483	ARG
1	E	485	ASP
1	E	486	LEU
1	E	492	LEU
1	E	494	MET
1	E	524	ARG
1	E	547	LEU
1	E	584	MET
1	E	615	CYS
2	F	29	CYS
2	F	31	VAL
2	F	37	GLN
2	F	39	LEU
2	F	43	GLU
2	F	55	THR
2	F	79	CYS
2	F	113	THR
2	F	121	GLU
2	F	127	ASN
1	G	25	LEU
1	G	30	GLU
1	G	60	ASN
1	G	62	THR
1	G	82	LEU
1	G	97	GLU
1	G	100	MET
1	G	136	THR
1	G	153	CYS
1	G	155	LEU
1	G	179	MET
1	G	212	SER
1	G	218	SER
1	G	223	ASP
1	G	257	THR
1	G	339	THR
1	G	385	LYS

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Mol	Chain	Res	Type
1	G	389	TYR
1	G	409	LEU
1	G	483	ARG
1	G	485	ASP
1	G	486	LEU
1	G	492	LEU
1	G	494	MET
1	G	523	ASP
1	G	547	LEU
1	G	584	MET
1	G	615	CYS
2	H	26	TYR
2	H	31	VAL
2	H	35	ARG
2	H	55	THR
2	H	79	CYS
2	H	113	THR
2	H	121	GLU
1	I	22	GLU
1	I	60	ASN
1	I	61	VAL
1	I	72	TYR
1	I	74	LEU
1	I	92	ILE
1	I	103	ASP
1	I	113	SER
1	I	115	LEU
1	I	136	THR
1	I	153	CYS
1	I	155	LEU
1	I	179	MET
1	I	212	SER
1	I	218	SER
1	I	223	ASP
1	I	257	THR
1	I	345	SER
1	I	385	LYS
1	I	389	TYR
1	I	409	LEU
1	I	483	ARG
1	I	485	ASP
1	I	486	LEU

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Mol	Chain	Res	Type
1	I	492	LEU
1	I	494	MET
1	I	523	ASP
1	I	547	LEU
1	I	584	MET
1	I	615	CYS
2	J	24	TRP
2	J	26	TYR
2	J	31	VAL
2	J	32	THR
2	J	39	LEU
2	J	40	LEU
2	J	43	GLU
2	J	55	THR
2	J	79	CYS
2	J	113	THR
2	J	121	GLU
1	K	60	ASN
1	K	61	VAL
1	K	78	THR
1	K	79	SER
1	K	97	GLU
1	K	99	SER
1	K	113	SER
1	K	136	THR
1	K	153	CYS
1	K	155	LEU
1	K	179	MET
1	K	212	SER
1	K	218	SER
1	K	223	ASP
1	K	257	THR
1	K	339	THR
1	K	385	LYS
1	K	389	TYR
1	K	409	LEU
1	K	483	ARG
1	K	485	ASP
1	K	486	LEU
1	K	492	LEU
1	K	494	MET
1	K	547	LEU

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Mol	Chain	Res	Type
1	K	584	MET
1	K	615	CYS
2	L	24	TRP
2	L	26	TYR
2	L	29	CYS
2	L	31	VAL
2	L	35	ARG
2	L	42	LEU
2	L	55	THR
2	L	79	CYS
2	L	113	THR
2	L	121	GLU
1	M	60	ASN
1	M	62	THR
1	M	65	LEU
1	M	74	LEU
1	M	103	ASP
1	M	136	THR
1	M	153	CYS
1	M	155	LEU
1	M	179	MET
1	M	212	SER
1	M	218	SER
1	M	223	ASP
1	M	257	THR
1	M	288	LEU
1	M	389	TYR
1	M	409	LEU
1	M	483	ARG
1	M	485	ASP
1	M	486	LEU
1	M	492	LEU
1	M	494	MET
1	M	529	LEU
1	M	547	LEU
1	M	584	MET
1	M	615	CYS
2	N	24	TRP
2	N	26	TYR
2	N	34	LEU
2	N	38	HIS
2	N	39	LEU

