Full wwPDB EM Validation Report

Mar 7, 2026 – 05:22 AM UTC

PDB ID	:	3K1Q / pdb_00003k1q
EMDB ID	:	EMD-1653
Title	:	Backbone model of an aquareovirus virion by cryo-electron microscopy and bioinformatics
Authors	:	Cheng, L.P.; Zhu, J.; Hiu, W.H.; Zhang, X.K.; Honig, B.; Fang, Q.; Zhou, Z.H.
Deposited on	:	2009-09-28
Resolution	:	4.50 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 (i) 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 (i)) were used in the production of this report:

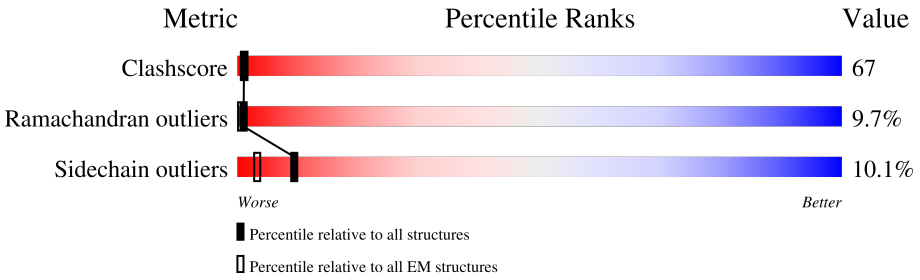
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	NOT EXECUTED
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 4.50 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	229148	23984
Ramachandran outliers	224038	23583
Sidechain outliers	223484	23102

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

Mol	Chain	Length	Quality of chain
1	A	1299	84% 20% 42% 28% 10%
2	B	1027	77% 21% 41% 27% 10%
3	C	1196	76% 23% 41% 26% 10%
4	D	412	81% 18% 37% 30% 15%
4	E	412	71% 18% 41% 30% 11%
5	F	276	94% 12% 35% 33% 20%
5	G	276	95% 12% 37% 32% 20%
5	H	276	95% 13% 34% 33% 21%

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Mol	Chain	Length	Quality of chain
5	L	276	95% 11% 38% 31% 21%
5	M	276	94% 13% 35% 32% 20%
5	N	276	100% 12% 35% 33% 20%
5	R	276	96% 13% 35% 32% 20%
5	S	276	93% 14% 32% 34% 20%
5	T	276	91% 12% 36% 32% 20%
5	Y	276	100% 13% 35% 31% 20%
6	I	639	89% 16% 36% 33% 15%
6	J	639	85% 15% 37% 34% 14%
6	K	639	86% 16% 36% 34% 15%
6	O	639	89% 16% 35% 35% 14%
6	P	639	90% 16% 35% 35% 15%
6	Q	639	89% 16% 35% 35% 14%
6	U	639	88% 17% 35% 34% 14%
6	V	639	88% 16% 35% 35% 14%
6	W	639	86% 16% 35% 35% 14%
6	X	639	90% 19% 42% 29% 10%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 101798 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 VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1299	Total	C	N	O	S	0	0
			9989	6395	1700	1866	28		

- Molecule 2 is a protein called VP3A.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	1027	Total	C	N	O	S	0	0
			7935	5067	1359	1462	47		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	455	GLU	GLN	conflict	UNP Q9E3V8

- Molecule 3 is a protein called VP3B.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	1196	Total	C	N	O	S	0	0
			9154	5805	1575	1722	52		

- Molecule 4 is a protein called Core protein VP6.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D	412	Total	C	N	O	S	0	0
			3145	2013	545	571	16		
4	E	412	Total	C	N	O	S	0	0
			3145	2013	545	571	16		

- Molecule 5 is a protein called Outer capsid VP7.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	F	276	Total	C	N	O	S	0	0
			2085	1288	378	402	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	G	276	Total	C	N	O	S	0	0
			2085	1288	378	402	17		
5	H	276	Total	C	N	O	S	0	0
			2085	1288	378	402	17		
5	L	276	Total	C	N	O	S	0	0
			2085	1288	378	402	17		
5	M	276	Total	C	N	O	S	0	0
			2085	1288	378	402	17		
5	N	276	Total	C	N	O	S	0	0
			2085	1288	378	402	17		
5	R	276	Total	C	N	O	S	0	0
			2085	1288	378	402	17		
5	S	276	Total	C	N	O	S	0	0
			2085	1288	378	402	17		
5	T	276	Total	C	N	O	S	0	0
			2085	1288	378	402	17		
5	Y	276	Total	C	N	O	S	0	0
			2085	1288	378	402	17		

- Molecule 6 is a protein called Outer capsid VP5.

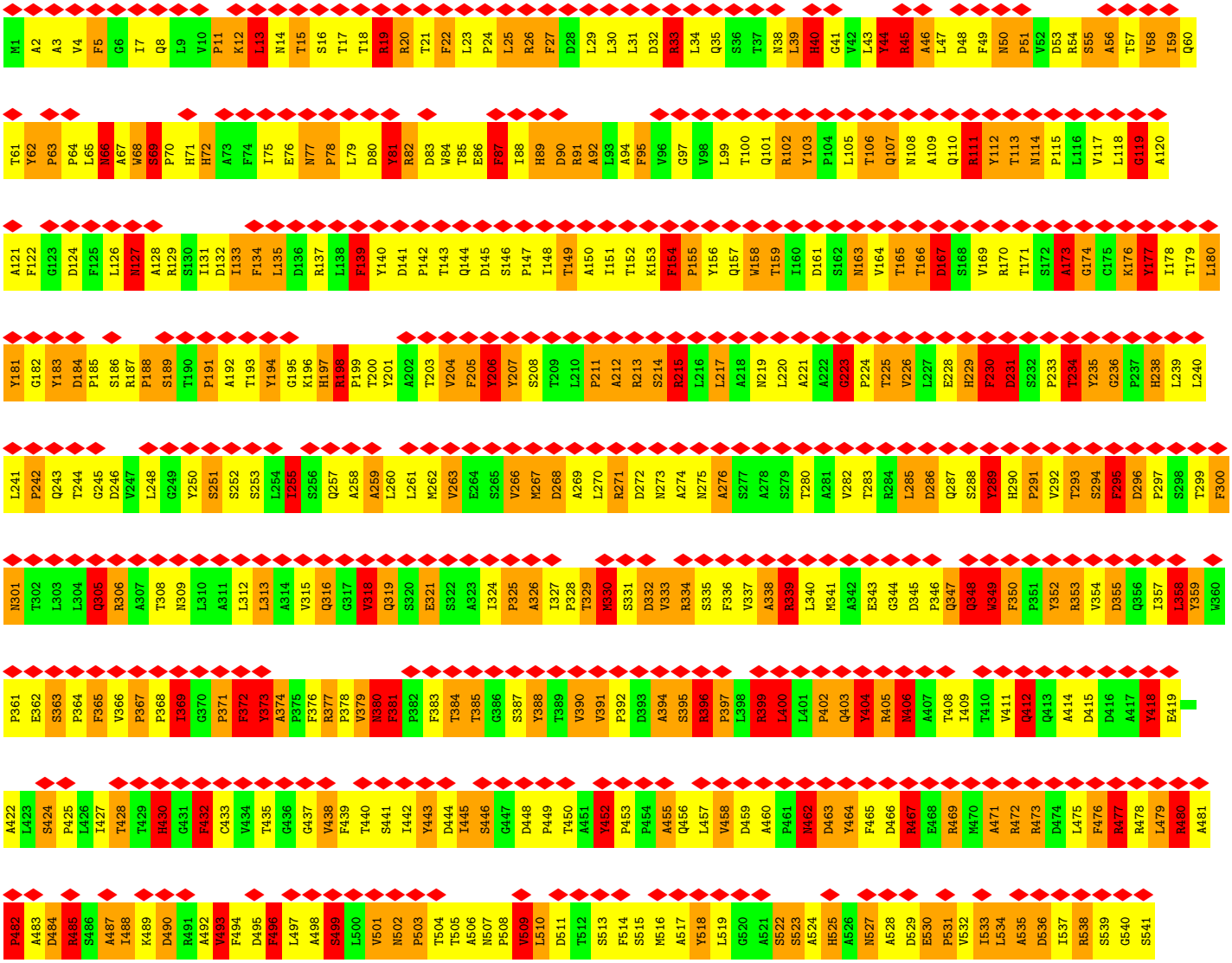
Mol	Chain	Residues	Atoms					AltConf	Trace
6	I	639	Total	C	N	O	S	0	0
			4758	3012	801	927	18		
6	J	639	Total	C	N	O	S	0	0
			4758	3012	801	927	18		
6	K	639	Total	C	N	O	S	0	0
			4758	3012	801	927	18		
6	O	639	Total	C	N	O	S	0	0
			4758	3012	801	927	18		
6	P	639	Total	C	N	O	S	0	0
			4758	3012	801	927	18		
6	Q	639	Total	C	N	O	S	0	0
			4758	3012	801	927	18		
6	U	639	Total	C	N	O	S	0	0
			4758	3012	801	927	18		
6	V	639	Total	C	N	O	S	0	0
			4758	3012	801	927	18		
6	W	639	Total	C	N	O	S	0	0
			4758	3012	801	927	18		
6	X	639	Total	C	N	O	S	0	0
			4758	3012	801	927	18		

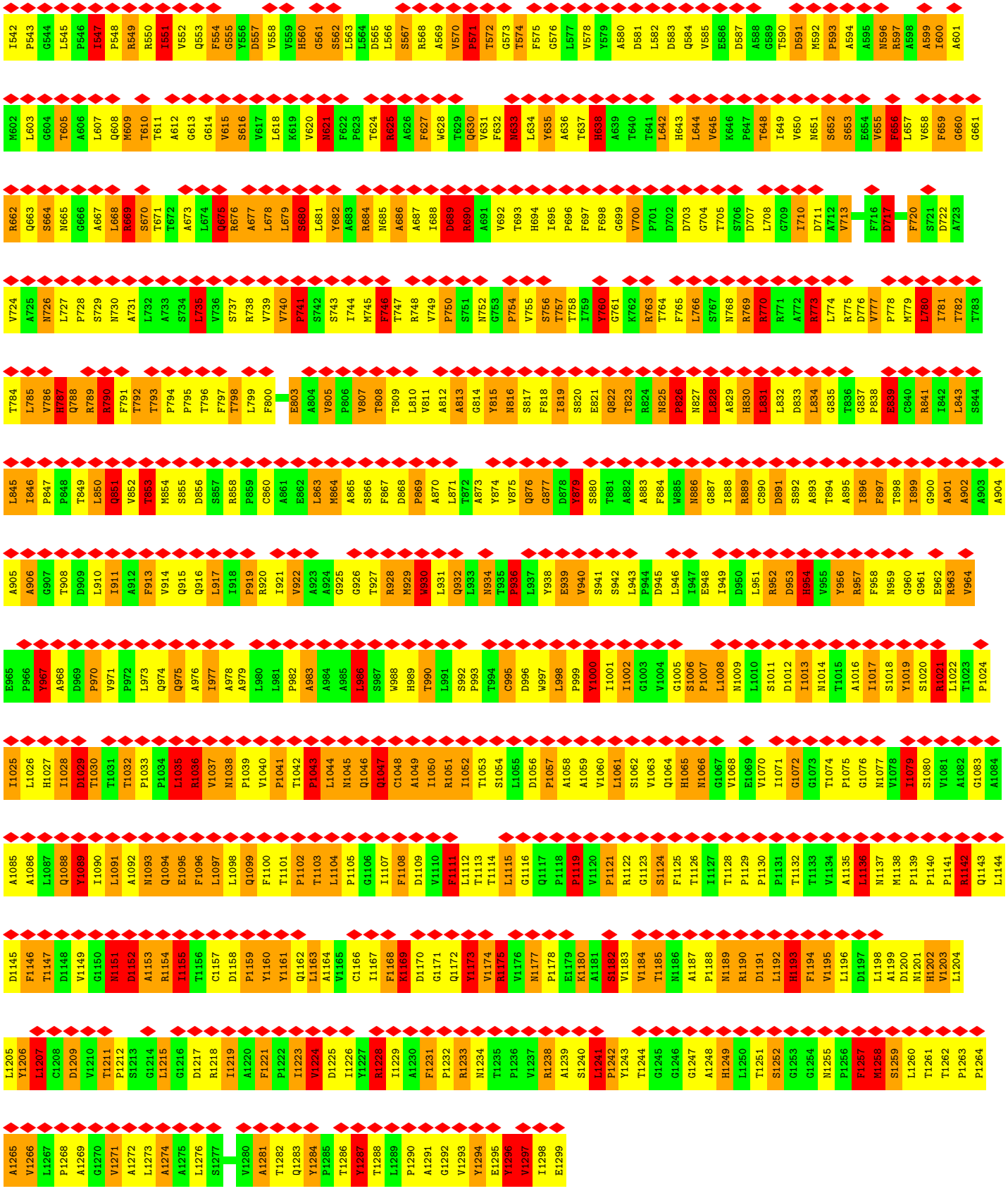
3 Residue-property plots (i)

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: VP1

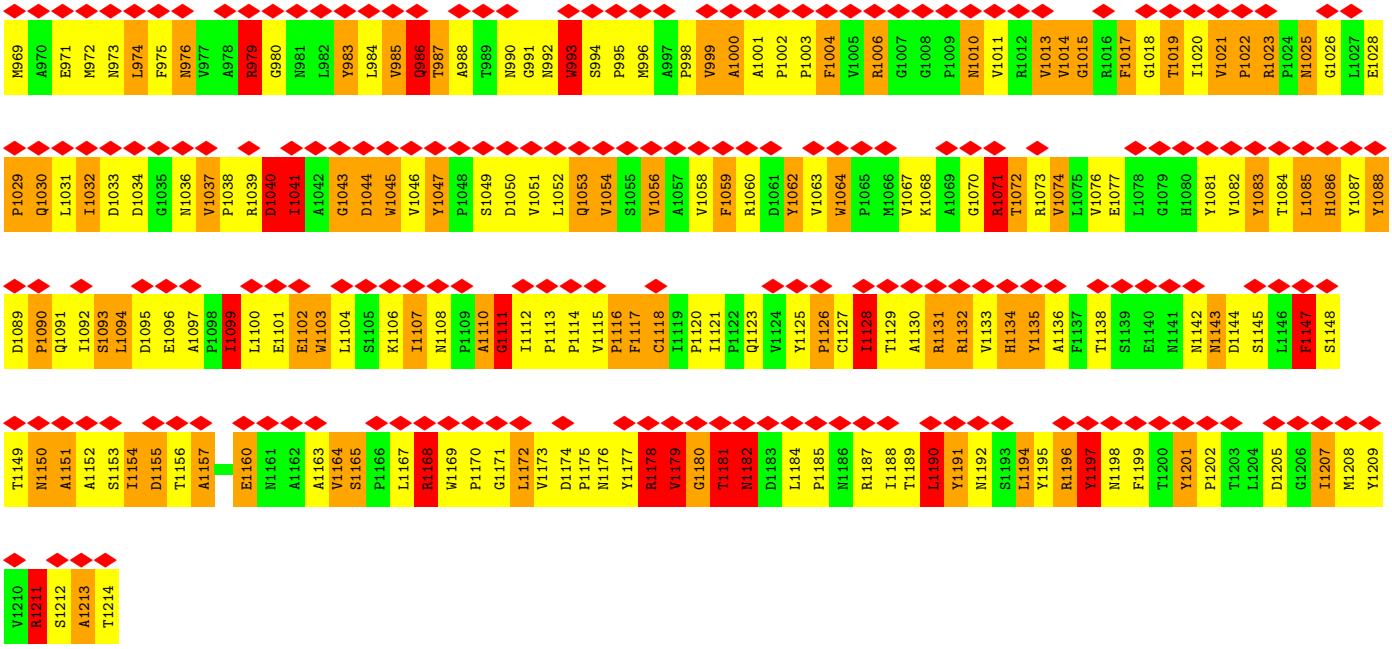
Chain A: 84% 20% 42% 28% 10%





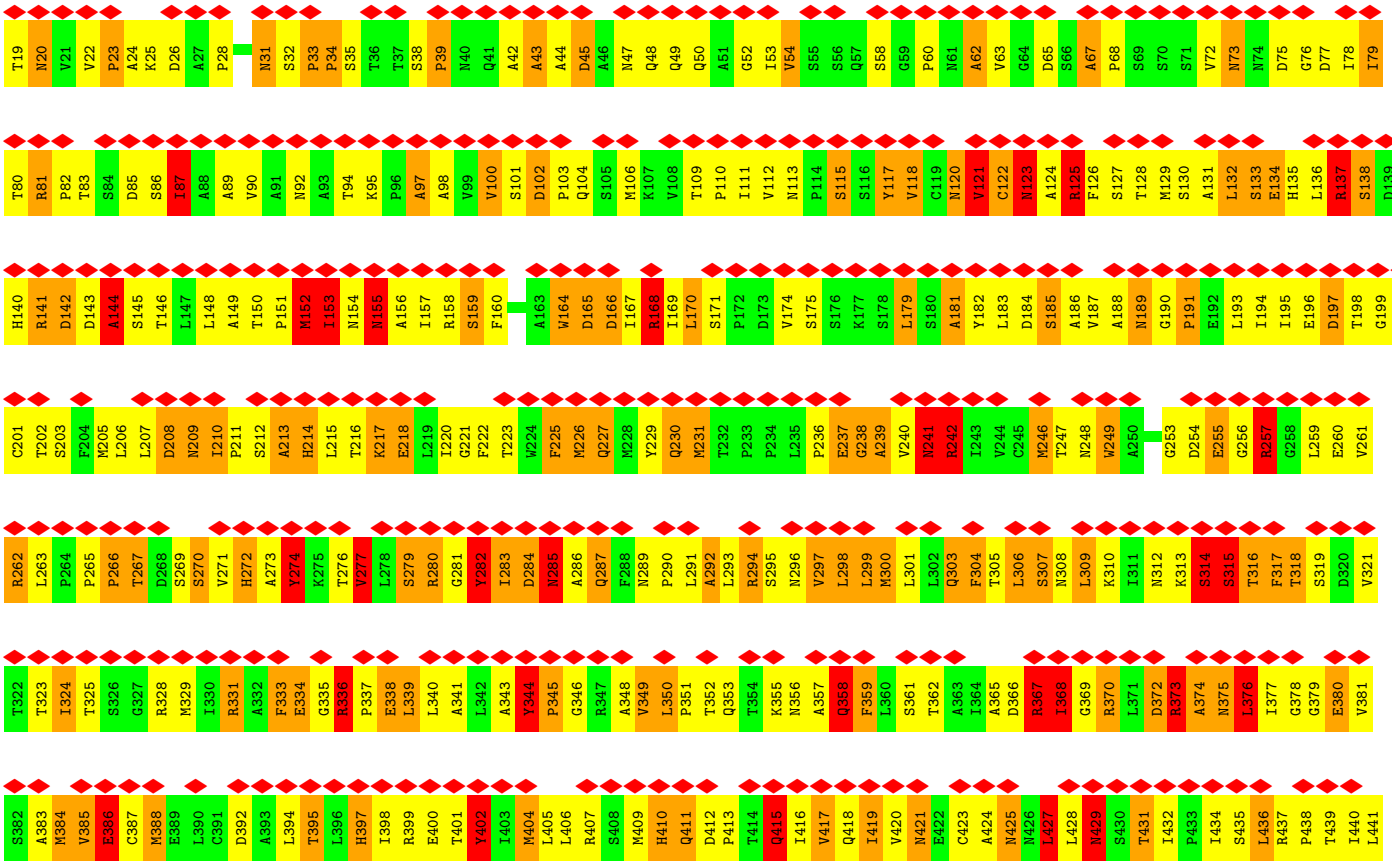
• Molecule 2: VP3A

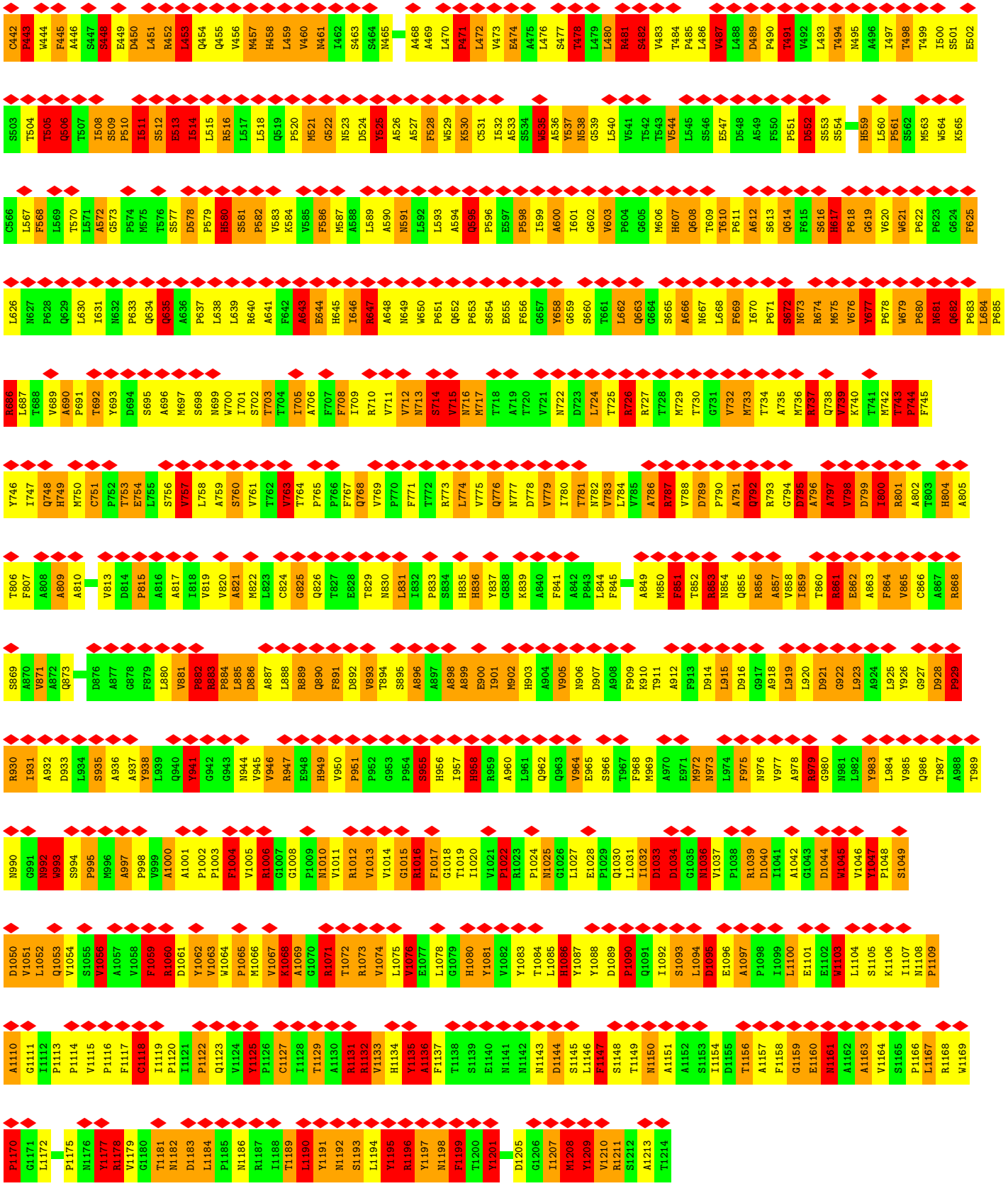
Chain B:



• Molecule 3: VP3B

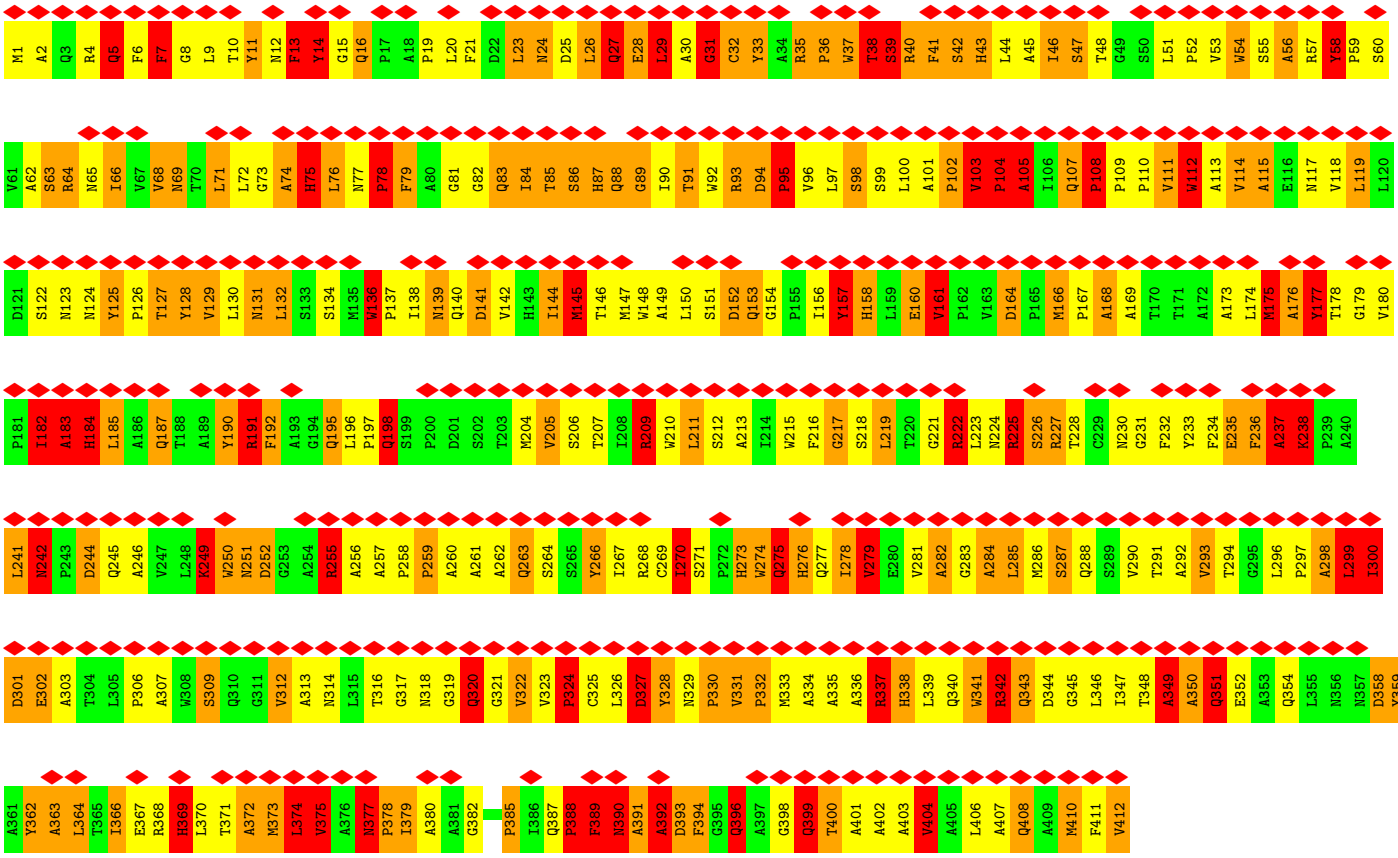
Chain C:





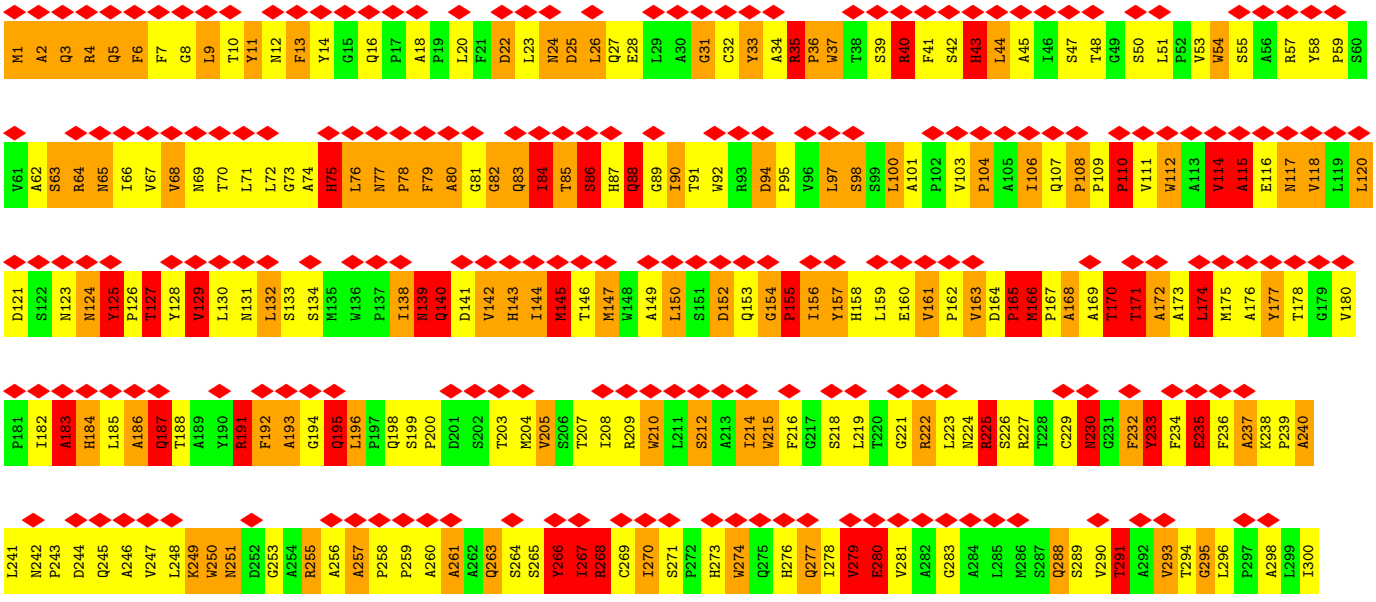
• Molecule 4: Core protein VP6

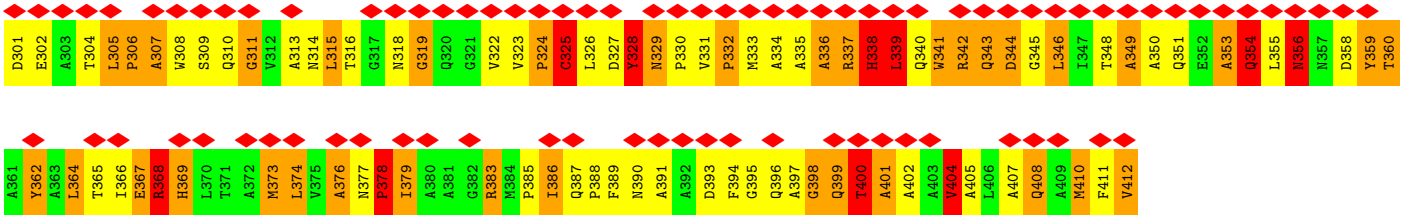
Chain D:



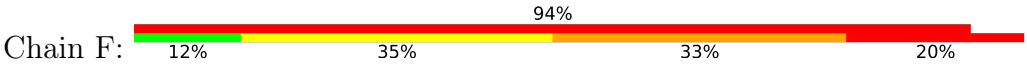
• Molecule 4: Core protein VP6

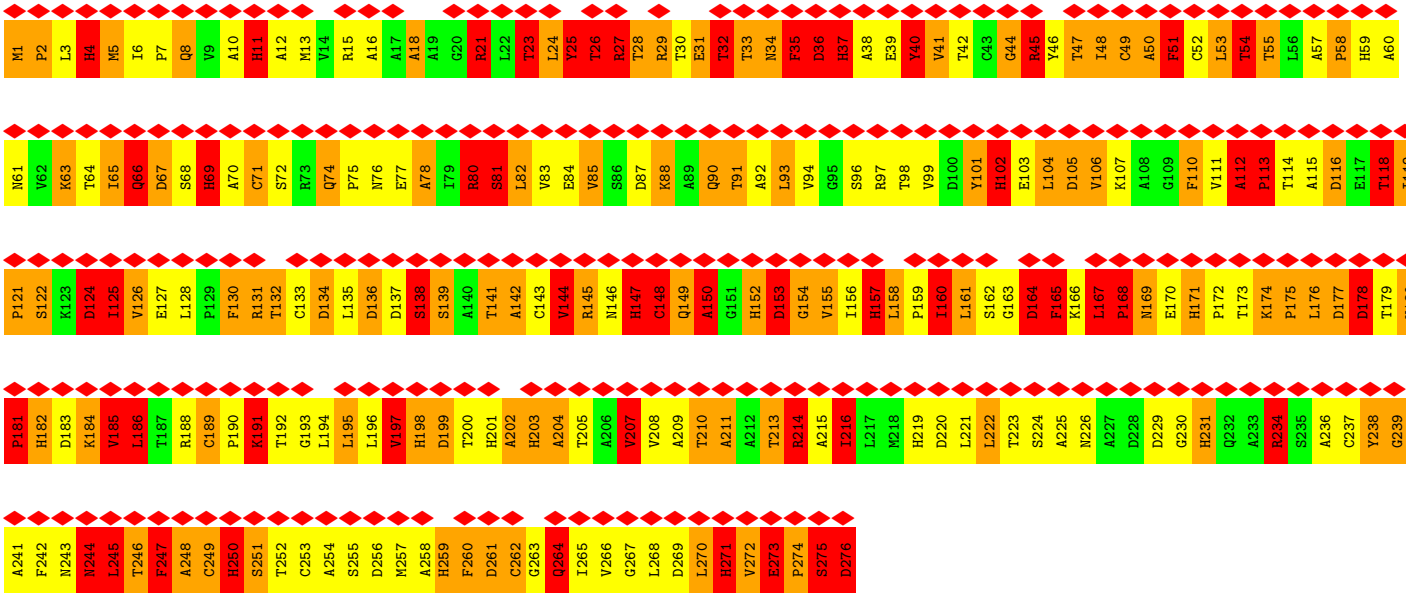
Chain E:



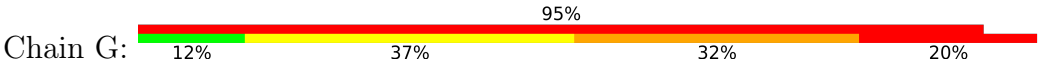


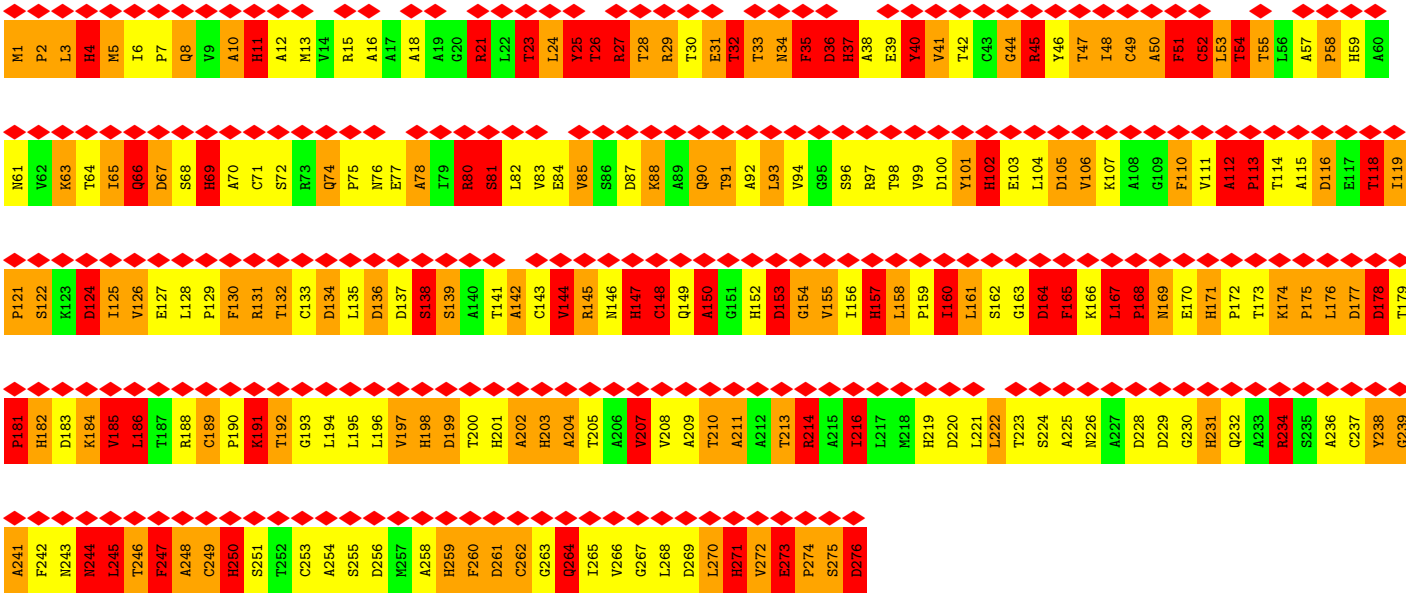
• Molecule 5: Outer capsid VP7





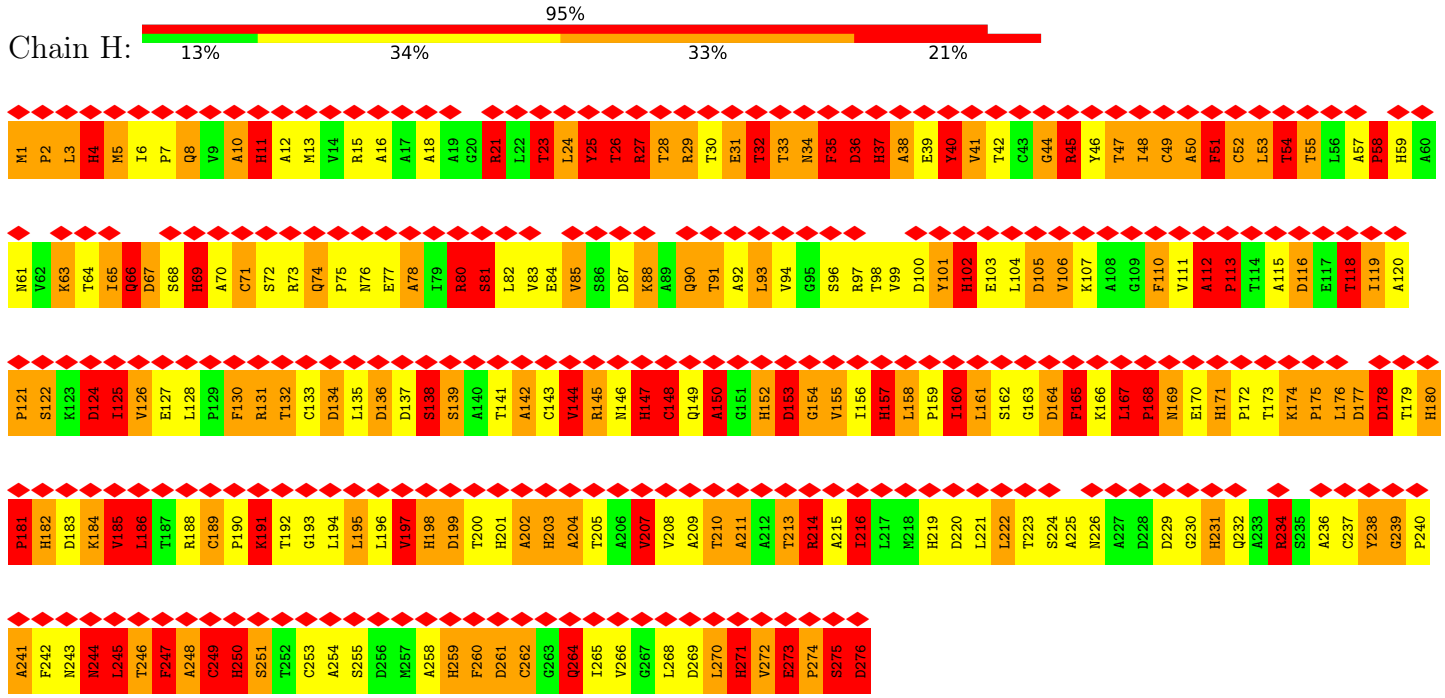
• Molecule 5: Outer capsid VP7





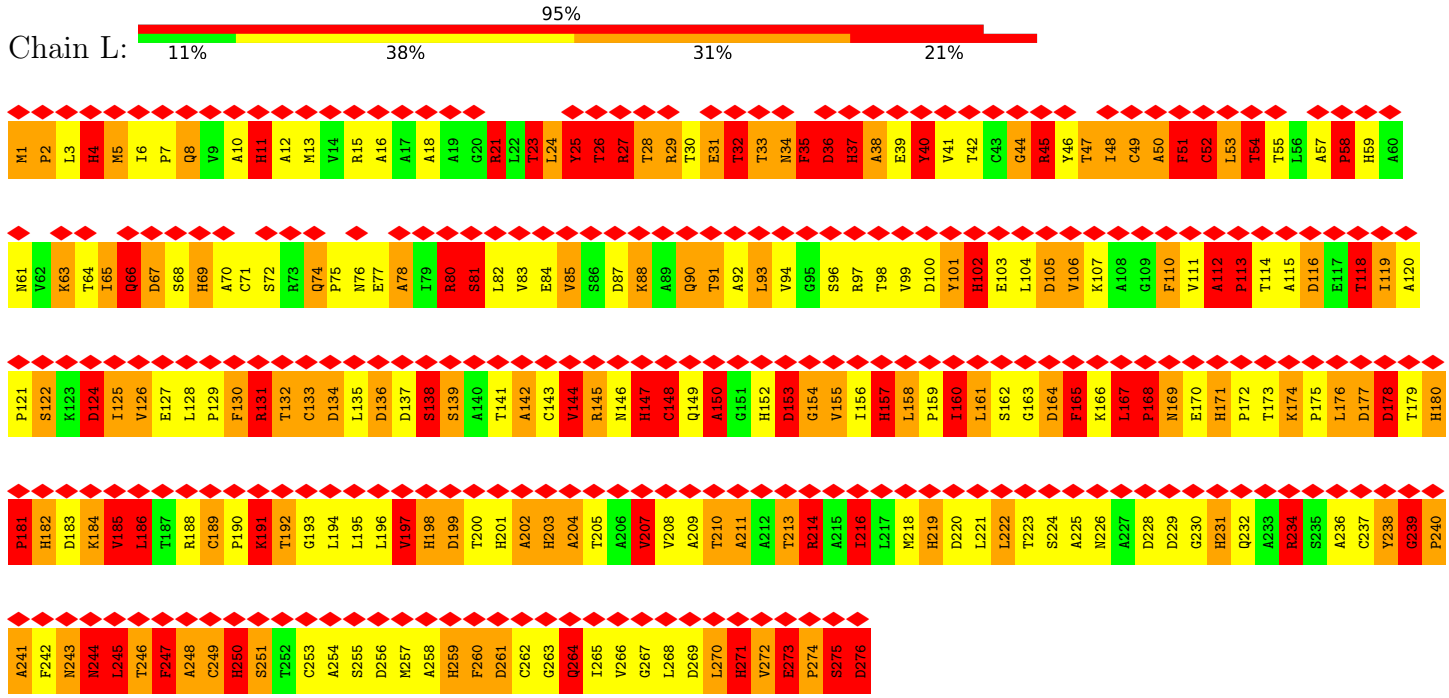
• Molecule 5: Outer capsid VP7

Chain H:



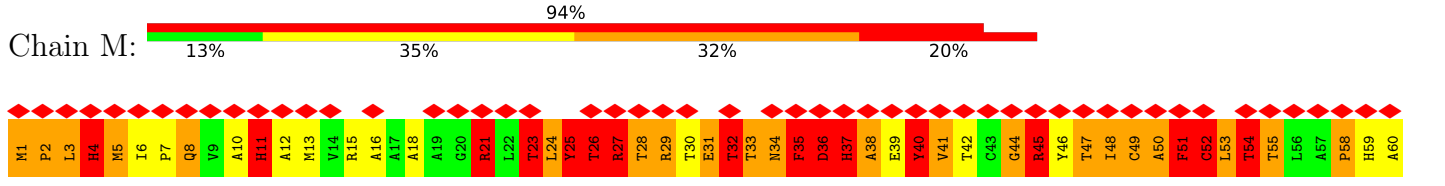
• Molecule 5: Outer capsid VP7

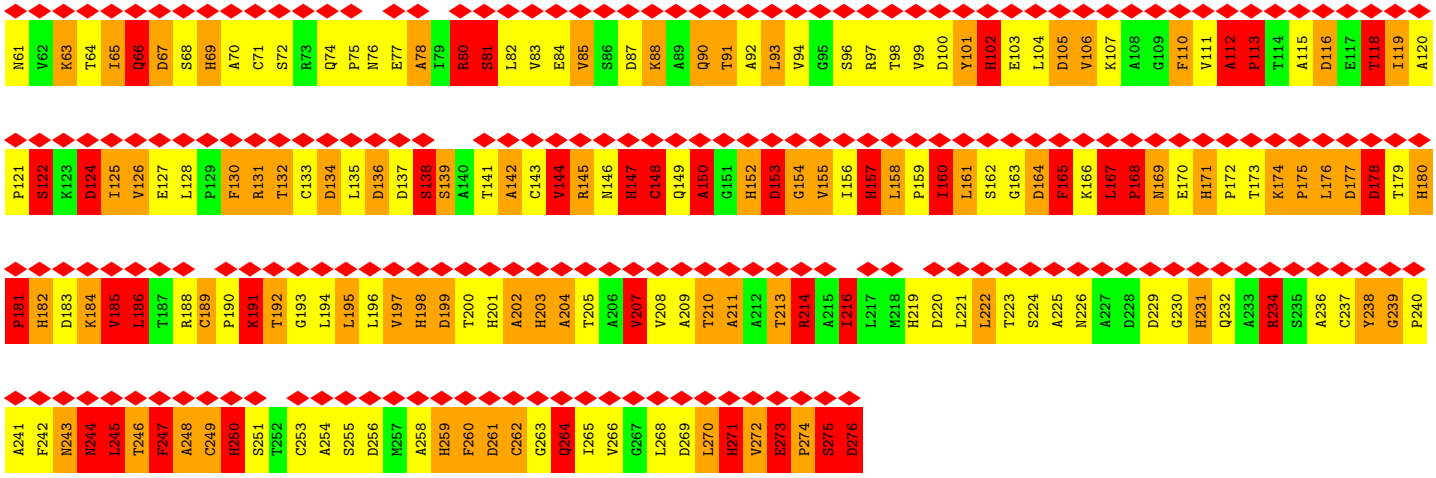
Chain L:



• Molecule 5: Outer capsid VP7

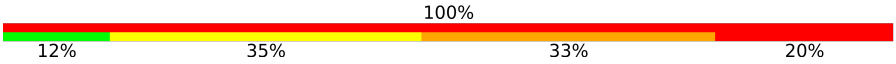
Chain M:

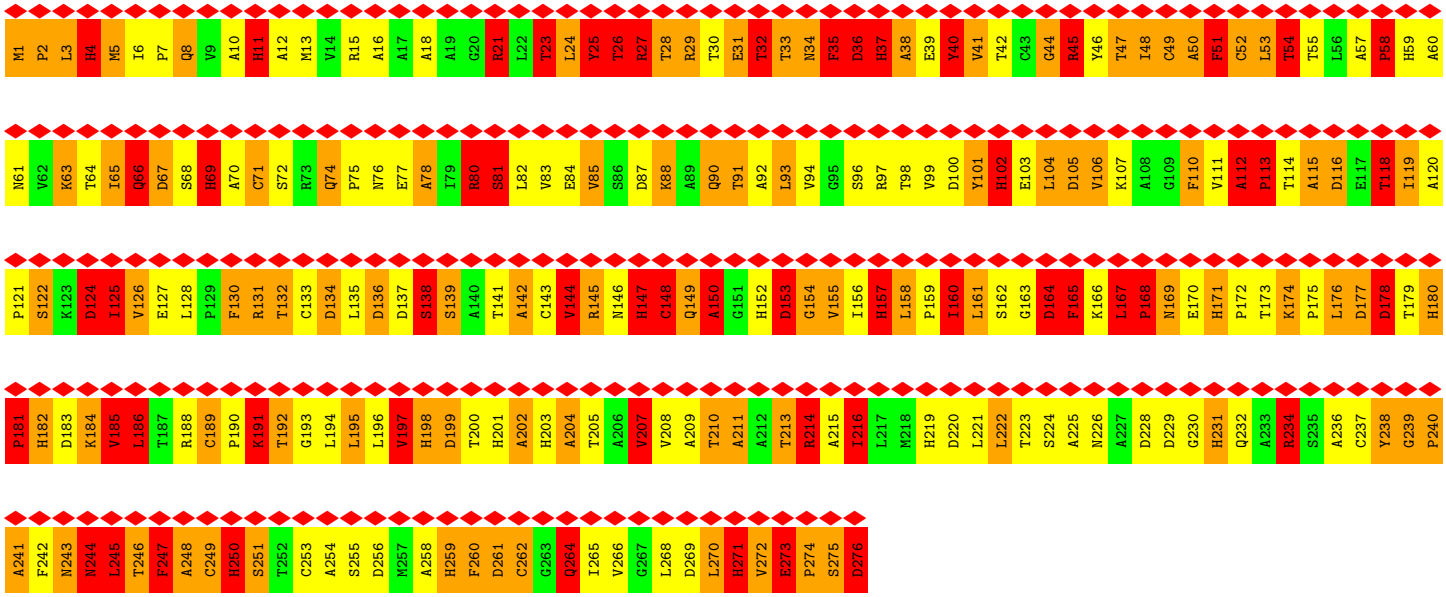




• Molecule 5: Outer capsid VP7

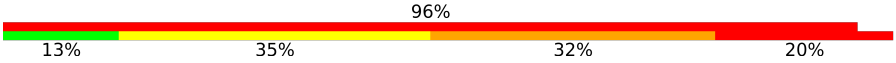
Chain N:

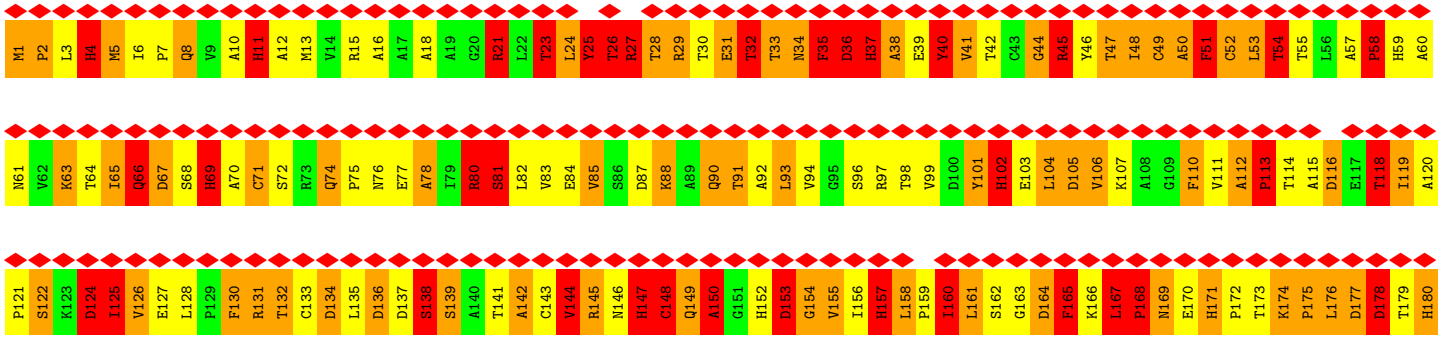


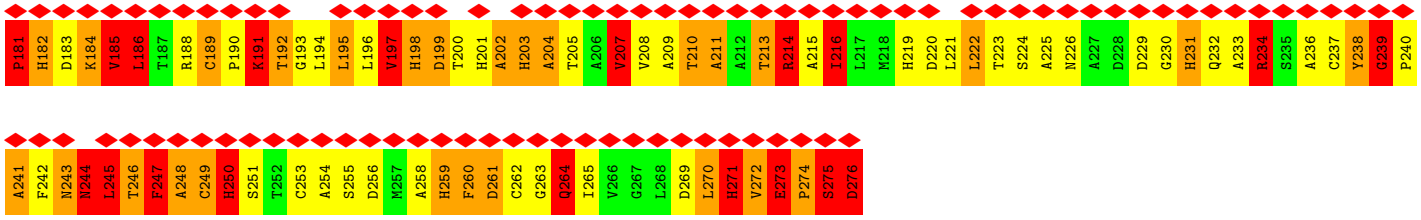


• Molecule 5: Outer capsid VP7

Chain R:

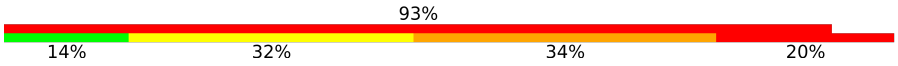


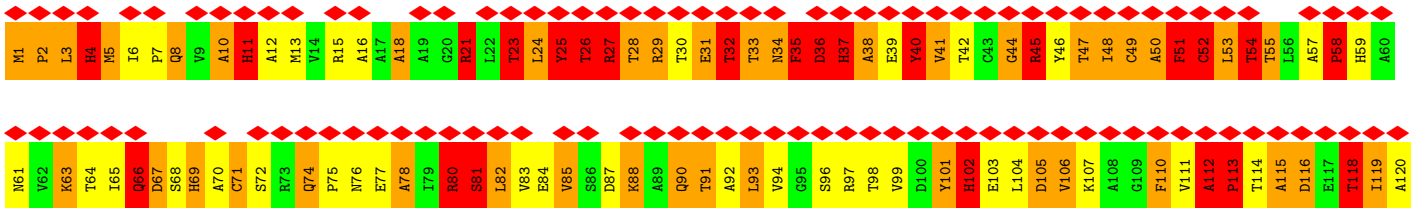




• Molecule 5: Outer capsid VP7

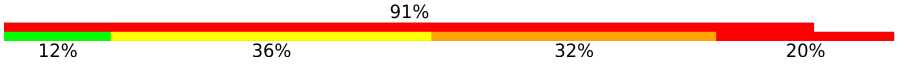
Chain S:

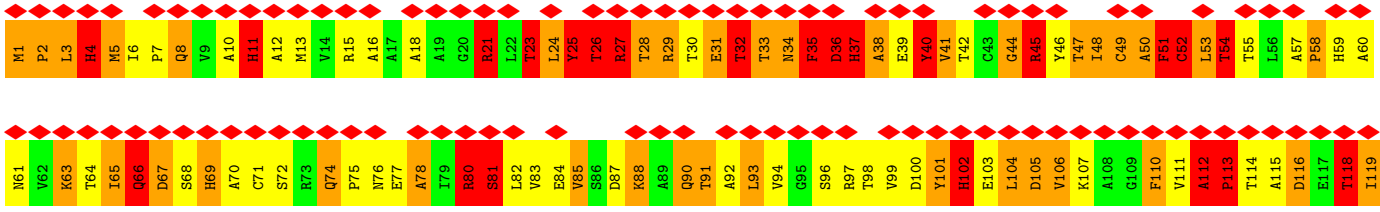




• Molecule 5: Outer capsid VP7

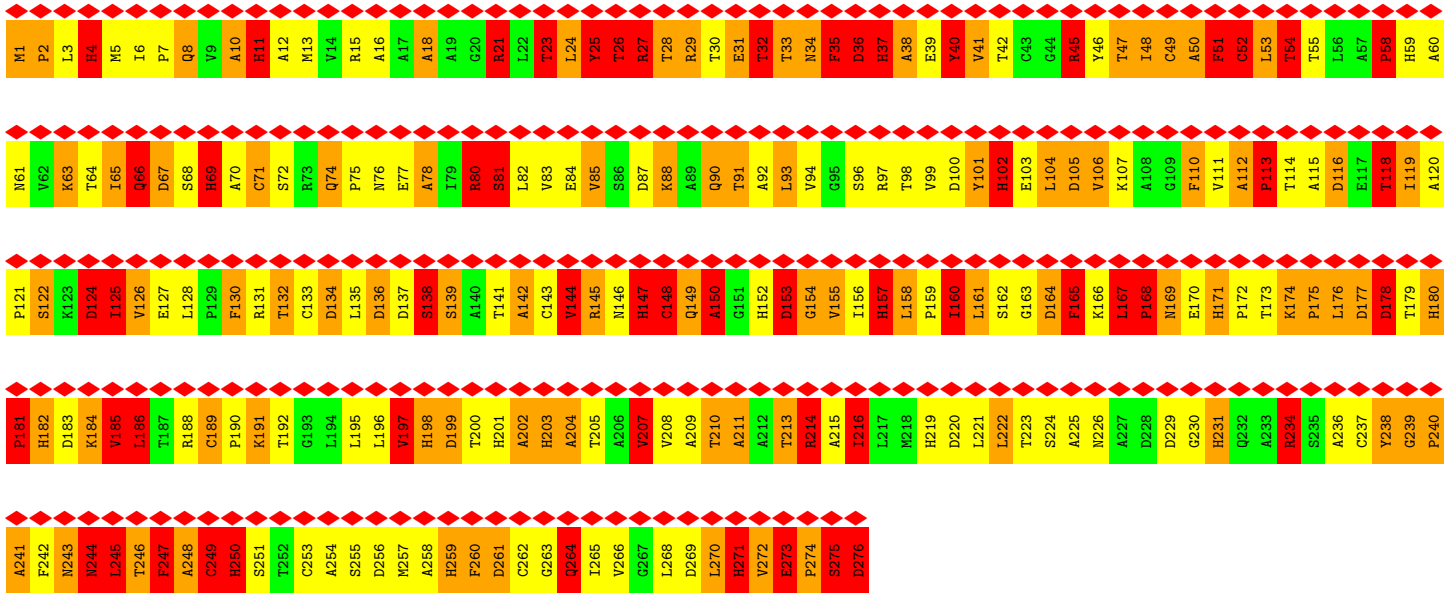
Chain T:





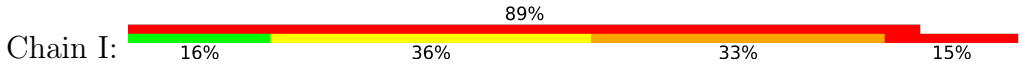
• Molecule 5: Outer capsid VP7

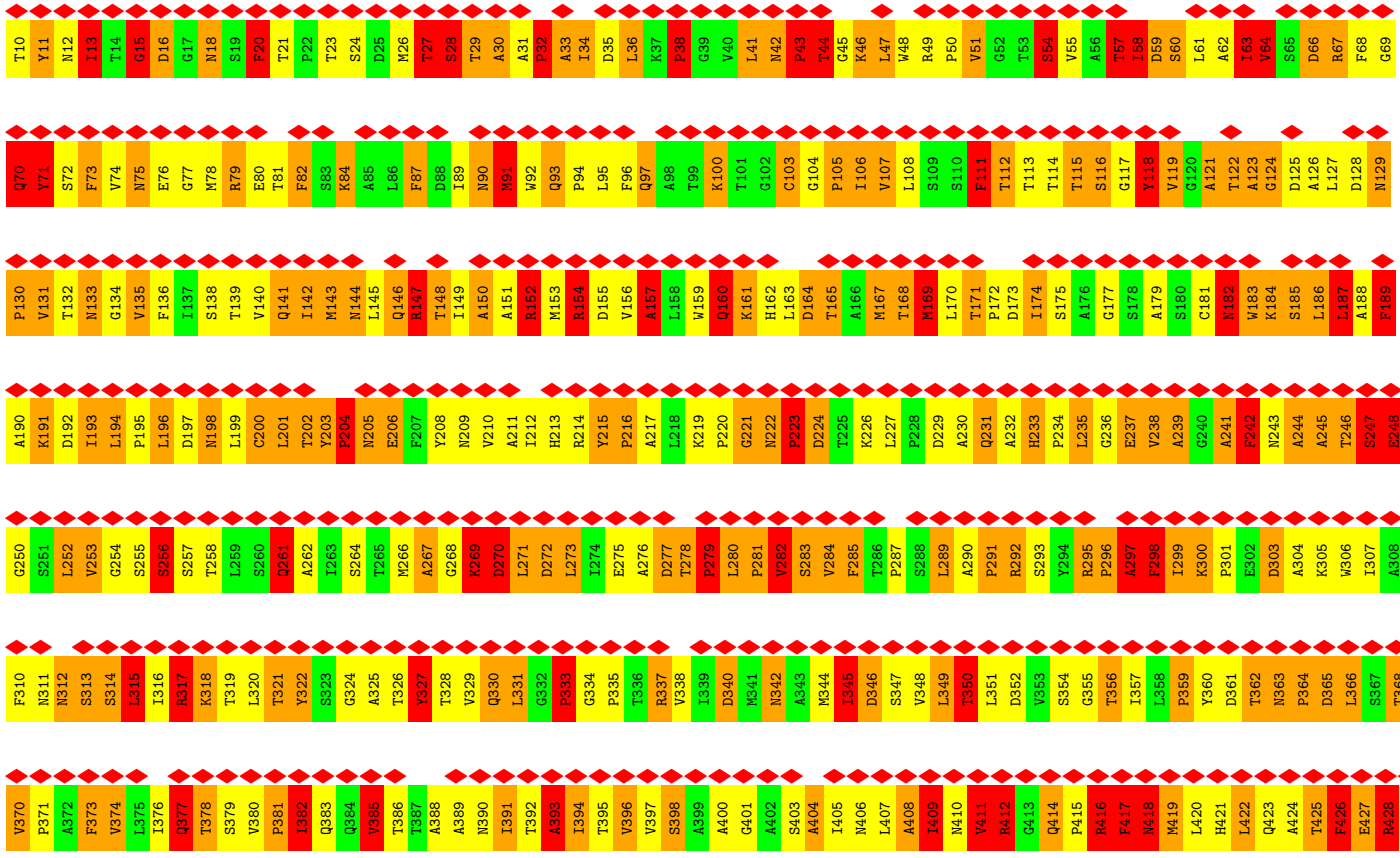
Chain Y:

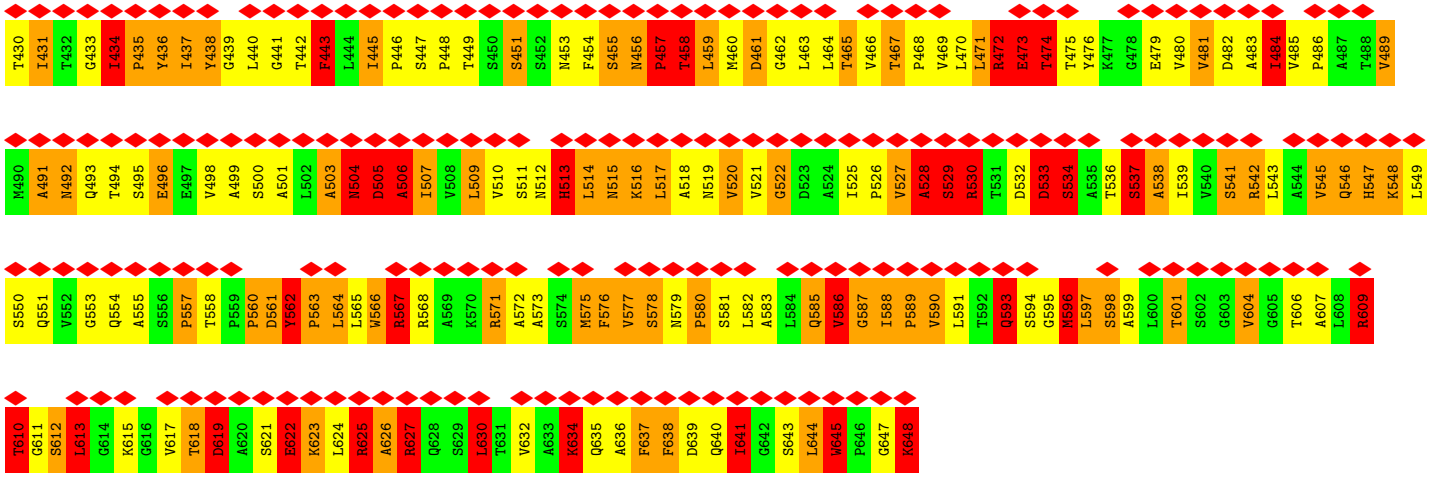


• Molecule 6: Outer capsid VP5

Chain I:

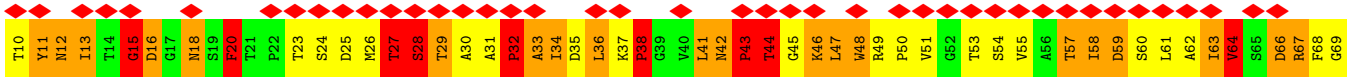


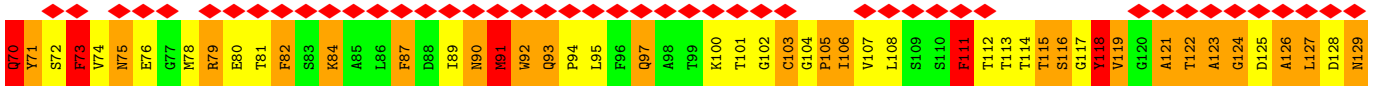


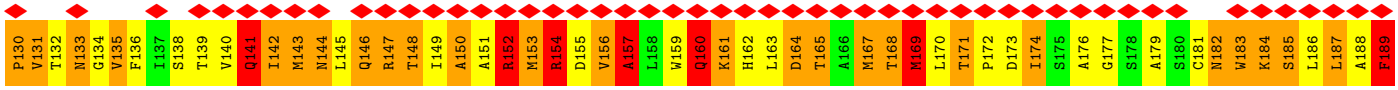


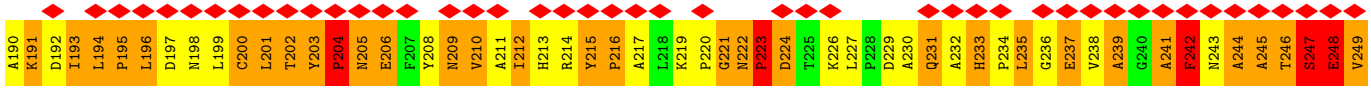
• Molecule 6: Outer capsid VP5

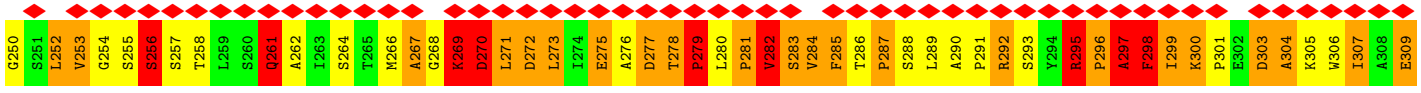
Chain J:

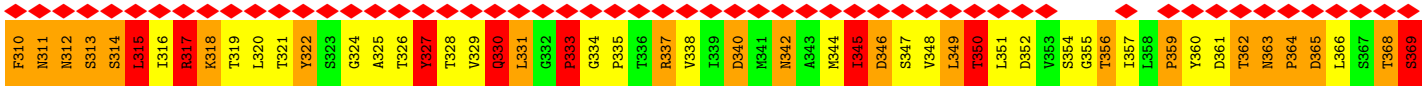


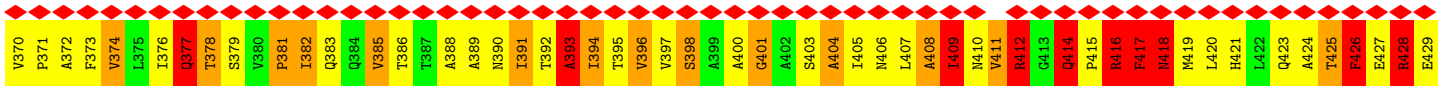


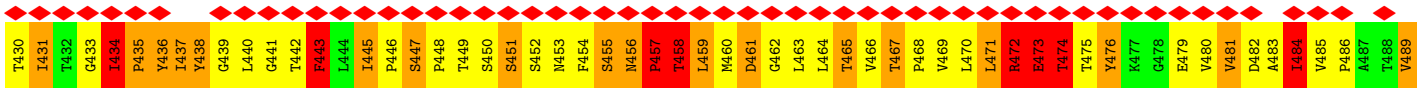


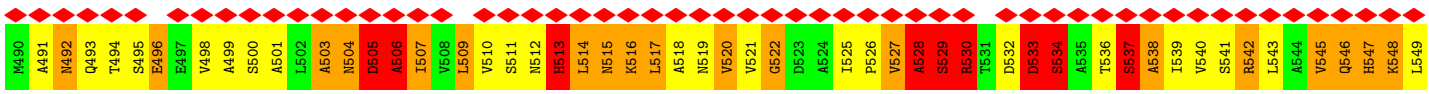


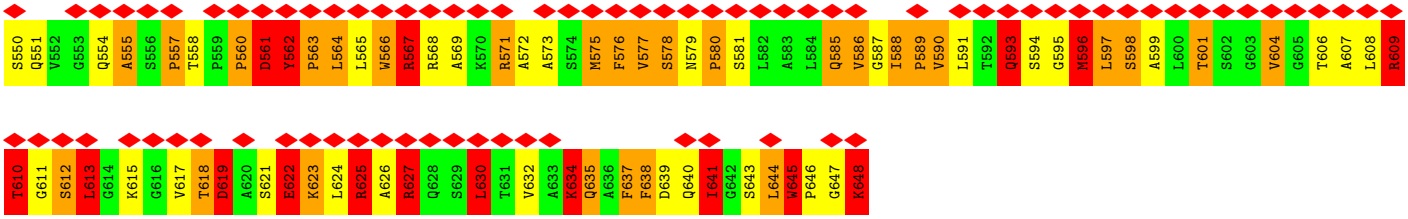






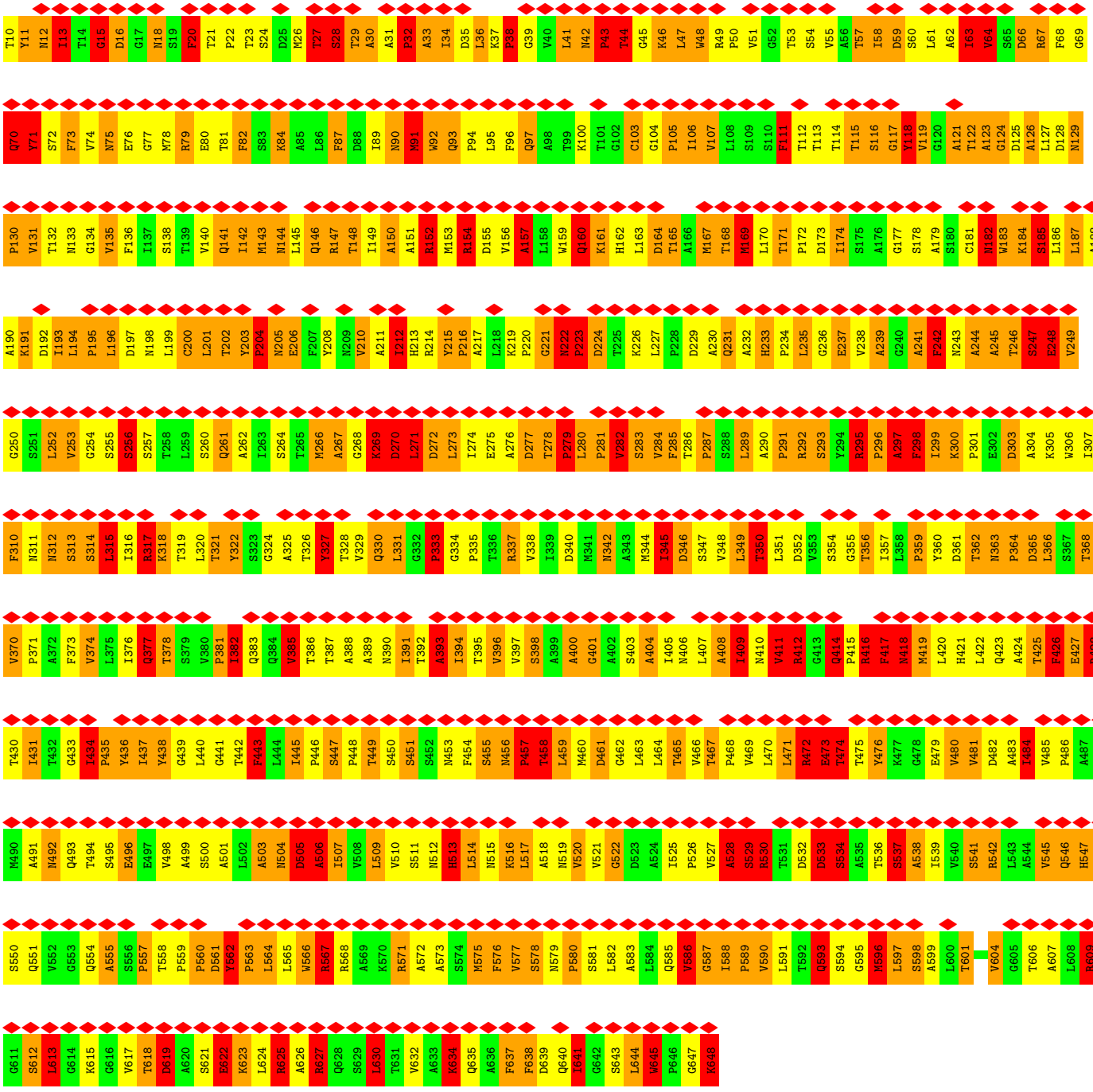






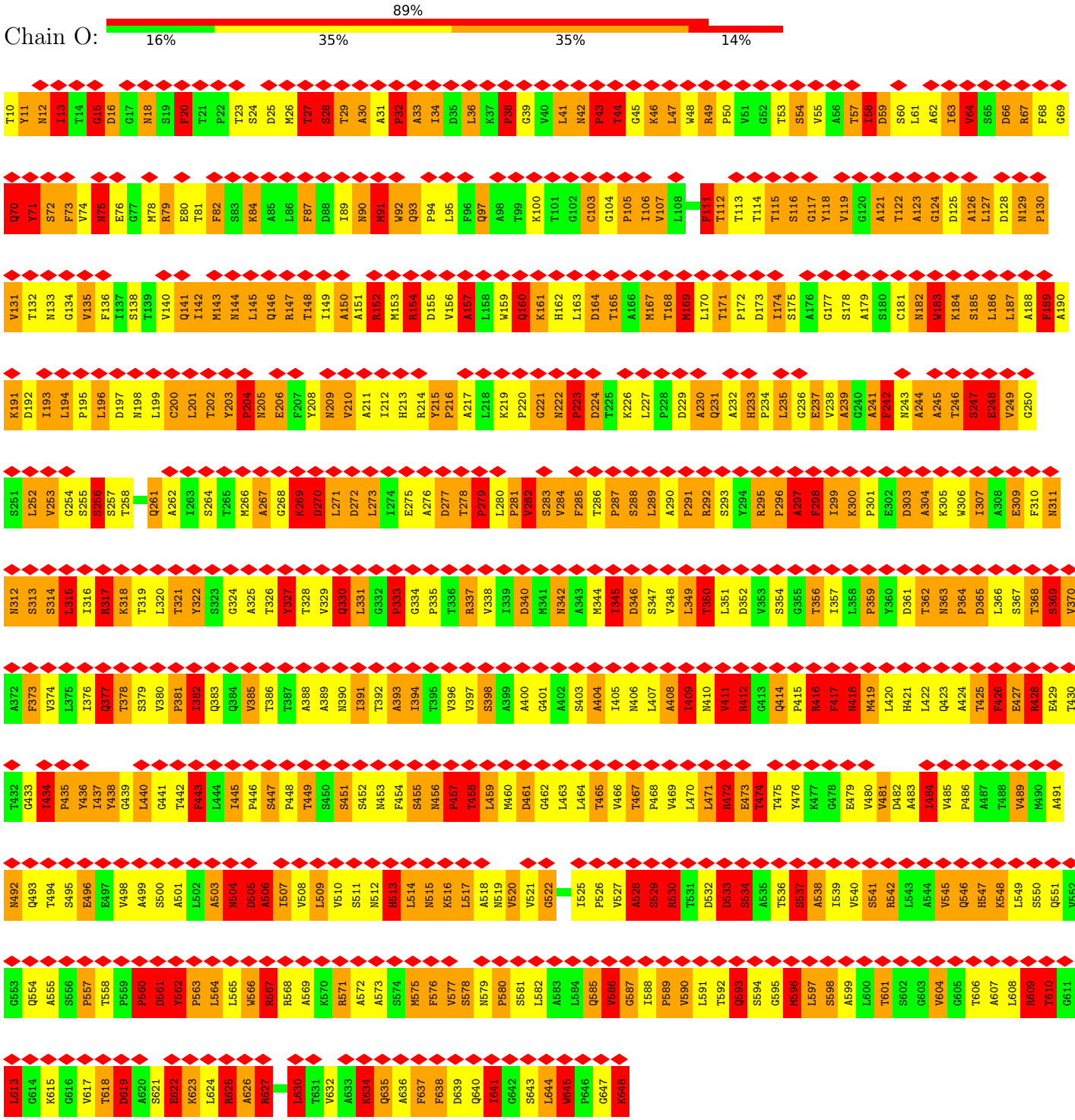
• Molecule 6: Outer capsid VP5

Chain K:



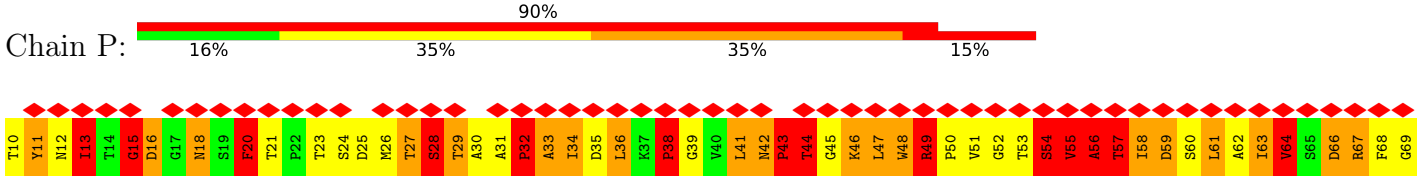
• Molecule 6: Outer capsid VP5

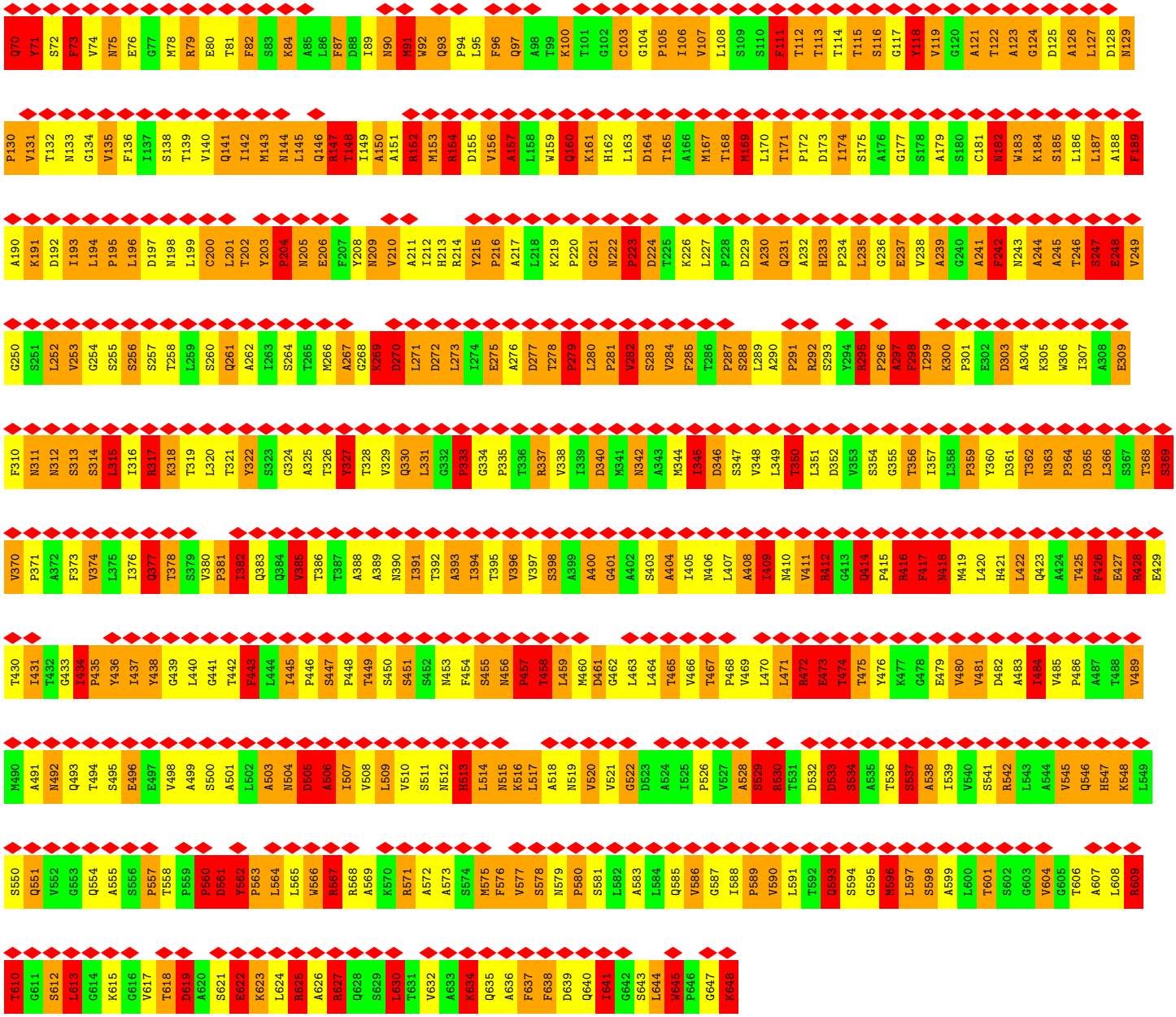
Chain O:



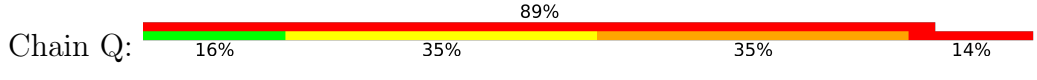
• Molecule 6: Outer capsid VP5

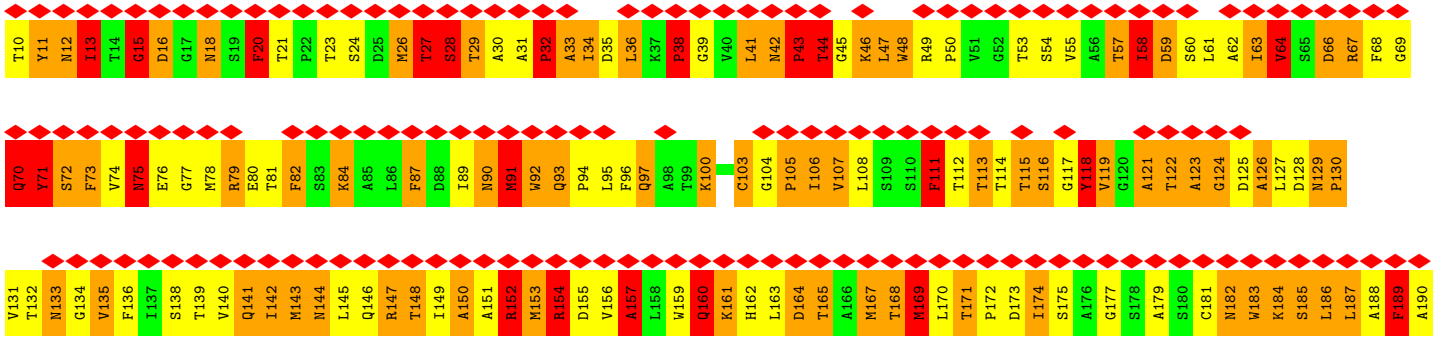
Chain P:

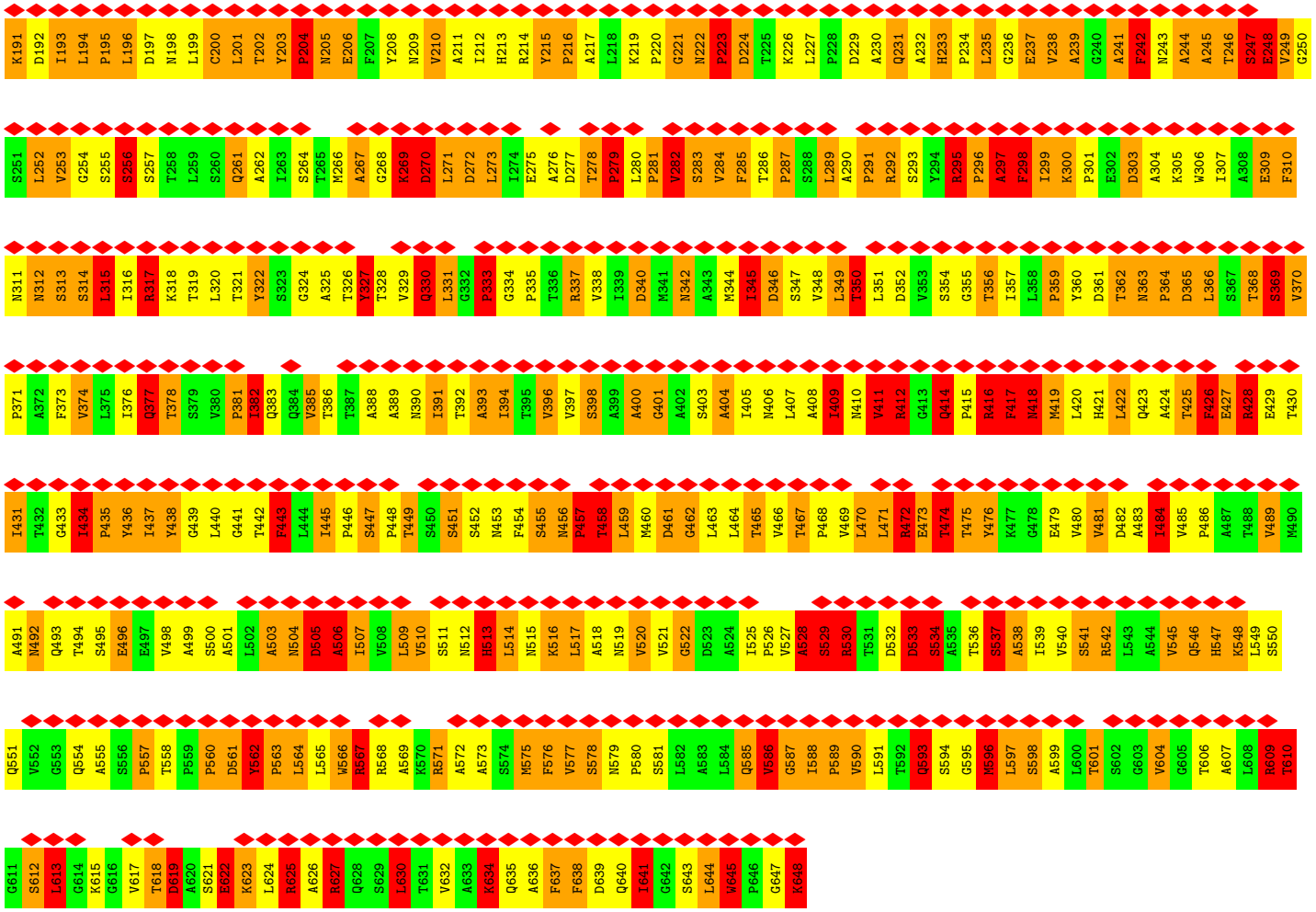




• Molecule 6: Outer capsid VP5

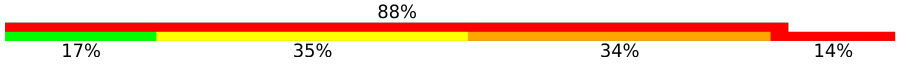


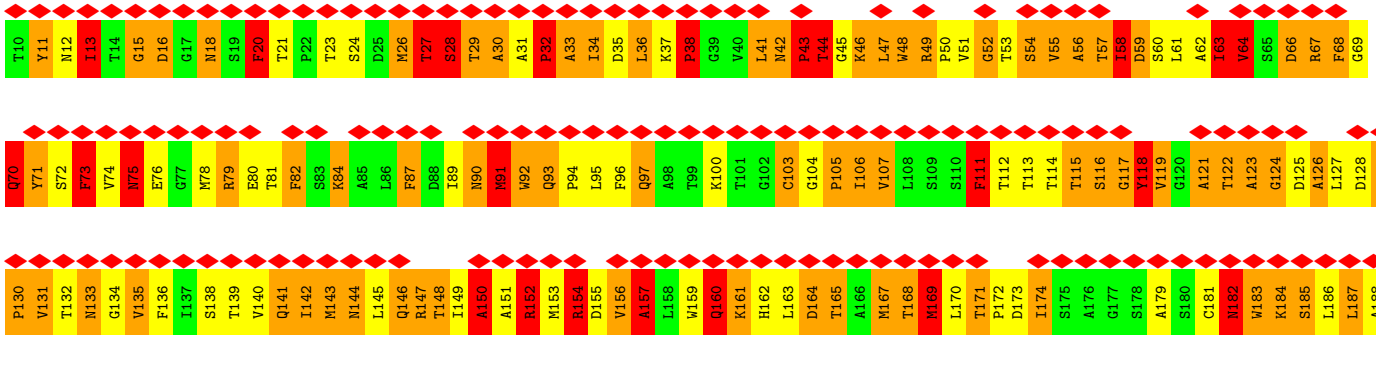


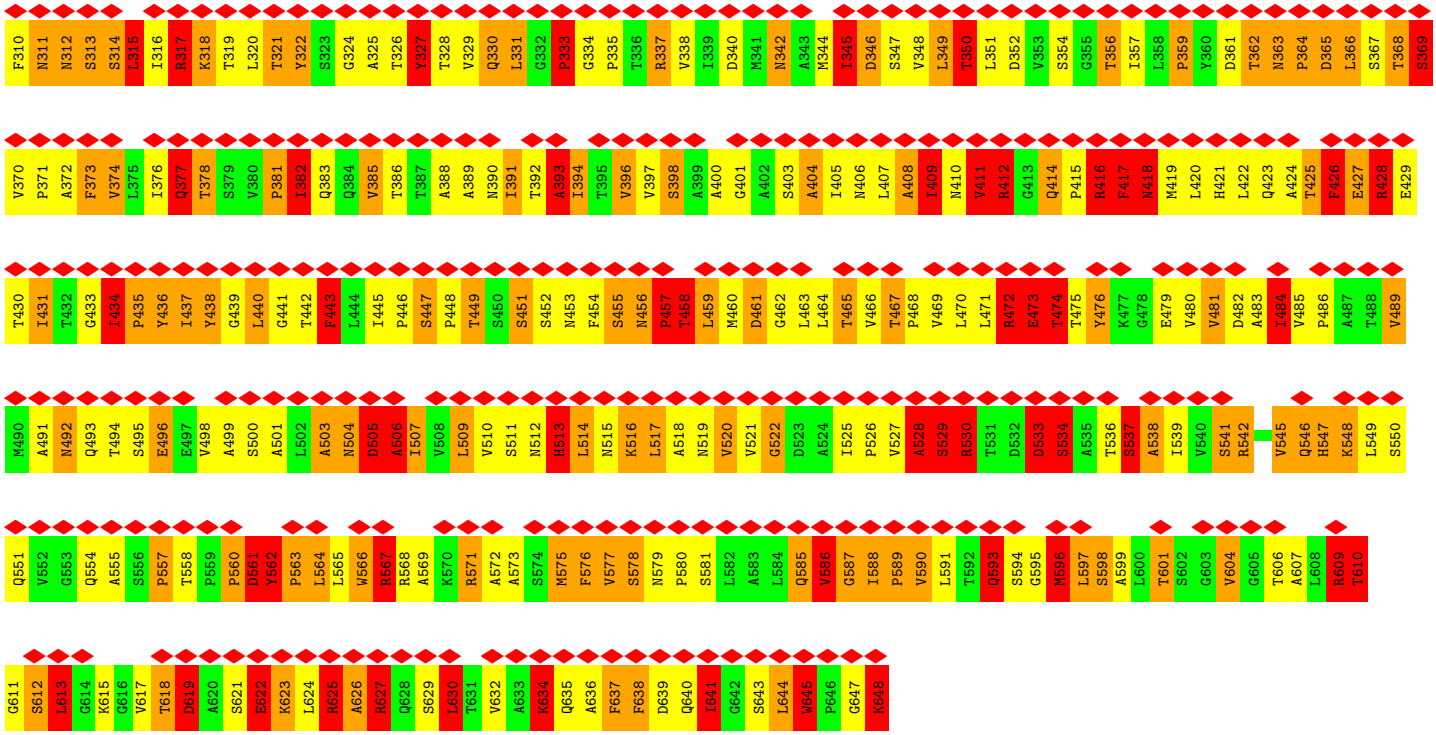


• Molecule 6: Outer capsid VP5

Chain U:

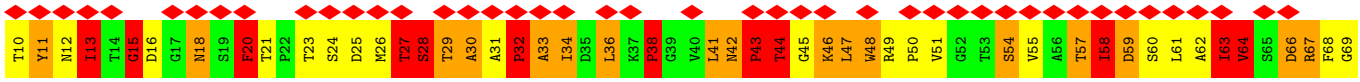


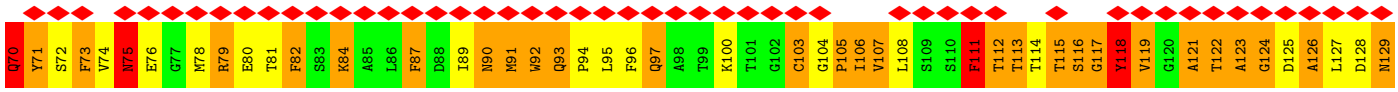


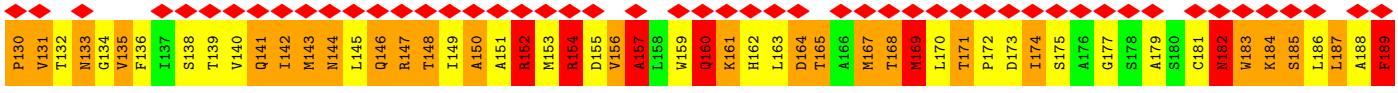


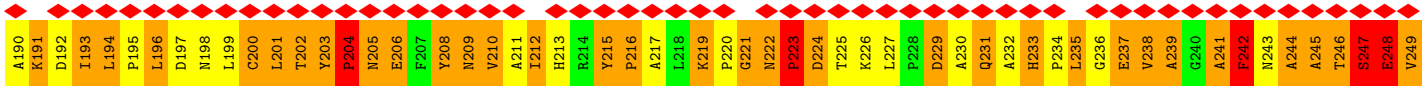
- Molecule 6: Outer capsid VP5

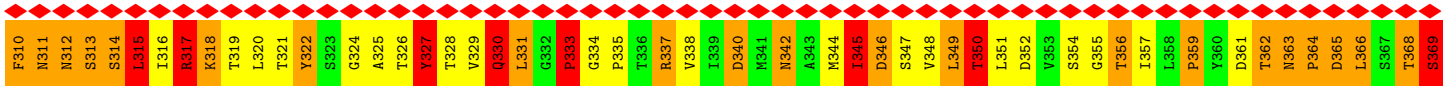
Chain V:

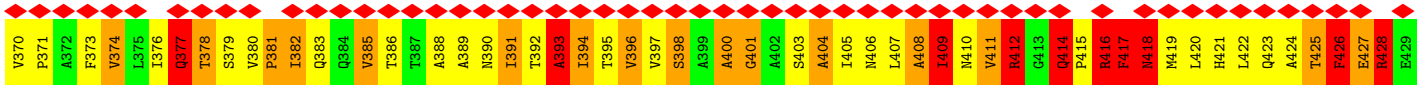


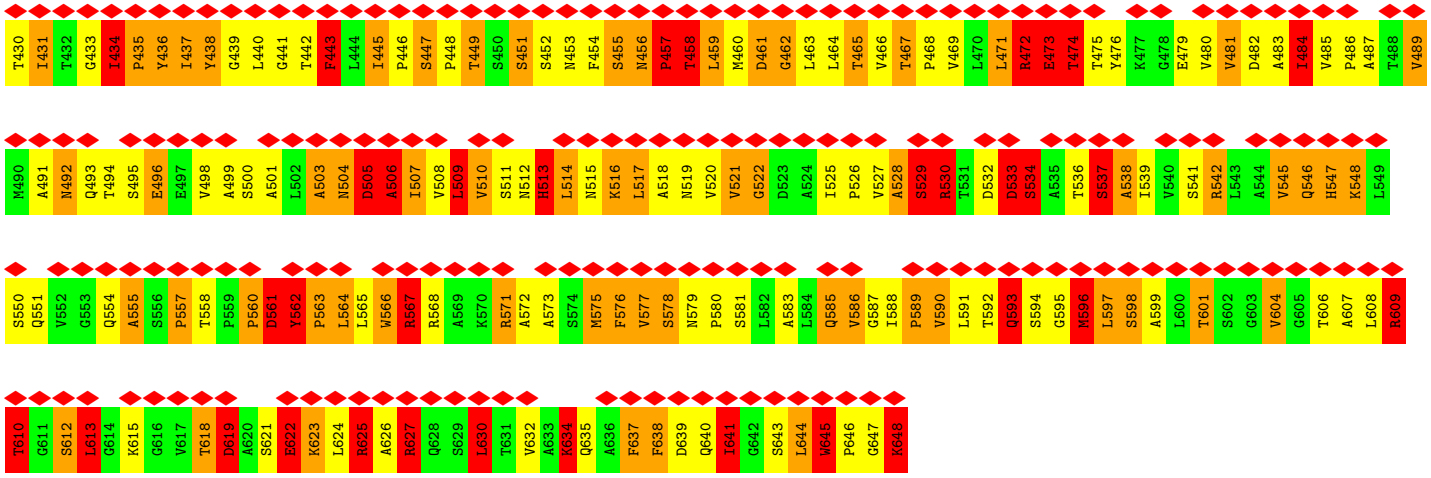






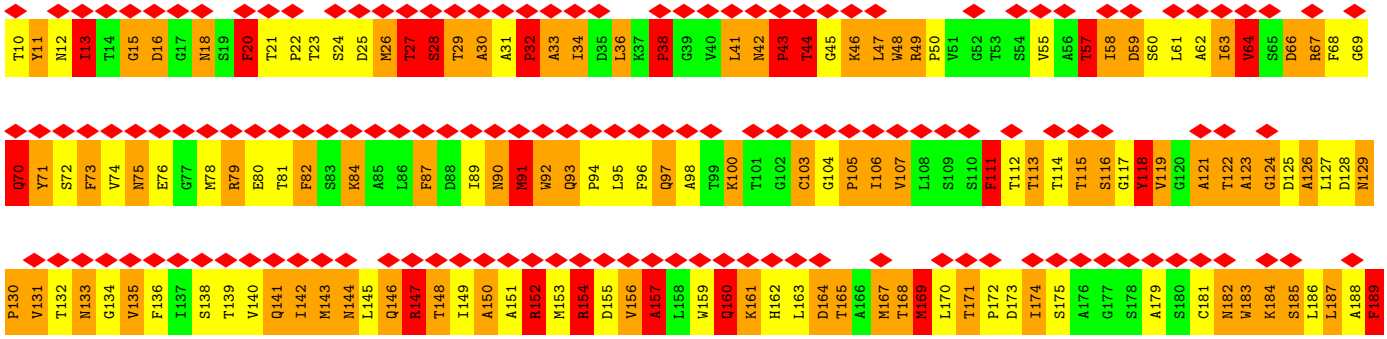


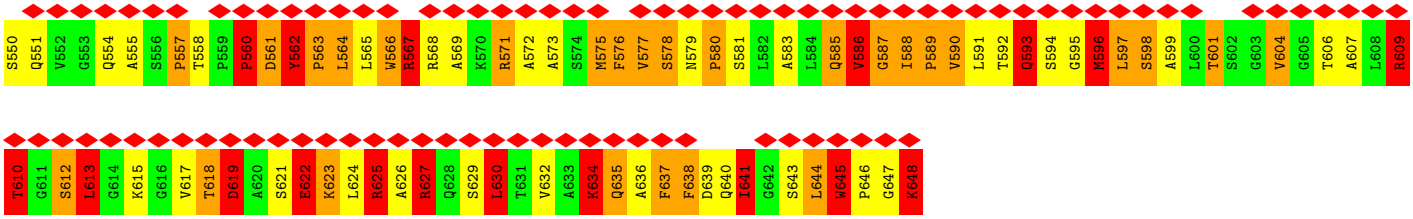




• Molecule 6: Outer capsid VP5

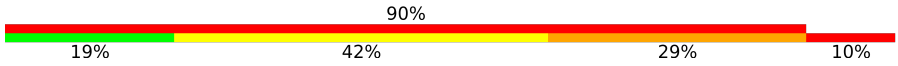
Chain W:

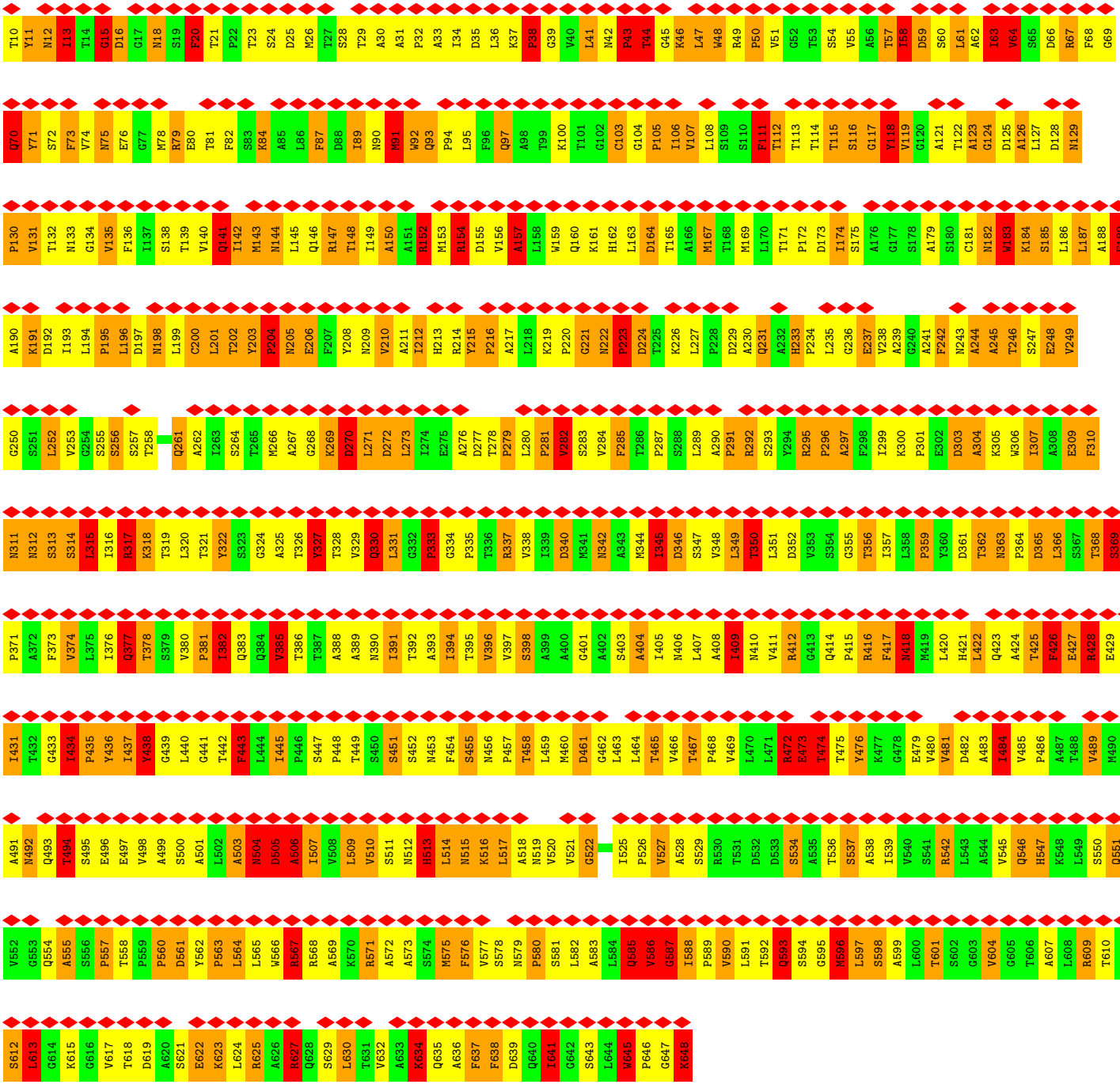




• Molecule 6: Outer capsid VP5

Chain X:





4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	15000	Depositor
Resolution determination method	Not provided	
CTF correction method	Fully corrected. See Zhou et al., 1999, J. Virol. 73, 3210-3218	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	20	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2300	Depositor
Magnification	154380	Depositor
Image detector	GENERIC CCD	Depositor
Maximum map value	6.460	Depositor
Minimum map value	-8.591	Depositor
Average map value	0.026	Depositor
Map value standard deviation	0.721	Depositor
Recommended contour level	1.4	Depositor
Map size (Å)	901.645, 901.645, 450.822	wwPDB
Map dimensions	929, 929, 465	wwPDB
Map angles (°)	90, 90, 90	wwPDB
Pixel spacing (Å)	0.9716, 0.9716, 0.9716	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	0.64	0/10259	2.85	1135/14091 (8.1%)
2	B	0.64	0/8142	2.98	956/11160 (8.6%)
3	C	0.64	0/9383	2.96	1049/12866 (8.2%)
4	D	0.64	0/3240	3.09	402/4453 (9.0%)
4	E	0.64	0/3240	2.96	412/4453 (9.3%)
5	F	0.67	0/2132	3.01	277/2912 (9.5%)
5	G	0.67	0/2132	3.02	267/2912 (9.2%)
5	H	0.66	0/2132	3.01	265/2912 (9.1%)
5	L	0.66	0/2132	3.02	271/2912 (9.3%)
5	M	0.67	0/2132	3.01	254/2912 (8.7%)
5	N	0.68	0/2132	3.00	260/2912 (8.9%)
5	R	0.67	0/2132	3.02	257/2912 (8.8%)
5	S	0.68	0/2132	3.02	266/2912 (9.1%)
5	T	0.68	0/2132	3.02	262/2912 (9.0%)
5	Y	0.67	0/2132	3.05	264/2912 (9.1%)
6	I	0.62	0/4856	3.31	650/6646 (9.8%)
6	J	0.62	0/4856	3.25	648/6646 (9.8%)
6	K	0.61	0/4856	3.26	645/6646 (9.7%)
6	O	0.62	0/4856	3.28	648/6646 (9.8%)
6	P	0.90	4/4856 (0.1%)	3.36	666/6646 (10.0%)
6	Q	0.62	0/4856	3.29	650/6646 (9.8%)
6	U	0.61	0/4856	3.25	642/6646 (9.7%)
6	V	0.61	0/4856	3.25	642/6646 (9.7%)
6	W	0.61	0/4856	3.28	655/6646 (9.9%)
6	X	0.62	0/4856	2.92	548/6646 (8.2%)
All	All	0.65	4/104144 (0.0%)	3.10	12991/142603 (9.1%)

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.

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Mol	Chain	#Chirality outliers	#Planarity outliers

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	285
2	B	0	206
3	C	1	274
4	D	0	87
4	E	0	98
5	F	0	68
5	G	0	67
5	H	0	68
5	L	0	66
5	M	0	69
5	N	0	67
5	R	0	68
5	S	0	67
5	T	0	67
5	Y	0	68
6	I	0	155
6	J	0	142
6	K	0	149
6	O	0	145
6	P	0	147
6	Q	0	146
6	U	0	145
6	V	0	141
6	W	0	146
6	X	0	135
All	All	1	3076

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	P	56	ALA	CA-CB	30.52	2.05	1.53
6	P	56	ALA	N-CA	-22.64	1.17	1.46
6	P	56	ALA	CA-C	-22.07	1.23	1.52
6	P	55	VAL	C-N	8.24	1.45	1.33

