



Full wwPDB EM Validation Report ⓘ

Feb 13, 2024 – 05:58 PM EST

PDB ID : 3J2M
EMDB ID : EMD-1126
Title : The X-ray structure of the gp15 hexamer and the model of the gp18 protein fitted into the cryo-EM reconstruction of the extended T4 tail
Authors : Fokine, A.; Zhang, Z.; Kanamaru, S.; Bowman, V.D.; Aksyuk, A.; Arisaka, F.; Rao, V.B.; Rossmann, M.G.
Deposited on : 2012-11-09
Resolution : 15.00 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev70
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

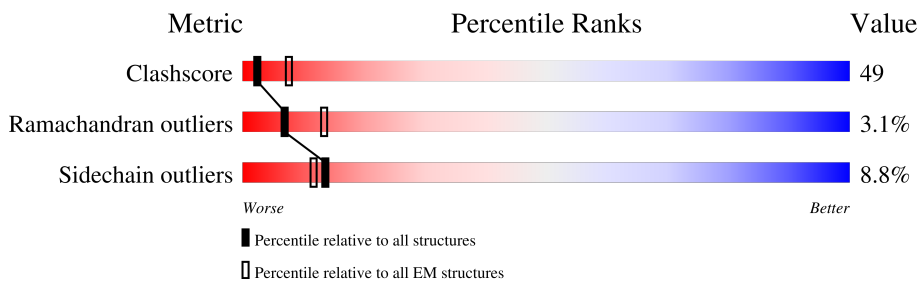
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 15.00 Å.

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







Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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

Mol	Chain	Length	Quality of chain
1	A	272	58% 17% 22%
1	B	272	60% 15% 22%
1	C	272	57% 17% 22%
1	D	272	60% 14% 22%
1	E	272	60% 14% 22%
1	F	272	60% 15% 22%
2	U	659	33% 50% 9% 8%
2	V	659	34% 49% 9% 8%

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Mol	Chain	Length	Quality of chain
2	W	659	
2	X	659	
2	Y	659	
2	Z	659	

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 38334 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Tail connector protein Gp15.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	211	1742	1123	283	328	8	0	0
1	B	211	1742	1123	283	328	8	0	0
1	C	211	1742	1123	283	328	8	0	0
1	D	211	1742	1123	283	328	8	0	0
1	E	211	1742	1123	283	328	8	0	0
1	F	211	1742	1123	283	328	8	0	0

- Molecule 2 is a protein called Tail sheath protein Gp18.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	U	609	4647	2929	785	923	10	0	0
2	V	609	4647	2929	785	923	10	0	0
2	W	609	4647	2929	785	923	10	0	0
2	X	609	4647	2929	785	923	10	0	0
2	Y	609	4647	2929	785	923	10	0	0
2	Z	609	4647	2929	785	923	10	0	0

There are 48 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
U	100	GLU	ASP	SEE REMARK 999	UNP P13332
U	148	ALA	GLY	SEE REMARK 999	UNP P13332

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Chain	Residue	Modelled	Actual	Comment	Reference
U	150	ILE	ASN	SEE REMARK 999	UNP P13332
U	151	ILE	TYR	SEE REMARK 999	UNP P13332
U	301	GLY	GLU	SEE REMARK 999	UNP P13332
U	399	VAL	ALA	SEE REMARK 999	UNP P13332
U	454	TYR	HIS	SEE REMARK 999	UNP P13332
U	510	PRO	ARG	engineered mutation	UNP P13332
V	100	GLU	ASP	SEE REMARK 999	UNP P13332
V	148	ALA	GLY	SEE REMARK 999	UNP P13332
V	150	ILE	ASN	SEE REMARK 999	UNP P13332
V	151	ILE	TYR	SEE REMARK 999	UNP P13332
V	301	GLY	GLU	SEE REMARK 999	UNP P13332
V	399	VAL	ALA	SEE REMARK 999	UNP P13332
V	454	TYR	HIS	SEE REMARK 999	UNP P13332
V	510	PRO	ARG	engineered mutation	UNP P13332
W	100	GLU	ASP	SEE REMARK 999	UNP P13332
W	148	ALA	GLY	SEE REMARK 999	UNP P13332
W	150	ILE	ASN	SEE REMARK 999	UNP P13332
W	151	ILE	TYR	SEE REMARK 999	UNP P13332
W	301	GLY	GLU	SEE REMARK 999	UNP P13332
W	399	VAL	ALA	SEE REMARK 999	UNP P13332
W	454	TYR	HIS	SEE REMARK 999	UNP P13332
W	510	PRO	ARG	engineered mutation	UNP P13332
X	100	GLU	ASP	SEE REMARK 999	UNP P13332
X	148	ALA	GLY	SEE REMARK 999	UNP P13332
X	150	ILE	ASN	SEE REMARK 999	UNP P13332
X	151	ILE	TYR	SEE REMARK 999	UNP P13332
X	301	GLY	GLU	SEE REMARK 999	UNP P13332
X	399	VAL	ALA	SEE REMARK 999	UNP P13332
X	454	TYR	HIS	SEE REMARK 999	UNP P13332
X	510	PRO	ARG	engineered mutation	UNP P13332
Y	100	GLU	ASP	SEE REMARK 999	UNP P13332
Y	148	ALA	GLY	SEE REMARK 999	UNP P13332
Y	150	ILE	ASN	SEE REMARK 999	UNP P13332
Y	151	ILE	TYR	SEE REMARK 999	UNP P13332
Y	301	GLY	GLU	SEE REMARK 999	UNP P13332
Y	399	VAL	ALA	SEE REMARK 999	UNP P13332
Y	454	TYR	HIS	SEE REMARK 999	UNP P13332
Y	510	PRO	ARG	engineered mutation	UNP P13332
Z	100	GLU	ASP	SEE REMARK 999	UNP P13332
Z	148	ALA	GLY	SEE REMARK 999	UNP P13332
Z	150	ILE	ASN	SEE REMARK 999	UNP P13332
Z	151	ILE	TYR	SEE REMARK 999	UNP P13332

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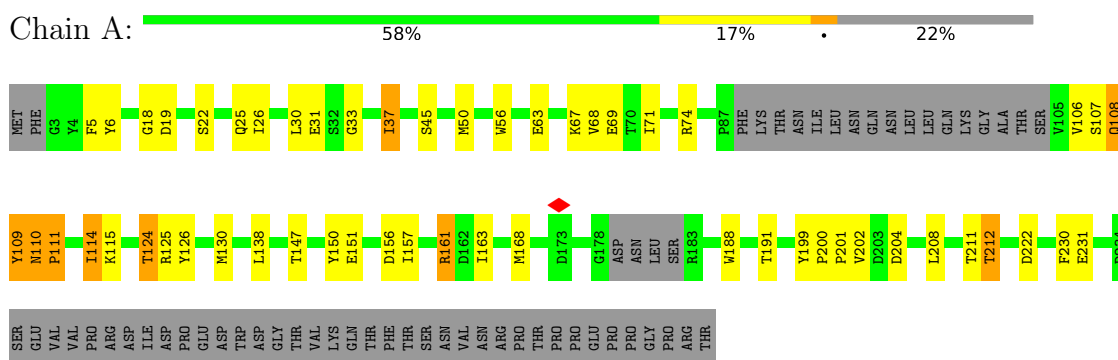
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Chain	Residue	Modelled	Actual	Comment	Reference
Z	301	GLY	GLU	SEE REMARK 999	UNP P13332
Z	399	VAL	ALA	SEE REMARK 999	UNP P13332
Z	454	TYR	HIS	SEE REMARK 999	UNP P13332
Z	510	PRO	ARG	engineered mutation	UNP P13332

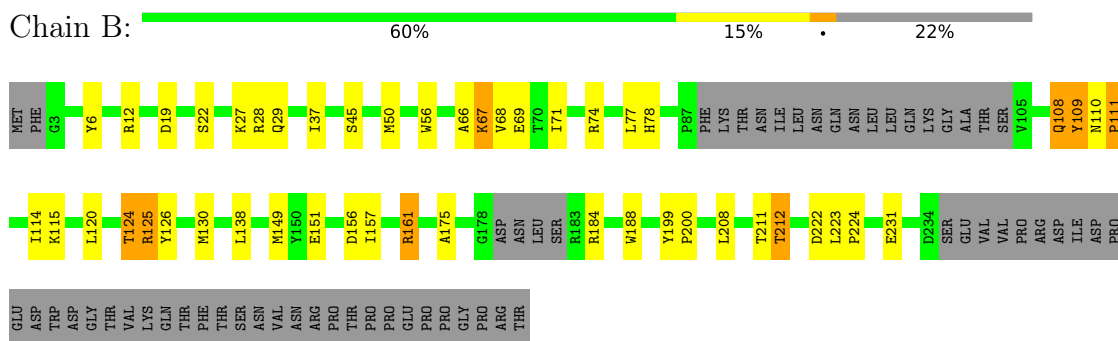
3 Residue-property plots [i](#)

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

- Molecule 1: Tail connector protein Gp15



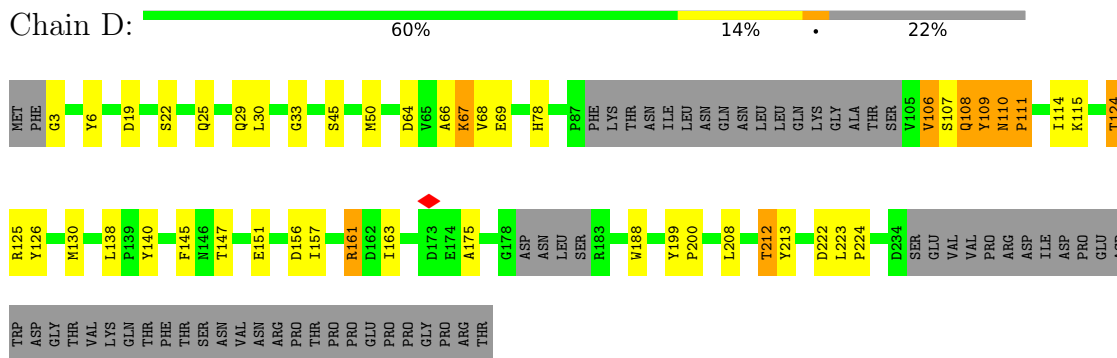
- Molecule 1: Tail connector protein Gp15



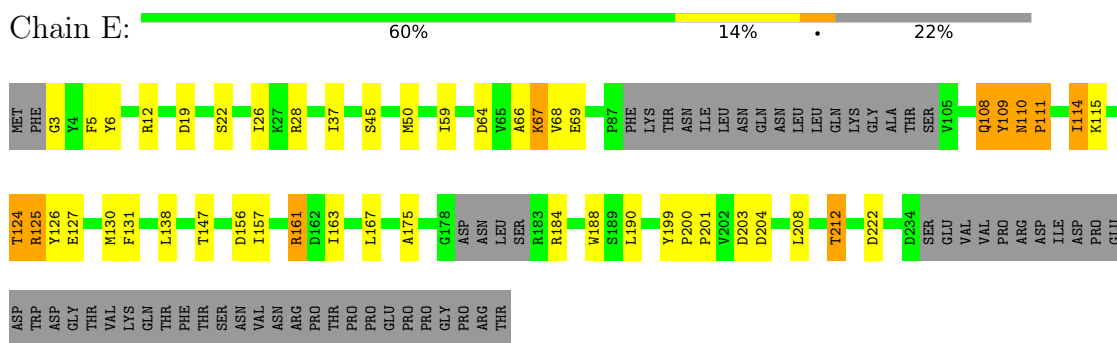
- Molecule 1: Tail connector protein Gp15



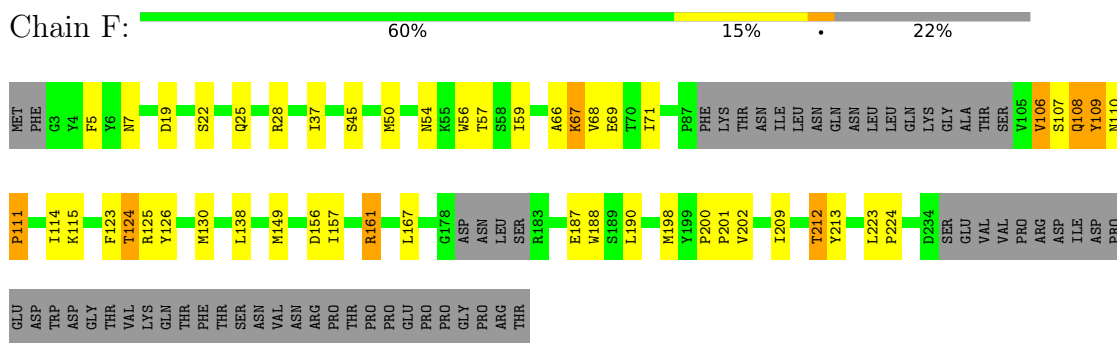
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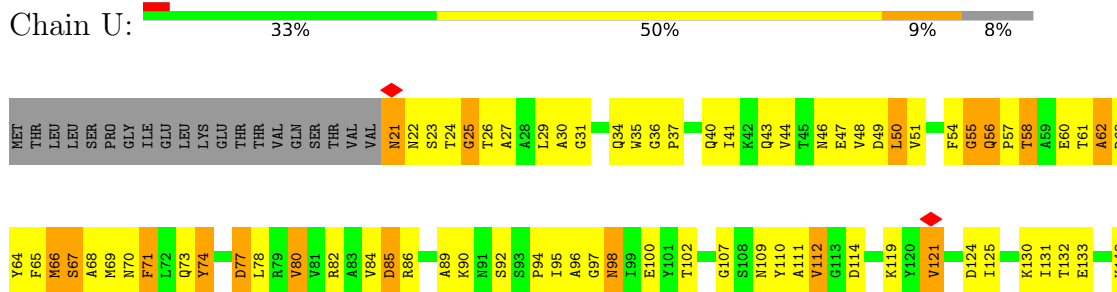
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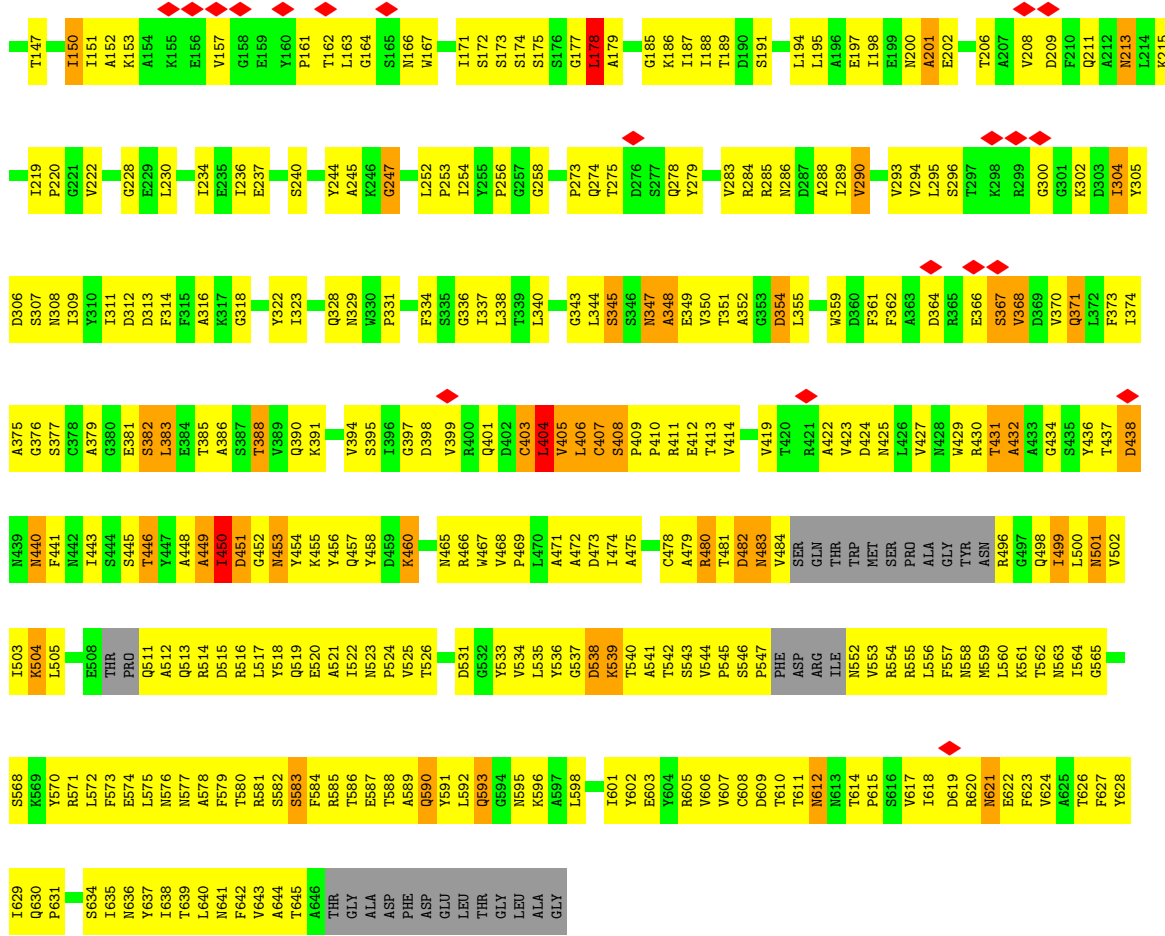


• Molecule 1: Tail connector protein Gp15

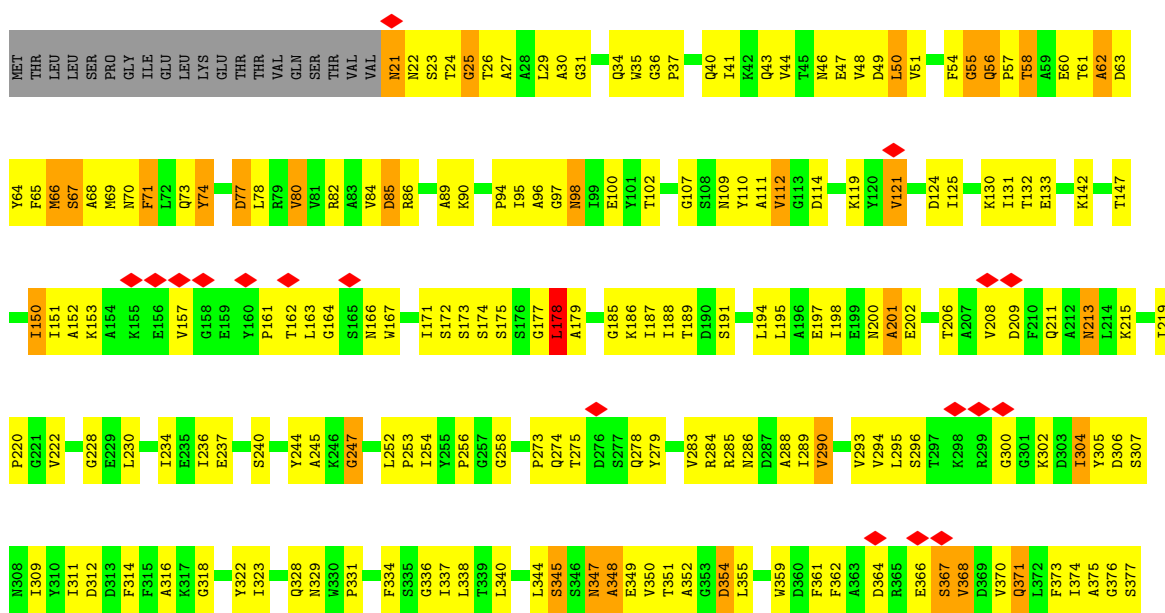


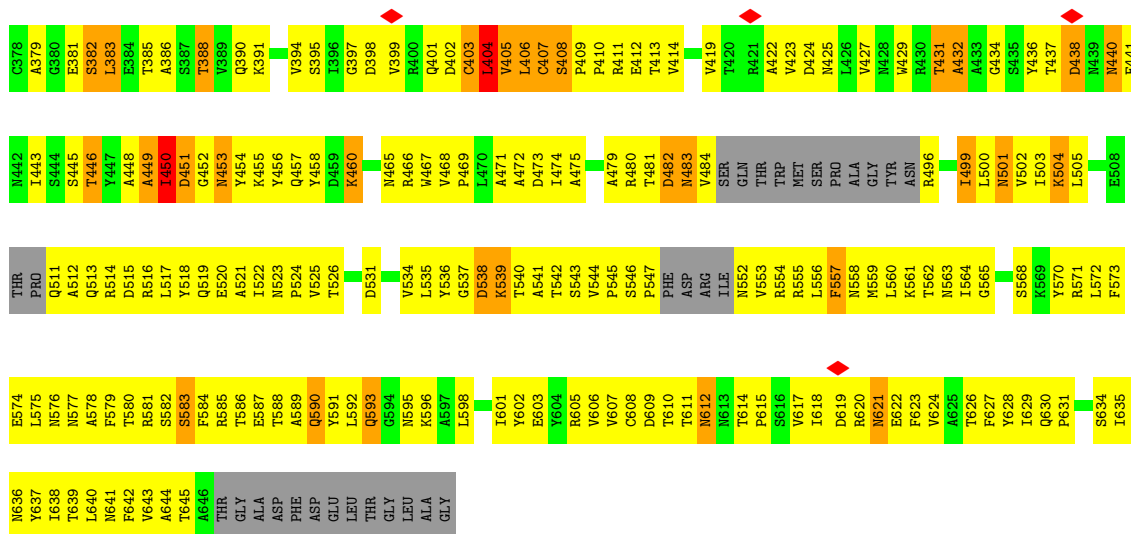
• Molecule 2: Tail sheath protein Gp18



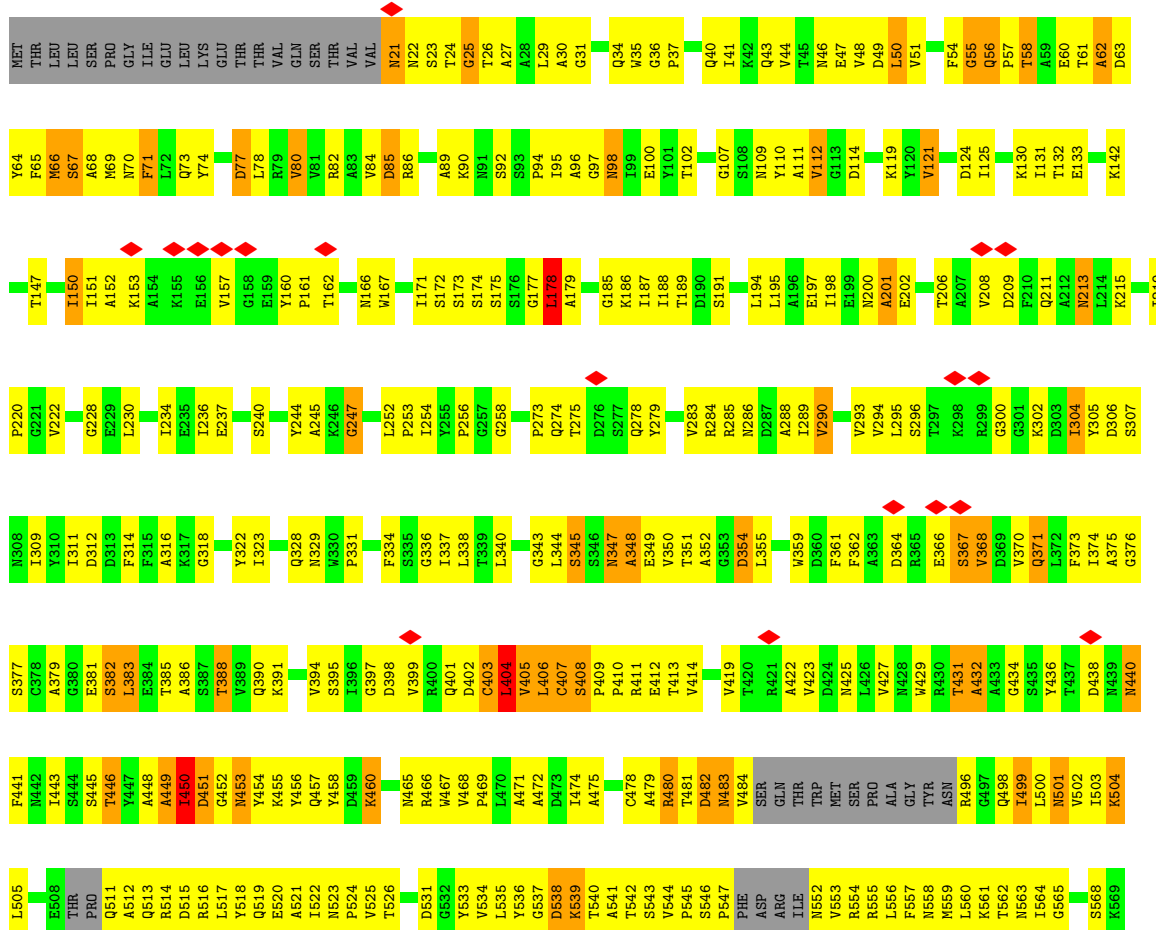


● Molecule 2: Tail sheath protein Gp18



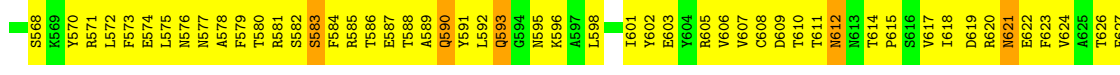
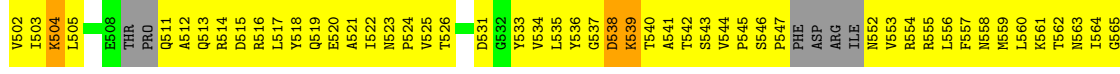
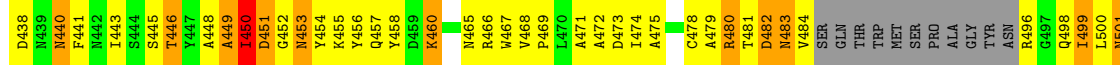
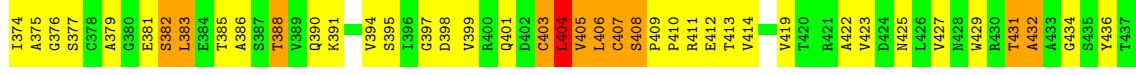
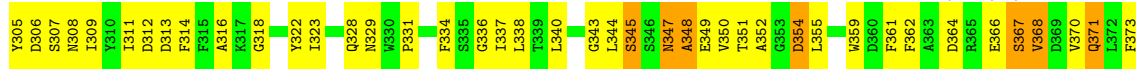
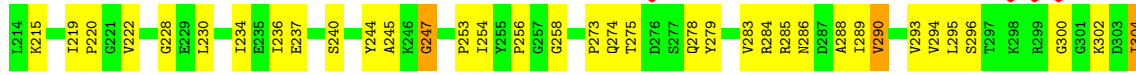
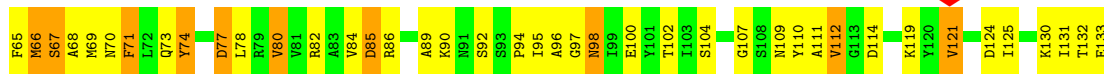
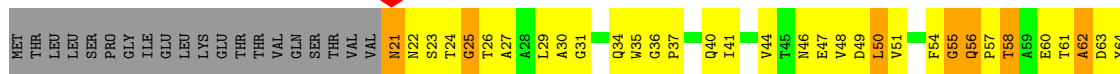


• Molecule 2: Tail sheath protein Gp18



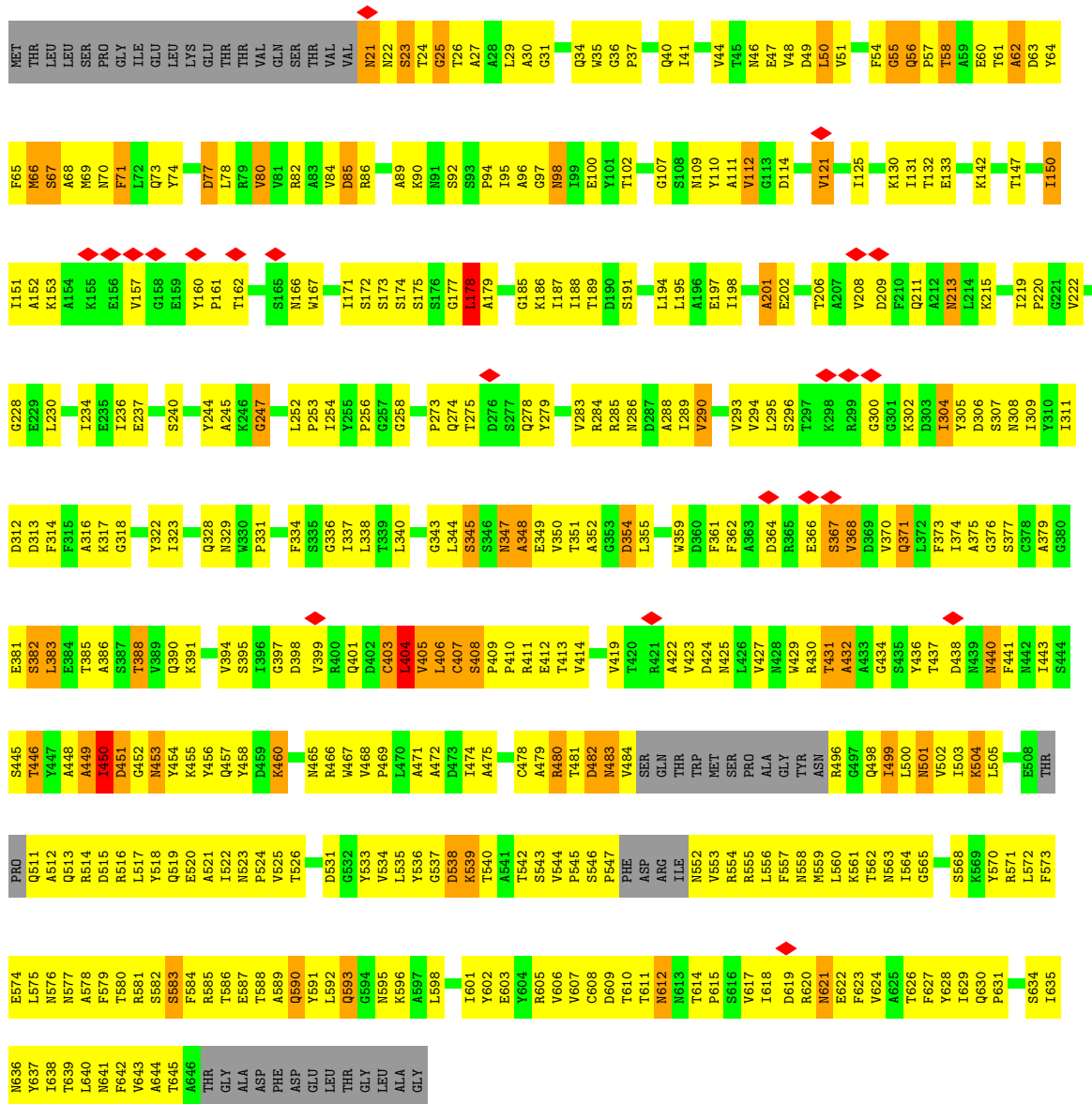


• Molecule 2: Tail sheath protein Gp18

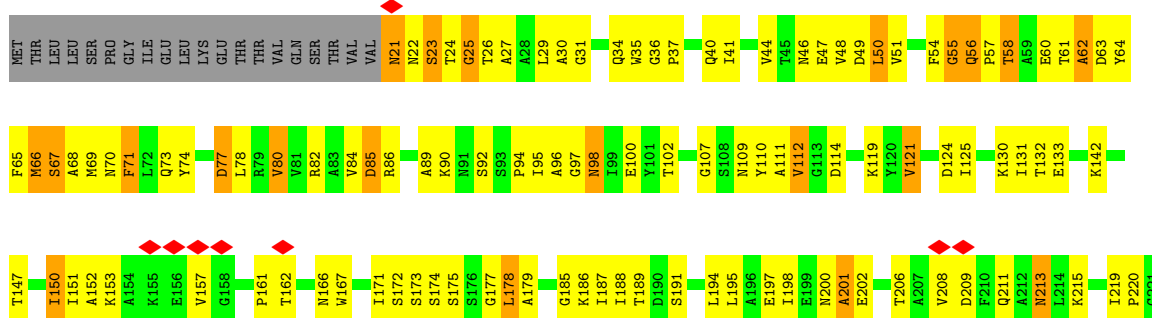


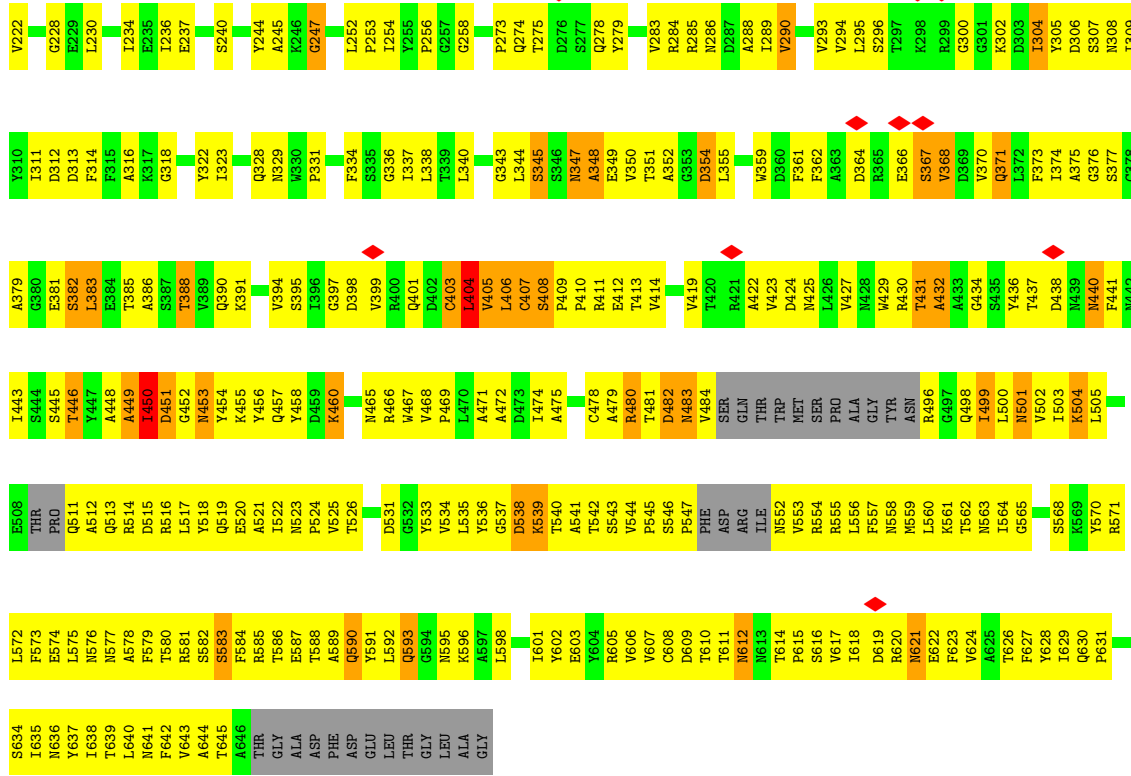
• Molecule 2: Tail sheath protein Gp18





• Molecule 2: Tail sheath protein Gp18





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C6	Depositor
Number of particles used	3029	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	each particle image	Depositor
Microscope	FEI/PHILIPS CM300FEG/ST	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	47000	Depositor
Image detector	Not provided	
Maximum map value	7.953	Depositor
Minimum map value	-2.953	Depositor
Average map value	0.059	Depositor
Map value standard deviation	0.533	Depositor
Recommended contour level	1.01	Depositor
Map size (\AA)	714.6, 714.6, 1508.6	wwPDB
Map dimensions	180, 180, 380	wwPDB
Map angles ($^\circ$)	90, 90, 90	wwPDB
Pixel spacing (\AA)	3.97, 3.97, 3.97	Depositor

5 Model quality i

5.1 Standard geometry i

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	A	0.49	0/1787	0.64	0/2421
1	B	0.47	0/1787	0.63	0/2421
1	C	0.48	0/1787	0.64	1/2421 (0.0%)
1	D	0.49	0/1787	0.63	0/2421
1	E	0.49	0/1787	0.63	0/2421
1	F	0.50	0/1787	0.65	0/2421
2	U	0.60	0/4729	0.89	21/6427 (0.3%)
2	V	0.60	0/4729	0.90	21/6427 (0.3%)
2	W	0.60	0/4729	0.89	21/6427 (0.3%)
2	X	0.60	0/4729	0.90	21/6427 (0.3%)
2	Y	0.60	1/4729 (0.0%)	0.89	20/6427 (0.3%)
2	Z	0.60	1/4729 (0.0%)	0.89	19/6427 (0.3%)
All	All	0.57	2/39096 (0.0%)	0.83	124/53088 (0.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	U	0	4
2	V	0	4
2	W	0	4
2	X	0	4
2	Y	0	4
2	Z	0	4
All	All	0	24

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Z	23	SER	C-O	5.16	1.33	1.23
2	Y	23	SER	C-O	5.03	1.32	1.23

All (124) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	V	55	GLY	N-CA-C	18.09	158.33	113.10
2	U	55	GLY	N-CA-C	18.03	158.18	113.10
2	Y	55	GLY	N-CA-C	18.01	158.12	113.10
2	W	55	GLY	N-CA-C	17.99	158.08	113.10
2	X	55	GLY	N-CA-C	17.93	157.92	113.10
2	Z	55	GLY	N-CA-C	17.84	157.71	113.10
2	V	56	GLN	N-CA-CB	-11.41	90.05	110.60
2	Y	56	GLN	N-CA-CB	-11.38	90.11	110.60
2	X	56	GLN	N-CA-CB	-11.37	90.13	110.60
2	Z	56	GLN	N-CA-CB	-11.37	90.13	110.60
2	U	56	GLN	N-CA-CB	-11.36	90.15	110.60
2	W	56	GLN	N-CA-CB	-11.35	90.17	110.60
2	X	367	SER	N-CA-CB	-10.77	94.34	110.50
2	V	367	SER	N-CA-CB	-10.64	94.54	110.50
2	W	367	SER	N-CA-CB	-10.56	94.65	110.50
2	U	367	SER	N-CA-CB	-10.54	94.68	110.50
2	Z	367	SER	N-CA-CB	-10.43	94.85	110.50
2	Y	367	SER	N-CA-CB	-10.41	94.88	110.50
2	V	111	ALA	CB-CA-C	9.73	124.70	110.10
2	W	111	ALA	CB-CA-C	9.72	124.68	110.10
2	X	111	ALA	CB-CA-C	9.69	124.64	110.10
2	X	405	VAL	N-CA-C	-9.68	84.88	111.00
2	U	112	VAL	N-CA-C	9.62	136.98	111.00
2	Y	112	VAL	N-CA-C	9.61	136.95	111.00
2	Y	405	VAL	N-CA-C	-9.59	85.11	111.00
2	Z	405	VAL	N-CA-C	-9.59	85.12	111.00
2	V	112	VAL	N-CA-C	9.57	136.83	111.00
2	U	407	CYS	CB-CA-C	-9.56	91.28	110.40
2	W	405	VAL	N-CA-C	-9.56	85.19	111.00
2	Z	407	CYS	CB-CA-C	-9.55	91.30	110.40
2	U	405	VAL	N-CA-C	-9.54	85.24	111.00
2	W	112	VAL	N-CA-C	9.53	136.74	111.00
2	X	112	VAL	N-CA-C	9.52	136.71	111.00
2	Z	112	VAL	N-CA-C	9.52	136.70	111.00
2	U	111	ALA	CB-CA-C	9.49	124.33	110.10
2	V	405	VAL	N-CA-C	-9.49	85.39	111.00
2	Z	111	ALA	CB-CA-C	9.48	124.32	110.10
2	Y	111	ALA	CB-CA-C	9.47	124.31	110.10
2	Y	407	CYS	CB-CA-C	-9.47	91.46	110.40
2	V	407	CYS	CB-CA-C	-9.46	91.47	110.40
2	X	407	CYS	CB-CA-C	-9.46	91.48	110.40
2	W	407	CYS	CB-CA-C	-9.43	91.54	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	V	408	SER	N-CA-CB	-8.89	97.16	110.50
2	X	408	SER	N-CA-CB	-8.85	97.23	110.50
2	Y	408	SER	N-CA-CB	-8.83	97.26	110.50
2	U	408	SER	N-CA-CB	-8.82	97.27	110.50
2	W	408	SER	N-CA-CB	-8.75	97.38	110.50
2	Z	408	SER	N-CA-CB	-8.67	97.50	110.50
2	Y	112	VAL	CB-CA-C	-7.75	96.67	111.40
2	V	112	VAL	CB-CA-C	-7.69	96.80	111.40
2	Z	112	VAL	CB-CA-C	-7.65	96.86	111.40
2	U	112	VAL	CB-CA-C	-7.65	96.87	111.40
2	W	112	VAL	CB-CA-C	-7.61	96.94	111.40
2	Y	404	LEU	N-CA-C	-7.60	90.49	111.00
2	X	112	VAL	CB-CA-C	-7.58	96.99	111.40
2	Z	404	LEU	N-CA-C	-7.55	90.61	111.00
2	U	404	LEU	N-CA-C	-7.55	90.62	111.00
2	W	404	LEU	N-CA-C	-7.54	90.64	111.00
2	X	404	LEU	N-CA-C	-7.53	90.68	111.00
2	V	404	LEU	N-CA-C	-7.52	90.70	111.00
2	U	366	GLU	CB-CA-C	7.44	125.29	110.40
2	Z	366	GLU	CB-CA-C	7.40	125.20	110.40
2	V	366	GLU	CB-CA-C	7.38	125.16	110.40
2	W	366	GLU	CB-CA-C	7.38	125.16	110.40
2	X	366	GLU	CB-CA-C	7.32	125.04	110.40
2	Y	366	GLU	CB-CA-C	7.23	124.86	110.40
2	U	404	LEU	CB-CA-C	6.87	123.25	110.20
2	X	404	LEU	CB-CA-C	6.87	123.25	110.20
2	Y	404	LEU	CB-CA-C	6.84	123.20	110.20
2	W	404	LEU	CB-CA-C	6.84	123.20	110.20
2	V	404	LEU	CB-CA-C	6.83	123.18	110.20
2	Z	404	LEU	CB-CA-C	6.83	123.17	110.20
2	V	449	ALA	CB-CA-C	6.67	120.10	110.10
2	X	449	ALA	CB-CA-C	6.67	120.10	110.10
2	Z	85	ASP	N-CA-C	-6.62	93.13	111.00
2	U	449	ALA	CB-CA-C	6.60	120.00	110.10
2	V	85	ASP	N-CA-C	-6.59	93.19	111.00
2	Y	449	ALA	CB-CA-C	6.59	119.99	110.10
2	W	449	ALA	CB-CA-C	6.59	119.98	110.10
2	Y	85	ASP	N-CA-C	-6.57	93.25	111.00
2	W	85	ASP	N-CA-C	-6.50	93.46	111.00
2	Z	449	ALA	CB-CA-C	6.48	119.82	110.10
2	X	85	ASP	N-CA-C	-6.47	93.52	111.00
2	U	85	ASP	N-CA-C	-6.42	93.67	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	V	406	LEU	CB-CA-C	6.24	122.05	110.20
2	Z	406	LEU	CB-CA-C	6.19	121.97	110.20
2	W	406	LEU	CB-CA-C	6.18	121.94	110.20
2	Y	406	LEU	CB-CA-C	6.16	121.91	110.20
2	U	406	LEU	CB-CA-C	6.12	121.82	110.20
2	X	406	LEU	CB-CA-C	6.12	121.82	110.20
2	V	85	ASP	CB-CA-C	5.81	122.01	110.40
2	Y	85	ASP	CB-CA-C	5.79	121.98	110.40
2	Z	85	ASP	CB-CA-C	5.72	121.84	110.40
2	X	85	ASP	CB-CA-C	5.71	121.82	110.40
2	U	85	ASP	CB-CA-C	5.70	121.79	110.40
2	W	85	ASP	CB-CA-C	5.68	121.76	110.40
2	W	406	LEU	N-CA-C	-5.36	96.53	111.00
2	Z	406	LEU	N-CA-C	-5.36	96.53	111.00
2	U	406	LEU	N-CA-C	-5.35	96.56	111.00
2	Y	406	LEU	N-CA-C	-5.31	96.65	111.00
2	V	406	LEU	N-CA-C	-5.30	96.68	111.00
2	X	406	LEU	N-CA-C	-5.29	96.72	111.00
2	X	178	LEU	N-CA-CB	-5.28	99.84	110.40
2	U	178	LEU	N-CA-CB	-5.27	99.86	110.40
2	V	179	ALA	N-CA-C	5.25	125.16	111.00
2	U	179	ALA	N-CA-C	5.24	125.15	111.00
2	X	179	ALA	N-CA-C	5.24	125.14	111.00
2	Y	179	ALA	N-CA-C	5.24	125.14	111.00
2	W	179	ALA	N-CA-C	5.20	125.04	111.00
2	Z	179	ALA	N-CA-C	5.19	125.01	111.00
2	Y	178	LEU	N-CA-CB	-5.17	100.05	110.40
2	X	21	ASN	C-N-CA	5.12	134.51	121.70
2	U	449	ALA	N-CA-C	-5.12	97.17	111.00
1	C	190	LEU	CA-CB-CG	5.10	127.03	115.30
2	V	21	ASN	C-N-CA	5.09	134.43	121.70
2	X	449	ALA	N-CA-C	-5.09	97.26	111.00
2	Y	21	ASN	C-N-CA	5.08	134.41	121.70
2	V	557	PHE	CA-CB-CG	-5.06	101.75	113.90
2	W	21	ASN	C-N-CA	5.06	134.35	121.70
2	Z	21	ASN	C-N-CA	5.05	134.33	121.70
2	V	178	LEU	N-CA-CB	-5.05	100.31	110.40
2	W	178	LEU	N-CA-CB	-5.03	100.33	110.40
2	W	449	ALA	N-CA-C	-5.02	97.43	111.00
2	U	21	ASN	C-N-CA	5.02	134.25	121.70

There are no chirality outliers.

All (24) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	U	21	ASN	Peptide
2	U	450	ILE	Peptide
2	U	451	ASP	Peptide
2	U	452	GLY	Peptide
2	V	21	ASN	Peptide
2	V	450	ILE	Peptide
2	V	451	ASP	Peptide
2	V	452	GLY	Peptide
2	W	21	ASN	Peptide
2	W	450	ILE	Peptide
2	W	451	ASP	Peptide
2	W	452	GLY	Peptide
2	X	21	ASN	Peptide
2	X	450	ILE	Peptide
2	X	451	ASP	Peptide
2	X	452	GLY	Peptide
2	Y	21	ASN	Peptide
2	Y	450	ILE	Peptide
2	Y	451	ASP	Peptide
2	Y	452	GLY	Peptide
2	Z	21	ASN	Peptide
2	Z	450	ILE	Peptide
2	Z	451	ASP	Peptide
2	Z	452	GLY	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1742	0	1673	54	0
1	B	1742	0	1673	59	0
1	C	1742	0	1673	49	0
1	D	1742	0	1673	44	0
1	E	1742	0	1673	46	0
1	F	1742	0	1673	36	0
2	U	4647	0	4564	595	0
2	V	4647	0	4564	592	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	W	4647	0	4564	588	0
2	X	4647	0	4564	587	0
2	Y	4647	0	4562	576	0
2	Z	4647	0	4564	577	0
All	All	38334	0	37420	3690	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 49.