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Mol	Chain	Res	Type
2	N	42	LEU
2	N	55	THR
2	N	113	THR
2	N	121	GLU
2	N	130	ARG
1	O	22	GLU
1	O	23	VAL
1	O	60	ASN
1	O	65	LEU
1	O	72	TYR
1	O	74	LEU
1	O	97	GLU
1	O	101	GLN
1	O	112	ILE
1	O	113	SER
1	O	116	ASN
1	O	136	THR
1	O	153	CYS
1	O	155	LEU
1	O	179	MET
1	O	212	SER
1	O	218	SER
1	O	223	ASP
1	O	257	THR
1	O	339	THR
1	O	344	GLN
1	O	385	LYS
1	O	389	TYR
1	O	409	LEU
1	O	483	ARG
1	O	485	ASP
1	O	486	LEU
1	O	492	LEU
1	O	494	MET
1	O	547	LEU
1	O	584	MET
1	O	615	CYS
2	P	24	TRP
2	P	31	VAL
2	P	32	THR
2	P	34	LEU
2	P	39	LEU

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Mol	Chain	Res	Type
2	P	40	LEU
2	P	43	GLU
2	P	55	THR
2	P	79	CYS
2	P	113	THR
2	P	121	GLU
2	P	128	LEU
1	Q	30	GLU
1	Q	60	ASN
1	Q	61	VAL
1	Q	70	ASN
1	Q	72	TYR
1	Q	73	LYS
1	Q	74	LEU
1	Q	77	LYS
1	Q	82	LEU
1	Q	96	SER
1	Q	101	GLN
1	Q	112	ILE
1	Q	136	THR
1	Q	153	CYS
1	Q	155	LEU
1	Q	179	MET
1	Q	212	SER
1	Q	218	SER
1	Q	223	ASP
1	Q	257	THR
1	Q	339	THR
1	Q	385	LYS
1	Q	389	TYR
1	Q	409	LEU
1	Q	483	ARG
1	Q	485	ASP
1	Q	486	LEU
1	Q	492	LEU
1	Q	494	MET
1	Q	522	GLU
1	Q	523	ASP
1	Q	547	LEU
1	Q	584	MET
1	Q	615	CYS
2	R	31	VAL

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Mol	Chain	Res	Type
2	R	32	THR
2	R	38	HIS
2	R	39	LEU
2	R	42	LEU
2	R	55	THR
2	R	79	CYS
2	R	113	THR
2	R	121	GLU
2	R	128	LEU
1	S	22	GLU
1	S	60	ASN
1	S	64	ASP
1	S	65	LEU
1	S	79	SER
1	S	82	LEU
1	S	91	ASP
1	S	103	ASP
1	S	113	SER
1	S	136	THR
1	S	153	CYS
1	S	155	LEU
1	S	179	MET
1	S	212	SER
1	S	218	SER
1	S	223	ASP
1	S	257	THR
1	S	345	SER
1	S	385	LYS
1	S	389	TYR
1	S	409	LEU
1	S	483	ARG
1	S	485	ASP
1	S	486	LEU
1	S	492	LEU
1	S	494	MET
1	S	523	ASP
1	S	524	ARG
1	S	547	LEU
1	S	584	MET
1	S	615	CYS
2	T	24	TRP
2	T	26	TYR

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Mol	Chain	Res	Type
2	T	31	VAL
2	T	32	THR
2	T	34	LEU
2	T	37	GLN
2	T	39	LEU
2	T	40	LEU
2	T	55	THR
2	T	113	THR
2	T	121	GLU
1	U	20	LEU
1	U	25	LEU
1	U	27	LEU
1	U	60	ASN
1	U	72	TYR
1	U	77	LYS
1	U	91	ASP
1	U	96	SER
1	U	100	MET
1	U	101	GLN
1	U	103	ASP
1	U	108	HIS
1	U	112	ILE
1	U	116	ASN
1	U	136	THR
1	U	153	CYS
1	U	155	LEU
1	U	179	MET
1	U	212	SER
1	U	218	SER
1	U	223	ASP
1	U	257	THR
1	U	339	THR
1	U	345	SER
1	U	385	LYS
1	U	389	TYR
1	U	409	LEU
1	U	483	ARG
1	U	485	ASP
1	U	486	LEU
1	U	492	LEU
1	U	494	MET
1	U	547	LEU