All (12991) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	I	193	ILE	O-C-N	-42.94	83.76	121.98
6	O	193	ILE	O-C-N	-42.08	84.53	121.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	798	VAL	O-C-N	-41.63	70.53	122.57
6	P	147	ARG	NE-CZ-NH2	-40.58	82.68	119.20
6	W	248	GLU	OE1-CD-OE2	-40.14	26.56	122.90
6	Q	248	GLU	OE1-CD-OE2	-39.88	27.19	122.90
6	K	248	GLU	OE1-CD-OE2	-38.71	29.99	122.90
6	O	248	GLU	OE1-CD-OE2	-37.87	32.01	122.90
6	U	248	GLU	OE1-CD-OE2	-37.80	32.18	122.90
6	I	248	GLU	OE1-CD-OE2	-37.76	32.27	122.90
6	Q	193	ILE	O-C-N	-35.01	85.66	122.07
6	K	193	ILE	O-C-N	-34.53	86.16	122.07
6	V	248	GLU	OE1-CD-OE2	-34.51	40.07	122.90
6	P	248	GLU	OE1-CD-OE2	-34.35	40.45	122.90
6	J	248	GLU	OE1-CD-OE2	-34.29	40.60	122.90
6	W	193	ILE	O-C-N	-33.52	87.21	122.07
6	K	529	SER	O-C-N	-31.54	80.64	122.59
6	V	193	ILE	O-C-N	-31.51	89.30	122.07
6	W	529	SER	O-C-N	-31.08	81.26	122.59
6	Q	147	ARG	NE-CZ-NH2	31.05	147.14	119.20
2	B	377	ILE	CA-C-O	-30.90	88.95	121.70
6	P	193	ILE	O-C-N	-30.90	89.94	122.07
6	Q	529	SER	O-C-N	-30.82	81.59	122.59
6	J	193	ILE	O-C-N	-30.45	90.40	122.07
6	I	529	SER	O-C-N	-30.38	82.18	122.59
6	K	472	ARG	NE-CZ-NH1	-30.12	91.38	121.50
6	O	529	SER	O-C-N	-30.12	82.53	122.59
6	W	472	ARG	NE-CZ-NH1	-29.95	91.55	121.50
6	U	529	SER	O-C-N	-29.94	82.77	122.59
6	Q	472	ARG	NE-CZ-NH1	-29.49	92.01	121.50
6	P	529	SER	O-C-N	-29.04	83.97	122.59
6	J	529	SER	O-C-N	-28.69	84.44	122.59
6	V	529	SER	O-C-N	-28.68	84.45	122.59
6	P	609	ARG	NE-CZ-NH1	-27.97	93.53	121.50
6	U	193	ILE	O-C-N	-27.84	83.29	121.99
6	J	609	ARG	NE-CZ-NH1	-27.56	93.94	121.50
3	C	1196	ARG	NE-CZ-NH2	-27.51	94.44	119.20
6	V	609	ARG	NE-CZ-NH1	-27.14	94.36	121.50
4	D	31	GLY	O-C-N	-27.00	94.38	122.19
3	C	1196	ARG	NE-CZ-NH1	26.93	148.44	121.50
6	X	494	THR	OG1-CB-CG2	-26.53	56.23	109.30
6	I	472	ARG	NE-CZ-NH1	-26.14	95.36	121.50
6	I	609	ARG	NE-CZ-NH1	-26.14	95.36	121.50
6	O	609	ARG	NE-CZ-NH1	-26.11	95.39	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	O	472	ARG	NE-CZ-NH1	-26.08	95.42	121.50
6	K	609	ARG	NE-CZ-NH1	-25.96	95.54	121.50
6	X	587	GLY	O-C-N	-25.95	88.97	122.70
6	U	472	ARG	NE-CZ-NH1	-25.94	95.56	121.50
6	U	609	ARG	NE-CZ-NH1	-25.94	95.56	121.50
3	C	798	VAL	N-CA-CB	-25.94	68.43	111.23
6	W	609	ARG	NE-CZ-NH1	-25.87	95.63	121.50
6	Q	609	ARG	NE-CZ-NH1	-25.55	95.95	121.50
6	P	412	ARG	NE-CZ-NH1	25.12	146.62	121.50
6	I	147	ARG	NE-CZ-NH2	25.06	141.75	119.20
6	V	412	ARG	NE-CZ-NH1	25.03	146.53	121.50
6	Q	193	ILE	CA-C-O	25.01	143.81	120.30
6	K	193	ILE	CA-C-O	24.85	143.66	120.30
6	X	586	VAL	CB-CA-C	-24.83	83.64	111.45
6	O	193	ILE	CA-C-O	24.78	144.51	120.73
6	I	416	ARG	CA-C-O	-24.74	94.43	120.40
6	I	193	ILE	CA-C-O	24.64	144.39	120.73
6	U	416	ARG	CA-C-O	-24.60	94.57	120.40
6	O	416	ARG	CA-C-O	-24.59	94.59	120.40
6	I	456	ASN	OD1-CG-ND2	24.35	146.95	122.60
6	J	412	ARG	NE-CZ-NH1	24.34	145.84	121.50
6	V	193	ILE	CA-C-O	24.27	143.11	120.30
5	Y	4	HIS	CA-CB-CG	24.24	138.04	113.80
6	P	472	ARG	NE-CZ-NH1	-24.23	97.27	121.50
6	U	456	ASN	OD1-CG-ND2	24.13	146.73	122.60
6	V	472	ARG	NE-CZ-NH1	-24.07	97.43	121.50
6	J	472	ARG	NE-CZ-NH1	-23.98	97.52	121.50
6	P	193	ILE	CA-C-O	23.95	142.82	120.30
6	Q	414	GLN	CG-CD-NE2	-23.94	80.49	116.40
2	B	861	ARG	NH1-CZ-NH2	-23.86	88.28	119.30
6	J	193	ILE	CA-C-O	23.83	142.70	120.30
6	O	456	ASN	OD1-CG-ND2	23.83	146.43	122.60
2	B	407	ARG	NE-CZ-NH1	-23.76	97.74	121.50
2	B	861	ARG	NE-CZ-NH1	23.73	145.23	121.50
6	U	193	ILE	CA-C-O	23.71	145.59	120.69
6	K	414	GLN	CG-CD-NE2	-23.59	81.02	116.40
6	W	414	GLN	CG-CD-NE2	-23.53	81.10	116.40
2	B	450	ASP	CA-CB-CG	-23.48	89.12	112.60
3	C	797	ALA	CA-C-O	-23.40	87.05	120.51
6	W	193	ILE	CA-C-O	23.32	142.22	120.30
4	D	31	GLY	N-CA-C	22.54	143.25	113.27
6	P	416	ARG	CA-C-O	-21.78	97.53	120.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	O	412	ARG	NE-CZ-NH1	21.70	143.20	121.50
6	P	147	ARG	CD-NE-CZ	21.64	154.70	124.40
6	J	414	GLN	CG-CD-NE2	-21.63	83.95	116.40
6	V	414	GLN	CG-CD-NE2	-21.59	84.02	116.40
6	P	414	GLN	CG-CD-NE2	-21.54	84.09	116.40
2	B	952	PRO	CB-CA-C	-21.53	91.81	111.40
6	U	412	ARG	NE-CZ-NH1	21.40	142.90	121.50
6	J	416	ARG	CA-C-O	-21.22	98.11	120.40
6	Q	416	ARG	CA-C-O	-21.18	98.16	120.40
6	I	412	ARG	NE-CZ-NH1	21.08	142.58	121.50
6	U	414	GLN	CG-CD-NE2	-20.96	84.96	116.40
6	K	160	GLN	OE1-CD-NE2	-20.88	101.72	122.60
6	O	414	GLN	CG-CD-NE2	-20.80	85.20	116.40
6	K	416	ARG	CA-C-O	-20.79	98.57	120.40
6	J	456	ASN	CB-CG-OD1	-20.78	79.24	120.80
6	W	416	ARG	CA-C-O	-20.76	98.60	120.40
6	V	160	GLN	OE1-CD-NE2	-20.76	101.84	122.60
6	P	456	ASN	CB-CG-OD1	-20.72	79.35	120.80
6	V	456	ASN	CB-CG-OD1	-20.49	79.82	120.80
2	B	378	GLY	O-C-N	-20.41	96.16	122.70
6	I	414	GLN	CG-CD-NE2	-20.38	85.83	116.40
6	W	147	ARG	NE-CZ-NH2	20.32	137.48	119.20
6	Q	160	GLN	OE1-CD-NE2	-20.30	102.30	122.60
6	W	160	GLN	OE1-CD-NE2	-20.21	102.39	122.60
6	U	160	GLN	OE1-CD-NE2	-20.11	102.50	122.60
6	O	456	ASN	CB-CG-OD1	-20.01	80.78	120.80
6	I	456	ASN	CB-CG-OD1	-19.96	80.89	120.80
6	U	456	ASN	CB-CG-OD1	-19.95	80.90	120.80
6	P	160	GLN	OE1-CD-NE2	-19.82	102.78	122.60
4	D	176	ALA	N-CA-C	19.80	136.53	112.38
6	P	55	VAL	CA-C-O	-19.73	96.11	120.78
1	A	286	ASP	CA-CB-CG	19.58	132.18	112.60
6	J	160	GLN	OE1-CD-NE2	-19.58	103.02	122.60
6	O	160	GLN	OE1-CD-NE2	-19.46	103.14	122.60
6	I	160	GLN	OE1-CD-NE2	-19.33	103.27	122.60
6	W	412	ARG	NE-CZ-NH1	19.17	140.67	121.50
6	W	248	GLU	CB-CG-CD	19.12	145.11	112.60
6	W	456	ASN	CB-CG-OD1	-19.12	82.56	120.80
6	V	458	THR	CA-C-O	-19.12	93.17	120.51
6	V	416	ARG	CA-C-O	-19.08	100.37	120.40
6	Q	248	GLU	CB-CG-CD	19.02	144.94	112.60
6	K	456	ASN	CB-CG-OD1	-19.01	82.77	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	Q	456	ASN	CB-CG-OD1	-18.99	82.81	120.80
3	C	798	VAL	CB-CA-C	18.89	142.27	111.29
6	W	412	ARG	CG-CD-NE	-18.76	70.72	112.00
6	X	586	VAL	CA-C-O	-18.76	101.31	122.13
6	Q	412	ARG	CG-CD-NE	-18.62	71.04	112.00
2	B	952	PRO	CA-C-O	-18.58	97.81	120.85
6	P	32	PRO	O-C-N	-18.57	97.58	122.64
6	Q	412	ARG	NE-CZ-NH1	18.54	140.04	121.50
6	O	44	THR	CA-CB-CG2	18.48	141.93	110.50
6	J	32	PRO	O-C-N	-18.48	97.69	122.64
6	K	412	ARG	CG-CD-NE	-18.46	71.38	112.00
6	J	458	THR	CA-C-O	-18.42	94.17	120.51
6	K	248	GLU	CB-CG-CD	18.39	143.86	112.60
6	O	418	ASN	CA-CB-CG	-18.38	94.22	112.60
6	K	412	ARG	NE-CZ-NH1	18.32	139.82	121.50
6	P	458	THR	CA-C-O	-18.32	94.32	120.51
6	O	412	ARG	CG-CD-NE	-18.30	71.74	112.00
6	U	44	THR	CA-CB-CG2	18.23	141.49	110.50
3	C	315	SER	CA-CB-OG	18.20	147.51	111.10
6	Q	528	ALA	CA-C-O	-18.20	94.48	120.51
6	I	44	THR	CA-CB-CG2	18.18	141.41	110.50
6	V	412	ARG	NE-CZ-NH2	-18.15	102.87	119.20
6	Q	32	PRO	O-C-N	-18.14	98.14	122.64
6	I	412	ARG	CG-CD-NE	-18.14	72.10	112.00
4	D	389	PHE	CA-C-O	-18.12	94.60	120.51
6	K	528	ALA	CA-C-O	-18.10	94.63	120.51
6	V	32	PRO	O-C-N	-18.09	98.22	122.64
6	U	418	ASN	CA-CB-CG	-18.06	94.54	112.60
6	U	412	ARG	CG-CD-NE	-18.05	72.28	112.00
6	O	32	PRO	O-C-N	-18.03	98.30	122.64
4	D	187	GLN	OE1-CD-NE2	17.98	140.58	122.60
6	W	32	PRO	O-C-N	-17.98	98.37	122.64
6	W	528	ALA	CA-C-O	-17.98	94.80	120.51
6	J	412	ARG	NE-CZ-NH2	-17.89	103.09	119.20
6	I	32	PRO	O-C-N	-17.81	98.60	122.64
6	I	418	ASN	CA-CB-CG	-17.79	94.81	112.60
6	P	528	ALA	CA-C-O	-17.78	95.09	120.51
6	O	528	ALA	CA-C-O	-17.73	95.16	120.51
6	K	456	ASN	OD1-CG-ND2	17.71	140.31	122.60
6	J	528	ALA	CA-C-O	-17.63	95.30	120.51
6	K	32	PRO	O-C-N	-17.60	98.88	122.64
6	I	528	ALA	CA-C-O	-17.58	95.38	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	528	PHE	CA-CB-CG	17.57	131.37	113.80
6	U	32	PRO	O-C-N	-17.54	98.96	122.64
6	U	528	ALA	CA-C-O	-17.51	95.47	120.51
6	P	412	ARG	CG-CD-NE	-17.49	73.51	112.00
6	W	418	ASN	CA-CB-CG	-17.48	95.12	112.60
6	V	528	ALA	CA-C-O	-17.45	95.55	120.51
6	Q	456	ASN	OD1-CG-ND2	17.44	140.04	122.60
6	K	418	ASN	CA-CB-CG	-17.43	95.17	112.60
6	Q	418	ASN	CA-CB-CG	-17.43	95.17	112.60
6	O	458	THR	CA-C-O	-17.39	95.64	120.51
6	J	412	ARG	CG-CD-NE	-17.39	73.75	112.00
6	V	412	ARG	CG-CD-NE	-17.37	73.78	112.00
6	K	472	ARG	NH1-CZ-NH2	17.36	141.86	119.30
6	P	412	ARG	NE-CZ-NH2	-17.29	103.64	119.20
6	V	472	ARG	NH1-CZ-NH2	17.21	141.67	119.30
6	U	458	THR	CA-C-O	-17.15	95.99	120.51
6	Q	472	ARG	NH1-CZ-NH2	17.15	141.59	119.30
6	W	456	ASN	OD1-CG-ND2	17.14	139.74	122.60
6	I	458	THR	CA-C-O	-17.11	96.04	120.51
6	P	472	ARG	NH1-CZ-NH2	17.06	141.48	119.30
3	C	123	ASN	CA-CB-CG	17.00	129.60	112.60
6	W	472	ARG	NH1-CZ-NH2	17.00	141.40	119.30
6	O	472	ARG	NH1-CZ-NH2	16.99	141.38	119.30
6	J	472	ARG	NH1-CZ-NH2	16.97	141.36	119.30
6	U	472	ARG	NH1-CZ-NH2	16.96	141.35	119.30
6	K	458	THR	CA-C-O	-16.92	96.32	120.51
4	D	30	ALA	CA-C-N	-16.80	98.96	120.13
4	D	30	ALA	C-N-CA	-16.80	98.96	120.13
3	C	552	ASP	CA-CB-CG	16.71	129.31	112.60
6	I	472	ARG	NH1-CZ-NH2	16.69	141.00	119.30
6	W	458	THR	CA-C-O	-16.69	96.65	120.51
6	Q	458	THR	CA-C-O	-16.61	96.76	120.51
4	D	251	ASN	CA-CB-CG	16.60	129.20	112.60
6	Q	609	ARG	NH1-CZ-NH2	16.59	140.87	119.30
2	B	450	ASP	N-CA-C	16.58	130.77	111.71
3	C	933	ASP	CA-CB-CG	16.56	129.16	112.60
6	P	147	ARG	NE-CZ-NH1	16.52	138.02	121.50
2	B	452	ARG	NH1-CZ-NH2	16.52	140.77	119.30
6	W	609	ARG	NH1-CZ-NH2	16.47	140.72	119.30
6	I	248	GLU	CB-CG-CD	16.46	140.58	112.60
6	P	456	ASN	OD1-CG-ND2	16.40	139.00	122.60
6	J	456	ASN	OD1-CG-ND2	16.36	138.97	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	418	ASN	CA-CB-CG	-16.36	96.24	112.60
6	K	609	ARG	NH1-CZ-NH2	16.36	140.56	119.30
6	W	459	LEU	N-CA-C	16.31	133.79	112.26
6	U	248	GLU	CB-CG-CD	16.29	140.29	112.60
6	K	417	PHE	N-CA-C	16.25	134.17	109.96
6	W	417	PHE	N-CA-C	16.23	134.14	109.96
3	C	315	SER	CA-C-O	-16.19	101.97	121.56
5	Y	4	HIS	N-CA-CB	-16.19	83.52	111.69
4	D	35	ARG	CD-NE-CZ	16.15	147.01	124.40
6	V	456	ASN	CB-CG-ND2	16.15	140.62	116.40
3	C	714	SER	N-CA-C	16.13	130.53	111.82
6	P	456	ASN	CB-CG-ND2	16.10	140.55	116.40
6	J	456	ASN	CB-CG-ND2	16.09	140.53	116.40
4	D	184	HIS	N-CA-C	16.06	130.18	111.71
6	O	248	GLU	CB-CG-CD	16.05	139.88	112.60
5	M	169	ASN	CA-CB-CG	15.98	128.58	112.60
6	V	418	ASN	CA-CB-CG	-15.97	96.63	112.60
6	P	418	ASN	CA-CB-CG	-15.96	96.64	112.60
6	I	414	GLN	CB-CG-CD	-15.96	85.47	112.60
6	Q	44	THR	CA-CB-CG2	15.93	137.58	110.50
6	K	44	THR	CA-CB-CG2	15.91	137.56	110.50
6	W	44	THR	CA-CB-CG2	15.88	137.49	110.50
6	W	147	ARG	NH1-CZ-NH2	-15.87	98.67	119.30
6	V	456	ASN	OD1-CG-ND2	15.84	138.44	122.60
6	J	154	ARG	NE-CZ-NH1	-15.82	105.68	121.50
6	X	494	THR	CA-CB-OG1	15.81	133.31	109.60
6	O	414	GLN	CB-CG-CD	-15.75	85.83	112.60
6	Q	417	PHE	N-CA-C	15.70	133.35	109.96
5	R	178	ASP	CA-CB-CG	15.70	128.30	112.60
6	Q	154	ARG	NE-CZ-NH1	-15.66	105.84	121.50
6	O	609	ARG	NH1-CZ-NH2	15.63	139.62	119.30
5	N	178	ASP	CA-CB-CG	15.62	128.22	112.60
6	P	609	ARG	NH1-CZ-NH2	15.61	139.59	119.30
5	H	169	ASN	CA-CB-CG	15.58	128.18	112.60
6	O	154	ARG	NE-CZ-NH1	-15.54	105.96	121.50
6	I	609	ARG	NH1-CZ-NH2	15.54	139.50	119.30
6	U	154	ARG	NE-CZ-NH1	-15.47	106.03	121.50
2	B	452	ARG	NE-CZ-NH2	-15.46	105.29	119.20
6	U	609	ARG	NH1-CZ-NH2	15.45	139.38	119.30
6	P	154	ARG	NE-CZ-NH1	-15.44	106.06	121.50
5	R	169	ASN	CA-CB-CG	15.42	128.02	112.60
2	B	1182	ASN	N-CA-CB	15.37	134.16	109.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	V	154	ARG	NE-CZ-NH1	-15.36	106.14	121.50
5	S	169	ASN	CA-CB-CG	15.33	127.93	112.60
5	G	169	ASN	CA-CB-CG	15.33	127.93	112.60
6	W	154	ARG	NE-CZ-NH1	-15.33	106.17	121.50
6	U	414	GLN	CB-CG-CD	-15.32	86.56	112.60
5	R	261	ASP	CA-CB-CG	15.31	127.91	112.60
5	T	261	ASP	CA-CB-CG	15.29	127.89	112.60
6	K	459	LEU	N-CA-C	15.28	132.42	112.26
6	I	154	ARG	NE-CZ-NH1	-15.24	106.25	121.50
6	J	609	ARG	NH1-CZ-NH2	15.24	139.12	119.30
5	Y	169	ASN	CA-CB-CG	15.24	127.84	112.60
5	T	169	ASN	CA-CB-CG	15.23	127.83	112.60
5	S	261	ASP	CA-CB-CG	15.21	127.81	112.60
6	P	456	ASN	CA-CB-CG	-15.21	97.39	112.60
5	F	169	ASN	CA-CB-CG	15.18	127.78	112.60
5	H	178	ASP	CA-CB-CG	15.15	127.75	112.60
5	L	169	ASN	CA-CB-CG	15.14	127.74	112.60
6	V	609	ARG	NH1-CZ-NH2	15.14	138.98	119.30
5	L	178	ASP	CA-CB-CG	15.13	127.73	112.60
5	F	178	ASP	CA-CB-CG	15.12	127.72	112.60
5	G	178	ASP	CA-CB-CG	15.11	127.71	112.60
3	C	797	ALA	N-CA-C	15.10	142.97	110.80
5	Y	261	ASP	CA-CB-CG	15.10	127.70	112.60
5	T	178	ASP	CA-CB-CG	15.09	127.69	112.60
4	D	32	CYS	N-CA-C	-15.07	94.89	113.28
5	S	178	ASP	CA-CB-CG	15.06	127.66	112.60
6	I	147	ARG	CB-CG-CD	-15.03	76.73	111.30
5	H	261	ASP	CA-CB-CG	15.02	127.62	112.60
5	N	169	ASN	CA-CB-CG	15.00	127.60	112.60
6	P	100	LYS	CD-CE-NZ	14.97	159.81	111.90
5	F	261	ASP	CA-CB-CG	14.92	127.52	112.60
2	B	1211	ARG	NE-CZ-NH2	-14.90	105.79	119.20
2	B	437	ARG	NE-CZ-NH1	-14.87	106.63	121.50
5	M	261	ASP	CA-CB-CG	14.86	127.46	112.60
6	J	456	ASN	CA-CB-CG	-14.85	97.75	112.60
3	C	552	ASP	CB-CG-OD2	-14.84	84.28	118.40
5	N	261	ASP	CA-CB-CG	14.79	127.39	112.60
6	K	154	ARG	NE-CZ-NH1	-14.76	106.74	121.50
5	L	261	ASP	CA-CB-CG	14.67	127.27	112.60
6	V	456	ASN	CA-CB-CG	-14.60	98.00	112.60
5	M	178	ASP	CA-CB-CG	14.59	127.19	112.60
3	C	315	SER	CB-CA-C	14.59	135.97	109.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	G	261	ASP	CA-CB-CG	14.55	127.15	112.60
3	C	165	ASP	CA-CB-CG	14.50	127.10	112.60
5	Y	178	ASP	CA-CB-CG	14.48	127.08	112.60
6	U	472	ARG	CD-NE-CZ	14.43	144.60	124.40
4	E	13	PHE	CA-CB-CG	14.41	128.21	113.80
2	B	954	PRO	N-CA-CB	14.40	118.38	103.25
6	O	472	ARG	CD-NE-CZ	14.39	144.54	124.40
6	J	414	GLN	CB-CG-CD	-14.35	88.21	112.60
6	I	472	ARG	CD-NE-CZ	14.30	144.41	124.40
2	B	1117	PHE	CA-CB-CG	14.25	128.05	113.80
2	B	333	PHE	CA-CB-CG	14.24	128.04	113.80
6	P	414	GLN	CB-CG-CD	-14.24	88.39	112.60
6	W	456	ASN	CB-CG-ND2	14.14	137.62	116.40
6	V	333	PRO	CA-C-O	-14.13	94.88	120.60
1	A	787	HIS	CA-CB-CG	14.10	127.90	113.80
6	P	147	ARG	NH1-CZ-NH2	14.07	137.59	119.30
6	P	459	LEU	N-CA-C	14.06	133.47	111.81
6	V	414	GLN	CB-CG-CD	-13.92	88.93	112.60
6	J	459	LEU	N-CA-C	13.92	133.25	111.81
3	C	649	ASN	N-CA-C	13.89	131.78	113.72
6	J	472	ARG	CD-NE-CZ	13.86	143.81	124.40
6	K	164	ASP	CA-CB-CG	13.86	126.45	112.60
6	P	472	ARG	CD-NE-CZ	13.85	143.79	124.40
6	X	587	GLY	CA-C-N	13.82	147.70	122.13
6	X	587	GLY	C-N-CA	13.82	147.70	122.13
6	O	562	TYR	CG-CD1-CE1	-13.79	100.51	121.20
6	Q	164	ASP	CA-CB-CG	13.77	126.37	112.60
6	Q	456	ASN	CB-CG-ND2	13.77	137.06	116.40
6	J	333	PRO	CA-C-O	-13.75	95.58	120.60
6	X	164	ASP	CA-CB-CG	13.74	126.34	112.60
6	P	333	PRO	CA-C-O	-13.73	95.62	120.60
4	E	344	ASP	CA-CB-CG	13.71	126.31	112.60
6	O	164	ASP	CA-CB-CG	13.69	126.29	112.60
6	I	164	ASP	CA-CB-CG	13.69	126.29	112.60
6	Q	472	ARG	CD-NE-CZ	13.66	143.53	124.40
6	J	44	THR	CA-CB-CG2	13.65	133.71	110.50
1	A	1231	PHE	CA-CB-CG	13.65	127.45	113.80
6	O	298	PHE	CD1-CE1-CZ	-13.64	95.45	120.00
6	P	248	GLU	CB-CG-CD	13.62	135.76	112.60
6	K	456	ASN	CB-CG-ND2	13.62	136.83	116.40
6	I	562	TYR	CG-CD1-CE1	-13.59	100.81	121.20
6	P	54	SER	O-C-N	-13.59	104.52	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	Q	414	GLN	CB-CG-CD	-13.58	89.51	112.60
1	A	581	ASP	CA-CB-CG	13.57	126.17	112.60
4	E	410	MET	N-CA-C	13.54	127.72	111.33
6	P	164	ASP	CA-CB-CG	13.54	126.14	112.60
6	P	44	THR	CA-CB-CG2	13.54	133.51	110.50
6	Q	459	LEU	N-CA-C	13.53	132.65	111.81
6	U	298	PHE	CD1-CE1-CZ	-13.53	95.65	120.00
4	D	388	PRO	CA-C-O	-13.52	105.35	121.98
2	B	1192	ASN	CA-CB-CG	13.52	126.12	112.60
6	V	562	TYR	CG-CD1-CE1	-13.52	100.93	121.20
6	U	164	ASP	CA-CB-CG	13.51	126.11	112.60
2	B	376	LEU	CA-C-O	13.50	135.41	119.48
2	B	649	ASN	CA-CB-CG	13.47	126.07	112.60
6	V	472	ARG	CD-NE-CZ	13.47	143.26	124.40
6	V	459	LEU	N-CA-C	13.43	132.49	111.81
6	J	248	GLU	CB-CG-CD	13.41	135.40	112.60
6	Q	147	ARG	NH1-CZ-NH2	-13.40	101.88	119.30
5	R	97	ARG	N-CA-C	13.39	127.35	111.02
6	V	248	GLU	CB-CG-CD	13.38	135.34	112.60
6	W	164	ASP	CA-CB-CG	13.36	125.96	112.60
6	I	298	PHE	CD1-CE1-CZ	-13.36	95.95	120.00
6	V	44	THR	CA-CB-CG2	13.35	133.20	110.50
5	Y	97	ARG	N-CA-C	13.33	127.28	111.02
1	A	583	ASP	CA-CB-CG	13.32	125.92	112.60
6	I	459	LEU	N-CA-C	13.31	132.31	111.81
3	C	699	ASN	CA-CB-CG	13.31	125.91	112.60
6	W	472	ARG	CD-NE-CZ	13.29	143.01	124.40
5	M	272	VAL	N-CA-C	13.27	125.64	112.90
5	N	97	ARG	N-CA-C	13.25	127.18	111.02
6	J	164	ASP	CA-CB-CG	13.25	125.85	112.60
3	C	795	ASP	CB-CG-OD2	13.24	148.84	118.40
2	B	407	ARG	CD-NE-CZ	13.23	142.92	124.40
6	P	562	TYR	CG-CD1-CE1	-13.22	101.37	121.20
3	C	979	ARG	NE-CZ-NH2	-13.20	107.32	119.20
6	V	417	PHE	N-CA-C	13.20	138.92	110.80
6	K	414	GLN	CB-CG-CD	-13.19	90.18	112.60
6	V	164	ASP	CA-CB-CG	13.15	125.75	112.60
3	C	1034	ASP	CA-CB-CG	13.15	125.75	112.60
2	B	1181	THR	CA-C-O	-13.14	106.78	120.71
6	U	562	TYR	CG-CD1-CE1	-13.13	101.50	121.20
6	W	562	TYR	CG-CD1-CE1	-13.12	101.52	121.20
2	B	194	ILE	N-CA-C	13.10	125.54	106.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	562	TYR	CG-CD1-CE1	-13.08	101.58	121.20
6	W	414	GLN	CB-CG-CD	-13.08	90.36	112.60
6	U	459	LEU	N-CA-C	13.06	131.93	111.81
1	A	825	ASN	CA-CB-CG	13.03	125.63	112.60
5	F	97	ARG	N-CA-C	13.02	126.90	111.02
6	X	494	THR	CA-CB-CG2	13.02	132.63	110.50
2	B	921	ASP	CA-CB-CG	13.01	125.61	112.60
1	A	813	ALA	N-CA-C	13.00	125.45	111.28
5	M	97	ARG	N-CA-C	12.97	126.84	111.02
6	O	459	LEU	N-CA-C	12.96	131.77	111.81
6	K	472	ARG	CD-NE-CZ	12.92	142.49	124.40
5	R	272	VAL	N-CA-C	12.90	125.29	112.90
1	A	1083	GLY	N-CA-C	12.86	127.29	111.85
5	N	272	VAL	N-CA-C	12.86	125.25	112.90
1	A	587	ASP	N-CA-C	12.84	125.36	111.36
5	F	272	VAL	N-CA-C	12.83	125.22	112.90
5	L	97	ARG	N-CA-C	12.80	126.63	111.02
6	Q	87	PHE	CA-CB-CG	12.77	126.57	113.80
5	H	97	ARG	N-CA-C	12.76	126.59	111.02
6	J	417	PHE	N-CA-C	12.76	137.97	110.80
6	O	87	PHE	CA-CB-CG	12.72	126.53	113.80
5	G	97	ARG	N-CA-C	12.65	126.46	111.02
1	A	204	VAL	N-CA-CB	12.65	124.93	112.28
6	K	562	TYR	CG-CD1-CE1	-12.63	102.26	121.20
5	S	97	ARG	N-CA-C	12.62	126.42	111.02
4	D	251	ASN	OD1-CG-ND2	12.58	135.18	122.60
6	Q	562	TYR	CG-CD1-CE1	-12.57	102.34	121.20
6	V	87	PHE	CA-CB-CG	12.57	126.37	113.80
6	I	147	ARG	NE-CZ-NH1	-12.57	108.93	121.50
6	P	55	VAL	CA-C-N	12.56	145.53	121.54
6	P	55	VAL	C-N-CA	12.56	145.53	121.54
6	U	533	ASP	CA-CB-CG	12.55	125.15	112.60
6	I	504	ASN	CA-CB-CG	12.53	125.13	112.60
6	P	417	PHE	N-CA-C	12.47	137.37	110.80
4	D	108	PRO	N-CA-C	12.46	125.90	110.70
6	U	87	PHE	CA-CB-CG	12.46	126.26	113.80
6	J	87	PHE	CA-CB-CG	12.42	126.22	113.80
6	I	87	PHE	CA-CB-CG	12.42	126.22	113.80
6	P	87	PHE	CA-CB-CG	12.41	126.21	113.80
1	A	46	ALA	N-CA-C	12.41	128.69	108.96
5	T	97	ARG	N-CA-C	12.41	126.16	111.02
6	K	87	PHE	CA-CB-CG	12.40	126.20	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	K	504	ASN	CA-CB-CG	12.40	125.00	112.60
1	A	208	SER	N-CA-C	12.40	124.34	111.07
6	O	242	PHE	N-CA-C	12.38	126.18	111.82
3	C	795	ASP	OD1-CG-OD2	-12.38	93.20	122.90
5	Y	272	VAL	N-CA-C	12.38	124.78	112.90
6	K	242	PHE	N-CA-C	12.35	126.14	111.82
6	V	300	LYS	CD-CE-NZ	-12.34	72.42	111.90
6	J	300	LYS	CD-CE-NZ	-12.33	72.43	111.90
6	W	147	ARG	CG-CD-NE	12.32	139.11	112.00
1	A	576	GLY	N-CA-C	12.32	127.51	112.73
4	D	176	ALA	CB-CA-C	-12.28	84.40	110.32
6	P	300	LYS	CD-CE-NZ	-12.27	72.65	111.90
5	T	171	HIS	N-CA-C	12.24	129.93	113.77
6	V	168	THR	OG1-CB-CG2	-12.23	84.84	109.30
2	B	377	ILE	N-CA-CB	12.21	123.90	112.06
6	I	414	GLN	CG-CD-OE1	12.15	145.11	120.80
6	Q	333	PRO	CA-C-O	-12.14	98.50	120.60
6	O	504	ASN	CA-CB-CG	12.07	124.67	112.60
6	W	504	ASN	CA-CB-CG	12.06	124.66	112.60
6	W	242	PHE	N-CA-C	12.05	125.80	111.82
2	B	407	ARG	NH1-CZ-NH2	12.04	134.96	119.30
6	Q	242	PHE	N-CA-C	12.05	125.79	111.82
3	C	1060	ARG	NE-CZ-NH2	12.04	130.04	119.20
6	W	581	SER	N-CA-C	12.04	125.55	111.71
6	U	416	ARG	CB-CA-C	12.02	130.09	110.74
6	W	333	PRO	CA-C-O	-12.02	98.73	120.60
6	P	168	THR	OG1-CB-CG2	-12.02	85.27	109.30
6	P	504	ASN	CA-CB-CG	12.01	124.61	112.60
5	R	171	HIS	N-CA-C	12.01	129.62	113.77
6	J	168	THR	OG1-CB-CG2	-12.01	85.29	109.30
6	O	416	ARG	CB-CA-C	12.00	130.06	110.74
6	K	298	PHE	CD1-CE1-CZ	-11.99	98.42	120.00
1	A	633	ASN	CA-CB-CG	11.99	124.59	112.60
6	U	414	GLN	CG-CD-OE1	11.99	144.78	120.80
3	C	1195	TYR	N-CA-CB	-11.98	91.74	110.55
6	K	333	PRO	CA-C-O	-11.98	98.80	120.60
5	M	77	GLU	O-C-N	11.96	134.47	122.03
6	U	504	ASN	CA-CB-CG	11.97	124.57	112.60
1	A	334	ARG	NE-CZ-NH2	11.96	129.96	119.20
6	I	533	ASP	CA-CB-CG	11.95	124.55	112.60
6	V	154	ARG	NE-CZ-NH2	11.95	129.95	119.20
3	C	635	GLN	OE1-CD-NE2	-11.94	110.66	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1056	ASP	CA-CB-CG	11.92	124.52	112.60
6	Q	147	ARG	CD-NE-CZ	-11.92	107.71	124.40
6	W	412	ARG	NH1-CZ-NH2	-11.91	103.82	119.30
6	U	66	ASP	CA-CB-CG	11.90	124.50	112.60
4	D	242	ASN	CA-CB-CG	11.90	124.50	112.60
5	T	260	PHE	N-CA-C	11.88	123.97	111.14
1	A	273	ASN	CA-CB-CG	11.87	124.47	112.60
4	E	184	HIS	CA-CB-CG	11.87	125.67	113.80
5	L	171	HIS	N-CA-C	11.86	129.43	113.77
5	H	145	ARG	NE-CZ-NH2	11.86	129.88	119.20
6	P	533	ASP	CA-CB-CG	11.85	124.45	112.60
3	C	686	ARG	NE-CZ-NH2	11.85	129.87	119.20
6	W	87	PHE	CA-CB-CG	11.83	125.63	113.80
5	S	77	GLU	O-C-N	11.83	134.33	122.03
6	W	298	PHE	CD1-CE1-CZ	-11.81	98.73	120.00
3	C	315	SER	O-C-N	-11.80	107.88	123.10
6	O	285	PHE	CA-CB-CG	11.80	125.60	113.80
4	E	339	LEU	N-CA-C	11.80	126.93	112.54
6	J	242	PHE	N-CA-C	11.80	125.50	111.82
1	A	877	GLY	N-CA-C	11.79	123.15	111.95
6	Q	298	PHE	CD1-CE1-CZ	-11.79	98.77	120.00
6	J	581	SER	N-CA-C	11.78	125.26	111.71
3	C	715	VAL	N-CA-CB	11.77	130.65	111.23
4	D	389	PHE	CB-CA-C	-11.77	87.00	110.42
6	J	533	ASP	CA-CB-CG	11.76	124.36	112.60
6	Q	504	ASN	CA-CB-CG	11.76	124.36	112.60
6	X	537	SER	N-CA-C	11.75	125.22	111.71
2	B	930	ARG	NE-CZ-NH1	-11.74	109.76	121.50
2	B	1190	LEU	N-CA-C	11.74	129.03	113.30
6	J	504	ASN	CA-CB-CG	11.72	124.32	112.60
1	A	350	PHE	CA-CB-CG	11.72	125.52	113.80
3	C	315	SER	N-CA-CB	11.71	128.89	110.85
5	G	145	ARG	NE-CZ-NH2	11.71	129.74	119.20
1	A	490	ASP	CA-CB-CG	11.70	124.30	112.60
6	U	242	PHE	N-CA-C	11.69	125.38	111.82
6	Q	537	SER	N-CA-C	11.68	126.63	112.38
6	P	242	PHE	N-CA-C	11.67	125.36	111.82
6	W	537	SER	N-CA-C	11.66	126.61	112.38
6	O	414	GLN	CG-CD-OE1	11.65	144.10	120.80
6	O	453	ASN	CA-CB-CG	11.64	124.24	112.60
6	I	581	SER	N-CA-C	11.63	125.09	111.71
6	V	504	ASN	CA-CB-CG	11.63	124.23	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	I	242	PHE	N-CA-C	11.61	125.28	111.82
5	L	260	PHE	N-CA-C	11.60	123.67	111.14
5	S	260	PHE	N-CA-C	11.60	123.67	111.14
6	U	412	ARG	NE-CZ-NH2	-11.59	108.77	119.20
6	O	412	ARG	NE-CZ-NH2	-11.59	108.77	119.20
6	X	581	SER	N-CA-C	11.58	125.03	111.71
6	O	421	HIS	CA-CB-CG	11.57	125.37	113.80
6	V	612	SER	CA-CB-OG	-11.56	87.98	111.10
6	K	581	SER	N-CA-C	11.56	125.00	111.71
6	Q	285	PHE	CA-CB-CG	11.54	125.34	113.80
6	X	504	ASN	CA-CB-CG	11.54	124.14	112.60
6	U	285	PHE	CA-CB-CG	11.53	125.33	113.80
3	C	670	ILE	N-CA-CB	11.51	123.92	111.61
6	J	154	ARG	NE-CZ-NH2	11.51	129.55	119.20
6	J	612	SER	CA-CB-OG	-11.51	88.09	111.10
6	O	417	PHE	N-CA-C	11.50	135.29	110.80
6	J	578	SER	N-CA-C	11.50	124.93	111.71
1	A	700	VAL	CB-CA-C	11.49	124.40	111.18
5	R	77	GLU	O-C-N	11.49	133.98	122.03
6	V	533	ASP	CA-CB-CG	11.49	124.09	112.60
6	X	285	PHE	CA-CB-CG	11.48	125.28	113.80
2	B	1036	ASN	CA-CB-CG	11.48	124.08	112.60
6	W	285	PHE	CA-CB-CG	11.48	125.28	113.80
5	T	77	GLU	O-C-N	11.47	133.96	122.03
6	I	128	ASP	N-CA-C	11.47	125.12	111.82
6	P	581	SER	N-CA-C	11.46	124.89	111.71
5	G	171	HIS	N-CA-C	11.46	128.89	113.77
4	E	308	TRP	N-CA-C	11.45	123.77	111.28
6	P	612	SER	CA-CB-OG	-11.45	88.19	111.10
6	I	416	ARG	CB-CA-C	11.45	129.17	110.74
6	O	533	ASP	CA-CB-CG	11.45	124.05	112.60
1	A	1032	THR	N-CA-C	11.44	118.43	108.13
6	W	533	ASP	CA-CB-CG	11.44	124.04	112.60
5	S	171	HIS	N-CA-C	11.44	128.87	113.77
4	D	184	HIS	CE1-NE2-CD2	-11.44	97.56	109.00
5	G	260	PHE	N-CA-C	11.43	123.48	111.14
6	P	578	SER	N-CA-C	11.41	124.83	111.71
3	C	869	SER	N-CA-C	11.40	123.71	111.28
2	B	904	ALA	N-CA-C	11.39	123.70	111.28
6	W	453	ASN	CA-CB-CG	11.39	123.99	112.60
6	I	624	LEU	N-CA-C	11.38	124.77	111.11
6	J	154	ARG	N-CA-C	11.38	126.66	113.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	K	421	HIS	CA-CB-CG	11.37	125.17	113.80
5	M	260	PHE	N-CA-C	11.36	123.41	111.14
5	Y	260	PHE	N-CA-C	11.35	123.40	111.14
1	A	229	HIS	CB-CG-CD2	-11.35	116.44	131.20
6	U	417	PHE	N-CA-C	11.35	134.97	110.80
6	K	453	ASN	CA-CB-CG	11.33	123.93	112.60
5	Y	145	ARG	NE-CZ-NH2	11.32	129.39	119.20
6	J	453	ASN	CA-CB-CG	11.32	123.92	112.60
6	O	66	ASP	CA-CB-CG	11.32	123.92	112.60
5	N	260	PHE	N-CA-C	11.31	123.36	111.14
6	Q	412	ARG	NH1-CZ-NH2	-11.31	104.59	119.30
6	P	128	ASP	N-CA-C	11.31	124.94	111.82
6	Q	533	ASP	CA-CB-CG	11.30	123.90	112.60
1	A	465	PHE	CA-CB-CG	11.30	125.10	113.80
6	P	154	ARG	NE-CZ-NH2	11.30	129.37	119.20
6	V	128	ASP	N-CA-C	11.30	124.93	111.82
6	J	421	HIS	CA-CB-CG	11.28	125.08	113.80
6	Q	247	SER	N-CA-C	11.27	126.18	111.75
6	Q	421	HIS	CA-CB-CG	11.27	125.07	113.80
5	R	260	PHE	N-CA-C	11.27	123.31	111.14
6	J	128	ASP	N-CA-C	11.26	124.89	111.82
6	O	28	SER	CA-C-N	11.25	143.03	121.54
6	O	28	SER	C-N-CA	11.25	143.03	121.54
1	A	492	ALA	N-CA-C	11.25	124.61	111.11
6	I	412	ARG	NE-CZ-NH2	-11.25	109.07	119.20
2	B	408	SER	N-CA-C	11.25	124.94	111.33
5	R	145	ARG	NE-CZ-NH2	11.22	129.29	119.20
6	U	624	LEU	N-CA-C	11.21	124.56	111.11
6	V	578	SER	N-CA-C	11.21	124.60	111.71
4	D	109	PRO	N-CA-C	11.20	124.36	110.70
4	D	175	MET	CA-C-N	-11.20	102.69	120.60
4	D	175	MET	C-N-CA	-11.20	102.69	120.60
5	T	145	ARG	NE-CZ-NH2	11.20	129.28	119.20
6	X	421	HIS	CA-CB-CG	11.19	124.99	113.80
5	H	260	PHE	N-CA-C	11.19	123.22	111.14
6	I	578	SER	N-CA-C	11.18	124.56	111.71
6	O	581	SER	N-CA-C	11.17	124.56	111.71
6	Q	453	ASN	CA-CB-CG	11.17	123.77	112.60
6	X	624	LEU	N-CA-C	11.16	124.50	111.11
3	C	1186	ASN	N-CA-C	11.15	123.12	110.97
6	I	147	ARG	NH1-CZ-NH2	-11.15	104.81	119.30
5	R	16	ALA	N-CA-C	11.14	123.43	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	I	28	SER	CA-C-N	11.13	142.81	121.54
6	I	28	SER	C-N-CA	11.13	142.81	121.54
6	J	459	LEU	O-C-N	11.13	137.00	121.97
6	Q	581	SER	N-CA-C	11.13	124.51	111.71
6	V	242	PHE	N-CA-C	11.13	124.73	111.82
6	W	624	LEU	N-CA-C	11.13	124.46	111.11
6	Q	128	ASP	N-CA-C	11.13	124.73	111.82
6	U	453	ASN	CA-CB-CG	11.12	123.72	112.60
2	B	1213	ALA	O-C-N	-11.11	107.08	122.41
6	O	32	PRO	N-CA-CB	11.11	114.91	103.25
6	V	421	HIS	CA-CB-CG	11.11	124.91	113.80
6	W	247	SER	N-CA-C	11.11	125.97	111.75
5	Y	198	HIS	ND1-CE1-NE2	11.11	119.51	108.40
6	U	128	ASP	N-CA-C	11.10	124.70	111.82
6	W	578	SER	N-CA-C	11.10	124.48	111.71
6	O	333	PRO	CA-C-O	-11.10	100.40	120.60
5	G	272	VAL	N-CA-C	11.09	125.52	113.43
6	I	417	PHE	N-CA-C	11.09	134.42	110.80
6	W	459	LEU	O-C-N	11.09	136.40	122.20
4	E	350	ALA	N-CA-C	11.09	125.07	110.88
5	N	145	ARG	NE-CZ-NH2	11.09	129.18	119.20
5	L	77	GLU	O-C-N	11.08	133.56	122.03
5	F	77	GLU	O-C-N	11.08	133.55	122.03
3	C	120	ASN	CA-CB-CG	11.07	123.67	112.60
3	C	452	ARG	NE-CZ-NH1	-11.07	110.42	121.50
6	P	285	PHE	CA-CB-CG	11.07	124.87	113.80
1	A	396	ARG	NE-CZ-NH2	11.06	129.16	119.20
6	P	154	ARG	N-CA-C	11.06	126.28	113.01
6	K	537	SER	N-CA-C	11.06	125.87	112.38
6	W	28	SER	CA-C-N	11.05	142.65	121.54
6	W	28	SER	C-N-CA	11.05	142.65	121.54
5	H	77	GLU	O-C-N	11.05	133.90	122.08
5	N	77	GLU	O-C-N	11.05	133.90	122.08
6	O	624	LEU	N-CA-C	11.04	124.36	111.11
6	K	416	ARG	CB-CA-C	11.04	128.52	110.74
6	U	459	LEU	O-C-N	11.04	136.87	121.97
6	J	624	LEU	N-CA-C	11.04	124.35	111.11
2	B	308	ASN	CA-CB-CG	11.03	123.63	112.60
6	K	624	LEU	N-CA-C	11.03	124.35	111.11
3	C	1036	ASN	N-CA-C	11.03	123.81	110.91
6	Q	28	SER	CA-C-N	11.03	142.60	121.54
6	Q	28	SER	C-N-CA	11.03	142.60	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1202	HIS	CB-CG-CD2	-11.02	116.87	131.20
6	K	28	SER	CA-C-N	11.02	142.58	121.54
6	K	28	SER	C-N-CA	11.02	142.58	121.54
6	O	459	LEU	O-C-N	11.02	136.84	121.97
6	U	333	PRO	CA-C-O	-11.02	100.55	120.60
5	G	77	GLU	O-C-N	11.02	133.49	122.03
6	I	285	PHE	CA-CB-CG	11.02	124.82	113.80
6	Q	578	SER	N-CA-C	11.01	124.38	111.71
5	F	198	HIS	ND1-CE1-NE2	11.01	119.41	108.40
6	U	28	SER	CA-C-N	11.01	142.57	121.54
6	U	28	SER	C-N-CA	11.01	142.57	121.54
6	U	537	SER	N-CA-C	11.01	125.81	112.38
6	P	453	ASN	CA-CB-CG	11.00	123.60	112.60
1	A	766	LEU	N-CA-C	10.99	122.83	111.07
6	X	625	ARG	NE-CZ-NH1	-10.99	110.51	121.50
6	W	421	HIS	CA-CB-CG	10.99	124.79	113.80
5	R	198	HIS	ND1-CE1-NE2	10.99	119.39	108.40
4	E	195	GLN	CB-CA-C	-10.98	92.57	110.79
5	F	260	PHE	N-CA-C	10.98	123.00	111.14
6	P	459	LEU	O-C-N	10.97	136.79	121.97
6	V	453	ASN	CA-CB-CG	10.97	123.57	112.60
2	B	952	PRO	N-CA-C	10.97	128.20	110.21
6	K	412	ARG	NH1-CZ-NH2	-10.96	105.06	119.30
6	I	537	SER	N-CA-C	10.95	125.74	112.38
5	M	145	ARG	NE-CZ-NH2	10.95	129.05	119.20
6	O	128	ASP	N-CA-C	10.95	124.52	111.82
6	P	49	ARG	CD-NE-CZ	10.95	139.73	124.40
6	W	456	ASN	CA-CB-CG	-10.95	101.65	112.60
2	B	842	ALA	N-CA-C	10.94	134.00	109.81
6	W	128	ASP	N-CA-C	10.94	124.51	111.82
6	W	111	PHE	N-CA-C	10.93	123.28	111.36
6	V	459	LEU	O-C-N	10.93	136.72	121.97
6	I	421	HIS	CA-CB-CG	10.92	124.72	113.80
6	V	285	PHE	CA-CB-CG	10.92	124.72	113.80
6	I	453	ASN	CA-CB-CG	10.91	123.51	112.60
6	Q	416	ARG	CB-CA-C	10.91	128.30	110.74
5	S	16	ALA	N-CA-C	10.91	123.17	111.28
6	W	416	ARG	CB-CA-C	10.91	128.31	110.74
6	X	128	ASP	N-CA-C	10.91	124.47	111.82
3	C	138	SER	N-CA-C	10.90	125.95	112.87
4	D	12	ASN	CA-CB-CG	10.90	123.50	112.60
6	U	578	SER	N-CA-C	10.90	124.25	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	906	ASN	CA-CB-CG	10.90	123.50	112.60
5	L	16	ALA	N-CA-C	10.90	123.16	111.28
3	C	508	ILE	N-CA-C	10.89	123.49	107.37
5	H	4	HIS	CA-CB-CG	-10.88	102.92	113.80
6	I	32	PRO	N-CA-CB	10.88	114.67	103.25
5	L	145	ARG	NE-CZ-NH2	10.88	128.99	119.20
6	O	537	SER	N-CA-C	10.88	125.65	112.38
6	I	155	ASP	CA-CB-CG	10.88	123.48	112.60
6	I	66	ASP	CA-CB-CG	10.87	123.47	112.60
6	V	154	ARG	N-CA-C	10.86	126.05	113.01
3	C	386	GLU	CG-CD-OE2	-10.86	93.42	118.40
6	Q	147	ARG	NE-CZ-NH1	-10.86	110.64	121.50
3	C	792	GLN	N-CA-C	10.86	124.33	110.65
3	C	1196	ARG	CG-CD-NE	10.86	135.89	112.00
6	O	578	SER	N-CA-C	10.86	124.19	111.71
5	M	198	HIS	ND1-CE1-NE2	10.85	119.25	108.40
5	T	16	ALA	N-CA-C	10.85	123.10	111.28
2	B	799	ASP	N-CA-C	10.84	124.63	111.40
6	J	285	PHE	CA-CB-CG	10.84	124.64	113.80
6	Q	456	ASN	CA-CB-CG	-10.83	101.77	112.60
6	X	87	PHE	CA-CB-CG	10.83	124.63	113.80
5	H	272	VAL	N-CA-C	10.83	125.23	113.43
6	P	421	HIS	CA-CB-CG	10.83	124.63	113.80
6	Q	624	LEU	N-CA-C	10.83	124.11	111.11
1	A	959	ASN	N-CA-C	10.83	124.38	111.82
2	B	953	GLY	O-C-N	-10.82	110.95	121.77
6	O	412	ARG	NH1-CZ-NH2	-10.81	105.25	119.30
5	S	272	VAL	N-CA-C	10.79	125.20	113.43
6	U	612	SER	CA-CB-OG	-10.79	89.52	111.10
6	O	612	SER	CA-CB-OG	-10.78	89.53	111.10
6	K	285	PHE	CA-CB-CG	10.78	124.58	113.80
6	X	453	ASN	CA-CB-CG	10.78	123.38	112.60
6	I	333	PRO	CA-C-O	-10.77	101.00	120.60
5	Y	191	LYS	N-CA-C	10.77	124.09	111.71
1	A	906	ALA	N-CA-C	10.77	126.21	113.18
5	S	145	ARG	NE-CZ-NH2	10.76	128.89	119.20
2	B	716	ASN	N-CA-C	10.74	125.50	111.75
3	C	208	ASP	CA-CB-CG	10.74	123.34	112.60
6	W	155	ASP	CA-CB-CG	10.74	123.34	112.60
5	G	16	ALA	N-CA-C	10.74	122.99	111.28
6	K	533	ASP	CA-CB-CG	10.73	123.33	112.60
6	U	111	PHE	N-CA-C	10.73	123.05	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	K	128	ASP	N-CA-C	10.72	124.26	111.82
1	A	865	ALA	N-CA-C	10.72	126.36	113.28
5	M	219	HIS	ND1-CE1-NE2	10.72	119.12	108.40
5	F	220	ASP	CA-CB-CG	10.72	123.32	112.60
2	B	1145	SER	N-CA-C	10.72	125.73	112.87
6	J	154	ARG	CA-CB-CG	10.71	135.52	114.10
6	K	578	SER	N-CA-C	10.70	124.02	111.71
2	B	239	ALA	N-CA-C	10.70	122.64	110.97
5	F	16	ALA	N-CA-C	10.70	122.94	111.28
5	L	272	VAL	N-CA-C	10.69	125.08	113.43
6	X	135	VAL	N-CA-C	10.69	122.46	108.35
4	D	56	ALA	N-CA-C	10.68	122.92	111.28
6	U	32	PRO	N-CA-CB	10.68	114.47	103.25
5	N	220	ASP	CA-CB-CG	10.67	123.27	112.60
6	V	624	LEU	N-CA-C	10.67	123.92	111.11
6	W	154	ARG	N-CA-C	10.67	125.56	112.54
3	C	397	HIS	N-CA-C	10.66	125.40	111.75
2	B	450	ASP	CB-CG-OD2	-10.66	93.89	118.40
6	U	534	SER	N-CA-C	10.65	133.50	110.80
5	S	220	ASP	CA-CB-CG	10.65	123.25	112.60
3	C	337	PRO	N-CA-CB	10.64	109.89	102.65
5	F	145	ARG	NE-CZ-NH2	10.64	128.78	119.20
2	B	1213	ALA	N-CA-CB	-10.64	95.36	110.46
5	H	220	ASP	CA-CB-CG	10.64	123.24	112.60
6	V	155	ASP	CA-CB-CG	10.64	123.24	112.60
1	A	717	ASP	CA-CB-CG	10.63	123.23	112.60
6	K	456	ASN	CA-CB-CG	-10.63	101.97	112.60
5	T	4	HIS	CA-CB-CG	-10.62	103.18	113.80
6	X	111	PHE	N-CA-C	10.62	122.93	111.36
4	D	46	ILE	N-CA-C	10.61	121.45	110.62
5	H	16	ALA	N-CA-C	10.62	122.85	111.28
5	Y	16	ALA	N-CA-C	10.62	122.85	111.28
5	Y	77	GLU	O-C-N	10.61	133.06	122.03
2	B	738	GLN	N-CA-C	10.61	125.48	112.54
6	I	612	SER	CA-CB-OG	-10.61	89.89	111.10
5	T	272	VAL	N-CA-C	10.61	124.99	113.43
2	B	293	LEU	N-CA-C	10.60	122.42	111.07
4	E	192	PHE	N-CA-C	10.60	133.38	110.80
5	L	219	HIS	ND1-CE1-NE2	10.60	119.00	108.40
5	N	198	HIS	ND1-CE1-NE2	10.60	119.00	108.40
6	U	155	ASP	CA-CB-CG	10.59	123.19	112.60
6	U	421	HIS	CA-CB-CG	10.59	124.39	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	416	ARG	N-CA-C	-10.58	89.51	108.02
6	K	612	SER	CA-CB-OG	-10.57	89.97	111.10
6	K	135	VAL	N-CA-C	10.56	122.30	108.35
4	D	321	GLY	O-C-N	10.56	132.06	122.77
2	B	734	THR	N-CA-C	10.56	122.79	111.28
6	K	32	PRO	N-CA-CB	10.55	114.33	103.25
5	L	191	LYS	N-CA-C	10.54	123.84	111.71
6	K	247	SER	N-CA-C	10.54	125.24	111.75
5	R	219	HIS	ND1-CE1-NE2	10.54	118.94	108.40
5	F	207	VAL	N-CA-C	10.53	131.24	109.34
2	B	450	ASP	O-C-N	10.53	134.53	122.22
3	C	1110	ALA	N-CA-C	10.53	126.43	113.17
3	C	570	THR	N-CA-C	10.52	122.75	111.28
6	I	154	ARG	N-CA-C	10.52	125.38	112.54
2	B	376	LEU	CA-C-N	-10.52	110.12	122.22
2	B	376	LEU	C-N-CA	-10.52	110.12	122.22
3	C	547	GLU	N-CA-C	10.52	125.21	111.75
5	S	198	HIS	ND1-CE1-NE2	10.52	118.92	108.40
6	X	637	PHE	CA-CB-CG	10.52	124.32	113.80
4	E	108	PRO	N-CA-C	10.50	123.51	110.70
6	I	459	LEU	O-C-N	10.48	136.12	121.97
3	C	889	ARG	NE-CZ-NH2	10.48	128.63	119.20
6	U	154	ARG	N-CA-C	10.48	125.33	112.54
6	J	28	SER	CA-C-N	10.48	141.56	121.54
6	J	28	SER	C-N-CA	10.48	141.56	121.54
6	O	534	SER	N-CA-C	10.48	133.12	110.80
4	D	71	LEU	O-C-N	10.47	133.29	122.08
6	P	624	LEU	N-CA-C	10.47	123.68	111.11
6	P	56	ALA	CB-CA-C	10.47	131.25	110.42
6	W	612	SER	CA-CB-OG	-10.47	90.16	111.10
3	C	669	PHE	CA-CB-CG	10.46	124.26	113.80
6	W	147	ARG	CB-CG-CD	-10.46	87.24	111.30
6	K	459	LEU	O-C-N	10.45	135.58	122.20
6	U	135	VAL	N-CA-C	10.45	122.15	108.35
4	D	389	PHE	N-CA-C	10.45	133.06	110.80
6	Q	612	SER	CA-CB-OG	-10.45	90.20	111.10
6	V	581	SER	N-CA-C	10.45	125.13	111.75
6	V	534	SER	N-CA-C	10.45	133.05	110.80
5	Y	220	ASP	CA-CB-CG	10.44	123.03	112.60
6	J	135	VAL	N-CA-C	10.43	122.12	108.35
6	X	147	ARG	NE-CZ-NH1	-10.43	111.07	121.50
6	K	154	ARG	N-CA-C	10.43	125.27	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	598	PRO	N-CA-CB	10.43	110.22	103.23
6	P	537	SER	N-CA-C	10.43	125.10	112.38
5	M	220	ASP	CA-CB-CG	10.43	123.03	112.60
6	V	637	PHE	CA-CB-CG	10.42	124.22	113.80
5	N	16	ALA	N-CA-C	10.42	122.64	111.28
6	I	534	SER	N-CA-C	10.42	132.99	110.80
5	M	16	ALA	N-CA-C	10.42	122.63	111.28
6	Q	32	PRO	N-CA-CB	10.42	114.19	103.25
6	V	32	PRO	N-CA-CB	10.41	114.19	103.25
6	O	155	ASP	CA-CB-CG	10.41	123.01	112.60
2	B	276	THR	N-CA-C	10.40	122.62	111.28
5	S	191	LYS	N-CA-C	10.40	123.67	111.71
6	P	55	VAL	CB-CA-C	10.39	128.34	111.29
2	B	792	GLN	OE1-CD-NE2	-10.39	112.21	122.60
6	O	154	ARG	N-CA-C	10.38	125.21	112.54
6	I	135	VAL	N-CA-C	10.38	122.06	108.35
6	W	637	PHE	CA-CB-CG	10.38	124.18	113.80
5	H	80	ARG	O-C-N	10.38	132.76	122.07
6	I	412	ARG	NH1-CZ-NH2	-10.38	105.81	119.30
6	P	54	SER	CA-C-N	10.38	140.65	121.97
6	P	54	SER	C-N-CA	10.38	140.65	121.97
3	C	372	ASP	CA-CB-CG	10.37	122.97	112.60
6	U	581	SER	N-CA-C	10.37	125.03	111.75
6	V	28	SER	CA-C-N	10.37	141.35	121.54
6	V	28	SER	C-N-CA	10.37	141.35	121.54
6	V	135	VAL	N-CA-C	10.36	122.03	108.35
4	D	237	ALA	N-CA-C	10.36	124.82	109.59
4	E	142	VAL	N-CA-CB	10.36	122.67	110.55
6	U	412	ARG	NH1-CZ-NH2	-10.36	105.84	119.30
2	B	681	ASN	CA-CB-CG	10.35	122.95	112.60
4	D	198	GLN	CG-CD-OE1	-10.35	100.10	120.80
6	J	537	SER	N-CA-C	10.35	125.01	112.38
4	E	43	HIS	ND1-CE1-NE2	10.35	118.75	108.40
1	A	1064	GLN	N-CA-C	10.35	124.86	109.24
6	P	28	SER	CA-C-N	10.35	141.30	121.54
6	P	28	SER	C-N-CA	10.35	141.30	121.54
5	M	4	HIS	CA-CB-CG	-10.34	103.46	113.80
6	J	100	LYS	N-CA-C	10.34	125.55	111.90
5	R	220	ASP	CA-CB-CG	10.34	122.94	112.60
4	D	183	ALA	O-C-N	10.34	133.14	122.08
6	U	637	PHE	CA-CB-CG	10.33	124.13	113.80
6	W	534	SER	N-CA-C	10.33	132.81	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	O	147	ARG	NE-CZ-NH1	-10.33	111.17	121.50
6	P	100	LYS	N-CA-C	10.33	125.53	111.90
6	P	297	ALA	CA-C-O	10.33	135.28	120.51
6	W	300	LYS	CD-CE-NZ	-10.33	78.86	111.90
6	J	111	PHE	N-CA-C	10.32	122.61	111.36
6	P	135	VAL	N-CA-C	10.32	121.97	108.35
5	G	220	ASP	CA-CB-CG	10.32	122.92	112.60
6	K	300	LYS	CD-CE-NZ	-10.32	78.89	111.90
6	Q	534	SER	N-CA-C	10.32	132.78	110.80
1	A	1189	ASN	CA-CB-CG	10.31	122.92	112.60
1	A	1297	VAL	N-CA-C	10.31	123.23	108.17
6	V	537	SER	N-CA-C	10.31	124.96	112.38
1	A	902	ALA	N-CA-C	10.31	122.51	111.28
3	C	1002	PRO	CB-CA-C	10.30	123.49	110.92
6	O	95	LEU	CA-C-O	-10.31	109.52	120.55
6	O	637	PHE	CA-CB-CG	10.31	124.11	113.80
5	T	198	HIS	ND1-CE1-NE2	10.30	118.70	108.40
4	D	105	ALA	N-CA-C	10.30	132.74	110.80
6	I	111	PHE	N-CA-C	10.30	122.59	111.36
4	D	97	LEU	N-CA-C	10.30	125.42	112.24
5	M	191	LYS	N-CA-C	10.30	123.55	111.71
6	Q	300	LYS	CD-CE-NZ	-10.29	78.99	111.90
6	W	135	VAL	N-CA-C	10.29	121.93	108.35
1	A	952	ARG	NE-CZ-NH2	10.28	128.45	119.20
5	R	270	LEU	N-CA-C	10.27	126.16	109.72
2	B	666	ALA	N-CA-C	10.27	125.37	113.15
5	H	198	HIS	ND1-CE1-NE2	10.27	118.67	108.40
6	O	111	PHE	N-CA-C	10.26	122.55	111.36
6	Q	100	LYS	N-CA-C	10.26	125.45	111.90
6	J	534	SER	N-CA-C	10.26	132.65	110.80
5	M	207	VAL	N-CA-C	10.26	130.68	109.34
2	B	953	GLY	CA-C-O	10.26	136.19	121.52
6	V	100	LYS	N-CA-C	10.26	125.44	111.90
4	D	183	ALA	CA-C-O	-10.25	109.80	121.07
6	X	587	GLY	CA-C-O	10.25	138.40	120.57
5	G	198	HIS	ND1-CE1-NE2	10.25	118.65	108.40
6	O	456	ASN	CB-CG-ND2	10.25	131.77	116.40
4	D	39	SER	CA-CB-OG	-10.24	90.61	111.10
5	F	80	ARG	O-C-N	10.24	132.62	122.07
6	Q	154	ARG	N-CA-C	10.24	125.04	112.54
6	K	111	PHE	N-CA-C	10.23	122.52	111.36
5	L	198	HIS	ND1-CE1-NE2	10.23	118.63	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	L	245	LEU	N-CA-C	10.23	125.46	111.54
6	Q	66	ASP	CA-CB-CG	10.23	122.83	112.60
6	Q	155	ASP	CA-CB-CG	10.23	122.83	112.60
6	X	416	ARG	NE-CZ-NH2	10.22	128.40	119.20
2	B	630	LEU	N-CA-C	10.22	123.46	111.71
1	A	396	ARG	NE-CZ-NH1	-10.21	111.29	121.50
5	T	207	VAL	N-CA-C	10.21	130.58	109.34
6	J	32	PRO	N-CA-CB	10.21	113.97	103.25
6	P	222	ASN	CA-CB-CG	10.20	122.80	112.60
6	Q	135	VAL	N-CA-C	10.20	121.82	108.35
4	E	339	LEU	N-CA-CB	-10.19	93.47	110.39
3	C	193	LEU	N-CA-C	10.19	125.10	112.87
6	O	135	VAL	N-CA-C	10.19	121.80	108.35
2	B	795	ASP	CA-CB-CG	10.18	122.78	112.60
4	E	393	ASP	CA-CB-CG	10.18	122.78	112.60
5	G	191	LYS	N-CA-C	10.18	123.42	111.71
2	B	379	GLY	CA-C-N	10.18	139.08	122.29
2	B	379	GLY	C-N-CA	10.18	139.08	122.29
3	C	584	LYS	N-CA-C	10.17	123.31	111.11
4	D	388	PRO	O-C-N	10.17	137.01	122.78
5	Y	207	VAL	N-CA-C	10.16	130.47	109.34
5	Y	157	HIS	N-CA-C	10.16	126.67	108.69
6	K	155	ASP	CA-CB-CG	10.15	122.75	112.60
3	C	376	LEU	CD1-CG-CD2	-10.14	88.48	110.80
3	C	841	PHE	N-CA-C	10.13	122.41	111.36
6	W	32	PRO	N-CA-CB	10.13	113.89	103.25
5	L	220	ASP	CA-CB-CG	10.13	122.73	112.60
6	P	342	ASN	CA-CB-CG	10.13	122.73	112.60
3	C	1010	ASN	CA-CB-CG	10.12	122.72	112.60
6	P	534	SER	N-CA-C	10.12	132.35	110.80
1	A	367	PRO	CA-C-N	10.12	130.86	120.14
1	A	367	PRO	C-N-CA	10.12	130.86	120.14
3	C	949	HIS	ND1-CE1-NE2	10.12	118.52	108.40
6	X	222	ASN	CA-CB-CG	10.11	122.70	112.60
6	W	100	LYS	N-CA-C	10.10	125.24	111.90
6	P	32	PRO	N-CA-CB	10.10	113.86	103.25
6	V	297	ALA	CA-C-O	10.10	134.95	120.51
6	W	458	THR	CB-CA-C	-10.09	90.34	110.42
5	F	219	HIS	ND1-CE1-NE2	10.09	118.49	108.40
6	K	534	SER	N-CA-C	10.09	132.29	110.80
5	R	191	LYS	N-CA-C	10.08	123.31	111.71
6	J	297	ALA	CA-C-O	10.08	134.92	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	S	219	HIS	ND1-CE1-NE2	10.08	118.48	108.40
2	B	418	GLN	OE1-CD-NE2	-10.07	112.53	122.60
6	X	155	ASP	CA-CB-CG	10.07	122.67	112.60
5	H	207	VAL	N-CA-C	10.06	130.28	109.34
5	N	80	ARG	O-C-N	10.06	132.44	122.07
5	G	4	HIS	CE1-NE2-CD2	-10.06	98.94	109.00
6	P	625	ARG	NE-CZ-NH1	-10.06	111.44	121.50
5	R	207	VAL	N-CA-C	10.05	130.25	109.34
2	B	437	ARG	CG-CD-NE	10.05	134.11	112.00
1	A	1177	ASN	CA-C-O	-10.05	111.27	119.71
6	P	155	ASP	CA-CB-CG	10.05	122.65	112.60
5	G	207	VAL	N-CA-C	10.04	130.23	109.34
5	T	220	ASP	CA-CB-CG	10.04	122.64	112.60
6	U	456	ASN	CB-CG-ND2	10.04	131.47	116.40
6	Q	459	LEU	O-C-N	10.04	135.53	121.97
4	E	244	ASP	CA-CB-CG	10.04	122.64	112.60
6	I	456	ASN	CB-CG-ND2	10.04	131.46	116.40
3	C	544	VAL	N-CA-C	10.04	124.31	108.85
6	J	155	ASP	CA-CB-CG	10.04	122.64	112.60
3	C	726	ARG	NE-CZ-NH1	-10.03	111.47	121.50
5	L	207	VAL	N-CA-C	10.03	130.21	109.34
4	D	393	ASP	CA-CB-CG	10.03	122.63	112.60
5	F	270	LEU	N-CA-C	10.03	125.76	109.72
3	C	822	MET	N-CA-C	10.03	123.24	111.71
6	Q	222	ASN	CA-CB-CG	10.02	122.62	112.60
2	B	591	ASN	CA-CB-CG	10.02	122.62	112.60
1	A	754	PRO	N-CA-CB	10.02	109.94	103.23
6	W	513	HIS	ND1-CE1-NE2	10.01	118.41	108.40
5	N	4	HIS	CA-CB-CG	-10.01	103.79	113.80
3	C	473	VAL	N-CA-C	10.01	119.94	110.53
6	P	54	SER	N-CA-CB	-10.01	93.58	110.49
5	M	157	HIS	N-CA-C	10.01	126.40	108.69
6	W	66	ASP	CA-CB-CG	10.00	122.60	112.60
6	X	418	ASN	CA-CB-CG	9.99	122.59	112.60
6	P	412	ARG	NH1-CZ-NH2	-9.98	106.32	119.30
1	A	1077	ASN	OD1-CG-ND2	-9.98	112.62	122.60
4	E	281	VAL	N-CA-C	9.98	120.00	110.42
5	L	80	ARG	O-C-N	9.98	132.35	122.07
5	Y	270	LEU	N-CA-C	9.97	125.68	109.72
6	U	100	LYS	N-CA-C	9.97	125.06	111.90
4	E	187	GLN	CA-C-N	9.97	134.00	120.54
4	E	187	GLN	C-N-CA	9.97	134.00	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	391	VAL	O-C-N	-9.96	113.69	121.46
6	J	416	ARG	NE-CZ-NH2	9.96	128.16	119.20
6	J	625	ARG	NE-CZ-NH1	-9.96	111.54	121.50
5	T	92	ALA	N-CA-C	9.96	123.19	110.24
6	K	147	ARG	NE-CZ-NH1	-9.96	111.54	121.50
1	A	899	ILE	N-CA-C	9.95	121.96	110.62
3	C	957	ILE	N-CA-C	9.95	120.81	110.36
3	C	631	ILE	CA-C-O	9.95	133.00	120.76
5	N	245	LEU	N-CA-C	9.94	125.06	111.54
5	T	80	ARG	O-C-N	9.94	132.31	122.07
6	X	95	LEU	CA-C-O	-9.94	109.92	120.55
5	G	4	HIS	CA-CB-CG	-9.93	103.87	113.80
6	K	100	LYS	N-CA-C	9.93	125.01	111.90
5	H	169	ASN	N-CA-C	9.92	126.34	114.04
5	S	4	HIS	CE1-NE2-CD2	-9.92	99.08	109.00
5	F	191	LYS	N-CA-C	9.92	123.33	111.82
6	K	162	HIS	CA-CB-CG	-9.92	103.88	113.80
4	D	25	ASP	CA-CB-CG	9.92	122.52	112.60
6	Q	458	THR	CB-CA-C	-9.92	90.68	110.42
3	C	315	SER	CA-C-N	9.92	136.10	121.72
3	C	315	SER	C-N-CA	9.92	136.10	121.72
6	J	162	HIS	ND1-CE1-NE2	9.92	118.32	108.40
5	G	80	ARG	O-C-N	9.91	132.28	122.07
1	A	528	ALA	N-CA-C	9.91	125.88	112.90
6	U	162	HIS	ND1-CE1-NE2	9.91	118.31	108.40
6	I	95	LEU	O-C-N	9.91	134.16	122.17
6	I	222	ASN	CA-CB-CG	9.90	122.50	112.60
6	W	95	LEU	CA-C-O	-9.90	109.96	120.55
6	I	342	ASN	CA-CB-CG	9.90	122.50	112.60
6	P	637	PHE	CA-CB-CG	9.90	123.70	113.80
5	L	157	HIS	N-CA-C	9.89	126.20	108.69
6	U	342	ASN	CA-CB-CG	9.89	122.49	112.60
3	C	1199	PHE	CA-CB-CG	9.89	123.69	113.80
1	A	705	THR	N-CA-C	9.88	123.85	111.69
3	C	85	ASP	CA-CB-CG	9.87	122.47	112.60
5	H	219	HIS	ND1-CE1-NE2	9.87	118.27	108.40
6	K	162	HIS	ND1-CE1-NE2	9.87	118.27	108.40
5	S	207	VAL	N-CA-C	9.86	129.85	109.34
5	M	270	LEU	N-CA-C	9.86	125.49	109.72
3	C	315	SER	N-CA-C	-9.86	94.86	110.14
1	A	601	ALA	N-CA-C	9.85	121.61	111.07
1	A	621	ASN	N-CA-C	9.84	121.70	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	Y	92	ALA	N-CA-C	9.84	123.73	110.35
5	N	207	VAL	N-CA-C	9.83	129.79	109.34
6	V	111	PHE	N-CA-C	9.83	122.08	111.36
6	W	369	SER	N-CA-C	9.82	125.37	107.99
2	B	1074	VAL	N-CA-C	9.82	123.05	107.73
6	K	95	LEU	CA-C-O	-9.82	110.05	120.55
4	D	251	ASN	CB-CG-ND2	-9.81	101.68	116.40
5	H	92	ALA	N-CA-C	9.81	123.70	110.35
6	J	342	ASN	CA-CB-CG	9.81	122.41	112.60
2	B	523	ASN	OD1-CG-ND2	-9.80	112.80	122.60
1	A	121	ALA	N-CA-C	9.80	121.56	111.07
6	U	121	ALA	N-CA-C	9.80	122.87	111.11
5	F	157	HIS	N-CA-C	9.80	126.04	108.69
6	V	95	LEU	CA-C-O	-9.80	110.06	120.55
6	K	66	ASP	CA-CB-CG	9.80	122.40	112.60
6	O	100	LYS	N-CA-C	9.80	124.83	111.90
6	P	421	HIS	CA-C-O	-9.79	109.53	120.70
6	J	298	PHE	CD1-CE1-CZ	-9.79	102.38	120.00
6	W	439	GLY	O-C-N	9.79	130.71	123.27
6	Q	342	ASN	CA-CB-CG	9.79	122.39	112.60
5	G	92	ALA	N-CA-C	9.78	123.65	110.35
5	T	147	HIS	CE1-NE2-CD2	-9.78	99.22	109.00
3	C	271	VAL	N-CA-C	9.78	120.59	110.62
1	A	1037	VAL	CA-C-O	9.77	130.99	120.53
5	R	245	LEU	N-CA-C	9.77	124.83	111.54
4	D	64	ARG	NE-CZ-NH2	-9.77	110.41	119.20
5	L	169	ASN	N-CA-C	9.77	126.16	114.04
6	P	562	TYR	CB-CG-CD1	-9.77	106.15	120.80
5	S	270	LEU	N-CA-C	9.77	125.35	109.72
6	O	95	LEU	O-C-N	9.77	133.99	122.17
4	D	225	ARG	NE-CZ-NH2	9.76	127.99	119.20
4	D	390	ASN	CA-CB-CG	-9.76	102.84	112.60
6	X	100	LYS	N-CA-C	9.76	124.79	111.90
1	A	33	ARG	N-CA-C	9.76	121.92	111.28
5	Y	219	HIS	ND1-CE1-NE2	9.76	118.16	108.40
6	K	458	THR	CB-CA-C	-9.76	91.00	110.42
5	T	157	HIS	N-CA-C	9.76	125.96	108.69
1	A	833	ASP	CA-CB-CG	9.76	122.36	112.60
6	J	416	ARG	N-CA-C	-9.75	90.96	108.02
5	G	245	LEU	N-CA-C	9.75	124.80	111.54
6	J	222	ASN	CA-CB-CG	9.75	122.35	112.60
4	D	244	ASP	CA-CB-CG	9.74	122.34	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	M	245	LEU	N-CA-C	9.74	124.89	111.74
5	S	157	HIS	N-CA-C	9.74	125.94	108.69
6	V	416	ARG	N-CA-C	-9.74	90.97	108.02
6	Q	637	PHE	CA-CB-CG	9.74	123.54	113.80
6	O	439	GLY	O-C-N	9.74	130.67	123.27
6	V	416	ARG	NE-CZ-NH2	9.74	127.96	119.20
5	H	157	HIS	N-CA-C	9.73	125.92	108.69
5	H	245	LEU	N-CA-C	9.73	124.78	111.54
2	B	1205	ASP	CA-CB-CG	9.73	122.33	112.60
4	E	112	TRP	CA-C-O	9.72	130.54	120.24
1	A	678	LEU	N-CA-C	9.72	123.09	111.33
6	I	121	ALA	N-CA-C	9.72	122.77	111.11
6	K	421	HIS	CA-C-O	-9.72	109.62	120.70
5	N	157	HIS	N-CA-C	9.72	125.89	108.69
6	Q	147	ARG	CB-CG-CD	-9.71	88.96	111.30
5	S	169	ASN	N-CA-C	9.71	126.08	114.04
6	O	421	HIS	CA-C-O	-9.70	109.64	120.70
1	A	430	HIS	N-CA-C	9.70	122.75	111.11
6	I	95	LEU	CA-C-O	-9.69	110.18	120.55
6	P	298	PHE	CD1-CE1-CZ	-9.69	102.56	120.00
3	C	903	HIS	N-CA-C	9.68	121.84	111.28
5	N	270	LEU	N-CA-C	9.68	125.21	109.72
6	V	222	ASN	CA-CB-CG	9.68	122.28	112.60
5	G	169	ASN	N-CA-C	9.68	126.05	114.04
3	C	625	PHE	CA-CB-CG	9.68	123.48	113.80
4	E	131	ASN	CA-CB-CG	9.68	122.28	112.60
5	G	157	HIS	N-CA-C	9.68	125.82	108.69
6	P	416	ARG	NE-CZ-NH2	9.68	127.91	119.20
5	S	4	HIS	CA-CB-CG	-9.68	104.12	113.80
6	Q	95	LEU	CA-C-O	-9.68	110.20	120.55
2	B	496	ALA	N-CA-C	9.67	123.03	111.33
6	K	222	ASN	CA-CB-CG	9.67	122.27	112.60
6	Q	369	SER	N-CA-C	9.67	125.10	107.99
1	A	1206	TYR	N-CA-C	9.67	124.28	108.52
2	B	562	SER	N-CA-C	9.66	124.17	112.38
4	E	35	ARG	NE-CZ-NH2	9.66	127.90	119.20
4	E	411	PHE	N-CA-C	9.66	123.03	111.33
6	U	222	ASN	CA-CB-CG	9.66	122.26	112.60
6	I	421	HIS	CA-C-O	-9.66	109.69	120.70
3	C	131	ALA	N-CA-C	9.65	123.01	111.33
6	O	513	HIS	ND1-CE1-NE2	9.65	118.05	108.40
6	W	222	ASN	CA-CB-CG	9.65	122.25	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	490	PRO	O-C-N	9.65	133.34	122.24
6	K	637	PHE	CA-CB-CG	9.65	123.45	113.80
6	U	147	ARG	NE-CZ-NH1	-9.65	111.85	121.50
1	A	911	ILE	CA-C-O	-9.64	111.02	121.05
6	X	421	HIS	CA-C-O	-9.64	109.70	120.70
5	F	169	ASN	N-CA-C	9.64	126.00	114.04
6	K	369	SER	N-CA-C	9.64	125.06	107.99
6	V	147	ARG	NE-CZ-NH1	-9.64	111.86	121.50
5	T	270	LEU	N-CA-C	9.64	125.14	109.72
6	O	518	ALA	N-CA-C	9.64	122.99	111.33
6	P	369	SER	N-CA-C	9.64	125.05	107.99
6	Q	162	HIS	CA-CB-CG	-9.64	104.16	113.80
5	T	169	ASN	N-CA-C	9.64	125.99	114.04
6	U	169	MET	N-CA-C	9.64	124.87	112.34
5	F	147	HIS	CE1-NE2-CD2	-9.64	99.36	109.00
4	E	43	HIS	CB-CG-CD2	-9.63	118.68	131.20
6	V	625	ARG	NE-CZ-NH1	-9.63	111.87	121.50
3	C	375	ASN	N-CA-C	9.63	121.86	111.36
6	I	182	ASN	OD1-CG-ND2	-9.63	112.97	122.60
5	R	80	ARG	O-C-N	9.63	131.99	122.07
6	V	95	LEU	O-C-N	9.63	133.82	122.17
6	K	416	ARG	NE-CZ-NH2	9.62	127.86	119.20
5	H	270	LEU	N-CA-C	9.62	125.11	109.72
5	R	169	ASN	N-CA-C	9.62	125.97	114.04
6	V	298	PHE	CD1-CE1-CZ	-9.62	102.69	120.00
4	D	338	HIS	CA-CB-CG	-9.61	104.19	113.80
5	M	92	ALA	N-CA-C	9.61	123.42	110.35
6	U	162	HIS	CA-CB-CG	-9.61	104.19	113.80
4	D	44	LEU	N-CA-C	9.60	121.34	111.07
6	P	182	ASN	OD1-CG-ND2	-9.60	113.00	122.60
5	N	191	LYS	N-CA-C	9.60	122.75	111.71
5	Y	245	LEU	N-CA-C	9.60	124.70	111.74
1	A	775	ARG	N-CA-C	9.60	121.82	111.36
3	C	340	LEU	N-CA-C	9.60	121.74	111.28
6	X	518	ALA	N-CA-C	9.59	122.94	111.33
5	H	191	LYS	N-CA-C	9.59	122.74	111.71
5	N	169	ASN	N-CA-C	9.59	125.94	114.04
6	V	458	THR	CB-CA-C	-9.59	91.34	110.42
5	G	219	HIS	ND1-CE1-NE2	9.58	117.98	108.40
5	T	219	HIS	ND1-CE1-NE2	9.58	117.98	108.40
2	B	620	VAL	N-CA-C	9.58	120.43	111.91
3	C	154	ASN	CA-CB-CG	9.58	122.18	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	716	ASN	CA-CB-CG	9.58	122.18	112.60
6	O	121	ALA	N-CA-C	9.58	122.60	111.11
2	B	817	ALA	N-CA-C	9.57	122.91	111.33
6	V	562	TYR	CB-CG-CD1	-9.56	106.45	120.80
1	A	959	ASN	CA-CB-CG	9.56	122.16	112.60
6	O	412	ARG	CB-CG-CD	9.56	133.29	111.30
6	V	412	ARG	NH1-CZ-NH2	-9.55	106.88	119.30
4	D	69	ASN	CA-CB-CG	9.55	122.15	112.60
6	I	637	PHE	CA-CB-CG	9.55	123.35	113.80
6	I	619	ASP	CB-CA-C	-9.55	92.96	110.63
3	C	296	ASN	CA-CB-CG	9.55	122.15	112.60
6	J	637	PHE	CA-CB-CG	9.55	123.35	113.80
6	O	162	HIS	CA-CB-CG	-9.55	104.25	113.80
4	D	338	HIS	ND1-CE1-NE2	9.54	117.94	108.40
6	U	95	LEU	CA-C-O	-9.54	110.34	120.55
6	V	369	SER	N-CA-C	9.54	124.88	107.99
5	L	213	THR	N-CA-C	9.54	123.96	111.75
1	A	1228	ARG	NE-CZ-NH1	-9.53	111.97	121.50
6	O	342	ASN	CA-CB-CG	9.53	122.13	112.60
6	O	416	ARG	NE-CZ-NH2	9.52	127.77	119.20
6	W	342	ASN	CA-CB-CG	9.52	122.12	112.60
6	X	95	LEU	O-C-N	9.52	133.69	122.17
5	F	213	THR	N-CA-C	9.52	123.94	111.75
6	P	49	ARG	NE-CZ-NH2	9.52	127.77	119.20
1	A	677	ALA	N-CA-C	9.52	121.73	111.36
6	O	369	SER	N-CA-C	9.51	124.83	107.99
6	W	162	HIS	ND1-CE1-NE2	9.51	117.91	108.40
1	A	496	PHE	N-CA-C	9.50	122.51	111.11
6	U	95	LEU	O-C-N	9.50	133.67	122.17
6	O	619	ASP	CB-CA-C	-9.50	93.06	110.63
6	P	458	THR	CB-CA-C	-9.50	91.52	110.42
6	Q	243	ASN	CA-CB-CG	9.50	122.10	112.60
6	J	369	SER	N-CA-C	9.49	124.79	107.99
5	Y	169	ASN	N-CA-C	9.49	125.81	114.04
6	I	169	MET	N-CA-C	9.48	124.67	112.34
6	W	243	ASN	CA-CB-CG	9.48	122.08	112.60
6	J	439	GLY	O-C-N	9.48	130.47	123.27
6	I	369	SER	N-CA-C	9.48	124.77	107.99
5	S	245	LEU	N-CA-C	9.48	124.53	111.74
6	W	416	ARG	NE-CZ-NH2	9.48	127.73	119.20
1	A	83	ASP	N-CA-C	9.47	121.69	111.36
6	Q	154	ARG	NE-CZ-NH2	9.47	127.73	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	W	625	ARG	NE-CZ-NH1	-9.47	112.03	121.50
6	P	95	LEU	CA-C-O	-9.47	110.42	120.55
5	L	270	LEU	N-CA-C	9.46	124.86	109.72
5	M	80	ARG	O-C-N	9.46	131.82	122.07
5	M	169	ASN	N-CA-C	9.46	125.77	114.04
6	O	222	ASN	CA-CB-CG	9.46	122.06	112.60
6	J	162	HIS	CA-CB-CG	-9.46	104.34	113.80
1	A	590	THR	N-CA-C	9.46	124.64	112.34
3	C	1025	ASN	OD1-CG-ND2	-9.46	113.14	122.60
6	I	243	ASN	CA-CB-CG	9.46	122.06	112.60
3	C	1059	PHE	O-C-N	9.46	132.14	122.12
6	J	562	TYR	CB-CG-CD1	-9.46	106.61	120.80
6	K	95	LEU	O-C-N	9.46	133.61	122.17
5	Y	30	THR	N-CA-C	9.46	122.59	111.71
6	I	147	ARG	CG-CD-NE	9.46	132.80	112.00
6	J	458	THR	CB-CA-C	-9.46	91.60	110.42
1	A	793	THR	CA-C-N	9.45	126.46	119.66
1	A	793	THR	C-N-CA	9.45	126.46	119.66
5	N	92	ALA	N-CA-C	9.45	123.20	110.35
5	F	245	LEU	N-CA-C	9.44	124.49	111.74
5	R	213	THR	N-CA-C	9.44	123.83	111.75
5	G	270	LEU	N-CA-C	9.44	124.82	109.72
5	R	157	HIS	N-CA-C	9.44	125.40	108.69
6	U	472	ARG	N-CA-C	9.44	122.74	109.15
5	G	234	ARG	N-CA-C	9.43	122.56	111.71
1	A	22	PHE	CA-CB-CG	9.43	123.23	113.80
3	C	578	ASP	CA-CB-CG	9.43	122.03	112.60
2	B	368	ILE	O-C-N	9.42	132.17	123.03
1	A	662	ARG	NE-CZ-NH2	9.42	127.68	119.20
4	D	175	MET	N-CA-C	9.42	122.54	111.71
5	L	92	ALA	N-CA-C	9.42	123.16	110.35
6	J	147	ARG	NE-CZ-NH1	-9.41	112.08	121.50
6	U	513	HIS	ND1-CE1-NE2	9.41	117.81	108.40
6	Q	625	ARG	NE-CZ-NH1	-9.41	112.09	121.50
6	X	342	ASN	CA-CB-CG	9.41	122.01	112.60
5	M	77	GLU	CA-C-O	-9.40	111.12	121.00
5	M	147	HIS	CE1-NE2-CD2	-9.40	99.60	109.00
6	P	41	LEU	N-CA-C	9.40	122.52	111.71
6	O	472	ARG	N-CA-C	9.40	122.69	109.15
6	X	162	HIS	CA-CB-CG	-9.40	104.40	113.80
5	N	219	HIS	ND1-CE1-NE2	9.40	117.80	108.40
6	J	421	HIS	CA-C-O	-9.39	109.99	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	518	ALA	N-CA-C	9.39	122.70	111.33
6	P	95	LEU	O-C-N	9.39	133.53	122.17
4	E	291	THR	CA-CB-OG1	9.39	123.68	109.60
6	O	162	HIS	ND1-CE1-NE2	9.39	117.79	108.40
6	J	95	LEU	CA-C-O	-9.39	110.51	120.55
3	C	1044	ASP	CA-CB-CG	9.38	121.98	112.60
4	D	268	ARG	NE-CZ-NH2	-9.38	110.75	119.20
4	D	35	ARG	N-CA-C	9.38	122.99	109.48
6	Q	148	THR	CA-CB-OG1	9.38	123.67	109.60
5	R	77	GLU	CA-C-O	-9.38	111.15	121.00
5	F	77	GLU	CA-C-O	-9.37	111.16	121.00
2	B	1092	ILE	N-CA-C	9.37	124.14	108.86
6	K	513	HIS	ND1-CE1-NE2	9.37	117.77	108.40
6	O	458	THR	CB-CA-C	-9.37	91.77	110.42
4	E	387	GLN	O-C-N	9.37	130.65	121.28
5	G	30	THR	N-CA-C	9.37	122.48	111.71
6	K	148	THR	CA-CB-OG1	9.37	123.65	109.60
5	Y	4	HIS	CB-CG-CD2	-9.37	119.02	131.20
3	C	798	VAL	CA-CB-CG1	-9.37	94.48	110.40
5	G	29	ARG	NE-CZ-NH1	-9.36	112.14	121.50
6	U	421	HIS	CA-C-O	-9.36	110.03	120.70
4	D	285	LEU	N-CA-C	9.36	122.68	111.82
1	A	1173	TYR	CA-CB-CG	9.36	130.75	113.90
6	I	148	THR	CA-CB-OG1	9.36	123.64	109.60
6	U	243	ASN	CA-CB-CG	9.36	121.96	112.60
6	U	619	ASP	CB-CA-C	-9.36	93.32	110.63
5	L	30	THR	N-CA-C	9.36	122.47	111.71
6	P	148	THR	CA-CB-OG1	9.36	123.63	109.60
6	P	243	ASN	CA-CB-CG	9.36	121.96	112.60
6	U	125	ASP	N-CA-C	9.36	121.48	111.28
5	S	80	ARG	O-C-N	9.35	131.70	122.07
5	T	191	LYS	N-CA-C	9.35	122.67	111.82
3	C	1134	HIS	CA-CB-CG	9.35	123.15	113.80
6	P	518	ALA	N-CA-C	9.35	122.64	111.33
6	X	243	ASN	CA-CB-CG	9.35	121.95	112.60
6	K	125	ASP	N-CA-C	9.34	121.46	111.28
6	P	125	ASP	N-CA-C	9.33	121.45	111.28
2	B	862	GLU	N-CA-C	9.33	121.45	111.28
5	T	245	LEU	N-CA-C	9.32	124.33	111.74
2	B	410	HIS	ND1-CE1-NE2	9.32	117.72	108.40
6	K	243	ASN	CA-CB-CG	9.32	121.92	112.60
2	B	1174	ASP	CA-CB-CG	9.31	121.91	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	R	29	ARG	NE-CZ-NH1	-9.31	112.19	121.50
6	V	162	HIS	ND1-CE1-NE2	9.31	117.71	108.40
6	W	421	HIS	CA-C-O	-9.31	110.09	120.70
5	L	59	HIS	N-CA-C	9.30	121.42	111.28
6	U	148	THR	CA-CB-OG1	9.30	123.56	109.60
5	R	30	THR	N-CA-C	9.30	122.41	111.71
1	A	643	HIS	CE1-NE2-CD2	-9.30	99.70	109.00
6	I	458	THR	CB-CA-C	-9.30	91.92	110.42
5	F	29	ARG	NE-CZ-NH1	-9.30	112.20	121.50
6	J	414	GLN	CG-CD-OE1	9.30	139.40	120.80
6	K	518	ALA	N-CA-C	9.29	122.58	111.33
6	J	148	THR	CA-CB-OG1	9.29	123.54	109.60
6	U	458	THR	CB-CA-C	-9.29	91.93	110.42
4	D	184	HIS	CG-CD2-NE2	9.29	116.49	107.20
5	G	24	LEU	N-CA-CB	-9.28	98.76	110.45
6	K	159	TRP	CA-CB-CG	9.28	131.23	113.60
6	Q	416	ARG	NE-CZ-NH2	9.28	127.55	119.20
5	S	77	GLU	CA-C-O	-9.28	111.26	121.00
6	V	162	HIS	CA-CB-CG	-9.28	104.52	113.80
6	W	148	THR	CA-CB-OG1	9.28	123.52	109.60
4	E	251	ASN	CA-CB-CG	9.28	121.88	112.60
6	K	342	ASN	CA-CB-CG	9.28	121.88	112.60
6	V	421	HIS	CA-C-O	-9.28	110.13	120.70
2	B	242	ARG	N-CA-C	9.27	124.00	109.81
6	W	162	HIS	CA-CB-CG	-9.27	104.53	113.80
6	W	182	ASN	OD1-CG-ND2	-9.27	113.33	122.60
4	D	187	GLN	CG-CD-OE1	-9.26	102.27	120.80
6	I	619	ASP	CA-CB-CG	9.26	121.86	112.60
5	M	29	ARG	NE-CZ-NH1	-9.26	112.24	121.50
3	C	871	VAL	N-CA-C	9.26	120.06	110.62
1	A	158	TRP	N-CA-C	9.26	123.83	112.54
2	B	564	TRP	CE2-CD2-CE3	9.26	128.06	118.80
6	V	513	HIS	ND1-CE1-NE2	9.26	117.66	108.40
4	E	338	HIS	CB-CG-CD2	-9.25	119.17	131.20
5	R	92	ALA	N-CA-C	9.25	122.93	110.35
6	J	142	ILE	CA-C-O	-9.25	111.33	120.95
6	W	472	ARG	N-CA-C	9.25	122.47	109.15
2	B	712	VAL	CA-CB-CG1	9.25	126.12	110.40
6	U	369	SER	N-CA-C	9.25	124.36	107.99
6	X	369	SER	N-CA-C	9.25	124.36	107.99
6	U	439	GLY	O-C-N	9.24	130.29	123.27
6	P	55	VAL	CA-CB-CG2	9.24	126.11	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	162	HIS	ND1-CE1-NE2	9.24	117.64	108.40
2	B	375	ASN	CA-CB-CG	9.24	121.84	112.60
5	Y	80	ARG	O-C-N	9.23	131.58	122.07
5	G	77	GLU	CA-C-O	-9.23	111.31	121.00
6	X	148	THR	CA-CB-OG1	9.23	123.44	109.60
1	A	110	GLN	N-CA-C	9.22	124.67	113.23
4	D	410	MET	N-CA-C	9.22	122.49	111.33
6	U	518	ALA	N-CA-C	9.22	122.49	111.33
6	V	243	ASN	CA-CB-CG	9.22	121.82	112.60
6	X	439	GLY	O-C-N	9.22	130.28	123.27
6	I	416	ARG	N-CA-C	-9.21	91.90	108.02
6	X	159	TRP	CA-CB-CG	9.21	131.11	113.60
6	J	416	ARG	CB-CA-C	9.21	125.57	110.74
4	D	44	LEU	O-C-N	9.21	131.56	122.07
6	O	169	MET	N-CA-C	9.21	124.31	112.34
6	X	578	SER	N-CA-C	9.21	122.30	111.71
6	I	416	ARG	NE-CZ-NH2	9.21	127.49	119.20
6	Q	95	LEU	O-C-N	9.21	133.31	122.17
2	B	699	ASN	CA-CB-CG	9.20	121.80	112.60
2	B	1106	LYS	N-CA-C	9.20	121.31	111.28
6	X	571	ARG	N-CA-C	9.20	122.15	111.11
6	P	472	ARG	N-CA-C	9.20	122.40	109.15
6	W	95	LEU	O-C-N	9.20	133.30	122.17
6	K	410	ASN	N-CA-C	9.19	124.30	113.18
5	H	213	THR	N-CA-C	9.19	123.51	111.75
3	C	864	PHE	CA-CB-CG	9.19	122.99	113.80
6	O	619	ASP	CA-CB-CG	9.19	121.79	112.60
5	S	244	ASN	N-CA-C	9.19	130.37	110.80
6	O	182	ASN	OD1-CG-ND2	-9.19	113.42	122.60
2	B	889	ARG	NE-CZ-NH2	9.18	127.46	119.20
4	E	156	ILE	N-CA-CB	9.18	122.61	111.31
6	J	528	ALA	N-CA-CB	-9.18	94.97	110.49
3	C	357	ALA	N-CA-C	9.18	122.44	111.33
3	C	715	VAL	CB-CA-C	-9.18	96.24	111.29
4	E	222	ARG	NE-CZ-NH2	9.18	127.46	119.20
5	S	213	THR	N-CA-C	9.18	123.50	111.75
6	Q	227	LEU	O-C-N	9.17	128.61	121.27
5	S	92	ALA	N-CA-C	9.17	122.82	110.35
6	W	125	ASP	N-CA-C	9.17	121.27	111.28
6	X	513	HIS	ND1-CE1-NE2	9.16	117.56	108.40
6	J	513	HIS	ND1-CE1-NE2	9.16	117.56	108.40
6	K	439	GLY	O-C-N	9.16	130.23	123.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	T	213	THR	N-CA-C	9.16	123.47	111.75
1	A	1174	VAL	CA-CB-CG1	9.15	125.96	110.40
3	C	1189	THR	O-C-N	9.15	134.12	122.87
6	Q	421	HIS	CA-C-O	-9.15	110.27	120.70
3	C	836	HIS	N-CA-C	9.15	120.94	110.97
6	P	162	HIS	CA-CB-CG	-9.15	104.65	113.80
1	A	643	HIS	ND1-CE1-NE2	9.15	117.55	108.40
5	R	8	GLN	N-CA-C	9.15	122.56	111.40
6	O	243	ASN	CA-CB-CG	9.14	121.74	112.60
2	B	544	VAL	N-CA-C	9.14	121.78	108.53
6	O	159	TRP	CA-CB-CG	9.14	130.97	113.60
6	P	142	ILE	CA-C-O	-9.14	111.45	120.95
6	V	182	ASN	OD1-CG-ND2	-9.14	113.46	122.60
4	E	182	ILE	O-C-N	9.14	130.84	121.89
6	V	148	THR	CA-CB-OG1	9.14	123.30	109.60
3	C	272	HIS	CB-CG-CD2	-9.13	119.33	131.20
5	F	59	HIS	N-CA-C	9.13	121.23	111.28
6	W	168	THR	OG1-CB-CG2	-9.13	91.04	109.30
3	C	1068	LYS	N-CA-C	9.13	122.37	111.33
1	A	324	ILE	CB-CA-C	9.13	119.94	111.00
5	R	147	HIS	CE1-NE2-CD2	-9.12	99.88	109.00
6	Q	472	ARG	N-CA-C	9.12	122.28	109.15
6	W	518	ALA	N-CA-C	9.12	122.36	111.33
6	J	243	ASN	CA-CB-CG	9.11	121.71	112.60
6	Q	162	HIS	ND1-CE1-NE2	9.12	117.52	108.40
3	C	210	ILE	CB-CA-C	9.11	119.73	111.08
5	N	102	HIS	CA-CB-CG	9.11	122.91	113.80
6	V	439	GLY	O-C-N	9.11	130.19	123.27
6	I	513	HIS	ND1-CE1-NE2	9.11	117.50	108.40
5	L	77	GLU	CA-C-O	-9.11	111.44	121.00
1	A	1012	ASP	CA-CB-CG	9.10	121.70	112.60
6	J	182	ASN	OD1-CG-ND2	-9.10	113.50	122.60
6	Q	182	ASN	OD1-CG-ND2	-9.10	113.50	122.60
6	I	518	ALA	N-CA-C	9.10	122.34	111.33
5	M	244	ASN	N-CA-C	9.10	130.18	110.80
6	X	522	GLY	N-CA-C	9.09	124.41	112.77
6	X	588	ILE	N-CA-CB	9.09	123.94	111.21
1	A	954	HIS	CE1-NE2-CD2	-9.09	99.91	109.00
1	A	1212	PRO	N-CA-C	9.09	125.83	111.38
4	D	271	SER	N-CA-C	9.09	122.86	109.04
2	B	1182	ASN	CB-CG-ND2	-9.09	102.77	116.40
4	E	98	SER	N-CA-C	9.09	130.16	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	47	LEU	N-CA-C	9.09	123.41	108.96
4	D	98	SER	N-CA-C	9.09	121.18	111.28
2	B	347	ARG	N-CA-C	9.08	124.15	112.34
2	B	1103	TRP	N-CA-C	9.08	122.01	111.11
6	I	529	SER	N-CA-C	9.08	130.15	110.80
6	J	66	ASP	CA-CB-CG	9.08	121.68	112.60
1	A	1151	ASN	N-CA-C	9.08	123.31	109.23
3	C	31	ASN	CA-CB-CG	9.08	121.68	112.60
3	C	621	TRP	CG-CD2-CE3	-9.08	124.82	133.90
4	E	376	ALA	CA-C-N	9.07	131.43	120.09
4	E	376	ALA	C-N-CA	9.07	131.43	120.09
6	I	162	HIS	CA-CB-CG	-9.07	104.73	113.80
5	T	157	HIS	CB-CG-CD2	-9.07	119.40	131.20
6	W	159	TRP	CA-CB-CG	9.07	130.84	113.60
6	X	242	PHE	N-CA-C	9.07	122.34	111.82
6	I	100	LYS	N-CA-C	9.07	123.87	111.90
5	N	244	ASN	N-CA-C	9.07	130.12	110.80
3	C	316	THR	N-CA-C	9.06	123.12	109.25
6	X	193	ILE	CA-C-O	9.06	126.87	118.90
6	K	461	ASP	N-CA-C	9.06	124.64	108.24
5	S	59	HIS	N-CA-C	9.06	121.15	111.28
6	I	300	LYS	CD-CE-NZ	-9.05	82.94	111.90
6	K	412	ARG	NE-CZ-NH2	-9.05	111.05	119.20
5	F	92	ALA	N-CA-C	9.05	122.66	110.35
5	L	157	HIS	CB-CG-CD2	-9.05	119.44	131.20
6	Q	513	HIS	ND1-CE1-NE2	9.05	117.45	108.40
1	A	1217	ASP	CA-CB-CG	9.05	121.65	112.60
5	N	24	LEU	N-CA-CB	-9.05	99.05	110.45
6	W	522	GLY	N-CA-C	9.04	124.35	112.77
5	G	8	GLN	N-CA-C	9.04	122.43	111.40
6	J	41	LEU	N-CA-C	9.04	122.11	111.71
2	B	1056	VAL	N-CA-C	9.04	119.63	110.23
5	Y	147	HIS	CE1-NE2-CD2	-9.04	99.96	109.00
5	T	30	THR	N-CA-C	9.04	122.10	111.71
1	A	633	ASN	N-CA-C	9.03	123.31	111.75
6	I	577	VAL	N-CA-C	9.04	119.09	110.42
6	O	300	LYS	CD-CE-NZ	-9.04	82.98	111.90
6	P	154	ARG	CA-CB-CG	9.03	132.17	114.10
2	B	536	ALA	N-CA-C	9.03	124.11	113.18
3	C	639	LEU	N-CA-C	9.03	122.10	111.71
5	N	213	THR	N-CA-C	9.03	123.31	111.75
5	R	59	HIS	N-CA-C	9.03	121.12	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	M	4	HIS	CE1-NE2-CD2	-9.03	99.97	109.00
6	U	416	ARG	N-CA-C	-9.03	92.22	108.02
6	U	416	ARG	NE-CZ-NH2	9.03	127.33	119.20
6	V	142	ILE	CA-C-O	-9.03	111.56	120.95
5	R	24	LEU	N-CA-CB	-9.03	99.08	110.45
1	A	768	ASN	CA-CB-CG	9.02	121.62	112.60
6	V	472	ARG	N-CA-C	9.02	122.14	109.15
6	V	518	ALA	N-CA-C	9.02	122.24	111.33
6	X	182	ASN	OD1-CG-ND2	-9.02	113.58	122.60
1	A	926	GLY	CA-C-O	-9.02	112.27	120.75
5	Y	8	GLN	N-CA-C	9.02	122.40	111.40
4	E	341	TRP	N-CA-C	9.02	122.08	111.71
6	K	528	ALA	N-CA-CB	-9.02	95.25	110.49
6	I	125	ASP	N-CA-C	9.01	121.10	111.28
6	I	159	TRP	CA-CB-CG	9.01	130.72	113.60
6	V	342	ASN	CA-CB-CG	9.01	121.61	112.60
4	E	315	LEU	N-CA-C	9.01	122.39	111.40
6	U	529	SER	N-CA-C	9.01	129.98	110.80
6	V	457	PRO	N-CA-CB	9.01	112.71	103.25
3	C	799	ASP	N-CA-CB	-9.00	96.74	109.97
5	F	24	LEU	N-CA-CB	-9.00	99.11	110.45
5	Y	171	HIS	N-CA-C	9.00	129.70	109.81
2	B	306	LEU	N-CA-C	9.00	121.09	111.28
6	O	562	TYR	CB-CG-CD1	-9.00	107.30	120.80
3	C	367	ARG	N-CA-C	9.00	122.06	111.71
4	D	79	PHE	N-CA-C	9.00	122.06	111.71
6	K	123	ALA	O-C-N	9.00	131.45	122.09
5	M	30	THR	N-CA-C	9.00	122.06	111.71
5	M	213	THR	N-CA-C	9.00	123.27	111.75
3	C	568	PHE	CA-CB-CG	8.99	122.79	113.80
2	B	197	ASP	CA-CB-CG	8.99	121.59	112.60
3	C	132	LEU	N-CA-C	8.99	121.90	111.11
6	Q	518	ALA	N-CA-C	8.99	122.21	111.33
5	Y	24	LEU	N-CA-CB	-8.99	99.12	110.45
6	J	95	LEU	O-C-N	8.99	133.05	122.17
5	H	171	HIS	N-CA-C	8.99	129.67	109.81
6	W	513	HIS	CE1-NE2-CD2	-8.99	100.01	109.00
5	H	29	ARG	NE-CZ-NH1	-8.98	112.52	121.50
6	P	414	GLN	CG-CD-OE1	8.98	138.76	120.80
5	S	29	ARG	NE-CZ-NH1	-8.98	112.52	121.50
3	C	1086	HIS	CE1-NE2-CD2	-8.97	100.03	109.00
5	L	29	ARG	NE-CZ-NH1	-8.97	112.53	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	U	159	TRP	CA-CB-CG	8.97	130.65	113.60
3	C	1051	VAL	CA-CB-CG1	8.97	125.65	110.40
6	I	241	ALA	N-CA-C	8.97	122.18	111.33
6	P	159	TRP	CA-CB-CG	8.96	130.62	113.60
5	R	157	HIS	CB-CG-CD2	-8.96	119.55	131.20
2	B	1130	ALA	CA-C-O	-8.96	110.96	121.44
6	K	414	GLN	OE1-CD-NE2	8.96	131.56	122.60
5	Y	213	THR	N-CA-C	8.96	123.21	111.75
4	E	92	TRP	CG-CD2-CE3	-8.95	124.95	133.90
4	D	152	ASP	CB-CG-OD2	-8.95	97.81	118.40
4	E	396	GLN	N-CA-C	8.95	124.43	112.88
5	R	244	ASN	N-CA-C	8.95	129.87	110.80
1	A	877	GLY	CA-C-O	-8.95	116.40	122.22
6	P	13	ILE	N-CA-C	8.95	122.28	111.09
1	A	675	GLN	N-CA-C	8.95	120.72	110.97
1	A	1051	ARG	NE-CZ-NH2	8.95	127.25	119.20
6	O	529	SER	N-CA-C	8.95	129.86	110.80
5	S	24	LEU	N-CA-CB	-8.95	99.17	110.45
5	S	157	HIS	CB-CG-CD2	-8.95	119.57	131.20
6	J	529	SER	N-CA-C	8.95	129.86	110.80
6	V	159	TRP	CA-CB-CG	8.95	130.59	113.60
2	B	1023	ARG	NE-CZ-NH1	-8.94	112.56	121.50
6	I	142	ILE	CA-C-O	-8.94	111.65	120.95
6	I	412	ARG	CB-CG-CD	8.94	131.86	111.30
6	O	125	ASP	N-CA-C	8.94	121.02	111.28
4	D	94	ASP	CA-C-N	8.94	131.01	119.84
4	D	94	ASP	C-N-CA	8.94	131.01	119.84
4	E	408	GLN	O-C-N	8.94	131.38	122.09
5	T	8	GLN	N-CA-C	8.94	122.30	111.40
3	C	366	ASP	O-C-N	8.94	134.47	122.59
6	K	140	VAL	CA-C-O	8.93	130.70	121.41
6	Q	159	TRP	CA-CB-CG	8.93	130.57	113.60
6	O	416	ARG	N-CA-C	-8.93	92.39	108.02
3	C	355	LYS	N-CA-C	8.93	121.01	111.28
6	Q	469	VAL	N-CA-C	8.93	119.73	110.36
6	U	461	ASP	N-CA-C	8.93	124.39	108.24
2	B	204	PHE	CA-CB-CG	8.92	122.72	113.80
2	B	901	ILE	O-C-N	8.92	130.52	121.87
1	A	790	ARG	NE-CZ-NH2	8.92	127.23	119.20
6	J	412	ARG	NH1-CZ-NH2	-8.92	107.71	119.30
6	X	125	ASP	N-CA-C	8.92	121.00	111.28
5	R	149	GLN	OE1-CD-NE2	8.91	131.51	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	K	619	ASP	CB-CA-C	-8.91	94.15	110.63
5	M	250	HIS	CB-CG-CD2	-8.91	119.62	131.20
5	R	250	HIS	CB-CG-CD2	-8.91	119.62	131.20
5	N	59	HIS	N-CA-C	8.91	120.99	111.28
6	J	410	ASN	N-CA-C	8.90	123.95	113.18
6	O	148	THR	CA-CB-OG1	8.90	122.95	109.60
5	H	59	HIS	N-CA-C	8.90	120.98	111.28
1	A	255	ILE	CA-C-O	-8.89	111.51	121.92
1	A	40	HIS	CB-CG-CD2	-8.89	119.64	131.20
2	B	964	VAL	O-C-N	8.89	130.49	121.87
4	E	337	ARG	NE-CZ-NH1	-8.89	112.61	121.50
2	B	296	ASN	CA-CB-CG	8.89	121.49	112.60
4	E	97	LEU	N-CA-C	8.89	129.73	110.80
4	E	356	ASN	N-CA-C	8.88	120.58	111.07
5	T	77	GLU	CA-C-O	-8.88	111.67	121.00
6	W	121	ALA	N-CA-C	8.88	121.77	111.11
1	A	821	GLU	N-CA-C	8.88	123.72	111.55
3	C	375	ASN	CA-C-N	8.88	138.50	121.54
3	C	375	ASN	C-N-CA	8.88	138.50	121.54
6	J	159	TRP	CA-CB-CG	8.88	130.48	113.60
6	K	625	ARG	NE-CZ-NH1	-8.88	112.62	121.50
5	F	30	THR	N-CA-C	8.88	121.92	111.71
5	L	24	LEU	N-CA-CB	-8.88	99.26	110.45
4	E	368	ARG	N-CA-C	8.88	120.57	111.07
6	V	125	ASP	N-CA-C	8.88	120.96	111.28
5	S	4	HIS	ND1-CE1-NE2	8.88	117.28	108.40
6	U	41	LEU	N-CA-C	8.88	121.92	111.71
6	P	439	GLY	O-C-N	8.87	130.01	123.27
1	A	108	ASN	N-CA-C	8.87	124.34	113.17
5	L	149	GLN	OE1-CD-NE2	8.87	131.47	122.60
6	O	595	GLY	O-C-N	8.87	130.91	122.13
6	O	142	ILE	CA-C-O	-8.87	111.73	120.95
6	O	528	ALA	O-C-N	8.87	134.38	122.59
1	A	167	ASP	N-CA-C	8.86	124.77	112.45
5	G	147	HIS	CE1-NE2-CD2	-8.86	100.14	109.00
5	M	259	HIS	CA-CB-CG	8.86	122.66	113.80
6	U	412	ARG	CB-CG-CD	8.86	131.68	111.30
6	V	66	ASP	CA-CB-CG	8.86	121.46	112.60
5	G	59	HIS	N-CA-C	8.86	120.94	111.28
6	I	41	LEU	N-CA-C	8.86	121.90	111.71
6	P	627	ARG	N-CA-C	8.86	120.93	111.28
4	E	123	ASN	CA-CB-CG	8.86	121.45	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	L	102	HIS	CA-CB-CG	8.86	122.66	113.80
6	V	154	ARG	CA-CB-CG	8.86	131.81	114.10
6	K	472	ARG	N-CA-C	8.85	121.90	109.15
5	Y	244	ASN	N-CA-C	8.85	129.66	110.80
2	B	757	VAL	N-CA-C	8.85	120.71	110.62
6	I	562	TYR	CB-CG-CD1	-8.85	107.52	120.80
6	K	529	SER	N-CA-C	8.85	129.66	110.80
6	U	82	PHE	N-CA-C	8.85	122.04	111.33
6	W	122	THR	CA-C-O	-8.85	111.16	121.16
3	C	190	GLY	CA-C-N	8.85	129.19	119.90
3	C	190	GLY	C-N-CA	8.85	129.19	119.90
6	V	241	ALA	N-CA-C	8.85	122.03	111.33
5	N	8	GLN	N-CA-C	8.84	122.19	111.40
6	P	416	ARG	CB-CA-C	8.84	124.98	110.74
2	B	802	ALA	N-CA-C	8.84	124.25	113.38
6	V	461	ASP	N-CA-C	8.84	124.24	108.24
3	C	914	ASP	CA-CB-CG	8.84	121.44	112.60
5	S	147	HIS	CE1-NE2-CD2	-8.84	100.17	109.00
6	V	82	PHE	N-CA-C	8.84	122.02	111.33
6	V	522	GLY	N-CA-C	8.84	124.08	112.77
6	U	300	LYS	CD-CE-NZ	-8.83	83.63	111.90
1	A	815	TYR	N-CA-C	8.83	120.91	111.28
6	K	168	THR	OG1-CB-CG2	-8.83	91.64	109.30
6	K	182	ASN	OD1-CG-ND2	-8.83	113.77	122.60
5	M	24	LEU	N-CA-CB	-8.83	99.32	110.45
5	M	102	HIS	CA-CB-CG	8.83	122.63	113.80
5	M	157	HIS	CB-CG-CD2	-8.83	119.72	131.20
6	P	529	SER	N-CA-C	8.83	129.61	110.80
4	D	372	ALA	N-CA-C	8.83	120.90	111.28
4	E	191	ARG	NE-CZ-NH1	-8.83	112.67	121.50
6	W	619	ASP	CB-CA-C	-8.83	94.30	110.63
5	T	244	ASN	N-CA-C	8.82	129.60	110.80
6	O	140	VAL	CA-C-O	8.82	130.58	121.41
6	I	625	ARG	NE-CZ-NH1	-8.82	112.68	121.50
5	M	8	GLN	N-CA-C	8.82	122.16	111.40
5	Y	157	HIS	CB-CG-CD2	-8.82	119.74	131.20
3	C	992	ASN	CA-CB-CG	8.81	121.42	112.60
5	F	244	ASN	N-CA-C	8.81	129.56	110.80
5	N	11	HIS	CB-CG-CD2	-8.81	119.75	131.20
5	N	30	THR	N-CA-C	8.81	121.84	111.71
5	N	29	ARG	NE-CZ-NH1	-8.81	112.69	121.50
5	F	102	HIS	CA-CB-CG	8.80	122.60	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	Q	522	GLY	N-CA-C	8.80	124.04	112.77
6	W	528	ALA	N-CA-CB	-8.80	95.61	110.49
5	H	11	HIS	CA-C-O	8.80	130.32	120.90
6	Q	619	ASP	CB-CA-C	-8.80	94.35	110.63
5	T	29	ARG	NE-CZ-NH1	-8.80	112.70	121.50
2	B	1062	TYR	N-CA-C	8.79	124.67	112.45
4	E	391	ALA	CA-C-N	8.80	132.07	120.28
4	E	391	ALA	C-N-CA	8.80	132.07	120.28
6	O	410	ASN	N-CA-C	8.79	123.80	112.89
2	B	903	HIS	ND1-CE1-NE2	8.79	117.19	108.40
5	F	250	HIS	CB-CG-CD2	-8.79	119.77	131.20
6	W	410	ASN	N-CA-C	8.79	123.82	113.18
6	W	529	SER	N-CA-C	8.79	129.53	110.80
3	C	489	ASP	CA-CB-CG	8.79	121.39	112.60
6	K	530	ARG	N-CA-CB	8.79	125.34	110.49
5	N	11	HIS	CA-C-O	8.79	130.31	120.90
1	A	229	HIS	CB-CG-ND1	8.78	135.87	122.70
1	A	327	ILE	N-CA-CB	8.78	124.33	111.86
6	K	627	ARG	N-CA-C	8.78	120.85	111.28
1	A	1038	ASN	CA-C-O	-8.78	109.92	120.54
6	I	472	ARG	N-CA-C	8.78	121.79	109.15
6	P	49	ARG	NE-CZ-NH1	-8.78	112.72	121.50
6	V	627	ARG	N-CA-C	8.78	120.85	111.28
2	B	903	HIS	CE1-NE2-CD2	-8.78	100.22	109.00
3	C	1086	HIS	CA-CB-CG	8.78	122.58	113.80
6	Q	461	ASP	N-CA-C	8.78	124.12	108.24
6	U	140	VAL	CA-C-O	8.77	130.53	121.41
6	V	140	VAL	CA-C-O	8.77	130.53	121.41
1	A	127	ASN	CA-CB-CG	8.77	121.37	112.60
3	C	62	ALA	N-CA-C	8.77	129.47	110.80
6	J	122	THR	CA-C-O	-8.77	111.25	121.16
6	P	66	ASP	CA-CB-CG	8.77	121.36	112.60
3	C	703	THR	N-CA-C	8.76	121.93	111.33
5	H	30	THR	N-CA-C	8.76	121.79	111.71
5	H	102	HIS	CA-CB-CG	8.76	122.56	113.80
5	H	157	HIS	CB-CG-CD2	-8.76	119.81	131.20
6	U	577	VAL	N-CA-C	8.76	118.83	110.42
1	A	913	PHE	N-CA-C	8.76	125.82	111.37
6	I	573	ALA	N-CA-C	8.76	121.62	111.11
6	J	79	ARG	N-CA-C	8.76	121.62	111.11
5	S	15	ARG	NE-CZ-NH1	-8.76	112.75	121.50
4	D	183	ALA	CA-C-N	-8.75	107.68	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	D	183	ALA	C-N-CA	-8.75	107.68	120.28
6	Q	121	ALA	N-CA-C	8.75	121.61	111.11
3	C	789	ASP	CA-CB-CG	8.75	121.35	112.60
5	H	24	LEU	N-CA-CB	-8.75	99.42	110.45
5	N	147	HIS	CE1-NE2-CD2	-8.75	100.25	109.00
6	X	461	ASP	N-CA-C	8.75	124.08	108.24
5	R	4	HIS	ND1-CE1-NE2	8.75	117.15	108.40
3	C	1097	ALA	N-CA-C	8.75	124.62	113.25
5	H	244	ASN	N-CA-C	8.75	129.43	110.80
6	O	522	GLY	N-CA-C	8.74	123.96	112.77
6	O	573	ALA	N-CA-C	8.74	121.60	111.11
6	K	41	LEU	N-CA-C	8.74	121.76	111.71
6	V	513	HIS	CE1-NE2-CD2	-8.74	100.26	109.00
5	G	11	HIS	CA-C-O	8.73	130.25	120.90
6	P	522	GLY	N-CA-C	8.73	123.95	112.77
5	Y	102	HIS	CA-CB-CG	8.73	122.53	113.80
1	A	332	ASP	N-CA-C	8.73	120.88	111.36
6	U	241	ALA	N-CA-C	8.73	121.89	111.33
5	F	8	GLN	N-CA-C	8.73	122.05	111.40
2	B	695	SER	CA-C-O	-8.73	111.00	121.56
5	M	11	HIS	CA-C-O	8.73	130.24	120.90
5	S	8	GLN	N-CA-C	8.73	122.05	111.40
1	A	61	THR	N-CA-C	8.72	122.54	110.24
3	C	1196	ARG	CB-CG-CD	8.72	131.37	111.30
4	E	6	PHE	O-C-N	8.72	131.89	122.64
5	H	11	HIS	CB-CG-ND1	8.72	135.79	122.70
5	N	11	HIS	CB-CG-ND1	8.72	135.78	122.70
5	Y	11	HIS	CB-CG-ND1	8.72	135.78	122.70
6	U	619	ASP	CA-CB-CG	8.72	121.32	112.60
2	B	747	ILE	CB-CA-C	8.72	123.04	111.88
6	K	121	ALA	N-CA-C	8.72	121.57	111.11
3	C	270	SER	CA-C-N	8.71	132.40	120.46
3	C	270	SER	C-N-CA	8.71	132.40	120.46
5	T	250	HIS	CB-CG-CD2	-8.71	119.87	131.20
6	Q	619	ASP	CA-CB-CG	8.71	121.31	112.60
6	X	192	ASP	CA-CB-CG	8.71	121.31	112.60
1	A	610	THR	N-CA-C	8.71	122.39	109.59
3	C	49	GLN	N-CA-C	8.71	121.56	111.11
4	E	411	PHE	CA-CB-CG	8.71	122.51	113.80
6	O	271	LEU	O-C-N	8.71	134.17	122.59
1	A	738	ARG	N-CA-C	8.71	120.77	111.28
1	A	1043	PRO	O-C-N	8.71	134.39	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	Q	529	SER	N-CA-C	8.70	129.34	110.80
6	W	271	LEU	O-C-N	8.70	134.17	122.59
1	A	537	ILE	O-C-N	8.70	130.64	121.94
4	E	338	HIS	ND1-CE1-NE2	8.70	117.10	108.40
5	N	149	GLN	OE1-CD-NE2	8.70	131.30	122.60
6	P	111	PHE	N-CA-C	8.70	122.39	111.69
6	P	410	ASN	N-CA-C	8.70	123.68	112.89
5	M	171	HIS	N-CA-C	8.70	129.04	109.81
6	Q	111	PHE	N-CA-C	8.70	122.39	111.69
6	Q	169	MET	N-CA-C	8.70	123.65	112.34
5	S	30	THR	N-CA-C	8.70	121.72	111.71
6	X	271	LEU	O-C-N	8.70	134.16	122.59
6	U	625	ARG	NE-CZ-NH1	-8.70	112.80	121.50
6	O	625	ARG	NE-CZ-NH1	-8.70	112.80	121.50
6	X	501	ALA	N-CA-C	8.70	122.50	110.24
4	E	32	CYS	N-CA-C	8.70	123.72	112.41
5	F	157	HIS	CB-CG-CD2	-8.70	119.89	131.20
6	P	140	VAL	CA-C-O	8.70	130.46	121.41
1	A	827	ASN	CA-CB-CG	8.69	121.29	112.60
2	B	401	THR	CA-CB-OG1	8.69	122.64	109.60
2	B	956	HIS	CG-CD2-NE2	-8.69	98.51	107.20
3	C	662	LEU	O-C-N	8.69	131.33	122.12
4	E	144	ILE	N-CA-C	8.69	123.16	111.17
5	Y	250	HIS	CB-CG-CD2	-8.69	119.91	131.20
5	Y	11	HIS	CA-C-O	8.69	130.19	120.90
1	A	803	GLU	CA-C-O	-8.68	111.55	121.10
5	F	171	HIS	N-CA-C	8.68	129.00	109.81
6	K	122	THR	CA-C-O	-8.68	111.35	121.16
6	U	49	ARG	CA-C-N	8.68	130.69	119.84
6	U	49	ARG	C-N-CA	8.68	130.69	119.84
4	D	297	PRO	N-CA-CB	8.68	110.90	103.17
6	K	573	ALA	N-CA-C	8.68	121.53	111.11
6	Q	573	ALA	N-CA-C	8.68	121.53	111.11
6	I	501	ALA	N-CA-C	8.68	122.48	110.24
1	A	968	ALA	N-CA-C	8.68	123.54	109.40
6	Q	41	LEU	N-CA-C	8.68	121.69	111.71
4	E	118	VAL	CA-CB-CG2	8.67	125.15	110.40
5	H	250	HIS	CB-CG-CD2	-8.67	119.92	131.20
1	A	455	ALA	N-CA-C	8.67	123.61	112.34
5	G	157	HIS	CB-CG-CD2	-8.67	119.92	131.20
6	U	627	ARG	N-CA-C	8.67	120.73	111.28
3	C	949	HIS	CE1-NE2-CD2	-8.67	100.33	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	550	ARG	O-C-N	8.67	133.37	123.05
3	C	210	ILE	CA-C-O	-8.67	114.98	120.88
6	Q	168	THR	OG1-CB-CG2	-8.67	91.96	109.30
6	U	52	GLY	O-C-N	-8.67	111.43	122.70
4	D	158	HIS	ND1-CE1-NE2	8.67	117.07	108.40
5	G	11	HIS	CB-CG-ND1	8.67	135.70	122.70
5	R	185	VAL	CB-CA-C	8.67	122.56	112.68
6	W	142	ILE	CA-C-O	-8.67	111.94	120.95
6	K	283	SER	CA-C-O	8.66	129.99	120.63
6	Q	528	ALA	O-C-N	8.66	134.12	122.59
6	V	226	LYS	CA-C-O	8.66	131.16	121.02
6	V	297	ALA	O-C-N	-8.66	111.07	122.59
6	V	528	ALA	N-CA-CB	-8.66	95.85	110.49
6	P	577	VAL	N-CA-C	8.66	118.73	110.42
3	C	577	SER	O-C-N	8.66	133.65	122.39
6	I	513	HIS	CE1-NE2-CD2	-8.66	100.34	109.00
6	V	414	GLN	CG-CD-OE1	8.66	138.11	120.80
6	K	298	PHE	CE1-CZ-CE2	8.65	135.58	120.00
2	B	958	HIS	CE1-NE2-CD2	-8.65	100.35	109.00
6	P	528	ALA	N-CA-CB	-8.65	95.87	110.49
6	Q	264	SER	N-CA-C	8.65	121.66	111.71
5	H	8	GLN	N-CA-C	8.65	121.95	111.40
6	I	461	ASP	N-CA-C	8.65	123.89	108.24
6	P	81	THR	N-CA-C	8.65	120.40	110.97
6	I	162	HIS	ND1-CE1-NE2	8.64	117.05	108.40
5	M	59	HIS	N-CA-C	8.64	120.70	111.28
6	I	410	ASN	N-CA-C	8.64	123.64	113.18
5	N	171	HIS	N-CA-C	8.64	128.91	109.81
6	U	528	ALA	O-C-N	8.64	134.08	122.59
6	K	522	GLY	N-CA-C	8.64	123.83	112.77
6	U	562	TYR	CB-CG-CD1	-8.64	107.84	120.80
6	U	595	GLY	O-C-N	8.64	130.68	122.13
2	B	713	ASN	N-CA-C	8.63	123.65	113.20
6	O	192	ASP	CA-CB-CG	8.63	121.23	112.60
6	P	461	ASP	N-CA-C	8.63	123.87	108.24
6	J	297	ALA	O-C-N	-8.63	111.11	122.59
6	Q	414	GLN	OE1-CD-NE2	8.63	131.23	122.60
5	S	11	HIS	CA-C-O	8.63	130.13	120.90
5	S	102	HIS	CA-CB-CG	8.63	122.43	113.80
3	C	903	HIS	ND1-CE1-NE2	8.63	117.03	108.40
5	M	182	HIS	N-CA-C	8.63	123.29	111.90
4	E	306	PRO	CA-C-O	-8.62	111.51	121.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	Y	11	HIS	CB-CG-CD2	-8.62	119.99	131.20
6	Q	410	ASN	N-CA-C	8.62	123.61	113.18
2	B	242	ARG	NE-CZ-NH1	8.62	130.12	121.50
6	P	297	ALA	O-C-N	-8.62	111.12	122.59
6	U	513	HIS	CE1-NE2-CD2	-8.62	100.38	109.00
6	W	461	ASP	N-CA-C	8.62	123.84	108.24
6	J	472	ARG	N-CA-C	8.62	121.56	109.15
6	K	169	MET	N-CA-C	8.62	123.54	112.34
5	L	8	GLN	N-CA-C	8.62	121.91	111.40
3	C	298	LEU	N-CA-C	8.61	120.75	111.36
4	D	286	MET	N-CA-C	8.61	120.28	111.07
6	P	122	THR	CA-C-O	-8.61	111.43	121.16
6	K	154	ARG	CA-CB-CG	8.61	131.31	114.10
2	B	785	VAL	N-CA-C	8.61	120.31	107.75
5	L	234	ARG	N-CA-C	8.61	121.61	111.71
6	X	162	HIS	ND1-CE1-NE2	8.61	117.01	108.40
5	R	259	HIS	CA-CB-CG	8.61	122.41	113.80
4	D	276	HIS	CB-CG-CD2	-8.60	120.02	131.20
5	G	244	ASN	N-CA-C	8.60	129.12	110.80
6	Q	154	ARG	CA-CB-CG	8.60	131.30	114.10
3	C	362	THR	N-CA-C	8.60	122.87	112.38
5	L	244	ASN	N-CA-C	8.60	129.11	110.80
6	I	500	SER	N-CA-C	8.59	120.64	111.28
6	J	461	ASP	N-CA-C	8.59	123.79	108.24
2	B	861	ARG	O-C-N	8.59	131.02	122.09
6	J	539	ILE	O-C-N	8.59	130.20	121.87
1	A	135	LEU	N-CA-C	8.58	121.58	111.71
6	X	140	VAL	CA-C-O	8.58	130.34	121.41
4	D	307	ALA	N-CA-C	8.58	122.73	111.75
3	C	1195	TYR	CG-CD1-CE1	-8.58	108.33	121.20
6	V	529	SER	N-CA-C	8.58	129.07	110.80
1	A	768	ASN	N-CA-C	8.58	120.63	111.28
4	D	390	ASN	CA-C-O	-8.58	111.92	121.87
3	C	309	LEU	N-CA-C	8.57	124.18	108.58
5	G	259	HIS	CA-CB-CG	8.57	122.37	113.80
6	K	528	ALA	O-C-N	8.57	133.99	122.59
6	O	619	ASP	N-CA-CB	8.57	123.42	110.22
6	K	142	ILE	CA-C-O	-8.57	112.04	120.95
5	L	11	HIS	CB-CG-ND1	8.57	135.55	122.70
6	X	122	THR	CA-C-O	-8.56	111.48	121.16
6	I	264	SER	N-CA-C	8.56	121.56	111.71
6	I	439	GLY	O-C-N	8.56	129.78	123.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	L	4	HIS	ND1-CE1-NE2	8.56	116.97	108.40
6	U	13	ILE	N-CA-C	8.56	121.80	111.09
6	K	501	ALA	N-CA-C	8.56	122.31	110.24
6	O	530	ARG	N-CA-CB	8.56	124.96	110.49
4	E	400	THR	CB-CA-C	8.56	127.45	110.42
6	O	41	LEU	N-CA-C	8.56	121.55	111.71
3	C	612	ALA	N-CA-C	8.55	121.55	111.71
4	E	397	ALA	N-CA-C	8.56	120.69	111.36
5	N	157	HIS	CB-CG-CD2	-8.55	120.08	131.20
6	W	169	MET	N-CA-C	8.55	123.46	112.34
6	I	13	ILE	N-CA-C	8.55	121.78	111.09
6	Q	439	GLY	O-C-N	8.55	129.77	123.27
6	X	500	SER	N-CA-C	8.55	120.60	111.28
2	B	1121	ILE	N-CA-C	8.54	116.97	109.02
4	D	4	ARG	NE-CZ-NH2	8.54	126.89	119.20
6	J	567	ARG	CA-CB-CG	8.54	131.19	114.10
6	K	13	ILE	N-CA-C	8.54	121.77	111.09
5	N	77	GLU	CA-C-O	-8.54	111.67	121.07
2	B	1043	GLY	N-CA-C	8.54	121.22	110.29
5	F	11	HIS	CB-CG-CD2	-8.54	120.10	131.20
6	O	461	ASP	N-CA-C	8.54	123.70	108.24
6	U	528	ALA	N-CA-CB	-8.54	96.05	110.49
5	H	259	HIS	CA-CB-CG	8.54	122.34	113.80
5	S	250	HIS	CB-CG-CD2	-8.54	120.10	131.20
6	K	192	ASP	CA-CB-CG	8.54	121.14	112.60
6	Q	79	ARG	N-CA-C	8.54	121.36	111.11
6	V	573	ALA	N-CA-C	8.54	121.36	111.11
6	J	192	ASP	CA-CB-CG	8.54	121.14	112.60
5	L	112	ALA	O-C-N	8.54	129.41	121.04
6	P	457	PRO	N-CA-CB	8.54	112.21	103.25
3	C	757	VAL	CB-CA-C	8.53	123.66	112.14
6	W	501	ALA	N-CA-C	8.53	122.27	110.24
2	B	308	ASN	N-CA-C	8.53	123.50	112.41
2	B	820	VAL	N-CA-C	8.53	119.32	110.36
3	C	1071	ARG	NE-CZ-NH1	-8.53	112.97	121.50
3	C	1086	HIS	ND1-CE1-NE2	8.53	116.93	108.40
6	Q	577	VAL	N-CA-C	8.53	118.61	110.42
6	W	41	LEU	N-CA-C	8.53	121.52	111.71
6	X	410	ASN	N-CA-C	8.53	123.47	112.89
1	A	213	ARG	NE-CZ-NH2	8.53	126.87	119.20
5	F	11	HIS	CA-C-O	8.53	130.02	120.90
5	H	147	HIS	CE1-NE2-CD2	-8.53	100.47	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	I	193	ILE	N-CA-C	-8.53	104.23	111.56
6	K	38	PRO	O-C-N	8.53	131.39	122.18
4	D	20	LEU	N-CA-C	8.52	124.09	108.58
5	N	259	HIS	CA-CB-CG	8.52	122.32	113.80
6	Q	142	ILE	CA-C-O	-8.52	112.09	120.95
6	I	122	THR	CA-C-O	-8.52	111.53	121.16
6	V	283	SER	CA-C-O	8.52	129.83	120.63
5	Y	15	ARG	NE-CZ-NH1	-8.52	112.98	121.50
5	N	234	ARG	N-CA-C	8.52	122.65	111.75
5	H	4	HIS	CB-CG-ND1	-8.52	109.93	122.70
6	X	567	ARG	CA-CB-CG	8.52	131.13	114.10
6	V	414	GLN	OE1-CD-NE2	8.51	131.11	122.60
5	G	185	VAL	CB-CA-C	8.51	122.38	112.68
6	U	530	ARG	N-CA-CB	8.51	124.87	110.49
2	B	844	LEU	O-C-N	8.51	130.83	122.07
6	Q	595	GLY	O-C-N	8.51	130.55	122.13
1	A	841	ARG	N-CA-C	8.50	122.63	111.75
6	O	298	PHE	CB-CG-CD1	-8.50	106.25	120.70
6	U	469	VAL	N-CA-C	8.50	120.31	110.62
5	Y	24	LEU	N-CA-C	8.50	122.50	110.68
2	B	686	ARG	NE-CZ-NH1	-8.50	113.00	121.50
1	A	406	ASN	N-CA-C	8.50	128.90	110.80
5	G	102	HIS	CA-CB-CG	8.50	122.30	113.80
5	G	250	HIS	CB-CG-CD2	-8.50	120.15	131.20
6	K	282	VAL	CA-C-O	8.50	131.41	120.78
5	L	250	HIS	CB-CG-CD2	-8.50	120.15	131.20
5	R	102	HIS	CA-CB-CG	8.50	122.30	113.80
6	K	82	PHE	N-CA-C	8.50	121.61	111.33
6	Q	619	ASP	N-CA-CB	8.50	123.30	110.22
6	V	38	PRO	O-C-N	8.49	131.35	122.18
6	W	154	ARG	CA-CB-CG	8.49	131.09	114.10
6	X	627	ARG	N-CA-C	8.49	120.54	111.28
6	I	82	PHE	N-CA-C	8.49	121.61	111.33
5	Y	59	HIS	N-CA-C	8.49	120.54	111.28
1	A	1171	GLY	CA-C-O	8.49	128.72	119.55
6	I	619	ASP	N-CA-CB	8.49	123.30	110.22
2	B	879	PHE	CA-CB-CG	8.49	122.29	113.80
4	D	128	TYR	CA-C-O	8.49	129.73	120.82
6	X	41	LEU	N-CA-C	8.49	121.47	111.71
6	X	595	GLY	O-C-N	8.49	130.53	122.13
6	P	391	ILE	N-CA-C	8.49	122.88	111.17
5	S	185	VAL	CB-CA-C	8.49	122.35	112.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	263	VAL	CA-C-O	-8.48	112.23	121.05
6	O	168	THR	N-CA-C	8.48	123.76	113.41
6	U	522	GLY	N-CA-C	8.48	123.63	112.77
5	N	250	HIS	CB-CG-CD2	-8.48	120.17	131.20
6	Q	192	ASP	CA-CB-CG	8.48	121.08	112.60
6	Q	627	ARG	N-CA-C	8.48	120.53	111.28
6	J	457	PRO	N-CA-CB	8.48	112.15	103.25
6	Q	416	ARG	N-CA-C	-8.48	93.18	108.02
5	Y	77	GLU	CA-C-O	-8.48	112.10	121.00
3	C	1131	ARG	N-CA-C	8.48	122.73	110.10
6	X	82	PHE	N-CA-C	8.47	121.58	111.33
4	E	353	ALA	N-CA-C	8.47	121.58	111.33
6	U	182	ASN	OD1-CG-ND2	-8.47	114.13	122.60
6	X	142	ILE	CA-C-O	-8.47	112.14	120.95
2	B	971	GLU	N-CA-C	8.47	122.95	113.21
5	H	77	GLU	CA-C-O	-8.47	111.75	121.07
6	I	168	THR	N-CA-C	8.47	123.74	113.41
6	K	49	ARG	CA-C-N	8.47	130.43	119.84
6	K	49	ARG	C-N-CA	8.47	130.43	119.84
6	W	528	ALA	O-C-N	8.47	133.85	122.59
6	Q	271	LEU	O-C-N	8.47	133.85	122.59
5	L	147	HIS	CE1-NE2-CD2	-8.46	100.54	109.00
3	C	1030	GLN	CB-CG-CD	8.46	126.98	112.60
6	J	573	ALA	N-CA-C	8.46	121.27	111.11
6	O	627	ARG	N-CA-C	8.46	120.50	111.28
5	G	33	THR	CA-CB-OG1	8.46	122.29	109.60
6	J	500	SER	N-CA-C	8.46	120.50	111.28
6	O	500	SER	N-CA-C	8.46	120.50	111.28
3	C	170	LEU	N-CA-C	8.46	119.74	108.07
6	Q	528	ALA	N-CA-CB	-8.46	96.19	110.49
6	W	619	ASP	CA-CB-CG	8.46	121.06	112.60
4	D	136	TRP	N-CA-C	8.46	124.25	112.75
6	J	522	GLY	N-CA-C	8.46	123.60	112.77
5	Y	185	VAL	CB-CA-C	8.46	122.32	112.68
6	U	154	ARG	CA-CB-CG	8.46	131.01	114.10
6	O	528	ALA	N-CA-CB	-8.45	96.20	110.49
5	H	149	GLN	OE1-CD-NE2	8.45	131.05	122.60
2	B	450	ASP	CB-CA-C	-8.45	95.00	110.63
6	J	125	ASP	N-CA-C	8.45	120.49	111.28
5	Y	152	HIS	CE1-NE2-CD2	-8.45	100.55	109.00
3	C	855	GLN	O-C-N	8.45	130.81	122.03
6	I	522	GLY	N-CA-C	8.45	123.58	112.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	F	33	THR	CA-CB-OG1	8.44	122.26	109.60
5	G	24	LEU	N-CA-C	8.44	122.42	110.68
6	K	619	ASP	N-CA-CB	8.44	123.22	110.22
6	Q	412	ARG	NE-CZ-NH2	-8.44	111.60	119.20
6	U	573	ALA	N-CA-C	8.44	121.24	111.11
6	V	122	THR	CA-C-O	-8.44	111.62	121.16
3	C	167	ILE	N-CA-C	8.44	120.94	108.45
4	E	374	LEU	N-CA-C	8.44	122.68	112.38
5	N	152	HIS	CE1-NE2-CD2	-8.44	100.56	109.00
5	Y	29	ARG	NE-CZ-NH1	-8.44	113.06	121.50
1	A	1124	SER	N-CA-C	8.44	122.65	109.07
5	F	152	HIS	CE1-NE2-CD2	-8.44	100.56	109.00
5	G	213	THR	N-CA-C	8.44	122.55	111.75
4	D	221	GLY	O-C-N	8.43	129.46	122.71
6	K	469	VAL	N-CA-C	8.43	120.23	110.62
6	O	513	HIS	CE1-NE2-CD2	-8.43	100.57	109.00
6	P	123	ALA	O-C-N	8.43	131.81	122.11
6	Q	193	ILE	N-CA-C	-8.43	105.07	111.90
6	U	567	ARG	CA-CB-CG	8.43	130.96	114.10
3	C	89	ALA	N-CA-C	8.43	120.55	111.36
6	O	168	THR	CA-CB-CG2	8.43	124.83	110.50
6	P	567	ARG	CA-CB-CG	8.43	130.96	114.10
6	K	619	ASP	CA-CB-CG	8.43	121.03	112.60
6	O	13	ILE	N-CA-C	8.43	121.62	111.09
6	O	122	THR	CA-C-O	-8.43	111.64	121.16
6	Q	13	ILE	N-CA-C	8.43	121.62	111.09
2	B	881	VAL	O-C-N	8.42	129.07	121.57
6	O	82	PHE	N-CA-C	8.42	121.52	111.33
6	O	567	ARG	CA-CB-CG	8.42	130.95	114.10
1	A	128	ALA	N-CA-C	8.42	122.75	111.30
6	Q	241	ALA	N-CA-C	8.42	121.52	111.33
6	W	192	ASP	CA-CB-CG	8.42	121.02	112.60
5	L	15	ARG	NE-CZ-NH1	-8.42	113.08	121.50
6	Q	125	ASP	N-CA-C	8.42	120.45	111.28
6	W	577	VAL	N-CA-C	8.42	118.50	110.42
6	V	81	THR	N-CA-C	8.41	120.14	110.97
5	R	11	HIS	CB-CG-CD2	-8.41	120.27	131.20
2	B	727	ARG	NE-CZ-NH1	-8.41	113.09	121.50
6	K	567	ARG	CA-CB-CG	8.41	130.92	114.10
5	M	110	PHE	O-C-N	8.41	133.92	122.48
6	V	630	LEU	N-CA-C	8.41	120.07	111.07
6	W	79	ARG	N-CA-C	8.41	121.20	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	W	630	LEU	N-CA-C	8.41	120.06	111.07
2	B	516	ARG	NE-CZ-NH1	-8.40	113.10	121.50
3	C	1211	ARG	CA-C-N	8.40	131.88	120.54
3	C	1211	ARG	C-N-CA	8.40	131.88	120.54
6	I	271	LEU	O-C-N	8.40	133.77	122.59
6	U	410	ASN	N-CA-C	8.40	123.35	113.18
2	B	541	VAL	N-CA-CB	8.40	122.04	111.46
3	C	487	VAL	N-CA-CB	8.40	122.31	112.15
6	Q	152	ARG	NE-CZ-NH1	-8.40	113.10	121.50
6	Q	567	ARG	CA-CB-CG	8.40	130.90	114.10
6	X	472	ARG	N-CA-C	8.40	121.24	109.15
2	B	497	ILE	N-CA-C	8.39	121.58	111.09
6	W	267	ALA	N-CA-C	8.39	121.18	111.11
1	A	785	LEU	N-CA-C	8.39	120.51	111.36
6	X	241	ALA	N-CA-C	8.39	121.48	111.33
6	J	571	ARG	N-CA-C	8.39	121.18	111.11
6	W	140	VAL	CA-C-O	8.39	130.13	121.41
6	I	580	PRO	N-CA-C	8.38	125.97	113.81
6	K	390	ASN	OD1-CG-ND2	-8.38	114.22	122.60
6	I	539	ILE	O-C-N	8.38	130.00	121.87
6	V	595	GLY	O-C-N	8.38	130.43	122.13
1	A	399	ARG	N-CA-C	8.38	122.68	110.28
2	B	651	PRO	N-CA-CB	8.38	111.12	103.33
2	B	1096	GLU	N-CA-C	8.38	123.06	113.01
5	L	24	LEU	N-CA-C	8.38	122.33	110.68
6	Q	298	PHE	CE1-CZ-CE2	8.38	135.08	120.00
3	C	175	SER	O-C-N	8.38	132.02	122.22
4	D	238	LYS	CA-C-N	8.38	130.31	119.84
4	D	238	LYS	C-N-CA	8.38	130.31	119.84
5	G	4	HIS	ND1-CE1-NE2	8.38	116.78	108.40
2	B	357	ALA	N-CA-C	8.37	121.46	111.33
6	I	528	ALA	O-C-N	8.38	133.73	122.59
5	T	24	LEU	N-CA-CB	-8.38	99.90	110.45
3	C	118	VAL	CA-C-O	8.37	126.27	118.90
5	F	185	VAL	CB-CA-C	8.37	122.22	112.68
6	I	140	VAL	CA-C-O	8.37	130.12	121.41
6	Q	500	SER	N-CA-C	8.37	120.41	111.28
6	V	41	LEU	N-CA-C	8.37	121.34	111.71
6	V	391	ILE	N-CA-C	8.37	122.72	111.17
2	B	958	HIS	ND1-CE1-NE2	8.37	116.77	108.40
4	E	129	VAL	O-C-N	8.37	129.99	121.87
5	Y	234	ARG	N-CA-C	8.37	122.46	111.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	E	276	HIS	CB-CG-CD2	-8.37	120.32	131.20
6	V	567	ARG	CA-CB-CG	8.37	130.84	114.10
6	W	567	ARG	CA-CB-CG	8.37	130.84	114.10
6	X	49	ARG	CA-C-N	8.37	130.30	119.84
6	X	49	ARG	C-N-CA	8.37	130.30	119.84
5	T	4	HIS	CB-CG-ND1	-8.37	110.15	122.70
2	B	366	ASP	N-CA-C	8.36	122.46	111.75
3	C	715	VAL	CG1-CB-CG2	-8.36	92.40	110.80
3	C	1120	PRO	O-C-N	8.36	132.46	123.10
4	E	81	GLY	O-C-N	8.36	130.18	122.99
6	U	619	ASP	N-CA-CB	8.36	123.09	110.22
6	W	612	SER	CB-CA-C	8.36	125.72	111.68
6	P	192	ASP	CA-CB-CG	8.36	120.96	112.60
1	A	391	VAL	CA-C-N	8.36	128.41	119.89
1	A	391	VAL	C-N-CA	8.36	128.41	119.89
3	C	1135	TYR	N-CA-C	8.36	123.32	112.12
6	W	619	ASP	N-CA-CB	8.35	123.09	110.22
3	C	404	MET	N-CA-C	8.35	121.13	111.11
3	C	512	SER	N-CA-C	8.35	120.38	111.28
6	J	121	ALA	N-CA-C	8.35	121.13	111.11
6	I	456	ASN	CA-CB-CG	-8.35	104.25	112.60
5	N	185	VAL	CB-CA-C	8.35	122.20	112.68
5	G	11	HIS	CB-CG-CD2	-8.35	120.34	131.20
6	Q	217	ALA	N-CA-C	8.35	122.89	112.87
6	O	501	ALA	N-CA-C	8.35	122.04	110.35
6	P	241	ALA	N-CA-C	8.35	121.43	111.33
6	P	573	ALA	N-CA-C	8.35	121.13	111.11
5	T	51	PHE	CA-CB-CG	8.35	122.15	113.80
3	C	1191	TYR	CA-C-N	8.35	135.46	122.94
3	C	1191	TYR	C-N-CA	8.35	135.46	122.94
6	J	241	ALA	N-CA-C	8.35	121.43	111.33
6	U	501	ALA	N-CA-C	8.35	122.03	110.35
6	O	79	ARG	N-CA-C	8.35	121.12	111.11
6	W	38	PRO	O-C-N	8.35	131.19	122.18
5	F	234	ARG	N-CA-C	8.34	122.43	111.75
6	K	577	VAL	N-CA-C	8.34	118.42	110.42
6	W	627	ARG	N-CA-C	8.34	120.37	111.28
5	Y	234	ARG	NE-CZ-NH1	-8.34	113.16	121.50
3	C	863	ALA	CB-CA-C	-8.34	98.12	110.96
6	V	267	ALA	N-CA-C	8.34	121.11	111.11
6	W	49	ARG	CA-C-N	8.34	130.26	119.84
6	W	49	ARG	C-N-CA	8.34	130.26	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	D	141	ASP	CA-CB-CG	8.33	120.93	112.60
3	C	304	PHE	N-CA-CB	-8.33	97.87	110.12
5	H	185	VAL	CB-CA-C	8.33	122.18	112.68
6	V	501	ALA	N-CA-C	8.33	121.98	110.24
6	P	267	ALA	N-CA-C	8.33	121.10	111.11
5	S	149	GLN	OE1-CD-NE2	8.33	130.93	122.60
3	C	1151	ALA	O-C-N	8.32	131.69	122.20
4	D	69	ASN	CA-C-O	-8.32	111.99	120.90
6	W	168	THR	N-CA-C	8.32	123.56	113.41
4	D	54	TRP	CG-CD2-CE3	-8.32	125.58	133.90
6	I	528	ALA	N-CA-CB	-8.32	96.43	110.49
6	W	324	GLY	O-C-N	8.32	129.25	122.51
6	W	412	ARG	NE-CZ-NH2	-8.32	111.71	119.20
2	B	886	ASP	N-CA-C	8.32	122.69	112.54
3	C	452	ARG	NE-CZ-NH2	8.32	126.69	119.20
5	T	234	ARG	N-CA-C	8.31	122.39	111.75
2	B	962	GLN	N-CA-C	8.31	121.27	111.71
6	W	530	ARG	N-CA-CB	8.31	124.53	110.49
6	J	580	PRO	N-CA-C	8.31	126.13	113.75
6	X	63	ILE	O-C-N	8.31	131.44	122.63
1	A	340	LEU	N-CA-C	8.30	120.33	111.28
4	D	184	HIS	N-CA-CB	-8.30	97.43	110.22
1	A	538	ARG	N-CA-C	8.30	120.33	111.28
4	E	75	HIS	ND1-CE1-NE2	8.30	116.70	108.40
6	Q	282	VAL	CA-C-O	8.30	131.16	120.78
6	U	298	PHE	CB-CG-CD1	-8.30	106.59	120.70
6	V	79	ARG	N-CA-C	8.30	121.07	111.11
6	V	410	ASN	N-CA-C	8.30	123.23	113.18
6	V	622	GLU	N-CA-C	8.30	120.41	111.36
6	K	595	GLY	O-C-N	8.30	130.34	122.13
5	M	152	HIS	ND1-CE1-NE2	8.30	116.70	108.40
6	U	142	ILE	CA-C-O	-8.30	112.32	120.95
5	L	131	ARG	NE-CZ-NH2	8.30	126.67	119.20
5	Y	78	ALA	CA-C-O	-8.30	111.67	120.63
6	K	500	SER	N-CA-C	8.29	120.32	111.28
6	Q	122	THR	CA-C-O	-8.29	111.79	121.16
3	C	316	THR	N-CA-CB	8.29	123.39	109.87
3	C	708	PHE	N-CA-C	8.29	121.06	111.11
6	U	390	ASN	OD1-CG-ND2	-8.29	114.31	122.60
6	K	283	SER	N-CA-C	8.29	121.36	111.33
5	R	152	HIS	CE1-NE2-CD2	-8.29	100.71	109.00
4	E	170	THR	N-CA-C	8.29	119.94	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	418	ASN	OD1-CG-ND2	-8.29	114.31	122.60
6	O	456	ASN	CA-CB-CG	-8.29	104.31	112.60
6	O	562	TYR	CD1-CE1-CZ	8.29	134.52	119.60
5	T	59	HIS	N-CA-C	8.29	120.31	111.28
6	X	391	ILE	N-CA-C	8.29	122.61	111.17
5	T	33	THR	CA-CB-OG1	8.29	122.03	109.60
6	U	456	ASN	CA-CB-CG	-8.29	104.31	112.60
1	A	627	PHE	N-CA-C	8.29	119.94	111.07
6	W	82	PHE	N-CA-C	8.29	121.36	111.33
2	B	516	ARG	N-CA-C	8.28	121.35	111.33
3	C	1131	ARG	NE-CZ-NH1	-8.28	113.22	121.50
6	P	595	GLY	O-C-N	8.28	130.33	122.13
5	R	33	THR	CA-CB-OG1	8.28	122.02	109.60
2	B	548	ASP	CA-CB-CG	8.28	120.88	112.60
6	K	416	ARG	N-CA-C	-8.28	93.53	108.02
5	L	11	HIS	CB-CG-CD2	-8.27	120.45	131.20
6	Q	513	HIS	CE1-NE2-CD2	-8.27	100.73	109.00
5	R	78	ALA	CA-C-O	-8.27	111.70	120.63
5	T	152	HIS	CE1-NE2-CD2	-8.27	100.73	109.00
6	V	577	VAL	N-CA-C	8.27	118.36	110.42
6	W	226	LYS	CA-C-O	8.27	130.69	121.02
6	W	283	SER	CA-C-O	8.27	129.56	120.63
1	A	1164	ALA	N-CA-CB	-8.27	99.18	111.25
6	X	267	ALA	N-CA-C	8.26	121.03	111.11
1	A	1020	SER	CA-CB-OG	8.26	127.62	111.10
4	E	338	HIS	CA-CB-CG	8.26	122.06	113.80
6	W	152	ARG	NE-CZ-NH1	-8.26	113.24	121.50
1	A	54	ARG	NE-CZ-NH2	8.26	126.63	119.20
6	J	140	VAL	CA-C-O	8.26	130.00	121.41
2	B	930	ARG	NE-CZ-NH2	8.26	126.63	119.20
6	K	271	LEU	O-C-N	8.26	133.57	122.59
5	H	182	HIS	N-CA-C	8.26	122.80	111.90
6	Q	501	ALA	N-CA-C	8.26	121.88	110.24
6	U	226	LYS	CA-C-O	8.26	130.68	121.02
6	X	13	ILE	N-CA-C	8.26	121.41	111.09
5	H	234	ARG	N-CA-C	8.25	122.31	111.75
6	J	391	ILE	N-CA-C	8.25	122.56	111.17
5	T	182	HIS	N-CA-C	8.25	122.79	111.90
4	E	376	ALA	N-CA-C	8.25	120.27	111.28
6	I	79	ARG	N-CA-C	8.25	121.01	111.11
5	G	152	HIS	CE1-NE2-CD2	-8.25	100.75	109.00
6	P	530	ARG	N-CA-CB	8.25	124.43	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	W	587	GLY	O-C-N	8.25	131.99	122.34
6	X	306	TRP	N-CA-C	8.25	123.18	113.20
6	Q	82	PHE	N-CA-C	8.25	121.31	111.33
1	A	720	PHE	CA-CB-CG	8.24	122.05	113.80
3	C	538	ASN	OD1-CG-ND2	-8.24	114.36	122.60
6	I	530	ARG	N-CA-CB	8.24	124.42	110.49
6	I	168	THR	CA-CB-CG2	8.24	124.51	110.50
2	B	1023	ARG	CB-CA-C	8.24	118.73	110.33
5	G	152	HIS	ND1-CE1-NE2	8.24	116.64	108.40
5	Y	149	GLN	OE1-CD-NE2	8.24	130.84	122.60
3	C	490	PRO	CA-C-N	8.24	132.41	120.38
3	C	490	PRO	C-N-CA	8.24	132.41	120.38
3	C	1095	ASP	CA-CB-CG	8.24	120.84	112.60
6	I	391	ILE	N-CA-C	8.24	122.53	111.17
6	J	162	HIS	CE1-NE2-CD2	-8.24	100.76	109.00
6	K	162	HIS	CE1-NE2-CD2	-8.24	100.76	109.00
6	P	49	ARG	CA-C-N	8.24	130.14	119.84
6	P	49	ARG	C-N-CA	8.24	130.14	119.84
5	S	234	ARG	N-CA-C	8.24	122.30	111.75
6	V	79	ARG	N-CA-CB	8.24	122.22	109.94
6	U	79	ARG	N-CA-C	8.23	120.99	111.11
2	B	533	ALA	N-CA-C	8.23	121.29	111.33
4	E	225	ARG	NE-CZ-NH1	-8.23	113.27	121.50
6	J	271	LEU	O-C-N	8.23	133.54	122.59
6	K	241	ALA	N-CA-C	8.23	121.29	111.33
2	B	956	HIS	CB-CG-CD2	-8.23	120.50	131.20
4	D	13	PHE	CA-CB-CG	8.23	122.03	113.80
6	O	283	SER	CA-C-O	8.22	129.51	120.63
6	W	154	ARG	NE-CZ-NH2	8.22	126.60	119.20
5	F	182	HIS	N-CA-C	8.22	122.75	111.90
5	H	11	HIS	CB-CG-CD2	-8.22	120.51	131.20
6	J	267	ALA	N-CA-C	8.22	120.97	111.11
5	M	112	ALA	O-C-N	8.22	129.09	121.04
6	V	192	ASP	CA-CB-CG	8.21	120.81	112.60
1	A	464	TYR	N-CA-C	8.21	122.72	112.87
6	O	162	HIS	CE1-NE2-CD2	-8.21	100.79	109.00
1	A	671	THR	CA-CB-OG1	8.21	121.92	109.60
1	A	995	CYS	N-CA-C	8.21	122.56	112.54
2	B	1125	TYR	CA-C-N	8.21	130.10	119.84
2	B	1125	TYR	C-N-CA	8.21	130.10	119.84
3	C	1060	ARG	NE-CZ-NH1	-8.21	113.29	121.50
6	W	500	SER	N-CA-C	8.21	120.23	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	E	369	HIS	CE1-NE2-CD2	-8.21	100.79	109.00
5	F	11	HIS	CB-CG-ND1	8.21	135.01	122.70
6	I	390	ASN	OD1-CG-ND2	-8.21	114.39	122.60
6	J	469	VAL	N-CA-C	8.21	119.98	110.62
6	U	324	GLY	O-C-N	8.21	129.16	122.51
6	X	513	HIS	CE1-NE2-CD2	-8.21	100.79	109.00
5	T	11	HIS	CB-CG-ND1	8.20	135.00	122.70
6	W	306	TRP	N-CA-C	8.21	123.13	113.20
6	W	416	ARG	N-CA-C	-8.20	93.66	108.02
6	O	391	ILE	N-CA-C	8.20	122.49	111.17
6	U	271	LEU	O-C-N	8.20	133.50	122.59
2	B	956	HIS	CE1-NE2-CD2	8.20	117.20	109.00
3	C	737	ARG	O-C-N	8.20	130.81	122.12
6	J	82	PHE	N-CA-C	8.20	121.25	111.33
6	K	79	ARG	N-CA-CB	8.20	122.15	109.94
5	L	259	HIS	CA-CB-CG	8.20	122.00	113.80
2	B	379	GLY	N-CA-C	8.19	132.60	113.18
5	M	144	VAL	CA-C-O	-8.20	112.48	121.17
6	W	414	GLN	OE1-CD-NE2	8.20	130.80	122.60
3	C	931	ILE	N-CA-C	8.19	119.99	108.93
6	K	513	HIS	CE1-NE2-CD2	-8.19	100.81	109.00
6	U	168	THR	CA-CB-CG2	8.19	124.42	110.50
6	P	501	ALA	N-CA-C	8.19	121.78	110.24
6	W	595	GLY	O-C-N	8.19	130.24	122.13
1	A	275	ASN	CA-CB-CG	8.19	120.79	112.60
2	B	607	HIS	CB-CG-CD2	-8.19	120.56	131.20
5	H	33	THR	CA-CB-OG1	8.19	121.88	109.60
2	B	202	THR	N-CA-C	8.19	121.44	107.93
2	B	749	HIS	N-CA-C	8.19	123.86	113.55
6	O	204	PRO	CA-C-N	8.19	131.59	120.54
6	O	204	PRO	C-N-CA	8.19	131.59	120.54
6	V	247	SER	N-CA-C	8.19	128.24	110.80
1	A	1128	THR	CA-C-N	8.18	128.81	120.38
1	A	1128	THR	C-N-CA	8.18	128.81	120.38
6	I	79	ARG	N-CA-CB	8.18	122.13	109.94
6	K	580	PRO	N-CA-C	8.18	125.94	113.75
5	L	11	HIS	CA-C-O	8.18	129.66	120.90
1	A	32	ASP	N-CA-C	8.18	119.82	111.07
6	K	571	ARG	N-CA-C	8.18	120.93	111.11
5	Y	33	THR	CA-CB-OG1	8.18	121.87	109.60
5	M	234	ARG	N-CA-C	8.18	122.22	111.75
6	P	247	SER	N-CA-C	8.18	128.22	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	484	THR	N-CA-C	8.18	121.52	109.50
6	P	513	HIS	ND1-CE1-NE2	8.18	116.58	108.40
6	Q	283	SER	CA-C-O	8.18	129.46	120.63
5	S	144	VAL	CA-C-O	-8.18	112.50	121.17
5	T	59	HIS	CE1-NE2-CD2	-8.18	100.82	109.00
6	W	391	ILE	N-CA-C	8.18	122.45	111.17
6	J	562	TYR	CD1-CE1-CZ	8.17	134.31	119.60
3	C	125	ARG	CD-NE-CZ	8.17	135.84	124.40
5	N	15	ARG	NE-CZ-NH1	-8.17	113.33	121.50
6	X	580	PRO	N-CA-C	8.17	125.93	113.75
2	B	379	GLY	O-C-N	-8.17	112.08	122.70
2	B	782	ASN	CA-CB-CG	8.17	120.77	112.60
5	L	185	VAL	CB-CA-C	8.17	122.00	112.68
6	I	81	THR	N-CA-C	8.17	120.98	111.02
5	R	24	LEU	N-CA-C	8.17	122.03	110.68
6	U	630	LEU	N-CA-C	8.17	119.81	111.07
6	Q	580	PRO	N-CA-C	8.16	125.65	113.81
2	B	797	ALA	N-CA-C	8.16	121.10	111.71
2	B	952	PRO	O-C-N	8.16	130.85	122.93
6	O	193	ILE	N-CA-C	-8.16	104.54	111.56
6	Q	390	ASN	OD1-CG-ND2	-8.16	114.44	122.60
5	R	11	HIS	CB-CG-ND1	8.16	134.94	122.70
6	K	612	SER	CB-CA-C	8.16	125.39	111.68
1	A	118	LEU	N-CA-C	8.16	120.90	111.11
2	B	524	ASP	CA-CB-CG	8.16	120.76	112.60
5	S	112	ALA	O-C-N	8.16	129.03	121.04
3	C	254	ASP	CA-CB-CG	8.16	120.76	112.60
6	K	391	ILE	N-CA-C	8.16	122.43	111.17
1	A	511	ASP	CA-C-N	8.15	133.74	120.94
1	A	511	ASP	C-N-CA	8.15	133.74	120.94
6	P	390	ASN	OD1-CG-ND2	-8.15	114.45	122.60
5	T	102	HIS	CA-CB-CG	8.15	121.95	113.80
6	K	585	GLN	CB-CA-C	8.15	123.83	110.22
5	L	210	THR	N-CA-CB	8.15	121.89	110.07
6	X	204	PRO	CA-C-N	8.15	131.54	120.54
6	X	204	PRO	C-N-CA	8.15	131.54	120.54
1	A	290	HIS	CB-CG-CD2	-8.15	120.61	131.20
3	C	844	LEU	N-CA-C	8.15	120.96	111.02
6	O	79	ARG	N-CA-CB	8.15	122.08	109.94
5	T	210	THR	N-CA-CB	8.15	121.88	110.07
3	C	749	HIS	ND1-CE1-NE2	8.14	116.55	108.40
4	E	293	VAL	N-CA-C	8.14	123.24	113.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	L	152	HIS	CE1-NE2-CD2	-8.14	100.86	109.00
6	O	580	PRO	N-CA-C	8.14	125.89	113.75
5	S	210	THR	N-CA-CB	8.14	121.88	110.07
1	A	536	ASP	CA-CB-CG	8.14	120.74	112.60
1	A	730	ASN	CA-CB-CG	8.14	120.74	112.60
6	J	63	ILE	O-C-N	8.14	131.26	122.63
6	W	241	ALA	N-CA-C	8.14	121.18	111.33
5	Y	182	HIS	N-CA-C	8.14	122.65	111.90
1	A	1041	PRO	N-CA-CB	8.14	111.04	103.15
6	X	152	ARG	NE-CZ-NH1	-8.14	113.36	121.50
6	X	577	VAL	N-CA-C	8.14	118.23	110.42
5	N	51	PHE	CA-CB-CG	8.13	121.94	113.80
5	T	144	VAL	CA-C-O	-8.13	112.55	121.17
6	I	627	ARG	N-CA-C	8.13	120.14	111.28
1	A	318	VAL	N-CA-C	8.13	121.96	109.12
2	B	1029	PRO	CB-CA-C	-8.13	101.14	111.71
5	M	78	ALA	N-CA-C	8.13	121.17	111.33
6	Q	530	ARG	N-CA-CB	8.13	124.23	110.49
6	W	264	SER	N-CA-C	8.13	121.06	111.71
1	A	954	HIS	CG-CD2-NE2	8.12	115.33	107.20
4	E	75	HIS	CE1-NE2-CD2	-8.12	100.88	109.00
5	G	15	ARG	NE-CZ-NH1	-8.13	113.37	121.50
6	P	469	VAL	N-CA-C	8.12	119.88	110.62
2	B	1095	ASP	CA-C-O	-8.12	111.59	120.36
6	V	500	SER	N-CA-C	8.12	120.13	111.28
1	A	53	ASP	CA-CB-CG	8.12	120.72	112.60
6	K	576	PHE	N-CA-C	8.12	120.85	111.11
1	A	88	ILE	CA-C-O	-8.12	111.70	120.47
2	B	274	TYR	CA-C-O	8.12	129.17	119.59
4	E	67	VAL	CA-C-O	8.12	129.40	120.71
6	O	577	VAL	N-CA-C	8.12	118.21	110.42
3	C	1108	ASN	CA-CB-CG	8.12	120.72	112.60
6	O	154	ARG	CA-CB-CG	8.12	130.33	114.10
1	A	369	ILE	N-CA-CB	8.11	119.14	110.62
6	P	63	ILE	O-C-N	8.11	131.23	122.63
5	T	112	ALA	O-C-N	8.12	128.99	121.04
2	B	301	LEU	N-CA-C	8.11	120.12	111.28
5	F	78	ALA	CA-C-O	-8.11	111.87	120.63
6	V	416	ARG	CB-CA-C	8.11	123.80	110.74
6	I	154	ARG	CA-CB-CG	8.11	130.32	114.10
1	A	334	ARG	NE-CZ-NH1	-8.11	113.39	121.50
6	J	13	ILE	N-CA-C	8.11	121.22	111.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	224	ASP	CA-CB-CG	8.11	120.71	112.60
5	M	11	HIS	CB-CG-ND1	8.11	134.86	122.70
5	M	234	ARG	NE-CZ-NH1	-8.11	113.39	121.50
6	P	283	SER	CA-C-O	8.11	129.38	120.63
6	U	391	ILE	N-CA-C	8.11	122.36	111.17
6	W	585	GLN	CB-CA-C	8.10	123.75	110.22
2	B	861	ARG	NE-CZ-NH2	8.10	126.49	119.20
6	U	204	PRO	CA-C-N	8.10	131.48	120.54
6	U	204	PRO	C-N-CA	8.10	131.48	120.54
6	W	576	PHE	N-CA-C	8.10	120.83	111.11
6	I	567	ARG	CA-CB-CG	8.10	130.30	114.10
6	U	152	ARG	NE-CZ-NH1	-8.10	113.40	121.50
1	A	794	PRO	O-C-N	8.10	124.96	121.15
6	U	267	ALA	N-CA-C	8.10	121.13	111.33
5	Y	180	HIS	N-CA-C	8.10	119.53	109.57
1	A	868	ASP	CA-C-N	8.09	129.96	119.84
1	A	868	ASP	C-N-CA	8.09	129.96	119.84
5	M	33	THR	CA-CB-OG1	8.09	121.74	109.60
6	O	106	ILE	N-CA-C	8.09	126.17	109.34
4	D	156	ILE	O-C-N	8.09	132.09	122.62
5	T	185	VAL	CB-CA-C	8.09	121.91	112.68
6	V	319	THR	CA-C-O	-8.09	111.62	120.36
5	F	147	HIS	CG-CD2-NE2	8.09	115.29	107.20
6	J	142	ILE	O-C-N	8.09	129.71	121.87
5	G	59	HIS	CE1-NE2-CD2	-8.08	100.92	109.00
5	G	78	ALA	N-CA-C	8.08	121.11	111.33
6	P	169	MET	N-CA-C	8.08	122.24	112.38
6	P	580	PRO	N-CA-C	8.08	125.53	113.81
6	Q	612	SER	CB-CA-C	8.08	125.26	111.68
5	S	182	HIS	N-CA-C	8.08	122.57	111.90
6	V	576	PHE	N-CA-C	8.08	120.81	111.11
5	Y	144	VAL	CA-C-O	-8.08	112.60	121.17
2	B	337	PRO	N-CA-C	8.08	124.56	113.65
5	L	33	THR	CA-CB-OG1	8.08	121.72	109.60
6	O	241	ALA	N-CA-C	8.08	121.11	111.33
1	A	660	GLY	O-C-N	8.08	130.52	123.25
2	B	511	ILE	N-CA-C	8.08	118.84	110.36
6	O	38	PRO	O-C-N	8.08	130.90	122.18
1	A	442	ILE	N-CA-C	8.07	120.00	109.58
1	A	1027	HIS	ND1-CE1-NE2	8.07	116.47	108.40
3	C	862	GLU	N-CA-C	8.07	121.00	111.71
5	G	210	THR	N-CA-CB	8.07	121.78	110.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	204	PRO	CA-C-N	8.07	131.44	120.54
6	P	204	PRO	C-N-CA	8.07	131.44	120.54
6	V	49	ARG	CA-C-N	8.07	129.93	119.84
6	V	49	ARG	C-N-CA	8.07	129.93	119.84
2	B	277	VAL	N-CA-C	8.07	118.65	110.82
2	B	853	ARG	O-C-N	8.07	130.38	122.07
3	C	386	GLU	CB-CG-CD	-8.07	98.88	112.60
6	K	79	ARG	N-CA-C	8.07	120.80	111.11
1	A	275	ASN	N-CA-C	8.07	123.17	113.16
3	C	887	ALA	N-CA-C	8.07	123.13	113.28
4	D	45	ALA	N-CA-C	8.07	120.08	111.28
6	I	469	VAL	N-CA-C	8.07	119.82	110.62
6	V	204	PRO	CA-C-N	8.07	131.43	120.54
6	V	204	PRO	C-N-CA	8.07	131.43	120.54
4	D	198	GLN	N-CA-C	8.06	122.05	109.96
4	D	342	ARG	NE-CZ-NH1	-8.06	113.44	121.50
5	F	144	VAL	CA-C-O	-8.06	112.62	121.17
6	I	562	TYR	CD1-CE1-CZ	8.06	134.11	119.60
6	I	612	SER	CB-CA-C	8.06	125.23	111.68
6	Q	587	GLY	O-C-N	8.06	131.77	122.34
6	X	226	LYS	CA-C-O	8.06	130.45	121.02
6	W	79	ARG	N-CA-CB	8.06	121.95	109.94
5	Y	259	HIS	CA-CB-CG	8.06	121.86	113.80
6	V	121	ALA	N-CA-C	8.06	120.78	111.11
1	A	17	THR	N-CA-C	8.05	123.19	113.12
6	J	319	THR	CA-C-O	-8.06	111.66	120.36
2	B	1190	LEU	N-CA-CB	-8.05	98.45	110.61
6	P	271	LEU	O-C-N	8.05	133.30	122.59
6	W	193	ILE	N-CA-C	-8.05	105.38	111.90
1	A	329	THR	CA-C-O	-8.05	112.78	121.56
3	C	1033	ASP	O-C-N	8.05	133.30	122.59
1	A	1211	THR	N-CA-C	8.05	127.60	109.81
3	C	740	LYS	CA-C-O	8.05	132.02	120.51
4	D	410	MET	O-C-N	8.05	130.65	122.12
6	U	283	SER	CA-C-O	8.05	129.08	120.55
4	E	43	HIS	CA-CB-CG	8.05	121.85	113.80
5	F	29	ARG	NE-CZ-NH2	8.05	126.44	119.20
6	K	622	GLU	N-CA-C	8.05	120.13	111.36
6	V	418	ASN	OD1-CG-ND2	-8.05	114.55	122.60
6	W	81	THR	N-CA-C	8.05	120.84	111.02
6	K	587	GLY	O-C-N	8.04	131.75	122.34
5	L	44	GLY	O-C-N	8.04	133.16	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	V	106	ILE	N-CA-C	8.05	126.08	109.34
6	J	204	PRO	CA-C-N	8.04	131.40	120.54
6	J	204	PRO	C-N-CA	8.04	131.40	120.54
6	Q	319	THR	CA-C-O	-8.04	111.68	120.36
5	T	234	ARG	NE-CZ-NH1	-8.04	113.46	121.50
6	K	226	LYS	CA-C-O	8.04	130.43	121.02
5	R	15	ARG	NE-CZ-NH1	-8.04	113.46	121.50
6	P	585	GLN	CB-CA-C	8.04	123.64	110.22
5	R	78	ALA	N-CA-C	8.04	121.05	111.33
1	A	219	ASN	CA-CB-CG	8.04	120.64	112.60
6	I	324	GLY	O-C-N	8.04	129.02	122.51
5	L	59	HIS	CE1-NE2-CD2	-8.03	100.97	109.00
5	N	210	THR	N-CA-CB	8.03	121.72	110.07
2	B	564	TRP	CG-CD2-CE3	-8.03	125.87	133.90
6	I	267	ALA	N-CA-C	8.03	120.75	111.11
5	Y	112	ALA	O-C-N	8.03	128.91	121.04
4	E	45	ALA	N-CA-C	8.03	119.66	111.07
5	L	110	PHE	O-C-N	8.03	133.33	122.57
5	M	4	HIS	ND1-CE1-NE2	8.03	116.43	108.40
4	D	338	HIS	CE1-NE2-CD2	-8.03	100.97	109.00
4	E	147	MET	N-CA-C	8.03	122.75	113.19
5	M	152	HIS	CE1-NE2-CD2	-8.03	100.97	109.00
5	R	210	THR	N-CA-CB	8.03	121.71	110.07
5	T	147	HIS	CG-CD2-NE2	8.03	115.23	107.20
1	A	1021	ARG	NE-CZ-NH2	8.03	126.42	119.20
2	B	467	ALA	N-CA-C	8.03	122.17	112.38
5	F	15	ARG	NE-CZ-NH1	-8.03	113.47	121.50
5	S	78	ALA	CA-C-O	-8.03	111.96	120.63
2	B	514	ILE	N-CA-C	8.02	118.57	110.23
2	B	1205	ASP	N-CA-C	8.02	122.33	112.54
3	C	179	LEU	N-CA-C	8.02	122.65	112.86
6	J	264	SER	N-CA-C	8.02	120.94	111.71
6	O	81	THR	N-CA-C	8.02	120.81	111.02
6	O	142	ILE	O-C-N	8.02	129.65	121.87
3	C	308	ASN	CA-CB-CG	8.02	120.62	112.60
6	I	298	PHE	CB-CG-CD1	-8.02	107.06	120.70
6	O	306	TRP	N-CA-C	8.02	122.91	113.20
6	Q	49	ARG	CA-C-N	8.02	129.87	119.84
6	Q	49	ARG	C-N-CA	8.02	129.87	119.84
6	Q	140	VAL	CA-C-O	8.02	129.75	121.41
6	P	418	ASN	OD1-CG-ND2	-8.02	114.58	122.60
1	A	213	ARG	N-CA-C	8.02	120.73	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	761	GLY	N-CA-C	8.02	122.80	111.10
5	G	149	GLN	OE1-CD-NE2	8.02	130.62	122.60
1	A	609	MET	N-CA-C	8.01	121.12	111.82
5	H	210	THR	N-CA-CB	8.01	121.69	110.07
6	P	79	ARG	N-CA-C	8.01	120.73	111.11
6	W	573	ALA	N-CA-C	8.01	120.72	111.11
4	D	364	LEU	CA-C-N	8.01	131.35	120.54
4	D	364	LEU	C-N-CA	8.01	131.35	120.54
6	P	79	ARG	N-CA-CB	8.01	121.88	109.94
6	P	142	ILE	O-C-N	8.01	129.64	121.87
2	B	985	VAL	O-C-N	8.01	131.85	123.20
5	F	259	HIS	CA-CB-CG	8.01	121.81	113.80
5	H	15	ARG	NE-CZ-NH1	-8.01	113.49	121.50
1	A	274	ALA	N-CA-C	8.01	121.02	111.33
6	I	59	ASP	N-CA-C	8.01	122.00	111.75
6	U	192	ASP	CA-CB-CG	8.01	120.61	112.60
6	W	390	ASN	OD1-CG-ND2	-8.01	114.59	122.60
2	B	307	SER	N-CA-C	8.00	122.67	113.15
2	B	516	ARG	NE-CZ-NH2	8.00	126.40	119.20
6	P	82	PHE	N-CA-C	8.00	121.01	111.33
5	T	11	HIS	CB-CG-CD2	-8.00	120.80	131.20
2	B	286	ALA	N-CA-C	8.00	120.08	111.36
2	B	900	GLU	O-C-N	8.00	130.31	122.07
6	K	204	PRO	CA-C-N	8.00	131.34	120.54
6	K	204	PRO	C-N-CA	8.00	131.34	120.54
5	L	51	PHE	CA-CB-CG	8.00	121.80	113.80
5	S	11	HIS	CB-CG-ND1	8.00	134.70	122.70
6	V	264	SER	N-CA-C	8.00	120.91	111.71
1	A	444	ASP	N-CA-C	8.00	121.55	108.99
6	J	577	VAL	N-CA-C	8.00	118.10	110.42
4	D	264	SER	N-CA-CB	8.00	124.63	110.80
5	N	4	HIS	CB-CG-ND1	-8.00	110.71	122.70
2	B	1151	ALA	N-CA-C	7.99	127.83	110.80
2	B	1163	ALA	O-C-N	7.99	130.99	122.20
3	C	552	ASP	O-C-N	7.99	132.29	122.86
6	J	528	ALA	N-CA-C	7.99	127.83	110.80
5	Y	210	THR	N-CA-CB	7.99	121.66	110.07
6	V	324	GLY	O-C-N	7.99	128.98	122.51
5	F	24	LEU	N-CA-C	7.99	121.78	110.68
5	R	131	ARG	NE-CZ-NH2	7.99	126.39	119.20
1	A	1138	MET	N-CA-C	7.98	121.10	110.08
5	R	234	ARG	NE-CZ-NH1	-7.98	113.52	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	420	LEU	N-CA-C	7.98	123.37	109.96
6	P	500	SER	N-CA-C	7.98	119.98	111.28
6	W	319	THR	CA-C-O	-7.98	111.74	120.36
3	C	230	GLN	OE1-CD-NE2	-7.98	114.62	122.60
3	C	516	ARG	N-CA-C	7.98	119.98	111.28
5	R	234	ARG	N-CA-C	7.98	121.96	111.75
6	U	576	PHE	N-CA-C	7.98	120.69	111.11
5	R	132	THR	O-C-N	7.98	132.83	123.02
5	H	144	VAL	CA-C-O	-7.98	112.72	121.17
6	X	79	ARG	N-CA-CB	7.98	121.82	109.94
6	X	162	HIS	CE1-NE2-CD2	-7.98	101.02	109.00
1	A	852	VAL	CA-C-N	7.97	134.49	122.93
1	A	852	VAL	C-N-CA	7.97	134.49	122.93
2	B	692	THR	CA-C-O	7.97	129.21	120.92
6	I	224	ASP	CA-CB-CG	7.97	120.57	112.60
5	G	29	ARG	NE-CZ-NH2	7.97	126.38	119.20
5	R	59	HIS	CE1-NE2-CD2	-7.97	101.03	109.00
3	C	421	ASN	CA-CB-CG	7.97	120.57	112.60
4	D	147	MET	N-CA-C	7.97	122.84	113.20
5	H	78	ALA	CA-C-O	-7.97	112.02	120.63
1	A	630	GLN	N-CA-C	7.97	120.88	111.71
1	A	886	ASN	OD1-CG-ND2	-7.97	114.63	122.60
6	Q	100	LYS	CD-CE-NZ	7.97	137.40	111.90
2	B	879	PHE	CA-C-N	-7.97	109.77	121.24
2	B	879	PHE	C-N-CA	-7.97	109.77	121.24
6	U	162	HIS	CE1-NE2-CD2	-7.97	101.03	109.00
5	Y	152	HIS	ND1-CE1-NE2	7.97	116.37	108.40
5	M	11	HIS	CB-CG-CD2	-7.96	120.85	131.20
6	X	539	ILE	O-C-N	7.96	129.59	121.87
6	I	152	ARG	NE-CZ-NH1	-7.96	113.54	121.50
2	B	498	THR	N-CA-C	7.96	127.76	110.80
6	J	595	GLY	O-C-N	7.96	130.01	122.13
6	U	580	PRO	N-CA-C	7.96	125.61	113.75
6	V	217	ALA	N-CA-C	7.96	122.42	112.87
6	J	627	ARG	N-CA-C	7.96	119.96	111.28
4	E	51	LEU	O-C-N	7.96	128.56	121.32
6	Q	306	TRP	N-CA-C	7.96	122.83	113.20
5	R	112	ALA	O-C-N	7.96	128.84	121.04
6	V	562	TYR	CD1-CE1-CZ	7.96	133.92	119.60
1	A	485	ARG	N-CA-C	7.95	119.73	111.14
5	R	182	HIS	N-CA-C	7.95	122.40	111.90
2	B	1000	ALA	N-CA-C	7.95	127.74	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	247	SER	N-CA-C	7.95	127.73	110.80
6	V	528	ALA	N-CA-C	7.95	127.73	110.80
3	C	580	HIS	N-CA-C	7.95	122.41	112.87
5	G	182	HIS	N-CA-C	7.95	122.39	111.90
6	Q	168	THR	N-CA-C	7.95	123.11	113.41
6	W	298	PHE	CE1-CZ-CE2	7.95	134.31	120.00
6	X	106	ILE	N-CA-C	7.95	125.87	109.34
6	X	44	THR	N-CA-CB	7.95	125.01	111.50
5	F	44	GLY	O-C-N	7.95	133.03	122.70
5	F	131	ARG	NE-CZ-NH2	7.95	126.35	119.20
6	I	227	LEU	O-C-N	7.95	127.63	121.27
6	K	81	THR	N-CA-C	7.95	120.71	111.02
6	K	193	ILE	N-CA-C	-7.95	105.46	111.90
5	L	152	HIS	ND1-CE1-NE2	7.95	116.35	108.40
6	X	469	VAL	N-CA-C	7.95	119.68	110.62
6	X	38	PRO	O-C-N	7.94	130.76	122.18
6	V	282	VAL	CA-C-O	7.94	130.71	120.78
6	O	267	ALA	N-CA-C	7.94	120.64	111.11
2	B	392	ASP	CA-CB-CG	7.94	120.54	112.60
3	C	200	LEU	N-CA-C	7.94	122.17	108.76
3	C	207	LEU	CA-C-O	7.94	129.03	120.38
6	J	622	GLU	N-CA-C	7.94	120.01	111.36
5	M	11	HIS	N-CA-C	7.94	120.64	111.11
6	Q	38	PRO	O-C-N	7.94	130.75	122.18
6	U	122	THR	CA-C-O	-7.94	112.19	121.16
5	M	51	PHE	CA-CB-CG	7.94	121.74	113.80
6	U	81	THR	N-CA-C	7.93	120.70	111.02
1	A	1282	THR	N-CA-C	7.93	120.01	111.36
4	E	109	PRO	N-CA-C	7.93	120.37	110.70
6	V	271	LEU	O-C-N	7.93	133.13	122.59
2	B	1108	ASN	OD1-CG-ND2	-7.93	114.67	122.60
6	X	319	THR	CA-C-O	-7.93	111.80	120.36
1	A	193	THR	N-CA-CB	7.92	122.42	110.22
6	Q	63	ILE	O-C-N	7.92	131.03	122.63
6	Q	106	ILE	N-CA-C	7.92	125.82	109.34
3	C	760	SER	N-CA-C	7.92	120.82	111.71
6	P	528	ALA	N-CA-C	7.92	127.67	110.80
6	Q	267	ALA	N-CA-C	7.92	120.91	111.33
5	S	110	PHE	O-C-N	7.92	133.18	122.57
1	A	124	ASP	N-CA-C	7.92	119.54	111.07
6	I	389	ALA	N-CA-C	7.92	120.91	111.33
6	V	389	ALA	N-CA-C	7.92	120.91	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	D	211	LEU	CA-C-N	7.91	130.73	120.44