All (3690) 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:A:156:ASP:HB3	2:U:579:PHE:CE1	1.23	1.68
1:B:157:ILE:CD1	2:V:579:PHE:HB3	1.20	1.63
1:B:157:ILE:HG13	2:V:579:PHE:CB	1.21	1.57
1:B:156:ASP:HB3	2:V:579:PHE:CE1	1.39	1.54
1:A:157:ILE:HG13	2:U:579:PHE:CB	1.22	1.54
2:Z:404:LEU:CG	2:Z:554:ARG:HH12	1.22	1.52
2:Y:404:LEU:CG	2:Y:554:ARG:HH12	1.22	1.51
2:U:404:LEU:CG	2:U:554:ARG:HH12	1.22	1.51
2:X:404:LEU:CG	2:X:554:ARG:HH12	1.22	1.51
2:Z:496:ARG:N	2:Z:534:VAL:CB	1.74	1.51
2:W:404:LEU:CG	2:W:554:ARG:HH12	1.22	1.50
2:V:409:PRO:O	2:V:454:TYR:CE1	1.65	1.49
2:W:409:PRO:O	2:W:454:TYR:CE1	1.65	1.49
2:U:496:ARG:N	2:U:534:VAL:CB	1.74	1.49
2:W:446:THR:HG22	2:W:542:THR:CG2	1.42	1.49
2:X:409:PRO:O	2:X:454:TYR:CE1	1.65	1.48
2:X:496:ARG:N	2:X:534:VAL:CB	1.74	1.48
2:Y:496:ARG:N	2:Y:534:VAL:CB	1.74	1.48
2:V:446:THR:HG22	2:V:542:THR:CG2	1.42	1.48
2:Y:446:THR:HG22	2:Y:542:THR:CG2	1.42	1.48
2:V:496:ARG:N	2:V:534:VAL:CB	1.74	1.48
2:V:404:LEU:CG	2:V:554:ARG:HH12	1.22	1.48
1:B:157:ILE:CG1	2:V:579:PHE:CB	1.90	1.47
2:Z:446:THR:HG22	2:Z:542:THR:CG2	1.42	1.47
2:U:409:PRO:O	2:U:454:TYR:CE1	1.66	1.47
2:Y:409:PRO:O	2:Y:454:TYR:CE1	1.65	1.47
2:U:446:THR:HG22	2:U:542:THR:CG2	1.42	1.47
2:Z:409:PRO:O	2:Z:454:TYR:CE1	1.65	1.47
2:X:446:THR:HG22	2:X:542:THR:CG2	1.42	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:157:ILE:CD1	2:U:579:PHE:HB3	1.44	1.45
2:W:496:ARG:N	2:W:534:VAL:HB	1.14	1.45
2:W:496:ARG:N	2:W:534:VAL:CB	1.74	1.44
2:X:496:ARG:N	2:X:534:VAL:HB	1.14	1.44
2:Y:496:ARG:N	2:Y:534:VAL:HB	1.14	1.44
1:B:157:ILE:HB	2:V:579:PHE:CD2	1.51	1.43
2:Z:496:ARG:N	2:Z:534:VAL:HB	1.14	1.43
2:U:496:ARG:N	2:U:534:VAL:HB	1.14	1.42
2:V:496:ARG:N	2:V:534:VAL:HB	1.14	1.41
1:A:157:ILE:CG1	2:U:579:PHE:CB	1.99	1.38
2:Z:404:LEU:HG	2:Z:554:ARG:NH1	1.09	1.37
2:U:404:LEU:HG	2:U:554:ARG:NH1	1.09	1.37
2:W:404:LEU:HG	2:W:554:ARG:NH1	1.09	1.37
2:X:404:LEU:HG	2:X:554:ARG:NH1	1.08	1.36
2:Y:404:LEU:HG	2:Y:554:ARG:NH1	1.08	1.36
2:V:404:LEU:HG	2:V:554:ARG:NH1	1.09	1.35
1:A:157:ILE:CG1	2:U:579:PHE:HB3	1.56	1.34
2:X:409:PRO:CD	2:X:451:ASP:O	1.75	1.33
2:W:409:PRO:CD	2:W:451:ASP:O	1.75	1.33
2:W:446:THR:O	2:W:539:LYS:HE3	1.27	1.33
2:Y:409:PRO:CD	2:Y:451:ASP:O	1.76	1.33
2:Z:409:PRO:CD	2:Z:451:ASP:O	1.75	1.33
2:V:446:THR:O	2:V:539:LYS:HE3	1.27	1.32
2:U:409:PRO:CD	2:U:451:ASP:O	1.76	1.32
2:V:409:PRO:CD	2:V:451:ASP:O	1.76	1.32
2:Z:446:THR:O	2:Z:539:LYS:HE3	1.29	1.29
1:A:156:ASP:CB	2:U:579:PHE:CE1	2.16	1.28
2:U:446:THR:O	2:U:539:LYS:HE3	1.28	1.25
2:V:379:ALA:CB	2:V:454:TYR:OH	1.85	1.25
2:X:379:ALA:CB	2:X:454:TYR:OH	1.84	1.25
2:Z:379:ALA:CB	2:Z:454:TYR:OH	1.84	1.25
2:U:379:ALA:CB	2:U:454:TYR:OH	1.85	1.25
1:E:156:ASP:HB3	2:Y:579:PHE:CE1	1.69	1.25
1:B:157:ILE:CG1	2:V:579:PHE:HB3	1.56	1.24
2:U:379:ALA:HB2	2:U:454:TYR:OH	1.36	1.24
2:Y:379:ALA:CB	2:Y:454:TYR:OH	1.84	1.24
2:V:379:ALA:HB2	2:V:454:TYR:OH	1.37	1.24
2:X:446:THR:O	2:X:539:LYS:HE3	1.27	1.24
2:W:379:ALA:CB	2:W:454:TYR:OH	1.84	1.24
1:A:157:ILE:HB	2:U:579:PHE:CD2	1.73	1.23
2:V:427:VAL:HG11	2:V:516:ARG:NH2	1.54	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:379:ALA:HB2	2:Z:454:TYR:OH	1.36	1.22
2:U:427:VAL:HG11	2:U:516:ARG:NH2	1.55	1.22
1:A:156:ASP:HB3	2:U:579:PHE:CD1	1.76	1.21
1:C:157:ILE:CD1	2:W:579:PHE:HB3	1.71	1.21
1:A:156:ASP:CB	2:U:579:PHE:HE1	1.51	1.20
1:C:156:ASP:HB3	2:W:579:PHE:CE1	1.77	1.19
1:B:157:ILE:HG13	2:V:579:PHE:CG	1.77	1.19
2:X:427:VAL:HG11	2:X:516:ARG:NH2	1.55	1.19
2:Y:427:VAL:HG11	2:Y:516:ARG:NH2	1.54	1.19
2:W:427:VAL:HG11	2:W:516:ARG:NH2	1.55	1.19
2:Z:427:VAL:HG11	2:Z:516:ARG:NH2	1.54	1.19
2:W:379:ALA:HB2	2:W:454:TYR:OH	1.36	1.18
2:X:379:ALA:HB2	2:X:454:TYR:OH	1.37	1.18
2:X:427:VAL:HG11	2:X:516:ARG:HH21	1.01	1.18
1:E:157:ILE:HG13	2:Y:579:PHE:HB2	1.22	1.17
2:W:427:VAL:HG11	2:W:516:ARG:HH21	1.02	1.17
2:Y:379:ALA:HB2	2:Y:454:TYR:OH	1.37	1.17
1:B:157:ILE:CD1	2:V:579:PHE:CB	2.14	1.16
2:Y:409:PRO:HD3	2:Y:451:ASP:O	0.99	1.16
2:Y:427:VAL:HG11	2:Y:516:ARG:HH21	1.02	1.16
1:D:156:ASP:HB3	2:X:579:PHE:CE1	1.80	1.16
2:U:483:ASN:O	2:U:555:ARG:HB3	1.46	1.16
2:Y:496:ARG:N	2:Y:534:VAL:CG2	2.09	1.16
2:Z:409:PRO:HD3	2:Z:451:ASP:O	0.99	1.16
2:Z:496:ARG:N	2:Z:534:VAL:CG2	2.09	1.16
2:W:496:ARG:N	2:W:534:VAL:CG2	2.09	1.15
2:V:409:PRO:HD3	2:V:451:ASP:O	0.99	1.15
2:V:483:ASN:O	2:V:555:ARG:HB3	1.46	1.15
2:W:446:THR:HG22	2:W:542:THR:HG21	1.26	1.15
2:Z:483:ASN:O	2:Z:555:ARG:HB3	1.46	1.15
2:W:483:ASN:O	2:W:555:ARG:HB3	1.46	1.14
2:X:409:PRO:HD3	2:X:451:ASP:O	0.99	1.14
2:Y:483:ASN:O	2:Y:555:ARG:HB3	1.46	1.14
2:X:496:ARG:N	2:X:534:VAL:CG2	2.09	1.14
2:V:496:ARG:N	2:V:534:VAL:CG2	2.09	1.14
2:V:524:PRO:HG2	2:V:535:LEU:HB2	1.23	1.14
2:Y:379:ALA:HB1	2:Y:454:TYR:CZ	1.82	1.13
2:Z:524:PRO:HG2	2:Z:535:LEU:HB2	1.24	1.13
1:D:157:ILE:HD12	2:X:579:PHE:HB3	1.23	1.13
2:U:496:ARG:N	2:U:534:VAL:CG2	2.10	1.13
2:U:409:PRO:HD3	2:U:451:ASP:O	0.98	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:454:TYR:CE2	2:V:469:PRO:HA	1.84	1.13
2:Z:427:VAL:HG11	2:Z:516:ARG:HH21	1.02	1.13
2:X:483:ASN:O	2:X:555:ARG:HB3	1.46	1.13
2:U:454:TYR:CE2	2:U:469:PRO:HA	1.84	1.13
2:V:446:THR:HG22	2:V:542:THR:HG21	1.26	1.12
2:W:409:PRO:HD3	2:W:451:ASP:O	0.98	1.12
2:W:505:LEU:CD1	2:W:525:VAL:HG11	1.79	1.12
2:X:379:ALA:HB1	2:X:454:TYR:CZ	1.83	1.12
2:Y:454:TYR:CE2	2:Y:469:PRO:HA	1.83	1.12
2:Z:379:ALA:HB1	2:Z:454:TYR:CZ	1.83	1.12
2:U:505:LEU:CD1	2:U:525:VAL:HG11	1.79	1.12
2:Y:524:PRO:HG2	2:Y:535:LEU:HB2	1.23	1.12
2:U:379:ALA:HB1	2:U:454:TYR:CZ	1.83	1.12
2:Y:505:LEU:CD1	2:Y:525:VAL:HG11	1.79	1.12
1:C:157:ILE:HG13	2:W:579:PHE:CB	1.79	1.12
1:D:157:ILE:CD1	2:X:579:PHE:HB3	1.80	1.12
2:W:379:ALA:HB1	2:W:454:TYR:CZ	1.83	1.12
2:W:454:TYR:CE2	2:W:469:PRO:HA	1.85	1.12
2:V:379:ALA:HB1	2:V:454:TYR:CZ	1.83	1.11
2:V:427:VAL:HG11	2:V:516:ARG:HH21	1.01	1.11
2:W:524:PRO:HG2	2:W:535:LEU:HB2	1.23	1.11
2:X:505:LEU:CD1	2:X:525:VAL:HG11	1.79	1.11
2:Z:454:TYR:CE2	2:Z:469:PRO:HA	1.85	1.11
2:X:454:TYR:CE2	2:X:469:PRO:HA	1.84	1.11
2:Z:505:LEU:CD1	2:Z:525:VAL:HG11	1.79	1.11
1:B:156:ASP:CB	2:V:579:PHE:HE1	1.61	1.11
1:E:157:ILE:HG13	2:Y:579:PHE:CB	1.81	1.11
1:F:157:ILE:HB	2:Z:579:PHE:CD2	1.78	1.11
2:V:505:LEU:CD1	2:V:525:VAL:HG11	1.79	1.11
2:Z:450:ILE:HG12	2:Z:451:ASP:H	0.94	1.10
2:Y:379:ALA:CB	2:Y:454:TYR:CZ	2.35	1.10
2:Z:446:THR:HG22	2:Z:542:THR:HG21	1.26	1.10
2:X:379:ALA:CB	2:X:454:TYR:CZ	2.35	1.10
1:B:157:ILE:HD12	2:V:579:PHE:HB3	1.18	1.10
2:Y:450:ILE:HG12	2:Y:451:ASP:H	0.94	1.10
2:U:450:ILE:HG12	2:U:451:ASP:H	0.94	1.09
2:V:409:PRO:O	2:V:454:TYR:CZ	2.05	1.09
2:X:409:PRO:O	2:X:454:TYR:CZ	2.06	1.09
2:Y:446:THR:HG22	2:Y:542:THR:HG21	1.26	1.09
2:Z:379:ALA:CB	2:Z:454:TYR:CZ	2.35	1.09
1:B:156:ASP:CB	2:V:579:PHE:CE1	2.34	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:409:PRO:O	2:Z:454:TYR:CZ	2.05	1.09
2:W:379:ALA:CB	2:W:454:TYR:CZ	2.35	1.09
2:U:446:THR:HG22	2:U:542:THR:HG21	1.26	1.08
2:X:524:PRO:HG2	2:X:535:LEU:HB2	1.23	1.08
2:U:379:ALA:CB	2:U:454:TYR:CZ	2.35	1.08
2:U:524:PRO:HG2	2:U:535:LEU:HB2	1.23	1.08
2:Y:409:PRO:O	2:Y:454:TYR:CZ	2.06	1.08
2:V:379:ALA:CB	2:V:454:TYR:CZ	2.35	1.08
2:X:446:THR:HG22	2:X:542:THR:HG21	1.26	1.08
2:Y:51:VAL:HA	2:Y:55:GLY:HA2	1.36	1.08
2:U:427:VAL:HG11	2:U:516:ARG:HH21	1.02	1.07
2:V:450:ILE:HG12	2:V:451:ASP:H	0.94	1.07
2:V:454:TYR:CD2	2:V:469:PRO:HA	1.89	1.07
2:W:409:PRO:O	2:W:454:TYR:CZ	2.06	1.07
2:X:450:ILE:HG12	2:X:451:ASP:H	0.94	1.07
2:U:446:THR:CG2	2:U:542:THR:CG2	2.32	1.07
2:X:446:THR:CG2	2:X:542:THR:CG2	2.32	1.07
2:X:454:TYR:CD2	2:X:469:PRO:HA	1.90	1.07
2:Z:51:VAL:HA	2:Z:55:GLY:HA2	1.36	1.07
2:W:454:TYR:CD2	2:W:469:PRO:HA	1.90	1.07
2:X:51:VAL:HA	2:X:55:GLY:HA2	1.36	1.07
2:Y:446:THR:HG22	2:Y:542:THR:HG22	1.08	1.07
2:Z:446:THR:HG22	2:Z:542:THR:HG22	1.08	1.07
2:U:51:VAL:HA	2:U:55:GLY:HA2	1.36	1.07
2:U:409:PRO:O	2:U:454:TYR:CZ	2.06	1.07
2:U:454:TYR:CD2	2:U:469:PRO:HA	1.89	1.06
2:X:446:THR:HG22	2:X:542:THR:HG22	1.08	1.06
2:Y:454:TYR:CD2	2:Y:469:PRO:HA	1.89	1.06
2:W:446:THR:CG2	2:W:542:THR:CG2	2.32	1.06
2:X:446:THR:CG2	2:X:542:THR:HG22	1.85	1.06
2:Z:446:THR:CG2	2:Z:542:THR:CG2	2.32	1.06
1:B:157:ILE:CB	2:V:579:PHE:CD2	2.38	1.06
2:W:446:THR:CG2	2:W:542:THR:HG22	1.85	1.06
2:W:450:ILE:HG12	2:W:451:ASP:H	0.94	1.06
1:E:157:ILE:HD12	2:Y:579:PHE:HB3	1.34	1.05
2:V:446:THR:CG2	2:V:542:THR:CG2	2.32	1.05
2:V:51:VAL:HA	2:V:55:GLY:HA2	1.36	1.05
2:V:446:THR:CG2	2:V:542:THR:HG22	1.85	1.05
2:Y:446:THR:CG2	2:Y:542:THR:HG22	1.85	1.05
2:Y:446:THR:CG2	2:Y:542:THR:CG2	2.32	1.05
2:Z:454:TYR:CD2	2:Z:469:PRO:HA	1.90	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:51:VAL:HA	2:W:55:GLY:HA2	1.36	1.05
2:W:450:ILE:HG12	2:W:451:ASP:N	1.67	1.05
1:B:157:ILE:HD11	2:V:579:PHE:HB3	1.38	1.04
1:E:157:ILE:CD1	2:Y:579:PHE:HB3	1.87	1.04
2:W:446:THR:HG22	2:W:542:THR:HG22	1.08	1.04
1:A:157:ILE:HD12	2:U:579:PHE:HB3	1.31	1.04
1:B:157:ILE:CG1	2:V:579:PHE:CG	2.34	1.04
2:U:446:THR:CG2	2:U:542:THR:HG22	1.85	1.04
2:Z:446:THR:CG2	2:Z:542:THR:HG22	1.86	1.04
2:U:446:THR:HG22	2:U:542:THR:HG22	1.07	1.03
2:V:450:ILE:HG12	2:V:451:ASP:N	1.67	1.03
1:B:157:ILE:N	2:V:579:PHE:CD1	2.27	1.01
2:V:446:THR:HG22	2:V:542:THR:HG22	1.08	1.01
2:X:450:ILE:HG12	2:X:451:ASP:N	1.67	1.00
1:B:156:ASP:HB3	2:V:579:PHE:CD1	1.95	1.00
1:D:157:ILE:HG13	2:X:579:PHE:HB2	1.43	1.00
1:E:156:ASP:HB3	2:Y:579:PHE:CD1	1.96	1.00
2:U:450:ILE:HG12	2:U:451:ASP:N	1.67	0.98
2:Y:450:ILE:HG12	2:Y:451:ASP:N	1.68	0.98
1:B:157:ILE:HB	2:V:579:PHE:CG	1.99	0.98
2:Z:450:ILE:HG12	2:Z:451:ASP:N	1.67	0.98
2:U:409:PRO:O	2:U:454:TYR:HE1	1.16	0.97
2:U:514:ARG:HG3	2:U:535:LEU:HD13	1.47	0.97
2:X:556:LEU:HD23	2:X:560:LEU:HD23	1.46	0.97
1:C:156:ASP:HB3	2:W:579:PHE:HE1	1.26	0.97
2:W:556:LEU:HD23	2:W:560:LEU:HD23	1.46	0.97
2:Z:514:ARG:HG3	2:Z:535:LEU:HD13	1.46	0.97
2:U:228:GLY:HA2	2:U:345:SER:HB3	1.46	0.97
2:Y:556:LEU:HD23	2:Y:560:LEU:HD23	1.47	0.97
2:Z:556:LEU:HD23	2:Z:560:LEU:HD23	1.46	0.97
2:V:556:LEU:HD23	2:V:560:LEU:HD23	1.45	0.96
2:V:514:ARG:HG3	2:V:535:LEU:HD13	1.46	0.96
2:V:628:TYR:CD2	2:V:639:THR:HG22	2.00	0.96
1:A:157:ILE:HG13	2:U:579:PHE:CG	1.99	0.96
2:U:628:TYR:CD2	2:U:639:THR:HG22	2.01	0.96
2:Y:514:ARG:HG3	2:Y:535:LEU:HD13	1.47	0.96
2:Z:228:GLY:HA2	2:Z:345:SER:HB3	1.47	0.96
1:B:157:ILE:CB	2:V:579:PHE:CG	2.48	0.96
1:E:156:ASP:HB3	2:Y:579:PHE:HE1	1.30	0.96
2:Y:628:TYR:CD2	2:Y:639:THR:HG22	2.00	0.96
2:V:228:GLY:HA2	2:V:345:SER:HB3	1.48	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:628:TYR:CD2	2:X:639:THR:HG22	2.01	0.96
2:W:112:VAL:O	2:W:112:VAL:CG1	2.14	0.96
2:Z:628:TYR:CD2	2:Z:639:THR:HG22	2.01	0.96
2:Z:112:VAL:O	2:Z:112:VAL:CG1	2.14	0.95
2:W:628:TYR:CD2	2:W:639:THR:HG22	2.01	0.95
2:X:112:VAL:CG1	2:X:112:VAL:O	2.14	0.95
2:W:514:ARG:HG3	2:W:535:LEU:HD13	1.46	0.95
2:Y:409:PRO:O	2:Y:454:TYR:HE1	1.16	0.95
2:X:514:ARG:HG3	2:X:535:LEU:HD13	1.47	0.95
1:E:157:ILE:CG1	2:Y:579:PHE:CB	2.45	0.94
2:U:556:LEU:HD23	2:U:560:LEU:HD23	1.46	0.94
2:W:228:GLY:HA2	2:W:345:SER:HB3	1.47	0.94
1:A:157:ILE:CD1	2:U:579:PHE:CB	2.37	0.94
2:U:481:THR:HG21	2:U:496:ARG:NH2	1.82	0.94
2:V:112:VAL:O	2:V:112:VAL:CG1	2.14	0.94
2:Y:112:VAL:O	2:Y:112:VAL:CG1	2.14	0.94
2:Y:228:GLY:HA2	2:Y:345:SER:HB3	1.48	0.94
1:D:157:ILE:HG13	2:X:579:PHE:CB	1.97	0.94
2:U:112:VAL:O	2:U:112:VAL:CG1	2.14	0.94
2:X:228:GLY:HA2	2:X:345:SER:HB3	1.46	0.94
1:A:157:ILE:N	2:U:579:PHE:CD1	2.36	0.94
2:V:518:TYR:CE2	2:V:536:TYR:HB2	2.04	0.93
1:C:157:ILE:HG13	2:W:579:PHE:HB2	1.50	0.93
2:W:518:TYR:CE2	2:W:536:TYR:HB2	2.04	0.93
1:B:157:ILE:HG13	2:V:579:PHE:HB2	0.96	0.93
2:U:483:ASN:O	2:U:555:ARG:CB	2.17	0.93
2:U:518:TYR:CE2	2:U:536:TYR:HB2	2.04	0.93
2:Z:518:TYR:CE2	2:Z:536:TYR:HB2	2.03	0.93
2:W:514:ARG:CZ	2:W:535:LEU:HD22	1.99	0.93
2:V:409:PRO:O	2:V:454:TYR:HE1	1.16	0.92
2:Y:483:ASN:O	2:Y:555:ARG:CB	2.17	0.92
2:Z:481:THR:HG21	2:Z:496:ARG:NH2	1.84	0.92
2:Y:481:THR:HG21	2:Y:496:ARG:NH2	1.83	0.92
2:V:483:ASN:O	2:V:555:ARG:CB	2.17	0.92
2:V:514:ARG:CZ	2:V:535:LEU:HD22	2.00	0.92
2:X:408:SER:CA	2:X:451:ASP:HB3	2.00	0.92
2:W:408:SER:CA	2:W:451:ASP:HB3	2.00	0.92
2:X:514:ARG:CZ	2:X:535:LEU:HD22	1.99	0.92
2:X:518:TYR:CE2	2:X:536:TYR:HB2	2.04	0.92
2:U:514:ARG:CZ	2:U:535:LEU:HD22	2.00	0.91
2:V:408:SER:CA	2:V:451:ASP:HB3	2.00	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:483:ASN:O	2:Z:555:ARG:CB	2.17	0.91
1:A:157:ILE:HG13	2:U:579:PHE:HB2	0.93	0.91
2:W:483:ASN:O	2:W:555:ARG:CB	2.18	0.91
2:X:483:ASN:O	2:X:555:ARG:CB	2.17	0.91
2:Y:408:SER:CA	2:Y:451:ASP:HB3	2.00	0.91
2:Z:514:ARG:CZ	2:Z:535:LEU:HD22	1.99	0.91
2:V:496:ARG:N	2:V:534:VAL:HG21	1.86	0.91
2:V:23:SER:OG	2:V:483:ASN:CB	2.19	0.91
2:X:409:PRO:O	2:X:454:TYR:HE1	1.15	0.91
2:Y:514:ARG:CZ	2:Y:535:LEU:HD22	1.99	0.91
2:U:408:SER:CA	2:U:451:ASP:HB3	2.00	0.91
1:E:157:ILE:HB	2:Y:579:PHE:CD2	2.05	0.91
2:V:481:THR:HG21	2:V:496:ARG:NH2	1.84	0.91
2:Z:408:SER:CA	2:Z:451:ASP:HB3	2.00	0.91
2:W:23:SER:OG	2:W:483:ASN:CB	2.19	0.90
2:Y:23:SER:OG	2:Y:483:ASN:CB	2.19	0.90
2:Y:518:TYR:CE2	2:Y:536:TYR:HB2	2.04	0.90
2:Z:23:SER:OG	2:Z:483:ASN:CB	2.19	0.90
2:W:409:PRO:O	2:W:454:TYR:HE1	1.15	0.90
2:W:496:ARG:N	2:W:534:VAL:HG21	1.86	0.90
2:U:23:SER:OG	2:U:483:ASN:CB	2.19	0.90
2:V:482:ASP:OD2	2:V:552:ASN:ND2	2.05	0.90
1:C:157:ILE:CG1	2:W:579:PHE:CB	2.50	0.90
2:U:496:ARG:N	2:U:534:VAL:HG21	1.87	0.90
2:X:23:SER:OG	2:X:483:ASN:CB	2.19	0.89
2:X:482:ASP:OD2	2:X:552:ASN:ND2	2.05	0.89
2:Z:408:SER:HA	2:Z:451:ASP:HB3	1.54	0.89
2:W:481:THR:HG21	2:W:496:ARG:NH2	1.85	0.89
2:Z:409:PRO:O	2:Z:454:TYR:HE1	1.16	0.89
2:Z:496:ARG:N	2:Z:534:VAL:HG21	1.87	0.89
2:Z:482:ASP:OD2	2:Z:552:ASN:ND2	2.05	0.89
1:F:156:ASP:HB3	2:Z:579:PHE:CE1	2.07	0.89
2:Y:482:ASP:OD2	2:Y:552:ASN:ND2	2.05	0.89
2:U:483:ASN:O	2:U:555:ARG:HD3	1.73	0.89
2:V:408:SER:HA	2:V:451:ASP:HB3	1.54	0.89
2:X:496:ARG:N	2:X:534:VAL:HG21	1.86	0.89
2:V:483:ASN:O	2:V:555:ARG:HD3	1.73	0.89
2:W:482:ASP:OD2	2:W:552:ASN:ND2	2.05	0.88
2:W:408:SER:HA	2:W:451:ASP:HB3	1.54	0.88
2:W:483:ASN:O	2:W:555:ARG:HD3	1.73	0.88
2:Y:496:ARG:N	2:Y:534:VAL:HG21	1.87	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:482:ASP:OD2	2:U:552:ASN:ND2	2.05	0.88
2:Y:408:SER:HA	2:Y:451:ASP:HB3	1.54	0.88
2:X:481:THR:HG21	2:X:496:ARG:NH2	1.87	0.88
2:Y:23:SER:CB	2:Y:483:ASN:HB3	2.04	0.88
2:X:23:SER:CB	2:X:483:ASN:HB3	2.04	0.87
2:Z:483:ASN:O	2:Z:555:ARG:HD3	1.74	0.87
2:U:404:LEU:CG	2:U:554:ARG:NH1	2.00	0.87
2:Y:41:ILE:HD11	2:Y:361:PHE:HB3	1.56	0.87
1:A:157:ILE:CG1	2:U:579:PHE:HB2	1.87	0.87
1:B:157:ILE:HB	2:V:579:PHE:CE2	2.10	0.87
2:X:483:ASN:O	2:X:555:ARG:HD3	1.73	0.87
2:Y:483:ASN:O	2:Y:555:ARG:HD3	1.73	0.87
2:Z:23:SER:CB	2:Z:483:ASN:HB3	2.04	0.87
2:X:408:SER:HA	2:X:451:ASP:HB3	1.54	0.87
2:U:23:SER:CB	2:U:483:ASN:HB3	2.04	0.87
2:W:505:LEU:HD13	2:W:525:VAL:HG11	1.57	0.87
2:Z:41:ILE:HD11	2:Z:361:PHE:HB3	1.57	0.87
2:U:408:SER:HA	2:U:451:ASP:HB3	1.54	0.87
2:Z:517:LEU:HD12	2:Z:518:TYR:N	1.90	0.87
2:W:23:SER:CB	2:W:483:ASN:HB3	2.04	0.86
1:C:157:ILE:HG13	2:W:579:PHE:CG	2.08	0.86
2:U:41:ILE:HD11	2:U:361:PHE:HB3	1.57	0.86
2:U:505:LEU:HD13	2:U:525:VAL:HG11	1.57	0.86
2:U:517:LEU:HD12	2:U:518:TYR:N	1.90	0.86
2:X:41:ILE:HD11	2:X:361:PHE:HB3	1.57	0.86
2:V:23:SER:CB	2:V:483:ASN:HB3	2.04	0.86
2:V:391:LYS:NZ	2:V:440:ASN:ND2	2.23	0.86
2:Z:391:LYS:NZ	2:Z:440:ASN:ND2	2.23	0.86
2:U:517:LEU:HB2	2:U:522:ILE:CG2	2.06	0.86
2:X:524:PRO:HB2	2:X:535:LEU:HD12	1.56	0.86
1:B:157:ILE:CG1	2:V:579:PHE:HB2	1.82	0.86
1:D:109:TYR:HB3	1:D:161:ARG:HH22	1.39	0.86
2:U:23:SER:OG	2:U:483:ASN:HB3	1.76	0.86
2:U:391:LYS:NZ	2:U:440:ASN:ND2	2.23	0.86
2:W:391:LYS:HE3	2:W:440:ASN:O	1.76	0.86
2:X:391:LYS:HE3	2:X:440:ASN:O	1.76	0.86
2:V:517:LEU:HB2	2:V:522:ILE:CG2	2.06	0.86
2:Z:517:LEU:HB2	2:Z:522:ILE:CG2	2.06	0.86
1:C:157:ILE:HD12	2:W:579:PHE:HB3	1.55	0.86
2:U:524:PRO:HB2	2:U:535:LEU:HD12	1.57	0.86
2:W:517:LEU:HB2	2:W:522:ILE:CG2	2.06	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y:391:LYS:HE3	2:Y:440:ASN:O	1.76	0.86
2:Y:517:LEU:HD12	2:Y:518:TYR:N	1.90	0.86
2:W:391:LYS:NZ	2:W:440:ASN:ND2	2.23	0.86
2:Y:481:THR:HG21	2:Y:496:ARG:CZ	2.06	0.86
2:Z:23:SER:OG	2:Z:483:ASN:HB3	1.76	0.86
2:Y:23:SER:OG	2:Y:483:ASN:HB3	1.76	0.85
2:Y:391:LYS:NZ	2:Y:440:ASN:ND2	2.23	0.85
2:V:391:LYS:HE3	2:V:440:ASN:O	1.75	0.85
2:X:391:LYS:NZ	2:X:440:ASN:ND2	2.23	0.85
2:V:41:ILE:HD11	2:V:361:PHE:HB3	1.57	0.85
2:W:41:ILE:HD11	2:W:361:PHE:HB3	1.56	0.85
2:X:505:LEU:HD13	2:X:525:VAL:HG11	1.57	0.85
2:X:517:LEU:HD12	2:X:518:TYR:N	1.90	0.85
2:X:517:LEU:HB2	2:X:522:ILE:CG2	2.06	0.85
2:W:23:SER:OG	2:W:483:ASN:HB3	1.76	0.85
2:X:23:SER:CB	2:X:483:ASN:CB	2.55	0.85
2:U:481:THR:HG21	2:U:496:ARG:CZ	2.06	0.85
2:Y:517:LEU:HB2	2:Y:522:ILE:CG2	2.06	0.85
2:V:627:PHE:CZ	2:V:640:LEU:HB3	2.12	0.85
2:X:23:SER:OG	2:X:483:ASN:HB3	1.76	0.85
2:Z:505:LEU:HD13	2:Z:525:VAL:HG11	1.57	0.85
2:U:391:LYS:HE3	2:U:440:ASN:O	1.75	0.84
2:Y:23:SER:CB	2:Y:483:ASN:CB	2.55	0.84
2:W:517:LEU:HD12	2:W:518:TYR:N	1.91	0.84
2:Y:454:TYR:HE2	2:Y:469:PRO:HA	1.42	0.84
2:W:23:SER:CB	2:W:483:ASN:CB	2.55	0.84
2:Y:627:PHE:CZ	2:Y:640:LEU:HB3	2.13	0.84
2:Z:481:THR:HG21	2:Z:496:ARG:CZ	2.07	0.84
1:C:157:ILE:CD1	2:W:579:PHE:CB	2.55	0.84
1:C:157:ILE:HD11	2:W:579:PHE:HB3	1.57	0.84
2:V:404:LEU:CG	2:V:554:ARG:NH1	2.00	0.84
2:Z:391:LYS:HE3	2:Z:440:ASN:O	1.75	0.84
2:U:23:SER:CB	2:U:483:ASN:CB	2.56	0.84
2:V:505:LEU:HD13	2:V:525:VAL:HG11	1.57	0.84
2:U:627:PHE:CZ	2:U:640:LEU:HB3	2.12	0.84
2:V:23:SER:OG	2:V:483:ASN:HB3	1.76	0.84
2:V:23:SER:CB	2:V:483:ASN:CB	2.55	0.84
2:V:481:THR:HG21	2:V:496:ARG:CZ	2.08	0.84
2:W:524:PRO:HB2	2:W:535:LEU:HD12	1.57	0.84
2:Z:524:PRO:HB2	2:Z:535:LEU:HD12	1.57	0.84
2:V:517:LEU:HD12	2:V:518:TYR:N	1.91	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y:524:PRO:HB2	2:Y:535:LEU:HD12	1.58	0.84
1:D:156:ASP:HB3	2:X:579:PHE:HE1	1.39	0.84
2:V:524:PRO:HB2	2:V:535:LEU:HD12	1.58	0.84
2:X:627:PHE:CZ	2:X:640:LEU:HB3	2.12	0.84
2:Z:23:SER:CB	2:Z:483:ASN:CB	2.55	0.84
2:W:481:THR:HG21	2:W:496:ARG:CZ	2.08	0.84
2:W:568:SER:O	2:W:571:ARG:HG2	1.78	0.84
2:X:404:LEU:CG	2:X:554:ARG:NH1	2.00	0.84
2:X:454:TYR:HE2	2:X:469:PRO:HA	1.43	0.84
2:Y:505:LEU:HD13	2:Y:525:VAL:HG11	1.56	0.84
2:W:627:PHE:CZ	2:W:640:LEU:HB3	2.12	0.84
2:U:331:PRO:HB2	2:U:334:PHE:HB2	1.60	0.83
2:U:568:SER:O	2:U:571:ARG:HG2	1.78	0.83
2:X:331:PRO:HB2	2:X:334:PHE:HB2	1.60	0.83
2:U:622:GLU:CD	2:U:645:THR:HA	1.99	0.83
2:V:331:PRO:HB2	2:V:334:PHE:HB2	1.60	0.83
2:Z:627:PHE:CZ	2:Z:640:LEU:HB3	2.12	0.83
1:C:109:TYR:HB3	1:C:161:ARG:HH22	1.41	0.83
2:Z:94:PRO:HB2	2:Z:219:ILE:HD12	1.61	0.83
2:W:331:PRO:HB2	2:W:334:PHE:HB2	1.60	0.83
1:D:157:ILE:CD1	2:X:579:PHE:CB	2.57	0.83
2:W:404:LEU:CG	2:W:554:ARG:NH1	2.00	0.83
2:X:539:LYS:HE2	2:X:541:ALA:HA	1.61	0.83
2:X:568:SER:O	2:X:571:ARG:HG2	1.78	0.83
1:A:157:ILE:HB	2:U:579:PHE:CG	2.13	0.83
2:Y:331:PRO:HB2	2:Y:334:PHE:HB2	1.60	0.83
2:Y:622:GLU:CD	2:Y:645:THR:HA	2.00	0.83
2:X:94:PRO:HB2	2:X:219:ILE:HD12	1.61	0.83
2:Z:568:SER:O	2:Z:571:ARG:HG2	1.78	0.83
2:V:568:SER:O	2:V:571:ARG:HG2	1.78	0.83
2:Z:331:PRO:HB2	2:Z:334:PHE:HB2	1.61	0.82
2:W:614:THR:HB	2:W:620:ARG:HA	1.61	0.82
2:U:94:PRO:HB2	2:U:219:ILE:HD12	1.61	0.82
2:W:94:PRO:HB2	2:W:219:ILE:HD12	1.61	0.82
2:W:622:GLU:CD	2:W:645:THR:HA	1.99	0.82
2:Y:404:LEU:CG	2:Y:554:ARG:NH1	2.00	0.82
2:Y:568:SER:O	2:Y:571:ARG:HG2	1.78	0.82
1:B:109:TYR:HB3	1:B:161:ARG:HH22	1.45	0.82
2:U:379:ALA:HB2	2:U:454:TYR:CZ	2.10	0.82
2:W:539:LYS:HE2	2:W:541:ALA:HA	1.62	0.82
2:Z:454:TYR:HE2	2:Z:469:PRO:HA	1.43	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:454:TYR:HE2	2:W:469:PRO:HA	1.43	0.82
2:X:481:THR:HG21	2:X:496:ARG:CZ	2.09	0.82
2:U:110:TYR:CE1	2:U:178:LEU:O	2.33	0.82
2:U:454:TYR:HE2	2:U:469:PRO:HA	1.43	0.82
2:V:614:THR:HB	2:V:620:ARG:HA	1.61	0.82
2:V:622:GLU:CD	2:V:645:THR:HA	1.99	0.81
2:X:622:GLU:CD	2:X:645:THR:HA	1.99	0.81
2:W:110:TYR:CE1	2:W:178:LEU:O	2.33	0.81
2:Z:622:GLU:CD	2:Z:645:THR:HA	2.00	0.81
1:E:157:ILE:HB	2:Y:579:PHE:CG	2.15	0.81
2:V:110:TYR:CE1	2:V:178:LEU:O	2.33	0.81
2:V:379:ALA:HB1	2:V:454:TYR:OH	1.74	0.81
1:E:157:ILE:CG1	2:Y:579:PHE:HB3	2.07	0.81
2:V:539:LYS:HE2	2:V:541:ALA:HA	1.62	0.81
2:W:404:LEU:HG	2:W:554:ARG:HH11	1.46	0.81
1:A:109:TYR:HB3	1:A:161:ARG:HH22	1.44	0.81
2:V:404:LEU:HG	2:V:554:ARG:HH11	1.46	0.81
2:U:404:LEU:CD2	2:U:554:ARG:HH12	1.94	0.81
2:W:496:ARG:N	2:W:534:VAL:CG1	2.43	0.81
2:W:547:PRO:O	2:W:553:VAL:HG22	1.81	0.81
2:Y:110:TYR:CE1	2:Y:178:LEU:O	2.33	0.81
2:Y:496:ARG:N	2:Y:534:VAL:CG1	2.44	0.81
2:V:404:LEU:CD2	2:V:554:ARG:HH12	1.94	0.81
2:U:496:ARG:N	2:U:534:VAL:CG1	2.44	0.80
2:V:379:ALA:HB2	2:V:454:TYR:CZ	2.11	0.80
2:X:112:VAL:O	2:X:112:VAL:HG12	1.81	0.80
2:X:110:TYR:CE1	2:X:178:LEU:O	2.33	0.80
2:X:524:PRO:HG2	2:X:535:LEU:CB	2.10	0.80
2:X:614:THR:HB	2:X:620:ARG:HA	1.61	0.80
2:Y:94:PRO:HB2	2:Y:219:ILE:HD12	1.61	0.80
2:Y:614:THR:HB	2:Y:620:ARG:HA	1.62	0.80
2:Z:404:LEU:CD2	2:Z:554:ARG:HH12	1.94	0.80
1:D:157:ILE:CG1	2:X:579:PHE:CB	2.59	0.80
1:E:156:ASP:CB	2:Y:579:PHE:CE1	2.61	0.80
2:Y:23:SER:HB3	2:Y:483:ASN:HB3	1.64	0.80
2:Z:547:PRO:O	2:Z:553:VAL:HG22	1.82	0.80
2:U:524:PRO:CB	2:U:535:LEU:HD12	2.11	0.80
2:U:614:THR:HB	2:U:620:ARG:HA	1.61	0.80
2:V:23:SER:HB3	2:V:483:ASN:HB3	1.64	0.80
2:X:524:PRO:CB	2:X:535:LEU:HD12	2.11	0.80
2:X:547:PRO:O	2:X:553:VAL:HG22	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y:404:LEU:CD2	2:Y:554:ARG:HH12	1.94	0.80
1:A:157:ILE:CB	2:U:579:PHE:CD2	2.63	0.80
2:Y:112:VAL:O	2:Y:112:VAL:HG12	1.82	0.80
2:Y:547:PRO:O	2:Y:553:VAL:HG22	1.82	0.80
2:Z:110:TYR:CE1	2:Z:178:LEU:O	2.34	0.80
2:V:94:PRO:HB2	2:V:219:ILE:HD12	1.61	0.80
2:X:404:LEU:CD2	2:X:554:ARG:HH12	1.94	0.80
2:V:23:SER:HB3	2:V:559:MET:SD	2.22	0.80
2:V:496:ARG:N	2:V:534:VAL:CG1	2.44	0.80
2:W:379:ALA:HB2	2:W:454:TYR:CZ	2.11	0.80
2:W:450:ILE:H	2:W:540:THR:CG2	1.95	0.80
2:X:496:ARG:N	2:X:534:VAL:CG1	2.44	0.80
2:U:539:LYS:HE2	2:U:541:ALA:HA	1.62	0.80
2:W:23:SER:CB	2:W:559:MET:SD	2.70	0.80
2:W:112:VAL:O	2:W:112:VAL:HG12	1.81	0.80
2:X:379:ALA:HB2	2:X:454:TYR:CZ	2.11	0.80
2:X:404:LEU:HG	2:X:554:ARG:HH11	1.45	0.80
2:V:112:VAL:O	2:V:112:VAL:HG12	1.82	0.80
2:V:450:ILE:H	2:V:540:THR:CG2	1.95	0.80
2:V:454:TYR:HE2	2:V:469:PRO:HA	1.42	0.80
2:W:23:SER:HB3	2:W:483:ASN:HB3	1.64	0.80
2:X:450:ILE:H	2:X:540:THR:CG2	1.95	0.80
2:Z:23:SER:CB	2:Z:559:MET:SD	2.70	0.80
2:Z:23:SER:HB3	2:Z:559:MET:SD	2.22	0.80
2:U:446:THR:CG2	2:U:542:THR:HG21	2.07	0.79
2:U:23:SER:CB	2:U:559:MET:SD	2.70	0.79
2:U:23:SER:HB3	2:U:559:MET:SD	2.22	0.79
2:V:23:SER:CB	2:V:559:MET:SD	2.70	0.79
2:X:23:SER:CB	2:X:559:MET:SD	2.70	0.79
2:Y:23:SER:CB	2:Y:559:MET:SD	2.70	0.79
2:Z:23:SER:HB3	2:Z:483:ASN:HB3	1.64	0.79
2:Z:446:THR:CG2	2:Z:542:THR:HG21	2.06	0.79
2:Z:496:ARG:N	2:Z:534:VAL:CG1	2.44	0.79
2:U:404:LEU:HG	2:U:554:ARG:HH11	1.45	0.79
2:Y:614:THR:CB	2:Y:620:ARG:HA	2.13	0.79
2:Z:524:PRO:CB	2:Z:535:LEU:HD12	2.12	0.79
2:Z:614:THR:HB	2:Z:620:ARG:HA	1.62	0.79
2:V:547:PRO:O	2:V:553:VAL:HG22	1.81	0.79
2:Y:505:LEU:CD1	2:Y:525:VAL:CG1	2.60	0.79
2:U:178:LEU:HD23	2:U:178:LEU:H	1.48	0.79
2:U:547:PRO:O	2:U:553:VAL:HG22	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:112:VAL:O	2:Z:112:VAL:HG12	1.81	0.79
2:W:524:PRO:CB	2:W:535:LEU:HD12	2.12	0.79
2:Y:450:ILE:H	2:Y:540:THR:CG2	1.95	0.79
2:U:112:VAL:O	2:U:112:VAL:HG12	1.82	0.79
2:V:505:LEU:CD1	2:V:525:VAL:CG1	2.61	0.79
2:X:23:SER:HB3	2:X:559:MET:SD	2.22	0.79
2:X:479:ALA:HA	2:X:484:VAL:HG11	1.65	0.79
2:Y:524:PRO:CB	2:Y:535:LEU:HD12	2.12	0.79
2:U:524:PRO:HG2	2:U:535:LEU:CB	2.10	0.79
2:W:23:SER:HB3	2:W:559:MET:SD	2.23	0.79
2:X:178:LEU:HD23	2:X:178:LEU:H	1.48	0.79
1:A:157:ILE:CB	2:U:579:PHE:CG	2.66	0.79
2:V:614:THR:CB	2:V:620:ARG:HA	2.13	0.79
2:W:524:PRO:HG2	2:W:535:LEU:CB	2.10	0.79
2:U:23:SER:HB3	2:U:483:ASN:HB3	1.64	0.79
2:Y:23:SER:HB3	2:Y:559:MET:SD	2.22	0.78
2:Y:379:ALA:HB2	2:Y:454:TYR:CZ	2.11	0.78
2:Z:614:THR:CB	2:Z:620:ARG:HA	2.13	0.78
2:X:614:THR:CB	2:X:620:ARG:HA	2.13	0.78
2:Z:404:LEU:CG	2:Z:554:ARG:NH1	2.00	0.78
2:V:524:PRO:CB	2:V:535:LEU:HD12	2.12	0.78
2:W:614:THR:CB	2:W:620:ARG:HA	2.13	0.78
2:X:23:SER:HB3	2:X:483:ASN:HB3	1.64	0.78
1:F:156:ASP:HB3	2:Z:579:PHE:HE1	1.44	0.78
2:U:614:THR:CB	2:U:620:ARG:HA	2.13	0.78
2:Y:450:ILE:HG22	2:Y:540:THR:HG22	1.65	0.78
1:A:157:ILE:CG1	2:U:579:PHE:CG	2.60	0.78
2:U:450:ILE:H	2:U:540:THR:CG2	1.95	0.78
2:U:505:LEU:CD1	2:U:525:VAL:CG1	2.61	0.78
2:V:479:ALA:HA	2:V:484:VAL:HG11	1.65	0.78
2:W:505:LEU:HD11	2:W:525:VAL:HG11	1.64	0.78
2:Y:178:LEU:HD23	2:Y:178:LEU:H	1.48	0.78
2:Y:454:TYR:CE2	2:Y:469:PRO:CA	2.67	0.78
2:W:479:ALA:HA	2:W:484:VAL:HG11	1.66	0.78
2:Z:178:LEU:HD23	2:Z:178:LEU:H	1.48	0.78
2:Y:479:ALA:HA	2:Y:484:VAL:HG11	1.65	0.78
2:Z:450:ILE:HG22	2:Z:540:THR:HG22	1.66	0.78
2:U:454:TYR:CE2	2:U:469:PRO:CA	2.67	0.78
2:X:450:ILE:HG22	2:X:540:THR:HG22	1.66	0.78
2:Z:505:LEU:CD1	2:Z:525:VAL:CG1	2.61	0.78
2:Z:539:LYS:HE2	2:Z:541:ALA:HA	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:595:ASN:HB2	2:Z:601:ILE:HD12	1.66	0.78
2:V:524:PRO:HG2	2:V:535:LEU:CB	2.10	0.77
2:X:505:LEU:CD1	2:X:525:VAL:CG1	2.61	0.77
2:V:454:TYR:CE2	2:V:469:PRO:CA	2.67	0.77
2:V:518:TYR:OH	2:V:535:LEU:HB3	1.84	0.77
2:X:84:VAL:HG13	2:X:85:ASP:O	1.85	0.77
2:Y:407:CYS:O	2:Y:451:ASP:CB	2.32	0.77
2:U:505:LEU:HD11	2:U:525:VAL:HG11	1.65	0.77
2:W:450:ILE:HG22	2:W:540:THR:HG22	1.66	0.77
2:W:518:TYR:OH	2:W:535:LEU:HB3	1.85	0.77
2:Z:454:TYR:CE2	2:Z:469:PRO:CA	2.68	0.77
2:U:84:VAL:HG13	2:U:85:ASP:O	1.85	0.77
2:U:481:THR:CG2	2:U:496:ARG:NH2	2.47	0.77
2:W:404:LEU:CD2	2:W:554:ARG:HH12	1.95	0.77
2:Y:481:THR:CG2	2:Y:496:ARG:NH2	2.48	0.77
2:Z:407:CYS:O	2:Z:451:ASP:CB	2.33	0.77
2:Z:450:ILE:H	2:Z:540:THR:CG2	1.95	0.77
2:U:450:ILE:HG22	2:U:540:THR:HG22	1.66	0.77
2:V:505:LEU:HD11	2:V:525:VAL:HG11	1.64	0.77
2:U:407:CYS:O	2:U:451:ASP:HB2	1.85	0.77
2:V:178:LEU:HD23	2:V:178:LEU:H	1.49	0.77
2:V:450:ILE:HG22	2:V:540:THR:CG2	2.15	0.77
2:W:407:CYS:O	2:W:451:ASP:CB	2.33	0.77
2:W:449:ALA:HA	2:W:540:THR:HG23	1.67	0.77
2:X:518:TYR:OH	2:X:535:LEU:HB3	1.85	0.77
2:Y:84:VAL:HG13	2:Y:85:ASP:O	1.85	0.77
2:U:595:ASN:HB2	2:U:601:ILE:HD12	1.67	0.77
2:U:628:TYR:HD2	2:U:639:THR:HG22	1.50	0.77
2:X:407:CYS:O	2:X:451:ASP:HB2	1.85	0.77
2:Z:524:PRO:HG2	2:Z:535:LEU:CB	2.10	0.77
2:V:407:CYS:O	2:V:451:ASP:CB	2.33	0.77
2:Y:407:CYS:O	2:Y:451:ASP:HB2	1.84	0.77
2:Z:479:ALA:HA	2:Z:484:VAL:HG11	1.65	0.77
2:Z:505:LEU:HD11	2:Z:525:VAL:HG11	1.64	0.77
2:X:505:LEU:HD11	2:X:525:VAL:HG11	1.64	0.77
2:X:557:PHE:CZ	2:X:638:ILE:HG22	2.20	0.77
2:U:570:TYR:HD2	2:U:584:PHE:CE2	2.03	0.77
2:V:450:ILE:HG22	2:V:540:THR:HG22	1.65	0.77
2:V:557:PHE:CZ	2:V:638:ILE:HG22	2.20	0.77
2:W:451:ASP:OD1	2:W:474:ILE:HD13	1.85	0.77
2:X:178:LEU:H	2:X:178:LEU:CD2	1.98	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:454:TYR:CE2	2:X:469:PRO:CA	2.67	0.77
2:Y:524:PRO:HG2	2:Y:535:LEU:CB	2.10	0.77
2:Y:595:ASN:HB2	2:Y:601:ILE:HD12	1.67	0.77
2:Y:628:TYR:HD2	2:Y:639:THR:HG22	1.49	0.77
2:Z:84:VAL:HG13	2:Z:85:ASP:O	1.85	0.77
2:U:479:ALA:HA	2:U:484:VAL:HG11	1.65	0.76
2:U:518:TYR:OH	2:U:535:LEU:HB3	1.85	0.76
2:W:178:LEU:H	2:W:178:LEU:HD23	1.49	0.76
2:W:450:ILE:HG22	2:W:540:THR:CG2	2.15	0.76
2:Y:557:PHE:CZ	2:Y:638:ILE:HG22	2.20	0.76
2:Z:451:ASP:OD1	2:Z:474:ILE:HD13	1.85	0.76
2:Z:557:PHE:CZ	2:Z:638:ILE:HG22	2.20	0.76
2:V:407:CYS:O	2:V:451:ASP:HB2	1.85	0.76
2:V:570:TYR:HD2	2:V:584:PHE:CE2	2.04	0.76
2:X:449:ALA:HA	2:X:540:THR:HG23	1.67	0.76
2:X:450:ILE:HG22	2:X:540:THR:CG2	2.15	0.76
2:Z:178:LEU:H	2:Z:178:LEU:CD2	1.98	0.76
2:Z:449:ALA:HA	2:Z:540:THR:HG23	1.66	0.76
2:Z:518:TYR:OH	2:Z:535:LEU:HB3	1.85	0.76
2:U:407:CYS:O	2:U:451:ASP:CB	2.33	0.76
2:V:449:ALA:HA	2:V:540:THR:HG23	1.66	0.76
2:W:24:THR:O	2:W:371:GLN:OE1	2.03	0.76
2:W:407:CYS:O	2:W:451:ASP:HB2	1.85	0.76
2:Y:451:ASP:OD1	2:Y:474:ILE:HD13	1.86	0.76
2:U:450:ILE:HG22	2:U:540:THR:CG2	2.15	0.76
2:U:557:PHE:CZ	2:U:638:ILE:HG22	2.20	0.76
2:V:84:VAL:HG13	2:V:85:ASP:O	1.85	0.76
2:V:451:ASP:OD1	2:V:474:ILE:HD13	1.86	0.76
2:X:407:CYS:O	2:X:451:ASP:CB	2.32	0.76
2:Y:450:ILE:CG1	2:Y:451:ASP:H	1.89	0.76
2:Z:112:VAL:O	2:Z:131:ILE:O	2.04	0.76
2:U:110:TYR:HE1	2:U:178:LEU:O	1.68	0.76
2:V:595:ASN:HB2	2:V:601:ILE:HD12	1.67	0.76
2:W:84:VAL:HG13	2:W:85:ASP:O	1.85	0.76
2:Y:450:ILE:HG22	2:Y:540:THR:CG2	2.15	0.76
2:Z:450:ILE:HG22	2:Z:540:THR:CG2	2.15	0.76
2:U:171:ILE:HG22	2:U:172:SER:H	1.50	0.76
2:W:570:TYR:HD2	2:W:584:PHE:CE2	2.03	0.76
2:Y:178:LEU:H	2:Y:178:LEU:CD2	1.98	0.76
2:Z:379:ALA:HB2	2:Z:454:TYR:CZ	2.11	0.76
2:U:178:LEU:H	2:U:178:LEU:CD2	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:178:LEU:H	2:W:178:LEU:CD2	1.99	0.76
2:W:450:ILE:H	2:W:540:THR:HG23	1.51	0.76
2:X:451:ASP:OD1	2:X:474:ILE:HD13	1.86	0.76
2:X:595:ASN:HB2	2:X:601:ILE:HD12	1.67	0.76
2:Z:171:ILE:HG22	2:Z:172:SER:H	1.50	0.76
2:Z:407:CYS:O	2:Z:451:ASP:HB2	1.85	0.76
2:Z:481:THR:CG2	2:Z:496:ARG:NH2	2.49	0.76
2:Z:628:TYR:HD2	2:Z:639:THR:HG22	1.51	0.76
2:V:112:VAL:O	2:V:131:ILE:O	2.04	0.76
2:Y:518:TYR:OH	2:Y:535:LEU:HB3	1.85	0.76
2:Z:379:ALA:HB1	2:Z:454:TYR:OH	1.73	0.76
2:U:112:VAL:O	2:U:131:ILE:O	2.04	0.76
2:U:451:ASP:OD1	2:U:474:ILE:HD13	1.86	0.76
2:W:454:TYR:CE2	2:W:469:PRO:CA	2.68	0.76
2:W:557:PHE:CZ	2:W:638:ILE:HG22	2.21	0.76
2:Y:570:TYR:HD2	2:Y:584:PHE:CE2	2.04	0.76
2:Z:570:TYR:HD2	2:Z:584:PHE:CE2	2.04	0.76
2:V:628:TYR:HD2	2:V:639:THR:HG22	1.50	0.75
2:Y:112:VAL:O	2:Y:131:ILE:O	2.04	0.75
2:Y:446:THR:CG2	2:Y:542:THR:HG21	2.07	0.75
2:Z:404:LEU:HG	2:Z:554:ARG:HH11	1.46	0.75
2:W:112:VAL:O	2:W:131:ILE:O	2.04	0.75
2:W:595:ASN:HB2	2:W:601:ILE:HD12	1.67	0.75
2:Y:449:ALA:HA	2:Y:540:THR:HG23	1.66	0.75
2:W:110:TYR:HE1	2:W:178:LEU:O	1.68	0.75
2:X:450:ILE:H	2:X:540:THR:HG23	1.51	0.75
2:Z:22:ASN:O	2:Z:23:SER:OG	2.04	0.75
2:W:517:LEU:CD1	2:W:524:PRO:HG3	2.16	0.75
2:X:24:THR:O	2:X:371:GLN:OE1	2.04	0.75
2:U:517:LEU:CD1	2:U:524:PRO:HG3	2.17	0.75
2:V:24:THR:O	2:V:371:GLN:OE1	2.04	0.75
2:V:450:ILE:H	2:V:540:THR:HG23	1.51	0.75
2:V:171:ILE:HG22	2:V:172:SER:H	1.50	0.75
2:X:171:ILE:HG22	2:X:172:SER:H	1.51	0.75
2:Z:517:LEU:CD1	2:Z:524:PRO:HG3	2.16	0.75
2:V:110:TYR:HE1	2:V:178:LEU:O	1.69	0.75
2:V:481:THR:CG2	2:V:496:ARG:NH2	2.49	0.75
2:X:112:VAL:O	2:X:131:ILE:O	2.05	0.75
2:X:570:TYR:HD2	2:X:584:PHE:CE2	2.04	0.75
2:V:517:LEU:CD1	2:V:524:PRO:HG3	2.17	0.75
2:X:391:LYS:HZ3	2:X:440:ASN:HD21	1.35	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:517:LEU:CD1	2:X:524:PRO:HG3	2.16	0.75
2:Y:450:ILE:H	2:Y:540:THR:HG23	1.51	0.75
2:U:24:THR:O	2:U:371:GLN:OE1	2.04	0.74
2:W:505:LEU:CD1	2:W:525:VAL:CG1	2.61	0.74
2:X:26:THR:HA	2:X:77:ASP:OD1	1.87	0.74
2:Y:26:THR:HA	2:Y:77:ASP:OD1	1.87	0.74
2:U:22:ASN:O	2:U:23:SER:OG	2.04	0.74
2:V:26:THR:HA	2:V:77:ASP:OD1	1.87	0.74
2:U:391:LYS:HZ1	2:U:440:ASN:ND2	1.84	0.74
2:V:178:LEU:H	2:V:178:LEU:CD2	1.99	0.74
2:Y:24:THR:O	2:Y:371:GLN:OE1	2.04	0.74
2:Y:517:LEU:CD1	2:Y:524:PRO:HG3	2.16	0.74
2:Z:24:THR:O	2:Z:371:GLN:OE1	2.03	0.74
2:U:449:ALA:HA	2:U:540:THR:HG23	1.67	0.74
2:X:628:TYR:HD2	2:X:639:THR:HG22	1.51	0.74
2:Z:110:TYR:HE1	2:Z:178:LEU:O	1.69	0.74
2:U:450:ILE:H	2:U:540:THR:HG23	1.51	0.74
2:V:523:ASN:HD21	2:V:538:ASP:HB3	1.53	0.74
2:W:171:ILE:HG22	2:W:172:SER:H	1.51	0.74
2:X:409:PRO:O	2:X:454:TYR:OH	2.06	0.74
2:W:446:THR:CG2	2:W:542:THR:HG21	2.07	0.74
2:W:523:ASN:HD21	2:W:538:ASP:HB3	1.53	0.74
2:V:496:ARG:HG3	2:V:496:ARG:O	1.88	0.74
2:X:556:LEU:HD23	2:X:560:LEU:CD2	2.18	0.74
2:Z:26:THR:HA	2:Z:77:ASP:OD1	1.87	0.74
2:Z:450:ILE:H	2:Z:540:THR:HG23	1.51	0.74
2:Z:450:ILE:CG1	2:Z:451:ASP:H	1.89	0.74
2:W:22:ASN:O	2:W:23:SER:OG	2.05	0.74
2:W:26:THR:HA	2:W:77:ASP:OD1	1.88	0.74
2:Y:171:ILE:HG22	2:Y:172:SER:H	1.51	0.74
2:W:379:ALA:HB1	2:W:454:TYR:OH	1.74	0.74
2:W:450:ILE:CG1	2:W:451:ASP:H	1.88	0.74
2:Y:22:ASN:O	2:Y:23:SER:OG	2.05	0.74
2:Y:110:TYR:HE1	2:Y:178:LEU:O	1.69	0.74
2:V:450:ILE:CG1	2:V:451:ASP:H	1.89	0.73
2:V:517:LEU:HD22	2:V:524:PRO:HB3	1.70	0.73
2:X:627:PHE:CZ	2:X:640:LEU:HD23	2.23	0.73
2:U:26:THR:HA	2:U:77:ASP:OD1	1.87	0.73
2:U:450:ILE:CG1	2:U:451:ASP:H	1.89	0.73
2:U:521:ALA:HB1	2:U:540:THR:HA	1.70	0.73
2:U:523:ASN:HD21	2:U:538:ASP:HB3	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:409:PRO:O	2:W:454:TYR:OH	2.06	0.73
2:W:556:LEU:HD23	2:W:560:LEU:CD2	2.18	0.73
2:Y:505:LEU:HD11	2:Y:525:VAL:HG11	1.64	0.73
2:Z:627:PHE:CZ	2:Z:640:LEU:HD23	2.23	0.73
1:C:157:ILE:HB	2:W:579:PHE:CD2	2.22	0.73
2:V:446:THR:CG2	2:V:542:THR:HG21	2.07	0.73
2:W:496:ARG:HG3	2:W:496:ARG:O	1.88	0.73
2:Y:523:ASN:HD21	2:Y:538:ASP:HB3	1.53	0.73
2:V:112:VAL:O	2:V:112:VAL:HG13	1.88	0.73
2:V:409:PRO:O	2:V:454:TYR:OH	2.06	0.73
2:W:481:THR:CG2	2:W:496:ARG:NH2	2.51	0.73
2:X:517:LEU:HD22	2:X:524:PRO:HB3	1.70	0.73
2:W:628:TYR:HD2	2:W:639:THR:HG22	1.51	0.73
2:Y:409:PRO:O	2:Y:454:TYR:OH	2.06	0.73
2:Y:517:LEU:HD22	2:Y:524:PRO:HB3	1.70	0.73
2:Z:391:LYS:HZ1	2:Z:440:ASN:ND2	1.84	0.73
2:Z:523:ASN:HD21	2:Z:538:ASP:HB3	1.53	0.73
2:X:454:TYR:HD2	2:X:469:PRO:HA	1.53	0.73
2:Y:627:PHE:CZ	2:Y:640:LEU:HD23	2.24	0.73
2:U:526:THR:CG2	2:U:535:LEU:HD21	2.19	0.73
2:W:112:VAL:O	2:W:112:VAL:HG13	1.88	0.73
2:X:523:ASN:HD21	2:X:538:ASP:HB3	1.53	0.73
2:Y:172:SER:C	2:Y:174:SER:HA	2.09	0.73
2:V:521:ALA:HB1	2:V:540:THR:HA	1.70	0.73
2:W:391:LYS:HZ3	2:W:440:ASN:HD21	1.37	0.73
2:Y:404:LEU:HG	2:Y:554:ARG:HH11	1.45	0.73
2:Y:556:LEU:HD23	2:Y:560:LEU:CD2	2.19	0.73
2:Z:526:THR:CG2	2:Z:535:LEU:HD11	2.19	0.73
1:F:108:GLN:HB3	1:F:200:PRO:HD2	1.70	0.73
2:W:517:LEU:HD22	2:W:524:PRO:HB3	1.71	0.73
2:W:627:PHE:CZ	2:W:640:LEU:HD23	2.23	0.73
2:Z:409:PRO:O	2:Z:454:TYR:OH	2.05	0.73
1:F:157:ILE:CB	2:Z:579:PHE:CD2	2.64	0.73
2:U:483:ASN:O	2:U:555:ARG:CD	2.37	0.73
2:V:526:THR:CG2	2:V:535:LEU:HD21	2.19	0.73
2:W:51:VAL:HG13	2:W:55:GLY:O	1.89	0.73
2:X:481:THR:CG2	2:X:496:ARG:NH2	2.52	0.73
2:Y:391:LYS:HZ3	2:Y:440:ASN:HD21	1.37	0.73
2:U:526:THR:CG2	2:U:535:LEU:HD11	2.19	0.72
2:W:172:SER:C	2:W:174:SER:HA	2.09	0.72
2:W:526:THR:CG2	2:W:535:LEU:HD21	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:51:VAL:HG13	2:X:55:GLY:O	1.90	0.72
2:Y:410:PRO:O	2:Y:413:THR:HG22	1.89	0.72
2:U:409:PRO:O	2:U:454:TYR:OH	2.06	0.72
2:U:496:ARG:O	2:U:496:ARG:HG3	1.89	0.72
2:V:556:LEU:HD23	2:V:560:LEU:CD2	2.18	0.72
2:V:627:PHE:CZ	2:V:640:LEU:HD23	2.23	0.72
2:Y:483:ASN:O	2:Y:555:ARG:CD	2.38	0.72
2:Y:517:LEU:O	2:Y:520:GLU:HB3	1.89	0.72
2:Z:410:PRO:O	2:Z:413:THR:HG22	1.89	0.72
2:U:556:LEU:HD23	2:U:560:LEU:CD2	2.18	0.72
2:V:51:VAL:HG13	2:V:55:GLY:O	1.89	0.72
2:Z:112:VAL:O	2:Z:112:VAL:HG13	1.88	0.72
2:U:517:LEU:HD22	2:U:524:PRO:HB3	1.71	0.72
2:X:526:THR:CG2	2:X:535:LEU:HD21	2.19	0.72
2:Y:526:THR:CG2	2:Y:535:LEU:HD21	2.19	0.72
2:Z:526:THR:CG2	2:Z:535:LEU:HD21	2.19	0.72
2:V:483:ASN:O	2:V:555:ARG:CD	2.37	0.72
2:W:410:PRO:O	2:W:413:THR:HG22	1.89	0.72
2:X:446:THR:CG2	2:X:542:THR:HG21	2.07	0.72
2:Y:409:PRO:HD2	2:Y:451:ASP:O	1.88	0.72
2:Y:526:THR:CG2	2:Y:535:LEU:HD11	2.19	0.72
2:Y:564:ILE:HD11	2:Y:642:PHE:HB2	1.72	0.72
2:Z:564:ILE:HD11	2:Z:642:PHE:HB2	1.71	0.72
2:U:627:PHE:CZ	2:U:640:LEU:HD23	2.23	0.72
2:Z:483:ASN:O	2:Z:555:ARG:CD	2.38	0.72
2:Z:517:LEU:HD22	2:Z:524:PRO:HB3	1.71	0.72
2:V:410:PRO:O	2:V:413:THR:HG22	1.90	0.72
2:Z:514:ARG:HG3	2:Z:535:LEU:CD1	2.20	0.72
2:U:564:ILE:HD11	2:U:642:PHE:HB2	1.71	0.72
2:X:427:VAL:CG1	2:X:516:ARG:HH21	1.93	0.72
2:Y:112:VAL:O	2:Y:112:VAL:HG13	1.88	0.72
2:U:410:PRO:O	2:U:413:THR:HG22	1.89	0.72
2:V:557:PHE:CE1	2:V:629:ILE:HB	2.25	0.72
2:X:110:TYR:HE1	2:X:178:LEU:O	1.68	0.72
2:X:496:ARG:HG3	2:X:496:ARG:O	1.89	0.72
2:Y:413:THR:HG23	2:Y:414:VAL:HG23	1.72	0.72
2:Z:521:ALA:HB1	2:Z:540:THR:HA	1.70	0.72
2:U:590:GLN:O	2:U:593:GLN:HG3	1.90	0.72
2:U:630:GLN:HG3	2:U:636:ASN:O	1.90	0.72
2:X:22:ASN:O	2:X:23:SER:OG	2.04	0.72
2:X:410:PRO:O	2:X:413:THR:HG22	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:564:ILE:HD11	2:X:642:PHE:HB2	1.72	0.72
2:Z:496:ARG:O	2:Z:496:ARG:HG3	1.89	0.72
2:Z:517:LEU:O	2:Z:520:GLU:HB3	1.90	0.72
2:Z:590:GLN:O	2:Z:593:GLN:HG3	1.90	0.72
1:C:157:ILE:CG1	2:W:579:PHE:HB3	2.17	0.71
2:U:112:VAL:O	2:U:112:VAL:HG13	1.88	0.71
2:V:517:LEU:O	2:V:520:GLU:HB3	1.90	0.71
2:V:590:GLN:O	2:V:593:GLN:HG3	1.90	0.71
2:W:499:ILE:HD13	2:W:499:ILE:H	1.55	0.71
2:W:630:GLN:HG3	2:W:636:ASN:O	1.90	0.71
2:X:23:SER:CB	2:X:483:ASN:HB2	2.20	0.71
2:X:36:GLY:HA2	2:X:82:ARG:HD2	1.72	0.71
2:X:483:ASN:O	2:X:555:ARG:CD	2.38	0.71
2:X:630:GLN:HG3	2:X:636:ASN:O	1.90	0.71
2:Y:521:ALA:HB1	2:Y:540:THR:HA	1.70	0.71
2:U:382:SER:HB2	2:U:385:THR:HG22	1.72	0.71
2:V:526:THR:CG2	2:V:535:LEU:HD11	2.19	0.71
2:W:31:GLY:HA3	2:W:64:TYR:CD2	2.25	0.71
2:W:521:ALA:HB1	2:W:540:THR:HA	1.71	0.71
2:W:614:THR:HG21	2:W:619:ASP:O	1.90	0.71
2:X:112:VAL:O	2:X:112:VAL:HG13	1.88	0.71
2:X:499:ILE:HD13	2:X:499:ILE:H	1.56	0.71
2:X:614:THR:HG21	2:X:619:ASP:O	1.90	0.71
2:U:379:ALA:HB1	2:U:454:TYR:OH	1.73	0.71
2:U:557:PHE:CE1	2:U:629:ILE:HB	2.26	0.71
2:X:521:ALA:HB1	2:X:540:THR:HA	1.70	0.71
2:X:557:PHE:CE1	2:X:629:ILE:HB	2.25	0.71
2:V:172:SER:C	2:V:174:SER:HA	2.09	0.71
2:V:630:GLN:HG3	2:V:636:ASN:O	1.90	0.71
2:W:590:GLN:O	2:W:593:GLN:HG3	1.90	0.71
2:X:172:SER:C	2:X:174:SER:HA	2.10	0.71
2:X:394:VAL:HG11	2:X:443:ILE:HD12	1.73	0.71
2:Y:499:ILE:H	2:Y:499:ILE:HD13	1.55	0.71
2:Z:413:THR:HG23	2:Z:414:VAL:HG23	1.72	0.71
2:U:51:VAL:HG13	2:U:55:GLY:O	1.90	0.71
2:V:614:THR:HG21	2:V:619:ASP:O	1.91	0.71
2:W:394:VAL:HG11	2:W:443:ILE:HD12	1.72	0.71
2:X:31:GLY:HA3	2:X:64:TYR:CD2	2.26	0.71
2:X:382:SER:HB2	2:X:385:THR:HG22	1.72	0.71
2:Y:51:VAL:HG13	2:Y:55:GLY:O	1.89	0.71
2:Y:630:GLN:HG3	2:Y:636:ASN:O	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:51:VAL:HG13	2:Z:55:GLY:O	1.89	0.71
2:U:583:SER:O	2:U:586:THR:HG22	1.91	0.71
2:V:23:SER:CB	2:V:483:ASN:HB2	2.21	0.71
2:V:36:GLY:HA2	2:V:82:ARG:HD2	1.72	0.71
2:V:499:ILE:H	2:V:499:ILE:HD13	1.55	0.71
2:V:583:SER:O	2:V:586:THR:HG22	1.91	0.71
2:W:51:VAL:CA	2:W:55:GLY:HA2	2.19	0.71
2:W:517:LEU:O	2:W:520:GLU:HB3	1.89	0.71
2:X:483:ASN:O	2:X:555:ARG:CG	2.39	0.71
2:X:556:LEU:O	2:X:560:LEU:HD23	1.91	0.71
2:Y:114:ASP:OD2	2:Y:175:SER:HB2	1.91	0.71
2:Z:382:SER:HB2	2:Z:385:THR:HG22	1.72	0.71
2:U:36:GLY:HA2	2:U:82:ARG:HD2	1.73	0.71
2:U:394:VAL:HG11	2:U:443:ILE:HD12	1.73	0.71
2:U:517:LEU:O	2:U:520:GLU:HB3	1.89	0.71
2:V:391:LYS:HZ1	2:V:440:ASN:ND2	1.87	0.71
2:W:564:ILE:HD11	2:W:642:PHE:HB2	1.71	0.71
2:Y:394:VAL:HG11	2:Y:443:ILE:HD12	1.73	0.71
2:Y:454:TYR:HE2	2:Y:469:PRO:CA	2.03	0.71
2:Y:496:ARG:HG3	2:Y:496:ARG:O	1.88	0.71
2:Y:614:THR:HG21	2:Y:619:ASP:O	1.91	0.71
2:Z:172:SER:C	2:Z:174:SER:HA	2.09	0.71
2:Z:630:GLN:HG3	2:Z:636:ASN:O	1.90	0.71
2:V:22:ASN:O	2:V:23:SER:OG	2.04	0.71
2:V:394:VAL:HG11	2:V:443:ILE:HD12	1.73	0.71
2:V:413:THR:HG23	2:V:414:VAL:HG23	1.72	0.71
2:W:514:ARG:HG3	2:W:535:LEU:CD1	2.20	0.71
2:U:172:SER:C	2:U:174:SER:HA	2.10	0.71
2:V:564:ILE:HD11	2:V:642:PHE:HB2	1.72	0.71
2:W:521:ALA:HB1	2:W:539:LYS:O	1.91	0.71
2:W:557:PHE:CE1	2:W:629:ILE:HB	2.26	0.71
2:X:526:THR:CG2	2:X:535:LEU:HD11	2.19	0.71
2:U:114:ASP:OD2	2:U:175:SER:HB2	1.91	0.71
2:U:556:LEU:O	2:U:560:LEU:HD23	1.91	0.71
2:V:409:PRO:HD2	2:V:451:ASP:O	1.88	0.71
2:W:483:ASN:O	2:W:555:ARG:CD	2.37	0.71
2:W:526:THR:CG2	2:W:535:LEU:HD11	2.19	0.71
2:W:583:SER:O	2:W:586:THR:HG22	1.91	0.71
2:Y:382:SER:HB2	2:Y:385:THR:HG22	1.71	0.71
2:Y:556:LEU:O	2:Y:560:LEU:HD23	1.91	0.71
2:Y:557:PHE:CE1	2:Y:629:ILE:HB	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:36:GLY:HA2	2:Z:82:ARG:HD2	1.72	0.71
2:Z:394:VAL:HG11	2:Z:443:ILE:HD12	1.73	0.71
2:Z:583:SER:O	2:Z:586:THR:HG22	1.91	0.71
2:W:406:LEU:HD11	2:W:475:ALA:HB2	1.73	0.70
2:W:556:LEU:O	2:W:560:LEU:HD23	1.91	0.70
2:W:576:ASN:HB3	2:W:620:ARG:HH22	1.56	0.70
2:X:406:LEU:HD11	2:X:475:ALA:HB2	1.73	0.70
2:Y:31:GLY:HA3	2:Y:64:TYR:CD2	2.25	0.70
2:Y:36:GLY:HA2	2:Y:82:ARG:HD2	1.72	0.70
2:U:406:LEU:HD11	2:U:475:ALA:HB2	1.73	0.70
2:V:514:ARG:HG3	2:V:535:LEU:CD1	2.20	0.70
2:W:114:ASP:OD2	2:W:175:SER:HB2	1.91	0.70
2:W:413:THR:HG23	2:W:414:VAL:HG23	1.71	0.70
2:Y:23:SER:CB	2:Y:483:ASN:HB2	2.21	0.70
2:Y:521:ALA:HB1	2:Y:539:LYS:O	1.91	0.70
2:Y:559:MET:O	2:Y:562:THR:HG22	1.91	0.70
2:Z:614:THR:HG21	2:Z:619:ASP:O	1.91	0.70
2:U:409:PRO:HD2	2:U:451:ASP:O	1.89	0.70
2:U:614:THR:HG21	2:U:619:ASP:O	1.91	0.70
2:V:521:ALA:HB1	2:V:539:LYS:O	1.91	0.70
2:X:521:ALA:HB1	2:X:539:LYS:O	1.92	0.70
2:X:576:ASN:HB3	2:X:620:ARG:HH22	1.57	0.70
2:Y:590:GLN:O	2:Y:593:GLN:HG3	1.90	0.70
2:Z:547:PRO:O	2:Z:553:VAL:CG2	2.39	0.70
2:Z:556:LEU:HD23	2:Z:560:LEU:CD2	2.18	0.70
2:Z:557:PHE:CE1	2:Z:629:ILE:HB	2.26	0.70
2:U:499:ILE:HD13	2:U:499:ILE:H	1.56	0.70
2:V:382:SER:HB2	2:V:385:THR:HG22	1.71	0.70
2:W:409:PRO:HD2	2:W:451:ASP:O	1.88	0.70