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Mol	Chain	Res	Type
1	U	584	MET
1	U	615	CYS
2	V	29	CYS
2	V	32	THR
2	V	34	LEU
2	V	38	HIS
2	V	39	LEU
2	V	55	THR
2	V	79	CYS
2	V	113	THR
2	V	121	GLU
1	W	27	LEU
1	W	30	GLU
1	W	60	ASN
1	W	62	THR
1	W	77	LYS
1	W	82	LEU
1	W	92	ILE
1	W	100	MET
1	W	102	VAL
1	W	136	THR
1	W	153	CYS
1	W	155	LEU
1	W	179	MET
1	W	212	SER
1	W	218	SER
1	W	223	ASP
1	W	257	THR
1	W	288	LEU
1	W	339	THR
1	W	345	SER
1	W	385	LYS
1	W	389	TYR
1	W	409	LEU
1	W	483	ARG
1	W	485	ASP
1	W	486	LEU
1	W	492	LEU
1	W	494	MET
1	W	523	ASP
1	W	524	ARG
1	W	547	LEU

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Mol	Chain	Res	Type
1	W	584	MET
1	W	615	CYS
2	X	31	VAL
2	X	32	THR
2	X	39	LEU
2	X	40	LEU
2	X	45	ILE
2	X	46	SER
2	X	55	THR
2	X	79	CYS
2	X	113	THR
2	X	121	GLU
1	Y	26	HIS
1	Y	60	ASN
1	Y	72	TYR
1	Y	112	ILE
1	Y	136	THR
1	Y	153	CYS
1	Y	155	LEU
1	Y	179	MET
1	Y	212	SER
1	Y	218	SER
1	Y	223	ASP
1	Y	257	THR
1	Y	339	THR
1	Y	344	GLN
1	Y	385	LYS
1	Y	389	TYR
1	Y	409	LEU
1	Y	483	ARG
1	Y	485	ASP
1	Y	486	LEU
1	Y	492	LEU
1	Y	494	MET
1	Y	525	ASP
1	Y	547	LEU
1	Y	584	MET
1	Y	615	CYS
2	Z	29	CYS
2	Z	31	VAL
2	Z	32	THR
2	Z	39	LEU

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Mol	Chain	Res	Type
2	Z	55	THR
2	Z	79	CYS
2	Z	113	THR
2	Z	121	GLU
2	Z	128	LEU
2	Z	129	ASN
1	1	60	ASN
1	1	61	VAL
1	1	62	THR
1	1	67	SER
1	1	77	LYS
1	1	84	ILE
1	1	103	ASP
1	1	106	LYS
1	1	112	ILE
1	1	136	THR
1	1	153	CYS
1	1	155	LEU
1	1	179	MET
1	1	212	SER
1	1	218	SER
1	1	223	ASP
1	1	257	THR
1	1	339	THR
1	1	345	SER
1	1	385	LYS
1	1	389	TYR
1	1	409	LEU
1	1	483	ARG
1	1	485	ASP
1	1	486	LEU
1	1	492	LEU
1	1	494	MET
1	1	523	ASP
1	1	547	LEU
1	1	584	MET
1	1	615	CYS
2	2	24	TRP
2	2	31	VAL
2	2	32	THR
2	2	33	GLN
2	2	34	LEU

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Mol	Chain	Res	Type
2	2	39	LEU
2	2	40	LEU
2	2	55	THR
2	2	79	CYS
2	2	113	THR
2	2	121	GLU
1	3	20	LEU
1	3	27	LEU
1	3	60	ASN
1	3	61	VAL
1	3	68	MET
1	3	79	SER
1	3	82	LEU
1	3	100	MET
1	3	112	ILE
1	3	136	THR
1	3	153	CYS
1	3	155	LEU
1	3	157	TYR
1	3	179	MET
1	3	212	SER
1	3	218	SER
1	3	223	ASP
1	3	257	THR
1	3	339	THR
1	3	385	LYS
1	3	389	TYR
1	3	409	LEU
1	3	483	ARG
1	3	485	ASP
1	3	486	LEU
1	3	492	LEU
1	3	494	MET
1	3	525	ASP
1	3	547	LEU
1	3	584	MET
1	3	615	CYS
2	4	31	VAL
2	4	32	THR
2	4	39	LEU
2	4	55	THR
2	4	79	CYS