4	D	211	LEU	C-N-CA	7.91	130.73	120.44
6	J	501	ALA	N-CA-C	7.91	121.40	110.24
6	V	152	ARG	NE-CZ-NH1	-7.91	113.59	121.50
2	B	1025	ASN	N-CA-C	7.91	127.65	110.80
5	F	51	PHE	CA-CB-CG	7.91	121.71	113.80
5	M	15	ARG	NE-CZ-NH1	-7.91	113.59	121.50
5	M	210	THR	N-CA-CB	7.91	121.54	110.07
6	Q	324	GLY	O-C-N	7.91	128.92	122.51
6	U	168	THR	N-CA-C	7.91	123.06	113.41
6	Q	576	PHE	N-CA-C	7.91	120.60	111.11
2	B	635	GLN	N-CA-C	7.91	123.44	112.45
4	D	363	ALA	N-CA-C	7.91	120.90	111.33
4	E	4	ARG	NE-CZ-NH2	7.91	126.32	119.20
4	E	139	ASN	OD1-CG-ND2	-7.91	114.69	122.60
6	J	298	PHE	CB-CG-CD1	-7.91	107.26	120.70
5	N	182	HIS	N-CA-C	7.91	122.34	111.90
5	T	1	MET	CA-C-N	7.91	129.07	120.13
5	T	1	MET	C-N-CA	7.91	129.07	120.13
5	T	11	HIS	CA-C-O	7.91	129.36	120.90
3	C	698	SER	N-CA-C	7.91	120.80	111.71
2	B	440	ILE	N-CA-C	7.91	125.78	109.34
6	J	513	HIS	CE1-NE2-CD2	-7.91	101.09	109.00
5	T	15	ARG	NE-CZ-NH1	-7.90	113.60	121.50
4	E	316	THR	N-CA-CB	-7.90	98.07	109.85
6	K	630	LEU	N-CA-C	7.90	119.53	111.07
6	V	224	ASP	CA-CB-CG	7.90	120.50	112.60
6	J	169	MET	N-CA-C	7.90	122.61	112.34
6	J	324	GLY	O-C-N	7.90	128.91	122.51
1	A	107	GLN	N-CA-C	7.90	123.25	112.90
6	I	106	ILE	N-CA-C	7.90	125.77	109.34
6	I	123	ALA	O-C-N	7.90	131.19	122.11
6	I	586	VAL	O-C-N	7.90	132.44	122.57
6	J	389	ALA	N-CA-C	7.90	120.89	111.33
3	C	1103	TRP	CE2-CD2-CE3	7.90	126.70	118.80
6	P	147	ARG	CA-CB-CG	7.89	129.89	114.10
6	W	528	ALA	N-CA-C	7.89	127.61	110.80
3	C	673	ASN	N-CA-C	7.89	122.60	112.34
3	C	458	HIS	N-CA-C	7.89	122.01	112.38
1	A	775	ARG	NE-CZ-NH1	-7.89	113.61	121.50
3	C	22	VAL	N-CA-C	7.89	121.82	112.35
6	X	420	LEU	N-CA-C	7.89	123.21	109.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1180	LYS	N-CA-C	7.89	122.67	112.89
5	F	149	GLN	OE1-CD-NE2	7.89	130.49	122.60
6	K	297	ALA	CA-C-O	7.89	131.79	120.51
5	M	185	VAL	CB-CA-C	7.89	121.67	112.68
5	F	4	HIS	ND1-CE1-NE2	7.88	116.28	108.40
6	K	142	ILE	O-C-N	7.88	129.52	121.87
5	L	182	HIS	N-CA-C	7.88	122.31	111.90
6	Q	585	GLN	CB-CA-C	7.88	123.39	110.22
2	B	663	GLN	CG-CD-NE2	-7.88	104.58	116.40
5	L	144	VAL	CA-C-O	-7.88	112.81	121.17
5	L	191	LYS	O-C-N	7.88	131.44	122.22
6	J	283	SER	CA-C-O	7.88	129.14	120.63
6	P	160	GLN	CA-CB-CG	7.88	129.86	114.10
6	Q	528	ALA	N-CA-C	7.88	127.59	110.80
6	W	204	PRO	CA-C-N	7.88	131.18	120.54
6	W	204	PRO	C-N-CA	7.88	131.18	120.54
6	X	573	ALA	N-CA-C	7.88	120.57	111.11
1	A	1028	ILE	CB-CG1-CD1	7.88	130.35	113.80
5	F	110	PHE	O-C-N	7.88	133.19	122.48
6	P	562	TYR	CD1-CE1-CZ	7.88	133.78	119.60
6	Q	79	ARG	N-CA-CB	7.88	121.68	109.94
5	T	149	GLN	OE1-CD-NE2	7.88	130.48	122.60
6	W	580	PRO	N-CA-C	7.88	125.23	113.81
5	Y	1	MET	CA-C-N	7.88	129.68	119.84
5	Y	1	MET	C-N-CA	7.88	129.68	119.84
5	S	255	SER	N-CA-C	7.87	120.76	111.71
6	X	630	LEU	N-CA-C	7.87	119.50	111.07
6	X	539	ILE	N-CA-C	7.87	118.65	110.62
6	O	324	GLY	O-C-N	7.87	128.88	122.51
1	A	79	LEU	O-C-N	7.87	131.17	122.20
1	A	625	ARG	NE-CZ-NH2	7.87	126.28	119.20
6	K	528	ALA	N-CA-C	7.87	127.56	110.80
6	P	622	GLU	N-CA-C	7.87	119.94	111.36
5	R	11	HIS	CA-C-O	7.87	129.32	120.90
2	B	1144	ASP	N-CA-C	7.87	119.85	111.28
5	L	78	ALA	CA-C-O	-7.87	112.14	120.63
6	P	442	THR	N-CA-C	7.87	120.34	108.46
6	P	609	ARG	NE-CZ-NH2	7.86	126.28	119.20
6	W	162	HIS	CE1-NE2-CD2	-7.86	101.14	109.00
2	B	836	HIS	ND1-CG-CD2	7.86	113.96	106.10
6	K	154	ARG	NE-CZ-NH2	7.86	126.28	119.20
2	B	360	LEU	CA-C-O	-7.86	112.22	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	G	224	SER	CA-C-O	7.86	131.75	120.51
3	C	679	TRP	CG-CD2-CE3	-7.86	126.04	133.90
6	O	457	PRO	N-CA-CB	7.86	111.50	103.25
6	O	469	VAL	N-CA-C	7.86	119.58	110.62
5	R	255	SER	N-CA-C	7.86	120.75	111.71
1	A	215	ARG	NE-CZ-NH1	-7.86	113.64	121.50
4	D	369	HIS	CE1-NE2-CD2	-7.86	101.14	109.00
6	P	217	ALA	N-CA-C	7.85	122.30	112.87
6	P	412	ARG	CA-CB-CG	7.85	129.81	114.10
5	T	78	ALA	N-CA-C	7.85	120.83	111.33
1	A	816	ASN	OD1-CG-ND2	-7.85	114.75	122.60
2	B	384	MET	CA-CB-CG	-7.85	98.40	114.10
5	S	152	HIS	CE1-NE2-CD2	-7.85	101.15	109.00
1	A	1190	ARG	NE-CZ-NH1	-7.85	113.65	121.50
6	K	267	ALA	N-CA-C	7.85	120.53	111.11
3	C	801	ARG	NE-CZ-NH2	7.85	126.26	119.20
6	I	204	PRO	CA-C-N	7.85	131.13	120.54
6	I	204	PRO	C-N-CA	7.85	131.13	120.54
3	C	617	HIS	CA-CB-CG	7.85	121.65	113.80
3	C	1208	MET	N-CA-C	7.85	121.52	108.73
6	I	38	PRO	O-C-N	7.85	130.66	122.18
6	P	420	LEU	N-CA-C	7.85	123.14	109.96
6	J	49	ARG	CA-C-N	7.85	129.65	119.84
6	J	49	ARG	C-N-CA	7.85	129.65	119.84
5	N	110	PHE	O-C-N	7.85	133.15	122.48
3	C	203	SER	CA-C-O	7.84	128.69	119.67
6	P	121	ALA	N-CA-C	7.84	120.52	111.11
6	V	162	HIS	CE1-NE2-CD2	-7.84	101.16	109.00
3	C	607	HIS	CB-CG-CD2	-7.84	121.00	131.20
6	U	24	SER	N-CA-C	7.84	120.73	111.71
4	D	102	PRO	N-CA-CB	7.84	111.48	103.25
4	E	143	HIS	CB-CG-CD2	-7.84	121.01	131.20
5	N	78	ALA	CA-C-O	-7.84	112.16	120.63
5	S	259	HIS	CA-CB-CG	7.84	121.64	113.80
6	U	306	TRP	N-CA-C	7.84	122.69	113.20
2	B	1199	PHE	N-CA-C	7.84	121.74	108.02
3	C	958	HIS	CA-CB-CG	7.84	121.64	113.80
6	J	414	GLN	OE1-CD-NE2	7.84	130.44	122.60
5	L	142	ALA	N-CA-C	7.84	120.72	111.71
6	O	123	ALA	O-C-N	7.84	131.69	122.20
6	O	585	GLN	CB-CA-C	7.84	123.31	110.22
4	D	321	GLY	CA-C-O	-7.84	113.61	120.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	Q	420	LEU	N-CA-C	7.84	123.12	109.96
3	C	213	ALA	N-CA-C	7.83	127.48	110.80
6	U	500	SER	N-CA-C	7.83	119.82	111.28
6	V	142	ILE	O-C-N	7.83	129.47	121.87
1	A	557	ASP	CA-CB-CG	7.83	120.43	112.60
6	Q	391	ILE	N-CA-C	7.83	121.98	111.17
6	X	576	PHE	N-CA-C	7.83	120.51	111.11
1	A	68	TRP	CG-CD2-CE3	-7.83	126.07	133.90
1	A	533	ILE	CA-CB-CG2	7.83	123.81	110.50
2	B	897	ALA	O-C-N	7.83	131.07	122.15
2	B	956	HIS	ND1-CE1-NE2	-7.83	100.57	108.40
4	E	377	ASN	N-CA-C	7.83	124.27	113.16
5	R	44	GLY	O-C-N	7.82	132.87	122.70
5	T	152	HIS	ND1-CE1-NE2	7.82	116.22	108.40
6	V	420	LEU	N-CA-C	7.82	123.11	109.96
6	J	609	ARG	NE-CZ-NH2	7.82	126.24	119.20
1	A	158	TRP	O-C-N	7.82	132.91	122.43
3	C	294	ARG	NE-CZ-NH1	-7.82	113.68	121.50
6	K	59	ASP	N-CA-C	7.82	122.51	112.34
3	C	273	ALA	O-C-N	7.82	131.11	122.20
3	C	1066	MET	N-CA-C	7.82	120.70	111.71
6	V	585	GLN	CB-CA-C	7.82	123.28	110.22
3	C	429	ASN	CA-CB-CG	7.82	120.42	112.60
6	J	585	GLN	CB-CA-C	7.82	123.27	110.22
6	K	106	ILE	N-CA-C	7.82	125.60	109.34
6	Q	123	ALA	O-C-N	7.82	131.66	122.20
6	I	64	VAL	CB-CA-C	7.82	124.11	111.29
6	O	59	ASP	N-CA-C	7.82	121.75	111.75
6	Q	389	ALA	N-CA-C	7.82	120.79	111.33
5	F	210	THR	N-CA-CB	7.81	121.40	110.07
6	K	224	ASP	CA-CB-CG	7.81	120.41	112.60
6	X	123	ALA	O-C-N	7.81	131.65	122.20
6	J	160	GLN	CA-CB-CG	7.81	129.72	114.10
6	P	539	ILE	O-C-N	7.81	129.44	121.87
6	O	152	ARG	NE-CZ-NH1	-7.81	113.69	121.50
6	O	224	ASP	CA-CB-CG	7.81	120.41	112.60
6	Q	455	SER	N-CA-C	7.81	121.74	111.75
2	B	212	SER	N-CA-C	7.80	121.68	108.02
5	F	198	HIS	CA-CB-CG	7.80	121.61	113.80
3	C	1056	VAL	N-CA-C	7.80	125.57	109.34
5	T	110	PHE	O-C-N	7.80	133.09	122.48
3	C	529	TRP	O-C-N	7.80	130.39	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	768	GLN	OE1-CD-NE2	-7.80	114.80	122.60
6	Q	58	ILE	CB-CG1-CD1	7.80	130.18	113.80
2	B	375	ASN	CB-CG-ND2	-7.80	104.70	116.40
6	J	227	LEU	O-C-N	7.79	127.51	121.27
5	S	33	THR	CA-CB-OG1	7.79	121.29	109.60
6	V	298	PHE	CB-CG-CD1	-7.79	107.45	120.70
6	Q	81	THR	N-CA-C	7.79	120.53	111.02
5	S	11	HIS	CB-CG-CD2	-7.79	121.07	131.20
6	U	562	TYR	CD1-CE1-CZ	7.79	133.62	119.60
6	X	390	ASN	OD1-CG-ND2	-7.79	114.81	122.60
5	S	51	PHE	CA-CB-CG	7.79	121.59	113.80
2	B	873	GLN	N-CA-C	7.79	122.78	113.28
2	B	998	PRO	N-CA-CB	7.79	111.43	103.25
5	F	1	MET	CA-C-N	7.79	128.93	120.13
5	F	1	MET	C-N-CA	7.79	128.93	120.13
6	I	306	TRP	N-CA-C	7.79	122.62	113.20
6	P	64	VAL	CB-CA-C	7.79	124.06	111.29
2	B	530	LYS	N-CA-C	7.79	120.75	111.33
6	U	224	ASP	CA-CB-CG	7.79	120.39	112.60
1	A	1202	HIS	ND1-CG-CD2	7.79	113.89	106.10
6	I	595	GLY	O-C-N	7.79	129.84	122.13
6	P	414	GLN	OE1-CD-NE2	7.79	130.38	122.60
4	D	217	GLY	O-C-N	7.78	129.66	122.19
6	O	18	ASN	N-CA-C	7.78	121.56	109.96
6	U	455	SER	N-CA-C	7.78	121.71	111.75
6	J	412	ARG	CA-CB-CG	7.78	129.66	114.10
4	D	351	GLN	OE1-CD-NE2	-7.78	114.82	122.60
5	G	132	THR	O-C-N	7.78	132.59	123.02
6	W	469	VAL	N-CA-C	7.78	119.48	110.62
4	D	274	TRP	O-C-N	7.78	130.36	122.12
5	F	78	ALA	N-CA-C	7.78	120.74	111.33
6	J	630	LEU	N-CA-C	7.78	119.39	111.07
6	U	63	ILE	O-C-N	7.78	130.87	122.63
6	V	412	ARG	CA-CB-CG	7.78	129.65	114.10
5	S	152	HIS	ND1-CE1-NE2	7.77	116.17	108.40
3	C	710	ARG	N-CA-C	7.77	124.20	111.37
6	P	29	THR	N-CA-CB	7.77	123.63	110.49
5	L	255	SER	N-CA-C	7.77	120.65	111.71
6	X	194	LEU	N-CA-C	7.77	119.70	109.83
6	U	59	ASP	N-CA-C	7.77	121.70	111.75
2	B	210	ILE	N-CA-CB	7.77	122.08	111.21
4	D	246	ALA	N-CA-CB	7.77	121.50	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	576	PHE	N-CA-C	7.77	120.43	111.11
6	X	622	GLU	N-CA-C	7.77	119.83	111.36
1	A	350	PHE	O-C-N	7.77	127.89	121.83
1	A	1209	ASP	CA-CB-CG	7.76	120.36	112.60
6	X	59	ASP	N-CA-C	7.76	121.69	111.75
5	N	255	SER	N-CA-C	7.76	120.64	111.71
6	W	297	ALA	CA-C-O	7.76	131.61	120.51
2	B	1212	SER	CA-C-O	7.76	128.88	119.49
4	E	88	GLN	OE1-CD-NE2	-7.76	114.84	122.60
6	J	298	PHE	CE1-CZ-CE2	7.76	133.97	120.00
6	J	390	ASN	OD1-CG-ND2	-7.76	114.84	122.60
6	O	141	GLN	N-CA-C	7.76	119.38	111.07
5	S	142	ALA	N-CA-C	7.76	120.64	111.71
6	U	539	ILE	O-C-N	7.76	129.82	121.83
6	W	386	THR	N-CA-C	7.76	122.88	113.41
6	Q	24	SER	N-CA-C	7.76	120.63	111.71
6	U	264	SER	N-CA-C	7.76	120.63	111.71
3	C	499	THR	N-CA-C	7.76	119.37	111.07
6	K	168	THR	N-CA-C	7.76	122.87	113.41
6	K	411	VAL	CG1-CB-CG2	-7.76	93.74	110.80
6	V	160	GLN	CA-CB-CG	7.76	129.61	114.10
3	C	111	ILE	N-CA-C	7.75	119.40	108.93
1	A	118	LEU	O-C-N	7.75	130.15	122.09
6	Q	215	TYR	CA-C-N	7.75	127.81	119.28
6	Q	215	TYR	C-N-CA	7.75	127.81	119.28
1	A	1076	GLY	N-CA-C	7.75	124.92	115.31
1	A	181	TYR	O-C-N	7.75	132.90	122.59
2	B	1128	ILE	CA-C-O	-7.75	111.09	120.78
5	M	1	MET	CA-C-N	7.75	128.89	120.13
5	M	1	MET	C-N-CA	7.75	128.89	120.13
5	M	149	GLN	OE1-CD-NE2	7.75	130.35	122.60
5	M	255	SER	N-CA-C	7.75	120.62	111.71
2	B	696	ALA	CA-C-O	7.75	129.19	120.90
5	H	24	LEU	N-CA-C	7.75	121.45	110.68
5	S	72	SER	N-CA-C	7.75	120.70	111.33
6	V	455	SER	N-CA-C	7.75	121.67	111.75
5	S	234	ARG	NE-CZ-NH1	-7.75	113.75	121.50
1	A	989	HIS	CB-CG-CD2	-7.74	121.13	131.20
4	E	143	HIS	CE1-NE2-CD2	-7.74	101.26	109.00
6	K	306	TRP	N-CA-C	7.74	122.57	113.20
6	K	319	THR	CA-C-O	-7.74	112.00	120.36
5	M	24	LEU	N-CA-C	7.74	121.44	110.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	226	LYS	CA-C-O	7.74	130.08	121.02
5	G	51	PHE	CA-CB-CG	7.74	121.54	113.80
5	N	224	SER	CA-C-O	7.74	131.58	120.51
6	U	38	PRO	O-C-N	7.74	130.54	122.18
6	U	457	PRO	N-CA-CB	7.74	111.38	103.25
1	A	976	ALA	N-CA-C	7.74	119.80	111.36
1	A	1089	TYR	N-CA-C	7.74	120.66	108.67
6	O	420	LEU	N-CA-C	7.74	122.96	109.96
6	Q	283	SER	N-CA-C	7.74	120.69	111.33
6	U	420	LEU	N-CA-C	7.74	122.96	109.96
6	X	324	GLY	O-C-N	7.74	128.78	122.51
3	C	722	ASN	N-CA-C	7.74	122.40	113.19
3	C	209	ASN	CA-CB-CG	7.74	120.33	112.60
2	B	589	LEU	N-CA-C	7.73	119.79	111.36
4	E	306	PRO	O-C-N	7.73	132.39	123.03
5	H	132	THR	O-C-N	7.73	132.53	123.02
6	O	455	SER	N-CA-C	7.73	121.65	111.75
6	V	58	ILE	CB-CG1-CD1	7.73	130.04	113.80
6	J	455	SER	N-CA-C	7.73	121.64	111.75
6	K	455	SER	N-CA-C	7.73	121.64	111.75
6	O	630	LEU	N-CA-C	7.73	119.34	111.07
6	V	580	PRO	N-CA-C	7.73	125.27	113.75
6	J	38	PRO	O-C-N	7.73	130.53	122.18
6	O	319	THR	CA-C-O	-7.73	112.01	120.36
4	E	68	VAL	N-CA-CB	7.73	120.13	110.47
1	A	620	VAL	CA-C-O	7.73	128.50	120.39
4	D	333	MET	N-CA-C	7.73	119.70	111.28
6	J	79	ARG	N-CA-CB	7.73	121.45	109.94
6	P	630	LEU	N-CA-C	7.72	119.34	111.07
6	Q	297	ALA	CA-C-O	7.72	131.56	120.51
1	A	197	HIS	ND1-CE1-NE2	7.72	116.12	108.40
6	Q	59	ASP	N-CA-C	7.72	121.63	111.75
6	X	227	LEU	O-C-N	7.72	127.45	121.27
3	C	241	ASN	CA-CB-CG	7.72	120.32	112.60
6	V	469	VAL	N-CA-C	7.72	119.42	110.62
6	Q	162	HIS	CE1-NE2-CD2	-7.72	101.28	109.00
1	A	81	TYR	O-C-N	7.72	130.02	122.07
3	C	127	SER	CA-CB-OG	7.72	126.53	111.10
6	J	106	ILE	N-CA-C	7.72	125.39	109.34
6	W	106	ILE	N-CA-C	7.72	125.39	109.34
6	X	32	PRO	N-CA-CB	7.72	111.49	103.23
5	H	234	ARG	NE-CZ-NH1	-7.71	113.79	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1142	ARG	NE-CZ-NH1	-7.71	113.79	121.50
1	A	1191	ASP	CA-CB-CG	7.71	120.31	112.60
5	G	78	ALA	CA-C-O	-7.71	112.30	120.63
6	P	152	ARG	NE-CZ-NH1	-7.71	113.79	121.50
5	T	255	SER	N-CA-C	7.71	120.58	111.71
6	V	227	LEU	O-C-N	7.71	127.44	121.27
6	V	169	MET	N-CA-C	7.71	122.36	112.34
2	B	667	ASN	N-CA-C	7.71	127.22	110.80
3	C	24	ALA	O-C-N	7.71	130.29	122.12
5	F	224	SER	CA-C-O	7.71	131.53	120.51
6	O	64	VAL	CB-CA-C	7.71	123.93	111.29
5	F	152	HIS	ND1-CE1-NE2	7.71	116.11	108.40
5	H	51	PHE	CA-CB-CG	7.71	121.51	113.80
5	G	112	ALA	O-C-N	7.71	128.59	121.04
2	B	460	VAL	CA-CB-CG1	7.70	123.50	110.40
5	N	152	HIS	ND1-CE1-NE2	7.70	116.10	108.40
6	P	306	TRP	N-CA-C	7.70	122.52	113.20
1	A	126	LEU	N-CA-C	7.70	121.61	111.75
1	A	737	SER	N-CA-C	7.70	119.68	111.28
2	B	285	ASN	N-CA-C	7.70	127.20	110.80
2	B	352	THR	CA-CB-OG1	7.70	121.15	109.60
3	C	410	HIS	ND1-CE1-NE2	7.70	116.10	108.40
6	O	226	LYS	CA-C-O	7.70	130.03	121.02
3	C	858	VAL	O-C-N	7.70	129.76	121.83
4	E	314	ASN	N-CA-C	7.70	120.64	111.33
6	U	18	ASN	N-CA-C	7.70	121.43	109.96
6	O	612	SER	CB-CA-C	7.70	124.61	111.68
6	X	455	SER	N-CA-C	7.70	121.60	111.75
3	C	189	ASN	CB-CG-ND2	7.70	127.94	116.40
4	D	312	VAL	N-CA-C	7.70	118.43	108.12
5	H	234	ARG	NE-CZ-NH2	7.70	126.13	119.20
6	I	455	SER	N-CA-C	7.70	121.60	111.75
6	Q	249	VAL	N-CA-C	7.70	119.56	108.48
3	C	409	MET	N-CA-C	7.69	122.10	112.87
6	U	389	ALA	N-CA-C	7.69	120.64	111.33
2	B	450	ASP	N-CA-CB	-7.69	98.37	110.22
3	C	835	HIS	N-CA-C	7.69	119.30	111.07
3	C	1096	GLU	CB-CG-CD	7.69	125.68	112.60
4	E	404	VAL	O-C-N	7.69	129.45	121.91
6	I	283	SER	CA-C-O	7.69	128.94	120.63
6	V	18	ASN	N-CA-C	7.69	121.42	109.96
4	D	185	LEU	N-CA-C	7.69	119.66	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	U	282	VAL	CA-C-O	7.69	130.39	120.78
1	A	763	ARG	NE-CZ-NH2	7.69	126.12	119.20
6	J	306	TRP	N-CA-C	7.69	122.50	113.20
4	E	18	ALA	N-CA-C	7.69	115.14	108.22
6	K	58	ILE	CB-CG1-CD1	7.69	129.94	113.80
6	O	586	VAL	O-C-N	7.69	132.18	122.57
6	O	264	SER	N-CA-C	7.68	120.55	111.71
6	U	442	THR	N-CA-C	7.68	120.06	108.46
6	V	64	VAL	CB-CA-C	7.68	123.89	111.29
3	C	754	GLU	CB-CA-C	7.68	123.49	110.74
4	D	191	ARG	N-CA-C	7.68	119.66	111.28
5	N	33	THR	CA-CB-OG1	7.68	121.12	109.60
5	T	259	HIS	CA-CB-CG	7.68	121.48	113.80
2	B	912	ALA	N-CA-C	7.68	119.29	111.07
6	I	630	LEU	N-CA-C	7.68	119.29	111.07
6	X	81	THR	N-CA-C	7.68	120.39	111.02
5	L	236	ALA	N-CA-C	7.68	119.28	111.07
6	O	63	ILE	O-C-N	7.68	130.77	122.63
5	N	24	LEU	N-CA-C	7.68	121.35	110.68
6	W	282	VAL	CA-C-O	7.68	130.38	120.78
6	X	386	THR	N-CA-C	7.68	122.78	113.41
2	B	449	GLU	CA-C-N	-7.67	109.23	120.28
2	B	449	GLU	C-N-CA	-7.67	109.23	120.28
2	B	784	LEU	N-CA-C	7.67	121.62	109.50
2	B	903	HIS	N-CA-C	7.67	120.32	111.11
3	C	54	VAL	N-CA-CB	7.67	121.44	112.15
6	P	386	THR	N-CA-C	7.67	122.77	113.41
6	P	455	SER	N-CA-C	7.67	121.58	111.75
1	A	235	TYR	N-CA-C	7.67	122.27	111.30
1	A	605	THR	N-CA-CB	7.67	122.26	110.14
6	P	106	ILE	N-CA-C	7.67	125.29	109.34
6	J	530	ARG	N-CA-CB	7.67	123.45	110.49
5	G	255	SER	N-CA-C	7.67	120.53	111.71
6	J	81	THR	N-CA-C	7.67	120.37	111.02
6	U	586	VAL	O-C-N	7.67	132.15	122.57
5	Y	51	PHE	CA-CB-CG	7.67	121.47	113.80
5	Y	234	ARG	NE-CZ-NH2	7.67	126.10	119.20
2	B	452	ARG	NE-CZ-NH1	-7.66	113.84	121.50
4	E	2	ALA	N-CA-C	7.66	122.21	113.01
6	O	49	ARG	CA-C-N	7.66	129.42	119.84
6	O	49	ARG	C-N-CA	7.66	129.42	119.84
5	R	234	ARG	NE-CZ-NH2	7.66	126.09	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	T	180	HIS	N-CA-C	7.66	118.99	109.57
1	A	942	SER	O-C-N	7.66	132.29	122.87
5	G	198	HIS	CA-CB-CG	7.66	121.46	113.80
6	O	58	ILE	CB-CG1-CD1	7.66	129.89	113.80
6	Q	224	ASP	CA-CB-CG	7.66	120.26	112.60
5	T	24	LEU	N-CA-C	7.66	121.33	110.68
5	Y	224	SER	CA-C-O	7.66	131.46	120.51
6	K	264	SER	N-CA-C	7.66	120.52	111.71
6	Q	226	LYS	CA-C-O	7.66	129.98	121.02
5	S	78	ALA	N-CA-C	7.66	120.59	111.33
5	S	132	THR	O-C-N	7.66	132.44	123.02
4	D	299	LEU	N-CA-C	7.66	127.11	110.80
5	H	125	ILE	N-CA-C	7.66	125.26	109.34
6	J	152	ARG	NE-CZ-NH1	-7.66	113.84	121.50
5	M	105	ASP	CA-CB-CG	7.66	120.26	112.60
6	U	55	VAL	CA-CB-CG1	-7.66	97.39	110.40
2	B	1181	THR	N-CA-C	7.65	121.91	109.59
6	V	81	THR	O-C-N	7.65	129.99	122.03
2	B	429	ASN	N-CA-C	7.65	122.07	109.06
2	B	303	GLN	N-CA-C	7.65	120.51	111.71
4	D	411	PHE	CA-CB-CG	-7.65	106.15	113.80
5	G	144	VAL	CA-C-O	-7.65	113.06	121.17
6	I	420	LEU	N-CA-C	7.65	122.81	109.96
6	J	168	THR	N-CA-C	7.65	122.74	113.41
5	R	110	PHE	O-C-N	7.65	132.82	122.57
5	S	24	LEU	N-CA-C	7.65	121.31	110.68
4	E	11	TYR	N-CA-C	7.65	120.95	109.25
1	A	23	LEU	N-CA-C	7.65	120.74	109.50
2	B	207	LEU	N-CA-C	7.65	121.68	108.76
6	K	18	ASN	N-CA-C	7.65	121.36	109.96
6	K	313	SER	CA-CB-OG	7.65	126.39	111.10
5	R	51	PHE	CA-CB-CG	7.65	121.45	113.80
6	W	227	LEU	O-C-N	7.65	127.39	121.27
6	X	224	ASP	CA-CB-CG	7.65	120.25	112.60
2	B	344	TYR	O-C-N	-7.65	114.67	121.17
6	I	226	LYS	CA-C-O	7.65	129.97	121.02
5	R	147	HIS	CG-CD2-NE2	7.65	114.85	107.20
5	F	112	ALA	O-C-N	7.64	128.53	121.04
6	I	585	GLN	CB-CA-C	7.64	122.99	110.22
3	C	1168	ARG	NE-CZ-NH2	7.64	126.08	119.20
6	Q	81	THR	O-C-N	7.64	130.26	122.08
4	E	35	ARG	NE-CZ-NH1	-7.64	113.86	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	60	PRO	N-CA-CB	7.64	110.44	103.34
4	D	69	ASN	O-C-N	7.64	130.04	122.09
6	K	217	ALA	N-CA-C	7.64	122.04	112.87
6	Q	630	LEU	N-CA-C	7.64	119.24	111.07
5	R	125	ILE	N-CA-C	7.64	125.23	109.34
5	S	59	HIS	CE1-NE2-CD2	-7.64	101.36	109.00
5	F	234	ARG	NE-CZ-NH1	-7.64	113.86	121.50
6	U	91	MET	N-CA-CB	7.64	121.98	110.22
3	C	583	VAL	O-C-N	7.64	129.84	121.90
5	H	11	HIS	N-CA-C	7.64	120.27	111.11
5	N	144	VAL	CA-C-O	-7.64	113.08	121.17
5	Y	147	HIS	CG-CD2-NE2	7.64	114.84	107.20
6	K	48	TRP	N-CA-C	7.63	121.56	109.65
6	Q	194	LEU	N-CA-C	7.63	119.34	109.64
5	R	198	HIS	CA-CB-CG	7.63	121.44	113.80
6	X	247	SER	N-CA-C	7.63	120.49	111.71
6	I	622	GLU	N-CA-C	7.63	119.68	111.36
6	V	59	ASP	N-CA-C	7.63	121.52	111.75
4	D	12	ASN	CB-CG-ND2	-7.63	104.95	116.40
5	G	234	ARG	NE-CZ-NH1	-7.63	113.87	121.50
5	T	78	ALA	CA-C-O	-7.63	112.39	120.63
5	M	142	ALA	N-CA-C	7.63	120.48	111.71
6	O	28	SER	O-C-N	-7.63	112.44	122.59
6	P	264	SER	N-CA-C	7.63	120.48	111.71
6	W	168	THR	CA-CB-CG2	7.63	123.47	110.50
6	P	91	MET	N-CA-CB	7.63	121.97	110.22
5	N	180	HIS	N-CA-C	7.62	118.95	109.57
6	O	466	VAL	CB-CA-C	7.62	123.58	111.69
2	B	609	THR	N-CA-C	7.62	121.89	112.59
6	U	585	GLN	CB-CA-C	7.62	122.95	110.22
5	H	78	ALA	N-CA-C	7.62	120.55	111.33
6	V	249	VAL	N-CA-C	7.62	119.45	108.48
1	A	485	ARG	NE-CZ-NH1	-7.62	113.88	121.50
5	M	78	ALA	CA-C-O	-7.62	112.40	120.63
4	E	65	ASN	CA-CB-CG	7.62	120.22	112.60
5	F	132	THR	O-C-N	7.62	132.39	123.02
6	I	49	ARG	CA-C-N	7.62	129.36	119.84
6	I	49	ARG	C-N-CA	7.62	129.36	119.84
6	Q	160	GLN	CA-CB-CG	7.62	129.33	114.10
5	Y	131	ARG	NE-CZ-NH2	7.62	126.06	119.20
4	E	192	PHE	O-C-N	7.61	132.72	122.59
6	K	91	MET	N-CA-CB	7.61	121.94	110.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	298	PHE	CB-CG-CD1	-7.61	107.76	120.70
5	T	125	ILE	N-CA-C	7.61	125.18	109.34
3	C	761	VAL	N-CA-C	7.61	124.50	113.16
3	C	1169	TRP	CD2-CE2-CZ2	-7.61	114.79	122.40
6	Q	313	SER	CA-CB-OG	7.61	126.32	111.10
6	Q	604	VAL	N-CA-C	7.61	119.30	110.62
6	I	457	PRO	N-CA-CB	7.61	111.24	103.25
5	N	112	ALA	O-C-N	7.61	128.50	121.04
5	R	144	VAL	CA-C-O	-7.61	113.11	121.17
2	B	1142	ASN	N-CA-C	7.61	122.69	112.88
3	C	716	ASN	N-CA-C	7.61	119.57	111.28
5	F	59	HIS	CE1-NE2-CD2	-7.61	101.39	109.00
6	V	141	GLN	N-CA-C	7.61	119.21	111.07
1	A	142	PRO	N-CA-C	7.60	124.83	113.81
1	A	339	ARG	N-CA-C	7.60	119.57	111.28
1	A	471	ALA	N-CA-C	7.60	120.53	111.33
2	B	686	ARG	NE-CZ-NH2	7.60	126.04	119.20
5	G	125	ILE	N-CA-C	7.60	125.15	109.34
6	Q	466	VAL	CB-CA-C	7.60	123.55	111.69
5	F	72	SER	N-CA-C	7.60	120.53	111.33
6	V	194	LEU	N-CA-C	7.60	119.29	109.64
3	C	90	VAL	N-CA-C	7.60	117.71	110.42
3	C	321	VAL	N-CA-C	7.60	125.14	109.34
6	P	38	PRO	O-C-N	7.60	130.38	122.18
3	C	157	ILE	N-CA-C	7.60	125.14	109.34
3	C	306	LEU	N-CA-C	7.60	119.20	111.07
6	I	298	PHE	CE1-CZ-CE2	7.60	133.67	120.00
2	B	954	PRO	CA-CB-CG	-7.59	90.07	104.50
6	I	28	SER	O-C-N	-7.59	112.49	122.59
6	I	576	PHE	N-CA-C	7.59	120.22	111.11
6	I	192	ASP	CA-CB-CG	7.59	120.19	112.60
6	V	530	ARG	N-CA-CB	7.59	123.32	110.49
6	X	58	ILE	CB-CG1-CD1	7.59	129.74	113.80
3	C	280	ARG	CA-CB-CG	7.59	129.28	114.10
4	E	338	HIS	CE1-NE2-CD2	-7.59	101.41	109.00
6	W	430	THR	N-CA-C	7.59	120.51	111.33
5	S	25	TYR	CA-CB-CG	7.59	127.56	113.90
6	U	194	LEU	N-CA-C	7.58	119.27	109.64
6	W	58	ILE	CB-CG1-CD1	7.58	129.73	113.80
4	D	275	GLN	N-CA-C	7.58	126.95	110.80
5	S	131	ARG	NE-CZ-NH2	7.58	126.02	119.20
6	X	20	PHE	O-C-N	7.58	132.68	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	Y	132	THR	O-C-N	7.58	132.35	123.02
5	L	11	HIS	N-CA-C	7.58	120.21	111.11
6	X	79	ARG	N-CA-C	7.58	120.21	111.11
1	A	1166	CYS	N-CA-C	7.58	120.59	109.07
2	B	1172	LEU	N-CA-C	7.58	120.61	111.82
6	I	215	TYR	CA-C-N	7.58	127.62	119.28
6	I	215	TYR	C-N-CA	7.58	127.62	119.28
6	J	24	SER	N-CA-C	7.58	120.42	111.71
4	E	4	ARG	NE-CZ-NH1	-7.58	113.92	121.50
1	A	550	ARG	N-CA-C	7.58	121.16	108.20
5	L	224	SER	CA-C-O	7.58	131.34	120.51
4	E	366	ILE	CA-C-O	-7.57	113.19	121.29
6	P	573	ALA	CA-C-N	7.57	130.29	120.44
6	P	573	ALA	C-N-CA	7.57	130.29	120.44
5	R	29	ARG	NE-CZ-NH2	7.57	126.02	119.20
5	Y	78	ALA	N-CA-C	7.57	120.49	111.33
2	B	204	PHE	O-C-N	7.57	132.51	123.27
4	E	215	TRP	N-CA-C	7.57	119.32	111.14
5	G	4	HIS	CB-CG-ND1	-7.57	111.34	122.70
6	X	64	VAL	CB-CA-C	7.57	123.71	111.29
1	A	970	PRO	N-CA-C	7.57	124.79	113.81
6	K	442	THR	N-CA-C	7.57	119.89	108.46
6	V	24	SER	N-CA-C	7.57	120.42	111.71
6	J	20	PHE	O-C-N	7.57	132.66	122.82
6	U	106	ILE	N-CA-C	7.57	125.08	109.34
3	C	831	LEU	CA-C-O	7.57	128.41	120.54
6	Q	430	THR	N-CA-C	7.57	120.48	111.33
6	X	264	SER	N-CA-C	7.57	120.41	111.71
1	A	782	THR	OG1-CB-CG2	7.56	124.42	109.30
3	C	450	ASP	CA-CB-CG	7.56	120.16	112.60
6	J	58	ILE	CB-CG1-CD1	7.56	129.68	113.80
6	J	194	LEU	N-CA-C	7.56	119.25	109.64
1	A	119	GLY	CA-C-N	7.56	130.75	120.54
1	A	119	GLY	C-N-CA	7.56	130.75	120.54
3	C	1050	ASP	CA-C-O	-7.56	111.73	120.20
6	X	389	ALA	N-CA-C	7.56	120.48	111.33
5	Y	125	ILE	N-CA-C	7.56	125.07	109.34
2	B	921	ASP	O-C-N	7.56	132.65	122.59
6	J	64	VAL	CB-CA-C	7.56	123.68	111.29
5	N	78	ALA	N-CA-C	7.56	120.47	111.33
5	N	234	ARG	NE-CZ-NH1	-7.56	113.94	121.50
6	Q	442	THR	N-CA-C	7.56	119.87	108.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	V	306	TRP	N-CA-C	7.56	122.34	113.20
6	W	123	ALA	O-C-N	7.56	130.80	122.11
3	C	777	ASN	OD1-CG-ND2	-7.56	115.04	122.60
5	H	238	TYR	N-CA-C	7.56	120.84	108.52
5	M	25	TYR	CA-CB-CG	7.56	127.50	113.90
1	A	415	ASP	CA-CB-CG	7.55	120.15	112.60
2	B	1176	ASN	O-C-N	7.55	131.06	122.22
2	B	1176	ASN	N-CA-C	7.55	120.40	111.71
6	P	224	ASP	CA-CB-CG	7.55	120.15	112.60
6	W	389	ALA	N-CA-C	7.55	120.47	111.33
1	A	830	HIS	CE1-NE2-CD2	-7.55	101.45	109.00
5	M	59	HIS	CE1-NE2-CD2	-7.55	101.45	109.00
3	C	1145	SER	N-CA-C	7.55	121.59	112.38
6	U	313	SER	CA-CB-OG	7.55	126.20	111.10
6	U	612	SER	CB-CA-C	7.55	124.37	111.68
6	X	24	SER	N-CA-C	7.55	120.39	111.71
5	Y	11	HIS	N-CA-C	7.55	120.17	111.11
4	E	353	ALA	N-CA-CB	-7.55	98.74	110.06
1	A	1029	ASP	CA-CB-CG	-7.55	105.05	112.60
3	C	912	ALA	N-CA-C	7.55	120.46	111.33
6	U	79	ARG	N-CA-CB	7.55	121.19	109.94
2	B	860	THR	N-CA-C	7.54	120.16	111.11
6	U	81	THR	O-C-N	7.54	130.15	122.08
6	W	224	ASP	CA-CB-CG	7.54	120.14	112.60
5	F	21	ARG	NE-CZ-NH1	-7.54	113.96	121.50
1	A	574	THR	N-CA-C	7.54	120.94	108.96
5	F	255	SER	N-CA-C	7.54	120.38	111.71
5	H	112	ALA	O-C-N	7.54	128.43	121.04
1	A	1006	SER	CA-C-O	-7.54	112.71	120.09
6	K	152	ARG	NE-CZ-NH1	-7.54	113.96	121.50
6	X	91	MET	N-CA-CB	7.54	121.83	110.22
1	A	869	PRO	N-CA-CB	7.53	111.16	103.25
5	H	110	PHE	O-C-N	7.53	132.67	122.57
2	B	417	VAL	O-C-N	7.53	129.29	121.91
5	F	105	ASP	CA-CB-CG	7.53	120.13	112.60
3	C	133	SER	N-CA-C	7.53	120.44	111.33
5	Y	236	ALA	N-CA-C	7.53	119.13	111.07
2	B	775	VAL	N-CA-C	7.53	117.47	106.55
1	A	535	ALA	CA-C-O	-7.53	112.49	120.92
3	C	494	THR	O-C-N	-7.53	114.32	122.07
3	C	87	ILE	N-CA-CB	7.52	120.77	110.54
6	I	63	ILE	O-C-N	7.52	130.60	122.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	D	154	GLY	CA-C-N	7.52	127.53	119.78
4	D	154	GLY	C-N-CA	7.52	127.53	119.78
5	T	234	ARG	NE-CZ-NH2	7.52	125.97	119.20
6	V	185	SER	N-CA-CB	7.52	121.15	109.94
4	E	279	VAL	N-CA-C	7.52	124.98	109.34
5	N	131	ARG	NE-CZ-NH2	7.52	125.97	119.20
6	P	227	LEU	O-C-N	7.52	127.29	121.27
6	Q	204	PRO	CA-C-N	7.52	130.69	120.54
6	Q	204	PRO	C-N-CA	7.52	130.69	120.54
2	B	459	LEU	N-CA-C	7.52	119.47	111.28
5	M	234	ARG	NE-CZ-NH2	7.52	125.97	119.20
5	L	234	ARG	NE-CZ-NH1	-7.51	113.98	121.50
5	N	11	HIS	N-CA-C	7.51	120.13	111.11
1	A	484	ASP	CA-CB-CG	-7.51	105.09	112.60
6	J	510	VAL	O-C-N	7.51	129.27	121.91
6	I	442	THR	N-CA-C	7.51	119.80	108.46
5	M	72	SER	N-CA-C	7.51	120.12	111.11
6	P	604	VAL	N-CA-C	7.51	119.18	110.62
4	E	40	ARG	N-CA-C	7.51	120.42	111.33
5	L	219	HIS	CE1-NE2-CD2	-7.51	101.49	109.00
6	P	298	PHE	CE1-CZ-CE2	7.51	133.52	120.00
1	A	1057	PRO	N-CA-CB	7.51	111.13	103.25
5	F	198	HIS	CE1-NE2-CD2	-7.51	101.49	109.00
6	I	421	HIS	ND1-CE1-NE2	7.50	115.90	108.40
6	O	442	THR	N-CA-C	7.50	119.79	108.46
5	S	136	ASP	CA-CB-CG	7.50	120.10	112.60
6	V	123	ALA	O-C-N	7.50	131.28	122.20
6	J	430	THR	N-CA-C	7.50	120.41	111.33
6	O	474	THR	CA-CB-OG1	7.50	120.85	109.60
6	I	313	SER	CA-CB-OG	7.50	126.10	111.10
4	E	322	VAL	O-C-N	7.50	130.59	122.57
5	M	29	ARG	NE-CZ-NH2	7.50	125.95	119.20
6	V	390	ASN	OD1-CG-ND2	-7.50	115.10	122.60
5	F	113	PRO	O-C-N	7.50	131.50	123.10
5	M	147	HIS	CG-CD2-NE2	7.50	114.70	107.20
6	W	160	GLN	CA-CB-CG	7.50	129.09	114.10
5	T	221	LEU	CA-C-O	-7.49	112.98	120.70
3	C	777	ASN	N-CA-C	7.49	120.51	111.82
6	J	313	SER	CA-CB-OG	7.49	126.08	111.10
5	N	72	SER	N-CA-C	7.49	120.10	111.11
6	V	609	ARG	NE-CZ-NH2	7.49	125.94	119.20
2	B	896	ALA	CA-C-O	7.49	128.68	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	E	64	ARG	N-CA-C	7.49	119.52	111.36
6	J	226	LYS	CA-C-O	7.49	129.78	121.02
5	N	21	ARG	NE-CZ-NH1	-7.49	114.01	121.50
6	X	585	GLN	O-C-N	7.49	131.74	123.13
3	C	78	ILE	N-CA-C	7.49	118.15	108.12
3	C	652	GLN	N-CA-C	7.49	119.50	110.07
5	G	239	GLY	CA-C-O	-7.49	110.82	121.52
6	O	282	VAL	CA-C-O	7.49	130.14	120.78
6	W	249	VAL	N-CA-C	7.49	119.26	108.48
1	A	1242	PRO	CA-C-N	7.48	134.60	121.80
1	A	1242	PRO	C-N-CA	7.48	134.60	121.80
6	I	161	LYS	N-CA-CB	-7.48	98.79	109.94
6	W	573	ALA	CA-C-N	7.48	130.17	120.44
6	W	573	ALA	C-N-CA	7.48	130.17	120.44
5	F	28	THR	CA-CB-CG2	7.48	123.22	110.50
6	O	618	THR	O-C-N	7.48	130.08	122.08
6	U	28	SER	O-C-N	-7.48	112.64	122.59
5	Y	59	HIS	CE1-NE2-CD2	-7.48	101.52	109.00
4	D	26	LEU	N-CA-CB	-7.48	99.09	110.16
1	A	68	TRP	CE2-CD2-CE3	7.48	126.28	118.80
4	E	115	ALA	N-CA-C	7.48	121.35	110.28
5	L	4	HIS	ND1-CG-CD2	7.48	113.58	106.10
1	A	1105	PRO	N-CA-CB	7.48	109.94	103.36
5	G	131	ARG	NE-CZ-NH2	7.48	125.93	119.20
6	X	142	ILE	O-C-N	7.48	129.12	121.87
6	U	215	TYR	CA-C-N	7.47	127.50	119.28
6	U	215	TYR	C-N-CA	7.47	127.50	119.28
6	W	562	TYR	CB-CG-CD1	-7.47	109.59	120.80
6	X	625	ARG	NE-CZ-NH2	7.47	125.93	119.20
6	P	576	PHE	N-CA-C	7.47	120.08	111.11
6	U	227	LEU	O-C-N	7.47	127.25	121.27
6	P	319	THR	CA-C-O	-7.47	112.29	120.36
3	C	705	ILE	N-CA-C	7.47	117.59	110.42
4	E	316	THR	CB-CA-C	7.47	121.84	109.89
6	K	604	VAL	N-CA-C	7.47	119.13	110.62
2	B	509	SER	CA-C-N	7.47	127.00	119.24
2	B	509	SER	C-N-CA	7.47	127.00	119.24
2	B	617	HIS	CA-C-N	7.47	129.17	119.84
2	B	617	HIS	C-N-CA	7.47	129.17	119.84
3	C	528	PHE	CA-CB-CG	7.47	121.27	113.80
6	X	18	ASN	N-CA-C	7.47	121.08	109.96
6	X	197	ASP	N-CA-C	7.47	121.83	112.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	X	546	GLN	N-CA-C	7.47	120.30	111.71
1	A	1032	THR	CA-C-O	-7.46	113.71	120.13
5	H	255	SER	N-CA-C	7.46	120.29	111.71
5	H	72	SER	N-CA-C	7.46	120.06	111.11
6	U	319	THR	CA-C-O	-7.46	112.30	120.36
2	B	789	ASP	CA-C-O	-7.46	111.81	119.49
6	Q	18	ASN	N-CA-C	7.46	121.08	109.96
6	V	430	THR	N-CA-C	7.46	120.36	111.33
4	E	5	GLN	OE1-CD-NE2	-7.46	115.14	122.60
5	F	136	ASP	CA-CB-CG	7.46	120.06	112.60
5	F	142	ALA	N-CA-C	7.46	120.28	111.71
6	K	298	PHE	CB-CG-CD1	-7.46	108.02	120.70
6	Q	141	GLN	N-CA-C	7.46	119.05	111.07
6	V	386	THR	N-CA-C	7.46	122.51	113.41
1	A	777	VAL	N-CA-C	7.45	115.58	107.60
5	S	236	ALA	N-CA-C	7.45	119.09	110.97
1	A	111	ARG	N-CA-C	7.45	120.55	109.59
5	H	224	SER	CA-C-O	7.45	131.17	120.51
3	C	304	PHE	N-CA-C	7.45	119.40	111.28
3	C	849	ALA	CA-C-O	7.45	126.94	118.97
6	Q	64	VAL	CB-CA-C	7.45	123.51	111.29
6	X	442	THR	N-CA-C	7.45	119.71	108.46
6	J	141	GLN	N-CA-C	7.45	119.04	111.07
5	L	37	HIS	ND1-CE1-NE2	7.45	115.85	108.40
5	S	125	ILE	N-CA-C	7.45	124.83	109.34
3	C	1040	ASP	CA-CB-CG	-7.45	105.15	112.60
6	U	430	THR	N-CA-C	7.45	120.34	111.33
1	A	196	LYS	CA-C-N	7.45	131.86	119.35
1	A	196	LYS	C-N-CA	7.45	131.86	119.35
3	C	1048	PRO	CB-CA-C	7.45	121.39	111.71
6	K	215	TYR	CA-C-N	7.45	127.47	119.28
6	K	215	TYR	C-N-CA	7.45	127.47	119.28
6	P	162	HIS	CE1-NE2-CD2	-7.45	101.55	109.00
6	X	215	TYR	CA-C-N	7.45	127.47	119.28
6	X	215	TYR	C-N-CA	7.45	127.47	119.28
4	E	389	PHE	CA-CB-CG	7.44	121.24	113.80
5	R	142	ALA	N-CA-C	7.44	120.27	111.71
6	X	493	GLN	CA-C-O	7.44	130.31	120.11
2	B	1134	HIS	CA-CB-CG	7.44	121.24	113.80
3	C	859	ILE	N-CA-C	7.44	118.17	110.36
4	E	125	TYR	CB-CG-CD2	7.44	131.96	120.80
5	L	132	THR	O-C-N	7.44	132.17	123.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	O	91	MET	N-CA-CB	7.44	121.68	110.22
6	O	161	LYS	N-CA-CB	-7.44	98.85	109.94
6	O	215	TYR	CA-C-N	7.44	127.47	119.28
6	O	215	TYR	C-N-CA	7.44	127.47	119.28
6	P	24	SER	N-CA-C	7.44	120.27	111.71
5	M	224	SER	CA-C-O	7.44	131.15	120.51
4	E	141	ASP	CA-C-O	-7.44	112.94	120.90
6	P	561	ASP	O-C-N	7.44	132.48	122.59
2	B	1163	ALA	CA-C-O	-7.44	112.63	120.89
6	P	28	SER	CA-C-O	-7.44	109.88	120.51
6	P	249	VAL	N-CA-C	7.44	119.19	108.48
6	P	389	ALA	N-CA-C	7.44	120.33	111.33
6	K	160	GLN	CA-CB-CG	7.43	128.97	114.10
1	A	146	SER	N-CA-C	7.43	121.39	108.75
1	A	573	GLY	O-C-N	7.43	132.36	122.70
5	N	125	ILE	N-CA-C	7.43	124.80	109.34
5	T	72	SER	N-CA-C	7.43	120.32	111.33
2	B	583	VAL	CA-C-O	-7.43	113.68	121.41
3	C	305	THR	CA-CB-OG1	7.43	120.75	109.60
3	C	1195	TYR	N-CA-C	7.43	120.63	108.52
6	I	319	THR	CA-C-O	-7.42	112.34	120.36
6	I	466	VAL	CB-CA-C	7.42	123.27	111.69
2	B	705	ILE	CA-C-O	-7.42	113.23	120.95
6	K	466	VAL	CB-CA-C	7.42	123.27	111.69
6	P	168	THR	N-CA-C	7.42	122.47	113.41
6	U	20	PHE	O-C-N	7.42	132.47	122.82
6	W	194	LEU	N-CA-C	7.42	119.07	109.64
6	W	411	VAL	CG1-CB-CG2	-7.42	94.47	110.80
5	M	219	HIS	CE1-NE2-CD2	-7.42	101.58	109.00
4	E	354	GLN	N-CA-C	7.42	119.37	111.28
6	Q	634	LYS	N-CA-C	7.42	119.01	111.07
5	S	234	ARG	NE-CZ-NH2	7.42	125.88	119.20
6	I	197	ASP	N-CA-C	7.42	121.77	112.87
6	Q	421	HIS	ND1-CE1-NE2	7.42	115.82	108.40
6	W	455	SER	N-CA-C	7.42	121.24	111.75
5	G	213	THR	CA-CB-OG1	7.41	120.72	109.60
2	B	727	ARG	N-CA-C	7.41	120.00	111.11
2	B	1044	ASP	CA-C-N	7.41	132.63	122.77
2	B	1044	ASP	C-N-CA	7.41	132.63	122.77
3	C	293	LEU	CA-C-O	-7.41	112.92	121.07
3	C	551	PRO	N-CA-CB	7.41	109.77	103.17
6	Q	411	VAL	CG1-CB-CG2	-7.41	94.50	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	X	466	VAL	CB-CA-C	7.41	123.25	111.69
6	X	585	GLN	CA-C-O	7.41	128.73	120.43
1	A	19	ARG	NE-CZ-NH2	7.41	125.87	119.20
5	F	180	HIS	N-CA-C	7.41	118.68	109.57
6	W	215	TYR	CA-C-N	7.41	127.43	119.28
6	W	215	TYR	C-N-CA	7.41	127.43	119.28
1	A	139	PHE	O-C-N	7.40	132.44	122.59
5	R	191	LYS	O-C-N	7.40	130.88	122.22
6	W	466	VAL	CB-CA-C	7.40	123.24	111.69
6	I	58	ILE	CB-CG1-CD1	7.40	129.34	113.80
6	O	604	VAL	N-CA-C	7.40	119.06	110.62
6	W	420	LEU	N-CA-C	7.40	122.40	109.96
5	T	132	THR	O-C-N	7.40	132.12	123.02
4	D	277	GLN	OE1-CD-NE2	-7.40	115.20	122.60
5	H	78	ALA	O-C-N	7.40	129.96	122.12
5	L	8	GLN	OE1-CD-NE2	7.40	130.00	122.60
2	B	1197	TYR	N-CA-C	7.39	121.53	109.85
5	G	110	PHE	O-C-N	7.39	132.54	122.48
6	K	227	LEU	O-C-N	7.39	127.19	121.27
6	O	528	ALA	N-CA-C	7.39	126.55	110.80
3	C	739	VAL	CA-CB-CG1	7.39	122.97	110.40
6	I	91	MET	N-CA-CB	7.39	121.60	110.22
6	K	420	LEU	N-CA-C	7.39	122.38	109.96
6	I	141	GLN	N-CA-C	7.39	118.98	111.07
5	S	224	SER	CA-C-O	7.39	131.08	120.51
5	R	72	SER	N-CA-C	7.39	119.97	111.11
5	Y	29	ARG	NE-CZ-NH2	7.39	125.85	119.20
1	A	54	ARG	NE-CZ-NH1	-7.39	114.11	121.50
1	A	1201	ASN	N-CA-C	7.39	120.20	111.71
5	F	11	HIS	N-CA-C	7.39	119.97	111.11
5	F	125	ILE	N-CA-C	7.39	124.70	109.34
5	L	250	HIS	ND1-CE1-NE2	7.39	115.79	108.40
6	P	283	SER	N-CA-CB	7.39	121.14	110.06
5	Y	72	SER	N-CA-C	7.39	119.97	111.11
2	B	367	ARG	NE-CZ-NH2	7.38	125.85	119.20
5	H	191	LYS	O-C-N	7.38	130.86	122.22
1	A	531	PRO	O-C-N	7.38	132.61	122.64
5	H	236	ALA	N-CA-C	7.38	118.97	111.07
5	L	271	HIS	CE1-NE2-CD2	-7.38	101.62	109.00
2	B	342	LEU	N-CA-C	7.38	119.33	111.28
4	E	16	GLN	OE1-CD-NE2	-7.38	115.22	122.60
6	I	546	GLN	N-CA-C	7.38	120.20	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	513	HIS	CE1-NE2-CD2	-7.38	101.62	109.00
4	D	178	THR	CA-CB-OG1	7.38	120.67	109.60
1	A	432	PHE	N-CA-C	7.38	120.93	108.90
2	B	840	ALA	N-CA-C	7.38	118.97	111.07
5	N	136	ASP	CA-CB-CG	7.38	119.98	112.60
6	P	18	ASN	N-CA-C	7.38	120.95	109.96
6	U	622	GLU	N-CA-C	7.38	119.40	111.36
4	E	184	HIS	CE1-NE2-CD2	-7.38	101.62	109.00
6	P	619	ASP	CB-CA-C	-7.38	96.99	110.63
5	M	198	HIS	CE1-NE2-CD2	-7.37	101.63	109.00
6	Q	562	TYR	CB-CG-CD1	-7.37	109.74	120.80
4	E	281	VAL	CA-C-N	7.37	130.16	120.28
4	E	281	VAL	C-N-CA	7.37	130.16	120.28
6	I	604	VAL	N-CA-C	7.37	119.02	110.62
6	O	247	SER	N-CA-C	7.37	126.50	110.80
1	A	79	LEU	N-CA-C	7.37	121.18	111.75
4	D	35	ARG	NE-CZ-NH1	7.37	128.87	121.50
2	B	1197	TYR	CA-C-O	-7.36	112.84	121.46
6	P	466	VAL	CB-CA-C	7.36	123.18	111.69
1	A	224	PRO	CA-C-N	7.36	131.20	120.82
1	A	224	PRO	C-N-CA	7.36	131.20	120.82
6	Q	298	PHE	CB-CG-CD1	-7.36	108.18	120.70
6	U	247	SER	N-CA-C	7.36	126.48	110.80
3	C	187	VAL	CA-CB-CG1	7.36	122.91	110.40
3	C	477	SER	N-CA-C	7.36	120.36	111.82
6	J	59	ASP	N-CA-C	7.36	121.91	112.34
1	A	782	THR	N-CA-C	7.36	121.17	111.75
5	M	180	HIS	N-CA-C	7.36	118.62	109.57
6	X	48	TRP	N-CA-C	7.36	121.13	109.65
4	E	6	PHE	CA-CB-CG	7.36	121.16	113.80
6	I	48	TRP	N-CA-C	7.36	121.13	109.65
6	I	247	SER	N-CA-C	7.36	126.47	110.80
6	O	197	ASP	N-CA-C	7.36	121.70	112.87
5	S	11	HIS	N-CA-C	7.36	119.94	111.11
6	W	298	PHE	CB-CG-CD1	-7.36	108.20	120.70
1	A	534	LEU	O-C-N	7.35	129.68	122.03
2	B	1180	GLY	CA-C-N	7.35	133.59	122.93
2	B	1180	GLY	C-N-CA	7.35	133.59	122.93
5	N	198	HIS	CA-CB-CG	7.35	121.15	113.80
5	T	25	TYR	CA-CB-CG	7.35	127.14	113.90
2	B	818	ILE	O-C-N	7.35	129.90	121.96
5	L	29	ARG	NE-CZ-NH2	7.35	125.82	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	E	138	ILE	N-CA-C	7.35	118.12	110.62
6	O	622	GLU	N-CA-C	7.35	119.37	111.36
6	Q	510	VAL	O-C-N	7.35	129.54	121.90
6	K	64	VAL	CB-CA-C	7.35	123.34	111.29
6	O	389	ALA	N-CA-C	7.35	120.22	111.33
5	T	208	VAL	N-CA-C	7.35	120.24	111.05
5	G	11	HIS	N-CA-C	7.35	119.93	111.11
6	I	528	ALA	N-CA-C	7.35	126.45	110.80
6	P	197	ASP	N-CA-C	7.35	121.69	112.87
5	R	30	THR	CA-CB-OG1	7.35	120.62	109.60
5	R	224	SER	CA-C-O	7.35	131.02	120.51
2	B	438	PRO	N-CA-CB	7.35	107.57	102.35
3	C	699	ASN	N-CA-C	7.35	118.93	111.07
5	H	131	ARG	NE-CZ-NH2	7.35	125.81	119.20
6	Q	457	PRO	N-CA-CB	7.35	110.96	103.25
4	D	369	HIS	ND1-CE1-NE2	7.34	115.74	108.40
6	J	29	THR	N-CA-CB	7.34	122.90	110.49
6	X	249	VAL	N-CA-C	7.34	119.05	108.48
3	C	529	TRP	N-CA-C	7.34	119.28	111.28
6	J	442	THR	N-CA-C	7.34	119.54	108.46
6	O	249	VAL	N-CA-C	7.34	119.05	108.48
5	T	239	GLY	CA-C-O	-7.34	111.03	121.52
5	Y	216	ILE	CA-CB-CG1	7.34	122.88	110.40
3	C	191	PRO	CA-C-O	-7.34	112.67	121.03
6	I	249	VAL	N-CA-C	7.34	119.04	108.48
5	G	37	HIS	ND1-CE1-NE2	7.33	115.73	108.40
6	U	338	VAL	CA-CB-CG2	7.33	122.87	110.40
6	I	289	LEU	N-CA-C	7.33	121.40	109.59
5	H	147	HIS	CG-CD2-NE2	7.33	114.53	107.20
5	L	78	ALA	N-CA-C	7.33	120.20	111.33
6	P	194	LEU	N-CA-C	7.33	118.95	109.64
6	U	132	THR	O-C-N	7.33	131.62	123.04
5	Y	105	ASP	CA-CB-CG	7.33	119.93	112.60
2	B	677	TYR	CA-C-N	7.33	127.34	119.28
2	B	677	TYR	C-N-CA	7.33	127.34	119.28
5	L	1	MET	CA-C-N	7.33	128.41	120.13
5	L	1	MET	C-N-CA	7.33	128.41	120.13
2	B	1085	LEU	N-CA-C	7.33	121.12	110.28
6	P	58	ILE	CB-CG1-CD1	7.33	129.19	113.80
6	X	573	ALA	CA-C-N	7.33	129.97	120.44
6	X	573	ALA	C-N-CA	7.33	129.97	120.44
5	Y	30	THR	CA-CB-OG1	7.33	120.59	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	M	131	ARG	NE-CZ-NH2	7.33	125.79	119.20
6	O	297	ALA	CB-CA-C	7.33	125.00	110.42
5	T	198	HIS	CA-CB-CG	7.33	121.13	113.80
1	A	20	ARG	N-CA-C	7.32	120.31	110.35
2	B	489	ASP	CA-CB-CG	7.32	119.92	112.60
2	B	860	THR	O-C-N	7.32	129.71	122.09
2	B	944	ASN	CB-CG-ND2	-7.32	105.41	116.40
3	C	166	ASP	CA-CB-CG	7.32	119.92	112.60
5	M	113	PRO	O-C-N	7.32	131.31	123.03
6	Q	48	TRP	N-CA-C	7.32	121.07	109.65
5	F	37	HIS	ND1-CE1-NE2	7.32	115.72	108.40
5	R	152	HIS	ND1-CE1-NE2	7.32	115.72	108.40
4	D	10	THR	CA-CB-OG1	7.32	120.58	109.60
5	F	191	LYS	O-C-N	7.32	131.28	122.27
6	V	313	SER	CA-CB-OG	7.32	125.74	111.10
5	H	21	ARG	NE-CZ-NH1	-7.32	114.18	121.50
6	I	573	ALA	CA-C-N	7.32	129.95	120.44
6	I	573	ALA	C-N-CA	7.32	129.95	120.44
5	L	180	HIS	N-CA-C	7.32	118.57	109.57
6	O	252	LEU	N-CA-C	7.32	118.90	111.07
5	S	78	ALA	O-C-N	7.32	129.88	122.12
6	V	635	GLN	O-C-N	7.32	129.91	122.08
1	A	404	TYR	N-CA-C	7.32	121.95	110.17
5	M	236	ALA	N-CA-C	7.32	118.90	111.07
6	P	313	SER	CA-CB-OG	7.32	125.73	111.10
6	W	283	SER	N-CA-C	7.32	120.18	111.33
6	O	481	VAL	N-CA-C	7.31	120.11	108.85
5	Y	239	GLY	CA-C-O	-7.31	111.06	121.52
6	V	29	THR	N-CA-CB	7.31	122.85	110.49
5	Y	198	HIS	CE1-NE2-CD2	-7.31	101.69	109.00
6	K	430	THR	N-CA-C	7.31	120.18	111.33
6	U	48	TRP	N-CA-C	7.31	121.06	109.65
6	J	421	HIS	ND1-CE1-NE2	7.31	115.71	108.40
6	K	561	ASP	O-C-N	7.31	132.31	122.59
5	L	30	THR	CA-CB-OG1	7.31	120.56	109.60
1	A	430	HIS	CA-CB-CG	7.31	121.11	113.80
5	G	72	SER	N-CA-C	7.31	119.88	111.11
6	I	282	VAL	CA-C-O	7.30	129.91	120.78
5	N	239	GLY	CA-C-O	-7.30	111.07	121.52
1	A	135	LEU	O-C-N	7.30	130.76	122.22
1	A	502	ASN	CA-CB-CG	7.30	119.90	112.60
5	G	25	TYR	CA-CB-CG	7.30	127.04	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	G	180	HIS	N-CA-C	7.30	118.55	109.57
6	J	289	LEU	N-CA-C	7.30	121.35	109.59
5	Y	271	HIS	CE1-NE2-CD2	-7.30	101.70	109.00
1	A	593	PRO	N-CD-CG	7.30	114.15	103.20
5	R	1	MET	CA-C-N	7.30	128.38	120.13
5	R	1	MET	C-N-CA	7.30	128.38	120.13
5	R	239	GLY	CA-C-O	-7.30	111.08	121.52
1	A	242	PRO	O-C-N	7.30	132.16	122.89
3	C	247	THR	N-CA-CB	7.30	122.82	110.49
4	E	369	HIS	ND1-CE1-NE2	7.30	115.70	108.40
6	I	162	HIS	CE1-NE2-CD2	-7.30	101.70	109.00
6	P	289	LEU	N-CA-C	7.30	121.34	109.59
6	X	161	LYS	N-CA-CB	-7.30	99.07	109.94
4	D	30	ALA	CA-C-O	7.29	130.94	120.51
5	M	125	ILE	N-CA-C	7.29	124.51	109.34
3	C	1210	VAL	N-CA-C	7.29	124.51	109.34
6	J	161	LYS	N-CA-CB	-7.29	99.07	109.94
6	J	249	VAL	N-CA-C	7.29	118.98	108.48
5	T	4	HIS	CE1-NE2-CD2	-7.29	101.71	109.00
6	W	48	TRP	N-CA-C	7.29	121.03	109.65
6	W	442	THR	N-CA-C	7.29	119.47	108.46
5	N	105	ASP	CA-CB-CG	7.29	119.89	112.60
3	C	1198	ASN	CA-CB-CG	7.29	119.89	112.60
2	B	1212	SER	CA-C-N	-7.29	109.49	122.32
2	B	1212	SER	C-N-CA	-7.29	109.49	122.32
4	E	127	THR	O-C-N	7.29	129.85	122.12
6	J	330	GLN	N-CA-C	7.29	121.57	112.24
5	S	147	HIS	CG-CD2-NE2	7.29	114.49	107.20
6	V	289	LEU	N-CA-C	7.29	121.32	109.59
6	K	238	VAL	CA-CB-CG1	7.29	122.79	110.40
1	A	1002	ILE	CA-C-N	7.29	129.25	120.14
1	A	1002	ILE	C-N-CA	7.29	129.25	120.14
4	D	123	ASN	N-CA-C	7.29	121.61	112.87
6	O	390	ASN	OD1-CG-ND2	-7.29	115.31	122.60
2	B	367	ARG	NE-CZ-NH1	-7.28	114.22	121.50
5	N	147	HIS	CG-CD2-NE2	7.28	114.48	107.20
6	U	58	ILE	CB-CG1-CD1	7.28	129.10	113.80
5	Y	136	ASP	CA-CB-CG	7.28	119.88	112.60
3	C	23	PRO	O-C-N	7.28	132.47	122.64
5	H	25	TYR	CA-CB-CG	7.28	127.01	113.90
6	K	194	LEU	N-CA-C	7.28	118.89	109.64
6	U	573	ALA	CA-C-N	7.28	129.91	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	U	573	ALA	C-N-CA	7.28	129.91	120.44
6	X	141	GLN	N-CA-C	7.28	118.86	111.07
2	B	493	LEU	N-CA-C	7.28	119.85	111.11
3	C	1178	ARG	NH1-CZ-NH2	-7.28	109.84	119.30
5	H	142	ALA	N-CA-C	7.28	120.08	111.71
6	I	297	ALA	CB-CA-C	7.28	124.91	110.42
5	T	131	ARG	NE-CZ-NH2	7.28	125.75	119.20
6	V	28	SER	CA-C-O	-7.28	110.10	120.51
1	A	296	ASP	CA-CB-CG	7.28	119.88	112.60
3	C	958	HIS	CB-CG-CD2	-7.28	121.74	131.20
5	S	221	LEU	CA-C-O	-7.28	113.20	120.70
3	C	63	VAL	N-CA-C	7.28	121.21	111.17
4	E	216	PHE	O-C-N	7.28	129.56	122.07
6	K	249	VAL	N-CA-C	7.28	118.96	108.48
6	W	185	SER	N-CA-CB	7.28	120.78	109.94
2	B	407	ARG	O-C-N	7.27	129.56	122.07
3	C	591	ASN	N-CA-C	7.27	120.13	111.33
5	F	221	LEU	CA-C-O	-7.27	113.21	120.70
5	T	29	ARG	NE-CZ-NH2	7.27	125.75	119.20
6	U	638	PHE	O-C-N	7.27	129.83	122.12
1	A	38	ASN	N-CA-CB	-7.27	100.03	110.57
6	Q	20	PHE	O-C-N	7.27	132.27	122.82
6	U	561	ASP	O-C-N	7.27	132.26	122.59
4	E	376	ALA	CA-C-O	7.27	128.25	120.55
6	K	573	ALA	CA-C-N	7.27	129.89	120.44
6	K	573	ALA	C-N-CA	7.27	129.89	120.44
2	B	1071	ARG	NE-CZ-NH1	-7.26	114.24	121.50
3	C	1195	TYR	CB-CG-CD2	-7.26	109.91	120.80
6	I	561	ASP	O-C-N	7.26	132.25	122.59
6	J	386	THR	N-CA-C	7.26	122.27	113.41
6	J	528	ALA	O-C-N	7.26	132.25	122.59
6	X	252	LEU	N-CA-C	7.26	118.84	111.07
3	C	930	ARG	NE-CZ-NH1	-7.26	114.24	121.50
6	K	510	VAL	O-C-N	7.26	129.45	121.90
6	Q	573	ALA	CA-C-N	7.26	129.88	120.44
6	Q	573	ALA	C-N-CA	7.26	129.88	120.44
1	A	591	ASP	CA-CB-CG	7.26	119.86	112.60
6	O	20	PHE	O-C-N	7.26	132.26	122.82
3	C	647	ARG	CD-NE-CZ	7.26	134.56	124.40
5	H	29	ARG	NE-CZ-NH2	7.26	125.73	119.20
6	K	542	ARG	CB-CG-CD	7.26	128.00	111.30
5	M	221	LEU	CA-C-O	-7.26	113.22	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	Q	168	THR	CA-CB-CG2	7.26	122.84	110.50
6	V	645	TRP	O-C-N	7.26	126.31	121.23
1	A	621	ASN	CA-CB-CG	7.26	119.86	112.60
2	B	228	MET	N-CA-C	7.26	120.11	111.33
6	K	457	PRO	N-CA-CB	7.26	110.87	103.25
6	P	528	ALA	O-C-N	7.26	132.24	122.59
6	W	161	LYS	N-CA-CB	-7.26	99.13	109.94
5	N	25	TYR	CA-CB-CG	7.25	126.96	113.90
6	P	430	THR	N-CA-C	7.25	120.11	111.33
5	T	21	ARG	NE-CZ-NH1	-7.25	114.25	121.50
2	B	760	SER	N-CA-C	7.25	120.23	111.82
6	I	634	LYS	N-CA-C	7.25	118.83	111.07
6	J	123	ALA	O-C-N	7.25	130.45	122.11
6	J	284	VAL	CB-CA-C	7.25	121.52	112.02
5	R	171	HIS	CA-C-O	-7.25	111.62	118.44
3	C	559	HIS	CA-CB-CG	7.25	121.05	113.80
5	L	136	ASP	CA-CB-CG	7.25	119.85	112.60
6	P	324	GLY	O-C-N	7.25	128.38	122.51
5	R	208	VAL	N-CA-C	7.25	120.11	111.05
3	C	727	ARG	CA-C-N	7.25	131.69	120.82
3	C	727	ARG	C-N-CA	7.25	131.69	120.82
6	U	481	VAL	N-CA-C	7.25	120.02	108.85
6	W	622	GLU	N-CA-C	7.25	119.26	111.36
1	A	266	VAL	N-CA-C	7.25	118.01	110.62
6	I	81	THR	O-C-N	7.25	129.84	122.08
6	I	142	ILE	O-C-N	7.25	128.90	121.87
6	J	619	ASP	CB-CA-C	-7.25	97.22	110.63
6	O	227	LEU	O-C-N	7.25	127.07	121.27
6	P	59	ASP	N-CA-C	7.25	121.76	112.34
6	Q	638	PHE	O-C-N	7.25	129.80	122.12
6	V	20	PHE	O-C-N	7.25	132.24	122.82
6	V	283	SER	N-CA-CB	7.25	120.93	110.06
1	A	238	HIS	N-CA-C	7.25	120.42	109.41
5	G	142	ALA	N-CA-C	7.25	120.04	111.71
6	I	194	LEU	N-CA-C	7.25	118.84	109.64
6	X	338	VAL	CA-CB-CG2	7.25	122.72	110.40
1	A	669	ARG	NE-CZ-NH2	7.24	125.72	119.20
6	J	215	TYR	CA-C-N	7.24	127.25	119.28
6	J	215	TYR	C-N-CA	7.24	127.25	119.28
5	N	132	THR	O-C-N	7.24	131.93	123.02
6	O	81	THR	O-C-N	7.24	129.83	122.08
5	H	59	HIS	CE1-NE2-CD2	-7.24	101.76	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	100	THR	CA-CB-OG1	7.24	120.46	109.60
1	A	770	ARG	NE-CZ-NH1	-7.24	114.26	121.50
1	A	790	ARG	NE-CZ-NH1	-7.24	114.26	121.50
2	B	944	ASN	CB-CG-OD1	7.24	135.28	120.80
6	J	81	THR	O-C-N	7.24	129.82	122.08
6	J	601	THR	O-C-N	7.24	129.82	122.08
6	K	20	PHE	O-C-N	7.24	132.23	122.82
6	V	132	THR	O-C-N	7.24	131.51	123.04
6	W	64	VAL	CB-CA-C	7.24	123.16	111.29
3	C	32	SER	N-CA-C	7.24	125.80	109.81
6	J	481	VAL	N-CA-C	7.24	119.99	108.85
6	K	421	HIS	ND1-CE1-NE2	7.24	115.64	108.40
6	V	442	THR	N-CA-C	7.24	119.39	108.46
5	R	28	THR	CA-CB-CG2	7.23	122.80	110.50
6	I	542	ARG	CB-CG-CD	7.23	127.94	111.30
6	J	48	TRP	N-CA-C	7.23	120.93	109.65
6	V	284	VAL	CB-CA-C	7.23	121.49	112.02
3	C	941	TYR	N-CA-C	7.23	120.03	111.71
5	F	239	GLY	CA-C-O	-7.23	111.18	121.52
5	H	271	HIS	CE1-NE2-CD2	-7.23	101.77	109.00
6	O	576	PHE	N-CA-C	7.23	119.79	111.11
6	P	421	HIS	ND1-CE1-NE2	7.23	115.63	108.40
5	T	224	SER	CA-C-O	7.23	130.85	120.51
2	B	774	LEU	N-CA-C	7.23	121.40	111.71
5	G	78	ALA	O-C-N	7.23	129.78	122.12
5	N	142	ALA	N-CA-C	7.23	120.02	111.71
5	R	136	ASP	CA-CB-CG	7.23	119.83	112.60
6	U	528	ALA	N-CA-C	7.23	126.19	110.80
6	W	313	SER	CA-CB-OG	7.23	125.55	111.10
6	X	512	ASN	OD1-CG-ND2	-7.23	115.37	122.60
6	J	466	VAL	CB-CA-C	7.23	122.96	111.69
5	N	59	HIS	CE1-NE2-CD2	-7.23	101.77	109.00
6	P	48	TRP	N-CA-C	7.23	120.92	109.65
6	I	645	TRP	O-C-N	7.22	126.29	121.23
5	L	157	HIS	CE1-NE2-CD2	-7.22	101.78	109.00
6	V	573	ALA	CA-C-N	7.22	129.83	120.44
6	V	573	ALA	C-N-CA	7.22	129.83	120.44
4	E	92	TRP	CD2-CE2-CZ2	-7.22	115.18	122.40
6	P	539	ILE	N-CA-C	7.22	117.98	110.62
6	U	472	ARG	CG-CD-NE	7.22	127.88	112.00
3	C	751	CYS	N-CA-C	7.22	123.48	113.45
5	R	37	HIS	ND1-CE1-NE2	7.22	115.62	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	1099	ILE	N-CA-C	7.22	117.35	110.42
6	I	18	ASN	N-CA-C	7.22	120.71	109.96
5	N	236	ALA	N-CA-C	7.22	118.79	111.07
6	O	55	VAL	O-C-N	7.22	131.59	122.57
6	U	249	VAL	N-CA-C	7.22	118.87	108.48
1	A	66	ASN	N-CA-C	7.21	126.17	110.80
1	A	509	VAL	N-CA-C	7.21	118.85	110.62
1	A	776	ASP	CA-CB-CG	7.21	119.81	112.60
3	C	524	ASP	CA-CB-CG	7.21	119.81	112.60
6	J	625	ARG	NE-CZ-NH2	7.21	125.69	119.20
5	M	136	ASP	CA-CB-CG	7.21	119.81	112.60
5	N	208	VAL	N-CA-C	7.21	120.07	111.05
5	N	271	HIS	CE1-NE2-CD2	-7.21	101.79	109.00
6	W	641	ILE	CA-C-O	-7.21	113.45	120.95
6	X	459	LEU	N-CA-C	7.21	121.62	111.30
5	Y	142	ALA	N-CA-C	7.21	120.01	111.71
5	Y	223	THR	N-CA-C	7.21	120.55	111.24
5	F	231	HIS	CB-CG-CD2	-7.21	121.82	131.20
5	H	31	GLU	CA-C-O	-7.21	112.36	120.66
5	L	125	ILE	N-CA-C	7.21	124.34	109.34
6	O	185	SER	N-CA-CB	7.21	120.69	109.94
5	T	136	ASP	CA-CB-CG	7.21	119.81	112.60
1	A	1284	TYR	CB-CA-C	7.21	119.16	109.42
2	B	748	GLN	N-CA-C	7.21	120.18	111.82
4	D	5	GLN	N-CA-CB	-7.21	99.71	110.60
5	H	152	HIS	CE1-NE2-CD2	-7.21	101.79	109.00
6	I	223	PRO	O-C-N	7.21	129.97	122.18
2	B	1214	THR	N-CA-CB	-7.21	99.25	111.50
4	D	129	VAL	N-CA-C	7.21	120.10	111.09
5	G	171	HIS	CA-C-O	-7.21	111.66	118.44
5	Y	238	TYR	N-CA-C	7.21	120.27	108.52
3	C	603	VAL	CA-CB-CG1	7.21	122.65	110.40
6	Q	206	GLU	CA-C-O	-7.21	113.25	120.82
6	J	539	ILE	N-CA-C	7.21	117.97	110.62
4	E	309	SER	N-CA-C	7.20	121.42	111.55
6	I	60	SER	O-C-N	7.20	131.74	123.31
6	O	281	PRO	N-CA-C	7.20	122.62	110.95
6	U	330	GLN	N-CA-C	7.20	121.46	112.24
6	W	142	ILE	O-C-N	7.20	128.85	121.87
5	G	238	TYR	N-CA-C	7.20	120.25	108.52
6	K	643	SER	N-CA-C	7.20	118.77	111.07
6	O	561	ASP	O-C-N	7.20	132.16	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	X	81	THR	O-C-N	7.20	129.78	122.08
1	A	99	LEU	CA-C-O	7.20	128.40	120.63
1	A	241	LEU	O-C-N	7.20	128.12	120.85
6	J	18	ASN	N-CA-C	7.20	120.68	109.96
5	R	219	HIS	CE1-NE2-CD2	-7.20	101.80	109.00
5	Y	255	SER	N-CA-C	7.20	119.99	111.71
2	B	414	THR	N-CA-C	7.20	119.74	111.11
6	K	90	ASN	CA-CB-CG	7.20	119.80	112.60
6	P	330	GLN	N-CA-C	7.20	121.45	112.24
1	A	206	TYR	CG-CD2-CE2	-7.19	110.41	121.20
3	C	1194	LEU	O-C-N	7.19	131.67	122.89
6	Q	469	VAL	N-CA-CB	7.19	118.50	110.51
1	A	82	ARG	CA-C-O	7.19	128.40	120.63
1	A	348	GLN	OE1-CD-NE2	-7.19	115.41	122.60
1	A	1077	ASN	CA-C-N	7.19	130.12	122.14
1	A	1077	ASN	C-N-CA	7.19	130.12	122.14
1	A	1145	ASP	N-CA-C	7.19	120.83	109.39
3	C	1125	TYR	N-CA-C	7.19	120.91	109.40
6	K	242	PHE	CB-CG-CD2	-7.19	108.47	120.70
6	V	542	ARG	CB-CG-CD	7.19	127.84	111.30
6	X	281	PRO	N-CA-C	7.19	122.60	110.95
2	B	1116	PRO	N-CA-CB	7.19	110.80	103.25
5	H	216	ILE	CA-CB-CG1	7.19	122.62	110.40
6	K	289	LEU	N-CA-C	7.19	121.17	109.59
6	Q	622	GLU	N-CA-C	7.19	119.20	111.36
6	K	161	LYS	N-CA-CB	-7.19	99.23	109.94
6	U	634	LYS	N-CA-C	7.19	118.76	111.07
6	X	604	VAL	N-CA-C	7.19	118.82	110.62
2	B	575	MET	N-CA-C	7.19	121.80	112.89
3	C	440	ILE	CA-C-O	-7.19	111.89	121.02
4	E	124	ASN	OD1-CG-ND2	-7.19	115.41	122.60
6	K	141	GLN	N-CA-C	7.19	118.76	111.07
5	N	29	ARG	NE-CZ-NH2	7.19	125.67	119.20
6	U	123	ALA	O-C-N	7.19	130.90	122.20
6	V	619	ASP	CB-CA-C	-7.19	97.34	110.63
5	G	223	THR	N-CA-C	7.18	120.51	111.24
5	L	78	ALA	O-C-N	7.18	129.74	122.12
5	T	157	HIS	CE1-NE2-CD2	-7.18	101.81	109.00
6	W	29	THR	N-CA-CB	7.18	122.63	110.49
5	H	37	HIS	ND1-CE1-NE2	7.18	115.58	108.40
6	V	107	VAL	O-C-N	7.18	131.55	122.57
3	C	552	ASP	N-CA-CB	-7.18	99.83	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	Q	185	SER	N-CA-CB	7.18	120.64	109.94
6	U	641	ILE	CA-C-O	-7.18	113.48	120.95
2	B	640	ARG	O-C-N	7.18	129.56	122.09
2	B	1207	ILE	CA-CB-CG2	7.18	122.71	110.50
5	R	180	HIS	N-CA-C	7.18	118.40	109.57
6	W	141	GLN	N-CA-C	7.18	118.75	111.07
3	C	110	PRO	N-CA-CB	7.18	109.59	103.35
6	U	297	ALA	CB-CA-C	7.18	124.70	110.42
3	C	610	THR	CA-CB-OG1	7.18	120.36	109.60
6	K	481	VAL	N-CA-C	7.18	119.90	108.85
6	V	591	LEU	N-CA-C	7.18	120.14	111.82
2	B	972	MET	N-CA-C	7.17	120.01	111.33
5	M	4	HIS	CB-CG-ND1	-7.17	111.94	122.70
5	T	11	HIS	N-CA-C	7.17	119.72	111.11
6	X	206	GLU	CA-C-O	-7.17	113.29	120.82
6	J	282	VAL	CA-C-O	7.17	129.75	120.78
6	O	430	THR	N-CA-C	7.17	120.01	111.33
5	S	239	GLY	CA-C-O	-7.17	111.26	121.52
6	I	29	THR	CA-C-N	7.17	134.15	122.39
6	I	29	THR	C-N-CA	7.17	134.15	122.39
6	I	330	GLN	N-CA-C	7.17	121.42	112.24
6	K	536	THR	CA-CB-OG1	7.17	120.36	109.60
6	K	618	THR	O-C-N	7.17	129.75	122.08
5	M	28	THR	CA-CB-CG2	7.17	122.69	110.50
6	U	64	VAL	CB-CA-C	7.17	123.05	111.29
6	O	313	SER	CA-CB-OG	7.17	125.44	111.10
5	T	28	THR	CA-CB-CG2	7.17	122.69	110.50
2	B	407	ARG	N-CA-C	7.17	118.74	111.07
5	L	25	TYR	CA-CB-CG	7.17	126.80	113.90
5	R	64	THR	N-CA-C	7.17	118.74	111.07
4	E	288	GLN	N-CA-C	7.17	121.66	112.34
5	H	180	HIS	N-CA-C	7.17	118.38	109.57
6	W	539	ILE	O-C-N	7.17	129.90	121.80
6	W	81	THR	O-C-N	7.17	129.75	122.08
5	Y	21	ARG	NE-CZ-NH1	-7.17	114.33	121.50
6	P	648	LYS	CB-CG-CD	7.16	127.78	111.30
5	S	216	ILE	CA-CB-CG1	7.16	122.58	110.40
6	W	91	MET	N-CA-CB	7.16	121.25	110.22
2	B	903	HIS	CB-CG-CD2	-7.16	121.89	131.20
3	C	715	VAL	CA-CB-CG1	7.16	122.57	110.40
5	G	198	HIS	CB-CG-CD2	-7.16	121.89	131.20
5	H	136	ASP	CA-CB-CG	7.16	119.76	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	56	ALA	N-CA-CB	-7.16	98.39	110.49
1	A	1224	VAL	CA-C-N	7.16	130.19	120.38
1	A	1224	VAL	C-N-CA	7.16	130.19	120.38
3	C	535	TRP	N-CA-C	7.16	119.08	111.28
5	L	21	ARG	NE-CZ-NH1	-7.16	114.34	121.50
6	P	20	PHE	O-C-N	7.16	132.13	122.82
6	P	643	SER	N-CA-C	7.16	118.73	111.07
6	V	91	MET	N-CA-CB	7.16	121.24	110.22
2	B	725	THR	O-C-N	7.16	129.44	122.07
2	B	565	LYS	N-CA-C	7.16	119.99	111.33
4	E	364	LEU	O-C-N	7.16	129.74	122.08
5	S	21	ARG	NE-CZ-NH1	-7.15	114.35	121.50
2	B	395	THR	CA-CB-OG1	7.15	120.33	109.60
2	B	698	SER	O-C-N	7.15	129.44	122.07
4	D	312	VAL	CB-CA-C	-7.15	103.55	111.35
6	K	63	ILE	O-C-N	7.15	130.21	122.63
4	E	152	ASP	CA-CB-CG	7.15	119.75	112.60
5	F	223	THR	N-CA-C	7.15	120.46	111.24
6	I	160	GLN	CA-CB-CG	7.15	128.40	114.10
5	T	223	THR	N-CA-C	7.15	120.46	111.24
1	A	1192	LEU	N-CA-C	7.15	119.92	108.41
6	I	513	HIS	CA-C-N	7.15	130.82	120.38
6	I	513	HIS	C-N-CA	7.15	130.82	120.38
6	J	573	ALA	CA-C-N	7.15	129.73	120.44
6	J	573	ALA	C-N-CA	7.15	129.73	120.44
5	N	30	THR	CA-CB-OG1	7.15	120.32	109.60
6	W	59	ASP	N-CA-C	7.15	121.63	112.34
1	A	690	ARG	NH1-CZ-NH2	-7.15	110.01	119.30
2	B	1004	PHE	CA-CB-CG	7.15	120.95	113.80
3	C	254	ASP	N-CA-C	7.15	119.93	111.71
5	L	72	SER	N-CA-C	7.15	119.98	111.33
5	R	25	TYR	CA-CB-CG	7.15	126.77	113.90
6	X	313	SER	CA-CB-OG	7.15	125.40	111.10
2	B	224	TRP	CA-C-O	7.14	128.17	120.10
2	B	1045	TRP	N-CA-CB	7.14	122.07	110.42
6	Q	91	MET	N-CA-CB	7.14	121.22	110.22
6	X	634	LYS	N-CA-C	7.14	118.71	111.07
1	A	397	PRO	CA-C-O	-7.14	113.29	121.36
1	A	1108	PHE	CA-C-O	7.14	128.61	120.54
3	C	274	TYR	N-CA-C	7.14	122.17	113.17
3	C	836	HIS	CB-CG-CD2	-7.14	121.91	131.20
5	M	132	THR	O-C-N	7.14	131.80	123.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	902	ALA	N-CA-CB	-7.14	99.63	110.12
6	P	638	PHE	O-C-N	7.14	129.69	122.12
6	U	283	SER	N-CA-C	7.14	119.06	111.28
6	V	281	PRO	N-CA-C	7.14	122.52	110.95
1	A	13	LEU	CA-C-O	-7.14	112.79	121.36
2	B	779	VAL	CA-CB-CG2	7.14	122.53	110.40
3	C	292	ALA	N-CA-C	7.14	121.70	112.92
6	P	282	VAL	CA-C-O	7.14	129.70	120.78
6	W	18	ASN	N-CA-C	7.14	120.60	109.96
6	W	542	ARG	CB-CG-CD	7.14	127.72	111.30
2	B	383	ALA	N-CA-C	7.14	119.06	111.28
1	A	821	GLU	CA-CB-CG	7.13	128.37	114.10
5	N	209	ALA	N-CA-C	7.13	119.67	111.11
6	V	48	TRP	N-CA-C	7.13	120.78	109.65
5	Y	25	TYR	CA-CB-CG	7.13	126.74	113.90
1	A	465	PHE	N-CA-CB	-7.13	98.92	110.69
5	M	37	HIS	ND1-CE1-NE2	7.13	115.53	108.40
6	O	194	LEU	N-CA-C	7.13	118.70	109.64
5	T	271	HIS	CE1-NE2-CD2	-7.13	101.87	109.00
5	G	118	THR	N-CA-C	7.13	125.99	110.80
6	J	283	SER	N-CA-CB	7.13	120.75	110.06
3	C	202	THR	O-C-N	7.13	131.97	123.27
6	J	635	GLN	O-C-N	7.13	129.71	122.08
6	V	174	ILE	CA-CB-CG2	7.13	122.62	110.50
6	W	63	ILE	O-C-N	7.13	130.19	122.63
6	K	458	THR	N-CA-C	7.13	125.98	110.80
6	U	193	ILE	N-CA-C	-7.13	104.90	111.67
6	X	132	THR	O-C-N	7.13	131.38	123.04
6	I	539	ILE	N-CA-C	7.12	117.88	110.62
6	O	458	THR	N-CA-C	7.12	125.97	110.80
6	P	284	VAL	CB-CA-C	7.12	121.35	112.02
6	P	456	ASN	CA-C-N	7.12	128.74	119.84
6	P	456	ASN	C-N-CA	7.12	128.74	119.84
5	S	4	HIS	CB-CG-ND1	-7.12	112.02	122.70
6	X	430	THR	N-CA-C	7.12	119.95	111.33
1	A	990	THR	N-CA-C	7.12	125.97	110.80
2	B	495	ASN	OD1-CG-ND2	-7.12	115.48	122.60
4	D	211	LEU	N-CA-C	7.12	123.12	111.37
6	Q	561	ASP	O-C-N	7.12	132.06	122.59
6	W	458	THR	N-CA-C	7.12	125.97	110.80
1	A	631	VAL	N-CA-CB	-7.12	102.86	110.62
1	A	1013	ILE	N-CA-C	7.12	117.25	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	1190	LEU	N-CA-C	7.12	121.20	112.23
4	D	75	HIS	N-CA-C	7.12	121.55	113.01
5	Y	231	HIS	CB-CG-CD2	-7.12	121.95	131.20
1	A	879	TYR	N-CA-C	7.12	125.96	110.80
4	E	143	HIS	ND1-CE1-NE2	7.12	115.52	108.40
5	S	105	ASP	CA-CB-CG	7.12	119.72	112.60
5	S	28	THR	CA-CB-CG2	7.12	122.60	110.50
3	C	109	THR	CA-C-N	7.11	127.11	119.78
3	C	109	THR	C-N-CA	7.11	127.11	119.78
6	J	91	MET	N-CA-CB	7.11	121.17	110.22
5	T	37	HIS	ND1-CE1-NE2	7.11	115.51	108.40
5	T	113	PRO	O-C-N	7.11	131.07	123.10
6	X	601	THR	O-C-N	7.11	129.69	122.08
3	C	1045	TRP	CD2-CE2-CZ2	-7.11	115.29	122.40
6	V	456	ASN	CA-C-N	7.11	128.73	119.84
6	V	456	ASN	C-N-CA	7.11	128.73	119.84
6	W	586	VAL	O-C-N	7.11	131.46	122.57
6	I	635	GLN	O-C-N	7.11	129.68	122.08
6	Q	184	LYS	N-CA-C	7.11	119.64	111.11
5	R	198	HIS	CE1-NE2-CD2	-7.11	101.89	109.00
3	C	553	SER	N-CA-C	7.11	121.33	112.24
5	G	1	MET	CA-C-N	7.11	128.72	119.84
5	G	1	MET	C-N-CA	7.11	128.72	119.84
6	W	164	ASP	N-CA-C	7.11	119.93	111.33
6	V	539	ILE	O-C-N	7.10	129.15	121.83
6	X	155	ASP	N-CA-C	7.10	120.06	111.82
6	X	618	THR	O-C-N	7.10	129.68	122.08
5	M	78	ALA	O-C-N	7.10	129.65	122.12
6	O	645	TRP	O-C-N	7.10	126.20	121.23
6	P	161	LYS	N-CA-CB	-7.10	99.36	109.94
2	B	373	ARG	NH1-CZ-NH2	7.10	128.53	119.30
3	C	536	ALA	N-CA-C	7.10	121.20	112.54
6	J	537	SER	CA-CB-OG	7.10	125.30	111.10
6	K	591	LEU	N-CA-C	7.10	120.06	111.82
5	N	198	HIS	CE1-NE2-CD2	-7.10	101.90	109.00
6	P	215	TYR	CA-C-N	7.10	127.09	119.28
6	P	215	TYR	C-N-CA	7.10	127.09	119.28
5	M	238	TYR	N-CA-C	7.10	120.09	108.52
6	Q	283	SER	N-CA-CB	7.10	120.70	110.06
1	A	680	SER	N-CA-C	7.09	119.01	111.28
2	B	279	SER	CA-C-O	7.09	129.31	119.80
6	O	536	THR	CA-CB-OG1	7.09	120.24	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	537	SER	CA-CB-OG	7.09	125.29	111.10
5	T	142	ALA	N-CA-C	7.09	119.87	111.71
3	C	717	MET	N-CA-C	7.09	125.91	110.80
5	H	214	ARG	NH1-CZ-NH2	-7.09	110.08	119.30
6	V	547	HIS	CB-CG-CD2	-7.09	121.98	131.20
6	K	412	ARG	CA-CB-CG	7.09	128.28	114.10
5	T	236	ALA	N-CA-C	7.09	118.66	111.07
6	W	513	HIS	CA-C-N	7.09	130.73	120.38
6	W	513	HIS	C-N-CA	7.09	130.73	120.38
6	Q	197	ASP	N-CA-C	7.09	121.38	112.87
6	W	13	ILE	N-CA-C	7.09	121.97	112.04
5	F	157	HIS	CE1-NE2-CD2	-7.09	101.91	109.00
4	E	77	ASN	CA-CB-CG	7.09	119.69	112.60
5	G	208	VAL	N-CA-C	7.09	119.91	111.05
6	I	458	THR	N-CA-C	7.09	125.89	110.80
6	J	171	THR	N-CA-C	7.09	125.47	109.81
6	V	298	PHE	CE1-CZ-CE2	7.09	132.76	120.00
3	C	833	PRO	N-CA-CB	7.08	110.69	103.25
5	H	105	ASP	CA-CB-CG	7.08	119.69	112.60
6	V	206	GLU	CA-C-O	-7.08	113.38	120.82
5	H	239	GLY	CA-C-O	-7.08	111.39	121.52
6	P	591	LEU	N-CA-C	7.08	120.04	111.82
6	Q	412	ARG	CA-CB-CG	7.08	128.27	114.10
6	J	456	ASN	CA-C-N	7.08	128.69	119.84
6	J	456	ASN	C-N-CA	7.08	128.69	119.84
6	Q	281	PRO	N-CA-C	7.08	122.42	110.95
6	X	213	HIS	ND1-CE1-NE2	7.08	115.48	108.40
2	B	446	ALA	N-CA-C	7.08	120.72	108.76
6	K	333	PRO	CA-C-N	7.08	132.99	121.87
6	K	333	PRO	C-N-CA	7.08	132.99	121.87
6	K	378	THR	CA-CB-OG1	7.08	120.22	109.60
6	P	238	VAL	CA-CB-CG1	7.08	122.44	110.40
6	V	612	SER	CB-CA-C	7.08	123.58	111.68
5	H	231	HIS	CB-CG-CD2	-7.08	122.00	131.20
5	L	28	THR	CA-CB-CG2	7.08	122.53	110.50
6	X	510	VAL	O-C-N	7.08	128.84	121.91
3	C	227	GLN	N-CA-C	7.08	120.20	109.23
3	C	631	ILE	O-C-N	-7.08	114.97	122.68
6	I	20	PHE	O-C-N	7.08	132.02	122.82
6	P	141	GLN	N-CA-C	7.08	118.64	111.07
6	W	421	HIS	ND1-CE1-NE2	7.08	115.47	108.40
3	C	1213	ALA	N-CA-C	7.07	121.01	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	E	138	ILE	O-C-N	7.07	128.73	121.87
5	F	148	CYS	N-CA-C	7.07	120.36	111.24
5	G	30	THR	CA-CB-OG1	7.07	120.21	109.60
6	P	185	SER	N-CA-CB	7.07	120.48	109.94
6	U	421	HIS	ND1-CE1-NE2	7.07	115.47	108.40
6	V	458	THR	N-CA-C	7.07	125.87	110.80
6	W	604	VAL	N-CA-C	7.07	118.68	110.62
2	B	992	ASN	N-CA-C	7.07	120.51	110.68
3	C	830	ASN	CA-CB-CG	7.07	119.67	112.60
4	D	119	LEU	N-CA-C	7.07	120.21	110.24
5	G	216	ILE	CA-CB-CG1	7.07	122.42	110.40
6	K	634	LYS	N-CA-C	7.07	118.64	111.07
5	L	147	HIS	CG-CD2-NE2	7.07	114.27	107.20
6	W	412	ARG	CB-CG-CD	7.07	127.56	111.30
6	X	481	VAL	N-CA-C	7.07	119.74	108.85
3	C	146	THR	N-CA-C	7.07	121.14	111.17
3	C	423	CYS	N-CA-C	7.07	119.88	111.33
6	O	297	ALA	CA-C-O	7.07	130.62	120.51
6	O	472	ARG	CG-CD-NE	7.07	127.55	112.00
6	O	573	ALA	CA-C-N	7.07	129.63	120.44
6	O	573	ALA	C-N-CA	7.07	129.63	120.44
6	P	412	ARG	CB-CG-CD	7.07	127.55	111.30
6	U	466	VAL	CB-CA-C	7.07	122.72	111.69
6	W	457	PRO	N-CA-CB	7.07	110.67	103.25
4	E	50	SER	N-CA-C	7.07	120.00	108.55
6	P	283	SER	CA-C-N	7.07	129.60	120.56
6	P	283	SER	C-N-CA	7.07	129.60	120.56
6	U	107	VAL	O-C-N	7.07	131.40	122.57
6	U	289	LEU	N-CA-C	7.07	120.96	109.59
3	C	189	ASN	OD1-CG-ND2	-7.06	115.54	122.60
6	J	28	SER	CA-C-O	-7.06	110.41	120.51
6	V	537	SER	CA-CB-OG	7.06	125.23	111.10
6	W	132	THR	O-C-N	7.06	131.30	123.04
6	V	513	HIS	CA-C-N	7.06	130.69	120.38
6	V	513	HIS	C-N-CA	7.06	130.69	120.38
6	W	330	GLN	N-CA-C	7.06	121.28	112.24
3	C	1169	TRP	CE2-CD2-CE3	7.06	125.86	118.80
5	G	234	ARG	NE-CZ-NH2	7.06	125.55	119.20
5	H	113	PRO	O-C-N	7.06	131.01	123.10
6	J	238	VAL	CA-CB-CG1	7.06	122.40	110.40
5	T	216	ILE	CA-CB-CG1	7.06	122.40	110.40
6	V	378	THR	CA-CB-OG1	7.06	120.19	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	M	198	HIS	CA-CB-CG	7.06	120.86	113.80
3	C	287	GLN	CA-CB-CG	7.06	128.21	114.10
4	D	387	GLN	O-C-N	7.06	127.17	121.38
6	J	412	ARG	CB-CG-CD	7.06	127.53	111.30
6	K	330	GLN	N-CA-C	7.06	121.27	112.24
6	V	168	THR	N-CA-C	7.06	122.02	113.41
3	C	561	PRO	CA-C-N	7.05	129.73	120.28
3	C	561	PRO	C-N-CA	7.05	129.73	120.28
6	I	472	ARG	CG-CD-NE	7.05	127.52	112.00
6	O	411	VAL	CG1-CB-CG2	-7.05	95.28	110.80
2	B	1130	ALA	N-CA-C	7.05	120.45	109.52
5	M	30	THR	CA-CB-OG1	7.05	120.18	109.60
6	X	585	GLN	CB-CA-C	7.05	122.00	110.22
5	F	25	TYR	CA-CB-CG	7.05	126.59	113.90
6	K	539	ILE	O-C-N	7.05	129.77	121.80
5	L	223	THR	N-CA-C	7.05	120.34	111.24
5	S	102	HIS	CB-CG-CD2	-7.05	122.03	131.20
6	Q	161	LYS	N-CA-CB	-7.05	99.44	109.94
4	E	169	ALA	N-CA-CB	7.05	120.53	109.82
2	B	537	TYR	N-CA-C	7.05	119.90	110.88
5	G	147	HIS	CG-CD2-NE2	7.05	114.25	107.20
6	U	281	PRO	N-CA-C	7.05	122.36	110.95
6	V	338	VAL	CA-CB-CG2	7.05	122.38	110.40
4	D	293	VAL	N-CA-C	7.04	118.68	111.00
5	R	21	ARG	NE-CZ-NH1	-7.04	114.45	121.50
1	A	945	ASP	CA-CB-CG	7.04	119.64	112.60
2	B	516	ARG	O-C-N	7.04	129.59	122.12
4	D	408	GLN	N-CA-C	7.04	118.61	111.07
6	V	561	ASP	O-C-N	7.04	131.96	122.59
1	A	20	ARG	N-CA-CB	-7.04	99.69	110.04
1	A	418	TYR	CB-CA-C	7.04	121.93	110.88
2	B	848	ASN	OD1-CG-ND2	-7.04	115.56	122.60
4	D	37	TRP	O-C-N	7.04	131.68	123.30
5	F	271	HIS	CE1-NE2-CD2	-7.04	101.96	109.00
6	K	168	THR	CA-CB-CG2	7.04	122.47	110.50
6	X	185	SER	N-CA-CB	7.04	120.43	109.94
3	C	505	THR	CA-C-N	7.04	134.98	121.54
3	C	505	THR	C-N-CA	7.04	134.98	121.54
3	C	649	ASN	OD1-CG-ND2	-7.04	115.56	122.60
6	O	386	THR	N-CA-C	7.04	122.00	113.41
3	C	658	TYR	CA-CB-CG	7.04	126.57	113.90
4	D	124	ASN	OD1-CG-ND2	-7.04	115.56	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	K	203	TYR	CB-CG-CD1	-7.04	110.24	120.80
6	W	472	ARG	CG-CD-NE	7.04	127.48	112.00
1	A	223	GLY	O-C-N	7.04	128.81	121.77
1	A	484	ASP	N-CA-C	7.04	121.94	111.81
5	L	276	ASP	CA-CB-CG	7.04	119.64	112.60
6	P	610	THR	N-CA-C	7.04	121.17	112.59
6	K	338	VAL	CA-CB-CG2	7.03	122.36	110.40
6	U	386	THR	N-CA-C	7.03	122.53	113.88
1	A	1283	GLN	OE1-CD-NE2	7.03	129.63	122.60
2	B	224	TRP	N-CA-C	7.03	119.80	111.71
3	C	461	ASN	CA-CB-CG	7.03	119.63	112.60
6	O	591	LEU	N-CA-C	7.03	119.98	111.82
6	O	632	VAL	N-CA-C	7.03	117.54	110.23
6	W	591	LEU	N-CA-C	7.03	119.98	111.82
3	C	1050	ASP	O-C-N	7.03	130.22	122.20
4	D	412	VAL	CA-CB-CG1	7.03	122.35	110.40
2	B	418	GLN	N-CA-C	7.03	122.97	111.37
2	B	967	THR	CA-CB-OG1	7.03	120.14	109.60
5	M	231	HIS	CB-CG-CD2	-7.03	122.06	131.20
1	A	15	THR	CA-CB-OG1	7.03	120.14	109.60
3	C	440	ILE	O-C-N	7.03	130.98	122.83
6	K	29	THR	N-CA-CB	7.03	122.37	110.49
6	Q	252	LEU	N-CA-C	7.03	118.59	111.07
6	W	20	PHE	O-C-N	7.03	131.96	122.82
6	X	330	GLN	N-CA-C	7.03	121.23	112.24
3	C	261	VAL	N-CA-CB	7.03	119.49	111.90
6	J	331	LEU	O-C-N	7.03	131.93	122.59
6	K	283	SER	N-CA-CB	7.03	120.60	110.06
5	N	231	HIS	CB-CG-CD2	-7.03	122.07	131.20
1	A	942	SER	N-CA-CB	7.02	120.43	109.83
6	W	90	ASN	CA-CB-CG	7.02	119.62	112.60
6	W	197	ASP	N-CA-C	7.02	121.30	112.87
6	V	466	VAL	CB-CA-C	7.02	122.64	111.69
3	C	973	ASN	CA-CB-CG	7.02	119.62	112.60
3	C	990	ASN	N-CA-C	7.02	119.78	111.71
4	E	95	PRO	CA-C-O	7.02	130.22	119.55
6	J	561	ASP	O-C-N	7.02	131.93	122.59
6	J	604	VAL	N-CA-C	7.02	118.62	110.62
6	K	389	ALA	N-CA-C	7.02	119.82	111.33
5	S	180	HIS	N-CA-C	7.02	118.20	109.57
6	U	238	VAL	CA-CB-CG1	7.02	122.33	110.40
6	Q	142	ILE	O-C-N	7.02	128.68	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	Q	643	SER	N-CA-C	7.02	118.93	111.28
6	V	412	ARG	CB-CG-CD	7.02	127.44	111.30
5	Y	28	THR	CA-CB-CG2	7.02	122.43	110.50
5	Y	110	PHE	O-C-N	7.02	132.02	122.48
5	F	234	ARG	NE-CZ-NH2	7.02	125.51	119.20
1	A	724	VAL	N-CA-C	7.01	120.85	111.17
1	A	1140	PRO	N-CA-C	7.01	119.26	110.70
2	B	607	HIS	CB-CG-ND1	7.01	133.22	122.70
6	P	213	HIS	ND1-CE1-NE2	7.01	115.41	108.40
6	P	612	SER	CB-CA-C	7.01	123.46	111.68
5	R	148	CYS	N-CA-C	7.01	120.29	111.24
6	J	542	ARG	CB-CG-CD	7.01	127.43	111.30
6	W	281	PRO	N-CA-C	7.01	122.31	110.95
5	G	21	ARG	NE-CZ-NH1	-7.01	114.49	121.50
5	L	169	ASN	CA-C-O	7.01	127.82	119.06
6	K	197	ASP	N-CA-C	7.01	121.28	112.87
6	P	281	PRO	N-CA-C	7.01	122.30	110.95
5	M	239	GLY	CA-C-O	-7.01	111.50	121.52
1	A	592	MET	CA-C-N	7.00	128.60	119.84
1	A	592	MET	C-N-CA	7.00	128.60	119.84
1	A	682	TYR	CA-CB-CG	7.00	126.51	113.90
4	E	154	GLY	CA-C-N	7.00	128.60	119.84
4	E	154	GLY	C-N-CA	7.00	128.60	119.84
6	I	297	ALA	CA-C-O	7.00	130.53	120.51
1	A	1195	VAL	O-C-N	7.00	130.48	122.64
5	F	236	ALA	N-CA-C	7.00	118.56	111.07
5	H	223	THR	N-CA-C	7.00	120.27	111.24
6	K	87	PHE	N-CA-C	7.00	118.99	111.36
6	K	223	PRO	O-C-N	7.00	129.74	122.18
5	M	21	ARG	NE-CZ-NH1	-7.00	114.50	121.50
6	Q	539	ILE	O-C-N	7.00	129.71	121.80
1	A	1249	HIS	CA-CB-CG	7.00	120.80	113.80
3	C	659	GLY	N-CA-C	7.00	124.40	112.22
3	C	1092	ILE	N-CA-C	7.00	118.68	108.53
5	H	271	HIS	ND1-CE1-NE2	7.00	115.40	108.40
5	H	276	ASP	CA-CB-CG	7.00	119.60	112.60
6	P	132	THR	O-C-N	7.00	131.23	123.04
1	A	481	ALA	CA-C-O	7.00	126.08	119.99
5	G	44	GLY	O-C-N	7.00	131.80	122.70
6	P	81	THR	O-C-N	7.00	129.31	122.03
3	C	237	GLU	CA-C-N	7.00	129.52	122.66
3	C	237	GLU	C-N-CA	7.00	129.52	122.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	D	349	ALA	CA-C-O	-7.00	113.13	120.55
6	I	90	ASN	CA-CB-CG	7.00	119.60	112.60
6	Q	55	VAL	O-C-N	7.00	131.32	122.57
5	R	132	THR	CA-C-O	-7.00	112.37	120.49
6	V	161	LYS	N-CA-CB	-7.00	99.51	109.94
6	V	278	THR	O-C-N	-7.00	112.67	121.70
2	B	210	ILE	CA-CB-CG1	7.00	122.29	110.40
2	B	310	LYS	N-CA-CB	7.00	122.33	110.71
2	B	741	THR	CA-C-N	7.00	129.65	120.28
2	B	741	THR	C-N-CA	7.00	129.65	120.28
6	K	199	LEU	N-CA-C	7.00	119.76	111.71
6	K	303	ASP	CA-CB-CG	7.00	119.60	112.60
3	C	97	ALA	CA-C-O	-7.00	112.69	120.60
4	D	66	ILE	CB-CA-C	7.00	120.92	111.97
6	I	409	ILE	CA-C-O	7.00	129.52	120.78
6	K	386	THR	N-CA-C	7.00	122.48	113.88
6	Q	585	GLN	CB-CG-CD	7.00	124.49	112.60
6	W	338	VAL	CA-CB-CG2	7.00	122.29	110.40
2	B	275	LYS	CA-C-O	6.99	127.43	119.18
3	C	559	HIS	CB-CG-ND1	6.99	133.19	122.70
5	F	216	ILE	CA-CB-CG1	6.99	122.29	110.40
6	Q	546	GLN	N-CA-C	6.99	119.75	111.71
6	U	161	LYS	N-CA-CB	-6.99	99.52	109.94
6	U	185	SER	N-CA-CB	6.99	120.36	109.94
6	J	185	SER	N-CA-CB	6.99	120.36	109.94
5	R	238	TYR	N-CA-C	6.99	119.92	108.52
6	W	333	PRO	CA-C-N	6.99	132.85	121.87
6	W	333	PRO	C-N-CA	6.99	132.85	121.87
1	A	319	GLN	OE1-CD-NE2	-6.99	115.61	122.60
5	M	223	THR	N-CA-C	6.99	120.26	111.24
6	U	160	GLN	CA-CB-CG	6.99	128.08	114.10
1	A	537	ILE	N-CA-C	6.99	117.70	110.36
1	A	615	VAL	CA-CB-CG2	6.99	122.28	110.40
6	O	542	ARG	CB-CG-CD	6.99	127.38	111.30
5	R	216	ILE	CA-CB-CG1	6.99	122.28	110.40
6	X	223	PRO	O-C-N	6.99	129.73	122.18
1	A	504	THR	N-CA-C	6.99	120.69	111.75
5	G	157	HIS	CE1-NE2-CD2	-6.99	102.01	109.00
6	I	378	THR	CA-CB-OG1	6.99	120.08	109.60
1	A	141	ASP	CA-C-O	-6.99	114.75	119.29
5	G	136	ASP	CA-CB-CG	6.98	119.58	112.60
6	O	29	THR	CA-C-N	6.98	133.84	122.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	O	29	THR	C-N-CA	6.98	133.84	122.39
6	U	142	ILE	O-C-N	6.98	128.65	121.87
1	A	507	ASN	CA-C-N	6.98	128.57	119.84
1	A	507	ASN	C-N-CA	6.98	128.57	119.84
3	C	166	ASP	N-CA-C	6.98	120.73	107.75
3	C	792	GLN	CB-CA-C	-6.98	102.18	111.74
3	C	945	VAL	O-C-N	6.98	130.74	123.20
2	B	269	SER	N-CA-C	6.98	119.20	109.15
4	D	278	ILE	N-CA-CB	6.98	121.50	110.54
6	K	297	ALA	CB-CA-C	6.98	124.31	110.42
5	T	276	ASP	CA-CB-CG	6.98	119.58	112.60
6	X	536	THR	CA-CB-OG1	6.98	120.07	109.60
2	B	397	HIS	CB-CG-CD2	-6.98	122.13	131.20
6	K	81	THR	O-C-N	6.98	129.55	122.08
6	V	238	VAL	CA-CB-CG1	6.98	122.26	110.40
1	A	799	LEU	N-CA-C	6.97	118.53	111.07
2	B	649	ASN	N-CA-C	6.97	122.65	113.30
4	E	274	TRP	CG-CD2-CE3	-6.97	126.92	133.90
6	J	199	LEU	N-CA-C	6.97	119.73	111.71
6	K	632	VAL	N-CA-C	6.97	117.48	110.23
5	T	147	HIS	ND1-CE1-NE2	6.97	115.38	108.40
6	U	29	THR	CA-C-N	6.97	133.83	122.39
6	U	29	THR	C-N-CA	6.97	133.83	122.39
5	F	30	THR	CA-CB-OG1	6.97	120.06	109.60
5	N	1	MET	CA-C-N	6.97	128.56	119.84
5	N	1	MET	C-N-CA	6.97	128.56	119.84
6	U	458	THR	N-CA-C	6.97	125.65	110.80
6	U	542	ARG	CB-CG-CD	6.97	127.34	111.30
6	U	550	SER	N-CA-CB	6.97	122.02	110.52
6	W	481	VAL	N-CA-C	6.97	119.59	108.85
5	Y	37	HIS	ND1-CE1-NE2	6.97	115.37	108.40
1	A	566	LEU	N-CA-C	6.97	118.88	111.28
2	B	397	HIS	CA-C-O	6.97	128.36	120.90
5	L	198	HIS	CA-CB-CG	6.97	120.77	113.80
6	U	141	GLN	N-CA-C	6.97	118.53	111.07
1	A	711	ASP	CA-CB-CG	6.97	119.57	112.60
6	J	536	THR	CA-CB-OG1	6.97	120.05	109.60
3	C	734	THR	O-C-N	6.97	129.51	122.12
1	A	1281	ALA	N-CA-C	6.97	120.51	109.50
4	E	133	SER	N-CA-C	6.97	125.64	110.80
5	M	31	GLU	CA-C-O	-6.97	112.65	120.66
6	P	206	GLU	CA-C-O	-6.97	113.50	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	E	186	ALA	N-CA-C	6.96	119.47	111.11
5	G	236	ALA	N-CA-C	6.96	118.52	111.07
3	C	1045	TRP	CE2-CD2-CE3	6.96	125.76	118.80
1	A	1177	ASN	O-C-N	6.96	127.09	121.38
2	B	1131	ARG	O-C-N	6.96	131.16	123.22
3	C	793	ARG	O-C-N	6.96	131.85	122.59
6	O	510	VAL	O-C-N	6.96	129.14	121.90
6	Q	390	ASN	N-CA-C	6.96	118.87	111.28
5	T	8	GLN	OE1-CD-NE2	6.96	129.56	122.60
4	D	368	ARG	CA-C-O	6.96	128.13	120.82
5	L	221	LEU	CA-C-O	-6.96	113.53	120.70
1	A	412	GLN	N-CA-C	6.96	119.75	111.33
2	B	822	MET	N-CA-C	6.96	119.75	111.33
5	H	28	THR	CA-CB-CG2	6.96	122.33	110.50
5	H	152	HIS	ND1-CE1-NE2	6.96	115.36	108.40
1	A	949	ILE	N-CA-C	6.96	118.15	107.99
3	C	78	ILE	N-CA-CB	-6.96	104.02	111.46
4	E	120	LEU	CA-C-N	6.96	131.73	122.06
4	E	120	LEU	C-N-CA	6.96	131.73	122.06
5	F	4	HIS	ND1-CG-CD2	6.96	113.06	106.10
6	J	550	SER	N-CA-CB	6.96	122.00	110.52
6	K	184	LYS	N-CA-C	6.96	119.46	111.11
6	Q	142	ILE	N-CA-CB	6.96	120.00	110.54
5	Y	132	THR	CA-C-O	-6.96	112.42	120.49
2	B	299	LEU	N-CA-C	6.95	118.94	111.36
5	L	239	GLY	CA-C-O	-6.95	111.58	121.52
6	U	223	PRO	O-C-N	6.95	129.69	122.18
3	C	476	LEU	N-CA-C	6.95	118.86	111.28
6	J	154	ARG	CG-CD-NE	6.95	127.29	112.00
5	M	271	HIS	CE1-NE2-CD2	-6.95	102.05	109.00
6	P	607	ALA	N-CA-C	6.95	118.86	111.28
6	V	13	ILE	N-CA-C	6.95	121.77	112.04
6	X	542	ARG	CB-CG-CD	6.95	127.29	111.30
4	D	127	THR	O-C-N	6.95	129.23	122.07
4	D	263	GLN	CA-C-O	6.95	127.96	120.32
5	R	138	SER	N-CA-C	6.95	125.60	110.80
5	T	271	HIS	ND1-CE1-NE2	6.95	115.35	108.40
6	V	187	LEU	N-CA-C	6.95	119.74	111.33
1	A	132	ASP	CA-CB-CG	6.95	119.55	112.60
3	C	270	SER	N-CA-CB	-6.95	98.19	110.42
5	N	238	TYR	N-CA-C	6.95	119.84	108.52
4	E	232	PHE	N-CA-C	6.95	120.45	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	338	VAL	CA-CB-CG2	6.95	122.21	110.40
6	J	564	LEU	CA-C-N	6.95	130.15	120.29
6	J	564	LEU	C-N-CA	6.95	130.15	120.29
6	O	378	THR	CA-CB-OG1	6.95	120.02	109.60
6	W	283	SER	N-CA-CB	6.95	120.48	110.06
6	X	513	HIS	CA-C-N	6.95	130.52	120.38
6	X	513	HIS	C-N-CA	6.95	130.52	120.38
3	C	465	ASN	CA-CB-CG	6.94	119.54	112.60
4	E	28	GLU	CB-CG-CD	6.94	124.41	112.60
6	P	634	LYS	N-CA-C	6.94	118.50	111.07
5	S	198	HIS	CA-CB-CG	6.94	120.74	113.80
3	C	78	ILE	CB-CA-C	6.94	118.92	111.35
4	E	390	ASN	OD1-CG-ND2	6.94	129.54	122.60
5	R	157	HIS	CE1-NE2-CD2	-6.94	102.06	109.00
6	V	63	ILE	O-C-N	6.94	129.99	122.63
1	A	376	PHE	CA-CB-CG	6.94	120.74	113.80
2	B	954	PRO	CA-N-CD	-6.94	102.28	112.00
3	C	702	SER	N-CA-C	6.94	122.75	111.37
5	R	223	THR	N-CA-C	6.94	120.19	111.24
1	A	1027	HIS	CE1-NE2-CD2	-6.94	102.06	109.00
4	E	153	GLN	N-CA-C	6.94	118.64	108.86
6	J	329	VAL	CA-C-O	6.94	128.45	119.85
6	Q	242	PHE	CB-CG-CD2	-6.94	108.91	120.70
6	V	528	ALA	O-C-N	6.94	131.82	122.59
1	A	1169	LYS	N-CA-CB	-6.94	98.76	110.83
1	A	418	TYR	N-CA-C	6.93	118.49	111.07
1	A	764	THR	N-CA-C	6.93	120.46	109.50
1	A	1037	VAL	N-CA-C	6.93	117.86	107.80
5	F	118	THR	N-CA-C	6.93	125.57	110.80
5	M	208	VAL	N-CA-C	6.93	119.72	111.05
6	U	378	THR	CA-CB-OG1	6.93	120.00	109.60
6	I	331	LEU	O-C-N	6.93	131.81	122.59
6	J	55	VAL	O-C-N	6.93	131.24	122.57
5	L	208	VAL	N-CA-C	6.93	119.72	111.05
5	S	208	VAL	N-CA-C	6.93	119.72	111.05
6	W	632	VAL	N-CA-C	6.93	117.44	110.23
1	A	760	TYR	N-CA-C	6.93	120.19	108.90
6	J	283	SER	CA-C-N	6.93	129.43	120.56
6	J	283	SER	C-N-CA	6.93	129.43	120.56
3	C	1207	ILE	CB-CA-C	6.93	121.15	110.83
6	Q	412	ARG	CB-CG-CD	6.93	127.23	111.30
6	W	203	TYR	CB-CG-CD1	-6.93	110.41	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	O	421	HIS	ND1-CE1-NE2	6.93	115.33	108.40
5	T	209	ALA	N-CA-C	6.93	119.71	111.33
6	W	206	GLU	CA-C-O	-6.93	113.55	120.82
6	J	248	GLU	CA-CB-CG	6.92	127.95	114.10
6	J	281	PRO	N-CA-C	6.92	122.17	110.95
6	P	564	LEU	CA-C-N	6.92	130.12	120.29
6	P	564	LEU	C-N-CA	6.92	130.12	120.29
5	T	238	TYR	N-CA-C	6.92	119.81	108.52
1	A	880	SER	N-CA-C	6.92	119.67	111.71
2	B	732	VAL	CA-CB-CG2	6.92	122.17	110.40
6	I	238	VAL	CA-CB-CG1	6.92	122.17	110.40
5	M	138	SER	N-CA-C	6.92	125.54	110.80
6	O	24	SER	N-CA-C	6.92	120.61	111.75
6	Q	542	ARG	CB-CG-CD	6.92	127.22	111.30
1	A	803	GLU	N-CA-C	6.92	119.08	108.42
1	A	1241	LEU	N-CA-C	6.92	125.10	109.81
5	G	105	ASP	CA-CB-CG	6.92	119.52	112.60
3	C	468	ALA	N-CA-C	6.92	118.82	111.28
4	D	237	ALA	O-C-N	6.92	131.68	122.96
5	H	208	VAL	N-CA-C	6.92	119.70	111.05
5	F	213	THR	CA-CB-OG1	6.92	119.97	109.60
5	M	216	ILE	CA-CB-CG1	6.92	122.16	110.40
5	T	105	ASP	CA-CB-CG	6.92	119.52	112.60
6	Q	378	THR	CA-CB-OG1	6.92	119.97	109.60
5	H	198	HIS	CA-CB-CG	6.91	120.71	113.80
6	Q	512	ASN	OD1-CG-ND2	-6.91	115.69	122.60
6	Q	213	HIS	ND1-CE1-NE2	6.91	115.31	108.40
6	I	55	VAL	O-C-N	6.91	131.21	122.57
6	O	203	TYR	CB-CG-CD1	-6.91	110.44	120.80
6	W	242	PHE	CB-CG-CD2	-6.91	108.95	120.70
6	O	43	PRO	CA-C-N	6.91	134.13	121.70
6	O	43	PRO	C-N-CA	6.91	134.13	121.70
6	P	625	ARG	NE-CZ-NH2	6.91	125.42	119.20
5	R	118	THR	N-CA-C	6.91	125.51	110.80
5	S	198	HIS	CE1-NE2-CD2	-6.91	102.09	109.00
6	X	378	THR	CA-CB-OG1	6.91	119.96	109.60
6	X	494	THR	CA-C-O	-6.91	113.12	121.89
4	E	210	TRP	N-CA-C	6.91	118.89	111.36
6	J	174	ILE	CA-CB-CG2	6.91	122.24	110.50
6	O	171	THR	N-CA-C	6.91	125.07	109.81
1	A	550	ARG	NH1-CZ-NH2	-6.91	110.32	119.30
3	C	1107	ILE	CA-C-O	6.91	127.80	120.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	213	HIS	ND1-CE1-NE2	6.91	115.31	108.40
5	S	37	HIS	ND1-CE1-NE2	6.91	115.31	108.40
5	T	118	THR	N-CA-C	6.91	125.51	110.80
6	W	252	LEU	N-CA-C	6.91	118.46	111.07
1	A	236	GLY	O-C-N	6.90	128.67	121.77
1	A	315	VAL	CG1-CB-CG2	-6.90	95.61	110.80
5	S	118	THR	N-CA-C	6.90	125.50	110.80
6	U	184	LYS	N-CA-C	6.90	119.39	111.11
6	U	197	ASP	N-CA-C	6.90	121.15	112.87
6	W	297	ALA	CB-CA-C	6.90	124.16	110.42
6	W	378	THR	CA-CB-OG1	6.90	119.95	109.60
4	D	207	THR	CA-CB-OG1	6.90	119.95	109.60
6	I	481	VAL	N-CA-C	6.90	119.48	108.85
6	P	152	ARG	O-C-N	6.90	129.18	122.07
5	R	11	HIS	N-CA-C	6.90	119.39	111.11
6	W	174	ILE	CA-CB-CG2	6.90	122.23	110.50
2	B	214	HIS	CE1-NE2-CD2	-6.90	102.10	109.00
6	J	634	LYS	N-CA-C	6.90	118.45	111.07
1	A	540	GLY	CA-C-N	-6.90	112.89	123.17
1	A	540	GLY	C-N-CA	-6.90	112.89	123.17
6	Q	90	ASN	CA-CB-CG	6.90	119.50	112.60
5	L	238	TYR	N-CA-C	6.90	119.76	108.52
1	A	82	ARG	NE-CZ-NH1	6.89	128.39	121.50
4	D	175	MET	O-C-N	6.89	130.29	122.22
6	K	205	ASN	CA-CB-CG	-6.89	105.70	112.60
6	Q	31	ALA	O-C-N	6.89	128.20	120.68
5	S	29	ARG	NE-CZ-NH2	6.89	125.40	119.20
1	A	533	ILE	N-CA-C	6.89	118.48	110.62
3	C	581	SER	N-CA-C	6.89	125.04	109.81
4	D	136	TRP	CA-CB-CG	6.89	126.70	113.60
4	E	373	MET	O-C-N	6.89	130.01	122.15
5	G	48	ILE	N-CA-C	6.89	118.67	109.37
6	I	242	PHE	CB-CG-CD2	-6.89	108.98	120.70
6	Q	289	LEU	N-CA-C	6.89	120.69	109.59
6	W	116	SER	O-C-N	6.89	132.10	123.14
3	C	783	VAL	N-CA-C	6.89	118.24	107.28
6	J	612	SER	CB-CA-C	6.89	123.26	111.68
6	Q	520	VAL	O-C-N	6.89	128.66	121.91
1	A	92	ALA	N-CA-C	6.89	118.79	111.28
2	B	1091	GLN	N-CA-C	6.89	121.54	113.20
5	L	105	ASP	CA-CB-CG	6.89	119.49	112.60
5	R	78	ALA	O-C-N	6.89	129.42	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	X	635	GLN	O-C-N	6.89	129.45	122.08
1	A	685	ASN	OD1-CG-ND2	-6.89	115.71	122.60
5	T	78	ALA	O-C-N	6.89	129.42	122.12
4	E	195	GLN	CG-CD-NE2	-6.89	106.07	116.40
6	U	242	PHE	CB-CG-CD2	-6.89	108.99	120.70
6	J	579	ASN	OD1-CG-ND2	-6.88	115.72	122.60
6	K	247	SER	O-C-N	6.88	130.05	122.20
6	U	539	ILE	N-CA-C	6.88	117.67	110.72
6	W	129	ASN	OD1-CG-ND2	-6.88	115.72	122.60
5	Y	198	HIS	CA-CB-CG	6.88	120.68	113.80
3	C	335	GLY	O-C-N	6.88	131.65	122.70
6	I	299	ILE	CB-CA-C	6.88	122.58	111.29
6	P	645	TRP	O-C-N	6.88	126.05	121.23
6	Q	601	THR	CB-CA-C	6.88	121.86	110.92
1	A	1112	LEU	N-CA-C	6.88	119.70	109.59
6	I	152	ARG	O-C-N	6.88	129.16	122.07
6	I	474	THR	CA-CB-OG1	6.88	119.92	109.60
6	I	374	VAL	CA-C-O	-6.88	113.24	120.39
5	L	132	THR	CA-CB-OG1	6.88	119.92	109.60
5	L	234	ARG	NE-CZ-NH2	6.88	125.39	119.20
6	W	303	ASP	CA-CB-CG	6.88	119.48	112.60
6	W	634	LYS	N-CA-C	6.88	118.43	111.07
1	A	198	ARG	NH1-CZ-NH2	-6.88	110.36	119.30
1	A	930	TRP	CA-CB-CG	6.88	126.67	113.60
2	B	598	PRO	CB-CA-C	-6.88	102.43	111.23
2	B	979	ARG	CD-NE-CZ	6.88	134.03	124.40
3	C	509	SER	N-CA-CB	6.88	122.61	110.37
5	N	4	HIS	CE1-NE2-CD2	-6.88	102.12	109.00
6	O	48	TRP	N-CA-C	6.88	120.38	109.65
6	O	648	LYS	CB-CG-CD	6.88	127.12	111.30
6	P	144	ASN	O-C-N	-6.88	114.31	122.15
6	W	601	THR	O-C-N	6.88	129.44	122.08
6	X	474	THR	CA-CB-OG1	6.88	119.92	109.60
3	C	470	LEU	CA-C-N	6.88	127.16	119.32
3	C	470	LEU	C-N-CA	6.88	127.16	119.32
1	A	539	SER	N-CA-C	6.87	121.41	112.89
2	B	910	LYS	O-C-N	6.87	129.24	122.09
3	C	26	ASP	N-CA-C	6.87	119.65	111.33
6	O	539	ILE	O-C-N	6.87	129.57	121.80
6	W	303	ASP	CA-C-O	6.87	127.64	119.60
1	A	261	LEU	CD1-CG-CD2	-6.87	95.68	110.80
2	B	985	VAL	CA-C-O	-6.87	113.08	120.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	K	281	PRO	N-CA-CB	6.87	109.29	103.17
5	N	216	ILE	CA-CB-CG1	6.87	122.08	110.40
6	P	542	ARG	CB-CG-CD	6.87	127.11	111.30
6	W	643	SER	N-CA-C	6.87	118.77	111.28
2	B	324	ILE	CA-C-O	6.87	127.89	119.58
5	S	157	HIS	CE1-NE2-CD2	-6.87	102.13	109.00
6	J	632	VAL	N-CA-C	6.87	117.37	110.23
6	U	618	THR	O-C-N	6.87	129.43	122.08
6	K	474	THR	CA-CB-OG1	6.87	119.90	109.60
5	S	171	HIS	CA-C-O	-6.87	111.98	118.44
1	A	1152	ASP	CA-CB-CG	6.87	119.47	112.60
4	D	55	SER	O-C-N	-6.87	116.05	123.26
4	D	219	LEU	N-CA-C	6.87	119.61	111.71
5	L	209	ALA	N-CA-C	6.87	119.64	111.33
6	W	210	VAL	N-CA-CB	6.87	118.10	110.62
2	B	404	MET	CA-CB-CG	-6.86	100.38	114.10
5	G	64	THR	N-CA-C	6.86	118.41	111.07
5	H	1	MET	CA-C-N	6.86	128.42	119.84
5	H	1	MET	C-N-CA	6.86	128.42	119.84
5	R	105	ASP	CA-CB-CG	6.86	119.46	112.60
6	J	618	THR	O-C-N	6.86	129.42	122.08
6	U	252	LEU	N-CA-C	6.86	118.41	111.07
6	W	155	ASP	N-CA-C	6.86	120.88	112.23
2	B	317	PHE	N-CA-C	6.86	120.35	108.76
3	C	280	ARG	NE-CZ-NH2	6.86	125.38	119.20
3	C	392	ASP	N-CA-C	6.86	119.93	108.20
6	V	330	GLN	N-CA-C	6.86	121.02	112.24
6	X	648	LYS	CB-CG-CD	6.86	127.08	111.30
6	Q	199	LEU	N-CA-C	6.86	119.60	111.71
1	A	889	ARG	NH1-CZ-NH2	-6.86	110.39	119.30
2	B	594	ALA	CB-CA-C	6.86	121.09	110.67
3	C	1131	ARG	NE-CZ-NH2	6.86	125.37	119.20
6	Q	29	THR	N-CA-CB	6.86	122.08	110.49
6	W	412	ARG	CA-CB-CG	6.86	127.81	114.10
1	A	811	VAL	O-C-N	6.86	129.03	121.90
3	C	1197	TYR	N-CA-C	6.86	120.57	109.40
6	J	634	LYS	O-C-N	6.86	129.13	122.07
6	K	586	VAL	O-C-N	6.86	131.14	122.57
6	O	160	GLN	CA-CB-CG	6.86	127.81	114.10
6	V	421	HIS	ND1-CE1-NE2	6.86	115.25	108.40
6	W	474	THR	CA-CB-OG1	6.86	119.88	109.60
6	P	199	LEU	N-CA-C	6.85	119.59	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	837	GLY	CA-C-N	6.85	127.13	119.32
1	A	837	GLY	C-N-CA	6.85	127.13	119.32
2	B	564	TRP	CD2-CE2-CZ2	-6.85	115.55	122.40
6	I	174	ILE	CA-CB-CG2	6.85	122.15	110.50
5	N	118	THR	N-CA-C	6.85	125.39	110.80
6	Q	472	ARG	CG-CD-NE	6.85	127.08	112.00
6	X	466	VAL	O-C-N	6.85	129.99	122.66
5	N	234	ARG	NE-CZ-NH2	6.85	125.37	119.20
1	A	380	ASN	CA-CB-CG	6.85	119.45	112.60
1	A	891	ASP	CA-CB-CG	6.85	119.45	112.60
1	A	1140	PRO	CB-CA-C	6.85	119.28	110.92
1	A	1204	LEU	CA-C-O	-6.85	113.45	120.71
6	Q	586	VAL	O-C-N	6.85	131.13	122.57
2	B	648	ALA	CA-C-O	6.85	127.84	120.24
2	B	836	HIS	CB-CG-CD2	-6.85	122.30	131.20
2	B	836	HIS	CG-CD2-NE2	-6.85	100.35	107.20
6	I	87	PHE	N-CA-C	6.85	118.82	111.36
5	L	271	HIS	ND1-CE1-NE2	6.85	115.25	108.40
6	Q	43	PRO	CA-C-N	6.85	134.03	121.70
6	Q	43	PRO	C-N-CA	6.85	134.03	121.70
6	Q	174	ILE	CA-CB-CG2	6.85	122.14	110.50
5	L	253	CYS	N-CA-C	6.85	118.40	111.07
5	M	271	HIS	ND1-CE1-NE2	6.85	115.25	108.40
6	X	42	ASN	CA-CB-CG	6.85	119.45	112.60
3	C	81	ARG	CB-CA-C	6.84	118.55	109.65
6	V	585	GLN	CB-CG-CD	6.84	124.23	112.60
1	A	158	TRP	CD2-CE2-CZ2	-6.84	115.56	122.40
1	A	942	SER	CA-C-O	-6.84	113.66	121.19
6	I	193	ILE	CA-C-N	6.84	129.90	120.39
6	I	193	ILE	C-N-CA	6.84	129.90	120.39
6	O	193	ILE	CA-CB-CG2	6.84	122.13	110.50
6	P	157	ALA	N-CA-C	6.84	120.51	111.75
2	B	590	ALA	CA-C-N	6.84	129.68	120.65
2	B	590	ALA	C-N-CA	6.84	129.68	120.65
3	C	65	ASP	CA-CB-CG	6.84	119.44	112.60
3	C	253	GLY	O-C-N	6.84	130.07	122.82
4	D	312	VAL	N-CA-CB	6.84	118.78	111.46
5	L	102	HIS	CB-CG-CD2	-6.84	122.31	131.20
5	R	221	LEU	CA-C-O	-6.84	113.65	120.70
5	T	110	PHE	CA-CB-CG	6.84	120.64	113.80
5	T	250	HIS	ND1-CE1-NE2	6.84	115.24	108.40
6	W	645	TRP	O-C-N	6.84	126.02	121.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	Y	118	THR	N-CA-C	6.84	125.37	110.80
5	Y	221	LEU	CA-C-O	-6.84	113.65	120.70
1	A	102	ARG	N-CA-C	6.84	118.82	111.36
6	V	610	THR	N-CA-C	6.84	120.93	112.59
6	J	157	ALA	N-CA-C	6.84	120.50	111.75
5	N	96	SER	CA-C-O	6.84	128.69	120.28
1	A	787	HIS	N-CA-C	6.84	125.36	110.80
2	B	685	PRO	N-CA-CB	6.84	109.97	102.72
5	G	221	LEU	CA-C-O	-6.84	113.66	120.70
6	P	107	VAL	O-C-N	6.84	131.12	122.57
6	P	513	HIS	CA-C-N	6.84	130.36	120.38
6	P	513	HIS	C-N-CA	6.84	130.36	120.38
6	V	618	THR	O-C-N	6.84	129.40	122.08
6	X	29	THR	CA-C-N	6.84	131.18	122.16
6	X	29	THR	C-N-CA	6.84	131.18	122.16
5	Y	78	ALA	O-C-N	6.84	129.37	122.12
3	C	712	VAL	N-CA-C	6.83	121.73	111.89
6	K	324	GLY	O-C-N	6.83	128.05	122.51
5	S	31	GLU	CA-C-O	-6.83	112.80	120.66
5	Y	113	PRO	O-C-N	6.83	130.75	123.03
5	F	208	VAL	N-CA-C	6.83	119.59	111.05
6	K	585	GLN	CB-CG-CD	6.83	124.21	112.60
5	N	213	THR	CA-CB-OG1	6.83	119.85	109.60
6	O	283	SER	N-CA-C	6.83	119.60	111.33
6	P	331	LEU	O-C-N	6.83	131.68	122.59
6	P	585	GLN	CB-CG-CD	6.83	124.22	112.60
1	A	135	LEU	CA-C-O	-6.83	112.38	120.10
1	A	485	ARG	CA-C-N	6.83	130.11	120.28
1	A	485	ARG	C-N-CA	6.83	130.11	120.28
5	H	169	ASN	CA-C-O	6.83	127.60	119.06
5	L	171	HIS	CA-C-O	-6.83	112.02	118.44
5	N	214	ARG	NH1-CZ-NH2	-6.83	110.42	119.30
6	U	601	THR	O-C-N	6.83	129.39	122.08
3	C	220	ILE	O-C-N	6.83	130.61	122.62
6	I	193	ILE	CA-CB-CG2	6.83	122.10	110.50
6	I	252	LEU	N-CA-C	6.83	118.37	111.07
6	J	493	GLN	CA-C-O	6.83	129.46	120.11
6	P	338	VAL	CA-CB-CG2	6.83	122.00	110.40
6	P	481	VAL	N-CA-C	6.83	119.36	108.85
6	Q	300	LYS	CA-C-O	6.83	126.04	119.62
6	Q	474	THR	CA-CB-OG1	6.83	119.84	109.60
6	V	283	SER	CA-C-N	6.83	129.30	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	V	283	SER	C-N-CA	6.83	129.30	120.56
1	A	607	LEU	N-CA-C	6.82	118.72	111.28
6	P	635	GLN	O-C-N	6.82	129.38	122.08
6	X	116	SER	O-C-N	6.82	132.01	123.14
1	A	229	HIS	ND1-CE1-NE2	6.82	115.22	108.40
1	A	289	TYR	N-CA-C	6.82	120.80	109.95
2	B	495	ASN	N-CA-C	6.82	119.30	111.11
2	B	1064	TRP	CD2-CE2-CZ2	-6.82	115.58	122.40
5	N	28	THR	CA-CB-CG2	6.82	122.10	110.50
5	S	148	CYS	N-CA-C	6.82	120.04	111.24
6	U	412	ARG	CA-CB-CG	6.82	127.75	114.10
1	A	115	PRO	N-CA-CB	6.82	110.83	103.33
2	B	1029	PRO	N-CA-CB	6.82	109.24	103.17
3	C	985	VAL	N-CA-C	6.82	117.94	107.78
4	D	124	ASN	CA-CB-CG	6.82	119.42	112.60
6	I	185	SER	N-CA-CB	6.82	120.10	109.94
6	O	512	ASN	OD1-CG-ND2	-6.82	115.78	122.60
6	U	193	ILE	CA-CB-CG2	6.82	122.09	110.50
6	V	87	PHE	N-CA-C	6.82	118.80	111.36
6	V	299	ILE	CB-CA-C	6.82	122.48	111.29
2	B	474	GLU	CA-C-O	6.82	127.98	120.82
1	A	1193	HIS	CB-CG-CD2	-6.82	122.34	131.20
6	V	164	ASP	N-CA-C	6.82	119.58	111.33
6	W	223	PRO	O-C-N	6.82	129.54	122.18
6	X	374	VAL	CA-C-O	-6.82	113.30	120.39
5	Y	48	ILE	N-CA-C	6.82	118.57	109.37
1	A	214	SER	N-CA-C	6.82	118.71	111.28
1	A	895	ALA	O-C-N	6.82	131.86	123.14
3	C	153	ILE	N-CA-CB	-6.82	105.47	112.28
6	K	283	SER	CA-C-N	6.82	129.28	120.56
6	K	283	SER	C-N-CA	6.82	129.28	120.56
5	S	97	ARG	NE-CZ-NH1	-6.82	114.69	121.50
6	U	290	ALA	N-CA-C	6.82	120.14	110.40
6	K	210	VAL	N-CA-CB	6.81	118.05	110.62
3	C	115	SER	N-CA-C	6.81	125.31	110.80
3	C	883	ARG	O-C-N	6.81	129.15	121.32
6	V	167	MET	CA-C-O	6.81	127.73	119.49
5	Y	250	HIS	ND1-CE1-NE2	6.81	115.21	108.40
1	A	1229	ILE	N-CA-C	6.81	117.81	109.30
6	I	638	PHE	O-C-N	6.81	129.34	122.12
6	U	297	ALA	CA-C-O	6.81	130.25	120.51
3	C	936	ALA	N-CA-C	6.81	120.62	109.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	1170	PRO	O-C-N	6.81	129.53	122.18
5	H	182	HIS	ND1-CE1-NE2	6.81	115.21	108.40
6	Q	637	PHE	N-CA-C	6.81	118.35	111.07
6	V	215	TYR	CA-C-N	6.81	126.77	119.28
6	V	215	TYR	C-N-CA	6.81	126.77	119.28
6	W	171	THR	N-CA-C	6.81	124.86	109.81
1	A	261	LEU	O-C-N	6.80	129.11	122.03
3	C	1004	PHE	CA-CB-CG	6.80	120.61	113.80
4	E	221	GLY	O-C-N	6.80	128.15	122.71
5	F	238	TYR	N-CA-C	6.80	119.61	108.52
6	I	132	THR	O-C-N	6.80	131.00	123.04
6	I	213	HIS	ND1-CE1-NE2	6.80	115.20	108.40
5	N	139	SER	CA-C-N	6.80	129.69	120.44
5	N	139	SER	C-N-CA	6.80	129.69	120.44
6	P	385	VAL	N-CA-C	6.80	116.42	106.55
6	V	346	ASP	CA-C-N	6.80	133.27	122.59
6	V	346	ASP	C-N-CA	6.80	133.27	122.59
6	I	648	LYS	CB-CG-CD	6.80	126.95	111.30
2	B	804	HIS	CE1-NE2-CD2	-6.80	102.20	109.00
5	M	157	HIS	CE1-NE2-CD2	-6.80	102.20	109.00
6	P	378	THR	CA-CB-OG1	6.80	119.80	109.60
5	R	37	HIS	CE1-NE2-CD2	-6.80	102.20	109.00
6	X	238	VAL	CA-CB-CG1	6.80	121.96	110.40
5	L	132	THR	CA-C-O	-6.80	112.60	120.49
5	N	113	PRO	O-C-N	6.80	130.72	123.10
5	G	15	ARG	NE-CZ-NH2	6.80	125.32	119.20
6	I	412	ARG	CA-CB-CG	6.80	127.70	114.10
5	M	169	ASN	CA-C-O	6.80	127.56	119.06
5	S	44	GLY	O-C-N	6.80	131.54	122.70
2	B	905	VAL	O-C-N	6.80	128.46	121.87
3	C	1196	ARG	NH1-CZ-NH2	-6.80	110.46	119.30
4	D	138	ILE	N-CA-C	6.80	119.55	111.05
5	G	132	THR	CA-CB-OG1	6.80	119.80	109.60
5	H	132	THR	CA-C-O	-6.80	112.61	120.49
6	I	303	ASP	CA-C-O	6.80	127.55	119.60
6	J	213	HIS	CE1-NE2-CD2	-6.80	102.20	109.00
6	J	648	LYS	CB-CG-CD	6.80	126.93	111.30
6	V	632	VAL	N-CA-C	6.80	117.30	110.23
1	A	775	ARG	O-C-N	6.79	129.90	122.15
6	J	591	LEU	N-CA-C	6.79	119.70	111.82
6	W	329	VAL	CA-C-O	6.79	128.28	119.85
1	A	53	ASP	N-CA-C	6.79	120.87	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	576	PHE	CA-CB-CG	6.79	120.59	113.80
5	T	148	CYS	N-CA-C	6.79	120.00	111.24
6	W	385	VAL	N-CA-C	6.79	116.40	106.55
1	A	1228	ARG	NE-CZ-NH2	6.79	125.31	119.20
2	B	561	PRO	N-CA-CB	6.79	110.55	103.15
6	J	43	PRO	CA-C-N	6.79	133.93	121.70
6	J	43	PRO	C-N-CA	6.79	133.93	121.70
6	J	206	GLU	CA-C-O	-6.79	113.69	120.82
6	J	619	ASP	N-CA-CB	6.79	120.68	110.22
6	K	239	ALA	N-CA-C	6.79	120.44	111.75
6	K	601	THR	CB-CA-C	6.79	121.72	110.92
5	M	118	THR	N-CA-C	6.79	125.27	110.80
6	O	638	PHE	O-C-N	6.79	129.32	122.12
5	S	138	SER	N-CA-C	6.79	125.27	110.80
6	V	512	ASN	OD1-CG-ND2	-6.79	115.81	122.60
6	W	60	SER	O-C-N	6.79	131.26	123.31
6	W	93	GLN	N-CA-C	6.79	122.08	113.25
5	T	169	ASN	CA-C-O	6.79	127.55	119.06
6	U	591	LEU	N-CA-C	6.79	119.70	111.82
4	D	392	ALA	N-CA-C	6.79	125.26	110.80
5	F	37	HIS	CE1-NE2-CD2	-6.79	102.21	109.00
5	L	118	THR	N-CA-C	6.79	125.26	110.80
6	U	513	HIS	CA-C-N	6.79	130.29	120.38
6	U	513	HIS	C-N-CA	6.79	130.29	120.38
6	W	331	LEU	O-C-N	6.79	131.62	122.59
2	B	280	ARG	CA-C-N	6.79	135.49	121.17
2	B	280	ARG	C-N-CA	6.79	135.49	121.17
2	B	668	LEU	N-CA-C	6.79	125.25	110.80
3	C	443	PRO	N-CA-C	6.79	126.45	112.47
4	E	298	ALA	CA-C-O	6.79	130.21	120.51
5	F	174	LYS	CB-CA-C	-6.79	102.64	110.17
5	G	276	ASP	CA-CB-CG	6.79	119.39	112.60
6	K	29	THR	CA-CB-OG1	6.79	119.78	109.60
6	K	185	SER	N-CA-CB	6.79	120.05	109.94
6	O	283	SER	N-CA-CB	6.79	120.24	110.06
6	O	300	LYS	CA-C-O	6.79	126.00	119.62
2	B	355	LYS	CB-CG-CD	6.78	126.90	111.30
5	H	174	LYS	CB-CA-C	-6.78	102.64	110.17
6	O	167	MET	CA-C-O	6.78	127.70	119.49
2	B	931	ILE	CA-C-N	-6.78	111.49	122.34
2	B	931	ILE	C-N-CA	-6.78	111.49	122.34
3	C	283	ILE	N-CA-C	6.78	123.45	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	I	155	ASP	N-CA-C	6.78	120.78	112.23
6	K	303	ASP	CA-C-O	6.78	127.53	119.60
6	V	213	HIS	ND1-CE1-NE2	6.78	115.18	108.40
6	J	197	ASP	N-CA-C	6.78	121.01	112.87
6	K	451	SER	CA-CB-OG	6.78	124.66	111.10
6	O	513	HIS	CA-C-N	6.78	130.28	120.38
6	O	513	HIS	C-N-CA	6.78	130.28	120.38
6	U	564	LEU	CA-C-N	6.78	130.62	120.31
6	U	564	LEU	C-N-CA	6.78	130.62	120.31
6	U	585	GLN	CB-CG-CD	6.78	124.13	112.60
6	W	55	VAL	O-C-N	6.78	131.05	122.57
6	W	273	LEU	N-CA-C	6.78	125.24	110.80
5	Y	208	VAL	N-CA-C	6.78	119.53	111.05
6	K	385	VAL	N-CA-C	6.78	116.38	106.55
5	L	231	HIS	CB-CG-CD2	-6.78	122.39	131.20
6	P	171	THR	N-CA-C	6.78	124.79	109.81
1	A	158	TRP	CB-CG-CD2	-6.78	117.31	126.80
3	C	458	HIS	CB-CG-CD2	-6.78	122.39	131.20
3	C	743	THR	CA-CB-CG2	6.78	122.02	110.50
5	L	15	ARG	NE-CZ-NH2	6.78	125.30	119.20
6	P	618	THR	O-C-N	6.78	129.33	122.08
6	V	466	VAL	O-C-N	6.78	129.91	122.66
6	V	648	LYS	CB-CG-CD	6.78	126.89	111.30
6	W	84	LYS	N-CA-C	6.78	118.67	111.28
5	Y	138	SER	N-CA-C	6.78	125.23	110.80
5	G	148	CYS	N-CA-C	6.77	119.98	111.24
5	R	96	SER	CA-C-O	6.77	128.61	120.28
2	B	360	LEU	O-C-N	6.77	129.30	122.12
2	B	974	LEU	N-CA-C	6.77	120.80	112.54
5	F	198	HIS	CB-CG-CD2	-6.77	122.39	131.20
5	N	221	LEU	CA-C-O	-6.77	113.72	120.70
6	O	550	SER	N-CA-CB	6.77	121.69	110.52
6	Q	303	ASP	CA-C-O	6.77	127.52	119.60
5	R	174	LYS	CB-CA-C	-6.77	102.65	110.17
6	X	203	TYR	CB-CG-CD1	-6.77	110.64	120.80
6	X	601	THR	CB-CA-C	6.77	121.69	110.92
5	H	198	HIS	CE1-NE2-CD2	-6.77	102.23	109.00
6	K	157	ALA	N-CA-C	6.77	120.42	111.75
6	P	474	THR	CA-CB-OG1	6.77	119.76	109.60
2	B	389	GLU	CB-CG-CD	6.77	124.11	112.60
4	E	336	ALA	N-CA-C	6.77	119.23	111.11
6	I	171	THR	N-CA-C	6.77	124.77	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	N	132	THR	CA-C-O	-6.77	112.64	120.49
5	N	147	HIS	CA-C-O	6.77	128.77	120.31
5	T	219	HIS	CE1-NE2-CD2	-6.77	102.23	109.00
6	V	539	ILE	N-CA-C	6.77	117.56	110.72
3	C	420	VAL	O-C-N	6.77	128.54	121.91
5	R	231	HIS	CB-CG-CD2	-6.77	122.40	131.20
6	U	536	THR	CA-CB-OG1	6.77	119.75	109.60
6	V	536	THR	CA-CB-OG1	6.77	119.75	109.60
6	W	161	LYS	CG-CD-CE	6.77	126.87	111.30
3	C	567	LEU	N-CA-C	6.77	119.23	111.11
6	O	338	VAL	CA-CB-CG2	6.77	121.90	110.40
6	W	546	GLN	N-CA-C	6.77	119.49	111.71
1	A	547	ILE	N-CA-C	6.76	123.49	108.88
2	B	851	PHE	CA-CB-CG	6.76	120.56	113.80
6	P	632	VAL	N-CA-C	6.76	117.27	110.23
6	W	536	THR	CA-CB-OG1	6.76	119.75	109.60
6	W	648	LYS	CB-CG-CD	6.76	126.86	111.30
4	D	300	ILE	O-C-N	6.76	131.02	122.57
5	F	209	ALA	N-CA-C	6.76	119.51	111.33
6	O	129	ASN	OD1-CG-ND2	-6.76	115.84	122.60
6	O	213	HIS	ND1-CE1-NE2	6.76	115.16	108.40
5	R	209	ALA	N-CA-C	6.76	119.23	111.11
5	S	169	ASN	CA-C-O	6.76	127.51	119.06
1	A	300	PHE	CA-CB-CG	-6.76	107.04	113.80
2	B	1023	ARG	NE-CZ-NH2	6.76	125.28	119.20
6	J	346	ASP	CA-C-N	6.76	133.21	122.59
6	J	346	ASP	C-N-CA	6.76	133.21	122.59
6	K	213	HIS	CE1-NE2-CD2	-6.76	102.24	109.00
6	Q	107	VAL	O-C-N	6.76	131.02	122.57
6	U	594	SER	N-CA-C	6.76	120.41	111.75
6	X	576	PHE	CA-CB-CG	6.76	120.56	113.80
3	C	461	ASN	N-CA-CB	6.76	120.63	110.22
3	C	903	HIS	CE1-NE2-CD2	-6.76	102.24	109.00
3	C	1186	ASN	CA-CB-CG	6.76	119.36	112.60
6	O	60	SER	O-C-N	6.76	131.22	123.31
6	O	238	VAL	CA-CB-CG1	6.76	121.89	110.40
5	F	147	HIS	CA-C-O	6.76	128.76	120.31
6	Q	648	LYS	CB-CG-CD	6.76	126.84	111.30
6	V	601	THR	CB-CA-C	6.76	121.67	110.92
1	A	1050	ILE	O-C-N	6.76	131.02	122.57
5	R	4	HIS	ND1-CG-CD2	6.76	112.86	106.10
5	T	138	SER	N-CA-C	6.76	125.19	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	V	474	THR	CA-CB-OG1	6.76	119.73	109.60
3	C	196	GLU	N-CA-C	6.75	120.28	110.28
3	C	425	ASN	OD1-CG-ND2	6.75	129.35	122.60
3	C	749	HIS	CE1-NE2-CD2	-6.75	102.25	109.00
6	O	330	GLN	N-CA-C	6.75	120.88	112.24
6	Q	239	ALA	N-CA-C	6.75	120.39	111.75
6	X	421	HIS	ND1-CE1-NE2	6.75	115.15	108.40
5	Y	15	ARG	NE-CZ-NH2	6.75	125.28	119.20
1	A	507	ASN	CA-CB-CG	6.75	119.35	112.60
1	A	659	PHE	O-C-N	6.75	131.09	123.19
1	A	1047	GLN	N-CA-C	6.75	125.18	110.80
2	B	399	ARG	N-CA-C	6.75	119.65	111.82
2	B	514	ILE	CA-CB-CG1	6.75	121.88	110.40
5	L	138	SER	N-CA-C	6.75	125.18	110.80
5	L	182	HIS	CB-CG-CD2	-6.75	122.42	131.20
5	M	64	THR	N-CA-C	6.75	118.29	111.07
6	Q	125	ASP	CA-CB-CG	6.75	119.35	112.60
6	W	601	THR	CB-CA-C	6.75	121.65	110.92
6	U	171	THR	N-CA-C	6.75	124.73	109.81
6	V	222	ASN	N-CA-C	6.75	124.73	109.81
6	V	550	SER	N-CA-CB	6.75	121.66	110.52
1	A	176	LYS	N-CA-C	6.75	121.38	112.13
1	A	1224	VAL	N-CA-C	6.75	120.48	111.17
2	B	958	HIS	CA-CB-CG	6.75	120.55	113.80
6	I	585	GLN	CB-CG-CD	6.75	124.07	112.60
6	J	132	THR	O-C-N	6.75	130.94	123.04
6	W	247	SER	O-C-N	6.75	129.89	122.20
2	B	667	ASN	CA-CB-CG	6.75	119.35	112.60
6	J	378	THR	CA-CB-OG1	6.75	119.72	109.60
6	K	171	THR	N-CA-C	6.75	124.72	109.81
6	O	634	LYS	N-CA-C	6.75	118.29	111.07
6	P	637	PHE	N-CA-C	6.75	118.29	111.07
6	U	632	VAL	N-CA-C	6.75	117.25	110.23
6	V	576	PHE	CA-CB-CG	6.75	120.55	113.80
6	W	289	LEU	N-CA-C	6.75	120.45	109.59
4	E	255	ARG	NE-CZ-NH2	6.75	125.27	119.20
1	A	778	PRO	CA-C-O	-6.74	114.19	121.27
4	E	121	ASP	CA-CB-CG	6.74	119.34	112.60
5	F	78	ALA	O-C-N	6.74	129.27	122.12
6	K	107	VAL	O-C-N	6.74	131.00	122.57
6	K	174	ILE	CA-CB-CG2	6.74	121.96	110.50
6	Q	132	THR	O-C-N	6.74	130.93	123.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	W	371	PRO	O-C-N	6.74	130.33	122.98
6	X	55	VAL	O-C-N	6.74	131.00	122.57
4	D	192	PHE	CA-CB-CG	6.74	120.54	113.80
5	F	276	ASP	CA-CB-CG	6.74	119.34	112.60
6	X	142	ILE	N-CA-CB	6.74	119.71	110.54
1	A	102	ARG	NE-CZ-NH1	-6.74	114.76	121.50
5	G	28	THR	CA-CB-CG2	6.74	121.96	110.50
5	H	64	THR	N-CA-C	6.74	118.28	111.07
6	I	203	TYR	CB-CG-CD1	-6.74	110.69	120.80
5	M	165	PHE	CA-CB-CG	6.74	120.54	113.80
6	V	638	PHE	O-C-N	6.74	129.27	122.12
6	W	238	VAL	CA-CB-CG1	6.74	121.86	110.40
6	X	588	ILE	CA-CB-CG2	6.74	121.96	110.50
5	L	216	ILE	CA-CB-CG1	6.74	121.86	110.40
5	N	78	ALA	O-C-N	6.74	129.26	122.12
1	A	1226	ILE	N-CA-C	6.74	119.51	111.09
5	F	132	THR	CA-C-O	-6.74	112.68	120.49
6	I	430	THR	N-CA-C	6.74	119.48	111.33
6	P	184	LYS	N-CA-C	6.74	119.19	111.11
6	W	561	ASP	O-C-N	6.74	131.55	122.59
6	X	196	LEU	N-CA-C	6.74	119.48	111.33
5	Y	191	LYS	O-C-N	6.73	130.10	122.22
1	A	133	ILE	N-CA-C	6.73	119.46	111.05
5	G	182	HIS	ND1-CE1-NE2	6.73	115.13	108.40
6	I	283	SER	N-CA-CB	6.73	120.16	110.06
6	Q	338	VAL	CA-CB-CG2	6.73	121.84	110.40
5	T	30	THR	CA-CB-OG1	6.73	119.70	109.60
6	V	43	PRO	CA-C-N	6.73	133.82	121.70
6	V	43	PRO	C-N-CA	6.73	133.82	121.70
5	H	138	SER	N-CA-C	6.73	125.13	110.80
6	J	142	ILE	N-CA-CB	6.73	119.69	110.54
6	Q	247	SER	O-C-N	6.73	129.87	122.20
5	R	236	ALA	N-CA-C	6.73	118.31	110.97
3	C	1101	GLU	CA-C-O	-6.73	113.75	120.82
5	L	148	CYS	N-CA-C	6.73	119.92	111.24
6	O	87	PHE	N-CA-C	6.73	118.69	111.36
6	U	283	SER	N-CA-CB	6.73	120.01	110.12
6	X	300	LYS	CA-C-O	6.73	125.95	119.62
6	J	474	THR	CA-CB-OG1	6.73	119.69	109.60
6	O	292	ARG	NE-CZ-NH1	-6.73	114.77	121.50
5	S	238	TYR	N-CA-C	6.73	119.48	108.52
6	X	289	LEU	N-CA-C	6.73	120.65	109.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	X	329	VAL	CA-C-O	6.73	128.19	119.85
1	A	1218	ARG	NE-CZ-NH1	-6.73	114.77	121.50
6	P	165	THR	CA-CB-CG2	6.73	121.93	110.50
6	P	210	VAL	N-CA-CB	6.73	117.95	110.62
6	U	648	LYS	CB-CG-CD	6.73	126.77	111.30
5	Y	153	ASP	OD1-CG-OD2	6.73	139.04	122.90
3	C	155	ASN	CA-C-O	-6.72	114.95	122.01
5	L	59	HIS	CG-CD2-NE2	6.72	113.92	107.20
5	M	147	HIS	ND1-CE1-NE2	6.72	115.12	108.40
1	A	979	ALA	N-CA-C	6.72	118.61	111.28
5	F	157	HIS	ND1-CE1-NE2	6.72	115.12	108.40
5	G	138	SER	N-CA-C	6.72	125.12	110.80
6	P	252	LEU	N-CA-C	6.72	118.26	111.07
5	R	15	ARG	NE-CZ-NH2	6.72	125.25	119.20
6	O	333	PRO	CA-C-N	6.72	132.42	121.87
6	O	333	PRO	C-N-CA	6.72	132.42	121.87
6	Q	382	ILE	N-CA-C	6.72	123.32	109.34
6	Q	458	THR	N-CA-C	6.72	125.11	110.80
6	X	316	ILE	O-C-N	6.72	132.03	122.62
5	Y	31	GLU	CA-C-O	-6.72	112.93	120.66
5	Y	132	THR	CA-CB-OG1	6.72	119.68	109.60
2	B	676	VAL	O-C-N	6.72	129.97	122.98
6	Q	330	GLN	N-CA-C	6.72	120.84	112.24
3	C	175	SER	N-CA-C	6.72	119.44	111.71
6	I	24	SER	N-CA-C	6.72	120.35	111.75
6	I	43	PRO	CA-C-N	6.72	133.79	121.70
6	I	43	PRO	C-N-CA	6.72	133.79	121.70
6	J	610	THR	N-CA-C	6.72	120.78	112.59
5	M	8	GLN	OE1-CD-NE2	6.72	129.32	122.60
6	P	458	THR	N-CA-C	6.72	125.11	110.80
6	V	546	GLN	N-CA-C	6.72	119.43	111.71
2	B	568	PHE	CA-CB-CG	6.71	120.51	113.80
3	C	551	PRO	O-C-N	6.71	130.30	122.98
3	C	799	ASP	N-CA-C	-6.71	100.34	110.28
6	I	184	LYS	N-CA-C	6.71	119.17	111.11
6	J	458	THR	N-CA-C	6.71	125.10	110.80
6	U	84	LYS	N-CA-C	6.71	118.60	111.28
6	U	474	THR	CA-CB-OG1	6.71	119.67	109.60
5	M	102	HIS	CB-CG-CD2	-6.71	122.47	131.20
2	B	887	ALA	N-CA-C	6.71	120.73	112.54
6	K	281	PRO	N-CA-C	6.71	121.82	110.95
6	W	510	VAL	O-C-N	6.71	128.88	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	E	280	GLU	CA-C-O	-6.71	113.44	120.55
5	T	25	TYR	N-CA-C	6.71	119.67	108.20
6	W	562	TYR	CD1-CE1-CZ	6.71	131.68	119.60
5	G	250	HIS	ND1-CE1-NE2	6.71	115.11	108.40
6	Q	513	HIS	CA-C-N	6.71	130.18	120.38
6	Q	513	HIS	C-N-CA	6.71	130.18	120.38
6	U	292	ARG	NE-CZ-NH1	-6.71	114.79	121.50
6	K	562	TYR	CB-CG-CD1	-6.71	110.74	120.80
6	P	292	ARG	NE-CZ-NH2	6.71	125.23	119.20
6	Q	281	PRO	N-CA-CB	6.71	109.14	103.17
6	X	34	ILE	N-CA-C	6.71	119.59	109.20
6	I	281	PRO	N-CA-C	6.71	121.81	110.95
6	I	632	VAL	N-CA-C	6.71	117.20	110.23
6	U	604	VAL	N-CA-C	6.71	118.26	110.62
6	V	197	ASP	N-CA-C	6.71	120.92	112.87
2	B	1181	THR	CB-CA-C	-6.70	97.31	109.38
6	X	222	ASN	N-CA-C	6.70	124.62	109.81
5	Y	271	HIS	ND1-CE1-NE2	6.70	115.10	108.40
5	H	44	GLY	O-C-N	6.70	131.41	122.70
6	V	171	THR	N-CA-C	6.70	124.62	109.81
3	C	1105	SER	N-CA-C	6.70	120.56	112.38
3	C	1177	TYR	CA-CB-CG	6.70	125.96	113.90
6	K	55	VAL	O-C-N	6.70	130.95	122.57
5	S	213	THR	CA-CB-OG1	6.70	119.65	109.60
6	U	116	SER	O-C-N	6.70	131.85	123.14
1	A	650	VAL	O-C-N	6.70	130.37	123.00
4	E	388	PRO	N-CA-C	6.70	121.76	111.11
5	F	153	ASP	OD1-CG-OD2	6.70	138.98	122.90
6	K	564	LEU	CA-C-N	6.70	130.49	120.31
6	K	564	LEU	C-N-CA	6.70	130.49	120.31
5	N	169	ASN	CA-C-O	6.70	127.43	119.06
1	A	1103	THR	CA-C-N	6.70	129.70	120.39
1	A	1103	THR	C-N-CA	6.70	129.70	120.39
6	K	165	THR	O-C-N	6.70	128.97	122.07
6	P	546	GLN	N-CA-C	6.70	119.41	111.71
2	B	713	ASN	CA-CB-CG	6.70	119.30	112.60
6	P	154	ARG	CG-CD-NE	6.70	126.73	112.00
6	U	206	GLU	CA-C-O	-6.70	113.79	120.82
2	B	373	ARG	NE-CZ-NH2	-6.69	113.17	119.20
2	B	816	ALA	O-C-N	-6.69	114.10	122.20
2	B	304	PHE	O-C-N	6.69	128.96	122.07
4	E	116	GLU	CB-CG-CD	6.69	123.98	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	Q	481	VAL	N-CA-C	6.69	119.16	108.85
5	S	30	THR	CA-CB-OG1	6.69	119.64	109.60
2	B	1207	ILE	N-CA-C	6.69	118.25	110.62
5	F	214	ARG	NH1-CZ-NH2	-6.69	110.60	119.30
5	G	132	THR	CA-C-O	-6.69	112.73	120.49
5	N	37	HIS	ND1-CE1-NE2	6.69	115.09	108.40
6	P	144	ASN	CA-C-N	6.69	129.48	120.65
6	P	144	ASN	C-N-CA	6.69	129.48	120.65
6	P	493	GLN	CA-C-O	6.69	129.28	120.11
6	Q	536	THR	CA-CB-OG1	6.69	119.64	109.60
6	W	199	LEU	N-CA-C	6.69	119.41	111.71
2	B	1026	GLY	O-C-N	6.69	130.69	122.46
6	K	290	ALA	N-CA-C	6.69	119.97	110.40
2	B	749	HIS	CE1-NE2-CD2	-6.69	102.31	109.00
3	C	523	ASN	OD1-CG-ND2	-6.69	115.91	122.60
5	T	31	GLU	CA-C-O	-6.69	112.97	120.66
6	W	24	SER	N-CA-C	6.69	120.31	111.75
6	X	171	THR	N-CA-C	6.69	124.59	109.81
2	B	494	THR	CA-CB-OG1	6.69	119.63	109.60
2	B	758	LEU	CA-C-N	6.69	129.54	120.38
2	B	758	LEU	C-N-CA	6.69	129.54	120.38
3	C	341	ALA	O-C-N	6.69	129.21	122.12
6	K	513	HIS	CA-C-N	6.69	130.14	120.38
6	K	513	HIS	C-N-CA	6.69	130.14	120.38
5	S	223	THR	N-CA-C	6.69	119.86	111.24
2	B	343	ALA	CA-C-N	6.68	129.83	122.74
2	B	343	ALA	C-N-CA	6.68	129.83	122.74
6	K	167	MET	CA-C-O	6.68	127.58	119.49
5	R	102	HIS	CB-CG-CD2	-6.68	122.51	131.20
6	U	193	ILE	CA-C-N	6.68	129.68	120.39
6	U	193	ILE	C-N-CA	6.68	129.68	120.39
6	U	255	SER	O-C-N	6.68	129.21	122.12
1	A	231	ASP	CA-CB-CG	6.68	119.28	112.60
1	A	730	ASN	N-CA-C	6.68	118.56	111.28
6	J	222	ASN	N-CA-C	6.68	124.58	109.81
6	P	601	THR	O-C-N	6.68	129.23	122.08
6	Q	386	THR	N-CA-C	6.68	122.10	113.88
5	T	182	HIS	ND1-CE1-NE2	6.68	115.08	108.40
6	I	586	VAL	N-CA-CB	-6.68	100.21	111.23
6	O	205	ASN	CA-CB-CG	-6.68	105.92	112.60
6	Q	550	SER	N-CA-CB	6.68	121.54	110.52
3	C	956	HIS	N-CA-C	6.68	118.22	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	G	37	HIS	CE1-NE2-CD2	-6.68	102.32	109.00
6	O	60	SER	CA-C-O	-6.68	112.91	120.32
6	P	174	ILE	CA-CB-CG2	6.68	121.86	110.50
5	T	153	ASP	OD1-CG-OD2	6.68	138.93	122.90
6	X	314	SER	CA-C-N	6.68	134.30	121.54
6	X	314	SER	C-N-CA	6.68	134.30	121.54
6	J	281	PRO	N-CA-CB	6.68	109.11	103.17
6	K	472	ARG	CG-CD-NE	6.68	126.69	112.00
1	A	40	HIS	CA-CB-CG	6.68	120.48	113.80
5	N	134	ASP	CA-CB-CG	6.68	119.28	112.60
6	P	281	PRO	N-CA-CB	6.68	109.11	103.17
6	Q	203	TYR	CB-CG-CD1	-6.68	110.79	120.80
6	X	385	VAL	N-CA-C	6.68	116.23	106.55
3	C	470	LEU	O-C-N	-6.67	114.54	120.48
4	E	43	HIS	CE1-NE2-CD2	-6.67	102.33	109.00
4	E	101	ALA	CA-C-O	-6.67	112.37	120.05
5	G	59	HIS	CG-CD2-NE2	6.67	113.87	107.20
6	O	412	ARG	CA-CB-CG	6.67	127.45	114.10
6	P	43	PRO	CA-C-N	6.67	133.71	121.70
6	P	43	PRO	C-N-CA	6.67	133.71	121.70
5	R	276	ASP	CA-CB-CG	6.67	119.27	112.60
5	S	276	ASP	CA-CB-CG	6.67	119.27	112.60
6	W	585	GLN	CB-CG-CD	6.67	123.95	112.60
6	O	635	GLN	O-C-N	6.67	129.22	122.08
6	X	210	VAL	N-CA-CB	6.67	117.89	110.62
1	A	312	LEU	N-CA-C	6.67	118.55	111.28
1	A	490	ASP	N-CA-C	6.67	118.63	111.36
3	C	853	ARG	CD-NE-CZ	6.67	133.74	124.40
6	I	564	LEU	CA-C-N	6.67	130.45	120.31
6	I	564	LEU	C-N-CA	6.67	130.45	120.31
6	J	374	VAL	CA-C-O	-6.67	113.45	120.39
5	Y	157	HIS	CE1-NE2-CD2	-6.67	102.33	109.00
4	D	301	ASP	CA-CB-CG	6.67	119.27	112.60
6	O	546	GLN	N-CA-C	6.67	119.38	111.71
6	V	129	ASN	OD1-CG-ND2	-6.67	115.93	122.60
3	C	896	ALA	N-CA-C	6.67	119.40	111.33
5	T	44	GLY	O-C-N	6.67	131.37	122.70
5	T	171	HIS	O-C-N	6.67	126.71	120.51
1	A	1152	ASP	N-CA-C	6.67	125.00	110.80
6	J	60	SER	O-C-N	6.67	131.11	123.31
6	J	333	PRO	CA-C-N	6.67	132.33	121.87
6	J	333	PRO	C-N-CA	6.67	132.33	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	K	43	PRO	CA-C-N	6.67	133.70	121.70
6	K	43	PRO	C-N-CA	6.67	133.70	121.70
6	Q	591	LEU	N-CA-C	6.67	119.55	111.82
2	B	303	GLN	N-CA-CB	-6.66	99.96	110.22
5	M	250	HIS	ND1-CE1-NE2	6.66	115.06	108.40
2	B	1168	ARG	NE-CZ-NH1	-6.66	114.84	121.50
4	D	58	TYR	CA-C-N	6.66	126.17	119.24
4	D	58	TYR	C-N-CA	6.66	126.17	119.24
6	J	31	ALA	O-C-N	6.66	127.94	120.68
6	J	290	ALA	N-CA-C	6.66	119.92	110.40
6	Q	238	VAL	CA-CB-CG1	6.66	121.72	110.40
6	X	495	SER	O-C-N	6.66	129.18	122.12
1	A	208	SER	CA-C-N	6.66	132.70	122.11
1	A	208	SER	C-N-CA	6.66	132.70	122.11
5	G	169	ASN	CA-C-O	6.66	127.38	119.06
6	I	536	THR	CA-CB-OG1	6.66	119.59	109.60
6	K	648	LYS	CB-CG-CD	6.66	126.62	111.30
5	N	97	ARG	NE-CZ-NH1	-6.66	114.84	121.50
6	P	594	SER	N-CA-C	6.66	120.27	111.75
6	W	107	VAL	O-C-N	6.66	130.89	122.57
6	I	618	THR	O-C-N	6.66	129.20	122.08
6	I	643	SER	N-CA-C	6.66	118.54	111.28
1	A	415	ASP	N-CA-C	6.66	118.22	110.97
4	E	174	LEU	N-CA-CB	-6.66	99.96	110.28
5	H	25	TYR	N-CA-C	6.66	119.58	108.20
6	K	155	ASP	N-CA-C	6.66	120.62	112.23
6	O	292	ARG	NE-CZ-NH2	6.66	125.19	119.20
6	P	641	ILE	CA-C-O	-6.66	114.03	120.95
5	R	132	THR	CA-CB-OG1	6.66	119.58	109.60
5	T	59	HIS	ND1-CE1-NE2	6.66	115.06	108.40
6	U	87	PHE	N-CA-C	6.66	118.61	111.36
5	G	191	LYS	O-C-N	6.65	130.01	122.22
5	S	219	HIS	CE1-NE2-CD2	-6.65	102.35	109.00
3	C	703	THR	OG1-CB-CG2	6.65	122.60	109.30
4	D	125	TYR	CA-C-O	-6.65	114.97	119.29
5	L	15	ARG	N-CA-C	6.65	119.54	111.82
6	P	187	LEU	N-CA-C	6.65	119.38	111.33
1	A	206	TYR	CD1-CG-CD2	6.65	128.07	118.10
6	P	290	ALA	N-CA-C	6.65	119.91	110.40
5	T	205	THR	N-CA-C	6.65	118.75	109.31
6	U	29	THR	CA-CB-OG1	6.65	119.58	109.60
6	V	601	THR	O-C-N	6.65	129.20	122.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	400	GLU	CA-C-N	6.65	130.03	120.79
2	B	400	GLU	C-N-CA	6.65	130.03	120.79
3	C	216	THR	CA-CB-CG2	6.65	121.80	110.50
5	N	223	THR	N-CA-C	6.65	119.82	111.24
5	Y	219	HIS	CE1-NE2-CD2	-6.65	102.35	109.00
1	A	88	ILE	CA-CB-CG1	6.65	121.70	110.40
3	C	307	SER	N-CA-C	6.65	124.96	110.80
4	D	63	SER	O-C-N	6.65	129.19	122.08
4	E	268	ARG	NH1-CZ-NH2	-6.65	110.66	119.30
5	G	209	ALA	N-CA-C	6.65	119.37	111.33
5	L	198	HIS	CB-CG-CD2	-6.65	122.56	131.20
6	O	66	ASP	O-C-N	6.65	130.00	122.22
6	P	155	ASP	N-CA-C	6.65	120.61	112.23
6	Q	297	ALA	CB-CA-C	6.65	123.65	110.42
4	E	367	GLU	O-C-N	6.65	129.16	122.12
5	M	37	HIS	CE1-NE2-CD2	-6.65	102.35	109.00
1	A	109	ALA	N-CA-C	6.64	120.26	111.75
5	G	102	HIS	CB-CG-CD2	-6.64	122.56	131.20
6	K	29	THR	CA-C-N	6.64	133.29	122.39
6	K	29	THR	C-N-CA	6.64	133.29	122.39
6	P	299	ILE	CB-CA-C	6.64	122.19	111.29
6	X	47	LEU	CA-C-O	6.64	128.05	120.54
3	C	653	PRO	N-CA-C	6.64	120.83	110.80
5	F	132	THR	CA-CB-OG1	6.64	119.56	109.60
5	G	113	PRO	O-C-N	6.64	130.54	123.10
6	J	196	LEU	N-CA-C	6.64	119.37	111.33
6	O	451	SER	CA-CB-OG	6.64	124.38	111.10
6	Q	298	PHE	CG-CD2-CE2	-6.64	109.41	120.70
3	C	263	LEU	N-CA-C	6.64	118.02	109.72
6	I	641	ILE	CA-C-O	-6.64	114.04	120.95
5	M	48	ILE	N-CA-C	6.64	118.34	109.37
6	W	298	PHE	CG-CD2-CE2	-6.64	109.41	120.70
4	E	393	ASP	N-CA-C	6.64	120.48	112.38
6	Q	562	TYR	CD1-CE1-CZ	6.64	131.55	119.60
6	X	43	PRO	CA-C-N	6.64	133.65	121.70
6	X	43	PRO	C-N-CA	6.64	133.65	121.70
3	C	898	ALA	CA-C-O	-6.64	113.25	121.02
3	C	1003	PRO	N-CA-CB	6.64	109.50	103.33
6	O	157	ALA	N-CA-C	6.64	120.24	111.75
6	O	164	ASP	N-CA-C	6.64	119.36	111.33
5	S	132	THR	CA-CB-OG1	6.64	119.56	109.60
6	V	84	LYS	N-CA-C	6.64	118.51	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	600	ILE	N-CA-CB	6.63	118.31	110.55
3	C	289	ASN	CA-C-O	-6.63	114.35	119.46
6	I	591	LEU	N-CA-C	6.63	119.52	111.82
6	Q	451	SER	CA-CB-OG	6.63	124.37	111.10
5	R	113	PRO	O-C-N	6.63	130.53	123.03
6	X	199	LEU	N-CA-C	6.63	119.34	111.71
6	I	563	PRO	N-CD-CG	6.63	113.15	103.20
5	N	157	HIS	CE1-NE2-CD2	-6.63	102.37	109.00
6	W	412	ARG	N-CA-CB	6.63	121.74	111.39
1	A	941	SER	N-CA-CB	-6.63	100.14	110.55
3	C	317	PHE	N-CA-CB	6.63	121.37	110.69
4	E	341	TRP	CA-C-N	6.63	129.71	120.29
4	E	341	TRP	C-N-CA	6.63	129.71	120.29
6	K	346	ASP	CA-C-N	6.63	133.00	122.59
6	K	346	ASP	C-N-CA	6.63	133.00	122.59
6	P	292	ARG	NE-CZ-NH1	-6.63	114.87	121.50
6	Q	29	THR	CA-C-N	6.63	133.27	122.39
6	Q	29	THR	C-N-CA	6.63	133.27	122.39
6	U	428	ARG	N-CA-C	6.63	120.96	112.34
6	V	619	ASP	N-CA-CB	6.63	120.43	110.22
6	W	29	THR	CA-CB-OG1	6.63	119.55	109.60
6	X	174	ILE	CA-CB-CG2	6.63	121.77	110.50
3	C	131	ALA	O-C-N	6.63	129.15	122.12
6	I	167	MET	CA-C-O	6.63	127.51	119.49
1	A	50	ASN	N-CA-C	6.63	122.66	113.45
3	C	1093	SER	N-CA-C	6.63	124.92	110.80
5	H	132	THR	CA-CB-OG1	6.63	119.54	109.60
6	K	34	ILE	N-CA-C	6.63	119.33	108.99
5	L	198	HIS	CE1-NE2-CD2	-6.63	102.37	109.00
6	P	222	ASN	N-CA-C	6.63	124.46	109.81
6	Q	222	ASN	N-CA-C	6.63	124.46	109.81
5	R	59	HIS	CG-CD2-NE2	6.63	113.83	107.20
2	B	976	ASN	CA-CB-CG	6.63	119.23	112.60
6	I	187	LEU	N-CA-C	6.63	119.35	111.33
6	O	586	VAL	N-CA-CB	-6.63	100.30	111.23
6	P	34	ILE	N-CA-C	6.63	119.33	108.99
6	Q	167	MET	CA-C-O	6.63	127.51	119.49
5	S	132	THR	CA-C-O	-6.63	112.80	120.49
6	W	34	ILE	N-CA-C	6.63	119.33	108.99
6	W	550	SER	N-CA-CB	6.63	121.45	110.52
6	X	645	TRP	O-C-N	6.63	125.87	121.23
3	C	1160	GLU	O-C-N	6.62	131.40	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	K	412	ARG	CB-CG-CD	6.62	126.53	111.30
5	L	113	PRO	O-C-N	6.62	130.52	123.10
5	L	153	ASP	OD1-CG-OD2	6.62	138.79	122.90
6	W	547	HIS	CB-CG-CD2	-6.62	122.59	131.20
6	W	618	THR	O-C-N	6.62	129.17	122.08
1	A	890	CYS	CA-C-O	-6.62	114.19	121.28
4	D	85	THR	CB-CA-C	6.62	121.63	109.71
6	P	161	LYS	CG-CD-CE	6.62	126.53	111.30
6	P	545	VAL	O-C-N	6.62	130.89	121.82
6	V	278	THR	CA-C-N	6.62	128.12	119.84
6	V	278	THR	C-N-CA	6.62	128.12	119.84
6	W	421	HIS	CE1-NE2-CD2	-6.62	102.38	109.00
3	C	225	PHE	N-CA-C	6.62	124.90	110.80
6	I	31	ALA	O-C-N	6.62	127.90	120.68
6	P	512	ASN	OD1-CG-ND2	-6.62	115.98	122.60
6	Q	292	ARG	NE-CZ-NH2	6.62	125.16	119.20
3	C	303	GLN	N-CA-C	6.62	118.58	111.36
5	H	221	LEU	CA-C-O	-6.62	113.88	120.70
6	I	512	ASN	OD1-CG-ND2	-6.62	115.98	122.60
6	J	152	ARG	O-C-N	6.62	128.89	122.07
1	A	19	ARG	NE-CZ-NH1	-6.62	114.89	121.50
2	B	1108	ASN	CA-C-O	-6.62	112.22	120.23
3	C	431	THR	CA-CB-OG1	6.62	119.52	109.60
3	C	1042	ALA	O-C-N	6.62	130.80	123.52
5	G	137	ASP	N-CA-CB	6.62	119.39	110.59
6	I	601	THR	O-C-N	6.62	129.16	122.08
6	P	248	GLU	CA-CB-CG	6.62	127.33	114.10
6	V	290	ALA	N-CA-C	6.62	119.86	110.40
1	A	158	TRP	CE2-CD2-CG	-6.61	99.26	107.20
1	A	597	ARG	CB-CA-C	6.61	121.77	110.79
4	E	295	GLY	O-C-N	6.61	131.30	122.70
6	Q	157	ALA	N-CA-C	6.61	120.22	111.75
6	Q	493	GLN	CA-C-O	6.61	129.17	120.11
5	Y	147	HIS	CA-C-O	6.61	128.58	120.31
1	A	631	VAL	CA-C-O	6.61	128.36	121.29
4	E	195	GLN	N-CA-C	6.61	118.49	111.28
5	G	214	ARG	NH1-CZ-NH2	-6.61	110.70	119.30
6	K	428	ARG	N-CA-C	6.61	120.94	112.34
1	A	400	LEU	N-CA-C	6.61	119.79	108.02
1	A	775	ARG	CB-CA-C	-6.61	99.61	110.85
3	C	539	GLY	O-C-N	6.61	131.29	122.70
4	D	30	ALA	O-C-N	6.61	131.38	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	I	493	GLN	CA-C-O	6.61	129.17	120.11
5	S	231	HIS	CB-CG-CD2	-6.61	122.61	131.20