2:W:454:TYR:HD2	2:W:469:PRO:HA	1.53	0.70
2:W:483:ASN:O	2:W:555:ARG:CG	2.39	0.70
2:X:413:THR:HG23	2:X:414:VAL:HG23	1.72	0.70
2:X:450:ILE:CG1	2:X:451:ASP:H	1.89	0.70
2:Y:406:LEU:HD11	2:Y:475:ALA:HB2	1.73	0.70
2:Z:31:GLY:HA3	2:Z:64:TYR:CD2	2.25	0.70
2:Z:499:ILE:HD13	2:Z:499:ILE:H	1.56	0.70
2:Z:556:LEU:O	2:Z:560:LEU:HD23	1.90	0.70
1:E:156:ASP:CB	2:Y:579:PHE:HE1	2.01	0.70
2:U:521:ALA:HB1	2:U:539:LYS:O	1.91	0.70
2:V:31:GLY:HA3	2:V:64:TYR:CD2	2.25	0.70
2:W:391:LYS:HZ1	2:W:440:ASN:ND2	1.88	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:547:PRO:O	2:X:553:VAL:CG2	2.39	0.70
2:Z:47:GLU:HG3	2:Z:69:MET:HG3	1.73	0.70
2:U:547:PRO:O	2:U:553:VAL:CG2	2.39	0.70
2:U:576:ASN:HB3	2:U:620:ARG:HH22	1.56	0.70
2:V:51:VAL:CA	2:V:55:GLY:HA2	2.19	0.70
2:V:556:LEU:O	2:V:560:LEU:HD23	1.91	0.70
2:X:517:LEU:O	2:X:520:GLU:HB3	1.89	0.70
2:X:590:GLN:O	2:X:593:GLN:HG3	1.90	0.70
2:Z:114:ASP:OD2	2:Z:175:SER:HB2	1.91	0.70
2:V:406:LEU:HD11	2:V:475:ALA:HB2	1.74	0.70
2:V:483:ASN:O	2:V:555:ARG:CG	2.39	0.70
2:W:36:GLY:HA2	2:W:82:ARG:HD2	1.72	0.70
2:X:454:TYR:HE2	2:X:469:PRO:CA	2.03	0.70
2:Y:576:ASN:HB3	2:Y:620:ARG:HH22	1.56	0.70
2:Y:583:SER:O	2:Y:586:THR:HG22	1.91	0.70
2:Z:521:ALA:HB1	2:Z:539:LYS:O	1.91	0.70
2:U:483:ASN:O	2:U:555:ARG:CG	2.39	0.70
2:X:559:MET:O	2:X:562:THR:HG22	1.92	0.70
2:Y:547:PRO:O	2:Y:553:VAL:CG2	2.39	0.70
2:Z:406:LEU:HD11	2:Z:475:ALA:HB2	1.73	0.70
2:Z:454:TYR:HE2	2:Z:469:PRO:CA	2.04	0.70
2:Z:514:ARG:CG	2:Z:535:LEU:HD13	2.22	0.70
1:F:124:THR:HG21	1:F:130:MET:HG2	1.73	0.70
2:U:47:GLU:HG3	2:U:69:MET:HG3	1.74	0.70
2:U:413:THR:HG23	2:U:414:VAL:HG23	1.72	0.70
2:V:391:LYS:HZ3	2:V:440:ASN:HD21	1.39	0.70
2:W:382:SER:HB2	2:W:385:THR:HG22	1.72	0.70
2:Z:559:MET:O	2:Z:562:THR:HG22	1.91	0.70
2:U:23:SER:CB	2:U:483:ASN:HB2	2.21	0.70
2:W:23:SER:CB	2:W:483:ASN:HB2	2.20	0.70
2:X:114:ASP:OD2	2:X:175:SER:HB2	1.91	0.70
2:Z:483:ASN:O	2:Z:555:ARG:CG	2.39	0.70
2:U:454:TYR:HE2	2:U:469:PRO:CA	2.03	0.69
2:V:454:TYR:HE2	2:V:469:PRO:CA	2.03	0.69
2:W:547:PRO:O	2:W:553:VAL:CG2	2.38	0.69
2:W:559:MET:O	2:W:562:THR:HG22	1.92	0.69
2:Z:409:PRO:HD2	2:Z:451:ASP:O	1.88	0.69
2:Z:524:PRO:CG	2:Z:535:LEU:HD12	2.22	0.69
2:U:524:PRO:CG	2:U:535:LEU:HD12	2.22	0.69
2:U:31:GLY:HA3	2:U:64:TYR:CD2	2.26	0.69
2:V:547:PRO:O	2:V:553:VAL:CG2	2.39	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:427:VAL:CG1	2:W:516:ARG:HH21	1.94	0.69
2:X:23:SER:HB3	2:X:483:ASN:CB	2.22	0.69
2:Y:514:ARG:CG	2:Y:535:LEU:HD13	2.22	0.69
2:V:559:MET:O	2:V:562:THR:HG22	1.92	0.69
2:V:576:ASN:HB3	2:V:620:ARG:HH22	1.56	0.69
2:X:583:SER:O	2:X:586:THR:HG22	1.91	0.69
2:Y:483:ASN:O	2:Y:555:ARG:CG	2.39	0.69
2:Z:576:ASN:HB3	2:Z:620:ARG:HH22	1.56	0.69
2:U:55:GLY:O	2:U:65:PHE:CE1	2.46	0.69
2:U:228:GLY:CA	2:U:345:SER:HB3	2.23	0.69
2:U:559:MET:O	2:U:562:THR:HG22	1.91	0.69
2:V:427:VAL:CG1	2:V:516:ARG:HH21	1.93	0.69
2:W:524:PRO:CG	2:W:535:LEU:HD12	2.22	0.69
2:W:564:ILE:HG13	2:W:565:GLY:N	2.07	0.69
2:Z:23:SER:CB	2:Z:483:ASN:HB2	2.21	0.69
2:V:215:LYS:HE3	2:V:329:ASN:HD21	1.58	0.69
2:X:47:GLU:HG3	2:X:69:MET:HG3	1.73	0.69
2:X:55:GLY:O	2:X:65:PHE:CE1	2.46	0.69
2:X:391:LYS:HZ1	2:X:440:ASN:ND2	1.90	0.69
2:Y:289:ILE:H	2:Y:289:ILE:HD12	1.58	0.69
2:V:55:GLY:O	2:V:65:PHE:CE1	2.46	0.69
2:V:524:PRO:CG	2:V:535:LEU:HD12	2.22	0.69
2:W:23:SER:HB3	2:W:483:ASN:CB	2.22	0.69
2:W:454:TYR:HE2	2:W:469:PRO:CA	2.04	0.69
2:W:521:ALA:CB	2:W:540:THR:HA	2.22	0.69
2:X:289:ILE:HD12	2:X:289:ILE:H	1.58	0.69
2:X:521:ALA:CB	2:X:540:THR:HA	2.23	0.69
2:X:622:GLU:OE1	2:X:645:THR:HA	1.93	0.69
2:Y:391:LYS:HZ1	2:Y:440:ASN:ND2	1.89	0.69
2:Y:524:PRO:CG	2:Y:535:LEU:HD12	2.22	0.69
2:Z:521:ALA:CB	2:Z:540:THR:HA	2.23	0.69
2:U:521:ALA:CB	2:U:540:THR:HA	2.23	0.69
2:U:561:LYS:HB3	2:U:640:LEU:CD2	2.23	0.69
2:V:521:ALA:CB	2:V:540:THR:HA	2.23	0.69
2:W:517:LEU:O	2:W:522:ILE:HG22	1.93	0.69
2:X:455:LYS:HG3	2:X:502:VAL:HG22	1.75	0.69
2:Y:51:VAL:CA	2:Y:55:GLY:HA2	2.19	0.69
2:Y:622:GLU:OE1	2:Y:645:THR:HA	1.93	0.69
2:U:455:LYS:HG3	2:U:502:VAL:HG22	1.75	0.69
2:U:614:THR:CG2	2:U:620:ARG:HA	2.23	0.69
2:W:455:LYS:HG3	2:W:502:VAL:HG22	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y:47:GLU:HG3	2:Y:69:MET:HG3	1.74	0.69
2:Z:561:LYS:HB3	2:Z:640:LEU:CD2	2.23	0.69
2:V:561:LYS:HB3	2:V:640:LEU:CD2	2.23	0.68
2:W:215:LYS:HE3	2:W:329:ASN:HD21	1.58	0.68
2:W:561:LYS:HB3	2:W:640:LEU:CD2	2.23	0.68
2:X:517:LEU:O	2:X:522:ILE:HG22	1.93	0.68
2:X:524:PRO:CG	2:X:535:LEU:HD12	2.22	0.68
2:Y:455:LYS:HG3	2:Y:502:VAL:HG22	1.75	0.68
2:Z:455:LYS:HG3	2:Z:502:VAL:HG22	1.75	0.68
2:Z:517:LEU:O	2:Z:522:ILE:HG22	1.93	0.68
2:V:517:LEU:O	2:V:522:ILE:HG22	1.93	0.68
2:X:564:ILE:HG13	2:X:565:GLY:N	2.08	0.68
2:Z:55:GLY:O	2:Z:65:PHE:CE1	2.46	0.68
2:Z:517:LEU:HD12	2:Z:518:TYR:H	1.57	0.68
2:U:514:ARG:HG3	2:U:535:LEU:CD1	2.21	0.68
2:V:454:TYR:HD2	2:V:469:PRO:HA	1.53	0.68
2:Y:23:SER:HB3	2:Y:483:ASN:CB	2.22	0.68
2:Z:622:GLU:OE1	2:Z:645:THR:HA	1.93	0.68
1:D:124:THR:HG21	1:D:130:MET:HG2	1.75	0.68
2:V:47:GLU:HG3	2:V:69:MET:HG3	1.74	0.68
2:W:596:LYS:O	2:W:596:LYS:HD3	1.94	0.68
2:W:622:GLU:OE1	2:W:645:THR:HA	1.93	0.68
2:X:578:ALA:O	2:X:581:ARG:HB3	1.94	0.68
2:U:427:VAL:CG1	2:U:516:ARG:HH21	1.94	0.68
2:U:598:LEU:O	2:U:598:LEU:HD23	1.94	0.68
2:Z:598:LEU:O	2:Z:598:LEU:HD23	1.93	0.68
1:B:108:GLN:HB3	1:B:200:PRO:HD2	1.75	0.68
2:V:596:LYS:O	2:V:596:LYS:HD3	1.94	0.68
2:X:514:ARG:HG3	2:X:535:LEU:CD1	2.21	0.68
2:U:51:VAL:CA	2:U:55:GLY:HA2	2.20	0.68
2:U:575:LEU:O	2:U:580:THR:HG21	1.94	0.68
2:V:114:ASP:OD2	2:V:175:SER:HB2	1.92	0.68
2:W:55:GLY:O	2:W:65:PHE:CE1	2.46	0.68
2:W:578:ALA:O	2:W:581:ARG:HB3	1.94	0.68
2:Y:521:ALA:CB	2:Y:540:THR:HA	2.23	0.68
2:Y:575:LEU:O	2:Y:580:THR:HG21	1.93	0.68
2:Z:289:ILE:H	2:Z:289:ILE:HD12	1.57	0.68
2:Z:578:ALA:O	2:Z:581:ARG:HB3	1.94	0.68
2:Z:596:LYS:O	2:Z:596:LYS:HD3	1.94	0.68
2:U:391:LYS:NZ	2:U:440:ASN:HD21	1.92	0.68
2:U:596:LYS:O	2:U:596:LYS:HD3	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:523:ASN:HD21	2:V:538:ASP:CB	2.06	0.68
2:W:614:THR:CG2	2:W:620:ARG:HA	2.23	0.68
2:X:523:ASN:HD21	2:X:538:ASP:CB	2.07	0.68
2:Y:55:GLY:O	2:Y:65:PHE:CE1	2.46	0.68
2:Z:450:ILE:CG1	2:Z:451:ASP:N	2.53	0.68
2:Z:575:LEU:O	2:Z:580:THR:HG21	1.94	0.68
2:V:622:GLU:OE1	2:V:645:THR:HA	1.93	0.68
2:X:427:VAL:O	2:X:431:THR:HG22	1.94	0.68
2:X:522:ILE:O	2:X:524:PRO:HD3	1.94	0.68
2:Z:427:VAL:O	2:Z:431:THR:HG22	1.94	0.68
2:U:289:ILE:HD12	2:U:289:ILE:H	1.58	0.68
2:U:454:TYR:HD2	2:U:469:PRO:HA	1.53	0.68
2:V:228:GLY:CA	2:V:345:SER:HB3	2.24	0.68
2:V:289:ILE:H	2:V:289:ILE:HD12	1.57	0.68
2:V:455:LYS:HG3	2:V:502:VAL:HG22	1.76	0.68
2:V:526:THR:HG21	2:V:535:LEU:HD21	1.76	0.68
2:W:47:GLU:HG3	2:W:69:MET:HG3	1.73	0.68
2:W:289:ILE:H	2:W:289:ILE:HD12	1.58	0.68
2:W:408:SER:HB2	2:W:471:ALA:HB2	1.76	0.68
2:W:522:ILE:O	2:W:524:PRO:HD3	1.94	0.68
2:X:514:ARG:CG	2:X:535:LEU:HD13	2.23	0.68
2:X:596:LYS:O	2:X:596:LYS:HD3	1.94	0.68
2:Y:427:VAL:O	2:Y:431:THR:HG22	1.94	0.68
2:Y:523:ASN:HD21	2:Y:538:ASP:CB	2.07	0.68
2:Y:561:LYS:HB3	2:Y:640:LEU:CD2	2.23	0.68
2:Z:215:LYS:HE3	2:Z:329:ASN:HD21	1.58	0.68
2:V:614:THR:CG2	2:V:620:ARG:HA	2.24	0.67
2:W:55:GLY:O	2:W:65:PHE:HE1	1.78	0.67
2:X:215:LYS:HE3	2:X:329:ASN:HD21	1.58	0.67
2:X:408:SER:HB2	2:X:471:ALA:HB2	1.76	0.67
2:X:409:PRO:C	2:X:454:TYR:HE1	1.97	0.67
2:U:427:VAL:CG1	2:U:516:ARG:NH2	2.47	0.67
2:U:500:LEU:HB2	2:U:501:ASN:OD1	1.94	0.67
2:U:517:LEU:O	2:U:522:ILE:HG22	1.93	0.67
2:U:523:ASN:HD21	2:U:538:ASP:CB	2.07	0.67
2:V:171:ILE:HG22	2:V:172:SER:N	2.09	0.67
2:Y:379:ALA:HB1	2:Y:454:TYR:OH	1.73	0.67
2:Z:23:SER:HB3	2:Z:483:ASN:CB	2.22	0.67
2:Z:391:LYS:HZ3	2:Z:440:ASN:HD21	1.41	0.67
2:U:408:SER:HB2	2:U:471:ALA:HB2	1.76	0.67
2:U:517:LEU:HD12	2:U:518:TYR:H	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:622:GLU:OE1	2:U:645:THR:HA	1.93	0.67
2:V:578:ALA:O	2:V:581:ARG:HB3	1.94	0.67
2:W:96:ALA:HB2	2:W:191:SER:HA	1.77	0.67
2:W:514:ARG:CG	2:W:535:LEU:HD13	2.22	0.67
2:W:598:LEU:O	2:W:598:LEU:HD23	1.94	0.67
2:X:561:LYS:HB3	2:X:640:LEU:CD2	2.23	0.67
2:Y:228:GLY:CA	2:Y:345:SER:HB3	2.24	0.67
2:Y:522:ILE:O	2:Y:524:PRO:HD3	1.94	0.67
2:Y:564:ILE:HG13	2:Y:565:GLY:N	2.08	0.67
2:Z:427:VAL:CG1	2:Z:516:ARG:HH21	1.94	0.67
2:Z:564:ILE:HG13	2:Z:565:GLY:N	2.07	0.67
2:Z:614:THR:CG2	2:Z:620:ARG:HA	2.24	0.67
2:U:564:ILE:HG13	2:U:565:GLY:N	2.08	0.67
2:V:408:SER:HB2	2:V:471:ALA:HB2	1.77	0.67
2:V:598:LEU:HD23	2:V:598:LEU:O	1.94	0.67
2:W:500:LEU:HB2	2:W:501:ASN:OD1	1.95	0.67
2:Y:578:ALA:O	2:Y:581:ARG:HB3	1.94	0.67
2:Y:596:LYS:O	2:Y:596:LYS:HD3	1.94	0.67
2:Y:614:THR:CG2	2:Y:620:ARG:HA	2.23	0.67
2:Z:454:TYR:HD2	2:Z:469:PRO:HA	1.53	0.67
1:B:157:ILE:HD12	2:V:579:PHE:CB	2.04	0.67
2:W:517:LEU:HD12	2:W:518:TYR:H	1.58	0.67
2:W:523:ASN:HD21	2:W:538:ASP:CB	2.07	0.67
2:X:304:ILE:HG13	2:X:305:TYR:CE2	2.30	0.67
2:X:614:THR:CG2	2:X:620:ARG:HA	2.24	0.67
2:Y:215:LYS:HE3	2:Y:329:ASN:HD21	1.60	0.67
2:Z:500:LEU:HB2	2:Z:501:ASN:OD1	1.95	0.67
1:C:157:ILE:CG1	2:W:579:PHE:CG	2.77	0.67
1:D:156:ASP:HB3	2:X:579:PHE:CD1	2.30	0.67
2:V:96:ALA:HB2	2:V:191:SER:HA	1.77	0.67
2:V:500:LEU:HB2	2:V:501:ASN:OD1	1.94	0.67
2:V:575:LEU:O	2:V:580:THR:HG21	1.94	0.67
2:W:304:ILE:HG13	2:W:305:TYR:CE2	2.30	0.67
2:W:575:LEU:O	2:W:580:THR:HG21	1.94	0.67
2:Y:55:GLY:O	2:Y:65:PHE:HE1	1.78	0.67
2:Y:517:LEU:O	2:Y:522:ILE:HG22	1.93	0.67
2:Z:171:ILE:HG22	2:Z:172:SER:N	2.09	0.67
2:U:427:VAL:O	2:U:431:THR:HG22	1.94	0.67
2:U:578:ALA:O	2:U:581:ARG:HB3	1.94	0.67
2:V:564:ILE:HG13	2:V:565:GLY:N	2.08	0.67
2:Y:351:THR:HG23	2:Y:354:ASP:H	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:351:THR:HG23	2:Z:354:ASP:H	1.60	0.67
1:F:19:ASP:HA	1:F:22:SER:HB2	1.77	0.67
2:U:351:THR:HG23	2:U:354:ASP:H	1.60	0.67
2:U:514:ARG:NE	2:U:535:LEU:HD22	2.10	0.67
2:X:351:THR:HG23	2:X:354:ASP:H	1.60	0.67
2:X:575:LEU:O	2:X:580:THR:HG21	1.94	0.67
2:Z:304:ILE:HG13	2:Z:305:TYR:CE2	2.30	0.67
2:W:171:ILE:HG22	2:W:172:SER:N	2.09	0.67
2:W:427:VAL:O	2:W:431:THR:HG22	1.94	0.67
2:W:512:ALA:HA	2:W:515:ASP:OD2	1.95	0.67
2:Y:514:ARG:NE	2:Y:535:LEU:HD22	2.10	0.67
2:U:304:ILE:HG13	2:U:305:TYR:CE2	2.30	0.67
2:U:391:LYS:HZ3	2:U:440:ASN:HD21	1.41	0.67
2:U:526:THR:HG21	2:U:535:LEU:HD21	1.77	0.67
2:V:514:ARG:NE	2:V:535:LEU:HD22	2.10	0.67
2:V:522:ILE:O	2:V:524:PRO:HD3	1.94	0.67
2:W:379:ALA:CB	2:W:454:TYR:CE2	2.78	0.67
2:X:409:PRO:HD2	2:X:451:ASP:O	1.87	0.67
2:Z:523:ASN:HD21	2:Z:538:ASP:CB	2.07	0.67
2:U:171:ILE:HG22	2:U:172:SER:N	2.09	0.66
2:W:228:GLY:CA	2:W:345:SER:HB3	2.23	0.66
2:X:171:ILE:HG22	2:X:172:SER:N	2.09	0.66
2:X:449:ALA:CA	2:X:540:THR:HG23	2.25	0.66
2:Y:512:ALA:HA	2:Y:515:ASP:OD2	1.95	0.66
2:Y:514:ARG:HG3	2:Y:535:LEU:CD1	2.21	0.66
2:U:96:ALA:HB2	2:U:191:SER:HA	1.77	0.66
2:Z:391:LYS:NZ	2:Z:440:ASN:HD21	1.91	0.66
2:Z:522:ILE:O	2:Z:524:PRO:HD3	1.94	0.66
2:U:215:LYS:HE3	2:U:329:ASN:HD21	1.59	0.66
2:V:427:VAL:CG1	2:V:516:ARG:NH2	2.47	0.66
2:X:96:ALA:HB2	2:X:191:SER:HA	1.77	0.66
2:Y:171:ILE:HG22	2:Y:172:SER:N	2.09	0.66
2:Y:598:LEU:O	2:Y:598:LEU:HD23	1.94	0.66
2:V:304:ILE:HG13	2:V:305:TYR:CE2	2.30	0.66
2:V:512:ALA:HA	2:V:515:ASP:OD2	1.95	0.66
2:W:351:THR:HG23	2:W:354:ASP:H	1.60	0.66
2:X:500:LEU:HB2	2:X:501:ASN:OD1	1.95	0.66
2:U:379:ALA:CB	2:U:454:TYR:CE2	2.78	0.66
2:V:351:THR:HG23	2:V:354:ASP:H	1.61	0.66
2:V:514:ARG:CG	2:V:535:LEU:HD13	2.22	0.66
2:W:449:ALA:CA	2:W:540:THR:HG23	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:526:THR:HG21	2:W:535:LEU:HD21	1.77	0.66
2:Y:500:LEU:HB2	2:Y:501:ASN:OD1	1.94	0.66
2:Z:379:ALA:CB	2:Z:454:TYR:CE2	2.78	0.66
2:Z:449:ALA:CA	2:Z:540:THR:HG23	2.25	0.66
2:Z:517:LEU:HD13	2:Z:524:PRO:HG3	1.78	0.66
2:V:379:ALA:CB	2:V:454:TYR:CE2	2.79	0.66
2:V:427:VAL:O	2:V:431:THR:HG22	1.94	0.66
2:X:55:GLY:O	2:X:65:PHE:HE1	1.77	0.66
2:X:514:ARG:NE	2:X:535:LEU:HD22	2.10	0.66
2:X:517:LEU:HD12	2:X:518:TYR:H	1.57	0.66
2:X:526:THR:HG21	2:X:535:LEU:HD21	1.77	0.66
2:Z:512:ALA:HA	2:Z:515:ASP:OD2	1.95	0.66
2:Z:514:ARG:NE	2:Z:535:LEU:HD22	2.10	0.66
2:U:522:ILE:O	2:U:524:PRO:HD3	1.94	0.66
2:V:391:LYS:NZ	2:V:440:ASN:HD21	1.92	0.66
2:Y:427:VAL:CG1	2:Y:516:ARG:NH2	2.47	0.66
2:Z:408:SER:HB2	2:Z:471:ALA:HB2	1.77	0.66
1:F:109:TYR:HB3	1:F:161:ARG:HH22	1.60	0.66
2:W:544:VAL:HG12	2:W:545:PRO:N	2.10	0.66
2:Y:408:SER:HB2	2:Y:471:ALA:HB2	1.77	0.66
2:Y:427:VAL:CG1	2:Y:516:ARG:HH21	1.94	0.66
2:X:228:GLY:CA	2:X:345:SER:HB3	2.23	0.66
2:X:544:VAL:HG12	2:X:545:PRO:N	2.11	0.66
2:Z:51:VAL:CA	2:Z:55:GLY:HA2	2.19	0.66
2:W:121:VAL:HG22	2:W:166:ASN:HB3	1.78	0.66
2:X:379:ALA:CB	2:X:454:TYR:CE2	2.79	0.66
2:Y:526:THR:HG21	2:Y:535:LEU:HD21	1.77	0.66
2:Z:96:ALA:HB2	2:Z:191:SER:HA	1.77	0.66
2:W:514:ARG:NE	2:W:535:LEU:HD22	2.09	0.65
2:X:121:VAL:HG22	2:X:166:ASN:HB3	1.79	0.65
2:X:512:ALA:HA	2:X:515:ASP:OD2	1.95	0.65
2:X:598:LEU:HD23	2:X:598:LEU:O	1.95	0.65
2:Y:379:ALA:CB	2:Y:454:TYR:CE2	2.78	0.65
2:Y:544:VAL:HG12	2:Y:545:PRO:N	2.11	0.65
2:V:55:GLY:O	2:V:65:PHE:HE1	1.78	0.65
2:Y:121:VAL:HG22	2:Y:166:ASN:HB3	1.78	0.65
1:A:124:THR:HG21	1:A:130:MET:HG2	1.77	0.65
1:D:157:ILE:HB	2:X:579:PHE:CD2	2.31	0.65
2:U:449:ALA:CA	2:U:540:THR:HG23	2.25	0.65
2:Y:96:ALA:HB2	2:Y:191:SER:HA	1.77	0.65
2:Y:304:ILE:HG13	2:Y:305:TYR:CE2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y:449:ALA:CA	2:Y:540:THR:HG23	2.25	0.65
2:U:55:GLY:O	2:U:65:PHE:HE1	1.78	0.65
2:V:517:LEU:HD12	2:V:518:TYR:H	1.58	0.65
2:Y:505:LEU:HD13	2:Y:525:VAL:CG1	2.26	0.65
2:Z:544:VAL:HG12	2:Z:545:PRO:N	2.10	0.65
2:V:449:ALA:CA	2:V:540:THR:HG23	2.25	0.65
2:X:427:VAL:CG1	2:X:516:ARG:NH2	2.47	0.65
2:U:512:ALA:HA	2:U:515:ASP:OD2	1.95	0.65
2:V:603:GLU:HG2	2:V:637:TYR:OH	1.97	0.65
2:W:23:SER:HG	2:W:483:ASN:HB3	1.61	0.65
2:X:517:LEU:HD11	2:X:524:PRO:HG3	1.79	0.65
2:Y:427:VAL:HG21	2:Y:516:ARG:CZ	2.27	0.65
2:Y:517:LEU:HD13	2:Y:524:PRO:HG3	1.78	0.65
2:U:427:VAL:HG21	2:U:516:ARG:CZ	2.27	0.65
2:X:51:VAL:CA	2:X:55:GLY:HA2	2.19	0.65
2:Z:526:THR:HG21	2:Z:535:LEU:HD21	1.77	0.65
2:Y:454:TYR:HD2	2:Y:469:PRO:HA	1.54	0.65
2:Y:526:THR:HG23	2:Y:535:LEU:CG	2.28	0.65
2:Z:427:VAL:HG21	2:Z:516:ARG:CZ	2.27	0.65
2:V:630:GLN:HE21	2:V:636:ASN:N	1.95	0.64
2:W:630:GLN:HE21	2:W:636:ASN:N	1.95	0.64
1:A:156:ASP:CB	2:U:579:PHE:CD1	2.63	0.64
2:Z:526:THR:HG23	2:Z:535:LEU:CG	2.27	0.64
2:Z:630:GLN:HE21	2:Z:636:ASN:N	1.95	0.64
2:V:121:VAL:HG22	2:V:166:ASN:HB3	1.78	0.64
2:W:391:LYS:NZ	2:W:440:ASN:HD21	1.91	0.64
2:W:517:LEU:HD11	2:W:524:PRO:HG3	1.79	0.64
2:Y:100:GLU:HG3	2:Y:186:LYS:H	1.62	0.64
2:Z:55:GLY:O	2:Z:65:PHE:HE1	1.78	0.64
2:Z:121:VAL:HG22	2:Z:166:ASN:HB3	1.78	0.64
2:W:514:ARG:HG2	2:W:518:TYR:HE1	1.63	0.64
2:W:561:LYS:HB3	2:W:640:LEU:HD21	1.80	0.64
2:X:526:THR:HG23	2:X:535:LEU:CG	2.28	0.64
2:Y:517:LEU:HD12	2:Y:518:TYR:H	1.58	0.64
1:A:108:GLN:HB3	1:A:200:PRO:HD2	1.80	0.64
1:C:69:GLU:OE2	1:C:126:TYR:OH	2.14	0.64
2:V:526:THR:HG23	2:V:535:LEU:CG	2.27	0.64
2:W:514:ARG:HG2	2:W:518:TYR:CE1	2.33	0.64
2:V:514:ARG:HG2	2:V:518:TYR:CE1	2.33	0.64
2:W:427:VAL:CG1	2:W:516:ARG:NH2	2.47	0.64
2:W:526:THR:HG23	2:W:535:LEU:CG	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:603:GLU:HG2	2:W:637:TYR:OH	1.97	0.64
2:Z:66:MET:HG2	2:Z:468:VAL:HG11	1.80	0.64
2:Y:517:LEU:HD11	2:Y:524:PRO:HG3	1.80	0.64
2:Y:603:GLU:HG2	2:Y:637:TYR:OH	1.97	0.64
1:B:157:ILE:N	2:V:579:PHE:CE1	2.65	0.64
2:V:544:VAL:HG12	2:V:545:PRO:N	2.11	0.64
2:V:561:LYS:HB3	2:V:640:LEU:HD21	1.80	0.64
2:W:409:PRO:C	2:W:454:TYR:HE1	1.98	0.64
2:X:561:LYS:HB3	2:X:640:LEU:HD21	1.80	0.64
2:X:603:GLU:HG2	2:X:637:TYR:OH	1.98	0.64
2:Y:557:PHE:CE2	2:Y:631:PRO:HD3	2.33	0.64
2:Z:603:GLU:HG2	2:Z:637:TYR:OH	1.98	0.64
1:C:156:ASP:CB	2:W:579:PHE:HE1	2.07	0.64
2:U:121:VAL:HG22	2:U:166:ASN:HB3	1.78	0.64
2:U:514:ARG:CG	2:U:535:LEU:HD13	2.23	0.64
2:U:544:VAL:HG12	2:U:545:PRO:N	2.11	0.64
2:W:450:ILE:N	2:W:540:THR:HG23	2.13	0.64
2:Y:499:ILE:HG13	2:Y:502:VAL:HG21	1.80	0.64
2:Y:514:ARG:HG2	2:Y:518:TYR:CE1	2.33	0.64
2:Z:561:LYS:HB3	2:Z:640:LEU:HD21	1.80	0.64
2:W:100:GLU:HG3	2:W:186:LYS:H	1.63	0.64
2:W:215:LYS:HE3	2:W:329:ASN:ND2	2.13	0.64
2:W:427:VAL:HG21	2:W:516:ARG:CZ	2.28	0.64
2:Z:228:GLY:CA	2:Z:345:SER:HB3	2.23	0.64
2:Z:505:LEU:HD13	2:Z:525:VAL:CG1	2.27	0.64
2:U:100:GLU:HG3	2:U:186:LYS:H	1.63	0.63
2:U:517:LEU:HD13	2:U:524:PRO:HG3	1.78	0.63
2:X:215:LYS:HE3	2:X:329:ASN:ND2	2.13	0.63
2:X:517:LEU:HD13	2:X:524:PRO:HG3	1.78	0.63
2:X:630:GLN:HE21	2:X:636:ASN:N	1.95	0.63
2:Y:66:MET:HG2	2:Y:468:VAL:HG11	1.80	0.63
2:Y:450:ILE:N	2:Y:540:THR:HG23	2.13	0.63
2:U:450:ILE:N	2:U:540:THR:HG23	2.14	0.63
2:U:526:THR:HG23	2:U:535:LEU:CG	2.28	0.63
2:V:100:GLU:HG3	2:V:186:LYS:H	1.63	0.63
2:V:517:LEU:HD11	2:V:524:PRO:HG3	1.80	0.63
2:W:517:LEU:HD13	2:W:524:PRO:HG3	1.78	0.63
2:X:379:ALA:HB1	2:X:454:TYR:OH	1.73	0.63
2:X:505:LEU:HD13	2:X:525:VAL:CG1	2.27	0.63
2:Z:100:GLU:HG3	2:Z:186:LYS:H	1.63	0.63
2:Z:215:LYS:HE3	2:Z:329:ASN:ND2	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:66:MET:HG2	2:V:468:VAL:HG11	1.80	0.63
2:V:427:VAL:HG21	2:V:516:ARG:CZ	2.28	0.63
2:X:100:GLU:HG3	2:X:186:LYS:H	1.63	0.63
2:X:450:ILE:N	2:X:540:THR:HG23	2.13	0.63
2:X:547:PRO:C	2:X:553:VAL:HG21	2.19	0.63
2:Z:499:ILE:HG13	2:Z:502:VAL:HG21	1.81	0.63
2:Z:557:PHE:CE2	2:Z:631:PRO:HD3	2.34	0.63
2:U:23:SER:HB3	2:U:483:ASN:CB	2.23	0.63
2:V:215:LYS:HE3	2:V:329:ASN:ND2	2.13	0.63
2:X:427:VAL:HG21	2:X:516:ARG:CZ	2.28	0.63
2:X:514:ARG:HG2	2:X:518:TYR:CE1	2.34	0.63
2:Y:547:PRO:C	2:Y:553:VAL:HG21	2.19	0.63
2:Z:514:ARG:HG2	2:Z:518:TYR:CE1	2.33	0.63
2:U:66:MET:HG2	2:U:468:VAL:HG11	1.80	0.63
2:U:557:PHE:CE2	2:U:631:PRO:HD3	2.33	0.63
2:U:630:GLN:HE21	2:U:636:ASN:N	1.95	0.63
2:Z:450:ILE:N	2:Z:540:THR:HG23	2.13	0.63
2:Z:517:LEU:HD11	2:Z:524:PRO:HG3	1.80	0.63
2:U:561:LYS:HB3	2:U:640:LEU:HD21	1.80	0.63
2:V:547:PRO:C	2:V:553:VAL:HG21	2.19	0.63
2:X:628:TYR:CE2	2:X:639:THR:HG22	2.34	0.63
2:Z:561:LYS:O	2:Z:564:ILE:HG12	1.99	0.63
2:U:603:GLU:HG2	2:U:637:TYR:OH	1.98	0.63
2:W:66:MET:HG2	2:W:468:VAL:HG11	1.79	0.63
2:W:404:LEU:CD2	2:W:554:ARG:NH1	2.60	0.63
2:W:547:PRO:C	2:W:553:VAL:HG21	2.19	0.63
2:W:561:LYS:O	2:W:564:ILE:HG12	1.99	0.63
2:X:499:ILE:HG13	2:X:502:VAL:HG21	1.81	0.63
2:Z:547:PRO:C	2:Z:553:VAL:HG21	2.19	0.63
1:E:108:GLN:HB3	1:E:200:PRO:HD2	1.81	0.63
1:E:124:THR:HG21	1:E:130:MET:HG2	1.81	0.63
2:Y:628:TYR:CE2	2:Y:639:THR:HG22	2.34	0.63
1:A:156:ASP:HB3	2:U:579:PHE:HE1	0.83	0.62
2:X:391:LYS:NZ	2:X:440:ASN:HD21	1.91	0.62
2:Y:630:GLN:HE21	2:Y:636:ASN:N	1.95	0.62
2:V:450:ILE:N	2:V:540:THR:HG23	2.13	0.62
2:V:499:ILE:HG13	2:V:502:VAL:HG21	1.80	0.62
2:V:514:ARG:HG2	2:V:518:TYR:HE1	1.63	0.62
2:V:517:LEU:HD13	2:V:524:PRO:HG3	1.79	0.62
2:U:514:ARG:HG2	2:U:518:TYR:CE1	2.34	0.62
2:V:557:PHE:CE2	2:V:631:PRO:HD3	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:557:PHE:CE2	2:W:631:PRO:HD3	2.33	0.62
2:X:561:LYS:O	2:X:564:ILE:HG12	1.98	0.62
2:U:499:ILE:HG13	2:U:502:VAL:HG21	1.81	0.62
2:V:23:SER:HB3	2:V:483:ASN:CB	2.22	0.62
2:X:514:ARG:HG2	2:X:518:TYR:HE1	1.64	0.62
2:U:215:LYS:HE3	2:U:329:ASN:ND2	2.14	0.62
2:X:557:PHE:CE2	2:X:631:PRO:HD3	2.34	0.62
2:Y:514:ARG:O	2:Y:518:TYR:HD1	1.82	0.62
2:Z:213:ASN:HD22	2:Z:213:ASN:N	1.97	0.62
2:Z:628:TYR:CE2	2:Z:639:THR:HG22	2.34	0.62
2:U:407:CYS:O	2:U:450:ILE:HA	2.00	0.62
2:U:547:PRO:C	2:U:553:VAL:HG21	2.19	0.62
2:U:561:LYS:O	2:U:564:ILE:HG12	1.99	0.62
2:Y:561:LYS:HB3	2:Y:640:LEU:HD21	1.80	0.62
2:Z:107:GLY:HA3	2:Z:110:TYR:CE1	2.35	0.62
2:W:555:ARG:O	2:W:559:MET:HE2	2.00	0.62
2:W:628:TYR:CE2	2:W:639:THR:HG22	2.34	0.62
2:X:66:MET:HG2	2:X:468:VAL:HG11	1.80	0.62
2:Y:107:GLY:HA3	2:Y:110:TYR:HE1	1.65	0.62
2:Y:514:ARG:HG2	2:Y:518:TYR:HE1	1.63	0.62
2:Z:514:ARG:O	2:Z:517:LEU:HG	2.00	0.62
2:U:514:ARG:HG2	2:U:518:TYR:HE1	1.65	0.62
2:U:514:ARG:O	2:U:518:TYR:HD1	1.82	0.62
2:W:514:ARG:O	2:W:517:LEU:HG	2.00	0.62
2:Y:561:LYS:O	2:Y:564:ILE:HG12	1.99	0.62
2:U:107:GLY:HA3	2:U:110:TYR:CE1	2.34	0.62
2:X:407:CYS:O	2:X:450:ILE:HA	2.00	0.62
2:Y:107:GLY:HA3	2:Y:110:TYR:CE1	2.34	0.62
2:U:213:ASN:HD22	2:U:213:ASN:N	1.98	0.62
2:U:514:ARG:O	2:U:517:LEU:HG	2.00	0.62
2:V:407:CYS:O	2:V:450:ILE:HA	2.00	0.62
2:V:628:TYR:CE2	2:V:639:THR:HG22	2.34	0.62
2:X:555:ARG:O	2:X:559:MET:HE2	2.00	0.62
2:Y:215:LYS:HE3	2:Y:329:ASN:ND2	2.14	0.62
2:Y:514:ARG:O	2:Y:517:LEU:HG	2.00	0.62
2:Z:407:CYS:O	2:Z:450:ILE:HA	2.00	0.62
2:Z:514:ARG:O	2:Z:518:TYR:HD1	1.82	0.62
2:U:628:TYR:CE2	2:U:639:THR:HG22	2.34	0.61
2:V:107:GLY:HA3	2:V:110:TYR:HE1	1.65	0.61
2:V:561:LYS:O	2:V:564:ILE:HG12	2.00	0.61
2:W:107:GLY:HA3	2:W:110:TYR:HE1	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:407:CYS:O	2:W:450:ILE:HA	2.00	0.61
2:Z:514:ARG:HG2	2:Z:518:TYR:HE1	1.63	0.61
2:Z:556:LEU:CD1	2:Z:631:PRO:HA	2.30	0.61
2:U:455:LYS:HE2	2:U:502:VAL:HG22	1.82	0.61
2:V:514:ARG:O	2:V:517:LEU:HG	2.00	0.61
1:E:69:GLU:OE2	1:E:126:TYR:OH	2.09	0.61
2:V:555:ARG:O	2:V:559:MET:HE2	2.00	0.61
2:W:514:ARG:O	2:W:518:TYR:HD1	1.82	0.61
2:Z:427:VAL:CG1	2:Z:516:ARG:NH2	2.47	0.61
2:Z:555:ARG:O	2:Z:559:MET:HE2	2.00	0.61
1:D:69:GLU:OE2	1:D:126:TYR:OH	2.13	0.61
2:U:409:PRO:C	2:U:454:TYR:HE1	1.98	0.61
2:V:505:LEU:HD13	2:V:525:VAL:CG1	2.27	0.61
2:W:107:GLY:HA3	2:W:110:TYR:CE1	2.34	0.61
2:W:499:ILE:HG13	2:W:502:VAL:HG21	1.81	0.61
2:W:505:LEU:HD13	2:W:525:VAL:CG1	2.27	0.61
2:W:573:PHE:HD2	2:W:574:GLU:CD	2.04	0.61
2:X:107:GLY:HA3	2:X:110:TYR:CE1	2.34	0.61
2:U:278:GLN:HG2	2:U:296:SER:HB2	1.83	0.61
2:U:573:PHE:HD2	2:U:574:GLU:CD	2.04	0.61
2:V:107:GLY:HA3	2:V:110:TYR:CE1	2.35	0.61
2:V:213:ASN:HD22	2:V:213:ASN:N	1.98	0.61
2:Y:213:ASN:HD22	2:Y:213:ASN:N	1.98	0.61
2:U:556:LEU:CD1	2:U:631:PRO:HA	2.30	0.61
2:V:514:ARG:O	2:V:518:TYR:HD1	1.83	0.61
2:X:213:ASN:HD22	2:X:213:ASN:N	1.98	0.61
2:Z:278:GLN:HG2	2:Z:296:SER:HB2	1.83	0.61
2:U:517:LEU:HD11	2:U:524:PRO:HG3	1.81	0.61
2:W:213:ASN:HD22	2:W:213:ASN:N	1.98	0.61
2:Y:391:LYS:NZ	2:Y:440:ASN:HD21	1.92	0.61
2:U:107:GLY:HA3	2:U:110:TYR:HE1	1.66	0.61
2:X:107:GLY:HA3	2:X:110:TYR:HE1	1.65	0.61
2:Y:278:GLN:HG2	2:Y:296:SER:HB2	1.83	0.61
2:Y:573:PHE:HD2	2:Y:574:GLU:CD	2.03	0.61
2:Z:107:GLY:HA3	2:Z:110:TYR:HE1	1.66	0.61
2:U:514:ARG:HA	2:U:517:LEU:HG	1.82	0.61
2:V:455:LYS:HE2	2:V:502:VAL:HG22	1.83	0.61
1:F:66:ALA:O	1:F:68:VAL:N	2.32	0.61
2:U:404:LEU:CD2	2:U:554:ARG:NH1	2.60	0.61
2:Y:556:LEU:CD1	2:Y:631:PRO:HA	2.31	0.61
1:D:108:GLN:HB3	1:D:200:PRO:HD2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:573:PHE:HD2	2:V:574:GLU:CD	2.04	0.60
2:X:391:LYS:CE	2:X:440:ASN:O	2.49	0.60
2:X:514:ARG:O	2:X:518:TYR:HD1	1.82	0.60
2:Y:407:CYS:O	2:Y:450:ILE:HA	2.00	0.60
2:Z:409:PRO:C	2:Z:454:TYR:HE1	1.98	0.60
2:V:278:GLN:HG2	2:V:296:SER:HB2	1.83	0.60
2:W:97:GLY:HA3	2:W:256:PRO:HG2	1.83	0.60
2:W:517:LEU:HB2	2:W:522:ILE:HG21	1.83	0.60
2:X:514:ARG:O	2:X:517:LEU:HG	2.00	0.60
2:X:556:LEU:CD1	2:X:631:PRO:HA	2.31	0.60
2:Z:455:LYS:HE2	2:Z:502:VAL:HG22	1.83	0.60
2:Z:514:ARG:HA	2:Z:517:LEU:HG	1.82	0.60
2:Z:573:PHE:HD2	2:Z:574:GLU:CD	2.04	0.60
2:X:573:PHE:HD2	2:X:574:GLU:CD	2.04	0.60
1:E:66:ALA:O	1:E:68:VAL:N	2.32	0.60
2:V:556:LEU:CD1	2:V:631:PRO:HA	2.31	0.60
2:V:617:VAL:HG23	2:V:619:ASP:N	2.17	0.60
2:W:556:LEU:CD1	2:W:631:PRO:HA	2.31	0.60
2:W:627:PHE:HD1	2:W:629:ILE:HG13	1.67	0.60
2:X:161:PRO:HB3	2:X:187:ILE:HB	1.83	0.60
1:B:124:THR:HG21	1:B:130:MET:HG2	1.82	0.60
2:V:514:ARG:HA	2:V:517:LEU:HG	1.82	0.60
2:V:614:THR:HG21	2:V:620:ARG:HA	1.84	0.60
2:W:514:ARG:HA	2:W:517:LEU:HG	1.82	0.60
2:Y:517:LEU:HB2	2:Y:522:ILE:HG21	1.83	0.60
2:Z:617:VAL:HG23	2:Z:619:ASP:N	2.17	0.60
2:U:161:PRO:HB3	2:U:187:ILE:HB	1.83	0.60
2:U:575:LEU:HD12	2:U:575:LEU:N	2.17	0.60
2:W:161:PRO:HB3	2:W:187:ILE:HB	1.83	0.60
2:W:278:GLN:HG2	2:W:296:SER:HB2	1.82	0.60
2:Y:23:SER:HG	2:Y:483:ASN:HB3	1.65	0.60
2:U:617:VAL:HG23	2:U:619:ASP:N	2.17	0.60
2:V:575:LEU:N	2:V:575:LEU:HD12	2.17	0.60
2:Y:555:ARG:O	2:Y:559:MET:HE2	2.01	0.60
1:D:157:ILE:CG1	2:X:579:PHE:HB2	2.24	0.60
1:D:157:ILE:CG1	2:X:579:PHE:HB3	2.30	0.60
2:U:614:THR:HG21	2:U:620:ARG:HA	1.83	0.60
2:X:517:LEU:HB2	2:X:522:ILE:HG21	1.83	0.60
2:V:627:PHE:HD1	2:V:629:ILE:HG13	1.66	0.60
2:W:391:LYS:CE	2:W:440:ASN:O	2.49	0.60
2:W:614:THR:HG21	2:W:620:ARG:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y:97:GLY:HA3	2:Y:256:PRO:HG2	1.84	0.60
2:Y:514:ARG:HA	2:Y:517:LEU:HG	1.82	0.60
2:Y:617:VAL:HG23	2:Y:619:ASP:N	2.17	0.60
2:U:526:THR:HG23	2:U:535:LEU:HD11	1.84	0.60
2:X:455:LYS:HE2	2:X:502:VAL:HG22	1.83	0.60
2:Y:557:PHE:HE2	2:Y:631:PRO:HD3	1.67	0.60
2:Z:97:GLY:HA3	2:Z:256:PRO:HG2	1.83	0.60
2:V:97:GLY:HA3	2:V:256:PRO:HG2	1.84	0.59
2:V:517:LEU:HB2	2:V:522:ILE:HG21	1.83	0.59
2:W:575:LEU:HD12	2:W:575:LEU:N	2.16	0.59
2:Y:526:THR:HG23	2:Y:535:LEU:HG	1.85	0.59
2:Y:614:THR:HG21	2:Y:620:ARG:HA	1.83	0.59
2:W:617:VAL:HG23	2:W:619:ASP:N	2.17	0.59
2:X:514:ARG:HA	2:X:517:LEU:HG	1.82	0.59
2:X:526:THR:HG23	2:X:535:LEU:HG	1.84	0.59
2:X:617:VAL:HG23	2:X:619:ASP:N	2.16	0.59
2:Z:161:PRO:HB3	2:Z:187:ILE:HB	1.83	0.59
2:Z:391:LYS:CE	2:Z:440:ASN:O	2.49	0.59
2:U:517:LEU:HB2	2:U:522:ILE:HG21	1.83	0.59
2:U:542:THR:HG23	2:U:543:SER:N	2.18	0.59
2:V:409:PRO:C	2:V:454:TYR:HE1	1.98	0.59
2:Y:409:PRO:C	2:Y:454:TYR:HE1	1.98	0.59
2:Z:526:THR:HG23	2:Z:535:LEU:HD11	1.84	0.59
2:Z:614:THR:HG21	2:Z:620:ARG:HA	1.83	0.59
1:C:114:ILE:HG12	1:C:115:LYS:N	2.17	0.59
2:U:560:LEU:O	2:U:564:ILE:HG23	2.03	0.59
2:X:278:GLN:HG2	2:X:296:SER:HB2	1.83	0.59
2:Z:560:LEU:O	2:Z:564:ILE:HG23	2.03	0.59
2:U:419:VAL:HA	2:U:422:ALA:HB3	1.83	0.59
2:U:557:PHE:HE2	2:U:631:PRO:HD3	1.68	0.59
2:V:560:LEU:O	2:V:564:ILE:HG23	2.03	0.59
2:Y:455:LYS:HE2	2:Y:502:VAL:HG22	1.83	0.59
2:Y:575:LEU:HD12	2:Y:575:LEU:N	2.17	0.59
2:Z:542:THR:HG23	2:Z:543:SER:N	2.18	0.59
2:Z:557:PHE:HE2	2:Z:631:PRO:HD3	1.68	0.59
2:V:161:PRO:HB3	2:V:187:ILE:HB	1.83	0.59
2:V:391:LYS:CE	2:V:440:ASN:O	2.49	0.59
2:V:542:THR:HG23	2:V:543:SER:N	2.18	0.59
2:V:557:PHE:HE2	2:V:631:PRO:HD3	1.68	0.59
2:W:542:THR:HG23	2:W:543:SER:N	2.17	0.59
2:X:404:LEU:CD2	2:X:554:ARG:NH1	2.59	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:575:LEU:N	2:X:575:LEU:HD12	2.16	0.59
2:X:614:THR:HG21	2:X:620:ARG:HA	1.83	0.59
2:Y:560:LEU:O	2:Y:564:ILE:HG23	2.03	0.59
2:V:526:THR:HG23	2:V:535:LEU:HD11	1.84	0.59
2:W:557:PHE:HE2	2:W:631:PRO:HD3	1.68	0.59
2:X:97:GLY:HA3	2:X:256:PRO:HG2	1.83	0.59
2:X:542:THR:HG23	2:X:543:SER:N	2.17	0.59
2:Z:398:ASP:O	2:Z:401:GLN:HG3	2.03	0.59
2:Z:575:LEU:HD12	2:Z:575:LEU:N	2.17	0.59
2:W:455:LYS:HE2	2:W:502:VAL:HG22	1.83	0.59
2:W:560:LEU:O	2:W:564:ILE:HG23	2.03	0.59
2:X:560:LEU:O	2:X:564:ILE:HG23	2.03	0.59
2:Y:404:LEU:CD2	2:Y:554:ARG:NH1	2.60	0.59
2:Z:526:THR:HG23	2:Z:535:LEU:HG	1.85	0.59
2:U:23:SER:HG	2:U:483:ASN:HB3	1.66	0.59
2:U:391:LYS:CE	2:U:440:ASN:O	2.49	0.59
2:V:581:ARG:HB2	2:V:623:PHE:CZ	2.38	0.59
2:Y:501:ASN:OD1	2:Y:501:ASN:N	2.36	0.59
2:Y:576:ASN:HA	2:Y:580:THR:HG21	1.85	0.59
2:U:627:PHE:HD1	2:U:629:ILE:HG13	1.67	0.58
2:X:456:TYR:HB3	2:X:504:LYS:HB3	1.85	0.58
2:Z:517:LEU:HB2	2:Z:522:ILE:HG21	1.83	0.58
1:D:156:ASP:CB	2:X:579:PHE:HE1	2.14	0.58
1:F:114:ILE:HG12	1:F:115:LYS:H	1.68	0.58
2:V:526:THR:HG23	2:V:535:LEU:HG	1.84	0.58
2:W:419:VAL:HA	2:W:422:ALA:HB3	1.84	0.58
2:X:557:PHE:HE2	2:X:631:PRO:HD3	1.68	0.58
2:X:581:ARG:HB2	2:X:623:PHE:CZ	2.38	0.58
2:X:627:PHE:HD1	2:X:629:ILE:HG13	1.67	0.58
2:Y:398:ASP:O	2:Y:401:GLN:HG3	2.03	0.58
2:Y:581:ARG:HB2	2:Y:623:PHE:CZ	2.38	0.58
2:Z:60:GLU:HG2	2:Z:347:ASN:HB2	1.85	0.58
2:X:373:PHE:HB2	2:X:405:VAL:HA	1.85	0.58
2:Y:161:PRO:HB3	2:Y:187:ILE:HB	1.83	0.58
2:Y:557:PHE:HZ	2:Y:629:ILE:O	1.86	0.58
1:A:157:ILE:HD11	2:U:579:PHE:HB3	1.69	0.58
1:B:151:GLU:OE2	1:B:161:ARG:NH1	2.34	0.58
2:U:501:ASN:OD1	2:U:501:ASN:N	2.36	0.58
2:U:505:LEU:HD13	2:U:525:VAL:CG1	2.27	0.58
2:U:526:THR:HG23	2:U:535:LEU:HG	1.85	0.58
2:U:555:ARG:O	2:U:559:MET:HE2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:576:ASN:HA	2:U:580:THR:HG21	1.86	0.58
2:V:178:LEU:CD2	2:V:178:LEU:N	2.67	0.58
2:V:557:PHE:HE1	2:V:629:ILE:HB	1.68	0.58
2:X:398:ASP:O	2:X:401:GLN:HG3	2.03	0.58
2:Y:133:GLU:HB3	2:Y:142:LYS:HB3	1.86	0.58
2:Y:419:VAL:HA	2:Y:422:ALA:HB3	1.84	0.58
2:Z:627:PHE:HD1	2:Z:629:ILE:HG13	1.67	0.58
1:E:125:ARG:HH21	1:E:184:ARG:HG2	1.68	0.58
2:V:429:TRP:CZ2	2:V:441:PHE:HB2	2.39	0.58
2:W:23:SER:OG	2:W:483:ASN:HB2	2.03	0.58
2:W:373:PHE:HB2	2:W:405:VAL:HA	1.86	0.58
2:X:576:ASN:HA	2:X:580:THR:HG21	1.86	0.58
2:Y:627:PHE:HD1	2:Y:629:ILE:HG13	1.67	0.58
2:Z:523:ASN:OD1	2:Z:538:ASP:HA	2.04	0.58
2:U:398:ASP:O	2:U:401:GLN:HG3	2.04	0.58
2:W:429:TRP:CZ2	2:W:441:PHE:HB2	2.39	0.58
2:W:501:ASN:OD1	2:W:501:ASN:N	2.36	0.58
2:W:581:ARG:HB2	2:W:623:PHE:CZ	2.39	0.58
2:X:429:TRP:CZ2	2:X:441:PHE:HB2	2.39	0.58
2:Y:429:TRP:CZ2	2:Y:441:PHE:HB2	2.39	0.58
2:Z:576:ASN:HA	2:Z:580:THR:HG21	1.86	0.58
2:U:523:ASN:OD1	2:U:538:ASP:HA	2.04	0.58
2:W:523:ASN:ND2	2:W:538:ASP:HA	2.19	0.58
2:Y:391:LYS:CE	2:Y:440:ASN:O	2.49	0.58
2:U:557:PHE:HE1	2:U:629:ILE:HB	1.69	0.58
2:U:581:ARG:HB2	2:U:623:PHE:CZ	2.39	0.58
2:V:450:ILE:HG23	2:V:522:ILE:HG13	1.86	0.58
2:W:450:ILE:HG23	2:W:522:ILE:HG13	1.86	0.58
2:W:576:ASN:HA	2:W:580:THR:HG21	1.85	0.58
2:X:133:GLU:HB3	2:X:142:LYS:HB3	1.86	0.58
2:X:455:LYS:HG2	2:X:456:TYR:N	2.19	0.58
2:Z:429:TRP:CZ2	2:Z:441:PHE:HB2	2.39	0.58
2:U:450:ILE:N	2:U:540:THR:CG2	2.67	0.58
2:U:614:THR:HG23	2:U:615:PRO:O	2.04	0.58
2:V:419:VAL:HA	2:V:422:ALA:HB3	1.85	0.58
2:V:450:ILE:N	2:V:540:THR:CG2	2.66	0.58
2:W:133:GLU:HB3	2:W:142:LYS:HB3	1.86	0.58
2:W:398:ASP:O	2:W:401:GLN:HG3	2.04	0.58
2:Y:542:THR:HG23	2:Y:543:SER:N	2.18	0.58
2:Z:373:PHE:HB2	2:Z:404:LEU:O	2.04	0.58
2:V:455:LYS:HG2	2:V:456:TYR:N	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:557:PHE:HZ	2:U:629:ILE:O	1.87	0.57
2:V:557:PHE:HZ	2:V:629:ILE:O	1.86	0.57
2:W:373:PHE:HB2	2:W:404:LEU:O	2.04	0.57
2:X:523:ASN:ND2	2:X:538:ASP:HA	2.19	0.57
2:Z:404:LEU:CD2	2:Z:554:ARG:NH1	2.60	0.57
1:A:151:GLU:OE2	1:A:161:ARG:NH1	2.30	0.57
1:E:109:TYR:HB3	1:E:161:ARG:HH22	1.69	0.57
2:U:60:GLU:HG2	2:U:347:ASN:HB2	1.85	0.57
2:U:429:TRP:CZ2	2:U:441:PHE:HB2	2.39	0.57
2:W:456:TYR:O	2:W:503:ILE:HG12	2.04	0.57
2:W:526:THR:HG23	2:W:535:LEU:HD11	1.85	0.57
2:X:450:ILE:HG23	2:X:522:ILE:HG13	1.86	0.57
2:X:557:PHE:HZ	2:X:629:ILE:O	1.86	0.57
2:Y:450:ILE:HG23	2:Y:522:ILE:HG13	1.86	0.57
2:Y:526:THR:HG23	2:Y:535:LEU:HD11	1.85	0.57
2:U:97:GLY:HA3	2:U:256:PRO:HG2	1.84	0.57
2:U:178:LEU:CD2	2:U:178:LEU:N	2.66	0.57
2:V:60:GLU:HG2	2:V:347:ASN:HB2	1.85	0.57
2:V:373:PHE:HB2	2:V:404:LEU:O	2.04	0.57
2:V:576:ASN:HA	2:V:580:THR:HG21	1.86	0.57
2:W:526:THR:HG23	2:W:535:LEU:HG	1.85	0.57
2:W:557:PHE:HZ	2:W:629:ILE:O	1.87	0.57
2:W:571:ARG:HG3	2:W:572:LEU:N	2.19	0.57
2:X:423:VAL:HG21	2:X:513:GLN:CD	2.25	0.57
2:X:456:TYR:O	2:X:503:ILE:HG12	2.05	0.57
2:X:501:ASN:OD1	2:X:501:ASN:N	2.37	0.57
2:U:450:ILE:HD13	2:U:522:ILE:HD12	1.86	0.57
2:U:523:ASN:ND2	2:U:538:ASP:HA	2.19	0.57
2:V:373:PHE:HB2	2:V:405:VAL:HA	1.86	0.57
2:V:398:ASP:O	2:V:401:GLN:HG3	2.04	0.57
2:V:404:LEU:CD2	2:V:554:ARG:NH1	2.59	0.57
2:Z:419:VAL:HA	2:Z:422:ALA:HB3	1.85	0.57
2:Z:499:ILE:HG13	2:Z:502:VAL:CG2	2.34	0.57
2:U:456:TYR:HB3	2:U:504:LYS:HB3	1.85	0.57
2:U:499:ILE:HG13	2:U:502:VAL:CG2	2.35	0.57
2:W:499:ILE:HG13	2:W:502:VAL:CG2	2.35	0.57
2:W:514:ARG:CG	2:W:518:TYR:HE1	2.18	0.57
2:X:419:VAL:HA	2:X:422:ALA:HB3	1.84	0.57
2:Y:373:PHE:HB2	2:Y:405:VAL:HA	1.86	0.57
2:Y:456:TYR:O	2:Y:503:ILE:HG12	2.04	0.57
2:Y:456:TYR:HB3	2:Y:504:LYS:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:423:VAL:HG21	2:Z:513:GLN:CD	2.25	0.57
2:Z:450:ILE:HG23	2:Z:522:ILE:HG13	1.86	0.57
1:C:109:TYR:HB3	1:C:161:ARG:NH2	2.18	0.57
2:U:450:ILE:HG23	2:U:522:ILE:HG13	1.86	0.57
2:V:571:ARG:HG3	2:V:572:LEU:N	2.20	0.57
2:W:178:LEU:CD2	2:W:178:LEU:N	2.66	0.57
2:X:627:PHE:HZ	2:X:640:LEU:HD23	1.69	0.57
2:Z:178:LEU:CD2	2:Z:178:LEU:N	2.66	0.57
2:Z:557:PHE:HZ	2:Z:629:ILE:O	1.86	0.57
2:Z:581:ARG:HB2	2:Z:623:PHE:CZ	2.39	0.57
2:Z:614:THR:HG23	2:Z:615:PRO:O	2.05	0.57
2:V:501:ASN:OD1	2:V:501:ASN:N	2.37	0.57
2:V:523:ASN:ND2	2:V:538:ASP:HA	2.19	0.57
2:X:60:GLU:HG2	2:X:347:ASN:HB2	1.85	0.57
2:X:523:ASN:OD1	2:X:538:ASP:HA	2.04	0.57
2:Y:60:GLU:HG2	2:Y:347:ASN:HB2	1.85	0.57
2:Y:373:PHE:HB2	2:Y:404:LEU:O	2.04	0.57
2:Y:514:ARG:CG	2:Y:518:TYR:HE1	2.18	0.57
2:Y:523:ASN:ND2	2:Y:538:ASP:HA	2.19	0.57
2:V:456:TYR:O	2:V:503:ILE:HG12	2.04	0.57
2:V:514:ARG:CG	2:V:518:TYR:HE1	2.18	0.57
2:V:627:PHE:CD1	2:V:629:ILE:HG13	2.40	0.57
2:W:523:ASN:OD1	2:W:538:ASP:HA	2.05	0.57
2:X:557:PHE:HE1	2:X:629:ILE:HB	1.68	0.57
2:Z:450:ILE:N	2:Z:540:THR:CG2	2.66	0.57
2:Z:514:ARG:CG	2:Z:518:TYR:HE1	2.18	0.57
2:Z:627:PHE:CD1	2:Z:629:ILE:HG13	2.40	0.57
1:E:157:ILE:CD1	2:Y:579:PHE:CB	2.71	0.57
2:U:423:VAL:HG21	2:U:513:GLN:CD	2.25	0.57
2:V:596:LYS:HG2	2:V:601:ILE:O	2.05	0.57
2:Y:423:VAL:HG21	2:Y:513:GLN:CD	2.26	0.57
2:Y:558:ASN:HA	2:Y:561:LYS:HE2	1.86	0.57
2:Y:571:ARG:HG3	2:Y:572:LEU:N	2.20	0.57
2:Z:455:LYS:HG2	2:Z:456:TYR:N	2.19	0.57
1:C:151:GLU:OE2	1:C:161:ARG:NH1	2.37	0.57
2:U:373:PHE:HB2	2:U:404:LEU:O	2.05	0.57
2:U:596:LYS:HG2	2:U:601:ILE:O	2.05	0.57
2:Y:499:ILE:HG13	2:Y:502:VAL:CG2	2.35	0.57
2:Y:614:THR:HG23	2:Y:615:PRO:O	2.04	0.57
2:Z:456:TYR:HB3	2:Z:504:LYS:HB3	1.86	0.57
2:U:455:LYS:HG2	2:U:456:TYR:N	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:514:ARG:CG	2:U:518:TYR:HE1	2.18	0.56
2:V:450:ILE:HD13	2:V:522:ILE:HD12	1.86	0.56
2:V:499:ILE:HG13	2:V:502:VAL:CG2	2.34	0.56
2:W:456:TYR:HB3	2:W:504:LYS:HB3	1.85	0.56
2:X:450:ILE:HD13	2:X:522:ILE:HD12	1.86	0.56
2:X:514:ARG:CG	2:X:518:TYR:HE1	2.18	0.56
2:Y:455:LYS:HG2	2:Y:456:TYR:N	2.19	0.56
2:Y:557:PHE:HE1	2:Y:629:ILE:HB	1.69	0.56
2:Z:84:VAL:CG1	2:Z:85:ASP:O	2.53	0.56
2:Z:557:PHE:HE1	2:Z:629:ILE:HB	1.69	0.56
2:Z:571:ARG:HG3	2:Z:572:LEU:N	2.20	0.56
2:U:133:GLU:HB3	2:U:142:LYS:HB3	1.86	0.56
2:U:627:PHE:CD1	2:U:629:ILE:HG13	2.40	0.56
2:V:627:PHE:CE2	2:V:640:LEU:HD23	2.40	0.56
2:W:60:GLU:HG2	2:W:347:ASN:HB2	1.85	0.56
2:W:423:VAL:HG21	2:W:513:GLN:CD	2.25	0.56
2:X:526:THR:HG23	2:X:535:LEU:HD11	1.85	0.56
2:Y:431:THR:O	2:Y:432:ALA:HB2	2.05	0.56
2:Y:585:ARG:HH21	2:Y:606:VAL:HG12	1.71	0.56
2:Z:373:PHE:HB2	2:Z:405:VAL:HA	1.86	0.56
2:U:571:ARG:HG3	2:U:572:LEU:N	2.20	0.56
2:U:627:PHE:CE2	2:U:640:LEU:HD23	2.40	0.56
2:V:133:GLU:HB3	2:V:142:LYS:HB3	1.86	0.56
2:V:454:TYR:HE2	2:V:469:PRO:CB	2.19	0.56
2:V:456:TYR:HB3	2:V:504:LYS:HB3	1.86	0.56
2:W:605:ARG:HE	2:W:607:VAL:HB	1.70	0.56
2:X:50:LEU:C	2:X:50:LEU:HD12	2.26	0.56
2:X:431:THR:O	2:X:432:ALA:HB2	2.06	0.56
2:X:499:ILE:HG13	2:X:502:VAL:CG2	2.35	0.56
2:X:571:ARG:HG3	2:X:572:LEU:N	2.20	0.56
2:Y:454:TYR:HE2	2:Y:469:PRO:CB	2.19	0.56
2:Y:523:ASN:OD1	2:Y:538:ASP:HA	2.05	0.56
2:Y:605:ARG:HE	2:Y:607:VAL:HB	1.70	0.56
2:Y:627:PHE:CD1	2:Y:629:ILE:HG13	2.40	0.56
2:Z:133:GLU:HB3	2:Z:142:LYS:HB3	1.86	0.56
2:Z:501:ASN:OD1	2:Z:501:ASN:N	2.37	0.56
1:F:114:ILE:HG12	1:F:115:LYS:N	2.20	0.56
2:U:373:PHE:HB2	2:U:405:VAL:HA	1.86	0.56
2:U:624:VAL:HG12	2:U:643:VAL:HB	1.87	0.56
2:V:523:ASN:OD1	2:V:538:ASP:HA	2.05	0.56
2:W:283:VAL:HG21	2:W:323:ILE:HD13	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y:84:VAL:CG1	2:Y:85:ASP:O	2.53	0.56
2:Y:450:ILE:HD13	2:Y:522:ILE:HD12	1.87	0.56
2:Z:523:ASN:ND2	2:Z:538:ASP:HA	2.20	0.56
2:Z:539:LYS:HD2	2:Z:554:ARG:HD2	1.88	0.56
2:U:50:LEU:C	2:U:50:LEU:HD12	2.26	0.56
2:U:454:TYR:HE2	2:U:469:PRO:CB	2.19	0.56
2:U:456:TYR:O	2:U:503:ILE:HG12	2.04	0.56
2:V:423:VAL:HG21	2:V:513:GLN:CD	2.25	0.56
2:V:431:THR:O	2:V:432:ALA:HB2	2.06	0.56
2:W:450:ILE:HD13	2:W:522:ILE:HD12	1.86	0.56
2:W:455:LYS:HG2	2:W:456:TYR:N	2.19	0.56
2:X:614:THR:HG23	2:X:615:PRO:O	2.04	0.56
2:X:627:PHE:CD1	2:X:629:ILE:HG13	2.40	0.56
2:Z:456:TYR:O	2:Z:503:ILE:HG12	2.04	0.56
2:W:46:ASN:HB2	2:W:49:ASP:HB2	1.88	0.56
2:X:373:PHE:HB2	2:X:404:LEU:O	2.05	0.56
2:X:454:TYR:HE2	2:X:469:PRO:CB	2.19	0.56
2:Y:236:ILE:H	2:Y:236:ILE:HD12	1.71	0.56
2:Y:627:PHE:HZ	2:Y:640:LEU:HD23	1.70	0.56
2:Z:558:ASN:HA	2:Z:561:LYS:HE2	1.87	0.56
2:Z:596:LYS:HG2	2:Z:601:ILE:O	2.05	0.56
2:Z:627:PHE:CE2	2:Z:640:LEU:HD23	2.41	0.56
2:V:450:ILE:CG1	2:V:451:ASP:N	2.53	0.56
2:W:450:ILE:N	2:W:540:THR:CG2	2.66	0.56
2:Y:50:LEU:C	2:Y:50:LEU:HD12	2.26	0.56
2:Z:50:LEU:HD12	2:Z:50:LEU:C	2.26	0.56
2:Z:454:TYR:HE2	2:Z:469:PRO:CB	2.19	0.56
1:B:69:GLU:OE2	1:B:126:TYR:OH	2.18	0.56
1:D:156:ASP:CB	2:X:579:PHE:CE1	2.73	0.56
1:E:124:THR:HG23	1:E:126:TYR:H	1.71	0.56
2:U:503:ILE:O	2:U:504:LYS:HB2	2.06	0.56
2:V:558:ASN:HA	2:V:561:LYS:HE2	1.87	0.56
2:V:614:THR:HG23	2:V:615:PRO:O	2.05	0.56
2:W:50:LEU:C	2:W:50:LEU:HD12	2.27	0.56
2:W:431:THR:O	2:W:432:ALA:HB2	2.06	0.56
2:W:454:TYR:HE2	2:W:469:PRO:CB	2.19	0.56
2:W:627:PHE:CD1	2:W:629:ILE:HG13	2.40	0.56
2:X:84:VAL:CG1	2:X:85:ASP:O	2.53	0.56
2:X:585:ARG:HH21	2:X:606:VAL:HG12	1.71	0.56
2:X:605:ARG:HE	2:X:607:VAL:HB	1.70	0.56
2:X:635:ILE:HG23	2:X:635:ILE:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y:450:ILE:N	2:Y:540:THR:CG2	2.66	0.56
2:W:627:PHE:CE2	2:W:640:LEU:HD23	2.40	0.56
2:X:46:ASN:HB2	2:X:49:ASP:HB2	1.88	0.56
2:X:624:VAL:HG12	2:X:643:VAL:HB	1.88	0.56
2:X:627:PHE:CE2	2:X:640:LEU:HD23	2.40	0.56
2:Y:627:PHE:CE2	2:Y:640:LEU:HD23	2.40	0.56
2:Z:635:ILE:HG23	2:Z:635:ILE:O	2.06	0.56
1:D:114:ILE:HG12	1:D:115:LYS:H	1.71	0.56
2:U:558:ASN:HA	2:U:561:LYS:HE2	1.87	0.56
2:V:23:SER:OG	2:V:483:ASN:HB2	2.04	0.56
2:V:89:ALA:HB3	2:V:194:LEU:HD11	1.88	0.56
2:W:236:ILE:H	2:W:236:ILE:HD12	1.71	0.56
2:W:558:ASN:HA	2:W:561:LYS:HE2	1.87	0.56
2:X:596:LYS:HG2	2:X:601:ILE:O	2.05	0.56
2:Z:431:THR:O	2:Z:432:ALA:HB2	2.06	0.56
2:V:50:LEU:C	2:V:50:LEU:HD12	2.26	0.55
2:W:596:LYS:HG2	2:W:601:ILE:O	2.05	0.55
2:W:614:THR:HG23	2:W:615:PRO:O	2.05	0.55
2:X:503:ILE:O	2:X:504:LYS:HB2	2.06	0.55
2:Z:450:ILE:HD13	2:Z:522:ILE:HD12	1.86	0.55
1:D:124:THR:HG23	1:D:126:TYR:H	1.72	0.55
2:W:557:PHE:HE1	2:W:629:ILE:HB	1.69	0.55
2:Y:150:ILE:HG22	2:Y:167:TRP:CZ3	2.41	0.55
2:Y:503:ILE:O	2:Y:504:LYS:HB2	2.06	0.55
2:Y:624:VAL:HG12	2:Y:643:VAL:HB	1.89	0.55
2:Z:585:ARG:HH21	2:Z:606:VAL:HG12	1.71	0.55
2:Z:624:VAL:HG12	2:Z:643:VAL:HB	1.88	0.55
2:U:274:GLN:H	2:U:278:GLN:NE2	2.05	0.55
2:U:283:VAL:HG21	2:U:323:ILE:HD13	1.88	0.55
2:U:431:THR:O	2:U:432:ALA:HB2	2.06	0.55
2:V:283:VAL:HG21	2:V:323:ILE:HD13	1.88	0.55
2:W:234:ILE:HB	2:W:340:LEU:HD12	1.89	0.55
2:Y:635:ILE:O	2:Y:635:ILE:HG23	2.06	0.55
2:Z:46:ASN:HB2	2:Z:49:ASP:HB2	1.89	0.55
2:Z:381:GLU:HB3	2:Z:385:THR:HG23	1.87	0.55
2:U:84:VAL:CG1	2:U:85:ASP:O	2.54	0.55
2:U:89:ALA:HB3	2:U:194:LEU:HD11	1.89	0.55
2:U:539:LYS:HD2	2:U:554:ARG:HD2	1.89	0.55
2:V:150:ILE:HG22	2:V:167:TRP:CZ3	2.42	0.55
2:V:503:ILE:O	2:V:504:LYS:HB2	2.06	0.55
2:V:539:LYS:HD2	2:V:554:ARG:HD2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:302:LYS:HD3	2:W:306:ASP:HA	1.88	0.55
1:A:109:TYR:HB3	1:A:161:ARG:NH2	2.18	0.55
2:U:234:ILE:HB	2:U:340:LEU:HD12	1.89	0.55
2:U:382:SER:O	2:U:383:LEU:C	2.45	0.55
2:V:605:ARG:HE	2:V:607:VAL:HB	1.70	0.55
2:V:624:VAL:HG12	2:V:643:VAL:HB	1.87	0.55
2:X:150:ILE:HG22	2:X:167:TRP:CZ3	2.42	0.55
2:X:283:VAL:HG21	2:X:323:ILE:HD13	1.88	0.55
2:X:381:GLU:HB3	2:X:385:THR:HG23	1.89	0.55
2:X:539:LYS:HG2	2:X:541:ALA:N	2.22	0.55
2:Y:46:ASN:HB2	2:Y:49:ASP:HB2	1.88	0.55
2:Y:234:ILE:HB	2:Y:340:LEU:HD12	1.89	0.55
2:Z:150:ILE:HG22	2:Z:167:TRP:CZ3	2.42	0.55
2:U:51:VAL:HG22	2:U:65:PHE:HZ	1.72	0.55
2:U:570:TYR:CD2	2:U:584:PHE:CZ	2.95	0.55
2:V:302:LYS:HD3	2:V:306:ASP:HA	1.88	0.55
2:V:381:GLU:HB3	2:V:385:THR:HG23	1.89	0.55
2:V:526:THR:HG23	2:V:535:LEU:CD1	2.37	0.55
2:W:624:VAL:HG12	2:W:643:VAL:HB	1.88	0.55
2:Z:570:TYR:CD2	2:Z:584:PHE:CZ	2.95	0.55
2:Z:605:ARG:HE	2:Z:607:VAL:HB	1.70	0.55
1:A:6:TYR:CD2	1:A:208:LEU:HG	2.42	0.55
1:C:114:ILE:HG12	1:C:115:LYS:H	1.72	0.55
1:F:19:ASP:OD2	1:F:213:TYR:OH	2.22	0.55
2:U:347:ASN:O	2:U:348:ALA:C	2.45	0.55
2:U:381:GLU:HB3	2:U:385:THR:HG23	1.88	0.55
2:U:526:THR:HG23	2:U:535:LEU:CD1	2.37	0.55
2:V:23:SER:HG	2:V:483:ASN:HB3	1.69	0.55
2:W:455:LYS:HE2	2:W:502:VAL:CG2	2.37	0.55
2:X:236:ILE:H	2:X:236:ILE:HD12	1.71	0.55
2:X:558:ASN:HA	2:X:561:LYS:HE2	1.88	0.55
2:Z:347:ASN:O	2:Z:348:ALA:C	2.45	0.55
2:U:46:ASN:HB2	2:U:49:ASP:HB2	1.89	0.55
2:V:236:ILE:HD12	2:V:236:ILE:H	1.72	0.55
2:V:570:TYR:CD2	2:V:584:PHE:CZ	2.95	0.55
2:W:274:GLN:H	2:W:278:GLN:NE2	2.05	0.55
2:X:624:VAL:HB	2:X:643:VAL:HG12	1.89	0.55
1:E:19:ASP:HA	1:E:22:SER:HB2	1.89	0.55
2:U:150:ILE:HG22	2:U:167:TRP:CZ3	2.42	0.55
2:U:635:ILE:HG23	2:U:635:ILE:O	2.06	0.55
2:V:46:ASN:HB2	2:V:49:ASP:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:84:VAL:CG1	2:V:85:ASP:O	2.54	0.55
2:V:234:ILE:HB	2:V:340:LEU:HD12	1.89	0.55
2:W:635:ILE:HG23	2:W:635:ILE:O	2.06	0.55
2:X:274:GLN:H	2:X:278:GLN:NE2	2.05	0.55
2:X:450:ILE:N	2:X:540:THR:CG2	2.66	0.55
2:Y:274:GLN:H	2:Y:278:GLN:NE2	2.05	0.55