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Mol	Chain	Res	Type
2	4	113	THR
2	4	121	GLU
2	4	127	ASN
1	5	27	LEU
1	5	60	ASN
1	5	62	THR
1	5	72	TYR
1	5	74	LEU
1	5	102	VAL
1	5	112	ILE
1	5	136	THR
1	5	153	CYS
1	5	155	LEU
1	5	179	MET
1	5	212	SER
1	5	218	SER
1	5	223	ASP
1	5	257	THR
1	5	339	THR
1	5	385	LYS
1	5	389	TYR
1	5	409	LEU
1	5	483	ARG
1	5	485	ASP
1	5	486	LEU
1	5	492	LEU
1	5	494	MET
1	5	547	LEU
1	5	584	MET
1	5	615	CYS
2	6	24	TRP
2	6	31	VAL
2	6	32	THR
2	6	34	LEU
2	6	39	LEU
2	6	55	THR
2	6	79	CYS
2	6	113	THR
2	6	121	GLU
2	6	130	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (250) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	344	GLN
1	A	366	HIS
1	A	405	ASN
1	A	411	GLN
1	A	439	GLN
1	A	442	ASN
1	A	585	ASN
1	A	640	GLN
1	A	641	ASN
1	A	655	HIS
2	B	69	ASN
2	B	73	GLN
1	C	60	ASN
1	C	101	GLN
1	C	116	ASN
1	C	237	ASN
1	C	344	GLN
1	C	366	HIS
1	C	405	ASN
1	C	411	GLN
1	C	439	GLN
1	C	442	ASN
1	C	585	ASN
1	C	640	GLN
1	C	641	ASN
1	C	655	HIS
2	D	37	GLN
2	D	69	ASN
2	D	73	GLN
2	D	81	ASN
2	D	129	ASN
1	E	60	ASN
1	E	237	ASN
1	E	344	GLN
1	E	366	HIS
1	E	405	ASN
1	E	411	GLN
1	E	439	GLN
1	E	442	ASN
1	E	585	ASN
1	E	640	GLN
1	E	641	ASN
1	E	655	HIS

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Mol	Chain	Res	Type
2	F	33	GLN
2	F	37	GLN
2	F	69	ASN
2	F	73	GLN
2	F	84	ASN
1	G	140	ASN
1	G	150	GLN
1	G	237	ASN
1	G	366	HIS
1	G	405	ASN
1	G	411	GLN
1	G	439	GLN
1	G	442	ASN
1	G	585	ASN
1	G	640	GLN
1	G	641	ASN
1	G	655	HIS
2	H	69	ASN
2	H	73	GLN
1	I	60	ASN
1	I	237	ASN
1	I	366	HIS
1	I	405	ASN
1	I	411	GLN
1	I	439	GLN
1	I	442	ASN
1	I	585	ASN
1	I	640	GLN
1	I	641	ASN
1	I	655	HIS
2	J	54	GLN
2	J	69	ASN
2	J	73	GLN
2	J	84	ASN
1	K	26	HIS
1	K	60	ASN
1	K	70	ASN
1	K	237	ASN
1	K	344	GLN
1	K	366	HIS
1	K	405	ASN
1	K	411	GLN