6	X	107	VAL	O-C-N	6.61	130.83	122.57
2	B	607	HIS	CE1-NE2-CD2	-6.61	102.39	109.00
5	H	118	THR	N-CA-C	6.61	124.88	110.80
5	R	242	PHE	O-C-N	6.61	131.04	123.31
5	T	198	HIS	CE1-NE2-CD2	-6.61	102.39	109.00
1	A	530	GLU	CA-CB-CG	6.61	127.32	114.10
1	A	1211	THR	OG1-CB-CG2	6.61	122.52	109.30
2	B	237	GLU	N-CA-C	6.61	119.62	107.73
2	B	538	ASN	CA-C-O	6.61	127.57	120.10
2	B	559	HIS	CB-CG-CD2	-6.61	122.61	131.20
3	C	448	SER	O-C-N	6.61	129.73	122.20
5	G	97	ARG	NE-CZ-NH1	-6.61	114.89	121.50
5	H	219	HIS	CE1-NE2-CD2	-6.61	102.39	109.00
6	J	641	ILE	CA-C-O	-6.61	114.08	120.95
6	Q	299	ILE	CB-CA-C	6.61	122.13	111.29
6	V	496	GLU	N-CA-C	6.61	119.33	111.33
1	A	1094	GLN	OE1-CD-NE2	-6.61	115.99	122.60
2	B	696	ALA	N-CA-C	6.61	119.04	111.11
3	C	587	MET	N-CA-C	6.61	119.31	111.71
4	E	85	THR	CA-CB-CG2	6.61	121.73	110.50
4	E	379	ILE	N-CA-C	6.61	123.08	109.34
5	H	37	HIS	CE1-NE2-CD2	-6.61	102.39	109.00
6	I	292	ARG	NE-CZ-NH1	-6.61	114.89	121.50
6	Q	171	THR	N-CA-C	6.61	124.41	109.81
5	R	250	HIS	ND1-CE1-NE2	6.61	115.00	108.40
6	U	645	TRP	O-C-N	6.61	125.85	121.23
1	A	424	SER	N-CA-C	6.60	118.03	109.64
2	B	476	LEU	N-CA-C	6.60	119.48	111.82
5	F	147	HIS	ND1-CE1-NE2	6.60	115.00	108.40
6	J	154	ARG	N-CA-CB	-6.60	98.84	110.39
6	K	222	ASN	N-CA-C	6.60	124.40	109.81
5	R	182	HIS	ND1-CE1-NE2	6.60	115.00	108.40
5	R	271	HIS	CE1-NE2-CD2	-6.60	102.40	109.00
5	T	231	HIS	CB-CG-CD2	-6.60	122.62	131.20
1	A	229	HIS	CE1-NE2-CD2	-6.60	102.40	109.00
6	P	273	LEU	N-CA-C	6.60	124.86	110.80
6	Q	632	VAL	N-CA-C	6.60	117.09	110.23
2	B	560	LEU	N-CA-C	6.60	124.39	109.81
2	B	995	PRO	CA-C-N	6.60	130.34	120.31
2	B	995	PRO	C-N-CA	6.60	130.34	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	1133	VAL	CA-CB-CG2	6.60	121.62	110.40
6	I	547	HIS	CB-CG-CD2	-6.60	122.62	131.20
6	K	116	SER	O-C-N	6.60	131.72	123.14
5	N	165	PHE	CA-CB-CG	6.60	120.40	113.80
1	A	39	LEU	N-CA-C	6.60	124.85	110.80
1	A	177	TYR	CB-CA-C	-6.60	100.60	111.68
1	A	180	LEU	N-CA-C	6.60	120.21	109.59
5	G	110	PHE	CA-CB-CG	6.60	120.40	113.80
6	Q	333	PRO	CA-C-N	6.60	132.23	121.87
6	Q	333	PRO	C-N-CA	6.60	132.23	121.87
6	Q	635	GLN	O-C-N	6.60	129.14	122.08
1	A	348	GLN	N-CA-CB	6.60	120.25	110.49
4	E	332	PRO	O-C-N	6.60	131.54	122.64
5	F	96	SER	CA-C-O	6.59	128.39	120.28
6	J	645	TRP	O-C-N	6.59	125.85	121.23
6	K	562	TYR	CD1-CE1-CZ	6.59	131.47	119.60
6	X	643	SER	N-CA-C	6.59	118.13	111.07
1	A	997	TRP	N-CA-C	6.59	119.47	111.82
4	D	62	ALA	N-CA-C	6.59	119.29	111.71
6	J	585	GLN	CB-CG-CD	6.59	123.81	112.60
6	K	161	LYS	CG-CD-CE	6.59	126.46	111.30
6	U	203	TYR	CB-CG-CD1	-6.59	110.91	120.80
4	D	77	ASN	N-CA-C	6.59	124.37	109.81
5	M	25	TYR	N-CA-C	6.59	119.47	108.20
2	B	525	TYR	N-CA-C	6.59	120.90	112.34
2	B	576	THR	CA-C-O	-6.59	113.78	121.16
5	M	214	ARG	NH1-CZ-NH2	-6.59	110.74	119.30
6	P	447	SER	N-CA-C	6.59	121.36	109.44
1	A	662	ARG	NE-CZ-NH1	-6.59	114.91	121.50
3	C	482	SER	CA-C-N	6.59	130.88	120.47
3	C	482	SER	C-N-CA	6.59	130.88	120.47
6	K	164	ASP	N-CA-C	6.59	119.30	111.33
5	L	87	ASP	CA-CB-CG	6.59	119.19	112.60
6	V	314	SER	CA-C-N	6.59	134.12	121.54
6	V	314	SER	C-N-CA	6.59	134.12	121.54
6	X	187	LEU	N-CA-C	6.59	119.30	111.33
2	B	424	ALA	N-CA-C	6.58	120.57	112.54
6	U	273	LEU	N-CA-C	6.58	124.83	110.80
6	V	42	ASN	N-CA-C	6.58	124.36	109.81
1	A	756	SER	N-CA-C	6.58	119.27	109.59
2	B	633	PRO	CA-C-N	6.58	129.64	120.29
2	B	633	PRO	C-N-CA	6.58	129.64	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	535	TRP	CD2-CE2-CZ2	-6.58	115.82	122.40
6	V	203	TYR	CB-CG-CD1	-6.58	110.92	120.80
6	X	303	ASP	CA-CB-CG	6.58	119.18	112.60
3	C	681	ASN	CA-CB-CG	6.58	119.18	112.60
3	C	1039	ARG	N-CA-C	6.58	119.88	108.76
6	I	42	ASN	CA-CB-CG	6.58	119.18	112.60
6	I	66	ASP	O-C-N	6.58	129.92	122.22
6	X	519	ASN	O-C-N	6.58	128.94	122.09
6	X	632	VAL	N-CA-C	6.58	117.08	110.23
5	Y	97	ARG	NE-CZ-NH1	-6.58	114.92	121.50
5	Y	209	ALA	N-CA-C	6.58	119.29	111.33
2	B	1110	ALA	N-CA-C	6.58	121.37	112.88
5	M	209	ALA	N-CA-C	6.58	119.29	111.33
6	P	165	THR	O-C-N	6.58	128.85	122.07
5	Y	276	ASP	CA-CB-CG	6.58	119.18	112.60
1	A	255	ILE	N-CA-C	6.58	119.40	109.20
2	B	344	TYR	CA-C-N	6.58	128.06	119.84
2	B	344	TYR	C-N-CA	6.58	128.06	119.84
3	C	804	HIS	ND1-CE1-NE2	6.58	114.98	108.40
3	C	865	VAL	N-CA-C	6.58	117.36	110.72
5	F	110	PHE	CA-CB-CG	6.58	120.38	113.80
6	Q	155	ASP	N-CA-C	6.58	120.52	112.23
6	V	385	VAL	N-CA-C	6.58	116.09	106.55
6	W	167	MET	CA-C-O	6.58	127.45	119.49
6	P	466	VAL	O-C-N	6.58	129.70	122.66
1	A	1044	LEU	N-CA-C	6.58	124.81	110.80
2	B	637	PRO	N-CA-CB	6.58	110.27	103.23
6	I	550	SER	N-CA-CB	6.58	121.37	110.52
6	O	428	ARG	N-CA-C	6.58	120.89	112.34
6	Q	510	VAL	CA-C-O	-6.58	113.75	121.05
2	B	279	SER	CA-C-N	6.57	129.93	120.79
2	B	279	SER	C-N-CA	6.57	129.93	120.79
6	I	386	THR	N-CA-C	6.57	121.97	113.88
5	L	135	LEU	N-CA-C	6.57	119.65	108.67
5	L	274	PRO	N-CA-CB	6.57	110.15	103.25
6	P	550	SER	N-CA-CB	6.57	121.36	110.52
6	U	303	ASP	CA-C-O	6.57	127.29	119.60
6	X	563	PRO	N-CD-CG	6.57	113.06	103.20
4	E	75	HIS	N-CA-C	6.57	121.04	112.89
6	P	142	ILE	N-CA-CB	6.57	119.48	110.54
6	W	43	PRO	CA-C-N	6.57	133.53	121.70
6	W	43	PRO	C-N-CA	6.57	133.53	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	V	116	SER	O-C-N	6.57	131.68	123.14
6	W	283	SER	CA-C-N	6.57	128.97	120.56
6	W	283	SER	C-N-CA	6.57	128.97	120.56
1	A	567	SER	N-CA-C	6.57	118.99	111.11
6	J	107	VAL	O-C-N	6.57	130.78	122.57
6	Q	273	LEU	N-CA-C	6.57	124.79	110.80
5	R	169	ASN	CA-C-O	6.57	127.27	119.06
2	B	638	LEU	N-CA-C	6.57	118.44	111.28
6	I	222	ASN	N-CA-C	6.57	124.32	109.81
6	I	411	VAL	CG1-CB-CG2	-6.57	96.35	110.80
6	J	210	VAL	N-CA-CB	6.57	117.78	110.62
6	V	147	ARG	CA-CB-CG	6.57	127.23	114.10
1	A	1154	ARG	NE-CZ-NH2	6.57	125.11	119.20
2	B	802	ALA	N-CA-CB	-6.57	100.75	110.53
3	C	805	ALA	N-CA-C	6.57	120.39	112.38
6	O	242	PHE	CB-CG-CD2	-6.57	109.54	120.70
6	W	290	ALA	N-CA-C	6.57	119.79	110.40
1	A	335	SER	CA-C-O	6.56	127.71	120.82
5	F	138	SER	N-CA-C	6.56	124.78	110.80
6	I	42	ASN	N-CA-C	6.56	124.32	109.81
6	J	421	HIS	CE1-NE2-CD2	-6.56	102.44	109.00
5	H	157	HIS	CE1-NE2-CD2	-6.56	102.44	109.00
6	U	298	PHE	CE1-CZ-CE2	6.56	131.81	120.00
6	U	421	HIS	CE1-NE2-CD2	-6.56	102.44	109.00
6	U	317	ARG	NE-CZ-NH2	6.56	125.11	119.20
2	B	1041	ILE	N-CA-C	6.56	122.99	109.34
5	G	271	HIS	CE1-NE2-CD2	-6.56	102.44	109.00
6	I	317	ARG	NE-CZ-NH2	6.56	125.10	119.20
6	K	248	GLU	CA-CB-CG	6.56	127.22	114.10
6	Q	618	THR	O-C-N	6.56	129.10	122.08
2	B	465	ASN	N-CA-C	6.56	119.93	109.24
2	B	880	LEU	CB-CA-C	6.56	120.10	110.26
3	C	421	ASN	N-CA-C	6.56	118.98	111.11
6	I	338	VAL	CA-CB-CG2	6.56	121.55	110.40
6	J	203	TYR	CB-CG-CD1	-6.56	110.97	120.80
5	N	15	ARG	N-CA-C	6.56	119.43	111.82
1	A	469	ARG	CD-NE-CZ	6.56	133.58	124.40
6	O	563	PRO	N-CD-CG	6.56	113.03	103.20
6	Q	213	HIS	CE1-NE2-CD2	-6.56	102.44	109.00
3	C	293	LEU	O-C-N	6.55	129.09	122.08
3	C	791	ALA	O-C-N	6.55	129.17	122.09
6	V	641	ILE	CA-C-O	-6.55	114.13	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	W	222	ASN	N-CA-C	6.55	124.30	109.81
2	B	894	THR	O-C-N	6.55	130.71	122.65
6	K	329	VAL	CA-C-O	6.55	127.97	119.85
1	A	49	PHE	O-C-N	6.55	129.59	122.64
1	A	151	ILE	CA-C-N	6.55	133.35	122.54
1	A	151	ILE	C-N-CA	6.55	133.35	122.54
1	A	419	GLU	O-C-N	6.55	129.06	122.12
6	I	576	PHE	CA-CB-CG	6.55	120.35	113.80
6	K	638	PHE	O-C-N	6.55	129.06	122.12
6	P	303	ASP	CA-C-O	6.55	127.27	119.60
6	W	281	PRO	N-CA-CB	6.55	109.00	103.17
6	W	411	VAL	CA-C-O	-6.55	114.14	120.95
5	Y	25	TYR	N-CA-C	6.55	119.40	108.20
4	E	139	ASN	N-CA-C	6.55	119.26	111.33
5	L	37	HIS	CE1-NE2-CD2	-6.55	102.45	109.00
6	O	298	PHE	CG-CD2-CE2	-6.55	109.57	120.70
6	U	576	PHE	CA-CB-CG	6.55	120.35	113.80
1	A	1257	PHE	CA-CB-CG	6.55	120.35	113.80
4	E	318	ASN	CB-CA-C	6.55	123.45	110.42
5	F	219	HIS	CE1-NE2-CD2	-6.55	102.45	109.00
5	G	96	SER	CA-C-O	6.55	128.33	120.28
6	P	203	TYR	CB-CG-CD1	-6.55	110.98	120.80
6	P	520	VAL	O-C-N	6.55	128.32	121.91
6	Q	594	SER	N-CA-C	6.55	120.13	111.75
5	S	201	HIS	CE1-NE2-CD2	-6.55	102.45	109.00
1	A	958	PHE	N-CA-C	6.54	119.71	109.96
4	D	134	SER	N-CA-C	6.54	120.52	112.54
6	K	550	SER	N-CA-CB	6.54	121.32	110.52
6	V	273	LEU	N-CA-C	6.54	124.74	110.80
5	Y	110	PHE	CA-CB-CG	6.54	120.34	113.80
2	B	403	ILE	CA-CB-CG2	6.54	121.62	110.50
5	G	147	HIS	ND1-CE1-NE2	6.54	114.94	108.40
5	G	182	HIS	CB-CG-CD2	-6.54	122.69	131.20
6	I	390	ASN	N-CA-C	6.54	119.25	111.33
5	L	48	ILE	N-CA-C	6.54	118.20	109.37
5	N	219	HIS	CE1-NE2-CD2	-6.54	102.46	109.00
5	N	250	HIS	ND1-CE1-NE2	6.54	114.94	108.40
6	P	47	LEU	CA-C-O	6.54	127.94	120.54
1	A	978	ALA	N-CA-C	6.54	118.96	111.11
1	A	1219	ILE	N-CA-C	6.54	122.94	109.34
6	K	412	ARG	N-CA-CB	6.54	121.59	111.39
5	L	171	HIS	O-C-N	6.54	126.59	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	O	289	LEU	N-CA-C	6.54	120.35	109.95
6	P	42	ASN	N-CA-C	6.54	124.27	109.81
5	T	15	ARG	N-CA-C	6.54	119.41	111.82
5	T	102	HIS	CB-CG-CD2	-6.54	122.69	131.20
6	J	643	SER	N-CA-C	6.54	118.41	111.28
5	F	64	THR	N-CA-C	6.54	118.07	111.07
6	K	213	HIS	ND1-CE1-NE2	6.54	114.94	108.40
5	L	76	ASN	CA-CB-CG	6.54	119.14	112.60
5	L	201	HIS	CE1-NE2-CD2	-6.54	102.46	109.00
6	O	281	PRO	N-CA-CB	6.54	108.99	103.17
5	R	237	CYS	N-CA-C	6.54	124.73	110.80
5	R	273	GLU	N-CA-C	6.54	118.31	110.07
5	S	64	THR	N-CA-C	6.54	118.07	111.07
6	V	382	ILE	N-CA-C	6.54	122.94	109.34
1	A	1182	SER	N-CA-C	6.54	119.89	108.52
6	K	152	ARG	O-C-N	6.54	128.80	122.07
3	C	754	GLU	O-C-N	6.54	129.62	122.11
6	K	493	GLN	CA-C-O	6.54	129.06	120.11
5	T	139	SER	CA-C-N	6.54	129.57	120.29
5	T	139	SER	C-N-CA	6.54	129.57	120.29
6	I	34	ILE	N-CA-C	6.53	119.18	108.99
6	I	303	ASP	CA-CB-CG	6.53	119.13	112.60
6	O	643	SER	N-CA-C	6.53	118.40	111.28
6	P	31	ALA	O-C-N	6.53	127.80	120.68
6	Q	283	SER	CA-C-N	6.53	128.92	120.56
6	Q	283	SER	C-N-CA	6.53	128.92	120.56
5	S	165	PHE	CA-CB-CG	6.53	120.33	113.80
5	S	191	LYS	O-C-N	6.53	129.86	122.22
6	W	638	PHE	O-C-N	6.53	129.05	122.12
6	X	273	LEU	N-CA-C	6.53	124.72	110.80
2	B	667	ASN	O-C-N	6.53	131.28	122.59
6	Q	28	SER	O-C-N	-6.53	113.90	122.59
6	Q	93	GLN	N-CA-C	6.53	121.74	113.25
6	U	200	CYS	N-CA-C	6.53	118.40	111.28
3	C	111	ILE	O-C-N	6.53	129.65	122.66
3	C	532	ILE	CA-C-O	-6.53	114.25	121.17
3	C	1166	PRO	N-CA-C	6.53	123.28	113.81
4	E	5	GLN	N-CA-C	6.53	118.38	109.11
4	E	208	ILE	O-C-N	6.53	128.21	121.87
5	F	50	ALA	N-CA-C	6.53	119.22	111.71
6	K	132	THR	O-C-N	6.53	130.68	123.04
5	L	213	THR	CA-CB-OG1	6.53	119.39	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	M	213	THR	CA-CB-OG1	6.53	119.39	109.60
4	D	337	ARG	CA-CB-CG	6.53	127.16	114.10
6	I	428	ARG	N-CA-C	6.53	120.83	112.34
6	J	187	LEU	N-CA-C	6.53	119.23	111.33
5	M	205	THR	N-CA-C	6.53	118.58	109.31
6	O	316	ILE	O-C-N	6.53	131.76	122.62
6	W	193	ILE	CA-CB-CG2	6.53	121.60	110.50
1	A	295	PHE	N-CA-C	6.53	124.70	110.80
2	B	983	TYR	CA-CB-CG	6.53	125.65	113.90
2	B	1199	PHE	O-C-N	6.53	131.74	123.12
3	C	415	GLN	O-C-N	6.53	128.88	122.09
4	D	399	GLN	CA-CB-CG	6.53	127.16	114.10
6	I	121	ALA	CB-CA-C	-6.53	100.37	110.81
6	I	467	THR	CA-CB-OG1	6.53	119.39	109.60
6	J	147	ARG	CA-CB-CG	6.53	127.16	114.10
6	O	223	PRO	O-C-N	6.53	129.23	122.18
6	V	594	SER	N-CA-C	6.53	120.10	111.75
6	X	79	ARG	O-C-N	6.53	128.88	122.09
6	J	161	LYS	CG-CD-CE	6.53	126.31	111.30
6	P	619	ASP	N-CA-CB	6.53	120.27	110.22
6	U	474	THR	CA-C-N	6.53	130.09	120.95
6	U	474	THR	C-N-CA	6.53	130.09	120.95
6	U	512	ASN	OD1-CG-ND2	-6.53	116.08	122.60
6	V	639	ASP	N-CA-C	6.53	118.94	111.11
2	B	1108	ASN	CA-CB-CG	6.52	119.12	112.60
4	D	368	ARG	NE-CZ-NH2	-6.52	113.33	119.20
6	I	382	ILE	N-CA-C	6.52	122.91	109.34
6	P	124	GLY	O-C-N	6.52	131.18	122.70
6	X	561	ASP	O-C-N	6.52	131.27	122.59
1	A	796	THR	N-CA-C	6.52	120.50	112.54
2	B	859	ILE	CA-CB-CG1	6.52	121.49	110.40
6	J	42	ASN	N-CA-C	6.52	124.22	109.81
6	J	594	SER	N-CA-C	6.52	120.10	111.75
5	N	132	THR	CA-CB-OG1	6.52	119.39	109.60
5	S	25	TYR	N-CA-C	6.52	119.35	108.20
5	S	198	HIS	CB-CG-CD2	-6.52	122.72	131.20
6	U	586	VAL	N-CA-CB	-6.52	100.47	111.23
1	A	415	ASP	CA-C-O	6.52	127.85	121.00
1	A	890	CYS	O-C-N	6.52	129.81	123.29
4	E	276	HIS	ND1-CE1-NE2	6.52	114.92	108.40
6	K	142	ILE	N-CA-CB	6.52	119.41	110.54
6	O	125	ASP	CA-CB-CG	6.52	119.12	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	T	222	LEU	O-C-N	6.52	131.67	122.41
6	W	346	ASP	CA-C-N	6.52	132.83	122.59
6	W	346	ASP	C-N-CA	6.52	132.83	122.59
6	X	331	LEU	O-C-N	6.52	131.26	122.59
5	Y	59	HIS	ND1-CE1-NE2	6.52	114.92	108.40
2	B	417	VAL	N-CA-C	6.52	116.68	110.42
3	C	498	THR	CA-CB-OG1	6.52	119.38	109.60
3	C	1032	ILE	CA-C-O	6.52	129.53	121.64
4	E	408	GLN	N-CA-C	6.52	118.93	111.11
6	U	314	SER	CA-C-N	6.52	133.99	121.54
6	U	314	SER	C-N-CA	6.52	133.99	121.54
5	Y	137	ASP	N-CA-CB	6.52	119.26	110.59
6	I	93	GLN	N-CA-C	6.52	121.72	113.25
6	J	385	VAL	N-CA-C	6.52	116.00	106.55
6	K	466	VAL	O-C-N	6.52	129.63	122.66
6	O	290	ALA	N-CA-C	6.52	119.72	110.40
6	Q	314	SER	CA-C-N	6.52	133.99	121.54
6	Q	314	SER	C-N-CA	6.52	133.99	121.54
6	U	174	ILE	CA-CB-CG2	6.52	121.58	110.50
6	U	635	GLN	O-C-N	6.52	129.05	122.08
6	V	205	ASN	CA-CB-CG	-6.52	106.08	112.60
6	V	223	PRO	O-C-N	6.52	129.22	122.18
6	V	563	PRO	N-CD-CG	6.52	112.98	103.20
6	V	634	LYS	N-CA-C	6.52	118.05	111.07
6	P	164	ASP	N-CA-C	6.52	119.22	111.33
6	P	300	LYS	CA-C-O	6.52	125.75	119.62
1	A	1052	ILE	CA-CB-CG1	6.51	121.47	110.40
1	A	1284	TYR	CA-CB-CG	6.51	125.63	113.90
2	B	566	CYS	O-C-N	6.51	129.58	122.15
2	B	730	THR	N-CA-C	6.51	118.38	111.28
4	E	305	LEU	CA-C-N	6.51	126.47	119.76
4	E	305	LEU	C-N-CA	6.51	126.47	119.76
6	K	84	LYS	N-CA-C	6.51	118.38	111.28
5	R	31	GLU	CA-C-O	-6.51	113.17	120.66
5	R	213	THR	CA-CB-OG1	6.51	119.37	109.60
6	V	142	ILE	N-CA-CB	6.51	119.40	110.54
6	X	129	ASN	OD1-CG-ND2	-6.51	116.09	122.60
1	A	770	ARG	NE-CZ-NH2	6.51	125.06	119.20
6	O	187	LEU	N-CA-C	6.51	119.21	111.33
6	O	196	LEU	N-CA-C	6.51	119.21	111.33
6	P	242	PHE	CB-CG-CD2	-6.51	109.63	120.70
2	B	427	LEU	N-CA-C	6.51	119.20	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	84	LYS	N-CA-C	6.51	118.38	111.28
1	A	519	LEU	CA-C-O	-6.51	113.75	121.11
5	G	25	TYR	N-CA-C	6.51	119.33	108.20
5	G	271	HIS	ND1-CE1-NE2	6.51	114.91	108.40
6	O	213	HIS	CE1-NE2-CD2	-6.51	102.49	109.00
6	Q	100	LYS	CG-CD-CE	6.51	126.27	111.30
6	Q	337	ARG	CD-NE-CZ	6.51	133.51	124.40
5	S	59	HIS	CA-CB-CG	6.51	120.31	113.80
5	T	132	THR	CA-CB-OG1	6.51	119.37	109.60
6	V	248	GLU	CA-CB-CG	6.51	127.12	114.10
6	X	147	ARG	CA-CB-CG	6.51	127.12	114.10
6	I	510	VAL	O-C-N	6.51	128.67	121.90
5	R	153	ASP	OD1-CG-OD2	6.51	138.52	122.90
6	V	55	VAL	O-C-N	6.51	130.71	122.57
6	X	585	GLN	CB-CG-CD	6.51	123.66	112.60
6	K	382	ILE	N-CA-C	6.51	122.87	109.34
5	L	110	PHE	CA-CB-CG	6.51	120.31	113.80
6	O	273	LEU	N-CA-C	6.51	124.66	110.80
6	U	411	VAL	CG1-CB-CG2	-6.51	96.48	110.80
6	V	428	ARG	N-CA-C	6.51	120.80	112.34
2	B	260	GLU	CB-CG-CD	6.50	123.66	112.60
6	K	93	GLN	N-CA-C	6.50	121.71	113.25
6	I	164	ASP	N-CA-C	6.50	119.20	111.33
6	I	385	VAL	N-CA-C	6.50	115.98	106.55
6	J	273	LEU	N-CA-C	6.50	124.65	110.80
5	L	137	ASP	N-CA-CB	6.50	119.24	110.59
5	T	59	HIS	CG-CD2-NE2	6.50	113.70	107.20
1	A	1232	PRO	N-CA-CB	6.50	109.46	103.15
3	C	1069	ALA	N-CA-C	6.50	121.04	111.87
5	F	169	ASN	CA-C-O	6.50	127.19	119.06
6	J	513	HIS	CA-C-N	6.50	129.87	120.38
6	J	513	HIS	C-N-CA	6.50	129.87	120.38
6	O	144	ASN	CA-C-N	6.50	129.23	120.65
6	O	144	ASN	C-N-CA	6.50	129.23	120.65
6	V	161	LYS	CG-CD-CE	6.50	126.25	111.30
6	V	520	VAL	O-C-N	6.50	128.28	121.91
6	W	564	LEU	CA-C-N	6.50	130.19	120.31
6	W	564	LEU	C-N-CA	6.50	130.19	120.31
1	A	693	THR	N-CA-C	6.50	120.79	112.34
5	H	96	SER	CA-C-O	6.50	128.28	120.28
6	I	594	SER	N-CA-C	6.50	120.07	111.75
6	K	546	GLN	N-CA-C	6.50	119.19	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	M	132	THR	CA-C-O	-6.50	112.95	120.49
6	W	31	ALA	O-C-N	6.50	127.77	120.68
6	X	93	GLN	N-CA-C	6.50	121.70	113.25
4	D	184	HIS	ND1-CE1-NE2	6.50	114.90	108.40
6	I	300	LYS	CA-C-O	6.50	125.57	119.59
5	N	148	CYS	N-CA-C	6.50	119.62	111.24
6	V	331	LEU	O-C-N	6.50	131.23	122.59
2	B	993	TRP	CH2-CZ2-CE2	6.50	125.95	117.50
5	M	153	ASP	OD1-CG-OD2	6.50	138.49	122.90
6	O	174	ILE	CA-CB-CG2	6.50	121.54	110.50
5	S	1	MET	CA-C-N	6.50	127.96	119.84
5	S	1	MET	C-N-CA	6.50	127.96	119.84
6	V	255	SER	O-C-N	6.50	129.01	122.12
6	X	550	SER	N-CA-CB	6.50	121.24	110.52
6	X	638	PHE	O-C-N	6.50	129.00	122.12
6	K	607	ALA	N-CA-C	6.50	118.36	111.28
5	T	65	ILE	N-CA-C	6.50	117.28	110.72
4	D	324	PRO	CB-CA-C	6.49	122.28	111.56
5	F	271	HIS	ND1-CE1-NE2	6.49	114.89	108.40
5	H	30	THR	CA-CB-OG1	6.49	119.34	109.60
6	O	27	THR	CA-C-N	-6.49	109.14	121.54
6	O	27	THR	C-N-CA	-6.49	109.14	121.54
6	P	246	THR	CA-CB-OG1	6.49	119.34	109.60
6	U	60	SER	CA-C-O	-6.49	113.11	120.32
4	D	268	ARG	NE-CZ-NH1	6.49	127.99	121.50
4	E	140	GLN	OE1-CD-NE2	-6.49	116.11	122.60
6	I	469	VAL	N-CA-CB	6.49	118.58	110.47
5	Y	8	GLN	OE1-CD-NE2	6.49	129.09	122.60
2	B	529	TRP	CG-CD1-NE1	6.49	118.64	110.20
5	H	147	HIS	CA-C-O	6.49	128.42	120.31
6	U	60	SER	O-C-N	6.49	130.90	123.31
6	X	281	PRO	N-CA-CB	6.49	108.95	103.17
6	X	290	ALA	N-CA-C	6.49	119.68	110.40
6	I	165	THR	O-C-N	6.49	128.75	122.07
6	I	451	SER	CA-CB-OG	6.49	124.07	111.10
6	U	299	ILE	CB-CA-C	6.49	121.93	111.29
1	A	1092	ALA	N-CA-C	6.49	119.18	111.33
1	A	1166	CYS	N-CA-CB	-6.49	100.83	111.66
3	C	839	LYS	N-CA-C	6.49	119.17	111.71
6	Q	412	ARG	N-CA-CB	6.49	121.51	111.39
6	U	43	PRO	CA-C-N	6.49	133.37	121.70
6	U	43	PRO	C-N-CA	6.49	133.37	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	V	571	ARG	N-CA-C	6.49	122.07	111.37
2	B	427	LEU	CA-C-O	6.48	127.43	120.10
6	I	314	SER	CA-C-N	6.48	133.93	121.54
6	I	314	SER	C-N-CA	6.48	133.93	121.54
6	J	167	MET	CA-C-O	6.48	127.34	119.49
6	U	331	LEU	O-C-N	6.48	131.21	122.59
1	A	726	ASN	CA-CB-CG	6.48	119.08	112.60
5	H	209	ALA	N-CA-C	6.48	119.17	111.33
6	K	390	ASN	N-CA-C	6.48	119.17	111.33
6	O	496	GLU	N-CA-C	6.48	119.17	111.33
5	R	97	ARG	NE-CZ-NH1	-6.48	115.02	121.50
5	S	135	LEU	N-CA-C	6.48	119.50	108.67
6	W	213	HIS	ND1-CE1-NE2	6.48	114.88	108.40
3	C	736	MET	O-C-N	6.48	128.83	122.09
4	D	337	ARG	N-CA-C	6.48	119.17	111.33
6	K	331	LEU	O-C-N	6.48	131.21	122.59
6	K	467	THR	CA-C-O	-6.48	111.28	120.16
5	M	191	LYS	O-C-N	6.48	129.80	122.22
6	U	563	PRO	N-CD-CG	6.48	112.92	103.20
3	C	137	ARG	N-CA-C	6.48	119.17	111.33
6	J	601	THR	CB-CA-C	6.48	121.22	110.92
1	A	901	ALA	N-CA-C	6.48	122.06	111.37
6	P	167	MET	CA-C-O	6.48	127.33	119.49
2	B	503	SER	CA-C-N	6.48	131.06	120.63
2	B	503	SER	C-N-CA	6.48	131.06	120.63
6	K	601	THR	O-C-N	6.48	129.01	122.08
6	V	371	PRO	O-C-N	6.48	130.04	122.98
2	B	403	ILE	N-CA-C	6.47	117.22	110.62
3	C	836	HIS	ND1-CG-CD2	6.47	112.57	106.10
6	I	107	VAL	O-C-N	6.47	130.66	122.57
5	N	138	SER	N-CA-C	6.47	124.59	110.80
6	O	199	LEU	N-CA-C	6.47	119.16	111.71
5	S	209	ALA	N-CA-C	6.47	119.17	111.33
6	X	184	LYS	N-CA-C	6.47	118.88	111.11
4	D	318	ASN	N-CA-C	6.47	122.91	114.75
6	I	206	GLU	CA-C-O	-6.47	114.02	120.82
6	I	545	VAL	N-CA-C	6.47	118.06	111.00
6	K	42	ASN	N-CA-C	6.47	124.11	109.81
6	Q	42	ASN	N-CA-C	6.47	124.12	109.81
5	R	137	ASP	N-CA-CB	6.47	119.20	110.59
6	V	447	SER	N-CA-C	6.47	121.16	109.44
6	W	451	SER	CA-CB-OG	6.47	124.05	111.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	X	382	ILE	N-CA-C	6.47	122.80	109.34
1	A	686	ALA	N-CA-C	6.47	117.99	111.07
4	E	205	VAL	N-CA-C	6.47	117.16	110.36
6	J	637	PHE	N-CA-C	6.47	117.99	111.07
5	L	182	HIS	ND1-CE1-NE2	6.47	114.87	108.40
1	A	565	ASP	CA-C-N	6.47	128.95	120.28
1	A	565	ASP	C-N-CA	6.47	128.95	120.28
6	I	213	HIS	CE1-NE2-CD2	-6.47	102.53	109.00
6	O	246	THR	CA-CB-OG1	6.47	119.30	109.60
6	P	467	THR	CA-CB-OG1	6.47	119.31	109.60
6	Q	164	ASP	N-CA-C	6.47	119.16	111.33
5	S	15	ARG	NE-CZ-NH2	6.47	125.02	119.20
6	W	29	THR	CA-C-N	6.47	133.00	122.39
6	W	29	THR	C-N-CA	6.47	133.00	122.39
6	W	467	THR	CA-CB-OG1	6.47	119.31	109.60
6	X	496	GLU	N-CA-C	6.47	119.16	111.33
1	A	234	THR	CA-CB-OG1	6.47	119.30	109.60
4	E	134	SER	N-CA-CB	6.47	120.32	110.42
5	M	198	HIS	CB-CG-CD2	-6.47	122.79	131.20
6	X	60	SER	O-C-N	6.47	130.88	123.31
2	B	441	LEU	N-CA-C	6.47	120.13	108.17
2	B	1192	ASN	CA-C-O	-6.47	114.39	121.31
4	E	239	PRO	N-CA-C	6.47	122.38	111.32
6	I	601	THR	CB-CA-C	6.47	121.20	110.92
5	M	44	GLY	O-C-N	6.47	131.11	122.70
6	Q	466	VAL	O-C-N	6.47	129.58	122.66
6	U	42	ASN	CA-CB-CG	6.47	119.07	112.60
6	U	333	PRO	CA-C-N	6.47	132.02	121.87
6	U	333	PRO	C-N-CA	6.47	132.02	121.87
1	A	335	SER	CB-CA-C	-6.46	100.73	110.88
2	B	1147	PHE	N-CA-C	6.46	120.37	112.23
5	M	276	ASP	CA-CB-CG	6.46	119.06	112.60
6	P	87	PHE	N-CA-C	6.46	118.41	111.36
6	U	167	MET	CA-C-O	6.46	127.31	119.49
6	V	281	PRO	N-CA-CB	6.46	108.92	103.17
6	W	382	ILE	N-CA-C	6.46	122.79	109.34
2	B	321	VAL	CA-CB-CG2	6.46	121.39	110.40
2	B	737	ARG	NH1-CZ-NH2	-6.46	110.90	119.30
5	G	163	GLY	O-C-N	6.46	131.10	122.70
6	K	315	LEU	CA-C-N	-6.46	114.05	123.10
6	K	315	LEU	C-N-CA	-6.46	114.05	123.10
6	O	147	ARG	CA-CB-CG	6.46	127.03	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	Y	213	THR	CA-CB-OG1	6.46	119.30	109.60
6	I	157	ALA	N-CA-C	6.46	120.02	111.75
6	K	314	SER	CA-C-N	6.46	133.88	121.54
6	K	314	SER	C-N-CA	6.46	133.88	121.54
6	Q	87	PHE	N-CA-C	6.46	118.40	111.36
5	T	145	ARG	NE-CZ-NH1	-6.46	115.04	121.50
6	V	70	GLN	CG-CD-NE2	-6.46	106.71	116.40
1	A	774	LEU	N-CA-C	6.46	119.65	109.96
5	N	87	ASP	CA-CB-CG	6.46	119.06	112.60
6	U	284	VAL	CB-CA-C	6.46	120.48	112.02
6	U	374	VAL	CA-C-O	-6.46	113.75	120.27
6	V	643	SER	N-CA-C	6.46	118.32	111.28
6	X	591	LEU	N-CA-C	6.46	119.31	111.82
5	Y	148	CYS	N-CA-C	6.46	119.57	111.24
5	Y	253	CYS	N-CA-C	6.46	117.98	111.07
3	C	297	VAL	N-CA-C	6.46	119.12	111.05
3	C	997	ALA	N-CA-C	6.46	121.12	108.21
6	K	635	GLN	O-C-N	6.46	128.99	122.08
6	P	100	LYS	CG-CD-CE	6.46	126.15	111.30
5	R	225	ALA	N-CA-C	6.46	124.55	110.80
5	S	96	SER	CA-C-O	6.46	128.22	120.28
5	S	182	HIS	ND1-CE1-NE2	6.46	114.86	108.40
1	A	812	ALA	N-CA-C	6.46	124.55	110.80
1	A	1185	THR	N-CA-C	6.46	124.55	110.80
4	E	216	PHE	N-CA-C	6.46	117.98	111.07
5	N	145	ARG	NE-CZ-NH1	-6.46	115.05	121.50
6	Q	371	PRO	O-C-N	6.46	130.02	122.98
6	K	193	ILE	CA-CB-CG2	6.45	121.47	110.50
5	N	76	ASN	CA-CB-CG	6.45	119.05	112.60
1	A	662	ARG	N-CA-C	6.45	120.39	110.20
5	G	174	LYS	CB-CA-C	-6.45	103.01	110.17
6	K	292	ARG	NE-CZ-NH1	-6.45	115.05	121.50
5	M	96	SER	CA-C-O	6.45	128.22	120.28
1	A	1113	THR	CA-C-N	6.45	133.86	121.54
1	A	1113	THR	C-N-CA	6.45	133.86	121.54
3	C	841	PHE	O-C-N	6.45	129.50	122.15
5	H	48	ILE	N-CA-C	6.45	118.08	109.37
5	N	31	GLU	CA-C-O	-6.45	113.24	120.66
6	U	248	GLU	CA-CB-CG	6.45	127.00	114.10
1	A	1077	ASN	CB-CG-OD1	6.45	133.69	120.80
3	C	246	MET	N-CA-C	6.45	119.40	107.60
6	I	587	GLY	O-C-N	6.45	129.89	122.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	K	24	SER	N-CA-C	6.45	120.00	111.75
6	K	337	ARG	CD-NE-CZ	6.45	133.43	124.40
6	V	199	LEU	N-CA-C	6.45	119.13	111.71
6	O	132	THR	O-C-N	6.45	130.58	123.04
5	T	213	THR	CA-CB-OG1	6.45	119.27	109.60
5	Y	145	ARG	NE-CZ-NH1	-6.45	115.05	121.50
6	O	222	ASN	N-CA-C	6.45	124.06	109.81
6	V	154	ARG	CG-CD-NE	6.45	126.18	112.00
6	W	187	LEU	N-CA-C	6.45	119.13	111.33
1	A	1161	TYR	N-CA-C	6.44	120.10	108.69
6	Q	152	ARG	O-C-N	6.44	128.71	122.07
5	R	145	ARG	NE-CZ-NH1	-6.44	115.06	121.50
4	D	389	PHE	CB-CG-CD1	-6.44	109.75	120.70
6	I	625	ARG	NE-CZ-NH2	6.44	125.00	119.20
6	K	467	THR	CA-CB-OG1	6.44	119.26	109.60
6	Q	563	PRO	N-CD-CG	6.44	112.86	103.20
5	S	182	HIS	CB-CG-CD2	-6.44	122.82	131.20
6	X	371	PRO	O-C-N	6.44	130.00	122.98
1	A	943	LEU	CA-C-O	-6.44	113.75	120.38
1	A	1231	PHE	O-C-N	-6.44	113.91	121.32
4	D	334	ALA	O-C-N	6.44	129.75	122.22
5	H	198	HIS	CB-CG-CD2	-6.44	122.83	131.20
6	Q	586	VAL	N-CA-CB	-6.44	100.60	111.23
1	A	473	ARG	N-CA-CB	-6.44	100.63	110.16
6	J	29	THR	CA-C-N	6.44	132.95	122.39
6	J	29	THR	C-N-CA	6.44	132.95	122.39
6	J	496	GLU	N-CA-C	6.44	119.12	111.33
5	M	15	ARG	N-CA-C	6.44	119.29	111.82
5	M	220	ASP	N-CA-C	6.44	119.99	111.75
6	Q	331	LEU	O-C-N	6.44	131.15	122.59
6	Q	547	HIS	CB-CG-CD2	-6.44	122.83	131.20
6	U	160	GLN	CB-CA-C	6.44	121.11	110.81
2	B	287	GLN	N-CA-C	6.44	120.32	109.76
2	B	303	GLN	CA-C-O	-6.44	112.83	120.10
3	C	427	LEU	N-CA-C	6.44	118.30	111.28
5	H	220	ASP	N-CA-C	6.44	119.99	111.75
6	P	536	THR	CA-CB-OG1	6.44	119.26	109.60
6	Q	34	ILE	N-CA-C	6.44	119.03	108.99
6	Q	201	LEU	N-CA-C	6.44	120.87	112.89
6	U	222	ASN	N-CA-C	6.44	124.03	109.81
3	C	729	MET	CA-C-N	6.44	129.20	120.38
3	C	729	MET	C-N-CA	6.44	129.20	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	O	601	THR	CB-CA-C	6.44	121.15	110.92
6	X	604	VAL	O-C-N	6.44	128.20	121.89
4	D	354	GLN	N-CA-C	6.43	118.83	111.11
6	J	566	TRP	CZ3-CH2-CZ2	-6.43	113.14	121.50
6	K	510	VAL	CA-C-O	-6.43	113.91	121.05
6	P	601	THR	CB-CA-C	6.43	121.15	110.92
6	X	295	ARG	NE-CZ-NH2	6.43	124.99	119.20
1	A	1215	LEU	N-CA-C	6.43	119.22	108.73
6	Q	84	LYS	N-CA-C	6.43	118.29	111.28
5	S	250	HIS	ND1-CE1-NE2	6.43	114.83	108.40
6	W	516	LYS	CA-C-O	-6.43	113.73	120.55
2	B	697	MET	CA-C-O	-6.43	113.73	120.55
6	I	585	GLN	CG-CD-NE2	-6.43	106.75	116.40
6	O	193	ILE	CA-C-N	6.43	129.33	120.39
6	O	193	ILE	C-N-CA	6.43	129.33	120.39
6	O	520	VAL	O-C-N	6.43	128.21	121.91
6	U	572	ALA	N-CA-C	6.43	118.37	111.36
6	X	587	GLY	N-CA-C	6.43	128.42	113.18
1	A	1109	ASP	N-CA-C	6.43	119.18	108.96
3	C	104	GLN	OE1-CD-NE2	-6.43	116.17	122.60
6	P	382	ILE	N-CA-C	6.43	122.71	109.34
4	D	393	ASP	N-CA-C	6.43	119.28	111.82
6	K	317	ARG	NE-CZ-NH2	6.43	124.98	119.20
6	O	510	VAL	CA-C-O	-6.43	113.92	121.05
6	U	239	ALA	N-CA-C	6.43	119.97	111.75
6	X	157	ALA	N-CA-C	6.43	119.98	111.75
1	A	868	ASP	N-CA-C	6.42	124.01	109.81
3	C	257	ARG	N-CA-C	6.42	124.48	110.80
4	E	184	HIS	N-CA-C	6.42	119.24	111.40
6	P	409	ILE	CA-C-O	6.42	128.81	120.78
5	R	182	HIS	CB-CG-CD2	-6.42	122.85	131.20
1	A	989	HIS	ND1-CE1-NE2	6.42	114.82	108.40
2	B	872	ALA	N-CA-C	6.42	120.95	113.18
3	C	1195	TYR	CD1-CG-CD2	6.42	127.73	118.10
5	F	59	HIS	CA-CB-CG	6.42	120.22	113.80
6	J	93	GLN	N-CA-C	6.42	121.60	113.25
6	O	493	GLN	CA-C-O	6.42	128.91	120.11
1	A	479	LEU	CA-C-N	6.42	131.61	121.72
1	A	479	LEU	C-N-CA	6.42	131.61	121.72
1	A	1284	TYR	N-CA-C	6.42	119.67	109.40
3	C	923	LEU	N-CA-C	6.42	124.48	110.80
5	N	271	HIS	ND1-CE1-NE2	6.42	114.82	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	576	PHE	CA-CB-CG	6.42	120.22	113.80
6	W	610	THR	N-CA-C	6.42	120.42	112.59
6	O	607	ALA	N-CA-C	6.42	118.28	111.28
1	A	380	ASN	N-CA-CB	6.42	121.34	110.49
4	D	77	ASN	O-C-N	6.42	128.70	121.32
6	I	273	LEU	N-CA-C	6.42	124.47	110.80
5	M	132	THR	CA-CB-OG1	6.42	119.23	109.60
5	N	25	TYR	N-CA-C	6.42	119.18	108.20
5	N	205	THR	N-CA-C	6.42	118.42	109.31
6	O	29	THR	CA-CB-OG1	6.42	119.23	109.60
5	R	201	HIS	CE1-NE2-CD2	-6.42	102.58	109.00
6	U	495	SER	O-C-N	6.42	128.92	122.12
6	V	481	VAL	N-CA-C	6.42	118.73	108.85
4	E	255	ARG	N-CA-C	6.42	119.19	108.73
6	K	499	ALA	N-CA-C	6.42	118.81	111.11
5	L	145	ARG	NE-CZ-NH1	-6.42	115.08	121.50
6	Q	29	THR	CA-CB-OG1	6.42	119.23	109.60
6	Q	495	SER	O-C-N	6.42	128.92	122.12
5	S	113	PRO	O-C-N	6.42	130.29	123.10
5	T	64	THR	N-CA-C	6.42	117.94	111.07
5	T	132	THR	CA-C-O	-6.42	113.05	120.49
6	W	365	ASP	O-C-N	6.42	130.61	121.95
6	W	563	PRO	N-CD-CG	6.42	112.83	103.20
3	C	1047	TYR	O-C-N	6.42	128.27	121.02
6	U	142	ILE	N-CA-CB	6.42	119.26	110.54
1	A	354	VAL	CA-CB-CG1	6.41	121.30	110.40
1	A	418	TYR	CA-CB-CG	6.41	125.44	113.90
2	B	1025	ASN	OD1-CG-ND2	6.41	129.01	122.60
6	J	300	LYS	CA-C-O	6.41	125.49	119.59
5	M	237	CYS	N-CA-C	6.41	124.46	110.80
5	S	145	ARG	NE-CZ-NH1	-6.41	115.09	121.50
6	X	303	ASP	CA-C-O	6.41	127.10	119.60
4	E	128	TYR	O-C-N	6.41	128.67	122.07
5	H	145	ARG	NE-CZ-NH1	-6.41	115.09	121.50
5	R	15	ARG	N-CA-C	6.41	119.26	111.82
6	W	28	SER	O-C-N	-6.41	114.06	122.59
1	A	347	GLN	OE1-CD-NE2	-6.41	116.19	122.60
1	A	769	ARG	NH1-CZ-NH2	-6.41	110.97	119.30
4	E	94	ASP	CA-CB-CG	6.41	119.01	112.60
6	J	451	SER	CA-CB-OG	6.41	123.92	111.10
6	U	510	VAL	O-C-N	6.41	128.19	121.91
1	A	3	ALA	O-C-N	6.41	130.76	122.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	898	THR	N-CA-C	6.41	121.94	111.37
2	B	1168	ARG	N-CA-C	6.41	119.95	111.75
6	O	90	ASN	CA-CB-CG	6.41	119.01	112.60
6	P	196	LEU	N-CA-C	6.41	119.08	111.33
6	U	451	SER	CA-CB-OG	6.41	123.92	111.10
1	A	112	TYR	N-CA-C	6.41	118.98	110.53
5	F	253	CYS	N-CA-C	6.41	117.92	111.07
6	J	70	GLN	CG-CD-NE2	-6.41	106.79	116.40
6	J	546	GLN	N-CA-C	6.41	119.08	111.71
5	N	220	ASP	N-CA-C	6.41	119.95	111.75
5	S	48	ILE	N-CA-C	6.41	118.02	109.37
6	U	637	PHE	N-CA-C	6.41	117.92	111.07
6	W	639	ASP	N-CA-C	6.41	118.80	111.11
2	B	987	THR	O-C-N	6.40	131.57	123.12
3	C	73	ASN	N-CA-C	6.40	119.79	109.86
3	C	1068	LYS	O-C-N	6.40	128.91	122.12
6	Q	456	ASN	CA-C-N	6.40	127.85	119.84
6	Q	456	ASN	C-N-CA	6.40	127.85	119.84
6	U	129	ASN	OD1-CG-ND2	-6.40	116.20	122.60
1	A	4	VAL	O-C-N	6.40	130.39	122.32
2	B	1160	GLU	O-C-N	6.40	130.80	123.12
5	H	165	PHE	CA-CB-CG	6.40	120.20	113.80
6	J	243	ASN	OD1-CG-ND2	-6.40	116.20	122.60
6	U	34	ILE	N-CA-C	6.40	118.98	108.99
6	U	199	LEU	N-CA-C	6.40	119.07	111.71
6	V	579	ASN	OD1-CG-ND2	-6.40	116.20	122.60
1	A	268	ASP	N-CA-C	6.40	119.94	111.75
3	C	860	THR	O-C-N	6.40	128.66	122.07
4	D	77	ASN	CA-CB-CG	6.40	119.00	112.60
5	S	110	PHE	CA-CB-CG	6.40	120.20	113.80
6	U	196	LEU	N-CA-C	6.40	119.07	111.33
6	V	242	PHE	CB-CG-CD2	-6.40	109.82	120.70
5	T	15	ARG	NE-CZ-NH2	6.40	124.96	119.20
1	A	7	ILE	CA-CB-CG1	6.40	121.28	110.40
2	B	222	PHE	CA-C-O	6.40	127.36	120.20
3	C	101	SER	N-CA-CB	6.40	120.61	110.57
5	H	15	ARG	NE-CZ-NH2	6.40	124.96	119.20
6	P	519	ASN	O-C-N	6.40	128.74	122.09
5	S	214	ARG	NH1-CZ-NH2	-6.40	110.98	119.30
6	W	125	ASP	CA-CB-CG	6.40	119.00	112.60
6	X	467	THR	CA-C-O	-6.40	111.40	120.16
1	A	476	PHE	N-CA-C	6.40	118.05	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	1132	ARG	NE-CZ-NH2	6.40	124.96	119.20
6	J	125	ASP	CA-CB-CG	6.40	119.00	112.60
5	T	242	PHE	O-C-N	6.40	130.79	123.31
6	W	467	THR	CA-C-O	-6.40	111.40	120.16
1	A	95	PHE	N-CA-C	6.39	118.33	111.36
3	C	502	GLU	N-CA-CB	6.39	121.30	110.49
6	J	512	ASN	OD1-CG-ND2	-6.39	116.21	122.60
6	K	60	SER	O-C-N	6.39	130.79	123.31
6	K	299	ILE	CB-CA-C	6.39	121.78	111.29
6	K	641	ILE	CA-C-O	-6.39	114.30	120.95
6	V	316	ILE	O-C-N	6.39	131.57	122.62
6	V	604	VAL	N-CA-C	6.39	117.91	110.62
2	B	848	ASN	CA-CB-CG	6.39	118.99	112.60
3	C	179	LEU	CA-C-N	6.39	129.91	120.90
3	C	179	LEU	C-N-CA	6.39	129.91	120.90
5	G	231	HIS	CB-CG-CD2	-6.39	122.89	131.20
6	K	409	ILE	CA-C-O	6.39	128.77	120.78
5	T	96	SER	CA-C-O	6.39	128.14	120.28
6	V	165	THR	CA-CB-CG2	6.39	121.37	110.50
1	A	917	LEU	N-CA-C	6.39	118.33	111.36
4	D	225	ARG	N-CA-C	6.39	124.41	110.80
4	E	266	TYR	CB-CA-C	-6.39	97.16	109.37
6	J	409	ILE	CA-C-O	6.39	128.77	120.78
6	J	585	GLN	CG-CD-NE2	-6.39	106.81	116.40
3	C	1094	LEU	N-CA-C	6.39	119.81	109.40
5	H	139	SER	CA-C-N	6.39	129.13	120.44
5	H	139	SER	C-N-CA	6.39	129.13	120.44
6	J	185	SER	N-CA-C	6.39	118.78	111.11
6	K	47	LEU	CA-C-O	6.39	127.76	120.54
5	N	147	HIS	ND1-CE1-NE2	6.39	114.79	108.40
5	T	147	HIS	CA-C-O	6.39	128.30	120.31
6	U	593	GLN	OE1-CD-NE2	-6.39	116.21	122.60
6	X	299	ILE	CB-CA-C	6.39	121.77	111.29
2	B	908	ALA	N-CA-C	6.39	118.78	111.11
5	S	237	CYS	N-CA-C	6.39	124.41	110.80
3	C	285	ASN	OD1-CG-ND2	6.39	128.99	122.60
6	J	60	SER	CA-C-O	-6.39	113.23	120.32
6	K	196	LEU	N-CA-C	6.39	119.06	111.33
6	Q	645	TRP	O-C-N	6.39	125.70	121.23
6	V	374	VAL	CA-C-O	-6.39	113.75	120.39
1	A	505	THR	N-CA-C	6.38	121.23	113.38
3	C	336	ARG	N-CA-C	6.38	118.69	110.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	D	39	SER	CB-CA-C	6.38	121.34	110.74
4	D	390	ASN	CB-CG-ND2	-6.38	106.82	116.40
5	G	116	ASP	CA-CB-CG	6.38	118.98	112.60
6	J	510	VAL	CA-C-O	-6.38	114.40	121.17
6	O	206	GLU	CA-C-O	-6.38	114.12	120.82
6	U	292	ARG	NE-CZ-NH2	6.38	124.95	119.20
3	C	580	HIS	ND1-CE1-NE2	6.38	114.78	108.40
6	I	199	LEU	N-CA-C	6.38	119.05	111.71
6	W	42	ASN	N-CA-C	6.38	123.92	109.81
1	A	182	GLY	N-CA-C	6.38	122.16	113.99
1	A	839	GLU	N-CA-C	6.38	120.33	112.54
3	C	79	ILE	O-C-N	6.38	129.28	122.45
3	C	1103	TRP	CD2-CE2-CZ2	-6.38	116.02	122.40
5	G	171	HIS	CE1-NE2-CD2	-6.38	102.62	109.00
5	H	110	PHE	CA-CB-CG	6.38	120.18	113.80
6	I	281	PRO	N-CA-CB	6.38	108.85	103.17
6	I	639	ASP	N-CA-C	6.38	118.77	111.11
6	Q	571	ARG	N-CA-C	6.38	121.90	111.37
6	V	315	LEU	CA-C-N	-6.38	114.17	123.10
6	V	315	LEU	C-N-CA	-6.38	114.17	123.10
3	C	763	VAL	CA-CB-CG2	6.38	121.25	110.40
6	I	29	THR	N-CA-CB	6.38	121.27	110.49
6	U	42	ASN	N-CA-C	6.38	123.91	109.81
2	B	740	LYS	CA-C-O	-6.38	114.64	122.36
3	C	270	SER	N-CA-C	6.38	120.78	113.19
5	N	110	PHE	CA-CB-CG	6.38	120.18	113.80
6	O	34	ILE	N-CA-C	6.38	118.94	108.99
6	P	93	GLN	N-CA-C	6.38	121.54	113.25
5	S	271	HIS	CE1-NE2-CD2	-6.38	102.62	109.00
5	S	272	VAL	CA-C-O	6.38	125.02	118.96
4	E	192	PHE	CA-CB-CG	6.38	120.18	113.80
4	E	369	HIS	N-CA-CB	6.38	119.60	110.16
6	O	28	SER	CA-C-O	-6.38	111.39	120.51
6	O	382	ILE	N-CA-C	6.38	122.60	109.34
5	R	8	GLN	OE1-CD-NE2	6.38	128.98	122.60
6	X	213	HIS	CE1-NE2-CD2	-6.38	102.62	109.00
6	X	564	LEU	CA-C-N	6.38	130.00	120.31
6	X	564	LEU	C-N-CA	6.38	130.00	120.31
6	J	34	ILE	N-CA-C	6.38	119.08	109.20
5	T	174	LYS	CB-CA-C	-6.38	103.09	110.17
6	U	601	THR	CB-CA-C	6.38	121.06	110.92
4	E	26	LEU	CA-C-N	6.37	128.73	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	E	26	LEU	C-N-CA	6.37	128.73	120.44
6	U	23	THR	O-C-N	6.37	131.08	123.24
1	A	290	HIS	CE1-NE2-CD2	-6.37	102.63	109.00
2	B	701	ILE	N-CA-C	6.37	116.48	110.30
3	C	494	THR	CA-CB-OG1	6.37	119.16	109.60
5	G	153	ASP	OD1-CG-OD2	6.37	138.19	122.90
6	W	142	ILE	N-CA-CB	6.37	119.20	110.54
6	J	201	LEU	N-CA-C	6.37	120.79	112.89
6	Q	292	ARG	NE-CZ-NH1	-6.37	115.13	121.50
6	U	157	ALA	N-CA-C	6.37	119.90	111.75
1	A	155	PRO	N-CD-CG	6.37	112.75	103.20
1	A	1088	GLN	O-C-N	6.37	130.66	123.27
2	B	807	PHE	N-CA-C	6.37	119.95	107.98
3	C	651	PRO	CB-CA-C	6.37	119.65	111.56
3	C	1132	ARG	CA-C-O	-6.37	113.34	120.66
6	I	23	THR	O-C-N	6.37	131.07	123.24
5	L	214	ARG	NH1-CZ-NH2	-6.37	111.02	119.30
6	V	382	ILE	CA-CB-CG2	6.37	121.33	110.50
1	A	953	ASP	O-C-N	6.37	132.64	122.96
2	B	740	LYS	N-CA-C	6.37	120.17	108.58
3	C	797	ALA	CA-C-N	6.37	133.43	121.97
3	C	797	ALA	C-N-CA	6.37	133.43	121.97
4	D	169	ALA	N-CA-C	6.37	119.03	111.33
5	G	32	THR	CA-CB-OG1	6.37	119.15	109.60
6	J	184	LYS	N-CA-C	6.37	118.75	111.11
5	T	272	VAL	CA-C-O	6.37	125.01	118.96
1	A	273	ASN	OD1-CG-ND2	-6.37	116.23	122.60
1	A	465	PHE	CA-C-O	6.37	128.59	120.57
1	A	1184	VAL	N-CA-CB	-6.37	101.75	112.44
2	B	689	VAL	N-CA-C	6.37	119.18	109.12
4	D	359	TYR	N-CA-C	6.37	118.30	111.36
6	J	165	THR	O-C-N	6.37	128.63	122.07
5	N	48	ILE	N-CA-C	6.37	117.96	109.37
6	P	316	ILE	O-C-N	6.37	131.53	122.62
6	Q	196	LEU	N-CA-C	6.37	119.03	111.33
6	Q	223	PRO	O-C-N	6.37	129.06	122.18
5	T	198	HIS	CB-CG-CD2	-6.37	122.92	131.20
6	X	70	GLN	CG-CD-NE2	-6.37	106.85	116.40
5	N	153	ASP	OD1-CG-OD2	6.36	138.17	122.90
6	U	547	HIS	CB-CG-CD2	-6.36	122.93	131.20
6	U	579	ASN	OD1-CG-ND2	-6.36	116.24	122.60
1	A	1045	ASN	N-CA-C	6.36	120.19	111.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	7	ILE	CA-C-O	6.36	127.19	120.51
4	D	255	ARG	CA-CB-CG	6.36	126.82	114.10
5	G	273	GLU	N-CA-C	6.36	118.08	110.07
6	K	456	ASN	CA-C-N	6.36	127.79	119.84
6	K	456	ASN	C-N-CA	6.36	127.79	119.84
6	U	418	ASN	CB-CG-OD1	-6.36	108.08	120.80
6	W	635	GLN	O-C-N	6.36	128.89	122.08
6	X	637	PHE	N-CA-C	6.36	117.88	111.07
3	C	265	PRO	N-CA-CB	6.36	109.25	103.08
6	P	223	PRO	O-C-N	6.36	129.05	122.18
6	W	316	ILE	O-C-N	6.36	131.52	122.62
5	Y	35	PHE	N-CA-C	6.36	124.34	110.80
1	A	1146	PHE	CA-CB-CG	6.36	120.16	113.80
2	B	886	ASP	CA-CB-CG	6.36	118.96	112.60
3	C	951	PRO	N-CD-CG	6.36	112.74	103.20
4	D	176	ALA	CA-C-O	6.36	127.18	119.49
4	D	216	PHE	CA-CB-CG	6.36	120.16	113.80
5	M	182	HIS	CB-CG-CD2	-6.36	122.93	131.20
5	T	253	CYS	N-CA-C	6.36	117.87	111.07
6	U	29	THR	N-CA-CB	6.36	121.23	110.49
6	X	382	ILE	CA-CB-CG2	6.36	121.31	110.50
1	A	638	HIS	O-C-N	6.36	130.72	122.20
2	B	347	ARG	NE-CZ-NH1	-6.36	115.14	121.50
2	B	527	ALA	N-CA-C	6.36	119.02	111.71
4	D	322	VAL	CA-CB-CG1	6.36	121.20	110.40
5	M	110	PHE	CA-CB-CG	6.36	120.16	113.80
6	Q	607	ALA	N-CA-C	6.36	118.21	111.28
6	V	467	THR	CA-CB-OG1	6.36	119.13	109.60
6	J	165	THR	CA-CB-CG2	6.35	121.30	110.50
6	O	142	ILE	N-CA-CB	6.35	119.18	110.54
5	S	222	LEU	N-CA-C	6.35	121.03	113.28
6	U	164	ASP	N-CA-C	6.35	119.02	111.33
6	K	298	PHE	CG-CD2-CE2	-6.35	109.90	120.70
6	P	451	SER	CA-CB-OG	6.35	123.81	111.10
1	A	205	PHE	CA-CB-CG	6.35	120.15	113.80
3	C	730	THR	CA-C-O	6.35	127.49	120.63
4	E	184	HIS	CG-CD2-NE2	6.35	113.55	107.20
6	W	152	ARG	O-C-N	6.35	128.61	122.07
2	B	755	LEU	CA-C-O	-6.35	112.30	119.79
3	C	932	ALA	N-CA-C	6.35	120.85	112.72
6	I	283	SER	N-CA-C	6.35	119.01	111.33
5	N	191	LYS	O-C-N	6.35	129.65	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	116	SER	O-C-N	6.35	131.39	123.14
6	P	421	HIS	CE1-NE2-CD2	-6.35	102.65	109.00
6	Q	317	ARG	NE-CZ-NH2	6.35	124.91	119.20
5	S	222	LEU	O-C-N	6.35	131.43	122.41
5	T	163	GLY	O-C-N	6.35	130.95	122.70
6	U	316	ILE	O-C-N	6.35	131.51	122.62
6	U	382	ILE	N-CA-C	6.35	122.55	109.34
6	U	520	VAL	O-C-N	6.35	128.13	121.91
6	W	184	LYS	N-CA-C	6.35	118.73	111.11
2	B	1170	PRO	N-CA-CB	6.35	110.07	103.15
4	D	394	PHE	O-C-N	6.35	130.94	122.43
5	T	50	ALA	N-CA-C	6.35	119.01	111.71
6	V	493	GLN	CA-C-O	6.35	128.81	120.11
6	V	634	LYS	O-C-N	6.35	128.61	122.07
6	X	164	ASP	N-CA-C	6.35	119.01	111.33
6	X	594	SER	N-CA-C	6.35	119.87	111.75
6	V	210	VAL	N-CA-CB	6.35	117.54	110.62
3	C	784	LEU	N-CA-C	6.34	119.85	110.46
4	D	40	ARG	O-C-N	6.34	128.61	122.07
5	G	15	ARG	N-CA-C	6.34	119.00	111.71
6	X	538	ALA	N-CA-C	6.34	118.72	111.11
5	Y	214	ARG	NH1-CZ-NH2	-6.34	111.05	119.30
1	A	392	PRO	CA-C-O	-6.34	114.33	121.43
5	F	205	THR	N-CA-C	6.34	118.32	109.31
6	I	194	LEU	O-C-N	6.34	127.83	121.30
1	A	986	LEU	O-C-N	6.34	131.25	123.01
3	C	830	ASN	OD1-CG-ND2	-6.34	116.26	122.60
6	I	103	CYS	N-CA-C	6.34	124.31	110.80
6	I	193	ILE	N-CA-CB	6.34	118.39	111.41
6	K	426	PHE	CA-CB-CG	6.34	120.14	113.80
6	U	27	THR	CA-C-N	-6.34	109.43	121.54
6	U	27	THR	C-N-CA	-6.34	109.43	121.54
6	V	60	SER	O-C-N	6.34	130.73	123.31
6	V	511	SER	N-CA-CB	6.34	119.57	110.06
6	W	239	ALA	N-CA-C	6.34	119.87	111.75
5	Y	205	THR	N-CA-C	6.34	118.31	109.31
2	B	820	VAL	CA-C-O	6.34	127.86	121.27
3	C	899	ALA	N-CA-C	6.34	124.30	110.80
6	O	124	GLY	O-C-N	6.34	130.94	122.70
5	T	97	ARG	NE-CZ-NH1	-6.34	115.16	121.50
5	T	171	HIS	CA-C-O	-6.34	112.48	118.44
6	U	466	VAL	O-C-N	6.34	129.44	122.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	408	THR	CA-CB-CG2	6.34	121.28	110.50
3	C	52	GLY	CA-C-N	6.34	133.38	121.97
3	C	52	GLY	C-N-CA	6.34	133.38	121.97
5	N	8	GLN	OE1-CD-NE2	6.34	128.94	122.60
1	A	4	VAL	N-CA-CB	6.34	118.48	111.89
4	E	273	HIS	CE1-NE2-CD2	-6.34	102.66	109.00
6	O	31	ALA	O-C-N	6.34	127.59	120.68
6	O	278	THR	CA-C-N	6.34	127.76	119.84
6	O	278	THR	C-N-CA	6.34	127.76	119.84
6	P	29	THR	CA-C-N	6.34	132.78	122.39
6	P	29	THR	C-N-CA	6.34	132.78	122.39
6	Q	290	ALA	N-CA-C	6.34	119.46	110.40
6	U	121	ALA	CB-CA-C	-6.34	100.67	110.81
6	V	329	VAL	CA-C-O	6.34	127.71	119.85
6	X	451	SER	CA-CB-OG	6.34	123.77	111.10
5	Y	116	ASP	CA-CB-CG	6.34	118.94	112.60
1	A	357	ILE	N-CA-CB	6.33	119.62	111.83
6	V	489	VAL	CA-C-N	6.33	129.83	120.90
6	V	489	VAL	C-N-CA	6.33	129.83	120.90
5	F	8	GLN	OE1-CD-NE2	6.33	128.93	122.60
5	N	102	HIS	CB-CG-CD2	-6.33	122.97	131.20
6	W	196	LEU	N-CA-C	6.33	119.00	111.33
2	B	217	LYS	O-C-N	6.33	128.61	122.03
2	B	356	ASN	OD1-CG-ND2	-6.33	116.27	122.60
5	H	4	HIS	CE1-NE2-CD2	-6.33	102.67	109.00
5	H	15	ARG	N-CA-C	6.33	119.17	111.82
6	J	205	ASN	CA-CB-CG	-6.33	106.27	112.60
6	U	467	THR	CA-C-O	-6.33	111.48	120.16
6	V	625	ARG	NE-CZ-NH2	6.33	124.90	119.20
6	X	23	THR	O-C-N	6.33	131.03	123.24
1	A	458	VAL	N-CA-C	6.33	116.60	108.12
6	O	337	ARG	CD-NE-CZ	6.33	133.26	124.40
6	W	292	ARG	NE-CZ-NH1	-6.33	115.17	121.50
6	O	184	LYS	N-CA-C	6.33	118.70	111.11
5	S	134	ASP	CA-CB-CG	6.33	118.93	112.60
4	D	54	TRP	CG-CD1-NE1	6.33	118.43	110.20
4	D	241	LEU	N-CA-CB	-6.33	100.28	109.83
6	I	185	SER	N-CA-C	6.33	118.70	111.11
1	A	952	ARG	NE-CZ-NH1	-6.33	115.17	121.50
2	B	504	THR	N-CA-C	6.33	120.56	112.34
3	C	73	ASN	OD1-CG-ND2	6.33	128.93	122.60
4	E	266	TYR	CA-C-O	-6.33	113.87	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	H	225	ALA	N-CA-C	6.33	124.27	110.80
6	I	571	ARG	N-CA-C	6.33	121.81	111.37
6	P	70	GLN	CG-CD-NE2	-6.33	106.91	116.40
1	A	874	TYR	N-CA-C	6.32	118.89	109.59
3	C	386	GLU	CG-CD-OE1	6.32	132.94	118.40
6	J	283	SER	N-CA-C	6.32	118.98	111.33
5	L	4	HIS	CG-ND1-CE1	-6.32	98.55	109.30
6	U	643	SER	N-CA-C	6.32	118.17	111.28
6	V	303	ASP	CA-C-O	6.32	127.00	119.60
1	A	669	ARG	CA-C-O	-6.32	114.50	121.33
4	E	77	ASN	CA-C-N	6.32	127.74	119.84
4	E	77	ASN	C-N-CA	6.32	127.74	119.84
6	I	346	ASP	CA-C-N	6.32	133.44	122.82
6	I	346	ASP	C-N-CA	6.32	133.44	122.82
6	Q	303	ASP	CA-CB-CG	6.32	118.92	112.60
2	B	765	PRO	N-CA-C	6.32	118.41	110.70
6	I	255	SER	O-C-N	6.32	128.82	122.12
6	I	510	VAL	CA-C-O	-6.32	114.03	121.05
6	J	466	VAL	O-C-N	6.32	129.42	122.66
6	P	314	SER	CA-C-N	6.32	133.61	121.54
6	P	314	SER	C-N-CA	6.32	133.61	121.54
6	Q	161	LYS	CG-CD-CE	6.32	125.84	111.30
6	U	281	PRO	N-CA-CB	6.32	108.80	103.17
6	O	585	GLN	CB-CG-CD	6.32	123.34	112.60
6	U	155	ASP	N-CA-C	6.32	120.19	112.23
1	A	53	ASP	CA-C-O	6.32	128.98	121.08
1	A	561	GLY	O-C-N	6.32	130.91	122.70
6	I	142	ILE	N-CA-CB	6.32	119.13	110.54
5	M	189	CYS	N-CA-C	6.32	117.66	109.64
6	U	467	THR	CA-CB-OG1	6.32	119.08	109.60
6	V	157	ALA	N-CA-C	6.32	119.83	111.75
1	A	1171	GLY	N-CA-C	6.32	122.46	114.25
5	H	153	ASP	OD1-CG-OD2	6.32	138.06	122.90
6	I	465	THR	CA-CB-OG1	6.32	119.08	109.60
6	I	644	LEU	CD1-CG-CD2	6.32	124.70	110.80
6	J	278	THR	CA-C-N	6.32	127.73	119.84
6	J	278	THR	C-N-CA	6.32	127.73	119.84
6	J	489	VAL	CA-C-N	6.32	129.81	120.90
6	J	489	VAL	C-N-CA	6.32	129.81	120.90
5	S	171	HIS	O-C-N	6.32	126.38	120.51
6	U	371	PRO	O-C-N	6.32	129.86	122.98
1	A	1104	LEU	N-CA-C	6.31	117.66	109.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	E	90	ILE	O-C-N	6.31	129.04	122.54
5	M	147	HIS	CA-C-O	6.31	128.20	120.31
6	Q	129	ASN	OD1-CG-ND2	-6.31	116.29	122.60
6	Q	193	ILE	CA-CB-CG2	6.31	121.23	110.50
3	C	95	LYS	CB-CA-C	-6.31	101.29	110.13
6	P	371	PRO	O-C-N	6.31	129.86	122.98
5	T	59	HIS	CA-CB-CG	6.31	120.11	113.80
5	T	160	ILE	N-CA-CB	6.31	121.64	111.23
2	B	397	HIS	CA-CB-CG	6.31	120.11	113.80
2	B	1045	TRP	CG-CD2-CE3	-6.31	127.59	133.90
3	C	494	THR	CA-C-O	6.31	127.45	120.82
1	A	748	ARG	CB-CA-C	6.31	121.82	111.41
5	F	135	LEU	N-CA-C	6.31	119.21	108.67
5	L	96	SER	CA-C-O	6.31	128.04	120.28
6	Q	467	THR	CA-CB-OG1	6.31	119.06	109.60
6	W	447	SER	N-CA-C	6.31	120.86	109.44
3	C	359	PHE	CA-CB-CG	-6.31	107.49	113.80
4	D	62	ALA	CA-C-O	6.31	127.23	120.10
6	J	87	PHE	N-CA-C	6.31	118.24	111.36
6	J	242	PHE	CB-CG-CD2	-6.31	109.98	120.70
6	K	267	ALA	O-C-N	6.31	128.65	122.09
6	K	273	LEU	N-CA-C	6.31	124.23	110.80
6	K	411	VAL	CA-C-O	-6.31	114.49	121.05
5	M	242	PHE	O-C-N	6.31	130.69	123.31
6	Q	205	ASN	CA-CB-CG	-6.31	106.29	112.60
5	F	31	GLU	CA-C-O	-6.31	113.41	120.66
5	F	59	HIS	CG-CD2-NE2	6.31	113.51	107.20
1	A	562	SER	O-C-N	6.30	130.45	123.33
2	B	957	ILE	N-CA-C	6.30	116.46	110.53
4	E	141	ASP	O-C-N	6.30	128.65	122.09
5	R	274	PRO	N-CA-CB	6.30	109.87	103.25
5	T	191	LYS	O-C-N	6.30	130.02	122.27
1	A	653	SER	N-CA-C	6.30	121.77	113.20
3	C	893	VAL	N-CA-C	6.30	118.18	109.80
5	G	242	PHE	O-C-N	6.30	130.68	123.31
6	I	70	GLN	CG-CD-NE2	-6.30	106.95	116.40
6	I	248	GLU	CA-CB-CG	6.30	126.70	114.10
6	J	84	LYS	N-CA-C	6.30	118.15	111.28
6	J	155	ASP	N-CA-C	6.30	120.17	112.23
6	O	321	THR	N-CA-C	6.30	121.63	113.88
6	V	60	SER	CA-C-O	-6.30	113.33	120.32
1	A	106	THR	O-C-N	6.30	130.97	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	616	SER	N-CA-C	6.30	120.82	113.20
6	I	637	PHE	N-CA-C	6.30	117.81	111.07
6	K	252	LEU	N-CA-C	6.30	118.67	111.11
5	M	137	ASP	N-CA-CB	6.30	118.97	110.59
6	O	314	SER	CA-C-N	6.30	133.57	121.54
6	O	314	SER	C-N-CA	6.30	133.57	121.54
5	T	201	HIS	CE1-NE2-CD2	-6.30	102.70	109.00
6	V	165	THR	O-C-N	6.30	128.56	122.07
6	W	47	LEU	CA-C-O	6.30	127.66	120.54
6	K	246	THR	CA-CB-OG1	6.30	119.05	109.60
6	O	383	GLN	N-CA-C	6.30	120.22	112.54
2	B	592	LEU	O-C-N	6.30	129.38	122.20
5	F	97	ARG	NE-CZ-NH1	-6.30	115.20	121.50
5	Y	182	HIS	ND1-CE1-NE2	6.30	114.70	108.40
6	W	165	THR	O-C-N	6.29	128.55	122.07
6	W	576	PHE	CA-CB-CG	6.29	120.09	113.80
6	X	185	SER	N-CA-C	6.29	118.67	111.11
2	B	376	LEU	N-CA-C	6.29	121.81	112.94
2	B	1102	GLU	N-CA-C	6.29	117.81	111.07
6	K	60	SER	CA-C-O	-6.29	113.33	120.32
5	T	23	THR	N-CA-C	6.29	120.03	108.58
6	V	23	THR	O-C-N	6.29	130.98	123.24
1	A	1065	HIS	CA-CB-CG	6.29	120.09	113.80
3	C	871	VAL	CB-CA-C	6.29	120.63	112.14
4	D	389	PHE	CD1-CG-CD2	6.29	128.04	118.60
6	J	246	THR	CA-CB-OG1	6.29	119.04	109.60
6	O	42	ASN	N-CA-C	6.29	123.72	109.81
6	U	493	GLN	CA-C-O	6.29	128.73	120.11
6	W	390	ASN	N-CA-C	6.29	118.94	111.33
6	X	291	PRO	CA-C-O	-6.29	114.38	121.43
5	G	45	ARG	NE-CZ-NH1	-6.29	115.21	121.50
5	H	213	THR	CA-CB-OG1	6.29	119.03	109.60
6	Q	70	GLN	CG-CD-NE2	-6.29	106.96	116.40
5	R	25	TYR	N-CA-C	6.29	118.96	108.20
6	V	34	ILE	N-CA-C	6.29	118.80	108.99
6	I	278	THR	CA-C-N	6.29	127.70	119.84
6	I	278	THR	C-N-CA	6.29	127.70	119.84
6	J	239	ALA	N-CA-C	6.29	119.80	111.75
6	P	563	PRO	N-CD-CG	6.29	112.63	103.20
1	A	1196	LEU	N-CA-C	6.29	119.35	110.23
2	B	913	PHE	N-CA-C	6.29	120.56	113.02
5	F	15	ARG	N-CA-C	6.29	118.94	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	I	337	ARG	CD-NE-CZ	6.29	133.20	124.40
6	V	31	ALA	O-C-N	6.29	127.53	120.68
1	A	294	SER	N-CA-C	6.29	124.19	110.80
3	C	976	ASN	OD1-CG-ND2	-6.29	116.31	122.60
5	F	113	PRO	N-CA-C	6.29	120.29	110.80
6	I	610	THR	N-CA-C	6.29	120.26	112.59
5	N	276	ASP	CA-CB-CG	6.29	118.89	112.60
3	C	365	ALA	N-CA-C	6.28	117.79	111.07
6	W	434	ILE	N-CA-C	6.28	122.45	108.88
1	A	610	THR	OG1-CB-CG2	6.28	121.86	109.30
2	B	297	VAL	N-CA-C	6.28	117.03	110.62
3	C	47	ASN	CA-CB-CG	6.28	118.88	112.60
4	D	114	VAL	N-CA-C	6.28	122.40	109.34
5	F	222	LEU	O-C-N	6.28	131.33	122.41
5	F	237	CYS	N-CA-C	6.28	124.18	110.80
5	H	8	GLN	OE1-CD-NE2	6.28	128.88	122.60
5	M	182	HIS	ND1-CE1-NE2	6.28	114.68	108.40
5	N	59	HIS	CG-CD2-NE2	6.28	113.48	107.20
6	O	201	LEU	N-CA-C	6.28	120.68	112.89
6	Q	210	VAL	N-CA-CB	6.28	117.47	110.62
6	U	205	ASN	CA-CB-CG	-6.28	106.32	112.60
6	U	282	VAL	N-CA-C	6.28	122.41	109.34
6	X	390	ASN	N-CA-C	6.28	118.93	111.33
1	A	886	ASN	N-CA-C	6.28	124.17	110.80
3	C	987	THR	N-CA-CB	6.28	121.11	110.87
6	I	290	ALA	N-CA-C	6.28	119.38	110.40
6	K	566	TRP	CZ3-CH2-CZ2	-6.28	113.34	121.50
1	A	269	ALA	N-CA-CB	-6.28	100.97	110.07
6	K	590	VAL	N-CA-C	6.28	120.77	113.42
5	R	171	HIS	O-C-N	6.28	126.35	120.51
6	W	510	VAL	CA-C-O	-6.28	114.08	121.05
6	W	520	VAL	O-C-N	6.28	128.06	121.91
1	A	655	VAL	N-CA-C	6.28	118.41	108.87
4	D	117	ASN	CA-CB-CG	6.28	118.88	112.60
6	X	634	LYS	O-C-N	6.28	128.53	122.07
3	C	1205	ASP	N-CA-C	6.27	119.74	107.57
6	I	607	ALA	N-CA-C	6.27	118.12	111.28
6	K	365	ASP	O-C-N	6.27	130.42	121.95
5	L	222	LEU	N-CA-C	6.27	120.93	113.28
6	O	587	GLY	O-C-N	6.27	129.68	122.34
1	A	704	GLY	O-C-N	6.27	128.40	122.50
5	F	48	ILE	N-CA-C	6.27	117.84	109.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	F	182	HIS	ND1-CE1-NE2	6.27	114.67	108.40
5	L	50	ALA	N-CA-C	6.27	118.92	111.71
5	L	174	LYS	CB-CA-C	-6.27	103.21	110.17
1	A	213	ARG	CA-CB-CG	6.27	126.64	114.10
2	B	788	VAL	CA-C-O	6.27	126.23	120.96
2	B	1039	ARG	NE-CZ-NH1	-6.27	115.23	121.50
6	I	29	THR	CA-CB-OG1	6.27	119.01	109.60
5	R	76	ASN	CA-CB-CG	6.27	118.87	112.60
6	W	637	PHE	N-CA-C	6.27	117.78	111.07
2	B	906	ASN	OD1-CG-ND2	-6.27	116.33	122.60
3	C	1150	ASN	OD1-CG-ND2	-6.27	116.33	122.60
5	F	165	PHE	CA-CB-CG	6.27	120.07	113.80
5	G	145	ARG	NE-CZ-NH1	-6.27	115.23	121.50
6	I	116	SER	O-C-N	6.27	131.29	123.14
6	I	434	ILE	N-CA-C	6.27	122.42	108.88
6	J	548	LYS	CA-CB-CG	-6.27	101.56	114.10
6	J	638	PHE	O-C-N	6.27	128.77	122.12
6	P	29	THR	CA-CB-OG1	6.27	119.00	109.60
6	X	205	ASN	CA-CB-CG	-6.27	106.33	112.60
2	B	394	LEU	O-C-N	6.27	128.86	122.09
6	J	252	LEU	N-CA-C	6.27	118.63	111.11
5	L	113	PRO	N-CA-C	6.27	120.26	110.80
6	O	572	ALA	N-CA-C	6.27	119.09	111.82
6	P	585	GLN	CG-CD-NE2	-6.27	107.00	116.40
6	Q	160	GLN	CB-CA-C	6.27	120.84	110.81
5	L	157	HIS	ND1-CE1-NE2	6.27	114.67	108.40
3	C	798	VAL	N-CA-C	6.26	122.37	109.34
5	N	44	GLY	O-C-N	6.26	130.84	122.70
5	R	59	HIS	ND1-CE1-NE2	6.26	114.67	108.40
5	T	214	ARG	NH1-CZ-NH2	-6.26	111.16	119.30
6	K	103	CYS	N-CA-C	6.26	124.14	110.80
6	O	610	THR	N-CA-C	6.26	120.23	112.59
3	C	500	ILE	N-CA-C	6.26	117.04	107.77
5	G	165	PHE	CA-CB-CG	6.26	120.06	113.80
5	L	205	THR	N-CA-C	6.26	118.20	109.31
6	O	116	SER	O-C-N	6.26	131.28	123.14
6	O	547	HIS	CB-CG-CD2	-6.26	123.06	131.20
6	Q	641	ILE	CA-C-O	-6.26	114.44	120.95
5	T	35	PHE	N-CA-C	6.26	124.14	110.80
6	U	67	ARG	N-CA-C	6.26	124.14	110.80
6	U	303	ASP	CA-CB-CG	6.26	118.86	112.60
6	W	314	SER	CA-C-N	6.26	133.50	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	W	314	SER	C-N-CA	6.26	133.50	121.54
6	X	547	HIS	CB-CG-CD2	-6.26	123.06	131.20
5	Y	169	ASN	CA-C-O	6.26	126.89	119.06
1	A	187	ARG	NE-CZ-NH2	6.26	124.83	119.20
5	F	274	PRO	N-CA-CB	6.26	109.82	103.25
5	H	50	ALA	N-CA-C	6.26	118.91	111.71
6	P	103	CYS	N-CA-C	6.26	124.13	110.80
6	Q	231	GLN	N-CA-C	6.26	121.20	113.50
5	S	113	PRO	N-CA-C	6.26	120.25	110.80
6	W	205	ASN	CA-CB-CG	-6.26	106.34	112.60
2	B	308	ASN	OD1-CG-ND2	-6.26	116.34	122.60
2	B	634	GLN	CA-CB-CG	6.26	126.62	114.10
2	B	1212	SER	N-CA-C	6.26	120.02	112.38
4	D	232	PHE	O-C-N	6.26	130.72	123.02
4	E	182	ILE	N-CA-C	6.26	117.75	110.62
5	T	37	HIS	CE1-NE2-CD2	-6.26	102.74	109.00
6	X	394	ILE	N-CA-CB	6.26	118.79	111.66
1	A	786	VAL	N-CA-CB	6.26	119.05	110.54
2	B	670	ILE	CA-CB-CG1	6.26	121.04	110.40
4	E	309	SER	N-CA-CB	6.26	118.99	110.42
6	I	60	SER	CA-C-O	-6.26	113.38	120.32
6	I	333	PRO	CA-C-N	6.26	131.69	121.87
6	I	333	PRO	C-N-CA	6.26	131.69	121.87
6	J	338	VAL	O-C-N	6.26	131.07	122.88
6	K	282	VAL	N-CA-C	6.26	122.35	109.34
6	Q	382	ILE	CA-CB-CG2	6.26	121.14	110.50
6	U	492	ASN	CA-CB-CG	6.26	118.86	112.60
6	I	467	THR	CA-C-O	-6.25	111.59	120.16
6	K	82	PHE	CA-C-N	6.25	128.66	120.28
6	K	82	PHE	C-N-CA	6.25	128.66	120.28
5	M	76	ASN	CA-CB-CG	6.25	118.86	112.60
3	C	956	HIS	CB-CG-CD2	-6.25	123.07	131.20
5	H	237	CYS	N-CA-C	6.25	124.12	110.80
6	J	144	ASN	CA-C-N	6.25	129.48	120.79
6	J	144	ASN	C-N-CA	6.25	129.48	120.79
5	L	147	HIS	ND1-CE1-NE2	6.25	114.65	108.40
6	P	499	ALA	N-CA-C	6.25	118.61	111.11
6	Q	564	LEU	CA-C-N	6.25	129.81	120.31
6	Q	564	LEU	C-N-CA	6.25	129.81	120.31
5	S	174	LYS	CB-CA-C	-6.25	103.23	110.17
6	U	201	LEU	N-CA-C	6.25	120.64	112.89
1	A	373	TYR	CA-C-O	-6.25	111.57	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	873	ALA	N-CA-C	6.25	119.44	108.56
6	J	383	GLN	N-CA-C	6.25	120.17	112.54
6	Q	185	SER	N-CA-C	6.25	118.61	111.11
5	R	23	THR	N-CA-C	6.25	119.96	108.58
6	U	329	VAL	CA-C-O	6.25	127.60	119.85
6	W	456	ASN	CA-C-N	6.25	127.65	119.84
6	W	456	ASN	C-N-CA	6.25	127.65	119.84
1	A	1154	ARG	NE-CZ-NH1	-6.25	115.25	121.50
2	B	782	ASN	N-CA-C	6.25	117.64	108.14
3	C	826	GLN	O-C-N	-6.25	115.04	123.10
5	F	102	HIS	CB-CG-CD2	-6.25	123.07	131.20
6	K	434	ILE	N-CA-C	6.25	122.38	108.88
5	L	139	SER	CA-C-N	6.25	129.16	120.29
5	L	139	SER	C-N-CA	6.25	129.16	120.29
6	O	594	SER	N-CA-C	6.25	119.75	111.75
6	P	185	SER	N-CA-C	6.25	118.61	111.11
6	U	66	ASP	O-C-N	6.25	129.53	122.22
1	A	891	ASP	N-CA-C	6.25	120.68	111.87
2	B	1064	TRP	CG-CD2-CE3	-6.25	127.65	133.90
3	C	394	LEU	N-CA-C	6.25	117.78	110.97
4	E	129	VAL	N-CA-C	6.25	116.99	110.62
5	F	87	ASP	CA-CB-CG	6.25	118.85	112.60
6	K	292	ARG	NE-CZ-NH2	6.25	124.82	119.20
5	N	135	LEU	N-CA-C	6.25	119.10	108.67
5	N	242	PHE	O-C-N	6.25	130.62	123.31
5	R	59	HIS	CA-CB-CG	6.25	120.05	113.80
5	S	239	GLY	O-C-N	6.25	128.02	121.77
6	W	271	LEU	N-CA-C	6.25	124.11	110.80
6	W	426	PHE	CA-CB-CG	6.25	120.05	113.80
5	Y	15	ARG	N-CA-C	6.25	119.07	111.82
5	Y	102	HIS	CB-CG-CD2	-6.25	123.08	131.20
4	D	7	PHE	CA-C-N	6.25	128.86	122.80
4	D	7	PHE	C-N-CA	6.25	128.86	122.80
5	G	139	SER	CA-C-N	6.25	128.94	120.44
5	G	139	SER	C-N-CA	6.25	128.94	120.44
5	G	253	CYS	N-CA-C	6.25	117.75	111.07
6	J	164	ASP	N-CA-C	6.25	118.89	111.33
6	K	512	ASN	OD1-CG-ND2	-6.25	116.35	122.60
5	T	76	ASN	CA-CB-CG	6.25	118.85	112.60
6	V	44	THR	N-CA-CB	6.25	122.12	111.50
6	V	409	ILE	CA-C-O	6.25	128.59	120.78
1	A	358	LEU	O-C-N	6.24	130.89	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1013	ILE	O-C-N	6.24	128.03	121.91
4	E	274	TRP	N-CA-C	6.24	120.00	112.38
5	F	25	TYR	N-CA-C	6.24	118.88	108.20
5	S	220	ASP	N-CA-C	6.24	119.74	111.75
6	V	585	GLN	CG-CD-NE2	-6.24	107.03	116.40
6	W	625	ARG	NE-CZ-NH2	6.24	124.82	119.20
2	B	214	HIS	ND1-CE1-NE2	6.24	114.64	108.40
5	G	135	LEU	N-CA-C	6.24	119.09	108.67
2	B	437	ARG	O-C-N	6.24	128.50	121.32
5	G	237	CYS	N-CA-C	6.24	124.09	110.80
6	J	200	CYS	N-CA-C	6.24	118.08	111.28
6	K	28	SER	O-C-N	-6.24	114.29	122.59
6	W	24	SER	O-C-N	6.24	129.31	122.20
5	Y	189	CYS	N-CA-C	6.24	117.57	109.64
5	F	250	HIS	ND1-CE1-NE2	6.24	114.64	108.40
6	J	547	HIS	CB-CG-CD2	-6.24	123.09	131.20
5	R	147	HIS	ND1-CE1-NE2	6.24	114.64	108.40
5	S	59	HIS	ND1-CE1-NE2	6.24	114.64	108.40
6	U	213	HIS	CE1-NE2-CD2	-6.24	102.76	109.00
6	V	103	CYS	N-CA-C	6.24	124.09	110.80
6	V	124	GLY	O-C-N	6.24	130.81	122.70
6	V	333	PRO	CA-C-N	6.24	131.66	121.87
6	V	333	PRO	C-N-CA	6.24	131.66	121.87
6	V	637	PHE	N-CA-C	6.24	117.75	111.07
6	W	160	GLN	CB-CA-C	6.24	120.79	110.81
6	W	382	ILE	CA-CB-CG2	6.24	121.11	110.50
6	W	390	ASN	CA-CB-CG	6.24	118.84	112.60
6	X	520	VAL	O-C-N	6.24	128.02	121.91
3	C	1059	PHE	CA-C-O	-6.24	113.94	120.55
5	H	222	LEU	O-C-N	6.24	131.27	122.41
6	J	382	ILE	N-CA-C	6.24	122.31	109.34
6	W	496	GLU	N-CA-C	6.24	118.88	111.33
2	B	993	TRP	CA-CB-CG	6.24	125.45	113.60
2	B	1095	ASP	CA-CB-CG	6.24	118.83	112.60
3	C	706	ALA	O-C-N	6.24	128.57	122.09
6	I	345	ILE	CA-CB-CG1	6.24	121.00	110.40
5	N	137	ASP	N-CA-CB	6.24	118.88	110.59
6	O	374	VAL	CA-C-O	-6.24	113.90	120.39
6	P	390	ASN	N-CA-C	6.24	118.88	111.33
5	Y	198	HIS	CG-ND1-CE1	-6.24	98.70	109.30
5	N	64	THR	N-CA-C	6.23	117.74	111.07
6	U	144	ASN	CA-C-N	6.23	129.46	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	U	144	ASN	C-N-CA	6.23	129.46	120.79
6	U	147	ARG	CA-CB-CG	6.23	126.57	114.10
6	U	187	LEU	N-CA-C	6.23	118.87	111.33
1	A	513	SER	CA-CB-OG	6.23	123.56	111.10
2	B	875	GLN	CB-CG-CD	6.23	123.20	112.60
5	H	59	HIS	N-CA-CB	6.23	119.28	110.12
6	J	434	ILE	N-CA-C	6.23	122.34	108.88
6	K	79	ARG	O-C-N	6.23	128.57	122.09
5	M	23	THR	N-CA-C	6.23	119.92	108.58
5	N	15	ARG	NE-CZ-NH2	6.23	124.81	119.20
5	N	37	HIS	CE1-NE2-CD2	-6.23	102.77	109.00
6	O	382	ILE	CA-CB-CG2	6.23	121.09	110.50
6	V	321	THR	N-CA-C	6.23	121.55	113.88
6	V	566	TRP	CZ3-CH2-CZ2	-6.23	113.40	121.50
1	A	131	ILE	N-CA-C	6.23	122.30	109.34
4	E	203	THR	CA-CB-CG2	6.23	121.09	110.50
6	J	314	SER	CA-C-N	6.23	133.44	121.54
6	J	314	SER	C-N-CA	6.23	133.44	121.54
5	L	147	HIS	CA-C-O	6.23	128.10	120.31
5	R	65	ILE	N-CA-C	6.23	117.01	110.72
6	V	451	SER	CA-CB-OG	6.23	123.56	111.10
3	C	887	ALA	CA-C-O	6.23	126.59	119.18
6	O	121	ALA	CB-CA-C	-6.23	100.84	110.81
6	U	246	THR	CA-CB-OG1	6.23	118.94	109.60
1	A	727	LEU	CA-C-O	6.23	124.38	118.34
1	A	959	ASN	OD1-CG-ND2	-6.23	116.37	122.60
2	B	410	HIS	CE1-NE2-CD2	-6.23	102.77	109.00
3	C	710	ARG	O-C-N	6.23	129.27	122.11
3	C	911	THR	N-CA-C	6.23	118.15	111.36
6	O	239	ALA	N-CA-C	6.23	119.72	111.75
6	W	111	PHE	CA-CB-CG	6.23	120.03	113.80
3	C	460	VAL	CA-CB-CG1	6.23	120.98	110.40
6	O	93	GLN	N-CA-C	6.22	121.34	113.25
6	O	329	VAL	CA-C-O	6.22	127.57	119.85
1	A	84	TRP	N-CA-C	6.22	118.86	111.71
2	B	323	THR	CA-CB-OG1	6.22	118.93	109.60
2	B	453	LEU	N-CA-CB	-6.22	100.63	110.28
2	B	889	ARG	NH1-CZ-NH2	-6.22	111.21	119.30
5	G	59	HIS	ND1-CE1-NE2	6.22	114.62	108.40
6	O	390	ASN	CA-CB-CG	6.22	118.82	112.60
6	X	609	ARG	NE-CZ-NH1	-6.22	115.28	121.50
1	A	887	GLY	N-CA-C	6.22	122.37	114.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	998	LEU	N-CA-C	6.22	122.16	113.57
2	B	463	SER	O-C-N	6.22	130.86	122.59
6	W	280	LEU	O-C-N	6.22	128.27	121.36
1	A	1178	PRO	N-CA-C	6.22	121.64	113.86
3	C	729	MET	CA-C-O	-6.22	113.83	120.42
5	G	160	ILE	N-CA-CB	6.22	121.49	111.23
6	J	447	SER	N-CA-C	6.22	120.70	109.44
6	K	447	SER	N-CA-C	6.22	120.70	109.44
5	R	35	PHE	N-CA-C	6.22	124.05	110.80
6	X	87	PHE	N-CA-C	6.22	119.03	111.82
6	X	467	THR	CA-CB-OG1	6.22	118.93	109.60
2	B	481	ARG	NE-CZ-NH2	6.22	124.80	119.20
6	J	520	VAL	O-C-N	6.22	128.00	121.91
6	K	644	LEU	CD1-CG-CD2	6.22	124.48	110.80
5	R	4	HIS	CG-ND1-CE1	-6.22	98.73	109.30
6	U	185	SER	N-CA-C	6.22	118.57	111.11
6	V	283	SER	N-CA-C	6.22	118.85	111.33
6	X	111	PHE	CA-CB-CG	6.22	120.02	113.80
1	A	1115	LEU	N-CA-C	6.22	124.04	110.80
3	C	220	ILE	CA-CB-CG2	6.22	121.07	110.50
3	C	725	THR	O-C-N	6.22	128.80	122.09
6	I	47	LEU	CA-C-O	6.22	127.56	120.54
6	K	547	HIS	CB-CG-CD2	-6.22	123.12	131.20
6	V	292	ARG	NE-CZ-NH2	6.22	124.80	119.20
5	Y	225	ALA	N-CA-C	6.22	124.04	110.80
1	A	339	ARG	NE-CZ-NH1	-6.21	115.29	121.50
2	B	650	TRP	CD2-CE2-CZ2	-6.21	116.19	122.40
2	B	1013	VAL	CA-CB-CG1	6.21	120.96	110.40
5	M	165	PHE	N-CA-C	6.21	124.04	110.80
6	W	466	VAL	O-C-N	6.21	129.31	122.66
2	B	311	ILE	O-C-N	6.21	130.34	122.57
6	J	255	SER	O-C-N	6.21	128.71	122.12
6	Q	60	SER	CA-C-O	-6.21	113.42	120.32
6	Q	365	ASP	O-C-N	6.21	130.34	121.95
3	C	493	LEU	N-CA-CB	6.21	119.25	110.12
5	G	189	CYS	N-CA-C	6.21	117.53	109.64
6	P	434	ILE	N-CA-C	6.21	122.30	108.88
6	P	504	ASN	N-CA-CB	-6.21	99.99	110.49
5	S	59	HIS	CG-CD2-NE2	6.21	113.41	107.20
2	B	356	ASN	N-CA-C	6.21	117.72	111.07
3	C	591	ASN	OD1-CG-ND2	-6.21	116.39	122.60
6	I	84	LYS	N-CA-C	6.21	118.05	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	223	PRO	O-C-N	6.21	128.88	122.18
6	J	619	ASP	CA-CB-CG	6.21	118.81	112.60
5	R	87	ASP	CA-CB-CG	6.21	118.81	112.60
5	Y	64	THR	N-CA-C	6.21	117.71	111.07
1	A	752	ASN	CA-C-N	6.21	131.62	121.87
1	A	752	ASN	C-N-CA	6.21	131.62	121.87
2	B	437	ARG	NE-CZ-NH2	6.21	124.79	119.20
6	I	111	PHE	CA-CB-CG	6.21	120.01	113.80
5	R	134	ASP	CA-CB-CG	6.21	118.81	112.60
5	R	220	ASP	N-CA-C	6.21	119.69	111.75
5	S	273	GLU	N-CA-C	6.21	117.89	110.07
6	X	42	ASN	N-CA-C	6.21	123.53	109.81
6	X	474	THR	CA-C-N	6.21	129.64	120.95
6	X	474	THR	C-N-CA	6.21	129.64	120.95
5	H	189	CYS	N-CA-C	6.21	117.52	109.64
6	I	283	SER	CA-C-N	6.21	128.50	120.56
6	I	283	SER	C-N-CA	6.21	128.50	120.56
6	O	29	THR	N-CA-CB	6.21	120.98	110.49
6	O	282	VAL	N-CA-C	6.21	122.25	109.34
6	U	103	CYS	N-CA-C	6.21	124.02	110.80
2	B	558	THR	CA-CB-OG1	6.20	118.91	109.60
2	B	616	SER	CA-C-O	6.20	127.27	119.95
5	F	198	HIS	CG-ND1-CE1	-6.20	98.75	109.30
5	G	274	PRO	N-CA-CB	6.20	109.76	103.25
5	L	31	GLU	CA-C-O	-6.20	113.53	120.66
6	O	185	SER	N-CA-C	6.20	118.55	111.11
6	O	299	ILE	CB-CA-C	6.20	121.47	111.29
5	S	153	ASP	OD1-CG-OD2	6.20	137.79	122.90
6	V	213	HIS	CE1-NE2-CD2	-6.20	102.80	109.00
5	Y	135	LEU	N-CA-C	6.20	119.03	108.67
2	B	437	ARG	NH1-CZ-NH2	6.20	127.36	119.30
4	D	153	GLN	CB-CG-CD	6.20	123.14	112.60
6	U	579	ASN	CB-CA-C	6.20	118.30	110.98
2	B	804	HIS	ND1-CE1-NE2	6.20	114.60	108.40
3	C	1105	SER	CA-C-O	6.20	126.99	119.49
4	D	4	ARG	NH1-CZ-NH2	-6.20	111.24	119.30
4	E	338	HIS	CA-C-N	-6.20	110.36	120.72
4	E	338	HIS	C-N-CA	-6.20	110.36	120.72
5	R	205	THR	N-CA-C	6.20	118.12	109.31
6	U	213	HIS	ND1-CE1-NE2	6.20	114.60	108.40
3	C	174	VAL	O-C-N	6.20	129.24	122.36
6	K	70	GLN	CG-CD-NE2	-6.20	107.10	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	L	134	ASP	CA-CB-CG	6.20	118.80	112.60
5	N	59	HIS	CA-CB-CG	6.20	120.00	113.80
6	Q	103	CYS	N-CA-C	6.20	124.00	110.80
6	V	253	VAL	N-CA-C	6.20	116.94	110.62
6	X	283	SER	CA-C-N	6.20	128.50	120.56
6	X	283	SER	C-N-CA	6.20	128.50	120.56
5	R	59	HIS	N-CA-CB	6.20	119.23	110.12
1	A	27	PHE	N-CA-C	6.20	118.83	111.33
1	A	834	LEU	O-C-N	6.20	130.49	122.87
5	F	145	ARG	NE-CZ-NH1	-6.20	115.31	121.50
6	I	253	VAL	N-CA-C	6.20	117.68	110.62
6	I	499	ALA	N-CA-C	6.20	118.54	111.11
6	K	637	PHE	N-CA-C	6.20	117.70	111.07
5	L	64	THR	N-CA-C	6.20	117.70	111.07
6	U	352	ASP	O-C-N	6.20	132.04	122.87
6	X	255	SER	O-C-N	6.20	128.69	122.12
6	X	352	ASP	O-C-N	6.20	132.04	122.87
5	Y	274	PRO	N-CA-CB	6.20	109.75	103.25
3	C	339	LEU	N-CA-C	6.19	123.99	110.80
3	C	1081	TYR	N-CA-C	6.19	117.94	108.52
6	J	371	PRO	O-C-N	6.19	129.73	122.98
5	T	274	PRO	N-CA-CB	6.19	109.75	103.25
2	B	421	ASN	N-CA-C	6.19	118.82	111.33
3	C	45	ASP	N-CA-C	6.19	118.03	111.28
5	L	220	ASP	N-CA-C	6.19	119.68	111.75
5	M	66	GLN	CB-CG-CD	6.19	123.13	112.60
6	U	545	VAL	O-C-N	6.19	130.30	121.82
5	Y	273	GLU	N-CA-C	6.19	117.87	110.07
1	A	707	ASP	CA-C-N	6.19	132.76	122.73
1	A	707	ASP	C-N-CA	6.19	132.76	122.73
3	C	484	THR	CA-C-N	6.19	127.58	119.84
3	C	484	THR	C-N-CA	6.19	127.58	119.84
5	H	250	HIS	ND1-CE1-NE2	6.19	114.59	108.40
6	J	506	ALA	N-CA-C	6.19	123.99	110.80
5	M	225	ALA	N-CA-C	6.19	123.98	110.80
6	P	329	VAL	CA-C-O	6.19	127.53	119.85
5	R	198	HIS	CG-ND1-CE1	-6.19	98.78	109.30
5	S	37	HIS	CE1-NE2-CD2	-6.19	102.81	109.00
6	X	469	VAL	N-CA-CB	6.19	118.21	110.47
6	X	641	ILE	CA-C-O	-6.19	114.51	120.95
6	I	160	GLN	CB-CA-C	6.19	120.71	110.81
6	J	103	CYS	N-CA-C	6.19	123.98	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	O	511	SER	N-CA-CB	6.19	119.22	110.12
6	Q	60	SER	O-C-N	6.19	130.55	123.31
6	U	496	GLU	N-CA-C	6.19	118.82	111.33
1	A	154	PHE	CB-CA-C	6.19	122.36	110.17
6	I	496	GLU	N-CA-C	6.19	118.82	111.33
6	K	374	VAL	CA-C-O	-6.19	113.96	120.39
5	L	237	CYS	N-CA-C	6.19	123.98	110.80
5	M	148	CYS	N-CA-C	6.19	119.22	111.24
6	P	129	ASN	OD1-CG-ND2	-6.19	116.41	122.60
5	T	116	ASP	CA-CB-CG	6.19	118.79	112.60
6	I	210	VAL	N-CA-CB	6.19	117.36	110.62
6	J	317	ARG	NE-CZ-NH2	6.19	124.77	119.20
6	J	644	LEU	CD1-CG-CD2	6.19	124.41	110.80
6	Q	200	CYS	N-CA-C	6.19	118.02	111.28
2	B	472	LEU	N-CA-C	6.18	117.69	111.07
3	C	1136	ALA	CA-C-O	-6.18	113.32	120.49
6	J	36	LEU	N-CA-C	6.18	118.80	110.88
6	Q	329	VAL	CA-C-O	6.18	127.52	119.85
6	U	125	ASP	CA-CB-CG	6.18	118.78	112.60
6	V	338	VAL	O-C-N	6.18	130.98	122.88
6	W	409	ILE	CA-C-O	6.18	128.51	120.78
6	X	365	ASP	O-C-N	6.18	130.30	121.95
1	A	107	GLN	CA-C-O	6.18	126.83	119.60
3	C	197	ASP	N-CA-C	6.18	118.50	107.80
6	J	124	GLY	O-C-N	6.18	130.74	122.70
6	O	641	ILE	CA-C-O	-6.18	114.52	120.95
6	P	337	ARG	CD-NE-CZ	6.18	133.06	124.40
6	Q	576	PHE	CA-CB-CG	6.18	119.98	113.80
6	X	510	VAL	CA-C-O	-6.18	114.62	121.17
5	G	198	HIS	CE1-NE2-CD2	-6.18	102.82	109.00
6	P	303	ASP	CA-CB-CG	6.18	118.78	112.60
5	S	32	THR	CA-CB-OG1	6.18	118.87	109.60
6	X	317	ARG	NE-CZ-NH2	6.18	124.76	119.20
5	Y	37	HIS	CE1-NE2-CD2	-6.18	102.82	109.00
1	A	729	SER	CB-CA-C	6.18	120.70	110.81
3	C	778	ASP	N-CA-C	6.18	120.82	113.28
4	E	369	HIS	CG-CD2-NE2	6.18	113.38	107.20
6	O	155	ASP	N-CA-C	6.18	120.02	112.23
6	P	44	THR	N-CA-CB	6.18	122.00	111.50
6	U	546	GLN	N-CA-C	6.18	118.82	111.71
2	B	332	ALA	O-C-N	6.18	130.46	122.43
3	C	617	HIS	CE1-NE2-CD2	-6.18	102.82	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	D	74	ALA	N-CA-C	6.18	117.81	111.14
6	J	469	VAL	N-CA-CB	6.18	118.19	110.47
5	L	32	THR	CA-CB-OG1	6.18	118.87	109.60
6	Q	411	VAL	CA-C-O	-6.18	114.53	120.95
5	S	271	HIS	ND1-CE1-NE2	6.18	114.58	108.40
5	T	4	HIS	ND1-CE1-NE2	6.18	114.58	108.40
6	V	418	ASN	CB-CG-OD1	-6.18	108.45	120.80
6	X	428	ARG	N-CA-C	6.18	120.37	112.34
5	Y	220	ASP	N-CA-C	6.18	119.66	111.75
5	Y	242	PHE	O-C-N	6.18	130.54	123.31
1	A	1080	SER	CA-C-O	6.17	125.84	119.05
2	B	382	SER	N-CA-C	6.17	119.18	110.23
4	E	405	ALA	N-CA-C	6.17	118.80	111.33
5	M	174	LYS	CB-CA-C	-6.17	103.32	110.17
6	Q	282	VAL	N-CA-C	6.17	122.18	109.34
6	Q	585	GLN	CG-CD-NE2	-6.17	107.14	116.40
6	V	390	ASN	N-CA-C	6.17	118.80	111.33
6	X	84	LYS	N-CA-C	6.17	118.01	111.28
6	X	397	VAL	O-C-N	6.17	130.57	121.99
4	D	108	PRO	CA-C-N	6.17	126.74	120.38
4	D	108	PRO	C-N-CA	6.17	126.74	120.38
6	O	506	ALA	N-CA-C	6.17	123.95	110.80
6	P	639	ASP	CA-CB-CG	6.17	118.77	112.60
4	E	408	GLN	OE1-CD-NE2	6.17	128.77	122.60
5	F	61	ASN	N-CA-C	6.17	120.31	113.21
5	M	134	ASP	CA-CB-CG	6.17	118.77	112.60
6	P	380	VAL	O-C-N	6.17	126.60	120.92
6	Q	467	THR	CA-C-O	-6.17	111.70	120.16
1	A	399	ARG	O-C-N	6.17	130.42	122.89
6	J	519	ASN	O-C-N	6.17	128.43	122.07
6	J	579	ASN	CB-CA-C	6.17	118.26	110.98
5	L	59	HIS	N-CA-CB	6.17	119.19	110.12
6	W	282	VAL	CA-CB-CG1	6.17	120.89	110.40
6	X	346	ASP	CA-C-N	6.17	133.19	122.82
6	X	346	ASP	C-N-CA	6.17	133.19	122.82
1	A	418	TYR	N-CA-CB	-6.17	101.07	110.01
1	A	669	ARG	CG-CD-NE	6.17	125.57	112.00
2	B	1086	HIS	ND1-CG-CD2	6.17	112.27	106.10
3	C	1063	VAL	N-CA-C	6.17	116.95	110.72
6	J	390	ASN	N-CA-C	6.17	118.79	111.33
6	J	467	THR	CA-C-O	-6.17	111.71	120.16
5	L	189	CYS	N-CA-C	6.17	117.47	109.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	279	PRO	N-CA-C	6.17	125.18	112.47
6	P	315	LEU	CA-C-N	-6.17	114.46	123.10
6	P	315	LEU	C-N-CA	-6.17	114.46	123.10
6	Q	350	THR	CA-CB-OG1	6.17	118.85	109.60
6	Q	577	VAL	CA-CB-CG1	6.17	120.89	110.40
5	S	23	THR	N-CA-C	6.17	119.81	108.58
1	A	340	LEU	CA-C-O	6.17	127.09	120.55
3	C	333	PHE	O-C-N	6.17	130.52	123.12
5	H	76	ASN	CA-CB-CG	6.17	118.77	112.60
6	I	418	ASN	CB-CG-OD1	-6.17	108.47	120.80
6	K	31	ALA	O-C-N	6.17	127.40	120.68
6	O	579	ASN	OD1-CG-ND2	-6.17	116.43	122.60
6	P	333	PRO	CA-C-N	6.17	131.55	121.87
6	P	333	PRO	C-N-CA	6.17	131.55	121.87
6	Q	47	LEU	CA-C-O	6.17	127.51	120.54
5	R	198	HIS	CB-CG-CD2	-6.17	123.18	131.20
5	S	35	PHE	N-CA-C	6.17	123.94	110.80
6	W	368	THR	CA-CB-OG1	6.17	118.85	109.60
6	X	337	ARG	CD-NE-CZ	6.17	133.03	124.40
5	Y	174	LYS	CB-CA-C	-6.17	103.33	110.17
3	C	886	ASP	N-CA-C	6.17	118.80	111.71
4	E	308	TRP	CH2-CZ2-CE2	6.17	125.52	117.50
6	I	504	ASN	N-CA-CB	-6.17	100.07	110.49
5	L	25	TYR	N-CA-C	6.17	118.74	108.20
5	L	118	THR	CA-C-N	6.17	133.07	121.97
5	L	118	THR	C-N-CA	6.17	133.07	121.97
5	N	251	SER	N-CA-C	6.17	118.97	108.67
5	S	66	GLN	CB-CG-CD	6.17	123.08	112.60
5	Y	96	SER	CA-C-O	6.17	127.86	120.28
3	C	282	TYR	N-CA-C	6.16	119.57	108.17
3	C	285	ASN	CB-CA-C	6.16	120.56	110.88
3	C	294	ARG	NE-CZ-NH2	6.16	124.75	119.20
5	G	35	PHE	N-CA-C	6.16	123.93	110.80
6	Q	474	THR	CA-C-N	6.16	129.58	120.95
6	Q	474	THR	C-N-CA	6.16	129.58	120.95
6	V	115	THR	O-C-N	-6.16	115.97	123.30
5	Y	4	HIS	CB-CA-C	6.16	123.63	110.07
5	Y	66	GLN	CB-CG-CD	6.16	123.08	112.60
1	A	1037	VAL	O-C-N	-6.16	115.89	123.10
3	C	154	ASN	OD1-CG-ND2	-6.16	116.44	122.60
5	G	15	ARG	O-C-N	6.16	129.43	122.22
5	R	110	PHE	CA-CB-CG	6.16	119.96	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1269	ALA	N-CA-C	6.16	123.92	110.80
2	B	596	PRO	O-C-N	6.16	129.13	122.17
2	B	898	ALA	N-CA-CB	-6.16	101.06	110.12
3	C	1096	GLU	N-CA-C	6.16	123.92	110.80
4	D	256	ALA	N-CA-CB	-6.16	100.53	109.83
5	H	102	HIS	CB-CG-CD2	-6.16	123.19	131.20
6	I	350	THR	CA-CB-OG1	6.16	118.84	109.60
6	J	116	SER	O-C-N	6.16	131.15	123.14
6	K	639	ASP	N-CA-C	6.16	118.50	111.11
6	O	84	LYS	N-CA-C	6.16	118.00	111.28
6	U	383	GLN	N-CA-C	6.16	120.06	112.54
4	E	143	HIS	N-CA-C	6.16	117.68	110.97
5	N	66	GLN	CB-CG-CD	6.16	123.07	112.60
6	O	160	GLN	CB-CA-C	6.16	120.66	110.81
6	O	601	THR	O-C-N	6.16	128.67	122.08
6	P	365	ASP	O-C-N	6.16	130.26	121.95
6	Q	116	SER	O-C-N	6.16	131.15	123.14
6	U	587	GLY	O-C-N	6.16	129.54	122.34
6	V	337	ARG	CD-NE-CZ	6.16	133.02	124.40
6	W	60	SER	CA-C-O	-6.16	113.48	120.32
1	A	463	ASP	CA-CB-CG	6.16	118.76	112.60
2	B	300	MET	O-C-N	6.16	128.41	122.07
5	G	8	GLN	OE1-CD-NE2	6.16	128.76	122.60
6	O	585	GLN	CG-CD-NE2	-6.16	107.17	116.40
6	Q	187	LEU	N-CA-C	6.16	118.78	111.33
6	U	511	SER	N-CA-CB	6.16	119.17	110.12
6	V	607	ALA	N-CA-C	6.16	117.99	111.28
6	W	157	ALA	N-CA-C	6.16	119.63	111.75
1	A	394	ALA	CA-C-O	-6.16	114.52	120.92
6	O	168	THR	OG1-CB-CG2	-6.16	96.99	109.30
6	P	484	ILE	N-CA-CB	6.16	119.66	111.90
5	T	137	ASP	N-CA-CB	6.16	118.78	110.59
6	U	566	TRP	CZ3-CH2-CZ2	-6.16	113.50	121.50
6	V	516	LYS	CA-C-O	-6.16	114.03	120.55
5	Y	198	HIS	CB-CG-CD2	-6.16	123.20	131.20
6	W	585	GLN	CG-CD-NE2	-6.15	107.17	116.40
3	C	362	THR	CA-C-O	6.15	126.94	119.49
4	E	4	ARG	N-CA-C	6.15	123.91	110.80
6	I	196	LEU	N-CA-C	6.15	118.78	111.33
6	I	380	VAL	O-C-N	6.15	126.58	120.92
6	I	421	HIS	CE1-NE2-CD2	-6.15	102.85	109.00
6	K	206	GLU	CA-C-O	-6.15	114.36	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	350	THR	CA-CB-OG1	6.15	118.83	109.60
6	U	28	SER	CA-C-O	-6.15	111.71	120.51
6	W	87	PHE	N-CA-C	6.15	118.07	111.36
6	X	159	TRP	CB-CA-C	6.15	120.62	110.90
1	A	1091	LEU	N-CA-C	6.15	123.90	110.80
3	C	521	MET	O-C-N	6.15	129.21	122.20
5	L	251	SER	N-CA-C	6.15	118.94	108.67
6	O	371	PRO	O-C-N	6.15	129.68	122.98
5	H	135	LEU	N-CA-C	6.15	118.94	108.67
5	L	59	HIS	ND1-CE1-NE2	6.15	114.55	108.40
5	N	106	VAL	N-CA-C	6.15	122.13	109.34
6	U	644	LEU	CD1-CG-CD2	6.15	124.33	110.80
1	A	308	THR	CB-CA-C	-6.15	100.40	110.85
3	C	522	GLY	O-C-N	6.15	130.69	122.70
5	G	59	HIS	N-CA-CB	6.15	119.16	110.12
6	J	337	ARG	CD-NE-CZ	6.15	133.01	124.40
5	T	134	ASP	CA-CB-CG	6.15	118.75	112.60
5	T	237	CYS	N-CA-C	6.15	123.89	110.80
6	U	585	GLN	CG-CD-NE2	-6.15	107.18	116.40
1	A	943	LEU	O-C-N	6.15	127.38	120.68
6	I	434	ILE	CA-C-O	-6.15	111.72	119.95
6	X	29	THR	N-CA-CB	6.15	122.95	111.52
1	A	689	ASP	N-CA-C	6.14	118.48	111.11
3	C	318	THR	N-CA-CB	-6.14	101.83	111.05
3	C	856	ARG	NE-CZ-NH2	-6.14	113.67	119.20
5	H	205	THR	N-CA-C	6.14	118.03	109.31
6	K	28	SER	CA-C-O	-6.14	111.72	120.51
6	P	467	THR	CA-C-O	-6.14	111.74	120.16
5	T	48	ILE	N-CA-C	6.14	117.66	109.37
6	W	489	VAL	CA-C-N	6.14	129.56	120.90
6	W	489	VAL	C-N-CA	6.14	129.56	120.90
3	C	647	ARG	O-C-N	6.14	128.63	122.12
4	E	132	LEU	O-C-N	6.14	128.40	122.07
5	F	182	HIS	CB-CG-CD2	-6.14	123.22	131.20
5	G	147	HIS	CA-C-O	6.14	127.99	120.31
6	K	397	VAL	O-C-N	6.14	130.53	121.99
6	Q	484	ILE	N-CA-CB	6.14	119.64	111.90
6	U	118	TYR	N-CA-C	6.14	120.28	109.96
6	I	271	LEU	N-CA-C	6.14	123.88	110.80
6	J	577	VAL	CA-CB-CG1	6.14	120.84	110.40
6	O	231	GLN	N-CA-C	6.14	121.05	113.50
6	X	607	ALA	N-CA-C	6.14	117.97	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	181	TYR	CB-CG-CD2	-6.14	111.59	120.80
1	A	399	ARG	CA-C-O	-6.14	114.28	121.16
2	B	607	HIS	CG-CD2-NE2	6.14	113.34	107.20
4	D	183	ALA	N-CA-C	6.14	118.51	111.02
6	I	205	ASN	CA-CB-CG	-6.14	106.46	112.60
6	I	298	PHE	CG-CD2-CE2	-6.14	110.26	120.70
5	T	157	HIS	ND1-CE1-NE2	6.14	114.54	108.40
6	W	103	CYS	N-CA-C	6.14	123.88	110.80
1	A	1215	LEU	CA-C-O	-6.14	113.79	120.36
3	C	798	VAL	CG1-CB-CG2	-6.14	97.30	110.80
4	E	31	GLY	N-CA-C	6.14	121.59	113.37
6	O	200	CYS	N-CA-C	6.14	117.97	111.28
5	T	32	THR	CA-CB-OG1	6.14	118.81	109.60
6	V	255	SER	CA-C-O	-6.14	114.00	120.63
1	A	1194	PHE	N-CA-C	6.14	118.73	108.73
3	C	1159	GLY	O-C-N	6.14	130.68	122.70
6	I	28	SER	CA-C-O	-6.14	111.73	120.51
5	N	201	HIS	CE1-NE2-CD2	-6.14	102.86	109.00
6	O	418	ASN	CB-CG-OD1	-6.14	108.53	120.80
5	R	271	HIS	ND1-CE1-NE2	6.14	114.54	108.40
5	S	139	SER	CA-C-N	6.14	129.00	120.29
5	S	139	SER	C-N-CA	6.14	129.00	120.29
5	T	182	HIS	CB-CG-CD2	-6.14	123.22	131.20
6	U	337	ARG	CD-NE-CZ	6.14	132.99	124.40
5	Y	157	HIS	ND1-CE1-NE2	6.14	114.54	108.40
1	A	372	PHE	CA-C-N	6.13	133.26	121.54
1	A	372	PHE	C-N-CA	6.13	133.26	121.54
1	A	1056	ASP	CA-C-N	6.13	127.51	119.84
1	A	1056	ASP	C-N-CA	6.13	127.51	119.84
2	B	217	LYS	CA-C-O	-6.13	114.56	121.00
6	I	246	THR	CA-CB-OG1	6.13	118.80	109.60
6	K	594	SER	N-CA-C	6.13	119.60	111.75
6	P	547	HIS	CB-CG-CD2	-6.13	123.22	131.20
6	U	409	ILE	CA-C-O	6.13	128.45	120.78
6	W	594	SER	N-CA-C	6.13	119.60	111.75
5	Y	237	CYS	N-CA-C	6.13	123.86	110.80
5	G	118	THR	CA-C-N	6.13	133.01	121.97
5	G	118	THR	C-N-CA	6.13	133.01	121.97
3	C	42	ALA	N-CA-C	6.13	118.04	111.36
5	F	225	ALA	N-CA-C	6.13	123.86	110.80
5	H	36	ASP	N-CA-CB	-6.13	102.29	110.57
6	I	239	ALA	N-CA-C	6.13	119.60	111.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	O	193	ILE	N-CA-CB	6.13	118.16	111.41
6	O	625	ARG	NE-CZ-NH2	6.13	124.72	119.20
6	P	428	ARG	N-CA-C	6.13	120.31	112.34
5	Y	139	SER	CA-C-N	6.13	129.00	120.29
5	Y	139	SER	C-N-CA	6.13	129.00	120.29
4	D	149	ALA	N-CA-C	6.13	118.76	111.71
6	J	514	LEU	N-CA-C	6.13	119.60	111.75
5	M	222	LEU	O-C-N	6.13	131.11	122.41
6	O	409	ILE	CA-C-O	6.13	128.44	120.78
3	C	511	ILE	O-C-N	-6.13	115.68	121.87
4	E	207	THR	N-CA-C	6.13	118.46	111.11
5	N	35	PHE	N-CA-C	6.13	123.86	110.80
6	P	201	LEU	N-CA-C	6.13	120.49	112.89
1	A	1018	SER	N-CA-C	6.13	117.63	111.07
4	D	347	ILE	CA-C-O	-6.13	115.81	120.96
5	G	61	ASN	N-CA-C	6.13	120.26	113.21
5	G	225	ALA	N-CA-C	6.13	123.85	110.80
6	J	316	ILE	O-C-N	6.13	131.20	122.62
6	K	231	GLN	N-CA-C	6.13	120.88	113.41
6	U	504	ASN	N-CA-CB	-6.13	100.14	110.49
6	W	255	SER	O-C-N	6.13	128.61	122.12
1	A	1100	PHE	CA-CB-CG	6.12	119.92	113.80
2	B	664	GLY	O-C-N	6.12	130.66	122.70
2	B	959	ARG	O-C-N	6.12	128.61	122.12
5	R	135	LEU	N-CA-C	6.12	118.90	108.67
5	R	165	PHE	N-CA-C	6.12	123.85	110.80
6	U	517	LEU	N-CA-CB	-6.12	101.13	110.01
6	V	474	THR	CA-C-N	6.12	129.53	120.95
6	V	474	THR	C-N-CA	6.12	129.53	120.95
6	X	434	ILE	N-CA-C	6.12	122.11	108.88
2	B	1019	THR	CB-CA-C	-6.12	100.65	109.84
5	G	59	HIS	CA-CB-CG	6.12	119.92	113.80
5	G	87	ASP	CA-CB-CG	6.12	118.72	112.60
6	J	382	ILE	CA-CB-CG2	6.12	120.91	110.50
6	J	418	ASN	CB-CG-OD1	-6.12	108.55	120.80
6	O	571	ARG	N-CA-C	6.12	121.47	111.37
6	P	426	PHE	CA-CB-CG	6.12	119.92	113.80
6	Q	644	LEU	CD1-CG-CD2	6.12	124.27	110.80
5	T	113	PRO	N-CA-C	6.12	120.05	110.80
6	W	383	GLN	N-CA-C	6.12	120.01	112.54
1	A	276	ALA	O-C-N	6.12	130.73	122.59
2	B	729	MET	N-CA-C	6.12	121.41	111.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	D	273	HIS	ND1-CE1-NE2	6.12	114.52	108.40
4	D	341	TRP	N-CA-C	6.12	118.74	111.33
6	I	125	ASP	CA-CB-CG	6.12	118.72	112.60
6	O	564	LEU	CA-C-N	6.12	129.61	120.31
6	O	564	LEU	C-N-CA	6.12	129.61	120.31
6	X	585	GLN	CG-CD-NE2	-6.12	107.22	116.40
2	B	1213	ALA	CA-C-N	6.12	132.72	121.70
2	B	1213	ALA	C-N-CA	6.12	132.72	121.70
4	D	66	ILE	CA-C-O	-6.12	114.68	121.17
6	K	506	ALA	CA-C-O	-6.12	111.76	120.51
6	U	639	ASP	N-CA-C	6.12	118.45	111.11
6	X	504	ASN	N-CA-CB	-6.12	100.15	110.49
6	X	569	ALA	CA-C-O	-6.12	113.93	120.42
3	C	412	ASP	CA-CB-CG	6.12	118.72	112.60
4	D	144	ILE	O-C-N	6.12	127.91	121.91
5	M	145	ARG	NE-CZ-NH1	-6.12	115.38	121.50
6	Q	23	THR	O-C-N	6.12	130.77	123.24
5	S	189	CYS	N-CA-C	6.12	117.41	109.64
6	X	144	ASN	CA-C-N	6.12	129.30	120.79
6	X	144	ASN	C-N-CA	6.12	129.30	120.79
6	K	179	ALA	CA-C-O	-6.12	114.20	121.11
6	O	23	THR	O-C-N	6.12	130.76	123.24
6	P	506	ALA	N-CA-C	6.12	123.83	110.80
1	A	728	PRO	CA-C-N	6.12	128.79	120.54
1	A	728	PRO	C-N-CA	6.12	128.79	120.54
1	A	1059	ALA	N-CA-C	6.12	119.79	109.76
2	B	357	ALA	O-C-N	6.12	128.60	122.12
5	N	113	PRO	N-CA-C	6.12	120.03	110.80
6	Q	144	ASN	CA-C-N	6.12	129.29	120.79
6	Q	144	ASN	C-N-CA	6.12	129.29	120.79
5	T	225	ALA	N-CA-C	6.12	123.83	110.80
3	C	19	THR	OG1-CB-CG2	6.11	121.53	109.30
3	C	673	ASN	CA-C-N	6.11	131.44	123.00
3	C	673	ASN	C-N-CA	6.11	131.44	123.00
6	K	129	ASN	OD1-CG-ND2	-6.11	116.49	122.60
5	M	274	PRO	N-CA-CB	6.11	109.67	103.25
5	N	61	ASN	N-CA-C	6.11	120.24	113.21
5	T	135	LEU	N-CA-C	6.11	118.88	108.67
6	W	246	THR	CA-CB-OG1	6.11	118.77	109.60
1	A	484	ASP	CB-CA-C	6.11	119.38	111.50
3	C	647	ARG	NE-CZ-NH2	-6.11	113.70	119.20
5	G	272	VAL	CA-C-O	6.11	124.77	118.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	I	412	ARG	N-CA-CB	6.11	120.92	111.39
5	M	106	VAL	N-CA-C	6.11	122.05	109.34
3	C	891	PHE	CA-CB-CG	6.11	119.91	113.80
3	C	894	THR	CA-C-O	-6.11	114.51	121.72
6	P	599	ALA	N-CA-C	6.11	117.94	111.28
5	T	165	PHE	N-CA-C	6.11	123.82	110.80
6	V	368	THR	CA-CB-OG1	6.11	118.77	109.60
6	X	125	ASP	CA-CB-CG	6.11	118.71	112.60
5	Y	87	ASP	CA-CB-CG	6.11	118.71	112.60
1	A	88	ILE	CB-CG1-CD1	6.11	126.63	113.80
6	O	248	GLU	CA-CB-CG	6.11	126.32	114.10
6	O	317	ARG	NE-CZ-NH2	6.11	124.70	119.20
2	B	674	ARG	NE-CZ-NH1	-6.11	115.39	121.50
3	C	198	THR	CA-C-O	-6.11	114.45	121.47
5	H	59	HIS	CA-CB-CG	6.11	119.91	113.80
6	O	576	PHE	CA-CB-CG	6.11	119.91	113.80
6	U	210	VAL	N-CA-CB	6.11	117.28	110.62
6	V	200	CYS	N-CA-C	6.11	117.94	111.28
6	V	495	SER	O-C-N	6.11	128.59	122.12
6	X	579	ASN	OD1-CG-ND2	-6.11	116.49	122.60
4	E	95	PRO	N-CA-C	6.11	121.89	113.65
6	K	539	ILE	N-CA-C	6.11	118.72	111.09
6	Q	639	ASP	N-CA-C	6.11	118.44	111.11
6	U	382	ILE	CA-CB-CG2	6.11	120.88	110.50
6	V	29	THR	CA-C-N	6.11	132.40	122.39
6	V	29	THR	C-N-CA	6.11	132.40	122.39
3	C	45	ASP	CA-C-O	-6.10	114.08	120.55
5	H	106	VAL	N-CA-C	6.10	122.04	109.34
5	H	222	LEU	N-CA-C	6.10	120.73	113.28
6	P	140	VAL	O-C-N	-6.10	115.37	121.96
6	V	380	VAL	O-C-N	6.10	126.53	120.92
1	A	143	THR	N-CA-C	6.10	119.56	111.75
1	A	757	THR	O-C-N	6.10	129.11	122.64
4	D	7	PHE	N-CA-C	6.10	119.05	109.96
4	D	154	GLY	CA-C-O	-6.10	112.79	121.52
5	M	118	THR	CA-C-N	6.10	132.96	121.97
5	M	118	THR	C-N-CA	6.10	132.96	121.97
6	O	107	VAL	O-C-N	6.10	130.20	122.57
6	O	303	ASP	CA-CB-CG	6.10	118.70	112.60
6	U	24	SER	O-C-N	6.10	129.36	122.22
5	F	15	ARG	O-C-N	6.10	129.36	122.22
6	U	365	ASP	O-C-N	6.10	130.19	121.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	392	PRO	N-CA-CB	6.10	108.44	103.32
5	G	222	LEU	O-C-N	6.10	131.07	122.41
5	H	203	HIS	ND1-CE1-NE2	6.10	114.50	108.40
6	I	201	LEU	N-CA-C	6.10	120.45	112.89
6	K	330	GLN	CA-C-N	6.10	133.19	121.54
6	K	330	GLN	C-N-CA	6.10	133.19	121.54
6	P	15	GLY	N-CA-C	6.10	122.19	112.06
1	A	1009	ASN	OD1-CG-ND2	6.10	128.70	122.60
2	B	612	ALA	N-CA-CB	-6.10	100.91	110.06
4	D	56	ALA	O-C-N	6.10	128.58	122.12
5	G	205	THR	N-CA-C	6.10	117.97	109.31
5	H	182	HIS	CB-CG-CD2	-6.10	123.27	131.20
6	K	421	HIS	CE1-NE2-CD2	-6.10	102.90	109.00
6	K	577	VAL	CA-CB-CG1	6.10	120.77	110.40
6	O	165	THR	O-C-N	6.10	128.35	122.07
6	P	383	GLN	N-CA-C	6.10	119.98	112.54
6	P	456	ASN	N-CA-CB	-6.10	96.83	109.45
6	Q	519	ASN	O-C-N	6.10	128.58	122.12
6	V	231	GLN	N-CA-C	6.10	121.00	113.50
6	X	173	ASP	CA-CB-CG	6.10	118.70	112.60
1	A	1119	PRO	N-CA-C	6.10	125.03	112.47
4	D	131	ASN	CA-C-N	6.10	128.73	120.38
4	D	131	ASN	C-N-CA	6.10	128.73	120.38
5	G	113	PRO	N-CA-C	6.10	120.00	110.80
6	I	383	GLN	N-CA-C	6.10	119.98	112.54
6	I	604	VAL	O-C-N	6.10	127.86	121.89
5	N	274	PRO	N-CA-CB	6.10	109.65	103.25
6	W	374	VAL	CA-C-O	-6.10	114.05	120.39
6	K	118	TYR	N-CA-C	6.09	120.20	109.96
6	P	506	ALA	CA-C-O	-6.09	111.80	120.51
6	U	79	ARG	O-C-N	6.09	128.43	122.09
6	V	426	PHE	CA-CB-CG	6.09	119.89	113.80
6	W	545	VAL	N-CA-C	6.09	117.64	111.00
3	C	141	ARG	NE-CZ-NH1	-6.09	115.41	121.50
5	G	106	VAL	N-CA-C	6.09	122.01	109.34
6	K	201	LEU	N-CA-C	6.09	120.45	112.89
6	V	469	VAL	N-CA-CB	6.09	118.09	110.47
1	A	608	GLN	OE1-CD-NE2	-6.09	116.51	122.60
2	B	769	VAL	CA-C-N	6.09	127.45	119.84
2	B	769	VAL	C-N-CA	6.09	127.45	119.84
3	C	130	SER	O-C-N	6.09	128.43	122.09
6	P	619	ASP	CA-CB-CG	6.09	118.69	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	W	144	ASN	CA-C-N	6.09	129.26	120.79
6	W	144	ASN	C-N-CA	6.09	129.26	120.79
6	W	315	LEU	CA-C-N	-6.09	114.57	123.10
6	W	315	LEU	C-N-CA	-6.09	114.57	123.10
1	A	787	HIS	CB-CG-CD2	-6.09	123.28	131.20
2	B	864	PHE	CA-C-N	6.09	128.46	120.60
2	B	864	PHE	C-N-CA	6.09	128.46	120.60
2	B	883	ARG	NH1-CZ-NH2	-6.09	111.38	119.30
3	C	97	ALA	N-CA-C	6.09	118.11	108.67
3	C	1136	ALA	CA-C-N	6.09	131.58	122.99
3	C	1136	ALA	C-N-CA	6.09	131.58	122.99
4	E	348	THR	O-C-N	6.09	130.69	122.59
5	F	4	HIS	CG-ND1-CE1	-6.09	98.95	109.30
5	G	67	ASP	N-CA-C	6.09	117.92	111.28
6	P	472	ARG	CG-CD-NE	6.09	125.40	112.00
6	Q	316	ILE	O-C-N	6.09	131.15	122.62
6	Q	506	ALA	N-CA-C	6.09	123.77	110.80
6	X	90	ASN	OD1-CG-ND2	-6.09	116.51	122.60
5	Y	106	VAL	N-CA-C	6.09	122.00	109.34
5	N	237	CYS	N-CA-C	6.09	123.77	110.80
6	U	315	LEU	CA-C-N	-6.09	114.58	123.10
6	U	315	LEU	C-N-CA	-6.09	114.58	123.10
6	V	303	ASP	CA-CB-CG	6.09	118.69	112.60
1	A	519	LEU	O-C-N	6.09	131.10	123.19
1	A	1013	ILE	CB-CA-C	6.09	119.76	111.97
5	F	35	PHE	N-CA-C	6.09	123.76	110.80
5	F	66	GLN	CB-CG-CD	6.09	122.95	112.60
6	J	365	ASP	O-C-N	6.09	130.17	121.95
6	J	394	ILE	N-CA-CB	6.09	118.60	111.66
6	J	467	THR	CA-CB-OG1	6.09	118.73	109.60
6	K	625	ARG	NE-CZ-NH2	6.09	124.68	119.20
5	L	225	ALA	N-CA-C	6.09	123.76	110.80
5	N	170	GLU	N-CA-C	6.09	119.16	109.24
6	O	42	ASN	CA-CB-CG	6.09	118.69	112.60
6	U	397	VAL	O-C-N	6.09	130.45	121.99
6	X	639	ASP	CA-CB-CG	6.08	118.69	112.60
2	B	775	VAL	CA-C-O	-6.08	115.25	121.70
3	C	533	ALA	O-C-N	6.08	128.57	122.12
3	C	763	VAL	CA-C-O	6.08	128.38	120.78
2	B	640	ARG	N-CA-C	6.08	118.41	111.11
6	I	333	PRO	N-CD-CG	6.08	112.32	103.20
5	M	170	GLU	N-CA-C	6.08	119.15	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	495	SER	O-C-N	6.08	128.57	122.12
6	Q	255	SER	O-C-N	6.08	128.57	122.12
6	X	124	GLY	O-C-N	6.08	130.61	122.70
1	A	330	MET	CA-C-N	6.08	129.94	120.82
1	A	330	MET	C-N-CA	6.08	129.94	120.82
2	B	798	VAL	CA-CB-CG2	6.08	120.74	110.40
6	U	506	ALA	N-CA-C	6.08	123.75	110.80
1	A	1036	ARG	NE-CZ-NH2	6.08	124.67	119.20
5	H	59	HIS	CG-CD2-NE2	6.08	113.28	107.20
6	K	124	GLY	O-C-N	6.08	130.60	122.70
5	M	59	HIS	CG-CD2-NE2	6.08	113.28	107.20
6	W	469	VAL	N-CA-CB	6.08	118.07	110.47
6	W	579	ASN	CB-CA-C	6.08	118.15	110.98
5	Y	59	HIS	CA-CB-CG	6.08	119.88	113.80
3	C	535	TRP	CG-CD1-NE1	6.08	118.10	110.20
6	J	118	TYR	N-CA-C	6.08	120.17	109.96
1	A	507	ASN	OD1-CG-ND2	6.08	128.68	122.60
1	A	574	THR	O-C-N	6.08	130.12	123.13
1	A	643	HIS	CG-CD2-NE2	6.08	113.28	107.20
4	D	95	PRO	N-CA-CB	6.08	109.63	103.25
5	H	35	PHE	N-CA-C	6.08	123.74	110.80
6	I	599	ALA	N-CA-C	6.08	117.90	111.28
6	J	47	LEU	CA-C-O	6.08	127.41	120.54
6	V	383	GLN	N-CA-C	6.08	119.79	112.38
2	B	189	ASN	N-CA-C	6.07	123.73	110.80
3	C	1208	MET	CA-C-O	-6.07	113.86	120.36
4	E	115	ALA	CA-C-O	-6.07	114.36	121.16
5	G	211	ALA	N-CA-C	6.07	118.40	111.11
6	K	520	VAL	O-C-N	6.07	127.86	121.91
5	L	61	ASN	N-CA-C	6.07	120.19	113.21
6	O	253	VAL	N-CA-C	6.07	116.82	110.62
5	R	157	HIS	ND1-CE1-NE2	6.07	114.47	108.40
6	V	185	SER	N-CA-C	6.07	118.40	111.11
6	X	279	PRO	N-CA-C	6.07	124.98	112.47
1	A	1072	GLY	N-CA-C	6.07	123.28	115.32
1	A	828	LEU	N-CA-C	6.07	123.73	110.80
1	A	1128	THR	N-CA-C	6.07	119.11	109.40
3	C	160	PHE	CD1-CG-CD2	-6.07	109.49	118.60
5	G	31	GLU	CA-C-O	-6.07	113.68	120.66
6	J	129	ASN	OD1-CG-ND2	-6.07	116.53	122.60
6	Q	601	THR	O-C-N	6.07	128.58	122.08
6	X	333	PRO	CA-C-N	6.07	131.40	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	X	333	PRO	C-N-CA	6.07	131.40	121.87
3	C	1071	ARG	N-CA-C	6.07	118.73	107.99
4	D	35	ARG	NE-CZ-NH2	-6.07	113.74	119.20
6	I	292	ARG	NE-CZ-NH2	6.07	124.66	119.20
5	N	182	HIS	CB-CG-CD2	-6.07	123.31	131.20
6	O	484	ILE	N-CA-CB	6.07	119.55	111.90
1	A	188	PRO	N-CD-CG	6.07	112.30	103.20
1	A	355	ASP	CA-CB-CG	6.07	118.67	112.60
6	K	42	ASN	CA-CB-CG	6.07	118.67	112.60
5	N	182	HIS	ND1-CE1-NE2	6.07	114.47	108.40
6	P	213	HIS	CE1-NE2-CD2	-6.07	102.93	109.00
1	A	1151	ASN	CA-CB-CG	6.07	118.67	112.60
4	D	41	PHE	O-C-N	6.07	128.32	122.07
4	D	359	TYR	O-C-N	6.07	129.07	122.15
6	I	506	ALA	N-CA-C	6.07	123.72	110.80
5	N	253	CYS	N-CA-C	6.07	117.56	111.07
6	O	245	ALA	N-CA-C	6.07	119.16	110.24
5	R	32	THR	CA-CB-OG1	6.07	118.70	109.60
6	U	333	PRO	N-CD-CG	6.07	112.30	103.20
6	V	506	ALA	N-CA-C	6.07	123.72	110.80
5	Y	222	LEU	O-C-N	6.07	131.02	122.41
4	D	93	ARG	NE-CZ-NH2	6.06	124.66	119.20
5	L	160	ILE	N-CA-CB	6.06	121.23	111.23
3	C	272	HIS	ND1-CE1-NE2	6.06	114.46	108.40
5	H	97	ARG	NE-CZ-NH1	-6.06	115.44	121.50
6	J	299	ILE	CB-CA-C	6.06	121.23	111.29
6	K	147	ARG	CA-CB-CG	6.06	126.23	114.10
6	K	245	ALA	N-CA-C	6.06	119.15	110.24
6	K	484	ILE	N-CA-CB	6.06	119.54	111.90
6	P	416	ARG	CA-C-N	6.06	133.12	121.54
6	P	416	ARG	C-N-CA	6.06	133.12	121.54
6	W	213	HIS	CE1-NE2-CD2	-6.06	102.94	109.00
6	W	644	LEU	CD1-CG-CD2	6.06	124.14	110.80
1	A	997	TRP	CB-CG-CD2	6.06	135.29	126.80
4	E	276	HIS	N-CA-C	6.06	120.29	112.41
5	T	87	ASP	CA-CB-CG	6.06	118.66	112.60
5	M	50	ALA	N-CA-C	6.06	118.68	111.71
6	P	282	VAL	N-CA-C	6.06	121.94	109.34
6	X	24	SER	O-C-N	6.06	129.31	122.22
6	X	421	HIS	CE1-NE2-CD2	-6.06	102.94	109.00
1	A	297	PRO	N-CD-CG	6.06	112.29	103.20
2	B	298	LEU	N-CA-C	6.06	117.88	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	512	SER	CA-C-O	-6.06	114.00	120.42
3	C	87	ILE	N-CA-C	6.06	116.80	110.62
5	H	165	PHE	N-CA-C	6.06	123.70	110.80
5	L	165	PHE	CA-CB-CG	6.06	119.86	113.80
6	O	469	VAL	N-CA-CB	6.06	118.04	110.47
5	R	104	LEU	N-CA-C	6.06	119.64	107.41
6	V	193	ILE	CA-CB-CG2	6.06	120.80	110.50
5	Y	59	HIS	CG-CD2-NE2	6.06	113.26	107.20
3	C	418	GLN	OE1-CD-NE2	-6.06	116.54	122.60
6	V	292	ARG	NE-CZ-NH1	-6.06	115.44	121.50
1	A	129	ARG	N-CA-C	6.05	119.42	109.85
1	A	349	TRP	CA-C-O	-6.05	115.14	121.98
3	C	318	THR	CB-CA-C	6.05	121.62	110.24
3	C	538	ASN	N-CA-C	6.05	123.69	110.80
3	C	674	ARG	N-CA-C	6.05	118.82	109.07
3	C	737	ARG	N-CA-C	6.05	117.88	111.28
5	S	157	HIS	ND1-CE1-NE2	6.05	114.45	108.40
5	T	118	THR	CA-C-N	6.05	132.87	121.97
5	T	118	THR	C-N-CA	6.05	132.87	121.97
5	T	273	GLU	N-CA-C	6.05	117.70	110.07
6	U	184	LYS	O-C-N	6.05	128.39	122.09
6	U	569	ALA	CA-C-O	-6.05	114.00	120.42
5	G	171	HIS	O-C-N	6.05	126.14	120.51
6	I	124	GLY	O-C-N	6.05	130.57	122.70
1	A	188	PRO	N-CA-CB	6.05	109.53	103.48
1	A	652	SER	CA-CB-OG	6.05	123.20	111.10
2	B	614	GLN	N-CA-C	6.05	119.76	112.38
3	C	223	THR	CA-CB-OG1	6.05	118.68	109.60
6	I	282	VAL	N-CA-C	6.05	121.93	109.34
5	L	165	PHE	N-CA-C	6.05	123.69	110.80
5	N	211	ALA	N-CA-C	6.05	118.37	111.11
6	O	495	SER	O-C-N	6.05	128.53	122.12
5	R	253	CYS	N-CA-C	6.05	117.55	111.07
6	U	278	THR	CA-C-N	6.05	127.41	119.84
6	U	278	THR	C-N-CA	6.05	127.41	119.84
6	V	159	TRP	CB-CA-C	6.05	120.46	110.90
6	W	519	ASN	O-C-N	6.05	128.30	122.07
1	A	405	ARG	NE-CZ-NH1	6.05	127.55	121.50
2	B	607	HIS	N-CA-C	6.05	118.58	110.35
3	C	140	HIS	CE1-NE2-CD2	-6.05	102.95	109.00
3	C	865	VAL	O-C-N	6.05	128.06	121.83
4	E	289	SER	N-CA-C	6.05	118.84	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	W	278	THR	CA-C-N	6.05	127.40	119.84
6	W	278	THR	C-N-CA	6.05	127.40	119.84
5	Y	32	THR	CA-CB-OG1	6.05	118.67	109.60
1	A	659	PHE	CA-CB-CG	6.05	119.85	113.80
4	E	378	PRO	N-CA-C	6.05	124.93	112.47
5	M	67	ASP	N-CA-C	6.05	117.87	111.28
5	N	90	GLN	CB-CG-CD	6.05	122.88	112.60
6	O	252	LEU	O-C-N	6.05	128.30	122.07
6	O	639	ASP	N-CA-C	6.05	118.37	111.11
6	W	79	ARG	O-C-N	6.05	128.38	122.09
1	A	780	LEU	N-CA-C	6.05	118.10	110.24
2	B	193	LEU	N-CA-C	6.05	117.67	111.14
4	D	351	GLN	N-CA-C	6.05	121.32	113.88
4	D	371	THR	N-CA-C	6.05	117.87	111.28
6	J	42	ASN	CA-CB-CG	6.05	118.65	112.60
6	K	66	ASP	O-C-N	6.05	129.29	122.22
6	Q	426	PHE	CA-CB-CG	6.05	119.85	113.80
5	R	50	ALA	N-CA-C	6.05	118.67	111.71
2	B	1123	GLN	O-C-N	6.04	131.05	123.19
6	I	279	PRO	N-CA-C	6.04	124.92	112.47
6	K	111	PHE	CA-CB-CG	6.04	119.84	113.80
6	X	31	ALA	CA-C-N	6.04	125.26	118.97
6	X	31	ALA	C-N-CA	6.04	125.26	118.97
1	A	1136	LEU	N-CA-C	6.04	119.03	109.96
2	B	821	ALA	O-C-N	6.04	128.62	122.09
3	C	125	ARG	N-CA-C	6.04	119.12	110.24
3	C	358	GLN	N-CA-C	6.04	117.87	111.28
5	G	198	HIS	CG-ND1-CE1	-6.04	99.03	109.30
5	G	219	HIS	CE1-NE2-CD2	-6.04	102.96	109.00
6	K	316	ILE	O-C-N	6.04	131.08	122.62
5	N	225	ALA	N-CA-C	6.04	123.67	110.80
6	O	412	ARG	N-CA-CB	6.04	120.82	111.39
6	W	350	THR	CA-CB-OG1	6.04	118.66	109.60
6	X	103	CYS	N-CA-C	6.04	123.67	110.80
6	X	350	THR	CA-CB-OG1	6.04	118.66	109.60
2	B	312	ASN	CA-CB-CG	6.04	118.64	112.60
2	B	642	PHE	CA-CB-CG	6.04	119.84	113.80
3	C	388	MET	O-C-N	6.04	130.11	123.22
5	F	242	PHE	O-C-N	6.04	130.38	123.31
6	I	67	ARG	N-CA-C	6.04	123.67	110.80
6	I	315	LEU	CA-C-N	-6.04	114.64	123.10
6	I	315	LEU	C-N-CA	-6.04	114.64	123.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	I	330	GLN	CB-CG-CD	6.04	122.87	112.60
6	I	371	PRO	O-C-N	6.04	129.56	122.98
6	I	474	THR	CA-C-N	6.04	129.41	120.95
6	I	474	THR	C-N-CA	6.04	129.41	120.95
6	K	33	ALA	CA-C-O	6.04	127.76	120.99
6	K	300	LYS	CA-C-O	6.04	126.01	120.09
5	N	4	HIS	ND1-CE1-NE2	6.04	114.44	108.40
5	N	36	ASP	N-CA-CB	-6.04	102.42	110.57
5	N	50	ALA	N-CA-C	6.04	118.66	111.71
6	P	571	ARG	N-CA-C	6.04	121.34	111.37
2	B	1094	LEU	O-C-N	6.04	130.77	123.16
3	C	595	GLN	CA-CB-CG	6.04	126.18	114.10
6	J	315	LEU	CA-C-N	-6.04	114.64	123.10
6	J	315	LEU	C-N-CA	-6.04	114.64	123.10
6	J	563	PRO	N-CD-CG	6.04	112.26	103.20
1	A	547	ILE	O-C-N	6.04	127.98	121.10
3	C	170	LEU	O-C-N	6.04	132.13	122.11
6	J	428	ARG	N-CA-C	6.04	120.19	112.34
6	K	123	ALA	CA-C-O	-6.04	114.44	120.90
6	O	519	ASN	O-C-N	6.04	128.52	122.12
6	P	231	GLN	N-CA-C	6.04	120.78	113.41
6	P	547	HIS	CA-C-N	-6.04	113.11	122.05
6	P	547	HIS	C-N-CA	-6.04	113.11	122.05
6	P	644	LEU	CD1-CG-CD2	6.04	124.08	110.80
6	U	510	VAL	CA-C-O	-6.04	114.77	121.17
6	X	409	ILE	CA-C-O	6.04	128.33	120.78
6	X	499	ALA	N-CA-C	6.04	118.64	111.33
4	E	79	PHE	N-CA-C	6.04	117.86	111.28
5	F	134	ASP	CA-CB-CG	6.04	118.64	112.60
5	N	104	LEU	N-CA-C	6.04	119.61	107.41
5	S	225	ALA	N-CA-C	6.04	123.66	110.80
2	B	965	GLU	N-CA-C	6.04	117.86	111.28
2	B	1037	VAL	CA-CB-CG1	6.04	120.66	110.40
6	O	262	ALA	N-CA-C	6.04	117.53	111.07
6	Q	625	ARG	NE-CZ-NH2	6.04	124.63	119.20
6	U	298	PHE	CG-CD2-CE2	-6.04	110.44	120.70
6	V	125	ASP	CA-CB-CG	6.04	118.64	112.60
6	V	510	VAL	O-C-N	6.04	128.18	121.90
6	W	300	LYS	CA-C-O	6.04	125.24	119.99
2	B	1047	TYR	CA-CB-CG	6.03	124.76	113.90
2	B	1095	ASP	N-CA-C	6.03	118.73	108.90
3	C	779	VAL	CA-CB-CG2	6.03	120.66	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	E	68	VAL	O-C-N	6.03	127.80	121.89
4	E	86	SER	N-CA-C	6.03	118.61	108.23
6	I	191	LYS	N-CA-C	6.03	120.48	113.18
6	J	165	THR	CA-CB-OG1	6.03	118.65	109.60
6	J	292	ARG	NE-CZ-NH1	-6.03	115.47	121.50
5	M	211	ALA	N-CA-C	6.03	118.35	111.11
6	P	511	SER	N-CA-CB	6.03	119.11	110.06
6	X	586	VAL	CA-C-N	6.03	133.23	121.41
6	X	586	VAL	C-N-CA	6.03	133.23	121.41
1	A	296	ASP	O-C-N	-6.03	115.04	120.71
4	D	71	LEU	CA-C-O	-6.03	114.43	121.07
6	J	572	ALA	N-CA-C	6.03	118.82	111.82
6	U	465	THR	CA-CB-OG1	6.03	118.65	109.60
6	W	28	SER	CA-C-O	-6.03	111.89	120.51
4	E	398	GLY	N-CA-C	6.03	127.47	113.18
6	K	282	VAL	CA-CB-CG1	6.03	120.65	110.40
6	K	496	GLU	N-CA-C	6.03	118.62	111.33
1	A	476	PHE	O-C-N	6.03	128.60	122.09
3	C	279	SER	N-CA-C	6.03	123.64	110.80
4	D	179	GLY	N-CA-C	6.03	120.03	113.58
6	I	133	ASN	N-CA-C	6.03	119.67	111.17
6	J	303	ASP	CA-CB-CG	6.03	118.63	112.60
5	N	198	HIS	CB-CG-CD2	-6.03	123.36	131.20
6	O	426	PHE	CA-CB-CG	6.03	119.83	113.80
6	Q	193	ILE	CA-C-N	6.03	128.77	120.39
6	Q	193	ILE	C-N-CA	6.03	128.77	120.39
6	Q	409	ILE	CA-C-O	6.03	128.31	120.78
6	Q	430	THR	CA-C-O	6.03	127.14	120.63
6	Q	506	ALA	O-C-N	6.03	130.61	122.59
5	S	247	PHE	CA-C-N	6.03	132.23	122.29
5	S	247	PHE	C-N-CA	6.03	132.23	122.29
5	T	104	LEU	N-CA-C	6.03	119.59	107.41
6	V	459	LEU	CA-C-N	-6.03	112.62	122.26
6	V	459	LEU	C-N-CA	-6.03	112.62	122.26
3	C	356	ASN	CA-CB-CG	6.03	118.63	112.60
5	H	163	GLY	O-C-N	6.03	130.53	122.70
6	J	111	PHE	CA-CB-CG	6.03	119.83	113.80
6	P	159	TRP	CB-CA-C	6.03	120.42	110.90
6	U	350	THR	CA-CB-OG1	6.03	118.64	109.60
6	W	599	ALA	N-CA-C	6.03	117.85	111.28
6	X	383	GLN	N-CA-C	6.03	119.89	112.54
6	P	317	ARG	NE-CZ-NH2	6.02	124.62	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	469	VAL	N-CA-CB	6.02	118.00	110.47
6	V	499	ALA	N-CA-C	6.02	118.34	111.11
1	A	655	VAL	CA-CB-CG2	6.02	120.64	110.40
2	B	359	PHE	N-CA-C	6.02	117.51	111.07
2	B	578	ASP	CA-CB-CG	6.02	118.62	112.60
4	D	39	SER	N-CA-C	6.02	121.31	111.37
5	M	256	ASP	CA-CB-CG	-6.02	106.58	112.60
6	V	243	ASN	OD1-CG-ND2	-6.02	116.58	122.60
6	X	572	ALA	N-CA-C	6.02	118.81	111.82
1	A	537	ILE	N-CA-CB	-6.02	103.83	110.51
1	A	1283	GLN	CG-CD-NE2	-6.02	107.37	116.40
2	B	592	LEU	N-CA-C	6.02	119.46	111.75
3	C	821	ALA	CB-CA-C	-6.02	100.80	110.79
2	B	625	PHE	CA-CB-CG	-6.02	107.78	113.80
2	B	1115	VAL	CA-CB-CG1	6.02	120.63	110.40
6	J	90	ASN	CA-CB-CG	6.02	118.62	112.60
5	R	166	LYS	CA-CB-CG	6.02	126.14	114.10
5	S	137	ASP	N-CA-CB	6.02	118.59	110.59
6	U	165	THR	O-C-N	6.02	128.27	122.07
6	U	282	VAL	CA-CB-CG1	6.02	120.63	110.40
1	A	357	ILE	N-CA-C	6.02	115.39	106.85
1	A	1098	LEU	CA-C-O	6.02	126.72	120.40
3	C	65	ASP	N-CA-C	6.02	119.19	110.28
3	C	1033	ASP	CA-CB-CG	6.02	118.62	112.60
4	D	284	ALA	N-CA-C	6.02	117.84	111.28
5	F	222	LEU	N-CA-C	6.02	120.62	113.28
5	L	222	LEU	O-C-N	6.02	130.95	122.41
5	M	59	HIS	N-CA-CB	6.02	118.97	110.12
5	S	198	HIS	CG-ND1-CE1	-6.02	99.07	109.30
6	U	271	LEU	N-CA-C	6.02	123.61	110.80
6	W	179	ALA	CA-C-O	-6.02	114.31	121.11
6	X	506	ALA	N-CA-C	6.02	123.62	110.80
1	A	477	ARG	NE-CZ-NH2	-6.02	113.79	119.20
2	B	1147	PHE	CA-CB-CG	6.02	119.82	113.80
5	F	59	HIS	N-CA-CB	6.02	118.96	110.12
6	O	331	LEU	O-C-N	6.02	130.59	122.59
2	B	552	ASP	N-CA-C	6.01	117.92	111.36
3	C	367	ARG	NE-CZ-NH1	-6.01	115.48	121.50
3	C	674	ARG	NE-CZ-NH2	-6.01	113.79	119.20
5	L	35	PHE	N-CA-C	6.01	123.61	110.80
6	V	271	LEU	N-CA-C	6.01	123.61	110.80
4	D	249	LYS	CA-C-O	6.01	127.00	120.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	M	135	LEU	N-CA-C	6.01	118.71	108.67
5	H	66	GLN	N-CA-C	6.01	117.83	111.28
5	H	170	GLU	N-CA-C	6.01	119.04	109.24
6	J	515	ASN	OD1-CG-ND2	-6.01	116.59	122.60
6	K	506	ALA	N-CA-C	6.01	123.61	110.80
6	P	243	ASN	OD1-CG-ND2	-6.01	116.59	122.60
6	P	506	ALA	O-C-N	6.01	130.59	122.59
6	P	572	ALA	N-CA-C	6.01	118.79	111.82
6	Q	28	SER	CA-C-O	-6.01	111.92	120.51
2	B	397	HIS	ND1-CE1-NE2	6.01	114.41	108.40
2	B	683	PRO	N-CA-C	6.01	120.51	111.14
3	C	577	SER	N-CA-C	6.01	119.71	112.38
4	D	373	MET	O-C-N	6.01	128.58	122.09
5	H	147	HIS	ND1-CE1-NE2	6.01	114.41	108.40
6	O	434	ILE	N-CA-C	6.01	121.86	108.88
6	O	637	PHE	N-CA-C	6.01	117.50	111.07
6	Q	246	THR	CA-CB-OG1	6.01	118.61	109.60
6	W	267	ALA	O-C-N	6.01	128.34	122.09
3	C	1118	CYS	N-CA-C	6.01	119.26	109.59
5	M	116	ASP	CA-CB-CG	6.01	118.61	112.60
5	N	59	HIS	N-CA-CB	6.01	118.95	110.12
6	V	42	ASN	CA-CB-CG	6.01	118.61	112.60
6	X	248	GLU	N-CA-C	6.01	121.49	114.04
1	A	374	ALA	N-CA-C	6.01	123.08	109.81
1	A	1079	ILE	CB-CA-C	6.01	121.14	111.29
3	C	164	TRP	N-CA-C	6.01	120.34	112.89
3	C	263	LEU	N-CA-CB	6.01	119.21	110.32
5	F	124	ASP	N-CA-C	6.01	123.59	110.80
5	G	165	PHE	N-CA-C	6.01	123.59	110.80
6	I	231	GLN	N-CA-C	6.01	120.74	113.41
6	I	284	VAL	CB-CA-C	6.01	119.89	112.02
6	J	282	VAL	CA-CB-CG1	6.01	120.61	110.40
5	N	160	ILE	N-CA-CB	6.01	121.14	111.23
6	P	533	ASP	CB-CA-C	6.01	120.11	109.72
6	U	47	LEU	CA-C-O	6.01	127.33	120.54
1	A	44	TYR	CA-C-N	-6.00	113.80	123.23
1	A	44	TYR	C-N-CA	-6.00	113.80	123.23
2	B	701	ILE	CA-C-O	-6.00	114.86	121.29
5	F	32	THR	CA-CB-OG1	6.00	118.61	109.60
5	F	262	CYS	O-C-N	6.00	128.49	122.12
6	J	44	THR	N-CA-CB	6.00	121.71	111.50
6	O	504	ASN	N-CA-CB	-6.00	100.34	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	W	264	SER	O-C-N	6.00	129.25	122.22
2	B	274	TYR	N-CA-C	6.00	120.62	112.88
2	B	309	LEU	CD1-CG-CD2	-6.00	97.59	110.80
3	C	1186	ASN	OD1-CG-ND2	-6.00	116.60	122.60
5	F	137	ASP	N-CA-CB	6.00	118.57	110.59
6	J	447	SER	O-C-N	6.00	126.76	121.18
6	J	575	MET	N-CA-C	6.00	118.31	111.11
5	L	66	GLN	CB-CG-CD	6.00	122.81	112.60
5	R	66	GLN	CB-CG-CD	6.00	122.81	112.60
5	S	4	HIS	CG-ND1-CE1	-6.00	99.09	109.30
6	W	504	ASN	N-CA-CB	-6.00	100.34	110.49
1	A	846	ILE	N-CA-C	6.00	114.83	108.95
1	A	1021	ARG	CA-C-O	6.00	126.75	119.49
1	A	1035	LEU	CA-C-O	-6.00	114.14	120.80
3	C	24	ALA	N-CA-C	6.00	118.59	111.33
6	K	563	PRO	N-CD-CG	6.00	112.20	103.20
5	M	15	ARG	NE-CZ-NH2	6.00	124.60	119.20
6	O	303	ASP	CA-C-O	6.00	126.62	119.60
4	D	213	ALA	N-CA-CB	6.00	118.71	110.01
5	L	106	VAL	N-CA-C	6.00	121.82	109.34
5	S	199	ASP	N-CA-CB	6.00	119.44	109.60
6	V	300	LYS	CA-C-O	6.00	125.97	120.09
6	V	548	LYS	CA-CB-CG	-6.00	102.10	114.10
1	A	1200	ASP	CA-CB-CG	6.00	118.60	112.60
2	B	542	THR	N-CA-C	6.00	119.32	109.72
4	E	337	ARG	N-CA-C	6.00	117.82	111.28
5	G	157	HIS	ND1-CE1-NE2	6.00	114.40	108.40
6	P	639	ASP	N-CA-C	6.00	118.31	111.11
6	Q	414	GLN	CG-CD-OE1	6.00	132.80	120.80
5	T	59	HIS	N-CA-CB	6.00	118.94	110.12
5	T	165	PHE	CA-CB-CG	6.00	119.80	113.80
5	Y	147	HIS	ND1-CE1-NE2	6.00	114.40	108.40
1	A	788	GLN	OE1-CD-NE2	6.00	128.60	122.60
2	B	853	ARG	NE-CZ-NH1	6.00	127.50	121.50
4	D	184	HIS	O-C-N	6.00	129.24	122.22
6	I	118	TYR	N-CA-C	6.00	120.04	109.96
6	J	278	THR	O-C-N	-6.00	113.96	121.70
6	J	363	ASN	CA-CB-CG	6.00	118.60	112.60
5	M	59	HIS	ND1-CE1-NE2	6.00	114.40	108.40
5	N	116	ASP	CA-CB-CG	6.00	118.60	112.60
6	P	579	ASN	CB-CA-C	6.00	118.06	110.98
6	Q	496	GLU	N-CA-C	6.00	118.58	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	W	571	ARG	N-CA-C	6.00	121.26	111.37
2	B	262	ARG	NE-CZ-NH2	6.00	124.59	119.20
2	B	775	VAL	O-C-N	5.99	129.01	122.36
3	C	774	LEU	CB-CA-C	-5.99	100.08	110.09
6	J	133	ASN	N-CA-C	5.99	119.62	111.17
6	P	285	PHE	CB-CG-CD1	-5.99	110.51	120.70
6	P	496	GLU	N-CA-C	5.99	118.58	111.33
5	R	36	ASP	N-CA-CB	-5.99	102.48	110.57
6	V	504	ASN	N-CA-CB	-5.99	100.36	110.49
6	I	382	ILE	CA-CB-CG2	5.99	120.69	110.50
6	O	67	ARG	N-CA-C	5.99	123.56	110.80
6	V	184	LYS	N-CA-C	5.99	118.33	111.02
4	E	328	TYR	CA-CB-CG	5.99	124.68	113.90
5	G	76	ASN	CA-CB-CG	5.99	118.59	112.60
6	I	27	THR	CA-C-N	-5.99	110.10	121.54
6	I	27	THR	C-N-CA	-5.99	110.10	121.54
5	N	174	LYS	CB-CA-C	-5.99	103.52	110.17
6	P	278	THR	O-C-N	-5.99	113.97	121.70
6	P	566	TRP	CZ3-CH2-CZ2	-5.99	113.71	121.50
5	S	205	THR	N-CA-C	5.99	117.82	109.31
6	V	47	LEU	CA-C-O	5.99	127.31	120.54
1	A	1116	GLY	O-C-N	5.99	129.79	122.84
2	B	841	PHE	N-CA-C	5.99	118.77	111.82
3	C	884	PRO	N-CA-CB	5.99	109.64	103.23
3	C	957	ILE	CA-C-O	5.99	127.50	121.27
4	D	273	HIS	N-CA-C	5.99	123.56	110.80
5	F	36	ASP	N-CA-CB	-5.99	102.49	110.57
6	I	161	LYS	CG-CD-CE	5.99	125.07	111.30
6	O	390	ASN	N-CA-C	5.99	118.58	111.33
6	Q	317	ARG	NH1-CZ-NH2	-5.99	111.51	119.30
6	V	590	VAL	N-CA-C	5.99	120.43	113.42
6	W	428	ARG	N-CA-C	5.99	120.12	112.34
2	B	224	TRP	CG-CD2-CE3	-5.99	127.91	133.90
3	C	348	ALA	CA-C-O	-5.99	113.55	120.49
6	P	282	VAL	CA-CB-CG1	5.99	120.58	110.40
5	S	61	ASN	N-CA-C	5.99	120.09	113.21
6	U	610	THR	N-CA-C	5.99	119.89	112.59
2	B	853	ARG	N-CA-C	5.99	117.47	111.07
3	C	304	PHE	CA-CB-CG	5.99	119.79	113.80
3	C	343	ALA	N-CA-C	5.99	118.57	111.33
6	P	60	SER	O-C-N	5.99	130.31	123.31
6	V	111	PHE	CA-CB-CG	5.99	119.78	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	V	350	THR	CA-CB-OG1	5.99	118.58	109.60
6	W	586	VAL	N-CA-CB	-5.99	101.35	111.23
6	X	292	ARG	NE-CZ-NH1	-5.98	115.52	121.50
2	B	780	ILE	CA-CB-CG2	5.98	120.67	110.50
3	C	186	ALA	N-CA-C	5.98	121.50	113.72
5	H	201	HIS	CE1-NE2-CD2	-5.98	103.02	109.00
6	K	57	THR	N-CA-C	5.98	123.54	110.80
6	W	337	ARG	CD-NE-CZ	5.98	132.78	124.40
3	C	747	ILE	CA-CB-CG2	5.98	120.67	110.50
6	I	129	ASN	OD1-CG-ND2	-5.98	116.62	122.60
6	I	466	VAL	O-C-N	5.98	129.06	122.66
6	K	185	SER	N-CA-C	5.98	118.29	111.11
6	Q	428	ARG	N-CA-C	5.98	120.11	112.34
6	V	644	LEU	CD1-CG-CD2	5.98	123.95	110.80
6	W	533	ASP	OD1-CG-OD2	-5.98	108.55	122.90
6	X	201	LEU	N-CA-C	5.98	120.31	112.89
4	E	155	PRO	O-C-N	5.98	130.71	122.64
5	F	220	ASP	N-CA-C	5.98	119.40	111.75
6	I	267	ALA	O-C-N	5.98	128.31	122.09
6	V	252	LEU	N-CA-C	5.98	118.28	111.11
1	A	198	ARG	CB-CA-C	-5.98	99.77	108.91
6	K	382	ILE	CA-CB-CG2	5.98	120.66	110.50
6	O	159	TRP	CB-CA-C	5.98	120.35	110.90
6	P	205	ASN	CA-CB-CG	-5.98	106.62	112.60
5	S	87	ASP	CA-CB-CG	5.98	118.58	112.60
6	W	299	ILE	CB-CA-C	5.98	121.09	111.29
6	X	271	LEU	N-CA-C	5.98	123.53	110.80
1	A	345	ASP	CB-CA-C	5.98	117.84	108.88
3	C	608	GLN	N-CA-C	5.98	118.58	111.71
6	K	579	ASN	CB-CA-C	5.98	118.03	110.98
6	V	133	ASN	N-CA-C	5.98	119.60	111.17
1	A	1158	ASP	CA-C-N	5.97	127.31	119.84
1	A	1158	ASP	C-N-CA	5.97	127.31	119.84
2	B	1097	ALA	N-CA-C	5.97	120.88	112.75
3	C	478	THR	N-CA-C	5.97	117.48	110.97
6	J	67	ARG	N-CA-C	5.97	123.53	110.80
6	Q	514	LEU	N-CA-C	5.97	119.40	111.75
6	V	144	ASN	CA-C-N	5.97	129.10	120.79
6	V	144	ASN	C-N-CA	5.97	129.10	120.79
6	W	493	GLN	CA-C-O	5.97	128.29	120.11
6	X	489	VAL	CA-C-N	5.97	129.32	120.90
6	X	489	VAL	C-N-CA	5.97	129.32	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	Y	61	ASN	N-CA-C	5.97	120.08	113.21
5	H	242	PHE	O-C-N	5.97	130.30	123.31
5	H	253	CYS	N-CA-C	5.97	117.46	111.07
6	I	317	ARG	NH1-CZ-NH2	-5.97	111.53	119.30
6	J	545	VAL	O-C-N	5.97	130.00	121.82
5	R	48	ILE	N-CA-C	5.97	117.43	109.37
5	S	274	PRO	N-CA-CB	5.97	109.52	103.25
6	V	118	TYR	N-CA-C	5.97	119.99	109.96
6	W	282	VAL	N-CA-C	5.97	121.76	109.34
6	W	506	ALA	N-CA-C	5.97	123.52	110.80
1	A	1155	ILE	CA-CB-CG2	5.97	120.65	110.50
5	G	104	LEU	N-CA-C	5.97	119.47	107.41
6	K	576	PHE	CA-CB-CG	5.97	119.77	113.80
6	Q	506	ALA	CA-C-O	-5.97	111.97	120.51
6	U	317	ARG	NH1-CZ-NH2	-5.97	111.54	119.30
1	A	164	VAL	CA-C-O	5.97	127.35	119.53
3	C	341	ALA	CA-C-O	-5.97	114.22	120.55
4	D	37	TRP	N-CA-C	5.97	118.63	108.90
4	D	161	VAL	CA-CB-CG2	5.97	120.55	110.40
4	D	204	MET	O-C-N	5.97	128.45	122.12
5	N	67	ASP	N-CA-C	5.97	117.79	111.28
6	P	57	THR	N-CA-C	5.97	123.52	110.80
6	U	560	PRO	N-CA-CB	5.97	109.52	103.25
6	X	292	ARG	NE-CZ-NH2	5.97	124.57	119.20
6	X	333	PRO	N-CD-CG	5.97	112.15	103.20
1	A	87	PHE	CB-CG-CD2	-5.97	110.55	120.70
6	O	317	ARG	NH1-CZ-NH2	-5.97	111.54	119.30
5	R	165	PHE	CA-CB-CG	5.97	119.77	113.80
6	V	545	VAL	O-C-N	5.97	130.00	121.82
6	W	140	VAL	O-C-N	-5.97	115.51	121.96
5	Y	15	ARG	O-C-N	5.97	129.61	122.27
1	A	206	TYR	CB-CG-CD2	-5.97	111.85	120.80
6	I	144	ASN	CA-C-N	5.97	129.08	120.79
6	I	144	ASN	C-N-CA	5.97	129.08	120.79
6	O	333	PRO	N-CD-CG	5.97	112.15	103.20
6	P	125	ASP	CA-CB-CG	5.97	118.57	112.60
6	U	279	PRO	N-CA-C	5.97	124.76	112.47
1	A	51	PRO	N-CA-CB	5.96	109.51	103.25
2	B	862	GLU	CA-C-O	5.96	126.87	120.55
5	H	87	ASP	CA-CB-CG	5.96	118.56	112.60
6	K	285	PHE	CB-CG-CD1	-5.96	110.56	120.70
6	K	585	GLN	CG-CD-NE2	-5.96	107.45	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	L	242	PHE	O-C-N	5.96	130.29	123.31
6	V	564	LEU	CA-C-N	5.96	129.38	120.31
6	V	564	LEU	C-N-CA	5.96	129.38	120.31
6	W	396	VAL	CA-CB-CG1	5.96	120.54	110.40
5	Y	166	LYS	CA-CB-CG	5.96	126.03	114.10
2	B	1053	GLN	N-CA-C	5.96	121.21	111.37
6	K	255	SER	O-C-N	5.96	128.44	122.12
5	N	163	GLY	O-C-N	5.96	130.45	122.70
5	N	171	HIS	CA-C-O	-5.96	111.99	120.16
6	U	31	ALA	O-C-N	5.96	127.18	120.68
1	A	496	PHE	CA-CB-CG	5.96	119.76	113.80
2	B	886	ASP	CA-C-O	5.96	126.71	119.38
3	C	518	LEU	N-CA-C	5.96	119.74	112.23
3	C	1143	ASN	OD1-CG-ND2	-5.96	116.64	122.60
4	E	125	TYR	CA-C-N	5.96	125.44	119.24
4	E	125	TYR	C-N-CA	5.96	125.44	119.24
4	E	412	VAL	CA-CB-CG1	5.96	120.53	110.40
6	O	467	THR	CA-CB-OG1	5.96	118.54	109.60
6	U	161	LYS	CG-CD-CE	5.96	125.01	111.30
1	A	667	ALA	CA-C-N	5.96	129.75	120.75
1	A	667	ALA	C-N-CA	5.96	129.75	120.75
6	O	569	ALA	CA-C-O	-5.96	114.10	120.42
6	P	67	ARG	N-CA-C	5.96	123.50	110.80
6	P	596	MET	N-CA-C	5.96	118.56	111.71
6	V	598	SER	CB-CA-C	5.96	120.24	110.88
6	W	92	TRP	N-CA-C	5.96	119.86	112.59
3	C	1045	TRP	N-CA-C	5.96	119.23	109.76
5	G	23	THR	N-CA-C	5.96	119.42	108.58
6	K	363	ASN	CA-CB-CG	5.96	118.56	112.60
5	N	165	PHE	N-CA-C	5.96	123.49	110.80
6	O	368	THR	CA-CB-OG1	5.96	118.54	109.60
6	P	79	ARG	O-C-N	5.96	128.29	122.09
5	R	214	ARG	NH1-CZ-NH2	-5.96	111.55	119.30
5	S	118	THR	CA-C-N	5.96	132.70	121.97
5	S	118	THR	C-N-CA	5.96	132.70	121.97
6	U	70	GLN	CG-CD-NE2	-5.96	107.46	116.40
6	V	484	ILE	N-CA-CB	5.96	119.41	111.90
6	W	474	THR	CA-C-N	5.96	129.29	120.95
6	W	474	THR	C-N-CA	5.96	129.29	120.95
1	A	905	ALA	CA-C-O	5.96	126.86	120.55
1	A	1009	ASN	CA-CB-CG	5.96	118.56	112.60
2	B	230	GLN	CB-CG-CD	5.96	122.72	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	1196	ARG	N-CA-C	5.96	119.11	109.40
3	C	515	LEU	N-CA-C	5.96	118.54	111.33
5	F	118	THR	CA-C-N	5.96	132.69	121.97
5	F	118	THR	C-N-CA	5.96	132.69	121.97
5	H	137	ASP	N-CA-CB	5.96	118.51	110.59
6	O	639	ASP	CA-CB-CG	5.96	118.56	112.60
6	V	481	VAL	CB-CA-C	5.96	119.99	110.82
2	B	495	ASN	O-C-N	5.96	128.28	122.09
3	C	410	HIS	CE1-NE2-CD2	-5.96	103.05	109.00
5	H	246	THR	O-C-N	5.96	130.88	123.14
6	I	537	SER	CA-C-N	5.96	128.18	120.44
6	I	537	SER	C-N-CA	5.96	128.18	120.44
1	A	146	SER	CA-C-N	5.95	125.83	119.28
1	A	146	SER	C-N-CA	5.95	125.83	119.28
2	B	469	ALA	N-CA-C	5.95	117.77	111.28
4	E	258	PRO	N-CA-CB	5.95	108.85	103.08
5	G	50	ALA	N-CA-C	5.95	118.56	111.71
5	G	134	ASP	CA-CB-CG	5.95	118.55	112.60
6	J	29	THR	CA-CB-OG1	5.95	118.53	109.60
6	Q	346	ASP	CA-C-N	5.95	132.82	122.82
6	Q	346	ASP	C-N-CA	5.95	132.82	122.82
6	Q	397	VAL	O-C-N	5.95	130.26	121.99
6	V	57	THR	N-CA-C	5.95	123.48	110.80
6	X	67	ARG	N-CA-C	5.95	123.48	110.80
5	S	165	PHE	N-CA-C	5.95	123.48	110.80
1	A	632	PHE	CA-CB-CG	5.95	119.75	113.80
5	L	246	THR	O-C-N	5.95	130.97	123.12
6	O	644	LEU	CD1-CG-CD2	5.95	123.89	110.80
6	Q	92	TRP	N-CA-C	5.95	119.85	112.59
5	T	90	GLN	CB-CG-CD	5.95	122.72	112.60
2	B	661	THR	O-C-N	-5.95	115.67	122.09
6	I	57	THR	N-CA-C	5.95	123.47	110.80
6	K	350	THR	CA-CB-OG1	5.95	118.52	109.60
6	V	246	THR	CA-CB-OG1	5.95	118.52	109.60
6	V	457	PRO	CA-CB-CG	-5.95	93.20	104.50
3	C	851	PHE	N-CA-C	5.95	117.84	111.36
6	U	390	ASN	N-CA-C	5.95	118.53	111.33
6	V	365	ASP	O-C-N	5.95	129.98	121.95
6	W	533	ASP	CB-CG-OD1	5.95	132.08	118.40
4	D	294	THR	N-CA-C	5.95	119.17	109.24
6	I	24	SER	O-C-N	5.95	128.98	122.20
6	P	60	SER	CA-C-O	-5.95	113.72	120.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	R	15	ARG	O-C-N	5.95	129.58	122.27
6	V	547	HIS	CA-C-N	-5.95	113.25	122.05
6	V	547	HIS	C-N-CA	-5.95	113.25	122.05
3	C	525	TYR	N-CA-C	5.94	119.36	111.75
2	B	347	ARG	O-C-N	5.94	130.06	122.33
4	E	161	VAL	CA-C-O	-5.94	114.87	119.98
6	J	282	VAL	N-CA-C	5.94	121.70	109.34
6	Q	383	GLN	N-CA-C	5.94	119.79	112.54
5	T	161	LEU	CA-C-N	5.94	132.38	123.23
5	T	161	LEU	C-N-CA	5.94	132.38	123.23
6	U	82	PHE	CA-C-N	5.94	128.24	120.28
6	U	82	PHE	C-N-CA	5.94	128.24	120.28
6	U	394	ILE	N-CA-CB	5.94	118.73	111.60
6	U	625	ARG	NE-CZ-NH2	5.94	124.55	119.20
6	W	285	PHE	CB-CG-CD1	-5.94	110.60	120.70
1	A	283	THR	CA-C-O	-5.94	114.58	120.82
3	C	665	SER	N-CA-C	5.94	117.30	107.73
4	E	20	LEU	CD1-CG-CD2	-5.94	97.73	110.80
6	I	590	VAL	N-CA-C	5.94	120.37	113.42
6	Q	465	THR	CA-CB-OG1	5.94	118.51	109.60
4	E	55	SER	N-CA-C	-5.94	99.98	109.96
5	L	36	ASP	N-CA-CB	-5.94	102.55	110.57
6	P	515	ASN	OD1-CG-ND2	-5.94	116.66	122.60
3	C	247	THR	CA-CB-OG1	5.94	118.51	109.60
4	D	237	ALA	N-CA-CB	-5.94	100.57	109.71
6	I	397	VAL	O-C-N	5.94	130.24	121.99
6	O	557	PRO	CB-CA-C	5.94	121.46	112.97
6	Q	278	THR	CA-C-N	5.94	127.26	119.84
6	Q	278	THR	C-N-CA	5.94	127.26	119.84
2	B	423	CYS	N-CA-C	5.94	117.75	111.28
6	P	345	ILE	CA-CB-CG1	5.94	120.49	110.40
6	U	469	VAL	N-CA-CB	5.94	117.89	110.47
2	B	189	ASN	CA-CB-CG	5.93	118.53	112.60
4	D	403	ALA	N-CA-C	5.93	121.16	111.37
6	K	264	SER	O-C-N	5.93	129.16	122.22
6	K	474	THR	CA-C-N	5.93	129.26	120.95
6	K	474	THR	C-N-CA	5.93	129.26	120.95
6	P	42	ASN	CA-CB-CG	5.93	118.53	112.60
6	Q	165	THR	O-C-N	5.93	128.18	122.07
5	S	242	PHE	O-C-N	5.93	130.25	123.31
6	X	639	ASP	N-CA-C	5.93	118.23	111.11
6	V	194	LEU	O-C-N	5.93	127.41	121.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	W	515	ASN	OD1-CG-ND2	-5.93	116.67	122.60
6	X	428	ARG	NE-CZ-NH1	-5.93	115.57	121.50
1	A	183	TYR	CE1-CZ-CE2	-5.93	108.44	120.30
5	H	113	PRO	N-CA-C	5.93	119.75	110.80
6	I	285	PHE	CB-CG-CD1	-5.93	110.62	120.70
6	O	57	THR	N-CA-C	5.93	123.43	110.80
6	W	185	SER	N-CA-C	5.93	118.23	111.11
1	A	1249	HIS	ND1-CE1-NE2	5.93	114.33	108.40
3	C	881	VAL	CA-C-O	-5.93	112.00	119.95
5	H	67	ASP	N-CA-C	5.93	117.74	111.28
5	M	198	HIS	CG-ND1-CE1	-5.93	99.22	109.30
6	P	333	PRO	N-CD-CG	5.93	112.09	103.20
6	U	613	LEU	N-CA-C	5.93	123.43	110.80
6	V	519	ASN	O-C-N	5.93	128.18	122.07
1	A	1049	ALA	O-C-N	-5.93	115.52	123.23
4	E	24	ASN	OD1-CG-ND2	-5.93	116.67	122.60
6	K	160	GLN	CB-CA-C	5.93	120.30	110.81
6	K	586	VAL	N-CA-CB	-5.93	101.45	111.23
6	Q	434	ILE	N-CA-C	5.93	121.68	108.88
1	A	995	CYS	CA-C-N	5.93	128.50	120.38
1	A	995	CYS	C-N-CA	5.93	128.50	120.38
4	D	158	HIS	CB-CG-CD2	-5.93	123.50	131.20
5	F	92	ALA	N-CA-CB	-5.93	101.33	110.04
6	I	639	ASP	CA-CB-CG	5.93	118.53	112.60
6	J	333	PRO	N-CD-CG	5.93	112.09	103.20
5	L	59	HIS	CA-CB-CG	5.93	119.73	113.80
5	L	97	ARG	NE-CZ-NH1	-5.93	115.57	121.50
6	W	154	ARG	CG-CD-NE	5.93	125.04	112.00
5	Y	59	HIS	N-CA-CB	5.93	118.83	110.12
2	B	487	VAL	O-C-N	5.92	128.78	123.03
5	H	273	GLU	N-CA-C	5.92	117.53	110.07
6	K	511	SER	N-CA-CB	5.92	118.95	110.06
6	O	271	LEU	N-CA-C	5.92	123.42	110.80
6	V	179	ALA	CA-C-O	-5.92	114.42	121.11
2	B	1081	TYR	CA-CB-CG	5.92	124.56	113.90
3	C	122	CYS	N-CA-C	5.92	123.42	110.80
5	T	220	ASP	N-CA-C	5.92	119.33	111.75
6	V	67	ARG	N-CA-C	5.92	123.42	110.80
1	A	348	GLN	CB-CG-CD	5.92	122.67	112.60
1	A	513	SER	CB-CA-C	5.92	120.30	111.89
3	C	242	ARG	NH1-CZ-NH2	-5.92	111.60	119.30
4	D	66	ILE	N-CA-C	5.92	116.10	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	33	ALA	CA-C-N	-5.92	113.92	122.45
6	J	33	ALA	C-N-CA	-5.92	113.92	122.45
6	K	519	ASN	O-C-N	5.92	128.17	122.07
6	O	467	THR	CA-C-O	-5.92	112.05	120.16