2:Y:570:TYR:CD2	2:Y:584:PHE:CZ	2.95	0.55
2:Z:150:ILE:HG22	2:Z:167:TRP:HZ3	1.72	0.55
2:U:585:ARG:HH21	2:U:606:VAL:HG12	1.71	0.55
2:V:274:GLN:H	2:V:278:GLN:NE2	2.05	0.55
2:W:382:SER:O	2:W:383:LEU:C	2.45	0.55
2:W:630:GLN:HE21	2:W:636:ASN:H	1.55	0.55
2:Y:206:THR:HG22	2:Y:206:THR:O	2.07	0.55
2:Y:302:LYS:HD3	2:Y:306:ASP:HA	1.88	0.55
2:Z:89:ALA:HB3	2:Z:194:LEU:HD11	1.88	0.55
2:U:150:ILE:HG22	2:U:167:TRP:HZ3	1.72	0.54
2:V:206:THR:O	2:V:206:THR:HG22	2.07	0.54
2:V:347:ASN:O	2:V:348:ALA:C	2.45	0.54
2:W:89:ALA:HB3	2:W:194:LEU:HD11	1.88	0.54
2:W:526:THR:HG23	2:W:535:LEU:CD1	2.37	0.54
2:W:539:LYS:HG2	2:W:541:ALA:N	2.22	0.54
2:W:570:TYR:CD2	2:W:584:PHE:CZ	2.95	0.54
2:W:585:ARG:HH21	2:W:606:VAL:HG12	1.71	0.54
2:Y:526:THR:HG23	2:Y:535:LEU:CD1	2.37	0.54
2:Z:274:GLN:H	2:Z:278:GLN:NE2	2.06	0.54
1:A:6:TYR:N	1:A:204:ASP:OD2	2.38	0.54
2:V:624:VAL:HB	2:V:643:VAL:HG12	1.90	0.54
2:W:503:ILE:O	2:W:504:LYS:HB2	2.06	0.54
2:W:624:VAL:HB	2:W:643:VAL:HG12	1.89	0.54
2:X:206:THR:O	2:X:206:THR:HG22	2.08	0.54
2:Y:283:VAL:HG21	2:Y:323:ILE:HD13	1.88	0.54
2:Y:624:VAL:HB	2:Y:643:VAL:HG12	1.89	0.54
2:U:539:LYS:HG2	2:U:541:ALA:N	2.22	0.54
2:U:624:VAL:HB	2:U:643:VAL:HG12	1.89	0.54
2:W:570:TYR:HD2	2:W:584:PHE:CZ	2.25	0.54
2:X:347:ASN:O	2:X:348:ALA:C	2.45	0.54
2:X:526:THR:HG23	2:X:535:LEU:CD1	2.37	0.54
2:Y:596:LYS:HG2	2:Y:601:ILE:O	2.06	0.54
2:Z:206:THR:O	2:Z:206:THR:HG22	2.07	0.54
2:Z:455:LYS:HE2	2:Z:502:VAL:CG2	2.37	0.54
2:Z:503:ILE:O	2:Z:504:LYS:HB2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:236:ILE:H	2:U:236:ILE:HD12	1.72	0.54
2:V:51:VAL:HG22	2:V:65:PHE:HZ	1.72	0.54
2:V:455:LYS:HE2	2:V:502:VAL:CG2	2.37	0.54
2:V:585:ARG:HH21	2:V:606:VAL:HG12	1.71	0.54
2:W:381:GLU:HB3	2:W:385:THR:HG23	1.90	0.54
2:X:89:ALA:HB3	2:X:194:LEU:HD11	1.88	0.54
2:Z:526:THR:HG23	2:Z:535:LEU:CD1	2.37	0.54
2:U:302:LYS:HD3	2:U:306:ASP:HA	1.88	0.54
2:U:605:ARG:HE	2:U:607:VAL:HB	1.71	0.54
2:U:630:GLN:HE21	2:U:636:ASN:H	1.55	0.54
2:V:150:ILE:HG22	2:V:167:TRP:HZ3	1.72	0.54
2:W:206:THR:HG22	2:W:206:THR:O	2.08	0.54
2:W:627:PHE:HZ	2:W:640:LEU:HD23	1.68	0.54
2:X:90:LYS:HB2	2:X:344:LEU:HB3	1.90	0.54
2:X:570:TYR:CD2	2:X:584:PHE:CZ	2.95	0.54
2:Z:23:SER:HG	2:Z:483:ASN:HB3	1.69	0.54
2:Z:236:ILE:H	2:Z:236:ILE:HD12	1.71	0.54
2:V:570:TYR:HD2	2:V:584:PHE:CZ	2.26	0.54
2:W:347:ASN:O	2:W:348:ALA:C	2.46	0.54
2:W:539:LYS:HD2	2:W:554:ARG:HD2	1.89	0.54
2:X:455:LYS:HE2	2:X:502:VAL:CG2	2.37	0.54
2:X:539:LYS:HD2	2:X:554:ARG:HD2	1.90	0.54
2:X:580:THR:O	2:X:584:PHE:HD1	1.90	0.54
2:Y:89:ALA:HB3	2:Y:194:LEU:HD11	1.88	0.54
2:Z:51:VAL:HG22	2:Z:65:PHE:HZ	1.73	0.54
2:Z:234:ILE:HB	2:Z:340:LEU:HD12	1.89	0.54
2:Z:624:VAL:HB	2:Z:643:VAL:HG12	1.89	0.54
2:V:539:LYS:HG2	2:V:541:ALA:N	2.22	0.54
2:V:635:ILE:HG23	2:V:635:ILE:O	2.06	0.54
2:W:580:THR:O	2:W:584:PHE:HD1	1.91	0.54
2:X:178:LEU:CD2	2:X:178:LEU:N	2.66	0.54
2:Y:244:TYR:CD2	2:Y:273:PRO:HD2	2.43	0.54
2:Y:618:ILE:HG23	2:Y:619:ASP:N	2.23	0.54
1:B:66:ALA:O	1:B:68:VAL:N	2.38	0.54
2:U:455:LYS:HE2	2:U:502:VAL:CG2	2.37	0.54
2:W:84:VAL:CG1	2:W:85:ASP:O	2.54	0.54
2:X:618:ILE:HG23	2:X:619:ASP:N	2.23	0.54
2:Y:381:GLU:HB3	2:Y:385:THR:HG23	1.89	0.54
2:Z:244:TYR:CD2	2:Z:273:PRO:HD2	2.43	0.54
2:W:150:ILE:HG22	2:W:167:TRP:CZ3	2.42	0.54
2:X:173:SER:N	2:X:174:SER:HA	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:244:TYR:CD2	2:X:273:PRO:HD2	2.43	0.54
2:Y:347:ASN:O	2:Y:348:ALA:C	2.46	0.54
2:Z:539:LYS:HG2	2:Z:541:ALA:N	2.23	0.54
1:B:156:ASP:CB	2:V:579:PHE:CD1	2.82	0.54
2:U:523:ASN:CG	2:U:538:ASP:HA	2.29	0.54
2:U:570:TYR:HD2	2:U:584:PHE:CZ	2.26	0.54
2:X:234:ILE:HB	2:X:340:LEU:HD12	1.89	0.54
2:X:382:SER:O	2:X:383:LEU:C	2.46	0.54
2:Y:23:SER:OG	2:Y:483:ASN:HB2	2.04	0.54
2:Y:150:ILE:HG22	2:Y:167:TRP:HZ3	1.72	0.54
2:Y:455:LYS:HE2	2:Y:502:VAL:CG2	2.37	0.54
2:Y:557:PHE:HE2	2:Y:631:PRO:CD	2.20	0.54
2:Z:283:VAL:HG21	2:Z:323:ILE:HD13	1.88	0.54
1:F:157:ILE:HB	2:Z:579:PHE:CE2	2.39	0.53
2:V:90:LYS:HB2	2:V:344:LEU:HB3	1.90	0.53
2:X:570:TYR:HD2	2:X:584:PHE:CZ	2.26	0.53
2:Z:618:ILE:HG23	2:Z:619:ASP:N	2.23	0.53
1:B:125:ARG:HH21	1:B:184:ARG:HG2	1.74	0.53
1:F:124:THR:CG2	1:F:130:MET:HG2	2.37	0.53
2:X:150:ILE:HG22	2:X:167:TRP:HZ3	1.72	0.53
2:Y:228:GLY:HA2	2:Y:345:SER:H	1.74	0.53
2:Y:371:GLN:HB3	2:Y:484:VAL:HG23	1.90	0.53
2:Z:446:THR:CB	2:Z:542:THR:HG22	2.39	0.53
2:U:206:THR:O	2:U:206:THR:HG22	2.07	0.53
2:U:408:SER:CB	2:U:451:ASP:HB3	2.39	0.53
2:U:618:ILE:HG23	2:U:619:ASP:N	2.23	0.53
2:W:523:ASN:CG	2:W:538:ASP:HA	2.29	0.53
2:Z:397:GLY:HA2	2:Z:403:CYS:SG	2.49	0.53
1:A:106:VAL:HG12	1:A:107:SER:H	1.74	0.53
2:W:172:SER:O	2:W:174:SER:HA	2.07	0.53
2:W:408:SER:CB	2:W:451:ASP:HB3	2.39	0.53
2:Y:90:LYS:HB2	2:Y:344:LEU:HB3	1.91	0.53
2:Z:228:GLY:HA2	2:Z:345:SER:H	1.74	0.53
2:Z:302:LYS:HD3	2:Z:306:ASP:HA	1.89	0.53
2:U:114:ASP:CG	2:U:175:SER:HB2	2.29	0.53
2:U:627:PHE:HZ	2:U:640:LEU:HD23	1.69	0.53
2:V:244:TYR:CD2	2:V:273:PRO:HD2	2.43	0.53
2:W:90:LYS:HB2	2:W:344:LEU:HB3	1.91	0.53
2:W:371:GLN:HB3	2:W:484:VAL:HG23	1.90	0.53
2:W:448:ALA:HB3	2:W:540:THR:OG1	2.09	0.53
2:W:618:ILE:HG23	2:W:619:ASP:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:302:LYS:HD3	2:X:306:ASP:HA	1.89	0.53
2:Y:580:THR:O	2:Y:584:PHE:HD1	1.91	0.53
2:Z:451:ASP:OD2	2:Z:471:ALA:N	2.42	0.53
2:Z:562:THR:HG23	2:Z:563:ASN:N	2.24	0.53
2:U:244:TYR:CD2	2:U:273:PRO:HD2	2.44	0.53
2:U:557:PHE:HE2	2:U:631:PRO:CD	2.21	0.53
2:V:580:THR:O	2:V:584:PHE:HD1	1.91	0.53
2:V:618:ILE:HG23	2:V:619:ASP:N	2.23	0.53
2:X:448:ALA:HB3	2:X:540:THR:OG1	2.08	0.53
2:X:523:ASN:CG	2:X:538:ASP:HA	2.29	0.53
2:X:557:PHE:HE2	2:X:631:PRO:CD	2.21	0.53
2:Y:51:VAL:HG22	2:Y:65:PHE:HZ	1.73	0.53
2:Y:173:SER:N	2:Y:174:SER:HA	2.22	0.53
2:Y:630:GLN:HE21	2:Y:636:ASN:H	1.55	0.53
2:Z:114:ASP:CG	2:Z:175:SER:HB2	2.29	0.53
2:Z:172:SER:O	2:Z:174:SER:HA	2.08	0.53
1:B:19:ASP:HA	1:B:22:SER:HB2	1.90	0.53
2:U:448:ALA:HB3	2:U:540:THR:OG1	2.09	0.53
2:V:374:ILE:HG23	2:V:472:ALA:HA	1.90	0.53
2:V:557:PHE:HE2	2:V:631:PRO:CD	2.21	0.53
2:V:630:GLN:HE21	2:V:636:ASN:H	1.56	0.53
2:W:150:ILE:HG22	2:W:167:TRP:HZ3	1.72	0.53
2:W:449:ALA:HB2	2:W:539:LYS:HA	1.91	0.53
2:Y:114:ASP:CG	2:Y:175:SER:HB2	2.29	0.53
2:Z:408:SER:CB	2:Z:451:ASP:HB3	2.39	0.53
2:U:580:THR:O	2:U:584:PHE:HD1	1.90	0.53
2:X:228:GLY:HA2	2:X:345:SER:CB	2.31	0.53
2:X:449:ALA:HB2	2:X:539:LYS:HA	1.91	0.53
2:Y:570:TYR:HD2	2:Y:584:PHE:CZ	2.26	0.53
2:Z:371:GLN:HB3	2:Z:484:VAL:HG23	1.90	0.53
2:Z:523:ASN:CG	2:Z:538:ASP:HA	2.29	0.53
2:Z:570:TYR:HD2	2:Z:584:PHE:CZ	2.26	0.53
1:A:56:TRP:HB3	1:A:71:ILE:HD13	1.91	0.53
2:U:275:THR:OG1	2:U:278:GLN:HG3	2.09	0.53
2:V:289:ILE:HD12	2:V:289:ILE:N	2.24	0.53
2:V:627:PHE:HZ	2:V:640:LEU:HD23	1.69	0.53
2:X:51:VAL:HG22	2:X:65:PHE:HZ	1.73	0.53
2:Y:523:ASN:CG	2:Y:538:ASP:HA	2.29	0.53
2:Y:557:PHE:HE2	2:Y:631:PRO:CG	2.22	0.53
2:Y:562:THR:HG23	2:Y:563:ASN:N	2.24	0.53
2:Z:90:LYS:HB2	2:Z:344:LEU:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:124:THR:HG23	1:F:126:TYR:H	1.73	0.53
2:U:446:THR:CB	2:U:542:THR:HG22	2.39	0.53
2:V:451:ASP:OD2	2:V:471:ALA:N	2.42	0.53
2:W:275:THR:OG1	2:W:278:GLN:HG3	2.09	0.53
2:Y:382:SER:O	2:Y:383:LEU:C	2.46	0.53
2:Y:451:ASP:OD2	2:Y:471:ALA:N	2.42	0.53
2:Z:502:VAL:HG12	2:Z:504:LYS:H	1.74	0.53
1:E:26:ILE:HD11	1:E:37:ILE:HD11	1.91	0.52
2:U:172:SER:O	2:U:174:SER:HA	2.09	0.52
2:V:449:ALA:HB2	2:V:539:LYS:HA	1.91	0.52
2:V:523:ASN:CG	2:V:538:ASP:HA	2.29	0.52
2:X:562:THR:HG23	2:X:563:ASN:N	2.24	0.52
2:Y:172:SER:O	2:Y:174:SER:HA	2.08	0.52
2:Z:289:ILE:HD12	2:Z:289:ILE:N	2.24	0.52
2:Z:517:LEU:CD2	2:Z:524:PRO:HB3	2.39	0.52
1:E:157:ILE:CB	2:Y:579:PHE:CG	2.89	0.52
1:F:69:GLU:OE2	1:F:126:TYR:OH	2.11	0.52
2:U:90:LYS:HB2	2:U:344:LEU:HB3	1.91	0.52
2:U:289:ILE:HD12	2:U:289:ILE:N	2.24	0.52
2:V:228:GLY:HA2	2:V:345:SER:N	2.25	0.52
2:V:408:SER:CB	2:V:451:ASP:HB3	2.39	0.52
2:V:446:THR:CB	2:V:542:THR:HG22	2.39	0.52
2:W:51:VAL:HG22	2:W:65:PHE:HZ	1.73	0.52
2:W:114:ASP:CG	2:W:175:SER:HB2	2.29	0.52
2:W:518:TYR:O	2:W:519:GLN:HB3	2.09	0.52
2:W:595:ASN:CB	2:W:601:ILE:HD12	2.39	0.52
2:X:371:GLN:HB3	2:X:484:VAL:HG23	1.90	0.52
2:Y:449:ALA:HB2	2:Y:539:LYS:HA	1.92	0.52
1:E:157:ILE:N	2:Y:579:PHE:CD1	2.72	0.52
2:U:371:GLN:HB3	2:U:484:VAL:HG23	1.90	0.52
2:U:576:ASN:HB3	2:U:620:ARG:NH2	2.24	0.52
2:W:198:ILE:HG23	2:W:201:ALA:HB2	1.92	0.52
2:W:557:PHE:HE2	2:W:631:PRO:CD	2.21	0.52
2:X:172:SER:O	2:X:174:SER:HA	2.09	0.52
2:X:408:SER:CB	2:X:451:ASP:HB3	2.39	0.52
2:Y:275:THR:OG1	2:Y:278:GLN:HG3	2.09	0.52
2:Z:557:PHE:HE2	2:Z:631:PRO:CD	2.21	0.52
2:Z:580:THR:O	2:Z:584:PHE:HD1	1.91	0.52
2:U:198:ILE:HG23	2:U:201:ALA:HB2	1.92	0.52
2:U:502:VAL:HG12	2:U:504:LYS:H	1.74	0.52
2:V:114:ASP:CG	2:V:175:SER:HB2	2.29	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:595:ASN:CB	2:V:601:ILE:HD12	2.39	0.52
2:W:244:TYR:CD2	2:W:273:PRO:HD2	2.44	0.52
2:Y:352:ALA:O	2:Y:355:LEU:HB2	2.10	0.52
2:Z:29:LEU:O	2:Z:80:VAL:HA	2.10	0.52
2:Z:198:ILE:HG23	2:Z:201:ALA:HB2	1.92	0.52
2:Z:449:ALA:HB2	2:Z:539:LYS:HA	1.92	0.52
1:B:27:LYS:HE2	1:B:29:GLN:HG2	1.91	0.52
2:U:374:ILE:HG23	2:U:472:ALA:HA	1.91	0.52
2:V:371:GLN:HB3	2:V:484:VAL:HG23	1.91	0.52
2:W:173:SER:N	2:W:174:SER:HA	2.22	0.52
2:W:397:GLY:HA2	2:W:403:CYS:SG	2.49	0.52
2:W:446:THR:C	2:W:539:LYS:HE3	2.20	0.52
2:X:23:SER:HG	2:X:483:ASN:HB3	1.74	0.52
2:Z:275:THR:OG1	2:Z:278:GLN:HG3	2.10	0.52
2:Z:630:GLN:HE21	2:Z:636:ASN:H	1.55	0.52
2:U:562:THR:HG23	2:U:563:ASN:N	2.24	0.52
2:U:582:SER:O	2:U:583:SER:HB3	2.10	0.52
2:V:228:GLY:HA2	2:V:345:SER:H	1.74	0.52
2:V:382:SER:O	2:V:383:LEU:C	2.45	0.52
2:V:562:THR:HG23	2:V:563:ASN:N	2.24	0.52
2:W:289:ILE:HD12	2:W:289:ILE:N	2.24	0.52
2:W:451:ASP:OD2	2:W:471:ALA:N	2.42	0.52
2:Y:399:VAL:O	2:Y:399:VAL:HG12	2.09	0.52
2:Y:518:TYR:O	2:Y:519:GLN:HB3	2.10	0.52
2:Z:448:ALA:HB3	2:Z:540:THR:OG1	2.09	0.52
2:Z:557:PHE:HE2	2:Z:631:PRO:CG	2.22	0.52
2:U:397:GLY:HA2	2:U:403:CYS:SG	2.49	0.52
2:V:172:SER:O	2:V:174:SER:HA	2.08	0.52
2:X:557:PHE:HE2	2:X:631:PRO:CG	2.22	0.52
2:Y:374:ILE:HG23	2:Y:472:ALA:HA	1.91	0.52
2:Z:518:TYR:HE2	2:Z:536:TYR:HB2	1.69	0.52
1:C:157:ILE:HD12	2:W:579:PHE:CD2	2.45	0.52
1:D:151:GLU:OE2	1:D:161:ARG:NH1	2.39	0.52
1:F:66:ALA:C	1:F:68:VAL:H	2.13	0.52
2:U:399:VAL:O	2:U:399:VAL:HG12	2.09	0.52
2:U:446:THR:C	2:U:539:LYS:HE3	2.21	0.52
2:U:557:PHE:HE2	2:U:631:PRO:CG	2.22	0.52
2:V:198:ILE:HG23	2:V:201:ALA:HB2	1.92	0.52
2:W:502:VAL:HG12	2:W:504:LYS:H	1.75	0.52
2:X:198:ILE:HG23	2:X:201:ALA:HB2	1.92	0.52
2:X:228:GLY:HA2	2:X:345:SER:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:397:GLY:HA2	2:X:403:CYS:SG	2.49	0.52
2:Y:198:ILE:HG23	2:Y:201:ALA:HB2	1.92	0.52
2:Y:518:TYR:HE2	2:Y:536:TYR:HB2	1.70	0.52
2:Z:382:SER:O	2:Z:383:LEU:C	2.46	0.52
2:Z:453:ASN:H	2:Z:453:ASN:HD22	1.58	0.52
1:D:124:THR:CG2	1:D:130:MET:HG2	2.39	0.52
2:U:51:VAL:HG22	2:U:65:PHE:CZ	2.45	0.52
2:U:228:GLY:HA2	2:U:345:SER:H	1.74	0.52
2:U:391:LYS:HE3	2:U:441:PHE:HA	1.92	0.52
2:U:518:TYR:O	2:U:519:GLN:HB3	2.10	0.52
2:V:496:ARG:N	2:V:534:VAL:HG11	2.25	0.52
2:V:518:TYR:O	2:V:519:GLN:HB3	2.10	0.52
2:W:228:GLY:HA2	2:W:345:SER:H	1.74	0.52
2:W:446:THR:CB	2:W:542:THR:HG22	2.39	0.52
2:X:114:ASP:CG	2:X:175:SER:HB2	2.29	0.52
2:X:374:ILE:HG23	2:X:472:ALA:HA	1.91	0.52
2:Y:51:VAL:HG22	2:Y:65:PHE:CZ	2.45	0.52
2:Z:25:GLY:HA2	2:Z:484:VAL:HG21	1.92	0.52
2:U:228:GLY:HA2	2:U:345:SER:N	2.25	0.52
2:V:29:LEU:O	2:V:80:VAL:HA	2.10	0.52
2:V:397:GLY:HA2	2:V:403:CYS:SG	2.50	0.52
2:V:502:VAL:HG12	2:V:504:LYS:H	1.75	0.52
2:W:391:LYS:HE3	2:W:441:PHE:HA	1.92	0.52
2:W:605:ARG:O	2:W:609:ASP:HB2	2.10	0.52
2:X:23:SER:OG	2:X:483:ASN:HB2	2.04	0.52
2:X:51:VAL:HG22	2:X:65:PHE:CZ	2.45	0.52
2:X:391:LYS:HE3	2:X:441:PHE:HA	1.92	0.52
2:Y:228:GLY:HA2	2:Y:345:SER:N	2.25	0.52
2:Y:448:ALA:HB3	2:Y:540:THR:OG1	2.10	0.52
2:Z:511:GLN:HA	2:Z:511:GLN:HE21	1.75	0.52
1:A:212:THR:HA	1:A:222:ASP:HA	1.92	0.51
2:U:449:ALA:HB2	2:U:539:LYS:HA	1.92	0.51
2:V:51:VAL:HG22	2:V:65:PHE:CZ	2.45	0.51
2:V:557:PHE:HE2	2:V:631:PRO:CG	2.22	0.51
2:W:51:VAL:HG22	2:W:65:PHE:CZ	2.45	0.51
2:W:352:ALA:O	2:W:355:LEU:HB2	2.10	0.51
2:W:454:TYR:HE2	2:W:469:PRO:HB3	1.76	0.51
2:X:451:ASP:OD2	2:X:471:ALA:N	2.42	0.51
2:X:539:LYS:HD3	2:X:541:ALA:HB2	1.91	0.51
2:Y:289:ILE:HD12	2:Y:289:ILE:N	2.24	0.51
2:Y:397:GLY:HA2	2:Y:403:CYS:SG	2.49	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y:454:TYR:HE2	2:Y:469:PRO:HB3	1.76	0.51
2:U:84:VAL:HG13	2:U:89:ALA:HB2	1.92	0.51
2:U:451:ASP:OD2	2:U:471:ALA:N	2.42	0.51
2:U:454:TYR:HE2	2:U:469:PRO:HB3	1.76	0.51
2:V:275:THR:OG1	2:V:278:GLN:HG3	2.10	0.51
2:X:502:VAL:HG12	2:X:504:LYS:H	1.75	0.51
2:X:511:GLN:HE21	2:X:511:GLN:HA	1.75	0.51
2:X:517:LEU:CD2	2:X:524:PRO:HB3	2.38	0.51
2:X:605:ARG:HD3	2:X:608:CYS:SG	2.51	0.51
2:Y:517:LEU:CD2	2:Y:524:PRO:HB3	2.39	0.51
2:U:605:ARG:HD3	2:U:608:CYS:SG	2.51	0.51
2:V:560:LEU:HD13	2:V:591:TYR:HE2	1.76	0.51
2:W:496:ARG:N	2:W:534:VAL:HG11	2.24	0.51
2:W:557:PHE:HE2	2:W:631:PRO:CG	2.22	0.51
2:X:30:ALA:HB3	2:X:359:TRP:CD2	2.46	0.51
2:X:399:VAL:O	2:X:399:VAL:HG12	2.10	0.51
2:X:454:TYR:HE2	2:X:469:PRO:HB3	1.76	0.51
2:Z:194:LEU:HD23	2:Z:195:LEU:N	2.25	0.51
2:Z:374:ILE:HG23	2:Z:472:ALA:HA	1.91	0.51
2:Z:518:TYR:O	2:Z:519:GLN:HB3	2.10	0.51
2:Z:576:ASN:HB3	2:Z:620:ARG:NH2	2.25	0.51
2:Z:627:PHE:HZ	2:Z:640:LEU:HD23	1.69	0.51
1:A:147:THR:HG23	1:A:163:ILE:HB	1.92	0.51
1:D:109:TYR:HB3	1:D:161:ARG:NH2	2.18	0.51
2:U:453:ASN:H	2:U:453:ASN:HD22	1.58	0.51
2:U:605:ARG:O	2:U:609:ASP:HB2	2.10	0.51
2:V:448:ALA:HB3	2:V:540:THR:OG1	2.10	0.51
2:W:399:VAL:O	2:W:399:VAL:HG12	2.10	0.51
2:X:84:VAL:HG13	2:X:89:ALA:HB2	1.93	0.51
2:X:275:THR:OG1	2:X:278:GLN:HG3	2.09	0.51
2:Y:84:VAL:HG13	2:Y:89:ALA:HB2	1.92	0.51
2:Z:173:SER:N	2:Z:174:SER:HA	2.22	0.51
2:Z:399:VAL:HG12	2:Z:399:VAL:O	2.09	0.51
2:Z:595:ASN:CB	2:Z:601:ILE:HD12	2.39	0.51
2:U:29:LEU:O	2:U:80:VAL:HA	2.10	0.51
2:W:228:GLY:HA2	2:W:345:SER:N	2.25	0.51
2:X:228:GLY:HA2	2:X:345:SER:H	1.74	0.51
2:Y:29:LEU:O	2:Y:80:VAL:HA	2.10	0.51
2:Y:237:GLU:HG3	2:Y:337:ILE:CD1	2.41	0.51
2:Y:502:VAL:HG12	2:Y:504:LYS:H	1.75	0.51
2:Y:605:ARG:O	2:Y:609:ASP:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:108:GLN:HB3	1:C:200:PRO:HD2	1.91	0.51
2:U:496:ARG:N	2:U:534:VAL:HG11	2.25	0.51
2:U:517:LEU:CD2	2:U:524:PRO:HB3	2.39	0.51
2:V:25:GLY:HA2	2:V:484:VAL:HG21	1.93	0.51
2:V:173:SER:N	2:V:174:SER:HA	2.22	0.51
2:V:194:LEU:HD23	2:V:195:LEU:N	2.26	0.51
2:V:352:ALA:O	2:V:355:LEU:HB2	2.11	0.51
2:V:605:ARG:O	2:V:609:ASP:HB2	2.10	0.51
2:W:84:VAL:HG13	2:W:89:ALA:HB2	1.93	0.51
2:W:161:PRO:O	2:W:186:LYS:HB3	2.11	0.51
2:W:562:THR:HG23	2:W:563:ASN:N	2.24	0.51
2:X:446:THR:C	2:X:539:LYS:HE3	2.21	0.51
2:Y:194:LEU:HD23	2:Y:195:LEU:N	2.26	0.51
2:Z:51:VAL:HG22	2:Z:65:PHE:CZ	2.45	0.51
2:Z:560:LEU:HD13	2:Z:591:TYR:HE2	1.75	0.51
1:F:5:PHE:CE2	1:F:201:PRO:HB3	2.45	0.51
2:U:173:SER:N	2:U:174:SER:HA	2.22	0.51
2:U:194:LEU:HD23	2:U:195:LEU:N	2.26	0.51
2:U:237:GLU:HG3	2:U:337:ILE:CD1	2.41	0.51
2:U:352:ALA:O	2:U:355:LEU:HB2	2.10	0.51
2:W:374:ILE:HG23	2:W:472:ALA:HA	1.91	0.51
2:X:161:PRO:O	2:X:186:LYS:HB3	2.11	0.51
2:X:595:ASN:CB	2:X:601:ILE:HD12	2.40	0.51
2:X:630:GLN:HE21	2:X:636:ASN:H	1.56	0.51
2:Y:408:SER:CB	2:Y:451:ASP:HB3	2.39	0.51
2:Y:617:VAL:HG23	2:Y:619:ASP:O	2.11	0.51
2:Z:228:GLY:HA2	2:Z:345:SER:N	2.25	0.51
2:Z:352:ALA:O	2:Z:355:LEU:HB2	2.11	0.51
2:Z:582:SER:O	2:Z:583:SER:HB3	2.11	0.51
2:Z:605:ARG:HD3	2:Z:608:CYS:SG	2.50	0.51
2:Z:605:ARG:O	2:Z:609:ASP:HB2	2.10	0.51
2:Z:617:VAL:HG23	2:Z:619:ASP:O	2.11	0.51
1:A:124:THR:CG2	1:A:130:MET:HG2	2.40	0.51
2:V:511:GLN:HA	2:V:511:GLN:HE21	1.75	0.51
2:W:30:ALA:HB3	2:W:359:TRP:CD2	2.46	0.51
2:X:605:ARG:O	2:X:609:ASP:HB2	2.10	0.51
2:X:617:VAL:HG23	2:X:619:ASP:O	2.10	0.51
2:Y:627:PHE:CD1	2:Y:629:ILE:CD1	2.94	0.51
2:U:450:ILE:CG1	2:U:451:ASP:N	2.53	0.51
2:U:511:GLN:HA	2:U:511:GLN:HE21	1.76	0.51
2:V:237:GLU:HG3	2:V:337:ILE:CD1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:582:SER:O	2:V:583:SER:HB3	2.11	0.51
2:V:605:ARG:HD3	2:V:608:CYS:SG	2.51	0.51
2:W:539:LYS:HD3	2:W:541:ALA:HB2	1.92	0.51
2:X:70:ASN:HB3	2:X:457:GLN:HE22	1.76	0.51
2:X:352:ALA:O	2:X:355:LEU:HB2	2.11	0.51
2:X:496:ARG:N	2:X:534:VAL:HG11	2.25	0.51
1:B:157:ILE:CG1	2:V:579:PHE:CD2	2.79	0.51
2:V:300:GLY:O	2:V:302:LYS:HG3	2.11	0.51
2:V:391:LYS:HE3	2:V:441:PHE:HA	1.93	0.51
2:V:399:VAL:O	2:V:399:VAL:HG12	2.09	0.51
2:V:450:ILE:HD13	2:V:522:ILE:CD1	2.41	0.51
2:Y:30:ALA:HB3	2:Y:359:TRP:CD2	2.46	0.51
2:Y:254:ILE:HG12	2:Y:337:ILE:HB	1.93	0.51
2:Z:30:ALA:HB3	2:Z:359:TRP:CD2	2.46	0.51
1:E:114:ILE:HG12	1:E:115:LYS:H	1.76	0.50
2:U:617:VAL:HG23	2:U:619:ASP:O	2.10	0.50
2:U:627:PHE:CD1	2:U:629:ILE:CD1	2.95	0.50
2:V:407:CYS:N	2:V:449:ALA:O	2.44	0.50
2:W:582:SER:O	2:W:583:SER:HB3	2.10	0.50
2:X:29:LEU:O	2:X:80:VAL:HA	2.10	0.50
2:X:254:ILE:HG12	2:X:337:ILE:HB	1.93	0.50
2:Y:583:SER:CA	2:Y:586:THR:HG22	2.42	0.50
2:Z:391:LYS:HE3	2:Z:441:PHE:HA	1.93	0.50
2:U:23:SER:OG	2:U:483:ASN:HB2	2.04	0.50
2:U:595:ASN:CB	2:U:601:ILE:HD12	2.40	0.50
2:V:215:LYS:CE	2:V:329:ASN:HD21	2.24	0.50
2:V:588:THR:HG23	2:V:589:ALA:N	2.27	0.50
2:V:617:VAL:HG23	2:V:619:ASP:O	2.11	0.50
2:W:450:ILE:HD13	2:W:522:ILE:CD1	2.41	0.50
2:W:605:ARG:HD3	2:W:608:CYS:SG	2.51	0.50
2:X:518:TYR:O	2:X:519:GLN:HB3	2.10	0.50
2:X:543:SER:O	2:X:544:VAL:HG23	2.12	0.50
2:Y:25:GLY:HA2	2:Y:484:VAL:HG21	1.93	0.50
2:Y:161:PRO:O	2:Y:186:LYS:HB3	2.11	0.50
2:Y:178:LEU:CD2	2:Y:178:LEU:N	2.66	0.50
2:Y:450:ILE:HD13	2:Y:522:ILE:CD1	2.42	0.50
2:Y:453:ASN:HD22	2:Y:453:ASN:H	1.58	0.50
2:Z:237:GLU:HG3	2:Z:337:ILE:CD1	2.41	0.50
1:E:66:ALA:C	1:E:68:VAL:H	2.13	0.50
1:E:124:THR:CG2	1:E:130:MET:HG2	2.41	0.50
2:U:560:LEU:HD13	2:U:591:TYR:HE2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:543:SER:O	2:V:544:VAL:HG23	2.11	0.50
2:V:627:PHE:CD1	2:V:629:ILE:CD1	2.94	0.50
2:W:25:GLY:HA2	2:W:484:VAL:HG21	1.93	0.50
2:W:194:LEU:HD23	2:W:195:LEU:N	2.26	0.50
2:W:511:GLN:HA	2:W:511:GLN:HE21	1.76	0.50
2:W:517:LEU:CD2	2:W:524:PRO:HB3	2.39	0.50
2:X:588:THR:HG23	2:X:589:ALA:N	2.27	0.50
2:Y:496:ARG:N	2:Y:534:VAL:HG11	2.25	0.50
2:Y:496:ARG:O	2:Y:496:ARG:CG	2.59	0.50
2:Z:454:TYR:HE2	2:Z:469:PRO:HB3	1.76	0.50
2:Z:543:SER:O	2:Z:544:VAL:HG23	2.11	0.50
1:C:19:ASP:HA	1:C:22:SER:HB2	1.93	0.50
2:V:517:LEU:CD2	2:V:524:PRO:HB3	2.39	0.50
2:V:622:GLU:HG2	2:V:644:ALA:O	2.12	0.50
2:W:560:LEU:HD13	2:W:591:TYR:HE2	1.76	0.50
2:X:220:PRO:HD2	2:X:338:LEU:HD11	1.94	0.50
2:X:453:ASN:H	2:X:453:ASN:HD22	1.58	0.50
2:X:582:SER:O	2:X:583:SER:HB3	2.11	0.50
2:X:627:PHE:CD1	2:X:629:ILE:CD1	2.94	0.50
2:X:627:PHE:CE1	2:X:629:ILE:HD12	2.47	0.50
2:Y:228:GLY:HA2	2:Y:345:SER:CB	2.32	0.50
2:Y:557:PHE:CE1	2:Y:638:ILE:HG22	2.47	0.50
2:Z:627:PHE:CD1	2:Z:629:ILE:CD1	2.95	0.50
1:D:223:LEU:HD12	1:D:224:PRO:HD2	1.92	0.50
2:U:627:PHE:CE1	2:U:629:ILE:HD12	2.47	0.50
2:V:30:ALA:HB3	2:V:359:TRP:CD2	2.46	0.50
2:V:161:PRO:O	2:V:186:LYS:HB3	2.11	0.50
2:V:454:TYR:HE2	2:V:469:PRO:HB3	1.76	0.50
2:W:29:LEU:O	2:W:80:VAL:HA	2.10	0.50
2:W:300:GLY:O	2:W:302:LYS:HG3	2.12	0.50
2:W:622:GLU:HG2	2:W:644:ALA:O	2.12	0.50
2:W:624:VAL:CG1	2:W:643:VAL:HG12	2.42	0.50
2:X:194:LEU:HD23	2:X:195:LEU:N	2.27	0.50
2:X:446:THR:CB	2:X:542:THR:HG22	2.39	0.50
2:X:583:SER:CA	2:X:586:THR:HG22	2.42	0.50
2:Y:71:PHE:C	2:Y:71:PHE:CD2	2.85	0.50
2:Y:560:LEU:HD13	2:Y:591:TYR:HE2	1.76	0.50
2:Z:220:PRO:HD2	2:Z:338:LEU:HD11	1.94	0.50
2:Z:450:ILE:HD13	2:Z:522:ILE:CD1	2.41	0.50
2:Z:557:PHE:CE1	2:Z:638:ILE:CG2	2.95	0.50
2:Z:557:PHE:CE1	2:Z:638:ILE:HG22	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:157:ILE:HD12	2:V:579:PHE:CD2	2.47	0.50
2:U:30:ALA:HB3	2:U:359:TRP:CD2	2.46	0.50
2:U:70:ASN:HB3	2:U:457:GLN:HE22	1.76	0.50
2:U:220:PRO:HD2	2:U:338:LEU:HD11	1.93	0.50
2:W:588:THR:HG23	2:W:589:ALA:N	2.27	0.50
2:W:627:PHE:CE1	2:W:629:ILE:HD12	2.47	0.50
2:X:237:GLU:HG3	2:X:337:ILE:CD1	2.41	0.50
2:X:362:PHE:HA	2:X:368:VAL:HG21	1.94	0.50
2:X:557:PHE:CE1	2:X:638:ILE:HG22	2.47	0.50
2:Y:391:LYS:HE3	2:Y:441:PHE:HA	1.93	0.50
2:Y:557:PHE:CE2	2:Y:631:PRO:HG3	2.47	0.50
2:Y:627:PHE:CE1	2:Y:629:ILE:HD12	2.47	0.50
2:Z:71:PHE:CD2	2:Z:71:PHE:C	2.85	0.50
2:Z:300:GLY:O	2:Z:302:LYS:HG3	2.11	0.50
2:Z:627:PHE:CZ	2:Z:640:LEU:CD2	2.95	0.50
2:U:518:TYR:HE2	2:U:536:TYR:HB2	1.71	0.50
2:V:236:ILE:HD12	2:V:236:ILE:N	2.27	0.50
2:W:362:PHE:HA	2:W:368:VAL:HG21	1.94	0.50
2:W:617:VAL:HG23	2:W:619:ASP:O	2.11	0.50
2:X:622:GLU:HG2	2:X:644:ALA:O	2.12	0.50
2:Y:557:PHE:CE1	2:Y:638:ILE:CG2	2.95	0.50
2:Z:254:ILE:HG12	2:Z:337:ILE:HB	1.93	0.50
2:Z:588:THR:HG23	2:Z:589:ALA:N	2.26	0.50
1:C:66:ALA:O	1:C:68:VAL:N	2.45	0.50
2:U:407:CYS:N	2:U:449:ALA:O	2.44	0.50
2:U:539:LYS:HD3	2:U:541:ALA:HB2	1.93	0.50
2:U:543:SER:O	2:U:544:VAL:HG23	2.12	0.50
2:U:588:THR:HG23	2:U:589:ALA:N	2.27	0.50
2:W:245:ALA:C	2:W:247:GLY:H	2.15	0.50
2:W:453:ASN:H	2:W:453:ASN:HD22	1.58	0.50
2:W:557:PHE:CE1	2:W:638:ILE:HG22	2.46	0.50
2:W:627:PHE:CD1	2:W:629:ILE:CD1	2.94	0.50
2:X:236:ILE:HD12	2:X:236:ILE:N	2.27	0.50
2:X:445:SER:HB3	2:X:448:ALA:HB2	1.94	0.50
2:X:523:ASN:HD21	2:X:538:ASP:CA	2.25	0.50
2:Y:70:ASN:HB3	2:Y:457:GLN:HE22	1.77	0.50
2:Y:446:THR:CB	2:Y:542:THR:HG22	2.39	0.50
2:Y:576:ASN:HB3	2:Y:620:ARG:NH2	2.25	0.50
2:Y:582:SER:O	2:Y:583:SER:HB3	2.10	0.50
1:C:147:THR:HG23	1:C:163:ILE:HB	1.93	0.50
2:U:25:GLY:HA2	2:U:484:VAL:HG21	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:220:PRO:HD2	2:V:338:LEU:HD11	1.94	0.50
2:V:383:LEU:O	2:V:386:ALA:HB3	2.12	0.50
2:V:453:ASN:HD22	2:V:453:ASN:H	1.58	0.50
2:V:627:PHE:CZ	2:V:640:LEU:CD2	2.94	0.50
2:W:236:ILE:HD12	2:W:236:ILE:N	2.27	0.50
2:W:547:PRO:HB2	2:W:553:VAL:HG11	1.94	0.50
2:X:71:PHE:C	2:X:71:PHE:CD2	2.85	0.50
2:X:304:ILE:HG13	2:X:305:TYR:CD2	2.47	0.50
2:Y:543:SER:O	2:Y:544:VAL:HG23	2.12	0.50
2:Y:588:THR:HG23	2:Y:589:ALA:N	2.27	0.50
2:Y:605:ARG:HD3	2:Y:608:CYS:SG	2.52	0.50
2:Z:84:VAL:HG13	2:Z:89:ALA:HB2	1.93	0.50
2:Z:547:PRO:HB2	2:Z:553:VAL:HG11	1.94	0.50
2:Z:557:PHE:CE2	2:Z:631:PRO:HG3	2.47	0.50
2:Z:583:SER:CA	2:Z:586:THR:HG22	2.42	0.50
2:U:362:PHE:HA	2:U:368:VAL:HG21	1.94	0.49
2:U:583:SER:CA	2:U:586:THR:HG22	2.42	0.49
2:U:622:GLU:HG2	2:U:644:ALA:O	2.12	0.49
2:V:84:VAL:HG13	2:V:89:ALA:HB2	1.93	0.49
2:X:450:ILE:HD13	2:X:522:ILE:CD1	2.42	0.49
2:X:560:LEU:HD13	2:X:591:TYR:HE2	1.76	0.49
2:Y:220:PRO:HD2	2:Y:338:LEU:HD11	1.94	0.49
2:Z:236:ILE:HD12	2:Z:236:ILE:N	2.27	0.49
2:Z:622:GLU:HG2	2:Z:644:ALA:O	2.12	0.49
1:A:124:THR:HG23	1:A:126:TYR:H	1.77	0.49
2:W:254:ILE:HG12	2:W:337:ILE:HB	1.93	0.49
2:W:304:ILE:HG13	2:W:305:TYR:CD2	2.47	0.49
2:W:409:PRO:C	2:W:454:TYR:CE1	2.71	0.49
2:W:456:TYR:HB2	2:W:467:TRP:CZ3	2.47	0.49
2:W:627:PHE:CZ	2:W:640:LEU:CD2	2.94	0.49
2:X:289:ILE:HD12	2:X:289:ILE:N	2.24	0.49
2:Y:627:PHE:CZ	2:Y:640:LEU:CD2	2.95	0.49
2:Z:407:CYS:N	2:Z:449:ALA:O	2.45	0.49
2:Z:539:LYS:HD3	2:Z:541:ALA:HB2	1.94	0.49
2:Z:557:PHE:CZ	2:Z:638:ILE:CG2	2.94	0.49
1:B:77:LEU:HD13	1:B:120:LEU:HD23	1.94	0.49
2:U:71:PHE:C	2:U:71:PHE:CD2	2.85	0.49
2:U:161:PRO:O	2:U:186:LYS:HB3	2.11	0.49
2:U:254:ILE:HG12	2:U:337:ILE:HB	1.93	0.49
2:U:300:GLY:O	2:U:302:LYS:HG3	2.12	0.49
2:V:557:PHE:CZ	2:V:638:ILE:CG2	2.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:220:PRO:HD2	2:W:338:LEU:HD11	1.94	0.49
2:X:245:ALA:C	2:X:247:GLY:H	2.16	0.49
2:X:627:PHE:CZ	2:X:640:LEU:CD2	2.95	0.49
2:X:627:PHE:CD1	2:X:629:ILE:HD12	2.48	0.49
2:Y:236:ILE:HD12	2:Y:236:ILE:N	2.27	0.49
2:Y:304:ILE:HG13	2:Y:305:TYR:CD2	2.48	0.49
2:Y:595:ASN:CB	2:Y:601:ILE:HD12	2.39	0.49
2:Z:161:PRO:O	2:Z:186:LYS:HB3	2.11	0.49
2:Z:228:GLY:HA2	2:Z:345:SER:CB	2.32	0.49
2:Z:627:PHE:CE1	2:Z:629:ILE:HD12	2.47	0.49
1:A:157:ILE:N	2:U:579:PHE:CG	2.72	0.49
2:U:557:PHE:CE1	2:U:638:ILE:CG2	2.95	0.49
2:W:627:PHE:CD1	2:W:629:ILE:HD12	2.48	0.49
2:X:518:TYR:HE2	2:X:536:TYR:HB2	1.70	0.49
2:X:547:PRO:HB2	2:X:553:VAL:HG11	1.94	0.49
2:X:557:PHE:CE1	2:X:638:ILE:CG2	2.95	0.49
2:Y:511:GLN:HA	2:Y:511:GLN:HE21	1.76	0.49
2:Y:627:PHE:CD1	2:Y:629:ILE:HD12	2.47	0.49
1:B:6:TYR:CD2	1:B:208:LEU:HG	2.48	0.49
1:B:74:ARG:NH2	1:B:231:GLU:OE2	2.43	0.49
2:U:109:ASN:O	2:U:177:GLY:HA3	2.13	0.49
2:U:450:ILE:HD13	2:U:522:ILE:CD1	2.41	0.49
2:U:557:PHE:CE1	2:U:638:ILE:HG22	2.47	0.49
2:V:254:ILE:HG12	2:V:337:ILE:HB	1.93	0.49
2:V:557:PHE:CE2	2:V:631:PRO:HG3	2.47	0.49
2:W:70:ASN:HB3	2:W:457:GLN:HE22	1.76	0.49
2:W:382:SER:CB	2:W:385:THR:HG22	2.42	0.49
2:W:543:SER:O	2:W:544:VAL:HG23	2.11	0.49
2:X:300:GLY:O	2:X:302:LYS:HG3	2.11	0.49
2:Y:300:GLY:O	2:Y:302:LYS:HG3	2.12	0.49
2:Y:379:ALA:HB2	2:Y:454:TYR:CE2	2.46	0.49
2:Y:547:PRO:HB2	2:Y:553:VAL:HG11	1.93	0.49
2:Z:511:GLN:HA	2:Z:511:GLN:NE2	2.28	0.49
2:V:627:PHE:CD1	2:V:629:ILE:HD12	2.48	0.49
2:V:627:PHE:CE1	2:V:629:ILE:HD12	2.48	0.49
2:W:237:GLU:HG3	2:W:337:ILE:CD1	2.41	0.49
2:X:383:LEU:O	2:X:386:ALA:HB3	2.13	0.49
2:X:448:ALA:CB	2:X:540:THR:OG1	2.61	0.49
1:E:12:ARG:NH2	1:E:199:TYR:OH	2.45	0.49
2:U:236:ILE:HD12	2:U:236:ILE:N	2.28	0.49
2:U:245:ALA:C	2:U:247:GLY:H	2.16	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:304:ILE:HG13	2:U:305:TYR:CD2	2.46	0.49
2:U:557:PHE:CE2	2:U:631:PRO:HG3	2.47	0.49
2:U:627:PHE:CD1	2:U:629:ILE:HD12	2.48	0.49
2:V:71:PHE:C	2:V:71:PHE:CD2	2.85	0.49
2:V:109:ASN:O	2:V:177:GLY:HA3	2.13	0.49
2:V:539:LYS:HD3	2:V:541:ALA:HB2	1.93	0.49
2:V:557:PHE:CE1	2:V:638:ILE:HG22	2.47	0.49
2:V:557:PHE:CE1	2:V:638:ILE:CG2	2.95	0.49
2:V:576:ASN:HB3	2:V:620:ARG:NH2	2.25	0.49
2:V:624:VAL:CG1	2:V:643:VAL:HG12	2.42	0.49
2:W:71:PHE:C	2:W:71:PHE:CD2	2.85	0.49
2:X:511:GLN:HA	2:X:511:GLN:NE2	2.28	0.49
2:X:624:VAL:CG1	2:X:643:VAL:HG12	2.42	0.49
2:Z:453:ASN:H	2:Z:453:ASN:ND2	2.11	0.49
2:U:215:LYS:CE	2:U:329:ASN:HD21	2.26	0.49
2:V:304:ILE:HG13	2:V:305:TYR:CD2	2.47	0.49
2:V:547:PRO:HB2	2:V:553:VAL:HG11	1.93	0.49
2:V:583:SER:CA	2:V:586:THR:HG22	2.41	0.49
2:W:215:LYS:CE	2:W:329:ASN:HD21	2.25	0.49
2:W:557:PHE:CE1	2:W:638:ILE:CG2	2.95	0.49
2:W:583:SER:CA	2:W:586:THR:HG22	2.42	0.49
2:X:456:TYR:HB2	2:X:467:TRP:CZ3	2.48	0.49
2:Y:622:GLU:HG2	2:Y:644:ALA:O	2.12	0.49
2:U:627:PHE:CZ	2:U:640:LEU:CD2	2.95	0.49
2:V:70:ASN:HB3	2:V:457:GLN:HE22	1.77	0.49
2:V:245:ALA:C	2:V:247:GLY:H	2.15	0.49
2:W:523:ASN:HD21	2:W:538:ASP:CA	2.25	0.49
2:W:615:PRO:O	2:W:617:VAL:HG22	2.13	0.49
2:X:215:LYS:CE	2:X:329:ASN:HD21	2.25	0.49
1:B:156:ASP:HB3	2:V:579:PHE:HE1	0.80	0.49
2:U:496:ARG:O	2:U:496:ARG:CG	2.60	0.49
2:W:557:PHE:CE2	2:W:631:PRO:HG3	2.47	0.49
2:X:557:PHE:CE2	2:X:631:PRO:HG3	2.47	0.49
2:Y:456:TYR:HB2	2:Y:467:TRP:CZ3	2.48	0.49
2:Z:70:ASN:HB3	2:Z:457:GLN:HE22	1.77	0.49
2:Z:362:PHE:HA	2:Z:368:VAL:HG21	1.95	0.49
2:Z:383:LEU:O	2:Z:386:ALA:HB3	2.13	0.49
2:U:383:LEU:O	2:U:386:ALA:HB3	2.13	0.48
2:U:629:ILE:HG22	2:U:630:GLN:N	2.28	0.48
2:W:376:GLY:HA2	2:W:390:GLN:NE2	2.27	0.48
2:Y:383:LEU:O	2:Y:386:ALA:HB3	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:109:TYR:HB3	1:B:161:ARG:NH2	2.20	0.48
1:C:110:ASN:HA	1:C:111:PRO:HD3	1.71	0.48
2:U:376:GLY:HA2	2:U:390:GLN:NE2	2.28	0.48
2:U:615:PRO:O	2:U:617:VAL:HG22	2.13	0.48
2:W:109:ASN:O	2:W:177:GLY:HA3	2.13	0.48
2:W:408:SER:HA	2:W:451:ASP:O	2.13	0.48
2:Y:376:GLY:HA2	2:Y:390:GLN:NE2	2.28	0.48
2:Y:445:SER:HB3	2:Y:448:ALA:HB2	1.95	0.48
2:Z:304:ILE:HG13	2:Z:305:TYR:CD2	2.47	0.48
2:Z:523:ASN:HD21	2:Z:538:ASP:CA	2.26	0.48
2:Z:629:ILE:HG22	2:Z:630:GLN:N	2.28	0.48
1:B:212:THR:HA	1:B:222:ASP:HA	1.94	0.48
1:F:54:ASN:HA	1:F:57:THR:HG22	1.96	0.48
2:U:577:ASN:H	2:U:580:THR:CG2	2.26	0.48
2:V:448:ALA:CB	2:V:540:THR:OG1	2.62	0.48
2:W:383:LEU:O	2:W:386:ALA:HB3	2.14	0.48
2:W:448:ALA:O	2:W:540:THR:N	2.42	0.48
2:X:109:ASN:O	2:X:177:GLY:HA3	2.13	0.48
2:X:379:ALA:HB2	2:X:454:TYR:CE2	2.46	0.48
2:Y:407:CYS:N	2:Y:449:ALA:O	2.44	0.48
2:Y:408:SER:HA	2:Y:451:ASP:O	2.13	0.48
2:Z:624:VAL:CG1	2:Z:643:VAL:HG12	2.42	0.48
2:Z:627:PHE:CD1	2:Z:629:ILE:HD12	2.48	0.48
2:U:624:VAL:CG1	2:U:643:VAL:HG12	2.42	0.48
2:W:407:CYS:N	2:W:449:ALA:O	2.44	0.48
2:W:445:SER:HB3	2:W:448:ALA:HB2	1.95	0.48
2:W:456:TYR:CZ	2:W:465:ASN:HB3	2.48	0.48
2:X:25:GLY:HA2	2:X:484:VAL:HG21	1.93	0.48
2:X:376:GLY:HA2	2:X:390:GLN:NE2	2.28	0.48
2:Y:511:GLN:HA	2:Y:511:GLN:NE2	2.28	0.48
2:Z:63:ASP:O	2:Z:67:SER:HB2	2.14	0.48
2:Z:109:ASN:O	2:Z:177:GLY:HA3	2.13	0.48
2:Z:413:THR:OG1	2:Z:425:ASN:HB3	2.14	0.48
2:Z:448:ALA:CB	2:Z:540:THR:OG1	2.61	0.48
1:D:147:THR:HG23	1:D:163:ILE:HB	1.94	0.48
1:D:157:ILE:HG13	2:X:579:PHE:CG	2.48	0.48
2:U:440:ASN:C	2:U:440:ASN:HD22	2.17	0.48
2:U:453:ASN:H	2:U:453:ASN:ND2	2.11	0.48
2:V:362:PHE:HA	2:V:368:VAL:HG21	1.95	0.48
2:V:376:GLY:HA2	2:V:390:GLN:NE2	2.28	0.48
2:X:615:PRO:O	2:X:617:VAL:HG22	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y:362:PHE:HA	2:Y:368:VAL:HG21	1.94	0.48
2:Z:379:ALA:HB2	2:Z:454:TYR:CE2	2.46	0.48
2:Z:445:SER:HB3	2:Z:448:ALA:HB2	1.94	0.48
2:U:63:ASP:O	2:U:67:SER:HB2	2.14	0.48
2:U:408:SER:HA	2:U:451:ASP:O	2.13	0.48
2:V:440:ASN:C	2:V:440:ASN:HD22	2.17	0.48
2:X:407:CYS:N	2:X:449:ALA:O	2.44	0.48
2:X:413:THR:OG1	2:X:425:ASN:HB3	2.13	0.48
2:Y:63:ASP:O	2:Y:67:SER:HB2	2.14	0.48
2:Y:453:ASN:H	2:Y:453:ASN:ND2	2.11	0.48
2:Y:523:ASN:HD21	2:Y:538:ASP:CA	2.26	0.48
2:Z:376:GLY:HA2	2:Z:390:GLN:NE2	2.28	0.48
2:Z:408:SER:HA	2:Z:451:ASP:O	2.14	0.48
2:Z:615:PRO:O	2:Z:617:VAL:HG22	2.13	0.48
2:W:125:ILE:HD12	2:W:153:LYS:HG2	1.96	0.48
2:W:576:ASN:HB3	2:W:620:ARG:NH2	2.25	0.48
2:X:382:SER:CB	2:X:385:THR:HG22	2.42	0.48
2:Y:109:ASN:O	2:Y:177:GLY:HA3	2.12	0.48
2:Z:440:ASN:C	2:Z:440:ASN:HD22	2.17	0.48
2:Z:496:ARG:O	2:Z:496:ARG:CG	2.60	0.48
2:Z:536:TYR:CG	2:Z:537:GLY:N	2.82	0.48
2:U:448:ALA:CB	2:U:540:THR:OG1	2.61	0.48
2:U:456:TYR:HB2	2:U:467:TRP:CZ3	2.48	0.48
2:V:228:GLY:HA2	2:V:345:SER:CB	2.32	0.48
2:V:615:PRO:O	2:V:617:VAL:HG22	2.13	0.48
2:W:63:ASP:O	2:W:67:SER:HB2	2.14	0.48
2:W:448:ALA:CB	2:W:540:THR:OG1	2.61	0.48
2:W:561:LYS:HG3	2:W:562:THR:N	2.29	0.48
2:X:63:ASP:O	2:X:67:SER:HB2	2.14	0.48
2:Y:30:ALA:HB3	2:Y:359:TRP:CE2	2.49	0.48
2:Y:624:VAL:CG1	2:Y:643:VAL:HG12	2.43	0.48
1:D:6:TYR:CD2	1:D:208:LEU:HG	2.49	0.48
2:U:511:GLN:HA	2:U:511:GLN:NE2	2.28	0.48
2:U:523:ASN:HD21	2:U:538:ASP:CA	2.26	0.48
2:V:449:ALA:CB	2:V:539:LYS:HA	2.44	0.48
2:V:511:GLN:HA	2:V:511:GLN:NE2	2.28	0.48
2:V:523:ASN:HD21	2:V:538:ASP:CA	2.26	0.48
2:V:553:VAL:HG23	2:V:554:ARG:N	2.29	0.48
2:W:284:ARG:HA	2:W:288:ALA:O	2.14	0.48
2:W:440:ASN:HD22	2:W:440:ASN:C	2.17	0.48
2:X:284:ARG:HA	2:X:288:ALA:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:408:SER:HA	2:X:451:ASP:O	2.14	0.48
2:Y:245:ALA:C	2:Y:247:GLY:H	2.16	0.48
2:Y:629:ILE:HG22	2:Y:630:GLN:N	2.28	0.48
2:Z:30:ALA:HB3	2:Z:359:TRP:CE2	2.49	0.48
2:V:453:ASN:N	2:V:453:ASN:ND2	2.62	0.48
2:V:502:VAL:HG12	2:V:503:ILE:N	2.29	0.48
2:W:557:PHE:CZ	2:W:638:ILE:CG2	2.95	0.48
2:X:58:THR:H	2:X:61:THR:HB	1.79	0.48
2:X:449:ALA:CB	2:X:539:LYS:HA	2.44	0.48
2:X:576:ASN:HB3	2:X:620:ARG:NH2	2.25	0.48
2:Z:284:ARG:HA	2:Z:288:ALA:O	2.14	0.48
1:C:130:MET:HE2	1:C:188:TRP:CD2	2.49	0.47
1:C:156:ASP:HB3	2:W:579:PHE:CD1	2.40	0.47
2:V:456:TYR:CZ	2:V:465:ASN:HB3	2.49	0.47
2:V:456:TYR:HB2	2:V:467:TRP:CZ3	2.48	0.47
2:W:612:ASN:HD21	2:W:614:THR:HG22	1.79	0.47
2:X:456:TYR:CZ	2:X:465:ASN:HB3	2.49	0.47
2:Y:125:ILE:HD12	2:Y:153:LYS:HG2	1.96	0.47
2:Z:382:SER:CB	2:Z:385:THR:HG22	2.42	0.47
2:Z:453:ASN:ND2	2:Z:453:ASN:N	2.62	0.47
2:Z:496:ARG:N	2:Z:534:VAL:HG11	2.25	0.47
1:C:124:THR:HG21	1:C:130:MET:HG2	1.95	0.47
2:U:448:ALA:O	2:U:540:THR:N	2.42	0.47
2:U:502:VAL:HG12	2:U:503:ILE:N	2.29	0.47
2:U:536:TYR:CG	2:U:537:GLY:N	2.82	0.47
2:U:547:PRO:HB2	2:U:553:VAL:HG11	1.94	0.47
2:V:30:ALA:HB3	2:V:359:TRP:CE2	2.49	0.47
2:V:408:SER:HA	2:V:451:ASP:O	2.14	0.47
2:W:518:TYR:HE2	2:W:536:TYR:HB2	1.70	0.47
2:X:407:CYS:O	2:X:451:ASP:N	2.48	0.47
2:X:440:ASN:C	2:X:440:ASN:HD22	2.17	0.47
2:Y:58:THR:H	2:Y:61:THR:HB	1.80	0.47
2:Y:440:ASN:HD22	2:Y:440:ASN:C	2.17	0.47
2:Y:577:ASN:H	2:Y:580:THR:CG2	2.27	0.47
2:Z:125:ILE:HD12	2:Z:153:LYS:HG2	1.96	0.47
2:V:58:THR:H	2:V:61:THR:HB	1.79	0.47
2:V:285:ARG:O	2:V:286:ASN:HB2	2.14	0.47
2:V:629:ILE:HG22	2:V:630:GLN:N	2.28	0.47
2:W:30:ALA:HB3	2:W:359:TRP:CE2	2.49	0.47
2:W:58:THR:H	2:W:61:THR:HB	1.80	0.47
2:X:30:ALA:HB3	2:X:359:TRP:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:502:VAL:HG12	2:X:503:ILE:N	2.30	0.47
2:X:536:TYR:CG	2:X:537:GLY:N	2.82	0.47
2:X:536:TYR:CD2	2:X:537:GLY:N	2.83	0.47
2:X:629:ILE:HG22	2:X:630:GLN:N	2.28	0.47
2:Y:448:ALA:CB	2:Y:540:THR:OG1	2.62	0.47
2:U:526:THR:OG1	2:U:535:LEU:HD21	2.15	0.47
2:W:453:ASN:H	2:W:453:ASN:ND2	2.11	0.47
2:W:453:ASN:ND2	2:W:453:ASN:N	2.62	0.47
2:W:536:TYR:CD2	2:W:537:GLY:N	2.83	0.47
2:X:450:ILE:CG1	2:X:451:ASP:N	2.53	0.47
2:X:453:ASN:H	2:X:453:ASN:ND2	2.11	0.47
2:Y:284:ARG:HA	2:Y:288:ALA:O	2.13	0.47
2:Y:382:SER:CB	2:Y:385:THR:HG22	2.42	0.47
2:Y:553:VAL:HG23	2:Y:554:ARG:N	2.29	0.47
2:Z:350:VAL:HG13	2:Z:354:ASP:HB2	1.97	0.47
2:Z:553:VAL:HG23	2:Z:554:ARG:N	2.29	0.47
2:Z:577:ASN:H	2:Z:580:THR:CG2	2.27	0.47
1:E:5:PHE:CE2	1:E:201:PRO:HB3	2.50	0.47
1:E:147:THR:HG23	1:E:163:ILE:HB	1.97	0.47
2:U:284:ARG:HA	2:U:288:ALA:O	2.14	0.47
2:U:449:ALA:CB	2:U:539:LYS:HA	2.44	0.47
2:U:456:TYR:CZ	2:U:465:ASN:HB3	2.49	0.47
2:V:63:ASP:O	2:V:67:SER:HB2	2.14	0.47
2:V:125:ILE:HD12	2:V:153:LYS:HG2	1.97	0.47
2:V:536:TYR:CG	2:V:537:GLY:N	2.82	0.47
2:V:577:ASN:H	2:V:580:THR:CG2	2.27	0.47
2:W:627:PHE:HZ	2:W:640:LEU:CD2	2.28	0.47
2:X:453:ASN:ND2	2:X:453:ASN:N	2.62	0.47
2:X:553:VAL:HG23	2:X:554:ARG:N	2.29	0.47
2:Y:215:LYS:CE	2:Y:329:ASN:HD21	2.26	0.47
2:Y:407:CYS:O	2:Y:451:ASP:N	2.48	0.47
2:Y:526:THR:OG1	2:Y:535:LEU:HD21	2.15	0.47
2:Y:536:TYR:CG	2:Y:537:GLY:N	2.82	0.47
2:Y:612:ASN:HD21	2:Y:614:THR:HG22	1.79	0.47
2:Z:27:ALA:HB2	2:Z:71:PHE:CZ	2.50	0.47
2:Z:245:ALA:C	2:Z:247:GLY:H	2.16	0.47
1:E:167:LEU:HD11	1:E:190:LEU:HD12	1.96	0.47
2:U:30:ALA:HB3	2:U:359:TRP:CE2	2.49	0.47
2:U:125:ILE:HD12	2:U:153:LYS:HG2	1.97	0.47
2:V:284:ARG:HA	2:V:288:ALA:O	2.14	0.47
2:W:577:ASN:H	2:W:580:THR:CG2	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:557:PHE:CZ	2:X:638:ILE:CG2	2.95	0.47
2:Y:456:TYR:CZ	2:Y:465:ASN:HB3	2.49	0.47
2:Y:502:VAL:HG12	2:Y:503:ILE:N	2.29	0.47
2:Y:561:LYS:HG3	2:Y:562:THR:N	2.30	0.47
2:Z:456:TYR:HB2	2:Z:467:TRP:CZ3	2.49	0.47
1:A:114:ILE:HG12	1:A:115:LYS:N	2.29	0.47
2:U:58:THR:H	2:U:61:THR:HB	1.79	0.47
2:U:413:THR:OG1	2:U:425:ASN:HB3	2.14	0.47
2:U:445:SER:HB3	2:U:448:ALA:HB2	1.95	0.47
2:U:561:LYS:HG3	2:U:562:THR:N	2.30	0.47
2:V:445:SER:HB3	2:V:448:ALA:HB2	1.95	0.47
2:V:453:ASN:H	2:V:453:ASN:ND2	2.12	0.47
2:W:379:ALA:HB2	2:W:454:TYR:CE2	2.45	0.47
2:W:407:CYS:O	2:W:451:ASP:N	2.48	0.47
2:W:413:THR:OG1	2:W:425:ASN:HB3	2.14	0.47
2:W:511:GLN:HA	2:W:511:GLN:NE2	2.29	0.47
2:W:526:THR:OG1	2:W:535:LEU:HD21	2.15	0.47
2:W:547:PRO:C	2:W:553:VAL:CG2	2.82	0.47
2:W:553:VAL:HG23	2:W:554:ARG:N	2.30	0.47
2:X:285:ARG:O	2:X:286:ASN:HB2	2.14	0.47
2:X:409:PRO:C	2:X:454:TYR:CE1	2.71	0.47
2:Y:411:ARG:O	2:Y:412:GLU:C	2.53	0.47
2:Y:413:THR:OG1	2:Y:425:ASN:HB3	2.14	0.47
2:Y:546:SER:N	2:Y:547:PRO:HD2	2.30	0.47
2:Y:615:PRO:O	2:Y:617:VAL:HG22	2.13	0.47
2:Z:171:ILE:CG2	2:Z:172:SER:H	2.25	0.47
2:Z:411:ARG:O	2:Z:412:GLU:C	2.53	0.47
2:Z:449:ALA:CB	2:Z:539:LYS:HA	2.44	0.47
2:Z:502:VAL:HG12	2:Z:503:ILE:N	2.30	0.47
2:Z:560:LEU:HD12	2:Z:592:LEU:CD2	2.45	0.47
2:Z:561:LYS:HG3	2:Z:562:THR:N	2.30	0.47
2:U:285:ARG:O	2:U:286:ASN:HB2	2.14	0.47
2:U:612:ASN:HD21	2:U:614:THR:HG22	1.79	0.47
2:U:614:THR:HB	2:U:620:ARG:CA	2.40	0.47
2:V:526:THR:OG1	2:V:535:LEU:HD21	2.15	0.47
2:W:621:ASN:CG	2:W:622:GLU:H	2.18	0.47
2:W:629:ILE:HG22	2:W:630:GLN:N	2.28	0.47
2:X:526:THR:OG1	2:X:535:LEU:HD21	2.15	0.47
2:X:612:ASN:HD21	2:X:614:THR:HG22	1.80	0.47
2:Z:526:THR:OG1	2:Z:535:LEU:HD21	2.15	0.47
2:Z:602:TYR:CG	2:Z:603:GLU:N	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:130:MET:HE2	1:E:188:TRP:CD2	2.50	0.47
2:U:37:PRO:HB2	2:U:40:GLN:HB2	1.97	0.47
2:U:62:ALA:HB1	2:U:466:ARG:NE	2.30	0.47
2:U:350:VAL:HG13	2:U:354:ASP:HB2	1.97	0.47
2:V:536:TYR:CD2	2:V:537:GLY:N	2.83	0.47
2:V:560:LEU:HD12	2:V:592:LEU:CD2	2.45	0.47
2:V:561:LYS:HG3	2:V:562:THR:N	2.29	0.47
2:V:610:THR:HG23	2:V:611:THR:N	2.30	0.47
2:V:614:THR:HB	2:V:620:ARG:CA	2.40	0.47
2:X:27:ALA:HB2	2:X:71:PHE:CZ	2.49	0.47
2:X:577:ASN:H	2:X:580:THR:CG2	2.27	0.47
2:X:610:THR:HG23	2:X:611:THR:N	2.29	0.47
2:Y:293:VAL:HG22	2:Y:294:VAL:N	2.30	0.47
2:Y:514:ARG:CA	2:Y:517:LEU:HG	2.45	0.47
2:Y:536:TYR:CD2	2:Y:537:GLY:N	2.83	0.47
2:Z:66:MET:HA	2:Z:66:MET:HE3	1.97	0.47
2:Z:514:ARG:CA	2:Z:517:LEU:HG	2.45	0.47
2:Z:546:SER:N	2:Z:547:PRO:HD2	2.30	0.47
2:Z:610:THR:HG23	2:Z:611:THR:N	2.29	0.47
2:U:228:GLY:HA2	2:U:345:SER:CB	2.31	0.47
2:U:382:SER:CB	2:U:385:THR:HG22	2.42	0.47
2:U:407:CYS:O	2:U:451:ASP:N	2.48	0.47
2:U:610:THR:HG23	2:U:611:THR:N	2.29	0.47
2:V:62:ALA:HB1	2:V:466:ARG:NE	2.30	0.47
2:X:27:ALA:HB3	2:X:78:LEU:HD12	1.97	0.47
2:X:561:LYS:HG3	2:X:562:THR:N	2.30	0.47
2:Y:350:VAL:HG13	2:Y:354:ASP:HB2	1.97	0.47
2:Y:449:ALA:CB	2:Y:539:LYS:HA	2.45	0.47
2:Y:450:ILE:CG1	2:Y:451:ASP:N	2.53	0.47
2:Y:499:ILE:HD13	2:Y:499:ILE:N	2.28	0.47
2:Z:58:THR:H	2:Z:61:THR:HB	1.80	0.47
2:Z:215:LYS:CE	2:Z:329:ASN:HD21	2.25	0.47
2:U:536:TYR:CD2	2:U:537:GLY:N	2.83	0.46
2:W:514:ARG:CA	2:W:517:LEU:HG	2.45	0.46
2:W:536:TYR:CG	2:W:537:GLY:N	2.82	0.46
2:W:536:TYR:HD2	2:W:538:ASP:H	1.63	0.46
2:W:610:THR:HG23	2:W:611:THR:N	2.30	0.46
2:X:602:TYR:CG	2:X:603:GLU:N	2.83	0.46
2:Y:62:ALA:HB1	2:Y:466:ARG:NE	2.30	0.46
2:Y:448:ALA:O	2:Y:540:THR:N	2.41	0.46
2:Y:610:THR:HG23	2:Y:611:THR:N	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:56:GLN:HA	2:Z:57:PRO:HD3	1.81	0.46
2:Z:62:ALA:HB1	2:Z:466:ARG:NE	2.30	0.46
2:Z:456:TYR:CZ	2:Z:465:ASN:HB3	2.49	0.46
1:C:27:LYS:HB2	1:C:36:PHE:CE2	2.50	0.46
2:U:27:ALA:HB2	2:U:71:PHE:CZ	2.50	0.46
2:V:350:VAL:HG13	2:V:354:ASP:HB2	1.97	0.46
2:V:413:THR:OG1	2:V:425:ASN:HB3	2.14	0.46
2:W:450:ILE:CG1	2:W:451:ASP:N	2.53	0.46
2:Y:27:ALA:HB2	2:Y:71:PHE:CZ	2.50	0.46
2:Y:602:TYR:CG	2:Y:603:GLU:N	2.83	0.46
2:Z:499:ILE:HD13	2:Z:499:ILE:N	2.28	0.46
1:E:6:TYR:CD2	1:E:208:LEU:HG	2.51	0.46
1:F:56:TRP:HB3	1:F:71:ILE:HD13	1.98	0.46
2:U:100:GLU:HG2	2:U:186:LYS:O	2.16	0.46
2:V:100:GLU:HG2	2:V:186:LYS:O	2.16	0.46
2:V:627:PHE:HZ	2:V:640:LEU:CD2	2.29	0.46
2:W:71:PHE:C	2:W:73:GLN:N	2.69	0.46
2:W:100:GLU:HG2	2:W:186:LYS:O	2.16	0.46
2:W:285:ARG:O	2:W:286:ASN:HB2	2.14	0.46
2:X:514:ARG:CA	2:X:517:LEU:HG	2.45	0.46
2:X:536:TYR:HD2	2:X:538:ASP:H	1.63	0.46
2:X:570:TYR:CD2	2:X:584:PHE:CE2	2.95	0.46
2:Y:290:VAL:HG11	2:Y:322:TYR:CD1	2.51	0.46
2:Y:517:LEU:HB2	2:Y:522:ILE:HG23	1.95	0.46
2:Y:560:LEU:HD12	2:Y:592:LEU:CD2	2.45	0.46
2:Z:536:TYR:CD2	2:Z:537:GLY:N	2.83	0.46
2:Z:612:ASN:HD21	2:Z:614:THR:HG22	1.80	0.46
1:D:212:THR:HA	1:D:222:ASP:HA	1.98	0.46
2:U:499:ILE:HD13	2:U:499:ILE:N	2.28	0.46
2:U:583:SER:HA	2:U:586:THR:HG22	1.98	0.46
2:V:293:VAL:HG22	2:V:294:VAL:N	2.30	0.46
2:V:411:ARG:O	2:V:412:GLU:C	2.54	0.46
2:V:612:ASN:HD21	2:V:614:THR:HG22	1.81	0.46
2:W:449:ALA:CB	2:W:539:LYS:HA	2.44	0.46
2:W:517:LEU:HB2	2:W:522:ILE:HG23	1.95	0.46
2:W:602:TYR:CG	2:W:603:GLU:N	2.83	0.46
2:X:62:ALA:HB1	2:X:466:ARG:NE	2.30	0.46
2:Y:285:ARG:O	2:Y:286:ASN:HB2	2.14	0.46
2:Z:290:VAL:HG11	2:Z:322:TYR:CD1	2.51	0.46
2:Z:407:CYS:O	2:Z:451:ASP:N	2.48	0.46
2:Z:544:VAL:CG1	2:Z:545:PRO:N	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:29:GLN:OE1	1:E:3:GLY:N	2.49	0.46
1:F:157:ILE:N	2:Z:579:PHE:CD1	2.73	0.46
2:U:546:SER:N	2:U:547:PRO:HD2	2.29	0.46
2:W:546:SER:N	2:W:547:PRO:HD2	2.30	0.46
2:W:560:LEU:HD12	2:W:592:LEU:CD2	2.45	0.46
2:X:37:PRO:HB2	2:X:40:GLN:HB2	1.97	0.46
2:X:125:ILE:HD12	2:X:153:LYS:HG2	1.97	0.46
2:X:290:VAL:HG11	2:X:322:TYR:CD1	2.50	0.46
2:X:601:ILE:HG22	2:X:602:TYR:N	2.31	0.46
2:X:614:THR:HB	2:X:620:ARG:CA	2.41	0.46
2:X:627:PHE:HZ	2:X:640:LEU:CD2	2.29	0.46
2:Y:37:PRO:HB2	2:Y:40:GLN:HB2	1.97	0.46
2:Z:285:ARG:O	2:Z:286:ASN:HB2	2.14	0.46
2:Z:293:VAL:HG22	2:Z:294:VAL:N	2.30	0.46
2:U:379:ALA:HB2	2:U:454:TYR:CE2	2.46	0.46
2:U:544:VAL:CG1	2:U:545:PRO:N	2.78	0.46
2:U:602:TYR:CG	2:U:603:GLU:N	2.83	0.46
2:V:407:CYS:O	2:V:451:ASP:N	2.48	0.46
2:V:546:SER:N	2:V:547:PRO:HD2	2.30	0.46
2:W:71:PHE:C	2:W:73:GLN:H	2.19	0.46
2:W:350:VAL:HG13	2:W:354:ASP:HB2	1.97	0.46
2:X:350:VAL:HG13	2:X:354:ASP:HB2	1.98	0.46
2:X:458:TYR:CE2	2:X:460:LYS:HA	2.51	0.46
2:Y:151:ILE:HG13	2:Y:152:ALA:N	2.31	0.46
2:Y:458:TYR:CE2	2:Y:460:LYS:HA	2.51	0.46
2:U:35:TRP:HB3	2:U:54:PHE:HA	1.98	0.46
2:V:27:ALA:HB2	2:V:71:PHE:CZ	2.50	0.46
2:V:151:ILE:HG13	2:V:152:ALA:N	2.30	0.46
2:V:518:TYR:HE2	2:V:536:TYR:HB2	1.70	0.46
2:W:27:ALA:HB2	2:W:71:PHE:CZ	2.50	0.46
2:W:37:PRO:HB2	2:W:40:GLN:HB2	1.97	0.46
2:W:411:ARG:O	2:W:412:GLU:C	2.54	0.46
2:W:502:VAL:HG12	2:W:503:ILE:N	2.29	0.46