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Mol	Chain	Res	Type
1	K	439	GLN
1	K	442	ASN
1	K	585	ASN
1	K	640	GLN
1	K	641	ASN
1	K	655	HIS
2	L	44	ASN
2	L	69	ASN
2	L	73	GLN
2	L	127	ASN
1	M	344	GLN
1	M	366	HIS
1	M	405	ASN
1	M	411	GLN
1	M	439	GLN
1	M	442	ASN
1	M	585	ASN
1	M	640	GLN
1	M	641	ASN
1	M	655	HIS
2	N	37	GLN
2	N	69	ASN
2	N	73	GLN
2	N	127	ASN
1	O	26	HIS
1	O	60	ASN
1	O	116	ASN
1	O	237	ASN
1	O	366	HIS
1	O	405	ASN
1	O	411	GLN
1	O	439	GLN
1	O	442	ASN
1	O	585	ASN
1	O	640	GLN
1	O	641	ASN
1	O	655	HIS
2	P	37	GLN
2	P	69	ASN
2	P	73	GLN
2	P	84	ASN
1	Q	116	ASN

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Mol	Chain	Res	Type
1	Q	237	ASN
1	Q	344	GLN
1	Q	366	HIS
1	Q	405	ASN
1	Q	411	GLN
1	Q	439	GLN
1	Q	442	ASN
1	Q	585	ASN
1	Q	640	GLN
1	Q	641	ASN
1	Q	655	HIS
2	R	69	ASN
2	R	73	GLN
1	S	237	ASN
1	S	344	GLN
1	S	366	HIS
1	S	405	ASN
1	S	411	GLN
1	S	439	GLN
1	S	442	ASN
1	S	585	ASN
1	S	640	GLN
1	S	641	ASN
1	S	655	HIS
2	T	69	ASN
2	T	73	GLN
2	T	129	ASN
1	U	70	ASN
1	U	116	ASN
1	U	237	ASN
1	U	344	GLN
1	U	366	HIS
1	U	405	ASN
1	U	411	GLN
1	U	439	GLN
1	U	442	ASN
1	U	585	ASN
1	U	640	GLN
1	U	641	ASN
1	U	655	HIS
2	V	30	HIS
2	V	69	ASN

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Mol	Chain	Res	Type
2	V	73	GLN
2	V	84	ASN
2	V	129	ASN
1	W	26	HIS
1	W	60	ASN
1	W	70	ASN
1	W	140	ASN
1	W	150	GLN
1	W	366	HIS
1	W	405	ASN
1	W	411	GLN
1	W	439	GLN
1	W	442	ASN
1	W	585	ASN
1	W	640	GLN
1	W	641	ASN
1	W	655	HIS
2	X	33	GLN
2	X	38	HIS
2	X	44	ASN
2	X	69	ASN
2	X	73	GLN
2	X	81	ASN
1	Y	237	ASN
1	Y	366	HIS
1	Y	405	ASN
1	Y	411	GLN
1	Y	439	GLN
1	Y	442	ASN
1	Y	585	ASN
1	Y	640	GLN
1	Y	641	ASN
1	Y	655	HIS
2	Z	33	GLN
2	Z	37	GLN
2	Z	69	ASN
2	Z	73	GLN
1	1	366	HIS
1	1	405	ASN
1	1	411	GLN
1	1	439	GLN
1	1	442	ASN