6	U	179	ALA	CA-C-O	-5.92	114.42	121.11
1	A	457	LEU	N-CA-C	5.92	117.67	109.15
3	C	1198	ASN	OD1-CG-ND2	5.92	128.52	122.60
5	H	15	ARG	O-C-N	5.92	129.55	122.27
6	I	92	TRP	N-CA-C	5.92	119.81	112.59
6	K	333	PRO	N-CD-CG	5.92	112.08	103.20
6	O	590	VAL	N-CA-C	5.92	120.35	113.42
6	P	317	ARG	NH1-CZ-NH2	-5.92	111.60	119.30
5	S	76	ASN	CA-CB-CG	5.92	118.52	112.60
6	W	279	PRO	N-CA-C	5.92	124.67	112.47
2	B	1067	VAL	CA-CB-CG2	5.92	120.46	110.40
3	C	733	MET	N-CA-C	5.92	117.42	110.97
4	E	109	PRO	N-CD-CG	5.92	112.08	103.20
6	K	345	ILE	CA-CB-CG1	5.92	120.46	110.40
6	P	577	VAL	CA-CB-CG1	5.92	120.46	110.40
6	Q	539	ILE	N-CA-C	5.92	118.49	111.09
5	T	239	GLY	O-C-N	5.92	127.69	121.77
6	W	517	LEU	N-CA-CB	-5.92	101.43	110.01
6	J	350	THR	CA-CB-OG1	5.92	118.47	109.60
6	K	575	MET	N-CA-C	5.92	118.21	111.11
6	P	321	THR	N-CA-C	5.92	121.16	113.88
6	Q	245	ALA	N-CA-C	5.92	118.94	110.24
6	Q	504	ASN	N-CA-CB	-5.92	100.49	110.49
6	U	447	SER	N-CA-C	5.92	120.15	109.44
6	V	515	ASN	OD1-CG-ND2	-5.92	116.68	122.60
6	W	248	GLU	CA-CB-CG	5.92	125.93	114.10
6	X	557	PRO	CB-CA-C	5.92	121.43	112.97
3	C	226	MET	N-CA-C	5.92	120.01	113.21
3	C	768	GLN	N-CA-C	5.92	118.40	109.23
6	O	103	CYS	N-CA-C	5.92	123.40	110.80
1	A	946	LEU	O-C-N	5.91	130.46	122.59
2	B	377	ILE	CA-CB-CG1	-5.91	100.35	110.40
2	B	1063	VAL	CB-CA-C	5.91	119.67	111.92
4	D	281	VAL	N-CA-C	5.91	116.65	110.62
6	I	179	ALA	CA-C-O	-5.91	114.43	121.11
6	O	365	ASP	O-C-N	5.91	129.93	121.95
6	P	84	LYS	O-C-N	5.91	128.39	122.12
6	X	566	TRP	CZ3-CH2-CZ2	-5.91	113.81	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	474	THR	CA-C-N	5.91	129.23	120.95
6	J	474	THR	C-N-CA	5.91	129.23	120.95
5	S	253	CYS	N-CA-C	5.91	117.39	111.07
4	E	391	ALA	O-C-N	-5.91	115.86	122.12
6	J	12	ASN	CA-CB-CG	5.91	118.51	112.60
5	N	23	THR	N-CA-C	5.91	119.34	108.58
6	O	285	PHE	CB-CG-CD1	-5.91	110.65	120.70
6	Q	57	THR	N-CA-C	5.91	123.39	110.80
6	Q	154	ARG	CG-CD-NE	5.91	125.00	112.00
6	Q	271	LEU	N-CA-C	5.91	123.39	110.80
6	U	599	ALA	N-CA-C	5.91	117.72	111.28
6	V	24	SER	O-C-N	5.91	129.13	122.22
1	A	869	PRO	CA-N-CD	-5.91	103.73	112.00
1	A	896	ILE	O-C-N	5.91	129.46	123.20
2	B	669	PHE	N-CA-C	5.91	120.33	113.18
6	J	168	THR	CA-CB-CG2	5.91	120.55	110.50
6	K	645	TRP	O-C-N	5.91	125.37	121.23
5	N	92	ALA	N-CA-CB	-5.91	101.35	110.04
6	V	201	LEU	N-CA-C	5.91	120.22	112.89
6	V	434	ILE	N-CA-C	5.91	121.64	108.88
6	W	201	LEU	N-CA-C	5.91	120.22	112.89
6	W	566	TRP	CZ3-CH2-CZ2	-5.91	113.82	121.50
6	U	571	ARG	N-CA-C	5.91	121.12	111.37
6	V	155	ASP	N-CA-C	5.91	119.67	112.23
1	A	997	TRP	CG-CD2-CE3	-5.91	128.00	133.90
4	E	157	TYR	CA-CB-CG	5.91	124.53	113.90
5	F	251	SER	N-CA-C	5.91	118.53	108.67
6	I	200	CYS	N-CA-C	5.91	117.72	111.28
5	L	104	LEU	N-CA-C	5.91	119.34	107.41
6	O	599	ALA	N-CA-C	5.91	117.72	111.28
6	Q	282	VAL	CA-CB-CG1	5.91	120.44	110.40
5	T	106	VAL	N-CA-C	5.91	121.62	109.34
6	V	599	ALA	N-CA-C	5.91	117.72	111.28
1	A	241	LEU	CA-C-O	-5.90	114.93	119.71
1	A	499	SER	N-CA-C	5.90	119.58	112.38
1	A	943	LEU	CB-CA-C	5.90	116.79	110.65
3	C	495	ASN	OD1-CG-ND2	-5.90	116.70	122.60
4	E	358	ASP	CA-CB-CG	5.90	118.50	112.60
6	P	382	ILE	CA-CB-CG2	5.90	120.54	110.50
6	U	93	GLN	N-CA-C	5.90	120.92	113.25
2	B	974	LEU	CA-C-O	5.90	126.64	119.38
2	B	1006	ARG	NE-CZ-NH1	-5.90	115.60	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	E	43	HIS	CG-ND1-CE1	-5.90	99.26	109.30
6	I	426	PHE	CA-CB-CG	5.90	119.70	113.80
6	K	639	ASP	CA-CB-CG	5.90	118.50	112.60
6	Q	253	VAL	N-CA-C	5.90	117.35	110.62
5	S	36	ASP	N-CA-CB	-5.90	102.60	110.57
6	U	90	ASN	CA-CB-CG	5.90	118.50	112.60
6	V	560	PRO	N-CA-CB	5.90	109.45	103.25
6	W	200	CYS	N-CA-C	5.90	117.72	111.28
1	A	183	TYR	CD1-CE1-CZ	5.90	130.22	119.60
4	D	56	ALA	CA-C-O	-5.90	114.30	120.55
6	I	545	VAL	O-C-N	5.90	129.63	121.84
6	J	511	SER	N-CA-CB	5.90	118.91	110.06
5	L	273	GLU	N-CA-C	5.90	117.50	110.07
5	N	198	HIS	CG-ND1-CE1	-5.90	99.27	109.30
6	W	284	VAL	CB-CA-C	5.90	119.75	112.02
6	X	57	THR	N-CA-C	5.90	123.37	110.80
4	E	161	VAL	CA-C-N	5.90	127.21	119.84
4	E	161	VAL	C-N-CA	5.90	127.21	119.84
6	J	303	ASP	CA-C-O	5.90	126.50	119.60
5	N	166	LYS	CA-CB-CG	5.90	125.90	114.10
6	O	377	GLN	OE1-CD-NE2	-5.90	116.70	122.60
6	V	93	GLN	N-CA-C	5.90	120.92	113.25
2	B	392	ASP	N-CA-C	5.90	118.07	108.63
2	B	994	SER	O-C-N	-5.90	116.18	121.31
5	G	222	LEU	N-CA-C	5.90	120.47	113.28
6	J	533	ASP	CB-CA-C	5.90	119.92	109.72
6	Q	517	LEU	N-CA-CB	-5.90	101.46	110.01
6	Q	545	VAL	O-C-N	5.90	129.90	121.82
5	R	222	LEU	O-C-N	5.90	130.78	122.41
6	X	245	ALA	N-CA-C	5.90	118.91	110.24
6	X	577	VAL	CA-CB-CG1	5.90	120.42	110.40
5	Y	134	ASP	CA-CB-CG	5.90	118.50	112.60
2	B	322	THR	CA-C-O	-5.90	114.86	121.05
6	I	428	ARG	NE-CZ-NH1	-5.90	115.60	121.50
6	O	447	SER	N-CA-C	5.90	120.11	109.44
6	W	67	ARG	N-CA-C	5.90	123.36	110.80
1	A	72	HIS	CB-CG-CD2	-5.89	123.54	131.20
2	B	526	ALA	CA-C-O	-5.89	114.32	120.92
6	I	329	VAL	CA-C-O	5.89	127.16	119.85
6	K	278	THR	CA-C-N	5.89	127.21	119.84
6	K	278	THR	C-N-CA	5.89	127.21	119.84
6	K	317	ARG	NH1-CZ-NH2	-5.89	111.64	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	M	59	HIS	CA-CB-CG	5.89	119.69	113.80
6	Q	133	ASN	N-CA-C	5.89	119.48	111.17
6	U	489	VAL	CA-C-N	5.89	129.21	120.90
6	U	489	VAL	C-N-CA	5.89	129.21	120.90
6	V	345	ILE	CA-CB-CG1	5.89	120.42	110.40
6	W	248	GLU	N-CA-C	5.89	121.35	114.04
6	X	243	ASN	OD1-CG-ND2	-5.89	116.70	122.60
4	E	194	GLY	O-C-N	5.89	128.70	122.28
6	P	90	ASN	CA-CB-CG	5.89	118.49	112.60
6	Q	194	LEU	O-C-N	5.89	127.37	121.30
6	Q	264	SER	O-C-N	5.89	129.11	122.22
5	S	147	HIS	ND1-CE1-NE2	5.89	114.29	108.40
6	W	124	GLY	O-C-N	5.89	130.36	122.70
6	W	539	ILE	N-CA-C	5.89	118.45	111.09
1	A	527	ASN	N-CA-C	5.89	123.35	110.80
6	K	92	TRP	N-CA-C	5.89	119.78	112.59
5	R	200	THR	N-CA-C	5.89	119.30	108.58
1	A	220	LEU	CD1-CG-CD2	5.89	123.76	110.80
2	B	382	SER	CA-CB-OG	5.89	122.88	111.10
4	E	123	ASN	CA-C-O	5.89	126.99	120.63
4	E	247	VAL	N-CA-C	5.89	116.36	108.11
5	G	92	ALA	N-CA-CB	-5.89	101.38	110.04
6	I	356	THR	O-C-N	5.89	130.42	122.59
6	O	566	TRP	CZ3-CH2-CZ2	-5.89	113.84	121.50
6	P	447	SER	O-C-N	5.89	126.66	121.18
6	Q	516	LYS	CA-C-O	-5.89	114.31	120.55
5	L	90	GLN	CB-CG-CD	5.89	122.61	112.60
1	A	362	GLU	N-CA-CB	5.89	118.84	110.13
2	B	499	THR	CA-C-N	-5.89	115.51	122.93
2	B	499	THR	C-N-CA	-5.89	115.51	122.93
3	C	614	GLN	CB-CG-CD	5.89	122.61	112.60
3	C	902	MET	CA-C-O	5.89	126.79	120.55
4	E	78	PRO	N-CA-CB	5.89	109.43	103.25
6	I	583	ALA	N-CA-C	5.89	118.48	111.71
5	S	112	ALA	CA-C-O	-5.89	113.42	120.54
6	W	330	GLN	CA-C-N	5.89	132.78	121.54
6	W	330	GLN	C-N-CA	5.89	132.78	121.54
1	A	807	VAL	N-CA-C	5.88	121.58	109.34
2	B	924	ALA	N-CA-C	5.88	118.65	111.82
2	B	1178	ARG	CA-C-N	5.88	132.56	121.97
2	B	1178	ARG	C-N-CA	5.88	132.56	121.97
3	C	238	GLY	O-C-N	5.88	129.83	123.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	F	189	CYS	N-CA-C	5.88	117.11	109.64
5	G	170	GLU	N-CA-C	5.88	118.83	109.24
6	K	67	ARG	N-CA-C	5.88	123.33	110.80
5	M	35	PHE	N-CA-C	5.88	123.33	110.80
6	P	397	VAL	O-C-N	5.88	130.17	121.99
6	I	330	GLN	N-CA-CB	-5.88	103.36	112.30
6	K	634	LYS	O-C-N	5.88	128.13	122.07
6	O	346	ASP	CA-C-N	5.88	132.70	122.82
6	O	346	ASP	C-N-CA	5.88	132.70	122.82
6	O	347	SER	CB-CA-C	-5.88	98.65	110.30
3	C	513	GLU	CA-C-N	5.88	127.97	120.56
3	C	513	GLU	C-N-CA	5.88	127.97	120.56
3	C	800	ILE	O-C-N	5.88	129.92	122.57
6	O	465	THR	CA-CB-OG1	5.88	118.42	109.60
6	Q	421	HIS	CE1-NE2-CD2	-5.88	103.12	109.00
1	A	758	THR	CB-CA-C	5.88	119.07	109.90
5	F	106	VAL	N-CA-C	5.88	121.57	109.34
6	Q	67	ARG	N-CA-C	5.88	123.32	110.80
6	Q	538	ALA	O-C-N	5.88	128.13	122.07
6	V	330	GLN	CA-C-N	5.88	132.77	121.54
6	V	330	GLN	C-N-CA	5.88	132.77	121.54
6	V	575	MET	N-CA-C	5.88	118.17	111.11
1	A	428	THR	O-C-N	5.88	130.41	122.59
1	A	1097	LEU	O-C-N	5.88	130.16	122.93
3	C	955	SER	CB-CA-C	5.88	120.47	111.95
5	H	251	SER	N-CA-C	5.88	118.49	108.67
6	K	504	ASN	N-CA-CB	-5.88	100.56	110.49
6	O	111	PHE	CA-CB-CG	5.88	119.68	113.80
5	T	211	ALA	N-CA-C	5.88	118.16	111.11
6	U	577	VAL	CA-CB-CG1	5.88	120.39	110.40
6	V	196	LEU	N-CA-C	5.88	118.44	111.33
6	W	70	GLN	CG-CD-NE2	-5.88	107.58	116.40
6	W	397	VAL	O-C-N	5.88	130.16	121.99
5	Y	171	HIS	CA-C-O	-5.88	112.11	120.16
1	A	81	TYR	N-CA-CB	5.88	118.53	110.01
2	B	400	GLU	N-CA-C	5.88	118.19	111.02
5	L	65	ILE	N-CA-C	5.88	116.66	110.72
6	P	24	SER	O-C-N	5.88	129.09	122.22
5	S	66	GLN	N-CA-C	5.88	117.69	111.28
6	U	607	ALA	N-CA-C	5.88	118.47	111.71
6	X	390	ASN	CA-CB-CG	5.88	118.48	112.60
6	I	316	ILE	O-C-N	5.88	130.84	122.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	U	171	THR	O-C-N	5.88	128.08	121.32
1	A	830	HIS	ND1-CE1-NE2	5.87	114.27	108.40
2	B	648	ALA	N-CA-C	5.87	118.92	111.69
4	E	91	THR	CA-CB-OG1	5.87	118.41	109.60
5	G	124	ASP	N-CA-C	5.87	123.31	110.80
5	H	118	THR	CA-C-N	5.87	132.54	121.97
5	H	118	THR	C-N-CA	5.87	132.54	121.97
6	O	161	LYS	CG-CD-CE	5.87	124.81	111.30
6	U	33	ALA	CA-C-O	5.87	127.57	120.99
6	U	346	ASP	CA-C-N	5.87	132.69	122.82
6	U	346	ASP	C-N-CA	5.87	132.69	122.82
6	V	396	VAL	CA-CB-CG1	5.87	120.39	110.40
1	A	452	TYR	CA-C-N	5.87	126.43	120.38
1	A	452	TYR	C-N-CA	5.87	126.43	120.38
2	B	254	ASP	CA-CB-CG	5.87	118.47	112.60
5	S	106	VAL	N-CA-C	5.87	121.55	109.34
6	X	115	THR	O-C-N	-5.87	116.31	123.30
6	X	167	MET	CA-C-O	5.87	126.59	119.49
1	A	818	PHE	CA-C-N	5.87	128.17	120.60
1	A	818	PHE	C-N-CA	5.87	128.17	120.60
4	E	117	ASN	OD1-CG-ND2	-5.87	116.73	122.60
6	O	191	LYS	N-CA-C	5.87	120.28	113.18
6	V	619	ASP	CA-CB-CG	5.87	118.47	112.60
5	Y	90	GLN	CB-CG-CD	5.87	122.58	112.60
1	A	267	MET	N-CA-C	5.87	117.68	111.28
3	C	1144	ASP	N-CA-CB	5.87	119.38	110.28
4	E	215	TRP	CD2-CE2-CZ2	-5.87	116.53	122.40
6	J	122	THR	CA-CB-OG1	5.87	118.40	109.60
6	K	144	ASN	CA-C-N	5.87	128.95	120.79
6	K	144	ASN	C-N-CA	5.87	128.95	120.79
5	L	23	THR	N-CA-C	5.87	119.26	108.58
5	L	198	HIS	CG-ND1-CE1	-5.87	99.32	109.30
5	R	3	LEU	N-CA-CB	-5.87	100.71	109.69
6	V	152	ARG	O-C-N	5.87	128.12	122.07
3	C	112	VAL	N-CA-C	5.87	115.80	106.88
3	C	140	HIS	ND1-CE1-NE2	5.87	114.27	108.40
5	M	222	LEU	N-CA-C	5.87	120.44	113.28
6	O	194	LEU	O-C-N	5.87	127.34	121.30
6	O	411	VAL	CA-C-O	-5.87	114.95	121.05
5	R	61	ASN	N-CA-C	5.87	119.96	113.21
5	S	104	LEU	N-CA-C	5.87	119.26	107.41
5	S	161	LEU	CA-C-N	5.87	132.26	123.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	S	161	LEU	C-N-CA	5.87	132.26	123.23
2	B	991	GLY	CA-C-O	-5.87	115.98	122.14
5	H	45	ARG	NE-CZ-NH1	-5.87	115.64	121.50
6	I	269	LYS	CA-C-N	5.87	130.70	122.08
6	I	269	LYS	C-N-CA	5.87	130.70	122.08
2	B	529	TRP	N-CA-C	5.86	118.15	111.11
3	C	100	VAL	CB-CA-C	5.86	119.15	111.53
6	O	168	THR	CA-CB-OG1	5.86	118.39	109.60
6	W	607	ALA	N-CA-C	5.86	118.45	111.71
1	A	1154	ARG	N-CA-C	5.86	123.29	110.80
3	C	337	PRO	N-CD-CG	5.86	111.99	103.20
4	D	327	ASP	CA-C-O	-5.86	114.03	120.36
5	F	15	ARG	NE-CZ-NH2	5.86	124.47	119.20
5	H	23	THR	N-CA-C	5.86	119.25	108.58
6	J	368	THR	CA-CB-OG1	5.86	118.39	109.60
6	P	634	LYS	O-C-N	5.86	128.11	122.07
1	A	805	VAL	CA-CB-CG1	5.86	120.36	110.40
2	B	405	LEU	N-CA-C	5.86	117.47	111.14
2	B	570	THR	CA-CB-OG1	5.86	118.39	109.60
4	D	222	ARG	O-C-N	5.86	128.33	122.12
4	E	144	ILE	CA-CB-CG1	5.86	120.36	110.40
5	F	171	HIS	CA-C-O	-5.86	112.13	120.16
5	H	104	LEU	N-CA-C	5.86	119.25	107.41
6	K	271	LEU	N-CA-C	5.86	123.28	110.80
6	P	346	ASP	CA-C-N	5.86	132.67	122.82
6	P	346	ASP	C-N-CA	5.86	132.67	122.82
6	P	548	LYS	CA-CB-CG	-5.86	102.38	114.10
1	A	1104	LEU	CA-C-O	-5.86	114.08	120.17
6	I	262	ALA	N-CA-C	5.86	117.34	111.07
6	K	545	VAL	O-C-N	5.86	129.85	121.82
5	S	5	MET	CG-SD-CE	-5.86	88.01	100.90
5	N	200	THR	N-CA-C	5.86	119.24	108.58
6	P	36	LEU	N-CA-C	5.86	118.38	110.88
5	R	26	THR	CA-CB-CG2	5.86	120.46	110.50
5	T	36	ASP	N-CA-CB	-5.86	102.66	110.57
6	V	282	VAL	N-CA-C	5.86	121.52	109.34
1	A	467	ARG	CG-CD-NE	-5.86	99.12	112.00
1	A	523	SER	N-CA-C	5.86	121.45	113.37
6	I	363	ASN	CA-CB-CG	5.86	118.45	112.60
6	I	484	ILE	N-CA-CB	5.86	119.28	111.90
6	Q	262	ALA	N-CA-C	5.86	117.33	111.07
6	X	465	THR	CA-CB-OG1	5.86	118.38	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	Y	203	HIS	ND1-CE1-NE2	5.86	114.26	108.40
5	F	116	ASP	CA-CB-CG	5.85	118.45	112.60
6	X	505	ASP	N-CA-C	5.85	118.44	108.90
1	A	34	LEU	O-C-N	5.85	129.07	122.22
1	A	338	ALA	N-CA-C	5.85	117.66	111.28
2	B	200	LEU	N-CA-C	5.85	119.01	108.48
2	B	975	PHE	CA-CB-CG	5.85	119.65	113.80
2	B	1178	ARG	N-CA-C	5.85	118.70	108.52
3	C	480	LEU	N-CA-CB	5.85	118.84	110.06
6	I	159	TRP	CB-CA-C	5.85	120.15	110.90
6	K	396	VAL	CA-CB-CG1	5.85	120.35	110.40
5	N	273	GLU	N-CA-C	5.85	117.44	110.07
6	O	210	VAL	N-CA-CB	5.85	117.00	110.62
5	T	222	LEU	N-CA-C	5.85	120.42	113.28
5	Y	3	LEU	N-CA-CB	-5.85	100.99	109.83
5	Y	165	PHE	CA-CB-CG	5.85	119.65	113.80
1	A	1046	GLN	OE1-CD-NE2	-5.85	116.75	122.60
2	B	852	THR	CA-C-O	5.85	126.58	119.38
6	V	90	ASN	CA-CB-CG	5.85	118.45	112.60
6	V	510	VAL	CA-C-O	-5.85	114.56	121.05
1	A	557	ASP	OD1-CG-OD2	5.85	136.94	122.90
3	C	1183	ASP	CA-CB-CG	5.85	118.45	112.60
4	D	404	VAL	N-CA-CB	5.85	117.39	110.55
6	P	123	ALA	CA-C-O	-5.85	114.37	120.92
5	S	219	HIS	ND1-CG-CD2	5.85	111.95	106.10
1	A	659	PHE	CA-C-N	5.85	126.21	122.18
1	A	659	PHE	C-N-CA	5.85	126.21	122.18
2	B	700	TRP	N-CA-C	5.85	118.60	111.82
2	B	1187	ARG	NE-CZ-NH2	5.85	124.46	119.20
3	C	483	VAL	N-CA-C	5.85	118.36	111.05
3	C	757	VAL	N-CA-CB	-5.85	102.59	110.54
4	D	103	VAL	N-CA-C	5.85	121.51	108.88
4	E	337	ARG	NE-CZ-NH2	5.85	124.46	119.20
5	H	32	THR	CA-CB-OG1	5.85	118.37	109.60
6	K	356	THR	O-C-N	5.85	130.37	122.59
6	O	70	GLN	CG-CD-NE2	-5.85	107.63	116.40
5	T	124	ASP	N-CA-C	5.85	123.26	110.80
5	T	247	PHE	CA-C-N	5.85	131.94	122.29
5	T	247	PHE	C-N-CA	5.85	131.94	122.29
4	E	103	VAL	CA-CB-CG2	5.85	120.34	110.40
6	O	434	ILE	CA-C-O	-5.85	112.12	119.95
6	P	118	TYR	N-CA-C	5.85	119.78	109.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	510	VAL	O-C-N	5.85	127.98	121.90
6	W	147	ARG	CD-NE-CZ	-5.85	116.22	124.40
6	X	534	SER	N-CA-C	5.85	123.25	110.80
1	A	270	LEU	N-CA-C	5.84	123.25	110.80
5	N	15	ARG	O-C-N	5.84	129.46	122.27
6	P	255	SER	CA-C-O	-5.84	114.32	120.63
5	S	8	GLN	OE1-CD-NE2	5.84	128.44	122.60
6	V	533	ASP	CB-CA-C	5.84	119.83	109.72
1	A	245	GLY	CA-C-O	-5.84	115.87	121.19
2	B	1138	THR	N-CA-C	5.84	119.00	109.59
6	U	484	ILE	N-CA-CB	5.84	119.26	111.90
6	U	514	LEU	N-CA-C	5.84	119.23	111.75
1	A	89	HIS	CB-CG-CD2	-5.84	123.61	131.20
3	C	946	VAL	N-CA-C	5.84	115.14	106.85
4	E	131	ASN	N-CA-C	5.84	116.78	108.54
5	M	97	ARG	NE-CZ-NH1	-5.84	115.66	121.50
6	P	111	PHE	CA-CB-CG	5.84	119.64	113.80
6	P	168	THR	CA-CB-CG2	5.84	120.43	110.50
6	Q	111	PHE	CA-CB-CG	5.84	119.64	113.80
5	S	92	ALA	N-CA-CB	-5.84	101.45	110.04
1	A	24	PRO	O-C-N	5.84	129.98	122.91
1	A	1006	SER	CA-C-N	5.84	127.14	119.84
1	A	1006	SER	C-N-CA	5.84	127.14	119.84
2	B	464	SER	N-CA-C	5.84	123.24	110.80
5	G	186	LEU	N-CA-C	5.84	119.21	108.58
6	J	506	ALA	O-C-N	5.84	130.36	122.59
6	O	47	LEU	CA-C-O	5.84	127.14	120.54
6	O	474	THR	CA-C-N	5.84	129.12	120.95
6	O	474	THR	C-N-CA	5.84	129.12	120.95
6	P	532	ASP	CA-C-N	5.84	131.06	123.00
6	P	532	ASP	C-N-CA	5.84	131.06	123.00
6	U	305	LYS	N-CA-C	5.84	123.24	110.80
6	W	36	LEU	N-CA-C	5.84	118.35	110.88
6	W	639	ASP	CA-CB-CG	5.84	118.44	112.60
1	A	132	ASP	N-CA-C	5.84	118.39	111.33
6	U	557	PRO	CB-CA-C	5.84	121.32	112.97
1	A	739	VAL	O-C-N	5.84	130.80	122.04
2	B	828	GLU	CA-C-O	-5.84	114.54	121.66
3	C	700	TRP	N-CA-C	5.84	118.39	111.33
6	W	165	THR	CA-CB-CG2	5.84	120.42	110.50
2	B	651	PRO	CA-N-CD	-5.83	103.83	112.00
6	J	517	LEU	N-CA-CB	-5.83	101.55	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	U	285	PHE	CB-CG-CD1	-5.83	110.78	120.70
5	Y	23	THR	N-CA-C	5.83	119.20	108.58
1	A	558	VAL	CG1-CB-CG2	-5.83	97.97	110.80
2	B	968	PHE	CA-CB-CG	5.83	119.63	113.80
3	C	1134	HIS	CB-CG-CD2	-5.83	123.62	131.20
4	D	132	LEU	N-CA-C	5.83	118.39	111.33
6	K	541	SER	N-CA-CB	-5.83	101.55	110.12
5	S	219	HIS	CG-ND1-CE1	-5.83	99.38	109.30
5	T	198	HIS	CG-ND1-CE1	-5.83	99.38	109.30
5	Y	76	ASN	CA-CB-CG	5.83	118.43	112.60
5	Y	165	PHE	N-CA-C	5.83	123.22	110.80
1	A	1017	ILE	N-CA-C	5.83	121.47	109.34
4	E	222	ARG	NE-CZ-NH1	-5.83	115.67	121.50
5	F	256	ASP	CA-CB-CG	-5.83	106.77	112.60
6	J	193	ILE	CA-CB-CG2	5.83	120.41	110.50
6	K	599	ALA	N-CA-C	5.83	117.64	111.28
6	Q	447	SER	N-CA-C	5.83	119.99	109.44
5	S	50	ALA	N-CA-C	5.83	118.42	111.71
6	V	279	PRO	N-CA-C	5.83	124.48	112.47
6	W	465	THR	CA-CB-OG1	5.83	118.35	109.60
5	F	23	THR	N-CA-C	5.83	119.19	108.58
5	G	198	HIS	ND1-CG-CD2	5.83	111.93	106.10
5	L	145	ARG	N-CA-CB	-5.83	102.12	110.57
1	A	532	VAL	CA-CB-CG1	5.83	120.31	110.40
5	F	166	LYS	CA-CB-CG	5.83	125.76	114.10
5	H	272	VAL	CA-C-O	5.83	124.50	118.96
6	I	365	ASP	O-C-N	5.83	129.82	121.95
6	J	231	GLN	N-CA-C	5.83	120.67	113.50
6	K	465	THR	CA-CB-OG1	5.83	118.34	109.60
5	N	222	LEU	N-CA-C	5.83	120.39	113.28
6	Q	374	VAL	CA-C-O	-5.83	114.33	120.39
6	Q	394	ILE	N-CA-CB	5.83	118.31	111.66
5	R	106	VAL	N-CA-C	5.83	121.46	109.34
6	U	111	PHE	CA-CB-CG	5.83	119.63	113.80
3	C	220	ILE	N-CA-CB	5.83	118.30	111.66
6	Q	122	THR	CA-CB-OG1	5.83	118.34	109.60
6	U	590	VAL	N-CA-C	5.83	120.24	113.42
6	W	572	ALA	N-CA-C	5.83	118.58	111.82
1	A	3	ALA	CA-C-O	-5.83	115.06	121.58
2	B	920	LEU	CA-C-N	5.83	132.67	121.54
2	B	920	LEU	C-N-CA	5.83	132.67	121.54
2	B	1173	VAL	CA-C-O	5.83	127.94	121.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	G	66	GLN	CB-CG-CD	5.83	122.50	112.60
6	I	255	SER	CA-C-O	-5.83	114.34	120.63
5	M	87	ASP	CA-CB-CG	5.83	118.42	112.60
6	O	152	ARG	O-C-N	5.83	128.07	122.07
6	O	577	VAL	CA-CB-CG1	5.83	120.30	110.40
5	S	145	ARG	N-CA-CB	-5.83	102.12	110.57
6	U	168	THR	CA-CB-OG1	5.83	118.34	109.60
6	V	472	ARG	CG-CD-NE	5.83	124.82	112.00
6	V	506	ALA	O-C-N	5.83	130.34	122.59
6	X	118	TYR	N-CA-C	5.83	119.75	109.96
6	I	520	VAL	O-C-N	5.82	127.62	121.91
6	K	269	LYS	CA-C-N	5.82	130.64	122.08
6	K	269	LYS	C-N-CA	5.82	130.64	122.08
5	F	201	HIS	CE1-NE2-CD2	-5.82	103.18	109.00
6	K	16	ASP	O-C-N	5.82	130.50	123.16
6	K	579	ASN	OD1-CG-ND2	-5.82	116.78	122.60
5	Y	118	THR	CA-C-N	5.82	132.45	121.97
5	Y	118	THR	C-N-CA	5.82	132.45	121.97
2	B	660	SER	O-C-N	-5.82	117.39	123.56
2	B	1081	TYR	N-CA-CB	-5.82	102.50	111.46
4	E	87	HIS	CA-C-N	5.82	132.66	121.54
4	E	87	HIS	C-N-CA	5.82	132.66	121.54
4	E	276	HIS	ND1-CG-CD2	5.82	111.92	106.10
5	F	76	ASN	CA-CB-CG	5.82	118.42	112.60
6	K	506	ALA	O-C-N	5.82	130.33	122.59
5	M	273	GLU	N-CA-C	5.82	117.41	110.07
6	X	15	GLY	N-CA-C	5.82	121.72	112.06
1	A	939	GLU	N-CA-C	5.82	123.19	110.80
2	B	1114	PRO	O-C-N	5.82	130.50	122.64
3	C	552	ASP	N-CA-C	5.82	118.70	110.50
6	V	467	THR	CA-C-O	-5.82	112.19	120.16
5	Y	182	HIS	CB-CG-CD2	-5.82	123.64	131.20
2	B	404	MET	N-CA-C	5.82	118.57	111.82
4	D	319	GLY	O-C-N	5.82	130.26	122.70
6	J	244	ALA	N-CA-C	5.82	119.12	109.46
6	O	537	SER	CA-CB-OG	5.82	122.74	111.10
1	A	487	ALA	O-C-N	5.82	128.85	122.11
3	C	68	PRO	O-C-N	5.82	129.94	122.85
5	F	247	PHE	CA-C-N	5.82	131.89	122.29
5	F	247	PHE	C-N-CA	5.82	131.89	122.29
5	H	160	ILE	N-CA-CB	5.82	120.83	111.23
5	H	166	LYS	CA-CB-CG	5.82	125.73	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	I	244	ALA	N-CA-C	5.82	119.11	109.46
6	Q	396	VAL	CA-CB-CG1	5.82	120.28	110.40
6	W	194	LEU	O-C-N	5.82	127.29	121.30
4	E	43	HIS	ND1-CG-CD2	5.81	111.91	106.10
4	E	160	GLU	CG-CD-OE2	-5.81	105.03	118.40
6	J	472	ARG	O-C-N	5.81	130.62	122.77
5	M	199	ASP	N-CA-CB	5.81	120.31	110.49
4	D	235	GLU	N-CA-CB	5.81	119.90	110.42
5	H	92	ALA	N-CA-CB	-5.81	101.50	110.04
6	I	419	MET	N-CA-C	5.81	117.52	109.15
6	J	547	HIS	CA-C-N	-5.81	113.45	122.05
6	J	547	HIS	C-N-CA	-5.81	113.45	122.05
6	U	154	ARG	NE-CZ-NH2	5.81	124.43	119.20
6	U	321	THR	N-CA-C	5.81	121.03	113.88
6	W	395	THR	CA-C-O	5.81	126.68	120.46
6	X	426	PHE	CA-CB-CG	5.81	119.61	113.80
2	B	435	SER	CA-C-O	-5.81	114.32	121.06
6	I	245	ALA	N-CA-C	5.81	118.78	110.24
6	J	279	PRO	N-CA-C	5.81	124.44	112.47
5	N	247	PHE	CA-C-N	5.81	131.88	122.29
5	N	247	PHE	C-N-CA	5.81	131.88	122.29
1	A	731	ALA	N-CA-C	5.81	117.69	111.36
3	C	135	HIS	N-CA-C	5.81	117.29	111.07
3	C	905	VAL	O-C-N	5.81	129.83	122.57
4	E	344	ASP	N-CA-C	5.81	117.61	111.28
4	E	390	ASN	O-C-N	5.81	130.36	123.33
5	L	171	HIS	CE1-NE2-CD2	-5.81	103.19	109.00
5	N	118	THR	CA-C-N	5.81	132.43	121.97
5	N	118	THR	C-N-CA	5.81	132.43	121.97
6	Q	566	TRP	CZ3-CH2-CZ2	-5.81	113.95	121.50
5	T	170	GLU	N-CA-C	5.81	118.71	109.24
2	B	762	THR	CA-CB-OG1	5.81	118.31	109.60
3	C	184	ASP	N-CA-C	5.81	123.17	110.80
6	K	159	TRP	CB-CA-C	5.81	120.08	110.90
5	M	160	ILE	N-CA-CB	5.81	120.81	111.23
5	M	186	LEU	N-CA-C	5.81	119.15	108.58
6	P	262	ALA	N-CA-C	5.81	117.28	111.07
5	R	139	SER	CA-C-N	5.81	128.54	120.29
5	R	139	SER	C-N-CA	5.81	128.54	120.29
2	B	735	ALA	N-CA-C	5.81	118.39	111.71
3	C	135	HIS	CA-C-O	5.81	126.92	120.82
6	I	377	GLN	OE1-CD-NE2	-5.81	116.79	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	V	29	THR	CA-CB-OG1	5.81	118.31	109.60
3	C	1072	THR	OG1-CB-CG2	5.80	120.91	109.30
6	I	368	THR	CA-CB-OG1	5.80	118.31	109.60
6	J	92	TRP	N-CA-C	5.80	119.67	112.59
5	M	112	ALA	CA-C-O	-5.80	113.52	120.54
6	O	516	LYS	CA-C-O	-5.80	114.40	120.55
5	M	90	GLN	CB-CG-CD	5.80	122.47	112.60
6	P	184	LYS	O-C-N	5.80	128.12	122.09
2	B	626	LEU	N-CA-C	5.80	117.60	111.28
3	C	26	ASP	CA-CB-CG	5.80	118.40	112.60
4	D	302	GLU	N-CA-C	5.80	123.16	110.80
6	O	27	THR	O-C-N	5.80	130.60	122.77
6	U	283	SER	CA-C-N	5.80	127.99	120.56
6	U	283	SER	C-N-CA	5.80	127.99	120.56
6	V	395	THR	CA-C-O	5.80	126.67	120.46
6	W	577	VAL	CA-CB-CG1	5.80	120.26	110.40
1	A	741	PRO	N-CA-C	5.80	124.42	112.47
1	A	1234	ASN	CA-CB-CG	5.80	118.40	112.60
6	Q	572	ALA	N-CA-C	5.80	118.55	111.82
5	R	118	THR	CA-C-N	5.80	132.41	121.97
5	R	118	THR	C-N-CA	5.80	132.41	121.97
6	V	291	PRO	CA-C-O	-5.80	114.94	121.43
6	X	363	ASN	CA-CB-CG	5.80	118.40	112.60
1	A	690	ARG	N-CA-C	5.80	117.27	111.07
4	D	389	PHE	O-C-N	-5.80	114.88	122.59
6	J	292	ARG	NE-CZ-NH2	5.80	124.42	119.20
6	J	504	ASN	N-CA-CB	-5.80	100.69	110.49
6	O	350	THR	CA-CB-OG1	5.80	118.30	109.60
1	A	954	HIS	CA-C-N	5.80	131.06	122.71
1	A	954	HIS	C-N-CA	5.80	131.06	122.71
3	C	429	ASN	OD1-CG-ND2	-5.80	116.80	122.60
4	D	114	VAL	O-C-N	-5.80	115.32	122.57
5	G	220	ASP	N-CA-C	5.80	119.17	111.75
6	I	193	ILE	CB-CA-C	5.80	116.95	111.44
6	K	194	LEU	O-C-N	5.80	127.27	121.30
6	K	495	SER	O-C-N	5.80	128.26	122.12
6	O	421	HIS	CE1-NE2-CD2	-5.80	103.20	109.00
6	P	537	SER	CA-C-N	5.80	128.32	120.44
6	P	537	SER	C-N-CA	5.80	128.32	120.44
6	Q	345	ILE	CA-CB-CG1	5.80	120.25	110.40
5	T	5	MET	CG-SD-CE	-5.80	88.15	100.90
6	U	270	ASP	N-CA-C	5.80	119.55	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	V	506	ALA	CA-C-O	-5.80	112.22	120.51
1	A	1151	ASN	N-CA-CB	-5.79	100.75	111.53
2	B	929	PRO	N-CA-CB	5.79	108.70	103.20
6	I	122	THR	CA-CB-OG1	5.79	118.29	109.60
6	I	579	ASN	OD1-CG-ND2	-5.79	116.81	122.60
6	J	472	ARG	CG-CD-NE	5.79	124.75	112.00
6	K	279	PRO	N-CA-C	5.79	124.41	112.47
6	V	417	PHE	CA-CB-CG	5.79	119.59	113.80
1	A	159	THR	N-CA-CB	5.79	120.91	110.83
2	B	504	THR	O-C-N	5.79	129.86	122.33
3	C	214	HIS	O-C-N	5.79	130.29	122.59
3	C	622	PRO	N-CA-CB	5.79	108.70	103.08
5	H	223	THR	CA-CB-CG2	5.79	120.35	110.50
6	J	465	THR	CA-CB-OG1	5.79	118.29	109.60
6	J	607	ALA	N-CA-C	5.79	118.37	111.71
5	M	35	PHE	CA-CB-CG	-5.79	108.01	113.80
5	M	36	ASP	N-CA-CB	-5.79	102.75	110.57
5	M	124	ASP	N-CA-C	5.79	123.14	110.80
6	P	459	LEU	N-CA-CB	-5.79	102.79	111.25
6	V	79	ARG	O-C-N	5.79	128.11	122.09
2	B	976	ASN	CA-C-N	-5.79	115.63	122.93
2	B	976	ASN	C-N-CA	-5.79	115.63	122.93
6	J	23	THR	O-C-N	5.79	130.37	123.24
6	J	639	ASP	N-CA-C	5.79	118.06	111.11
6	K	593	GLN	OE1-CD-NE2	-5.79	116.81	122.60
5	S	10	ALA	N-CA-CB	5.79	118.63	110.12
6	U	147	ARG	NH1-CZ-NH2	5.79	126.83	119.30
6	V	456	ASN	N-CA-CB	-5.79	97.46	109.45
6	W	305	LYS	N-CA-C	5.79	123.13	110.80
6	X	66	ASP	CA-CB-CG	5.79	118.39	112.60
6	I	516	LYS	CA-C-O	-5.79	114.41	120.55
6	J	245	ALA	N-CA-C	5.79	118.75	110.24
6	K	560	PRO	N-CA-CB	5.79	109.33	103.25
2	B	289	ASN	CB-CG-ND2	-5.79	107.72	116.40
3	C	338	GLU	CB-CG-CD	5.79	122.44	112.60
3	C	1002	PRO	N-CA-C	5.79	117.76	110.70
3	C	1017	PHE	O-C-N	5.79	130.33	123.27
5	F	12	ALA	N-CA-CB	-5.79	101.62	110.01
6	P	368	THR	CA-CB-OG1	5.79	118.28	109.60
5	R	171	HIS	CE1-NE2-CD2	-5.79	103.21	109.00
6	W	338	VAL	O-C-N	5.79	130.46	122.88
6	X	593	GLN	N-CA-C	5.79	118.18	107.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	Y	104	LEU	N-CA-C	5.79	119.10	107.41
3	C	316	THR	CA-C-O	-5.79	113.78	120.49
6	I	390	ASN	CA-CB-CG	5.79	118.39	112.60
6	W	641	ILE	O-C-N	5.79	127.48	121.87
3	C	1045	TRP	CG-CD2-CE3	-5.79	128.11	133.90
5	H	198	HIS	CG-ND1-CE1	-5.79	99.46	109.30
5	M	12	ALA	O-C-N	5.79	128.03	122.07
6	O	185	SER	CA-C-N	5.79	128.29	120.65
6	O	185	SER	C-N-CA	5.79	128.29	120.65
6	Q	639	ASP	CA-CB-CG	5.79	118.39	112.60
5	S	183	ASP	CA-CB-CG	5.79	118.39	112.60
4	E	183	ALA	N-CA-C	5.78	123.12	110.80
6	J	269	LYS	CA-C-N	5.78	130.58	122.08
6	J	269	LYS	C-N-CA	5.78	130.58	122.08
5	L	211	ALA	N-CA-C	5.78	118.05	111.11
6	V	185	SER	CA-C-N	5.78	128.28	120.65
6	V	185	SER	C-N-CA	5.78	128.28	120.65
6	X	396	VAL	CA-CB-CG1	5.78	120.23	110.40
3	C	451	LEU	CA-C-O	-5.78	113.82	120.24
4	E	301	ASP	O-C-N	5.78	129.98	122.87
6	O	70	GLN	CB-CG-CD	5.78	122.43	112.60
5	S	15	ARG	O-C-N	5.78	129.38	122.27
5	T	166	LYS	CA-CB-CG	5.78	125.66	114.10
6	U	330	GLN	N-CA-CB	-5.78	103.51	112.30
6	W	66	ASP	O-C-N	5.78	128.99	122.22
1	A	1093	ASN	N-CA-C	5.78	120.33	113.28
1	A	1147	THR	CA-C-N	5.78	129.10	120.31
1	A	1147	THR	C-N-CA	5.78	129.10	120.31
2	B	772	THR	CA-CB-OG1	5.78	118.27	109.60
2	B	953	GLY	CA-C-N	5.78	127.06	119.84
2	B	953	GLY	C-N-CA	5.78	127.06	119.84
3	C	520	PRO	N-CA-C	5.78	124.38	112.47
3	C	862	GLU	N-CA-CB	-5.78	101.32	110.22
4	D	23	LEU	N-CA-C	5.78	118.32	111.33
4	E	27	GLN	O-C-N	5.78	128.03	122.07
6	I	566	TRP	CZ3-CH2-CZ2	-5.78	113.99	121.50
6	J	599	ALA	N-CA-C	5.78	117.58	111.28
5	M	157	HIS	ND1-CE1-NE2	5.78	114.18	108.40
6	U	347	SER	CB-CA-C	-5.78	98.85	110.30
6	V	517	LEU	N-CA-CB	-5.78	101.63	110.01
1	A	269	ALA	CB-CA-C	5.78	120.03	110.90
1	A	737	SER	O-C-N	5.78	128.25	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	159	TRP	CB-CA-C	5.78	120.03	110.90
6	K	610	THR	N-CA-C	5.78	119.64	112.59
6	O	283	SER	CA-C-N	5.78	127.96	120.56
6	O	283	SER	C-N-CA	5.78	127.96	120.56
2	B	749	HIS	ND1-CE1-NE2	5.78	114.18	108.40
3	C	75	ASP	N-CA-C	5.78	120.33	112.88
3	C	461	ASN	CA-C-O	5.78	126.63	120.10
3	C	668	LEU	CA-C-N	5.78	128.60	120.28
3	C	668	LEU	C-N-CA	5.78	128.60	120.28
4	D	128	TYR	O-C-N	-5.78	116.12	122.07
6	I	492	ASN	CA-CB-CG	5.78	118.38	112.60
6	Q	362	THR	CA-CB-OG1	5.78	118.27	109.60
6	U	345	ILE	CA-CB-CG1	5.78	120.22	110.40
6	W	159	TRP	CB-CA-C	5.78	120.03	110.90
1	A	462	ASN	OD1-CG-ND2	-5.78	116.83	122.60
3	C	136	LEU	O-C-N	5.78	128.24	122.12
6	J	532	ASP	CA-C-N	5.78	130.97	123.00
6	J	532	ASP	C-N-CA	5.78	130.97	123.00
5	N	32	THR	CA-CB-OG1	5.78	118.27	109.60
6	O	613	LEU	N-CA-C	5.78	123.10	110.80
6	Q	15	GLY	N-CA-C	5.78	121.65	112.06
6	W	545	VAL	O-C-N	5.78	129.46	121.84
5	Y	124	ASP	N-CA-C	5.78	123.10	110.80
5	Y	239	GLY	O-C-N	5.78	127.55	121.77
4	E	332	PRO	N-CA-CB	5.77	109.31	103.25
6	Q	285	PHE	CB-CG-CD1	-5.77	110.88	120.70
5	S	15	ARG	N-CA-C	5.77	118.52	111.82
6	V	305	LYS	N-CA-C	5.77	123.10	110.80
4	D	158	HIS	CE1-NE2-CD2	-5.77	103.23	109.00
6	J	84	LYS	O-C-N	5.77	128.24	122.12
6	K	140	VAL	O-C-N	-5.77	115.73	121.96
6	K	516	LYS	CA-C-O	-5.77	114.43	120.55
5	N	222	LEU	O-C-N	5.77	130.61	122.41
6	P	271	LEU	N-CA-C	5.77	123.10	110.80
6	W	195	PRO	N-CA-CB	5.77	108.44	103.36
6	W	345	ILE	CA-CB-CG1	5.77	120.21	110.40
3	C	912	ALA	CA-C-O	5.77	126.86	120.63
6	K	195	PRO	N-CA-CB	5.77	108.46	103.27
6	K	383	GLN	N-CA-C	5.77	119.94	113.01
6	Q	368	THR	CA-CB-OG1	5.77	118.26	109.60
6	V	264	SER	O-C-N	5.77	128.97	122.22
6	J	317	ARG	NH1-CZ-NH2	-5.77	111.80	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	459	LEU	N-CA-CB	-5.77	102.83	111.25
6	J	506	ALA	CA-C-O	-5.77	112.26	120.51
6	Q	159	TRP	CB-CA-C	5.77	120.01	110.90
5	R	161	LEU	CA-C-N	5.77	132.11	123.23
5	R	161	LEU	C-N-CA	5.77	132.11	123.23
5	T	3	LEU	N-CA-CB	-5.77	101.12	109.83
6	X	545	VAL	O-C-N	5.77	129.46	121.84
2	B	426	ASN	CA-C-N	5.77	128.59	120.28
2	B	426	ASN	C-N-CA	5.77	128.59	120.28
2	B	650	TRP	CA-C-O	-5.77	114.43	120.02
2	B	695	SER	O-C-N	5.77	130.54	123.10
3	C	607	HIS	CA-CB-CG	-5.77	108.03	113.80
3	C	802	ALA	N-CA-C	5.77	119.79	112.87
3	C	907	ASP	N-CA-C	5.77	118.03	111.11
5	H	66	GLN	CB-CG-CD	5.77	122.40	112.60
6	I	596	MET	N-CA-C	5.77	118.34	111.71
6	O	330	GLN	N-CA-CB	-5.77	103.53	112.30
6	Q	291	PRO	CA-C-O	-5.77	114.97	121.43
6	Q	537	SER	CA-C-N	5.77	127.94	120.44
6	Q	537	SER	C-N-CA	5.77	127.94	120.44
5	R	12	ALA	N-CA-CB	-5.77	101.64	110.12
5	R	219	HIS	CG-ND1-CE1	-5.77	99.50	109.30
6	U	434	ILE	N-CA-C	5.77	121.34	108.88
6	W	505	ASP	N-CA-C	5.77	118.30	108.90
1	A	81	TYR	N-CA-C	5.77	117.24	111.07
3	C	1087	TYR	CB-CA-C	5.77	119.73	110.16
6	J	191	LYS	N-CA-C	5.77	120.16	113.18
6	J	396	VAL	CA-CB-CG1	5.77	120.20	110.40
6	U	215	TYR	CB-CG-CD2	5.77	129.45	120.80
6	U	459	LEU	CA-CB-CG	5.77	136.48	116.30
6	X	200	CYS	N-CA-C	5.77	117.56	111.28
2	B	701	ILE	O-C-N	5.76	127.88	121.94
3	C	608	GLN	O-C-N	5.76	128.97	122.22
4	E	9	LEU	N-CA-C	5.76	118.06	109.59
5	H	3	LEU	N-CA-CB	-5.76	100.87	109.69
6	I	456	ASN	N-CA-C	5.76	119.67	109.58
6	J	456	ASN	N-CA-CB	-5.76	97.52	109.45
6	P	149	ILE	N-CA-CB	-5.76	102.70	110.54
6	Q	505	ASP	N-CA-C	5.76	118.30	108.90
6	W	84	LYS	O-C-N	5.76	128.23	122.12
6	X	231	GLN	N-CA-C	5.76	120.59	113.50
1	A	529	ASP	N-CA-C	5.76	122.48	113.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	L	152	HIS	CG-CD2-NE2	5.76	112.96	107.20
1	A	272	ASP	CA-C-N	5.76	127.93	120.44
1	A	272	ASP	C-N-CA	5.76	127.93	120.44
1	A	354	VAL	CA-C-O	-5.76	116.12	120.96
1	A	922	VAL	CB-CA-C	5.76	120.46	112.05
3	C	617	HIS	CG-CD2-NE2	5.76	112.96	107.20
4	D	271	SER	CA-C-O	-5.76	112.87	119.32
4	E	78	PRO	O-C-N	5.76	130.42	122.64
6	W	253	VAL	N-CA-C	5.76	117.19	110.62
5	Y	50	ALA	N-CA-C	5.76	118.34	111.71
1	A	562	SER	N-CA-C	5.76	118.03	108.99
3	C	759	ALA	N-CA-C	5.76	120.87	111.37
6	I	79	ARG	O-C-N	5.76	128.08	122.09
6	J	330	GLN	N-CA-CB	-5.76	103.55	112.30
6	J	397	VAL	O-C-N	5.76	130.00	121.99
5	L	182	HIS	CB-CA-C	5.76	120.70	111.66
6	P	430	THR	CA-CB-OG1	5.76	118.24	109.60
6	P	459	LEU	CA-C-N	-5.76	113.05	122.26
6	P	459	LEU	C-N-CA	-5.76	113.05	122.26
6	X	511	SER	N-CA-CB	5.76	118.70	110.06
4	E	302	GLU	N-CA-C	5.76	118.04	111.02
5	H	274	PRO	N-CA-CB	5.76	109.30	103.25
6	I	168	THR	CA-CB-OG1	5.76	118.24	109.60
6	J	57	THR	N-CA-C	5.76	123.06	110.80
5	S	160	ILE	N-CA-CB	5.76	120.73	111.23
6	W	499	ALA	N-CA-C	5.76	118.30	111.33
3	C	580	HIS	CB-CG-CD2	-5.76	123.72	131.20
3	C	743	THR	N-CA-CB	5.76	120.96	110.08
6	I	282	VAL	CA-CB-CG1	5.76	120.19	110.40
6	J	271	LEU	N-CA-C	5.76	123.06	110.80
6	J	426	PHE	CA-CB-CG	5.76	119.56	113.80
6	P	126	ALA	N-CA-C	5.76	118.50	111.82
2	B	571	LEU	N-CA-C	5.75	117.36	111.14
6	O	279	PRO	N-CA-C	5.75	124.33	112.47
6	U	52	GLY	CA-C-O	5.75	130.58	120.57
6	U	57	THR	N-CA-C	5.75	123.06	110.80
6	U	242	PHE	CB-CG-CD1	5.75	130.48	120.70
6	V	577	VAL	CA-CB-CG1	5.75	120.18	110.40
4	E	294	THR	N-CA-C	5.75	118.59	109.50
5	F	26	THR	CA-CB-CG2	5.75	120.28	110.50
5	H	59	HIS	ND1-CE1-NE2	5.75	114.15	108.40
5	H	124	ASP	N-CA-C	5.75	123.06	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	K	23	THR	O-C-N	5.75	130.32	123.24
6	O	215	TYR	CB-CG-CD2	5.75	129.43	120.80
6	P	474	THR	CA-C-N	5.75	129.00	120.95
6	P	474	THR	C-N-CA	5.75	129.00	120.95
3	C	373	ARG	NE-CZ-NH2	5.75	124.38	119.20
6	O	389	ALA	CA-C-N	5.75	128.26	120.38
6	O	389	ALA	C-N-CA	5.75	128.26	120.38
6	P	278	THR	CA-C-N	5.75	127.03	119.84
6	P	278	THR	C-N-CA	5.75	127.03	119.84
6	Q	118	TYR	N-CA-C	5.75	119.62	109.96
5	R	124	ASP	N-CA-C	5.75	123.05	110.80
6	U	412	ARG	N-CA-CB	5.75	120.60	111.17
4	D	35	ARG	CG-CD-NE	-5.75	99.35	112.00
4	D	332	PRO	N-CA-C	5.75	121.41	113.65
5	L	66	GLN	N-CA-C	5.75	117.55	111.28
6	V	348	VAL	CG1-CB-CG2	-5.75	98.15	110.80
1	A	1226	ILE	CA-CB-CG1	5.75	120.17	110.40
1	A	1295	GLU	CA-C-O	5.75	127.63	121.02
3	C	106	MET	N-CA-CB	5.75	121.46	110.82
3	C	137	ARG	NE-CZ-NH1	-5.75	115.75	121.50
5	G	183	ASP	CA-CB-CG	5.75	118.35	112.60
6	J	590	VAL	N-CA-C	5.75	120.15	113.42
6	O	533	ASP	CB-CA-C	5.75	119.67	109.72
5	R	67	ASP	N-CA-C	5.75	117.55	111.28
6	U	122	THR	CA-CB-OG1	5.75	118.22	109.60
6	U	140	VAL	O-C-N	-5.75	115.75	121.96
6	W	317	ARG	NH1-CZ-NH2	-5.75	111.83	119.30
1	A	134	PHE	CA-CB-CG	5.75	119.55	113.80
1	A	515	SER	N-CA-C	5.75	118.47	108.76
6	I	517	LEU	N-CA-CB	-5.75	101.68	110.01
6	J	217	ALA	N-CA-C	5.75	123.04	110.80
5	T	12	ALA	O-C-N	5.75	127.99	122.07
6	V	317	ARG	NE-CZ-NH2	5.75	124.37	119.20
6	W	133	ASN	N-CA-C	5.75	119.17	111.24
6	X	67	ARG	O-C-N	5.75	130.23	122.59
1	A	888	ILE	O-C-N	5.75	129.95	122.94
2	B	1106	LYS	O-C-N	5.75	128.21	122.12
3	C	47	ASN	CA-C-O	-5.75	114.79	120.82
3	C	482	SER	CA-CB-OG	5.75	122.59	111.10
6	J	184	LYS	O-C-N	5.75	128.06	122.09
5	S	147	HIS	CA-C-O	5.75	127.49	120.31
6	U	604	VAL	O-C-N	5.75	127.52	121.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	75	ILE	O-C-N	5.74	127.67	121.87
3	C	95	LYS	N-CA-CB	5.74	120.85	110.17
5	F	3	LEU	N-CA-CB	-5.74	101.16	109.83
5	F	139	SER	CA-C-N	5.74	128.45	120.29
5	F	139	SER	C-N-CA	5.74	128.45	120.29
5	H	90	GLN	CB-CG-CD	5.74	122.37	112.60
5	N	59	HIS	ND1-CE1-NE2	5.74	114.14	108.40
5	N	157	HIS	ND1-CE1-NE2	5.74	114.14	108.40
5	N	183	ASP	CA-CB-CG	5.74	118.34	112.60
6	O	459	LEU	CA-C-N	-5.74	113.07	122.26
6	O	459	LEU	C-N-CA	-5.74	113.07	122.26
6	P	244	ALA	N-CA-C	5.74	118.99	109.46
6	Q	330	GLN	N-CA-CB	-5.74	103.57	112.30
6	U	36	LEU	N-CA-C	5.74	118.23	110.88
6	V	397	VAL	O-C-N	5.74	129.97	121.99
6	W	16	ASP	O-C-N	5.74	130.40	123.16
3	C	452	ARG	O-C-N	5.74	127.98	122.07
4	E	327	ASP	O-C-N	5.74	128.21	122.12
5	S	166	LYS	CA-CB-CG	5.74	125.58	114.10
6	U	252	LEU	O-C-N	5.74	127.98	122.07
6	V	390	ASN	CA-CB-CG	5.74	118.34	112.60
1	A	71	HIS	N-CA-C	5.74	119.48	111.56
2	B	931	ILE	CB-CA-C	5.74	118.25	111.59
2	B	988	ALA	N-CA-C	5.74	118.06	107.73
3	C	77	ASP	CA-CB-CG	5.74	118.34	112.60
4	D	242	ASN	N-CA-C	5.74	122.50	109.81
4	E	386	ILE	N-CA-C	5.74	121.28	109.34
5	H	141	THR	OG1-CB-CG2	5.74	120.78	109.30
5	H	248	ALA	O-C-N	5.74	129.93	123.27
5	M	10	ALA	N-CA-CB	5.74	118.56	110.12
6	X	34	ILE	CA-C-O	-5.74	115.20	121.92
6	X	305	LYS	N-CA-C	5.74	123.03	110.80
2	B	417	VAL	CA-CB-CG2	5.74	120.15	110.40
3	C	791	ALA	N-CA-C	5.74	117.34	111.14
6	K	421	HIS	O-C-N	5.74	130.47	123.01
6	P	105	PRO	N-CA-C	5.74	124.29	112.47
5	R	186	LEU	N-CA-C	5.74	119.02	108.58
6	X	575	MET	N-CA-C	5.74	118.00	111.11
1	A	306	ARG	N-CA-C	5.74	117.53	111.28
1	A	1190	ARG	NE-CZ-NH2	5.74	124.36	119.20
4	E	24	ASN	N-CA-C	5.74	118.00	111.11
5	M	92	ALA	N-CA-CB	-5.74	101.61	110.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	N	152	HIS	CG-CD2-NE2	5.74	112.94	107.20
6	O	545	VAL	O-C-N	5.74	129.68	121.82
6	X	255	SER	CA-C-O	-5.74	114.43	120.63
6	X	368	THR	CA-CB-OG1	5.74	118.21	109.60
3	C	239	ALA	N-CA-C	5.74	117.61	111.36
5	M	200	THR	N-CA-C	5.74	119.02	108.58
6	P	193	ILE	CA-CB-CG2	5.74	120.25	110.50
6	P	418	ASN	CB-CG-OD1	-5.74	109.33	120.80
6	W	590	VAL	N-CA-C	5.74	120.13	113.42
6	W	596	MET	N-CA-C	5.74	118.31	111.71
6	X	60	SER	CA-C-O	-5.74	113.95	120.32
6	X	575	MET	O-C-N	5.74	128.06	122.09
5	Y	247	PHE	CA-C-N	5.74	131.75	122.29
5	Y	247	PHE	C-N-CA	5.74	131.75	122.29
5	M	12	ALA	N-CA-CB	-5.73	101.69	110.01
6	P	255	SER	O-C-N	5.73	128.20	122.12
6	P	330	GLN	CA-C-N	5.73	132.49	121.54
6	P	330	GLN	C-N-CA	5.73	132.49	121.54
6	Q	195	PRO	N-CA-CB	5.73	108.43	103.27
4	D	374	LEU	N-CA-C	5.73	117.53	111.28
5	H	81	SER	N-CA-C	5.73	117.53	111.28
6	K	246	THR	CA-C-N	5.73	128.75	120.38
6	K	246	THR	C-N-CA	5.73	128.75	120.38
5	L	166	LYS	CA-CB-CG	5.73	125.57	114.10
6	O	630	LEU	O-C-N	5.73	127.97	122.07
6	U	133	ASN	N-CA-C	5.73	119.25	111.17
1	A	1172	GLN	OE1-CD-NE2	-5.73	116.87	122.60
5	G	36	ASP	N-CA-CB	-5.73	102.83	110.57
6	I	537	SER	CA-CB-OG	5.73	122.56	111.10
5	N	189	CYS	N-CA-C	5.73	116.92	109.64
6	Q	342	ASN	N-CA-C	5.73	118.77	108.17
6	Q	533	ASP	CB-CG-OD1	5.73	131.58	118.40
6	V	126	ALA	N-CA-C	5.73	118.47	111.82
5	Y	200	THR	N-CA-C	5.73	119.01	108.58
5	F	161	LEU	CA-C-N	5.73	132.05	123.23
5	F	161	LEU	C-N-CA	5.73	132.05	123.23
5	L	220	ASP	O-C-N	5.73	128.73	122.20
6	O	575	MET	N-CA-C	5.73	117.98	111.11
1	A	365	PHE	CA-CB-CG	5.73	119.53	113.80
4	E	391	ALA	CA-C-O	5.73	126.82	120.63
5	F	223	THR	CA-CB-CG2	5.73	120.24	110.50
6	I	264	SER	O-C-N	5.73	128.92	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	K	187	LEU	N-CA-C	5.73	118.26	111.33
6	K	390	ASN	CA-CB-CG	5.73	118.33	112.60
6	K	533	ASP	CB-CG-OD1	5.73	131.57	118.40
5	M	166	LYS	CA-CB-CG	5.73	125.56	114.10
6	O	284	VAL	CB-CA-C	5.73	119.52	112.02
6	O	315	LEU	CA-C-N	-5.73	115.08	123.10
6	O	315	LEU	C-N-CA	-5.73	115.08	123.10
6	Q	306	TRP	CE2-CD2-CE3	5.73	124.53	118.80
6	Q	356	THR	O-C-N	5.73	130.21	122.59
5	Y	143	CYS	CA-C-O	5.73	127.37	121.07
5	Y	211	ALA	N-CA-C	5.73	117.98	111.11
2	B	525	TYR	CA-CB-CG	5.73	124.21	113.90
3	C	535	TRP	CE3-CZ3-CH2	-5.73	113.66	121.10
6	K	368	THR	CA-CB-OG1	5.73	118.19	109.60
6	P	621	SER	O-C-N	5.73	128.19	122.12
5	S	12	ALA	O-C-N	5.73	127.97	122.07
1	A	930	TRP	CA-C-O	-5.72	115.66	122.13
2	B	669	PHE	CA-C-O	5.72	126.44	119.11
6	J	292	ARG	CD-NE-CZ	5.72	132.41	124.40
5	M	15	ARG	O-C-N	5.72	129.31	122.27
5	R	222	LEU	N-CA-C	5.72	120.26	113.28
6	U	92	TRP	N-CA-C	5.72	119.58	112.59
6	U	168	THR	OG1-CB-CG2	-5.72	97.85	109.30
6	U	472	ARG	O-C-N	5.72	130.50	122.77
5	Y	12	ALA	N-CA-CB	-5.72	101.69	110.16
3	C	1017	PHE	CB-CG-CD1	5.72	130.43	120.70
4	E	82	GLY	N-CA-C	5.72	126.74	113.18
6	P	163	LEU	N-CA-C	5.72	117.98	111.11
6	U	430	THR	CA-CB-OG1	5.72	118.19	109.60
6	U	537	SER	CA-C-N	5.72	127.88	120.44
6	U	537	SER	C-N-CA	5.72	127.88	120.44
2	B	481	ARG	CD-NE-CZ	5.72	132.41	124.40
5	H	200	THR	N-CA-C	5.72	118.99	108.58
6	J	561	ASP	N-CA-C	5.72	122.98	110.80
6	O	561	ASP	N-CA-C	5.72	122.98	110.80
6	P	465	THR	CA-CB-OG1	5.72	118.18	109.60
6	Q	590	VAL	N-CA-C	5.72	120.11	113.42
6	U	330	GLN	CB-CG-CD	5.72	122.32	112.60
2	B	1028	GLU	N-CA-C	5.72	116.90	109.64
6	O	348	VAL	CG1-CB-CG2	-5.72	98.22	110.80
6	Q	42	ASN	CA-CB-CG	5.72	118.32	112.60
1	A	975	GLN	CA-C-N	5.72	128.41	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	975	GLN	C-N-CA	5.72	128.41	120.29
1	A	1209	ASP	CB-CA-C	5.72	118.01	110.06
3	C	667	ASN	OD1-CG-ND2	5.72	128.32	122.60
4	D	39	SER	CA-C-N	5.72	127.87	120.44
4	D	39	SER	C-N-CA	5.72	127.87	120.44
5	F	90	GLN	CB-CG-CD	5.72	122.32	112.60
6	I	15	GLY	N-CA-C	5.72	121.55	112.06
6	I	16	ASP	O-C-N	5.72	130.36	123.16
6	K	165	THR	CA-CB-CG2	5.72	120.22	110.50
6	K	321	THR	N-CA-C	5.72	120.91	113.88
5	N	246	THR	O-C-N	5.72	130.67	123.12
6	Q	330	GLN	CB-CG-CD	5.72	122.32	112.60
6	W	165	THR	CA-CB-OG1	5.72	118.17	109.60
6	X	154	ARG	N-CA-C	5.72	118.28	111.71
1	A	635	TYR	N-CA-C	5.71	120.78	113.18
2	B	828	GLU	CB-CG-CD	5.71	122.31	112.60
6	O	330	GLN	CA-C-N	5.71	132.46	121.54
6	O	330	GLN	C-N-CA	5.71	132.46	121.54
6	P	305	LYS	N-CA-C	5.71	122.97	110.80
6	P	578	SER	CA-CB-OG	5.71	122.53	111.10
6	Q	36	LEU	N-CA-C	5.71	118.20	110.88
6	X	285	PHE	CB-CG-CD1	-5.71	110.99	120.70
6	X	456	ASN	CA-CB-CG	5.71	118.31	112.60
3	C	370	ARG	N-CA-C	5.71	118.47	109.96
3	C	738	GLN	N-CA-C	5.71	118.45	111.82
5	H	186	LEU	N-CA-C	5.71	118.98	108.58
6	J	285	PHE	CB-CG-CD1	-5.71	110.99	120.70
6	O	118	TYR	N-CA-C	5.71	119.56	109.96
6	O	466	VAL	O-C-N	5.71	128.77	122.66
6	U	426	PHE	CA-CB-CG	5.71	119.51	113.80
6	X	345	ILE	CA-CB-CG1	5.71	120.11	110.40
1	A	75	ILE	N-CA-C	5.71	118.19	111.05
1	A	290	HIS	CB-CG-ND1	5.71	131.27	122.70
6	J	330	GLN	CA-C-N	5.71	132.45	121.54
6	J	330	GLN	C-N-CA	5.71	132.45	121.54
6	J	459	LEU	CA-C-N	-5.71	113.12	122.26
6	J	459	LEU	C-N-CA	-5.71	113.12	122.26
5	M	219	HIS	CG-ND1-CE1	-5.71	99.59	109.30
5	N	124	ASP	N-CA-C	5.71	122.97	110.80
6	O	515	ASN	OD1-CG-ND2	-5.71	116.89	122.60
6	P	115	THR	O-C-N	-5.71	116.50	123.30
6	U	396	VAL	CA-CB-CG1	5.71	120.11	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	V	340	ASP	N-CA-CB	-5.71	102.86	110.57
6	V	390	ASN	O-C-N	5.71	128.18	122.12
6	X	121	ALA	N-CA-C	5.71	117.99	111.02
6	X	149	ILE	N-CA-CB	-5.71	102.77	110.54
6	X	517	LEU	N-CA-CB	-5.71	101.73	110.01
1	A	47	LEU	CD1-CG-CD2	5.71	123.36	110.80
1	A	648	THR	CA-C-N	5.71	132.25	121.97
1	A	648	THR	C-N-CA	5.71	132.25	121.97
4	E	143	HIS	CG-CD2-NE2	5.71	112.91	107.20
5	G	201	HIS	CE1-NE2-CD2	-5.71	103.29	109.00
6	U	262	ALA	N-CA-C	5.71	117.18	111.07
2	B	1017	PHE	N-CA-C	5.71	117.96	108.20
3	C	303	GLN	CB-CG-CD	5.71	122.30	112.60
3	C	1172	LEU	CA-C-O	5.71	126.47	120.42
4	D	345	GLY	CA-C-N	5.71	128.20	120.38
4	D	345	GLY	C-N-CA	5.71	128.20	120.38
5	F	198	HIS	ND1-CG-CD2	5.71	111.81	106.10
5	G	228	ASP	CA-CB-CG	5.71	118.31	112.60
6	P	352	ASP	O-C-N	5.71	131.64	122.96
6	Q	315	LEU	CA-C-N	-5.71	115.11	123.10
6	Q	315	LEU	C-N-CA	-5.71	115.11	123.10
6	Q	579	ASN	CB-CA-C	5.71	117.72	110.98
5	R	247	PHE	CA-C-N	5.71	131.71	122.29
5	R	247	PHE	C-N-CA	5.71	131.71	122.29
6	V	311	ASN	CA-CB-CG	5.71	118.31	112.60
1	A	223	GLY	N-CA-C	5.71	123.98	112.34
6	K	262	ALA	CA-C-O	-5.71	114.83	120.82
6	U	270	ASP	CA-CB-CG	5.71	118.31	112.60
6	W	292	ARG	NE-CZ-NH2	5.71	124.34	119.20
6	W	394	ILE	N-CA-CB	5.71	118.45	111.60
1	A	289	TYR	CA-C-O	-5.71	114.71	121.16
3	C	1080	HIS	N-CA-C	5.71	118.98	110.14
4	E	90	ILE	N-CA-CB	-5.71	100.20	111.15
4	E	314	ASN	CA-CB-CG	5.71	118.31	112.60
6	Q	79	ARG	O-C-N	5.71	128.02	122.09
6	Q	284	VAL	CB-CA-C	5.71	119.49	112.02
6	U	159	TRP	CB-CA-C	5.71	119.91	110.90
6	U	356	THR	O-C-N	5.71	130.18	122.59
6	X	196	LEU	O-C-N	5.71	128.17	122.12
2	B	585	VAL	N-CA-C	5.70	115.90	110.42
3	C	845	PHE	N-CA-C	5.70	119.05	111.75
5	G	5	MET	CG-SD-CE	-5.70	88.35	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	I	242	PHE	CB-CG-CD1	5.70	130.40	120.70
6	J	248	GLU	CB-CA-C	5.70	119.30	109.15
5	Y	4	HIS	CB-CG-ND1	5.70	131.26	122.70
5	Y	248	ALA	O-C-N	5.70	129.88	123.27
1	A	11	PRO	N-CA-C	5.70	121.33	113.98
3	C	436	LEU	CA-C-N	5.70	130.50	122.74
3	C	436	LEU	C-N-CA	5.70	130.50	122.74
6	I	70	GLN	N-CA-C	5.70	122.95	110.80
6	J	115	THR	O-C-N	-5.70	116.51	123.30
1	A	1053	THR	OG1-CB-CG2	5.70	120.70	109.30
2	B	689	VAL	CA-CB-CG2	5.70	120.09	110.40
2	B	1030	GLN	N-CA-C	5.70	118.84	109.72
4	D	369	HIS	N-CA-C	5.70	117.49	111.28
5	M	32	THR	CA-CB-OG1	5.70	118.15	109.60
5	M	113	PRO	N-CA-C	5.70	119.84	110.55
6	O	291	PRO	CA-C-O	-5.70	115.05	121.43
6	O	489	VAL	CA-C-N	5.70	128.94	120.90
6	O	489	VAL	C-N-CA	5.70	128.94	120.90
6	P	405	ILE	CA-CB-CG1	5.70	120.09	110.40
6	Q	511	SER	N-CA-CB	5.70	118.61	110.06
5	S	163	GLY	O-C-N	5.70	130.11	122.70
6	U	363	ASN	CA-CB-CG	5.70	118.30	112.60
6	X	82	PHE	CA-C-N	5.70	127.92	120.28
6	X	82	PHE	C-N-CA	5.70	127.92	120.28
2	B	349	VAL	CA-CB-CG2	5.70	120.09	110.40
3	C	672	SER	CA-C-N	5.70	129.81	120.63
3	C	672	SER	C-N-CA	5.70	129.81	120.63
3	C	691	PRO	N-CA-CB	5.70	106.81	102.36
3	C	782	ASN	N-CA-C	5.70	118.49	108.75
4	D	195	GLN	CA-CB-CG	5.70	125.50	114.10
5	H	61	ASN	N-CA-C	5.70	119.76	113.21
5	M	110	PHE	CA-C-O	-5.70	114.47	121.02
6	P	267	ALA	O-C-N	5.70	128.02	122.09
6	P	517	LEU	N-CA-CB	-5.70	101.75	110.01
6	Q	579	ASN	OD1-CG-ND2	-5.70	116.90	122.60
5	R	160	ILE	N-CA-CB	5.70	120.63	111.23
6	U	342	ASN	OD1-CG-ND2	5.70	128.30	122.60
6	V	604	VAL	O-C-N	5.70	127.47	121.89
6	W	593	GLN	OE1-CD-NE2	-5.70	116.90	122.60
3	C	402	TYR	CB-CA-C	5.70	119.82	110.88
4	E	336	ALA	O-C-N	5.70	128.01	122.09
5	G	90	GLN	CB-CG-CD	5.70	122.28	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	I	15	GLY	CA-C-O	-5.70	115.39	121.88
6	K	330	GLN	CB-CG-CD	5.70	122.28	112.60
6	U	311	ASN	CA-CB-CG	5.70	118.30	112.60
6	W	330	GLN	CB-CG-CD	5.70	122.28	112.60
1	A	391	VAL	CA-C-O	5.70	123.36	119.20
1	A	1207	LEU	N-CA-C	5.70	117.74	108.63
5	H	134	ASP	CA-CB-CG	5.70	118.30	112.60
6	Q	255	SER	CA-C-O	-5.70	114.48	120.63
5	R	170	GLU	N-CA-C	5.70	118.52	109.24
5	S	110	PHE	CA-C-O	-5.70	114.83	120.98
6	X	315	LEU	CA-C-N	-5.70	115.13	123.10
6	X	315	LEU	C-N-CA	-5.70	115.13	123.10
1	A	1168	PHE	N-CA-C	5.69	118.68	109.40
4	D	33	TYR	CB-CG-CD2	-5.69	112.26	120.80
5	L	57	ALA	CA-C-N	5.69	125.64	119.78
5	L	57	ALA	C-N-CA	5.69	125.64	119.78
6	P	412	ARG	N-CA-CB	5.69	120.27	111.39
6	Q	84	LYS	O-C-N	5.69	128.16	122.12
6	W	126	ALA	N-CA-C	5.69	118.42	111.82
6	W	270	ASP	N-CA-C	5.69	119.53	112.24
6	W	495	SER	O-C-N	5.69	128.16	122.12
2	B	418	GLN	CG-CD-NE2	5.69	124.94	116.40
3	C	890	GLN	O-C-N	5.69	129.91	123.42
6	J	126	ALA	N-CA-C	5.69	118.42	111.82
6	K	154	ARG	CG-CD-NE	5.69	124.52	112.00
6	K	242	PHE	O-C-N	5.69	129.27	122.27
5	L	256	ASP	CA-CB-CG	-5.69	106.91	112.60
6	P	457	PRO	CA-CB-CG	-5.69	93.68	104.50
6	Q	347	SER	CB-CA-C	-5.69	99.03	110.30
2	B	540	LEU	N-CA-C	5.69	122.92	110.80
3	C	276	THR	OG1-CB-CG2	5.69	120.68	109.30
3	C	521	MET	N-CA-C	5.69	119.03	111.75
4	E	195	GLN	CA-CB-CG	-5.69	102.72	114.10
4	E	255	ARG	CB-CG-CD	5.69	124.39	111.30
6	I	575	MET	N-CA-C	5.69	117.94	111.11
6	O	579	ASN	CB-CA-C	5.69	117.69	110.98
6	X	599	ALA	N-CA-C	5.69	117.48	111.28
4	D	399	GLN	N-CA-C	5.69	121.47	113.56
6	O	282	VAL	CA-CB-CG1	5.69	120.07	110.40
1	A	866	SER	N-CA-C	5.69	122.92	110.80
1	A	954	HIS	ND1-CE1-NE2	5.69	114.09	108.40
6	I	408	ALA	O-C-N	5.69	129.93	122.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	V	557	PRO	CB-CA-C	5.69	121.10	112.97
6	X	152	ARG	O-C-N	5.69	127.93	122.07
5	F	211	ALA	N-CA-C	5.69	117.93	111.11
6	O	217	ALA	N-CA-C	5.69	122.91	110.80
5	S	170	GLU	N-CA-C	5.69	118.51	109.24
6	U	245	ALA	N-CA-C	5.69	118.60	110.24
1	A	193	THR	N-CA-C	5.68	118.25	111.71
1	A	325	PRO	N-CD-CG	5.68	111.73	103.20
1	A	754	PRO	CA-N-CD	-5.68	104.04	112.00
3	C	593	LEU	N-CA-C	5.68	119.69	112.87
4	D	328	TYR	N-CA-C	5.68	118.04	109.23
6	J	16	ASP	O-C-N	5.68	130.32	123.16
6	K	262	ALA	N-CA-C	5.68	117.15	111.07
6	P	575	MET	N-CA-C	5.68	117.93	111.11
6	P	579	ASN	OD1-CG-ND2	-5.68	116.92	122.60
5	R	90	GLN	CB-CG-CD	5.68	122.26	112.60
6	U	255	SER	CA-C-O	-5.68	114.49	120.63
6	X	330	GLN	N-CA-CB	-5.68	103.66	112.30
1	A	178	ILE	CB-CG1-CD1	5.68	125.73	113.80
1	A	707	ASP	CA-CB-CG	-5.68	106.92	112.60
2	B	917	GLY	O-C-N	5.68	130.38	122.82
4	D	40	ARG	NE-CZ-NH2	5.68	124.31	119.20
5	G	168	PRO	N-CA-C	5.68	122.05	113.81
6	J	457	PRO	CA-CB-CG	-5.68	93.70	104.50
6	V	573	ALA	CA-C-O	5.68	126.98	120.90
6	X	317	ARG	NH1-CZ-NH2	-5.68	111.91	119.30
6	X	560	PRO	N-CA-CB	5.68	109.22	103.25
5	Y	4	HIS	CA-C-O	-5.68	114.98	121.40
5	R	147	HIS	CA-C-O	5.68	127.41	120.31
1	A	403	GLN	CB-CG-CD	5.68	122.26	112.60
1	A	1036	ARG	CA-C-N	-5.68	115.74	123.12
1	A	1036	ARG	C-N-CA	-5.68	115.74	123.12
2	B	1149	THR	OG1-CB-CG2	5.68	120.66	109.30
6	K	533	ASP	OD1-CG-OD2	-5.68	109.27	122.90
6	P	348	VAL	CG1-CB-CG2	-5.68	98.31	110.80
6	Q	279	PRO	N-CA-C	5.68	124.17	112.47
6	V	140	VAL	O-C-N	-5.68	115.83	121.96
5	Y	170	GLU	N-CA-C	5.68	118.50	109.24
1	A	773	ARG	NE-CZ-NH1	-5.68	115.82	121.50
1	A	780	LEU	CA-C-O	-5.68	115.31	121.44
6	Q	179	ALA	CA-C-O	-5.68	114.69	121.11
3	C	512	SER	CA-C-O	-5.68	114.53	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	I	215	TYR	CB-CG-CD2	5.68	129.32	120.80
6	I	538	ALA	O-C-N	5.68	127.92	122.07
5	R	67	ASP	CA-CB-CG	5.68	118.28	112.60
3	C	223	THR	CA-C-N	-5.67	114.37	122.77
3	C	223	THR	C-N-CA	-5.67	114.37	122.77
3	C	249	TRP	O-C-N	5.67	127.99	122.09
3	C	905	VAL	CA-CB-CG1	5.67	120.05	110.40
4	D	391	ALA	N-CA-C	5.67	117.47	111.28
6	K	492	ASN	CA-CB-CG	5.67	118.27	112.60
5	M	5	MET	CG-SD-CE	-5.67	88.41	100.90
6	W	380	VAL	O-C-N	5.67	126.14	120.92
5	Y	160	ILE	N-CA-CB	5.67	120.59	111.23
1	A	645	VAL	N-CA-C	5.67	118.00	108.81
6	Q	248	GLU	N-CA-C	5.67	121.07	114.04
6	U	124	GLY	O-C-N	5.67	130.07	122.70
6	U	537	SER	CA-CB-OG	5.67	122.45	111.10
6	V	82	PHE	CA-C-N	5.67	127.88	120.28
6	V	82	PHE	C-N-CA	5.67	127.88	120.28
1	A	331	SER	N-CA-C	5.67	120.73	111.37
5	H	12	ALA	O-C-N	5.67	128.13	122.12
6	I	280	LEU	O-C-N	5.67	127.66	121.36
5	M	104	LEU	N-CA-C	5.67	118.87	107.41
5	N	171	HIS	CE1-NE2-CD2	-5.67	103.33	109.00
6	Q	242	PHE	CB-CG-CD1	5.67	130.34	120.70
6	Q	244	ALA	N-CA-C	5.67	118.88	109.46
5	S	246	THR	O-C-N	5.67	130.61	123.12
6	V	578	SER	CA-CB-OG	5.67	122.44	111.10
5	Y	152	HIS	CG-CD2-NE2	5.67	112.87	107.20
1	A	823	THR	CA-CB-OG1	5.67	118.11	109.60
2	B	222	PHE	N-CA-C	5.67	119.01	111.75
3	C	861	ARG	N-CA-C	5.67	117.94	111.02
4	D	92	TRP	CB-CG-CD2	-5.67	118.86	126.80
6	O	427	GLU	CA-C-O	5.67	127.16	120.70
6	P	330	GLN	CB-CG-CD	5.67	122.24	112.60
6	V	10	THR	CA-CB-OG1	5.67	118.10	109.60
6	V	613	LEU	N-CA-C	5.67	122.88	110.80
1	A	696	PRO	N-CA-CB	5.67	108.37	103.27
2	B	1030	GLN	OE1-CD-NE2	-5.67	116.93	122.60
3	C	164	TRP	CA-C-O	5.67	126.34	119.31
4	D	303	ALA	N-CA-C	5.67	119.01	111.75
5	H	247	PHE	CA-C-N	5.67	131.64	122.29
5	H	247	PHE	C-N-CA	5.67	131.64	122.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	163	LEU	N-CA-C	5.67	117.91	111.11
6	Q	141	GLN	CA-CB-CG	5.67	125.44	114.10
6	Q	598	SER	CA-CB-OG	5.67	122.44	111.10
5	T	66	GLN	CB-CG-CD	5.67	122.24	112.60
6	U	152	ARG	O-C-N	5.67	127.91	122.07
6	U	418	ASN	OD1-CG-ND2	-5.67	116.93	122.60
6	X	215	TYR	CB-CG-CD2	5.67	129.30	120.80
5	Y	92	ALA	N-CA-CB	-5.67	101.71	110.04
1	A	51	PRO	N-CA-C	5.67	124.14	112.47
6	K	295	ARG	NE-CZ-NH1	-5.67	115.83	121.50
5	M	139	SER	CA-C-N	5.67	128.34	120.29
5	M	139	SER	C-N-CA	5.67	128.34	120.29
6	V	285	PHE	CB-CG-CD1	-5.67	111.07	120.70
6	V	593	GLN	CB-CA-C	5.67	120.93	111.30
2	B	345	PRO	N-CA-CB	5.67	109.20	103.25
6	Q	248	GLU	CA-CB-CG	5.67	125.43	114.10
6	W	163	LEU	N-CA-C	5.67	117.91	111.11
6	X	621	SER	O-C-N	5.67	128.12	122.12
5	Y	201	HIS	CE1-NE2-CD2	-5.67	103.33	109.00
3	C	22	VAL	CA-CB-CG1	5.66	120.03	110.40
3	C	267	THR	N-CA-C	5.66	118.18	111.33
6	J	121	ALA	N-CA-CB	5.66	118.38	109.94
5	L	15	ARG	O-C-N	5.66	129.24	122.27
5	R	163	GLY	O-C-N	5.66	130.06	122.70
5	S	124	ASP	N-CA-C	5.66	122.86	110.80
5	T	171	HIS	CE1-NE2-CD2	-5.66	103.34	109.00
6	U	538	ALA	O-C-N	5.66	127.90	122.07
5	N	3	LEU	N-CA-CB	-5.66	101.28	109.83
6	V	36	LEU	N-CA-C	5.66	118.13	110.88
6	W	118	TYR	N-CA-C	5.66	119.47	109.96
2	B	1188	ILE	O-C-N	5.66	129.79	122.77
4	D	332	PRO	N-CA-CB	5.66	109.50	103.39
6	Q	634	LYS	O-C-N	5.66	127.90	122.07
5	T	246	THR	O-C-N	5.66	130.59	123.12
6	U	459	LEU	CA-C-N	-5.66	113.20	122.26
6	U	459	LEU	C-N-CA	-5.66	113.20	122.26
2	B	1092	ILE	CB-CG1-CD1	5.66	125.69	113.80
3	C	38	SER	CA-C-N	5.66	126.91	119.84
3	C	38	SER	C-N-CA	5.66	126.91	119.84
4	E	185	LEU	O-C-N	5.66	128.12	122.12
6	J	412	ARG	N-CA-CB	5.66	120.22	111.39
6	J	569	ALA	CA-C-O	-5.66	114.42	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	K	125	ASP	CA-CB-CG	5.66	118.26	112.60
6	U	342	ASN	N-CA-C	5.66	118.64	108.17
6	X	346	ASP	N-CA-C	5.66	117.74	108.52
2	B	1136	ALA	N-CA-CB	-5.66	100.67	110.17
6	I	348	VAL	CG1-CB-CG2	-5.66	98.36	110.80
6	J	321	THR	N-CA-C	5.66	120.84	113.88
6	K	489	VAL	CA-C-N	5.66	128.88	120.90
6	K	489	VAL	C-N-CA	5.66	128.88	120.90
3	C	300	MET	N-CA-C	5.66	117.44	111.28
5	L	4	HIS	CE1-NE2-CD2	-5.66	103.34	109.00
6	O	16	ASP	O-C-N	5.66	130.29	123.16
6	P	311	ASN	CA-CB-CG	5.66	118.25	112.60
5	T	168	PRO	N-CA-C	5.66	122.01	113.81
6	V	248	GLU	CB-CA-C	5.66	119.22	109.15
4	E	257	ALA	CB-CA-C	5.65	118.30	109.42
5	R	90	GLN	CG-CD-OE1	-5.65	109.49	120.80
1	A	1158	ASP	CA-C-O	-5.65	113.97	119.51
2	B	200	LEU	CD1-CG-CD2	-5.65	98.36	110.80
4	E	172	ALA	CA-C-O	5.65	126.76	120.82
5	F	214	ARG	NE-CZ-NH2	5.65	124.29	119.20
5	G	4	HIS	CG-ND1-CE1	-5.65	99.69	109.30
6	I	405	ILE	CA-CB-CG1	5.65	120.01	110.40
6	J	105	PRO	N-CA-C	5.65	124.11	112.47
5	L	81	SER	N-CA-C	5.65	117.44	111.28
6	U	428	ARG	NE-CZ-NH1	-5.65	115.85	121.50
6	V	15	GLY	N-CA-C	5.65	121.44	112.06
6	V	538	ALA	O-C-N	5.65	128.19	122.09
6	W	579	ASN	OD1-CG-ND2	-5.65	116.95	122.60
1	A	856	ASP	CA-CB-CG	5.65	118.25	112.60
2	B	621	TRP	CB-CA-C	5.65	121.30	110.17
2	B	800	ILE	CB-CA-C	5.65	119.77	112.14
3	C	92	ASN	CA-C-N	5.65	128.12	120.38
3	C	92	ASN	C-N-CA	5.65	128.12	120.38
5	F	186	LEU	N-CA-C	5.65	118.86	108.58
6	I	248	GLU	N-CA-C	5.65	121.05	114.04
6	P	492	ASN	CA-CB-CG	5.65	118.25	112.60
6	Q	593	GLN	CB-CA-C	5.65	120.91	111.30
5	S	186	LEU	N-CA-C	5.65	118.86	108.58
6	U	516	LYS	CA-C-O	-5.65	114.56	120.55
6	V	492	ASN	CA-CB-CG	5.65	118.25	112.60
6	W	511	SER	N-CA-CB	5.65	118.53	110.06
6	X	258	THR	N-CA-C	-5.65	104.13	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	X	348	VAL	CG1-CB-CG2	-5.65	98.37	110.80
1	A	631	VAL	N-CA-C	5.65	115.78	110.30
1	A	1122	ARG	O-C-N	5.65	130.45	122.20
2	B	470	LEU	N-CA-C	5.65	120.59	113.25
4	E	230	ASN	CB-CG-ND2	-5.65	107.93	116.40
5	G	166	LYS	CA-CB-CG	5.65	125.40	114.10
5	H	161	LEU	CA-C-N	5.65	131.93	123.23
5	H	161	LEU	C-N-CA	5.65	131.93	123.23
5	M	3	LEU	N-CA-CB	-5.65	101.05	109.69
6	O	506	ALA	CA-C-O	-5.65	112.43	120.51
6	U	346	ASP	N-CA-C	5.65	117.73	108.52
6	V	465	THR	CA-CB-OG1	5.65	118.07	109.60
6	X	307	ILE	CA-C-O	5.65	127.84	120.78
2	B	316	THR	CB-CA-C	5.65	120.41	110.36
3	C	498	THR	CA-CB-CG2	5.65	120.10	110.50
3	C	774	LEU	N-CA-C	5.65	120.28	113.17
3	C	1090	PRO	N-CA-C	5.65	124.11	112.47
6	I	577	VAL	CA-CB-CG1	5.65	120.00	110.40
5	S	26	THR	CA-CB-CG2	5.65	120.10	110.50
5	S	38	ALA	N-CA-C	5.65	117.83	110.43
5	T	81	SER	N-CA-C	5.65	117.44	111.28
5	T	152	HIS	CG-CD2-NE2	5.65	112.85	107.20
6	X	321	THR	N-CA-C	5.65	120.83	113.88
5	Y	38	ALA	N-CA-C	5.65	117.83	110.43
1	A	1100	PHE	CA-C-O	-5.65	114.73	121.11
3	C	1086	HIS	CG-CD2-NE2	5.65	112.85	107.20
5	H	171	HIS	CA-C-O	-5.65	112.42	120.16
6	K	517	LEU	N-CA-CB	-5.65	101.82	110.01
5	N	143	CYS	CA-C-O	5.65	127.28	121.07
5	N	223	THR	CA-CB-CG2	5.65	120.10	110.50
6	O	609	ARG	NE-CZ-NH2	5.65	124.28	119.20
1	A	430	HIS	ND1-CE1-NE2	5.64	114.04	108.40
1	A	1009	ASN	N-CA-C	5.64	118.30	108.76
5	F	165	PHE	N-CA-C	5.64	122.82	110.80
6	O	123	ALA	CA-C-O	-5.64	114.42	121.02
6	Q	124	GLY	O-C-N	5.64	130.04	122.70
6	Q	215	TYR	CB-CG-CD2	5.64	129.27	120.80
6	U	15	GLY	N-CA-C	5.64	121.43	112.06
6	V	459	LEU	N-CA-CB	-5.64	103.01	111.25
6	X	16	ASP	O-C-N	5.64	130.27	123.16
1	A	441	SER	CA-CB-OG	5.64	122.39	111.10
2	B	295	SER	O-C-N	5.64	127.90	122.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	845	PHE	N-CA-C	5.64	121.16	113.37
2	B	1092	ILE	O-C-N	5.64	129.04	123.00
3	C	947	ARG	CA-C-O	5.64	126.40	120.36
6	I	105	PRO	N-CA-C	5.64	124.09	112.47
6	I	243	ASN	OD1-CG-ND2	-5.64	116.96	122.60
5	N	5	MET	CG-SD-CE	-5.64	88.49	100.90
6	P	297	ALA	CB-CA-C	5.64	121.65	110.42
6	Q	295	ARG	NE-CZ-NH1	-5.64	115.86	121.50
6	W	292	ARG	CD-NE-CZ	5.64	132.30	124.40
2	B	801	ARG	O-C-N	5.64	128.10	122.12
5	F	199	ASP	N-CA-CB	5.64	120.02	110.49
6	I	270	ASP	N-CA-C	5.64	119.35	111.90
2	B	1000	ALA	O-C-N	-5.64	115.09	122.59
5	F	104	LEU	N-CA-C	5.64	118.80	107.41
6	J	484	ILE	N-CA-CB	5.64	119.01	111.90
3	C	706	ALA	CA-C-O	-5.64	114.87	120.90
6	O	419	MET	N-CA-C	5.64	117.27	109.15
6	P	481	VAL	CB-CA-C	5.64	119.50	110.82
6	Q	267	ALA	O-C-N	5.64	128.10	122.12
2	B	455	GLU	N-CA-C	5.64	117.88	111.11
2	B	667	ASN	CB-CA-C	5.64	121.64	110.42
2	B	835	HIS	CA-C-N	5.64	127.77	120.44
2	B	835	HIS	C-N-CA	5.64	127.77	120.44
3	C	276	THR	N-CA-C	5.64	120.16	112.04
3	C	528	PHE	N-CA-CB	5.64	120.02	110.49
4	D	81	GLY	N-CA-C	5.64	118.41	111.93
4	E	168	ALA	N-CA-C	5.64	122.81	110.80
5	G	246	THR	O-C-N	5.64	130.56	123.12
6	K	561	ASP	N-CA-C	5.64	122.81	110.80
5	L	161	LEU	CA-C-O	5.64	127.93	118.91
6	O	517	LEU	N-CA-CB	-5.64	101.84	110.01
6	O	539	ILE	N-CA-C	5.64	118.14	111.09
6	P	613	LEU	N-CA-C	5.64	122.81	110.80
6	U	593	GLN	CB-CA-C	5.64	120.88	111.30
6	X	217	ALA	N-CA-C	5.64	122.81	110.80
6	X	493	GLN	CA-C-N	-5.64	112.92	122.67
6	X	493	GLN	C-N-CA	-5.64	112.92	122.67
3	C	134	GLU	CB-CG-CD	5.63	122.18	112.60
3	C	663	GLN	CB-CG-CD	5.63	122.18	112.60
4	D	42	SER	N-CA-C	5.63	117.42	111.28
4	E	256	ALA	CA-C-N	5.63	128.49	120.49
4	E	256	ALA	C-N-CA	5.63	128.49	120.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	K	394	ILE	N-CA-CB	5.63	118.08	111.66
6	K	414	GLN	CG-CD-OE1	5.63	132.07	120.80
6	X	377	GLN	OE1-CD-NE2	-5.63	116.97	122.60
6	O	267	ALA	O-C-N	5.63	127.95	122.09
6	O	298	PHE	CE1-CZ-CE2	5.63	130.14	120.00
6	X	262	ALA	N-CA-C	5.63	117.10	111.07
1	A	466	ASP	O-C-N	5.63	130.23	123.36
1	A	930	TRP	N-CA-CB	-5.63	102.21	110.49
2	B	229	TYR	CA-C-O	5.63	126.48	119.78
2	B	617	HIS	CE1-NE2-CD2	-5.63	103.37	109.00
3	C	92	ASN	CA-CB-CG	5.63	118.23	112.60
3	C	652	GLN	CA-C-N	5.63	125.81	119.90
3	C	652	GLN	C-N-CA	5.63	125.81	119.90
4	D	36	PRO	N-CA-C	5.63	124.07	112.47
4	E	219	LEU	CA-C-N	5.63	128.29	120.29
4	E	219	LEU	C-N-CA	5.63	128.29	120.29
6	I	272	ASP	CB-CA-C	5.63	121.63	110.42
6	J	537	SER	O-C-N	-5.63	115.07	122.39
6	K	243	ASN	OD1-CG-ND2	-5.63	116.97	122.60
5	L	250	HIS	CA-CB-CG	5.63	119.43	113.80
3	C	727	ARG	NE-CZ-NH2	5.63	124.27	119.20
5	M	248	ALA	O-C-N	5.63	129.80	123.27
6	P	23	THR	O-C-N	5.63	130.16	123.24
6	W	459	LEU	CA-C-N	-5.63	113.25	122.26
6	W	459	LEU	C-N-CA	-5.63	113.25	122.26
3	C	1076	VAL	CA-C-O	-5.63	113.75	120.78
5	F	160	ILE	N-CA-CB	5.63	120.52	111.23
6	I	459	LEU	CA-C-N	-5.63	113.25	122.26
6	I	459	LEU	C-N-CA	-5.63	113.25	122.26
5	N	45	ARG	CA-C-O	-5.63	112.46	120.51
6	W	33	ALA	CA-C-O	5.63	127.29	120.99
6	W	57	THR	N-CA-C	5.63	122.79	110.80
6	W	333	PRO	N-CD-CG	5.63	111.64	103.20
2	B	1067	VAL	O-C-N	5.63	127.75	121.90
3	C	700	TRP	CA-C-O	5.63	126.71	120.63
6	J	272	ASP	CB-CA-C	5.63	121.62	110.42
6	J	284	VAL	O-C-N	5.63	127.75	121.90
6	J	425	THR	N-CA-C	5.63	122.78	110.80
5	N	161	LEU	CA-C-N	5.63	131.90	123.23
5	N	161	LEU	C-N-CA	5.63	131.90	123.23
6	P	92	TRP	CG-CD2-CE3	-5.63	128.27	133.90
6	Q	16	ASP	O-C-N	5.63	130.25	123.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	Q	321	THR	N-CA-C	5.63	120.80	113.88
6	V	389	ALA	CA-C-N	5.63	128.09	120.38
6	V	389	ALA	C-N-CA	5.63	128.09	120.38
6	Q	405	ILE	CA-CB-CG1	5.62	119.96	110.40
1	A	432	PHE	N-CA-CB	-5.62	101.23	110.68
3	C	672	SER	N-CA-C	5.62	122.78	110.80
3	C	1148	SER	N-CA-CB	5.62	120.10	110.77
6	J	194	LEU	O-C-N	5.62	127.09	121.30
6	K	242	PHE	CB-CG-CD1	5.62	130.26	120.70
6	K	469	VAL	CB-CA-C	-5.62	104.67	112.04
6	Q	352	ASP	O-C-N	5.62	131.51	122.96
6	X	516	LYS	CA-C-O	-5.62	114.59	120.55
3	C	125	ARG	CA-C-O	-5.62	114.83	120.96
5	H	116	ASP	CA-CB-CG	5.62	118.22	112.60
6	J	356	THR	O-C-N	5.62	130.07	122.59
5	M	141	THR	OG1-CB-CG2	5.62	120.54	109.30
6	P	122	THR	CA-CB-OG1	5.62	118.03	109.60
6	U	499	ALA	N-CA-C	5.62	118.13	111.33
1	A	178	ILE	CA-CB-CG2	5.62	120.05	110.50
1	A	197	HIS	ND1-CG-CD2	5.62	111.72	106.10
4	D	309	SER	CA-C-O	5.62	127.56	120.65
6	W	15	GLY	N-CA-C	5.62	121.39	112.06
6	W	484	ILE	N-CA-CB	5.62	118.98	111.90
6	X	590	VAL	N-CA-C	5.62	120.00	113.42
5	Y	36	ASP	N-CA-CB	-5.62	102.98	110.57
1	A	676	ARG	CA-C-O	5.62	126.91	120.90
6	I	396	VAL	CA-CB-CG1	5.62	119.95	110.40
6	I	593	GLN	N-CA-C	5.62	117.88	107.99
6	K	572	ALA	N-CA-C	5.62	118.34	111.82
5	M	4	HIS	CG-ND1-CE1	-5.62	99.75	109.30
6	O	506	ALA	O-C-N	5.62	130.06	122.59
5	R	189	CYS	N-CA-C	5.62	116.78	109.64
5	S	45	ARG	NE-CZ-NH1	-5.62	115.88	121.50
6	V	447	SER	O-C-N	5.62	126.41	121.18
6	X	163	LEU	N-CA-C	5.62	117.85	111.11
4	E	210	TRP	CG-CD1-NE1	5.62	117.50	110.20
4	E	263	GLN	CA-CB-CG	5.62	125.33	114.10
5	H	12	ALA	N-CA-CB	-5.62	101.86	110.12
6	O	269	LYS	CA-C-N	5.62	130.54	122.40
6	O	269	LYS	C-N-CA	5.62	130.54	122.40
6	I	598	SER	CA-CB-OG	5.62	122.33	111.10
6	I	609	ARG	NE-CZ-NH2	5.62	124.25	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	O	179	ALA	CA-C-O	-5.62	114.77	121.11
6	P	593	GLN	N-CA-C	5.62	117.87	107.99
6	Q	348	VAL	CG1-CB-CG2	-5.62	98.44	110.80
6	X	252	LEU	O-C-N	5.62	127.85	122.07
1	A	480	ARG	NE-CZ-NH1	-5.61	115.89	121.50
1	A	789	ARG	NE-CZ-NH2	5.61	124.25	119.20
1	A	1284	TYR	N-CA-CB	-5.61	100.30	110.23
5	H	5	MET	CG-SD-CE	-5.61	88.55	100.90
5	H	74	GLN	OE1-CD-NE2	-5.61	116.99	122.60
6	I	140	VAL	O-C-N	-5.61	115.90	121.96
6	J	495	SER	O-C-N	5.61	128.07	122.12
5	L	12	ALA	O-C-N	5.61	128.07	122.12
5	L	219	HIS	CG-ND1-CE1	-5.61	99.76	109.30
6	W	121	ALA	N-CA-CB	5.61	118.30	109.94
1	A	775	ARG	NH1-CZ-NH2	5.61	126.59	119.30
2	B	343	ALA	N-CA-C	5.61	118.16	111.71
2	B	705	ILE	O-C-N	5.61	127.31	121.87
5	F	67	ASP	N-CA-C	5.61	117.40	111.28
6	O	644	LEU	CB-CG-CD2	5.61	127.53	110.70
1	A	850	LEU	N-CA-C	5.61	117.98	110.35
1	A	1274	ALA	N-CA-C	5.61	117.87	107.99
5	F	273	GLU	N-CA-C	5.61	117.14	110.07
6	J	456	ASN	N-CA-C	5.61	119.40	109.58
6	V	639	ASP	CA-CB-CG	5.61	118.21	112.60
6	X	285	PHE	CA-C-O	-5.61	114.01	120.24
1	A	13	LEU	O-C-N	5.61	129.34	123.06
2	B	990	ASN	CA-CB-CG	5.61	118.21	112.60
6	J	15	GLY	N-CA-C	5.61	121.37	112.06
6	K	377	GLN	OE1-CD-NE2	-5.61	116.99	122.60
5	L	116	ASP	CA-CB-CG	5.61	118.21	112.60
5	L	124	ASP	N-CA-C	5.61	122.75	110.80
6	U	639	ASP	CA-CB-CG	5.61	118.21	112.60
6	V	105	PRO	N-CA-C	5.61	124.02	112.47
1	A	1000	TYR	N-CA-C	5.61	117.08	110.97
2	B	331	ARG	NE-CZ-NH2	5.61	124.25	119.20
6	J	593	GLN	OE1-CD-NE2	-5.61	116.99	122.60
6	O	242	PHE	CB-CG-CD1	5.61	130.23	120.70
6	V	363	ASN	CA-CB-CG	5.61	118.21	112.60
6	W	634	LYS	O-C-N	5.61	127.84	122.07
1	A	66	ASN	CA-CB-CG	5.61	118.21	112.60
1	A	178	ILE	CB-CA-C	5.61	117.74	111.80
2	B	959	ARG	N-CA-C	5.61	117.39	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	270	ASP	N-CA-C	5.61	119.30	111.90
6	K	596	MET	N-CA-C	5.61	118.16	111.71
5	L	168	PRO	N-CA-C	5.61	121.94	113.81
5	S	198	HIS	ND1-CG-CD2	5.61	111.70	106.10
6	V	330	GLN	CB-CG-CD	5.61	122.13	112.60
1	A	328	PRO	N-CA-CB	5.60	108.29	103.36
1	A	492	ALA	CA-C-O	5.60	126.90	120.90
1	A	968	ALA	CB-CA-C	-5.60	98.67	109.37
3	C	35	SER	O-C-N	5.60	129.77	123.27
3	C	734	THR	N-CA-C	5.60	118.11	111.33
5	F	59	HIS	ND1-CE1-NE2	5.60	114.00	108.40
6	P	411	VAL	CA-C-O	-5.60	115.22	121.05
6	V	338	VAL	CA-C-N	-5.60	114.05	122.01
6	V	338	VAL	C-N-CA	-5.60	114.05	122.01
6	V	593	GLN	OE1-CD-NE2	-5.60	117.00	122.60
2	B	1083	TYR	N-CA-C	5.60	118.60	109.24
6	K	604	VAL	O-C-N	5.60	127.38	121.89
6	W	242	PHE	CB-CG-CD1	5.60	130.22	120.70
6	W	512	ASN	OD1-CG-ND2	-5.60	117.00	122.60
1	A	1035	LEU	O-C-N	5.60	129.74	123.19
4	E	359	TYR	CA-C-N	5.60	127.78	120.28
4	E	359	TYR	C-N-CA	5.60	127.78	120.28
5	F	10	ALA	N-CA-CB	5.60	118.13	110.01
6	I	90	ASN	OD1-CG-ND2	-5.60	117.00	122.60
6	J	311	ASN	CA-CB-CG	5.60	118.20	112.60
6	K	291	PRO	CA-C-O	-5.60	115.16	121.43
1	A	34	LEU	N-CA-C	5.60	118.15	111.71
1	A	1203	VAL	N-CA-C	5.60	120.99	109.34
2	B	921	ASP	N-CA-C	5.60	122.72	110.80
6	I	115	THR	O-C-N	-5.60	116.64	123.30
6	J	24	SER	O-C-N	5.60	128.77	122.22
6	J	390	ASN	CA-CB-CG	5.60	118.20	112.60
6	K	305	LYS	N-CA-C	5.60	122.72	110.80
6	K	419	MET	N-CA-C	5.60	117.21	109.15
5	N	145	ARG	N-CA-CB	-5.60	102.45	110.57
6	P	239	ALA	N-CA-C	5.60	118.92	111.75
5	R	219	HIS	ND1-CG-CD2	5.60	111.70	106.10
6	U	506	ALA	O-C-N	5.60	130.04	122.59
6	V	427	GLU	CA-C-O	5.60	127.08	120.70
3	C	1122	PRO	N-CA-CB	5.60	109.13	103.25
5	N	12	ALA	O-C-N	5.60	127.84	122.07
5	N	197	VAL	O-C-N	-5.60	117.21	123.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	Q	363	ASN	CA-CB-CG	5.60	118.20	112.60
6	Q	613	LEU	N-CA-C	5.60	122.72	110.80
6	U	609	ARG	NE-CZ-NH2	5.60	124.24	119.20
6	U	644	LEU	CB-CG-CD2	5.60	127.49	110.70
1	A	1262	THR	CA-CB-OG1	5.59	117.99	109.60
3	C	526	ALA	N-CA-C	5.59	117.06	111.07
4	E	365	THR	CA-CB-OG1	5.59	117.99	109.60
6	I	168	THR	OG1-CB-CG2	-5.59	98.11	109.30
6	J	576	PHE	O-C-N	5.59	127.91	122.09
5	L	10	ALA	N-CA-CB	5.59	118.12	110.01
6	O	394	ILE	N-CA-CB	5.59	118.04	111.66
5	S	211	ALA	N-CA-C	5.59	117.82	111.11
5	T	61	ASN	N-CA-C	5.59	119.64	113.21
2	B	242	ARG	CA-C-O	-5.59	115.08	121.68
2	B	580	HIS	CA-CB-CG	5.59	119.39	113.80
4	D	344	ASP	N-CA-C	5.59	119.36	112.54
6	I	430	THR	CA-CB-OG1	5.59	117.99	109.60
6	J	348	VAL	CG1-CB-CG2	-5.59	98.50	110.80
5	R	221	LEU	CD1-CG-CD2	-5.59	98.49	110.80
1	A	230	PHE	O-C-N	5.59	131.15	122.87
2	B	784	LEU	CA-C-O	-5.59	114.57	121.11
3	C	726	ARG	N-CA-C	5.59	117.82	111.11
4	E	348	THR	N-CA-C	5.59	122.71	110.80
6	J	557	PRO	CB-CA-C	5.59	120.97	112.97
6	K	70	GLN	N-CA-C	5.59	122.71	110.80
5	L	143	CYS	CA-C-O	5.59	127.22	121.07
6	O	418	ASN	OD1-CG-ND2	-5.59	117.01	122.60
6	Q	179	ALA	O-C-N	5.59	130.46	123.19
2	B	1040	ASP	CA-CB-CG	5.59	118.19	112.60
3	C	34	PRO	N-CD-CG	5.59	111.58	103.20
3	C	446	ALA	N-CA-C	5.59	118.18	109.52
3	C	748	GLN	CA-C-O	5.59	125.83	119.18
3	C	919	LEU	O-C-N	5.59	129.77	121.72
6	J	481	VAL	CB-CA-C	5.59	119.43	110.82
6	P	245	ALA	N-CA-C	5.59	118.46	110.24
5	T	186	LEU	N-CA-C	5.59	118.75	108.58
6	V	280	LEU	O-C-N	5.59	127.56	121.36
2	B	835	HIS	N-CA-CB	-5.59	100.22	109.72
4	E	195	GLN	N-CA-CB	5.59	118.33	110.12
6	J	82	PHE	CA-C-N	5.59	127.77	120.28
6	J	82	PHE	C-N-CA	5.59	127.77	120.28
6	K	165	THR	CA-CB-OG1	5.59	117.98	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	92	TRP	N-CA-C	5.59	119.41	112.59
5	R	45	ARG	NE-CZ-NH1	-5.59	115.91	121.50
6	V	193	ILE	N-CA-C	-5.59	107.37	111.90
6	X	278	THR	CA-C-N	5.59	126.83	119.84
6	X	278	THR	C-N-CA	5.59	126.83	119.84
1	A	305	GLN	N-CA-C	5.59	118.22	111.40
1	A	756	SER	CA-CB-OG	5.59	122.27	111.10
2	B	1164	VAL	CA-CB-CG1	5.59	119.90	110.40
4	D	151	SER	N-CA-C	5.59	117.73	109.69
4	D	408	GLN	OE1-CD-NE2	-5.59	117.01	122.60
4	E	207	THR	CA-CB-OG1	5.59	117.98	109.60
6	J	79	ARG	O-C-N	5.59	127.90	122.09
6	O	420	LEU	O-C-N	5.59	129.64	123.16
6	O	548	LYS	CA-CB-CG	-5.59	102.93	114.10
6	O	560	PRO	N-CA-CB	5.59	109.12	103.25
6	V	352	ASP	O-C-N	5.59	131.45	122.96
2	B	281	GLY	N-CA-C	5.58	120.60	114.40
2	B	953	GLY	N-CA-C	-5.58	100.95	112.34
2	B	299	LEU	CA-C-O	5.58	126.34	120.42
2	B	564	TRP	CD2-CE3-CZ3	-5.58	111.34	118.60
4	E	107	GLN	CB-CG-CD	5.58	122.09	112.60
6	O	270	ASP	N-CA-C	5.58	119.39	112.24
6	P	396	VAL	CA-CB-CG1	5.58	119.89	110.40
6	P	449	THR	N-CA-C	5.58	118.34	109.24
6	Q	115	THR	O-C-N	-5.58	116.66	123.30
6	Q	307	ILE	CA-C-O	5.58	127.76	120.78
6	Q	377	GLN	OE1-CD-NE2	-5.58	117.02	122.60
5	S	59	HIS	N-CA-CB	5.58	118.33	110.12
6	W	215	TYR	CB-CG-CD2	5.58	129.17	120.80
5	Y	145	ARG	N-CA-CB	-5.58	102.47	110.57
5	Y	186	LEU	N-CA-C	5.58	118.74	108.58
1	A	32	ASP	CA-CB-CG	5.58	118.18	112.60
3	C	589	LEU	N-CA-C	5.58	117.36	111.28
3	C	915	LEU	N-CA-C	5.58	118.47	107.98
6	I	489	VAL	CA-C-N	5.58	128.77	120.90
6	I	489	VAL	C-N-CA	5.58	128.77	120.90
6	J	285	PHE	CA-C-O	-5.58	114.04	120.24
5	S	200	THR	N-CA-C	5.58	118.74	108.58
6	W	340	ASP	N-CA-CB	-5.58	103.03	110.57
1	A	384	THR	CA-C-O	-5.58	115.01	121.26
1	A	795	PRO	CA-C-N	5.58	130.04	120.72
1	A	795	PRO	C-N-CA	5.58	130.04	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	608	GLN	OE1-CD-NE2	-5.58	117.02	122.60
2	B	657	GLY	N-CA-C	5.58	119.68	112.54
6	O	342	ASN	OD1-CG-ND2	5.58	128.18	122.60
6	P	561	ASP	N-CA-C	5.58	122.69	110.80
6	Q	560	PRO	N-CA-CB	5.58	109.11	103.25
1	A	191	PRO	N-CA-CB	5.58	108.20	103.35
2	B	225	PHE	N-CA-C	5.58	119.59	112.34
2	B	804	HIS	N-CA-C	5.58	118.67	109.85
3	C	998	PRO	CA-C-O	-5.58	114.62	121.31
6	I	185	SER	CA-C-N	5.58	128.01	120.65
6	I	185	SER	C-N-CA	5.58	128.01	120.65
6	J	154	ARG	O-C-N	5.58	130.16	122.46
6	J	575	MET	O-C-N	5.58	127.89	122.09
6	K	24	SER	O-C-N	5.58	128.56	122.20
5	R	5	MET	CG-SD-CE	-5.58	88.63	100.90
6	U	575	MET	N-CA-C	5.58	117.80	111.11
6	V	317	ARG	NH1-CZ-NH2	-5.58	112.05	119.30
3	C	217	LYS	CG-CD-CE	5.58	124.13	111.30
3	C	361	SER	N-CA-C	5.58	120.57	111.37
5	G	10	ALA	N-CA-CB	5.58	118.32	110.12
6	J	594	SER	CA-C-N	5.58	126.29	119.99
6	J	594	SER	C-N-CA	5.58	126.29	119.99
5	N	26	THR	CA-CB-CG2	5.58	119.98	110.50
1	A	392	PRO	O-C-N	5.58	130.07	122.99
1	A	784	THR	O-C-N	5.58	128.51	122.15
1	A	1099	GLN	O-C-N	5.58	130.16	123.13
2	B	1167	LEU	N-CA-C	5.58	118.89	111.75
3	C	810	ALA	N-CA-C	5.58	118.57	109.59
3	C	901	ILE	CA-C-O	5.58	127.08	121.17
4	E	411	PHE	O-C-N	5.58	128.03	122.12
6	I	33	ALA	CA-C-O	5.58	127.23	120.99
6	Q	105	PRO	N-CA-C	5.58	123.95	112.47
6	U	121	ALA	N-CA-CB	5.58	118.25	109.94
6	U	338	VAL	CA-C-N	-5.58	114.09	122.01
6	U	338	VAL	C-N-CA	-5.58	114.09	122.01
1	A	199	PRO	N-CA-CB	5.57	109.10	103.25
2	B	505	THR	CA-CB-OG1	5.57	117.96	109.60
6	I	635	GLN	N-CA-C	5.57	117.82	111.02
6	K	469	VAL	N-CA-CB	5.57	117.44	110.47
6	K	573	ALA	CA-C-O	5.57	126.86	120.90
6	X	342	ASN	OD1-CG-ND2	5.57	128.17	122.60
5	Y	192	THR	CA-CB-CG2	5.57	119.97	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	1054	VAL	N-CA-C	5.57	119.84	112.04
3	C	373	ARG	CA-CB-CG	5.57	125.24	114.10
3	C	614	GLN	N-CA-C	5.57	119.82	113.19
5	G	219	HIS	CG-ND1-CE1	-5.57	99.83	109.30
6	K	538	ALA	O-C-N	5.57	127.81	122.07
6	Q	163	LEU	N-CA-C	5.57	117.80	111.11
5	R	81	SER	N-CA-C	5.57	117.35	111.28
6	V	342	ASN	N-CA-C	5.57	118.48	108.17
6	X	66	ASP	O-C-N	5.57	128.74	122.22
1	A	453	PRO	CA-C-O	-5.57	112.48	120.56
3	C	1061	ASP	CA-CB-CG	5.57	118.17	112.60
4	D	377	ASN	CA-CB-CG	5.57	118.17	112.60
5	F	248	ALA	O-C-N	5.57	129.73	123.27
6	K	122	THR	CA-CB-OG1	5.57	117.95	109.60
6	K	342	ASN	OD1-CG-ND2	5.57	128.17	122.60
5	M	90	GLN	CG-CD-OE1	-5.57	109.66	120.80
5	M	183	ASP	CA-CB-CG	5.57	118.17	112.60
6	P	272	ASP	CB-CA-C	5.57	121.51	110.42
6	Q	533	ASP	OD1-CG-OD2	-5.57	109.53	122.90
6	U	244	ALA	N-CA-C	5.57	118.71	109.46
6	V	70	GLN	CB-CG-CD	5.57	122.07	112.60
6	V	555	ALA	CA-C-O	-5.57	115.64	121.99
3	C	559	HIS	N-CA-C	5.57	117.54	108.63
4	D	389	PHE	CA-CB-CG	-5.57	108.23	113.80
3	C	394	LEU	CA-C-N	5.57	128.06	120.54
3	C	394	LEU	C-N-CA	5.57	128.06	120.54
3	C	489	ASP	N-CA-C	5.57	119.10	108.97
3	C	1189	THR	CA-C-O	-5.57	115.07	121.19
4	D	213	ALA	O-C-N	5.57	127.80	122.07
4	D	226	SER	CB-CA-C	5.57	118.98	109.24
5	F	5	MET	CG-SD-CE	-5.57	88.65	100.90
6	I	575	MET	O-C-N	5.57	127.88	122.09
5	L	247	PHE	CA-C-N	5.57	131.48	122.29
5	L	247	PHE	C-N-CA	5.57	131.48	122.29
6	O	492	ASN	CA-CB-CG	5.57	118.17	112.60
6	O	499	ALA	N-CA-C	5.57	118.07	111.33
6	Q	191	LYS	N-CA-C	5.57	119.92	113.18
6	X	347	SER	CB-CA-C	-5.57	99.28	110.30
2	B	1174	ASP	CB-CA-C	5.57	117.59	110.13
5	F	200	THR	N-CA-C	5.57	118.71	108.58
6	I	459	LEU	CA-CB-CG	5.57	135.78	116.30
6	O	122	THR	CA-CB-OG1	5.57	117.95	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	514	LEU	N-CA-C	5.57	118.88	111.75
6	X	598	SER	CB-CA-C	5.57	120.03	110.79
1	A	1061	LEU	N-CA-C	5.56	122.65	110.80
4	E	12	ASN	O-C-N	5.56	129.26	122.75
6	Q	243	ASN	OD1-CG-ND2	-5.56	117.04	122.60
1	A	710	ILE	O-C-N	5.56	129.61	123.10
1	A	893	ALA	N-CA-C	5.56	118.36	107.57
1	A	963	ARG	NH1-CZ-NH2	-5.56	112.07	119.30
2	B	303	GLN	O-C-N	5.56	128.73	122.22
3	C	679	TRP	CE2-CD2-CE3	5.56	124.36	118.80
3	C	682	GLN	O-C-N	5.56	126.97	121.57
3	C	1028	GLU	N-CA-C	5.56	119.32	109.58
6	K	105	PRO	N-CA-C	5.56	123.93	112.47
6	P	374	VAL	CA-C-O	-5.56	114.61	120.39
6	Q	549	LEU	CB-CA-C	5.56	120.73	111.83
6	U	561	ASP	N-CA-C	5.56	122.65	110.80
6	W	469	VAL	CB-CA-C	-5.56	104.75	112.04
5	Y	45	ARG	NE-CZ-NH1	-5.56	115.94	121.50
5	F	246	THR	O-C-N	5.56	130.46	123.12
6	I	347	SER	CB-CA-C	-5.56	99.29	110.30
6	J	503	ALA	CA-C-N	5.56	132.16	121.54
6	J	503	ALA	C-N-CA	5.56	132.16	121.54
6	Q	71	TYR	CA-C-N	5.56	129.00	120.82
6	Q	71	TYR	C-N-CA	5.56	129.00	120.82
6	U	634	LYS	O-C-N	5.56	127.80	122.07
5	Y	48	ILE	CB-CG1-CD1	5.56	125.48	113.80
1	A	40	HIS	N-CA-C	5.56	122.64	110.80
1	A	974	GLN	O-C-N	5.56	128.01	122.12
1	A	1051	ARG	NH1-CZ-NH2	-5.56	112.07	119.30
2	B	714	SER	N-CA-CB	5.56	118.13	109.85
6	K	532	ASP	CA-CB-CG	5.56	118.16	112.60
5	N	90	GLN	CG-CD-OE1	-5.56	109.68	120.80
6	X	270	ASP	CA-CB-CG	5.56	118.16	112.60
5	Y	171	HIS	CE1-NE2-CD2	-5.56	103.44	109.00
2	B	384	MET	CB-CG-SD	-5.56	96.03	112.70
2	B	437	ARG	N-CA-C	5.56	122.09	109.81
3	C	900	GLU	N-CA-C	5.56	117.02	111.07
4	D	245	GLN	OE1-CD-NE2	-5.56	117.04	122.60
4	D	290	VAL	CA-C-N	5.56	127.73	120.28
4	D	290	VAL	C-N-CA	5.56	127.73	120.28
5	F	195	LEU	O-C-N	5.56	129.71	122.87
5	M	143	CYS	CA-C-O	5.56	127.18	121.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	O	67	ARG	O-C-N	5.56	129.98	122.59
6	O	84	LYS	O-C-N	5.56	128.01	122.12
6	P	258	THR	N-CA-C	-5.56	104.24	111.02
6	W	342	ASN	N-CA-C	5.56	118.45	108.17
5	Y	141	THR	OG1-CB-CG2	5.56	120.41	109.30
5	Y	161	LEU	CA-C-N	5.56	131.79	123.23
5	Y	161	LEU	C-N-CA	5.56	131.79	123.23
3	C	155	ASN	N-CA-C	5.56	117.08	110.19
4	D	76	LEU	CD1-CG-CD2	5.56	123.02	110.80
5	G	223	THR	CA-CB-CG2	5.56	119.94	110.50
6	O	430	THR	CA-C-O	5.56	126.63	120.63
6	O	514	LEU	N-CA-C	5.56	118.86	111.75
2	B	340	LEU	N-CA-C	5.55	117.78	111.11
2	B	402	TYR	CB-CA-C	5.55	119.70	110.81
2	B	442	CYS	O-C-N	5.55	126.38	121.32
2	B	571	LEU	CA-C-N	5.55	127.66	120.44
2	B	571	LEU	C-N-CA	5.55	127.66	120.44
3	C	43	ALA	O-C-N	5.55	128.48	122.15
3	C	753	THR	N-CA-C	5.55	120.48	111.37
4	D	347	ILE	O-C-N	5.55	127.80	122.97
6	I	305	LYS	N-CA-C	5.55	122.63	110.80
5	M	223	THR	CA-CB-CG2	5.55	119.94	110.50
6	Q	270	ASP	N-CA-C	5.55	119.23	111.90
6	Q	305	LYS	N-CA-C	5.55	122.63	110.80
5	S	40	TYR	N-CA-C	5.55	120.20	107.48
6	V	513	HIS	N-CA-C	5.55	117.01	111.07
1	A	112	TYR	CG-CD1-CE1	-5.55	112.87	121.20
1	A	462	ASN	CA-C-N	5.55	132.15	121.54
1	A	462	ASN	C-N-CA	5.55	132.15	121.54
1	A	627	PHE	O-C-N	5.55	127.79	122.07
2	B	732	VAL	O-C-N	5.55	129.51	122.57
3	C	1001	ALA	N-CA-C	5.55	122.08	109.81
5	F	220	ASP	O-C-N	5.55	128.53	122.20
6	P	248	GLU	CB-CA-C	5.55	119.03	109.15
6	W	115	THR	O-C-N	-5.55	116.69	123.30
6	X	216	PRO	CA-N-CD	-5.55	104.23	112.00
1	A	590	THR	OG1-CB-CG2	5.55	120.40	109.30
2	B	726	ARG	CA-CB-CG	5.55	125.20	114.10
5	G	182	HIS	CB-CA-C	5.55	120.38	111.66
5	L	38	ALA	N-CA-C	5.55	117.70	110.43
5	M	253	CYS	N-CA-C	5.55	117.01	111.07
6	P	428	ARG	NE-CZ-NH1	-5.55	115.95	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	W	193	ILE	CA-C-N	5.55	128.10	120.39
6	W	193	ILE	C-N-CA	5.55	128.10	120.39
3	C	1000	ALA	N-CA-C	5.55	122.62	110.80
3	C	1147	PHE	CB-CG-CD2	-5.55	111.27	120.70
5	F	152	HIS	CG-CD2-NE2	5.55	112.75	107.20
5	G	26	THR	CA-CB-CG2	5.55	119.93	110.50
6	J	342	ASN	OD1-CG-ND2	5.55	128.15	122.60
6	K	557	PRO	CB-CA-C	5.55	120.91	112.97
6	O	202	THR	CA-CB-OG1	5.55	117.92	109.60
6	P	160	GLN	CB-CA-C	5.55	119.69	110.81
6	Q	447	SER	O-C-N	5.55	126.34	121.18
6	Q	575	MET	N-CA-C	5.55	117.77	111.11
5	R	92	ALA	N-CA-CB	-5.55	101.88	110.04
6	U	338	VAL	O-C-N	5.55	130.15	122.88
6	W	217	ALA	N-CA-C	5.55	122.62	110.80
6	W	434	ILE	CA-C-O	-5.55	112.51	119.95
6	W	537	SER	CA-C-N	5.55	127.65	120.44
6	W	537	SER	C-N-CA	5.55	127.65	120.44
1	A	21	THR	CA-CB-OG1	5.55	117.92	109.60
5	F	168	PRO	N-CA-C	5.55	121.86	113.81
5	M	26	THR	CA-CB-CG2	5.55	119.93	110.50
6	P	330	GLN	N-CA-CB	-5.55	103.87	112.30
1	A	1054	SER	N-CA-C	5.55	119.08	111.54
3	C	352	THR	CB-CA-C	5.55	121.46	110.42
6	I	262	ALA	CA-C-O	-5.55	115.00	120.82
6	J	147	ARG	NH1-CZ-NH2	5.55	126.51	119.30
5	N	256	ASP	CA-CB-CG	-5.55	107.05	112.60
6	O	193	ILE	CB-CA-C	5.55	116.71	111.44
6	O	537	SER	CA-C-N	5.55	127.65	120.44
6	O	537	SER	C-N-CA	5.55	127.65	120.44
6	P	92	TRP	CE2-CD2-CE3	5.55	124.35	118.80
6	P	347	SER	CB-CA-C	-5.55	99.32	110.30
6	U	348	VAL	CG1-CB-CG2	-5.55	98.60	110.80
6	W	122	THR	CA-CB-OG1	5.55	117.92	109.60
6	X	506	ALA	CA-C-O	-5.55	112.58	120.51
6	Q	121	ALA	CB-CA-C	-5.54	101.94	110.81
6	V	267	ALA	O-C-N	5.54	127.86	122.09
2	B	305	THR	N-CA-C	5.54	117.00	111.07
3	C	978	ALA	CA-C-N	5.54	130.65	123.00
3	C	978	ALA	C-N-CA	5.54	130.65	123.00
4	D	145	MET	CA-C-N	5.54	129.14	120.82
4	D	145	MET	C-N-CA	5.54	129.14	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	E	273	HIS	ND1-CE1-NE2	5.54	113.94	108.40
5	H	26	THR	CA-CB-CG2	5.54	119.92	110.50
6	I	411	VAL	CA-C-O	-5.54	115.19	120.95
6	J	127	LEU	O-C-N	5.54	128.00	122.12
5	M	61	ASN	N-CA-C	5.54	119.58	113.21
5	N	262	CYS	O-C-N	5.54	128.00	122.12
6	P	200	CYS	N-CA-C	5.54	117.32	111.28
6	Q	216	PRO	CA-N-CD	-5.54	104.24	112.00
5	T	223	THR	CA-CB-CG2	5.54	119.92	110.50
6	U	194	LEU	O-C-N	5.54	127.01	121.30
6	X	284	VAL	CB-CA-C	5.54	119.28	112.02
4	D	369	HIS	CA-CB-CG	5.54	119.34	113.80
4	E	3	GLN	CA-C-N	5.54	132.13	121.54
4	E	3	GLN	C-N-CA	5.54	132.13	121.54
4	E	269	CYS	CA-C-O	-5.54	115.16	120.92
5	F	90	GLN	CG-CD-OE1	-5.54	109.72	120.80
5	L	92	ALA	N-CA-CB	-5.54	101.89	110.04
6	O	105	PRO	N-CA-C	5.54	123.89	112.47
5	S	192	THR	CA-CB-CG2	5.54	119.92	110.50
6	U	253	VAL	CA-CB-CG2	5.54	119.82	110.40
6	U	427	GLU	CA-C-O	5.54	127.02	120.70
6	U	529	SER	CA-C-O	-5.54	112.59	120.51
6	W	262	ALA	N-CA-C	5.54	117.00	111.07
6	X	70	GLN	CB-CG-CD	5.54	122.02	112.60
6	X	484	ILE	N-CA-CB	5.54	118.88	111.90
2	B	1179	VAL	N-CA-C	5.54	120.86	109.34
5	M	201	HIS	CE1-NE2-CD2	-5.54	103.46	109.00
6	O	255	SER	CA-C-O	-5.54	114.68	120.55
6	V	310	PHE	CA-CB-CG	5.54	119.34	113.80
5	Y	222	LEU	N-CA-C	5.54	120.04	113.28
1	A	488	ILE	CA-CB-CG2	5.54	119.92	110.50
2	B	580	HIS	ND1-CG-CD2	5.54	111.64	106.10
2	B	667	ASN	N-CA-CB	-5.54	101.13	110.49
3	C	757	VAL	CA-CB-CG1	5.54	119.81	110.40
4	D	136	TRP	N-CA-CB	-5.54	102.05	110.30
4	E	308	TRP	CZ3-CH2-CZ2	-5.54	114.30	121.50
5	G	200	THR	N-CA-C	5.54	118.66	108.58
6	J	630	LEU	O-C-N	5.54	127.78	122.07
6	K	330	GLN	N-CA-CB	-5.54	103.88	112.30
6	O	345	ILE	CA-CB-CG1	5.54	119.81	110.40
6	P	394	ILE	N-CA-CB	5.54	117.97	111.66
6	Q	165	THR	CA-CB-CG2	5.54	119.92	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	V	282	VAL	CA-CB-CG1	5.54	119.82	110.40
6	V	425	THR	N-CA-C	5.54	122.60	110.80
1	A	1021	ARG	CB-CA-C	5.54	122.00	110.32
4	D	131	ASN	N-CA-C	5.54	119.78	111.81
4	E	343	GLN	CA-C-N	5.54	127.70	120.28
4	E	343	GLN	C-N-CA	5.54	127.70	120.28
6	J	253	VAL	N-CA-C	5.54	116.93	110.62
6	J	305	LYS	N-CA-C	5.54	122.59	110.80
6	O	154	ARG	NE-CZ-NH2	5.54	124.18	119.20
6	Q	338	VAL	CA-C-N	-5.54	114.15	122.01
6	Q	338	VAL	C-N-CA	-5.54	114.15	122.01
6	U	264	SER	O-C-N	5.54	128.70	122.22
2	B	208	ASP	CA-CB-CG	5.54	118.14	112.60
3	C	385	VAL	N-CA-C	-5.54	100.42	108.17
4	D	408	GLN	CG-CD-OE1	5.54	131.87	120.80
5	G	239	GLY	O-C-N	5.54	127.31	121.77
6	I	277	ASP	N-CA-C	5.54	120.01	112.04
6	K	513	HIS	N-CA-C	5.54	116.99	111.07
6	O	338	VAL	O-C-N	5.54	130.13	122.88
6	P	390	ASN	O-C-N	5.54	127.99	122.12
6	U	193	ILE	N-CA-CB	5.54	118.48	110.68
5	Y	219	HIS	CG-ND1-CE1	-5.54	99.89	109.30
2	B	993	TRP	CZ3-CH2-CZ2	-5.53	114.31	121.50
2	B	1165	SER	CA-C-O	5.53	124.01	119.36
3	C	344	TYR	O-C-N	5.53	125.10	121.23
5	F	219	HIS	CG-ND1-CE1	-5.53	99.89	109.30
5	H	220	ASP	O-C-N	5.53	128.51	122.20
6	J	613	LEU	N-CA-C	5.53	122.59	110.80
5	L	26	THR	CA-CB-CG2	5.53	119.91	110.50
6	P	171	THR	O-C-N	5.53	127.68	121.32
6	P	371	PRO	CB-CA-C	5.53	118.90	111.71
5	S	3	LEU	N-CA-CB	-5.53	101.22	109.69
6	U	253	VAL	N-CA-C	5.53	116.93	110.62
6	U	437	ILE	O-C-N	5.53	129.69	122.94
6	V	548	LYS	N-CA-CB	-5.53	103.78	110.53
6	X	105	PRO	N-CA-C	5.53	123.87	112.47
1	A	1262	THR	O-C-N	5.53	126.16	121.84
2	B	376	LEU	O-C-N	-5.53	115.50	122.19
3	C	987	THR	OG1-CB-CG2	5.53	120.36	109.30
4	E	187	GLN	O-C-N	-5.53	116.28	122.03
5	H	157	HIS	ND1-CE1-NE2	5.53	113.93	108.40
6	I	36	LEU	N-CA-C	5.53	117.96	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	K	22	PRO	N-CA-CB	5.53	107.72	103.30
6	Q	256	SER	CA-CB-OG	5.53	122.16	111.10
6	V	258	THR	N-CA-C	-5.53	104.27	111.02
4	E	182	ILE	CA-C-O	-5.53	115.30	121.05
6	I	593	GLN	OE1-CD-NE2	-5.53	117.07	122.60
6	K	348	VAL	CG1-CB-CG2	-5.53	98.64	110.80
5	N	57	ALA	CA-C-N	5.53	125.48	119.78
5	N	57	ALA	C-N-CA	5.53	125.48	119.78
5	T	220	ASP	O-C-N	5.53	128.50	122.20
6	U	425	THR	N-CA-C	5.53	122.58	110.80
6	U	506	ALA	CA-C-O	-5.53	112.60	120.51
6	W	231	GLN	N-CA-C	5.53	120.30	113.50
6	W	419	MET	N-CA-C	5.53	117.11	109.15
3	C	1170	PRO	N-CD-CG	5.53	111.49	103.20
6	O	285	PHE	CA-C-O	-5.53	114.10	120.24
6	P	82	PHE	CA-C-N	5.53	127.69	120.28
6	P	82	PHE	C-N-CA	5.53	127.69	120.28
6	Q	149	ILE	N-CA-CB	-5.53	103.02	110.54
6	U	288	SER	O-C-N	5.53	129.52	123.22
6	V	307	ILE	CA-C-O	5.53	127.69	120.78
6	W	377	GLN	OE1-CD-NE2	-5.53	117.07	122.60
1	A	1169	LYS	CA-C-O	-5.53	114.73	120.70
3	C	682	GLN	N-CA-C	5.53	118.56	110.10
5	F	221	LEU	CD1-CG-CD2	-5.53	98.64	110.80
6	O	24	SER	O-C-N	5.53	128.50	122.20
6	P	590	VAL	N-CA-C	5.53	119.89	113.42
6	P	598	SER	CB-CA-C	5.53	119.97	110.79
6	Q	165	THR	CA-CB-OG1	5.53	117.89	109.60
5	S	67	ASP	N-CA-C	5.53	117.31	111.28
5	T	189	CYS	N-CA-C	5.53	116.66	109.64
6	U	90	ASN	OD1-CG-ND2	-5.53	117.07	122.60
2	B	718	THR	N-CA-C	5.53	118.02	111.33
3	C	266	PRO	N-CA-CB	5.53	109.05	103.25
3	C	862	GLU	CB-CG-CD	5.53	121.99	112.60
4	E	404	VAL	CA-C-O	-5.53	115.31	121.17
5	N	186	LEU	N-CA-C	5.53	118.64	108.58
6	O	79	ARG	O-C-N	5.53	127.84	122.09
6	P	283	SER	N-CA-C	5.53	118.02	111.33
5	R	116	ASP	CA-CB-CG	5.53	118.12	112.60
6	V	297	ALA	CB-CA-C	5.53	121.42	110.42
6	V	411	VAL	CG1-CB-CG2	-5.53	98.64	110.80
6	X	92	TRP	CG-CD2-CE3	-5.53	128.38	133.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	134	GLU	N-CA-C	5.52	117.38	111.36
3	C	852	THR	N-CA-C	5.52	118.23	111.82
5	H	57	ALA	CA-C-N	5.52	125.47	119.78
5	H	57	ALA	C-N-CA	5.52	125.47	119.78
6	K	10	THR	CA-CB-OG1	5.52	117.89	109.60
5	M	67	ASP	CA-CB-CG	5.52	118.12	112.60
6	O	513	HIS	N-CA-C	5.52	116.98	111.07
6	Q	505	ASP	CA-CB-CG	5.52	118.12	112.60
5	R	211	ALA	N-CA-C	5.52	117.74	111.11
6	V	412	ARG	N-CA-CB	5.52	120.01	111.39
3	C	1182	ASN	N-CA-CB	-5.52	100.64	110.14
4	D	54	TRP	N-CA-C	5.52	118.45	110.28
4	E	149	ALA	N-CA-CB	-5.52	103.00	110.67
6	I	202	THR	CA-CB-OG1	5.52	117.88	109.60
6	I	561	ASP	N-CA-C	5.52	122.56	110.80
6	J	362	THR	CA-CB-OG1	5.52	117.88	109.60
6	J	459	LEU	CA-CB-CG	5.52	135.63	116.30
6	J	639	ASP	CA-CB-CG	5.52	118.12	112.60
6	K	191	LYS	N-CA-C	5.52	119.86	113.18
6	P	390	ASN	CA-CB-CG	5.52	118.12	112.60
5	T	12	ALA	N-CA-CB	-5.52	102.00	110.01
5	Y	113	PRO	N-CA-C	5.52	119.55	110.55
6	J	261	GLN	N-CA-C	5.52	117.30	111.28
6	K	319	THR	O-C-N	5.52	129.87	123.30
6	V	168	THR	CA-CB-CG2	5.52	119.89	110.50
6	V	561	ASP	N-CA-C	5.52	122.56	110.80
2	B	1013	VAL	O-C-N	5.52	128.78	122.93
3	C	277	VAL	CA-C-O	-5.52	113.88	120.78
4	D	232	PHE	N-CA-C	5.52	117.69	109.25
6	I	217	ALA	N-CA-C	5.52	122.56	110.80
6	K	200	CYS	N-CA-C	5.52	117.30	111.28
6	K	352	ASP	O-C-N	5.52	131.35	122.96
5	N	168	PRO	N-CA-C	5.52	121.81	113.81
6	O	396	VAL	CA-CB-CG1	5.52	119.78	110.40
6	Q	338	VAL	O-C-N	5.52	130.11	122.88
5	S	90	GLN	CB-CG-CD	5.52	121.98	112.60
6	W	472	ARG	NE-CZ-NH2	5.52	124.17	119.20
6	X	292	ARG	CD-NE-CZ	5.52	132.13	124.40
1	A	77	ASN	N-CA-C	5.52	116.77	109.93
4	D	81	GLY	O-C-N	5.52	129.70	122.91
4	D	393	ASP	O-C-N	5.52	129.06	122.27
5	F	170	GLU	N-CA-C	5.52	118.23	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	264	SER	O-C-N	5.52	128.68	122.22
6	K	362	THR	CA-CB-OG1	5.52	117.88	109.60
5	L	110	PHE	CA-C-O	-5.52	115.02	120.98
5	N	195	LEU	O-C-N	5.52	129.66	122.87
6	O	71	TYR	CA-C-N	5.52	128.93	120.82
6	O	71	TYR	C-N-CA	5.52	128.93	120.82
6	O	575	MET	O-C-N	5.52	127.83	122.09
6	P	215	TYR	CB-CG-CD2	5.52	129.08	120.80
6	P	264	SER	O-C-N	5.52	128.68	122.22
6	Q	196	LEU	O-C-N	5.52	127.97	122.12
6	V	165	THR	CA-CB-OG1	5.52	117.88	109.60
6	W	123	ALA	CA-C-O	-5.52	114.74	120.92
6	W	244	ALA	N-CA-C	5.52	118.62	109.46
6	X	246	THR	CA-CB-OG1	5.52	117.88	109.60
6	X	330	GLN	CA-C-N	5.52	132.08	121.54
6	X	330	GLN	C-N-CA	5.52	132.08	121.54
6	X	425	THR	N-CA-C	5.52	122.55	110.80
6	X	579	ASN	CB-CA-C	5.52	117.49	110.98
4	E	265	SER	N-CA-C	5.52	117.23	108.79
5	F	141	THR	OG1-CB-CG2	5.52	120.33	109.30
5	H	38	ALA	N-CA-C	5.52	117.66	110.43
6	J	346	ASP	N-CA-C	5.52	117.51	108.52
5	L	223	THR	CA-CB-CG2	5.52	119.88	110.50
6	O	362	THR	N-CA-CB	5.52	119.81	110.49
6	P	516	LYS	CA-C-O	-5.52	114.70	120.55
1	A	1066	ASN	CA-CB-CG	5.51	118.11	112.60
6	J	352	ASP	O-C-N	5.51	131.34	122.96
5	M	66	GLN	N-CA-C	5.51	117.29	111.28
6	O	264	SER	O-C-N	5.51	128.67	122.22
6	P	472	ARG	O-C-N	5.51	130.22	122.77
6	U	115	THR	O-C-N	-5.51	116.74	123.30
6	W	70	GLN	N-CA-C	5.51	122.54	110.80
6	W	295	ARG	NE-CZ-NH1	-5.51	115.98	121.50
6	W	560	PRO	N-CA-CB	5.51	109.04	103.25
6	X	514	LEU	N-CA-C	5.51	118.81	111.75
3	C	28	PRO	N-CD-CG	5.51	111.47	103.20
4	E	63	SER	N-CA-CB	5.51	118.33	110.06
6	K	216	PRO	CA-N-CD	-5.51	104.28	112.00
6	V	505	ASP	N-CA-C	5.51	117.89	108.90
1	A	954	HIS	N-CA-CB	-5.51	101.18	110.49
1	A	1033	PRO	O-C-N	5.51	127.96	121.46
1	A	1244	THR	CA-CB-OG1	5.51	117.87	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	497	ILE	CB-CA-C	5.51	119.03	111.97
3	C	768	GLN	CA-C-O	-5.51	114.67	121.06
3	C	958	HIS	CB-CA-C	5.51	119.63	110.81
4	D	274	TRP	N-CA-C	5.51	118.00	111.33
6	J	33	ALA	CA-C-O	5.51	127.16	120.99
6	J	560	PRO	N-CA-CB	5.51	109.04	103.25
6	O	362	THR	CA-CB-OG1	5.51	117.87	109.60
6	P	307	ILE	CA-C-O	5.51	127.67	120.78
6	P	593	GLN	CB-CA-C	5.51	120.67	111.30
6	Q	636	ALA	N-CA-C	5.51	117.29	111.28
6	U	505	ASP	N-CA-C	5.51	117.88	108.90
6	W	261	GLN	N-CA-C	5.51	117.29	111.28
6	W	291	PRO	CA-C-O	-5.51	115.26	121.43
1	A	1252	SER	N-CA-CB	5.51	119.46	110.37
6	I	598	SER	CB-CA-C	5.51	119.94	110.79
5	T	15	ARG	O-C-N	5.51	129.05	122.27
6	U	284	VAL	O-C-N	5.51	127.63	121.90
6	W	593	GLN	CB-CA-C	5.51	120.67	111.30
1	A	1184	VAL	CA-CB-CG2	5.51	119.76	110.40
3	C	648	ALA	N-CA-C	5.51	117.09	111.14
6	K	244	ALA	N-CA-C	5.51	118.60	109.46
6	U	390	ASN	CA-CB-CG	5.51	118.11	112.60
2	B	958	HIS	CG-CD2-NE2	5.51	112.71	107.20
3	C	644	GLU	CA-C-N	5.51	127.66	120.28
3	C	644	GLU	C-N-CA	5.51	127.66	120.28
4	D	112	TRP	CB-CG-CD2	-5.51	119.09	126.80
4	D	347	ILE	N-CA-C	5.51	115.48	107.88
5	G	145	ARG	N-CA-CB	-5.51	102.59	110.57
5	L	186	LEU	N-CA-C	5.51	118.60	108.58
5	L	198	HIS	ND1-CG-CD2	5.51	111.61	106.10
5	M	171	HIS	CA-C-O	-5.51	112.62	120.16
6	Q	489	VAL	CA-C-N	5.51	128.66	120.90
6	Q	489	VAL	C-N-CA	5.51	128.66	120.90
5	Y	66	GLN	N-CA-C	5.51	117.28	111.28
6	P	16	ASP	O-C-N	5.50	130.10	123.16
6	P	362	THR	CA-CB-OG1	5.50	117.86	109.60
6	U	596	MET	N-CA-C	5.50	118.04	111.71
6	V	244	ALA	N-CA-C	5.50	118.60	109.46
6	W	604	VAL	O-C-N	5.50	127.28	121.89
3	C	552	ASP	CA-C-O	-5.50	115.56	121.56
6	K	548	LYS	CA-CB-CG	-5.50	103.09	114.10
5	M	161	LEU	CA-C-N	5.50	131.71	123.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	M	161	LEU	C-N-CA	5.50	131.71	123.23
6	O	163	LEU	N-CA-C	5.50	117.72	111.11
6	W	506	ALA	O-C-N	5.50	129.91	122.59
1	A	217	LEU	CA-C-N	5.50	127.65	120.28
1	A	217	LEU	C-N-CA	5.50	127.65	120.28
1	A	1238	ARG	N-CA-C	5.50	117.70	108.73
3	C	1053	GLN	CB-CG-CD	-5.50	103.25	112.60
5	H	148	CYS	N-CA-C	5.50	119.57	111.04
5	L	163	GLY	O-C-N	5.50	129.85	122.70
6	Q	121	ALA	N-CA-CB	5.50	118.14	109.94
6	Q	152	ARG	NE-CZ-NH2	5.50	124.15	119.20
6	U	513	HIS	N-CA-C	5.50	116.96	111.07
6	V	269	LYS	CA-C-N	5.50	130.17	122.08
6	V	269	LYS	C-N-CA	5.50	130.17	122.08
5	F	163	GLY	O-C-N	5.50	129.85	122.70
5	N	52	CYS	N-CA-CB	-5.50	102.14	111.27
5	N	67	ASP	CA-CB-CG	5.50	118.10	112.60
6	O	644	LEU	N-CA-C	5.50	119.16	112.23
6	Q	561	ASP	N-CA-C	5.50	122.52	110.80
1	A	71	HIS	CB-CG-ND1	5.50	130.95	122.70
1	A	290	HIS	ND1-CE1-NE2	5.50	113.90	108.40
3	C	944	ASN	CA-C-O	5.50	127.54	121.11
4	E	68	VAL	N-CA-C	5.50	116.89	110.62
6	I	258	THR	N-CA-C	-5.50	104.31	111.02
5	R	152	HIS	CG-CD2-NE2	5.50	112.70	107.20
5	T	150	ALA	N-CA-C	5.50	122.51	110.80
6	V	160	GLN	CB-CA-C	5.50	119.61	110.81
6	V	421	HIS	CE1-NE2-CD2	-5.50	103.50	109.00
3	C	121	VAL	CG1-CB-CG2	-5.50	98.71	110.80
4	D	168	ALA	CA-C-N	5.50	127.91	120.38
4	D	168	ALA	C-N-CA	5.50	127.91	120.38
4	E	324	PRO	O-C-N	5.50	129.82	123.01
6	J	267	ALA	O-C-N	5.50	127.81	122.09
6	K	121	ALA	CB-CA-C	-5.50	102.02	110.81
6	K	481	VAL	CB-CA-C	5.50	119.28	110.82
6	O	140	VAL	O-C-N	-5.50	116.02	121.96
6	Q	333	PRO	N-CD-CG	5.50	111.44	103.20
6	U	362	THR	N-CA-CB	5.50	119.78	110.49
6	W	575	MET	N-CA-C	5.50	117.71	111.11
6	I	330	GLN	CA-C-N	5.50	132.04	121.54
6	I	330	GLN	C-N-CA	5.50	132.04	121.54
6	J	140	VAL	O-C-N	-5.50	116.03	121.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	469	VAL	CB-CA-C	-5.50	104.84	112.04
1	A	610	THR	CA-CB-OG1	5.49	117.84	109.60
2	B	529	TRP	O-C-N	5.49	127.80	122.09
3	C	1030	GLN	N-CA-C	5.49	118.21	109.81
6	I	100	LYS	CB-CG-CD	5.49	123.94	111.30
5	S	12	ALA	N-CA-CB	-5.49	102.05	110.01
3	C	442	CYS	N-CA-C	5.49	121.95	109.81
3	C	635	GLN	N-CA-CB	5.49	118.29	110.16
6	J	25	ASP	CA-C-O	5.49	126.37	120.55
5	M	247	PHE	CA-C-N	5.49	131.35	122.29
5	M	247	PHE	C-N-CA	5.49	131.35	122.29
6	P	175	SER	CA-C-O	5.49	126.14	119.49
6	X	311	ASN	CA-CB-CG	5.49	118.09	112.60
5	Y	26	THR	CA-CB-CG2	5.49	119.84	110.50
1	A	41	GLY	O-C-N	5.49	129.84	122.70
2	B	358	GLN	N-CA-C	5.49	116.95	111.07
4	D	158	HIS	N-CA-CB	-5.49	101.33	110.23
4	E	77	ASN	N-CA-C	5.49	121.08	113.45
4	E	166	MET	CA-C-N	5.49	125.44	119.78
4	E	166	MET	C-N-CA	5.49	125.44	119.78
6	O	115	THR	O-C-N	-5.49	116.77	123.30
6	O	171	THR	O-C-N	5.49	127.63	121.32
6	O	593	GLN	OE1-CD-NE2	-5.49	117.11	122.60
6	U	330	GLN	CA-C-N	5.49	132.03	121.54
6	U	330	GLN	C-N-CA	5.49	132.03	121.54
6	W	346	ASP	N-CA-C	5.49	117.47	108.52
1	A	525	HIS	CB-CG-CD2	-5.49	124.06	131.20
5	L	200	THR	N-CA-C	5.49	118.57	108.58
6	O	15	GLY	N-CA-C	5.49	121.17	112.06
6	O	380	VAL	O-C-N	5.49	125.97	120.92
5	R	192	THR	CA-CB-CG2	5.49	119.83	110.50
5	T	182	HIS	CB-CA-C	5.49	120.28	111.66
6	V	356	THR	O-C-N	5.49	129.89	122.59
6	V	362	THR	N-CA-CB	5.49	119.76	110.49
6	W	538	ALA	O-C-N	5.49	127.72	122.07
2	B	1004	PHE	N-CA-C	5.49	119.72	113.19
3	C	321	VAL	O-C-N	5.49	129.43	122.57
6	X	175	SER	CA-C-O	5.49	126.13	119.49
4	D	54	TRP	CD1-CG-CD2	-5.49	97.52	106.30
4	D	279	VAL	N-CA-C	5.49	115.62	110.30
5	L	3	LEU	N-CA-CB	-5.49	101.30	109.69
6	O	575	MET	CA-C-O	-5.49	115.03	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	25	ASP	CA-C-O	5.49	126.36	120.55
6	Q	237	GLU	N-CA-C	5.49	122.48	110.80
6	W	330	GLN	N-CA-CB	-5.49	103.96	112.30
1	A	466	ASP	CA-CB-CG	5.48	118.08	112.60
4	D	73	GLY	O-C-N	5.48	129.83	122.70
6	Q	598	SER	CB-CA-C	5.48	119.89	110.79
5	T	92	ALA	N-CA-CB	-5.48	101.15	109.92
6	V	583	ALA	N-CA-C	5.48	118.02	111.71
2	B	219	LEU	O-C-N	5.48	129.88	122.59
2	B	271	VAL	N-CA-C	5.48	120.74	109.34
4	E	359	TYR	CB-CG-CD1	-5.48	112.58	120.80
6	K	307	ILE	CA-C-O	5.48	127.63	120.78
6	K	405	ILE	CA-CB-CG1	5.48	119.72	110.40
5	S	116	ASP	CA-CB-CG	5.48	118.08	112.60
6	U	70	GLN	N-CA-C	5.48	122.48	110.80
3	C	50	GLN	CB-CA-C	5.48	121.19	110.67
4	E	279	VAL	N-CA-CB	-5.48	102.19	111.23
5	F	45	ARG	NE-CZ-NH1	-5.48	116.02	121.50
5	N	264	GLN	N-CA-C	5.48	122.47	110.80
6	O	390	ASN	O-C-N	5.48	127.93	122.12
6	P	202	THR	CA-CB-OG1	5.48	117.82	109.60
6	P	513	HIS	N-CA-C	5.48	116.93	111.07
5	T	248	ALA	O-C-N	5.48	129.63	123.27
6	W	506	ALA	CA-C-O	-5.48	112.67	120.51
6	X	427	GLU	CA-C-O	5.48	126.95	120.70
1	A	940	VAL	N-CA-C	5.48	120.74	109.34
1	A	977	ILE	N-CA-C	5.48	115.68	110.53
5	F	149	GLN	N-CA-CB	-5.48	103.26	111.64
6	W	272	ASP	CB-CA-C	5.48	121.32	110.42
1	A	260	LEU	N-CA-C	5.48	117.33	111.36
2	B	330	ILE	N-CA-C	5.48	116.66	109.21
4	E	386	ILE	CA-CB-CG1	5.48	119.71	110.40
6	I	519	ASN	O-C-N	5.48	127.71	122.07
6	K	152	ARG	NE-CZ-NH2	5.48	124.13	119.20
6	O	70	GLN	N-CA-C	5.48	122.47	110.80
6	O	634	LYS	O-C-N	5.48	127.71	122.07
6	P	70	GLN	CB-CG-CD	5.48	121.91	112.60
6	P	421	HIS	O-C-N	5.48	130.13	123.01
6	U	300	LYS	CA-C-O	5.48	125.46	120.09
6	W	191	LYS	O-C-N	5.48	130.43	122.43
6	W	255	SER	CA-C-O	-5.48	114.71	120.63
5	Y	10	ALA	N-CA-CB	5.48	118.17	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	X	362	THR	CA-CB-OG1	5.48	117.81	109.60
1	A	786	VAL	CA-CB-CG1	5.47	119.71	110.40
2	B	930	ARG	N-CA-C	5.47	119.46	112.34
4	E	330	PRO	O-C-N	5.47	128.79	122.17
6	I	179	ALA	O-C-N	5.47	130.31	123.19
6	K	284	VAL	CB-CA-C	5.47	119.19	112.02
5	L	5	MET	CG-SD-CE	-5.47	88.86	100.90
6	O	154	ARG	CG-CD-NE	5.47	124.04	112.00
6	Q	390	ASN	CA-CB-CG	5.47	118.08	112.60
6	Q	515	ASN	OD1-CG-ND2	-5.47	117.13	122.60
5	T	40	TYR	N-CA-C	5.47	120.02	107.48
6	V	92	TRP	N-CA-C	5.47	119.27	112.59
3	C	551	PRO	N-CD-CG	5.47	111.41	103.20
3	C	680	PRO	O-C-N	5.47	126.62	122.73
3	C	853	ARG	N-CA-CB	-5.47	101.80	110.28
4	D	84	ILE	CB-CA-C	5.47	120.27	111.29
4	E	307	ALA	N-CA-C	5.47	122.45	110.80
6	I	338	VAL	O-C-N	5.47	130.05	122.88
5	M	55	THR	CA-C-O	5.47	127.41	121.06
6	Q	346	ASP	N-CA-C	5.47	117.44	108.52
5	R	4	HIS	CE1-NE2-CD2	-5.47	103.53	109.00
6	W	42	ASN	CA-CB-CG	5.47	118.07	112.60
6	X	179	ALA	CA-C-O	-5.47	114.93	121.11
2	B	1067	VAL	N-CA-C	5.47	115.67	110.53
6	K	338	VAL	O-C-N	5.47	130.05	122.88
5	L	221	LEU	CD1-CG-CD2	-5.47	98.76	110.80
6	O	598	SER	CB-CA-C	5.47	119.87	110.79
6	U	217	ALA	N-CA-C	5.47	122.45	110.80
1	A	1111	PHE	N-CA-CB	-5.47	101.73	111.08
2	B	584	LYS	N-CA-CB	-5.47	102.08	110.12
3	C	28	PRO	N-CA-CB	5.47	109.08	103.23
3	C	395	THR	OG1-CB-CG2	5.47	120.24	109.30
3	C	1201	TYR	CB-CA-C	5.47	116.34	110.65
4	E	53	VAL	CA-C-N	5.47	131.99	121.54
4	E	53	VAL	C-N-CA	5.47	131.99	121.54
5	F	65	ILE	O-C-N	5.47	127.98	121.80
6	I	427	GLU	CA-C-O	5.47	126.94	120.70
6	J	298	PHE	CG-CD2-CE2	-5.47	111.40	120.70
6	O	447	SER	O-C-N	5.47	126.27	121.18
6	P	179	ALA	CA-C-O	-5.47	114.93	121.11
6	P	598	SER	CA-CB-OG	5.47	122.04	111.10
6	Q	598	SER	N-CA-CB	-5.47	102.08	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	V	121	ALA	N-CA-CB	5.47	118.09	109.94
2	B	665	SER	O-C-N	5.47	129.51	123.33
5	F	236	ALA	O-C-N	5.47	127.70	122.07
5	H	199	ASP	N-CA-CB	5.47	119.73	110.49
6	J	330	GLN	CB-CG-CD	5.47	121.89	112.60
6	W	216	PRO	CA-N-CD	-5.47	104.34	112.00
3	C	222	PHE	N-CA-CB	5.47	119.41	110.39
3	C	505	THR	N-CA-CB	-5.47	101.25	110.49
3	C	935	SER	N-CA-C	5.47	117.38	109.07
4	E	157	TYR	N-CA-C	5.47	118.31	109.40
5	F	35	PHE	CA-CB-CG	-5.47	108.33	113.80
5	G	161	LEU	CA-C-N	5.47	131.65	123.23
5	G	161	LEU	C-N-CA	5.47	131.65	123.23
5	L	112	ALA	CA-C-O	-5.47	113.92	120.54
6	P	338	VAL	O-C-N	5.47	130.04	122.88
6	P	459	LEU	CA-CB-CG	5.47	135.43	116.30
6	Q	284	VAL	O-C-N	5.47	127.59	121.90
6	Q	599	ALA	N-CA-C	5.47	117.24	111.28
6	U	390	ASN	O-C-N	5.47	127.91	122.12
5	Y	223	THR	CA-CB-CG2	5.47	119.79	110.50
1	A	313	LEU	N-CA-C	5.46	119.12	112.23
1	A	1206	TYR	CB-CG-CD1	5.46	129.00	120.80
2	B	753	THR	N-CA-C	5.46	117.99	111.71
2	B	1103	TRP	CA-C-N	5.46	127.54	120.44
2	B	1103	TRP	C-N-CA	5.46	127.54	120.44
6	I	84	LYS	O-C-N	5.46	127.91	122.12
6	O	82	PHE	CA-C-N	5.46	127.60	120.28
6	O	82	PHE	C-N-CA	5.46	127.60	120.28
6	P	253	VAL	CA-CB-CG2	5.46	119.69	110.40
6	P	270	ASP	N-CA-C	5.46	119.11	111.90
6	P	489	VAL	CA-C-N	5.46	128.60	120.90
6	P	489	VAL	C-N-CA	5.46	128.60	120.90
6	P	575	MET	O-C-N	5.46	127.77	122.09
5	T	26	THR	CA-CB-CG2	5.46	119.79	110.50
6	I	256	SER	CA-CB-OG	5.46	122.03	111.10
6	U	371	PRO	CB-CA-C	5.46	118.81	111.71
1	A	799	LEU	N-CA-CB	5.46	117.93	110.01
2	B	949	HIS	ND1-CE1-NE2	5.46	113.86	108.40
4	E	3	GLN	CB-CG-CD	5.46	121.89	112.60
5	G	3	LEU	N-CA-CB	-5.46	101.33	109.69
6	K	193	ILE	CA-C-N	5.46	127.98	120.39
6	K	193	ILE	C-N-CA	5.46	127.98	120.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	N	81	SER	N-CA-C	5.46	117.23	111.28
5	S	143	CYS	CA-C-O	5.46	127.08	121.07
6	V	298	PHE	CG-CD2-CE2	-5.46	111.41	120.70
6	X	165	THR	O-C-N	5.46	127.70	122.07
5	F	110	PHE	CA-C-O	-5.46	114.74	121.02
6	J	645	TRP	CA-CB-CG	5.46	123.97	113.60
6	Q	499	ALA	N-CA-C	5.46	117.94	111.33
1	A	147	PRO	N-CD-CG	5.46	111.39	103.20
1	A	1195	VAL	CA-C-O	-5.46	113.81	120.69
2	B	968	PHE	N-CA-C	5.46	117.94	111.33
4	E	125	TYR	CB-CA-C	5.46	115.90	110.33
6	I	469	VAL	CB-CA-C	-5.46	104.89	112.04
6	I	644	LEU	N-CA-C	5.46	119.11	112.23
6	J	405	ILE	CA-CB-CG1	5.46	119.68	110.40
6	K	425	THR	N-CA-C	5.46	122.43	110.80
6	K	456	ASN	N-CA-C	5.46	119.13	109.58
5	M	150	ALA	N-CA-C	5.46	122.42	110.80
6	O	459	LEU	CA-CB-CG	5.46	135.41	116.30
6	P	141	GLN	CA-CB-CG	5.46	125.02	114.10
6	P	411	VAL	CG1-CB-CG2	-5.46	98.79	110.80
5	T	141	THR	OG1-CB-CG2	5.46	120.22	109.30
6	V	272	ASP	CB-CA-C	5.46	121.28	110.42
6	W	297	ALA	O-C-N	-5.46	115.33	122.59
6	W	430	THR	CA-CB-OG1	5.46	117.79	109.60
6	X	492	ASN	CA-CB-CG	5.46	118.06	112.60
1	A	230	PHE	CA-C-O	-5.46	111.74	120.85
6	I	82	PHE	CA-C-N	5.46	127.59	120.28
6	I	82	PHE	C-N-CA	5.46	127.59	120.28
5	M	250	HIS	CA-CB-CG	5.46	119.26	113.80
5	R	182	HIS	CB-CA-C	5.46	120.23	111.66
6	U	285	PHE	CA-C-O	-5.46	114.18	120.24
6	W	598	SER	CB-CA-C	5.46	119.85	110.79
3	C	856	ARG	O-C-N	5.46	128.38	122.11
5	H	221	LEU	CD1-CG-CD2	-5.46	98.80	110.80
6	I	67	ARG	O-C-N	5.46	129.84	122.59
5	L	12	ALA	N-CA-CB	-5.46	102.10	110.12
6	O	305	LYS	N-CA-C	5.46	122.42	110.80
6	X	269	LYS	CA-C-N	5.46	130.31	122.40
6	X	269	LYS	C-N-CA	5.46	130.31	122.40
2	B	219	LEU	CA-C-O	-5.45	112.71	120.51
2	B	1155	ASP	CA-CB-CG	5.45	118.05	112.60
3	C	865	VAL	CA-C-O	-5.45	115.07	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	338	VAL	CA-C-N	-5.45	114.27	122.01
6	J	338	VAL	C-N-CA	-5.45	114.27	122.01
5	N	248	ALA	N-CA-C	5.45	117.68	109.23
6	U	105	PRO	N-CA-C	5.45	123.70	112.47
6	V	152	ARG	NE-CZ-NH2	5.45	124.11	119.20
6	V	215	TYR	CB-CG-CD2	5.45	128.98	120.80
6	V	342	ASN	OD1-CG-ND2	5.45	128.05	122.60
6	X	202	THR	CA-CB-OG1	5.45	117.78	109.60
2	B	1064	TRP	CE2-CD2-CE3	5.45	124.25	118.80
4	E	401	ALA	O-C-N	5.45	129.84	122.59
5	G	12	ALA	N-CA-CB	-5.45	102.10	110.01
6	J	537	SER	CA-C-N	5.45	127.85	120.44
6	J	537	SER	C-N-CA	5.45	127.85	120.44
6	Q	529	SER	CA-C-O	-5.45	112.71	120.51
6	V	330	GLN	N-CA-CB	-5.45	104.01	112.30
1	A	253	SER	O-C-N	5.45	129.42	123.04
3	C	449	GLU	CA-C-N	5.45	128.03	120.29
3	C	449	GLU	C-N-CA	5.45	128.03	120.29
4	E	7	PHE	CA-CB-CG	5.45	119.25	113.80
4	E	267	ILE	O-C-N	5.45	129.21	123.00
5	F	150	ALA	N-CA-C	5.45	122.41	110.80
6	I	390	ASN	O-C-N	5.45	127.90	122.12
5	N	182	HIS	CB-CA-C	5.45	120.22	111.66
6	P	291	PRO	CA-C-O	-5.45	115.33	121.43
6	Q	269	LYS	CA-C-N	5.45	130.09	122.08
6	Q	269	LYS	C-N-CA	5.45	130.09	122.08
6	Q	330	GLN	CA-C-N	5.45	131.95	121.54
6	Q	330	GLN	C-N-CA	5.45	131.95	121.54
6	X	635	GLN	N-CA-C	5.45	117.67	111.02
1	A	169	VAL	CA-CB-CG2	5.45	119.66	110.40
1	A	790	ARG	N-CA-C	5.45	118.73	108.65
2	B	584	LYS	N-CA-C	5.45	117.22	111.28
3	C	631	ILE	CB-CA-C	5.45	117.11	111.23
5	H	90	GLN	CG-CD-OE1	-5.45	109.90	120.80
6	I	613	LEU	N-CA-C	5.45	122.41	110.80
5	L	161	LEU	CA-C-N	5.45	131.62	123.23
5	L	161	LEU	C-N-CA	5.45	131.62	123.23
6	Q	327	TYR	CA-CB-CG	5.45	123.71	113.90
5	R	66	GLN	N-CA-C	5.45	117.22	111.28
6	V	270	ASP	N-CA-C	5.45	119.09	111.90
6	W	256	SER	CA-CB-OG	5.45	122.00	111.10
6	W	348	VAL	CG1-CB-CG2	-5.45	98.81	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	X	244	ALA	N-CA-C	5.45	118.51	109.46
2	B	616	SER	CA-CB-OG	5.45	122.00	111.10
5	G	247	PHE	CA-C-N	5.45	131.28	122.29
5	G	247	PHE	C-N-CA	5.45	131.28	122.29
6	K	371	PRO	O-C-N	5.45	129.99	122.64
5	M	45	ARG	CA-C-O	-5.45	112.72	120.51
6	O	408	ALA	O-C-N	5.45	129.63	122.93
6	W	549	LEU	CB-CA-C	5.45	120.55	111.83
1	A	255	ILE	CA-CB-CG1	5.45	119.66	110.40
1	A	289	TYR	O-C-N	5.45	130.02	123.16
1	A	1020	SER	N-CA-C	5.45	122.40	110.80
2	B	892	ASP	CA-CB-CG	5.45	118.05	112.60
4	E	123	ASN	N-CA-C	5.45	117.92	111.33
5	F	250	HIS	CA-CB-CG	5.45	119.25	113.80
6	I	352	ASP	O-C-N	5.45	131.24	122.96
6	K	115	THR	O-C-N	-5.45	116.82	123.30
6	K	297	ALA	O-C-N	-5.45	115.35	122.59
6	K	437	ILE	O-C-N	5.45	129.58	122.94
6	V	122	THR	CA-CB-OG1	5.45	117.77	109.60
6	V	469	VAL	CB-CA-C	-5.45	104.91	112.04
6	O	25	ASP	CA-C-O	5.44	126.32	120.55
6	O	127	LEU	O-C-N	5.44	127.89	122.12
6	O	593	GLN	N-CA-C	5.44	117.57	107.99
5	R	149	GLN	N-CA-CB	-5.44	103.31	111.64
5	T	65	ILE	O-C-N	5.44	127.44	121.83
5	Y	182	HIS	CB-CA-C	5.44	120.21	111.66
2	B	264	PRO	N-CA-C	5.44	117.34	110.70
2	B	650	TRP	CB-CG-CD1	5.44	135.06	126.90
3	C	314	SER	N-CA-CB	5.44	118.01	110.17
3	C	690	ALA	N-CA-C	5.44	121.84	109.81
4	D	98	SER	CA-C-O	5.44	126.32	120.55
6	J	295	ARG	NE-CZ-NH1	-5.44	116.06	121.50
6	J	377	GLN	N-CA-C	5.44	118.05	107.71
6	J	579	ASN	CA-CB-CG	-5.44	107.16	112.60
6	K	70	GLN	CB-CG-CD	5.44	121.85	112.60
6	K	270	ASP	N-CA-C	5.44	119.08	111.90
5	M	45	ARG	NE-CZ-NH1	-5.44	116.06	121.50
6	O	154	ARG	O-C-N	5.44	129.72	122.43
5	S	182	HIS	CB-CA-C	5.44	120.20	111.66
5	S	256	ASP	CA-CB-CG	-5.44	107.16	112.60
6	W	447	SER	O-C-N	5.44	126.24	121.18
1	A	148	ILE	N-CA-C	5.44	120.66	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	377	ARG	O-C-N	5.44	127.78	121.47
2	B	1127	CYS	N-CA-C	5.44	118.44	109.85
3	C	33	PRO	CA-C-N	5.44	126.64	119.84
3	C	33	PRO	C-N-CA	5.44	126.64	119.84
3	C	757	VAL	O-C-N	5.44	127.15	121.87
4	D	87	HIS	O-C-N	5.44	128.70	123.04
6	O	262	ALA	CA-C-O	-5.44	115.11	120.82
6	O	586	VAL	CA-CB-CG1	5.44	119.65	110.40
6	P	66	ASP	O-C-N	5.44	128.59	122.22
6	P	342	ASN	OD1-CG-ND2	5.44	128.04	122.60
6	P	389	ALA	CA-C-N	5.44	127.83	120.38
6	P	389	ALA	C-N-CA	5.44	127.83	120.38
6	W	503	ALA	CA-C-N	5.44	131.93	121.54
6	W	503	ALA	C-N-CA	5.44	131.93	121.54
6	X	183	TRP	CD2-CE2-CZ2	-5.44	116.96	122.40
6	X	195	PRO	N-CA-CB	5.44	108.17	103.27
1	A	299	THR	N-CA-C	5.44	118.93	110.17
2	B	391	CYS	O-C-N	5.44	130.00	123.36
2	B	617	HIS	CA-CB-CG	-5.44	108.36	113.80
3	C	445	PHE	N-CA-C	5.44	118.12	109.96
3	C	815	PRO	N-CA-C	5.44	121.09	113.53
4	D	177	TYR	CA-CB-CG	5.44	123.69	113.90
4	D	342	ARG	NE-CZ-NH2	5.44	124.09	119.20
6	P	121	ALA	N-CA-CB	5.44	118.04	109.94
6	P	469	VAL	CB-CA-C	-5.44	104.92	112.04
6	X	513	HIS	N-CA-C	5.44	116.89	111.07
3	C	289	ASN	CA-C-N	5.44	124.78	118.85
3	C	289	ASN	C-N-CA	5.44	124.78	118.85
3	C	1167	LEU	N-CA-C	5.44	117.21	111.28
5	F	40	TYR	N-CA-C	5.44	119.93	107.48
6	I	548	LYS	CA-CB-CG	-5.44	103.23	114.10
6	J	179	ALA	CA-C-O	-5.44	114.97	121.11
6	J	297	ALA	CB-CA-C	5.44	121.24	110.42
6	P	70	GLN	N-CA-C	5.44	122.38	110.80
6	P	154	ARG	N-CA-CB	-5.44	100.87	110.39
5	R	199	ASP	N-CA-CB	5.44	119.68	110.49
6	U	149	ILE	N-CA-CB	-5.44	103.14	110.54
6	U	579	ASN	CA-CB-CG	-5.44	107.16	112.60
6	V	459	LEU	CA-CB-CG	5.44	135.33	116.30
6	V	521	VAL	CA-C-O	-5.44	115.41	121.17
6	X	561	ASP	N-CA-C	5.44	122.38	110.80
2	B	661	THR	N-CA-C	5.44	117.01	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	I	270	ASP	CA-CB-CG	5.44	118.04	112.60
6	O	121	ALA	N-CA-CB	5.44	118.04	109.94
2	B	861	ARG	CD-NE-CZ	-5.43	116.79	124.40
5	F	48	ILE	O-C-N	5.43	128.21	122.67
6	I	298	PHE	CZ-CE2-CD2	-5.43	110.22	120.00
6	K	27	THR	CA-C-N	-5.43	111.16	121.54
6	K	27	THR	C-N-CA	-5.43	111.16	121.54
6	O	33	ALA	CA-C-O	5.43	127.08	120.99
1	A	439	PHE	CA-CB-CG	5.43	119.23	113.80
6	J	548	LYS	N-CA-CB	-5.43	103.90	110.53
5	M	275	SER	CA-C-O	5.43	128.28	120.51
6	O	10	THR	CA-CB-OG1	5.43	117.75	109.60
6	P	139	THR	CA-CB-OG1	5.43	117.75	109.60
6	Q	15	GLY	CA-C-O	-5.43	115.69	121.88
6	V	319	THR	O-C-N	5.43	129.76	123.30
6	W	598	SER	CA-CB-OG	5.43	121.97	111.10
6	W	613	LEU	N-CA-C	5.43	122.37	110.80
6	X	10	THR	CA-CB-OG1	5.43	117.75	109.60
6	X	146	GLN	N-CA-C	5.43	117.63	111.11
6	X	545	VAL	N-CA-C	5.43	116.92	111.00
6	Q	390	ASN	O-C-N	5.43	127.88	122.12
6	V	25	ASP	CA-C-O	5.43	126.31	120.55
6	X	126	ALA	N-CA-C	5.43	118.12	111.82
2	B	861	ARG	CG-CD-NE	5.43	123.95	112.00
3	C	267	THR	CA-CB-OG1	5.43	117.74	109.60
3	C	613	SER	N-CA-C	5.43	117.90	111.33
4	D	219	LEU	CA-C-N	5.43	128.00	120.29
4	D	219	LEU	C-N-CA	5.43	128.00	120.29
4	E	388	PRO	N-CA-CB	5.43	107.88	103.32
6	I	163	LEU	N-CA-C	5.43	117.63	111.11
6	J	255	SER	CA-C-O	-5.43	114.77	120.63
5	S	157	HIS	CG-CD2-NE2	5.43	112.63	107.20
6	U	456	ASN	N-CA-C	5.43	119.08	109.58
6	U	567	ARG	CA-C-O	-5.43	114.67	120.42
6	W	237	GLU	N-CA-C	5.43	122.37	110.80
6	J	345	ILE	CA-CB-CG1	5.43	119.63	110.40
6	O	12	ASN	CA-CB-CG	5.43	118.03	112.60
5	T	67	ASP	CA-CB-CG	5.43	118.03	112.60
6	W	321	THR	N-CA-C	5.43	120.56	113.88
2	B	741	THR	N-CA-C	5.43	117.60	107.99
3	C	136	LEU	N-CA-C	5.43	117.90	111.33
3	C	368	ILE	N-CA-C	5.43	120.63	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	G	112	ALA	CA-C-O	-5.43	113.97	120.54
6	I	338	VAL	CA-C-N	-5.43	114.31	122.01
6	I	338	VAL	C-N-CA	-5.43	114.31	122.01
6	I	472	ARG	O-C-N	5.43	130.09	122.77
6	K	141	GLN	CA-CB-CG	5.43	124.95	114.10
5	S	262	CYS	O-C-N	5.43	127.87	122.12
6	U	126	ALA	N-CA-C	5.43	118.11	111.82
6	V	333	PRO	N-CD-CG	5.43	111.34	103.20
1	A	326	ALA	N-CA-C	5.42	122.35	110.80
1	A	728	PRO	N-CA-CB	5.42	108.95	103.25
2	B	566	CYS	N-CA-C	5.42	117.27	111.36
4	D	27	GLN	CA-CB-CG	5.42	124.95	114.10
4	E	311	GLY	O-C-N	5.42	129.75	122.70
5	F	275	SER	CA-C-O	5.42	128.27	120.51
6	J	499	ALA	N-CA-C	5.42	117.89	111.33
5	S	141	THR	OG1-CB-CG2	5.42	120.15	109.30
1	A	628	TRP	NE1-CE2-CD2	5.42	114.45	107.40
1	A	845	LEU	N-CA-C	5.42	120.02	113.41
3	C	742	MET	CG-SD-CE	-5.42	88.97	100.90
3	C	1156	THR	CB-CA-C	-5.42	104.64	113.37
4	D	401	ALA	N-CA-C	5.42	119.06	112.23
4	E	117	ASN	CA-CB-CG	5.42	118.02	112.60
5	L	74	GLN	OE1-CD-NE2	-5.42	117.18	122.60
6	O	175	SER	CA-C-O	5.42	126.05	119.49
5	T	197	VAL	O-C-N	-5.42	117.41	123.26
6	U	575	MET	O-C-N	5.42	127.73	122.09
6	U	575	MET	CA-C-O	-5.42	115.10	120.90
6	U	621	SER	N-CA-C	5.42	117.89	111.33
6	V	371	PRO	CB-CA-C	5.42	118.76	111.71
6	X	575	MET	CA-C-O	-5.42	115.10	120.90
6	X	594	SER	CA-C-N	5.42	126.12	119.99
6	X	594	SER	C-N-CA	5.42	126.12	119.99
1	A	178	ILE	N-CA-C	5.42	115.07	107.37
3	C	94	THR	CA-CB-OG1	5.42	117.73	109.60
6	J	195	PRO	N-CA-CB	5.42	108.13	103.36
6	O	469	VAL	CB-CA-C	-5.42	104.94	112.04
6	W	105	PRO	N-CA-C	5.42	123.64	112.47
6	W	425	THR	N-CA-C	5.42	122.34	110.80
1	A	71	HIS	CB-CG-CD2	-5.42	124.16	131.20
2	B	928	ASP	N-CA-C	5.42	120.77	108.74
2	B	962	GLN	CA-C-N	5.42	127.81	120.44
2	B	962	GLN	C-N-CA	5.42	127.81	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	1012	ARG	CA-C-N	5.42	130.48	123.11
3	C	1012	ARG	C-N-CA	5.42	130.48	123.11
6	J	70	GLN	CB-CG-CD	5.42	121.81	112.60
6	J	310	PHE	CA-CB-CG	5.42	119.22	113.80
6	O	53	THR	N-CA-C	5.42	116.91	110.19
5	R	223	THR	CA-CB-CG2	5.42	119.71	110.50
6	V	430	THR	CA-CB-OG1	5.42	117.73	109.60
6	W	390	ASN	O-C-N	5.42	127.86	122.12
6	W	451	SER	N-CA-C	5.42	122.34	110.80
6	X	469	VAL	O-C-N	5.42	127.20	121.89
1	A	158	TRP	NE1-CE2-CD2	5.42	114.44	107.40
1	A	1223	ILE	CA-CB-CG2	5.42	119.71	110.50
2	B	583	VAL	N-CA-CB	5.42	116.31	110.62
5	G	48	ILE	O-C-N	5.42	128.19	122.67
6	J	430	THR	CA-CB-OG1	5.42	117.72	109.60
6	V	67	ARG	O-C-N	5.42	129.79	122.59
6	X	338	VAL	O-C-N	5.42	129.98	122.88
6	X	389	ALA	CA-C-N	5.42	127.80	120.38
6	X	389	ALA	C-N-CA	5.42	127.80	120.38
6	X	430	THR	CA-C-O	5.42	126.48	120.63
1	A	538	ARG	CD-NE-CZ	-5.42	116.82	124.40
4	E	395	GLY	O-C-N	5.42	129.74	122.70
1	A	259	ALA	N-CA-C	5.41	118.10	111.82
1	A	743	SER	N-CA-C	5.41	117.72	108.90
1	A	971	VAL	N-CA-CB	5.41	118.79	111.21
2	B	322	THR	N-CA-CB	5.41	119.41	110.97
4	E	279	VAL	CA-C-N	5.41	127.53	120.28
4	E	279	VAL	C-N-CA	5.41	127.53	120.28
5	H	145	ARG	N-CA-CB	-5.41	102.72	110.57
5	M	221	LEU	CD1-CG-CD2	-5.41	98.89	110.80
6	W	184	LYS	O-C-N	5.41	127.72	122.09
6	W	284	VAL	O-C-N	5.41	127.53	121.90
6	X	421	HIS	O-C-N	5.41	130.05	123.01
2	B	296	ASN	CB-CG-ND2	-5.41	108.28	116.40
3	C	1113	PRO	CB-CA-C	5.41	117.52	110.92
4	D	77	ASN	OD1-CG-ND2	5.41	128.01	122.60
5	M	168	PRO	N-CA-C	5.41	121.66	113.81
6	U	154	ARG	CG-CD-NE	5.41	123.91	112.00
1	A	888	ILE	N-CA-CB	-5.41	104.83	111.00
3	C	763	VAL	CA-C-N	5.41	130.40	122.66
3	C	763	VAL	C-N-CA	5.41	130.40	122.66
5	H	48	ILE	O-C-N	5.41	128.19	122.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	I	126	ALA	N-CA-C	5.41	118.09	111.82
6	I	557	PRO	CB-CA-C	5.41	120.71	112.97
6	J	430	THR	CA-C-O	5.41	126.47	120.63
6	K	212	ILE	O-C-N	-5.41	116.62	121.87
6	P	377	GLN	OE1-CD-NE2	-5.41	117.19	122.60
6	Q	82	PHE	CA-C-N	5.41	127.53	120.28
6	Q	82	PHE	C-N-CA	5.41	127.53	120.28
6	U	365	ASP	CA-CB-CG	5.41	118.01	112.60
1	A	234	THR	N-CA-C	5.41	122.32	110.80
5	F	67	ASP	CA-CB-CG	5.41	118.01	112.60
6	I	342	ASN	OD1-CG-ND2	5.41	128.01	122.60
5	N	65	ILE	O-C-N	5.41	127.91	121.80
6	U	269	LYS	CA-C-N	5.41	130.03	122.08
6	U	269	LYS	C-N-CA	5.41	130.03	122.08
6	V	278	THR	CA-C-O	5.41	126.27	120.05
6	W	270	ASP	CA-CB-CG	5.41	118.01	112.60
6	X	612	SER	CA-C-N	5.41	131.87	121.54
6	X	612	SER	C-N-CA	5.41	131.87	121.54
3	C	357	ALA	O-C-N	5.41	127.85	122.12
6	O	636	ALA	N-CA-C	5.41	117.87	111.33
1	A	669	ARG	NH1-CZ-NH2	-5.41	112.27	119.30
1	A	703	ASP	CA-CB-CG	5.41	118.01	112.60
1	A	898	THR	CA-C-N	5.41	128.15	120.53
1	A	898	THR	C-N-CA	5.41	128.15	120.53
2	B	925	LEU	N-CA-C	5.41	118.97	112.38
2	B	996	MET	CA-C-O	5.41	126.19	119.97
2	B	1036	ASN	N-CA-C	5.41	122.31	110.80
6	J	342	ASN	N-CA-C	5.41	118.17	108.17
6	K	44	THR	N-CA-CB	5.41	120.69	111.50
5	M	192	THR	CA-CB-CG2	5.41	119.69	110.50
5	N	239	GLY	O-C-N	5.41	127.18	121.77
6	O	356	THR	O-C-N	5.41	129.78	122.59
6	Q	481	VAL	CB-CA-C	5.41	119.14	110.82
5	R	41	VAL	CA-C-N	5.41	131.86	121.54
5	R	41	VAL	C-N-CA	5.41	131.86	121.54
5	R	220	ASP	O-C-N	5.41	128.36	122.20
6	W	311	ASN	CA-CB-CG	5.41	118.00	112.60
1	A	119	GLY	CA-C-O	5.40	126.62	121.05
2	B	1113	PRO	N-CA-CB	5.40	108.32	103.08
3	C	469	ALA	CA-C-O	5.40	126.15	120.42
3	C	520	PRO	CA-N-CD	-5.40	104.44	112.00
3	C	1118	CYS	CB-CA-C	5.40	119.11	109.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	D	258	PRO	CA-C-O	-5.40	112.72	120.56
5	N	141	THR	OG1-CB-CG2	5.40	120.11	109.30
5	S	41	VAL	CA-C-N	5.40	131.86	121.54
5	S	41	VAL	C-N-CA	5.40	131.86	121.54
6	V	596	MET	N-CA-C	5.40	117.92	111.71
2	B	440	ILE	CA-CB-CG1	5.40	119.58	110.40
2	B	911	THR	N-CA-C	5.40	117.59	111.11
3	C	299	LEU	N-CA-C	5.40	119.04	112.23