2:X:71:PHE:C	2:X:73:GLN:H	2.19	0.46
2:X:307:SER:O	2:X:309:ILE:HG23	2.16	0.46
2:X:517:LEU:HB2	2:X:522:ILE:HG23	1.95	0.46
2:X:517:LEU:HD13	2:X:524:PRO:CG	2.46	0.46
2:X:621:ASN:CG	2:X:622:GLU:H	2.19	0.46
2:Z:71:PHE:C	2:Z:73:GLN:H	2.19	0.46
2:Z:621:ASN:CG	2:Z:622:GLU:H	2.18	0.46
1:A:5:PHE:CE2	1:A:201:PRO:HB3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:19:ASP:HA	1:D:22:SER:HB2	1.98	0.46
2:U:290:VAL:HG11	2:U:322:TYR:CD1	2.51	0.46
2:U:557:PHE:CZ	2:U:638:ILE:CG2	2.95	0.46
2:U:560:LEU:HD12	2:U:592:LEU:CD2	2.45	0.46
2:U:627:PHE:HZ	2:U:640:LEU:CD2	2.29	0.46
2:V:35:TRP:HB3	2:V:54:PHE:HA	1.98	0.46
2:V:130:LYS:O	2:V:132:THR:HG23	2.16	0.46
2:V:407:CYS:O	2:V:451:ASP:HB3	2.15	0.46
2:V:621:ASN:CG	2:V:622:GLU:H	2.19	0.46
2:X:100:GLU:HG2	2:X:186:LYS:O	2.15	0.46
2:X:151:ILE:HG13	2:X:152:ALA:N	2.30	0.46
2:X:546:SER:N	2:X:547:PRO:HD2	2.30	0.46
2:X:560:LEU:HD12	2:X:592:LEU:CD2	2.46	0.46
2:Y:27:ALA:HB3	2:Y:78:LEU:HD12	1.98	0.46
2:Y:100:GLU:HG2	2:Y:186:LYS:O	2.15	0.46
2:Y:173:SER:HA	2:Y:174:SER:HB3	1.98	0.46
2:Z:511:GLN:HE21	2:Z:511:GLN:CA	2.29	0.46
2:Z:583:SER:HA	2:Z:586:THR:HG22	1.98	0.46
2:U:517:LEU:HB2	2:U:522:ILE:HG23	1.95	0.46
2:V:73:GLN:HB3	2:V:500:LEU:HD12	1.98	0.46
2:W:283:VAL:CG2	2:W:323:ILE:HD13	2.46	0.46
2:Y:71:PHE:C	2:Y:73:GLN:H	2.19	0.46
2:Y:130:LYS:O	2:Y:132:THR:HG23	2.16	0.46
2:Y:307:SER:O	2:Y:309:ILE:HG23	2.16	0.46
2:Z:35:TRP:HB3	2:Z:54:PHE:HA	1.98	0.46
2:Z:208:VAL:HG23	2:Z:209:ASP:N	2.31	0.46
2:Z:517:LEU:HB2	2:Z:522:ILE:HG23	1.95	0.46
1:B:114:ILE:HG12	1:B:115:LYS:H	1.81	0.46
1:E:125:ARG:NH2	1:E:184:ARG:HG2	2.30	0.46
1:F:157:ILE:CB	2:Z:579:PHE:CD1	2.85	0.46
2:U:293:VAL:HG22	2:U:294:VAL:N	2.31	0.46
2:V:602:TYR:CG	2:V:603:GLU:N	2.83	0.46
2:W:35:TRP:HB3	2:W:54:PHE:HA	1.98	0.46
2:W:62:ALA:HB1	2:W:466:ARG:NE	2.31	0.46
2:W:290:VAL:HG11	2:W:322:TYR:CD1	2.51	0.46
2:W:624:VAL:HG12	2:W:643:VAL:CB	2.46	0.46
2:X:293:VAL:HG22	2:X:294:VAL:N	2.31	0.46
2:Y:73:GLN:HB3	2:Y:500:LEU:HD12	1.98	0.46
2:Y:283:VAL:CG2	2:Y:323:ILE:HD13	2.46	0.46
2:Y:526:THR:HG21	2:Y:535:LEU:HD11	1.97	0.46
2:Y:621:ASN:CG	2:Y:622:GLU:H	2.19	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:18:GLY:HA3	1:A:230:PHE:CZ	2.52	0.45
1:A:114:ILE:HG12	1:A:115:LYS:H	1.81	0.45
1:C:19:ASP:OD2	1:C:213:TYR:OH	2.25	0.45
2:U:50:LEU:HD12	2:U:51:VAL:N	2.31	0.45
2:U:151:ILE:HG13	2:U:152:ALA:N	2.30	0.45
2:U:553:VAL:HG23	2:U:554:ARG:N	2.30	0.45
2:U:621:ASN:CG	2:U:622:GLU:H	2.19	0.45
2:V:37:PRO:HB2	2:V:40:GLN:HB2	1.97	0.45
2:V:544:VAL:CG1	2:V:545:PRO:N	2.78	0.45
2:V:583:SER:HA	2:V:586:THR:HG22	1.97	0.45
2:X:526:THR:HG21	2:X:535:LEU:HD11	1.96	0.45
2:X:547:PRO:C	2:X:553:VAL:CG2	2.83	0.45
2:Z:73:GLN:HB3	2:Z:500:LEU:HD12	1.99	0.45
2:Z:130:LYS:O	2:Z:132:THR:HG23	2.16	0.45
2:Z:517:LEU:HD13	2:Z:524:PRO:CG	2.46	0.45
1:B:130:MET:HE2	1:B:188:TRP:CD2	2.51	0.45
1:C:6:TYR:CD2	1:C:208:LEU:HG	2.52	0.45
2:U:411:ARG:O	2:U:412:GLU:C	2.54	0.45
2:U:544:VAL:CG1	2:U:545:PRO:HD2	2.46	0.45
2:V:71:PHE:C	2:V:73:GLN:H	2.19	0.45
2:V:544:VAL:CG1	2:V:545:PRO:HD2	2.47	0.45
2:W:293:VAL:HG22	2:W:294:VAL:N	2.30	0.45
2:X:71:PHE:C	2:X:73:GLN:N	2.69	0.45
2:Z:100:GLU:HG2	2:Z:186:LYS:O	2.16	0.45
2:Z:614:THR:HB	2:Z:620:ARG:CA	2.41	0.45
1:B:110:ASN:HA	1:B:111:PRO:HD3	1.70	0.45
1:B:223:LEU:HD12	1:B:224:PRO:HD2	1.98	0.45
1:D:106:VAL:HG12	1:D:107:SER:H	1.80	0.45
2:U:456:TYR:CE2	2:U:503:ILE:HD11	2.52	0.45
2:U:511:GLN:HE21	2:U:511:GLN:CA	2.29	0.45
2:V:171:ILE:CG2	2:V:172:SER:N	2.79	0.45
2:V:290:VAL:HG11	2:V:322:TYR:CD1	2.51	0.45
2:V:624:VAL:HG12	2:V:643:VAL:CB	2.46	0.45
2:W:130:LYS:O	2:W:132:THR:HG23	2.17	0.45
2:W:228:GLY:HA2	2:W:345:SER:CB	2.31	0.45
2:W:307:SER:O	2:W:309:ILE:HG23	2.16	0.45
2:W:456:TYR:CE2	2:W:503:ILE:HD11	2.52	0.45
2:X:411:ARG:O	2:X:412:GLU:C	2.54	0.45
2:Y:208:VAL:HG23	2:Y:209:ASP:N	2.31	0.45
2:Y:536:TYR:HD2	2:Y:538:ASP:H	1.63	0.45
2:Y:601:ILE:HG22	2:Y:602:TYR:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:71:PHE:C	2:U:73:GLN:H	2.19	0.45
2:V:211:GLN:OE1	2:V:328:GLN:HG2	2.16	0.45
2:V:536:TYR:HD2	2:V:538:ASP:H	1.63	0.45
2:V:596:LYS:HD3	2:V:596:LYS:C	2.37	0.45
2:X:283:VAL:CG2	2:X:323:ILE:HD13	2.47	0.45
2:X:626:THR:HB	2:X:641:ASN:ND2	2.31	0.45
2:Y:419:VAL:HA	2:Y:422:ALA:CB	2.47	0.45
1:A:19:ASP:HA	1:A:22:SER:HB2	1.97	0.45
1:D:66:ALA:O	1:D:68:VAL:N	2.45	0.45
2:U:71:PHE:C	2:U:73:GLN:N	2.69	0.45
2:U:130:LYS:O	2:U:132:THR:HG23	2.16	0.45
2:U:208:VAL:HG23	2:U:209:ASP:N	2.31	0.45
2:U:526:THR:HG21	2:U:535:LEU:HD11	1.97	0.45
2:U:596:LYS:HD3	2:U:596:LYS:C	2.37	0.45
2:W:407:CYS:O	2:W:451:ASP:HB3	2.14	0.45
2:X:130:LYS:O	2:X:132:THR:HG23	2.16	0.45
2:Y:71:PHE:C	2:Y:73:GLN:N	2.69	0.45
2:Y:557:PHE:CZ	2:Y:638:ILE:CG2	2.95	0.45
2:Z:37:PRO:HB2	2:Z:40:GLN:HB2	1.97	0.45
2:Z:173:SER:HA	2:Z:174:SER:HB3	1.98	0.45
2:Z:252:LEU:HA	2:Z:253:PRO:HD3	1.79	0.45
2:Z:390:GLN:HE22	2:Z:408:SER:H	1.65	0.45
1:E:114:ILE:HG12	1:E:115:LYS:N	2.31	0.45
2:U:27:ALA:HB3	2:U:78:LEU:HD12	1.97	0.45
2:U:73:GLN:HB3	2:U:500:LEU:HD12	1.99	0.45
2:U:211:GLN:OE1	2:U:328:GLN:HG2	2.17	0.45
2:V:283:VAL:CG2	2:V:323:ILE:HD13	2.47	0.45
2:V:456:TYR:CE2	2:V:503:ILE:HD11	2.52	0.45
2:V:499:ILE:HD13	2:V:499:ILE:N	2.28	0.45
2:V:514:ARG:CA	2:V:517:LEU:HG	2.45	0.45
2:W:458:TYR:CE2	2:W:460:LYS:HA	2.51	0.45
2:W:561:LYS:CB	2:W:640:LEU:HD21	2.47	0.45
2:X:456:TYR:CE2	2:X:503:ILE:HD11	2.52	0.45
2:Y:385:THR:HA	2:Y:388:THR:HG23	1.98	0.45
2:Y:544:VAL:CG1	2:Y:545:PRO:N	2.78	0.45
2:Y:583:SER:HA	2:Y:586:THR:HG22	1.97	0.45
2:Z:446:THR:C	2:Z:539:LYS:HE3	2.23	0.45
2:U:624:VAL:HG11	2:U:643:VAL:HG12	1.98	0.45
2:W:544:VAL:CG1	2:W:545:PRO:HD2	2.47	0.45
2:W:596:LYS:HD3	2:W:596:LYS:C	2.37	0.45
2:X:173:SER:HA	2:X:174:SER:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:27:ALA:HB3	2:Z:78:LEU:HD12	1.98	0.45
2:Z:385:THR:HA	2:Z:388:THR:HG23	1.99	0.45
2:Z:544:VAL:CG1	2:Z:545:PRO:HD2	2.47	0.45
1:A:30:LEU:HB2	1:A:33:GLY:O	2.17	0.45
1:D:64:ASP:O	1:D:68:VAL:HG23	2.16	0.45
1:D:110:ASN:HA	1:D:111:PRO:HD3	1.69	0.45
1:D:130:MET:HE2	1:D:188:TRP:CD2	2.52	0.45
2:U:390:GLN:HE22	2:U:408:SER:H	1.65	0.45
2:U:514:ARG:CA	2:U:517:LEU:HG	2.45	0.45
2:V:626:THR:HB	2:V:641:ASN:ND2	2.32	0.45
2:W:73:GLN:HB3	2:W:500:LEU:HD12	1.99	0.45
2:W:517:LEU:HD13	2:W:524:PRO:CG	2.46	0.45
2:W:544:VAL:CG1	2:W:545:PRO:N	2.78	0.45
2:X:171:ILE:CG2	2:X:172:SER:N	2.79	0.45
2:Y:153:LYS:O	2:Y:157:VAL:HG22	2.16	0.45
2:Y:390:GLN:HE22	2:Y:408:SER:H	1.65	0.45
2:Z:307:SER:O	2:Z:309:ILE:HG23	2.16	0.45
2:Z:624:VAL:HG12	2:Z:643:VAL:CB	2.46	0.45
1:D:114:ILE:HG12	1:D:115:LYS:N	2.31	0.45
1:F:123:PHE:CE1	1:F:187:GLU:HG3	2.52	0.45
2:U:307:SER:O	2:U:309:ILE:HG23	2.16	0.45
2:U:407:CYS:O	2:U:451:ASP:HB3	2.15	0.45
2:U:544:VAL:HG13	2:U:545:PRO:HD2	1.99	0.45
2:V:307:SER:O	2:V:309:ILE:HG23	2.16	0.45
2:V:385:THR:HA	2:V:388:THR:HG23	1.99	0.45
2:W:390:GLN:HE22	2:W:408:SER:H	1.64	0.45
2:W:601:ILE:HG22	2:W:602:TYR:N	2.31	0.45
2:X:50:LEU:HD12	2:X:51:VAL:N	2.31	0.45
2:X:147:THR:O	2:X:151:ILE:HG23	2.17	0.45
2:X:419:VAL:HA	2:X:422:ALA:CB	2.46	0.45
2:X:624:VAL:HG11	2:X:643:VAL:HG12	1.99	0.45
2:Y:614:THR:HB	2:Y:620:ARG:CA	2.41	0.45
2:U:44:VAL:HG11	2:U:50:LEU:HB3	1.99	0.45
2:U:385:THR:HA	2:U:388:THR:HG23	1.99	0.45
2:U:419:VAL:HA	2:U:422:ALA:CB	2.46	0.45
2:U:626:THR:HB	2:U:641:ASN:ND2	2.32	0.45
2:V:27:ALA:HB3	2:V:78:LEU:HD12	1.98	0.45
2:V:208:VAL:HG23	2:V:209:ASP:N	2.30	0.45
2:V:521:ALA:HB3	2:V:540:THR:HA	1.99	0.45
2:W:27:ALA:HB3	2:W:78:LEU:HD12	1.98	0.45
2:X:211:GLN:OE1	2:X:328:GLN:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:390:GLN:HE22	2:X:408:SER:H	1.65	0.45
2:X:596:LYS:HD3	2:X:596:LYS:C	2.37	0.45
2:X:624:VAL:HG12	2:X:643:VAL:CB	2.46	0.45
2:X:626:THR:O	2:X:626:THR:HG23	2.17	0.45
2:Y:453:ASN:ND2	2:Y:453:ASN:N	2.62	0.45
2:Y:624:VAL:HG11	2:Y:643:VAL:HG12	1.99	0.45
2:Z:50:LEU:HD12	2:Z:51:VAL:N	2.32	0.45
2:Z:283:VAL:CG2	2:Z:323:ILE:HD13	2.47	0.45
1:C:152:GLN:HA	1:C:158:PRO:HA	1.98	0.44
2:U:252:LEU:HA	2:U:253:PRO:HD3	1.80	0.44
2:U:283:VAL:CG2	2:U:323:ILE:HD13	2.47	0.44
2:U:364:ASP:OD1	2:U:364:ASP:N	2.50	0.44
2:U:458:TYR:CE2	2:U:460:LYS:HA	2.51	0.44
2:X:35:TRP:HB3	2:X:54:PHE:HA	1.98	0.44
2:Y:50:LEU:HD12	2:Y:51:VAL:N	2.32	0.44
2:Y:586:THR:HG23	2:Y:587:GLU:N	2.32	0.44
2:Z:23:SER:OG	2:Z:483:ASN:HB2	2.04	0.44
1:C:27:LYS:HB2	1:C:36:PHE:HE2	1.82	0.44
2:U:523:ASN:HD21	2:U:538:ASP:HA	1.82	0.44
2:V:71:PHE:C	2:V:73:GLN:N	2.70	0.44
2:V:171:ILE:CG2	2:V:172:SER:H	2.25	0.44
2:V:304:ILE:HG13	2:V:305:TYR:HE2	1.82	0.44
2:V:375:ALA:HB3	2:V:406:LEU:O	2.17	0.44
2:V:458:TYR:CE2	2:V:460:LYS:HA	2.52	0.44
2:V:544:VAL:HG13	2:V:545:PRO:HD2	1.99	0.44
2:V:626:THR:HG23	2:V:626:THR:O	2.17	0.44
2:W:211:GLN:OE1	2:W:328:GLN:HG2	2.17	0.44
2:W:385:THR:HA	2:W:388:THR:HG23	1.98	0.44
2:W:419:VAL:HA	2:W:422:ALA:CB	2.46	0.44
2:W:517:LEU:C	2:W:522:ILE:HG22	2.38	0.44
2:W:583:SER:HA	2:W:586:THR:HG22	1.98	0.44
2:X:62:ALA:HB1	2:X:466:ARG:HE	1.82	0.44
2:Y:514:ARG:HE	2:Y:518:TYR:HE1	1.66	0.44
2:Y:626:THR:HB	2:Y:641:ASN:ND2	2.32	0.44
2:Z:211:GLN:OE1	2:Z:328:GLN:HG2	2.16	0.44
2:Z:586:THR:HG23	2:Z:587:GLU:N	2.32	0.44
2:V:147:THR:O	2:V:151:ILE:HG23	2.17	0.44
2:V:517:LEU:C	2:V:522:ILE:HG22	2.38	0.44
2:V:624:VAL:HG11	2:V:643:VAL:HG12	1.99	0.44
2:W:151:ILE:HG13	2:W:152:ALA:N	2.30	0.44
2:W:586:THR:HG23	2:W:587:GLU:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:626:THR:HB	2:W:641:ASN:ND2	2.33	0.44
2:X:499:ILE:HD13	2:X:499:ILE:N	2.28	0.44
2:Y:211:GLN:OE1	2:Y:328:GLN:HG2	2.16	0.44
2:Y:624:VAL:HG12	2:Y:643:VAL:CB	2.47	0.44
2:Z:458:TYR:CE2	2:Z:460:LYS:HA	2.51	0.44
1:C:29:GLN:OE1	1:D:3:GLY:N	2.51	0.44
1:F:110:ASN:HA	1:F:111:PRO:HD3	1.69	0.44
2:U:163:LEU:HB3	2:U:164:GLY:H	1.63	0.44
2:U:375:ALA:HB3	2:U:406:LEU:O	2.18	0.44
2:U:624:VAL:HG12	2:U:643:VAL:CB	2.46	0.44
2:V:222:VAL:HG11	2:V:236:ILE:HG12	2.00	0.44
2:W:100:GLU:HG3	2:W:186:LYS:N	2.32	0.44
2:W:153:LYS:O	2:W:157:VAL:HG22	2.17	0.44
2:W:208:VAL:HG23	2:W:209:ASP:N	2.31	0.44
2:W:304:ILE:HG13	2:W:305:TYR:HE2	1.81	0.44
2:W:624:VAL:HG11	2:W:643:VAL:HG12	1.98	0.44
2:X:73:GLN:HB3	2:X:500:LEU:HD12	1.99	0.44
2:X:208:VAL:HG23	2:X:209:ASP:N	2.31	0.44
2:X:454:TYR:O	2:X:467:TRP:CZ3	2.71	0.44
2:X:544:VAL:CG1	2:X:545:PRO:N	2.78	0.44
2:X:583:SER:HA	2:X:586:THR:HG22	1.98	0.44
2:Y:35:TRP:HB3	2:Y:54:PHE:HA	1.98	0.44
2:Y:147:THR:O	2:Y:151:ILE:HG23	2.18	0.44
2:Y:544:VAL:CG1	2:Y:545:PRO:HD2	2.46	0.44
2:Z:536:TYR:HD2	2:Z:538:ASP:H	1.63	0.44
2:Z:627:PHE:CZ	2:Z:640:LEU:CB	2.95	0.44
2:U:454:TYR:O	2:U:467:TRP:CZ3	2.71	0.44
2:V:50:LEU:HD12	2:V:51:VAL:N	2.32	0.44
2:V:254:ILE:HB	2:V:258:GLY:O	2.18	0.44
2:V:454:TYR:O	2:V:467:TRP:CZ3	2.71	0.44
2:V:601:ILE:HG22	2:V:602:TYR:N	2.31	0.44
2:W:171:ILE:CG2	2:W:172:SER:N	2.80	0.44
2:W:173:SER:HA	2:W:174:SER:HB3	1.98	0.44
2:W:454:TYR:O	2:W:467:TRP:CZ3	2.71	0.44
2:X:385:THR:HA	2:X:388:THR:HG23	1.98	0.44
2:Y:171:ILE:CG2	2:Y:172:SER:H	2.26	0.44
2:Y:375:ALA:HB3	2:Y:406:LEU:O	2.17	0.44
2:Y:456:TYR:CE2	2:Y:503:ILE:HD11	2.52	0.44
2:Z:601:ILE:HG22	2:Z:602:TYR:N	2.31	0.44
2:U:453:ASN:ND2	2:U:453:ASN:N	2.62	0.44
2:U:536:TYR:HD2	2:U:538:ASP:H	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:601:ILE:HG22	2:U:602:TYR:N	2.31	0.44
2:V:100:GLU:HG3	2:V:186:LYS:N	2.31	0.44
2:W:147:THR:O	2:W:151:ILE:HG23	2.18	0.44
2:W:626:THR:HG23	2:W:626:THR:O	2.17	0.44
2:X:153:LYS:O	2:X:157:VAL:HG22	2.17	0.44
2:X:586:THR:HG23	2:X:587:GLU:N	2.32	0.44
2:Z:419:VAL:HA	2:Z:422:ALA:CB	2.46	0.44
2:Z:544:VAL:HG13	2:Z:545:PRO:HD2	1.99	0.44
2:Z:596:LYS:HD3	2:Z:596:LYS:C	2.37	0.44
1:A:108:GLN:HB3	1:A:199:TYR:HB2	2.00	0.44
2:U:66:MET:HA	2:U:66:MET:HE3	1.98	0.44
2:U:153:LYS:O	2:U:157:VAL:HG22	2.17	0.44
2:V:153:LYS:O	2:V:157:VAL:HG22	2.17	0.44
2:X:517:LEU:C	2:X:522:ILE:HG22	2.38	0.44
2:Y:295:LEU:HD11	2:Y:314:PHE:CD2	2.53	0.44
2:Y:454:TYR:O	2:Y:467:TRP:CZ3	2.71	0.44
2:Z:71:PHE:C	2:Z:73:GLN:N	2.69	0.44
2:Z:151:ILE:HG13	2:Z:152:ALA:N	2.30	0.44
2:Z:454:TYR:O	2:Z:467:TRP:CZ3	2.71	0.44
2:Z:456:TYR:CE2	2:Z:503:ILE:HD11	2.53	0.44
1:A:26:ILE:HG13	1:A:37:ILE:HG12	2.00	0.44
2:V:379:ALA:HB2	2:V:454:TYR:CE2	2.46	0.44
2:V:586:THR:HG23	2:V:587:GLU:N	2.32	0.44
2:W:375:ALA:HB3	2:W:406:LEU:O	2.17	0.44
2:Y:56:GLN:HA	2:Y:57:PRO:HD3	1.80	0.44
2:Z:153:LYS:O	2:Z:157:VAL:HG22	2.17	0.44
2:Z:626:THR:HB	2:Z:641:ASN:ND2	2.32	0.44
1:B:66:ALA:C	1:B:68:VAL:H	2.20	0.44
1:D:67:LYS:HG2	1:D:67:LYS:O	2.18	0.44
1:E:212:THR:HA	1:E:222:ASP:HA	2.00	0.44
2:U:222:VAL:HG11	2:U:236:ILE:HG12	2.00	0.44
2:U:626:THR:O	2:U:626:THR:HG23	2.17	0.44
2:V:173:SER:HA	2:V:174:SER:HB3	1.98	0.44
2:V:253:PRO:HD2	2:V:336:GLY:HA2	2.00	0.44
2:V:419:VAL:HA	2:V:422:ALA:CB	2.46	0.44
2:V:523:ASN:HD21	2:V:538:ASP:HA	1.83	0.44
2:Y:240:SER:HB3	2:Y:279:TYR:CE1	2.53	0.44
2:Y:453:ASN:HD22	2:Y:453:ASN:N	2.16	0.44
2:Y:596:LYS:HD3	2:Y:596:LYS:C	2.37	0.44
2:Z:626:THR:HG23	2:Z:626:THR:O	2.17	0.44
1:F:130:MET:HE2	1:F:188:TRP:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:304:ILE:HG13	2:U:305:TYR:HE2	1.81	0.43
2:U:514:ARG:HE	2:U:518:TYR:HE1	1.66	0.43
2:V:390:GLN:HE22	2:V:408:SER:H	1.66	0.43
2:W:240:SER:HB3	2:W:279:TYR:CE1	2.53	0.43
2:X:74:TYR:OH	2:X:473:ASP:OD2	2.35	0.43
2:X:100:GLU:HB2	2:X:185:GLY:CA	2.48	0.43
2:X:253:PRO:HD2	2:X:336:GLY:HA2	2.00	0.43
2:X:521:ALA:HB1	2:X:540:THR:CA	2.46	0.43
2:X:544:VAL:CG1	2:X:545:PRO:HD2	2.47	0.43
2:Y:62:ALA:HB1	2:Y:466:ARG:HE	1.83	0.43
2:Y:253:PRO:HD2	2:Y:336:GLY:HA2	2.00	0.43
2:Z:517:LEU:C	2:Z:522:ILE:HG22	2.38	0.43
1:C:212:THR:HA	1:C:222:ASP:HA	2.00	0.43
1:F:124:THR:HG23	1:F:126:TYR:N	2.33	0.43
2:U:173:SER:HA	2:U:174:SER:HB3	1.98	0.43
2:U:453:ASN:HD22	2:U:453:ASN:N	2.16	0.43
2:V:382:SER:CB	2:V:385:THR:HG22	2.42	0.43
2:V:517:LEU:HB2	2:V:522:ILE:HG23	1.95	0.43
2:X:643:VAL:HG23	2:X:643:VAL:O	2.19	0.43
2:Y:544:VAL:HG13	2:Y:545:PRO:HD2	1.99	0.43
2:Y:626:THR:O	2:Y:626:THR:HG23	2.17	0.43
2:Z:253:PRO:HD2	2:Z:336:GLY:HA2	2.00	0.43
1:C:106:VAL:HG12	1:C:107:SER:H	1.82	0.43
2:U:48:VAL:HG12	2:U:48:VAL:O	2.19	0.43
2:U:90:LYS:N	2:U:344:LEU:O	2.48	0.43
2:U:100:GLU:HB2	2:U:185:GLY:CA	2.48	0.43
2:U:253:PRO:HD2	2:U:336:GLY:HA2	2.00	0.43
2:U:295:LEU:HD11	2:U:314:PHE:CD2	2.53	0.43
2:U:586:THR:HG23	2:U:587:GLU:N	2.32	0.43
2:V:44:VAL:HG11	2:V:50:LEU:HB3	1.99	0.43
2:V:48:VAL:O	2:V:48:VAL:HG12	2.18	0.43
2:V:240:SER:HB3	2:V:279:TYR:CE1	2.53	0.43
2:W:364:ASP:N	2:W:364:ASP:OD1	2.51	0.43
2:X:48:VAL:O	2:X:48:VAL:HG12	2.18	0.43
2:X:364:ASP:OD1	2:X:364:ASP:N	2.50	0.43
2:X:502:VAL:CG1	2:X:504:LYS:H	2.31	0.43
2:X:526:THR:CG2	2:X:535:LEU:CD2	2.95	0.43
2:Z:254:ILE:HB	2:Z:258:GLY:O	2.19	0.43
2:Z:624:VAL:HG11	2:Z:643:VAL:HG12	1.99	0.43
1:B:56:TRP:HB3	1:B:71:ILE:HD13	2.00	0.43
1:D:157:ILE:HB	2:X:579:PHE:CG	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:517:LEU:C	2:U:522:ILE:HG22	2.38	0.43
2:V:100:GLU:HB2	2:V:185:GLY:CA	2.48	0.43
2:V:511:GLN:HE21	2:V:511:GLN:CA	2.30	0.43
2:V:517:LEU:HD13	2:V:524:PRO:CG	2.46	0.43
2:W:222:VAL:HG11	2:W:236:ILE:HG12	2.00	0.43
2:W:502:VAL:CG1	2:W:504:LYS:H	2.31	0.43
2:W:521:ALA:HB3	2:W:540:THR:HA	1.99	0.43
2:X:240:SER:HB3	2:X:279:TYR:CE1	2.53	0.43
2:Y:517:LEU:HD13	2:Y:524:PRO:CG	2.45	0.43
2:Y:517:LEU:C	2:Y:522:ILE:HG22	2.38	0.43
2:Y:521:ALA:HB3	2:Y:540:THR:HA	2.00	0.43
2:Z:44:VAL:HG11	2:Z:50:LEU:HB3	2.00	0.43
2:Z:222:VAL:HG11	2:Z:236:ILE:HG12	2.00	0.43
2:Z:304:ILE:HG13	2:Z:305:TYR:HE2	1.81	0.43
1:E:127:GLU:HG2	1:E:131:PHE:CZ	2.54	0.43
2:U:377:SER:HA	2:U:469:PRO:HG3	2.00	0.43
2:U:502:VAL:CG1	2:U:504:LYS:H	2.31	0.43
2:U:514:ARG:NH2	2:U:535:LEU:HD22	2.33	0.43
2:V:438:ASP:OD2	2:V:438:ASP:N	2.47	0.43
2:V:526:THR:CG2	2:V:535:LEU:CD2	2.94	0.43
2:W:50:LEU:HD12	2:W:51:VAL:N	2.32	0.43
2:W:526:THR:HG21	2:W:535:LEU:HD11	1.97	0.43
2:X:254:ILE:HB	2:X:258:GLY:O	2.18	0.43
2:X:375:ALA:HB3	2:X:406:LEU:O	2.17	0.43
2:X:561:LYS:CB	2:X:640:LEU:HD21	2.47	0.43
2:Z:375:ALA:HB3	2:Z:406:LEU:O	2.17	0.43
2:Z:526:THR:HG21	2:Z:535:LEU:HD11	1.97	0.43
1:B:114:ILE:HG12	1:B:115:LYS:N	2.33	0.43
2:U:240:SER:HB3	2:U:279:TYR:CE1	2.53	0.43
2:V:581:ARG:HB2	2:V:623:PHE:HZ	1.82	0.43
2:W:521:ALA:HB1	2:W:540:THR:CA	2.46	0.43
2:X:67:SER:OG	2:X:472:ALA:HB2	2.19	0.43
2:Y:171:ILE:CG2	2:Y:172:SER:N	2.79	0.43
2:Z:62:ALA:HB1	2:Z:466:ARG:HE	1.83	0.43
2:Z:502:VAL:CG1	2:Z:504:LYS:H	2.31	0.43
2:Z:547:PRO:C	2:Z:553:VAL:CG2	2.83	0.43
2:Z:581:ARG:HA	2:Z:623:PHE:CE2	2.53	0.43
1:A:168:MET:HB2	1:A:191:THR:HG22	2.01	0.43
1:B:108:GLN:CB	1:B:199:TYR:HB2	2.49	0.43
1:C:56:TRP:HB3	1:C:71:ILE:HD13	2.01	0.43
1:D:30:LEU:HB2	1:D:33:GLY:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:581:ARG:HB2	2:U:623:PHE:HZ	1.83	0.43
2:V:502:VAL:CG1	2:V:504:LYS:H	2.31	0.43
2:V:514:ARG:NH2	2:V:535:LEU:HD22	2.33	0.43
2:W:48:VAL:O	2:W:48:VAL:HG12	2.19	0.43
2:W:423:VAL:HG21	2:W:513:GLN:NE2	2.34	0.43
2:W:523:ASN:HD21	2:W:538:ASP:HA	1.82	0.43
2:X:222:VAL:HG11	2:X:236:ILE:HG12	2.00	0.43
2:Z:100:GLU:HB2	2:Z:185:GLY:CA	2.48	0.43
1:B:124:THR:HG23	1:B:126:TYR:H	1.84	0.43
1:B:124:THR:CG2	1:B:130:MET:HG2	2.46	0.43
2:V:364:ASP:N	2:V:364:ASP:OD1	2.50	0.43
2:W:44:VAL:HG11	2:W:50:LEU:HB3	1.99	0.43
2:W:254:ILE:HB	2:W:258:GLY:O	2.19	0.43
2:W:499:ILE:HD13	2:W:499:ILE:N	2.28	0.43
2:X:407:CYS:O	2:X:451:ASP:HB3	2.15	0.43
2:Y:100:GLU:HB2	2:Y:185:GLY:CA	2.49	0.43
2:Y:581:ARG:HA	2:Y:623:PHE:CE2	2.54	0.43
2:Z:89:ALA:HB3	2:Z:194:LEU:CD1	2.49	0.43
2:Z:147:THR:O	2:Z:151:ILE:HG23	2.18	0.43
2:Z:377:SER:HA	2:Z:469:PRO:HG3	2.00	0.43
2:V:295:LEU:HD11	2:V:314:PHE:CD2	2.54	0.43
2:V:526:THR:HG21	2:V:535:LEU:HD11	1.97	0.43
2:V:576:ASN:CA	2:V:580:THR:HG21	2.49	0.43
2:V:643:VAL:O	2:V:643:VAL:HG23	2.19	0.43
2:W:502:VAL:CG1	2:W:503:ILE:N	2.82	0.43
2:W:544:VAL:HG13	2:W:545:PRO:HD2	2.00	0.43
2:X:581:ARG:HB2	2:X:623:PHE:HZ	1.83	0.43
2:Y:254:ILE:HB	2:Y:258:GLY:O	2.18	0.43
2:Y:312:ASP:O	2:Y:316:ALA:HB2	2.19	0.43
1:B:223:LEU:HA	1:B:224:PRO:HD3	1.84	0.43
2:U:34:GLN:OE1	2:U:230:LEU:HD11	2.19	0.43
2:U:89:ALA:HB3	2:U:194:LEU:CD1	2.49	0.43
2:U:577:ASN:N	2:U:580:THR:CG2	2.82	0.43
2:U:581:ARG:HA	2:U:623:PHE:CE2	2.53	0.43
2:V:34:GLN:OE1	2:V:230:LEU:HD11	2.19	0.43
2:V:89:ALA:HB3	2:V:194:LEU:CD1	2.49	0.43
2:V:97:GLY:O	2:V:98:ASN:O	2.37	0.43
2:V:577:ASN:N	2:V:580:THR:CG2	2.82	0.43
2:W:97:GLY:O	2:W:98:ASN:O	2.37	0.43
2:W:581:ARG:HB2	2:W:623:PHE:HZ	1.83	0.43
2:X:295:LEU:HD11	2:X:314:PHE:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:577:ASN:N	2:X:580:THR:CG2	2.82	0.43
2:Y:89:ALA:HB3	2:Y:194:LEU:CD1	2.49	0.43
2:Y:215:LYS:HE3	2:Y:329:ASN:OD1	2.19	0.43
2:Y:377:SER:HA	2:Y:469:PRO:HG3	2.00	0.43
2:Z:48:VAL:O	2:Z:48:VAL:HG12	2.19	0.43
2:Z:312:ASP:O	2:Z:316:ALA:HB2	2.19	0.43
2:Z:478:CYS:C	2:Z:480:ARG:N	2.73	0.43
2:Z:602:TYR:CD2	2:Z:603:GLU:N	2.87	0.43
1:C:223:LEU:HA	1:C:224:PRO:HD3	1.80	0.42
1:F:109:TYR:OH	1:F:202:VAL:HG21	2.19	0.42
1:F:149:MET:HG3	1:F:212:THR:O	2.18	0.42
2:U:147:THR:O	2:U:151:ILE:HG23	2.18	0.42
2:U:215:LYS:HE3	2:U:329:ASN:OD1	2.19	0.42
2:U:602:TYR:CD2	2:U:603:GLU:N	2.87	0.42
2:V:24:THR:O	2:V:26:THR:N	2.52	0.42
2:V:62:ALA:HB1	2:V:466:ARG:HE	1.83	0.42
2:W:24:THR:O	2:W:26:THR:N	2.52	0.42
2:W:62:ALA:HB1	2:W:466:ARG:HE	1.83	0.42
2:W:100:GLU:HB2	2:W:185:GLY:CA	2.49	0.42
2:W:171:ILE:CG2	2:W:172:SER:H	2.26	0.42
2:X:24:THR:O	2:X:26:THR:N	2.52	0.42
2:X:89:ALA:HB3	2:X:194:LEU:CD1	2.49	0.42
2:X:514:ARG:HE	2:X:518:TYR:HE1	1.67	0.42
2:X:539:LYS:HE2	2:X:541:ALA:CA	2.41	0.42
2:Y:576:ASN:CA	2:Y:580:THR:HG21	2.48	0.42
2:Z:34:GLN:OE1	2:Z:230:LEU:HD11	2.19	0.42
2:Z:295:LEU:HD11	2:Z:314:PHE:CD2	2.54	0.42
2:Z:407:CYS:O	2:Z:451:ASP:HB3	2.14	0.42
2:Z:423:VAL:HG21	2:Z:513:GLN:NE2	2.34	0.42
2:Z:453:ASN:HD22	2:Z:453:ASN:N	2.15	0.42
1:D:66:ALA:C	1:D:68:VAL:H	2.22	0.42
2:U:68:ALA:O	2:U:69:MET:C	2.58	0.42
2:U:97:GLY:O	2:U:98:ASN:O	2.37	0.42
2:U:178:LEU:HD23	2:U:178:LEU:N	2.22	0.42
2:U:254:ILE:HB	2:U:258:GLY:O	2.18	0.42
2:V:68:ALA:O	2:V:69:MET:C	2.58	0.42
2:W:252:LEU:HA	2:W:253:PRO:HD3	1.80	0.42
2:W:253:PRO:HD2	2:W:336:GLY:HA2	2.00	0.42
2:W:539:LYS:HE2	2:W:541:ALA:CA	2.42	0.42
2:W:602:TYR:CD2	2:W:603:GLU:N	2.87	0.42
2:W:621:ASN:HD22	2:W:621:ASN:HA	1.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:44:VAL:HG11	2:X:50:LEU:HB3	1.99	0.42
2:X:90:LYS:N	2:X:344:LEU:O	2.48	0.42
2:X:312:ASP:O	2:X:316:ALA:HB2	2.19	0.42
2:X:576:ASN:CA	2:X:580:THR:HG21	2.49	0.42
2:X:581:ARG:HA	2:X:623:PHE:CE2	2.54	0.42
2:Y:44:VAL:HG11	2:Y:50:LEU:HB3	1.99	0.42
2:Y:77:ASP:OD1	2:Y:77:ASP:O	2.38	0.42
2:Z:240:SER:HB3	2:Z:279:TYR:CE1	2.53	0.42
2:Z:364:ASP:OD1	2:Z:364:ASP:N	2.51	0.42
1:C:38:ARG:O	1:C:40:PRO:HD3	2.20	0.42
1:C:66:ALA:C	1:C:68:VAL:H	2.23	0.42
1:C:123:PHE:CE1	1:C:187:GLU:HG3	2.54	0.42
2:U:502:VAL:CG1	2:U:503:ILE:N	2.82	0.42
2:U:514:ARG:HA	2:U:517:LEU:CG	2.49	0.42
2:U:556:LEU:HD13	2:U:631:PRO:HA	2.01	0.42
2:U:576:ASN:CA	2:U:580:THR:HG21	2.49	0.42
2:V:602:TYR:CD2	2:V:603:GLU:N	2.87	0.42
2:W:67:SER:OG	2:W:472:ALA:HB2	2.19	0.42
2:W:215:LYS:HE3	2:W:329:ASN:OD1	2.18	0.42
2:W:295:LEU:HD11	2:W:314:PHE:CD2	2.54	0.42
2:W:570:TYR:CD2	2:W:584:PHE:CE2	2.95	0.42
2:X:409:PRO:HG2	2:X:454:TYR:CE1	2.54	0.42
2:Y:222:VAL:HG11	2:Y:236:ILE:HG12	2.00	0.42
2:Y:502:VAL:CG1	2:Y:504:LYS:H	2.31	0.42
2:Y:514:ARG:HA	2:Y:517:LEU:CD2	2.50	0.42
2:Z:24:THR:O	2:Z:26:THR:N	2.52	0.42
2:Z:77:ASP:OD1	2:Z:77:ASP:O	2.37	0.42
2:Z:502:VAL:CG1	2:Z:503:ILE:N	2.83	0.42
2:Z:514:ARG:HE	2:Z:518:TYR:HE1	1.66	0.42
2:Z:523:ASN:HD21	2:Z:538:ASP:HA	1.83	0.42
2:U:627:PHE:CZ	2:U:640:LEU:CB	2.95	0.42
2:V:496:ARG:O	2:V:496:ARG:CG	2.59	0.42
2:W:514:ARG:HE	2:W:518:TYR:HE1	1.67	0.42
2:W:514:ARG:NH2	2:W:535:LEU:HD22	2.33	0.42
2:W:576:ASN:CA	2:W:580:THR:HG21	2.49	0.42
2:W:581:ARG:HA	2:W:623:PHE:CE2	2.54	0.42
2:W:588:THR:CG2	2:W:589:ALA:N	2.83	0.42
2:W:643:VAL:HG23	2:W:643:VAL:O	2.19	0.42
2:X:34:GLN:OE1	2:X:230:LEU:HD11	2.19	0.42
2:Y:48:VAL:O	2:Y:48:VAL:HG12	2.19	0.42
2:Y:643:VAL:O	2:Y:643:VAL:HG23	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:371:GLN:O	2:Z:403:CYS:HA	2.19	0.42
2:Z:577:ASN:N	2:Z:580:THR:CG2	2.83	0.42
2:Z:588:THR:CG2	2:Z:589:ALA:N	2.82	0.42
1:C:28:ARG:HD3	1:C:28:ARG:HA	1.85	0.42
1:E:110:ASN:HA	1:E:111:PRO:HD3	1.73	0.42
1:F:7:ASN:HB3	1:F:209:ILE:HD12	2.01	0.42
1:F:28:ARG:HD3	1:F:28:ARG:HA	1.90	0.42
2:U:62:ALA:HB1	2:U:466:ARG:HE	1.83	0.42
2:U:312:ASP:O	2:U:316:ALA:HB2	2.20	0.42
2:U:370:VAL:HG23	2:U:370:VAL:O	2.20	0.42
2:V:526:THR:CG2	2:V:535:LEU:CD1	2.95	0.42
2:V:562:THR:CG2	2:V:563:ASN:N	2.82	0.42
2:W:89:ALA:HB3	2:W:194:LEU:CD1	2.49	0.42
2:W:577:ASN:N	2:W:580:THR:CG2	2.82	0.42
2:X:77:ASP:OD1	2:X:77:ASP:O	2.38	0.42
2:X:97:GLY:O	2:X:98:ASN:O	2.37	0.42
2:X:215:LYS:HE3	2:X:329:ASN:OD1	2.19	0.42
2:X:391:LYS:CE	2:X:440:ASN:ND2	2.83	0.42
2:X:575:LEU:N	2:X:575:LEU:CD1	2.83	0.42
2:X:624:VAL:CB	2:X:643:VAL:HG12	2.50	0.42
2:Y:24:THR:O	2:Y:26:THR:N	2.53	0.42
2:Y:407:CYS:O	2:Y:451:ASP:HB3	2.14	0.42
2:Y:602:TYR:CD2	2:Y:603:GLU:N	2.87	0.42
2:Y:618:ILE:CG2	2:Y:619:ASP:N	2.83	0.42
2:Z:67:SER:OG	2:Z:472:ALA:HB2	2.19	0.42
2:Z:539:LYS:HE2	2:Z:541:ALA:CA	2.43	0.42
2:Z:555:ARG:O	2:Z:559:MET:HG3	2.19	0.42
2:Z:643:VAL:O	2:Z:643:VAL:HG23	2.19	0.42
1:B:12:ARG:NH2	1:B:199:TYR:OH	2.52	0.42
2:U:171:ILE:CG2	2:U:172:SER:H	2.25	0.42
2:U:624:VAL:CB	2:U:643:VAL:HG12	2.50	0.42
2:U:643:VAL:HG23	2:U:643:VAL:O	2.19	0.42
2:V:215:LYS:HE3	2:V:329:ASN:OD1	2.18	0.42
2:V:252:LEU:HA	2:V:253:PRO:HD3	1.80	0.42
2:V:423:VAL:HG21	2:V:513:GLN:NE2	2.34	0.42
2:V:556:LEU:HD23	2:V:556:LEU:O	2.20	0.42
2:V:588:THR:CG2	2:V:589:ALA:N	2.82	0.42
2:W:453:ASN:HD22	2:W:453:ASN:N	2.16	0.42
2:W:511:GLN:HE21	2:W:511:GLN:CA	2.30	0.42
2:X:46:ASN:HB2	2:X:49:ASP:CB	2.50	0.42
2:X:618:ILE:CG2	2:X:619:ASP:N	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y:627:PHE:CZ	2:Y:640:LEU:CB	2.95	0.42
2:Z:236:ILE:HD11	2:Z:340:LEU:HD11	2.01	0.42
2:Z:562:THR:CG2	2:Z:563:ASN:N	2.82	0.42
2:U:56:GLN:HA	2:U:57:PRO:HD3	1.80	0.42
2:U:538:ASP:HB2	2:U:539:LYS:H	1.43	0.42
2:U:562:THR:CG2	2:U:563:ASN:N	2.82	0.42
2:V:377:SER:HA	2:V:469:PRO:HG3	2.01	0.42
2:V:502:VAL:CG1	2:V:503:ILE:N	2.82	0.42
2:W:312:ASP:O	2:W:316:ALA:HB2	2.19	0.42
2:W:371:GLN:O	2:W:403:CYS:HA	2.19	0.42
2:W:514:ARG:HA	2:W:517:LEU:CD2	2.50	0.42
2:X:371:GLN:O	2:X:403:CYS:HA	2.19	0.42
2:X:423:VAL:HG21	2:X:513:GLN:NE2	2.35	0.42
2:X:588:THR:CG2	2:X:589:ALA:N	2.82	0.42
2:Y:514:ARG:HA	2:Y:517:LEU:CG	2.49	0.42
2:Y:561:LYS:CB	2:Y:640:LEU:HD21	2.47	0.42
2:Y:562:THR:CG2	2:Y:563:ASN:N	2.82	0.42
2:Y:577:ASN:N	2:Y:580:THR:CG2	2.82	0.42
2:Y:624:VAL:CB	2:Y:643:VAL:HG12	2.50	0.42
2:Z:561:LYS:CB	2:Z:640:LEU:HD21	2.47	0.42
2:Z:627:PHE:HZ	2:Z:640:LEU:CD2	2.29	0.42
2:U:24:THR:O	2:U:26:THR:N	2.52	0.42
2:U:438:ASP:OD2	2:U:438:ASP:N	2.48	0.42
2:V:312:ASP:O	2:V:316:ALA:HB2	2.20	0.42
2:W:68:ALA:O	2:W:69:MET:C	2.58	0.42
2:W:408:SER:OG	2:W:409:PRO:HD2	2.20	0.42
2:W:409:PRO:HG2	2:W:454:TYR:CE1	2.55	0.42
2:W:496:ARG:O	2:W:496:ARG:CG	2.59	0.42
2:X:171:ILE:CG2	2:X:172:SER:H	2.25	0.42
2:X:236:ILE:HD11	2:X:340:LEU:HD11	2.01	0.42
2:X:502:VAL:CG1	2:X:503:ILE:N	2.83	0.42
2:X:514:ARG:HA	2:X:517:LEU:CG	2.49	0.42
2:X:537:GLY:O	2:X:538:ASP:CB	2.68	0.42
2:Y:478:CYS:C	2:Y:480:ARG:N	2.73	0.42
2:Z:68:ALA:O	2:Z:69:MET:C	2.58	0.42
2:Z:197:GLU:H	2:Z:197:GLU:CD	2.23	0.42
2:Z:521:ALA:HB3	2:Z:540:THR:HA	1.99	0.42
1:A:109:TYR:OH	1:A:202:VAL:HG21	2.20	0.42
1:B:108:GLN:HB3	1:B:199:TYR:HB2	2.02	0.42
2:U:197:GLU:CD	2:U:197:GLU:H	2.22	0.42
2:U:236:ILE:HD11	2:U:340:LEU:HD11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:629:ILE:CG2	2:U:630:GLN:N	2.83	0.42
2:V:556:LEU:HD13	2:V:631:PRO:HA	2.02	0.42
2:V:581:ARG:HA	2:V:623:PHE:CE2	2.54	0.42
2:W:34:GLN:OE1	2:W:230:LEU:HD11	2.19	0.42
2:W:56:GLN:HA	2:W:57:PRO:HD3	1.81	0.42
2:W:236:ILE:HD11	2:W:340:LEU:HD11	2.01	0.42
2:W:618:ILE:CG2	2:W:619:ASP:N	2.83	0.42
2:W:624:VAL:CB	2:W:643:VAL:HG12	2.50	0.42
2:X:213:ASN:N	2:X:213:ASN:ND2	2.67	0.42
2:X:460:LYS:HB3	2:X:460:LYS:HE3	1.82	0.42
2:Y:364:ASP:N	2:Y:364:ASP:OD1	2.51	0.42
2:Y:555:ARG:O	2:Y:559:MET:HG3	2.19	0.42
2:Y:627:PHE:HZ	2:Y:640:LEU:CD2	2.30	0.42
2:Z:514:ARG:HA	2:Z:517:LEU:CD2	2.50	0.42
2:Z:618:ILE:CG2	2:Z:619:ASP:N	2.83	0.42
1:E:222:ASP:OD1	1:E:222:ASP:N	2.53	0.42
2:U:371:GLN:O	2:U:403:CYS:HA	2.20	0.42
2:V:404:LEU:HA	2:V:554:ARG:HH22	1.85	0.42
2:V:537:GLY:O	2:V:538:ASP:CB	2.68	0.42
2:W:46:ASN:HB2	2:W:49:ASP:CB	2.50	0.42
2:X:377:SER:HA	2:X:469:PRO:HG3	2.00	0.42
2:X:496:ARG:O	2:X:496:ARG:CG	2.60	0.42
2:X:562:THR:CG2	2:X:563:ASN:N	2.82	0.42
2:X:602:TYR:CD2	2:X:603:GLU:N	2.88	0.42
2:Y:97:GLY:O	2:Y:98:ASN:O	2.37	0.42
2:Y:304:ILE:HG13	2:Y:305:TYR:HE2	1.82	0.42
2:Y:371:GLN:O	2:Y:403:CYS:HA	2.19	0.42
2:Y:588:THR:CG2	2:Y:589:ALA:N	2.82	0.42
2:Z:370:VAL:O	2:Z:370:VAL:HG23	2.20	0.42
2:Z:423:VAL:O	2:Z:424:ASP:C	2.58	0.42
2:Z:624:VAL:CB	2:Z:643:VAL:HG12	2.49	0.42
1:A:222:ASP:OD1	1:A:222:ASP:N	2.53	0.41
1:B:28:ARG:HA	1:B:28:ARG:HD3	1.96	0.41
2:U:200:ASN:O	2:U:201:ALA:C	2.58	0.41
2:V:61:THR:O	2:V:62:ALA:C	2.59	0.41
2:V:624:VAL:CB	2:V:643:VAL:HG12	2.50	0.41
2:W:526:THR:CG2	2:W:535:LEU:CD1	2.95	0.41
2:X:23:SER:HB2	2:X:559:MET:SD	2.59	0.41
2:Y:67:SER:OG	2:Y:472:ALA:HB2	2.20	0.41
2:Y:370:VAL:HG23	2:Y:370:VAL:O	2.20	0.41
2:Y:502:VAL:CG1	2:Y:503:ILE:N	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:119:LYS:HE3	2:Z:124:ASP:OD1	2.20	0.41
2:Z:404:LEU:HA	2:Z:554:ARG:HH22	1.85	0.41
2:Z:581:ARG:HB2	2:Z:623:PHE:HZ	1.84	0.41
1:C:108:GLN:HB3	1:C:199:TYR:HB2	2.03	0.41
2:U:74:TYR:OH	2:U:473:ASP:OD2	2.35	0.41
2:U:77:ASP:OD1	2:U:77:ASP:O	2.38	0.41
2:U:555:ARG:O	2:U:559:MET:HG3	2.20	0.41
2:U:558:ASN:O	2:U:561:LYS:HG2	2.20	0.41
2:U:561:LYS:CB	2:U:640:LEU:HD21	2.47	0.41
2:U:588:THR:CG2	2:U:589:ALA:N	2.82	0.41
2:V:77:ASP:OD1	2:V:77:ASP:O	2.37	0.41
2:V:90:LYS:N	2:V:344:LEU:O	2.48	0.41
2:V:213:ASN:N	2:V:213:ASN:ND2	2.67	0.41
2:V:370:VAL:HG23	2:V:370:VAL:O	2.20	0.41
2:V:514:ARG:HA	2:V:517:LEU:CD2	2.50	0.41
2:W:77:ASP:OD1	2:W:77:ASP:O	2.38	0.41
2:W:377:SER:HA	2:W:469:PRO:HG3	2.00	0.41
2:W:562:THR:CG2	2:W:563:ASN:N	2.82	0.41
2:X:90:LYS:HA	2:X:90:LYS:HD3	1.93	0.41
2:X:514:ARG:NH2	2:X:535:LEU:HD22	2.33	0.41
2:Y:46:ASN:HB2	2:Y:49:ASP:CB	2.50	0.41
2:Y:50:LEU:HD11	2:Y:65:PHE:CE1	2.56	0.41
2:Y:627:PHE:CE1	2:Y:640:LEU:HB3	2.55	0.41
2:Z:97:GLY:O	2:Z:98:ASN:O	2.37	0.41
2:Z:100:GLU:HG3	2:Z:186:LYS:N	2.32	0.41
2:Z:200:ASN:O	2:Z:201:ALA:C	2.58	0.41
2:Z:499:ILE:H	2:Z:499:ILE:CD1	2.25	0.41
2:Z:554:ARG:HG2	2:Z:558:ASN:OD1	2.20	0.41
1:A:108:GLN:CB	1:A:199:TYR:HB2	2.50	0.41
1:E:28:ARG:HA	1:E:28:ARG:HD3	1.89	0.41
1:E:64:ASP:O	1:E:68:VAL:HG23	2.20	0.41
1:F:167:LEU:HD11	1:F:190:LEU:HD12	2.02	0.41
2:U:50:LEU:HD11	2:U:65:PHE:CE1	2.55	0.41
2:U:67:SER:OG	2:U:472:ALA:HB2	2.19	0.41
2:U:514:ARG:HA	2:U:517:LEU:CD2	2.51	0.41
2:U:521:ALA:HB1	2:U:540:THR:CA	2.46	0.41
2:V:618:ILE:CG2	2:V:619:ASP:N	2.83	0.41
2:W:391:LYS:CE	2:W:440:ASN:ND2	2.83	0.41
2:W:557:PHE:CE2	2:W:631:PRO:CG	3.03	0.41
2:X:50:LEU:HD11	2:X:65:PHE:CE1	2.55	0.41
2:X:197:GLU:H	2:X:197:GLU:CD	2.23	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:544:VAL:HG13	2:X:545:PRO:HD2	2.01	0.41
2:X:558:ASN:O	2:X:561:LYS:HG2	2.21	0.41
2:Y:590:GLN:HE21	2:Y:590:GLN:HB3	1.66	0.41
2:Z:46:ASN:HB2	2:Z:49:ASP:CB	2.50	0.41
2:Z:90:LYS:HA	2:Z:90:LYS:HD3	1.92	0.41
2:Z:215:LYS:HE3	2:Z:329:ASN:OD1	2.19	0.41
2:Z:537:GLY:O	2:Z:538:ASP:CB	2.69	0.41
2:U:423:VAL:HG21	2:U:513:GLN:NE2	2.34	0.41
2:V:56:GLN:HA	2:V:57:PRO:HD3	1.80	0.41
2:V:561:LYS:CB	2:V:640:LEU:HD21	2.46	0.41
2:V:627:PHE:CE1	2:V:640:LEU:HB3	2.54	0.41
2:W:213:ASN:N	2:W:213:ASN:ND2	2.67	0.41
2:X:290:VAL:HG11	2:X:322:TYR:CE1	2.56	0.41
2:X:627:PHE:CD1	2:X:627:PHE:C	2.94	0.41
2:Y:150:ILE:H	2:Y:150:ILE:HG12	1.63	0.41
2:Y:391:LYS:CE	2:Y:440:ASN:ND2	2.84	0.41
2:Y:406:LEU:HA	2:Y:449:ALA:O	2.20	0.41
2:Z:498:GLN:HG3	2:Z:533:TYR:HA	2.02	0.41
1:A:157:ILE:N	2:U:579:PHE:CE1	2.86	0.41
1:B:222:ASP:OD1	1:B:222:ASP:N	2.53	0.41
2:U:403:CYS:HB2	2:U:404:LEU:H	1.77	0.41
2:U:427:VAL:O	2:U:431:THR:CG2	2.68	0.41
2:U:618:ILE:CG2	2:U:619:ASP:N	2.83	0.41
2:V:23:SER:OG	2:V:483:ASN:CA	2.69	0.41
2:V:555:ARG:O	2:V:559:MET:HG3	2.19	0.41
2:X:56:GLN:HA	2:X:57:PRO:HD3	1.81	0.41
2:X:68:ALA:O	2:X:69:MET:C	2.58	0.41
2:X:406:LEU:HA	2:X:449:ALA:O	2.21	0.41
2:X:408:SER:OG	2:X:409:PRO:HD2	2.21	0.41
2:X:627:PHE:CZ	2:X:640:LEU:CB	2.95	0.41
2:Y:160:TYR:HA	2:Y:161:PRO:HA	1.82	0.41
2:Y:627:PHE:CD1	2:Y:627:PHE:C	2.94	0.41
2:Z:61:THR:O	2:Z:62:ALA:C	2.59	0.41
2:Z:150:ILE:H	2:Z:150:ILE:HG12	1.63	0.41
2:Z:409:PRO:HG2	2:Z:454:TYR:CE1	2.55	0.41
1:E:108:GLN:HB3	1:E:199:TYR:HB2	2.03	0.41
1:F:156:ASP:HB3	2:Z:579:PHE:CD1	2.54	0.41
2:V:371:GLN:O	2:V:403:CYS:HA	2.19	0.41
2:V:391:LYS:CE	2:V:440:ASN:ND2	2.84	0.41
2:V:406:LEU:HA	2:V:449:ALA:O	2.20	0.41
2:V:408:SER:OG	2:V:409:PRO:HD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:409:PRO:HG2	2:V:454:TYR:CE1	2.56	0.41
2:V:427:VAL:HG21	2:V:516:ARG:NH2	2.36	0.41
2:W:370:VAL:HG23	2:W:370:VAL:O	2.20	0.41
2:W:478:CYS:C	2:W:480:ARG:N	2.72	0.41
2:W:498:GLN:HG3	2:W:533:TYR:HA	2.02	0.41
2:W:538:ASP:HB2	2:W:539:LYS:H	1.42	0.41
2:W:555:ARG:O	2:W:559:MET:HG3	2.20	0.41
2:X:370:VAL:HG23	2:X:370:VAL:O	2.20	0.41
2:X:381:GLU:O	2:X:382:SER:C	2.59	0.41
2:Y:236:ILE:HD11	2:Y:340:LEU:HD11	2.01	0.41
2:Y:252:LEU:HA	2:Y:253:PRO:HD3	1.81	0.41
2:Y:427:VAL:O	2:Y:431:THR:CG2	2.68	0.41
2:Z:556:LEU:HD23	2:Z:556:LEU:O	2.20	0.41
2:Z:583:SER:C	2:Z:586:THR:HG22	2.41	0.41
2:U:308:ASN:HD21	2:U:313:ASP:CB	2.34	0.41
2:U:517:LEU:HD13	2:U:524:PRO:CG	2.46	0.41
2:U:537:GLY:O	2:U:538:ASP:CB	2.68	0.41
2:V:50:LEU:HD11	2:V:65:PHE:CE1	2.55	0.41
2:V:67:SER:OG	2:V:472:ALA:HB2	2.20	0.41
2:V:100:GLU:HB2	2:V:185:GLY:HA3	2.03	0.41
2:V:236:ILE:HD11	2:V:340:LEU:HD11	2.02	0.41
2:V:554:ARG:HG2	2:V:558:ASN:OD1	2.20	0.41
2:W:61:THR:O	2:W:62:ALA:C	2.59	0.41
2:W:160:TYR:HA	2:W:161:PRO:HA	1.82	0.41
2:W:197:GLU:H	2:W:197:GLU:CD	2.23	0.41
2:W:514:ARG:HA	2:W:517:LEU:CG	2.49	0.41
2:W:554:ARG:HG2	2:W:558:ASN:OD1	2.21	0.41
2:W:556:LEU:HD23	2:W:556:LEU:O	2.20	0.41
2:X:200:ASN:O	2:X:201:ALA:C	2.59	0.41
2:X:556:LEU:HD23	2:X:556:LEU:O	2.20	0.41
2:X:629:ILE:CG2	2:X:630:GLN:N	2.83	0.41
2:Y:34:GLN:OE1	2:Y:230:LEU:HD11	2.19	0.41
2:Y:197:GLU:H	2:Y:197:GLU:CD	2.23	0.41
2:Y:404:LEU:HA	2:Y:554:ARG:HH22	1.85	0.41
2:Y:423:VAL:HG21	2:Y:513:GLN:NE2	2.35	0.41
2:Y:499:ILE:H	2:Y:499:ILE:CD1	2.25	0.41
2:Y:556:LEU:HD23	2:Y:556:LEU:O	2.21	0.41
2:Y:581:ARG:HB2	2:Y:623:PHE:HZ	1.82	0.41
2:Z:629:ILE:CG2	2:Z:630:GLN:N	2.83	0.41
1:D:19:ASP:OD2	1:D:213:TYR:OH	2.31	0.41
1:E:124:THR:HG23	1:E:126:TYR:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:61:THR:O	2:U:62:ALA:C	2.59	0.41
2:U:119:LYS:HE3	2:U:124:ASP:OD1	2.20	0.41
2:U:408:SER:OG	2:U:409:PRO:HD2	2.21	0.41
2:U:556:LEU:HD23	2:U:556:LEU:O	2.20	0.41
2:U:564:ILE:CD1	2:U:642:PHE:HB2	2.48	0.41
2:V:43:GLN:NE2	2:V:77:ASP:HB2	2.36	0.41
2:V:119:LYS:HE3	2:V:124:ASP:OD1	2.20	0.41
2:V:197:GLU:H	2:V:197:GLU:CD	2.23	0.41
2:V:445:SER:O	2:V:540:THR:O	2.39	0.41
2:V:446:THR:C	2:V:539:LYS:HE3	2.20	0.41
2:V:521:ALA:HB1	2:V:540:THR:CA	2.46	0.41
2:V:629:ILE:CG2	2:V:630:GLN:N	2.83	0.41
2:W:92:SER:OG	2:W:343:GLY:HA3	2.21	0.41
2:W:200:ASN:O	2:W:201:ALA:C	2.59	0.41
2:W:402:ASP:O	2:W:402:ASP:CG	2.59	0.41
2:W:427:VAL:HG21	2:W:516:ARG:NH2	2.36	0.41
2:W:627:PHE:CD1	2:W:627:PHE:C	2.94	0.41
2:X:119:LYS:HE3	2:X:124:ASP:OD1	2.20	0.41
2:X:498:GLN:HG3	2:X:533:TYR:HA	2.03	0.41
2:X:555:ARG:O	2:X:559:MET:HG3	2.20	0.41
2:X:583:SER:C	2:X:586:THR:HG22	2.41	0.41
2:Y:408:SER:OG	2:Y:409:PRO:HD2	2.21	0.41
2:Z:23:SER:OG	2:Z:483:ASN:CA	2.69	0.41
2:Z:391:LYS:CE	2:Z:440:ASN:ND2	2.83	0.41
2:Z:409:PRO:C	2:Z:454:TYR:CE1	2.71	0.41
2:Z:427:VAL:HG21	2:Z:516:ARG:NH2	2.35	0.41
2:Z:557:PHE:CE2	2:Z:631:PRO:CG	3.03	0.41
1:A:74:ARG:NH2	1:A:231:GLU:OE2	2.48	0.41
1:C:77:LEU:HD13	1:C:120:LEU:HD23	2.03	0.41
1:D:108:GLN:HB3	1:D:199:TYR:HB2	2.02	0.41
1:D:140:TYR:O	1:D:145:PHE:HB2	2.21	0.41
1:E:203:ASP:OD1	1:E:204:ASP:N	2.54	0.41
1:F:106:VAL:HG12	1:F:107:SER:H	1.86	0.41
2:U:406:LEU:HA	2:U:449:ALA:O	2.20	0.41
2:U:445:SER:O	2:U:540:THR:O	2.39	0.41
2:U:498:GLN:HG3	2:U:533:TYR:HA	2.03	0.41
2:V:163:LEU:HB3	2:V:164:GLY:H	1.63	0.41
2:V:200:ASN:O	2:V:201:ALA:C	2.59	0.41
2:V:514:ARG:HE	2:V:518:TYR:HE1	1.67	0.41
2:V:558:ASN:O	2:V:561:LYS:HG2	2.21	0.41
2:W:23:SER:OG	2:W:483:ASN:CA	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:90:LYS:HA	2:W:90:LYS:HD3	1.93	0.41
2:W:381:GLU:O	2:W:382:SER:C	2.59	0.41
2:X:61:THR:O	2:X:62:ALA:C	2.59	0.41
2:X:215:LYS:HE3	2:X:329:ASN:CG	2.42	0.41
2:X:304:ILE:HG13	2:X:305:TYR:HE2	1.81	0.41
2:X:445:SER:O	2:X:540:THR:O	2.39	0.41
2:X:448:ALA:O	2:X:540:THR:N	2.42	0.41
2:X:511:GLN:HE21	2:X:511:GLN:CA	2.30	0.41
2:Y:409:PRO:HG2	2:Y:454:TYR:CE1	2.56	0.41
2:Y:423:VAL:O	2:Y:424:ASP:C	2.58	0.41
2:Y:554:ARG:HG2	2:Y:558:ASN:OD1	2.20	0.41
2:Y:605:ARG:HG2	2:Y:608:CYS:H	1.86	0.41
2:Z:50:LEU:HD11	2:Z:65:PHE:CE1	2.56	0.41
2:Z:92:SER:OG	2:Z:343:GLY:HA3	2.21	0.41
2:Z:347:ASN:HA	2:Z:350:VAL:HG23	2.03	0.41
2:Z:406:LEU:HA	2:Z:449:ALA:O	2.20	0.41
2:Z:408:SER:OG	2:Z:409:PRO:HD2	2.21	0.41
2:Z:514:ARG:HA	2:Z:517:LEU:CG	2.49	0.41
2:Z:556:LEU:HD13	2:Z:631:PRO:HA	2.01	0.41
1:C:124:THR:CB	1:C:130:MET:HG2	2.50	0.41
1:C:157:ILE:HD12	2:W:579:PHE:HD2	1.85	0.41
2:U:544:VAL:HG12	2:U:545:PRO:CD	2.51	0.41
2:U:554:ARG:HG2	2:U:558:ASN:OD1	2.21	0.41
2:V:423:VAL:O	2:V:424:ASP:C	2.59	0.41
2:V:544:VAL:HG12	2:V:545:PRO:CD	2.51	0.41
2:W:290:VAL:HG11	2:W:322:TYR:CE1	2.56	0.41
2:W:537:GLY:O	2:W:538:ASP:CB	2.68	0.41
2:W:627:PHE:CZ	2:W:640:LEU:CB	2.95	0.41
2:X:100:GLU:HB2	2:X:185:GLY:HA3	2.03	0.41
2:X:404:LEU:HD23	2:X:404:LEU:HA	1.91	0.41
2:Y:537:GLY:O	2:Y:538:ASP:CB	2.68	0.41
2:Y:557:PHE:CE2	2:Y:631:PRO:CG	3.02	0.41
2:Y:573:PHE:HD2	2:Y:574:GLU:OE2	2.04	0.41
2:Z:427:VAL:O	2:Z:431:THR:CG2	2.68	0.41
2:Z:544:VAL:HG12	2:Z:545:PRO:CD	2.51	0.41
1:B:149:MET:HG3	1:B:212:THR:O	2.21	0.40
1:C:39:VAL:HA	1:C:40:PRO:HD2	1.88	0.40
2:U:404:LEU:HD23	2:U:404:LEU:HA	1.91	0.40
2:U:409:PRO:HG2	2:U:454:TYR:CE1	2.56	0.40
2:U:427:VAL:HG21	2:U:516:ARG:NH2	2.35	0.40
2:U:526:THR:CG2	2:U:535:LEU:CD2	2.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:621:ASN:HD22	2:U:621:ASN:HA	1.64	0.40
2:V:402:ASP:O	2:V:402:ASP:CG	2.59	0.40
2:V:621:ASN:HD22	2:V:621:ASN:HA	1.63	0.40
2:W:119:LYS:HE3	2:W:124:ASP:OD1	2.21	0.40
2:W:450:ILE:HG22	2:W:540:THR:HG21	2.01	0.40
2:W:629:ILE:CG2	2:W:630:GLN:N	2.83	0.40
2:X:308:ASN:HD21	2:X:313:ASP:CB	2.34	0.40
2:X:478:CYS:C	2:X:480:ARG:N	2.73	0.40
2:X:580:THR:O	2:X:584:PHE:CD1	2.73	0.40
2:X:624:VAL:CG1	2:X:643:VAL:HB	2.51	0.40
2:Y:90:LYS:N	2:Y:344:LEU:O	2.48	0.40
2:Y:92:SER:OG	2:Y:343:GLY:HA3	2.21	0.40
2:Y:100:GLU:HG3	2:Y:186:LYS:N	2.31	0.40
2:Y:427:VAL:HG21	2:Y:516:ARG:NH2	2.35	0.40
2:Y:445:SER:O	2:Y:540:THR:O	2.39	0.40
2:Y:575:LEU:N	2:Y:575:LEU:CD1	2.83	0.40
2:Z:576:ASN:CA	2:Z:580:THR:HG21	2.49	0.40
2:Z:586:THR:CG2	2:Z:587:GLU:N	2.85	0.40
1:A:150:TYR:O	1:A:211:THR:HA	2.21	0.40
1:B:157:ILE:HD12	2:V:579:PHE:HD2	1.86	0.40
1:B:211:THR:HB	1:B:223:LEU:HB3	2.04	0.40
1:F:223:LEU:HA	1:F:224:PRO:HD3	1.86	0.40
2:U:73:GLN:HB3	2:U:500:LEU:CD1	2.51	0.40
2:U:100:GLU:HB2	2:U:185:GLY:HA3	2.03	0.40
2:U:391:LYS:CE	2:U:440:ASN:ND2	2.84	0.40
2:U:423:VAL:O	2:U:424:ASP:C	2.59	0.40
2:V:556:LEU:HD23	2:V:556:LEU:C	2.42	0.40
2:V:627:PHE:CD1	2:V:629:ILE:CG1	3.04	0.40
2:W:558:ASN:O	2:W:561:LYS:HG2	2.21	0.40
2:W:614:THR:HB	2:W:620:ARG:CA	2.40	0.40
2:W:627:PHE:CD1	2:W:629:ILE:CG1	3.04	0.40
2:Y:290:VAL:HG11	2:Y:322:TYR:CE1	2.56	0.40
2:Y:308:ASN:HD21	2:Y:313:ASP:CB	2.34	0.40
2:Y:544:VAL:HG12	2:Y:545:PRO:CD	2.51	0.40
2:Y:627:PHE:CD1	2:Y:629:ILE:CG1	3.04	0.40
2:Z:73:GLN:HB3	2:Z:500:LEU:CD1	2.51	0.40
1:F:114:ILE:HD12	1:F:198:MET:HE3	2.02	0.40
2:U:92:SER:OG	2:U:343:GLY:HA3	2.22	0.40
2:U:215:LYS:HE3	2:U:329:ASN:CG	2.42	0.40
2:U:575:LEU:N	2:U:575:LEU:CD1	2.83	0.40
2:U:605:ARG:HG2	2:U:608:CYS:H	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:23:SER:HB2	2:V:559:MET:SD	2.59	0.40
2:V:74:TYR:OH	2:V:473:ASP:OD2	2.35	0.40
2:W:90:LYS:N	2:W:344:LEU:O	2.48	0.40
2:W:100:GLU:HB2	2:W:185:GLY:HA3	2.04	0.40
2:W:404:LEU:HA	2:W:554:ARG:HH22	1.86	0.40
2:W:406:LEU:HA	2:W:449:ALA:O	2.20	0.40
2:X:66:MET:O	2:X:67:SER:C	2.60	0.40
2:X:92:SER:OG	2:X:343:GLY:HA3	2.21	0.40
2:Y:381:GLU:O	2:Y:382:SER:C	2.60	0.40
2:Y:558:ASN:O	2:Y:561:LYS:HG2	2.21	0.40
2:Z:66:MET:O	2:Z:67:SER:C	2.60	0.40
2:Z:308:ASN:HD21	2:Z:313:ASP:CB	2.34	0.40
2:Z:573:PHE:HD2	2:Z:574:GLU:OE2	2.04	0.40
1:C:157:ILE:HD12	2:W:579:PHE:CB	2.37	0.40
1:F:115:LYS:HE3	1:F:115:LYS:HB2	1.77	0.40
2:U:43:GLN:NE2	2:U:77:ASP:HB2	2.37	0.40
2:U:46:ASN:HB2	2:U:49:ASP:CB	2.51	0.40
2:U:100:GLU:HG3	2:U:186:LYS:N	2.32	0.40
2:U:381:GLU:O	2:U:382:SER:C	2.59	0.40
2:U:478:CYS:C	2:U:480:ARG:N	2.72	0.40
2:V:290:VAL:HG11	2:V:322:TYR:CE1	2.56	0.40
2:V:627:PHE:CD1	2:V:627:PHE:C	2.95	0.40
2:W:43:GLN:NE2	2:W:77:ASP:HB2	2.36	0.40
2:W:50:LEU:HD11	2:W:65:PHE:CE1	2.56	0.40
2:X:104:SER:HB2	2:X:181:VAL:HG12	2.03	0.40
2:X:554:ARG:HG2	2:X:558:ASN:OD1	2.21	0.40
2:Y:66:MET:O	2:Y:67:SER:C	2.60	0.40
2:Y:68:ALA:O	2:Y:69:MET:C	2.58	0.40
2:Y:317:LYS:HE3	2:Y:317:LYS:HB2	1.97	0.40
2:Y:498:GLN:HG3	2:Y:533:TYR:HA	2.03	0.40
1:A:110:ASN:HA	1:A:111:PRO:HD3	1.71	0.40
1:A:130:MET:HE2	1:A:188:TRP:CD2	2.57	0.40
1:A:156:ASP:CG	2:U:579:PHE:HE1	2.17	0.40
2:V:514:ARG:HA	2:V:517:LEU:CG	2.49	0.40
2:V:627:PHE:CZ	2:V:640:LEU:CB	2.95	0.40
2:W:66:MET:O	2:W:67:SER:C	2.60	0.40
2:X:73:GLN:HB3	2:X:500:LEU:CD1	2.52	0.40
2:X:404:LEU:HA	2:X:554:ARG:HH22	1.86	0.40
2:X:427:VAL:HG21	2:X:516:ARG:NH2	2.36	0.40
2:X:514:ARG:HA	2:X:517:LEU:CD2	2.51	0.40
2:X:564:ILE:HD11	2:X:642:PHE:CB	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:590:GLN:HE21	2:X:590:GLN:HB3	1.65	0.40
2:Y:215:LYS:HE3	2:Y:329:ASN:CG	2.42	0.40
2:Y:526:THR:CG2	2:Y:535:LEU:CD2	2.95	0.40
2:Y:556:LEU:HD13	2:Y:631:PRO:HA	2.03	0.40
2:Y:586:THR:CG2	2:Y:587:GLU:N	2.85	0.40
2:Y:629:ILE:CG2	2:Y:630:GLN:N	2.83	0.40
2:Z:22:ASN:O	2:Z:23:SER:CB	2.70	0.40
2:Z:90:LYS:N	2:Z:344:LEU:O	2.48	0.40
2:Z:521:ALA:HB1	2:Z:540:THR:CA	2.46	0.40
2:Z:558:ASN:O	2:Z:561:LYS:HG2	2.22	0.40
2:Z:616:SER:O	2:Z:617:VAL:HG13	2.22	0.40
2:Z:627:PHE:CD1	2:Z:627:PHE:C	2.94	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	205/272 (75%)	184 (90%)	18 (9%)	3 (2%)	10	46
1	B	205/272 (75%)	184 (90%)	17 (8%)	4 (2%)	7	38
1	C	205/272 (75%)	184 (90%)	17 (8%)	4 (2%)	7	38
1	D	205/272 (75%)	184 (90%)	17 (8%)	4 (2%)	7	38
1	E	205/272 (75%)	183 (89%)	18 (9%)	4 (2%)	7	38
1	F	205/272 (75%)	184 (90%)	18 (9%)	3 (2%)	10	46
2	U	601/659 (91%)	479 (80%)	101 (17%)	21 (4%)	3	25
2	V	601/659 (91%)	480 (80%)	100 (17%)	21 (4%)	3	25
2	W	601/659 (91%)	479 (80%)	101 (17%)	21 (4%)	3	25
2	X	601/659 (91%)	479 (80%)	101 (17%)	21 (4%)	3	25