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Mol	Chain	Res	Type
1	1	585	ASN
1	1	640	GLN
1	1	641	ASN
1	1	655	HIS
2	2	30	HIS
2	2	69	ASN
2	2	73	GLN
2	2	129	ASN
1	3	70	ASN
1	3	366	HIS
1	3	405	ASN
1	3	411	GLN
1	3	439	GLN
1	3	442	ASN
1	3	585	ASN
1	3	640	GLN
1	3	641	ASN
1	3	655	HIS
2	4	33	GLN
2	4	69	ASN
2	4	73	GLN
2	4	127	ASN
1	5	108	HIS
1	5	344	GLN
1	5	366	HIS
1	5	405	ASN
1	5	411	GLN
1	5	439	GLN
1	5	442	ASN
1	5	585	ASN
1	5	640	GLN
1	5	641	ASN
1	5	655	HIS
2	6	30	HIS
2	6	33	GLN
2	6	44	ASN
2	6	69	ASN
2	6	73	GLN
2	6	129	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no carbohydrates in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	1	653/653 (100%)	-0.38	1 (0%) 95 91	68, 113, 161, 218	0
1	3	653/653 (100%)	-0.06	14 (2%) 63 46	76, 118, 187, 244	0
1	5	653/653 (100%)	-0.04	12 (1%) 68 51	74, 118, 182, 243	0
1	A	653/653 (100%)	-0.36	4 (0%) 89 80	70, 115, 162, 220	0
1	C	653/653 (100%)	-0.30	0 100 100	53, 108, 157, 205	0
1	E	653/653 (100%)	-0.37	4 (0%) 89 80	68, 111, 161, 206	0
1	G	653/653 (100%)	-0.37	5 (0%) 86 73	68, 113, 162, 214	0
1	I	653/653 (100%)	-0.42	1 (0%) 95 91	66, 112, 161, 220	0
1	K	653/653 (100%)	-0.36	4 (0%) 89 80	63, 109, 161, 225	0
1	M	653/653 (100%)	-0.40	3 (0%) 91 82	56, 110, 158, 209	0
1	O	653/653 (100%)	-0.33	1 (0%) 95 91	59, 109, 159, 224	0
1	Q	653/653 (100%)	-0.41	5 (0%) 86 73	69, 114, 162, 211	0
1	S	653/653 (100%)	-0.35	2 (0%) 94 88	63, 109, 157, 217	0
1	U	653/653 (100%)	-0.39	2 (0%) 94 88	70, 114, 161, 224	0
1	W	653/653 (100%)	-0.30	7 (1%) 80 66	69, 115, 161, 206	0
1	Y	653/653 (100%)	-0.26	7 (1%) 80 66	71, 116, 165, 235	0
2	2	108/108 (100%)	0.17	9 (8%) 11 6	83, 127, 206, 241	0
2	4	108/108 (100%)	0.80	18 (16%) 1 0	94, 152, 229, 249	0
2	6	108/108 (100%)	0.78	19 (17%) 1 0	91, 151, 229, 279	0
2	B	108/108 (100%)	0.25	12 (11%) 5 3	89, 137, 214, 260	0
2	D	108/108 (100%)	0.02	4 (3%) 41 25	78, 119, 204, 240	0
2	F	108/108 (100%)	0.39	10 (9%) 8 4	89, 138, 216, 289	0
2	H	108/108 (100%)	0.09	10 (9%) 8 4	92, 135, 214, 242	0
2	J	108/108 (100%)	0.38	11 (10%) 6 3	81, 130, 214, 262	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
2	L	108/108 (100%)	0.21	11 (10%) 6 3	88, 132, 208, 248	0
2	N	108/108 (100%)	-0.05	4 (3%) 41 25	78, 120, 196, 240	0
2	P	108/108 (100%)	0.21	8 (7%) 14 8	83, 123, 214, 246	0
2	R	108/108 (100%)	0.28	13 (12%) 4 3	86, 138, 211, 253	0
2	T	108/108 (100%)	-0.03	4 (3%) 41 25	79, 123, 204, 240	0
2	V	108/108 (100%)	0.24	11 (10%) 6 3	90, 139, 220, 250	0
2	X	108/108 (100%)	0.23	13 (12%) 4 3	90, 133, 208, 250	0
2	Z	108/108 (100%)	0.21	15 (13%) 2 2	91, 142, 230, 251	0
All	All	12176/12176 (100%)	-0.24	244 (2%) 65 48	53, 115, 174, 289	0

All (244) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	J	25	ALA	16.6
2	F	25	ALA	16.1
2	6	25	ALA	13.0
2	V	25	ALA	8.1
2	B	25	ALA	7.7
2	P	25	ALA	7.4
2	R	25	ALA	7.3
2	F	24	TRP	7.1
2	H	73	GLN	7.0
2	2	36	ALA	6.8
2	L	24	TRP	6.5
2	F	26	TYR	6.0
2	F	69	ASN	6.0
2	V	69	ASN	5.9
2	J	36	ALA	5.8
2	4	69	ASN	5.8
2	4	74	LEU	5.8
2	P	24	TRP	5.7
2	R	70	GLY	5.7
2	6	69	ASN	5.6
2	6	24	TRP	5.6
2	2	70	GLY	5.5
2	X	25	ALA	5.5
2	Z	25	ALA	5.4
2	6	26	TYR	5.4
2	R	24	TRP	5.4