3	C	705	ILE	CA-C-N	5.40	127.83	120.54
3	C	705	ILE	C-N-CA	5.40	127.83	120.54
4	E	84	ILE	CA-CB-CG1	5.40	119.59	110.40
6	I	262	ALA	O-C-N	5.40	127.64	122.07
6	P	430	THR	CA-C-O	5.40	126.47	120.63
6	Q	557	PRO	CB-CA-C	5.40	120.70	112.97
5	S	57	ALA	CA-C-N	5.40	125.34	119.78
5	S	57	ALA	C-N-CA	5.40	125.34	119.78
6	V	245	ALA	N-CA-C	5.40	118.18	110.24
5	Y	199	ASP	N-CA-CB	5.40	119.62	110.49
1	A	958	PHE	CD1-CG-CD2	-5.40	110.50	118.60
3	C	366	ASP	CA-C-O	-5.40	112.79	120.51
5	H	10	ALA	N-CA-CB	5.40	118.06	110.12
6	K	430	THR	CA-C-O	5.40	126.46	120.63
6	O	126	ALA	N-CA-C	5.40	118.08	111.82
6	U	185	SER	CA-C-N	5.40	127.78	120.65
6	U	185	SER	C-N-CA	5.40	127.78	120.65
6	U	621	SER	O-C-N	5.40	127.84	122.12
6	X	527	VAL	CA-C-O	5.40	125.54	120.14
2	B	833	PRO	N-CA-C	5.40	121.80	113.75
6	J	327	TYR	CA-CB-CG	5.40	123.62	113.90
6	Q	513	HIS	N-CA-C	5.40	116.85	111.07
5	R	141	THR	OG1-CB-CG2	5.40	120.10	109.30
6	W	492	ASN	CA-CB-CG	5.40	118.00	112.60
1	A	522	SER	N-CA-C	5.40	117.60	109.23
6	I	630	LEU	O-C-N	5.40	127.63	122.07
5	L	248	ALA	N-CA-C	5.40	117.60	109.23
5	M	76	ASN	O-C-N	5.40	127.92	122.09
6	P	641	ILE	O-C-N	5.40	127.11	121.87
6	X	630	LEU	O-C-N	5.40	127.63	122.07
5	Y	197	VAL	O-C-N	-5.40	117.43	123.26
2	B	836	HIS	O-C-N	5.40	127.63	122.07
5	M	81	SER	N-CA-C	5.40	117.16	111.28
6	Q	226	LYS	N-CA-C	5.40	120.22	111.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	Q	418	ASN	CB-CG-OD1	-5.40	110.01	120.80
5	S	195	LEU	O-C-N	5.40	129.21	122.63
6	U	92	TRP	CG-CD2-CE3	-5.40	128.50	133.90
6	X	184	LYS	O-C-N	5.40	127.70	122.09
3	C	1160	GLU	N-CA-CB	-5.39	101.38	110.49
6	K	216	PRO	N-CD-CG	5.39	111.29	103.20
6	K	412	ARG	CB-CA-C	5.39	119.80	111.28
6	K	579	ASN	CA-CB-CG	-5.39	107.20	112.60
6	O	72	SER	N-CA-C	5.39	117.25	110.24
6	O	430	THR	CA-CB-OG1	5.39	117.69	109.60
6	P	538	ALA	O-C-N	5.39	127.92	122.09
6	Q	24	SER	CA-C-O	5.39	126.20	120.10
6	X	330	GLN	CB-CG-CD	5.39	121.77	112.60
6	X	582	LEU	N-CA-C	5.39	118.66	111.75
6	X	618	THR	CA-CB-CG2	5.39	119.67	110.50
2	B	915	LEU	N-CA-C	5.39	117.62	108.02
5	G	110	PHE	CA-C-O	-5.39	114.82	121.02
6	J	434	ILE	CA-C-O	-5.39	112.72	119.95
5	L	257	MET	N-CA-C	5.39	122.28	110.80
6	O	141	GLN	CA-CB-CG	5.39	124.88	114.10
6	Q	272	ASP	CB-CA-C	5.39	121.15	110.42
5	T	67	ASP	N-CA-C	5.39	117.91	111.71
1	A	1028	ILE	CA-CB-CG1	5.39	119.56	110.40
2	B	972	MET	CA-C-O	-5.39	114.81	120.63
1	A	1184	VAL	O-C-N	5.39	129.02	123.04
2	B	267	THR	CA-CB-OG1	5.39	117.69	109.60
2	B	840	ALA	O-C-N	5.39	127.62	122.07
3	C	127	SER	N-CA-C	5.39	116.26	108.34
3	C	362	THR	O-C-N	-5.39	115.38	122.39
5	N	221	LEU	CD1-CG-CD2	-5.39	98.94	110.80
6	O	617	VAL	N-CA-C	5.39	120.55	109.34
6	U	373	PHE	CB-CA-C	5.39	119.04	109.72
6	U	569	ALA	N-CA-CB	5.39	118.14	110.16
6	V	532	ASP	CA-C-N	5.39	130.44	123.00
6	V	532	ASP	C-N-CA	5.39	130.44	123.00
6	X	390	ASN	O-C-N	5.39	127.83	122.12
1	A	581	ASP	N-CA-C	5.39	118.96	107.70
5	F	59	HIS	O-C-N	5.39	127.83	122.12
6	J	146	GLN	N-CA-C	5.39	117.58	111.11
5	R	143	CYS	CA-C-O	5.39	127.00	121.07
1	A	549	ARG	NH1-CZ-NH2	-5.39	112.30	119.30
1	A	652	SER	N-CA-C	5.39	116.71	108.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	727	LEU	N-CA-CB	5.39	118.78	110.43
3	C	191	PRO	CA-C-N	-5.39	112.84	122.32
3	C	191	PRO	C-N-CA	-5.39	112.84	122.32
3	C	582	PRO	O-C-N	5.39	128.69	122.23
4	D	16	GLN	CA-C-O	-5.39	113.86	120.05
6	J	262	ALA	CA-C-O	-5.39	115.16	120.82
6	K	15	GLY	N-CA-C	5.39	121.00	112.06
6	P	195	PRO	N-CA-CB	5.39	108.12	103.27
6	V	70	GLN	N-CA-C	5.39	122.27	110.80
6	W	575	MET	O-C-N	5.39	127.69	122.09
1	A	664	SER	CA-C-O	-5.38	114.81	121.06
2	B	914	ASP	N-CA-C	5.38	118.67	111.24
4	D	115	ALA	N-CA-C	5.38	117.82	110.55
4	E	25	ASP	N-CA-C	5.38	118.07	111.82
5	H	211	ALA	N-CA-C	5.38	117.57	111.11
6	I	10	THR	CA-CB-OG1	5.38	117.67	109.60
6	K	154	ARG	O-C-N	5.38	129.65	122.43
6	K	362	THR	N-CA-CB	5.38	119.59	110.49
5	L	272	VAL	CA-C-O	5.38	124.08	118.96
6	Q	362	THR	N-CA-CB	5.38	119.59	110.49
6	W	175	SER	CA-C-O	5.38	126.01	119.49
2	B	383	ALA	O-C-N	5.38	127.83	122.12
5	F	239	GLY	O-C-N	5.38	127.15	121.77
5	G	152	HIS	CG-CD2-NE2	5.38	112.58	107.20
6	I	215	TYR	CA-C-O	-5.38	114.83	120.38
5	L	170	GLU	N-CA-C	5.38	118.02	109.24
6	O	15	GLY	CA-C-O	-5.38	115.74	121.88
6	Q	371	PRO	CB-CA-C	5.38	118.71	111.71
6	U	262	ALA	CA-C-O	-5.38	115.17	120.82
6	U	469	VAL	CB-CA-C	-5.38	104.99	112.04
6	W	285	PHE	CA-C-O	-5.38	114.71	120.42
3	C	471	PRO	CA-C-O	-5.38	110.75	119.84
5	F	143	CYS	CA-C-O	5.38	127.32	121.02
5	M	182	HIS	CB-CA-C	5.38	120.11	111.66
6	O	626	ALA	N-CA-C	5.38	117.14	111.28
2	B	387	CYS	N-CA-C	5.38	117.67	108.90
5	M	264	GLN	N-CA-C	5.38	122.26	110.80
6	U	541	SER	N-CA-CB	-5.38	102.21	110.12
6	W	514	LEU	N-CA-C	5.38	118.64	111.75
6	X	598	SER	CA-CB-OG	5.38	121.86	111.10
1	A	843	LEU	N-CA-C	5.38	118.06	111.82
5	G	100	ASP	CA-CB-CG	-5.38	107.22	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	I	506	ALA	O-C-N	5.38	129.74	122.59
6	I	644	LEU	CB-CG-CD2	5.38	126.84	110.70
6	J	578	SER	CA-CB-OG	5.38	121.86	111.10
5	L	161	LEU	N-CA-C	5.38	119.59	113.19
6	O	178	SER	O-C-N	5.38	129.55	123.42
5	T	263	GLY	CA-C-N	5.38	131.81	121.54
5	T	263	GLY	C-N-CA	5.38	131.81	121.54
6	V	503	ALA	CA-C-N	5.38	131.81	121.54
6	V	503	ALA	C-N-CA	5.38	131.81	121.54
6	X	629	SER	N-CA-C	5.38	117.90	111.71
1	A	570	VAL	CA-C-N	5.38	126.56	119.84
1	A	570	VAL	C-N-CA	5.38	126.56	119.84
1	A	796	THR	CA-CB-OG1	5.38	117.67	109.60
2	B	662	LEU	CA-C-O	5.38	128.20	120.51
2	B	768	GLN	OE1-CD-NE2	-5.38	117.22	122.60
4	D	134	SER	CA-C-N	5.38	127.75	120.38
4	D	134	SER	C-N-CA	5.38	127.75	120.38
4	D	318	ASN	OD1-CG-ND2	-5.38	117.22	122.60
6	I	247	SER	O-C-N	5.38	129.74	122.59
6	I	511	SER	N-CA-CB	5.38	118.02	110.12
5	N	248	ALA	O-C-N	5.38	129.51	123.27
6	Q	24	SER	O-C-N	5.38	128.51	122.22
6	U	434	ILE	CA-C-O	-5.38	112.75	119.95
6	V	604	VAL	CA-CB-CG1	5.38	119.54	110.40
6	W	70	GLN	CB-CG-CD	5.38	121.74	112.60
6	W	215	TYR	CA-C-O	-5.38	114.84	120.38
5	Y	198	HIS	ND1-CG-CD2	5.38	111.48	106.10
1	A	462	ASN	CB-CG-OD1	5.38	131.55	120.80
2	B	695	SER	N-CA-C	5.38	118.47	110.14
2	B	792	GLN	N-CA-CB	-5.38	103.28	111.66
4	D	184	HIS	CB-CA-C	-5.38	100.69	110.63
6	J	598	SER	CB-CA-C	5.38	119.71	110.79
6	K	593	GLN	CB-CA-C	5.38	120.44	111.30
6	O	367	SER	CA-C-N	5.38	131.81	121.54
6	O	367	SER	C-N-CA	5.38	131.81	121.54
1	A	149	THR	N-CA-C	5.37	117.58	111.02
1	A	374	ALA	CA-C-N	-5.37	114.39	119.76
1	A	374	ALA	C-N-CA	-5.37	114.39	119.76
1	A	551	ILE	CA-CB-CG1	5.37	119.54	110.40
1	A	1099	GLN	OE1-CD-NE2	-5.37	117.23	122.60
2	B	362	THR	CA-CB-OG1	5.37	117.66	109.60
4	E	198	GLN	CG-CD-NE2	-5.37	108.34	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	F	171	HIS	CE1-NE2-CD2	-5.37	103.63	109.00
5	G	65	ILE	O-C-N	5.37	127.87	121.80
5	G	203	HIS	ND1-CE1-NE2	5.37	113.77	108.40
6	I	481	VAL	CB-CA-C	5.37	119.10	110.82
6	K	12	ASN	CA-CB-CG	5.37	117.97	112.60
6	K	256	SER	CA-CB-OG	5.37	121.85	111.10
6	O	284	VAL	N-CA-C	5.37	115.58	110.53
6	W	307	ILE	CA-C-O	5.37	127.50	120.78
6	W	481	VAL	CB-CA-C	5.37	119.09	110.82
6	X	122	THR	CA-CB-OG1	5.37	117.66	109.60
6	X	356	THR	O-C-N	5.37	129.74	122.59
6	X	405	ILE	CA-CB-CG1	5.37	119.53	110.40
2	B	457	MET	N-CA-C	5.37	120.23	111.37
6	J	411	VAL	CA-C-O	-5.37	115.46	121.05
6	K	71	TYR	CA-C-N	5.37	128.72	120.82
6	K	71	TYR	C-N-CA	5.37	128.72	120.82
6	K	147	ARG	NH1-CZ-NH2	5.37	126.28	119.30
6	K	237	GLU	N-CA-C	5.37	122.24	110.80
5	M	48	ILE	CB-CG1-CD1	5.37	125.08	113.80
6	P	338	VAL	CA-C-N	-5.37	114.38	122.01
6	P	338	VAL	C-N-CA	-5.37	114.38	122.01
6	P	548	LYS	N-CA-CB	-5.37	103.98	110.53
6	U	231	GLN	N-CA-C	5.37	120.11	113.50
6	V	537	SER	O-C-N	-5.37	115.41	122.39
6	W	92	TRP	CG-CD2-CE3	-5.37	128.53	133.90
6	W	149	ILE	N-CA-CB	-5.37	103.23	110.54
6	W	299	ILE	CA-CB-CG1	5.37	119.53	110.40
6	W	317	ARG	NE-CZ-NH2	5.37	124.03	119.20
1	A	144	GLN	CB-CG-CD	-5.37	103.47	112.60
1	A	940	VAL	O-C-N	5.37	129.28	122.57
3	C	253	GLY	CA-C-O	-5.37	116.42	121.90
3	C	452	ARG	CA-C-O	-5.37	115.18	120.82
3	C	670	ILE	CA-C-O	-5.37	115.73	119.38
6	J	421	HIS	O-C-N	5.37	129.99	123.01
5	R	149	GLN	CG-CD-NE2	-5.37	108.35	116.40
6	U	247	SER	O-C-N	5.37	129.73	122.59
2	B	1207	ILE	CA-C-N	5.37	130.71	122.93
2	B	1207	ILE	C-N-CA	5.37	130.71	122.93
4	E	4	ARG	CA-C-N	5.37	129.99	122.79
4	E	4	ARG	C-N-CA	5.37	129.99	122.79
5	G	35	PHE	CA-CB-CG	-5.37	108.43	113.80
5	G	262	CYS	O-C-N	5.37	127.81	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	262	ALA	O-C-N	5.37	127.60	122.07
6	K	451	SER	N-CA-C	5.37	122.23	110.80
6	Q	242	PHE	O-C-N	5.37	128.87	122.27
6	U	146	GLN	N-CA-C	5.37	117.55	111.11
1	A	38	ASN	OD1-CG-ND2	-5.37	117.23	122.60
1	A	243	GLN	OE1-CD-NE2	5.37	127.97	122.60
6	J	258	THR	N-CA-C	-5.37	104.47	111.02
6	Q	593	GLN	N-CA-C	5.37	117.44	107.99
6	X	469	VAL	CB-CA-C	-5.37	105.01	112.04
1	A	782	THR	CA-C-O	5.37	126.21	120.20
2	B	650	TRP	CA-C-N	5.37	125.27	119.85
2	B	650	TRP	C-N-CA	5.37	125.27	119.85
3	C	437	ARG	CA-C-N	5.37	125.45	119.87
3	C	437	ARG	C-N-CA	5.37	125.45	119.87
4	D	54	TRP	CZ3-CH2-CZ2	-5.37	114.52	121.50
4	E	100	LEU	N-CA-CB	-5.37	102.05	110.69
5	H	35	PHE	CA-CB-CG	-5.37	108.43	113.80
6	K	459	LEU	CA-C-N	-5.37	113.67	122.26
6	K	459	LEU	C-N-CA	-5.37	113.67	122.26
6	K	593	GLN	N-CA-C	5.37	117.44	107.99
5	L	141	THR	OG1-CB-CG2	5.37	120.03	109.30
6	O	340	ASP	N-CA-CB	-5.37	103.33	110.57
6	U	267	ALA	O-C-N	5.37	127.81	122.12
6	V	347	SER	CB-CA-C	-5.37	98.79	109.79
2	B	726	ARG	NE-CZ-NH1	-5.36	116.14	121.50
3	C	859	ILE	O-C-N	5.36	127.30	121.94
5	G	221	LEU	CD1-CG-CD2	-5.36	99.00	110.80
6	I	495	SER	O-C-N	5.36	127.81	122.12
6	I	579	ASN	CB-CA-C	5.36	117.31	110.98
6	J	108	LEU	N-CA-CB	-5.36	101.42	110.49
6	J	318	LYS	N-CA-C	5.36	116.98	108.67
6	P	593	GLN	OE1-CD-NE2	-5.36	117.24	122.60
6	Q	123	ALA	CA-C-O	-5.36	114.75	121.02
6	Q	139	THR	CA-CB-OG1	5.36	117.64	109.60
5	S	150	ALA	N-CA-C	5.36	122.22	110.80
6	W	82	PHE	CA-C-N	5.36	127.47	120.28
6	W	82	PHE	C-N-CA	5.36	127.47	120.28
4	D	160	GLU	N-CA-C	5.36	117.35	108.13
4	E	41	PHE	CA-C-N	5.36	127.47	120.28
4	E	41	PHE	C-N-CA	5.36	127.47	120.28
6	J	196	LEU	O-C-N	5.36	127.80	122.12
6	J	437	ILE	O-C-N	5.36	129.48	122.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	327	TYR	CA-CB-CG	5.36	123.55	113.90
6	P	411	VAL	O-C-N	5.36	127.14	121.89
6	Q	184	LYS	O-C-N	5.36	127.67	122.09
6	X	506	ALA	O-C-N	5.36	129.72	122.59
1	A	584	GLN	OE1-CD-NE2	-5.36	117.24	122.60
4	E	43	HIS	N-CA-C	5.36	119.67	113.18
4	E	145	MET	CA-C-N	5.36	127.78	120.54
4	E	145	MET	C-N-CA	5.36	127.78	120.54
5	G	145	ARG	NH1-CZ-NH2	-5.36	112.33	119.30
6	I	418	ASN	OD1-CG-ND2	-5.36	117.24	122.60
6	K	472	ARG	NE-CZ-NH2	5.36	124.03	119.20
6	K	598	SER	CA-CB-OG	5.36	121.82	111.10
6	X	282	VAL	CA-C-O	5.36	127.48	120.78
1	A	78	PRO	O-C-N	5.36	129.54	123.00
1	A	798	THR	CA-C-N	5.36	127.41	120.44
1	A	798	THR	C-N-CA	5.36	127.41	120.44
1	A	976	ALA	O-C-N	5.36	128.26	122.15
2	B	318	THR	CA-C-N	5.36	131.78	121.54
2	B	318	THR	C-N-CA	5.36	131.78	121.54
3	C	514	ILE	CA-CB-CG2	-5.36	101.39	110.50
6	I	33	ALA	CA-C-N	-5.36	113.73	122.57
6	I	33	ALA	C-N-CA	-5.36	113.73	122.57
6	I	503	ALA	CA-C-N	5.36	131.78	121.54
6	I	503	ALA	C-N-CA	5.36	131.78	121.54
6	V	252	LEU	O-C-N	5.36	127.66	122.09
6	W	363	ASN	CA-CB-CG	5.36	117.96	112.60
2	B	833	PRO	O-C-N	5.36	128.40	122.24
2	B	955	SER	CA-CB-OG	5.36	121.82	111.10
4	E	22	ASP	CA-C-O	5.36	126.74	120.20
6	I	362	THR	N-CA-CB	5.36	119.54	110.49
6	P	363	ASN	CA-CB-CG	5.36	117.96	112.60
6	Q	541	SER	N-CA-CB	-5.36	102.24	110.12
6	U	389	ALA	CA-C-N	5.36	127.72	120.38
6	U	389	ALA	C-N-CA	5.36	127.72	120.38
6	W	430	THR	CA-C-O	5.36	126.42	120.63
1	A	387	SER	O-C-N	5.36	128.96	122.85
2	B	530	LYS	O-C-N	5.36	127.80	122.12
2	B	723	ASP	CA-CB-CG	5.36	117.96	112.60
2	B	1068	LYS	CB-CG-CD	5.36	123.61	111.30
3	C	650	TRP	CA-C-O	-5.36	114.83	120.02
6	J	593	GLN	CB-CA-C	5.36	120.40	111.30
6	K	613	LEU	N-CA-C	5.36	122.21	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	M	100	ASP	CA-CB-CG	-5.36	107.24	112.60
6	O	481	VAL	CB-CA-C	5.36	119.07	110.82
6	Q	420	LEU	O-C-N	5.36	129.37	123.16
6	U	368	THR	CA-CB-OG1	5.36	117.63	109.60
5	Y	275	SER	CA-C-O	5.36	128.17	120.51
6	O	330	GLN	CB-CG-CD	5.35	121.70	112.60
6	P	73	PHE	CB-CA-C	5.35	117.50	110.06
6	P	505	ASP	N-CA-C	5.35	117.63	108.90
6	X	48	TRP	CA-C-O	-5.35	114.77	121.46
1	A	936	PRO	N-CA-CB	5.35	108.31	103.33
4	E	184	HIS	ND1-CE1-NE2	5.35	113.75	108.40
6	I	342	ASN	N-CA-C	5.35	118.07	108.17
5	M	272	VAL	CA-C-O	5.35	124.97	119.35
6	O	125	ASP	N-CA-CB	5.35	117.99	110.12
6	O	405	ILE	CA-CB-CG1	5.35	119.50	110.40
6	P	456	ASN	N-CA-C	5.35	118.94	109.58
6	Q	610	THR	N-CA-C	5.35	119.12	112.59
6	V	131	VAL	N-CA-C	5.35	115.23	106.72
6	X	310	PHE	CA-CB-CG	5.35	119.15	113.80
5	Y	130	PHE	N-CA-C	5.35	118.97	111.90
4	D	282	ALA	N-CA-CB	5.35	117.99	110.12
6	J	179	ALA	O-C-N	5.35	130.15	123.19
6	U	202	THR	CA-CB-OG1	5.35	117.63	109.60
6	V	346	ASP	N-CA-C	5.35	117.24	108.52
6	X	141	GLN	CA-CB-CG	5.35	124.80	114.10
1	A	327	ILE	CB-CA-C	-5.35	104.58	110.52
1	A	560	HIS	CB-CG-CD2	-5.35	124.25	131.20
2	B	651	PRO	CB-CA-C	-5.35	103.97	110.98
2	B	998	PRO	CA-N-CD	-5.35	104.51	112.00
2	B	1001	ALA	N-CA-C	5.35	121.63	109.81
6	I	307	ILE	CA-C-O	5.35	127.47	120.78
6	I	586	VAL	CA-CB-CG1	5.35	119.50	110.40
6	J	593	GLN	N-CA-C	5.35	117.41	107.99
6	K	630	LEU	O-C-N	5.35	127.58	122.07
6	P	346	ASP	N-CA-C	5.35	117.24	108.52
6	W	362	THR	N-CA-CB	5.35	119.53	110.49
1	A	133	ILE	CA-CB-CG1	5.35	119.49	110.40
1	A	1125	PHE	CA-C-O	-5.35	114.55	120.38
1	A	1201	ASN	CA-CB-CG	5.35	117.95	112.60
3	C	366	ASP	CB-CA-C	5.35	121.06	110.42
3	C	1172	LEU	O-C-N	-5.35	116.06	122.15
5	H	182	HIS	CB-CA-C	5.35	120.06	111.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	I	451	SER	N-CA-C	5.35	122.19	110.80
6	I	513	HIS	N-CA-C	5.35	116.79	111.07
6	I	583	ALA	CA-C-O	5.35	126.14	120.10
5	N	149	GLN	CG-CD-NE2	-5.35	108.38	116.40
6	O	456	ASN	N-CA-C	5.35	118.94	109.58
6	P	191	LYS	N-CA-C	5.35	119.65	113.18
6	Q	185	SER	CA-C-N	5.35	127.71	120.65
6	Q	185	SER	C-N-CA	5.35	127.71	120.65
6	Q	216	PRO	N-CD-CG	5.35	111.22	103.20
5	T	200	THR	N-CA-C	5.35	118.31	108.58
6	U	237	GLU	N-CA-C	5.35	122.19	110.80
6	W	636	ALA	N-CA-C	5.35	117.11	111.28
6	X	216	PRO	N-CD-CG	5.35	111.22	103.20
6	X	319	THR	O-C-N	5.35	129.66	123.30
6	X	586	VAL	O-C-N	5.35	128.05	122.54
5	Y	183	ASP	CA-CB-CG	5.35	117.95	112.60
5	G	248	ALA	O-C-N	5.35	129.47	123.27
6	I	146	GLN	N-CA-C	5.35	117.53	111.11
5	M	152	HIS	CG-CD2-NE2	5.35	112.55	107.20
6	U	216	PRO	CA-N-CD	-5.35	104.52	112.00
6	V	33	ALA	CA-C-O	5.35	126.98	120.99
1	A	768	ASN	O-C-N	5.34	127.79	122.12
2	B	351	PRO	N-CA-CB	5.34	108.43	103.46
2	B	576	THR	OG1-CB-CG2	5.34	119.99	109.30
6	K	77	GLY	CA-C-O	5.34	126.32	120.66
6	K	395	THR	CA-C-O	5.34	126.18	120.46
6	K	537	SER	CA-C-N	5.34	127.39	120.44
6	K	537	SER	C-N-CA	5.34	127.39	120.44
6	P	579	ASN	CA-CB-CG	-5.34	107.26	112.60
6	Q	548	LYS	CA-CB-CG	-5.34	103.41	114.10
6	X	237	GLU	N-CA-C	5.34	122.19	110.80
5	Y	40	TYR	N-CA-C	5.34	119.72	107.48
5	Y	90	GLN	CG-CD-OE1	-5.34	110.11	120.80
2	B	410	HIS	ND1-CG-CD2	5.34	111.44	106.10
4	D	45	ALA	CA-C-O	5.34	126.21	120.55
5	G	57	ALA	CA-C-N	5.34	125.28	119.78
5	G	57	ALA	C-N-CA	5.34	125.28	119.78
6	P	356	THR	O-C-N	5.34	129.70	122.59
6	Q	92	TRP	CG-CD2-CE3	-5.34	128.56	133.90
5	T	264	GLN	N-CA-C	5.34	122.18	110.80
6	X	264	SER	O-C-N	5.34	128.47	122.22
2	B	433	PRO	N-CD-CG	5.34	111.21	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	1032	ILE	CA-CB-CG1	5.34	119.48	110.40
3	C	22	VAL	O-C-N	5.34	123.84	120.42
3	C	144	ALA	N-CA-C	5.34	122.18	110.80
3	C	481	ARG	CA-C-O	5.34	126.94	121.07
5	F	174	LYS	CA-C-N	5.34	125.10	119.76
5	F	174	LYS	C-N-CA	5.34	125.10	119.76
6	O	192	ASP	CA-C-N	-5.34	117.68	123.08
6	O	192	ASP	C-N-CA	-5.34	117.68	123.08
6	P	209	ASN	O-C-N	5.34	127.65	122.09
5	R	168	PRO	N-CA-C	5.34	121.55	113.81
5	T	203	HIS	ND1-CE1-NE2	5.34	113.74	108.40
6	U	645	TRP	CA-CB-CG	5.34	123.75	113.60
6	V	411	VAL	CA-C-O	-5.34	115.49	121.05
1	A	847	PRO	N-CA-C	5.34	117.21	110.70
3	C	319	SER	N-CA-CB	-5.34	102.48	110.17
3	C	692	THR	CB-CA-C	-5.34	104.60	111.22
6	K	121	ALA	N-CA-CB	5.34	117.89	109.94
5	N	38	ALA	N-CA-C	5.34	117.42	110.43
6	U	430	THR	CA-C-O	5.34	126.40	120.63
6	W	418	ASN	CB-CG-OD1	-5.34	110.12	120.80
6	X	33	ALA	CA-C-N	-5.34	114.76	122.45
6	X	33	ALA	C-N-CA	-5.34	114.76	122.45
5	Y	271	HIS	CG-CD2-NE2	5.34	112.54	107.20
1	A	785	LEU	CA-C-N	5.34	127.77	120.46
1	A	785	LEU	C-N-CA	5.34	127.77	120.46
5	G	264	GLN	N-CA-C	5.34	122.17	110.80
5	S	48	ILE	O-C-N	5.34	128.12	122.67
6	X	270	ASP	N-CA-C	5.34	119.07	112.24
6	I	362	THR	CA-CB-OG1	5.34	117.61	109.60
6	K	449	THR	N-CA-C	5.34	117.94	109.24
5	L	248	ALA	O-C-N	5.34	129.46	123.27
5	S	81	SER	CA-C-N	5.34	127.38	120.44
5	S	81	SER	C-N-CA	5.34	127.38	120.44
5	T	110	PHE	CA-C-O	-5.34	114.88	121.02
6	U	594	SER	CA-C-N	5.34	126.02	119.99
6	U	594	SER	C-N-CA	5.34	126.02	119.99
6	X	588	ILE	O-C-N	-5.34	115.02	121.10
4	D	26	LEU	CA-C-N	5.33	128.21	120.79
4	D	26	LEU	C-N-CA	5.33	128.21	120.79
5	G	45	ARG	CA-C-O	-5.33	112.88	120.51
5	T	157	HIS	CG-CD2-NE2	5.33	112.53	107.20
2	B	994	SER	CA-C-O	5.33	124.74	119.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	1082	VAL	CA-CB-CG2	5.33	119.47	110.40
3	C	43	ALA	N-CA-C	5.33	117.17	111.36
5	F	145	ARG	N-CA-CB	-5.33	102.83	110.57
6	K	588	ILE	N-CA-C	-5.33	101.80	107.77
5	L	90	GLN	CG-CD-OE1	-5.33	110.13	120.80
6	P	165	THR	CA-CB-OG1	5.33	117.60	109.60
6	P	604	VAL	CA-CB-CG1	5.33	119.47	110.40
6	Q	70	GLN	CB-CG-CD	5.33	121.67	112.60
6	U	298	PHE	CZ-CE2-CD2	-5.33	110.40	120.00
6	V	262	ALA	CA-C-O	-5.33	115.22	120.82
6	W	414	GLN	CG-CD-OE1	5.33	131.47	120.80
1	A	1033	PRO	N-CA-C	5.33	117.20	110.70
3	C	168	ARG	N-CA-C	5.33	118.27	109.85
3	C	820	VAL	CA-C-N	5.33	127.42	120.28
3	C	820	VAL	C-N-CA	5.33	127.42	120.28
5	H	48	ILE	CB-CG1-CD1	5.33	125.00	113.80
6	K	347	SER	CB-CA-C	-5.33	98.86	109.79
5	M	220	ASP	O-C-N	5.33	128.28	122.20
6	O	92	TRP	N-CA-C	5.33	119.09	112.59
6	O	184	LYS	O-C-N	5.33	127.63	122.09
5	T	74	GLN	OE1-CD-NE2	-5.33	117.27	122.60
6	W	561	ASP	N-CA-C	5.33	122.16	110.80
1	A	358	LEU	N-CA-C	5.33	122.15	110.80
1	A	649	ILE	CA-C-N	5.33	130.59	122.92
1	A	649	ILE	C-N-CA	5.33	130.59	122.92
2	B	465	ASN	CA-C-N	5.33	128.16	120.38
2	B	465	ASN	C-N-CA	5.33	128.16	120.38
4	D	261	ALA	N-CA-C	5.33	122.15	110.80
4	E	42	SER	N-CA-C	5.33	117.09	111.28
6	K	338	VAL	CA-C-N	-5.33	114.44	122.01
6	K	338	VAL	C-N-CA	-5.33	114.44	122.01
6	P	557	PRO	CB-CA-C	5.33	120.59	112.97
6	P	560	PRO	N-CA-CB	5.33	108.85	103.25
5	R	233	ALA	N-CA-CB	-5.33	102.32	110.26
5	Y	256	ASP	CA-CB-CG	-5.33	107.27	112.60
1	A	673	ALA	CB-CA-C	5.33	119.17	110.96
2	B	314	SER	N-CA-CB	5.33	117.79	109.85
2	B	387	CYS	O-C-N	5.33	129.64	123.30
3	C	346	GLY	N-CA-C	5.33	120.61	114.16
3	C	485	PRO	N-CA-CB	5.33	108.84	103.25
5	F	50	ALA	O-C-N	5.33	128.46	122.22
5	G	131	ARG	CA-CB-CG	5.33	124.76	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	I	139	THR	CA-CB-OG1	5.33	117.59	109.60
6	I	306	TRP	CE2-CD2-CE3	5.33	124.13	118.80
6	O	24	SER	CA-C-O	5.33	126.17	120.20
6	Q	154	ARG	O-C-N	5.33	129.57	122.43
5	S	185	VAL	CA-CB-CG1	5.33	119.46	110.40
5	S	228	ASP	CA-CB-CG	5.33	117.93	112.60
6	U	226	LYS	N-CA-C	5.33	120.11	111.37
6	X	362	THR	N-CA-CB	5.33	119.50	110.49
5	G	74	GLN	OE1-CD-NE2	-5.33	117.27	122.60
6	J	516	LYS	CA-C-O	-5.33	114.90	120.55
5	M	41	VAL	CA-C-N	5.33	131.72	121.54
5	M	41	VAL	C-N-CA	5.33	131.72	121.54
6	V	572	ALA	N-CA-C	5.33	118.00	111.82
6	X	272	ASP	CB-CA-C	5.33	121.02	110.42
1	A	53	ASP	OD1-CG-OD2	5.33	135.68	122.90
1	A	656	PHE	N-CA-C	5.33	117.66	107.75
2	B	972	MET	O-C-N	5.33	127.77	122.12
2	B	1129	THR	CA-C-O	-5.33	115.06	120.71
4	D	222	ARG	CD-NE-CZ	5.33	131.86	124.40
4	E	360	THR	N-CA-CB	-5.33	102.29	110.12
6	I	165	THR	CA-CB-CG2	5.33	119.55	110.50
6	I	594	SER	CA-C-N	5.33	126.01	119.99
6	I	594	SER	C-N-CA	5.33	126.01	119.99
6	J	340	ASP	N-CA-CB	-5.33	103.38	110.57
6	K	390	ASN	O-C-N	5.33	127.77	122.12
6	P	21	THR	N-CA-C	5.33	118.86	108.21
6	W	44	THR	N-CA-CB	5.33	120.55	111.50
6	X	612	SER	N-CA-CB	5.33	117.76	110.57
2	B	899	ALA	N-CA-C	5.32	117.83	111.71
3	C	420	VAL	CG1-CB-CG2	-5.32	99.09	110.80
3	C	679	TRP	CB-CA-C	5.32	117.78	109.42
3	C	962	GLN	O-C-N	5.32	127.76	122.12
4	E	193	ALA	N-CA-C	5.32	117.83	111.71
4	E	250	TRP	CD2-CE2-CZ2	-5.32	117.08	122.40
5	H	264	GLN	N-CA-C	5.32	122.14	110.80
6	K	617	VAL	N-CA-C	5.32	120.41	109.34
5	L	139	SER	N-CA-C	5.32	117.52	111.02
6	O	318	LYS	N-CA-C	5.32	116.92	108.67
6	O	541	SER	N-CA-CB	-5.32	102.30	110.12
6	Q	573	ALA	CA-C-O	5.32	126.60	120.90
5	R	48	ILE	CB-CG1-CD1	5.32	124.98	113.80
5	R	239	GLY	O-C-N	5.32	127.09	121.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	212	SER	N-CA-C	5.32	116.92	108.67
6	Q	26	MET	N-CA-CB	-5.32	101.50	110.49
6	V	472	ARG	O-C-N	5.32	129.96	122.77
1	A	851	GLN	O-C-N	-5.32	116.09	123.01
3	C	799	ASP	O-C-N	5.32	129.38	122.89
3	C	958	HIS	ND1-CE1-NE2	5.32	113.72	108.40
6	I	237	GLU	N-CA-C	5.32	122.13	110.80
6	J	617	VAL	N-CA-C	5.32	120.41	109.34
6	Q	459	LEU	CA-C-N	-5.32	113.75	122.26
6	Q	459	LEU	C-N-CA	-5.32	113.75	122.26
6	V	285	PHE	CA-C-O	-5.32	114.33	120.24
6	V	417	PHE	CB-CA-C	-5.32	99.83	110.42
5	Y	81	SER	N-CA-C	5.32	117.08	111.28
5	F	183	ASP	CA-CB-CG	5.32	117.92	112.60
6	I	121	ALA	N-CA-CB	5.32	117.86	109.94
6	I	321	THR	N-CA-C	5.32	120.42	113.88
5	T	38	ALA	N-CA-C	5.32	117.40	110.43
1	A	819	ILE	N-CA-CB	5.32	116.41	110.51
2	B	248	ASN	N-CA-C	5.32	120.95	113.56
3	C	921	ASP	N-CA-C	5.32	122.13	110.80
3	C	1089	ASP	CA-C-N	5.32	126.49	119.84
3	C	1089	ASP	C-N-CA	5.32	126.49	119.84
5	L	45	ARG	CA-C-O	-5.32	112.91	120.51
6	P	569	ALA	N-CA-CB	5.32	118.03	110.16
5	S	81	SER	N-CA-C	5.32	117.08	111.28
6	W	258	THR	N-CA-C	-5.32	104.53	111.02
3	C	125	ARG	NE-CZ-NH1	-5.32	116.19	121.50
3	C	737	ARG	NE-CZ-NH2	5.32	123.98	119.20
6	P	285	PHE	CA-C-O	-5.32	114.78	120.42
6	X	70	GLN	N-CA-C	5.32	122.12	110.80
5	Y	48	ILE	O-C-N	5.32	128.09	122.67
6	P	593	GLN	N-CA-CB	-5.31	102.43	110.35
6	V	247	SER	O-C-N	5.31	129.66	122.59
1	A	275	ASN	CA-C-O	5.31	125.71	119.28
1	A	851	GLN	CA-C-O	5.31	126.76	120.70
2	B	215	LEU	N-CA-C	5.31	118.80	107.70
4	D	64	ARG	CA-C-O	5.31	126.18	120.55
5	H	183	ASP	CA-CB-CG	5.31	117.91	112.60
6	J	10	THR	CA-CB-OG1	5.31	117.57	109.60
6	K	514	LEU	N-CA-C	5.31	118.55	111.75
6	O	148	THR	N-CA-C	5.31	116.75	111.07
6	O	318	LYS	CB-CG-CD	5.31	123.52	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	O	598	SER	CA-CB-OG	5.31	121.73	111.10
5	S	203	HIS	ND1-CE1-NE2	5.31	113.71	108.40
6	U	70	GLN	CB-CG-CD	5.31	121.63	112.60
3	C	1145	SER	O-C-N	5.31	129.29	122.39
4	E	342	ARG	NH1-CZ-NH2	-5.31	112.40	119.30
6	P	576	PHE	O-C-N	5.31	127.61	122.09
5	T	250	HIS	CA-CB-CG	5.31	119.11	113.80
6	V	428	ARG	NE-CZ-NH1	-5.31	116.19	121.50
6	W	174	ILE	CA-C-O	5.31	127.59	120.69
1	A	208	SER	CA-CB-OG	5.31	121.72	111.10
1	A	381	PHE	CA-C-O	-5.31	112.89	120.16
1	A	831	LEU	N-CA-C	5.31	117.48	109.41
1	A	876	GLN	CA-CB-CG	5.31	124.72	114.10
1	A	1193	HIS	CA-CB-CG	5.31	119.11	113.80
3	C	1013	VAL	CB-CA-C	5.31	118.57	111.19
4	D	320	GLN	CB-CG-CD	-5.31	103.58	112.60
4	E	160	GLU	OE1-CD-OE2	5.31	135.64	122.90
5	F	12	ALA	O-C-N	5.31	127.54	122.07
5	F	81	SER	N-CA-C	5.31	117.07	111.28
6	K	24	SER	CA-C-N	5.31	127.39	120.28
6	K	24	SER	C-N-CA	5.31	127.39	120.28
6	K	48	TRP	CA-C-O	-5.31	114.82	121.46
6	O	397	VAL	O-C-N	5.31	129.37	121.99
5	S	220	ASP	O-C-N	5.31	128.25	122.20
6	U	165	THR	CA-CB-OG1	5.31	117.56	109.60
6	W	513	HIS	N-CA-C	5.31	116.75	111.07
2	B	656	PHE	CA-C-N	5.31	126.53	120.53
2	B	656	PHE	C-N-CA	5.31	126.53	120.53
2	B	1021	VAL	CA-C-N	5.31	126.47	119.84
2	B	1021	VAL	C-N-CA	5.31	126.47	119.84
3	C	809	ALA	N-CA-CB	5.31	119.46	110.49
5	F	164	ASP	CA-C-N	5.31	131.68	121.54
5	F	164	ASP	C-N-CA	5.31	131.68	121.54
5	H	231	HIS	CB-CG-ND1	5.31	130.66	122.70
6	I	612	SER	CA-C-N	5.31	131.68	121.54
6	I	612	SER	C-N-CA	5.31	131.68	121.54
6	J	505	ASP	N-CA-C	5.31	117.55	108.90
6	K	36	LEU	N-CA-C	5.31	117.67	110.88
6	K	163	LEU	N-CA-C	5.31	117.48	111.11
6	O	243	ASN	OD1-CG-ND2	-5.31	117.29	122.60
6	Q	148	THR	N-CA-C	5.31	116.75	111.07
6	Q	576	PHE	O-C-N	5.31	127.61	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	W	141	GLN	CA-CB-CG	5.31	124.71	114.10
6	W	269	LYS	CA-C-N	5.31	130.09	122.40
6	W	269	LYS	C-N-CA	5.31	130.09	122.40
1	A	1132	THR	CA-C-O	-5.31	114.65	120.70
2	B	294	ARG	CA-C-N	-5.31	113.65	120.65
2	B	294	ARG	C-N-CA	-5.31	113.65	120.65
2	B	532	ILE	CA-CB-CG1	5.31	119.42	110.40
6	I	149	ILE	N-CA-CB	-5.31	103.32	110.54
6	O	262	ALA	O-C-N	5.31	127.53	122.07
5	S	197	VAL	O-C-N	-5.31	117.53	123.26
1	A	20	ARG	NH1-CZ-NH2	-5.30	112.41	119.30
1	A	412	GLN	O-C-N	-5.30	116.50	122.12
2	B	867	ALA	N-CA-C	5.30	120.12	111.37
5	M	163	GLY	O-C-N	5.30	129.59	122.70
6	Q	456	ASN	N-CA-C	5.30	118.86	109.58
6	U	284	VAL	N-CA-CB	-5.30	103.78	110.57
6	V	202	THR	CA-CB-OG1	5.30	117.56	109.60
6	V	451	SER	N-CA-C	5.30	122.10	110.80
6	W	342	ASN	OD1-CG-ND2	5.30	127.90	122.60
5	Y	1	MET	CA-CB-CG	5.30	124.71	114.10
5	Y	145	ARG	NH1-CZ-NH2	-5.30	112.40	119.30
4	E	261	ALA	N-CA-C	5.30	122.09	110.80
5	L	76	ASN	O-C-N	5.30	127.82	122.09
5	S	45	ARG	CA-C-O	-5.30	112.93	120.51
5	T	262	CYS	O-C-N	5.30	127.74	122.12
6	U	362	THR	CA-CB-OG1	5.30	117.55	109.60
6	V	253	VAL	CA-CB-CG2	5.30	119.42	110.40
1	A	371	PRO	CB-CA-C	-5.30	104.91	111.64
1	A	551	ILE	N-CA-C	5.30	116.11	108.48
2	B	393	ALA	CA-C-O	5.30	126.36	120.63
2	B	473	VAL	CA-C-O	-5.30	114.90	120.57
3	C	1199	PHE	N-CA-C	5.30	117.92	109.81
6	I	131	VAL	N-CA-C	5.30	115.15	106.72
6	I	641	ILE	O-C-N	5.30	127.01	121.87
6	O	247	SER	O-C-N	5.30	129.64	122.59
5	R	246	THR	O-C-N	5.30	130.12	123.12
6	U	408	ALA	O-C-N	5.30	129.45	122.93
6	W	92	TRP	CE2-CD2-CE3	5.30	124.10	118.80
5	Y	220	ASP	O-C-N	5.30	128.25	122.20
5	Y	221	LEU	CD1-CG-CD2	-5.30	99.14	110.80
1	A	748	ARG	N-CA-CB	-5.30	102.93	110.46
2	B	265	PRO	N-CA-CB	5.30	108.22	103.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	966	SER	O-C-N	5.30	129.12	122.23
5	G	81	SER	N-CA-C	5.30	117.06	111.28
6	I	638	PHE	CB-CA-C	-5.30	101.99	110.79
6	J	573	ALA	CA-C-O	5.30	126.57	120.90
6	K	202	THR	CA-CB-OG1	5.30	117.55	109.60
5	L	52	CYS	N-CA-CB	-5.30	102.47	111.27
6	O	371	PRO	CB-CA-C	5.30	118.60	111.71
6	Q	44	THR	N-CA-CB	5.30	120.51	111.50
5	T	41	VAL	CA-C-N	5.30	131.66	121.54
5	T	41	VAL	C-N-CA	5.30	131.66	121.54
6	X	31	ALA	O-C-N	5.30	126.46	120.68
6	X	583	ALA	N-CA-C	5.30	117.80	111.71
6	Q	297	ALA	O-C-N	-5.30	115.54	122.59
2	B	878	GLY	N-CA-C	5.30	125.73	113.18
2	B	980	GLY	N-CA-C	5.30	119.33	111.76
2	B	1111	GLY	N-CA-C	5.30	118.80	110.91
3	C	663	GLN	CA-CB-CG	5.30	124.69	114.10
4	E	4	ARG	CD-NE-CZ	5.30	131.81	124.40
5	G	157	HIS	CG-CD2-NE2	5.30	112.50	107.20
6	I	154	ARG	CG-CD-NE	5.30	123.65	112.00
6	I	340	ASP	N-CA-CB	-5.30	103.42	110.57
6	J	621	SER	O-C-N	5.30	127.73	122.12
6	K	226	LYS	N-CA-C	5.30	120.06	111.37
6	K	293	SER	CA-C-O	-5.30	114.63	120.30
5	M	31	GLU	O-C-N	5.30	129.73	123.27
5	M	149	GLN	N-CA-CB	-5.30	103.53	111.64
5	R	69	HIS	CA-C-O	5.30	126.57	120.90
5	R	150	ALA	N-CA-C	5.30	122.08	110.80
6	U	598	SER	N-CA-CB	-5.30	102.33	110.12
6	W	630	LEU	O-C-N	5.30	127.53	122.07
3	C	769	VAL	CA-C-O	-5.29	112.85	119.95
4	D	276	HIS	ND1-CE1-NE2	5.29	113.69	108.40
5	N	28	THR	N-CA-C	5.29	119.84	112.90
6	P	340	ASP	N-CA-CB	-5.29	103.42	110.57
5	R	264	GLN	N-CA-C	5.29	122.08	110.80
5	S	171	HIS	CE1-NE2-CD2	-5.29	103.70	109.00
6	X	537	SER	CA-C-N	5.29	127.69	120.54
6	X	537	SER	C-N-CA	5.29	127.69	120.54
2	B	444	TRP	CH2-CZ2-CE2	5.29	124.38	117.50
6	J	153	MET	CA-C-N	-5.29	110.70	121.18
6	J	153	MET	C-N-CA	-5.29	110.70	121.18
6	J	216	PRO	CA-N-CD	-5.29	104.59	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	K	33	ALA	CA-C-N	-5.29	113.84	122.57
6	K	33	ALA	C-N-CA	-5.29	113.84	122.57
6	K	67	ARG	O-C-N	5.29	129.63	122.59
6	K	505	ASP	N-CA-C	5.29	117.53	108.90
6	O	131	VAL	N-CA-C	5.29	115.14	106.72
6	O	327	TYR	CA-CB-CG	5.29	123.43	113.90
6	V	149	ILE	N-CA-CB	-5.29	103.34	110.54
6	V	261	GLN	N-CA-C	5.29	117.05	111.28
6	V	400	ALA	N-CA-C	5.29	117.51	108.67
5	Y	248	ALA	N-CA-C	5.29	117.44	109.23
1	A	272	ASP	CA-CB-CG	5.29	117.89	112.60
6	I	572	ALA	N-CA-C	5.29	117.96	111.82
6	J	604	VAL	O-C-N	5.29	127.08	121.89
5	M	11	HIS	CE1-NE2-CD2	-5.29	103.71	109.00
6	P	617	VAL	N-CA-C	5.29	120.35	109.34
5	R	57	ALA	CA-C-N	5.29	125.23	119.78
5	R	57	ALA	C-N-CA	5.29	125.23	119.78
5	R	69	HIS	CB-CG-CD2	-5.29	124.32	131.20
6	V	239	ALA	N-CA-C	5.29	118.52	111.75
3	C	289	ASN	CA-CB-CG	5.29	117.89	112.60
3	C	643	ALA	N-CA-C	5.29	117.13	111.36
3	C	650	TRP	N-CA-C	5.29	115.68	109.60
6	J	395	THR	CA-C-O	5.29	126.12	120.46
1	A	1058	ALA	CA-C-O	5.29	126.55	120.84
2	B	718	THR	CA-C-O	5.29	126.34	120.63
3	C	944	ASN	CB-CG-ND2	-5.29	108.47	116.40
6	J	411	VAL	CG1-CB-CG2	-5.29	99.17	110.80
6	Q	67	ARG	O-C-N	5.29	129.62	122.59
5	R	112	ALA	CA-C-O	-5.29	114.14	120.54
5	S	221	LEU	CD1-CG-CD2	-5.29	99.17	110.80
6	X	256	SER	CA-CB-OG	5.29	121.68	111.10
6	X	437	ILE	O-C-N	5.29	129.39	122.94
5	Y	50	ALA	O-C-N	5.29	128.41	122.22
1	A	301	ASN	OD1-CG-ND2	-5.29	117.31	122.60
1	A	919	PRO	N-CA-C	5.29	123.36	112.47
6	I	389	ALA	CA-C-N	5.29	127.62	120.38
6	I	389	ALA	C-N-CA	5.29	127.62	120.38
6	J	598	SER	CA-CB-OG	5.29	121.67	111.10
5	N	220	ASP	O-C-N	5.29	128.23	122.20
5	R	52	CYS	N-CA-CB	-5.29	102.49	111.27
6	X	380	VAL	O-C-N	5.29	125.78	120.92
2	B	849	ALA	N-CA-C	5.29	117.79	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	E	88	GLN	CA-C-O	5.29	128.07	120.51
5	G	150	ALA	N-CA-C	5.29	122.06	110.80
6	I	108	LEU	N-CA-CB	-5.29	101.56	110.49
6	J	73	PHE	CB-CA-C	5.29	117.41	110.06
5	N	199	ASP	N-CA-CB	5.29	119.42	110.49
6	O	258	THR	N-CA-C	-5.29	104.57	111.02
6	P	299	ILE	CA-CB-CG1	5.29	119.39	110.40
6	P	575	MET	CA-C-O	-5.29	115.24	120.90
5	T	248	ALA	N-CA-C	5.29	117.42	109.23
6	U	292	ARG	CD-NE-CZ	5.29	131.80	124.40
6	V	362	THR	CA-CB-OG1	5.29	117.53	109.60
1	A	213	ARG	NE-CZ-NH1	-5.28	116.22	121.50
1	A	921	ILE	CA-CB-CG2	5.28	119.48	110.50
5	L	150	ALA	N-CA-C	5.28	122.06	110.80
5	M	28	THR	N-CA-C	5.28	119.82	112.90
6	O	152	ARG	CB-CA-C	5.28	119.17	110.88
6	P	295	ARG	NE-CZ-NH1	-5.28	116.22	121.50
5	S	250	HIS	CA-CB-CG	5.28	119.08	113.80
5	T	92	ALA	CB-CA-C	5.28	118.99	109.64
6	U	617	VAL	N-CA-C	5.28	120.33	109.34
6	V	277	ASP	N-CA-C	5.28	119.65	112.04
6	V	405	ILE	CA-CB-CG1	5.28	119.38	110.40
6	W	449	THR	N-CA-C	5.28	117.85	109.24
6	W	548	LYS	CA-CB-CG	-5.28	103.53	114.10
1	A	399	ARG	NE-CZ-NH2	5.28	123.95	119.20
2	B	580	HIS	ND1-CE1-NE2	5.28	113.68	108.40
3	C	861	ARG	NE-CZ-NH2	-5.28	114.45	119.20
6	I	515	ASN	OD1-CG-ND2	-5.28	117.32	122.60
6	O	299	ILE	CA-CB-CG1	5.28	119.38	110.40
6	U	545	VAL	N-CA-C	5.28	118.52	111.44
6	W	216	PRO	N-CD-CG	5.28	111.12	103.20
6	X	430	THR	CA-CB-OG1	5.28	117.52	109.60
2	B	425	ASN	CA-C-O	5.28	128.21	122.03
6	K	346	ASP	N-CA-C	5.28	117.13	108.52
6	O	503	ALA	CA-C-N	5.28	131.62	121.54
6	O	503	ALA	C-N-CA	5.28	131.62	121.54
6	P	33	ALA	CA-C-O	5.28	126.91	120.99
6	P	434	ILE	CA-C-O	-5.28	112.87	119.95
5	S	131	ARG	CA-CB-CG	5.28	124.66	114.10
6	U	519	ASN	O-C-N	5.28	127.51	122.07
6	W	569	ALA	N-CA-CB	5.28	117.98	110.16
1	A	1021	ARG	NH1-CZ-NH2	-5.28	112.44	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	E	131	ASN	OD1-CG-ND2	-5.28	117.32	122.60
5	F	66	GLN	N-CA-C	5.28	117.03	111.28
6	O	284	VAL	O-C-N	5.28	127.39	121.90
5	T	183	ASP	CA-CB-CG	5.28	117.88	112.60
6	U	411	VAL	CA-C-O	-5.28	115.56	121.05
1	A	69	SER	CB-CA-C	-5.28	99.77	110.17
1	A	1079	ILE	O-C-N	5.28	129.17	122.57
2	B	262	ARG	O-C-N	5.28	129.50	123.27
2	B	666	ALA	O-C-N	-5.28	113.92	122.42
2	B	827	THR	CA-CB-OG1	5.28	117.52	109.60
5	G	48	ILE	CB-CG1-CD1	5.28	124.88	113.80
6	I	473	GLU	CA-CB-CG	5.28	124.65	114.10
6	I	626	ALA	N-CA-CB	-5.28	102.36	110.12
6	K	583	ALA	N-CA-C	5.28	117.78	111.71
5	L	197	VAL	O-C-N	-5.28	117.56	123.26
6	P	269	LYS	CA-C-N	5.28	129.84	122.08
6	P	269	LYS	C-N-CA	5.28	129.84	122.08
6	U	243	ASN	OD1-CG-ND2	-5.28	117.32	122.60
6	U	548	LYS	CA-CB-CG	-5.28	103.54	114.10
2	B	232	THR	CB-CA-C	5.28	115.39	110.17
2	B	751	CYS	N-CA-C	5.28	121.47	109.81
3	C	257	ARG	NE-CZ-NH2	5.28	123.95	119.20
5	H	55	THR	CA-C-O	5.28	127.18	121.06
5	M	195	LEU	O-C-N	5.28	129.36	122.87
6	Q	96	PHE	CD1-CG-CD2	5.28	126.51	118.60
5	T	10	ALA	N-CA-CB	5.28	117.88	110.12
5	T	48	ILE	CB-CG1-CD1	5.28	124.88	113.80
5	T	256	ASP	CA-CB-CG	-5.28	107.33	112.60
6	W	541	SER	N-CA-CB	-5.28	102.10	110.22
6	X	239	ALA	N-CA-C	5.28	117.78	111.71
5	Y	264	GLN	N-CA-C	5.28	122.04	110.80
1	A	198	ARG	O-C-N	5.27	125.95	121.20
5	T	48	ILE	O-C-N	5.27	128.05	122.67
1	A	308	THR	N-CA-C	5.27	117.11	111.36
1	A	406	ASN	OD1-CG-ND2	5.27	127.87	122.60
3	C	368	ILE	CA-CB-CG1	5.27	119.36	110.40
5	H	143	CYS	CA-C-O	5.27	126.87	121.07
6	K	252	LEU	O-C-N	5.27	127.57	122.09
6	K	594	SER	CA-C-N	5.27	125.95	119.99
6	K	594	SER	C-N-CA	5.27	125.95	119.99
5	R	12	ALA	O-C-N	5.27	127.71	122.12
5	S	264	GLN	N-CA-C	5.27	122.03	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	U	588	ILE	N-CA-C	-5.27	101.86	107.77
6	W	593	GLN	N-CA-CB	-5.27	102.49	110.35
5	Y	112	ALA	CA-C-O	-5.27	114.16	120.54
5	Y	168	PRO	N-CA-C	5.27	121.45	113.81
1	A	845	LEU	CA-C-O	5.27	125.37	119.41
3	C	358	GLN	O-C-N	-5.27	116.53	122.12
5	L	100	ASP	CA-CB-CG	-5.27	107.33	112.60
6	O	596	MET	N-CA-C	5.27	117.77	111.71
6	U	256	SER	CA-CB-OG	5.27	121.64	111.10
6	W	10	THR	CA-CB-OG1	5.27	117.51	109.60
4	E	158	HIS	CA-CB-CG	5.27	119.07	113.80
5	G	171	HIS	CG-CD2-NE2	5.27	112.47	107.20
5	H	171	HIS	CE1-NE2-CD2	-5.27	103.73	109.00
6	J	216	PRO	N-CD-CG	5.27	111.10	103.20
5	L	113	PRO	N-CD-CG	5.27	111.10	103.20
6	O	33	ALA	CA-C-N	-5.27	113.88	122.57
6	O	33	ALA	C-N-CA	-5.27	113.88	122.57
6	P	34	ILE	CA-C-O	-5.27	115.53	121.75
6	V	583	ALA	CA-C-O	5.27	126.06	120.10
6	W	113	THR	N-CA-C	5.27	118.65	110.17
6	X	147	ARG	CG-CD-NE	-5.27	100.41	112.00
5	H	168	PRO	N-CA-C	5.27	121.45	113.81
6	I	70	GLN	CB-CG-CD	5.27	121.56	112.60
6	K	215	TYR	CB-CG-CD2	5.27	128.70	120.80
5	T	45	ARG	NE-CZ-NH1	-5.27	116.23	121.50
6	U	451	SER	N-CA-C	5.27	122.02	110.80
6	W	242	PHE	O-C-N	5.27	128.75	122.27
5	G	69	HIS	CA-C-O	5.27	126.53	120.90
5	H	67	ASP	CA-CB-CG	5.27	117.87	112.60
6	K	473	GLU	CA-CB-CG	5.27	124.63	114.10
6	U	163	LEU	N-CA-C	5.27	117.43	111.11
6	U	481	VAL	CB-CA-C	5.27	118.93	110.82
6	W	421	HIS	O-C-N	5.27	129.86	123.01
1	A	166	THR	O-C-N	5.26	128.38	122.22
2	B	468	ALA	CA-C-N	5.26	127.33	120.28
2	B	468	ALA	C-N-CA	5.26	127.33	120.28
2	B	854	ASN	N-CA-C	5.26	117.43	111.11
2	B	903	HIS	CG-CD2-NE2	5.26	112.47	107.20
3	C	500	ILE	N-CA-CB	-5.26	104.66	111.82
4	D	294	THR	CA-C-O	-5.26	114.61	120.66
4	E	117	ASN	N-CA-C	5.26	117.10	108.52
6	J	70	GLN	N-CA-C	5.26	122.02	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	M	48	ILE	O-C-N	5.26	128.04	122.67
6	Q	593	GLN	OE1-CD-NE2	-5.26	117.34	122.60
5	T	113	PRO	N-CD-CG	5.26	111.10	103.20
6	V	452	SER	O-C-N	5.26	127.49	122.07
2	B	324	ILE	CA-C-N	5.26	131.26	122.73
2	B	324	ILE	C-N-CA	5.26	131.26	122.73
3	C	208	ASP	O-C-N	5.26	128.72	122.46
4	E	41	PHE	N-CA-C	5.26	116.70	111.07
5	G	247	PHE	CA-CB-CG	5.26	119.06	113.80
6	I	152	ARG	NE-CZ-NH2	5.26	123.94	119.20
6	U	154	ARG	O-C-N	5.26	129.48	122.43
6	V	575	MET	O-C-N	5.26	127.56	122.09
6	W	557	PRO	CB-CA-C	5.26	120.50	112.97
6	X	342	ASN	N-CA-C	5.26	117.91	108.17
6	X	395	THR	CA-C-O	5.26	126.09	120.46
1	A	59	ILE	CA-CB-CG1	5.26	119.34	110.40
3	C	572	ALA	N-CA-C	5.26	118.86	112.23
5	H	145	ARG	NH1-CZ-NH2	-5.26	112.46	119.30
5	H	232	GLN	N-CA-CB	-5.26	102.17	110.06
5	N	45	ARG	NE-CZ-NH1	-5.26	116.24	121.50
6	O	152	ARG	NE-CZ-NH2	5.26	123.94	119.20
6	P	638	PHE	CB-CA-C	-5.26	102.06	110.79
5	R	113	PRO	N-CA-C	5.26	119.13	110.55
6	V	184	LYS	O-C-N	5.26	127.71	122.08
1	A	554	PHE	CA-C-O	-5.26	114.60	120.54
1	A	670	SER	N-CA-C	5.26	117.94	110.10
1	A	1040	VAL	N-CA-C	5.26	120.24	108.88
1	A	1092	ALA	O-C-N	5.26	127.69	122.12
2	B	448	SER	O-C-N	5.26	127.69	122.12
2	B	788	VAL	N-CA-C	5.26	115.14	107.88
4	D	274	TRP	CD2-CE2-CZ2	-5.26	117.14	122.40
4	E	267	ILE	CA-C-O	-5.26	115.70	121.28
6	I	420	LEU	O-C-N	5.26	129.26	123.16
6	J	149	ILE	N-CA-CB	-5.26	103.39	110.54
5	S	31	GLU	O-C-N	5.26	129.69	123.27
6	W	23	THR	O-C-N	5.26	129.71	123.24
6	X	515	ASN	OD1-CG-ND2	-5.26	117.34	122.60
2	B	527	ALA	CA-C-O	5.26	126.04	120.10
2	B	1149	THR	O-C-N	5.26	129.46	123.31
4	D	217	GLY	N-CA-C	5.26	119.04	112.73
4	E	260	ALA	N-CA-C	5.26	117.27	108.23
6	J	15	GLY	CA-C-O	-5.26	115.89	121.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	K	48	TRP	CB-CA-C	-5.26	101.56	112.44
6	X	537	SER	CB-CA-C	-5.26	100.90	110.63
1	A	409	ILE	CG1-CB-CG2	5.26	126.47	110.70
3	C	1005	VAL	CA-CB-CG1	5.26	119.33	110.40
6	K	393	ALA	N-CA-C	5.26	117.22	108.02
5	L	28	THR	N-CA-C	5.26	119.78	112.90
6	O	425	THR	N-CA-C	5.26	122.00	110.80
6	P	113	THR	N-CA-C	5.26	118.63	110.17
6	P	179	ALA	O-C-N	5.26	130.03	123.19
6	P	342	ASN	N-CA-C	5.26	117.90	108.17
6	U	405	ILE	CA-CB-CG1	5.26	119.34	110.40
6	V	449	THR	N-CA-C	5.26	117.81	109.24
6	V	537	SER	CA-C-N	5.26	127.59	120.44
6	V	537	SER	C-N-CA	5.26	127.59	120.44
6	W	242	PHE	N-CA-CB	-5.26	102.13	110.28
6	W	377	GLN	N-CA-C	5.26	117.70	107.71
5	Y	58	PRO	N-CD-CG	5.26	111.08	103.20
4	E	362	TYR	N-CA-CB	-5.25	101.61	110.49
6	K	447	SER	O-C-N	5.25	126.07	121.18
6	U	216	PRO	N-CD-CG	5.25	111.08	103.20
6	X	25	ASP	CA-C-O	5.25	126.12	120.55
2	B	1103	TRP	CE3-CZ3-CH2	5.25	127.93	121.10
2	B	1117	PHE	N-CA-C	5.25	117.19	107.73
4	D	37	TRP	CA-C-O	-5.25	114.69	120.36
4	D	158	HIS	CA-CB-CG	5.25	119.05	113.80
4	E	171	THR	N-CA-C	5.25	117.75	111.71
5	H	41	VAL	CA-C-N	5.25	131.57	121.54
5	H	41	VAL	C-N-CA	5.25	131.57	121.54
5	H	275	SER	CA-C-O	5.25	128.02	120.51
6	I	598	SER	N-CA-CB	-5.25	102.40	110.12
6	K	598	SER	N-CA-CB	-5.25	102.40	110.12
5	M	246	THR	O-C-N	5.25	130.06	123.12
5	N	110	PHE	CA-C-O	-5.25	114.98	121.02
6	O	545	VAL	N-CA-C	5.25	118.48	111.44
5	R	11	HIS	CE1-NE2-CD2	-5.25	103.75	109.00
6	V	408	ALA	O-C-N	5.25	129.39	122.93
6	W	21	THR	CA-C-O	5.25	127.84	120.64
6	W	245	ALA	N-CA-C	5.25	117.96	110.24
6	W	362	THR	CA-CB-OG1	5.25	117.48	109.60
6	X	604	VAL	CA-CB-CG1	5.25	119.33	110.40
1	A	642	LEU	N-CA-C	5.25	116.97	108.41
2	B	747	ILE	N-CA-C	5.25	115.88	110.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	289	ASN	OD1-CG-ND2	5.25	127.85	122.60
3	C	821	ALA	N-CA-CB	5.25	117.84	110.12
3	C	960	ALA	N-CA-CB	-5.25	102.39	110.16
3	C	1181	THR	N-CA-C	5.25	117.85	110.23
4	D	64	ARG	NE-CZ-NH1	5.25	126.75	121.50
6	I	171	THR	O-C-N	5.25	127.36	121.32
6	I	634	LYS	O-C-N	5.25	127.48	122.07
6	Q	202	THR	CA-CB-OG1	5.25	117.48	109.60
5	S	59	HIS	O-C-N	5.25	127.69	122.12
6	W	456	ASN	N-CA-C	5.25	118.77	109.58
3	C	471	PRO	O-C-N	5.25	128.28	122.24
3	C	732	VAL	CG1-CB-CG2	-5.25	99.25	110.80
4	E	87	HIS	CA-C-O	-5.25	115.69	121.31
5	G	121	PRO	CB-CA-C	5.25	121.28	112.62
6	I	112	THR	CA-CB-OG1	5.25	117.48	109.60
6	K	24	SER	CA-C-O	5.25	126.08	120.20
6	O	216	PRO	CA-N-CD	-5.25	104.65	112.00
6	P	131	VAL	N-CA-C	5.25	115.07	106.72
6	Q	412	ARG	CB-CA-C	5.25	119.58	111.28
6	V	275	GLU	OE1-CD-OE2	5.25	135.50	122.90
6	V	327	TYR	CA-CB-CG	5.25	123.35	113.90
3	C	769	VAL	CA-CB-CG2	5.25	119.32	110.40
3	C	906	ASN	CA-C-O	5.25	127.16	121.02
3	C	990	ASN	CB-CG-ND2	5.25	124.27	116.40
4	E	308	TRP	O-C-N	5.25	127.68	122.12
5	G	256	ASP	CA-CB-CG	-5.25	107.35	112.60
5	H	211	ALA	CB-CA-C	5.25	119.21	110.81
6	J	493	GLN	N-CA-C	5.25	117.16	108.13
6	K	638	PHE	CB-CA-C	-5.25	102.08	110.79
6	O	338	VAL	CA-C-N	-5.25	114.56	122.01
6	O	338	VAL	C-N-CA	-5.25	114.56	122.01
5	S	74	GLN	OE1-CD-NE2	-5.25	117.35	122.60
6	U	179	ALA	O-C-N	5.25	130.01	123.19
6	V	641	ILE	O-C-N	5.25	126.96	121.87
2	B	811	LEU	CA-C-N	5.25	126.40	119.84
2	B	811	LEU	C-N-CA	5.25	126.40	119.84
3	C	644	GLU	N-CA-C	5.25	117.00	111.28
3	C	956	HIS	ND1-CE1-NE2	5.25	113.65	108.40
3	C	1161	ASN	CA-C-O	-5.25	115.23	121.89
6	J	362	THR	N-CA-CB	5.25	119.36	110.49
6	K	299	ILE	CA-CB-CG1	5.25	119.32	110.40
6	K	516	LYS	N-CA-C	5.25	117.00	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	M	65	ILE	O-C-N	5.25	127.73	121.80
6	W	121	ALA	CB-CA-C	-5.25	102.42	110.81
6	W	202	THR	CA-CB-OG1	5.25	117.47	109.60
6	W	593	GLN	N-CA-C	5.25	117.22	107.99
1	A	58	VAL	CB-CA-C	5.25	119.89	111.29
3	C	882	PRO	O-C-N	5.25	129.51	123.01
4	D	12	ASN	OD1-CG-ND2	5.25	127.84	122.60
4	D	152	ASP	CB-CG-OD1	5.25	130.47	118.40
6	I	318	LYS	N-CA-C	5.25	116.80	108.67
6	K	39	GLY	O-C-N	5.25	129.52	122.70
6	V	147	ARG	NH1-CZ-NH2	5.25	126.12	119.30
6	V	175	SER	CA-C-O	5.25	125.84	119.49
6	W	389	ALA	CA-C-N	5.25	127.57	120.38
6	W	389	ALA	C-N-CA	5.25	127.57	120.38
6	W	417	PHE	CB-CA-C	-5.25	102.61	110.16
1	A	12	LYS	N-CA-C	5.24	116.96	108.41
1	A	92	ALA	O-C-N	5.24	127.68	122.12
1	A	129	ARG	NE-CZ-NH1	-5.24	116.26	121.50
2	B	947	ARG	NE-CZ-NH1	-5.24	116.26	121.50
6	I	506	ALA	CA-C-O	-5.24	113.01	120.51
6	J	160	GLN	CB-CA-C	5.24	119.20	110.81
6	J	450	SER	N-CA-CB	5.24	119.35	110.49
5	L	192	THR	CA-CB-CG2	5.24	119.41	110.50
5	N	150	ALA	N-CA-C	5.24	121.97	110.80
6	P	39	GLY	O-C-N	5.24	129.52	122.70
6	Q	538	ALA	N-CA-C	5.24	116.68	111.07
6	W	262	ALA	CA-C-O	-5.24	115.31	120.82
6	W	438	TYR	CA-C-O	-5.24	115.31	121.44
6	X	152	ARG	NE-CZ-NH2	5.24	123.92	119.20
6	X	327	TYR	CA-CB-CG	5.24	123.34	113.90
1	A	616	SER	CA-C-O	-5.24	114.09	120.54
1	A	815	TYR	O-C-N	5.24	127.68	122.12
2	B	483	VAL	N-CA-C	5.24	119.74	112.35
2	B	1064	TRP	CA-CB-CG	5.24	123.56	113.60
3	C	1160	GLU	CB-CG-CD	5.24	121.51	112.60
6	P	644	LEU	N-CA-C	5.24	118.83	112.23
5	T	90	GLN	CG-CD-OE1	-5.24	110.32	120.80
6	V	33	ALA	CA-C-N	-5.24	113.92	122.57
6	V	33	ALA	C-N-CA	-5.24	113.92	122.57
3	C	301	LEU	CA-C-O	5.24	126.11	120.55
3	C	861	ARG	N-CA-CB	5.24	117.78	109.82
4	D	11	TYR	N-CA-C	5.24	118.04	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	D	111	VAL	N-CA-C	5.24	120.24	109.34
4	D	224	ASN	N-CA-CB	-5.24	102.27	111.49
5	F	131	ARG	CA-CB-CG	5.24	124.58	114.10
6	I	645	TRP	CA-CB-CG	5.24	123.56	113.60
5	N	12	ALA	N-CA-CB	-5.24	102.41	110.01
5	R	195	LEU	O-C-N	5.24	129.32	122.87
6	X	340	ASP	N-CA-CB	-5.24	103.50	110.57
1	A	408	THR	N-CA-C	5.24	117.99	107.41
3	C	352	THR	CA-CB-CG2	5.24	119.41	110.50
5	F	71	CYS	N-CA-C	5.24	121.96	110.80
5	G	141	THR	OG1-CB-CG2	5.24	119.78	109.30
6	J	377	GLN	OE1-CD-NE2	-5.24	117.36	122.60
6	P	67	ARG	O-C-N	5.24	129.56	122.59
6	P	252	LEU	O-C-N	5.24	127.47	122.07
6	P	280	LEU	O-C-N	5.24	127.17	121.36
6	Q	425	THR	N-CA-C	5.24	121.96	110.80
1	A	405	ARG	NE-CZ-NH2	-5.24	114.49	119.20
1	A	739	VAL	N-CA-C	5.24	119.73	112.35
2	B	292	ALA	CA-C-O	5.24	125.98	119.12
2	B	338	GLU	O-C-N	5.24	129.55	122.59
3	C	20	ASN	N-CA-C	5.24	118.45	111.75
3	C	855	GLN	OE1-CD-NE2	-5.24	117.36	122.60
3	C	892	ASP	CA-C-O	-5.24	113.02	120.51
4	D	144	ILE	CA-CB-CG1	5.24	119.30	110.40
4	D	369	HIS	CB-CG-CD2	-5.24	124.39	131.20
6	J	555	ALA	CA-C-O	-5.24	116.02	121.99
5	N	21	ARG	NE-CZ-NH2	5.24	123.91	119.20
6	P	146	GLN	N-CA-C	5.24	117.39	111.11
6	Q	503	ALA	CA-C-N	5.24	131.54	121.54
6	Q	503	ALA	C-N-CA	5.24	131.54	121.54
6	Q	617	VAL	N-CA-C	5.24	120.23	109.34
5	T	139	SER	N-CA-C	5.24	117.41	111.02
1	A	1126	THR	N-CA-C	5.23	117.26	108.73
4	D	187	GLN	O-C-N	-5.23	116.65	122.09
6	I	437	ILE	O-C-N	5.23	129.32	122.94
6	Q	389	ALA	CA-C-N	5.23	127.29	120.28
6	Q	389	ALA	C-N-CA	5.23	127.29	120.28
5	S	223	THR	CA-CB-CG2	5.23	119.40	110.50
6	X	108	LEU	N-CA-CB	-5.23	101.64	110.49
1	A	1048	CYS	CA-C-O	-5.23	115.45	121.47
1	A	1142	ARG	N-CA-C	5.23	121.94	110.80
5	G	199	ASP	N-CA-CB	5.23	119.33	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	L	67	ASP	N-CA-C	5.23	117.73	111.71
6	Q	21	THR	N-CA-C	5.23	118.68	108.21
6	Q	175	SER	CA-C-O	5.23	125.82	119.49
6	U	272	ASP	CB-CA-C	5.23	120.83	110.42
6	U	327	TYR	CA-CB-CG	5.23	123.32	113.90
6	U	493	GLN	N-CA-C	5.23	117.13	108.13
6	V	456	ASN	N-CA-C	5.23	118.74	109.58
6	W	405	ILE	CA-CB-CG1	5.23	119.30	110.40
1	A	1002	ILE	N-CA-C	5.23	115.96	110.62
1	A	1221	PHE	CA-CB-CG	5.23	119.03	113.80
6	J	545	VAL	N-CA-C	5.23	118.45	111.44
6	O	284	VAL	N-CA-CB	-5.23	103.88	110.57
5	S	149	GLN	CG-CD-NE2	-5.23	108.56	116.40
6	U	35	ASP	N-CA-C	5.23	117.75	109.96
6	X	152	ARG	CB-CA-C	5.23	119.09	110.88
1	A	293	THR	O-C-N	5.23	129.54	122.59
1	A	1086	ALA	O-C-N	5.23	129.65	123.27
1	A	1121	PRO	N-CD-CG	5.23	111.04	103.20
2	B	194	ILE	N-CA-CB	5.23	117.13	112.06
2	B	397	HIS	CE1-NE2-CD2	-5.23	103.77	109.00
6	J	115	THR	CA-CB-CG2	5.23	119.39	110.50
6	K	285	PHE	CA-C-O	-5.23	114.44	120.24
6	V	394	ILE	N-CA-CB	5.23	117.62	111.66
6	W	139	THR	CA-CB-OG1	5.23	117.44	109.60
6	W	529	SER	CA-C-O	-5.23	113.03	120.51
2	B	557	ILE	CA-C-O	5.23	127.31	120.78
2	B	1093	SER	N-CA-C	5.23	121.94	110.80
3	C	512	SER	O-C-N	5.23	127.66	122.12
3	C	686	ARG	NH1-CZ-NH2	-5.23	112.50	119.30
4	D	268	ARG	N-CA-C	5.23	118.08	109.72
5	G	12	ALA	O-C-N	5.23	127.45	122.07
5	H	149	GLN	N-CA-CB	-5.23	103.64	111.64
6	K	318	LYS	CB-CG-CD	5.23	123.33	111.30
6	O	352	ASP	O-C-N	5.23	130.91	122.96
6	O	391	ILE	CA-CB-CG2	5.23	119.39	110.50
6	O	573	ALA	CA-C-O	5.23	126.49	120.90
6	P	284	VAL	N-CA-CB	-5.23	103.88	110.57
6	V	152	ARG	CB-CA-C	5.23	119.09	110.88
6	V	179	ALA	O-C-N	5.23	129.99	123.19
6	V	292	ARG	CD-NE-CZ	5.23	131.72	124.40
6	W	428	ARG	NE-CZ-NH1	-5.23	116.27	121.50
6	O	149	ILE	N-CA-CB	-5.23	103.43	110.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	O	244	ALA	N-CA-C	5.23	118.14	109.46
5	T	143	CYS	CA-C-O	5.23	126.82	121.07
1	A	54	ARG	N-CA-C	5.22	118.08	109.72
1	A	149	THR	OG1-CB-CG2	5.22	119.75	109.30
1	A	191	PRO	N-CA-C	5.22	119.52	111.21
3	C	676	VAL	CB-CA-C	5.22	118.36	110.63
6	I	394	ILE	N-CA-CB	5.22	117.62	111.66
6	J	408	ALA	O-C-N	5.22	129.36	122.93
5	L	48	ILE	O-C-N	5.22	128.00	122.67
5	M	171	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
5	N	41	VAL	CA-C-N	5.22	131.52	121.54
5	N	41	VAL	C-N-CA	5.22	131.52	121.54
1	A	510	LEU	CA-C-O	-5.22	115.06	120.70
1	A	815	TYR	N-CA-CB	-5.22	102.44	110.12
3	C	1114	PRO	CA-C-N	-5.22	118.83	122.59
3	C	1114	PRO	C-N-CA	-5.22	118.83	122.59
3	C	1163	ALA	O-C-N	-5.22	116.57	122.68
4	D	255	ARG	CB-CG-CD	5.22	123.31	111.30
4	E	322	VAL	N-CA-CB	5.22	120.63	110.45
6	J	538	ALA	O-C-N	5.22	127.73	122.09
6	P	35	ASP	N-CA-C	5.22	117.74	109.96
6	P	573	ALA	CA-C-O	5.22	126.49	120.90
6	Q	70	GLN	N-CA-C	5.22	121.92	110.80
6	Q	434	ILE	CA-C-O	-5.22	112.95	119.95
6	Q	469	VAL	CB-CA-C	-5.22	105.19	111.88
5	T	112	ALA	CA-C-O	-5.22	114.22	120.54
6	U	641	ILE	O-C-N	5.22	126.94	121.87
6	X	621	SER	N-CA-C	5.22	117.65	111.33
1	A	1265	ALA	N-CA-CB	-5.22	102.65	110.17
5	H	241	ALA	N-CA-CB	-5.22	101.04	109.60
6	I	575	MET	CA-C-O	-5.22	115.31	120.90
6	K	612	SER	CA-C-N	5.22	131.51	121.54
6	K	612	SER	C-N-CA	5.22	131.51	121.54
6	V	598	SER	CA-CB-OG	5.22	121.54	111.10
6	X	503	ALA	CA-C-N	5.22	131.51	121.54
6	X	503	ALA	C-N-CA	5.22	131.51	121.54
1	A	1043	PRO	N-CA-CB	5.22	108.73	103.25
2	B	1143	ASN	O-C-N	-5.22	114.06	122.41
3	C	670	ILE	O-C-N	5.22	126.11	121.41
3	C	1133	VAL	N-CA-C	5.22	115.02	106.72
4	E	214	ILE	O-C-N	5.22	126.93	121.87
6	K	184	LYS	O-C-N	5.22	127.52	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	N	40	TYR	N-CA-C	5.22	119.43	107.48
6	O	451	SER	N-CA-C	5.22	121.92	110.80
6	P	145	LEU	N-CA-C	5.22	116.66	110.97
6	V	262	ALA	O-C-N	5.22	127.45	122.07
6	V	418	ASN	N-CA-CB	5.22	119.31	110.49
6	V	579	ASN	CB-CA-C	5.22	117.14	110.98
5	Y	4	HIS	O-C-N	5.22	129.49	123.17
1	A	242	PRO	CA-C-O	-5.22	115.46	121.36
3	C	836	HIS	CA-C-O	5.22	126.48	121.00
6	Q	12	ASN	CA-CB-CG	5.22	117.82	112.60
5	S	28	THR	N-CA-C	5.22	119.74	112.90
6	U	125	ASP	N-CA-CB	5.22	117.79	110.12
6	W	67	ARG	O-C-N	5.22	129.53	122.59
1	A	83	ASP	CB-CA-C	5.22	119.72	110.85
1	A	343	GLU	N-CA-C	5.22	118.06	109.72
1	A	795	PRO	N-CD-CG	5.22	111.03	103.20
4	D	358	ASP	O-C-N	-5.22	116.67	122.09
4	D	373	MET	CA-C-O	-5.22	115.33	120.70
4	D	375	VAL	CA-CB-CG1	5.22	119.27	110.40
5	H	219	HIS	CG-ND1-CE1	-5.22	100.43	109.30
6	I	291	PRO	CA-C-O	-5.22	115.59	121.43
6	Q	532	ASP	CA-CB-CG	5.22	117.82	112.60
6	V	108	LEU	N-CA-CB	-5.22	101.67	110.49
2	B	638	LEU	CA-C-O	5.21	126.08	120.55
2	B	1081	TYR	N-CA-C	5.21	116.21	108.60
2	B	1128	ILE	CA-CB-CG2	5.21	119.36	110.50
3	C	54	VAL	O-C-N	5.21	129.02	122.66
3	C	481	ARG	NE-CZ-NH2	5.21	123.89	119.20
3	C	483	VAL	O-C-N	5.21	127.14	121.87
5	F	45	ARG	CA-C-O	-5.21	113.06	120.51
6	J	13	ILE	O-C-N	5.21	127.69	121.80
6	J	209	ASN	O-C-N	5.21	127.51	122.09
6	K	598	SER	CB-CA-C	5.21	119.44	110.79
5	L	149	GLN	CG-CD-NE2	-5.21	108.58	116.40
5	L	231	HIS	N-CA-C	5.21	118.42	111.75
6	P	107	VAL	CB-CA-C	5.21	119.84	111.29
6	P	112	THR	CA-CB-OG1	5.21	117.42	109.60
6	Q	27	THR	CA-C-N	-5.21	111.58	121.54
6	Q	27	THR	C-N-CA	-5.21	111.58	121.54
5	R	198	HIS	ND1-CG-CD2	5.21	111.31	106.10
5	S	48	ILE	CB-CG1-CD1	5.21	124.75	113.80
5	T	219	HIS	CG-ND1-CE1	-5.21	100.43	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	Y	65	ILE	O-C-N	5.21	127.69	121.80
5	Y	185	VAL	CA-CB-CG1	5.21	119.26	110.40
2	B	621	TRP	CG-CD1-NE1	5.21	116.98	110.20
2	B	998	PRO	O-C-N	5.21	129.68	122.64
4	D	396	GLN	N-CA-C	5.21	121.90	110.80
5	F	182	HIS	CB-CA-C	5.21	119.84	111.66
5	H	4	HIS	ND1-CE1-NE2	5.21	113.61	108.40
6	P	510	VAL	CA-C-O	-5.21	115.26	121.05
5	G	185	VAL	CA-CB-CG1	5.21	119.26	110.40
5	H	76	ASN	O-C-N	5.21	127.72	122.09
6	O	165	THR	CA-CB-CG2	5.21	119.36	110.50
6	O	270	ASP	CA-CB-CG	5.21	117.81	112.60
6	V	191	LYS	N-CA-C	5.21	119.49	113.18
6	V	208	TYR	N-CA-C	5.21	116.64	111.07
6	V	567	ARG	CA-C-O	-5.21	114.90	120.42
3	C	67	ALA	CA-C-O	-5.21	114.86	119.86
6	I	154	ARG	O-C-N	5.21	129.41	122.43
6	X	171	THR	O-C-N	5.21	127.31	121.32
1	A	83	ASP	CA-CB-CG	5.21	117.81	112.60
3	C	523	ASN	N-CA-C	5.21	119.20	113.21
3	C	1144	ASP	O-C-N	5.21	128.68	122.27
4	D	258	PRO	N-CA-C	5.21	117.05	110.70
4	E	294	THR	O-C-N	-5.21	116.83	123.24
5	F	69	HIS	CA-C-O	5.21	126.47	120.90
5	F	76	ASN	O-C-N	5.21	127.72	122.09
5	G	149	GLN	N-CA-CB	-5.21	103.67	111.64
6	P	194	LEU	O-C-N	5.21	126.66	121.30
6	V	171	THR	O-C-N	5.21	127.31	121.32
6	W	152	ARG	NE-CZ-NH2	5.21	123.89	119.20
6	X	12	ASN	CB-CA-C	5.21	116.21	109.80
6	X	147	ARG	NH1-CZ-NH2	5.21	126.07	119.30
2	B	674	ARG	O-C-N	5.21	129.43	123.29
4	D	157	TYR	CB-CG-CD2	-5.21	112.99	120.80
5	F	185	VAL	CA-CB-CG1	5.21	119.25	110.40
5	H	198	HIS	ND1-CG-CD2	5.21	111.31	106.10
6	J	139	THR	CA-CB-OG1	5.21	117.41	109.60
5	N	272	VAL	CA-C-O	5.21	124.82	119.35
1	A	231	ASP	N-CA-CB	5.21	119.29	110.49
6	U	248	GLU	CB-CA-C	5.21	118.41	109.15
5	Y	163	GLY	O-C-N	5.21	129.47	122.70
1	A	40	HIS	CB-CG-ND1	5.20	130.50	122.70
1	A	288	SER	N-CA-C	5.20	117.58	109.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	474	GLU	CB-CG-CD	5.20	121.45	112.60
2	B	761	VAL	CA-CB-CG1	5.20	119.25	110.40
4	D	372	ALA	CA-C-O	5.20	126.07	120.55
5	G	192	THR	CA-CB-CG2	5.20	119.35	110.50
6	I	141	GLN	CA-CB-CG	5.20	124.51	114.10
6	I	621	SER	O-C-N	5.20	127.64	122.12
5	L	58	PRO	N-CD-CG	5.20	111.00	103.20
5	R	48	ILE	O-C-N	5.20	127.98	122.67
5	R	247	PHE	CA-CB-CG	5.20	119.00	113.80
5	T	275	SER	CA-C-O	5.20	127.95	120.51
5	L	185	VAL	CA-CB-CG1	5.20	119.24	110.40
5	L	231	HIS	CB-CG-ND1	5.20	130.50	122.70
1	A	482	PRO	CA-N-CD	-5.20	104.72	112.00
2	B	986	GLN	N-CA-CB	-5.20	101.70	110.49
3	C	889	ARG	NE-CZ-NH1	-5.20	116.30	121.50
4	D	222	ARG	CA-C-N	5.20	130.18	123.00
4	D	222	ARG	C-N-CA	5.20	130.18	123.00
6	I	425	THR	N-CA-C	5.20	121.88	110.80
6	O	36	LEU	N-CA-C	5.20	117.54	110.88
5	R	201	HIS	CG-CD2-NE2	5.20	112.40	107.20
6	V	216	PRO	N-CD-CG	5.20	111.00	103.20
6	V	391	ILE	CA-CB-CG2	5.20	119.34	110.50
5	Y	71	CYS	N-CA-C	5.20	121.88	110.80
1	A	1038	ASN	O-C-N	5.20	126.14	121.04
2	B	698	SER	CA-CB-OG	5.20	121.50	111.10
3	C	950	VAL	CA-C-O	5.20	123.20	119.25
4	D	252	ASP	CA-CB-CG	5.20	117.80	112.60
5	F	57	ALA	CA-C-N	5.20	125.13	119.78
5	F	57	ALA	C-N-CA	5.20	125.13	119.78
5	H	71	CYS	N-CA-C	5.20	121.87	110.80
6	J	417	PHE	CA-CB-CG	5.20	119.00	113.80
5	L	199	ASP	N-CA-CB	5.20	119.28	110.49
5	L	264	GLN	N-CA-C	5.20	121.87	110.80
5	N	145	ARG	NH1-CZ-NH2	-5.20	112.54	119.30
6	O	196	LEU	O-C-N	5.20	127.63	122.12
6	Q	21	THR	CA-C-O	5.20	127.76	120.64
6	Q	191	LYS	O-C-N	5.20	130.02	122.43
6	Q	596	MET	N-CA-C	5.20	117.69	111.71
6	W	15	GLY	CA-C-O	-5.20	115.95	121.88
5	Y	67	ASP	N-CA-C	5.20	117.69	111.71
1	A	101	GLN	CB-CA-C	5.20	119.47	110.84
1	A	1122	ARG	N-CA-C	5.20	119.62	113.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	1197	TYR	CD1-CE1-CZ	5.20	128.96	119.60
4	E	257	ALA	N-CA-CB	-5.20	101.81	110.02
6	J	35	ASP	N-CA-C	5.20	117.70	109.96
6	P	594	SER	CA-C-N	5.20	125.86	119.99
6	P	594	SER	C-N-CA	5.20	125.86	119.99
6	U	16	ASP	O-C-N	5.20	129.71	123.16
6	X	169	MET	CA-CB-CG	5.20	124.49	114.10
5	Y	41	VAL	CA-C-N	5.20	131.47	121.54
5	Y	41	VAL	C-N-CA	5.20	131.47	121.54
1	A	1147	THR	N-CA-CB	5.20	119.27	110.49
3	C	866	CYS	N-CA-C	5.20	117.02	111.36
5	G	66	GLN	N-CA-C	5.20	116.94	111.28
6	J	79	ARG	NH1-CZ-NH2	-5.20	112.55	119.30
6	J	473	GLU	CA-CB-CG	5.20	124.49	114.10
6	K	21	THR	N-CA-C	5.20	118.60	108.21
6	K	96	PHE	CD1-CG-CD2	5.20	126.39	118.60
6	K	559	PRO	CB-CA-C	-5.20	104.58	110.92
5	L	263	GLY	CA-C-N	5.20	131.46	121.54
5	L	263	GLY	C-N-CA	5.20	131.46	121.54
6	P	230	ALA	O-C-N	-5.20	117.33	123.25
5	R	10	ALA	N-CA-CB	5.20	117.76	110.12
6	V	141	GLN	CA-CB-CG	5.20	124.49	114.10
6	J	418	ASN	N-CA-CB	5.19	119.27	110.49
6	K	284	VAL	O-C-N	5.19	127.30	121.90
6	V	318	LYS	N-CA-C	5.19	116.72	108.67
6	V	593	GLN	N-CA-C	5.19	117.13	107.99
6	W	25	ASP	CA-C-O	5.19	126.06	120.55
6	W	408	ALA	O-C-N	5.19	129.32	122.93
1	A	676	ARG	CB-CA-C	5.19	119.12	110.81
3	C	500	ILE	CB-CA-C	5.19	117.43	110.42
4	D	15	GLY	O-C-N	5.19	126.72	122.51
4	E	69	ASN	OD1-CG-ND2	-5.19	117.41	122.60
4	E	226	SER	CB-CA-C	5.19	120.09	109.55
6	J	390	ASN	O-C-N	5.19	127.62	122.12
6	O	24	SER	CA-C-N	5.19	127.24	120.28
6	O	24	SER	C-N-CA	5.19	127.24	120.28
6	P	466	VAL	N-CA-CB	-5.19	104.52	110.49
6	P	551	GLN	CA-C-N	5.19	129.47	122.93
6	P	551	GLN	C-N-CA	5.19	129.47	122.93
6	Q	449	THR	N-CA-C	5.19	117.70	109.24
6	U	139	THR	CA-CB-OG1	5.19	117.39	109.60
6	X	191	LYS	N-CA-C	5.19	119.46	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	755	VAL	CB-CA-C	5.19	119.80	111.29
2	B	700	TRP	CE2-CD2-CE3	5.19	123.99	118.80
4	E	199	SER	N-CA-C	5.19	116.93	109.04
4	E	319	GLY	CA-C-N	5.19	131.45	121.54
4	E	319	GLY	C-N-CA	5.19	131.45	121.54
6	K	434	ILE	CA-C-O	-5.19	113.00	119.95
5	N	241	ALA	N-CA-CB	-5.19	101.09	109.60
6	Q	451	SER	N-CA-C	5.19	121.86	110.80
6	U	144	ASN	CA-CB-CG	5.19	117.79	112.60
6	U	377	GLN	OE1-CD-NE2	-5.19	117.41	122.60
2	B	737	ARG	N-CA-C	5.19	116.94	111.28
2	B	816	ALA	N-CA-C	5.19	119.88	111.37
6	J	24	SER	CA-C-N	5.19	127.23	120.28
6	J	24	SER	C-N-CA	5.19	127.23	120.28
6	J	252	LEU	O-C-N	5.19	127.49	122.09
6	J	417	PHE	CB-CA-C	-5.19	100.09	110.42
6	K	450	SER	N-CA-CB	5.19	119.26	110.49
5	M	231	HIS	CB-CG-ND1	5.19	130.48	122.70
6	O	237	GLU	N-CA-C	5.19	121.85	110.80
6	P	400	ALA	N-CA-C	5.19	117.34	108.67
6	W	534	SER	N-CA-CB	-5.19	101.72	110.49
6	W	575	MET	CA-C-O	-5.19	115.35	120.90
4	D	352	GLU	CB-CG-CD	5.19	121.42	112.60
5	G	52	CYS	N-CA-CB	-5.19	102.66	111.27
6	I	588	ILE	N-CA-C	-5.19	101.96	107.77
6	K	115	THR	CA-CB-CG2	5.19	119.32	110.50
6	K	272	ASP	CB-CA-C	5.19	120.74	110.42
5	N	192	THR	CA-CB-CG2	5.19	119.32	110.50
6	P	100	LYS	CB-CG-CD	-5.19	99.37	111.30
6	Q	569	ALA	N-CA-CB	5.19	117.84	110.16
5	T	185	VAL	CA-CB-CG1	5.19	119.22	110.40
1	A	1175	ARG	CA-C-O	-5.19	115.35	121.16
2	B	384	MET	O-C-N	5.19	128.97	123.42
3	C	159	SER	CB-CA-C	5.19	118.19	110.62
6	W	612	SER	CA-C-N	5.19	131.44	121.54
6	W	612	SER	C-N-CA	5.19	131.44	121.54
2	B	393	ALA	N-CA-CB	5.18	117.83	110.06
2	B	901	ILE	CA-CB-CG2	5.18	119.31	110.50
4	D	157	TYR	N-CA-CB	-5.18	101.98	110.43
4	E	165	PRO	N-CA-C	5.18	123.15	112.47
5	G	143	CYS	CA-C-O	5.18	126.77	121.07
6	I	175	SER	CA-C-O	5.18	125.76	119.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	253	VAL	CA-CB-CG2	5.18	119.21	110.40
6	K	126	ALA	N-CA-C	5.18	117.83	111.82
6	K	645	TRP	CA-CB-CG	5.18	123.45	113.60
5	L	267	GLY	CA-C-O	5.18	129.59	120.57
6	P	362	THR	N-CA-CB	5.18	119.25	110.49
6	P	395	THR	CA-C-O	5.18	126.01	120.46
5	T	100	ASP	CA-CB-CG	-5.18	107.42	112.60
6	V	84	LYS	O-C-N	5.18	127.61	122.12
6	V	237	GLU	N-CA-C	5.18	121.84	110.80
6	W	569	ALA	CA-C-O	-5.18	114.92	120.42
6	X	596	MET	N-CA-C	5.18	117.67	111.71
5	Y	241	ALA	N-CA-CB	-5.18	101.10	109.60
1	A	554	PHE	N-CA-C	5.18	118.06	109.46
2	B	251	SER	N-CA-C	5.18	117.14	108.23
2	B	583	VAL	CA-CB-CG1	5.18	119.21	110.40
2	B	1142	ASN	CA-CB-CG	-5.18	107.42	112.60
3	C	20	ASN	O-C-N	5.18	128.11	122.20
3	C	522	GLY	N-CA-C	5.18	125.46	113.18
3	C	946	VAL	O-C-N	5.18	129.88	122.62
5	H	40	TYR	N-CA-C	5.18	119.35	107.48
6	J	84	LYS	CG-CD-CE	-5.18	99.38	111.30
6	K	248	GLU	N-CA-C	5.18	120.47	114.04
6	K	420	LEU	O-C-N	5.18	129.17	123.16
5	L	8	GLN	CG-CD-NE2	-5.18	108.63	116.40
5	L	239	GLY	O-C-N	5.18	126.95	121.77
6	O	146	GLN	N-CA-C	5.18	117.33	111.11
6	X	84	LYS	O-C-N	5.18	127.61	122.12
6	X	148	THR	N-CA-C	5.18	116.62	111.07
4	D	282	ALA	N-CA-C	5.18	116.93	111.28
5	H	231	HIS	N-CA-C	5.18	118.38	111.75
6	K	396	VAL	CA-CB-CG2	5.18	119.21	110.40
5	N	66	GLN	N-CA-C	5.18	116.93	111.28
6	W	573	ALA	CA-C-O	5.18	126.44	120.90
2	B	684	LEU	CA-C-N	5.18	127.03	120.51
2	B	684	LEU	C-N-CA	5.18	127.03	120.51
4	D	66	ILE	N-CA-CB	-5.18	104.49	110.55
4	D	389	PHE	N-CA-CB	5.18	119.25	110.49
4	E	121	ASP	N-CA-C	5.18	117.01	109.71
4	E	142	VAL	N-CA-C	5.18	115.39	110.42
6	K	255	SER	CA-C-O	-5.18	115.04	120.63
6	K	618	THR	CA-CB-CG2	5.18	119.30	110.50
5	L	201	HIS	ND1-CE1-NE2	5.18	113.58	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	O	579	ASN	CA-CB-CG	-5.18	107.42	112.60
6	Q	452	SER	O-C-N	5.18	127.41	122.07
6	Q	638	PHE	CB-CA-C	-5.18	102.19	110.79
5	S	11	HIS	CE1-NE2-CD2	-5.18	103.82	109.00
6	W	373	PHE	CB-CA-C	5.18	118.68	109.72
6	X	121	ALA	N-CA-CB	5.18	117.69	109.82
1	A	103	TYR	CA-C-N	5.18	126.31	119.84
1	A	103	TYR	C-N-CA	5.18	126.31	119.84
3	C	1170	PRO	CA-C-O	-5.18	111.87	120.05
6	I	593	GLN	N-CA-CB	-5.18	102.64	110.35
6	J	513	HIS	N-CA-C	5.18	116.61	111.07
6	O	209	ASN	O-C-N	5.18	127.47	122.09
6	O	549	LEU	CB-CA-C	5.18	120.11	111.83
6	P	216	PRO	CA-N-CD	-5.18	104.75	112.00
6	P	598	SER	N-CA-CB	-5.18	102.51	110.12
6	U	449	THR	N-CA-C	5.18	117.68	109.24
5	Y	18	ALA	N-CA-C	5.18	117.83	111.82
5	Y	28	THR	N-CA-C	5.18	119.68	112.90
1	A	684	ARG	CG-CD-NE	5.18	123.39	112.00
4	E	264	SER	N-CA-C	5.18	117.86	109.06
6	I	573	ALA	CA-C-O	5.18	126.44	120.90
6	J	492	ASN	CA-CB-CG	5.18	117.78	112.60
6	O	278	THR	O-C-N	-5.18	115.02	121.70
5	S	23	THR	CA-CB-CG2	5.18	119.30	110.50
5	S	248	ALA	N-CA-C	5.18	117.25	109.23
6	U	503	ALA	CA-C-N	5.18	131.43	121.54
6	U	503	ALA	C-N-CA	5.18	131.43	121.54
6	U	576	PHE	O-C-N	5.18	127.47	122.09
6	W	243	ASN	OD1-CG-ND2	-5.18	117.42	122.60
6	W	400	ALA	N-CA-C	5.18	117.31	108.67
6	X	15	GLY	CA-C-O	-5.18	115.98	121.88
6	X	92	TRP	N-CA-C	5.18	118.91	112.59
6	X	583	ALA	CA-C-O	5.18	125.95	120.10
1	A	18	THR	N-CA-C	5.17	117.17	108.73
6	I	165	THR	CA-CB-OG1	5.17	117.36	109.60
6	K	576	PHE	O-C-N	5.17	127.47	122.09
6	W	527	VAL	CA-CB-CG1	5.17	119.20	110.40
6	X	112	THR	CA-CB-OG1	5.17	117.36	109.60
5	Y	150	ALA	N-CA-C	5.17	121.82	110.80
1	A	941	SER	N-CA-C	5.17	116.95	108.52
1	A	1114	THR	CA-CB-OG1	5.17	117.36	109.60
2	B	441	LEU	O-C-N	5.17	129.55	122.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	O	39	GLY	O-C-N	5.17	129.42	122.70
6	O	307	ILE	CA-C-O	5.17	127.25	120.78
6	Q	612	SER	CA-C-N	5.17	131.42	121.54
6	Q	612	SER	C-N-CA	5.17	131.42	121.54
5	T	145	ARG	NH1-CZ-NH2	-5.17	112.58	119.30
6	X	48	TRP	CB-CA-C	-5.17	101.73	112.44
5	Y	231	HIS	CB-CG-ND1	5.17	130.46	122.70
3	C	384	MET	CA-C-N	-5.17	116.78	123.19
3	C	384	MET	C-N-CA	-5.17	116.78	123.19
5	N	65	ILE	N-CA-C	5.17	117.55	111.09
6	O	493	GLN	N-CA-C	5.17	117.03	108.13
6	P	260	SER	O-C-N	-5.17	116.64	122.12
6	W	34	ILE	CA-C-O	-5.17	115.65	121.75
1	A	157	GLN	OE1-CD-NE2	5.17	127.77	122.60
1	A	658	VAL	CA-C-N	-5.17	114.95	122.65
1	A	658	VAL	C-N-CA	-5.17	114.95	122.65
1	A	560	HIS	ND1-CE1-NE2	5.17	113.57	108.40
1	A	779	MET	CG-SD-CE	-5.17	89.53	100.90
1	A	830	HIS	CG-CD2-NE2	5.17	112.37	107.20
2	B	846	ALA	CA-C-O	5.17	125.72	119.31
4	D	369	HIS	CG-CD2-NE2	5.17	112.37	107.20
4	D	392	ALA	CA-C-O	-5.17	113.12	120.51
4	E	267	ILE	N-CA-C	5.17	117.18	108.81
4	E	283	GLY	N-CA-C	5.17	125.43	113.18
6	I	28	SER	CA-CB-OG	5.17	121.44	111.10
6	P	154	ARG	O-C-N	5.17	129.59	122.46
6	Q	177	GLY	N-CA-C	5.17	117.55	111.35
6	Q	492	ASN	CA-CB-CG	5.17	117.77	112.60
6	U	15	GLY	CA-C-O	-5.17	115.99	121.88
6	U	396	VAL	CA-CB-CG2	5.17	119.19	110.40
6	V	256	SER	CA-CB-OG	5.17	121.44	111.10
1	A	487	ALA	CA-C-O	-5.17	115.38	120.80
2	B	999	VAL	CA-C-N	5.17	131.41	121.54
2	B	999	VAL	C-N-CA	5.17	131.41	121.54
3	C	143	ASP	CA-CB-CG	5.17	117.77	112.60
5	H	185	VAL	CA-CB-CG1	5.17	119.18	110.40
6	J	177	GLY	N-CA-C	5.17	117.55	111.35
6	J	256	SER	CA-CB-OG	5.17	121.43	111.10
6	J	307	ILE	CA-C-O	5.17	127.24	120.78
5	L	228	ASP	CA-CB-CG	5.17	117.77	112.60
6	P	10	THR	CA-CB-OG1	5.17	117.35	109.60
6	Q	262	ALA	CA-C-O	-5.17	115.40	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	R	248	ALA	N-CA-C	5.17	117.24	109.23
5	T	28	THR	N-CA-C	5.17	119.67	112.90
5	T	45	ARG	CA-C-O	-5.17	113.12	120.51
6	X	438	TYR	CA-C-O	-5.17	115.40	121.44
3	C	737	ARG	CA-C-O	-5.17	115.08	120.55
6	I	396	VAL	CA-CB-CG2	5.17	119.18	110.40
6	J	53	THR	N-CA-C	5.17	116.59	110.19
6	O	288	SER	O-C-N	5.17	129.11	123.22
6	Q	75	ASN	CA-C-O	-5.17	113.12	120.51
6	U	393	ALA	N-CA-C	5.17	117.06	108.02
1	A	888	ILE	N-CA-C	5.16	116.13	108.23
1	A	996	ASP	CA-C-O	5.16	126.21	120.63
2	B	475	ALA	CA-C-O	-5.16	115.08	120.55
3	C	123	ASN	CB-CG-ND2	-5.16	108.66	116.40
3	C	972	MET	N-CA-C	5.16	116.91	111.28
5	G	90	GLN	CG-CD-OE1	-5.16	110.47	120.80
5	H	50	ALA	O-C-N	5.16	128.26	122.22
6	I	645	TRP	CD2-CE2-CZ2	-5.16	117.24	122.40
6	K	191	LYS	O-C-N	5.16	129.97	122.43
6	O	54	SER	N-CA-CB	-5.16	101.76	110.49
6	O	363	ASN	CA-CB-CG	5.16	117.76	112.60
6	P	545	VAL	N-CA-C	5.16	118.36	111.44
6	Q	113	THR	N-CA-C	5.16	118.48	110.17
6	V	112	THR	CA-CB-OG1	5.16	117.35	109.60
6	X	185	SER	CA-C-N	5.16	127.47	120.65
6	X	185	SER	C-N-CA	5.16	127.47	120.65
6	X	481	VAL	CB-CA-C	5.16	118.77	110.82
6	K	253	VAL	N-CA-C	5.16	116.50	110.62
6	O	226	LYS	N-CA-C	5.16	119.83	111.37
6	O	626	ALA	N-CA-CB	-5.16	102.53	110.12
6	Q	419	MET	N-CA-C	5.16	116.58	109.15
5	T	247	PHE	CA-CB-CG	5.16	118.96	113.80
6	W	318	LYS	CB-CG-CD	5.16	123.17	111.30
2	B	757	VAL	CB-CA-C	5.16	118.80	112.04
2	B	871	VAL	CA-CB-CG1	5.16	119.17	110.40
4	D	207	THR	CB-CA-C	5.16	118.98	110.88
4	D	378	PRO	CB-CA-C	-5.16	103.66	112.64
5	F	48	ILE	CB-CG1-CD1	5.16	124.64	113.80
6	J	125	ASP	N-CA-CB	5.16	117.71	110.12
5	L	157	HIS	CG-CD2-NE2	5.16	112.36	107.20
6	O	604	VAL	O-C-N	5.16	126.95	121.89
6	P	451	SER	N-CA-C	5.16	121.79	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	Q	567	ARG	CA-C-O	-5.16	114.95	120.42
6	V	15	GLY	CA-C-O	-5.16	116.00	121.88
6	X	578	SER	CA-C-N	5.16	127.94	122.26
6	X	578	SER	C-N-CA	5.16	127.94	122.26
2	B	661	THR	CB-CA-C	-5.16	102.75	110.90
3	C	856	ARG	CA-C-N	5.16	127.50	120.54
3	C	856	ARG	C-N-CA	5.16	127.50	120.54
6	I	505	ASP	N-CA-C	5.16	117.31	108.90
6	J	131	VAL	N-CA-C	5.16	114.92	106.72
6	J	206	GLU	N-CA-C	5.16	116.59	111.07
5	L	232	GLN	N-CA-CB	-5.16	102.32	110.06
6	O	179	ALA	O-C-N	5.16	129.90	123.19
6	U	131	VAL	N-CA-C	5.16	114.92	106.72
6	U	191	LYS	N-CA-C	5.16	119.42	113.18
3	C	1052	LEU	N-CA-C	5.16	117.57	111.33
4	D	360	THR	CA-CB-CG2	5.16	119.27	110.50
6	K	179	ALA	O-C-N	5.16	129.89	123.19
6	O	147	ARG	NH1-CZ-NH2	5.16	126.00	119.30
2	B	324	ILE	N-CA-C	5.16	119.67	112.50
2	B	1118	CYS	CA-C-O	5.16	126.57	120.69
3	C	459	LEU	CA-C-O	-5.16	115.03	120.55
3	C	520	PRO	CA-C-N	5.16	127.91	120.38
3	C	520	PRO	C-N-CA	5.16	127.91	120.38
5	G	1	MET	CA-CB-CG	5.16	124.41	114.10
5	G	55	THR	CA-C-O	5.16	127.04	121.06
5	G	232	GLN	N-CA-CB	-5.16	102.33	110.06
6	I	54	SER	N-CA-CB	-5.16	101.78	110.49
6	I	459	LEU	CA-C-O	5.16	127.56	121.17
6	J	588	ILE	N-CA-C	-5.16	102.00	107.77
6	K	146	GLN	N-CA-C	5.16	117.30	111.11
6	Q	35	ASP	N-CA-C	5.16	117.64	109.96
6	Q	421	HIS	O-C-N	5.16	129.71	123.01
5	T	276	ASP	CB-CA-C	5.16	119.90	110.10
6	U	598	SER	CA-CB-OG	5.16	121.41	111.10
6	W	48	TRP	CA-C-O	-5.16	115.02	121.46
5	Y	45	ARG	CA-C-O	-5.16	113.14	120.51
5	Y	52	CYS	N-CA-CB	-5.16	102.71	111.27
1	A	134	PHE	N-CA-C	5.15	117.80	111.82
1	A	166	THR	N-CA-C	5.15	117.64	111.71
6	J	231	GLN	O-C-N	5.15	129.40	122.49
5	N	48	ILE	CB-CG1-CD1	5.15	124.62	113.80
1	A	1175	ARG	NE-CZ-NH2	5.15	123.84	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	D	166	MET	CG-SD-CE	-5.15	89.56	100.90
4	E	325	CYS	CB-CA-C	5.15	120.67	110.42
5	F	18	ALA	N-CA-C	5.15	117.80	111.82
6	I	21	THR	CA-C-O	5.15	127.70	120.64
6	J	389	ALA	CA-C-N	5.15	127.44	120.38
6	J	389	ALA	C-N-CA	5.15	127.44	120.38
6	P	298	PHE	CG-CD2-CE2	-5.15	111.94	120.70
6	Q	108	LEU	N-CA-CB	-5.15	101.78	110.49
6	Q	246	THR	CA-C-N	5.15	127.90	120.38
6	Q	246	THR	C-N-CA	5.15	127.90	120.38
5	S	90	GLN	CG-CD-OE1	-5.15	110.50	120.80
6	V	156	VAL	CA-CB-CG2	5.15	119.16	110.40
6	W	27	THR	CA-C-N	-5.15	111.70	121.54
6	W	27	THR	C-N-CA	-5.15	111.70	121.54
6	X	593	GLN	CB-CA-C	5.15	120.06	111.30
5	Y	246	THR	O-C-N	5.15	129.92	123.12
4	E	37	TRP	O-C-N	5.15	129.48	122.48
5	F	81	SER	CA-C-N	5.15	127.14	120.44
5	F	81	SER	C-N-CA	5.15	127.14	120.44
6	P	318	LYS	N-CA-C	5.15	116.65	108.67
5	T	52	CYS	N-CA-CB	-5.15	102.72	111.27
6	W	156	VAL	CA-CB-CG2	5.15	119.16	110.40
6	W	338	VAL	CA-C-N	-5.15	114.70	122.01
6	W	338	VAL	C-N-CA	-5.15	114.70	122.01
6	X	555	ALA	CA-C-O	-5.15	116.12	121.99
1	A	1259	SER	CA-C-O	-5.15	115.88	121.44
5	H	121	PRO	CB-CA-C	5.15	121.12	112.62
6	K	277	ASP	N-CA-C	5.15	119.45	112.04
6	O	621	SER	O-C-N	5.15	127.58	122.12
6	Q	33	ALA	CA-C-O	5.15	126.76	120.99
5	T	145	ARG	CB-CG-CD	-5.15	99.46	111.30
6	U	33	ALA	CA-C-N	-5.15	114.07	122.57
6	U	33	ALA	C-N-CA	-5.15	114.07	122.57
6	V	318	LYS	CB-CG-CD	5.15	123.14	111.30
6	X	139	THR	CA-CB-OG1	5.15	117.32	109.60
2	B	805	ALA	O-C-N	5.15	129.72	122.77
3	C	72	VAL	N-CA-C	5.15	116.78	108.85
3	C	499	THR	O-C-N	5.15	127.37	122.07
3	C	937	ALA	N-CA-C	5.15	117.01	109.24
5	G	248	ALA	N-CA-C	5.15	117.21	109.23
5	G	267	GLY	CA-C-O	5.15	129.53	120.57
6	I	35	ASP	N-CA-C	5.15	117.63	109.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	J	596	MET	N-CA-C	5.15	117.63	111.71
6	K	280	LEU	O-C-N	5.15	127.07	121.36
6	K	555	ALA	CA-C-O	-5.15	116.12	121.99
6	U	214	ARG	CA-C-O	5.15	126.01	119.78
6	W	617	VAL	N-CA-C	5.15	120.05	109.34
6	X	617	VAL	N-CA-C	5.15	120.05	109.34
2	B	469	ALA	N-CA-CB	-5.15	102.56	110.12
4	E	233	TYR	CG-CD1-CE1	-5.15	113.48	121.20
6	I	48	TRP	CA-C-O	-5.15	115.03	121.46
6	I	593	GLN	CB-CA-C	5.15	120.05	111.30
5	R	110	PHE	CA-C-O	-5.15	115.42	120.98
3	C	1129	THR	N-CA-C	5.14	118.60	109.96
4	E	174	LEU	CA-C-N	5.14	127.89	120.38
4	E	174	LEU	C-N-CA	5.14	127.89	120.38
6	J	141	GLN	CA-CB-CG	5.14	124.39	114.10
6	J	635	GLN	N-CA-C	5.14	117.30	111.02
6	O	277	ASP	N-CA-C	5.14	119.45	112.04
6	O	567	ARG	CA-C-O	-5.14	114.97	120.42
6	P	270	ASP	CA-CB-CG	5.14	117.74	112.60
5	R	145	ARG	NH1-CZ-NH2	-5.14	112.61	119.30
6	V	96	PHE	CD1-CG-CD2	5.14	126.32	118.60
6	W	252	LEU	O-C-N	5.14	127.37	122.07
3	C	801	ARG	NE-CZ-NH1	-5.14	116.36	121.50
4	D	13	PHE	CA-C-O	-5.14	115.26	120.71
4	D	205	VAL	CA-C-N	5.14	128.53	120.82
4	D	205	VAL	C-N-CA	5.14	128.53	120.82
6	J	593	GLN	N-CA-CB	-5.14	102.69	110.35
6	K	342	ASN	N-CA-C	5.14	117.69	108.17
5	M	232	GLN	N-CA-CB	-5.14	102.35	110.06
6	O	255	SER	O-C-N	5.14	127.57	122.12
6	O	342	ASN	N-CA-C	5.14	117.68	108.17
6	O	397	VAL	CA-CB-CG1	5.14	119.14	110.40
6	U	141	GLN	CA-CB-CG	5.14	124.38	114.10
6	V	270	ASP	CA-CB-CG	5.14	117.74	112.60
1	A	158	TRP	CH2-CZ2-CE2	5.14	124.18	117.50
1	A	189	SER	CA-C-O	5.14	126.78	120.15
5	H	110	PHE	CA-C-O	-5.14	115.43	120.98
6	I	285	PHE	CA-C-O	-5.14	114.53	120.24
6	P	15	GLY	CA-C-O	-5.14	116.02	121.88
6	V	163	LEU	N-CA-C	5.14	117.28	111.11
6	W	277	ASP	N-CA-C	5.14	119.44	112.04
1	A	979	ALA	O-C-N	5.14	127.57	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	524	ASP	N-CA-C	5.14	121.75	110.80
2	B	571	LEU	CD1-CG-CD2	-5.14	99.49	110.80
5	F	264	GLN	N-CA-C	5.14	121.75	110.80
5	H	31	GLU	O-C-N	5.14	129.54	123.27
6	I	514	LEU	N-CA-C	5.14	118.33	111.75
5	N	228	ASP	CA-CB-CG	5.14	117.74	112.60
6	P	71	TYR	CA-CB-CG	5.14	123.15	113.90
6	P	108	LEU	N-CA-CB	-5.14	101.81	110.49
6	P	153	MET	CA-C-N	-5.14	111.00	121.18
6	P	153	MET	C-N-CA	-5.14	111.00	121.18
6	P	318	LYS	CB-CG-CD	5.14	123.12	111.30
6	P	425	THR	N-CA-C	5.14	121.75	110.80
6	Q	299	ILE	CA-CB-CG1	5.14	119.14	110.40
6	W	154	ARG	O-C-N	5.14	129.32	122.43
6	W	185	SER	CA-C-N	5.14	127.44	120.65
6	W	185	SER	C-N-CA	5.14	127.44	120.65
6	X	39	GLY	O-C-N	5.14	129.38	122.70
6	X	593	GLN	OE1-CD-NE2	-5.14	117.46	122.60
2	B	383	ALA	CA-C-O	-5.14	115.10	120.55
3	C	202	THR	CA-CB-OG1	5.14	117.31	109.60
3	C	230	GLN	N-CA-C	5.14	116.85	108.63
3	C	739	VAL	N-CA-C	5.14	120.03	109.34
6	U	307	ILE	CA-C-O	5.14	127.20	120.78
6	V	377	GLN	OE1-CD-NE2	-5.14	117.46	122.60
6	X	226	LYS	N-CA-C	5.14	119.80	111.37
5	Y	139	SER	N-CA-C	5.14	117.29	111.02
1	A	921	ILE	N-CA-C	5.14	119.23	112.04
2	B	565	LYS	N-CA-CB	5.14	117.77	110.06
2	B	612	ALA	O-C-N	5.14	127.56	122.12
3	C	932	ALA	CA-C-O	5.14	125.82	119.81
6	I	284	VAL	O-C-N	5.14	127.24	121.90
5	T	66	GLN	N-CA-C	5.14	116.88	111.28
1	A	665	ASN	CA-C-N	5.13	128.05	121.27
1	A	665	ASN	C-N-CA	5.13	128.05	121.27
1	A	816	ASN	CA-CB-CG	5.13	117.73	112.60
5	H	131	ARG	CA-CB-CG	5.13	124.37	114.10
6	I	48	TRP	CB-CA-C	-5.13	101.81	112.44
6	J	533	ASP	N-CA-CB	5.13	118.63	110.57
6	K	149	ILE	N-CA-CB	-5.13	103.56	110.54
6	K	428	ARG	NE-CZ-NH1	-5.13	116.37	121.50
5	M	239	GLY	O-C-N	5.13	126.90	121.77
6	Q	48	TRP	CA-C-O	-5.13	115.04	121.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	Q	588	ILE	N-CA-C	-5.13	102.02	107.77
6	U	191	LYS	O-C-N	5.13	129.93	122.43
6	V	514	LEU	N-CA-C	5.13	118.32	111.75
6	W	505	ASP	CA-CB-CG	5.13	117.73	112.60
6	X	277	ASP	N-CA-C	5.13	119.43	112.04
6	X	306	TRP	CE2-CD2-CE3	5.13	123.93	118.80
1	A	329	THR	O-C-N	5.13	128.92	122.86
1	A	849	THR	N-CA-C	5.13	117.77	111.82
2	B	847	SER	CA-C-N	5.13	130.54	120.99
2	B	847	SER	C-N-CA	5.13	130.54	120.99
2	B	1081	TYR	CA-C-N	-5.13	114.98	122.68
2	B	1081	TYR	C-N-CA	-5.13	114.98	122.68
4	D	294	THR	N-CA-CB	5.13	120.29	111.00
1	A	458	VAL	N-CA-CB	-5.13	105.97	111.46
6	I	253	VAL	CA-CB-CG2	5.13	119.12	110.40
5	L	236	ALA	O-C-N	5.13	127.36	122.07
5	M	38	ALA	N-CA-C	5.13	117.15	110.43
6	O	256	SER	CA-CB-OG	5.13	121.36	111.10
6	O	569	ALA	N-CA-CB	5.13	117.75	110.16
6	P	156	VAL	CA-CB-CG2	5.13	119.12	110.40
6	P	275	GLU	OE1-CD-OE2	5.13	135.22	122.90
5	S	52	CYS	N-CA-CB	-5.13	102.75	111.27
5	S	152	HIS	CG-CD2-NE2	5.13	112.33	107.20
6	U	515	ASN	OD1-CG-ND2	-5.13	117.47	122.60
6	V	462	GLY	CA-C-N	-5.13	114.61	122.87
6	V	462	GLY	C-N-CA	-5.13	114.61	122.87
6	W	171	THR	O-C-N	5.13	127.22	121.32
6	I	205	ASN	CA-C-O	-5.13	115.41	120.90
6	I	533	ASP	CB-CA-C	5.13	118.59	109.72
6	K	260	SER	CA-C-N	5.13	127.16	120.28
6	K	260	SER	C-N-CA	5.13	127.16	120.28
6	U	67	ARG	O-C-N	5.13	129.41	122.59
6	V	421	HIS	O-C-N	5.13	129.68	123.01
4	E	160	GLU	CB-CG-CD	5.13	121.32	112.60
6	P	408	ALA	O-C-N	5.13	129.24	122.93
6	Q	391	ILE	CA-CB-CG2	5.13	119.22	110.50
6	Q	645	TRP	CA-CB-CG	5.13	123.34	113.60
5	S	18	ALA	N-CA-C	5.13	117.77	111.82
6	X	50	PRO	N-CD-CG	5.13	110.89	103.20
6	X	253	VAL	N-CA-C	5.13	116.47	110.62
6	X	645	TRP	CA-CB-CG	5.13	123.34	113.60
3	C	586	PHE	CA-CB-CG	5.13	118.93	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	E	349	ALA	N-CA-C	5.13	121.72	110.80
5	H	262	CYS	O-C-N	5.13	127.55	122.12
6	I	123	ALA	CA-C-O	-5.13	115.18	120.92
6	J	318	LYS	CB-CG-CD	5.13	123.09	111.30
6	J	347	SER	CB-CA-C	-5.13	99.28	109.79
5	N	198	HIS	ND1-CG-CD2	5.13	111.23	106.10
6	O	377	GLN	N-CA-C	5.13	117.45	107.71
6	W	604	VAL	CA-CB-CG1	5.13	119.12	110.40
2	B	914	ASP	CA-CB-CG	5.12	117.72	112.60
4	E	92	TRP	CE2-CD2-CE3	5.12	123.92	118.80
6	I	579	ASN	CA-CB-CG	-5.12	107.47	112.60
6	K	327	TYR	CA-CB-CG	5.12	123.13	113.90
5	M	185	VAL	CA-CB-CG1	5.12	119.11	110.40
6	P	621	SER	N-CA-C	5.12	117.53	111.33
6	V	635	GLN	CA-C-O	-5.12	115.43	121.07
1	A	1047	GLN	CA-C-N	5.12	129.90	121.39
1	A	1047	GLN	C-N-CA	5.12	129.90	121.39
3	C	497	ILE	CA-CB-CG2	5.12	119.21	110.50
3	C	498	THR	N-CA-C	5.12	117.53	111.33
5	F	28	THR	N-CA-C	5.12	119.61	112.90
5	G	164	ASP	CA-C-N	5.12	131.33	121.54
5	G	164	ASP	C-N-CA	5.12	131.33	121.54
6	I	391	ILE	CA-CB-CG2	5.12	119.21	110.50
6	I	421	HIS	O-C-N	5.12	129.67	123.01
6	J	202	THR	CA-CB-OG1	5.12	117.28	109.60
6	J	275	GLU	OE1-CD-OE2	5.12	135.20	122.90
5	N	219	HIS	CG-ND1-CE1	-5.12	100.59	109.30
6	O	346	ASP	N-CA-C	5.12	116.87	108.52
6	O	505	ASP	N-CA-C	5.12	117.25	108.90
6	O	604	VAL	CA-CB-CG1	5.12	119.11	110.40
6	P	450	SER	N-CA-CB	5.12	119.15	110.49
6	Q	39	GLY	O-C-N	5.12	129.36	122.70
6	Q	71	TYR	CA-CB-CG	5.12	123.12	113.90
6	Q	292	ARG	CD-NE-CZ	5.12	131.57	124.40
5	R	275	SER	CA-C-O	5.12	127.84	120.51
5	T	179	THR	N-CA-CB	5.12	117.57	109.94
6	W	21	THR	N-CA-C	5.12	118.46	108.21
6	W	246	THR	CA-C-N	5.12	127.86	120.38
6	W	246	THR	C-N-CA	5.12	127.86	120.38
2	B	817	ALA	CA-C-O	5.12	126.16	120.63
5	G	220	ASP	O-C-N	5.12	128.04	122.20
6	J	277	ASP	N-CA-C	5.12	119.42	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	O	437	ILE	O-C-N	5.12	129.19	122.94
6	P	473	GLU	CA-CB-CG	5.12	124.34	114.10
6	W	22	PRO	N-CA-CB	5.12	107.40	103.30
6	W	493	GLN	N-CA-C	5.12	116.94	108.13
1	A	1095	GLU	O-C-N	5.12	129.54	123.24
4	D	16	GLN	CB-CA-C	5.12	115.77	108.76
5	H	65	ILE	O-C-N	5.12	127.59	121.80
6	K	427	GLU	CA-C-O	5.12	126.54	120.70
6	K	549	LEU	CB-CA-C	5.12	120.02	111.83
5	N	112	ALA	CA-C-O	-5.12	114.34	120.54
6	X	92	TRP	CE2-CD2-CE3	5.12	123.92	118.80
6	X	371	PRO	CB-CA-C	5.12	118.37	111.71
1	A	129	ARG	CA-C-O	-5.12	115.47	121.46
1	A	498	ALA	CA-C-N	5.12	128.79	120.60
1	A	498	ALA	C-N-CA	5.12	128.79	120.60
1	A	575	PHE	CA-C-N	5.12	125.66	119.98
1	A	575	PHE	C-N-CA	5.12	125.66	119.98
2	B	858	VAL	N-CA-C	5.12	115.89	110.72
2	B	1154	ILE	N-CA-C	5.12	118.30	111.44
3	C	857	ALA	N-CA-C	5.12	117.25	111.11
3	C	1168	ARG	NE-CZ-NH1	-5.12	116.38	121.50
4	D	209	ARG	CA-C-O	-5.12	115.45	120.82
4	E	80	ALA	N-CA-C	5.12	118.79	112.54
5	F	203	HIS	ND1-CE1-NE2	5.12	113.52	108.40
5	G	236	ALA	O-C-N	5.12	127.34	122.07
6	I	152	ARG	CB-CA-C	5.12	118.92	110.88
6	J	569	ALA	N-CA-CB	5.12	117.73	110.16
6	K	125	ASP	N-CA-CB	5.12	117.64	110.12
5	L	133	CYS	N-CA-C	5.12	119.82	111.37
5	M	157	HIS	CG-CD2-NE2	5.12	112.32	107.20
5	N	10	ALA	N-CA-CB	5.12	117.64	110.12
6	O	416	ARG	CA-CB-CG	5.12	124.34	114.10
6	V	27	THR	O-C-N	5.12	129.68	122.77
6	V	209	ASN	O-C-N	5.12	127.41	122.09
6	X	140	VAL	O-C-N	-5.12	116.43	121.96
2	B	830	ASN	N-CA-C	5.12	116.92	109.71
3	C	80	THR	N-CA-C	5.12	116.55	111.07
3	C	602	GLY	N-CA-C	5.12	125.31	113.18
6	J	27	THR	CA-C-N	-5.12	111.77	121.54
6	J	27	THR	C-N-CA	-5.12	111.77	121.54
5	M	262	CYS	O-C-N	5.12	127.54	122.12
5	R	183	ASP	CA-CB-CG	5.12	117.72	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	X	125	ASP	N-CA-CB	5.12	117.64	110.12
1	A	226	VAL	O-C-N	5.12	129.58	122.88
1	A	245	GLY	O-C-N	5.12	127.37	123.23
3	C	135	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
3	C	530	LYS	CA-C-N	5.12	127.39	120.38
3	C	530	LYS	C-N-CA	5.12	127.39	120.38
3	C	880	LEU	O-C-N	5.12	129.39	122.59
3	C	1028	GLU	CA-C-N	5.12	126.23	119.84
3	C	1028	GLU	C-N-CA	5.12	126.23	119.84
4	D	322	VAL	CA-CB-CG2	5.12	119.09	110.40
5	H	52	CYS	N-CA-CB	-5.12	102.78	111.27
5	H	248	ALA	N-CA-C	5.12	117.16	109.23
6	I	216	PRO	N-CD-CG	5.12	110.87	103.20
6	I	416	ARG	CA-CB-CG	5.12	124.33	114.10
6	I	635	GLN	CA-C-O	-5.12	115.44	121.07
6	K	35	ASP	N-CA-C	5.12	117.58	109.96
5	L	92	ALA	CB-CA-C	5.12	118.78	109.62
5	L	214	ARG	CD-NE-CZ	5.12	131.56	124.40
5	N	69	HIS	CA-C-O	5.12	126.37	120.90
6	O	253	VAL	CA-CB-CG2	5.12	119.10	110.40
6	U	299	ILE	CA-CB-CG1	5.12	119.10	110.40
5	Y	74	GLN	OE1-CD-NE2	-5.12	117.48	122.60
1	A	809	THR	CA-CB-OG1	5.11	117.27	109.60
3	C	401	THR	CA-C-O	-5.11	114.09	119.97
4	E	226	SER	N-CA-CB	-5.11	102.46	110.44
5	F	231	HIS	CB-CG-ND1	5.11	130.37	122.70
5	F	270	LEU	CA-C-O	-5.11	115.33	121.11
5	L	166	LYS	N-CA-CB	-5.11	103.07	110.84
5	R	38	ALA	N-CA-C	5.11	117.13	110.43
6	U	586	VAL	CA-CB-CG1	5.11	119.09	110.40
6	U	626	ALA	N-CA-CB	-5.11	102.39	110.06
6	V	509	LEU	CA-C-N	5.11	127.10	120.56
6	V	509	LEU	C-N-CA	5.11	127.10	120.56
6	W	260	SER	O-C-N	-5.11	116.70	122.12
6	W	583	ALA	N-CA-C	5.11	117.59	111.71
2	B	812	PRO	N-CA-CB	5.11	108.62	103.25
3	C	537	TYR	N-CA-C	5.11	119.75	111.37
6	P	569	ALA	CA-C-O	-5.11	115.00	120.42
6	U	56	ALA	CB-CA-C	-5.11	100.25	110.42
1	A	212	ALA	O-C-N	5.11	127.33	122.07
1	A	324	ILE	N-CA-C	5.11	113.77	109.02
2	B	546	SER	N-CA-C	5.11	118.34	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	527	ALA	CA-C-O	5.11	126.15	120.63
3	C	742	MET	CA-C-O	5.11	124.97	119.15
5	F	121	PRO	CB-CA-C	5.11	121.05	112.62
5	H	150	ALA	N-CA-C	5.11	121.69	110.80
6	K	253	VAL	CA-CB-CG2	5.11	119.09	110.40
6	P	503	ALA	CA-C-N	5.11	131.30	121.54
6	P	503	ALA	C-N-CA	5.11	131.30	121.54
6	Q	319	THR	O-C-N	5.11	129.38	123.30
5	R	203	HIS	ND1-CE1-NE2	5.11	113.51	108.40
5	R	232	GLN	N-CA-CB	-5.11	102.39	110.06
6	U	27	THR	O-C-N	5.11	129.67	122.77
6	W	347	SER	CB-CA-C	-5.11	99.31	109.79
6	W	473	GLU	CA-CB-CG	5.11	124.32	114.10
5	Y	250	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
3	C	678	PRO	N-CA-C	-5.11	106.43	113.53
6	J	371	PRO	CB-CA-C	5.11	118.35	111.71
6	K	503	ALA	CA-C-N	5.11	131.30	121.54
6	K	503	ALA	C-N-CA	5.11	131.30	121.54
5	R	248	ALA	O-C-N	5.11	129.20	123.27
5	S	248	ALA	O-C-N	5.11	129.20	123.27
6	U	416	ARG	CA-CB-CG	5.11	124.32	114.10
2	B	475	ALA	O-C-N	5.11	127.53	122.12
3	C	947	ARG	O-C-N	-5.11	117.40	123.22
4	D	95	PRO	CA-N-CD	-5.11	104.85	112.00
5	G	219	HIS	ND1-CG-CD2	5.11	111.21	106.10
6	I	92	TRP	CG-CD2-CE3	-5.11	128.79	133.90
6	O	112	THR	CA-CB-OG1	5.11	117.26	109.60
5	R	50	ALA	O-C-N	5.11	128.19	122.22
6	U	28	SER	CA-CB-OG	5.11	121.32	111.10
6	U	68	PHE	N-CA-C	5.11	121.93	113.50
5	Y	263	GLY	CA-C-N	5.11	131.29	121.54
5	Y	263	GLY	C-N-CA	5.11	131.29	121.54
1	A	696	PRO	N-CA-C	5.11	118.89	111.03
1	A	911	ILE	N-CA-C	5.11	116.44	110.62
2	B	353	GLN	N-CA-C	5.11	117.08	110.65
4	D	320	GLN	OE1-CD-NE2	-5.11	117.50	122.60
5	H	28	THR	N-CA-C	5.11	119.59	112.90
6	I	100	LYS	CG-CD-CE	5.11	123.04	111.30
6	K	389	ALA	CA-C-N	5.11	127.37	120.38
6	K	389	ALA	C-N-CA	5.11	127.37	120.38
5	M	145	ARG	N-CA-CB	-5.11	103.17	110.57
6	O	582	LEU	N-CA-C	5.11	118.28	111.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	U	578	SER	CA-C-N	5.11	127.88	122.26
6	U	578	SER	C-N-CA	5.11	127.88	122.26
6	U	598	SER	CB-CA-C	5.11	119.27	110.79
6	U	635	GLN	N-CA-C	5.11	117.25	111.02
6	W	489	VAL	CA-CB-CG1	5.11	119.08	110.40
5	Y	69	HIS	CA-C-O	5.11	126.64	120.92
5	L	241	ALA	N-CA-CB	-5.10	101.23	109.60
6	Q	462	GLY	CA-C-N	-5.10	114.65	122.87
6	Q	462	GLY	C-N-CA	-5.10	114.65	122.87
6	X	391	ILE	CA-CB-CG2	5.10	119.18	110.50
1	A	445	ILE	O-C-N	5.10	128.95	122.57
1	A	926	GLY	N-CA-C	5.10	118.52	110.71
6	J	237	GLU	N-CA-C	5.10	121.67	110.80
6	K	529	SER	CA-C-O	-5.10	113.22	120.51
5	L	40	TYR	N-CA-C	5.10	119.16	107.48
5	M	145	ARG	NH1-CZ-NH2	-5.10	112.67	119.30
5	N	185	VAL	CA-CB-CG1	5.10	119.07	110.40
6	P	253	VAL	N-CA-C	5.10	116.44	110.62
6	Q	456	ASN	N-CA-CB	-5.10	98.89	109.45
5	R	58	PRO	N-CD-CG	5.10	110.85	103.20
5	R	185	VAL	CA-CB-CG1	5.10	119.08	110.40
5	S	76	ASN	O-C-N	5.10	127.60	122.09
6	U	26	MET	N-CA-CB	-5.10	101.87	110.49
6	V	437	ILE	O-C-N	5.10	129.17	122.94
1	A	599	ALA	N-CA-C	5.10	116.84	111.28
2	B	429	ASN	CB-CG-ND2	-5.10	108.75	116.40
2	B	479	LEU	CD1-CG-CD2	-5.10	99.58	110.80
2	B	799	ASP	CA-CB-CG	5.10	117.70	112.60
2	B	976	ASN	OD1-CG-ND2	-5.10	117.50	122.60
5	F	231	HIS	N-CA-C	5.10	118.28	111.75
6	P	33	ALA	CA-C-N	-5.10	114.15	122.57
6	P	33	ALA	C-N-CA	-5.10	114.15	122.57
1	A	225	THR	CA-C-N	5.10	130.04	123.11
1	A	225	THR	C-N-CA	5.10	130.04	123.11
2	B	632	ASN	N-CA-C	5.10	121.08	109.81
2	B	767	PHE	CE1-CZ-CE2	-5.10	110.82	120.00
3	C	135	HIS	ND1-CE1-NE2	5.10	113.50	108.40
6	O	230	ALA	O-C-N	-5.10	117.44	123.25
6	Q	437	ILE	O-C-N	5.10	129.16	122.94
6	W	131	VAL	N-CA-C	5.10	114.83	106.72
6	W	253	VAL	CA-CB-CG2	5.10	119.07	110.40
6	X	598	SER	N-CA-CB	-5.10	102.62	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	181	ALA	CA-C-O	5.10	126.98	121.02
3	C	782	ASN	OD1-CG-ND2	-5.10	117.50	122.60
3	C	1036	ASN	CA-CB-CG	5.10	117.70	112.60
5	H	239	GLY	O-C-N	5.10	126.87	121.77
6	K	71	TYR	CA-CB-CG	5.10	123.08	113.90
6	K	310	PHE	CA-CB-CG	5.10	118.90	113.80
6	O	272	ASP	CB-CA-C	5.10	120.56	110.42
6	Q	377	GLN	N-CA-C	5.10	117.40	107.71
6	V	430	THR	CA-C-O	5.10	126.14	120.63
2	B	382	SER	CA-C-N	5.10	127.11	120.28
2	B	382	SER	C-N-CA	5.10	127.11	120.28
2	B	518	LEU	N-CA-C	5.10	119.25	113.19
3	C	343	ALA	O-C-N	5.10	127.52	122.12
6	I	617	VAL	N-CA-C	5.10	119.94	109.34
6	P	271	LEU	CA-C-N	5.10	131.27	121.54
6	P	271	LEU	C-N-CA	5.10	131.27	121.54
6	V	66	ASP	O-C-N	5.10	128.18	122.22
1	A	815	TYR	CA-CB-CG	5.09	123.07	113.90
4	D	90	ILE	CA-C-N	5.09	130.51	123.07
4	D	90	ILE	C-N-CA	5.09	130.51	123.07
5	H	195	LEU	O-C-N	5.09	129.14	122.87
5	L	275	SER	CA-C-O	5.09	127.80	120.51
6	O	386	THR	OG1-CB-CG2	5.09	119.49	109.30
6	O	635	GLN	N-CA-C	5.09	117.23	111.02
5	R	256	ASP	CA-CB-CG	-5.09	107.51	112.60
6	V	378	THR	N-CA-C	5.09	117.75	109.24
6	W	231	GLN	O-C-N	5.09	129.32	122.49
2	B	728	THR	O-C-N	5.09	127.32	122.07
3	C	150	THR	CA-CB-OG1	5.09	117.24	109.60
3	C	174	VAL	N-CA-C	5.09	113.94	106.55
6	X	569	ALA	N-CA-CB	5.09	117.70	110.16
1	A	605	THR	N-CA-C	5.09	118.27	111.75
2	B	602	GLY	O-C-N	5.09	129.32	122.70
5	F	11	HIS	CE1-NE2-CD2	-5.09	103.91	109.00
5	H	11	HIS	CE1-NE2-CD2	-5.09	103.91	109.00
6	I	191	LYS	O-C-N	5.09	129.86	122.43
6	J	372	ALA	N-CA-C	5.09	117.41	109.52
5	S	168	PRO	N-CA-C	5.09	121.19	113.81
6	W	356	THR	O-C-N	5.09	129.36	122.59
6	X	451	SER	N-CA-C	5.09	121.64	110.80
2	B	1058	VAL	CA-CB-CG1	5.09	119.05	110.40
3	C	350	LEU	CA-C-O	-5.09	113.19	120.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	1154	ILE	CA-C-O	5.09	125.74	119.58
6	O	452	SER	O-C-N	5.09	127.31	122.07
6	Q	340	ASP	N-CA-CB	-5.09	103.70	110.57
6	Q	579	ASN	CA-CB-CG	-5.09	107.51	112.60
5	R	40	TYR	N-CA-C	5.09	119.13	107.48
5	R	145	ARG	N-CA-CB	-5.09	103.19	110.57
6	X	377	GLN	N-CA-C	5.09	117.38	107.71
2	B	611	PRO	CA-C-N	5.09	127.35	120.38
2	B	611	PRO	C-N-CA	5.09	127.35	120.38
3	C	916	ASP	N-CA-C	5.09	119.20	112.89
6	I	397	VAL	CA-CB-CG1	5.09	119.05	110.40
6	V	473	GLU	CA-CB-CG	5.09	124.28	114.10
3	C	28	PRO	CA-N-CD	-5.09	104.88	112.00
3	C	817	ALA	N-CA-C	5.09	116.83	111.28
4	D	335	ALA	CA-C-O	5.09	125.81	120.42
4	E	240	ALA	N-CA-C	5.09	121.63	110.80
4	E	367	GLU	CA-C-O	-5.09	115.16	120.55
6	J	242	PHE	O-C-N	5.09	128.53	122.27
6	J	451	SER	N-CA-C	5.09	121.64	110.80
6	O	206	GLU	N-CA-C	5.09	116.51	111.07
6	O	311	ASN	CA-CB-CG	5.09	117.69	112.60
6	O	638	PHE	CB-CA-C	-5.09	102.34	110.79
6	Q	34	ILE	CA-CB-CG2	5.09	119.15	110.50
6	Q	48	TRP	CB-CA-C	-5.09	101.91	112.44
6	Q	253	VAL	CA-CB-CG2	5.09	119.05	110.40
5	T	149	GLN	N-CA-CB	-5.09	103.86	111.64
6	V	393	ALA	N-CA-C	5.09	116.92	108.02
5	Y	77	GLU	N-CA-C	5.09	116.52	110.97
2	B	746	TYR	N-CA-CB	-5.08	102.65	110.12
6	J	27	THR	O-C-N	5.08	129.63	122.77
6	J	185	SER	CA-C-N	5.08	127.36	120.65
6	J	185	SER	C-N-CA	5.08	127.36	120.65
6	V	113	THR	N-CA-C	5.08	118.36	110.17
6	X	123	ALA	CA-C-O	-5.08	115.07	121.02
2	B	969	MET	N-CA-C	5.08	118.26	111.75
3	C	218	GLU	CB-CG-CD	5.08	121.24	112.60
5	H	139	SER	N-CA-C	5.08	117.22	111.02
5	H	214	ARG	NE-CZ-NH2	5.08	123.78	119.20
6	J	193	ILE	CB-CA-C	5.08	116.18	111.30
5	M	52	CYS	N-CA-CB	-5.08	102.83	111.27
5	N	115	ALA	CB-CA-C	5.08	118.27	110.14
6	P	475	THR	CA-CB-CG2	5.08	119.14	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	Q	417	PHE	CB-CA-C	-5.08	102.84	110.16
6	W	146	GLN	N-CA-C	5.08	117.21	111.11
6	W	638	PHE	CB-CA-C	-5.08	102.35	110.79
2	B	716	ASN	CA-CB-CG	-5.08	107.52	112.60
2	B	780	ILE	CA-CB-CG1	5.08	119.04	110.40
3	C	779	VAL	CA-C-N	5.08	128.19	120.77
3	C	779	VAL	C-N-CA	5.08	128.19	120.77
3	C	906	ASN	CA-CB-CG	5.08	117.68	112.60
3	C	950	VAL	N-CA-C	5.08	112.58	107.55
5	F	211	ALA	CB-CA-C	5.08	118.94	110.81
5	G	180	HIS	N-CA-CB	-5.08	100.83	109.57
6	P	397	VAL	CA-CB-CG1	5.08	119.04	110.40
6	W	629	SER	N-CA-C	5.08	116.82	111.28
6	X	282	VAL	N-CA-C	5.08	119.91	109.34
5	Y	64	THR	CA-CB-OG1	5.08	117.22	109.60
5	Y	76	ASN	O-C-N	5.08	127.58	122.09
1	A	805	VAL	CG1-CB-CG2	-5.08	99.62	110.80
3	C	764	THR	CA-CB-CG2	5.08	119.14	110.50
6	I	527	VAL	CA-CB-CG1	5.08	119.04	110.40
5	L	271	HIS	CG-CD2-NE2	5.08	112.28	107.20
6	Q	493	GLN	OE1-CD-NE2	-5.08	117.52	122.60
1	A	114	ASN	CA-C-N	5.08	124.69	119.05
1	A	114	ASN	C-N-CA	5.08	124.69	119.05
2	B	230	GLN	N-CA-C	5.08	121.62	110.80
2	B	1176	ASN	OD1-CG-ND2	-5.08	117.52	122.60
5	H	69	HIS	CA-C-O	5.08	126.33	120.90
6	I	626	ALA	N-CA-C	5.08	116.82	111.28
6	J	604	VAL	CA-CB-CG1	5.08	119.03	110.40
6	K	408	ALA	O-C-N	5.08	129.18	122.93
6	O	594	SER	CA-C-N	5.08	125.73	119.99
6	O	594	SER	C-N-CA	5.08	125.73	119.99
6	P	24	SER	CA-C-N	5.08	127.08	120.28
6	P	24	SER	C-N-CA	5.08	127.08	120.28
6	P	96	PHE	CD1-CG-CD2	5.08	126.22	118.60
5	T	240	PRO	N-CA-C	5.08	118.47	110.50
6	U	390	ASN	CB-CG-OD1	5.08	130.96	120.80
6	X	563	PRO	N-CA-CB	5.08	108.58	103.25
5	Y	31	GLU	O-C-N	5.08	129.47	123.27
1	A	288	SER	CA-CB-OG	5.08	121.25	111.10
3	C	687	LEU	N-CA-C	5.08	119.19	113.15
3	C	730	THR	CA-CB-OG1	5.08	117.22	109.60
6	K	575	MET	O-C-N	5.08	127.37	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	L	67	ASP	CA-CB-CG	5.08	117.68	112.60
6	Q	10	THR	CA-CB-OG1	5.08	117.22	109.60
6	U	73	PHE	CB-CA-C	5.08	117.12	110.06
6	W	586	VAL	CA-CB-CG1	5.08	119.03	110.40
6	X	37	LYS	CA-C-O	-5.08	114.77	120.25
1	A	798	THR	CA-CB-OG1	5.08	117.21	109.60
3	C	474	GLU	N-CA-CB	5.08	117.50	109.94
3	C	734	THR	CA-CB-OG1	5.08	117.21	109.60
4	D	43	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
6	I	395	THR	CA-C-O	5.08	125.89	120.46
5	N	131	ARG	CA-CB-CG	5.08	124.25	114.10
6	P	237	GLU	N-CA-C	5.08	121.61	110.80
6	P	508	VAL	N-CA-C	5.08	117.43	111.09
6	Q	153	MET	CA-C-N	-5.08	112.24	120.72
6	Q	153	MET	C-N-CA	-5.08	112.24	120.72
5	T	214	ARG	CD-NE-CZ	5.08	131.51	124.40
6	V	115	THR	CA-CB-CG2	5.08	119.13	110.50
6	V	216	PRO	CA-N-CD	-5.08	104.89	112.00
6	W	208	TYR	N-CA-C	5.08	116.50	111.07
6	W	588	ILE	N-CA-C	-5.08	102.09	107.77
1	A	679	LEU	N-CA-C	5.07	116.89	111.36
2	B	704	THR	O-C-N	5.07	127.50	122.12
3	C	964	VAL	CG1-CB-CG2	-5.07	99.64	110.80
6	I	261	GLN	N-CA-C	5.07	117.47	111.33
6	I	582	LEU	N-CA-C	5.07	118.24	111.75
5	L	201	HIS	CG-CD2-NE2	5.07	112.27	107.20
5	N	35	PHE	CA-CB-CG	-5.07	108.73	113.80
6	P	288	SER	O-C-N	5.07	129.00	123.22
6	W	393	ALA	N-CA-C	5.07	116.90	108.02
5	Y	257	MET	N-CA-C	5.07	121.61	110.80
3	C	153	ILE	N-CA-C	5.07	111.64	106.21
4	D	184	HIS	ND1-CG-CD2	-5.07	101.03	106.10
6	Q	33	ALA	CA-C-N	-5.07	114.20	122.57
6	Q	33	ALA	C-N-CA	-5.07	114.20	122.57
5	S	236	ALA	O-C-N	5.07	127.31	122.03
6	V	532	ASP	CA-CB-CG	5.07	117.67	112.60
3	C	931	ILE	N-CA-CB	-5.07	104.66	110.49
3	C	1050	ASP	CA-CB-CG	5.07	117.67	112.60
5	F	240	PRO	N-CA-C	5.07	118.46	110.50
5	G	37	HIS	CA-C-O	5.07	127.76	120.51
5	G	149	GLN	CG-CD-NE2	-5.07	108.79	116.40
6	K	53	THR	N-CA-C	5.07	116.48	110.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	K	171	THR	O-C-N	5.07	127.15	121.32
5	N	232	GLN	N-CA-CB	-5.07	102.45	110.06
6	O	508	VAL	N-CA-C	5.07	117.43	111.09
6	P	618	THR	CA-CB-CG2	5.07	119.12	110.50
6	Q	430	THR	CA-CB-OG1	5.07	117.20	109.60
5	T	11	HIS	CE1-NE2-CD2	-5.07	103.93	109.00
6	U	111	PHE	N-CA-CB	5.07	117.66	110.16
6	U	248	GLU	N-CA-C	5.07	120.33	114.04
6	U	318	LYS	CB-CG-CD	5.07	122.96	111.30
6	U	469	VAL	O-C-N	5.07	126.86	121.89
6	X	35	ASP	N-CA-C	5.07	117.52	109.96
2	B	512	SER	O-C-N	5.07	127.93	122.15
3	C	185	SER	CA-C-N	5.07	130.32	122.26
3	C	185	SER	C-N-CA	5.07	130.32	122.26
3	C	994	SER	CA-C-N	5.07	126.18	119.84
3	C	994	SER	C-N-CA	5.07	126.18	119.84
6	I	77	GLY	CA-C-O	5.07	126.03	120.66
6	I	216	PRO	CA-N-CD	-5.07	104.90	112.00
6	J	123	ALA	CA-C-O	-5.07	115.24	120.92
6	U	21	THR	N-CA-C	5.07	118.35	108.21
1	A	1060	VAL	CA-C-O	5.07	127.11	120.78
4	D	270	ILE	CA-C-O	5.07	126.14	119.85
5	F	257	MET	N-CA-C	5.07	121.59	110.80
5	H	249	CYS	N-CA-C	5.07	121.59	110.80
6	K	368	THR	N-CA-C	5.07	121.59	110.80
6	O	75	ASN	CA-C-O	-5.07	113.26	120.51
6	V	369	SER	CB-CA-C	-5.07	102.53	110.79
6	W	472	ARG	O-C-N	5.07	129.61	122.77
5	Y	249	CYS	N-CA-C	5.07	121.59	110.80
1	A	90	ASP	O-C-N	5.07	127.50	122.08
1	A	111	ARG	CA-CB-CG	-5.07	103.97	114.10
1	A	853	THR	CA-CB-OG1	5.07	117.20	109.60
2	B	634	GLN	N-CA-C	5.07	116.88	111.36
3	C	865	VAL	CA-CB-CG1	5.07	119.01	110.40
5	F	55	THR	CA-C-O	5.07	126.94	121.06
6	J	36	LEU	N-CA-CB	-5.07	104.01	111.51
6	J	549	LEU	CB-CA-C	5.07	119.94	111.83
6	K	92	TRP	CG-CD2-CE3	-5.07	128.84	133.90
6	K	215	TYR	CB-CG-CD1	-5.07	113.20	120.80
5	N	149	GLN	N-CA-CB	-5.07	103.89	111.64
6	Q	569	ALA	CA-C-O	-5.07	115.05	120.42
6	U	367	SER	CA-C-N	5.07	131.22	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	U	367	SER	C-N-CA	5.07	131.22	121.54
6	U	533	ASP	CB-CA-C	5.07	118.48	109.72
6	V	84	LYS	CG-CD-CE	-5.07	99.65	111.30
6	V	576	PHE	O-C-N	5.07	127.36	122.09
6	W	352	ASP	O-C-N	5.07	130.66	122.96
6	W	508	VAL	N-CA-C	5.07	117.42	111.09
6	X	318	LYS	CB-CG-CD	5.07	122.95	111.30
3	C	945	VAL	CA-CB-CG2	5.06	119.01	110.40
4	D	321	GLY	N-CA-C	5.06	118.12	111.03
4	D	354	GLN	OE1-CD-NE2	-5.06	117.54	122.60
6	I	252	LEU	O-C-N	5.06	127.29	122.07
5	S	55	THR	CA-C-O	5.06	126.94	121.06
5	S	276	ASP	CB-CA-C	5.06	119.72	110.10
6	V	508	VAL	N-CA-C	5.06	117.42	111.09
2	B	285	ASN	N-CA-CB	-5.06	101.94	110.49
3	C	672	SER	CA-CB-OG	5.06	121.22	111.10
3	C	1006	ARG	N-CA-C	5.06	119.72	111.37
3	C	1111	GLY	CA-C-N	5.06	131.50	122.13
3	C	1111	GLY	C-N-CA	5.06	131.50	122.13
4	E	246	ALA	CA-C-N	5.06	129.77	123.14
4	E	246	ALA	C-N-CA	5.06	129.77	123.14
4	E	249	LYS	O-C-N	-5.06	116.65	123.23
6	I	71	TYR	CA-CB-CG	5.06	123.01	113.90
6	I	154	ARG	NE-CZ-NH2	5.06	123.76	119.20
6	I	242	PHE	O-C-N	5.06	128.50	122.27
5	L	35	PHE	CA-CB-CG	-5.06	108.74	113.80
5	N	71	CYS	N-CA-C	5.06	121.58	110.80
6	P	583	ALA	N-CA-C	5.06	117.53	111.71
5	T	201	HIS	CG-CD2-NE2	5.06	112.26	107.20
6	U	372	ALA	N-CA-C	5.06	117.37	109.52
6	W	537	SER	CB-CA-C	-5.06	99.64	110.32
6	W	579	ASN	CA-CB-CG	-5.06	107.54	112.60
3	C	1184	LEU	N-CA-C	5.06	117.14	110.36
4	E	247	VAL	CA-C-O	-5.06	115.08	120.39
6	J	396	VAL	CA-CB-CG2	5.06	119.00	110.40
6	O	373	PHE	CB-CA-C	5.06	118.47	109.72
6	U	92	TRP	CE2-CD2-CE3	5.06	123.86	118.80
6	W	466	VAL	N-CA-CB	-5.06	104.67	110.49
1	A	337	VAL	N-CA-C	5.06	115.28	110.42
1	A	850	LEU	CD1-CG-CD2	-5.06	99.67	110.80
1	A	1132	THR	CB-CA-C	5.06	119.92	111.22
3	C	1181	THR	CA-CB-OG1	5.06	117.19	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	H	73	ARG	N-CA-C	5.06	118.33	112.97
6	I	369	SER	CB-CA-C	-5.06	102.54	110.79
6	I	466	VAL	N-CA-CB	-5.06	104.67	110.49
6	J	215	TYR	CB-CG-CD2	5.06	128.39	120.80
6	O	248	GLU	N-CA-C	5.06	120.31	114.04
6	U	629	SER	N-CA-C	5.06	116.79	111.28
6	V	139	THR	CA-CB-OG1	5.06	117.19	109.60
6	X	551	GLN	CA-C-N	5.06	129.31	122.93
6	X	551	GLN	C-N-CA	5.06	129.31	122.93
2	B	734	THR	CB-CA-C	-5.06	102.39	110.79
3	C	23	PRO	N-CA-CB	5.06	108.56	103.25
3	C	400	GLU	N-CA-C	5.06	117.45	111.33
4	E	106	ILE	N-CA-C	5.06	119.86	109.34
5	F	113	PRO	N-CD-CG	5.06	110.78	103.20
6	J	428	ARG	NE-CZ-NH1	-5.06	116.44	121.50
6	P	152	ARG	CB-CA-C	5.06	118.82	110.88
6	P	636	ALA	N-CA-C	5.06	117.45	111.33
6	Q	92	TRP	CE2-CD2-CE3	5.06	123.86	118.80
6	Q	466	VAL	N-CA-CB	-5.06	104.67	110.49
6	U	111	PHE	CA-C-O	5.06	125.78	120.42
6	V	262	ALA	N-CA-C	5.06	116.48	111.07
6	V	379	SER	CB-CA-C	5.06	119.72	110.36
6	X	416	ARG	CG-CD-NE	5.06	123.12	112.00
5	Y	131	ARG	CA-CB-CG	5.06	124.21	114.10
2	B	549	ALA	CA-C-O	5.06	127.74	120.51
5	F	92	ALA	CB-CA-C	5.06	118.67	109.62
6	I	346	ASP	N-CA-C	5.06	116.76	108.52
6	J	67	ARG	O-C-N	5.06	129.31	122.59
5	N	74	GLN	OE1-CD-NE2	-5.06	117.54	122.60
6	W	33	ALA	CA-C-N	-5.06	114.23	122.57
6	W	33	ALA	C-N-CA	-5.06	114.23	122.57
3	C	675	MET	CA-CB-CG	5.05	124.21	114.10
4	D	78	PRO	O-C-N	-5.05	115.82	122.64
4	D	400	THR	CA-C-N	-5.05	112.09	120.68
4	D	400	THR	C-N-CA	-5.05	112.09	120.68
5	H	100	ASP	CA-CB-CG	-5.05	107.55	112.60
5	H	149	GLN	CG-CD-NE2	-5.05	108.82	116.40
6	K	37	LYS	CA-C-O	-5.05	114.79	120.25
6	P	127	LEU	O-C-N	5.05	127.48	122.12
5	R	23	THR	CA-CB-CG2	5.05	119.09	110.50
6	U	593	GLN	N-CA-C	5.05	116.89	107.99
6	V	411	VAL	O-C-N	5.05	126.84	121.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	1059	PHE	CA-CB-CG	5.05	118.85	113.80
6	K	418	ASN	CB-CG-OD1	-5.05	110.69	120.80
5	M	234	ARG	O-C-N	5.05	127.96	122.20
6	P	604	VAL	O-C-N	5.05	126.84	121.89
5	S	58	PRO	N-CD-CG	5.05	110.78	103.20
6	V	107	VAL	CB-CA-C	5.05	119.58	111.29
6	V	621	SER	O-C-N	5.05	127.48	122.12
6	W	621	SER	O-C-N	5.05	127.48	122.12
6	X	191	LYS	O-C-N	5.05	129.81	122.43
5	Y	45	ARG	N-CA-C	5.05	121.56	110.80
1	A	291	PRO	O-C-N	5.05	129.82	123.05
1	A	897	PHE	O-C-N	5.05	129.31	122.59
3	C	103	PRO	CA-C-N	5.05	128.02	120.95
3	C	103	PRO	C-N-CA	5.05	128.02	120.95
6	J	527	VAL	CA-CB-CG1	5.05	118.99	110.40
5	T	57	ALA	CA-C-N	5.05	124.98	119.78
5	T	57	ALA	C-N-CA	5.05	124.98	119.78
6	X	21	THR	N-CA-C	5.05	118.31	108.21
1	A	895	ALA	N-CA-C	5.05	117.19	107.44
3	C	640	ARG	NE-CZ-NH2	-5.05	114.66	119.20
3	C	975	PHE	N-CA-C	5.05	119.12	112.25
5	F	139	SER	N-CA-C	5.05	117.18	111.02
5	G	241	ALA	N-CA-CB	-5.05	101.32	109.60
5	L	45	ARG	NE-CZ-NH1	-5.05	116.45	121.50
6	O	440	LEU	N-CA-CB	-5.05	103.40	111.43
6	P	277	ASP	N-CA-C	5.05	119.31	112.04
6	P	492	ASN	N-CA-C	5.05	118.99	111.87
6	Q	586	VAL	CA-CB-CG1	5.05	118.98	110.40
5	S	149	GLN	N-CA-CB	-5.05	103.12	111.96
6	U	150	ALA	O-C-N	5.05	127.47	122.12
6	U	165	THR	CA-CB-CG2	5.05	119.08	110.50
5	Y	100	ASP	CA-CB-CG	-5.05	107.55	112.60
1	A	149	THR	O-C-N	5.05	127.48	122.08
1	A	510	LEU	CB-CA-C	5.05	119.01	109.37
2	B	636	ALA	N-CA-C	5.05	117.87	109.79
2	B	644	GLU	CA-C-N	5.05	127.05	120.28
2	B	644	GLU	C-N-CA	5.05	127.05	120.28
3	C	1192	ASN	OD1-CG-ND2	-5.05	117.55	122.60
4	E	369	HIS	CA-C-N	5.05	127.31	120.65
4	E	369	HIS	C-N-CA	5.05	127.31	120.65
4	E	397	ALA	CA-C-O	-5.05	115.07	120.42
6	O	538	ALA	O-C-N	5.05	127.27	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	427	GLU	CA-C-O	5.05	126.45	120.70
6	Q	53	THR	N-CA-C	5.05	116.45	110.19
5	R	74	GLN	OE1-CD-NE2	-5.05	117.55	122.60
5	T	221	LEU	CD1-CG-CD2	-5.05	99.69	110.80
1	A	179	THR	CB-CA-C	5.05	118.57	109.64
1	A	408	THR	CA-C-N	5.05	127.26	120.50
1	A	408	THR	C-N-CA	5.05	127.26	120.50
6	I	532	ASP	CA-CB-CG	5.05	117.65	112.60
6	I	636	ALA	N-CA-C	5.05	117.44	111.33
6	J	54	SER	N-CA-CB	-5.05	101.96	110.49
6	K	274	ILE	N-CA-C	5.05	117.40	111.09
5	N	250	HIS	CA-CB-CG	5.05	118.85	113.80
6	X	452	SER	O-C-N	5.05	127.27	122.07
1	A	999	PRO	CA-C-N	-5.04	113.99	120.65
1	A	999	PRO	C-N-CA	-5.04	113.99	120.65
3	C	425	ASN	CA-C-O	5.04	127.07	120.81
4	E	329	ASN	CA-C-N	5.04	125.32	119.47
4	E	329	ASN	C-N-CA	5.04	125.32	119.47
5	F	65	ILE	N-CA-C	5.04	117.40	111.09
5	G	41	VAL	CA-C-N	5.04	131.18	121.54
5	G	41	VAL	C-N-CA	5.04	131.18	121.54
5	L	203	HIS	ND1-CE1-NE2	5.04	113.44	108.40
6	O	598	SER	N-CA-CB	-5.04	102.70	110.12
6	X	131	VAL	N-CA-C	5.04	114.74	106.72
1	A	141	ASP	O-C-N	5.04	125.31	121.23
1	A	292	VAL	N-CA-CB	-5.04	102.91	111.23
2	B	367	ARG	NH1-CZ-NH2	-5.04	112.74	119.30
3	C	711	VAL	N-CA-CB	5.04	119.55	111.23
4	D	68	VAL	N-CA-C	5.04	115.26	110.42
5	F	112	ALA	CA-C-O	-5.04	114.44	120.54
5	F	267	GLY	CA-C-O	5.04	129.35	120.57
5	G	214	ARG	O-C-N	-5.04	116.45	122.20
6	I	541	SER	N-CA-CB	-5.04	102.71	110.12
6	K	400	ALA	N-CA-C	5.04	117.09	108.67
5	L	183	ASP	CA-CB-CG	5.04	117.64	112.60
6	Q	72	SER	N-CA-C	5.04	116.80	110.24
6	Q	621	SER	N-CA-CB	5.04	117.62	110.06
5	S	82	LEU	O-C-N	5.04	127.27	122.07
6	U	473	GLU	CA-CB-CG	5.04	124.19	114.10
6	W	26	MET	N-CA-CB	-5.04	101.97	110.49
5	Y	67	ASP	CA-CB-CG	5.04	117.64	112.60
5	F	247	PHE	CA-CB-CG	5.04	118.84	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	G	250	HIS	CA-CB-CG	5.04	118.84	113.80
5	H	197	VAL	O-C-N	-5.04	117.81	123.26
6	K	147	ARG	CG-CD-NE	-5.04	100.91	112.00
5	M	231	HIS	N-CA-C	5.04	118.20	111.75
6	O	449	THR	N-CA-C	5.04	117.46	109.24
6	P	152	ARG	NE-CZ-NH2	5.04	123.74	119.20
5	R	71	CYS	N-CA-C	5.04	121.54	110.80
5	R	197	VAL	O-C-N	-5.04	117.82	123.26
6	U	37	LYS	CA-C-O	-5.04	114.81	120.25
6	X	473	GLU	CA-CB-CG	5.04	124.18	114.10
2	B	879	PHE	O-C-N	5.04	129.17	123.27
3	C	765	PRO	CA-C-N	5.04	125.27	119.83
3	C	765	PRO	C-N-CA	5.04	125.27	119.83
5	F	41	VAL	CA-C-N	5.04	131.17	121.54
5	F	41	VAL	C-N-CA	5.04	131.17	121.54
5	H	247	PHE	CA-CB-CG	5.04	118.84	113.80
6	K	621	SER	N-CA-C	5.04	117.43	111.33
6	Q	475	THR	CA-CB-CG2	5.04	119.07	110.50
5	T	192	THR	CA-CB-CG2	5.04	119.07	110.50
1	A	35	GLN	CB-CA-C	-5.04	99.92	109.95
2	B	819	VAL	CA-CB-CG1	5.04	118.97	110.40
3	C	607	HIS	CB-CG-ND1	5.04	130.26	122.70
4	D	27	GLN	CA-C-O	-5.04	115.53	121.07
5	F	113	PRO	CB-CA-C	-5.04	105.36	111.46
6	I	327	TYR	CA-CB-CG	5.04	122.97	113.90
6	J	48	TRP	CB-CA-C	-5.04	102.01	112.44
6	J	391	ILE	CA-CB-CG2	5.04	119.07	110.50
6	P	185	SER	CA-C-N	5.04	127.30	120.65
6	P	185	SER	C-N-CA	5.04	127.30	120.65
6	Q	128	ASP	O-C-N	5.04	128.47	122.27
6	Q	416	ARG	CG-CD-NE	5.04	123.09	112.00
6	W	412	ARG	CB-CA-C	5.04	119.24	111.28
6	W	420	LEU	O-C-N	5.04	129.00	123.16
6	J	411	VAL	O-C-N	5.04	126.83	121.89
5	M	203	HIS	ND1-CE1-NE2	5.04	113.44	108.40
5	N	100	ASP	CA-CB-CG	-5.04	107.56	112.60
6	V	306	TRP	CE2-CD2-CE3	5.04	123.84	118.80
6	X	89	ILE	CA-C-N	5.04	127.53	120.28
6	X	89	ILE	C-N-CA	5.04	127.53	120.28
6	X	560	PRO	N-CA-C	5.04	122.85	112.47
1	A	958	PHE	CG-CD1-CE1	5.04	129.26	120.70
2	B	450	ASP	CA-C-O	-5.04	114.41	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	D	158	HIS	CG-ND1-CE1	-5.04	100.74	109.30
5	H	58	PRO	N-CD-CG	5.04	110.75	103.20
6	J	156	VAL	CA-CB-CG2	5.04	118.96	110.40
6	J	416	ARG	CG-CD-NE	5.04	123.08	112.00
6	J	452	SER	O-C-N	5.04	127.26	122.07
6	Q	103	CYS	N-CA-CB	-5.04	101.98	110.49
6	Q	242	PHE	N-CA-CB	-5.04	102.48	110.28
6	U	75	ASN	CA-C-O	-5.04	113.31	120.51
6	V	635	GLN	N-CA-C	5.04	117.16	111.02
6	X	538	ALA	O-C-N	5.04	127.33	122.09
1	A	438	VAL	CA-C-O	-5.03	115.74	120.22
3	C	191	PRO	N-CA-C	5.03	118.40	110.80
5	G	263	GLY	CA-C-N	5.03	131.15	121.54
5	G	263	GLY	C-N-CA	5.03	131.15	121.54
6	J	365	ASP	CA-CB-CG	5.03	117.63	112.60
6	K	538	ALA	N-CA-C	5.03	116.46	111.07
5	L	11	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
6	Q	24	SER	CA-C-N	5.03	127.02	120.28
6	Q	24	SER	C-N-CA	5.03	127.02	120.28
6	Q	111	PHE	N-CA-CB	5.03	117.70	110.20
6	Q	262	ALA	O-C-N	5.03	127.25	122.07
5	T	234	ARG	CA-C-N	5.03	127.29	120.65
5	T	234	ARG	C-N-CA	5.03	127.29	120.65
6	V	154	ARG	O-C-N	5.03	129.41	122.46
6	W	196	LEU	O-C-N	5.03	127.45	122.12
6	K	453	ASN	N-CA-C	5.03	121.52	110.80
5	N	58	PRO	N-CD-CG	5.03	110.75	103.20
6	U	147	ARG	CG-CD-NE	-5.03	100.93	112.00
1	A	55	SER	O-C-N	5.03	128.79	122.86
1	A	380	ASN	OD1-CG-ND2	-5.03	117.57	122.60
2	B	257	ARG	NE-CZ-NH1	-5.03	116.47	121.50
2	B	320	ASP	OD1-CG-OD2	5.03	134.97	122.90
2	B	482	SER	CA-C-O	-5.03	114.42	120.10
3	C	305	THR	CA-CB-CG2	5.03	119.05	110.50
3	C	660	SER	N-CA-C	5.03	116.64	109.14
3	C	858	VAL	CA-C-O	-5.03	115.52	120.85
3	C	1049	SER	N-CA-C	5.03	121.52	110.80
3	C	1189	THR	CB-CA-C	5.03	118.07	109.72
4	D	127	THR	CA-C-N	5.03	126.98	120.44
4	D	127	THR	C-N-CA	5.03	126.98	120.44
4	E	92	TRP	O-C-N	5.03	129.12	122.93
5	F	248	ALA	N-CA-C	5.03	117.03	109.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	K	178	SER	O-C-N	5.03	129.16	123.42
6	K	430	THR	CA-CB-OG1	5.03	117.15	109.60
6	K	582	LEU	N-CA-C	5.03	118.19	111.75
5	L	48	ILE	CB-CG1-CD1	5.03	124.37	113.80
6	Q	66	ASP	O-C-N	5.03	128.11	122.22
5	R	241	ALA	N-CA-CB	-5.03	101.35	109.60
6	V	219	LYS	CB-CG-CD	5.03	122.87	111.30
5	Y	211	ALA	CB-CA-C	5.03	118.86	110.81
5	Y	240	PRO	N-CA-C	5.03	118.40	110.50
1	A	493	VAL	N-CA-C	5.03	115.75	110.62
2	B	770	PRO	N-CD-CG	5.03	110.74	103.20
5	N	164	ASP	CA-C-N	5.03	131.15	121.54
5	N	164	ASP	C-N-CA	5.03	131.15	121.54
5	R	263	GLY	CA-C-N	5.03	131.15	121.54
5	R	263	GLY	C-N-CA	5.03	131.15	121.54
5	S	35	PHE	CA-CB-CG	-5.03	108.77	113.80
5	S	71	CYS	N-CA-C	5.03	121.51	110.80
6	U	604	VAL	CA-CB-CG1	5.03	118.95	110.40
6	V	377	GLN	N-CA-C	5.03	117.27	107.71
1	A	653	SER	O-C-N	-5.03	114.48	121.72
2	B	522	GLY	O-C-N	-5.03	115.66	122.35
2	B	544	VAL	CA-C-O	5.03	126.45	120.72
4	E	247	VAL	CA-CB-CG2	5.03	118.94	110.40
6	K	489	VAL	CA-CB-CG1	5.03	118.95	110.40
5	M	40	TYR	N-CA-C	5.03	118.99	107.48
6	P	437	ILE	O-C-N	5.03	129.07	122.94
6	Q	126	ALA	N-CA-C	5.03	117.65	111.82
6	U	452	SER	O-C-N	5.03	127.25	122.07
6	V	645	TRP	CA-CB-CG	5.03	123.15	113.60
1	A	501	VAL	CA-CB-CG2	5.03	118.94	110.40
1	A	1160	TYR	N-CA-C	5.03	119.76	113.43
2	B	1056	VAL	CA-C-O	5.03	126.64	121.41
3	C	930	ARG	NE-CZ-NH2	5.03	123.72	119.20
4	E	16	GLN	N-CA-C	5.03	116.21	109.83
5	G	28	THR	N-CA-C	5.03	119.48	112.90
6	I	549	LEU	CB-CA-C	5.03	119.87	111.83
6	J	34	ILE	CA-C-O	-5.03	116.04	121.92
6	K	131	VAL	N-CA-C	5.03	114.71	106.72
6	K	391	ILE	CA-CB-CG2	5.03	119.05	110.50
5	L	276	ASP	CB-CA-C	5.03	119.65	110.10
5	M	263	GLY	CA-C-N	5.03	131.14	121.54
5	M	263	GLY	C-N-CA	5.03	131.14	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	O	145	LEU	N-CA-C	5.03	116.45	110.97
6	Q	77	GLY	CA-C-O	5.03	125.99	120.66
6	Q	489	VAL	CA-CB-CG1	5.03	118.94	110.40
5	T	267	GLY	CA-C-O	5.03	129.32	120.57
6	U	368	THR	N-CA-C	5.03	121.50	110.80
6	V	146	GLN	N-CA-C	5.03	117.14	111.11
6	W	365	ASP	CA-CB-CG	5.03	117.62	112.60
5	G	69	HIS	CB-CG-CD2	-5.02	124.67	131.20
5	M	122	SER	N-CA-C	5.02	117.59	110.10
5	N	201	HIS	CG-CD2-NE2	5.02	112.22	107.20
1	A	319	GLN	CA-C-O	-5.02	114.94	120.36
1	A	713	VAL	CA-C-O	-5.02	115.02	121.40
2	B	1085	LEU	CA-C-O	-5.02	115.53	121.16
3	C	1067	VAL	CA-CB-CG1	5.02	118.94	110.40
4	E	110	PRO	N-CA-CB	5.02	108.52	103.25
6	I	373	PHE	CB-CA-C	5.02	118.41	109.72
5	L	240	PRO	N-CA-C	5.02	118.39	110.50
6	O	288	SER	N-CA-C	5.02	117.80	109.46
6	P	306	TRP	CE2-CD2-CE3	5.02	123.82	118.80
6	P	537	SER	O-C-N	-5.02	115.86	122.39
6	Q	427	GLU	CA-C-O	5.02	126.43	120.70
5	S	201	HIS	CG-CD2-NE2	5.02	112.22	107.20
6	V	21	THR	N-CA-C	5.02	118.25	108.21
6	W	462	GLY	CA-C-N	-5.02	114.78	122.87
6	W	462	GLY	C-N-CA	-5.02	114.78	122.87
5	Y	145	ARG	CB-CG-CD	-5.02	99.75	111.30
1	A	253	SER	CA-CB-OG	5.02	121.14	111.10
1	A	566	LEU	CA-C-N	5.02	127.32	120.54
1	A	566	LEU	C-N-CA	5.02	127.32	120.54
2	B	941	TYR	CA-C-O	-5.02	115.53	120.90
5	F	252	THR	CA-C-O	-5.02	113.33	120.51
6	Q	186	LEU	CB-CA-C	5.02	118.69	110.96
5	T	113	PRO	CA-CB-CG	5.02	114.04	104.50
1	A	38	ASN	N-CA-C	5.02	118.98	113.21
1	A	439	PHE	CB-CG-CD2	5.02	129.23	120.70
1	A	847	PRO	N-CA-CB	5.02	107.95	103.08
3	C	32	SER	CA-CB-OG	5.02	121.14	111.10
3	C	1178	ARG	CB-CA-C	-5.02	101.62	109.70
4	E	356	ASN	CA-CB-CG	5.02	117.62	112.60
6	I	186	LEU	CB-CA-C	5.02	118.69	110.96
6	K	260	SER	O-C-N	-5.02	116.80	122.12
6	Q	396	VAL	CA-CB-CG2	5.02	118.93	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	R	131	ARG	CA-CB-CG	5.02	124.14	114.10
6	U	421	HIS	O-C-N	5.02	129.53	123.01
6	W	179	ALA	O-C-N	5.02	129.72	123.19
6	X	613	LEU	N-CA-C	5.02	121.49	110.80
5	Y	59	HIS	O-C-N	5.02	127.44	122.12
1	A	108	ASN	CA-CB-CG	5.02	117.62	112.60
1	A	1019	TYR	N-CA-C	5.02	116.83	111.36
1	A	1271	VAL	CA-CB-CG2	5.02	118.93	110.40
3	C	241	ASN	OD1-CG-ND2	5.02	127.62	122.60
4	E	278	ILE	O-C-N	5.02	126.81	121.89
6	J	390	ASN	CB-CG-OD1	5.02	130.84	120.80
6	J	393	ALA	N-CA-C	5.02	116.80	108.02
6	K	387	THR	CA-CB-CG2	5.02	119.03	110.50
6	K	412	ARG	N-CA-C	-5.02	104.80	111.87
6	U	291	PRO	CA-C-O	-5.02	115.81	121.43
6	V	75	ASN	CA-C-O	-5.02	113.33	120.51
6	W	96	PHE	CD1-CG-CD2	5.02	126.13	118.60
1	A	503	PRO	CA-C-N	5.02	127.70	120.38
1	A	503	PRO	C-N-CA	5.02	127.70	120.38
2	B	426	ASN	O-C-N	-5.02	115.92	122.59
5	F	263	GLY	CA-C-N	5.02	131.12	121.54
5	F	263	GLY	C-N-CA	5.02	131.12	121.54
6	I	125	ASP	N-CA-CB	5.02	117.49	110.12
6	O	183	TRP	CA-CB-CG	5.02	123.13	113.60
6	P	493	GLN	N-CA-C	5.02	116.76	108.13
6	W	90	ASN	OD1-CG-ND2	-5.02	117.58	122.60
6	W	271	LEU	CA-C-N	5.02	131.12	121.54
6	W	271	LEU	C-N-CA	5.02	131.12	121.54
1	A	1172	GLN	CG-CD-OE1	5.01	130.83	120.80
5	F	82	LEU	O-C-N	5.01	127.23	122.07
6	I	393	ALA	N-CA-C	5.01	116.80	108.02
6	K	533	ASP	CB-CA-C	5.01	118.41	109.38
5	M	198	HIS	ND1-CG-CD2	5.01	111.11	106.10
6	U	636	ALA	N-CA-C	5.01	117.40	111.33
1	A	203	THR	CA-C-O	-5.01	114.77	120.58
2	B	486	LEU	N-CA-C	5.01	116.86	108.99
2	B	949	HIS	CA-CB-CG	5.01	118.81	113.80
4	D	331	VAL	N-CA-CB	5.01	118.23	111.21
4	E	53	VAL	CA-CB-CG2	5.01	118.92	110.40
5	G	65	ILE	N-CA-C	5.01	117.36	111.09
6	I	318	LYS	CB-CG-CD	5.01	122.83	111.30
6	U	560	PRO	N-CA-C	5.01	122.80	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	700	TRP	N-CA-CB	-5.01	102.51	110.28
2	B	758	LEU	N-CA-C	5.01	117.13	111.02
3	C	869	SER	O-C-N	5.01	127.43	122.12
6	O	28	SER	CA-CB-OG	5.01	121.12	111.10
6	O	319	THR	O-C-N	5.01	129.26	123.30
6	Q	54	SER	N-CA-CB	-5.01	102.02	110.49
6	Q	310	PHE	CA-CB-CG	5.01	118.81	113.80
5	S	251	SER	CB-CA-C	5.01	120.39	110.42
6	U	466	VAL	N-CA-CB	-5.01	104.73	110.49
6	V	21	THR	CA-C-O	5.01	127.50	120.64
6	V	27	THR	CA-C-N	-5.01	111.97	121.54
6	V	27	THR	C-N-CA	-5.01	111.97	121.54
2	B	676	VAL	CA-C-N	5.01	130.97	122.65
2	B	676	VAL	C-N-CA	5.01	130.97	122.65
4	D	195	GLN	N-CA-C	5.01	118.16	111.75
4	D	343	GLN	OE1-CD-NE2	-5.01	117.59	122.60
6	K	107	VAL	CB-CA-C	5.01	119.50	111.29
6	K	248	GLU	CB-CA-C	5.01	118.07	109.15
6	O	532	ASP	CA-C-N	5.01	129.91	123.00
6	O	532	ASP	C-N-CA	5.01	129.91	123.00
6	P	393	ALA	N-CA-C	5.01	116.79	108.02
6	Q	369	SER	CB-CA-C	-5.01	102.62	110.79
6	U	277	ASP	N-CA-C	5.01	119.25	112.04
6	V	225	THR	CA-C-N	5.01	129.16	121.19
6	V	225	THR	C-N-CA	5.01	129.16	121.19
6	V	493	GLN	N-CA-C	5.01	116.75	108.13
2	B	947	ARG	CA-C-N	5.01	130.22	123.11
2	B	947	ARG	C-N-CA	5.01	130.22	123.11
3	C	450	ASP	N-CA-CB	5.01	117.57	110.16
4	E	127	THR	OG1-CB-CG2	5.01	119.31	109.30
5	F	74	GLN	OE1-CD-NE2	-5.01	117.59	122.60
6	J	598	SER	N-CA-CB	-5.01	102.76	110.12
6	K	575	MET	CA-C-O	-5.01	115.54	120.90
6	Q	400	ALA	N-CA-C	5.01	117.03	108.67
5	S	115	ALA	CB-CA-C	5.01	118.15	110.14
1	A	778	PRO	N-CA-CB	5.01	107.62	103.17
1	A	1042	THR	CA-C-N	5.01	126.10	119.84
1	A	1042	THR	C-N-CA	5.01	126.10	119.84
3	C	1209	TYR	N-CA-C	5.01	117.22	108.76
4	D	257	ALA	N-CA-C	5.01	120.87	109.81
4	E	404	VAL	CA-CB-CG1	5.01	118.91	110.40
5	G	40	TYR	N-CA-C	5.01	118.95	107.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	H	145	ARG	CB-CG-CD	-5.01	99.78	111.30
6	I	271	LEU	CA-C-N	5.01	131.10	121.54
6	I	271	LEU	C-N-CA	5.01	131.10	121.54
6	I	491	ALA	N-CA-C	5.01	118.68	112.47
6	P	18	ASN	CA-C-O	5.01	126.46	120.70
6	Q	174	ILE	CA-C-O	5.01	127.20	120.69
5	S	67	ASP	CA-CB-CG	5.01	117.61	112.60
6	U	440	LEU	N-CA-CB	-5.01	103.47	111.43
5	Y	134	ASP	OD1-CG-OD2	5.01	134.92	122.90
1	A	543	PRO	O-C-N	5.00	129.25	122.89
5	N	145	ARG	CB-CG-CD	-5.00	99.79	111.30
5	N	240	PRO	N-CA-C	5.00	118.36	110.50
6	O	186	LEU	CB-CA-C	5.00	118.67	110.96
6	U	262	ALA	O-C-N	5.00	127.23	122.07
6	U	549	LEU	CB-CA-C	5.00	119.84	111.83
6	W	319	THR	O-C-N	5.00	129.26	123.30
6	X	636	ALA	N-CA-C	5.00	117.39	111.33
1	A	529	ASP	CA-C-N	5.00	134.01	121.80
1	A	529	ASP	C-N-CA	5.00	134.01	121.80
2	B	725	THR	CA-CB-OG1	5.00	117.11	109.60
2	B	1129	THR	CA-CB-OG1	5.00	117.10	109.60
3	C	578	ASP	CA-C-N	5.00	125.03	119.32
3	C	578	ASP	C-N-CA	5.00	125.03	119.32
4	D	29	LEU	CB-CA-C	5.00	120.38	110.42
5	F	45	ARG	N-CA-C	5.00	121.46	110.80
5	F	197	VAL	O-C-N	-5.00	117.86	123.26
5	H	276	ASP	CB-CA-C	5.00	119.61	110.10
6	I	529	SER	CA-C-N	5.00	131.10	121.54
6	I	529	SER	C-N-CA	5.00	131.10	121.54
6	I	560	PRO	N-CA-CB	5.00	108.50	103.25
6	J	37	LYS	CA-C-O	-5.00	114.84	120.25
6	J	176	ALA	N-CA-C	5.00	116.31	107.61
6	O	593	GLN	CB-CA-C	5.00	119.81	111.30
6	Q	575	MET	CA-C-O	-5.00	115.55	120.90
5	T	232	GLN	N-CA-CB	-5.00	102.56	110.06
6	V	34	ILE	CA-C-O	-5.00	115.85	121.75
6	V	487	ALA	N-CA-C	5.00	118.15	111.75
6	W	152	ARG	CB-CA-C	5.00	118.74	110.88
6	W	576	PHE	O-C-N	5.00	127.29	122.09
6	X	563	PRO	CA-N-CD	-5.00	105.00	112.00
1	A	983	ALA	N-CA-C	5.00	121.45	110.80
2	B	710	ARG	N-CA-C	5.00	116.42	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	969	MET	CA-CB-CG	5.00	124.10	114.10
4	D	222	ARG	N-CA-C	5.00	116.73	111.28
5	F	21	ARG	NE-CZ-NH2	5.00	123.70	119.20
5	H	77	GLU	N-CA-C	5.00	117.12	111.02
6	I	284	VAL	N-CA-CB	-5.00	104.17	110.57
6	J	262	ALA	N-CA-C	5.00	116.42	111.07
6	U	156	VAL	CA-CB-CG2	5.00	118.90	110.40
6	W	212	ILE	O-C-N	-5.00	117.02	121.87
6	W	396	VAL	CA-CB-CG2	5.00	118.90	110.40
6	X	256	SER	CA-C-N	5.00	127.29	120.54
6	X	256	SER	C-N-CA	5.00	127.29	120.54