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	Y	601/659 (91%)	479 (80%)	101 (17%)	21 (4%)	3	25
2	Z	601/659 (91%)	480 (80%)	100 (17%)	21 (4%)	3	25
All	All	4836/5586 (87%)	3979 (82%)	709 (15%)	148 (3%)	7	27

All (148) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	108	GLN
1	B	67	LYS
1	B	108	GLN
1	C	67	LYS
1	C	108	GLN
1	D	67	LYS
1	E	67	LYS
1	E	108	GLN
1	F	67	LYS
2	U	98	ASN
2	U	201	ALA
2	U	432	ALA
2	U	538	ASP
2	U	539	LYS
2	V	98	ASN
2	V	201	ALA
2	V	432	ALA
2	V	538	ASP
2	V	539	LYS
2	W	98	ASN
2	W	201	ALA
2	W	432	ALA
2	W	538	ASP
2	W	539	LYS
2	X	98	ASN
2	X	201	ALA
2	X	432	ALA
2	X	538	ASP
2	X	539	LYS
2	Y	98	ASN
2	Y	201	ALA
2	Y	432	ALA
2	Y	538	ASP
2	Y	539	LYS

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Mol	Chain	Res	Type
2	Z	98	ASN
2	Z	201	ALA
2	Z	432	ALA
2	Z	538	ASP
2	Z	539	LYS
1	D	108	GLN
1	F	108	GLN
2	U	403	CYS
2	U	480	ARG
2	U	504	LYS
2	V	403	CYS
2	V	480	ARG
2	V	504	LYS
2	W	403	CYS
2	W	480	ARG
2	W	504	LYS
2	X	403	CYS
2	X	480	ARG
2	X	504	LYS
2	Y	403	CYS
2	Y	480	ARG
2	Y	504	LYS
2	Z	403	CYS
2	Z	480	ARG
2	Z	504	LYS
1	A	67	LYS
1	F	111	PRO
2	U	62	ALA
2	U	311	ILE
2	U	348	ALA
2	U	482	ASP
2	U	531	ASP
2	V	62	ALA
2	V	348	ALA
2	V	482	ASP
2	V	531	ASP
2	W	62	ALA
2	W	311	ILE
2	W	348	ALA
2	W	482	ASP
2	W	531	ASP
2	X	62	ALA