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Mol	Chain	Res	Type	RSRZ
2	V	70	GLY	5.3
2	Z	24	TRP	5.2
2	4	67	PRO	5.1
2	P	70	GLY	5.1
2	X	36	ALA	5.1
2	R	68	LYS	5.0
2	L	25	ALA	5.0
2	H	24	TRP	5.0
2	F	70	GLY	4.9
2	V	26	TYR	4.9
2	B	71	SER	4.8
2	J	24	TRP	4.8
2	Z	69	ASN	4.8
2	R	72	ASN	4.8
2	R	26	TYR	4.7
2	J	72	ASN	4.7
2	V	24	TRP	4.6
2	J	26	TYR	4.6
2	H	72	ASN	4.5
2	X	74	LEU	4.5
2	4	68	LYS	4.5
1	5	589	GLN	4.4
1	Q	589	GLN	4.3
2	X	72	ASN	4.3
2	6	68	LYS	4.3
2	N	71	SER	4.3
2	4	71	SER	4.2
2	J	68	LYS	4.2
2	P	72	ASN	4.1
2	J	74	LEU	4.1
2	B	74	LEU	4.1
2	4	26	TYR	4.1
2	D	36	ALA	4.1
1	O	109	PRO	4.0
2	6	74	LEU	4.0
2	R	36	ALA	4.0
2	L	69	ASN	3.9
2	P	68	LYS	3.9
2	Z	39	LEU	3.9
2	6	67	PRO	3.9
2	X	24	TRP	3.9
2	V	68	LYS	3.9

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Mol	Chain	Res	Type	RSRZ
2	H	69	ASN	3.9
1	5	437	THR	3.8
2	F	68	LYS	3.8
2	B	24	TRP	3.7
2	B	72	ASN	3.7
2	X	69	ASN	3.7
2	Z	72	ASN	3.7
2	P	71	SER	3.7
2	V	36	ALA	3.7
2	B	68	LYS	3.7
2	R	71	SER	3.5
2	B	69	ASN	3.5
2	4	25	ALA	3.5
1	Y	109	PRO	3.5
2	B	70	GLY	3.5
2	F	71	SER	3.4
1	5	152	ARG	3.4
2	2	37	GLN	3.4
2	6	27	PRO	3.4
2	B	26	TYR	3.3
2	Z	36	ALA	3.3
2	6	75	VAL	3.3
2	2	35	ARG	3.3
2	V	71	SER	3.3
1	I	437	THR	3.3
2	4	70	GLY	3.3
2	X	68	LYS	3.2
1	Q	109	PRO	3.1
2	H	36	ALA	3.1
1	A	109	PRO	3.1
2	4	99	ALA	3.1
2	R	35	ARG	3.1
2	J	35	ARG	3.1
1	G	32	HIS	3.1
2	2	71	SER	3.0
2	Z	38	HIS	3.0
2	P	36	ALA	3.0
2	R	69	ASN	3.0
1	K	32	HIS	3.0
2	L	74	LEU	3.0
2	X	26	TYR	3.0
2	H	74	LEU	3.0