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
3	C	315	SER	CA

All (3076) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1000	TYR	Sidechain
1	A	1005	GLY	Mainchain
1	A	1006	SER	Mainchain
1	A	1017	ILE	Mainchain
1	A	1019	TYR	Sidechain,Mainchain
1	A	102	ARG	Sidechain
1	A	1022	LEU	Mainchain
1	A	103	TYR	Sidechain
1	A	1037	VAL	Mainchain
1	A	1049	ALA	Mainchain
1	A	105	LEU	Mainchain
1	A	1051	ARG	Sidechain
1	A	1066	ASN	Sidechain
1	A	107	GLN	Mainchain
1	A	1089	TYR	Sidechain
1	A	1096	PHE	Sidechain
1	A	11	PRO	Mainchain
1	A	1102	PRO	Mainchain
1	A	1104	LEU	Mainchain
1	A	111	ARG	Sidechain
1	A	1111	PHE	Sidechain,Mainchain
1	A	112	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	A	1121	PRO	Mainchain
1	A	1123	GLY	Mainchain
1	A	1135	ALA	Mainchain
1	A	1142	ARG	Sidechain
1	A	1146	PHE	Sidechain
1	A	1147	THR	Mainchain
1	A	1149	VAL	Mainchain
1	A	1151	ASN	Mainchain
1	A	1153	ALA	Mainchain
1	A	1155	ILE	Mainchain
1	A	1160	TYR	Sidechain
1	A	1161	TYR	Sidechain
1	A	1169	LYS	Mainchain
1	A	1173	TYR	Sidechain
1	A	1175	ARG	Mainchain
1	A	1177	ASN	Mainchain
1	A	1182	SER	Mainchain
1	A	1189	ASN	Mainchain
1	A	119	GLY	Mainchain
1	A	1191	ASP	Mainchain
1	A	1193	HIS	Sidechain
1	A	120	ALA	Mainchain
1	A	1202	HIS	Mainchain
1	A	1206	TYR	Sidechain
1	A	1207	LEU	Peptide
1	A	1209	ASP	Mainchain
1	A	122	PHE	Mainchain
1	A	1224	VAL	Mainchain
1	A	1231	PHE	Mainchain
1	A	1233	ARG	Sidechain
1	A	1243	TYR	Sidechain
1	A	1247	GLY	Mainchain
1	A	1257	PHE	Sidechain
1	A	1263	PRO	Peptide
1	A	1266	VAL	Mainchain
1	A	1272	ALA	Mainchain
1	A	1273	LEU	Mainchain
1	A	1274	ALA	Mainchain
1	A	1284	TYR	Sidechain
1	A	1287	TYR	Sidechain
1	A	1290	PRO	Mainchain
1	A	1294	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	A	1296	TYR	Sidechain
1	A	1297	VAL	Mainchain
1	A	13	LEU	Mainchain
1	A	133	ILE	Mainchain
1	A	135	LEU	Mainchain
1	A	137	ARG	Sidechain
1	A	139	PHE	Sidechain
1	A	140	TYR	Sidechain
1	A	149	THR	Mainchain
1	A	156	TYR	Sidechain
1	A	163	ASN	Sidechain
1	A	165	THR	Mainchain
1	A	171	THR	Mainchain
1	A	173	ALA	Mainchain
1	A	177	TYR	Sidechain
1	A	183	TYR	Sidechain
1	A	186	SER	Mainchain
1	A	19	ARG	Sidechain
1	A	194	TYR	Sidechain
1	A	195	GLY	Mainchain
1	A	198	ARG	Sidechain
1	A	20	ARG	Sidechain
1	A	206	TYR	Sidechain
1	A	207	TYR	Sidechain,Mainchain
1	A	211	PRO	Mainchain
1	A	215	ARG	Mainchain
1	A	22	PHE	Mainchain
1	A	223	GLY	Peptide
1	A	230	PHE	Mainchain
1	A	234	THR	Mainchain
1	A	235	TYR	Sidechain,Mainchain
1	A	240	LEU	Mainchain
1	A	246	ASP	Mainchain
1	A	250	TYR	Sidechain,Mainchain
1	A	251	SER	Mainchain
1	A	258	ALA	Mainchain
1	A	266	VAL	Mainchain
1	A	268	ASP	Mainchain
1	A	271	ARG	Sidechain
1	A	280	THR	Mainchain
1	A	287	GLN	Mainchain
1	A	289	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	A	295	PHE	Sidechain
1	A	300	PHE	Mainchain
1	A	301	ASN	Sidechain
1	A	305	GLN	Mainchain
1	A	309	ASN	Sidechain
1	A	31	LEU	Mainchain
1	A	316	GLN	Sidechain
1	A	318	VAL	Mainchain
1	A	325	PRO	Mainchain
1	A	33	ARG	Sidechain
1	A	330	MET	Mainchain
1	A	333	VAL	Mainchain
1	A	334	ARG	Mainchain
1	A	338	ALA	Mainchain
1	A	339	ARG	Sidechain
1	A	344	GLY	Mainchain
1	A	348	GLN	Mainchain
1	A	349	TRP	Mainchain
1	A	350	PHE	Sidechain
1	A	352	TYR	Sidechain
1	A	359	TYR	Sidechain
1	A	372	PHE	Sidechain
1	A	373	TYR	Sidechain,Mainchain
1	A	380	ASN	Mainchain
1	A	381	PHE	Sidechain,Mainchain
1	A	385	THR	Mainchain
1	A	388	TYR	Sidechain
1	A	390	VAL	Mainchain
1	A	394	ALA	Mainchain
1	A	395	SER	Mainchain
1	A	396	ARG	Mainchain
1	A	400	LEU	Mainchain
1	A	402	PRO	Mainchain
1	A	404	TYR	Sidechain,Mainchain
1	A	411	VAL	Mainchain
1	A	412	GLN	Mainchain
1	A	414	ALA	Mainchain
1	A	418	TYR	Sidechain
1	A	427	ILE	Mainchain
1	A	430	HIS	Mainchain
1	A	432	PHE	Sidechain,Mainchain
1	A	435	THR	Mainchain

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Mol	Chain	Res	Type	Group
1	A	437	GLY	Mainchain
1	A	438	VAL	Mainchain
1	A	44	TYR	Sidechain
1	A	440	THR	Mainchain
1	A	443	TYR	Sidechain
1	A	446	SER	Mainchain
1	A	45	ARG	Sidechain
1	A	452	TYR	Sidechain
1	A	458	VAL	Mainchain
1	A	462	ASN	Mainchain
1	A	464	TYR	Sidechain
1	A	471	ALA	Mainchain
1	A	472	ARG	Sidechain
1	A	476	PHE	Sidechain
1	A	477	ARG	Sidechain
1	A	484	ASP	Mainchain
1	A	485	ARG	Mainchain
1	A	487	ALA	Mainchain
1	A	488	ILE	Mainchain
1	A	493	VAL	Mainchain
1	A	495	ASP	Mainchain
1	A	496	PHE	Sidechain,Mainchain
1	A	497	LEU	Mainchain
1	A	499	SER	Mainchain
1	A	5	PHE	Sidechain
1	A	506	ALA	Mainchain
1	A	509	VAL	Mainchain
1	A	51	PRO	Mainchain
1	A	518	TYR	Sidechain
1	A	535	ALA	Mainchain
1	A	538	ARG	Sidechain,Mainchain
1	A	547	ILE	Peptide
1	A	551	ILE	Mainchain
1	A	554	PHE	Sidechain
1	A	555	GLY	Mainchain
1	A	56	ALA	Mainchain
1	A	567	SER	Mainchain
1	A	570	VAL	Mainchain
1	A	571	PRO	Mainchain
1	A	572	THR	Mainchain
1	A	58	VAL	Mainchain
1	A	585	VAL	Mainchain

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Mol	Chain	Res	Type	Group
1	A	591	ASP	Mainchain
1	A	594	ALA	Mainchain
1	A	599	ALA	Mainchain
1	A	621	ASN	Mainchain
1	A	630	GLN	Mainchain
1	A	635	TYR	Sidechain
1	A	644	LEU	Mainchain
1	A	652	SER	Mainchain
1	A	653	SER	Mainchain
1	A	656	PHE	Sidechain
1	A	659	PHE	Sidechain,Mainchain
1	A	663	GLN	Mainchain
1	A	668	LEU	Mainchain
1	A	669	ARG	Sidechain
1	A	675	GLN	Sidechain
1	A	676	ARG	Sidechain
1	A	677	ALA	Mainchain
1	A	678	LEU	Mainchain
1	A	679	LEU	Mainchain
1	A	680	SER	Mainchain
1	A	682	TYR	Sidechain
1	A	689	ASP	Mainchain
1	A	690	ARG	Sidechain
1	A	694	HIS	Sidechain
1	A	697	PHE	Sidechain
1	A	698	PHE	Sidechain
1	A	699	GLY	Mainchain
1	A	717	ASP	Peptide
1	A	72	HIS	Mainchain
1	A	735	LEU	Mainchain
1	A	746	PHE	Sidechain
1	A	750	PRO	Mainchain
1	A	760	TYR	Sidechain
1	A	769	ARG	Sidechain
1	A	770	ARG	Sidechain
1	A	773	ARG	Sidechain
1	A	787	HIS	Sidechain
1	A	790	ARG	Sidechain
1	A	791	PHE	Mainchain
1	A	792	THR	Mainchain
1	A	798	THR	Mainchain
1	A	80	ASP	Mainchain

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Mol	Chain	Res	Type	Group
1	A	803	GLU	Mainchain
1	A	81	TYR	Sidechain
1	A	813	ALA	Mainchain
1	A	820	SER	Mainchain
1	A	822	GLN	Mainchain
1	A	826	PRO	Mainchain
1	A	835	GLY	Mainchain
1	A	838	PRO	Mainchain
1	A	839	GLU	Sidechain,Mainchain
1	A	853	THR	Mainchain
1	A	863	LEU	Mainchain
1	A	867	PHE	Sidechain
1	A	87	PHE	Sidechain
1	A	870	ALA	Mainchain
1	A	877	GLY	Mainchain
1	A	879	TYR	Sidechain
1	A	889	ARG	Mainchain
1	A	89	HIS	Sidechain,Mainchain
1	A	891	ASP	Sidechain
1	A	897	PHE	Sidechain
1	A	901	ALA	Mainchain
1	A	904	ALA	Mainchain
1	A	910	LEU	Mainchain
1	A	911	ILE	Mainchain
1	A	913	PHE	Sidechain
1	A	925	GLY	Mainchain
1	A	928	ARG	Mainchain
1	A	930	TRP	Mainchain
1	A	932	GLN	Mainchain
1	A	938	TYR	Sidechain
1	A	94	ALA	Mainchain
1	A	956	TYR	Sidechain
1	A	957	ARG	Mainchain
1	A	963	ARG	Sidechain,Mainchain
1	A	967	TYR	Sidechain
1	A	97	GLY	Mainchain
1	A	970	PRO	Mainchain
1	A	975	GLN	Mainchain
2	B	1004	PHE	Sidechain
2	B	1006	ARG	Sidechain
2	B	1010	ASN	Mainchain
2	B	1014	VAL	Mainchain

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Mol	Chain	Res	Type	Group
2	B	1015	GLY	Mainchain
2	B	1017	PHE	Sidechain
2	B	1018	GLY	Mainchain
2	B	1020	ILE	Mainchain
2	B	1029	PRO	Mainchain
2	B	1040	ASP	Mainchain
2	B	1041	ILE	Mainchain
2	B	1045	TRP	Mainchain
2	B	1047	TYR	Sidechain
2	B	1062	TYR	Sidechain
2	B	1070	GLY	Mainchain
2	B	1071	ARG	Sidechain
2	B	1077	GLU	Mainchain
2	B	1083	TYR	Sidechain
2	B	1087	TYR	Sidechain
2	B	1088	TYR	Sidechain
2	B	1090	PRO	Mainchain
2	B	1099	ILE	Mainchain
2	B	1101	GLU	Sidechain,Mainchain
2	B	1104	LEU	Mainchain
2	B	1107	ILE	Mainchain
2	B	1111	GLY	Mainchain
2	B	1112	ILE	Mainchain
2	B	1117	PHE	Mainchain
2	B	1128	ILE	Mainchain
2	B	1131	ARG	Sidechain
2	B	1132	ARG	Mainchain
2	B	1135	TYR	Sidechain
2	B	1143	ASN	Sidechain
2	B	1148	SER	Mainchain
2	B	1150	ASN	Mainchain
2	B	1155	ASP	Mainchain
2	B	1156	THR	Mainchain
2	B	1157	ALA	Mainchain
2	B	1168	ARG	Sidechain
2	B	1177	TYR	Sidechain
2	B	1178	ARG	Sidechain
2	B	1181	THR	Mainchain
2	B	1182	ASN	Sidechain
2	B	1190	LEU	Mainchain
2	B	1191	TYR	Sidechain
2	B	1197	TYR	Sidechain

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Mol	Chain	Res	Type	Group
2	B	1198	ASN	Mainchain
2	B	1201	TYR	Sidechain
2	B	1211	ARG	Sidechain
2	B	194	ILE	Mainchain
2	B	209	ASN	Sidechain
2	B	225	PHE	Sidechain
2	B	229	TYR	Sidechain
2	B	241	ASN	Mainchain
2	B	243	ILE	Mainchain
2	B	271	VAL	Mainchain
2	B	272	HIS	Sidechain,Mainchain
2	B	282	TYR	Sidechain
2	B	288	PHE	Sidechain
2	B	289	ASN	Sidechain
2	B	290	PRO	Mainchain
2	B	293	LEU	Mainchain
2	B	298	LEU	Mainchain
2	B	307	SER	Mainchain
2	B	309	LEU	Peptide
2	B	325	THR	Mainchain
2	B	330	ILE	Mainchain
2	B	331	ARG	Sidechain
2	B	333	PHE	Mainchain
2	B	336	ARG	Mainchain
2	B	344	TYR	Sidechain
2	B	353	GLN	Mainchain
2	B	355	LYS	Mainchain
2	B	360	LEU	Mainchain
2	B	366	ASP	Mainchain
2	B	367	ARG	Sidechain
2	B	373	ARG	Sidechain,Mainchain
2	B	377	ILE	Mainchain
2	B	378	GLY	Mainchain
2	B	382	SER	Mainchain
2	B	388	MET	Mainchain
2	B	397	HIS	Sidechain
2	B	398	ILE	Mainchain
2	B	399	ARG	Mainchain
2	B	404	MET	Mainchain
2	B	416	ILE	Mainchain
2	B	418	GLN	Mainchain
2	B	419	ILE	Mainchain

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Mol	Chain	Res	Type	Group
2	B	421	ASN	Mainchain
2	B	426	ASN	Mainchain
2	B	431	THR	Mainchain
2	B	437	ARG	Sidechain,Mainchain
2	B	441	LEU	Mainchain
2	B	444	TRP	Mainchain
2	B	446	ALA	Mainchain
2	B	449	GLU	Sidechain
2	B	450	ASP	Sidechain
2	B	459	LEU	Mainchain
2	B	464	SER	Mainchain
2	B	472	LEU	Mainchain
2	B	473	VAL	Mainchain
2	B	475	ALA	Mainchain
2	B	476	LEU	Mainchain
2	B	481	ARG	Sidechain
2	B	489	ASP	Sidechain
2	B	491	THR	Mainchain
2	B	496	ALA	Mainchain
2	B	498	THR	Mainchain
2	B	500	ILE	Mainchain
2	B	508	ILE	Mainchain
2	B	510	PRO	Mainchain
2	B	522	GLY	Mainchain
2	B	525	TYR	Sidechain
2	B	527	ALA	Mainchain
2	B	528	PHE	Sidechain
2	B	533	ALA	Mainchain
2	B	537	TYR	Sidechain,Mainchain
2	B	542	THR	Mainchain
2	B	549	ALA	Mainchain
2	B	551	PRO	Mainchain
2	B	554	SER	Mainchain
2	B	558	THR	Mainchain
2	B	559	HIS	Sidechain
2	B	562	SER	Mainchain
2	B	567	LEU	Mainchain
2	B	568	PHE	Mainchain
2	B	577	SER	Mainchain
2	B	580	HIS	Sidechain
2	B	591	ASN	Mainchain
2	B	594	ALA	Mainchain

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Mol	Chain	Res	Type	Group
2	B	599	ILE	Mainchain
2	B	607	HIS	Sidechain
2	B	614	GLN	Sidechain,Mainchain
2	B	641	ALA	Mainchain
2	B	645	HIS	Mainchain
2	B	650	TRP	Mainchain
2	B	656	PHE	Sidechain
2	B	658	TYR	Sidechain
2	B	661	THR	Mainchain
2	B	666	ALA	Peptide,Mainchain
2	B	677	TYR	Sidechain
2	B	678	PRO	Mainchain
2	B	689	VAL	Mainchain
2	B	693	TYR	Sidechain
2	B	694	ASP	Mainchain
2	B	701	ILE	Mainchain
2	B	705	ILE	Mainchain
2	B	707	PHE	Sidechain
2	B	710	ARG	Sidechain
2	B	722	ASN	Sidechain
2	B	727	ARG	Mainchain
2	B	729	MET	Mainchain
2	B	730	THR	Mainchain
2	B	737	ARG	Sidechain
2	B	745	PHE	Sidechain
2	B	752	PRO	Mainchain
2	B	755	LEU	Mainchain
2	B	767	PHE	Sidechain
2	B	772	THR	Mainchain
2	B	787	ARG	Sidechain
2	B	793	ARG	Sidechain
2	B	800	ILE	Mainchain
2	B	804	HIS	Sidechain
2	B	807	PHE	Sidechain
2	B	819	VAL	Mainchain
2	B	828	GLU	Mainchain
2	B	837	TYR	Sidechain
2	B	842	ALA	Mainchain
2	B	851	PHE	Sidechain
2	B	852	THR	Mainchain
2	B	854	ASN	Mainchain
2	B	862	GLU	Sidechain

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Mol	Chain	Res	Type	Group
2	B	867	ALA	Mainchain
2	B	878	GLY	Peptide
2	B	879	PHE	Sidechain
2	B	880	LEU	Mainchain
2	B	884	PRO	Mainchain
2	B	885	LEU	Mainchain
2	B	889	ARG	Mainchain
2	B	903	HIS	Sidechain
2	B	905	VAL	Mainchain
2	B	911	THR	Mainchain
2	B	913	PHE	Sidechain
2	B	915	LEU	Mainchain
2	B	923	LEU	Mainchain
2	B	925	LEU	Mainchain
2	B	926	TYR	Sidechain
2	B	932	ALA	Mainchain
2	B	933	ASP	Mainchain
2	B	937	ALA	Mainchain
2	B	940	GLN	Mainchain
2	B	941	TYR	Sidechain
2	B	942	GLY	Mainchain
2	B	946	VAL	Mainchain
2	B	947	ARG	Sidechain
2	B	952	PRO	Mainchain
2	B	956	HIS	Sidechain,Mainchain
2	B	973	ASN	Mainchain
3	C	1000	ALA	Mainchain
3	C	1004	PHE	Sidechain,Mainchain
3	C	1010	ASN	Mainchain
3	C	1015	GLY	Mainchain
3	C	1018	GLY	Mainchain
3	C	1022	PRO	Mainchain
3	C	1034	ASP	Mainchain
3	C	1036	ASN	Sidechain
3	C	1047	TYR	Sidechain
3	C	1050	ASP	Mainchain
3	C	1052	LEU	Mainchain
3	C	1056	VAL	Mainchain
3	C	1059	PHE	Sidechain
3	C	1062	TYR	Sidechain
3	C	1065	PRO	Mainchain
3	C	1069	ALA	Mainchain

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Mol	Chain	Res	Type	Group
3	C	1073	ARG	Mainchain
3	C	1074	VAL	Mainchain
3	C	1076	VAL	Mainchain
3	C	1080	HIS	Sidechain
3	C	1081	TYR	Sidechain
3	C	1083	TYR	Sidechain
3	C	1084	THR	Mainchain
3	C	1086	HIS	Sidechain
3	C	1088	TYR	Mainchain
3	C	1090	PRO	Mainchain
3	C	1095	ASP	Mainchain
3	C	1097	ALA	Mainchain
3	C	1100	LEU	Mainchain
3	C	1103	TRP	Mainchain
3	C	1104	LEU	Mainchain
3	C	1110	ALA	Mainchain
3	C	1118	CYS	Mainchain
3	C	1125	TYR	Sidechain
3	C	1127	CYS	Mainchain
3	C	1129	THR	Mainchain
3	C	1131	ARG	Sidechain
3	C	1132	ARG	Mainchain
3	C	1135	TYR	Sidechain,Mainchain
3	C	1136	ALA	Mainchain
3	C	1137	PHE	Mainchain
3	C	1147	PHE	Sidechain
3	C	115	SER	Mainchain
3	C	1161	ASN	Mainchain
3	C	1163	ALA	Mainchain
3	C	117	TYR	Sidechain
3	C	1177	TYR	Sidechain
3	C	1178	ARG	Sidechain
3	C	118	VAL	Mainchain
3	C	1182	ASN	Mainchain
3	C	1183	ASP	Mainchain
3	C	1184	LEU	Mainchain
3	C	1190	LEU	Mainchain
3	C	1191	TYR	Sidechain,Mainchain
3	C	1192	ASN	Mainchain
3	C	1193	SER	Mainchain
3	C	1195	TYR	Sidechain
3	C	1196	ARG	Sidechain

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Mol	Chain	Res	Type	Group
3	C	1199	PHE	Sidechain
3	C	1201	TYR	Sidechain
3	C	1207	ILE	Mainchain
3	C	1208	MET	Mainchain
3	C	1209	TYR	Sidechain
3	C	121	VAL	Mainchain
3	C	124	ALA	Mainchain
3	C	126	PHE	Mainchain
3	C	129	MET	Mainchain
3	C	133	SER	Mainchain
3	C	137	ARG	Mainchain
3	C	138	SER	Mainchain
3	C	142	ASP	Mainchain
3	C	144	ALA	Mainchain
3	C	145	SER	Mainchain
3	C	149	ALA	Mainchain
3	C	152	MET	Mainchain
3	C	153	ILE	Mainchain
3	C	155	ASN	Sidechain
3	C	159	SER	Mainchain
3	C	165	ASP	Mainchain
3	C	168	ARG	Sidechain
3	C	179	LEU	Mainchain
3	C	181	ALA	Mainchain
3	C	185	SER	Mainchain
3	C	188	ALA	Mainchain
3	C	199	GLY	Mainchain
3	C	205	MET	Mainchain
3	C	214	HIS	Sidechain
3	C	221	GLY	Mainchain
3	C	225	PHE	Sidechain
3	C	229	TYR	Mainchain
3	C	230	GLN	Mainchain
3	C	231	MET	Mainchain
3	C	237	GLU	Mainchain
3	C	242	ARG	Sidechain
3	C	246	MET	Mainchain
3	C	248	ASN	Sidechain
3	C	249	TRP	Mainchain
3	C	25	LYS	Mainchain
3	C	255	GLU	Mainchain
3	C	256	GLY	Mainchain

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Mol	Chain	Res	Type	Group
3	C	257	ARG	Sidechain,Mainchain
3	C	259	LEU	Mainchain
3	C	262	ARG	Sidechain
3	C	270	SER	Mainchain
3	C	272	HIS	Sidechain
3	C	274	TYR	Sidechain
3	C	281	GLY	Mainchain
3	C	282	TYR	Sidechain
3	C	285	ASN	Mainchain
3	C	286	ALA	Mainchain
3	C	297	VAL	Mainchain
3	C	298	LEU	Mainchain
3	C	299	LEU	Mainchain
3	C	304	PHE	Sidechain
3	C	307	SER	Mainchain
3	C	31	ASN	Mainchain
3	C	314	SER	Mainchain
3	C	315	SER	Peptide,Mainchain
3	C	317	PHE	Sidechain
3	C	328	ARG	Sidechain
3	C	331	ARG	Sidechain
3	C	334	GLU	Sidechain
3	C	336	ARG	Sidechain
3	C	344	TYR	Sidechain
3	C	345	PRO	Mainchain
3	C	350	LEU	Mainchain
3	C	353	GLN	Mainchain
3	C	358	GLN	Mainchain
3	C	359	PHE	Sidechain
3	C	367	ARG	Mainchain
3	C	368	ILE	Mainchain
3	C	380	GLU	Mainchain
3	C	386	GLU	Sidechain
3	C	397	HIS	Sidechain
3	C	399	ARG	Sidechain
3	C	402	TYR	Sidechain
3	C	405	LEU	Mainchain
3	C	410	HIS	Sidechain
3	C	411	GLN	Mainchain
3	C	415	GLN	Mainchain
3	C	425	ASN	Mainchain
3	C	427	LEU	Mainchain

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Mol	Chain	Res	Type	Group
3	C	429	ASN	Sidechain
3	C	44	ALA	Mainchain
3	C	443	PRO	Mainchain
3	C	448	SER	Mainchain
3	C	45	ASP	Mainchain
3	C	451	LEU	Mainchain
3	C	453	LEU	Mainchain
3	C	457	MET	Mainchain
3	C	458	HIS	Mainchain
3	C	459	LEU	Mainchain
3	C	461	ASN	Sidechain
3	C	471	PRO	Mainchain
3	C	472	LEU	Mainchain
3	C	478	THR	Mainchain
3	C	481	ARG	Sidechain
3	C	482	SER	Mainchain
3	C	487	VAL	Mainchain
3	C	491	THR	Mainchain
3	C	504	THR	Mainchain
3	C	505	THR	Mainchain
3	C	506	GLN	Mainchain
3	C	510	PRO	Mainchain
3	C	511	ILE	Mainchain
3	C	512	SER	Mainchain
3	C	514	ILE	Mainchain
3	C	516	ARG	Sidechain
3	C	525	TYR	Sidechain
3	C	531	CYS	Mainchain
3	C	537	TYR	Sidechain
3	C	552	ASP	Sidechain
3	C	561	PRO	Mainchain
3	C	58	SER	Mainchain
3	C	580	HIS	Sidechain
3	C	581	SER	Mainchain
3	C	582	PRO	Mainchain
3	C	586	PHE	Sidechain,Mainchain
3	C	590	ALA	Mainchain
3	C	591	ASN	Mainchain
3	C	595	GLN	Sidechain
3	C	600	ALA	Mainchain
3	C	612	ALA	Mainchain
3	C	617	HIS	Sidechain

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Mol	Chain	Res	Type	Group
3	C	625	PHE	Sidechain
3	C	635	GLN	Sidechain
3	C	643	ALA	Mainchain
3	C	645	HIS	Sidechain
3	C	647	ARG	Sidechain
3	C	658	TYR	Sidechain,Mainchain
3	C	666	ALA	Mainchain
3	C	67	ALA	Mainchain
3	C	672	SER	Mainchain
3	C	675	MET	Mainchain
3	C	677	TYR	Sidechain
3	C	680	PRO	Mainchain
3	C	681	ASN	Mainchain
3	C	686	ARG	Mainchain
3	C	693	TYR	Sidechain
3	C	703	THR	Mainchain
3	C	708	PHE	Sidechain
3	C	713	ASN	Mainchain
3	C	714	SER	Mainchain
3	C	715	VAL	Mainchain
3	C	724	LEU	Mainchain
3	C	726	ARG	Sidechain,Mainchain
3	C	737	ARG	Sidechain
3	C	739	VAL	Mainchain
3	C	744	PRO	Mainchain
3	C	745	PHE	Sidechain,Mainchain
3	C	746	TYR	Sidechain,Mainchain
3	C	76	GLY	Mainchain
3	C	760	SER	Mainchain
3	C	767	PHE	Sidechain
3	C	768	GLN	Mainchain
3	C	771	PHE	Sidechain
3	C	775	VAL	Mainchain
3	C	776	GLN	Mainchain
3	C	786	ALA	Mainchain
3	C	787	ARG	Sidechain
3	C	790	PRO	Mainchain
3	C	792	GLN	Mainchain
3	C	797	ALA	Peptide
3	C	798	VAL	Peptide,Mainchain
3	C	806	THR	Mainchain
3	C	807	PHE	Sidechain,Mainchain

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Mol	Chain	Res	Type	Group
3	C	825	GLY	Mainchain
3	C	829	THR	Mainchain
3	C	837	TYR	Sidechain
3	C	851	PHE	Sidechain
3	C	853	ARG	Sidechain
3	C	854	ASN	Mainchain
3	C	861	ARG	Sidechain
3	C	868	ARG	Sidechain
3	C	87	ILE	Mainchain
3	C	881	VAL	Mainchain
3	C	883	ARG	Sidechain
3	C	885	LEU	Mainchain
3	C	896	ALA	Mainchain
3	C	900	GLU	Mainchain
3	C	910	LYS	Mainchain
3	C	915	LEU	Mainchain
3	C	926	TYR	Sidechain
3	C	929	PRO	Mainchain
3	C	930	ARG	Mainchain
3	C	935	SER	Mainchain
3	C	938	TYR	Sidechain
3	C	941	TYR	Sidechain
3	C	947	ARG	Sidechain
3	C	951	PRO	Mainchain
3	C	955	SER	Mainchain
3	C	964	VAL	Mainchain
3	C	966	SER	Mainchain
3	C	97	ALA	Mainchain
3	C	975	PHE	Mainchain
3	C	977	VAL	Mainchain
3	C	979	ARG	Sidechain
3	C	983	TYR	Sidechain
3	C	992	ASN	Mainchain
3	C	993	TRP	Mainchain
3	C	995	PRO	Mainchain
3	C	997	ALA	Mainchain
4	D	112	TRP	Mainchain
4	D	115	ALA	Mainchain
4	D	118	VAL	Peptide
4	D	125	TYR	Sidechain
4	D	126	PRO	Mainchain
4	D	128	TYR	Sidechain

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Mol	Chain	Res	Type	Group
4	D	14	TYR	Sidechain
4	D	150	LEU	Mainchain
4	D	157	TYR	Sidechain
4	D	160	GLU	Mainchain
4	D	164	ASP	Sidechain
4	D	167	PRO	Mainchain
4	D	177	TYR	Sidechain
4	D	182	ILE	Mainchain
4	D	183	ALA	Mainchain
4	D	184	HIS	Sidechain
4	D	185	LEU	Mainchain
4	D	190	TYR	Sidechain,Mainchain
4	D	191	ARG	Mainchain
4	D	198	GLN	Sidechain
4	D	2	ALA	Mainchain
4	D	209	ARG	Sidechain
4	D	212	SER	Mainchain
4	D	222	ARG	Sidechain
4	D	227	ARG	Sidechain
4	D	23	LEU	Mainchain
4	D	236	PHE	Sidechain
4	D	237	ALA	Mainchain
4	D	24	ASN	Sidechain
4	D	250	TRP	Mainchain
4	D	252	ASP	Sidechain
4	D	259	PRO	Mainchain
4	D	260	ALA	Mainchain
4	D	262	ALA	Mainchain
4	D	266	TYR	Sidechain
4	D	27	GLN	Mainchain
4	D	276	HIS	Sidechain
4	D	278	ILE	Mainchain
4	D	282	ALA	Mainchain
4	D	285	LEU	Mainchain
4	D	287	SER	Mainchain
4	D	292	ALA	Mainchain
4	D	298	ALA	Mainchain
4	D	299	LEU	Mainchain
4	D	309	SER	Mainchain
4	D	31	GLY	Mainchain
4	D	316	THR	Mainchain
4	D	320	GLN	Sidechain

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Mol	Chain	Res	Type	Group
4	D	327	ASP	Mainchain
4	D	33	TYR	Sidechain
4	D	330	PRO	Mainchain
4	D	331	VAL	Mainchain
4	D	337	ARG	Mainchain
4	D	338	HIS	Sidechain
4	D	349	ALA	Mainchain
4	D	350	ALA	Mainchain
4	D	351	GLN	Sidechain
4	D	358	ASP	Mainchain
4	D	360	THR	Mainchain
4	D	362	TYR	Sidechain
4	D	364	LEU	Mainchain
4	D	369	HIS	Sidechain,Mainchain
4	D	38	THR	Mainchain
4	D	385	PRO	Mainchain
4	D	389	PHE	Mainchain
4	D	39	SER	Mainchain
4	D	390	ASN	Sidechain,Mainchain
4	D	392	ALA	Mainchain
4	D	394	PHE	Sidechain
4	D	399	GLN	Mainchain
4	D	404	VAL	Mainchain
4	D	407	ALA	Mainchain
4	D	41	PHE	Sidechain
4	D	42	SER	Mainchain
4	D	47	SER	Mainchain
4	D	53	VAL	Mainchain
4	D	56	ALA	Mainchain
4	D	58	TYR	Sidechain
4	D	6	PHE	Sidechain
4	D	68	VAL	Mainchain
4	D	76	LEU	Mainchain
4	D	87	HIS	Sidechain
4	D	89	GLY	Mainchain
4	D	91	THR	Mainchain
4	E	1	MET	Mainchain
4	E	104	PRO	Mainchain
4	E	11	TYR	Sidechain
4	E	110	PRO	Mainchain
4	E	111	VAL	Mainchain
4	E	114	VAL	Mainchain

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Mol	Chain	Res	Type	Group
4	E	115	ALA	Mainchain
4	E	125	TYR	Sidechain
4	E	126	PRO	Mainchain
4	E	139	ASN	Mainchain
4	E	14	TYR	Sidechain
4	E	140	GLN	Sidechain
4	E	143	HIS	Sidechain
4	E	144	ILE	Mainchain
4	E	145	MET	Mainchain
4	E	150	LEU	Mainchain
4	E	154	GLY	Mainchain
4	E	157	TYR	Sidechain,Mainchain
4	E	159	LEU	Mainchain
4	E	162	PRO	Mainchain
4	E	166	MET	Mainchain
4	E	167	PRO	Mainchain
4	E	170	THR	Mainchain
4	E	171	THR	Mainchain
4	E	173	ALA	Mainchain
4	E	177	TYR	Sidechain
4	E	178	THR	Mainchain
4	E	183	ALA	Mainchain
4	E	186	ALA	Mainchain
4	E	187	GLN	Mainchain
4	E	191	ARG	Sidechain
4	E	192	PHE	Sidechain
4	E	195	GLN	Mainchain
4	E	200	PRO	Mainchain
4	E	205	VAL	Mainchain
4	E	210	TRP	Mainchain
4	E	212	SER	Mainchain
4	E	215	TRP	Mainchain
4	E	22	ASP	Mainchain
4	E	229	CYS	Mainchain
4	E	23	LEU	Mainchain
4	E	230	ASN	Mainchain
4	E	232	PHE	Sidechain
4	E	233	TYR	Sidechain
4	E	235	GLU	Sidechain
4	E	236	PHE	Mainchain
4	E	24	ASN	Mainchain
4	E	248	LEU	Mainchain

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Mol	Chain	Res	Type	Group
4	E	25	ASP	Mainchain
4	E	250	TRP	Mainchain
4	E	261	ALA	Mainchain
4	E	266	TYR	Sidechain
4	E	268	ARG	Mainchain
4	E	270	ILE	Mainchain
4	E	280	GLU	Mainchain
4	E	295	GLY	Mainchain
4	E	31	GLY	Mainchain
4	E	311	GLY	Mainchain
4	E	319	GLY	Mainchain
4	E	328	TYR	Sidechain
4	E	33	TYR	Sidechain
4	E	338	HIS	Sidechain
4	E	339	LEU	Mainchain
4	E	34	ALA	Mainchain
4	E	344	ASP	Mainchain
4	E	345	GLY	Mainchain
4	E	35	ARG	Sidechain
4	E	351	GLN	Mainchain
4	E	354	GLN	Mainchain
4	E	356	ASN	Mainchain
4	E	359	TYR	Sidechain
4	E	362	TYR	Sidechain
4	E	367	GLU	Mainchain
4	E	368	ARG	Mainchain
4	E	369	HIS	Mainchain
4	E	383	ARG	Sidechain
4	E	394	PHE	Sidechain
4	E	399	GLN	Mainchain
4	E	40	ARG	Mainchain
4	E	400	THR	Mainchain
4	E	402	ALA	Mainchain
4	E	404	VAL	Mainchain
4	E	43	HIS	Sidechain
4	E	44	LEU	Mainchain
4	E	5	GLN	Sidechain
4	E	57	ARG	Sidechain
4	E	58	TYR	Sidechain
4	E	6	PHE	Sidechain
4	E	63	SER	Mainchain
4	E	64	ARG	Mainchain

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Mol	Chain	Res	Type	Group
4	E	66	ILE	Mainchain
4	E	75	HIS	Sidechain
4	E	80	ALA	Mainchain
4	E	86	SER	Peptide
4	E	88	GLN	Peptide
4	E	89	GLY	Mainchain
4	E	94	ASP	Sidechain
5	F	1	MET	Peptide
5	F	101	TYR	Sidechain
5	F	102	HIS	Sidechain
5	F	107	LYS	Mainchain
5	F	112	ALA	Mainchain
5	F	113	PRO	Mainchain
5	F	118	THR	Mainchain
5	F	122	SER	Mainchain
5	F	127	GLU	Mainchain
5	F	130	PHE	Sidechain
5	F	138	SER	Mainchain
5	F	141	THR	Mainchain
5	F	144	VAL	Mainchain
5	F	148	CYS	Mainchain
5	F	154	GLY	Mainchain
5	F	157	HIS	Sidechain
5	F	164	ASP	Mainchain
5	F	165	PHE	Sidechain,Mainchain
5	F	167	LEU	Peptide
5	F	168	PRO	Mainchain
5	F	169	ASN	Sidechain
5	F	175	PRO	Mainchain
5	F	177	ASP	Mainchain
5	F	181	PRO	Mainchain
5	F	186	LEU	Mainchain
5	F	2	PRO	Mainchain
5	F	202	ALA	Mainchain
5	F	21	ARG	Mainchain
5	F	211	ALA	Mainchain
5	F	214	ARG	Sidechain
5	F	215	ALA	Mainchain
5	F	216	ILE	Mainchain
5	F	23	THR	Mainchain
5	F	234	ARG	Sidechain
5	F	238	TYR	Mainchain

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Mol	Chain	Res	Type	Group
5	F	241	ALA	Mainchain
5	F	245	LEU	Mainchain
5	F	247	PHE	Mainchain
5	F	25	TYR	Sidechain
5	F	26	THR	Mainchain
5	F	260	PHE	Sidechain
5	F	27	ARG	Sidechain
5	F	271	HIS	Mainchain
5	F	273	GLU	Mainchain
5	F	32	THR	Mainchain
5	F	34	ASN	Mainchain
5	F	35	PHE	Sidechain,Mainchain
5	F	36	ASP	Mainchain
5	F	39	GLU	Sidechain
5	F	4	HIS	Sidechain
5	F	40	TYR	Sidechain
5	F	45	ARG	Sidechain
5	F	46	TYR	Sidechain
5	F	47	THR	Mainchain
5	F	49	CYS	Mainchain
5	F	51	PHE	Sidechain
5	F	58	PRO	Mainchain
5	F	63	LYS	Mainchain
5	F	66	GLN	Mainchain
5	F	69	HIS	Sidechain
5	F	74	GLN	Sidechain
5	F	75	PRO	Mainchain
5	F	78	ALA	Mainchain
5	F	80	ARG	Sidechain
5	F	81	SER	Mainchain
5	F	90	GLN	Sidechain
5	G	1	MET	Peptide
5	G	10	ALA	Mainchain
5	G	101	TYR	Sidechain
5	G	102	HIS	Sidechain
5	G	107	LYS	Mainchain
5	G	112	ALA	Mainchain
5	G	113	PRO	Mainchain
5	G	118	THR	Mainchain
5	G	122	SER	Mainchain
5	G	127	GLU	Mainchain
5	G	130	PHE	Sidechain

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Mol	Chain	Res	Type	Group
5	G	138	SER	Mainchain
5	G	144	VAL	Mainchain
5	G	148	CYS	Mainchain
5	G	154	GLY	Mainchain
5	G	157	HIS	Sidechain
5	G	164	ASP	Mainchain
5	G	165	PHE	Sidechain,Mainchain
5	G	167	LEU	Peptide
5	G	168	PRO	Mainchain
5	G	169	ASN	Sidechain
5	G	175	PRO	Mainchain
5	G	177	ASP	Mainchain
5	G	181	PRO	Mainchain
5	G	186	LEU	Mainchain
5	G	2	PRO	Mainchain
5	G	202	ALA	Mainchain
5	G	21	ARG	Mainchain
5	G	211	ALA	Mainchain
5	G	214	ARG	Sidechain
5	G	216	ILE	Mainchain
5	G	23	THR	Mainchain
5	G	234	ARG	Sidechain
5	G	238	TYR	Mainchain
5	G	241	ALA	Mainchain
5	G	245	LEU	Mainchain
5	G	247	PHE	Mainchain
5	G	25	TYR	Sidechain
5	G	26	THR	Mainchain
5	G	260	PHE	Sidechain
5	G	271	HIS	Mainchain
5	G	273	GLU	Mainchain
5	G	32	THR	Mainchain
5	G	34	ASN	Mainchain
5	G	35	PHE	Sidechain
5	G	36	ASP	Mainchain
5	G	39	GLU	Sidechain
5	G	4	HIS	Sidechain
5	G	40	TYR	Sidechain
5	G	45	ARG	Sidechain,Mainchain
5	G	46	TYR	Sidechain
5	G	47	THR	Mainchain
5	G	49	CYS	Mainchain

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Mol	Chain	Res	Type	Group
5	G	51	PHE	Sidechain
5	G	52	CYS	Mainchain
5	G	58	PRO	Mainchain
5	G	63	LYS	Mainchain
5	G	66	GLN	Mainchain
5	G	69	HIS	Sidechain
5	G	74	GLN	Sidechain
5	G	75	PRO	Mainchain
5	G	78	ALA	Mainchain
5	G	80	ARG	Sidechain
5	G	81	SER	Mainchain
5	G	90	GLN	Sidechain
5	H	1	MET	Peptide
5	H	10	ALA	Mainchain
5	H	101	TYR	Sidechain
5	H	102	HIS	Sidechain
5	H	107	LYS	Mainchain
5	H	112	ALA	Mainchain
5	H	113	PRO	Mainchain
5	H	118	THR	Mainchain
5	H	122	SER	Mainchain
5	H	127	GLU	Mainchain
5	H	130	PHE	Sidechain
5	H	138	SER	Mainchain
5	H	144	VAL	Mainchain
5	H	148	CYS	Mainchain
5	H	154	GLY	Mainchain
5	H	157	HIS	Sidechain
5	H	164	ASP	Mainchain
5	H	165	PHE	Sidechain,Mainchain
5	H	167	LEU	Peptide
5	H	168	PRO	Mainchain
5	H	169	ASN	Sidechain
5	H	175	PRO	Mainchain
5	H	177	ASP	Mainchain
5	H	181	PRO	Mainchain
5	H	186	LEU	Mainchain
5	H	2	PRO	Mainchain
5	H	202	ALA	Mainchain
5	H	21	ARG	Mainchain
5	H	211	ALA	Mainchain
5	H	214	ARG	Sidechain

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Mol	Chain	Res	Type	Group
5	H	215	ALA	Mainchain
5	H	216	ILE	Mainchain
5	H	23	THR	Mainchain
5	H	234	ARG	Sidechain
5	H	238	TYR	Mainchain
5	H	241	ALA	Mainchain
5	H	245	LEU	Mainchain
5	H	247	PHE	Mainchain
5	H	25	TYR	Sidechain
5	H	26	THR	Mainchain
5	H	260	PHE	Sidechain
5	H	27	ARG	Sidechain
5	H	271	HIS	Mainchain
5	H	273	GLU	Mainchain
5	H	32	THR	Mainchain
5	H	34	ASN	Mainchain
5	H	35	PHE	Sidechain,Mainchain
5	H	36	ASP	Mainchain
5	H	39	GLU	Sidechain
5	H	4	HIS	Sidechain
5	H	40	TYR	Sidechain
5	H	45	ARG	Sidechain
5	H	46	TYR	Sidechain
5	H	47	THR	Mainchain
5	H	49	CYS	Mainchain
5	H	51	PHE	Sidechain
5	H	58	PRO	Mainchain
5	H	63	LYS	Mainchain
5	H	66	GLN	Mainchain
5	H	69	HIS	Sidechain
5	H	74	GLN	Sidechain
5	H	75	PRO	Mainchain
5	H	78	ALA	Mainchain
5	H	80	ARG	Sidechain
5	H	81	SER	Mainchain
5	H	90	GLN	Sidechain
6	I	11	TYR	Sidechain
6	I	111	PHE	Sidechain
6	I	118	TYR	Sidechain
6	I	119	VAL	Mainchain
6	I	13	ILE	Mainchain
6	I	143	MET	Mainchain

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Mol	Chain	Res	Type	Group
6	I	147	ARG	Sidechain
6	I	15	GLY	Mainchain
6	I	150	ALA	Mainchain
6	I	152	ARG	Sidechain
6	I	154	ARG	Sidechain,Mainchain
6	I	157	ALA	Mainchain
6	I	160	GLN	Sidechain
6	I	164	ASP	Sidechain
6	I	169	MET	Peptide,Mainchain
6	I	177	GLY	Mainchain
6	I	182	ASN	Sidechain
6	I	183	TRP	Mainchain
6	I	185	SER	Mainchain
6	I	187	LEU	Mainchain
6	I	189	PHE	Sidechain
6	I	191	LYS	Mainchain
6	I	198	ASN	Mainchain
6	I	20	PHE	Mainchain
6	I	200	CYS	Mainchain
6	I	203	TYR	Sidechain
6	I	204	PRO	Mainchain
6	I	206	GLU	Sidechain,Mainchain
6	I	208	TYR	Sidechain
6	I	211	ALA	Mainchain
6	I	212	ILE	Mainchain
6	I	215	TYR	Sidechain
6	I	223	PRO	Peptide
6	I	224	ASP	Mainchain
6	I	230	ALA	Mainchain
6	I	235	LEU	Mainchain
6	I	242	PHE	Sidechain
6	I	244	ALA	Mainchain
6	I	248	GLU	Sidechain
6	I	256	SER	Mainchain
6	I	26	MET	Mainchain
6	I	261	GLN	Sidechain
6	I	268	GLY	Mainchain
6	I	269	LYS	Mainchain
6	I	27	THR	Mainchain
6	I	28	SER	Mainchain
6	I	285	PHE	Sidechain
6	I	295	ARG	Sidechain

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Mol	Chain	Res	Type	Group
6	I	298	PHE	Sidechain
6	I	30	ALA	Mainchain
6	I	301	PRO	Mainchain
6	I	304	ALA	Mainchain
6	I	310	PHE	Sidechain
6	I	312	ASN	Mainchain
6	I	32	PRO	Mainchain
6	I	321	THR	Mainchain
6	I	322	TYR	Sidechain
6	I	327	TYR	Sidechain
6	I	333	PRO	Mainchain
6	I	340	ASP	Mainchain
6	I	342	ASN	Mainchain
6	I	345	ILE	Mainchain
6	I	349	LEU	Mainchain
6	I	350	THR	Mainchain
6	I	360	TYR	Sidechain
6	I	362	THR	Mainchain
6	I	364	PRO	Mainchain
6	I	366	LEU	Mainchain
6	I	369	SER	Mainchain
6	I	370	VAL	Mainchain
6	I	377	GLN	Mainchain
6	I	381	PRO	Mainchain
6	I	385	VAL	Mainchain
6	I	393	ALA	Mainchain
6	I	398	SER	Mainchain
6	I	401	GLY	Mainchain
6	I	411	VAL	Mainchain
6	I	412	ARG	Sidechain
6	I	416	ARG	Peptide,Mainchain
6	I	417	PHE	Mainchain
6	I	418	ASN	Sidechain
6	I	422	LEU	Mainchain
6	I	423	GLN	Mainchain
6	I	426	PHE	Sidechain
6	I	428	ARG	Mainchain
6	I	434	ILE	Mainchain
6	I	435	PRO	Mainchain
6	I	436	TYR	Sidechain
6	I	438	TYR	Sidechain,Mainchain
6	I	44	THR	Mainchain

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Mol	Chain	Res	Type	Group
6	I	445	ILE	Mainchain
6	I	457	PRO	Mainchain
6	I	458	THR	Mainchain
6	I	46	LYS	Mainchain
6	I	462	GLY	Mainchain
6	I	472	ARG	Sidechain
6	I	484	ILE	Mainchain
6	I	491	ALA	Mainchain
6	I	492	ASN	Mainchain
6	I	504	ASN	Mainchain
6	I	506	ALA	Mainchain
6	I	509	LEU	Mainchain
6	I	51	VAL	Mainchain
6	I	513	HIS	Sidechain
6	I	516	LYS	Mainchain
6	I	522	GLY	Mainchain
6	I	526	PRO	Mainchain
6	I	529	SER	Mainchain
6	I	533	ASP	Sidechain
6	I	537	SER	Mainchain
6	I	543	LEU	Mainchain
6	I	547	HIS	Sidechain
6	I	553	GLY	Mainchain
6	I	562	TYR	Sidechain
6	I	567	ARG	Mainchain
6	I	576	PHE	Sidechain
6	I	58	ILE	Mainchain
6	I	585	GLN	Sidechain
6	I	59	ASP	Mainchain
6	I	590	VAL	Mainchain
6	I	596	MET	Mainchain
6	I	597	LEU	Mainchain
6	I	609	ARG	Sidechain
6	I	610	THR	Mainchain
6	I	611	GLY	Mainchain
6	I	613	LEU	Mainchain
6	I	615	LYS	Mainchain
6	I	619	ASP	Sidechain,Mainchain
6	I	62	ALA	Mainchain
6	I	622	GLU	Mainchain
6	I	623	LYS	Mainchain
6	I	625	ARG	Sidechain

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Mol	Chain	Res	Type	Group
6	I	627	ARG	Sidechain,Mainchain
6	I	634	LYS	Mainchain
6	I	64	VAL	Mainchain
6	I	641	ILE	Mainchain
6	I	67	ARG	Sidechain
6	I	68	PHE	Sidechain
6	I	71	TYR	Sidechain
6	I	73	PHE	Sidechain
6	I	75	ASN	Mainchain
6	I	76	GLU	Mainchain
6	I	79	ARG	Sidechain
6	I	93	GLN	Sidechain,Mainchain
6	I	94	PRO	Mainchain
6	I	96	PHE	Mainchain
6	I	97	GLN	Mainchain
6	J	11	TYR	Sidechain
6	J	111	PHE	Sidechain
6	J	118	TYR	Sidechain
6	J	119	VAL	Mainchain
6	J	126	ALA	Mainchain
6	J	141	GLN	Mainchain
6	J	143	MET	Mainchain
6	J	15	GLY	Mainchain
6	J	150	ALA	Mainchain
6	J	152	ARG	Sidechain
6	J	154	ARG	Mainchain
6	J	157	ALA	Mainchain
6	J	160	GLN	Sidechain
6	J	164	ASP	Sidechain
6	J	169	MET	Peptide,Mainchain
6	J	182	ASN	Sidechain
6	J	183	TRP	Mainchain
6	J	185	SER	Mainchain
6	J	189	PHE	Sidechain
6	J	191	LYS	Mainchain
6	J	20	PHE	Mainchain
6	J	200	CYS	Mainchain
6	J	203	TYR	Sidechain
6	J	204	PRO	Mainchain
6	J	206	GLU	Mainchain
6	J	208	TYR	Sidechain
6	J	211	ALA	Mainchain

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Mol	Chain	Res	Type	Group
6	J	212	ILE	Mainchain
6	J	215	TYR	Sidechain
6	J	223	PRO	Peptide
6	J	224	ASP	Mainchain
6	J	230	ALA	Mainchain
6	J	235	LEU	Mainchain
6	J	242	PHE	Sidechain
6	J	244	ALA	Mainchain
6	J	248	GLU	Sidechain
6	J	256	SER	Mainchain
6	J	26	MET	Mainchain
6	J	261	GLN	Sidechain
6	J	268	GLY	Mainchain
6	J	269	LYS	Mainchain
6	J	27	THR	Mainchain
6	J	28	SER	Mainchain
6	J	285	PHE	Sidechain
6	J	295	ARG	Sidechain
6	J	298	PHE	Sidechain
6	J	301	PRO	Mainchain
6	J	304	ALA	Mainchain
6	J	310	PHE	Sidechain
6	J	312	ASN	Mainchain
6	J	32	PRO	Mainchain
6	J	322	TYR	Sidechain
6	J	327	TYR	Sidechain
6	J	330	GLN	Mainchain
6	J	333	PRO	Mainchain
6	J	340	ASP	Mainchain
6	J	342	ASN	Mainchain
6	J	345	ILE	Mainchain
6	J	349	LEU	Mainchain
6	J	350	THR	Mainchain
6	J	360	TYR	Sidechain
6	J	362	THR	Mainchain
6	J	364	PRO	Mainchain
6	J	369	SER	Mainchain
6	J	377	GLN	Mainchain
6	J	381	PRO	Mainchain
6	J	385	VAL	Mainchain
6	J	393	ALA	Mainchain
6	J	398	SER	Mainchain

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Mol	Chain	Res	Type	Group
6	J	401	GLY	Mainchain
6	J	412	ARG	Sidechain
6	J	414	GLN	Sidechain
6	J	416	ARG	Peptide,Mainchain
6	J	417	PHE	Mainchain
6	J	418	ASN	Sidechain
6	J	423	GLN	Mainchain
6	J	426	PHE	Sidechain
6	J	428	ARG	Mainchain
6	J	434	ILE	Mainchain
6	J	435	PRO	Mainchain
6	J	436	TYR	Sidechain
6	J	438	TYR	Sidechain,Mainchain
6	J	44	THR	Mainchain
6	J	445	ILE	Mainchain
6	J	457	PRO	Mainchain
6	J	458	THR	Mainchain
6	J	46	LYS	Mainchain
6	J	462	GLY	Mainchain
6	J	472	ARG	Sidechain
6	J	476	TYR	Sidechain
6	J	484	ILE	Mainchain
6	J	491	ALA	Mainchain
6	J	492	ASN	Mainchain
6	J	506	ALA	Mainchain
6	J	509	LEU	Mainchain
6	J	51	VAL	Mainchain
6	J	513	HIS	Sidechain
6	J	516	LYS	Mainchain
6	J	522	GLY	Mainchain
6	J	526	PRO	Mainchain
6	J	529	SER	Mainchain
6	J	533	ASP	Sidechain
6	J	537	SER	Mainchain
6	J	543	LEU	Mainchain
6	J	547	HIS	Sidechain
6	J	562	TYR	Sidechain
6	J	567	ARG	Mainchain
6	J	576	PHE	Sidechain
6	J	58	ILE	Mainchain
6	J	585	GLN	Sidechain
6	J	59	ASP	Mainchain

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Mol	Chain	Res	Type	Group
6	J	590	VAL	Mainchain
6	J	596	MET	Mainchain
6	J	597	LEU	Mainchain
6	J	609	ARG	Sidechain
6	J	610	THR	Mainchain
6	J	611	GLY	Mainchain
6	J	613	LEU	Mainchain
6	J	615	LYS	Mainchain
6	J	619	ASP	Mainchain
6	J	62	ALA	Mainchain
6	J	622	GLU	Mainchain
6	J	623	LYS	Mainchain
6	J	627	ARG	Sidechain,Mainchain
6	J	634	LYS	Mainchain
6	J	64	VAL	Mainchain
6	J	641	ILE	Mainchain
6	J	67	ARG	Sidechain
6	J	68	PHE	Sidechain
6	J	71	TYR	Sidechain
6	J	73	PHE	Sidechain
6	J	75	ASN	Mainchain
6	J	76	GLU	Mainchain
6	J	79	ARG	Sidechain
6	J	93	GLN	Sidechain,Mainchain
6	J	94	PRO	Mainchain
6	J	97	GLN	Mainchain
6	K	11	TYR	Sidechain
6	K	111	PHE	Sidechain
6	K	117	GLY	Mainchain
6	K	118	TYR	Sidechain
6	K	119	VAL	Mainchain
6	K	126	ALA	Mainchain
6	K	13	ILE	Mainchain
6	K	143	MET	Mainchain
6	K	15	GLY	Mainchain
6	K	150	ALA	Mainchain
6	K	152	ARG	Sidechain
6	K	154	ARG	Sidechain,Mainchain
6	K	157	ALA	Mainchain
6	K	160	GLN	Sidechain
6	K	164	ASP	Sidechain
6	K	169	MET	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
6	K	177	GLY	Mainchain
6	K	182	ASN	Sidechain
6	K	183	TRP	Mainchain
6	K	185	SER	Mainchain
6	K	189	PHE	Sidechain
6	K	191	LYS	Mainchain
6	K	20	PHE	Mainchain
6	K	200	CYS	Mainchain
6	K	203	TYR	Sidechain
6	K	204	PRO	Mainchain
6	K	206	GLU	Sidechain,Mainchain
6	K	208	TYR	Sidechain
6	K	211	ALA	Mainchain
6	K	212	ILE	Mainchain
6	K	215	TYR	Sidechain
6	K	223	PRO	Peptide
6	K	224	ASP	Mainchain
6	K	230	ALA	Mainchain
6	K	235	LEU	Mainchain
6	K	242	PHE	Sidechain
6	K	244	ALA	Mainchain
6	K	248	GLU	Sidechain
6	K	256	SER	Mainchain
6	K	26	MET	Mainchain
6	K	261	GLN	Sidechain
6	K	268	GLY	Mainchain
6	K	269	LYS	Mainchain
6	K	27	THR	Mainchain
6	K	28	SER	Mainchain
6	K	285	PHE	Sidechain
6	K	295	ARG	Sidechain
6	K	298	PHE	Sidechain
6	K	30	ALA	Mainchain
6	K	301	PRO	Mainchain
6	K	304	ALA	Mainchain
6	K	310	PHE	Sidechain
6	K	312	ASN	Mainchain
6	K	32	PRO	Mainchain
6	K	321	THR	Mainchain
6	K	322	TYR	Sidechain
6	K	327	TYR	Sidechain
6	K	333	PRO	Mainchain

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Mol	Chain	Res	Type	Group
6	K	340	ASP	Mainchain
6	K	342	ASN	Mainchain
6	K	345	ILE	Mainchain
6	K	349	LEU	Mainchain
6	K	350	THR	Mainchain
6	K	360	TYR	Sidechain
6	K	362	THR	Mainchain
6	K	364	PRO	Mainchain
6	K	366	LEU	Mainchain
6	K	369	SER	Mainchain
6	K	370	VAL	Mainchain
6	K	377	GLN	Mainchain
6	K	381	PRO	Mainchain
6	K	385	VAL	Mainchain
6	K	393	ALA	Mainchain
6	K	398	SER	Mainchain
6	K	401	GLY	Mainchain
6	K	411	VAL	Mainchain
6	K	412	ARG	Sidechain
6	K	414	GLN	Sidechain
6	K	416	ARG	Peptide,Mainchain
6	K	417	PHE	Mainchain
6	K	418	ASN	Sidechain
6	K	422	LEU	Mainchain
6	K	423	GLN	Mainchain
6	K	426	PHE	Sidechain
6	K	428	ARG	Mainchain
6	K	434	ILE	Mainchain
6	K	435	PRO	Mainchain
6	K	436	TYR	Sidechain
6	K	438	TYR	Sidechain,Mainchain
6	K	44	THR	Mainchain
6	K	445	ILE	Mainchain
6	K	457	PRO	Mainchain
6	K	458	THR	Mainchain
6	K	46	LYS	Mainchain
6	K	462	GLY	Mainchain
6	K	472	ARG	Sidechain
6	K	476	TYR	Sidechain
6	K	484	ILE	Mainchain
6	K	491	ALA	Mainchain
6	K	492	ASN	Mainchain

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Mol	Chain	Res	Type	Group
6	K	506	ALA	Mainchain
6	K	509	LEU	Mainchain
6	K	51	VAL	Mainchain
6	K	513	HIS	Sidechain
6	K	516	LYS	Mainchain
6	K	522	GLY	Mainchain
6	K	526	PRO	Mainchain
6	K	529	SER	Mainchain
6	K	533	ASP	Sidechain
6	K	537	SER	Mainchain
6	K	547	HIS	Sidechain
6	K	562	TYR	Sidechain
6	K	567	ARG	Mainchain
6	K	576	PHE	Sidechain
6	K	58	ILE	Mainchain
6	K	59	ASP	Mainchain
6	K	590	VAL	Mainchain
6	K	596	MET	Mainchain
6	K	597	LEU	Mainchain
6	K	609	ARG	Sidechain
6	K	610	THR	Mainchain
6	K	613	LEU	Mainchain
6	K	615	LYS	Mainchain
6	K	619	ASP	Sidechain,Mainchain
6	K	62	ALA	Mainchain
6	K	622	GLU	Mainchain
6	K	623	LYS	Mainchain
6	K	625	ARG	Sidechain
6	K	627	ARG	Sidechain,Mainchain
6	K	634	LYS	Mainchain
6	K	641	ILE	Mainchain
6	K	67	ARG	Sidechain
6	K	68	PHE	Sidechain
6	K	71	TYR	Sidechain
6	K	73	PHE	Sidechain
6	K	75	ASN	Mainchain
6	K	76	GLU	Mainchain
6	K	79	ARG	Sidechain
6	K	93	GLN	Sidechain,Mainchain
6	K	94	PRO	Mainchain
6	K	97	GLN	Mainchain
5	L	1	MET	Peptide

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Mol	Chain	Res	Type	Group
5	L	101	TYR	Sidechain
5	L	102	HIS	Sidechain
5	L	107	LYS	Mainchain
5	L	112	ALA	Mainchain
5	L	113	PRO	Mainchain
5	L	118	THR	Mainchain
5	L	122	SER	Mainchain
5	L	127	GLU	Mainchain
5	L	130	PHE	Sidechain
5	L	138	SER	Mainchain
5	L	144	VAL	Mainchain
5	L	148	CYS	Mainchain
5	L	154	GLY	Mainchain
5	L	157	HIS	Sidechain
5	L	164	ASP	Mainchain
5	L	165	PHE	Sidechain,Mainchain
5	L	167	LEU	Peptide
5	L	168	PRO	Mainchain
5	L	169	ASN	Sidechain
5	L	177	ASP	Mainchain
5	L	181	PRO	Mainchain
5	L	186	LEU	Mainchain
5	L	2	PRO	Mainchain
5	L	202	ALA	Mainchain
5	L	21	ARG	Mainchain
5	L	211	ALA	Mainchain
5	L	214	ARG	Sidechain,Mainchain
5	L	216	ILE	Mainchain
5	L	23	THR	Mainchain
5	L	234	ARG	Sidechain
5	L	238	TYR	Mainchain
5	L	239	GLY	Mainchain
5	L	241	ALA	Mainchain
5	L	245	LEU	Mainchain
5	L	247	PHE	Mainchain
5	L	25	TYR	Sidechain
5	L	26	THR	Mainchain
5	L	260	PHE	Sidechain
5	L	271	HIS	Mainchain
5	L	273	GLU	Mainchain
5	L	32	THR	Mainchain
5	L	34	ASN	Mainchain

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Mol	Chain	Res	Type	Group
5	L	35	PHE	Sidechain
5	L	36	ASP	Mainchain
5	L	39	GLU	Sidechain
5	L	4	HIS	Sidechain
5	L	40	TYR	Sidechain
5	L	45	ARG	Sidechain
5	L	46	TYR	Sidechain
5	L	47	THR	Mainchain
5	L	49	CYS	Mainchain
5	L	51	PHE	Sidechain
5	L	52	CYS	Mainchain
5	L	58	PRO	Mainchain
5	L	63	LYS	Mainchain
5	L	66	GLN	Mainchain
5	L	69	HIS	Sidechain
5	L	74	GLN	Sidechain
5	L	75	PRO	Mainchain
5	L	78	ALA	Mainchain
5	L	80	ARG	Sidechain
5	L	81	SER	Mainchain
5	L	90	GLN	Sidechain
5	M	1	MET	Peptide
5	M	101	TYR	Sidechain
5	M	102	HIS	Sidechain
5	M	107	LYS	Mainchain
5	M	112	ALA	Mainchain
5	M	113	PRO	Mainchain
5	M	118	THR	Mainchain
5	M	122	SER	Mainchain
5	M	127	GLU	Mainchain
5	M	130	PHE	Sidechain
5	M	138	SER	Mainchain
5	M	144	VAL	Mainchain
5	M	148	CYS	Mainchain
5	M	154	GLY	Mainchain
5	M	157	HIS	Sidechain
5	M	164	ASP	Mainchain
5	M	165	PHE	Sidechain,Mainchain
5	M	167	LEU	Peptide
5	M	168	PRO	Mainchain
5	M	169	ASN	Sidechain
5	M	175	PRO	Mainchain

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Mol	Chain	Res	Type	Group
5	M	177	ASP	Mainchain
5	M	181	PRO	Mainchain
5	M	186	LEU	Mainchain
5	M	2	PRO	Mainchain
5	M	202	ALA	Mainchain
5	M	21	ARG	Mainchain
5	M	211	ALA	Mainchain
5	M	214	ARG	Sidechain,Mainchain
5	M	216	ILE	Mainchain
5	M	23	THR	Mainchain
5	M	234	ARG	Sidechain
5	M	238	TYR	Mainchain
5	M	241	ALA	Mainchain
5	M	245	LEU	Mainchain
5	M	247	PHE	Mainchain
5	M	25	TYR	Sidechain
5	M	26	THR	Mainchain
5	M	260	PHE	Sidechain
5	M	27	ARG	Sidechain
5	M	271	HIS	Mainchain
5	M	273	GLU	Mainchain
5	M	32	THR	Mainchain
5	M	34	ASN	Mainchain
5	M	35	PHE	Sidechain,Mainchain
5	M	36	ASP	Mainchain
5	M	39	GLU	Sidechain
5	M	4	HIS	Sidechain
5	M	40	TYR	Sidechain
5	M	45	ARG	Sidechain,Mainchain
5	M	46	TYR	Sidechain
5	M	47	THR	Mainchain
5	M	49	CYS	Mainchain
5	M	51	PHE	Sidechain
5	M	52	CYS	Mainchain
5	M	58	PRO	Mainchain
5	M	63	LYS	Mainchain
5	M	66	GLN	Mainchain
5	M	69	HIS	Sidechain
5	M	74	GLN	Sidechain
5	M	75	PRO	Mainchain
5	M	78	ALA	Mainchain
5	M	80	ARG	Sidechain

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Mol	Chain	Res	Type	Group
5	M	81	SER	Mainchain
5	M	90	GLN	Sidechain
5	N	1	MET	Peptide
5	N	101	TYR	Sidechain
5	N	102	HIS	Sidechain
5	N	107	LYS	Mainchain
5	N	112	ALA	Mainchain
5	N	113	PRO	Mainchain
5	N	118	THR	Mainchain
5	N	122	SER	Mainchain
5	N	127	GLU	Mainchain
5	N	130	PHE	Sidechain
5	N	138	SER	Mainchain
5	N	144	VAL	Mainchain
5	N	148	CYS	Mainchain
5	N	154	GLY	Mainchain
5	N	157	HIS	Sidechain
5	N	164	ASP	Mainchain
5	N	165	PHE	Sidechain,Mainchain
5	N	167	LEU	Peptide
5	N	168	PRO	Mainchain
5	N	169	ASN	Sidechain
5	N	177	ASP	Mainchain
5	N	181	PRO	Mainchain
5	N	186	LEU	Mainchain
5	N	2	PRO	Mainchain
5	N	202	ALA	Mainchain
5	N	21	ARG	Mainchain
5	N	211	ALA	Mainchain
5	N	214	ARG	Sidechain,Mainchain
5	N	215	ALA	Mainchain
5	N	216	ILE	Mainchain
5	N	23	THR	Mainchain
5	N	234	ARG	Sidechain
5	N	238	TYR	Mainchain
5	N	241	ALA	Mainchain
5	N	245	LEU	Mainchain
5	N	247	PHE	Mainchain
5	N	25	TYR	Sidechain
5	N	26	THR	Mainchain
5	N	260	PHE	Sidechain
5	N	271	HIS	Mainchain

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Mol	Chain	Res	Type	Group
5	N	273	GLU	Mainchain
5	N	32	THR	Mainchain
5	N	34	ASN	Mainchain
5	N	35	PHE	Sidechain,Mainchain
5	N	36	ASP	Mainchain
5	N	39	GLU	Sidechain
5	N	4	HIS	Sidechain
5	N	40	TYR	Sidechain
5	N	45	ARG	Sidechain,Mainchain
5	N	46	TYR	Sidechain
5	N	47	THR	Mainchain
5	N	49	CYS	Mainchain
5	N	51	PHE	Sidechain
5	N	58	PRO	Mainchain
5	N	63	LYS	Mainchain
5	N	66	GLN	Mainchain
5	N	69	HIS	Sidechain
5	N	74	GLN	Sidechain
5	N	75	PRO	Mainchain
5	N	78	ALA	Mainchain
5	N	80	ARG	Sidechain
5	N	81	SER	Mainchain
5	N	90	GLN	Sidechain
6	O	11	TYR	Sidechain
6	O	111	PHE	Sidechain
6	O	117	GLY	Mainchain
6	O	119	VAL	Mainchain
6	O	126	ALA	Mainchain
6	O	13	ILE	Mainchain
6	O	143	MET	Mainchain
6	O	15	GLY	Mainchain
6	O	150	ALA	Mainchain
6	O	152	ARG	Sidechain
6	O	154	ARG	Sidechain,Mainchain
6	O	157	ALA	Mainchain
6	O	160	GLN	Sidechain
6	O	164	ASP	Sidechain
6	O	169	MET	Peptide,Mainchain
6	O	177	GLY	Mainchain
6	O	182	ASN	Sidechain
6	O	183	TRP	Mainchain
6	O	185	SER	Mainchain

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Mol	Chain	Res	Type	Group
6	O	189	PHE	Sidechain
6	O	191	LYS	Mainchain
6	O	20	PHE	Mainchain
6	O	200	CYS	Mainchain
6	O	203	TYR	Sidechain
6	O	204	PRO	Mainchain
6	O	206	GLU	Mainchain
6	O	208	TYR	Sidechain
6	O	211	ALA	Mainchain
6	O	212	ILE	Mainchain
6	O	215	TYR	Sidechain
6	O	223	PRO	Peptide
6	O	224	ASP	Mainchain
6	O	230	ALA	Mainchain
6	O	235	LEU	Mainchain
6	O	242	PHE	Sidechain
6	O	244	ALA	Mainchain
6	O	248	GLU	Sidechain
6	O	256	SER	Mainchain
6	O	26	MET	Mainchain
6	O	261	GLN	Sidechain
6	O	268	GLY	Mainchain
6	O	269	LYS	Mainchain
6	O	27	THR	Mainchain
6	O	28	SER	Mainchain
6	O	285	PHE	Sidechain
6	O	295	ARG	Sidechain
6	O	298	PHE	Sidechain
6	O	30	ALA	Mainchain
6	O	301	PRO	Mainchain
6	O	304	ALA	Mainchain
6	O	310	PHE	Sidechain
6	O	312	ASN	Mainchain
6	O	32	PRO	Mainchain
6	O	321	THR	Mainchain
6	O	322	TYR	Sidechain
6	O	327	TYR	Sidechain
6	O	330	GLN	Mainchain
6	O	333	PRO	Mainchain
6	O	340	ASP	Mainchain
6	O	342	ASN	Mainchain
6	O	345	ILE	Mainchain

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Mol	Chain	Res	Type	Group
6	O	349	LEU	Mainchain
6	O	350	THR	Mainchain
6	O	362	THR	Mainchain
6	O	364	PRO	Mainchain
6	O	369	SER	Mainchain
6	O	370	VAL	Mainchain
6	O	377	GLN	Mainchain
6	O	381	PRO	Mainchain
6	O	385	VAL	Mainchain
6	O	393	ALA	Mainchain
6	O	398	SER	Mainchain
6	O	401	GLY	Mainchain
6	O	411	VAL	Mainchain
6	O	412	ARG	Sidechain
6	O	416	ARG	Peptide,Mainchain
6	O	417	PHE	Mainchain
6	O	418	ASN	Sidechain
6	O	423	GLN	Mainchain
6	O	426	PHE	Sidechain
6	O	428	ARG	Mainchain
6	O	434	ILE	Mainchain
6	O	435	PRO	Mainchain
6	O	436	TYR	Sidechain
6	O	438	TYR	Sidechain,Mainchain
6	O	44	THR	Mainchain
6	O	445	ILE	Mainchain
6	O	457	PRO	Mainchain
6	O	458	THR	Mainchain
6	O	46	LYS	Mainchain
6	O	462	GLY	Mainchain
6	O	472	ARG	Sidechain
6	O	484	ILE	Mainchain
6	O	491	ALA	Mainchain
6	O	492	ASN	Mainchain
6	O	506	ALA	Mainchain
6	O	509	LEU	Mainchain
6	O	513	HIS	Sidechain
6	O	516	LYS	Mainchain
6	O	522	GLY	Mainchain
6	O	526	PRO	Mainchain
6	O	529	SER	Mainchain
6	O	533	ASP	Sidechain

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Mol	Chain	Res	Type	Group
6	O	537	SER	Mainchain
6	O	547	HIS	Sidechain
6	O	562	TYR	Sidechain
6	O	567	ARG	Mainchain
6	O	576	PHE	Sidechain
6	O	58	ILE	Mainchain
6	O	585	GLN	Sidechain
6	O	59	ASP	Mainchain
6	O	590	VAL	Mainchain
6	O	596	MET	Mainchain
6	O	597	LEU	Mainchain
6	O	608	LEU	Mainchain
6	O	609	ARG	Sidechain
6	O	610	THR	Mainchain
6	O	613	LEU	Mainchain
6	O	615	LYS	Mainchain
6	O	619	ASP	Sidechain,Mainchain
6	O	62	ALA	Mainchain
6	O	622	GLU	Mainchain
6	O	623	LYS	Mainchain
6	O	625	ARG	Sidechain
6	O	627	ARG	Sidechain,Mainchain
6	O	634	LYS	Mainchain
6	O	64	VAL	Mainchain
6	O	641	ILE	Mainchain
6	O	67	ARG	Sidechain
6	O	68	PHE	Sidechain
6	O	71	TYR	Sidechain
6	O	73	PHE	Sidechain
6	O	75	ASN	Mainchain
6	O	76	GLU	Mainchain
6	O	79	ARG	Sidechain
6	O	93	GLN	Sidechain,Mainchain
6	O	94	PRO	Mainchain
6	O	97	GLN	Mainchain
6	P	11	TYR	Sidechain
6	P	111	PHE	Sidechain
6	P	118	TYR	Sidechain
6	P	119	VAL	Mainchain
6	P	126	ALA	Mainchain
6	P	13	ILE	Mainchain
6	P	143	MET	Mainchain

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Mol	Chain	Res	Type	Group
6	P	147	ARG	Sidechain
6	P	15	GLY	Mainchain
6	P	150	ALA	Mainchain
6	P	152	ARG	Sidechain
6	P	154	ARG	Mainchain
6	P	157	ALA	Mainchain
6	P	160	GLN	Sidechain
6	P	164	ASP	Sidechain
6	P	169	MET	Peptide,Mainchain
6	P	177	GLY	Mainchain
6	P	182	ASN	Sidechain
6	P	183	TRP	Mainchain
6	P	185	SER	Mainchain
6	P	189	PHE	Sidechain
6	P	191	LYS	Mainchain
6	P	20	PHE	Mainchain
6	P	200	CYS	Mainchain
6	P	203	TYR	Sidechain
6	P	204	PRO	Mainchain
6	P	206	GLU	Sidechain,Mainchain
6	P	208	TYR	Sidechain
6	P	211	ALA	Mainchain
6	P	212	ILE	Mainchain
6	P	215	TYR	Sidechain
6	P	223	PRO	Peptide
6	P	224	ASP	Mainchain
6	P	230	ALA	Mainchain
6	P	235	LEU	Mainchain
6	P	242	PHE	Sidechain
6	P	244	ALA	Mainchain
6	P	248	GLU	Sidechain
6	P	256	SER	Mainchain
6	P	26	MET	Mainchain
6	P	261	GLN	Sidechain
6	P	268	GLY	Mainchain
6	P	269	LYS	Mainchain
6	P	27	THR	Mainchain
6	P	28	SER	Mainchain
6	P	285	PHE	Sidechain
6	P	295	ARG	Sidechain
6	P	298	PHE	Sidechain
6	P	301	PRO	Mainchain

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Mol	Chain	Res	Type	Group
6	P	304	ALA	Mainchain
6	P	310	PHE	Sidechain
6	P	312	ASN	Mainchain
6	P	32	PRO	Mainchain
6	P	322	TYR	Sidechain
6	P	327	TYR	Sidechain
6	P	333	PRO	Mainchain
6	P	340	ASP	Mainchain
6	P	342	ASN	Mainchain
6	P	345	ILE	Mainchain
6	P	349	LEU	Mainchain
6	P	350	THR	Mainchain
6	P	360	TYR	Sidechain
6	P	362	THR	Mainchain
6	P	364	PRO	Mainchain
6	P	366	LEU	Mainchain
6	P	369	SER	Mainchain
6	P	370	VAL	Mainchain
6	P	377	GLN	Mainchain
6	P	381	PRO	Mainchain
6	P	385	VAL	Mainchain
6	P	398	SER	Mainchain
6	P	401	GLY	Mainchain
6	P	412	ARG	Sidechain
6	P	414	GLN	Sidechain
6	P	416	ARG	Peptide,Mainchain
6	P	417	PHE	Mainchain
6	P	418	ASN	Sidechain
6	P	422	LEU	Mainchain
6	P	423	GLN	Mainchain
6	P	426	PHE	Sidechain
6	P	428	ARG	Mainchain
6	P	434	ILE	Mainchain
6	P	435	PRO	Mainchain
6	P	436	TYR	Sidechain
6	P	438	TYR	Sidechain,Mainchain
6	P	44	THR	Mainchain
6	P	445	ILE	Mainchain
6	P	457	PRO	Mainchain
6	P	458	THR	Mainchain
6	P	46	LYS	Mainchain
6	P	462	GLY	Mainchain

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Mol	Chain	Res	Type	Group
6	P	472	ARG	Sidechain
6	P	484	ILE	Mainchain
6	P	49	ARG	Sidechain
6	P	491	ALA	Mainchain
6	P	492	ASN	Mainchain
6	P	506	ALA	Mainchain
6	P	509	LEU	Mainchain
6	P	51	VAL	Mainchain
6	P	513	HIS	Sidechain
6	P	516	LYS	Mainchain
6	P	522	GLY	Mainchain
6	P	526	PRO	Mainchain
6	P	529	SER	Mainchain
6	P	533	ASP	Sidechain
6	P	537	SER	Mainchain
6	P	54	SER	Mainchain
6	P	547	HIS	Sidechain
6	P	55	VAL	Peptide,Mainchain
6	P	562	TYR	Sidechain
6	P	567	ARG	Mainchain
6	P	576	PHE	Sidechain
6	P	58	ILE	Mainchain
6	P	59	ASP	Mainchain
6	P	590	VAL	Mainchain
6	P	596	MET	Mainchain
6	P	597	LEU	Mainchain
6	P	609	ARG	Sidechain
6	P	61	LEU	Mainchain
6	P	610	THR	Mainchain
6	P	613	LEU	Mainchain
6	P	615	LYS	Mainchain
6	P	619	ASP	Mainchain
6	P	62	ALA	Mainchain
6	P	622	GLU	Mainchain
6	P	623	LYS	Mainchain
6	P	627	ARG	Sidechain,Mainchain
6	P	634	LYS	Mainchain
6	P	641	ILE	Mainchain
6	P	67	ARG	Sidechain
6	P	68	PHE	Sidechain
6	P	71	TYR	Sidechain
6	P	73	PHE	Sidechain

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Mol	Chain	Res	Type	Group
6	P	75	ASN	Mainchain
6	P	76	GLU	Mainchain
6	P	79	ARG	Sidechain
6	P	93	GLN	Sidechain,Mainchain
6	P	94	PRO	Mainchain
6	P	96	PHE	Mainchain
6	P	97	GLN	Mainchain
6	Q	11	TYR	Sidechain
6	Q	111	PHE	Sidechain
6	Q	118	TYR	Sidechain
6	Q	119	VAL	Mainchain
6	Q	126	ALA	Mainchain
6	Q	13	ILE	Mainchain
6	Q	143	MET	Mainchain
6	Q	147	ARG	Sidechain
6	Q	15	GLY	Mainchain
6	Q	150	ALA	Mainchain
6	Q	152	ARG	Sidechain
6	Q	154	ARG	Sidechain,Mainchain
6	Q	157	ALA	Mainchain
6	Q	160	GLN	Sidechain
6	Q	164	ASP	Sidechain
6	Q	169	MET	Peptide,Mainchain
6	Q	182	ASN	Sidechain
6	Q	183	TRP	Mainchain
6	Q	185	SER	Mainchain
6	Q	189	PHE	Sidechain
6	Q	191	LYS	Mainchain
6	Q	20	PHE	Mainchain
6	Q	200	CYS	Mainchain
6	Q	203	TYR	Sidechain
6	Q	204	PRO	Mainchain
6	Q	206	GLU	Sidechain,Mainchain
6	Q	208	TYR	Sidechain
6	Q	211	ALA	Mainchain
6	Q	212	ILE	Mainchain
6	Q	215	TYR	Sidechain
6	Q	223	PRO	Peptide
6	Q	224	ASP	Mainchain
6	Q	230	ALA	Mainchain
6	Q	235	LEU	Mainchain
6	Q	242	PHE	Sidechain

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Mol	Chain	Res	Type	Group
6	Q	244	ALA	Mainchain
6	Q	248	GLU	Sidechain
6	Q	256	SER	Mainchain
6	Q	26	MET	Mainchain
6	Q	261	GLN	Sidechain
6	Q	268	GLY	Mainchain
6	Q	269	LYS	Mainchain
6	Q	27	THR	Mainchain
6	Q	28	SER	Mainchain
6	Q	285	PHE	Sidechain
6	Q	295	ARG	Sidechain
6	Q	298	PHE	Sidechain
6	Q	301	PRO	Mainchain
6	Q	304	ALA	Mainchain
6	Q	310	PHE	Sidechain
6	Q	312	ASN	Mainchain
6	Q	32	PRO	Mainchain
6	Q	322	TYR	Sidechain
6	Q	327	TYR	Sidechain
6	Q	330	GLN	Mainchain
6	Q	333	PRO	Mainchain
6	Q	340	ASP	Mainchain
6	Q	342	ASN	Mainchain
6	Q	345	ILE	Mainchain
6	Q	349	LEU	Mainchain
6	Q	350	THR	Mainchain
6	Q	360	TYR	Sidechain
6	Q	362	THR	Mainchain
6	Q	364	PRO	Mainchain
6	Q	366	LEU	Mainchain
6	Q	369	SER	Mainchain
6	Q	370	VAL	Mainchain
6	Q	377	GLN	Mainchain
6	Q	381	PRO	Mainchain
6	Q	385	VAL	Mainchain
6	Q	393	ALA	Mainchain
6	Q	398	SER	Mainchain
6	Q	401	GLY	Mainchain
6	Q	411	VAL	Mainchain
6	Q	412	ARG	Sidechain
6	Q	414	GLN	Sidechain
6	Q	416	ARG	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
6	Q	417	PHE	Mainchain
6	Q	418	ASN	Sidechain
6	Q	422	LEU	Mainchain
6	Q	423	GLN	Mainchain
6	Q	426	PHE	Sidechain
6	Q	428	ARG	Mainchain
6	Q	434	ILE	Mainchain
6	Q	435	PRO	Mainchain
6	Q	436	TYR	Sidechain
6	Q	438	TYR	Sidechain,Mainchain
6	Q	44	THR	Mainchain
6	Q	445	ILE	Mainchain
6	Q	457	PRO	Mainchain
6	Q	458	THR	Mainchain
6	Q	46	LYS	Mainchain
6	Q	462	GLY	Mainchain
6	Q	472	ARG	Sidechain
6	Q	476	TYR	Sidechain
6	Q	484	ILE	Mainchain
6	Q	491	ALA	Mainchain
6	Q	492	ASN	Mainchain
6	Q	506	ALA	Mainchain
6	Q	509	LEU	Mainchain
6	Q	513	HIS	Sidechain
6	Q	516	LYS	Mainchain
6	Q	522	GLY	Mainchain
6	Q	526	PRO	Mainchain
6	Q	529	SER	Mainchain
6	Q	533	ASP	Sidechain
6	Q	537	SER	Mainchain
6	Q	547	HIS	Sidechain
6	Q	562	TYR	Sidechain
6	Q	567	ARG	Mainchain
6	Q	576	PHE	Sidechain
6	Q	58	ILE	Mainchain
6	Q	585	GLN	Sidechain
6	Q	59	ASP	Mainchain
6	Q	590	VAL	Mainchain
6	Q	596	MET	Mainchain
6	Q	597	LEU	Mainchain
6	Q	609	ARG	Sidechain
6	Q	610	THR	Mainchain

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Mol	Chain	Res	Type	Group
6	Q	613	LEU	Mainchain
6	Q	615	LYS	Mainchain
6	Q	619	ASP	Sidechain,Mainchain
6	Q	62	ALA	Mainchain
6	Q	622	GLU	Mainchain
6	Q	623	LYS	Mainchain
6	Q	625	ARG	Sidechain
6	Q	627	ARG	Sidechain,Mainchain
6	Q	634	LYS	Mainchain
6	Q	641	ILE	Mainchain
6	Q	67	ARG	Sidechain
6	Q	68	PHE	Sidechain
6	Q	71	TYR	Sidechain
6	Q	73	PHE	Sidechain
6	Q	75	ASN	Mainchain
6	Q	76	GLU	Mainchain
6	Q	79	ARG	Sidechain
6	Q	93	GLN	Sidechain
6	Q	94	PRO	Mainchain
6	Q	97	GLN	Mainchain
5	R	1	MET	Peptide
5	R	101	TYR	Sidechain
5	R	102	HIS	Sidechain
5	R	107	LYS	Mainchain
5	R	113	PRO	Mainchain
5	R	118	THR	Mainchain
5	R	122	SER	Mainchain
5	R	127	GLU	Mainchain
5	R	130	PHE	Sidechain
5	R	138	SER	Mainchain
5	R	144	VAL	Mainchain
5	R	148	CYS	Mainchain
5	R	154	GLY	Mainchain
5	R	157	HIS	Sidechain
5	R	164	ASP	Mainchain
5	R	165	PHE	Sidechain,Mainchain
5	R	167	LEU	Peptide
5	R	168	PRO	Mainchain
5	R	169	ASN	Sidechain
5	R	175	PRO	Mainchain
5	R	177	ASP	Mainchain
5	R	181	PRO	Mainchain

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Mol	Chain	Res	Type	Group
5	R	186	LEU	Mainchain
5	R	2	PRO	Mainchain
5	R	202	ALA	Mainchain
5	R	21	ARG	Mainchain
5	R	211	ALA	Mainchain
5	R	214	ARG	Sidechain,Mainchain
5	R	215	ALA	Mainchain
5	R	216	ILE	Mainchain
5	R	23	THR	Mainchain
5	R	234	ARG	Sidechain
5	R	238	TYR	Mainchain
5	R	239	GLY	Mainchain
5	R	241	ALA	Mainchain
5	R	245	LEU	Mainchain
5	R	247	PHE	Mainchain
5	R	25	TYR	Sidechain
5	R	26	THR	Mainchain
5	R	260	PHE	Sidechain
5	R	27	ARG	Sidechain
5	R	271	HIS	Mainchain
5	R	273	GLU	Mainchain
5	R	32	THR	Mainchain
5	R	34	ASN	Mainchain
5	R	35	PHE	Sidechain
5	R	36	ASP	Mainchain
5	R	39	GLU	Sidechain
5	R	4	HIS	Sidechain
5	R	40	TYR	Sidechain
5	R	45	ARG	Sidechain,Mainchain
5	R	46	TYR	Sidechain
5	R	47	THR	Mainchain
5	R	49	CYS	Mainchain
5	R	51	PHE	Sidechain
5	R	58	PRO	Mainchain
5	R	63	LYS	Mainchain
5	R	66	GLN	Mainchain
5	R	69	HIS	Sidechain
5	R	74	GLN	Sidechain
5	R	75	PRO	Mainchain
5	R	78	ALA	Mainchain
5	R	80	ARG	Sidechain
5	R	81	SER	Mainchain

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Mol	Chain	Res	Type	Group
5	R	90	GLN	Sidechain
5	S	1	MET	Peptide
5	S	10	ALA	Mainchain
5	S	101	TYR	Sidechain
5	S	102	HIS	Sidechain
5	S	107	LYS	Mainchain
5	S	112	ALA	Mainchain
5	S	113	PRO	Mainchain
5	S	118	THR	Mainchain
5	S	122	SER	Mainchain
5	S	127	GLU	Mainchain
5	S	130	PHE	Sidechain
5	S	138	SER	Mainchain
5	S	144	VAL	Mainchain
5	S	148	CYS	Mainchain
5	S	154	GLY	Mainchain
5	S	157	HIS	Sidechain
5	S	164	ASP	Mainchain
5	S	165	PHE	Sidechain,Mainchain
5	S	167	LEU	Peptide
5	S	168	PRO	Mainchain
5	S	169	ASN	Sidechain
5	S	175	PRO	Mainchain
5	S	177	ASP	Mainchain
5	S	181	PRO	Mainchain
5	S	186	LEU	Mainchain
5	S	2	PRO	Mainchain
5	S	202	ALA	Mainchain
5	S	21	ARG	Mainchain
5	S	211	ALA	Mainchain
5	S	214	ARG	Sidechain,Mainchain
5	S	216	ILE	Mainchain
5	S	23	THR	Mainchain
5	S	234	ARG	Sidechain
5	S	238	TYR	Mainchain
5	S	241	ALA	Mainchain
5	S	245	LEU	Mainchain
5	S	247	PHE	Mainchain
5	S	25	TYR	Sidechain
5	S	26	THR	Mainchain
5	S	260	PHE	Sidechain
5	S	271	HIS	Mainchain

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Mol	Chain	Res	Type	Group
5	S	273	GLU	Mainchain
5	S	32	THR	Mainchain
5	S	34	ASN	Mainchain
5	S	35	PHE	Sidechain
5	S	36	ASP	Mainchain
5	S	39	GLU	Sidechain
5	S	4	HIS	Sidechain
5	S	40	TYR	Sidechain
5	S	45	ARG	Sidechain
5	S	46	TYR	Sidechain
5	S	47	THR	Mainchain
5	S	49	CYS	Mainchain
5	S	51	PHE	Sidechain
5	S	52	CYS	Mainchain
5	S	58	PRO	Mainchain
5	S	63	LYS	Mainchain
5	S	66	GLN	Mainchain
5	S	69	HIS	Sidechain
5	S	74	GLN	Sidechain
5	S	75	PRO	Mainchain
5	S	78	ALA	Mainchain
5	S	80	ARG	Sidechain
5	S	81	SER	Mainchain
5	S	90	GLN	Sidechain
5	T	1	MET	Peptide
5	T	101	TYR	Sidechain
5	T	102	HIS	Sidechain
5	T	107	LYS	Mainchain
5	T	112	ALA	Mainchain
5	T	113	PRO	Mainchain
5	T	118	THR	Mainchain
5	T	122	SER	Mainchain
5	T	127	GLU	Mainchain
5	T	130	PHE	Sidechain
5	T	138	SER	Mainchain
5	T	144	VAL	Mainchain
5	T	148	CYS	Mainchain
5	T	154	GLY	Mainchain
5	T	157	HIS	Sidechain
5	T	164	ASP	Mainchain
5	T	165	PHE	Sidechain,Mainchain
5	T	167	LEU	Peptide

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Mol	Chain	Res	Type	Group
5	T	168	PRO	Mainchain
5	T	169	ASN	Sidechain
5	T	175	PRO	Mainchain
5	T	177	ASP	Mainchain
5	T	181	PRO	Mainchain
5	T	186	LEU	Mainchain
5	T	2	PRO	Mainchain
5	T	202	ALA	Mainchain
5	T	21	ARG	Mainchain
5	T	211	ALA	Mainchain
5	T	214	ARG	Sidechain,Mainchain
5	T	216	ILE	Mainchain
5	T	23	THR	Mainchain
5	T	234	ARG	Sidechain
5	T	238	TYR	Mainchain
5	T	241	ALA	Mainchain
5	T	245	LEU	Mainchain
5	T	247	PHE	Mainchain
5	T	25	TYR	Sidechain
5	T	26	THR	Mainchain
5	T	260	PHE	Sidechain
5	T	27	ARG	Sidechain
5	T	271	HIS	Mainchain
5	T	273	GLU	Mainchain
5	T	32	THR	Mainchain
5	T	34	ASN	Mainchain
5	T	35	PHE	Sidechain
5	T	36	ASP	Mainchain
5	T	39	GLU	Sidechain
5	T	4	HIS	Sidechain
5	T	40	TYR	Sidechain
5	T	45	ARG	Sidechain
5	T	46	TYR	Sidechain
5	T	47	THR	Mainchain
5	T	49	CYS	Mainchain
5	T	51	PHE	Sidechain
5	T	52	CYS	Mainchain
5	T	58	PRO	Mainchain
5	T	63	LYS	Mainchain
5	T	66	GLN	Mainchain
5	T	69	HIS	Sidechain
5	T	74	GLN	Sidechain

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Mol	Chain	Res	Type	Group
5	T	75	PRO	Mainchain
5	T	78	ALA	Mainchain
5	T	80	ARG	Sidechain
5	T	81	SER	Mainchain
5	T	90	GLN	Sidechain
6	U	11	TYR	Sidechain
6	U	111	PHE	Sidechain
6	U	117	GLY	Mainchain
6	U	118	TYR	Sidechain
6	U	119	VAL	Mainchain
6	U	126	ALA	Mainchain
6	U	13	ILE	Mainchain
6	U	143	MET	Mainchain
6	U	15	GLY	Mainchain
6	U	150	ALA	Mainchain
6	U	152	ARG	Sidechain
6	U	154	ARG	Sidechain,Mainchain
6	U	157	ALA	Mainchain
6	U	160	GLN	Sidechain
6	U	164	ASP	Sidechain
6	U	169	MET	Peptide,Mainchain
6	U	182	ASN	Sidechain
6	U	183	TRP	Mainchain
6	U	185	SER	Mainchain
6	U	189	PHE	Sidechain
6	U	191	LYS	Mainchain
6	U	20	PHE	Mainchain
6	U	200	CYS	Mainchain
6	U	203	TYR	Sidechain
6	U	204	PRO	Mainchain
6	U	206	GLU	Mainchain
6	U	208	TYR	Sidechain
6	U	211	ALA	Mainchain
6	U	212	ILE	Mainchain
6	U	215	TYR	Sidechain
6	U	223	PRO	Peptide
6	U	229	ASP	Mainchain
6	U	230	ALA	Mainchain
6	U	235	LEU	Mainchain
6	U	242	PHE	Sidechain
6	U	244	ALA	Mainchain
6	U	248	GLU	Sidechain

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Mol	Chain	Res	Type	Group
6	U	256	SER	Mainchain
6	U	26	MET	Mainchain
6	U	261	GLN	Sidechain
6	U	268	GLY	Mainchain
6	U	269	LYS	Mainchain
6	U	27	THR	Mainchain
6	U	28	SER	Mainchain
6	U	285	PHE	Sidechain
6	U	295	ARG	Sidechain
6	U	298	PHE	Sidechain
6	U	30	ALA	Mainchain
6	U	301	PRO	Mainchain
6	U	304	ALA	Mainchain
6	U	310	PHE	Sidechain
6	U	312	ASN	Mainchain
6	U	32	PRO	Mainchain
6	U	321	THR	Mainchain
6	U	322	TYR	Sidechain
6	U	327	TYR	Sidechain
6	U	333	PRO	Mainchain
6	U	340	ASP	Mainchain
6	U	342	ASN	Mainchain
6	U	345	ILE	Mainchain
6	U	349	LEU	Mainchain
6	U	350	THR	Mainchain
6	U	362	THR	Mainchain
6	U	364	PRO	Mainchain
6	U	366	LEU	Mainchain
6	U	369	SER	Mainchain
6	U	377	GLN	Mainchain
6	U	381	PRO	Mainchain
6	U	385	VAL	Mainchain
6	U	393	ALA	Mainchain
6	U	398	SER	Mainchain
6	U	401	GLY	Mainchain
6	U	411	VAL	Mainchain
6	U	412	ARG	Sidechain
6	U	416	ARG	Peptide,Mainchain
6	U	417	PHE	Mainchain
6	U	418	ASN	Sidechain
6	U	422	LEU	Mainchain
6	U	423	GLN	Mainchain

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Mol	Chain	Res	Type	Group
6	U	426	PHE	Sidechain
6	U	428	ARG	Mainchain
6	U	434	ILE	Mainchain
6	U	435	PRO	Mainchain
6	U	436	TYR	Sidechain
6	U	438	TYR	Sidechain,Mainchain
6	U	44	THR	Mainchain
6	U	457	PRO	Mainchain
6	U	458	THR	Mainchain
6	U	46	LYS	Mainchain
6	U	462	GLY	Mainchain
6	U	472	ARG	Sidechain
6	U	476	TYR	Sidechain
6	U	484	ILE	Mainchain
6	U	491	ALA	Mainchain
6	U	492	ASN	Mainchain
6	U	506	ALA	Mainchain
6	U	509	LEU	Mainchain
6	U	513	HIS	Sidechain
6	U	516	LYS	Mainchain
6	U	522	GLY	Mainchain
6	U	526	PRO	Mainchain
6	U	529	SER	Mainchain
6	U	533	ASP	Sidechain
6	U	537	SER	Mainchain
6	U	547	HIS	Sidechain
6	U	562	TYR	Sidechain
6	U	567	ARG	Mainchain
6	U	576	PHE	Sidechain
6	U	58	ILE	Mainchain
6	U	585	GLN	Sidechain
6	U	59	ASP	Mainchain
6	U	590	VAL	Mainchain
6	U	596	MET	Mainchain
6	U	597	LEU	Mainchain
6	U	609	ARG	Sidechain
6	U	610	THR	Mainchain
6	U	611	GLY	Mainchain
6	U	613	LEU	Mainchain
6	U	615	LYS	Mainchain
6	U	619	ASP	Sidechain,Mainchain
6	U	62	ALA	Mainchain

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Mol	Chain	Res	Type	Group
6	U	622	GLU	Mainchain
6	U	623	LYS	Mainchain
6	U	625	ARG	Sidechain
6	U	627	ARG	Sidechain,Mainchain
6	U	634	LYS	Mainchain
6	U	641	ILE	Mainchain
6	U	67	ARG	Sidechain
6	U	68	PHE	Sidechain
6	U	71	TYR	Sidechain
6	U	73	PHE	Sidechain
6	U	75	ASN	Mainchain
6	U	76	GLU	Mainchain
6	U	79	ARG	Sidechain
6	U	93	GLN	Sidechain,Mainchain
6	U	94	PRO	Mainchain
6	U	96	PHE	Mainchain
6	U	97	GLN	Mainchain
6	V	11	TYR	Sidechain
6	V	111	PHE	Sidechain
6	V	117	GLY	Mainchain
6	V	118	TYR	Sidechain
6	V	119	VAL	Mainchain
6	V	126	ALA	Mainchain
6	V	13	ILE	Mainchain
6	V	143	MET	Mainchain
6	V	15	GLY	Mainchain
6	V	150	ALA	Mainchain
6	V	152	ARG	Sidechain
6	V	154	ARG	Mainchain
6	V	157	ALA	Mainchain
6	V	160	GLN	Sidechain
6	V	164	ASP	Sidechain
6	V	169	MET	Peptide,Mainchain
6	V	177	GLY	Mainchain
6	V	182	ASN	Sidechain
6	V	183	TRP	Mainchain
6	V	185	SER	Mainchain
6	V	189	PHE	Sidechain
6	V	191	LYS	Mainchain
6	V	20	PHE	Mainchain
6	V	200	CYS	Mainchain
6	V	203	TYR	Sidechain

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Mol	Chain	Res	Type	Group
6	V	204	PRO	Mainchain
6	V	206	GLU	Mainchain
6	V	208	TYR	Sidechain
6	V	211	ALA	Mainchain
6	V	212	ILE	Mainchain
6	V	215	TYR	Sidechain
6	V	223	PRO	Peptide
6	V	224	ASP	Mainchain
6	V	229	ASP	Mainchain
6	V	230	ALA	Mainchain
6	V	235	LEU	Mainchain
6	V	242	PHE	Sidechain
6	V	244	ALA	Mainchain
6	V	248	GLU	Sidechain
6	V	256	SER	Mainchain
6	V	26	MET	Mainchain
6	V	261	GLN	Sidechain
6	V	268	GLY	Mainchain
6	V	27	THR	Mainchain
6	V	28	SER	Mainchain
6	V	285	PHE	Sidechain
6	V	295	ARG	Sidechain
6	V	298	PHE	Sidechain
6	V	30	ALA	Mainchain
6	V	301	PRO	Mainchain
6	V	304	ALA	Mainchain
6	V	310	PHE	Sidechain
6	V	312	ASN	Mainchain
6	V	32	PRO	Mainchain
6	V	322	TYR	Sidechain
6	V	327	TYR	Sidechain
6	V	330	GLN	Mainchain
6	V	333	PRO	Mainchain
6	V	340	ASP	Mainchain
6	V	342	ASN	Mainchain
6	V	345	ILE	Mainchain
6	V	349	LEU	Mainchain
6	V	350	THR	Mainchain
6	V	362	THR	Mainchain
6	V	364	PRO	Mainchain
6	V	366	LEU	Mainchain
6	V	369	SER	Mainchain

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Mol	Chain	Res	Type	Group
6	V	377	GLN	Mainchain
6	V	381	PRO	Mainchain
6	V	385	VAL	Mainchain
6	V	393	ALA	Mainchain
6	V	398	SER	Mainchain
6	V	401	GLY	Mainchain
6	V	412	ARG	Sidechain
6	V	414	GLN	Sidechain
6	V	416	ARG	Peptide,Mainchain
6	V	417	PHE	Mainchain
6	V	418	ASN	Sidechain
6	V	423	GLN	Mainchain
6	V	426	PHE	Sidechain
6	V	428	ARG	Mainchain
6	V	434	ILE	Mainchain
6	V	435	PRO	Mainchain
6	V	436	TYR	Sidechain
6	V	438	TYR	Sidechain,Mainchain
6	V	44	THR	Mainchain
6	V	445	ILE	Mainchain
6	V	457	PRO	Mainchain
6	V	458	THR	Mainchain
6	V	46	LYS	Mainchain
6	V	462	GLY	Mainchain
6	V	472	ARG	Sidechain
6	V	484	ILE	Mainchain
6	V	491	ALA	Mainchain
6	V	492	ASN	Mainchain
6	V	506	ALA	Mainchain
6	V	509	LEU	Mainchain
6	V	51	VAL	Mainchain
6	V	513	HIS	Sidechain
6	V	516	LYS	Mainchain
6	V	522	GLY	Mainchain
6	V	526	PRO	Mainchain
6	V	529	SER	Mainchain
6	V	533	ASP	Sidechain
6	V	537	SER	Mainchain
6	V	547	HIS	Sidechain
6	V	562	TYR	Sidechain
6	V	567	ARG	Mainchain
6	V	576	PHE	Sidechain

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Mol	Chain	Res	Type	Group
6	V	58	ILE	Mainchain
6	V	585	GLN	Sidechain
6	V	59	ASP	Mainchain
6	V	590	VAL	Mainchain
6	V	596	MET	Mainchain
6	V	597	LEU	Mainchain
6	V	609	ARG	Sidechain
6	V	610	THR	Mainchain
6	V	613	LEU	Mainchain
6	V	615	LYS	Mainchain
6	V	619	ASP	Mainchain
6	V	62	ALA	Mainchain
6	V	622	GLU	Mainchain
6	V	623	LYS	Mainchain
6	V	627	ARG	Sidechain,Mainchain
6	V	634	LYS	Mainchain
6	V	641	ILE	Mainchain
6	V	67	ARG	Sidechain
6	V	68	PHE	Sidechain
6	V	71	TYR	Sidechain
6	V	73	PHE	Sidechain
6	V	75	ASN	Mainchain
6	V	76	GLU	Mainchain
6	V	79	ARG	Sidechain
6	V	93	GLN	Sidechain,Mainchain
6	V	94	PRO	Mainchain
6	V	97	GLN	Mainchain
6	W	11	TYR	Sidechain
6	W	111	PHE	Sidechain
6	W	118	TYR	Sidechain
6	W	119	VAL	Mainchain
6	W	126	ALA	Mainchain
6	W	13	ILE	Mainchain
6	W	143	MET	Mainchain
6	W	147	ARG	Sidechain
6	W	15	GLY	Mainchain
6	W	150	ALA	Mainchain
6	W	152	ARG	Sidechain
6	W	154	ARG	Sidechain,Mainchain
6	W	157	ALA	Mainchain
6	W	160	GLN	Sidechain
6	W	164	ASP	Sidechain

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Mol	Chain	Res	Type	Group
6	W	169	MET	Peptide,Mainchain
6	W	182	ASN	Sidechain
6	W	183	TRP	Mainchain
6	W	185	SER	Mainchain
6	W	189	PHE	Sidechain
6	W	191	LYS	Mainchain
6	W	20	PHE	Mainchain
6	W	200	CYS	Mainchain
6	W	203	TYR	Sidechain
6	W	204	PRO	Mainchain
6	W	206	GLU	Mainchain
6	W	208	TYR	Sidechain
6	W	211	ALA	Mainchain
6	W	212	ILE	Mainchain
6	W	215	TYR	Sidechain
6	W	223	PRO	Peptide
6	W	230	ALA	Mainchain
6	W	235	LEU	Mainchain
6	W	242	PHE	Sidechain
6	W	244	ALA	Mainchain
6	W	248	GLU	Sidechain
6	W	256	SER	Mainchain
6	W	26	MET	Mainchain
6	W	261	GLN	Sidechain
6	W	268	GLY	Mainchain
6	W	269	LYS	Mainchain
6	W	27	THR	Mainchain
6	W	28	SER	Mainchain
6	W	285	PHE	Sidechain
6	W	295	ARG	Sidechain
6	W	298	PHE	Sidechain
6	W	30	ALA	Mainchain
6	W	301	PRO	Mainchain
6	W	304	ALA	Mainchain
6	W	310	PHE	Sidechain
6	W	312	ASN	Mainchain
6	W	32	PRO	Mainchain
6	W	321	THR	Mainchain
6	W	322	TYR	Sidechain
6	W	327	TYR	Sidechain
6	W	330	GLN	Mainchain
6	W	333	PRO	Mainchain

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Mol	Chain	Res	Type	Group
6	W	340	ASP	Mainchain
6	W	342	ASN	Mainchain
6	W	345	ILE	Mainchain
6	W	349	LEU	Mainchain
6	W	350	THR	Mainchain
6	W	360	TYR	Sidechain
6	W	362	THR	Mainchain
6	W	364	PRO	Mainchain
6	W	366	LEU	Mainchain
6	W	369	SER	Mainchain
6	W	377	GLN	Mainchain
6	W	381	PRO	Mainchain
6	W	385	VAL	Mainchain
6	W	393	ALA	Mainchain
6	W	398	SER	Mainchain
6	W	401	GLY	Mainchain
6	W	411	VAL	Mainchain
6	W	412	ARG	Sidechain
6	W	414	GLN	Sidechain
6	W	416	ARG	Peptide,Mainchain
6	W	417	PHE	Mainchain
6	W	418	ASN	Sidechain
6	W	422	LEU	Mainchain
6	W	423	GLN	Mainchain
6	W	426	PHE	Sidechain
6	W	428	ARG	Mainchain
6	W	434	ILE	Mainchain
6	W	435	PRO	Mainchain
6	W	436	TYR	Sidechain
6	W	438	TYR	Sidechain,Mainchain
6	W	44	THR	Mainchain
6	W	445	ILE	Mainchain
6	W	457	PRO	Mainchain
6	W	458	THR	Mainchain
6	W	46	LYS	Mainchain
6	W	462	GLY	Mainchain
6	W	472	ARG	Sidechain
6	W	484	ILE	Mainchain
6	W	491	ALA	Mainchain
6	W	492	ASN	Mainchain
6	W	506	ALA	Mainchain
6	W	509	LEU	Mainchain

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Mol	Chain	Res	Type	Group
6	W	513	HIS	Sidechain
6	W	516	LYS	Mainchain
6	W	522	GLY	Mainchain
6	W	523	ASP	Mainchain
6	W	526	PRO	Mainchain
6	W	529	SER	Mainchain
6	W	533	ASP	Sidechain
6	W	537	SER	Mainchain
6	W	547	HIS	Sidechain
6	W	562	TYR	Sidechain
6	W	567	ARG	Mainchain
6	W	576	PHE	Sidechain
6	W	58	ILE	Mainchain
6	W	585	GLN	Sidechain
6	W	59	ASP	Mainchain
6	W	590	VAL	Mainchain
6	W	596	MET	Mainchain
6	W	597	LEU	Mainchain
6	W	609	ARG	Sidechain
6	W	610	THR	Mainchain
6	W	613	LEU	Mainchain
6	W	615	LYS	Mainchain
6	W	619	ASP	Sidechain,Mainchain
6	W	62	ALA	Mainchain
6	W	622	GLU	Mainchain
6	W	623	LYS	Mainchain
6	W	625	ARG	Sidechain
6	W	627	ARG	Sidechain,Mainchain
6	W	634	LYS	Mainchain
6	W	641	ILE	Mainchain
6	W	67	ARG	Sidechain
6	W	68	PHE	Sidechain
6	W	71	TYR	Sidechain
6	W	73	PHE	Sidechain
6	W	75	ASN	Mainchain
6	W	76	GLU	Mainchain
6	W	79	ARG	Sidechain
6	W	93	GLN	Sidechain,Mainchain
6	W	94	PRO	Mainchain
6	W	97	GLN	Mainchain
6	X	11	TYR	Sidechain
6	X	111	PHE	Sidechain

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Mol	Chain	Res	Type	Group
6	X	117	GLY	Mainchain
6	X	118	TYR	Sidechain
6	X	119	VAL	Mainchain
6	X	126	ALA	Mainchain
6	X	13	ILE	Mainchain
6	X	141	GLN	Mainchain
6	X	143	MET	Mainchain
6	X	15	GLY	Mainchain
6	X	150	ALA	Mainchain
6	X	152	ARG	Sidechain
6	X	154	ARG	Sidechain
6	X	157	ALA	Mainchain
6	X	164	ASP	Sidechain
6	X	182	ASN	Sidechain
6	X	183	TRP	Mainchain
6	X	185	SER	Mainchain
6	X	189	PHE	Sidechain
6	X	191	LYS	Mainchain
6	X	198	ASN	Mainchain
6	X	20	PHE	Mainchain
6	X	200	CYS	Mainchain
6	X	203	TYR	Sidechain
6	X	204	PRO	Mainchain
6	X	206	GLU	Sidechain,Mainchain
6	X	208	TYR	Sidechain
6	X	211	ALA	Mainchain
6	X	212	ILE	Mainchain
6	X	215	TYR	Sidechain
6	X	223	PRO	Peptide
6	X	224	ASP	Mainchain
6	X	230	ALA	Mainchain
6	X	235	LEU	Mainchain
6	X	242	PHE	Sidechain
6	X	244	ALA	Mainchain
6	X	246	THR	Mainchain
6	X	256	SER	Mainchain
6	X	26	MET	Mainchain
6	X	261	GLN	Sidechain
6	X	268	GLY	Mainchain
6	X	285	PHE	Sidechain
6	X	30	ALA	Mainchain
6	X	301	PRO	Mainchain

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Mol	Chain	Res	Type	Group
6	X	304	ALA	Mainchain
6	X	310	PHE	Sidechain
6	X	312	ASN	Mainchain
6	X	322	TYR	Sidechain
6	X	327	TYR	Sidechain
6	X	330	GLN	Mainchain
6	X	333	PRO	Mainchain
6	X	340	ASP	Mainchain
6	X	342	ASN	Mainchain
6	X	345	ILE	Mainchain
6	X	349	LEU	Mainchain
6	X	350	THR	Mainchain
6	X	362	THR	Mainchain
6	X	364	PRO	Mainchain
6	X	366	LEU	Mainchain
6	X	369	SER	Mainchain
6	X	370	VAL	Mainchain
6	X	377	GLN	Mainchain
6	X	381	PRO	Mainchain
6	X	385	VAL	Mainchain
6	X	398	SER	Mainchain
6	X	401	GLY	Mainchain
6	X	417	PHE	Mainchain
6	X	422	LEU	Mainchain
6	X	423	GLN	Mainchain
6	X	426	PHE	Sidechain
6	X	428	ARG	Mainchain
6	X	434	ILE	Mainchain
6	X	435	PRO	Mainchain
6	X	436	TYR	Sidechain
6	X	438	TYR	Sidechain,Mainchain
6	X	44	THR	Mainchain
6	X	445	ILE	Mainchain
6	X	458	THR	Mainchain
6	X	46	LYS	Mainchain
6	X	462	GLY	Mainchain
6	X	472	ARG	Sidechain
6	X	476	TYR	Sidechain
6	X	484	ILE	Mainchain
6	X	491	ALA	Mainchain
6	X	492	ASN	Mainchain
6	X	504	ASN	Mainchain

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Mol	Chain	Res	Type	Group
6	X	506	ALA	Mainchain
6	X	509	LEU	Mainchain
6	X	51	VAL	Mainchain
6	X	513	HIS	Sidechain
6	X	516	LYS	Mainchain
6	X	522	GLY	Mainchain
6	X	526	PRO	Mainchain
6	X	537	SER	Mainchain
6	X	547	HIS	Sidechain
6	X	562	TYR	Sidechain
6	X	567	ARG	Mainchain
6	X	576	PHE	Sidechain
6	X	58	ILE	Mainchain
6	X	585	GLN	Sidechain
6	X	586	VAL	Peptide
6	X	587	GLY	Mainchain
6	X	59	ASP	Mainchain
6	X	590	VAL	Mainchain
6	X	596	MET	Mainchain
6	X	597	LEU	Mainchain
6	X	598	SER	Mainchain
6	X	609	ARG	Sidechain
6	X	61	LEU	Mainchain
6	X	610	THR	Mainchain
6	X	612	SER	Mainchain
6	X	613	LEU	Mainchain
6	X	615	LYS	Mainchain
6	X	619	ASP	Mainchain
6	X	62	ALA	Mainchain
6	X	622	GLU	Mainchain
6	X	623	LYS	Mainchain
6	X	627	ARG	Sidechain,Mainchain
6	X	634	LYS	Mainchain
6	X	64	VAL	Mainchain
6	X	641	ILE	Mainchain
6	X	67	ARG	Sidechain
6	X	68	PHE	Sidechain
6	X	71	TYR	Sidechain
6	X	73	PHE	Sidechain
6	X	75	ASN	Mainchain
6	X	76	GLU	Mainchain
6	X	79	ARG	Sidechain

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Mol	Chain	Res	Type	Group
6	X	93	GLN	Sidechain,Mainchain
6	X	94	PRO	Mainchain
6	X	97	GLN	Mainchain
5	Y	1	MET	Peptide
5	Y	10	ALA	Mainchain
5	Y	101	TYR	Sidechain
5	Y	102	HIS	Sidechain
5	Y	107	LYS	Mainchain
5	Y	113	PRO	Mainchain
5	Y	118	THR	Mainchain
5	Y	122	SER	Mainchain
5	Y	127	GLU	Mainchain
5	Y	130	PHE	Sidechain
5	Y	138	SER	Mainchain
5	Y	144	VAL	Mainchain
5	Y	148	CYS	Mainchain
5	Y	154	GLY	Mainchain
5	Y	157	HIS	Sidechain
5	Y	164	ASP	Mainchain
5	Y	165	PHE	Sidechain,Mainchain
5	Y	167	LEU	Peptide
5	Y	168	PRO	Mainchain
5	Y	169	ASN	Sidechain
5	Y	175	PRO	Mainchain
5	Y	177	ASP	Mainchain
5	Y	181	PRO	Mainchain
5	Y	186	LEU	Mainchain
5	Y	2	PRO	Mainchain
5	Y	202	ALA	Mainchain
5	Y	21	ARG	Mainchain
5	Y	211	ALA	Mainchain
5	Y	214	ARG	Sidechain,Mainchain
5	Y	215	ALA	Mainchain
5	Y	216	ILE	Mainchain
5	Y	23	THR	Mainchain
5	Y	234	ARG	Sidechain
5	Y	238	TYR	Mainchain
5	Y	241	ALA	Mainchain
5	Y	245	LEU	Mainchain
5	Y	247	PHE	Mainchain
5	Y	25	TYR	Sidechain
5	Y	26	THR	Mainchain

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Mol	Chain	Res	Type	Group
5	Y	260	PHE	Sidechain
5	Y	27	ARG	Sidechain
5	Y	271	HIS	Mainchain
5	Y	273	GLU	Mainchain
5	Y	32	THR	Mainchain
5	Y	34	ASN	Mainchain
5	Y	35	PHE	Sidechain
5	Y	36	ASP	Mainchain
5	Y	39	GLU	Sidechain
5	Y	4	HIS	Sidechain
5	Y	40	TYR	Sidechain
5	Y	45	ARG	Sidechain
5	Y	46	TYR	Sidechain
5	Y	47	THR	Mainchain
5	Y	49	CYS	Mainchain
5	Y	51	PHE	Sidechain
5	Y	52	CYS	Mainchain
5	Y	58	PRO	Mainchain
5	Y	63	LYS	Mainchain
5	Y	66	GLN	Mainchain
5	Y	69	HIS	Sidechain
5	Y	74	GLN	Sidechain
5	Y	75	PRO	Mainchain
5	Y	78	ALA	Mainchain
5	Y	80	ARG	Sidechain
5	Y	81	SER	Mainchain
5	Y	90	GLN	Sidechain

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	9989	0	9916	392	0
2	B	7935	0	7904	780	0
3	C	9154	0	9092	618	0
4	D	3145	0	3071	592	0
4	E	3145	0	3071	283	0
5	F	2085	0	2019	231	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	G	2085	0	2019	239	0
5	H	2085	0	2019	243	0
5	L	2085	0	2019	228	0
5	M	2085	0	2019	233	0
5	N	2085	0	2019	248	0
5	R	2085	0	2019	227	0
5	S	2085	0	2019	241	0
5	T	2085	0	2019	247	0
5	Y	2085	0	2019	174	0
6	I	4758	0	4791	1967	0
6	J	4758	0	4792	1897	0
6	K	4758	0	4793	1875	0
6	O	4758	0	4792	1917	0
6	P	4758	0	4791	2038	0
6	Q	4758	0	4792	1870	0
6	U	4758	0	4792	2062	0
6	V	4758	0	4793	1898	0
6	W	4758	0	4790	1925	0
6	X	4758	0	4798	231	0
All	All	101798	0	101168	13636	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 67.