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Mol	Chain	Res	Type
2	X	311	ILE
2	X	348	ALA
2	X	482	ASP
2	X	531	ASP
2	Y	62	ALA
2	Y	311	ILE
2	Y	348	ALA
2	Y	482	ASP
2	Y	531	ASP
2	Z	62	ALA
2	Z	348	ALA
2	Z	482	ASP
2	Z	531	ASP
1	A	111	PRO
1	E	111	PRO
2	U	634	SER
2	V	311	ILE
2	V	634	SER
2	W	634	SER
2	X	634	SER
2	Y	634	SER
2	Z	311	ILE
2	Z	634	SER
1	B	111	PRO
1	B	175	ALA
1	C	111	PRO
1	D	175	ALA
1	E	175	ALA
2	U	583	SER
2	V	25	GLY
2	V	583	SER
2	W	583	SER
2	X	25	GLY
2	X	583	SER
2	Y	583	SER
2	Z	583	SER
2	U	25	GLY
2	U	304	ILE
2	V	304	ILE
2	W	25	GLY
2	Y	25	GLY
2	Y	304	ILE

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Mol	Chain	Res	Type
2	Z	25	GLY
2	Z	304	ILE
2	W	304	ILE
2	X	304	ILE
2	Z	247	GLY
2	Z	434	GLY
1	D	111	PRO
2	U	247	GLY
2	U	434	GLY
2	V	247	GLY
2	V	318	GLY
2	V	434	GLY
2	W	247	GLY
2	W	434	GLY
2	X	434	GLY
2	Y	247	GLY
2	Y	434	GLY
1	C	106	VAL
2	U	318	GLY
2	X	247	GLY
2	X	318	GLY
2	U	121	VAL
2	W	121	VAL
2	W	318	GLY
2	X	121	VAL
2	Y	121	VAL
2	Y	318	GLY
2	Z	121	VAL
2	Z	318	GLY
2	V	121	VAL