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Mol	Chain	Res	Type	RSRZ
1	5	109	PRO	3.0
2	6	35	ARG	3.0
2	4	24	TRP	2.9
1	M	32	HIS	2.9
2	4	130	ARG	2.9
2	Z	26	TYR	2.9
2	B	73	GLN	2.9
2	X	70	GLY	2.9
1	5	153	CYS	2.9
2	6	119	SER	2.9
2	R	75	VAL	2.9
2	4	98	SER	2.9
2	6	38	HIS	2.8
2	H	25	ALA	2.8
1	3	140	ASN	2.8
2	T	70	GLY	2.8
2	4	127	ASN	2.8
1	5	239	HIS	2.8
2	X	33	GLN	2.7
2	H	35	ARG	2.7
2	F	75	VAL	2.7
2	6	99	ALA	2.7
1	G	31	GLY	2.7
1	E	109	PRO	2.7
1	E	572	TYR	2.7
2	J	75	VAL	2.6
2	6	70	GLY	2.6
2	2	38	HIS	2.6
2	6	104	LEU	2.6
1	W	437	THR	2.6
2	4	131	TYR	2.6
2	N	72	ASN	2.6
1	Y	437	THR	2.6
2	Z	71	SER	2.6
2	Z	68	LYS	2.6
1	Q	437	THR	2.6
1	3	437	THR	2.6
1	Y	389	TYR	2.5
2	4	72	ASN	2.5
2	Z	74	LEU	2.5
2	X	71	SER	2.5
2	L	68	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
2	L	72	ASN	2.5
1	W	586	LYS	2.5
2	2	72	ASN	2.5
1	K	189	GLY	2.5
1	3	500	THR	2.4
1	3	97	GLU	2.4
2	N	35	ARG	2.4
2	X	73	GLN	2.4
1	5	497	GLN	2.4
2	2	69	ASN	2.4
1	G	572	TYR	2.4
2	L	34	LEU	2.4
1	K	589	GLN	2.4
2	H	33	GLN	2.4
2	6	73	GLN	2.4
2	N	70	GLY	2.4
1	G	109	PRO	2.4
1	5	40	TRP	2.4
2	4	129	ASN	2.4
2	2	54	GLN	2.4
2	L	35	ARG	2.4
2	T	71	SER	2.4
1	U	109	PRO	2.3
1	A	49	GLY	2.3
1	E	437	THR	2.3
2	R	54	GLN	2.3
2	X	37	GLN	2.3
2	6	36	ALA	2.3
2	T	63	SER	2.3
1	3	49	GLY	2.3
2	V	72	ASN	2.3
1	3	103	ASP	2.3
1	3	589	GLN	2.3
1	G	606	THR	2.3
2	Z	75	VAL	2.3
1	5	310	ASN	2.3
2	V	35	ARG	2.3
2	4	27	PRO	2.3
1	3	654	LEU	2.3
2	L	26	TYR	2.3
2	L	70	GLY	2.3
1	3	602	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
1	W	672	GLY	2.2
2	D	71	SER	2.2
2	6	100	LEU	2.2
2	H	68	LYS	2.2
1	Y	388	VAL	2.2
1	W	614	PHE	2.2
2	P	26	TYR	2.2
1	Y	654	LEU	2.2
1	E	631	THR	2.2
1	5	610	LYS	2.2
2	J	67	PRO	2.2
2	Z	67	PRO	2.2
1	W	98	GLY	2.2
1	Q	590	GLY	2.2
2	D	74	LEU	2.2
1	5	572	TYR	2.2
1	Q	110	GLY	2.2
2	R	98	SER	2.2
1	Y	108	HIS	2.1
1	W	40	TRP	2.1
1	U	310	ASN	2.1
1	M	109	PRO	2.1
2	J	71	SER	2.1
1	A	48	PRO	2.1
2	B	36	ALA	2.1
2	B	75	VAL	2.1
2	T	72	ASN	2.1
1	W	497	GLN	2.1
2	L	38	HIS	2.1
2	Z	57	ASP	2.1
1	A	413	LEU	2.1
1	Y	30	GLU	2.1
1	S	385	LYS	2.1
2	6	72	ASN	2.1
1	K	590	GLY	2.1
2	D	69	ASN	2.1
1	S	189	GLY	2.1
2	F	74	LEU	2.0
1	3	310	ASN	2.0
1	3	30	GLU	2.0
2	V	73	GLN	2.0
1	3	163	ASN	2.0

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Mol	Chain	Res	Type	RSRZ
2	F	76	ILE	2.0
1	3	53	GLU	2.0
2	Z	70	GLY	2.0
1	5	150	GLN	2.0
2	4	28	CYS	2.0
1	M	30	GLU	2.0
1	3	624	GLU	2.0
1	1	140	ASN	2.0

6.2 Non-standard residues in protein, DNA, RNA chains (i)

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

6.3 Carbohydrates (i)

There are no carbohydrates in this entry.

6.4 Ligands (i)

There are no ligands in this entry.

6.5 Other polymers (i)

There are no such residues in this entry.