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	192/250 (77%)	176 (92%)	16 (8%)	11 34

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	192/250 (77%)	181 (94%)	11 (6%)	20	45
1	C	192/250 (77%)	176 (92%)	16 (8%)	11	34
1	D	192/250 (77%)	180 (94%)	12 (6%)	18	43
1	E	192/250 (77%)	180 (94%)	12 (6%)	18	43
1	F	192/250 (77%)	179 (93%)	13 (7%)	16	41
2	U	494/536 (92%)	446 (90%)	48 (10%)	8	27
2	V	494/536 (92%)	447 (90%)	47 (10%)	8	27
2	W	494/536 (92%)	448 (91%)	46 (9%)	9	28
2	X	494/536 (92%)	448 (91%)	46 (9%)	9	28
2	Y	494/536 (92%)	446 (90%)	48 (10%)	8	27
2	Z	494/536 (92%)	446 (90%)	48 (10%)	8	27
All	All	4116/4716 (87%)	3753 (91%)	363 (9%)	13	31

All (363) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	25	GLN
1	A	31	GLU
1	A	37	ILE
1	A	45	SER
1	A	50	MET
1	A	63	GLU
1	A	68	VAL
1	A	69	GLU
1	A	109	TYR
1	A	110	ASN
1	A	114	ILE
1	A	124	THR
1	A	125	ARG
1	A	138	LEU
1	A	161	ARG
1	A	212	THR
1	B	37	ILE
1	B	45	SER
1	B	50	MET
1	B	67	LYS
1	B	78	HIS
1	B	109	TYR

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Mol	Chain	Res	Type
1	B	124	THR
1	B	125	ARG
1	B	138	LEU
1	B	161	ARG
1	B	212	THR
1	C	9	SER
1	C	25	GLN
1	C	37	ILE
1	C	45	SER
1	C	50	MET
1	C	59	ILE
1	C	67	LYS
1	C	106	VAL
1	C	107	SER
1	C	109	TYR
1	C	110	ASN
1	C	114	ILE
1	C	125	ARG
1	C	138	LEU
1	C	161	ARG
1	C	212	THR
1	D	25	GLN
1	D	45	SER
1	D	50	MET
1	D	78	HIS
1	D	106	VAL
1	D	109	TYR
1	D	110	ASN
1	D	124	THR
1	D	125	ARG
1	D	138	LEU
1	D	161	ARG
1	D	212	THR
1	E	45	SER
1	E	50	MET
1	E	59	ILE
1	E	67	LYS
1	E	109	TYR
1	E	110	ASN
1	E	114	ILE
1	E	124	THR
1	E	125	ARG

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Mol	Chain	Res	Type
1	E	138	LEU
1	E	161	ARG
1	E	212	THR
1	F	25	GLN
1	F	37	ILE
1	F	45	SER
1	F	50	MET
1	F	59	ILE
1	F	67	LYS
1	F	106	VAL
1	F	109	TYR
1	F	124	THR
1	F	125	ARG
1	F	138	LEU
1	F	161	ARG
1	F	212	THR
2	U	50	LEU
2	U	58	THR
2	U	66	MET
2	U	67	SER
2	U	71	PHE
2	U	74	TYR
2	U	77	ASP
2	U	80	VAL
2	U	86	ARG
2	U	95	ILE
2	U	102	THR
2	U	150	ILE
2	U	162	THR
2	U	178	LEU
2	U	188	ILE
2	U	189	THR
2	U	202	GLU
2	U	213	ASN
2	U	290	VAL
2	U	345	SER
2	U	347	ASN
2	U	349	GLU
2	U	354	ASP
2	U	367	SER
2	U	368	VAL
2	U	371	GLN

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Mol	Chain	Res	Type
2	U	382	SER
2	U	383	LEU
2	U	388	THR
2	U	395	SER
2	U	404	LEU
2	U	430	ARG
2	U	431	THR
2	U	436	TYR
2	U	437	THR
2	U	438	ASP
2	U	440	ASN
2	U	446	THR
2	U	450	ILE
2	U	453	ASN
2	U	460	LYS
2	U	483	ASN
2	U	499	ILE
2	U	501	ASN
2	U	590	GLN
2	U	593	GLN
2	U	612	ASN
2	U	621	ASN
2	V	50	LEU
2	V	58	THR
2	V	66	MET
2	V	67	SER
2	V	71	PHE
2	V	74	TYR
2	V	77	ASP
2	V	80	VAL
2	V	86	ARG
2	V	95	ILE
2	V	102	THR
2	V	150	ILE
2	V	162	THR
2	V	178	LEU
2	V	188	ILE
2	V	189	THR
2	V	202	GLU
2	V	213	ASN
2	V	290	VAL
2	V	345	SER

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Mol	Chain	Res	Type
2	V	347	ASN
2	V	349	GLU
2	V	354	ASP
2	V	367	SER
2	V	368	VAL
2	V	371	GLN
2	V	382	SER
2	V	383	LEU
2	V	388	THR
2	V	395	SER
2	V	404	LEU
2	V	431	THR
2	V	436	TYR
2	V	437	THR
2	V	438	ASP
2	V	440	ASN
2	V	446	THR
2	V	450	ILE
2	V	453	ASN
2	V	460	LYS
2	V	483	ASN
2	V	499	ILE
2	V	501	ASN
2	V	590	GLN
2	V	593	GLN
2	V	612	ASN
2	V	621	ASN
2	W	50	LEU
2	W	58	THR
2	W	66	MET
2	W	67	SER
2	W	71	PHE
2	W	74	TYR
2	W	77	ASP
2	W	80	VAL
2	W	86	ARG
2	W	95	ILE
2	W	102	THR
2	W	150	ILE
2	W	162	THR
2	W	178	LEU
2	W	188	ILE

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Mol	Chain	Res	Type
2	W	189	THR
2	W	202	GLU
2	W	213	ASN
2	W	290	VAL
2	W	345	SER
2	W	347	ASN
2	W	349	GLU
2	W	354	ASP
2	W	367	SER
2	W	368	VAL
2	W	371	GLN
2	W	382	SER
2	W	383	LEU
2	W	388	THR
2	W	395	SER
2	W	404	LEU
2	W	431	THR
2	W	436	TYR
2	W	438	ASP
2	W	440	ASN
2	W	446	THR
2	W	450	ILE
2	W	453	ASN
2	W	460	LYS
2	W	483	ASN
2	W	499	ILE
2	W	501	ASN
2	W	590	GLN
2	W	593	GLN
2	W	612	ASN
2	W	621	ASN
2	X	50	LEU
2	X	58	THR
2	X	66	MET
2	X	67	SER
2	X	71	PHE
2	X	74	TYR
2	X	77	ASP
2	X	80	VAL
2	X	86	ARG
2	X	95	ILE
2	X	102	THR

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Mol	Chain	Res	Type
2	X	150	ILE
2	X	162	THR
2	X	178	LEU
2	X	188	ILE
2	X	189	THR
2	X	202	GLU
2	X	213	ASN
2	X	290	VAL
2	X	345	SER
2	X	347	ASN
2	X	349	GLU
2	X	354	ASP
2	X	367	SER
2	X	368	VAL
2	X	371	GLN
2	X	382	SER
2	X	383	LEU
2	X	388	THR
2	X	395	SER
2	X	404	LEU
2	X	431	THR
2	X	436	TYR
2	X	438	ASP
2	X	440	ASN
2	X	446	THR
2	X	450	ILE
2	X	453	ASN
2	X	460	LYS
2	X	483	ASN
2	X	499	ILE
2	X	501	ASN
2	X	590	GLN
2	X	593	GLN
2	X	612	ASN
2	X	621	ASN
2	Y	50	LEU
2	Y	58	THR
2	Y	66	MET
2	Y	67	SER
2	Y	71	PHE
2	Y	74	TYR
2	Y	77	ASP

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Mol	Chain	Res	Type
2	Y	80	VAL
2	Y	86	ARG
2	Y	95	ILE
2	Y	102	THR
2	Y	150	ILE
2	Y	162	THR
2	Y	178	LEU
2	Y	188	ILE
2	Y	189	THR
2	Y	202	GLU
2	Y	213	ASN
2	Y	290	VAL
2	Y	345	SER
2	Y	347	ASN
2	Y	349	GLU
2	Y	354	ASP
2	Y	367	SER
2	Y	368	VAL
2	Y	371	GLN
2	Y	382	SER
2	Y	383	LEU
2	Y	388	THR
2	Y	395	SER
2	Y	404	LEU
2	Y	430	ARG
2	Y	431	THR
2	Y	436	TYR
2	Y	437	THR
2	Y	438	ASP
2	Y	440	ASN
2	Y	446	THR
2	Y	450	ILE
2	Y	453	ASN
2	Y	460	LYS
2	Y	483	ASN
2	Y	499	ILE
2	Y	501	ASN
2	Y	590	GLN
2	Y	593	GLN
2	Y	612	ASN
2	Y	621	ASN
2	Z	50	LEU

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Mol	Chain	Res	Type
2	Z	58	THR
2	Z	66	MET
2	Z	67	SER
2	Z	71	PHE
2	Z	74	TYR
2	Z	77	ASP
2	Z	80	VAL
2	Z	86	ARG
2	Z	95	ILE
2	Z	102	THR
2	Z	150	ILE
2	Z	162	THR
2	Z	178	LEU
2	Z	188	ILE
2	Z	189	THR
2	Z	202	GLU
2	Z	213	ASN
2	Z	290	VAL
2	Z	345	SER
2	Z	347	ASN
2	Z	349	GLU
2	Z	354	ASP
2	Z	367	SER
2	Z	368	VAL
2	Z	371	GLN
2	Z	382	SER
2	Z	383	LEU
2	Z	388	THR
2	Z	395	SER
2	Z	404	LEU
2	Z	430	ARG
2	Z	431	THR
2	Z	436	TYR
2	Z	437	THR
2	Z	438	ASP
2	Z	440	ASN
2	Z	446	THR
2	Z	450	ILE
2	Z	453	ASN
2	Z	460	LYS
2	Z	483	ASN
2	Z	499	ILE

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Mol	Chain	Res	Type
2	Z	501	ASN
2	Z	590	GLN
2	Z	593	GLN
2	Z	612	ASN
2	Z	621	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (100) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	152	GLN
2	U	43	GLN
2	U	70	ASN
2	U	213	ASN
2	U	278	GLN
2	U	390	GLN
2	U	440	ASN
2	U	453	ASN
2	U	457	GLN
2	U	511	GLN
2	U	513	GLN
2	U	523	ASN
2	U	590	GLN
2	U	612	ASN
2	U	621	ASN
2	U	630	GLN
2	U	641	ASN
2	V	43	GLN
2	V	70	ASN
2	V	213	ASN
2	V	278	GLN
2	V	329	ASN
2	V	390	GLN
2	V	440	ASN
2	V	453	ASN
2	V	457	GLN
2	V	511	GLN
2	V	513	GLN
2	V	523	ASN
2	V	590	GLN
2	V	612	ASN
2	V	621	ASN
2	V	630	GLN

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Mol	Chain	Res	Type
2	V	641	ASN
2	W	43	GLN
2	W	70	ASN
2	W	213	ASN
2	W	278	GLN
2	W	329	ASN
2	W	390	GLN
2	W	440	ASN
2	W	453	ASN
2	W	457	GLN
2	W	511	GLN
2	W	513	GLN
2	W	523	ASN
2	W	590	GLN
2	W	612	ASN
2	W	621	ASN
2	W	630	GLN
2	W	641	ASN
2	X	43	GLN
2	X	70	ASN
2	X	213	ASN
2	X	278	GLN
2	X	390	GLN
2	X	440	ASN
2	X	453	ASN
2	X	457	GLN
2	X	511	GLN
2	X	513	GLN
2	X	523	ASN
2	X	590	GLN
2	X	612	ASN
2	X	621	ASN
2	X	630	GLN
2	X	641	ASN
2	Y	43	GLN
2	Y	70	ASN
2	Y	213	ASN
2	Y	278	GLN
2	Y	390	GLN
2	Y	440	ASN
2	Y	453	ASN
2	Y	457	GLN

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Mol	Chain	Res	Type
2	Y	511	GLN
2	Y	513	GLN
2	Y	523	ASN
2	Y	590	GLN
2	Y	612	ASN
2	Y	621	ASN
2	Y	630	GLN
2	Y	641	ASN
2	Z	43	GLN
2	Z	70	ASN
2	Z	213	ASN
2	Z	278	GLN
2	Z	329	ASN
2	Z	390	GLN
2	Z	440	ASN
2	Z	453	ASN
2	Z	457	GLN
2	Z	511	GLN
2	Z	513	GLN
2	Z	523	ASN
2	Z	590	GLN
2	Z	612	ASN
2	Z	621	ASN
2	Z	630	GLN
2	Z	641	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

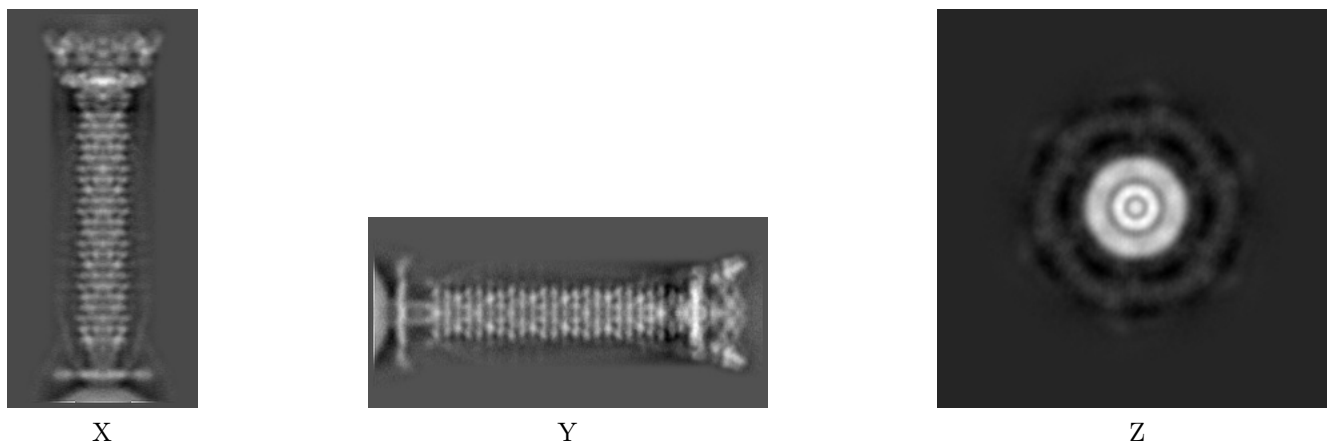
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-1126. These allow visual inspection of the internal detail of the map and identification of artifacts.

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

6.1 Orthogonal projections [i](#)

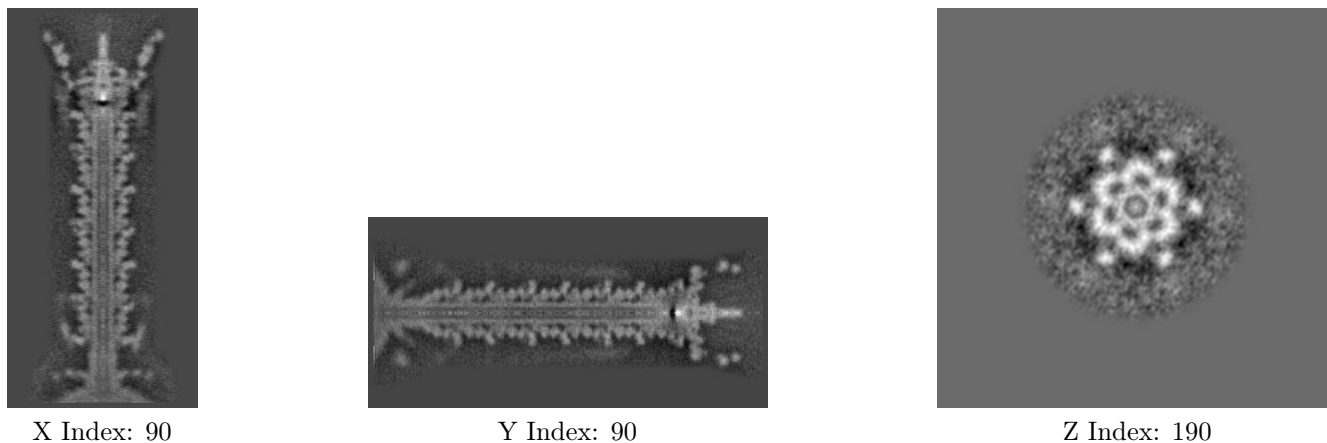
6.1.1 Primary map



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

6.2 Central slices [i](#)

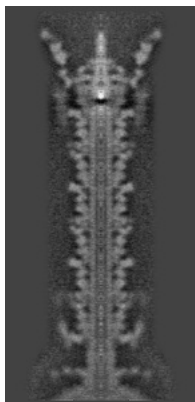
6.2.1 Primary map



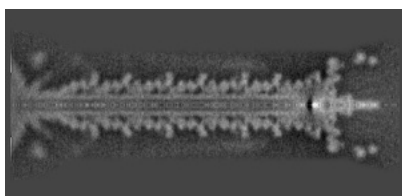
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

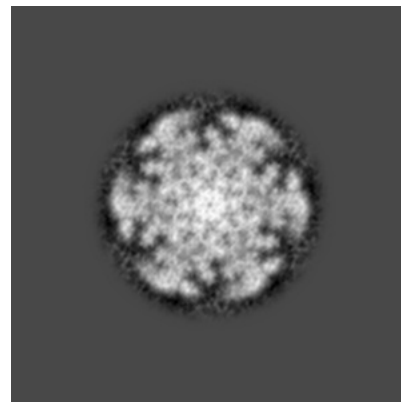
6.3.1 Primary map



X Index: 89



Y Index: 90

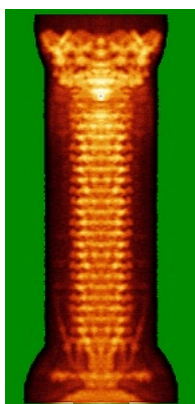


Z Index: 310

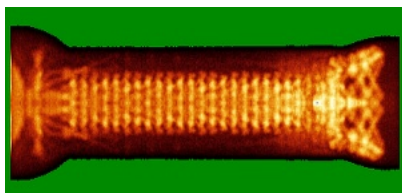
The images above show the largest variance slices of the map in three orthogonal directions.

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

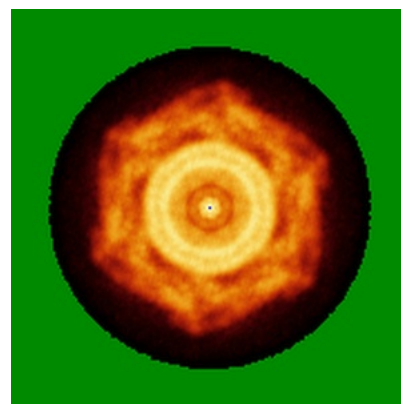
6.4.1 Primary map



X



Y

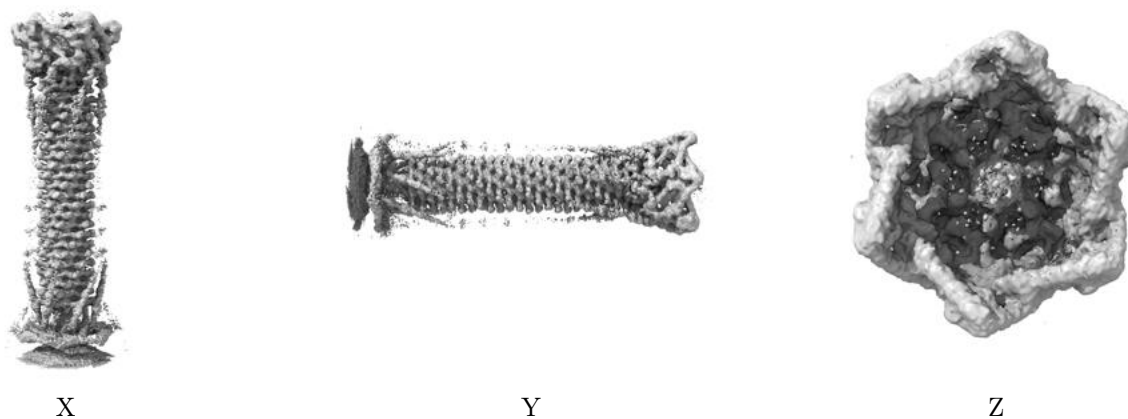


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 1.01. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

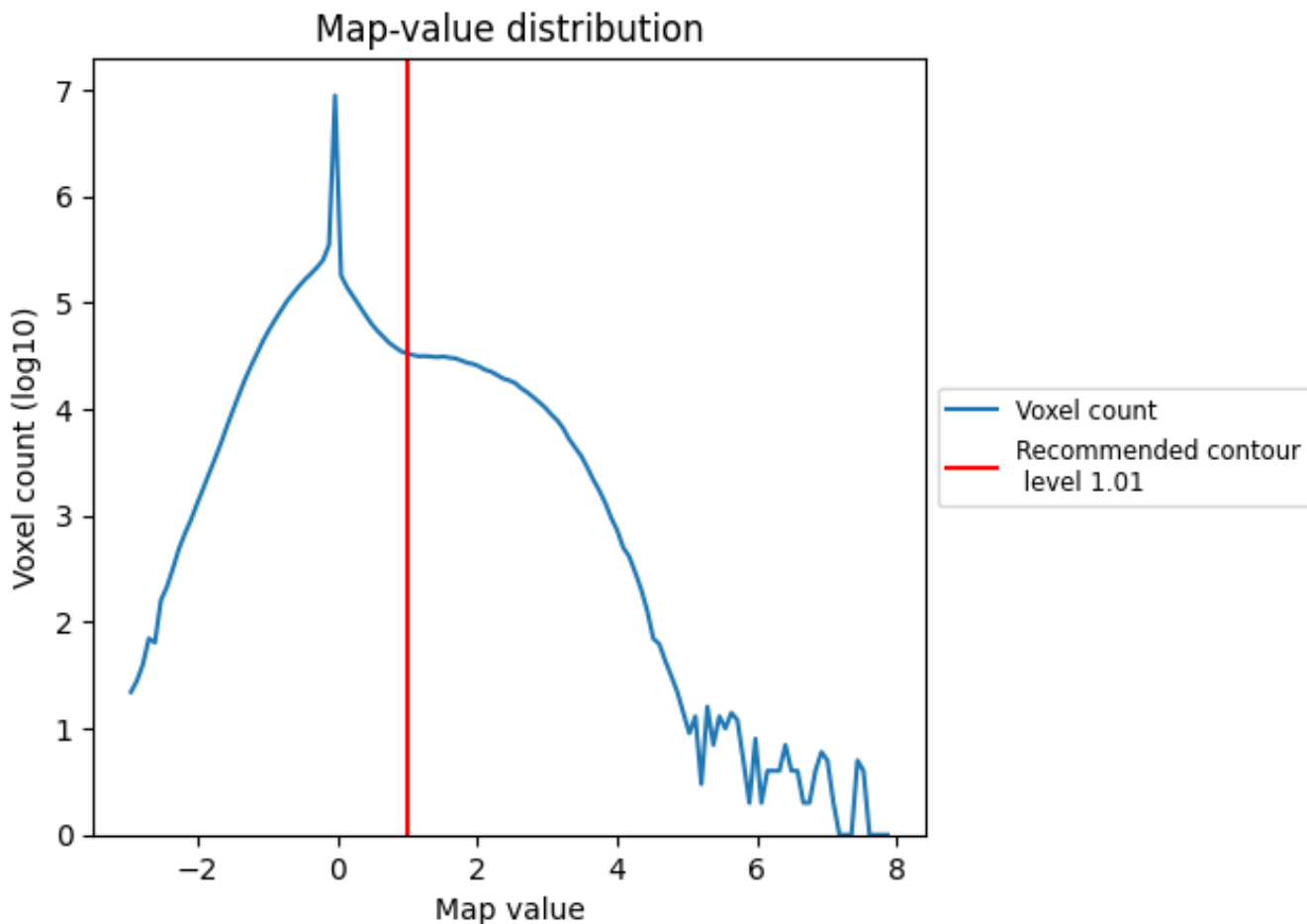
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

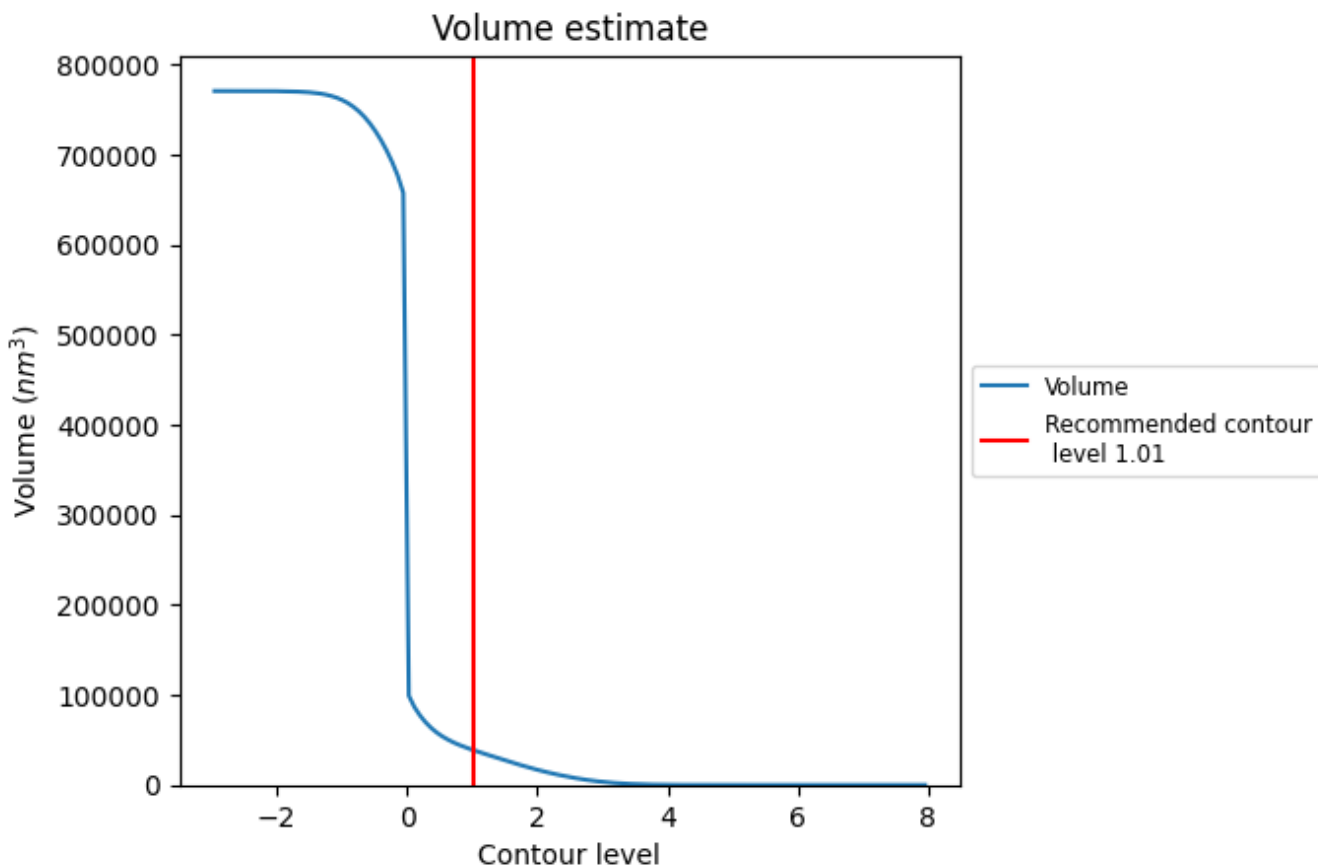
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 38892 nm³; this corresponds to an approximate mass of 35132 kDa.

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

7.3 Rotationally averaged power spectrum [\(i\)](#)

This section was not generated. The rotationally averaged power spectrum is only generated for cubic maps.

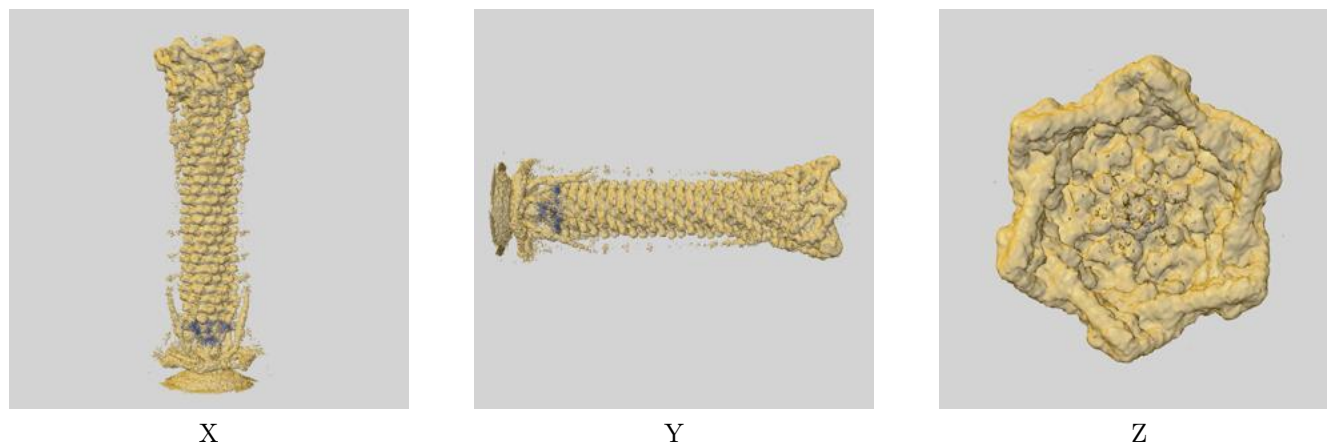
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-1126 and PDB model 3J2M. Per-residue inclusion information can be found in section 3 on page 7.

9.1 Map-model overlay [i](#)



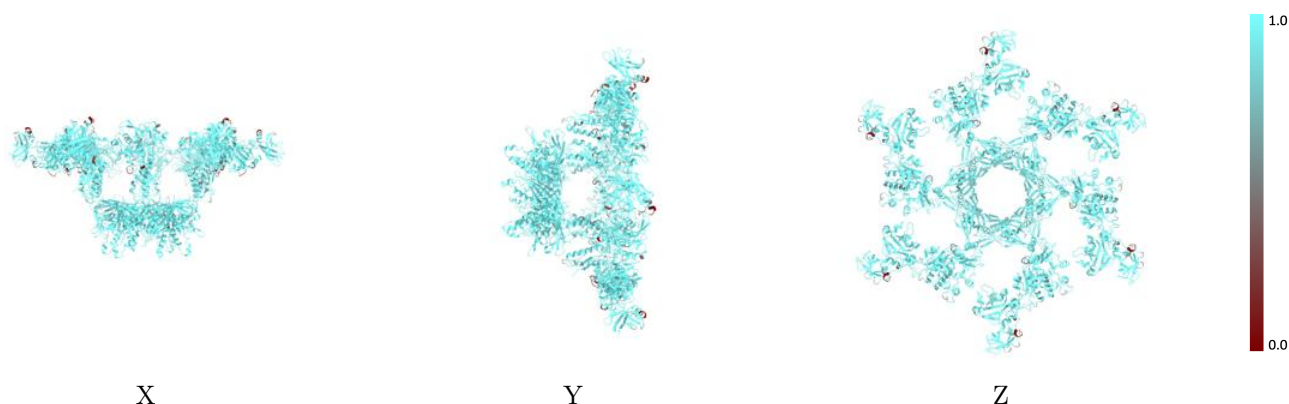
The images above show the 3D surface view of the map at the recommended contour level 1.01 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



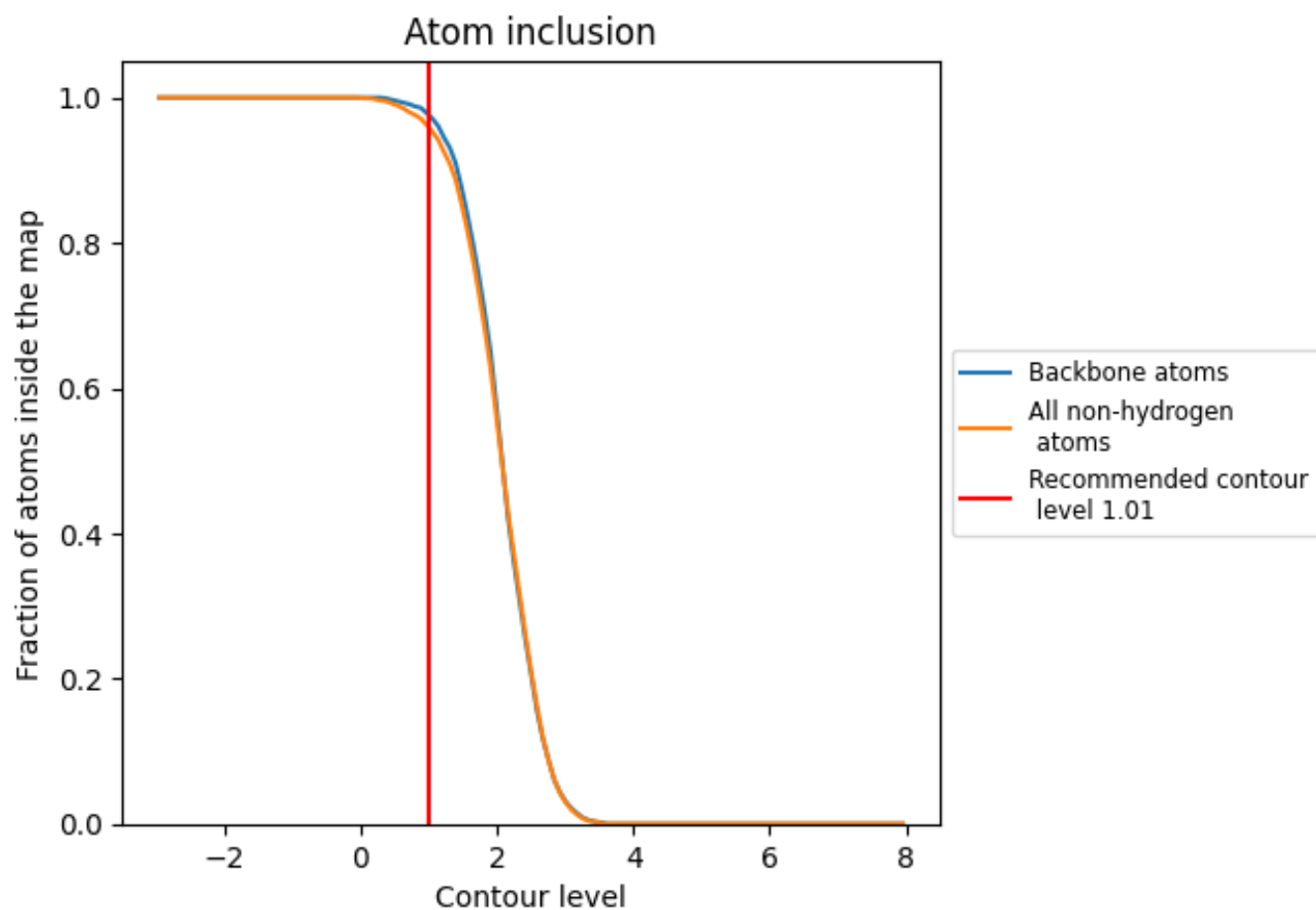
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (1.01).



























9.4 Atom inclusion [i](#)



At the recommended contour level, 98% of all backbone atoms, 96% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary [i](#)

The table lists the average atom inclusion at the recommended contour level (1.01) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9580	 0.0430
A	 0.9930	 0.0230
B	 0.9920	 0.0260
C	 0.9920	 0.0260
D	 0.9920	 0.0220
E	 0.9920	 0.0260
F	 0.9940	 0.0250
U	 0.9450	 0.0540
V	 0.9460	 0.0500
W	 0.9470	 0.0480
X	 0.9440	 0.0510
Y	 0.9460	 0.0500
Z	 0.9470	 0.0490