All (13636) 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)
5:N:4:HIS:CG	6:O:586:VAL:HG22	1.19	1.72
6:U:66:ASP:HB2	6:V:232:ALA:CB	1.22	1.68
6:V:193:ILE:HG22	6:W:562:TYR:CE1	1.24	1.68
6:U:193:ILE:HG22	6:V:562:TYR:CE1	1.27	1.67
6:U:459:LEU:CB	6:V:414:GLN:HE22	1.05	1.67
6:O:534:SER:CB	6:Q:165:THR:HG23	1.20	1.67
6:O:545:VAL:CG1	6:Q:641:ILE:HG13	1.19	1.66
5:L:4:HIS:CD2	6:P:586:VAL:HG22	1.15	1.66
5:T:4:HIS:CG	6:U:586:VAL:HG22	1.19	1.66
6:O:417:PHE:HA	6:Q:298:PHE:CE2	1.29	1.65
6:O:562:TYR:CE1	6:Q:193:ILE:HG22	1.25	1.65
2:B:792:GLN:HE21	4:D:105:ALA:CB	1.08	1.65
6:V:165:THR:CG2	6:W:534:SER:CB	1.74	1.65
6:J:193:ILE:HG22	6:K:562:TYR:CZ	1.31	1.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:641:ILE:HG13	6:W:545:VAL:CG1	1.25	1.65
6:J:193:ILE:HG22	6:K:562:TYR:CE1	1.25	1.65
6:V:458:THR:CA	6:W:412:ARG:HD2	1.24	1.65
6:J:165:THR:CG2	6:K:534:SER:CB	1.74	1.64
6:I:534:SER:CB	6:K:165:THR:CG2	1.74	1.64
6:P:644:LEU:HD22	6:Q:548:LYS:CE	1.25	1.64
6:U:298:PHE:CZ	6:V:417:PHE:CA	1.80	1.64
6:I:562:TYR:CE1	6:K:193:ILE:HG22	1.27	1.64
6:U:298:PHE:CE2	6:V:417:PHE:HA	1.12	1.64
6:O:160:GLN:HE21	6:P:612:SER:CA	1.01	1.64
6:P:193:ILE:HG22	6:Q:562:TYR:CE1	1.23	1.63
6:V:193:ILE:CG2	6:W:562:TYR:CE1	1.80	1.63
6:V:457:PRO:CG	6:W:411:VAL:CG1	1.74	1.63
4:D:389:PHE:CA	6:P:54:SER:HB2	1.27	1.63
5:H:4:HIS:CG	6:I:586:VAL:HG22	1.19	1.63
6:I:66:ASP:HB2	6:J:232:ALA:CB	1.22	1.63
6:I:232:ALA:CB	6:K:66:ASP:HB2	1.25	1.63
6:U:275:GLU:CG	6:W:630:LEU:HD13	1.26	1.63
6:O:418:ASN:HA	6:Q:298:PHE:CB	1.29	1.63
2:B:1182:ASN:CA	4:D:52:PRO:CB	1.74	1.63
6:I:275:GLU:CG	6:K:630:LEU:HD13	1.27	1.63
6:J:160:GLN:HE21	6:K:612:SER:CA	1.01	1.63
6:O:298:PHE:CZ	6:P:417:PHE:CA	1.82	1.63
5:T:4:HIS:CD2	6:U:586:VAL:CG2	1.80	1.63
2:B:954:PRO:CG	4:D:39:SER:CB	1.77	1.63
6:I:121:ALA:CB	6:J:87:PHE:CG	1.82	1.62
6:I:160:GLN:HE21	6:J:612:SER:CA	1.02	1.62
6:I:411:VAL:CG1	6:K:457:PRO:CG	1.77	1.62
5:S:4:HIS:CG	6:W:586:VAL:HG22	1.18	1.63
6:O:534:SER:CB	6:Q:165:THR:CG2	1.74	1.62
5:T:44:GLY:CA	6:V:400:ALA:HA	1.29	1.62
6:U:562:TYR:CE1	6:W:193:ILE:HG22	1.27	1.62
5:H:4:HIS:CD2	6:I:586:VAL:CG2	1.81	1.62
6:P:299:ILE:HD12	6:Q:419:MET:CE	1.30	1.62
5:M:4:HIS:CG	6:Q:586:VAL:HG22	1.18	1.61
6:O:121:ALA:HB2	6:P:87:PHE:CD1	1.34	1.61
6:O:562:TYR:CE1	6:Q:193:ILE:CG2	1.83	1.61
6:U:121:ALA:CB	6:V:87:PHE:CG	1.82	1.61
6:O:545:VAL:HG11	6:Q:641:ILE:CG1	1.24	1.61
5:T:44:GLY:CA	6:V:400:ALA:CA	1.79	1.61
6:U:160:GLN:HE21	6:V:612:SER:CA	1.02	1.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:232:ALA:CB	6:Q:66:ASP:HB2	1.27	1.61
5:R:44:GLY:CA	6:W:400:ALA:HA	1.26	1.61
6:J:66:ASP:HB2	6:K:232:ALA:CB	1.31	1.61
6:J:193:ILE:CG2	6:K:562:TYR:CE1	1.80	1.61
6:O:121:ALA:CB	6:P:87:PHE:CG	1.83	1.61
6:O:193:ILE:HG22	6:P:562:TYR:CE1	1.28	1.61
6:O:630:LEU:HD13	6:P:275:GLU:CG	1.29	1.61
6:P:193:ILE:CG2	6:Q:562:TYR:CE1	1.79	1.61
6:U:165:THR:CG2	6:V:534:SER:CB	1.75	1.61
6:O:411:VAL:CG1	6:Q:457:PRO:CG	1.79	1.61
6:O:411:VAL:HG12	6:Q:457:PRO:CD	1.21	1.61
6:U:562:TYR:CE1	6:W:193:ILE:CG2	1.84	1.61
4:D:389:PHE:CA	6:P:54:SER:CB	1.79	1.60
5:G:4:HIS:CG	6:K:586:VAL:HG22	1.17	1.60
6:O:641:ILE:CG1	6:P:545:VAL:HG11	1.21	1.60
5:F:4:HIS:CD2	6:J:586:VAL:HG22	1.15	1.60
6:I:641:ILE:CG1	6:J:545:VAL:HG11	1.21	1.60
6:U:530:ARG:CA	6:V:472:ARG:HD3	1.28	1.60
6:I:36:LEU:HD21	6:J:242:PHE:CB	1.30	1.60
6:O:412:ARG:CD	6:Q:458:THR:CA	1.79	1.60
6:P:298:PHE:CE2	6:Q:417:PHE:CA	1.84	1.60
6:O:66:ASP:HB2	6:P:232:ALA:CB	1.22	1.60
5:R:4:HIS:CD2	6:V:586:VAL:HG22	1.16	1.60
6:U:87:PHE:CG	6:W:121:ALA:CB	1.85	1.60
6:V:193:ILE:HG22	6:W:562:TYR:CZ	1.32	1.60
6:O:456:ASN:CG	6:P:412:ARG:HA	1.25	1.60
6:V:160:GLN:HE21	6:W:612:SER:CA	1.01	1.60
2:B:379:GLY:CA	3:C:798:VAL:HG12	1.28	1.59
6:J:299:ILE:HD12	6:K:419:MET:CE	1.29	1.59
6:J:457:PRO:CG	6:K:411:VAL:CG1	1.74	1.59
6:U:417:PHE:HA	6:W:298:PHE:CE2	1.31	1.59
6:U:641:ILE:CG1	6:V:545:VAL:HG11	1.22	1.59
6:V:44:THR:CB	6:W:84:LYS:CE	1.80	1.59
6:J:644:LEU:HD22	6:K:548:LYS:CE	1.27	1.59
5:M:4:HIS:CD2	6:Q:586:VAL:HG22	1.07	1.59
6:O:36:LEU:CD2	6:P:242:PHE:HB3	1.30	1.59
6:O:612:SER:CA	6:Q:160:GLN:HE21	1.01	1.59
6:P:193:ILE:HG22	6:Q:562:TYR:CZ	1.32	1.59
6:U:412:ARG:CD	6:W:458:THR:CA	1.80	1.59
6:U:412:ARG:CB	6:W:456:ASN:CG	1.75	1.59
6:U:36:LEU:HD21	6:V:242:PHE:CB	1.30	1.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:418:ASN:HA	6:W:298:PHE:CB	1.30	1.59
5:G:4:HIS:CD2	6:K:586:VAL:CG2	1.81	1.59
6:I:193:ILE:HG22	6:J:562:TYR:CE1	1.28	1.59
6:I:545:VAL:HG11	6:K:641:ILE:CG1	1.23	1.59
6:O:298:PHE:CE2	6:P:417:PHE:HA	1.16	1.59
6:P:193:ILE:C	6:Q:562:TYR:CE1	1.81	1.59
6:U:121:ALA:HB2	6:V:87:PHE:CD1	1.34	1.59
6:O:459:LEU:CB	6:P:414:GLN:HE22	1.04	1.58
6:U:630:LEU:HD13	6:V:275:GLU:CG	1.29	1.58
4:E:339:LEU:CG	6:U:55:VAL:HG11	1.18	1.58
6:U:411:VAL:HG12	6:W:457:PRO:CD	1.19	1.58
2:B:1182:ASN:HA	4:D:52:PRO:CG	1.18	1.58
5:F:44:GLY:CA	6:K:400:ALA:CA	1.77	1.58
6:J:644:LEU:CD2	6:K:548:LYS:CE	1.80	1.58
6:P:36:LEU:HD21	6:Q:242:PHE:CB	1.33	1.58
6:I:298:PHE:CE2	6:J:417:PHE:HA	1.16	1.58
6:I:417:PHE:HA	6:K:298:PHE:CE2	1.32	1.58
2:B:954:PRO:HG3	4:D:39:SER:CB	1.18	1.58
6:I:298:PHE:CZ	6:J:417:PHE:CA	1.82	1.58
6:I:411:VAL:HG12	6:K:457:PRO:CD	1.19	1.58
6:O:298:PHE:CB	6:P:418:ASN:HA	1.29	1.58
6:U:612:SER:CA	6:W:160:GLN:HE21	1.01	1.58
6:I:562:TYR:CE1	6:K:193:ILE:CG2	1.84	1.57
6:J:298:PHE:CE2	6:K:417:PHE:HA	1.33	1.57
6:U:232:ALA:CB	6:W:66:ASP:HB2	1.27	1.57
6:V:299:ILE:HD12	6:W:419:MET:CE	1.29	1.57
6:I:458:THR:CA	6:J:412:ARG:CD	1.74	1.57
6:P:458:THR:CA	6:Q:412:ARG:HD2	1.22	1.57
6:V:36:LEU:HD21	6:W:242:PHE:CB	1.33	1.57
6:V:298:PHE:CB	6:W:418:ASN:HA	1.29	1.57
6:V:458:THR:CA	6:W:412:ARG:CD	1.79	1.57
5:L:44:GLY:CA	6:Q:400:ALA:CA	1.78	1.57
5:N:4:HIS:CD2	6:O:586:VAL:CG2	1.81	1.57
6:O:193:ILE:HG22	6:P:562:TYR:CZ	1.39	1.57
6:O:530:ARG:CA	6:P:472:ARG:HD3	1.27	1.57
6:P:44:THR:CB	6:Q:84:LYS:CE	1.80	1.57
6:U:44:THR:CB	6:V:84:LYS:CE	1.82	1.57
6:U:298:PHE:CE2	6:V:417:PHE:CA	1.82	1.57
6:I:412:ARG:CD	6:K:458:THR:CA	1.80	1.57
6:I:530:ARG:CA	6:J:472:ARG:HD3	1.27	1.57
6:I:612:SER:CA	6:K:160:GLN:HE21	1.01	1.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:44:THR:CB	6:K:84:LYS:CE	1.79	1.57
6:J:298:PHE:CE2	6:K:417:PHE:CA	1.83	1.57
6:J:630:LEU:HD13	6:K:275:GLU:CG	1.34	1.57
6:J:641:ILE:HG13	6:K:545:VAL:CG1	1.24	1.57
6:O:87:PHE:CG	6:Q:121:ALA:CB	1.85	1.57
6:P:298:PHE:CB	6:Q:418:ASN:HA	1.29	1.57
6:P:458:THR:CA	6:Q:412:ARG:CD	1.78	1.57
6:P:644:LEU:CD2	6:Q:548:LYS:CE	1.80	1.57
5:T:4:HIS:CG	6:U:586:VAL:CG2	1.86	1.57
6:V:193:ILE:C	6:W:562:TYR:CE1	1.81	1.57
6:I:121:ALA:HB2	6:J:87:PHE:CD1	1.35	1.57
6:I:630:LEU:HD13	6:J:275:GLU:CG	1.29	1.57
6:J:193:ILE:C	6:K:562:TYR:CE1	1.81	1.57
6:O:641:ILE:HG13	6:P:545:VAL:CG1	1.11	1.57
6:P:160:GLN:HE21	6:Q:612:SER:CA	1.02	1.57
6:P:641:ILE:HG13	6:Q:545:VAL:CG1	1.25	1.57
6:U:87:PHE:CD1	6:W:121:ALA:HB2	1.37	1.57
6:U:193:ILE:C	6:V:562:TYR:CE1	1.82	1.57
5:F:4:HIS:CG	6:J:586:VAL:HG22	1.39	1.56
5:H:44:GLY:CA	6:J:400:ALA:CA	1.78	1.56
5:S:44:GLY:HA2	6:U:400:ALA:CA	1.35	1.56
6:U:641:ILE:HG13	6:V:545:VAL:CG1	1.11	1.56
6:I:87:PHE:CD1	6:K:121:ALA:HB2	1.38	1.56
6:I:412:ARG:CB	6:K:456:ASN:CG	1.74	1.56
6:O:193:ILE:C	6:P:562:TYR:CE1	1.81	1.56
6:U:545:VAL:HG11	6:W:641:ILE:CG1	1.23	1.56
6:V:165:THR:HG23	6:W:534:SER:CB	1.31	1.56
5:L:4:HIS:CG	6:P:586:VAL:HG22	1.39	1.56
6:O:562:TYR:CZ	6:Q:193:ILE:HG22	1.37	1.56
5:R:194:LEU:HD22	6:W:447:SER:CB	1.33	1.56
5:S:4:HIS:CD2	6:W:586:VAL:HG22	1.07	1.56
6:I:548:LYS:CE	6:K:644:LEU:HD22	1.34	1.56
6:I:641:ILE:HG13	6:J:545:VAL:CG1	1.12	1.56
6:P:66:ASP:HB2	6:Q:232:ALA:CB	1.31	1.56
6:U:562:TYR:CZ	6:W:193:ILE:HG22	1.37	1.56
6:V:298:PHE:CE2	6:W:417:PHE:CA	1.83	1.56
4:E:339:LEU:CB	6:U:55:VAL:HG11	1.11	1.56
5:G:4:HIS:CD2	6:K:586:VAL:HG22	1.06	1.56
6:I:36:LEU:CD2	6:J:242:PHE:HB3	1.29	1.56
6:I:87:PHE:CG	6:K:121:ALA:CB	1.86	1.56
6:I:545:VAL:CG1	6:K:641:ILE:HG13	1.20	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:562:TYR:CZ	6:K:193:ILE:HG22	1.36	1.56
6:U:458:THR:CA	6:V:412:ARG:CD	1.75	1.56
4:D:389:PHE:CB	6:P:54:SER:CB	1.76	1.55
6:I:66:ASP:CB	6:J:232:ALA:CB	1.81	1.55
6:I:193:ILE:CG2	6:J:562:TYR:CE1	1.84	1.55
6:I:298:PHE:CE2	6:J:417:PHE:CA	1.82	1.55
6:J:458:THR:CA	6:K:412:ARG:HD2	1.24	1.55
6:J:619:ASP:CG	6:K:284:VAL:HG11	1.32	1.55
6:O:472:ARG:HD3	6:Q:530:ARG:CA	1.34	1.55
5:R:4:HIS:CG	6:V:586:VAL:HG22	1.40	1.55
6:U:242:PHE:HB3	6:W:36:LEU:CD2	1.32	1.55
6:U:412:ARG:HA	6:W:456:ASN:CG	1.22	1.55
6:V:165:THR:CG2	6:W:534:SER:HB2	1.29	1.55
2:B:1178:ARG:CD	4:D:241:LEU:CD2	1.79	1.55
6:J:458:THR:CA	6:K:412:ARG:CD	1.80	1.55
2:B:1182:ASN:CB	4:D:52:PRO:HB2	1.10	1.55
2:B:1213:ALA:CA	3:C:552:ASP:CG	1.78	1.55
5:N:44:GLY:CA	6:P:400:ALA:HA	1.29	1.55
6:O:275:GLU:CG	6:Q:630:LEU:HD13	1.28	1.55
6:O:298:PHE:CE2	6:P:417:PHE:CA	1.80	1.55
6:O:458:THR:CA	6:P:412:ARG:CD	1.74	1.55
6:P:121:ALA:CB	6:Q:87:PHE:CG	1.89	1.55
6:U:165:THR:HG23	6:V:534:SER:CB	1.10	1.55
6:V:298:PHE:CE2	6:W:417:PHE:HA	1.34	1.55
6:I:298:PHE:CB	6:J:418:ASN:HA	1.30	1.55
5:N:44:GLY:CA	6:P:400:ALA:CA	1.79	1.55
6:O:87:PHE:CD1	6:Q:121:ALA:HB2	1.38	1.55
6:O:619:ASP:CG	6:P:284:VAL:HG11	1.27	1.55
6:P:456:ASN:CG	6:Q:412:ARG:CG	1.79	1.55
6:U:84:LYS:CE	6:W:44:THR:CB	1.81	1.55
6:U:412:ARG:HD2	6:W:458:THR:CA	1.11	1.55
6:V:121:ALA:HB2	6:W:87:PHE:CD1	1.39	1.55
6:I:44:THR:CB	6:J:84:LYS:CE	1.83	1.55
6:I:242:PHE:CB	6:K:36:LEU:HD21	1.32	1.55
6:I:456:ASN:CG	6:J:412:ARG:CB	1.78	1.55
5:N:4:HIS:CG	6:O:586:VAL:CG2	1.86	1.55
6:O:36:LEU:HD21	6:P:242:PHE:CB	1.31	1.55
6:O:66:ASP:CB	6:P:232:ALA:CB	1.81	1.55
6:P:456:ASN:CG	6:Q:412:ARG:HA	1.14	1.55
6:U:619:ASP:CG	6:V:284:VAL:HG11	1.27	1.55
6:V:456:ASN:CG	6:W:412:ARG:HA	1.14	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:121:ALA:HB2	6:K:87:PHE:CD1	1.38	1.54
6:J:298:PHE:CB	6:K:418:ASN:HA	1.29	1.54
5:L:44:GLY:CA	6:Q:400:ALA:HA	1.24	1.54
5:R:44:GLY:CA	6:W:400:ALA:CA	1.78	1.54
6:U:562:TYR:CE1	6:W:193:ILE:C	1.82	1.54
6:I:193:ILE:HG22	6:J:562:TYR:CZ	1.41	1.54
6:I:412:ARG:HD2	6:K:458:THR:CA	1.12	1.54
6:O:412:ARG:HA	6:Q:456:ASN:CG	1.23	1.54
6:P:456:ASN:CG	6:Q:412:ARG:CB	1.78	1.54
6:U:36:LEU:CD2	6:V:242:PHE:HB3	1.29	1.54
6:U:610:THR:HG22	6:W:30:ALA:CB	1.37	1.54
6:V:630:LEU:HD13	6:W:275:GLU:CG	1.34	1.54
6:I:534:SER:HB2	6:K:165:THR:CG2	1.34	1.54
6:O:548:LYS:CE	6:Q:644:LEU:HD22	1.35	1.54
6:U:193:ILE:CG2	6:V:562:TYR:CE1	1.83	1.54
6:U:545:VAL:CG1	6:W:641:ILE:HG13	1.19	1.54
6:V:121:ALA:CB	6:W:87:PHE:CG	1.88	1.54
6:V:456:ASN:CG	6:W:412:ARG:CG	1.79	1.54
4:D:389:PHE:CB	6:P:54:SER:HB2	1.28	1.54
6:I:610:THR:HG22	6:K:30:ALA:CB	1.36	1.54
6:J:36:LEU:HD21	6:K:242:PHE:CB	1.32	1.54
6:J:121:ALA:CB	6:K:87:PHE:CG	1.88	1.54
6:J:456:ASN:CG	6:K:412:ARG:CB	1.79	1.54
6:J:456:ASN:CG	6:K:412:ARG:CG	1.79	1.54
6:J:457:PRO:CD	6:K:411:VAL:HG12	1.08	1.54
6:O:242:PHE:CB	6:Q:36:LEU:HD21	1.32	1.54
6:O:417:PHE:CA	6:Q:298:PHE:CE2	1.85	1.54
6:P:641:ILE:CG1	6:Q:545:VAL:HG11	1.38	1.54
6:U:411:VAL:CG1	6:W:457:PRO:CG	1.78	1.54
2:B:380:GLU:N	3:C:798:VAL:CG1	1.70	1.54
6:I:418:ASN:HA	6:K:298:PHE:CB	1.29	1.54
6:I:472:ARG:HD3	6:K:530:ARG:CA	1.35	1.54
6:O:193:ILE:CG2	6:P:562:TYR:CE1	1.84	1.54
6:O:242:PHE:HB3	6:Q:36:LEU:CD2	1.32	1.54
6:U:284:VAL:HG11	6:W:619:ASP:CG	1.31	1.54
6:V:457:PRO:CD	6:W:411:VAL:HG12	1.07	1.54
6:J:36:LEU:CD2	6:K:242:PHE:HB3	1.34	1.53
6:V:456:ASN:CG	6:W:412:ARG:CB	1.79	1.53
2:B:952:PRO:C	4:D:35:ARG:HH21	1.15	1.53
5:F:194:LEU:HD22	6:K:447:SER:CB	1.33	1.53
5:M:194:LEU:HD22	6:O:447:SER:CB	1.37	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:456:ASN:CG	6:P:412:ARG:CB	1.78	1.53
6:U:193:ILE:HG22	6:V:562:TYR:CZ	1.40	1.53
6:U:418:ASN:CG	6:W:300:LYS:HZ1	1.09	1.53
2:B:379:GLY:CA	3:C:798:VAL:CG1	1.84	1.53
6:J:578:SER:HB3	6:K:471:LEU:CD1	1.36	1.53
5:N:4:HIS:CD2	6:O:586:VAL:HG22	1.03	1.53
6:U:30:ALA:CB	6:V:610:THR:HG22	1.37	1.53
6:V:459:LEU:CB	6:W:414:GLN:NE2	1.72	1.53
6:V:644:LEU:CD2	6:W:548:LYS:CE	1.80	1.53
2:B:376:LEU:HD13	4:D:249:LYS:CE	1.34	1.53
6:I:548:LYS:CE	6:K:644:LEU:CD2	1.86	1.53
6:I:562:TYR:CE1	6:K:193:ILE:C	1.82	1.53
6:P:298:PHE:CE2	6:Q:417:PHE:HA	1.37	1.53
6:U:66:ASP:CB	6:V:232:ALA:CB	1.82	1.53
6:U:165:THR:HG22	6:V:534:SER:CA	1.35	1.53
6:U:298:PHE:CB	6:V:418:ASN:HA	1.30	1.53
6:I:193:ILE:C	6:J:562:TYR:CE1	1.83	1.52
5:M:4:HIS:CD2	6:Q:586:VAL:CG2	1.82	1.52
6:O:412:ARG:HD2	6:Q:458:THR:CA	1.11	1.52
6:U:419:MET:CE	6:W:299:ILE:HD12	1.39	1.52
2:B:404:MET:CG	4:D:46:ILE:HD13	1.37	1.52
5:G:4:HIS:CG	6:K:586:VAL:CG2	1.85	1.52
5:H:4:HIS:CD2	6:I:586:VAL:HG22	1.03	1.52
6:I:417:PHE:CA	6:K:298:PHE:CE2	1.86	1.52
6:I:530:ARG:N	6:J:472:ARG:HD3	1.23	1.52
5:M:44:GLY:CA	6:O:400:ALA:CA	1.85	1.52
6:O:610:THR:HG22	6:Q:30:ALA:CB	1.36	1.52
6:P:147:ARG:CD	6:W:100:LYS:NZ	1.71	1.52
6:P:456:ASN:CG	6:Q:412:ARG:CA	1.81	1.52
5:S:4:HIS:CD2	6:W:586:VAL:CG2	1.82	1.52
6:U:417:PHE:CA	6:W:298:PHE:CE2	1.85	1.52
6:V:36:LEU:CD2	6:W:242:PHE:HB3	1.35	1.52
6:V:644:LEU:HD22	6:W:548:LYS:CE	1.26	1.52
2:B:1211:ARG:NH2	3:C:611:PRO:CG	1.71	1.52
6:I:414:GLN:NE2	6:K:459:LEU:CG	1.67	1.52
6:O:562:TYR:CE1	6:Q:193:ILE:C	1.83	1.52
6:U:160:GLN:NE2	6:V:612:SER:CB	1.72	1.52
2:B:1178:ARG:HD2	4:D:241:LEU:CD2	1.33	1.52
6:I:534:SER:CB	6:K:165:THR:HG23	1.19	1.52
6:J:459:LEU:CD1	6:K:414:GLN:CD	1.83	1.52
6:I:84:LYS:CE	6:K:44:THR:CB	1.81	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:160:GLN:NE2	6:J:612:SER:CB	1.73	1.52
6:I:232:ALA:CB	6:K:66:ASP:CB	1.85	1.52
5:L:194:LEU:HD22	6:Q:447:SER:CB	1.33	1.52
6:O:44:THR:CB	6:P:84:LYS:CE	1.83	1.52
6:O:472:ARG:CD	6:Q:530:ARG:HA	1.39	1.52
5:T:194:LEU:HD22	6:V:447:SER:CB	1.36	1.52
6:U:242:PHE:CB	6:W:36:LEU:HD21	1.32	1.52
6:U:548:LYS:CE	6:W:644:LEU:CD2	1.86	1.52
5:G:194:LEU:HD22	6:I:447:SER:CB	1.36	1.51
6:I:284:VAL:HG11	6:K:619:ASP:CG	1.31	1.51
6:J:30:ALA:CB	6:K:610:THR:HG22	1.39	1.51
6:O:412:ARG:CB	6:Q:456:ASN:CG	1.75	1.51
6:P:619:ASP:CG	6:Q:284:VAL:HG11	1.32	1.51
5:S:194:LEU:HD22	6:U:447:SER:CB	1.37	1.51
6:U:644:LEU:CB	6:V:548:LYS:HE3	1.40	1.51
6:V:66:ASP:HB2	6:W:232:ALA:CB	1.30	1.51
6:I:299:ILE:HD12	6:J:419:MET:CE	1.38	1.51
6:I:416:ARG:C	6:K:298:PHE:CZ	1.89	1.51
6:O:160:GLN:NE2	6:P:612:SER:CB	1.72	1.51
5:T:4:HIS:CD2	6:U:586:VAL:HG22	1.01	1.51
6:U:414:GLN:NE2	6:W:459:LEU:CG	1.67	1.51
6:U:530:ARG:HA	6:V:472:ARG:CD	1.38	1.51
6:V:578:SER:HB3	6:W:471:LEU:CD1	1.36	1.51
5:F:44:GLY:CA	6:K:400:ALA:HA	1.23	1.51
5:G:44:GLY:HA2	6:I:400:ALA:CA	1.36	1.51
6:I:459:LEU:CG	6:J:414:GLN:NE2	1.72	1.51
6:J:298:PHE:CZ	6:K:416:ARG:C	1.88	1.51
6:O:284:VAL:HG11	6:Q:619:ASP:CG	1.32	1.51
6:P:147:ARG:NE	6:W:100:LYS:CE	1.74	1.51
6:U:548:LYS:CE	6:W:644:LEU:HD22	1.33	1.51
5:G:44:GLY:CA	6:I:400:ALA:CA	1.85	1.51
6:I:459:LEU:CB	6:J:414:GLN:NE2	1.72	1.51
6:J:456:ASN:CG	6:K:412:ARG:HA	1.14	1.51
5:M:44:GLY:HA2	6:O:400:ALA:CA	1.35	1.51
6:O:416:ARG:C	6:Q:298:PHE:CZ	1.89	1.51
6:P:121:ALA:HB2	6:Q:87:PHE:CD1	1.40	1.51
2:B:952:PRO:C	4:D:35:ARG:CD	1.84	1.51
4:E:401:ALA:CA	6:U:52:GLY:HA2	1.40	1.51
6:I:472:ARG:CD	6:K:530:ARG:N	1.74	1.51
6:I:534:SER:CA	6:K:165:THR:HG22	1.39	1.51
6:I:644:LEU:CB	6:J:548:LYS:HE3	1.39	1.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:459:LEU:CG	6:P:414:GLN:NE2	1.72	1.51
6:O:548:LYS:CE	6:Q:644:LEU:CD2	1.86	1.51
6:O:612:SER:CB	6:Q:160:GLN:NE2	1.72	1.51
6:V:459:LEU:CD1	6:W:414:GLN:CD	1.83	1.51
4:D:389:PHE:CA	6:P:55:VAL:N	1.73	1.50
5:N:194:LEU:HD22	6:P:447:SER:CB	1.37	1.50
6:O:30:ALA:CB	6:P:610:THR:HG22	1.36	1.50
6:O:459:LEU:HB3	6:P:414:GLN:NE2	1.20	1.50
6:O:530:ARG:N	6:P:472:ARG:CD	1.74	1.50
6:U:232:ALA:CB	6:W:66:ASP:CB	1.86	1.50
6:U:456:ASN:CG	6:V:412:ARG:CB	1.78	1.50
6:V:298:PHE:CZ	6:W:417:PHE:N	1.78	1.50
4:D:389:PHE:HA	6:P:54:SER:C	1.24	1.50
4:E:339:LEU:CB	6:U:55:VAL:CG1	1.89	1.50
6:I:30:ALA:CB	6:J:610:THR:HG22	1.36	1.50
6:I:298:PHE:CZ	6:J:416:ARG:C	1.88	1.50
6:I:419:MET:CE	6:K:299:ILE:HD12	1.39	1.50
6:J:528:ALA:HB1	6:K:283:SER:CA	1.37	1.50
6:P:36:LEU:CD2	6:Q:242:PHE:HB3	1.35	1.50
6:U:412:ARG:CG	6:W:456:ASN:CG	1.81	1.50
6:U:416:ARG:C	6:W:298:PHE:CZ	1.88	1.50
4:D:389:PHE:CA	6:P:54:SER:CA	1.83	1.50
2:B:1178:ARG:CG	4:D:241:LEU:HD22	1.38	1.50
6:I:612:SER:CB	6:K:160:GLN:NE2	1.73	1.50
6:I:619:ASP:CG	6:J:284:VAL:HG11	1.27	1.50
5:N:44:GLY:HA2	6:P:400:ALA:CA	1.38	1.50
6:O:530:ARG:HA	6:P:472:ARG:CD	1.38	1.50
6:O:612:SER:CB	6:Q:160:GLN:CD	1.85	1.50
4:D:392:ALA:CB	6:P:49:ARG:NE	1.72	1.50
6:I:459:LEU:HD23	6:J:412:ARG:NH2	1.22	1.50
6:J:641:ILE:CG1	6:K:545:VAL:HG11	1.38	1.50
6:O:84:LYS:CE	6:Q:44:THR:CB	1.81	1.50
6:P:298:PHE:CZ	6:Q:416:ARG:C	1.88	1.50
6:P:630:LEU:HD13	6:Q:275:GLU:CG	1.35	1.50
6:V:528:ALA:HB1	6:W:283:SER:CA	1.36	1.50
6:I:412:ARG:CA	6:K:456:ASN:CG	1.84	1.50
6:I:530:ARG:HA	6:J:472:ARG:CD	1.38	1.50
6:O:232:ALA:CB	6:Q:66:ASP:CB	1.86	1.50
6:O:295:ARG:NH1	6:P:419:MET:HB3	1.18	1.50
6:P:528:ALA:HB1	6:Q:283:SER:CA	1.36	1.50
6:U:298:PHE:CZ	6:V:416:ARG:C	1.88	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:414:GLN:NE2	6:K:459:LEU:HB3	1.24	1.49
6:O:456:ASN:CG	6:P:412:ARG:CG	1.82	1.49
6:U:472:ARG:CD	6:W:530:ARG:HA	1.41	1.49
6:I:242:PHE:HB3	6:K:36:LEU:CD2	1.32	1.49
6:I:471:LEU:CD1	6:K:578:SER:HB3	1.42	1.49
6:J:459:LEU:CB	6:K:414:GLN:NE2	1.73	1.49
5:H:44:GLY:CA	6:J:400:ALA:HA	1.29	1.49
6:I:44:THR:CB	6:J:84:LYS:NZ	1.75	1.49
6:I:84:LYS:NZ	6:K:44:THR:CB	1.75	1.49
6:J:459:LEU:CG	6:K:414:GLN:NE2	1.72	1.49
6:O:419:MET:CE	6:Q:299:ILE:HD12	1.39	1.49
6:O:456:ASN:CG	6:P:412:ARG:CA	1.85	1.49
6:O:644:LEU:CB	6:P:548:LYS:HE3	1.39	1.49
6:P:459:LEU:CG	6:Q:414:GLN:NE2	1.72	1.49
5:S:44:GLY:CA	6:U:400:ALA:CA	1.85	1.49
6:U:44:THR:CB	6:V:84:LYS:NZ	1.74	1.49
6:I:414:GLN:NE2	6:K:459:LEU:CB	1.74	1.49
6:J:298:PHE:CZ	6:K:417:PHE:N	1.79	1.49
6:O:534:SER:CA	6:Q:165:THR:HG22	1.39	1.49
6:P:147:ARG:CZ	6:W:100:LYS:HD2	1.42	1.49
6:P:459:LEU:CD1	6:Q:414:GLN:CD	1.84	1.49
6:P:530:ARG:N	6:Q:472:ARG:CD	1.73	1.49
5:S:44:GLY:CA	6:U:400:ALA:HA	1.40	1.49
6:U:612:SER:CB	6:W:160:GLN:NE2	1.72	1.49
6:X:587:GLY:C	5:Y:2:PRO:HG2	1.34	1.49
2:B:1182:ASN:N	4:D:52:PRO:CG	1.75	1.49
3:C:314:SER:CA	3:C:1196:ARG:HG2	1.40	1.49
6:J:160:GLN:NE2	6:K:612:SER:CB	1.73	1.49
6:J:456:ASN:CG	6:K:412:ARG:CA	1.82	1.49
6:O:419:MET:HB3	6:Q:295:ARG:NH1	1.21	1.49
6:P:459:LEU:CB	6:Q:414:GLN:NE2	1.73	1.49
6:U:299:ILE:HD12	6:V:419:MET:CE	1.38	1.49
6:U:472:ARG:HD3	6:W:530:ARG:CA	1.37	1.49
2:B:408:SER:CB	4:D:191:ARG:NH2	1.73	1.48
6:I:418:ASN:CG	6:K:300:LYS:HZ1	1.12	1.48
6:I:456:ASN:CG	6:J:412:ARG:HA	1.24	1.48
6:I:459:LEU:HB3	6:J:414:GLN:NE2	1.20	1.48
6:I:612:SER:CB	6:K:160:GLN:CD	1.86	1.48
6:I:644:LEU:CD2	6:J:548:LYS:CE	1.87	1.48
5:M:44:GLY:CA	6:O:400:ALA:HA	1.40	1.48
6:O:528:ALA:HB1	6:P:283:SER:CA	1.43	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:644:LEU:CD2	6:P:548:LYS:CE	1.87	1.48
6:U:456:ASN:CG	6:V:412:ARG:HA	1.26	1.48
6:U:644:LEU:HD22	6:V:548:LYS:CE	1.43	1.48
6:U:644:LEU:CD2	6:V:548:LYS:CE	1.88	1.48
6:V:641:ILE:CG1	6:W:545:VAL:HG11	1.36	1.48
6:I:412:ARG:CG	6:K:456:ASN:CG	1.80	1.48
6:I:417:PHE:N	6:K:298:PHE:CZ	1.79	1.48
6:I:472:ARG:CD	6:K:530:ARG:HA	1.38	1.48
6:O:412:ARG:CA	6:Q:456:ASN:CG	1.85	1.48
6:P:147:ARG:CZ	6:W:100:LYS:CD	1.88	1.48
6:U:417:PHE:N	6:W:298:PHE:CZ	1.79	1.48
6:U:472:ARG:CD	6:W:530:ARG:N	1.74	1.48
6:U:612:SER:CB	6:W:160:GLN:CD	1.85	1.48
6:V:160:GLN:NE2	6:W:612:SER:CB	1.73	1.48
6:V:619:ASP:CG	6:W:284:VAL:HG11	1.32	1.48
6:I:530:ARG:N	6:J:472:ARG:CD	1.73	1.48
6:J:298:PHE:CD2	6:K:418:ASN:N	1.82	1.48
6:O:412:ARG:CG	6:Q:456:ASN:CG	1.81	1.48
6:O:578:SER:HB3	6:P:471:LEU:CD1	1.43	1.48
6:P:160:GLN:NE2	6:Q:612:SER:CB	1.73	1.48
6:P:298:PHE:CD2	6:Q:418:ASN:N	1.81	1.48
6:P:459:LEU:CG	6:Q:414:GLN:CD	1.87	1.48
6:U:160:GLN:CD	6:V:612:SER:CB	1.86	1.48
6:V:298:PHE:CZ	6:W:416:ARG:C	1.87	1.48
6:V:456:ASN:CG	6:W:412:ARG:CA	1.82	1.48
2:B:379:GLY:C	3:C:798:VAL:CG1	1.87	1.48
6:I:66:ASP:CG	6:J:232:ALA:CB	1.87	1.48
6:I:160:GLN:CD	6:J:612:SER:CB	1.86	1.48
6:J:44:THR:CB	6:K:84:LYS:NZ	1.76	1.48
6:P:147:ARG:CZ	6:W:100:LYS:CE	1.90	1.48
6:U:414:GLN:NE2	6:W:459:LEU:HB3	1.23	1.48
6:V:459:LEU:CG	6:W:414:GLN:NE2	1.72	1.48
4:D:389:PHE:CA	6:P:54:SER:C	1.85	1.48
6:I:456:ASN:CG	6:J:412:ARG:CA	1.84	1.48
6:O:66:ASP:CG	6:P:232:ALA:CB	1.86	1.48
6:O:84:LYS:NZ	6:Q:44:THR:CB	1.75	1.48
6:O:299:ILE:HD12	6:P:419:MET:CE	1.39	1.48
6:P:30:ALA:CB	6:Q:610:THR:HG22	1.40	1.48
5:S:4:HIS:CG	6:W:586:VAL:CG2	1.86	1.48
6:V:165:THR:HG22	6:W:534:SER:CA	1.44	1.48
2:B:376:LEU:CD1	4:D:249:LYS:HE2	1.43	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:956:HIS:NE2	4:D:43:HIS:CE1	1.79	1.47
6:I:121:ALA:HB2	6:J:87:PHE:CG	1.40	1.47
6:I:412:ARG:HA	6:K:456:ASN:CG	1.21	1.47
5:N:4:HIS:CE1	6:O:587:GLY:N	1.82	1.47
6:O:44:THR:CB	6:P:84:LYS:NZ	1.75	1.47
6:P:160:GLN:CD	6:Q:612:SER:CB	1.85	1.47
6:P:578:SER:HB3	6:Q:471:LEU:CD1	1.37	1.47
6:U:456:ASN:CG	6:V:412:ARG:CG	1.82	1.47
6:U:530:ARG:N	6:V:472:ARG:CD	1.73	1.47
6:V:160:GLN:CD	6:W:612:SER:CB	1.85	1.47
6:V:459:LEU:CG	6:W:414:GLN:CD	1.86	1.47
5:H:4:HIS:CE1	6:I:587:GLY:N	1.83	1.47
6:I:283:SER:CA	6:K:528:ALA:HB1	1.44	1.47
6:J:644:LEU:CB	6:K:548:LYS:HE3	1.44	1.47
6:P:298:PHE:CZ	6:Q:417:PHE:N	1.78	1.47
6:U:528:ALA:HB1	6:V:283:SER:CA	1.43	1.47
3:C:715:VAL:CG2	3:C:726:ARG:NE	1.74	1.47
6:I:456:ASN:CG	6:J:412:ARG:CG	1.82	1.47
6:I:578:SER:HB3	6:J:471:LEU:CD1	1.44	1.47
6:O:472:ARG:CD	6:Q:530:ARG:N	1.74	1.47
6:U:44:THR:CB	6:V:84:LYS:HE3	1.41	1.47
6:U:414:GLN:NE2	6:W:459:LEU:CB	1.74	1.47
6:U:458:THR:CA	6:V:412:ARG:HD2	1.01	1.47
6:I:562:TYR:CZ	6:K:193:ILE:CG2	1.95	1.47
6:J:457:PRO:CG	6:K:411:VAL:HG11	1.36	1.47
6:J:530:ARG:N	6:K:472:ARG:CD	1.74	1.47
6:O:160:GLN:CD	6:P:612:SER:CB	1.86	1.47
6:U:84:LYS:NZ	6:W:44:THR:CB	1.75	1.47
6:U:283:SER:CA	6:W:528:ALA:HB1	1.43	1.47
6:U:412:ARG:CA	6:W:456:ASN:CG	1.84	1.47
6:V:44:THR:CB	6:W:84:LYS:HE3	1.36	1.47
2:B:404:MET:HG2	4:D:46:ILE:CD1	1.45	1.47
5:F:4:HIS:CD2	6:J:586:VAL:CG2	1.96	1.47
6:O:417:PHE:N	6:Q:298:PHE:CZ	1.79	1.47
6:O:471:LEU:CD1	6:Q:578:SER:HB3	1.41	1.47
6:U:300:LYS:HZ1	6:V:418:ASN:CG	1.20	1.47
6:V:44:THR:HB	6:W:84:LYS:NZ	1.28	1.47
6:I:147:ARG:CG	6:Q:100:LYS:HD3	1.40	1.46
6:J:160:GLN:CD	6:K:612:SER:CB	1.85	1.46
6:J:298:PHE:CZ	6:K:417:PHE:CA	1.98	1.46
5:L:4:HIS:CD2	6:P:586:VAL:CG2	1.96	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:4:HIS:CE1	6:U:587:GLY:N	1.84	1.46
6:V:298:PHE:CD2	6:W:418:ASN:N	1.82	1.46
6:O:193:ILE:CG2	6:P:562:TYR:CZ	1.96	1.46
6:P:298:PHE:HZ	6:Q:417:PHE:N	1.09	1.46
5:S:4:HIS:CE1	6:W:587:GLY:N	1.83	1.46
6:V:66:ASP:CB	6:W:232:ALA:CB	1.91	1.46
6:V:619:ASP:HB2	6:W:284:VAL:CG2	1.45	1.46
5:G:4:HIS:CE1	6:K:587:GLY:N	1.84	1.46
6:I:298:PHE:CZ	6:J:417:PHE:N	1.78	1.46
6:O:458:THR:CA	6:P:412:ARG:HD2	1.00	1.46
6:O:472:ARG:HD3	6:Q:530:ARG:N	1.29	1.46
6:U:548:LYS:HE3	6:W:644:LEU:CB	1.44	1.46
5:H:194:LEU:HD22	6:J:447:SER:CB	1.38	1.46
6:I:298:PHE:CD2	6:J:418:ASN:N	1.81	1.46
6:O:66:ASP:CG	6:P:232:ALA:HB3	1.40	1.46
6:P:44:THR:HB	6:Q:84:LYS:NZ	1.29	1.46
6:U:298:PHE:CD2	6:V:418:ASN:N	1.81	1.46
6:P:459:LEU:CD2	6:Q:414:GLN:CD	1.89	1.46
6:V:30:ALA:CB	6:W:610:THR:HG22	1.39	1.46
6:V:459:LEU:CD2	6:W:414:GLN:CD	1.89	1.46
2:B:954:PRO:CD	4:D:39:SER:CB	1.92	1.45
6:I:300:LYS:HZ1	6:J:418:ASN:CG	1.21	1.45
6:O:298:PHE:HB3	6:P:418:ASN:CA	1.45	1.45
6:P:44:THR:CB	6:Q:84:LYS:NZ	1.76	1.45
6:U:284:VAL:CG2	6:W:619:ASP:HB2	1.45	1.45
6:U:456:ASN:CG	6:V:412:ARG:CA	1.85	1.45
6:U:578:SER:HB3	6:V:471:LEU:CD1	1.43	1.45
6:V:298:PHE:CZ	6:W:417:PHE:CA	1.98	1.45
5:H:44:GLY:HA2	6:J:400:ALA:CA	1.36	1.45
6:I:147:ARG:CD	6:Q:100:LYS:NZ	1.75	1.45
6:P:66:ASP:CB	6:Q:232:ALA:CB	1.92	1.45
6:V:530:ARG:N	6:W:472:ARG:CD	1.74	1.45
6:J:165:THR:HG22	6:K:534:SER:CA	1.44	1.45
6:O:298:PHE:CD2	6:P:418:ASN:N	1.82	1.45
6:U:412:ARG:CD	6:W:458:THR:N	1.78	1.45
6:V:619:ASP:CG	6:W:284:VAL:CG1	1.90	1.45
5:G:44:GLY:CA	6:I:400:ALA:HA	1.38	1.45
6:I:458:THR:CA	6:J:412:ARG:HD2	0.99	1.45
6:O:548:LYS:HE3	6:Q:644:LEU:CB	1.43	1.45
6:O:644:LEU:CD2	6:P:548:LYS:NZ	1.80	1.45
6:U:418:ASN:N	6:W:298:PHE:CD2	1.82	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:419:MET:HB3	6:W:295:ARG:NH1	1.19	1.45
6:U:471:LEU:CD1	6:W:578:SER:HB3	1.43	1.45
2:B:1213:ALA:CB	3:C:552:ASP:CG	1.87	1.45
6:J:44:THR:CB	6:K:84:LYS:HE3	1.35	1.45
6:J:66:ASP:CB	6:K:232:ALA:CB	1.91	1.45
6:O:284:VAL:CG1	6:Q:619:ASP:CG	1.88	1.45
6:U:66:ASP:CG	6:V:232:ALA:HB3	1.41	1.45
6:U:121:ALA:HB2	6:V:87:PHE:CG	1.41	1.45
6:U:284:VAL:CG1	6:W:619:ASP:CG	1.89	1.45
6:U:417:PHE:CA	6:W:298:PHE:CZ	2.00	1.45
6:I:418:ASN:N	6:K:298:PHE:CD2	1.83	1.44
6:J:165:THR:HG23	6:K:534:SER:CB	1.29	1.44
6:J:459:LEU:CG	6:K:414:GLN:CD	1.86	1.44
6:J:459:LEU:HA	6:K:412:ARG:NH1	1.32	1.44
6:J:459:LEU:CD2	6:K:414:GLN:CD	1.89	1.44
5:M:4:HIS:CE1	6:Q:587:GLY:N	1.83	1.44
6:U:66:ASP:CG	6:V:232:ALA:CB	1.87	1.44
6:U:414:GLN:CD	6:W:459:LEU:CD1	1.88	1.44
6:I:232:ALA:HB3	6:K:66:ASP:CG	1.40	1.44
6:I:528:ALA:HB1	6:J:283:SER:CA	1.43	1.44
6:I:548:LYS:HE3	6:K:644:LEU:CB	1.43	1.44
5:L:44:GLY:HA2	6:Q:400:ALA:C	1.42	1.44
6:O:232:ALA:HB3	6:Q:66:ASP:CG	1.40	1.44
6:O:283:SER:CA	6:Q:528:ALA:HB1	1.44	1.44
6:O:459:LEU:CD1	6:P:414:GLN:CD	1.91	1.44
6:P:160:GLN:CG	6:Q:612:SER:CB	1.94	1.44
6:U:418:ASN:ND2	6:W:300:LYS:HZ1	1.05	1.44
6:V:457:PRO:CG	6:W:411:VAL:HG11	1.35	1.44
2:B:376:LEU:HD13	4:D:249:LYS:CD	1.41	1.44
2:B:376:LEU:CD1	4:D:249:LYS:CE	1.94	1.44
2:B:954:PRO:CG	4:D:39:SER:HB2	1.38	1.44
4:D:392:ALA:H	6:P:49:ARG:NH2	1.07	1.44
6:I:414:GLN:CD	6:K:459:LEU:CD1	1.88	1.44
6:I:417:PHE:CA	6:K:298:PHE:CZ	2.00	1.44
6:O:298:PHE:CZ	6:P:417:PHE:N	1.77	1.44
6:P:66:ASP:CG	6:Q:232:ALA:HB3	1.43	1.44
6:P:193:ILE:CG2	6:Q:562:TYR:CZ	1.90	1.44
6:U:160:GLN:CD	6:V:612:SER:HB2	1.43	1.44
6:U:298:PHE:CZ	6:V:417:PHE:N	1.78	1.44
6:U:459:LEU:CG	6:V:414:GLN:NE2	1.73	1.44
2:B:310:LYS:N	2:B:399:ARG:HH11	1.13	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:456:ASN:CG	6:J:412:ARG:HG3	1.41	1.44
6:O:418:ASN:CA	6:Q:298:PHE:HB3	1.47	1.44
6:O:562:TYR:CZ	6:Q:193:ILE:CG2	1.94	1.44
6:J:160:GLN:CD	6:K:612:SER:HB2	1.42	1.44
6:O:417:PHE:CA	6:Q:298:PHE:CZ	1.99	1.44
6:P:160:GLN:CG	6:Q:612:SER:OG	1.66	1.44
6:U:300:LYS:HZ1	6:V:418:ASN:ND2	1.12	1.44
6:U:412:ARG:NH2	6:W:459:LEU:HD23	1.31	1.44
6:U:459:LEU:CD1	6:V:414:GLN:CD	1.90	1.44
6:V:160:GLN:CG	6:W:612:SER:CB	1.95	1.44
2:B:1181:THR:C	4:D:52:PRO:CG	1.91	1.43
6:J:193:ILE:CG2	6:K:562:TYR:CZ	1.90	1.43
6:O:193:ILE:CA	6:P:562:TYR:HE1	1.32	1.43
6:O:418:ASN:N	6:Q:298:PHE:CD2	1.82	1.43
6:O:459:LEU:CD1	6:P:414:GLN:OE1	1.66	1.43
6:O:534:SER:HB2	6:Q:165:THR:CG2	1.34	1.43
6:O:619:ASP:HB2	6:P:284:VAL:CG2	1.47	1.43
6:P:619:ASP:CG	6:Q:284:VAL:CG1	1.90	1.43
2:B:1178:ARG:CD	4:D:241:LEU:HD22	1.39	1.43
6:I:412:ARG:NH2	6:K:459:LEU:HD23	1.30	1.43
6:I:459:LEU:CD1	6:J:414:GLN:CD	1.91	1.43
6:O:412:ARG:HG3	6:Q:456:ASN:CG	1.36	1.43
6:O:459:LEU:CG	6:P:414:GLN:HE22	1.26	1.43
6:O:644:LEU:HD22	6:P:548:LYS:NZ	1.12	1.43
6:P:530:ARG:CA	6:Q:472:ARG:HD3	1.47	1.43
6:P:619:ASP:HB2	6:Q:284:VAL:CG2	1.46	1.43
5:R:4:HIS:CD2	6:V:586:VAL:CG2	1.96	1.43
6:U:298:PHE:CE2	6:V:416:ARG:O	1.72	1.43
6:V:193:ILE:CA	6:W:562:TYR:HE1	1.30	1.43
6:V:644:LEU:CB	6:W:548:LYS:HE3	1.45	1.43
2:B:1211:ARG:NH2	3:C:611:PRO:CB	1.78	1.43
5:M:4:HIS:CG	6:Q:586:VAL:CG2	1.86	1.43
6:O:612:SER:CB	6:Q:160:GLN:CG	1.95	1.43
6:P:298:PHE:CZ	6:Q:417:PHE:CA	1.99	1.43
6:U:619:ASP:CG	6:V:284:VAL:CG1	1.88	1.43
6:V:298:PHE:CE2	6:W:417:PHE:C	1.94	1.43
5:H:4:HIS:CG	6:I:586:VAL:CG2	1.86	1.43
6:U:232:ALA:HB3	6:W:66:ASP:CG	1.41	1.43
6:U:418:ASN:CA	6:W:298:PHE:HB3	1.47	1.43
6:I:284:VAL:CG2	6:K:619:ASP:HB2	1.46	1.43
6:I:298:PHE:HB3	6:J:418:ASN:CA	1.45	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:418:ASN:CA	6:K:298:PHE:HB3	1.47	1.43
6:J:165:THR:CG2	6:K:534:SER:HB2	1.29	1.43
6:J:619:ASP:HB2	6:K:284:VAL:CG2	1.47	1.43
6:U:193:ILE:CG2	6:V:562:TYR:CZ	1.96	1.43
6:U:562:TYR:CZ	6:W:193:ILE:CG2	1.95	1.43
6:V:66:ASP:CG	6:W:232:ALA:HB3	1.43	1.43
6:V:644:LEU:CD2	6:W:548:LYS:NZ	1.79	1.43
4:D:392:ALA:HB2	6:P:49:ARG:NE	1.13	1.42
6:I:418:ASN:ND2	6:K:300:LYS:HZ1	1.13	1.42
6:O:459:LEU:CG	6:P:412:ARG:HB2	1.49	1.42
6:I:459:LEU:CD1	6:J:414:GLN:OE1	1.66	1.42
5:L:44:GLY:HA2	6:Q:400:ALA:CA	1.42	1.42
6:O:284:VAL:CG2	6:Q:619:ASP:HB2	1.45	1.42
6:O:459:LEU:HA	6:P:412:ARG:NH1	1.23	1.42
6:P:644:LEU:CB	6:Q:548:LYS:HE3	1.46	1.42
6:U:459:LEU:HA	6:V:412:ARG:NH1	1.24	1.42
6:U:612:SER:CB	6:W:160:GLN:CG	1.96	1.42
6:I:298:PHE:CE2	6:J:416:ARG:O	1.73	1.42
6:J:530:ARG:CA	6:K:472:ARG:HD3	1.47	1.42
6:J:619:ASP:CG	6:K:284:VAL:CG1	1.89	1.42
6:P:456:ASN:OD1	6:Q:412:ARG:CB	1.65	1.42
6:U:298:PHE:HB3	6:V:418:ASN:CA	1.47	1.42
6:V:295:ARG:NH1	6:W:419:MET:HB3	1.13	1.42
6:I:300:LYS:HZ1	6:J:418:ASN:ND2	1.12	1.42
6:I:612:SER:OG	6:K:160:GLN:CG	1.66	1.42
6:O:619:ASP:CG	6:P:284:VAL:CG1	1.89	1.42
6:U:160:GLN:HE21	6:V:612:SER:CB	1.30	1.42
6:U:295:ARG:NH1	6:V:419:MET:HB3	1.18	1.42
6:U:414:GLN:OE1	6:W:459:LEU:CD1	1.68	1.42
6:U:612:SER:HB2	6:W:160:GLN:CD	1.42	1.42
2:B:1182:ASN:HA	4:D:52:PRO:CB	1.39	1.42
6:I:419:MET:HB3	6:K:295:ARG:NH1	1.21	1.42
6:O:459:LEU:HD23	6:P:412:ARG:NH2	1.21	1.42
6:U:459:LEU:CD2	6:V:414:GLN:OE1	1.68	1.42
6:V:530:ARG:CA	6:W:472:ARG:HD3	1.50	1.42
6:O:160:GLN:CG	6:P:612:SER:OG	1.66	1.41
6:U:412:ARG:CB	6:W:456:ASN:OD1	1.65	1.41
6:U:412:ARG:HB2	6:W:459:LEU:CG	1.50	1.41
6:U:459:LEU:HD23	6:V:412:ARG:NH2	1.22	1.41
6:U:612:SER:CB	6:W:160:GLN:HE21	1.30	1.41
6:V:459:LEU:CD1	6:W:414:GLN:OE1	1.67	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:379:VAL:CG1	6:I:60:SER:OG	1.68	1.41
6:I:619:ASP:HB2	6:J:284:VAL:CG2	1.47	1.41
6:J:66:ASP:CG	6:K:232:ALA:HB3	1.43	1.41
6:J:160:GLN:CG	6:K:612:SER:CB	1.96	1.41
6:O:412:ARG:NH2	6:Q:459:LEU:HD23	1.31	1.41
6:O:612:SER:OG	6:Q:160:GLN:CG	1.66	1.41
6:P:530:ARG:N	6:Q:472:ARG:HD3	1.32	1.41
6:U:232:ALA:CB	6:W:66:ASP:CG	1.90	1.41
6:V:160:GLN:CG	6:W:612:SER:OG	1.66	1.41
2:B:1182:ASN:CA	4:D:52:PRO:HG2	1.43	1.41
6:O:412:ARG:CA	6:Q:456:ASN:ND2	1.82	1.41
6:U:84:LYS:HE3	6:W:44:THR:CB	1.40	1.41
6:U:417:PHE:N	6:W:298:PHE:HZ	1.13	1.41
6:I:87:PHE:CG	6:K:121:ALA:HB2	1.47	1.41
6:I:193:ILE:CG2	6:J:562:TYR:CZ	1.97	1.41
6:I:644:LEU:HD22	6:J:548:LYS:CE	1.41	1.41
6:O:84:LYS:HE3	6:Q:44:THR:CB	1.39	1.41
6:O:298:PHE:CE2	6:P:416:ARG:O	1.72	1.41
6:P:44:THR:CB	6:Q:84:LYS:HE3	1.35	1.41
6:P:298:PHE:CE2	6:Q:417:PHE:C	1.94	1.41
6:P:459:LEU:HA	6:Q:412:ARG:NH1	1.32	1.41
6:U:412:ARG:CA	6:W:456:ASN:ND2	1.82	1.41
6:U:530:ARG:N	6:V:472:ARG:HD3	1.23	1.41
6:I:32:PRO:O	6:J:613:LEU:CD2	1.69	1.41
6:I:284:VAL:CG1	6:K:619:ASP:CG	1.89	1.41
6:J:295:ARG:NH1	6:K:419:MET:HB3	1.13	1.41
6:P:32:PRO:O	6:Q:613:LEU:CD2	1.69	1.41
6:U:417:PHE:C	6:W:298:PHE:CE2	1.99	1.41
6:V:298:PHE:CE2	6:W:416:ARG:O	1.72	1.41
6:V:458:THR:N	6:W:412:ARG:CD	1.73	1.41
6:I:84:LYS:HE3	6:K:44:THR:CB	1.39	1.40
6:I:459:LEU:CG	6:J:412:ARG:HB2	1.48	1.40
6:I:459:LEU:HA	6:J:412:ARG:NH1	1.23	1.40
6:I:619:ASP:CG	6:J:284:VAL:CG1	1.89	1.40
6:O:160:GLN:CD	6:P:612:SER:HB2	1.43	1.40
6:O:459:LEU:CA	6:P:412:ARG:CZ	1.99	1.40
5:R:44:GLY:HA2	6:W:400:ALA:C	1.42	1.40
6:U:612:SER:OG	6:W:160:GLN:CG	1.67	1.40
6:U:613:LEU:CD2	6:W:32:PRO:O	1.69	1.40
6:V:456:ASN:CG	6:W:412:ARG:HG3	1.38	1.40
6:V:459:LEU:CG	6:W:412:ARG:HB2	1.50	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:160:GLN:CG	6:J:612:SER:OG	1.66	1.40
6:I:459:LEU:CA	6:J:412:ARG:CZ	2.00	1.40
6:J:193:ILE:CA	6:K:562:TYR:HE1	1.30	1.40
6:P:295:ARG:NH1	6:Q:419:MET:HB3	1.12	1.40
6:U:160:GLN:CG	6:V:612:SER:OG	1.66	1.40
6:U:619:ASP:HB2	6:V:284:VAL:CG2	1.46	1.40
6:U:641:ILE:CG1	6:V:545:VAL:CG1	1.85	1.40
4:D:389:PHE:O	6:P:55:VAL:CB	1.67	1.40
6:I:232:ALA:CB	6:K:66:ASP:CG	1.91	1.40
6:I:414:GLN:OE1	6:K:459:LEU:CD1	1.68	1.40
6:I:612:SER:CB	6:K:160:GLN:CG	1.97	1.40
6:J:298:PHE:CE2	6:K:417:PHE:C	1.95	1.40
6:J:530:ARG:HA	6:K:472:ARG:CD	1.50	1.40
6:O:298:PHE:CZ	6:P:416:ARG:C	1.96	1.40
6:V:32:PRO:O	6:W:613:LEU:CD2	1.68	1.40
6:V:193:ILE:CG2	6:W:562:TYR:CZ	1.90	1.40
5:F:44:GLY:HA2	6:K:400:ALA:C	1.41	1.40
6:I:193:ILE:CA	6:J:562:TYR:HE1	1.33	1.40
6:I:295:ARG:NH1	6:J:419:MET:HB3	1.17	1.40
6:O:160:GLN:HE21	6:P:612:SER:CB	1.30	1.40
6:O:300:LYS:HZ1	6:P:418:ASN:CG	1.26	1.40
6:P:193:ILE:CA	6:Q:562:TYR:HE1	1.32	1.40
6:U:459:LEU:CD1	6:V:414:GLN:OE1	1.66	1.40
6:I:44:THR:CB	6:J:84:LYS:HE3	1.42	1.40
6:I:412:ARG:NH1	6:K:459:LEU:HA	1.36	1.40
6:O:412:ARG:NH1	6:Q:459:LEU:HA	1.37	1.40
6:V:456:ASN:OD1	6:W:412:ARG:CB	1.65	1.40
6:V:459:LEU:HA	6:W:412:ARG:NH1	1.31	1.40
2:B:882:PRO:CG	2:B:962:GLN:HE22	1.33	1.39
6:I:412:ARG:HB2	6:K:459:LEU:CG	1.50	1.39
6:I:644:LEU:HD22	6:J:548:LYS:NZ	1.10	1.39
6:J:459:LEU:CG	6:K:412:ARG:HB2	1.49	1.39
6:J:459:LEU:CD2	6:K:414:GLN:OE1	1.68	1.39
6:J:459:LEU:HD13	6:K:414:GLN:CD	1.43	1.39
6:O:612:SER:CB	6:Q:160:GLN:HE21	1.30	1.39
6:P:459:LEU:CG	6:Q:412:ARG:HB2	1.50	1.39
5:T:44:GLY:HA3	6:V:400:ALA:CB	1.50	1.39
4:E:401:ALA:N	6:U:52:GLY:CA	1.86	1.39
6:I:412:ARG:CA	6:K:456:ASN:ND2	1.81	1.39
6:I:472:ARG:CD	6:K:530:ARG:CA	1.94	1.39
6:I:548:LYS:NZ	6:K:644:LEU:HD22	1.09	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:613:LEU:CD2	6:K:32:PRO:O	1.68	1.39
6:J:456:ASN:ND2	6:K:412:ARG:CA	1.83	1.39
6:P:458:THR:N	6:Q:412:ARG:CD	1.73	1.39
6:U:456:ASN:OD1	6:V:412:ARG:CB	1.67	1.39
6:U:459:LEU:CG	6:V:412:ARG:HB2	1.48	1.39
6:V:298:PHE:HZ	6:W:417:PHE:N	1.09	1.39
4:D:390:ASN:CG	6:P:50:PRO:HG2	1.46	1.39
6:I:160:GLN:HE21	6:J:612:SER:CB	1.30	1.39
6:I:412:ARG:CD	6:K:458:THR:N	1.78	1.39
6:I:612:SER:HB2	6:K:160:GLN:CD	1.43	1.39
6:O:416:ARG:O	6:Q:298:PHE:CE2	1.73	1.39
6:P:298:PHE:CE2	6:Q:416:ARG:O	1.73	1.39
5:S:44:GLY:HA3	6:U:400:ALA:CB	1.50	1.39
6:U:193:ILE:CA	6:V:562:TYR:HE1	1.32	1.39
6:U:299:ILE:CD1	6:V:419:MET:HE2	1.52	1.39
6:U:644:LEU:HD22	6:V:548:LYS:NZ	1.12	1.39
3:C:714:SER:C	3:C:726:ARG:NH2	1.80	1.39
5:F:4:HIS:CE1	6:J:587:GLY:N	1.91	1.39
5:G:44:GLY:HA3	6:I:400:ALA:CB	1.50	1.39
6:I:459:LEU:CD2	6:J:414:GLN:OE1	1.68	1.39
6:J:32:PRO:O	6:K:613:LEU:CD2	1.69	1.39
6:J:154:ARG:NH1	6:K:247:SER:H	1.21	1.39
6:J:299:ILE:CD1	6:K:419:MET:CE	2.01	1.39
6:O:644:LEU:HD22	6:P:548:LYS:CE	1.41	1.39
6:P:459:LEU:CD2	6:Q:414:GLN:OE1	1.69	1.39
6:V:298:PHE:HB3	6:W:418:ASN:CA	1.53	1.39
6:I:299:ILE:CD1	6:J:419:MET:HE2	1.52	1.39
6:O:44:THR:CB	6:P:84:LYS:HE3	1.41	1.39
6:O:121:ALA:HB2	6:P:87:PHE:CG	1.42	1.39
6:O:459:LEU:CD2	6:P:414:GLN:OE1	1.69	1.39
6:O:548:LYS:NZ	6:Q:644:LEU:HD22	1.09	1.39
6:O:613:LEU:CD2	6:Q:32:PRO:O	1.68	1.39
6:P:644:LEU:CD2	6:Q:548:LYS:NZ	1.79	1.39
6:U:32:PRO:O	6:V:613:LEU:CD2	1.69	1.39
6:U:459:LEU:CG	6:V:414:GLN:HE22	1.29	1.39
6:V:160:GLN:HE21	6:W:612:SER:CB	1.31	1.39
6:V:530:ARG:HA	6:W:472:ARG:CD	1.53	1.39
6:X:497:GLU:OE1	5:Y:5:MET:CG	1.71	1.39
5:F:193:GLY:HA3	6:K:364:PRO:CG	1.53	1.38
5:H:44:GLY:HA3	6:J:400:ALA:CB	1.50	1.38
6:J:298:PHE:HB3	6:K:418:ASN:CA	1.53	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:299:ILE:CD1	6:V:419:MET:CE	2.01	1.38
6:V:299:ILE:CD1	6:W:419:MET:CE	2.01	1.38
2:B:952:PRO:C	4:D:35:ARG:NH2	1.74	1.38
6:J:644:LEU:CG	6:K:548:LYS:HE3	1.51	1.38
6:O:36:LEU:CB	6:P:253:VAL:HG12	1.54	1.38
6:O:232:ALA:CB	6:Q:66:ASP:CG	1.90	1.38
6:O:298:PHE:CZ	6:P:417:PHE:C	1.99	1.38
6:I:298:PHE:CZ	6:J:417:PHE:C	2.01	1.38
6:J:300:LYS:NZ	6:K:418:ASN:CG	1.82	1.38
6:J:458:THR:N	6:K:412:ARG:CD	1.74	1.38
5:L:4:HIS:CE1	6:P:587:GLY:N	1.92	1.38
6:O:412:ARG:HB2	6:Q:459:LEU:CG	1.52	1.38
6:U:416:ARG:O	6:W:298:PHE:CE2	1.74	1.38
6:U:459:LEU:CA	6:V:412:ARG:CZ	1.99	1.38
6:I:412:ARG:HG3	6:K:456:ASN:CG	1.36	1.38
6:I:417:PHE:C	6:K:298:PHE:CE2	2.01	1.38
6:I:641:ILE:CG1	6:J:545:VAL:CG1	1.84	1.38
6:J:458:THR:HA	6:K:412:ARG:CD	1.45	1.38
6:O:160:GLN:NE2	6:P:612:SER:C	1.80	1.38
6:P:298:PHE:CG	6:Q:418:ASN:HA	1.57	1.38
6:P:644:LEU:CG	6:Q:548:LYS:HE3	1.52	1.38
6:U:161:LYS:CG	6:V:533:ASP:OD1	1.72	1.38
6:U:414:GLN:CD	6:W:459:LEU:CD2	1.96	1.38
6:U:414:GLN:OE1	6:W:459:LEU:CD2	1.69	1.38
6:V:298:PHE:CG	6:W:418:ASN:HA	1.57	1.38
3:C:314:SER:HA	3:C:1196:ARG:CG	1.52	1.38
3:C:384:MET:HB3	3:C:1197:TYR:CE2	1.58	1.38
6:I:644:LEU:CG	6:J:548:LYS:CE	1.97	1.38
6:J:160:GLN:CG	6:K:612:SER:OG	1.66	1.38
6:J:298:PHE:CE2	6:K:416:ARG:O	1.73	1.38
5:M:44:GLY:HA3	6:O:400:ALA:CB	1.50	1.38
5:N:44:GLY:HA2	6:P:400:ALA:C	1.49	1.38
6:P:193:ILE:O	6:Q:562:TYR:CD1	1.77	1.38
6:U:548:LYS:NZ	6:W:644:LEU:CD2	1.82	1.38
6:V:459:LEU:HD13	6:W:414:GLN:CD	1.44	1.38
6:O:412:ARG:CD	6:Q:458:THR:N	1.78	1.37
6:O:644:LEU:CG	6:P:548:LYS:HE3	1.52	1.37
6:P:298:PHE:HB3	6:Q:418:ASN:CA	1.53	1.37
2:B:953:GLY:N	4:D:35:ARG:CD	1.84	1.37
4:D:392:ALA:N	6:P:49:ARG:NH2	1.71	1.37
6:I:193:ILE:O	6:J:562:TYR:CD1	1.77	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:416:ARG:O	6:K:298:PHE:CE2	1.74	1.37
6:J:298:PHE:HZ	6:K:417:PHE:N	1.10	1.37
5:L:193:GLY:HA3	6:Q:364:PRO:CG	1.53	1.37
6:O:32:PRO:O	6:P:613:LEU:CD2	1.69	1.37
6:O:36:LEU:HB3	6:P:253:VAL:CG1	1.55	1.37
6:P:42:ASN:ND2	6:Q:235:LEU:CD2	1.87	1.37
6:U:36:LEU:CB	6:V:253:VAL:HG12	1.53	1.37
6:U:154:ARG:HE	6:V:248:GLU:N	1.18	1.37
6:U:160:GLN:NE2	6:V:612:SER:C	1.81	1.37
6:U:458:THR:N	6:V:412:ARG:CD	1.78	1.37
6:U:459:LEU:CG	6:V:414:GLN:CD	1.92	1.37
6:U:548:LYS:HE3	6:W:644:LEU:CG	1.54	1.37
6:V:193:ILE:CB	6:W:562:TYR:CE1	2.06	1.37
2:B:1213:ALA:HB1	3:C:552:ASP:CG	1.42	1.37
3:C:386:GLU:OE2	3:C:1195:TYR:CE1	1.78	1.37
6:I:154:ARG:NH1	6:J:247:SER:N	1.73	1.37
6:I:414:GLN:CD	6:K:459:LEU:CD2	1.97	1.37
6:I:459:LEU:CG	6:J:414:GLN:CD	1.94	1.37
6:I:644:LEU:CD2	6:J:548:LYS:NZ	1.81	1.37
6:J:42:ASN:ND2	6:K:235:LEU:CD2	1.87	1.37
6:J:193:ILE:CB	6:K:562:TYR:CE1	2.07	1.37
6:O:154:ARG:HE	6:P:248:GLU:N	1.19	1.37
6:O:641:ILE:CG1	6:P:545:VAL:CG1	1.84	1.37
6:P:456:ASN:ND2	6:Q:412:ARG:CA	1.83	1.37
5:R:4:HIS:CE1	6:V:587:GLY:N	1.91	1.37
6:V:160:GLN:CD	6:W:612:SER:HB2	1.43	1.37
6:I:160:GLN:NE2	6:J:612:SER:C	1.80	1.37
6:I:412:ARG:NH2	6:K:459:LEU:CD2	1.87	1.37
6:J:459:LEU:CD1	6:K:414:GLN:OE1	1.68	1.37
6:O:417:PHE:C	6:Q:298:PHE:CE2	2.00	1.37
6:P:154:ARG:NH1	6:Q:247:SER:N	1.73	1.37
6:P:530:ARG:HA	6:Q:472:ARG:CD	1.50	1.37
6:U:456:ASN:ND2	6:V:412:ARG:CA	1.88	1.37
6:U:612:SER:C	6:W:160:GLN:NE2	1.82	1.37
2:B:1213:ALA:CB	3:C:552:ASP:OD2	1.68	1.37
6:I:160:GLN:CG	6:J:612:SER:CB	2.03	1.37
6:I:414:GLN:OE1	6:K:459:LEU:CD2	1.70	1.37
6:I:456:ASN:OD1	6:J:412:ARG:CG	1.72	1.37
6:I:548:LYS:HE3	6:K:644:LEU:CG	1.53	1.37
6:I:612:SER:C	6:K:160:GLN:NE2	1.83	1.37
5:N:44:GLY:HA3	6:P:400:ALA:CB	1.51	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:644:LEU:CG	6:P:548:LYS:CE	1.97	1.37
6:P:66:ASP:CG	6:Q:232:ALA:CB	1.95	1.37
6:V:644:LEU:CG	6:W:548:LYS:HE3	1.52	1.37
2:B:959:ARG:CZ	4:D:40:ARG:HG2	1.55	1.36
5:F:44:GLY:HA2	6:K:400:ALA:CA	1.40	1.36
6:O:458:THR:N	6:P:412:ARG:CD	1.78	1.36
6:U:154:ARG:NH1	6:V:247:SER:N	1.73	1.36
6:U:193:ILE:O	6:V:562:TYR:CD1	1.78	1.36
6:U:300:LYS:NZ	6:V:418:ASN:CG	1.82	1.36
6:U:562:TYR:CD1	6:W:193:ILE:O	1.78	1.36
6:V:456:ASN:ND2	6:W:412:ARG:CA	1.83	1.36
6:V:644:LEU:HD22	6:W:548:LYS:NZ	1.05	1.36
2:B:882:PRO:CG	2:B:962:GLN:NE2	1.87	1.36
6:J:644:LEU:CD2	6:K:548:LYS:NZ	1.80	1.36
6:O:612:SER:C	6:Q:160:GLN:NE2	1.83	1.36
5:R:193:GLY:HA3	6:W:364:PRO:CG	1.53	1.36
6:V:121:ALA:HB2	6:W:87:PHE:CG	1.54	1.36
6:V:300:LYS:NZ	6:W:418:ASN:CG	1.83	1.36
2:B:1182:ASN:CA	4:D:52:PRO:HB2	1.36	1.36
6:I:193:ILE:CB	6:J:562:TYR:CE1	2.07	1.36
6:I:298:PHE:CE2	6:J:417:PHE:C	2.03	1.36
6:I:299:ILE:CD1	6:J:419:MET:CE	2.01	1.36
6:J:193:ILE:O	6:K:562:TYR:CD1	1.78	1.36
6:O:193:ILE:O	6:P:562:TYR:CD1	1.78	1.36
6:O:418:ASN:CG	6:Q:300:LYS:NZ	1.83	1.36
6:O:459:LEU:CD2	6:P:412:ARG:NH2	1.88	1.36
6:O:530:ARG:N	6:P:472:ARG:HD3	1.23	1.36
6:U:412:ARG:HG3	6:W:456:ASN:CG	1.36	1.36
6:V:42:ASN:ND2	6:W:235:LEU:CD2	1.87	1.36
6:V:459:LEU:CD2	6:W:414:GLN:OE1	1.68	1.36
6:I:458:THR:N	6:J:412:ARG:CD	1.78	1.36
6:O:161:LYS:CG	6:P:533:ASP:OD1	1.72	1.36
6:O:300:LYS:HZ1	6:P:418:ASN:ND2	1.20	1.36
6:P:161:LYS:CE	6:Q:533:ASP:OD1	1.73	1.36
6:P:299:ILE:CD1	6:Q:419:MET:CE	2.01	1.36
6:P:644:LEU:HD22	6:Q:548:LYS:NZ	1.05	1.36
6:U:298:PHE:CE2	6:V:417:PHE:C	2.02	1.36
6:U:411:VAL:HG11	6:W:457:PRO:CG	1.43	1.36
6:V:154:ARG:NH1	6:W:247:SER:N	1.73	1.36
6:V:457:PRO:CD	6:W:411:VAL:CG1	1.97	1.36
2:B:792:GLN:NE2	4:D:105:ALA:CB	1.87	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:36:LEU:CB	6:J:253:VAL:HG12	1.53	1.36
6:I:456:ASN:ND2	6:J:412:ARG:CA	1.87	1.36
6:I:459:LEU:CD2	6:J:414:GLN:CD	1.99	1.36
6:J:298:PHE:CG	6:K:418:ASN:HA	1.59	1.36
6:J:644:LEU:HD22	6:K:548:LYS:NZ	1.06	1.36
6:O:295:ARG:NH1	6:P:419:MET:CB	1.89	1.36
6:O:298:PHE:CE2	6:P:417:PHE:C	2.00	1.36
6:O:299:ILE:CD1	6:P:419:MET:HE2	1.52	1.36
6:O:612:SER:HB2	6:Q:160:GLN:CD	1.41	1.36
6:P:300:LYS:NZ	6:Q:418:ASN:CG	1.82	1.36
6:P:300:LYS:HZ3	6:Q:418:ASN:ND2	1.17	1.36
6:P:456:ASN:CG	6:Q:412:ARG:HG3	1.38	1.36
6:U:459:LEU:CD2	6:V:412:ARG:NH2	1.89	1.36
6:V:160:GLN:HG2	6:W:612:SER:CB	1.55	1.36
2:B:310:LYS:N	2:B:399:ARG:NH1	1.72	1.35
4:E:339:LEU:HB2	6:U:55:VAL:CG1	1.48	1.35
4:E:401:ALA:CB	6:U:52:GLY:HA2	1.53	1.35
6:I:154:ARG:HE	6:J:248:GLU:N	1.20	1.35
6:I:160:GLN:CD	6:J:612:SER:HB2	1.42	1.35
6:I:533:ASP:OD1	6:K:161:LYS:CE	1.74	1.35
6:J:300:LYS:NZ	6:K:418:ASN:ND2	1.74	1.35
6:O:29:THR:CA	6:P:609:ARG:CD	2.04	1.35
6:O:160:GLN:CG	6:P:612:SER:CB	2.04	1.35
6:O:247:SER:N	6:Q:154:ARG:NH1	1.73	1.35
6:O:248:GLU:N	6:Q:154:ARG:HE	1.24	1.35
6:O:300:LYS:NZ	6:P:418:ASN:CG	1.82	1.35
6:O:456:ASN:ND2	6:P:412:ARG:CA	1.86	1.35
6:U:87:PHE:CG	6:W:121:ALA:HB2	1.47	1.35
6:U:169:MET:O	6:V:541:SER:CB	1.74	1.35
6:U:193:ILE:CB	6:V:562:TYR:CE1	2.06	1.35
6:U:295:ARG:NH1	6:V:419:MET:CB	1.89	1.35
6:I:66:ASP:CG	6:J:232:ALA:HB3	1.41	1.35
6:O:298:PHE:CE2	6:P:416:ARG:C	2.05	1.35
6:O:412:ARG:CB	6:Q:456:ASN:OD1	1.65	1.35
6:O:562:TYR:CD1	6:Q:193:ILE:O	1.78	1.35
6:P:300:LYS:NZ	6:Q:418:ASN:ND2	1.74	1.35
6:U:36:LEU:HB3	6:V:253:VAL:CG1	1.55	1.35
6:U:548:LYS:NZ	6:W:644:LEU:HD22	1.08	1.35
6:U:562:TYR:HE1	6:W:193:ILE:CA	1.38	1.35
2:B:959:ARG:NH2	4:D:40:ARG:HG2	1.41	1.35
5:H:44:GLY:HA2	6:J:400:ALA:C	1.49	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:161:LYS:CG	6:J:533:ASP:OD1	1.72	1.35
6:I:161:LYS:CE	6:J:533:ASP:OD1	1.74	1.35
6:O:44:THR:CA	6:P:84:LYS:HE3	1.56	1.35
6:O:541:SER:CB	6:Q:169:MET:O	1.75	1.35
5:T:44:GLY:HA2	6:V:400:ALA:C	1.50	1.35
6:U:458:THR:N	6:V:412:ARG:HD2	1.02	1.35
6:U:459:LEU:CD2	6:V:414:GLN:CD	1.99	1.35
2:B:882:PRO:HG2	2:B:962:GLN:NE2	1.36	1.35
4:E:404:VAL:CG1	6:U:49:ARG:HH21	1.38	1.35
6:I:169:MET:CA	6:J:541:SER:OG	1.73	1.35
6:I:411:VAL:HG11	6:K:457:PRO:CG	1.42	1.35
6:J:44:THR:HB	6:K:84:LYS:NZ	1.29	1.35
6:J:161:LYS:CE	6:K:533:ASP:OD1	1.73	1.35
6:J:295:ARG:NH1	6:K:419:MET:CB	1.89	1.35
6:O:169:MET:CA	6:P:541:SER:OG	1.73	1.35
6:O:193:ILE:CB	6:P:562:TYR:CE1	2.07	1.35
6:O:235:LEU:CD2	6:Q:42:ASN:ND2	1.90	1.35
6:O:412:ARG:NH2	6:Q:459:LEU:CD2	1.88	1.35
6:O:562:TYR:HE1	6:Q:193:ILE:CA	1.40	1.35
6:P:295:ARG:NH1	6:Q:419:MET:CB	1.89	1.35
6:U:160:GLN:CG	6:V:612:SER:CB	2.03	1.35
6:U:161:LYS:CE	6:V:533:ASP:OD1	1.74	1.35
6:U:248:GLU:N	6:W:154:ARG:HE	1.23	1.35
6:U:298:PHE:CZ	6:V:417:PHE:C	2.00	1.35
6:U:456:ASN:CG	6:V:412:ARG:HG3	1.42	1.35
6:U:612:SER:OG	6:W:160:GLN:CB	1.75	1.35
6:V:44:THR:CB	6:W:84:LYS:NZ	1.76	1.35
6:V:161:LYS:HE2	6:W:533:ASP:CG	1.49	1.35
6:V:193:ILE:O	6:W:562:TYR:CD1	1.78	1.35
6:V:300:LYS:NZ	6:W:418:ASN:ND2	1.75	1.35
6:V:333:PRO:O	6:W:411:VAL:CG2	1.75	1.35
6:I:66:ASP:CB	6:J:232:ALA:HB1	1.47	1.35
6:I:295:ARG:NH1	6:J:419:MET:CB	1.89	1.35
6:I:456:ASN:OD1	6:J:412:ARG:CB	1.67	1.35
6:I:541:SER:OG	6:K:169:MET:CA	1.74	1.35
6:O:411:VAL:CG2	6:Q:333:PRO:O	1.75	1.35
6:O:459:LEU:CD2	6:P:414:GLN:CD	2.00	1.35
6:O:541:SER:OG	6:Q:169:MET:CA	1.74	1.35
6:P:121:ALA:HB2	6:Q:87:PHE:CG	1.55	1.35
6:P:160:GLN:HE21	6:Q:612:SER:CB	1.31	1.35
6:P:459:LEU:CA	6:Q:412:ARG:NH1	1.89	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:165:THR:CG2	6:V:534:SER:HB2	1.43	1.35
6:U:169:MET:CA	6:V:541:SER:OG	1.73	1.35
6:U:459:LEU:HD12	6:V:412:ARG:CB	1.55	1.35
6:U:541:SER:OG	6:W:169:MET:CA	1.74	1.35
3:C:715:VAL:N	3:C:726:ARG:NH2	1.75	1.34
3:C:938:TYR:OH	3:C:946:VAL:CG1	1.73	1.34
5:F:193:GLY:CA	6:K:364:PRO:CG	2.04	1.34
6:I:418:ASN:CG	6:K:300:LYS:NZ	1.82	1.34
6:P:193:ILE:CB	6:Q:562:TYR:CE1	2.07	1.34
6:P:333:PRO:O	6:Q:411:VAL:CG2	1.74	1.34
6:P:458:THR:HA	6:Q:412:ARG:CD	1.43	1.34
6:U:44:THR:CA	6:V:84:LYS:HE3	1.55	1.34
6:V:295:ARG:NH1	6:W:419:MET:CB	1.89	1.34
4:D:389:PHE:N	6:P:55:VAL:H	1.25	1.34
6:I:247:SER:N	6:K:154:ARG:NH1	1.73	1.34
6:I:298:PHE:CE2	6:J:416:ARG:C	2.03	1.34
6:I:459:LEU:HD12	6:J:412:ARG:CB	1.55	1.34
6:O:169:MET:O	6:P:541:SER:CB	1.73	1.34
6:O:459:LEU:HD12	6:P:412:ARG:CB	1.54	1.34
6:P:160:GLN:CB	6:Q:612:SER:OG	1.75	1.34
6:U:232:ALA:HB3	6:W:66:ASP:OD1	1.17	1.34
6:U:411:VAL:CG2	6:W:333:PRO:O	1.74	1.34
2:B:309:LEU:C	2:B:399:ARG:NH1	1.85	1.34
6:I:29:THR:CA	6:J:609:ARG:CD	2.03	1.34
6:I:36:LEU:HB3	6:J:253:VAL:CG1	1.55	1.34
6:I:333:PRO:O	6:J:411:VAL:CG2	1.75	1.34
6:I:541:SER:CB	6:K:169:MET:O	1.73	1.34
6:I:612:SER:OG	6:K:160:GLN:CB	1.74	1.34
6:J:154:ARG:NH1	6:K:247:SER:N	1.73	1.34
6:J:459:LEU:HD23	6:K:412:ARG:NH2	1.42	1.34
6:O:459:LEU:CG	6:P:414:GLN:CD	1.94	1.34
6:O:622:GLU:CB	6:P:280:LEU:HD12	1.57	1.34
6:P:169:MET:O	6:Q:541:SER:CB	1.74	1.34
5:R:193:GLY:CA	6:W:364:PRO:CG	2.03	1.34
6:U:533:ASP:OD1	6:W:161:LYS:CE	1.75	1.34
6:U:644:LEU:CD2	6:V:548:LYS:NZ	1.80	1.34
6:V:160:GLN:CB	6:W:612:SER:OG	1.74	1.34
2:B:954:PRO:CD	4:D:39:SER:OG	1.70	1.34
6:I:411:VAL:CG2	6:K:333:PRO:O	1.75	1.34
6:I:548:LYS:NZ	6:K:644:LEU:CD2	1.82	1.34
6:J:160:GLN:NE2	6:K:612:SER:C	1.85	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:161:LYS:HE2	6:K:533:ASP:CG	1.50	1.34
6:J:530:ARG:N	6:K:472:ARG:HD3	1.32	1.34
6:O:87:PHE:CG	6:Q:121:ALA:HB2	1.47	1.34
6:O:299:ILE:CD1	6:P:419:MET:CE	2.02	1.34
6:O:548:LYS:HE3	6:Q:644:LEU:CG	1.53	1.34
6:P:147:ARG:NH1	6:W:100:LYS:HE3	1.39	1.34
6:U:161:LYS:CD	6:V:533:ASP:OD1	1.76	1.34
2:B:407:ARG:CG	4:D:184:HIS:CE1	2.10	1.34
6:I:248:GLU:N	6:K:154:ARG:HE	1.23	1.34
6:I:412:ARG:CB	6:K:456:ASN:OD1	1.64	1.34
6:I:562:TYR:CD1	6:K:193:ILE:O	1.79	1.34
6:J:66:ASP:CG	6:K:232:ALA:CB	1.95	1.34
6:J:160:GLN:CB	6:K:612:SER:OG	1.75	1.34
6:O:533:ASP:OD1	6:Q:161:LYS:CE	1.74	1.34
6:P:459:LEU:CD1	6:Q:414:GLN:OE1	1.67	1.34
6:U:84:LYS:HE3	6:W:44:THR:CA	1.58	1.34
3:C:315:SER:N	3:C:1196:ARG:CD	1.75	1.33
6:I:280:LEU:HD12	6:K:622:GLU:CB	1.57	1.33
6:I:412:ARG:CG	6:K:456:ASN:OD1	1.73	1.33
6:I:458:THR:N	6:J:412:ARG:HD2	1.03	1.33
6:J:169:MET:O	6:K:541:SER:CB	1.74	1.33
6:J:333:PRO:O	6:K:411:VAL:CG2	1.75	1.33
6:O:161:LYS:CE	6:P:533:ASP:OD1	1.74	1.33
6:O:533:ASP:CG	6:Q:161:LYS:HE2	1.52	1.33
6:U:29:THR:CA	6:V:609:ARG:CD	2.05	1.33
6:V:160:GLN:NE2	6:W:612:SER:C	1.85	1.33
6:V:300:LYS:HZ3	6:W:418:ASN:ND2	1.21	1.33
6:V:459:LEU:CA	6:W:412:ARG:NH1	1.89	1.33
6:I:416:ARG:C	6:K:298:PHE:CE2	2.03	1.33
6:I:459:LEU:CD2	6:J:412:ARG:NH2	1.89	1.33
5:L:193:GLY:CA	6:Q:364:PRO:CG	2.04	1.33
6:O:333:PRO:O	6:P:411:VAL:CG2	1.75	1.33
6:O:416:ARG:C	6:Q:298:PHE:CE2	2.04	1.33
6:O:458:THR:N	6:P:412:ARG:HD2	1.03	1.33
6:O:458:THR:HA	6:P:412:ARG:CD	1.44	1.33
5:R:44:GLY:CA	6:W:400:ALA:C	1.99	1.33
5:T:44:GLY:HA2	6:V:400:ALA:CA	1.38	1.33
6:U:333:PRO:O	6:V:411:VAL:CG2	1.75	1.33
6:U:411:VAL:HG22	6:W:333:PRO:C	1.53	1.33
6:U:412:ARG:NH2	6:W:459:LEU:CD2	1.88	1.33
6:U:459:LEU:HB3	6:V:414:GLN:NE2	1.21	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:541:SER:CB	6:W:169:MET:O	1.74	1.33
4:D:390:ASN:N	6:P:54:SER:C	1.84	1.33
5:F:4:HIS:CG	6:J:586:VAL:CG2	2.04	1.33
6:I:66:ASP:OD1	6:J:232:ALA:HB3	1.15	1.33
6:I:169:MET:O	6:J:541:SER:CB	1.74	1.33
6:O:298:PHE:CG	6:P:418:ASN:HA	1.62	1.33
6:P:160:GLN:NE2	6:Q:612:SER:C	1.85	1.33
6:P:459:LEU:HD23	6:Q:412:ARG:NH2	1.41	1.33
6:U:161:LYS:HE2	6:V:533:ASP:CG	1.53	1.33
6:U:280:LEU:HD12	6:W:622:GLU:CB	1.58	1.33
6:U:300:LYS:NZ	6:V:418:ASN:ND2	1.76	1.33
6:U:414:GLN:CD	6:W:459:LEU:HD13	1.45	1.33
6:U:472:ARG:CD	6:W:530:ARG:CA	1.96	1.33
6:U:619:ASP:OD1	6:V:284:VAL:CG1	1.74	1.33
6:V:298:PHE:CE2	6:W:416:ARG:C	2.07	1.33
6:I:195:PRO:CD	6:J:562:TYR:HB3	1.59	1.33
6:I:333:PRO:C	6:J:411:VAL:HG22	1.53	1.33
6:I:562:TYR:HE1	6:K:193:ILE:CA	1.38	1.33
6:I:644:LEU:CG	6:J:548:LYS:HE3	1.53	1.33
6:J:160:GLN:HE21	6:K:612:SER:CB	1.31	1.33
6:O:472:ARG:CD	6:Q:530:ARG:CA	1.94	1.33
6:O:612:SER:CB	6:Q:160:GLN:HG2	1.55	1.33
6:P:193:ILE:CB	6:Q:562:TYR:CZ	2.12	1.33
5:R:4:HIS:CG	6:V:586:VAL:CG2	2.04	1.33
6:U:247:SER:N	6:W:154:ARG:NH1	1.73	1.33
6:V:530:ARG:CA	6:W:472:ARG:CD	2.04	1.33
6:I:44:THR:CA	6:J:84:LYS:HE3	1.57	1.33
6:I:161:LYS:CE	6:J:533:ASP:CG	2.02	1.33
6:I:300:LYS:NZ	6:J:418:ASN:CG	1.83	1.33
6:I:622:GLU:CB	6:J:280:LEU:HD12	1.58	1.33
6:P:161:LYS:HE2	6:Q:533:ASP:CG	1.50	1.33
6:U:161:LYS:CE	6:V:533:ASP:HA	1.58	1.33
6:U:562:TYR:CE1	6:W:193:ILE:CB	2.11	1.33
6:V:169:MET:O	6:W:541:SER:CB	1.74	1.33
6:X:497:GLU:OE1	5:Y:5:MET:HG2	1.16	1.33
2:B:952:PRO:C	4:D:35:ARG:HD3	1.41	1.32
6:I:161:LYS:CD	6:J:533:ASP:OD1	1.76	1.32
6:I:533:ASP:CG	6:K:161:LYS:HE2	1.52	1.32
6:I:644:LEU:CB	6:J:548:LYS:CE	2.06	1.32
6:O:30:ALA:CA	6:P:610:THR:HG22	1.57	1.32
6:O:121:ALA:HB3	6:P:87:PHE:CD2	1.64	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:154:ARG:NH1	6:P:247:SER:N	1.73	1.32
6:O:412:ARG:HB2	6:Q:459:LEU:CD1	1.59	1.32
6:O:459:LEU:HD13	6:P:414:GLN:CD	1.52	1.32
6:O:533:ASP:CG	6:Q:161:LYS:CE	2.02	1.32
6:O:562:TYR:CZ	6:Q:193:ILE:CB	2.12	1.32
6:U:161:LYS:HE2	6:V:533:ASP:CB	1.59	1.32
6:U:193:ILE:CB	6:V:562:TYR:CZ	2.12	1.32
6:U:459:LEU:HD12	6:V:412:ARG:CA	1.60	1.32
6:U:533:ASP:CG	6:W:161:LYS:HE2	1.53	1.32
4:D:152:ASP:OD2	6:P:53:THR:CG2	1.74	1.32
6:I:414:GLN:CD	6:K:459:LEU:HD13	1.46	1.32
6:I:418:ASN:ND2	6:K:300:LYS:NZ	1.76	1.32
6:I:562:TYR:CE1	6:K:193:ILE:CB	2.11	1.32
6:O:612:SER:OG	6:Q:160:GLN:CB	1.75	1.32
6:P:147:ARG:CZ	6:W:100:LYS:HE3	1.48	1.32
6:P:530:ARG:CA	6:Q:472:ARG:CD	2.03	1.32
6:U:298:PHE:CG	6:V:418:ASN:HA	1.61	1.32
6:U:562:TYR:CZ	6:W:193:ILE:CB	2.12	1.32
6:V:161:LYS:CE	6:W:533:ASP:OD1	1.74	1.32
3:C:386:GLU:OE2	3:C:1195:TYR:CZ	1.82	1.32
6:I:298:PHE:CG	6:J:418:ASN:HA	1.64	1.32
6:J:459:LEU:CA	6:K:412:ARG:NH1	1.89	1.32
5:M:44:GLY:HA2	6:O:400:ALA:C	1.52	1.32
6:O:84:LYS:HE3	6:Q:44:THR:CA	1.58	1.32
6:O:161:LYS:HE2	6:P:533:ASP:CB	1.58	1.32
6:O:193:ILE:CB	6:P:562:TYR:CZ	2.12	1.32
6:O:280:LEU:HD12	6:Q:622:GLU:CB	1.58	1.32
6:O:545:VAL:CG1	6:Q:641:ILE:CG1	1.90	1.32
6:V:66:ASP:CG	6:W:232:ALA:CB	1.96	1.32
6:V:160:GLN:NE2	6:W:612:SER:CA	1.86	1.32
6:I:284:VAL:CG1	6:K:619:ASP:OD1	1.75	1.32
6:I:612:SER:CB	6:K:160:GLN:HE21	1.30	1.32
6:I:619:ASP:OD1	6:J:284:VAL:CG1	1.75	1.32
6:J:121:ALA:HB2	6:K:87:PHE:CE1	1.63	1.32
5:L:4:HIS:CG	6:P:586:VAL:CG2	2.04	1.32
5:M:4:HIS:HE1	6:Q:587:GLY:CA	1.43	1.32
6:O:44:THR:CG2	6:P:84:LYS:HZ2	1.42	1.32
6:O:161:LYS:CE	6:P:533:ASP:CG	2.02	1.32
6:O:418:ASN:ND2	6:Q:300:LYS:NZ	1.76	1.32
6:V:173:ASP:OD2	6:W:606:THR:HG21	1.28	1.32
5:F:44:GLY:HA3	6:K:400:ALA:CB	1.60	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:84:LYS:HE3	6:K:44:THR:CA	1.58	1.32
6:I:235:LEU:CD2	6:K:42:ASN:ND2	1.91	1.32
6:I:459:LEU:HD12	6:J:412:ARG:CA	1.58	1.32
6:I:562:TYR:CZ	6:K:193:ILE:CB	2.11	1.32
6:J:169:MET:CA	6:K:541:SER:OG	1.76	1.32
6:J:333:PRO:C	6:K:411:VAL:HG22	1.55	1.32
6:O:562:TYR:CE1	6:Q:193:ILE:CB	2.12	1.32
6:P:121:ALA:HB2	6:Q:87:PHE:CE1	1.63	1.32
5:R:44:GLY:HA3	6:W:400:ALA:CB	1.60	1.32
6:U:412:ARG:NH1	6:W:459:LEU:HA	1.41	1.32
6:U:418:ASN:CG	6:W:300:LYS:NZ	1.82	1.32
6:V:333:PRO:C	6:W:411:VAL:HG22	1.54	1.32
6:V:459:LEU:CD1	6:W:414:GLN:NE2	1.90	1.32
5:G:44:GLY:HA2	6:I:400:ALA:C	1.53	1.31
6:I:122:THR:HG21	6:J:90:ASN:CB	1.60	1.31
6:J:193:ILE:CB	6:K:562:TYR:CZ	2.12	1.31
6:P:298:PHE:CE2	6:Q:416:ARG:C	2.07	1.31
6:U:195:PRO:CD	6:V:562:TYR:HB3	1.59	1.31
6:U:275:GLU:CG	6:W:630:LEU:CD1	2.08	1.31
4:D:388:PRO:HB2	6:P:56:ALA:CB	1.60	1.31
5:H:4:HIS:HE1	6:I:587:GLY:CA	1.43	1.31
6:I:193:ILE:CB	6:J:562:TYR:CZ	2.12	1.31
6:I:232:ALA:HB3	6:K:66:ASP:OD1	1.18	1.31
6:I:412:ARG:HB2	6:K:459:LEU:CD1	1.60	1.31
6:O:160:GLN:CB	6:P:612:SER:OG	1.78	1.31
6:O:161:LYS:CE	6:P:533:ASP:HA	1.57	1.31
6:O:548:LYS:NZ	6:Q:644:LEU:CD2	1.83	1.31
6:U:122:THR:HG21	6:V:90:ASN:CB	1.59	1.31
6:U:412:ARG:HB2	6:W:459:LEU:CD1	1.59	1.31
6:U:472:ARG:HD3	6:W:530:ARG:N	1.30	1.31
6:V:44:THR:CA	6:W:84:LYS:HE3	1.59	1.31
2:B:952:PRO:C	4:D:35:ARG:NE	1.86	1.31
4:D:389:PHE:CA	6:P:55:VAL:H	1.33	1.31
6:I:161:LYS:CE	6:J:533:ASP:HA	1.58	1.31
6:I:419:MET:CE	6:K:299:ILE:CD1	2.08	1.31
6:I:456:ASN:ND2	6:J:412:ARG:N	1.78	1.31
6:I:533:ASP:CG	6:K:161:LYS:CE	2.02	1.31
6:O:333:PRO:C	6:P:411:VAL:HG22	1.53	1.31
6:U:644:LEU:CB	6:V:548:LYS:CE	2.06	1.31
6:I:472:ARG:HD3	6:K:530:ARG:N	1.30	1.31
6:J:66:ASP:OD1	6:K:232:ALA:HB3	1.21	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:121:ALA:HB3	6:K:87:PHE:CD2	1.66	1.31
6:O:87:PHE:CD2	6:Q:121:ALA:HB3	1.66	1.31
6:O:284:VAL:CG1	6:Q:619:ASP:OD1	1.74	1.31
6:O:411:VAL:HG22	6:Q:333:PRO:C	1.53	1.31
6:P:173:ASP:OD2	6:Q:606:THR:HG21	1.27	1.31
6:U:160:GLN:CB	6:V:612:SER:OG	1.79	1.31
6:U:161:LYS:CE	6:V:533:ASP:CG	2.02	1.31
6:U:235:LEU:CD2	6:W:42:ASN:ND2	1.90	1.31
6:U:253:VAL:CG1	6:W:36:LEU:HB3	1.59	1.31
6:U:412:ARG:CB	6:W:459:LEU:HD12	1.59	1.31
6:V:121:ALA:HB2	6:W:87:PHE:CE1	1.63	1.31
6:V:154:ARG:HE	6:W:248:GLU:N	1.28	1.31
6:V:619:ASP:OD1	6:W:284:VAL:CG1	1.77	1.31
2:B:954:PRO:HD3	4:D:39:SER:CB	1.57	1.31
3:C:795:ASP:OD1	4:D:251:ASN:ND2	1.64	1.31
6:I:29:THR:HA	6:J:609:ARG:CD	1.59	1.31
6:I:275:GLU:CG	6:K:630:LEU:CD1	2.09	1.31
6:I:411:VAL:HG22	6:K:333:PRO:C	1.54	1.31
6:I:412:ARG:CB	6:K:459:LEU:HD12	1.60	1.31
6:J:160:GLN:HG2	6:K:612:SER:CB	1.55	1.31
6:O:195:PRO:CD	6:P:562:TYR:HB3	1.58	1.31
6:O:242:PHE:CZ	6:Q:82:PHE:HZ	1.49	1.31
6:O:412:ARG:CB	6:Q:459:LEU:HD12	1.60	1.31
6:O:412:ARG:N	6:Q:456:ASN:ND2	1.79	1.31
5:R:44:GLY:HA2	6:W:400:ALA:CA	1.42	1.31
6:U:333:PRO:C	6:V:411:VAL:HG22	1.53	1.31
6:U:459:LEU:CB	6:V:414:GLN:NE2	1.72	1.31
6:U:533:ASP:CG	6:W:161:LYS:CE	2.03	1.31
2:B:952:PRO:O	4:D:35:ARG:CG	1.79	1.30
2:B:1181:THR:C	4:D:52:PRO:HG3	1.47	1.30
6:I:30:ALA:CA	6:J:610:THR:HG22	1.59	1.30
6:I:84:LYS:NZ	6:K:44:THR:HB	1.38	1.30
6:J:44:THR:CA	6:K:84:LYS:HE3	1.59	1.30
6:J:640:GLN:HE22	6:K:545:VAL:CG1	1.44	1.30
5:L:44:GLY:CA	6:Q:400:ALA:C	1.99	1.30
6:O:253:VAL:CG1	6:Q:36:LEU:HB3	1.60	1.30
6:P:44:THR:CA	6:Q:84:LYS:HE3	1.60	1.30
6:U:30:ALA:CA	6:V:610:THR:HG22	1.58	1.30
6:U:456:ASN:OD1	6:V:412:ARG:CG	1.73	1.30
6:V:459:LEU:HD23	6:W:412:ARG:NH2	1.40	1.30
6:V:640:GLN:HE22	6:W:545:VAL:CG1	1.44	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:152:ASP:OD2	6:P:53:THR:HG22	1.27	1.30
6:I:87:PHE:CE1	6:K:121:ALA:HB2	1.67	1.30
6:I:161:LYS:HE2	6:J:533:ASP:CG	1.54	1.30
6:J:160:GLN:NE2	6:K:612:SER:CA	1.87	1.30
5:L:44:GLY:HA3	6:Q:400:ALA:CB	1.59	1.30
6:O:160:GLN:NE2	6:P:612:SER:CA	1.84	1.30
6:O:161:LYS:CD	6:P:533:ASP:OD1	1.77	1.30
6:P:160:GLN:CD	6:Q:612:SER:HB2	1.42	1.30
6:U:253:VAL:HG12	6:W:36:LEU:CB	1.61	1.30
6:V:66:ASP:OD1	6:W:232:ALA:HB3	1.22	1.30
6:J:459:LEU:CD2	6:K:412:ARG:NH2	1.94	1.30
6:O:29:THR:HA	6:P:609:ARG:CD	1.60	1.30
6:O:87:PHE:CE1	6:Q:121:ALA:HB2	1.66	1.30
5:S:44:GLY:HA2	6:U:400:ALA:C	1.52	1.30
6:U:121:ALA:HB3	6:V:87:PHE:CD2	1.66	1.30
6:U:154:ARG:NE	6:V:248:GLU:N	1.78	1.30
6:U:412:ARG:CG	6:W:456:ASN:OD1	1.73	1.30
6:U:412:ARG:N	6:W:456:ASN:ND2	1.78	1.30
6:U:416:ARG:C	6:W:298:PHE:CE2	2.03	1.30
6:U:622:GLU:CB	6:V:280:LEU:HD12	1.58	1.30
6:I:44:THR:CG2	6:J:84:LYS:HZ2	1.43	1.30
6:I:122:THR:CG2	6:J:90:ASN:HB3	1.61	1.30
6:I:160:GLN:CB	6:J:612:SER:OG	1.79	1.30
6:J:622:GLU:CB	6:K:280:LEU:HD12	1.59	1.30
6:O:84:LYS:NZ	6:Q:44:THR:HB	1.37	1.30
6:O:459:LEU:HD12	6:P:412:ARG:CA	1.60	1.30
6:P:459:LEU:CD2	6:Q:412:ARG:NH2	1.94	1.30
6:U:533:ASP:OD1	6:W:161:LYS:CG	1.80	1.30
6:V:193:ILE:CB	6:W:562:TYR:CZ	2.11	1.30
6:V:459:LEU:CD2	6:W:412:ARG:NH2	1.93	1.30
6:V:622:GLU:CB	6:W:280:LEU:HD12	1.59	1.30
6:I:121:ALA:HB3	6:J:87:PHE:CD2	1.65	1.30
6:I:253:VAL:CG1	6:K:36:LEU:HB3	1.60	1.30
6:I:417:PHE:N	6:K:298:PHE:HZ	1.11	1.30
6:I:533:ASP:HA	6:K:161:LYS:NZ	1.46	1.30
6:J:154:ARG:HH11	6:K:247:SER:N	1.26	1.30
6:O:66:ASP:OD1	6:P:232:ALA:HB3	1.17	1.30
6:O:82:PHE:CZ	6:P:242:PHE:CZ	2.20	1.30
6:O:161:LYS:NZ	6:P:533:ASP:HA	1.46	1.30
6:O:533:ASP:OD1	6:Q:161:LYS:CG	1.78	1.30
6:P:622:GLU:CB	6:Q:280:LEU:HD12	1.59	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:242:PHE:CZ	6:K:82:PHE:HZ	1.49	1.29
6:I:458:THR:HA	6:J:412:ARG:CD	1.44	1.29
6:I:612:SER:CB	6:K:160:GLN:HG2	1.56	1.29
6:J:154:ARG:HE	6:K:248:GLU:N	1.29	1.29
6:J:456:ASN:CG	6:K:412:ARG:HG3	1.38	1.29
6:J:528:ALA:CB	6:K:283:SER:HB2	1.60	1.29
5:L:193:GLY:N	6:Q:364:PRO:HB2	1.47	1.29
6:P:121:ALA:HB3	6:Q:87:PHE:CD2	1.67	1.29
6:P:169:MET:CA	6:Q:541:SER:OG	1.77	1.29
6:P:640:GLN:HE22	6:Q:545:VAL:CG1	1.44	1.29
6:U:87:PHE:CD2	6:W:121:ALA:HB3	1.66	1.29
6:U:456:ASN:ND2	6:V:412:ARG:N	1.79	1.29
4:E:404:VAL:HG12	6:U:49:ARG:NH2	1.47	1.29
6:I:154:ARG:NE	6:J:248:GLU:N	1.79	1.29
6:I:161:LYS:NZ	6:J:533:ASP:HA	1.46	1.29
6:I:459:LEU:HD13	6:J:414:GLN:CD	1.52	1.29
6:I:533:ASP:OD1	6:K:161:LYS:CD	1.79	1.29
6:P:82:PHE:HZ	6:Q:242:PHE:CZ	1.49	1.29
6:P:459:LEU:HD12	6:Q:412:ARG:CB	1.62	1.29
6:P:528:ALA:CB	6:Q:283:SER:HB2	1.61	1.29
6:U:87:PHE:CD2	6:W:121:ALA:CB	2.15	1.29
6:V:44:THR:OG1	6:W:84:LYS:CE	1.80	1.29
6:V:169:MET:CA	6:W:541:SER:OG	1.77	1.29
2:B:952:PRO:O	4:D:35:ARG:CD	1.76	1.29
4:D:389:PHE:HB3	6:P:54:SER:CB	1.41	1.29
5:F:44:GLY:CA	6:K:400:ALA:C	2.00	1.29
6:I:84:LYS:CE	6:K:44:THR:OG1	1.81	1.29
6:J:298:PHE:CE2	6:K:416:ARG:C	2.07	1.29
6:J:456:ASN:ND2	6:K:412:ARG:N	1.79	1.29
6:O:121:ALA:HB2	6:P:87:PHE:CE1	1.66	1.29
6:O:419:MET:CE	6:Q:299:ILE:CD1	2.08	1.29
6:O:419:MET:HE2	6:Q:299:ILE:CD1	1.63	1.29
6:P:154:ARG:HE	6:Q:248:GLU:N	1.29	1.29
6:P:456:ASN:ND2	6:Q:412:ARG:N	1.78	1.29
6:P:459:LEU:CD1	6:Q:414:GLN:NE2	1.91	1.29
6:U:161:LYS:NZ	6:V:533:ASP:HA	1.44	1.29
6:V:121:ALA:CB	6:W:87:PHE:CD2	2.14	1.29
5:F:44:GLY:C	6:K:400:ALA:HA	1.56	1.29
6:I:121:ALA:HB2	6:J:87:PHE:CE1	1.68	1.29
6:O:275:GLU:CG	6:Q:630:LEU:CD1	2.09	1.29
6:P:66:ASP:OD1	6:Q:232:ALA:HB3	1.21	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:121:ALA:CB	6:Q:87:PHE:CD2	2.14	1.29
6:P:333:PRO:C	6:Q:411:VAL:HG22	1.54	1.29
6:U:87:PHE:CE1	6:W:121:ALA:HB2	1.66	1.29
6:U:122:THR:CG2	6:V:90:ASN:HB3	1.61	1.29
6:U:242:PHE:CZ	6:W:82:PHE:HZ	1.49	1.29
6:U:418:ASN:HA	6:W:298:PHE:CG	1.67	1.29
6:U:419:MET:CE	6:W:299:ILE:CD1	2.08	1.29
6:U:644:LEU:CG	6:V:548:LYS:HE3	1.54	1.29
6:V:459:LEU:HB3	6:W:414:GLN:NE2	1.33	1.29
2:B:1213:ALA:C	3:C:552:ASP:OD2	1.74	1.29
6:I:87:PHE:CD2	6:K:121:ALA:CB	2.16	1.29
6:I:253:VAL:HG12	6:K:36:LEU:CB	1.62	1.29
6:I:609:ARG:CD	6:K:29:THR:HA	1.63	1.29
6:J:456:ASN:OD1	6:K:412:ARG:CB	1.65	1.29
6:J:619:ASP:OD1	6:K:284:VAL:CG1	1.77	1.29
6:O:122:THR:HG21	6:P:90:ASN:CB	1.59	1.29
6:P:169:MET:HA	6:Q:541:SER:OG	1.30	1.29
6:U:42:ASN:ND2	6:V:235:LEU:CD2	1.96	1.29
6:U:82:PHE:HZ	6:V:242:PHE:CZ	1.50	1.29
6:U:414:GLN:CD	6:W:459:LEU:CG	2.04	1.29
6:V:82:PHE:HZ	6:W:242:PHE:CZ	1.49	1.29
2:B:880:LEU:CD2	4:D:27:GLN:O	1.81	1.28
6:I:82:PHE:HZ	6:J:242:PHE:CZ	1.50	1.28
6:J:82:PHE:HZ	6:K:242:PHE:CZ	1.49	1.28
6:O:253:VAL:HG12	6:Q:36:LEU:CB	1.61	1.28
6:O:456:ASN:ND2	6:P:412:ARG:N	1.79	1.28
6:O:619:ASP:OD1	6:P:284:VAL:CG1	1.75	1.28
6:O:644:LEU:CB	6:P:548:LYS:CE	2.06	1.28
6:P:458:THR:N	6:Q:412:ARG:HD2	0.97	1.28
6:U:82:PHE:CZ	6:V:242:PHE:CZ	2.20	1.28
6:U:533:ASP:HA	6:W:161:LYS:NZ	1.46	1.28
6:J:121:ALA:CB	6:K:87:PHE:CD2	2.15	1.28
6:O:412:ARG:CG	6:Q:456:ASN:OD1	1.74	1.28
6:O:456:ASN:CG	6:P:412:ARG:HG3	1.42	1.28
6:O:533:ASP:OD1	6:Q:161:LYS:CD	1.79	1.28
6:O:619:ASP:OD1	6:P:284:VAL:HG11	1.11	1.28
6:P:147:ARG:CG	6:W:100:LYS:NZ	1.96	1.28
5:R:44:GLY:C	6:W:400:ALA:HA	1.56	1.28
6:U:298:PHE:CE2	6:V:416:ARG:C	2.04	1.28
6:U:419:MET:CB	6:W:295:ARG:NH1	1.96	1.28
6:V:121:ALA:HB3	6:W:87:PHE:CD2	1.66	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:154:ARG:NH1	6:W:247:SER:H	1.23	1.28
2:B:409:MET:HE3	2:B:443:PRO:C	1.56	1.28
5:G:5:MET:CE	6:K:494:THR:HG21	1.64	1.28
6:J:456:ASN:OD1	6:K:412:ARG:CG	1.71	1.28
6:O:42:ASN:ND2	6:P:235:LEU:CD2	1.96	1.28
6:O:169:MET:O	6:P:541:SER:CA	1.81	1.28
6:O:416:ARG:O	6:Q:298:PHE:CZ	1.80	1.28
6:O:533:ASP:HA	6:Q:161:LYS:NZ	1.46	1.28
5:R:193:GLY:N	6:W:364:PRO:HB2	1.48	1.28
6:U:66:ASP:OD1	6:V:232:ALA:HB3	1.17	1.28
6:U:121:ALA:CB	6:V:87:PHE:CD2	2.16	1.28
6:U:298:PHE:CZ	6:V:416:ARG:O	1.80	1.28
6:U:418:ASN:ND2	6:W:300:LYS:NZ	1.75	1.28
6:V:528:ALA:CB	6:W:283:SER:HB2	1.62	1.28
6:X:587:GLY:HA3	5:Y:2:PRO:C	1.58	1.28
6:I:82:PHE:CZ	6:J:242:PHE:CZ	2.20	1.28
6:I:545:VAL:HG12	6:K:640:GLN:NE2	1.48	1.28
5:N:4:HIS:HE1	6:O:587:GLY:CA	1.44	1.28
6:O:161:LYS:HE2	6:P:533:ASP:CG	1.54	1.28
6:O:412:ARG:HD2	6:Q:458:THR:N	0.97	1.28
6:O:417:PHE:N	6:Q:298:PHE:HZ	1.12	1.28
6:P:154:ARG:HH11	6:Q:247:SER:N	1.28	1.28
6:U:612:SER:CB	6:W:160:GLN:HG2	1.56	1.28
3:C:713:ASN:CA	3:C:726:ARG:NH1	1.82	1.28
4:E:335:ALA:HB1	6:U:55:VAL:C	1.57	1.28
4:E:335:ALA:CB	6:U:56:ALA:HB2	1.62	1.28
5:G:4:HIS:HE1	6:K:587:GLY:CA	1.44	1.28
6:I:412:ARG:N	6:K:456:ASN:ND2	1.79	1.28
6:I:418:ASN:HA	6:K:298:PHE:CG	1.67	1.28
6:I:456:ASN:ND2	6:J:411:VAL:C	1.92	1.28
6:I:459:LEU:CD1	6:J:412:ARG:CA	2.12	1.28
6:J:530:ARG:CA	6:K:472:ARG:CD	2.03	1.28
5:M:5:MET:CE	6:Q:494:THR:HG21	1.63	1.28
5:N:4:HIS:NE2	6:O:586:VAL:HG22	1.48	1.28
6:O:121:ALA:CB	6:P:87:PHE:CD2	2.15	1.28
6:O:456:ASN:OD1	6:P:412:ARG:CB	1.66	1.28
6:O:541:SER:OG	6:Q:169:MET:HA	1.26	1.28
5:S:4:HIS:HE1	6:W:587:GLY:CA	1.44	1.28
6:U:609:ARG:CD	6:W:29:THR:HA	1.63	1.28
6:V:161:LYS:NZ	6:W:533:ASP:HA	1.49	1.28
6:V:530:ARG:N	6:W:472:ARG:HD3	1.33	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:795:ASP:OD2	4:D:249:LYS:CD	1.81	1.27
6:I:87:PHE:CD2	6:K:121:ALA:HB3	1.67	1.27
6:O:44:THR:OG1	6:P:84:LYS:CE	1.80	1.27
6:O:459:LEU:CD1	6:P:412:ARG:CA	2.12	1.27
6:U:456:ASN:ND2	6:V:411:VAL:C	1.92	1.27
6:V:161:LYS:CE	6:W:533:ASP:CG	2.07	1.27
6:V:640:GLN:CD	6:W:545:VAL:HG12	1.59	1.27
6:I:42:ASN:ND2	6:J:235:LEU:CD2	1.97	1.27
6:I:161:LYS:HE2	6:J:533:ASP:CB	1.60	1.27
6:J:640:GLN:NE2	6:K:545:VAL:HG12	1.47	1.27
6:O:122:THR:CG2	6:P:90:ASN:HB3	1.62	1.27
6:O:295:ARG:CZ	6:P:419:MET:HB3	1.63	1.27
6:O:418:ASN:HA	6:Q:298:PHE:CG	1.67	1.27
6:O:456:ASN:ND2	6:P:411:VAL:C	1.92	1.27
6:O:630:LEU:CD1	6:P:275:GLU:CG	2.12	1.27
6:P:459:LEU:HB3	6:Q:414:GLN:NE2	1.33	1.27
6:U:533:ASP:OD1	6:W:161:LYS:CD	1.79	1.27
2:B:431:THR:HG23	3:C:614:GLN:NE2	1.46	1.27
6:I:84:LYS:CD	6:K:44:THR:OG1	1.83	1.27
6:I:300:LYS:NZ	6:J:418:ASN:ND2	1.76	1.27
6:I:459:LEU:CD1	6:J:412:ARG:C	2.07	1.27
6:J:173:ASP:OD2	6:K:606:THR:HG21	1.27	1.27
5:L:4:HIS:NE2	6:P:586:VAL:HG22	1.49	1.27
5:L:44:GLY:C	6:Q:400:ALA:HA	1.56	1.27
6:O:44:THR:OG1	6:P:84:LYS:CD	1.83	1.27
6:O:87:PHE:CD2	6:Q:121:ALA:CB	2.15	1.27
6:O:459:LEU:CD1	6:P:412:ARG:HB2	1.64	1.27
6:P:298:PHE:CZ	6:Q:416:ARG:O	1.82	1.27
5:S:194:LEU:CD2	6:U:447:SER:HB2	1.65	1.27
6:U:242:PHE:CZ	6:W:82:PHE:CZ	2.22	1.27
6:V:640:GLN:NE2	6:W:545:VAL:HG12	1.48	1.27
5:H:4:HIS:NE2	6:I:586:VAL:HG22	1.47	1.27
6:I:193:ILE:HB	6:J:562:TYR:CZ	1.68	1.27
6:I:298:PHE:CZ	6:J:416:ARG:O	1.80	1.27
6:I:419:MET:CB	6:K:295:ARG:NH1	1.96	1.27
6:I:610:THR:HG22	6:K:30:ALA:CA	1.65	1.27
6:J:161:LYS:CE	6:K:533:ASP:CG	2.07	1.27
6:J:457:PRO:CD	6:K:411:VAL:CG1	1.99	1.27
6:J:641:ILE:CG1	6:K:545:VAL:CG1	2.01	1.27
6:O:195:PRO:CG	6:P:562:TYR:HB3	1.64	1.27
6:O:459:LEU:CD1	6:P:412:ARG:C	2.08	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:298:PHE:CG	6:Q:418:ASN:CA	2.18	1.27
6:P:640:GLN:NE2	6:Q:545:VAL:HG12	1.47	1.27
6:U:412:ARG:NE	6:W:459:LEU:HG	1.50	1.27
6:U:630:LEU:CD1	6:V:275:GLU:CG	2.11	1.27
6:V:299:ILE:CD1	6:W:419:MET:HE2	1.64	1.27
5:F:193:GLY:N	6:K:364:PRO:HB2	1.47	1.27
5:H:5:MET:HE2	6:I:494:THR:OG1	1.31	1.27
6:I:456:ASN:OD1	6:J:412:ARG:HG3	1.26	1.27
6:I:533:ASP:OD1	6:K:161:LYS:CG	1.80	1.27
6:I:609:ARG:CD	6:K:29:THR:CA	2.13	1.27
6:O:30:ALA:HB2	6:P:610:THR:CG2	1.63	1.27
6:O:412:ARG:NE	6:Q:459:LEU:HG	1.50	1.27
6:O:545:VAL:HG12	6:Q:640:GLN:NE2	1.48	1.27
6:P:459:LEU:CG	6:Q:412:ARG:CZ	2.13	1.27
6:U:66:ASP:CB	6:V:232:ALA:HB1	1.48	1.27
6:U:84:LYS:CD	6:W:44:THR:OG1	1.82	1.27
6:U:121:ALA:HB2	6:V:87:PHE:CE1	1.68	1.27
6:U:275:GLU:HG2	6:W:630:LEU:CD1	1.63	1.27
6:U:295:ARG:CZ	6:V:419:MET:HB3	1.64	1.27
6:V:458:THR:HA	6:W:412:ARG:CD	1.43	1.27
6:V:459:LEU:CG	6:W:412:ARG:CZ	2.13	1.27
2:B:376:LEU:HD22	3:C:795:ASP:OD1	1.32	1.26
2:B:880:LEU:HD21	4:D:27:GLN:O	1.26	1.26
4:D:390:ASN:CB	6:P:50:PRO:HG2	1.64	1.26
4:E:336:ALA:CA	6:U:55:VAL:H	1.47	1.26
6:I:195:PRO:CG	6:J:562:TYR:HB3	1.65	1.26
6:I:412:ARG:HD2	6:K:458:THR:N	0.96	1.26
6:I:416:ARG:O	6:K:298:PHE:CZ	1.80	1.26
6:J:121:ALA:HB2	6:K:87:PHE:CG	1.54	1.26
6:O:548:LYS:CE	6:Q:644:LEU:CG	2.02	1.26
5:S:5:MET:CE	6:W:494:THR:HG21	1.63	1.26
6:U:412:ARG:HD2	6:W:458:THR:N	0.96	1.26
6:U:459:LEU:CD1	6:V:412:ARG:CA	2.12	1.26
6:U:609:ARG:CD	6:W:29:THR:CA	2.13	1.26
6:V:619:ASP:OD1	6:W:284:VAL:HG11	1.14	1.26
2:B:1213:ALA:CB	3:C:552:ASP:OD1	1.79	1.26
5:G:5:MET:HE3	6:K:494:THR:CG2	1.64	1.26
6:I:411:VAL:C	6:K:456:ASN:HD22	1.43	1.26
6:I:412:ARG:NE	6:K:459:LEU:HG	1.50	1.26
6:I:630:LEU:CD1	6:J:275:GLU:CG	2.12	1.26
6:J:298:PHE:CG	6:K:418:ASN:CA	2.18	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:619:ASP:OD1	6:K:284:VAL:HG11	1.14	1.26
5:M:194:LEU:CD2	6:O:447:SER:HB2	1.65	1.26
6:O:300:LYS:NZ	6:P:418:ASN:ND2	1.76	1.26
6:P:160:GLN:HG2	6:Q:612:SER:CB	1.54	1.26
6:P:161:LYS:NZ	6:Q:533:ASP:HA	1.49	1.26
5:T:4:HIS:HE1	6:U:587:GLY:CA	1.44	1.26
6:U:29:THR:HB	6:V:609:ARG:CG	1.63	1.26
6:U:195:PRO:CG	6:V:562:TYR:HB3	1.64	1.26
6:U:456:ASN:OD1	6:V:412:ARG:HG3	1.28	1.26
6:V:458:THR:N	6:W:412:ARG:HD2	0.96	1.26
6:V:459:LEU:HD12	6:W:412:ARG:CB	1.63	1.26
6:I:29:THR:HB	6:J:609:ARG:CG	1.65	1.26
5:M:5:MET:HE3	6:Q:494:THR:CG2	1.64	1.26
6:O:154:ARG:NE	6:P:248:GLU:N	1.79	1.26
6:O:232:ALA:HB3	6:Q:66:ASP:OD1	1.16	1.26
6:O:545:VAL:CG1	6:Q:640:GLN:HE22	1.49	1.26
6:O:609:ARG:CD	6:Q:29:THR:CA	2.13	1.26
6:P:528:ALA:CB	6:Q:283:SER:CB	2.13	1.26
6:P:641:ILE:CG1	6:Q:545:VAL:CG1	2.01	1.26
5:R:4:HIS:NE2	6:V:586:VAL:HG22	1.49	1.26
5:T:4:HIS:NE2	6:U:586:VAL:HG22	1.48	1.26
6:U:411:VAL:C	6:W:456:ASN:HD22	1.42	1.26
6:V:456:ASN:ND2	6:W:412:ARG:N	1.79	1.26
2:B:1213:ALA:HB1	3:C:552:ASP:OD1	1.12	1.26
6:I:419:MET:HE2	6:K:299:ILE:CD1	1.63	1.26
6:O:82:PHE:HZ	6:P:242:PHE:CZ	1.49	1.26
6:O:456:ASN:OD1	6:P:412:ARG:CG	1.73	1.26
6:U:44:THR:CG2	6:V:84:LYS:NZ	1.97	1.26
6:U:284:VAL:CG1	6:W:619:ASP:OD1	1.74	1.26
6:U:412:ARG:CZ	6:W:459:LEU:HG	1.66	1.26
6:U:459:LEU:CD1	6:V:412:ARG:C	2.07	1.26
6:U:459:LEU:HD13	6:V:414:GLN:CD	1.51	1.26
3:C:714:SER:CA	3:C:726:ARG:NH2	1.97	1.26
6:I:30:ALA:HB2	6:J:610:THR:CG2	1.64	1.26
6:I:121:ALA:CB	6:J:87:PHE:CD2	2.15	1.26
6:I:284:VAL:HG11	6:K:619:ASP:OD1	1.12	1.26
6:I:459:LEU:CA	6:J:412:ARG:NH1	1.99	1.26
6:I:606:THR:HG21	6:K:173:ASP:OD2	1.31	1.26
6:J:41:LEU:HD21	6:K:242:PHE:CE2	1.71	1.26
6:J:459:LEU:CG	6:K:412:ARG:CZ	2.12	1.26
6:J:640:GLN:CD	6:K:545:VAL:HG12	1.59	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:419:MET:CB	6:Q:295:ARG:NH1	1.97	1.26
6:P:619:ASP:OD1	6:Q:284:VAL:CG1	1.78	1.26
6:U:169:MET:O	6:V:541:SER:CA	1.82	1.26
2:B:954:PRO:CG	4:D:39:SER:OG	1.75	1.25
2:B:956:HIS:NE2	4:D:43:HIS:ND1	1.84	1.25
3:C:436:LEU:HD11	4:E:187:GLN:CD	1.58	1.25
4:D:389:PHE:C	6:P:55:VAL:N	1.91	1.25
6:I:169:MET:O	6:J:541:SER:CA	1.82	1.25
6:J:44:THR:OG1	6:K:84:LYS:CE	1.81	1.25
6:J:458:THR:N	6:K:412:ARG:HD2	0.96	1.25
5:L:5:MET:CE	6:P:494:THR:HG21	1.66	1.25
6:O:275:GLU:HG2	6:Q:630:LEU:CD1	1.66	1.25
6:P:160:GLN:NE2	6:Q:612:SER:OG	1.68	1.25
6:U:29:THR:HA	6:V:609:ARG:CD	1.61	1.25
6:U:30:ALA:HB2	6:V:610:THR:CG2	1.65	1.25
6:U:84:LYS:HZ2	6:W:44:THR:CG2	1.49	1.25
6:U:412:ARG:CD	6:W:458:THR:HA	1.53	1.25
6:I:160:GLN:HG2	6:J:612:SER:CB	1.62	1.25
6:I:545:VAL:CG1	6:K:641:ILE:CG1	1.90	1.25
6:J:161:LYS:NZ	6:K:533:ASP:HA	1.48	1.25
6:J:459:LEU:CD1	6:K:414:GLN:NE2	1.90	1.25
6:J:459:LEU:HD12	6:K:412:ARG:CB	1.64	1.25
6:O:84:LYS:CD	6:Q:44:THR:OG1	1.83	1.25
6:P:459:LEU:CB	6:Q:414:GLN:HE22	1.36	1.25
6:P:459:LEU:CA	6:Q:412:ARG:CZ	2.15	1.25
6:U:459:LEU:CD1	6:V:412:ARG:HB2	1.64	1.25
6:V:44:THR:OG1	6:W:84:LYS:CD	1.84	1.25
6:V:298:PHE:CG	6:W:418:ASN:CA	2.17	1.25
6:V:630:LEU:CD1	6:W:275:GLU:HG2	1.65	1.25
6:V:644:LEU:CB	6:W:548:LYS:CE	2.14	1.25
2:B:309:LEU:CA	2:B:399:ARG:NH1	2.00	1.25
2:B:952:PRO:O	4:D:35:ARG:HG3	1.32	1.25
6:I:44:THR:OG1	6:J:84:LYS:CD	1.83	1.25
6:I:295:ARG:CZ	6:J:419:MET:HB3	1.63	1.25
6:I:530:ARG:CA	6:J:472:ARG:CD	1.94	1.25
6:J:160:GLN:NE2	6:K:612:SER:OG	1.69	1.25
6:J:528:ALA:CB	6:K:283:SER:CB	2.13	1.25
6:J:630:LEU:CD1	6:K:275:GLU:HG2	1.66	1.25
5:N:5:MET:HE2	6:O:494:THR:OG1	1.31	1.25
6:P:44:THR:OG1	6:Q:84:LYS:CE	1.81	1.25
6:O:160:GLN:HG2	6:P:612:SER:CB	1.64	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:548:LYS:CE	6:Q:644:LEU:CB	2.12	1.25
6:O:606:THR:HG21	6:Q:173:ASP:OD2	1.32	1.25
6:P:630:LEU:CD1	6:Q:275:GLU:HG2	1.65	1.25
5:S:5:MET:HE3	6:W:494:THR:CG2	1.64	1.25
6:U:29:THR:HB	6:V:609:ARG:CD	1.66	1.25
6:U:44:THR:OG1	6:V:84:LYS:CD	1.82	1.25
6:U:278:THR:O	6:W:625:ARG:NH2	1.70	1.25
2:B:792:GLN:NE2	4:D:105:ALA:HB2	1.48	1.25
6:I:459:LEU:CD1	6:J:412:ARG:HB2	1.65	1.25
6:J:459:LEU:CA	6:K:412:ARG:CZ	2.15	1.25
6:O:411:VAL:HG11	6:Q:457:PRO:CG	1.45	1.25
6:P:41:LEU:HD21	6:Q:242:PHE:CE2	1.71	1.25
6:P:42:ASN:OD1	6:Q:84:LYS:CD	1.85	1.25
6:P:299:ILE:CD1	6:Q:419:MET:HE2	1.64	1.25
6:P:459:LEU:CD1	6:Q:412:ARG:HB2	1.67	1.25
5:R:5:MET:CE	6:V:494:THR:HG21	1.66	1.25
6:U:416:ARG:O	6:W:298:PHE:CZ	1.81	1.25
6:U:459:LEU:CB	6:V:412:ARG:CZ	2.13	1.25
6:U:610:THR:CG2	6:W:30:ALA:HB2	1.67	1.25
6:U:625:ARG:NH2	6:V:278:THR:O	1.70	1.25
2:B:880:LEU:C	4:D:31:GLY:O	1.77	1.25
4:E:401:ALA:HB2	6:U:52:GLY:CA	1.65	1.25
6:I:173:ASP:OD2	6:J:606:THR:HG21	1.36	1.25
6:I:412:ARG:CZ	6:K:459:LEU:HG	1.67	1.25
6:I:414:GLN:CD	6:K:459:LEU:HD22	1.58	1.25
5:L:193:GLY:HA3	6:Q:364:PRO:CB	1.67	1.25
6:O:284:VAL:HG11	6:Q:619:ASP:OD1	1.12	1.25
6:O:562:TYR:HB3	6:Q:195:PRO:CG	1.67	1.25
6:O:610:THR:HG22	6:Q:30:ALA:CA	1.64	1.25
6:P:161:LYS:CE	6:Q:533:ASP:CG	2.07	1.25
6:U:29:THR:CB	6:V:609:ARG:CG	2.15	1.25
6:U:90:ASN:HB3	6:W:122:THR:CG2	1.67	1.25
6:U:541:SER:OG	6:W:169:MET:HA	1.28	1.25
6:U:619:ASP:OD1	6:V:284:VAL:HG11	1.11	1.25
2:B:404:MET:SD	4:D:46:ILE:HD13	1.76	1.24
5:F:5:MET:CE	6:J:494:THR:HG21	1.66	1.24
6:I:456:ASN:HD22	6:J:411:VAL:C	1.43	1.24
6:I:562:TYR:OH	6:K:193:ILE:CG2	1.85	1.24
6:J:42:ASN:OD1	6:K:84:LYS:CD	1.85	1.24
6:J:298:PHE:CZ	6:K:417:PHE:C	2.14	1.24
6:O:242:PHE:CZ	6:Q:82:PHE:CZ	2.23	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:278:THR:O	6:Q:625:ARG:NH2	1.70	1.24
6:O:298:PHE:CZ	6:P:416:ARG:O	1.83	1.24
6:O:412:ARG:CZ	6:Q:459:LEU:CG	2.15	1.24
6:P:154:ARG:NH1	6:Q:247:SER:H	1.23	1.24
6:P:619:ASP:OD1	6:Q:284:VAL:HG11	1.13	1.24
6:U:412:ARG:CZ	6:W:459:LEU:CG	2.15	1.24
2:B:1182:ASN:N	4:D:52:PRO:CB	1.86	1.24
6:I:610:THR:CG2	6:K:30:ALA:HB2	1.66	1.24
6:O:562:TYR:OH	6:Q:193:ILE:HB	1.36	1.24
6:O:610:THR:CG2	6:Q:30:ALA:HB2	1.66	1.24
6:O:625:ARG:NH2	6:P:278:THR:O	1.70	1.24
6:P:459:LEU:HD13	6:Q:414:GLN:CD	1.44	1.24
6:P:640:GLN:CD	6:Q:545:VAL:HG12	1.60	1.24
6:V:42:ASN:OD1	6:W:84:LYS:CD	1.85	1.24
2:B:376:LEU:CD2	3:C:795:ASP:OD1	1.85	1.24
6:I:242:PHE:CZ	6:K:82:PHE:CZ	2.23	1.24
6:I:619:ASP:OD1	6:J:284:VAL:HG11	1.11	1.24
6:J:169:MET:HA	6:K:541:SER:OG	1.27	1.24
6:J:193:ILE:CG2	6:K:562:TYR:OH	1.81	1.24
6:J:459:LEU:HD22	6:K:414:GLN:CD	1.56	1.24
6:O:29:THR:HB	6:P:609:ARG:CD	1.67	1.24
6:O:411:VAL:C	6:Q:456:ASN:HD22	1.42	1.24
6:P:295:ARG:CZ	6:Q:419:MET:HB3	1.67	1.24
6:P:459:LEU:CG	6:Q:414:GLN:HE22	1.41	1.24
5:S:5:MET:CE	6:W:494:THR:OG1	1.85	1.24
6:U:412:ARG:HG3	6:W:456:ASN:OD1	1.31	1.24
6:U:419:MET:HE2	6:W:299:ILE:CD1	1.63	1.24
6:U:548:LYS:CE	6:W:644:LEU:CB	2.13	1.24
6:V:161:LYS:CD	6:W:533:ASP:OD1	1.86	1.24
6:V:459:LEU:CD1	6:W:412:ARG:HB2	1.68	1.24
3:C:795:ASP:OD2	4:D:249:LYS:HD2	1.17	1.24
5:G:5:MET:CE	6:K:494:THR:OG1	1.84	1.24
6:I:29:THR:HB	6:J:609:ARG:CD	1.67	1.24
6:I:612:SER:OG	6:K:160:GLN:NE2	1.68	1.24
6:J:459:LEU:CG	6:K:414:GLN:HE22	1.41	1.24
5:M:4:HIS:NE2	6:Q:586:VAL:HG22	1.52	1.24
6:O:29:THR:HB	6:P:609:ARG:CG	1.65	1.24
6:O:412:ARG:CZ	6:Q:459:LEU:HG	1.66	1.24
6:O:609:ARG:CD	6:Q:29:THR:HA	1.64	1.24
6:P:300:LYS:NZ	6:Q:418:ASN:OD1	1.69	1.24
6:U:160:GLN:HG2	6:V:612:SER:CB	1.63	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:193:ILE:CG2	6:W:562:TYR:OH	1.81	1.24
6:V:528:ALA:CB	6:W:283:SER:CB	2.14	1.24
4:E:332:PRO:C	6:U:54:SER:OG	1.80	1.24
6:I:459:LEU:HD12	6:J:412:ARG:C	1.61	1.24
6:J:644:LEU:CG	6:K:548:LYS:CE	2.02	1.24
5:N:5:MET:CE	6:O:494:THR:OG1	1.86	1.24
6:O:66:ASP:CB	6:P:232:ALA:HB1	1.47	1.24
6:O:412:ARG:CG	6:Q:456:ASN:ND2	2.02	1.24
5:R:193:GLY:HA3	6:W:364:PRO:CB	1.66	1.24
5:S:4:HIS:NE2	6:W:586:VAL:HG22	1.53	1.24
6:U:193:ILE:HB	6:V:562:TYR:CZ	1.68	1.24
6:U:232:ALA:HB1	6:W:66:ASP:CB	1.56	1.24
6:U:459:LEU:CA	6:V:412:ARG:NH1	2.00	1.24
6:U:562:TYR:HB3	6:W:195:PRO:CG	1.67	1.24
2:B:882:PRO:CB	2:B:962:GLN:NE2	2.00	1.23
5:G:193:GLY:N	6:I:364:PRO:HB2	1.53	1.23
6:I:44:THR:OG1	6:J:84:LYS:CE	1.80	1.23
6:I:90:ASN:HB3	6:K:122:THR:CG2	1.68	1.23
6:I:412:ARG:CZ	6:K:459:LEU:CG	2.15	1.23
6:I:459:LEU:CB	6:J:412:ARG:CZ	2.14	1.23
6:I:533:ASP:CB	6:K:161:LYS:HE2	1.67	1.23
6:J:300:LYS:HZ1	6:K:418:ASN:CG	1.40	1.23
5:M:5:MET:CE	6:Q:494:THR:OG1	1.85	1.23
5:M:44:GLY:CA	6:O:400:ALA:CB	2.12	1.23
6:O:44:THR:CG2	6:P:84:LYS:NZ	1.96	1.23
6:O:84:LYS:CE	6:Q:44:THR:OG1	1.80	1.23
6:O:562:TYR:CE1	6:Q:193:ILE:O	1.88	1.23
6:O:562:TYR:OH	6:Q:193:ILE:CG2	1.85	1.23
6:P:298:PHE:CZ	6:Q:417:PHE:C	2.14	1.23
6:U:242:PHE:CE2	6:W:41:LEU:CD2	2.21	1.23
6:U:248:GLU:N	6:W:154:ARG:NE	1.86	1.23
6:U:644:LEU:CG	6:V:548:LYS:CE	1.97	1.23
6:V:300:LYS:NZ	6:W:418:ASN:OD1	1.69	1.23
6:V:459:LEU:CA	6:W:412:ARG:CZ	2.15	1.23
3:C:377:ILE:CG2	3:C:381:VAL:N	2.00	1.23
4:D:389:PHE:O	6:P:55:VAL:CA	1.85	1.23
5:G:194:LEU:CD2	6:I:447:SER:HB2	1.65	1.23
6:I:29:THR:CB	6:J:609:ARG:CG	2.15	1.23
6:I:300:LYS:NZ	6:J:418:ASN:OD1	1.71	1.23
6:I:545:VAL:CG1	6:K:640:GLN:HE22	1.50	1.23
6:I:562:TYR:CZ	6:K:193:ILE:HB	1.72	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:562:TYR:HB3	6:K:195:PRO:CG	1.67	1.23
6:J:295:ARG:CZ	6:K:419:MET:HB3	1.67	1.23
5:L:192:THR:C	6:Q:364:PRO:HB2	1.62	1.23
5:N:193:GLY:N	6:P:364:PRO:HB2	1.53	1.23
6:O:90:ASN:HB3	6:Q:122:THR:CG2	1.68	1.23
6:P:147:ARG:HB3	6:W:100:LYS:NZ	1.53	1.23
6:U:284:VAL:HG11	6:W:619:ASP:OD1	1.13	1.23
6:U:418:ASN:OD1	6:W:300:LYS:NZ	1.70	1.23
6:U:456:ASN:HD22	6:V:411:VAL:C	1.45	1.23
6:U:530:ARG:CZ	6:V:482:ASP:OD2	1.87	1.23
6:U:545:VAL:CG1	6:W:640:GLN:HE22	1.50	1.23
6:V:36:LEU:HB3	6:W:253:VAL:CG1	1.68	1.23
6:V:41:LEU:HD21	6:W:242:PHE:CE2	1.72	1.23
6:V:456:ASN:ND2	6:W:412:ARG:CB	1.97	1.23
2:B:397:HIS:O	2:B:400:GLU:HG2	1.33	1.23
2:B:882:PRO:HG2	2:B:962:GLN:CD	1.63	1.23
5:F:4:HIS:NE2	6:J:586:VAL:HG22	1.49	1.23
6:I:84:LYS:NZ	6:K:44:THR:CG2	2.02	1.23
6:J:630:LEU:CD1	6:K:275:GLU:CG	2.15	1.23
6:P:456:ASN:OD1	6:Q:412:ARG:CG	1.72	1.23
5:S:5:MET:CE	6:W:494:THR:CG2	2.17	1.23
6:U:193:ILE:HB	6:V:562:TYR:OH	1.35	1.23
6:U:459:LEU:HD12	6:V:412:ARG:C	1.62	1.23
6:U:533:ASP:CB	6:W:161:LYS:HE2	1.68	1.23
6:V:41:LEU:CD2	6:W:242:PHE:CE2	2.22	1.23
2:B:376:LEU:O	3:C:797:ALA:HA	1.24	1.23
4:D:390:ASN:HA	6:P:55:VAL:CG2	1.68	1.23
6:I:232:ALA:HB1	6:K:66:ASP:CB	1.57	1.23
6:J:32:PRO:O	6:K:613:LEU:HD21	1.29	1.23
6:J:459:LEU:CB	6:K:412:ARG:CZ	2.17	1.23
5:M:193:GLY:N	6:O:364:PRO:HB2	1.53	1.23
6:O:29:THR:CB	6:P:609:ARG:CG	2.16	1.23
6:O:412:ARG:CZ	6:Q:459:LEU:CA	2.16	1.23
6:P:161:LYS:CD	6:Q:533:ASP:OD1	1.85	1.23
6:U:169:MET:HA	6:V:541:SER:OG	1.30	1.23
6:U:412:ARG:CG	6:W:456:ASN:ND2	2.02	1.23
6:U:562:TYR:OH	6:W:193:ILE:CG2	1.85	1.23
6:V:82:PHE:CZ	6:W:242:PHE:CZ	2.26	1.23
6:V:630:LEU:CD1	6:W:275:GLU:CG	2.15	1.23
6:V:644:LEU:CG	6:W:548:LYS:CE	2.04	1.23
4:D:343:GLN:NE2	6:V:54:SER:OG	1.72	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:161:LYS:CD	6:K:533:ASP:OD1	1.86	1.23
6:O:418:ASN:OD1	6:Q:300:LYS:NZ	1.70	1.23
6:O:459:LEU:CB	6:P:412:ARG:CZ	2.14	1.23
6:O:533:ASP:HA	6:Q:161:LYS:CE	1.67	1.23
6:P:193:ILE:CG2	6:Q:562:TYR:OH	1.83	1.23
5:R:192:THR:C	6:W:364:PRO:HB2	1.62	1.23
5:T:5:MET:HE2	6:U:494:THR:OG1	1.30	1.23
6:U:545:VAL:HG12	6:W:640:GLN:NE2	1.50	1.23
6:V:333:PRO:C	6:W:411:VAL:CG2	2.11	1.23
5:H:193:GLY:N	6:J:364:PRO:HB2	1.54	1.22
6:I:44:THR:CG2	6:J:84:LYS:NZ	1.96	1.22
6:I:242:PHE:CE2	6:K:41:LEU:CD2	2.22	1.22
6:J:44:THR:OG1	6:K:84:LYS:CD	1.85	1.22
6:J:82:PHE:CZ	6:K:242:PHE:CZ	2.26	1.22
6:J:300:LYS:NZ	6:K:418:ASN:OD1	1.69	1.22
6:J:644:LEU:CB	6:K:548:LYS:CE	2.13	1.22
6:O:412:ARG:CB	6:Q:456:ASN:ND2	2.00	1.22
6:U:411:VAL:HG12	6:W:457:PRO:CG	1.54	1.22
6:U:610:THR:HG22	6:W:30:ALA:CA	1.65	1.22
4:E:400:THR:C	6:U:52:GLY:O	1.83	1.22
4:E:401:ALA:CA	6:U:52:GLY:CA	2.13	1.22
6:I:29:THR:CB	6:J:609:ARG:HD2	1.69	1.22
6:J:36:LEU:HB3	6:K:253:VAL:CG1	1.69	1.22
6:O:84:LYS:HZ2	6:Q:44:THR:CG2	1.51	1.22
6:O:300:LYS:NZ	6:P:418:ASN:OD1	1.70	1.22
6:O:459:LEU:CA	6:P:412:ARG:NH1	2.00	1.22
6:P:36:LEU:HB3	6:Q:253:VAL:CG1	1.68	1.22
6:U:298:PHE:CG	6:V:418:ASN:CA	2.22	1.22
6:V:42:ASN:HD22	6:W:235:LEU:CD2	1.49	1.22
6:X:587:GLY:HA3	5:Y:2:PRO:O	1.34	1.22
2:B:397:HIS:HA	2:B:400:GLU:OE2	1.34	1.22
3:C:383:ALA:O	3:C:1197:TYR:CD2	1.92	1.22
4:E:339:LEU:CG	6:U:55:VAL:CG1	2.06	1.22
5:F:193:GLY:HA3	6:K:364:PRO:CB	1.67	1.22
5:H:5:MET:CE	6:I:494:THR:OG1	1.86	1.22
6:I:530:ARG:CZ	6:J:482:ASP:OD2	1.88	1.22
6:I:562:TYR:CE1	6:K:193:ILE:CA	2.18	1.22
6:J:41:LEU:CD2	6:K:242:PHE:CE2	2.21	1.22
6:J:459:LEU:CD1	6:K:412:ARG:HB2	1.69	1.22
5:N:44:GLY:CA	6:P:400:ALA:C	2.09	1.22
6:O:173:ASP:OD2	6:P:606:THR:HG21	1.35	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:297:ALA:C	6:P:409:ILE:HD11	1.64	1.22
6:O:459:LEU:CB	6:P:414:GLN:NE2	1.72	1.22
6:P:41:LEU:CD2	6:Q:242:PHE:CE2	2.22	1.22
6:P:630:LEU:CD1	6:Q:275:GLU:CG	2.16	1.22
5:T:5:MET:CE	6:U:494:THR:OG1	1.85	1.22
5:T:44:GLY:C	6:V:400:ALA:HA	1.65	1.22
6:V:298:PHE:CZ	6:W:416:ARG:O	1.81	1.22
6:V:459:LEU:CG	6:W:414:GLN:HE22	1.42	1.22
2:B:437:ARG:NH1	4:D:173:ALA:CB	2.02	1.22
2:B:952:PRO:C	4:D:35:ARG:CZ	2.13	1.22
3:C:884:PRO:HG2	3:C:965:GLU:CD	1.62	1.22
5:G:4:HIS:NE2	6:K:586:VAL:HG22	1.53	1.22
5:G:193:GLY:CA	6:I:364:PRO:HB2	1.69	1.22
6:I:248:GLU:N	6:K:154:ARG:NE	1.85	1.22
6:I:278:THR:O	6:K:625:ARG:NH2	1.71	1.22
6:I:548:LYS:CE	6:K:644:LEU:CB	2.13	1.22
6:I:612:SER:CA	6:K:160:GLN:NE2	1.85	1.22
6:J:30:ALA:CA	6:K:610:THR:HG22	1.70	1.22
5:N:193:GLY:CA	6:P:364:PRO:CG	2.18	1.22
6:O:456:ASN:HD22	6:P:411:VAL:C	1.46	1.22
6:P:82:PHE:CZ	6:Q:242:PHE:CZ	2.26	1.22
6:P:333:PRO:C	6:Q:411:VAL:CG2	2.11	1.22
6:U:160:GLN:NE2	6:V:612:SER:OG	1.67	1.22
6:U:300:LYS:NZ	6:V:418:ASN:OD1	1.70	1.22
6:U:411:VAL:CG1	6:W:457:PRO:CD	2.08	1.22
6:U:412:ARG:CZ	6:W:459:LEU:CA	2.18	1.22
6:V:30:ALA:CA	6:W:610:THR:HG22	1.70	1.22
6:V:456:ASN:OD1	6:W:412:ARG:CG	1.72	1.22
6:V:459:LEU:HD22	6:W:414:GLN:CD	1.55	1.22
2:B:409:MET:HE3	2:B:443:PRO:O	1.40	1.22
4:D:392:ALA:CB	6:P:49:ARG:CZ	2.18	1.22
5:G:5:MET:CE	6:K:494:THR:CG2	2.17	1.22
6:I:275:GLU:HG2	6:K:630:LEU:CD1	1.65	1.22
6:I:533:ASP:HA	6:K:161:LYS:CE	1.69	1.22
6:I:548:LYS:CE	6:K:644:LEU:CG	2.02	1.22
6:I:625:ARG:NH2	6:J:278:THR:O	1.70	1.22
6:O:29:THR:CB	6:P:609:ARG:HD2	1.69	1.22
6:O:193:ILE:HB	6:P:562:TYR:CZ	1.69	1.22
6:O:411:VAL:CG2	6:Q:333:PRO:C	2.10	1.22
6:P:528:ALA:HB3	6:Q:283:SER:CB	1.70	1.22
6:U:161:LYS:HE2	6:V:533:ASP:CA	1.70	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:242:PHE:CE2	6:W:41:LEU:HD21	1.75	1.22
6:U:530:ARG:CA	6:V:472:ARG:CD	1.94	1.22
6:U:640:GLN:NE2	6:V:545:VAL:HG12	1.54	1.22
6:U:644:LEU:CA	6:V:548:LYS:HE3	1.70	1.22
6:V:295:ARG:CZ	6:W:419:MET:HB3	1.68	1.22
3:C:715:VAL:CG2	3:C:726:ARG:CZ	2.16	1.21
4:E:400:THR:HG21	6:U:53:THR:CG2	1.70	1.21
6:I:147:ARG:CD	6:Q:100:LYS:HZ3	1.43	1.21
6:I:193:ILE:HB	6:J:562:TYR:OH	1.36	1.21
6:I:242:PHE:CE2	6:K:41:LEU:HD21	1.74	1.21
6:J:298:PHE:CB	6:K:418:ASN:CA	2.14	1.21
6:J:640:GLN:NE2	6:K:545:VAL:CG1	2.03	1.21
6:O:161:LYS:HE2	6:P:533:ASP:CA	1.70	1.21
6:O:242:PHE:CE2	6:Q:41:LEU:CD2	2.22	1.21
6:O:298:PHE:CG	6:P:418:ASN:CA	2.22	1.21
6:P:459:LEU:CB	6:Q:412:ARG:CZ	2.17	1.21
6:U:29:THR:CB	6:V:609:ARG:HD2	1.70	1.21
6:U:414:GLN:CD	6:W:459:LEU:HD22	1.57	1.21
6:U:562:TYR:OH	6:W:193:ILE:HB	1.37	1.21
6:V:459:LEU:CB	6:W:412:ARG:CZ	2.17	1.21
1:A:377:ARG:CZ	6:I:57:THR:CG2	2.18	1.21
4:D:390:ASN:ND2	6:P:53:THR:O	1.72	1.21
5:F:192:THR:C	6:K:364:PRO:HB2	1.62	1.21
5:H:4:HIS:CE1	6:I:586:VAL:C	2.18	1.21
5:H:193:GLY:CA	6:J:364:PRO:CG	2.19	1.21
6:I:412:ARG:CZ	6:K:459:LEU:CA	2.17	1.21
5:N:44:GLY:C	6:P:400:ALA:HA	1.64	1.21
6:O:248:GLU:N	6:Q:154:ARG:NE	1.86	1.21
6:O:411:VAL:CG1	6:Q:457:PRO:CD	2.10	1.21
6:O:533:ASP:CB	6:Q:161:LYS:HE2	1.68	1.21
6:O:562:TYR:OH	6:Q:193:ILE:CB	1.87	1.21
6:P:44:THR:OG1	6:Q:84:LYS:CD	1.86	1.21
5:S:4:HIS:CB	6:W:586:VAL:HG21	1.69	1.21
6:U:41:LEU:CD2	6:V:242:PHE:CE2	2.24	1.21
6:U:458:THR:HA	6:V:412:ARG:CD	1.45	1.21
6:U:533:ASP:HA	6:W:161:LYS:CE	1.71	1.21
6:U:545:VAL:CG1	6:W:641:ILE:CG1	1.90	1.21
6:V:193:ILE:CB	6:W:562:TYR:OH	1.88	1.21
2:B:380:GLU:N	3:C:798:VAL:HG13	1.38	1.21
2:B:952:PRO:O	4:D:35:ARG:NE	1.71	1.21
2:B:1182:ASN:CB	4:D:52:PRO:CB	2.06	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:392:ALA:HB2	6:P:49:ARG:CZ	1.70	1.21
5:H:44:GLY:C	6:J:400:ALA:HA	1.64	1.21
6:I:528:ALA:HB3	6:J:283:SER:CB	1.70	1.21
6:I:562:TYR:OH	6:K:193:ILE:CB	1.88	1.21
6:I:562:TYR:HB3	6:K:195:PRO:CD	1.70	1.21
5:M:5:MET:CE	6:Q:494:THR:CG2	2.16	1.21
6:O:562:TYR:CZ	6:Q:193:ILE:HB	1.72	1.21
5:S:44:GLY:CA	6:U:400:ALA:CB	2.12	1.21
5:S:193:GLY:CA	6:U:364:PRO:HB2	1.70	1.21
5:T:5:MET:CE	6:U:494:THR:HG21	1.69	1.21
5:T:193:GLY:CA	6:V:364:PRO:CG	2.19	1.21
6:U:562:TYR:CZ	6:W:193:ILE:HB	1.73	1.21
6:V:169:MET:HA	6:W:541:SER:OG	1.28	1.21
6:X:588:ILE:N	5:Y:2:PRO:HG2	1.53	1.21
3:C:404:MET:CE	4:E:175:MET:HB2	1.68	1.21
6:I:412:ARG:CB	6:K:456:ASN:ND2	1.99	1.21
6:I:562:TYR:OH	6:K:193:ILE:HB	1.38	1.21
6:J:161:LYS:CG	6:K:533:ASP:OD1	1.89	1.21
6:P:122:THR:CG2	6:Q:90:ASN:HB3	1.71	1.21
6:V:528:ALA:CB	6:W:283:SER:CA	2.18	1.21
2:B:407:ARG:CG	4:D:184:HIS:HE1	1.49	1.21
2:B:1182:ASN:CA	4:D:52:PRO:CG	1.85	1.21
5:G:4:HIS:CB	6:K:586:VAL:HG21	1.70	1.21
6:I:297:ALA:C	6:J:409:ILE:HD11	1.64	1.21
6:J:66:ASP:CB	6:K:232:ALA:HB1	1.63	1.21
6:J:459:LEU:CB	6:K:414:GLN:HE22	1.38	1.21
5:M:193:GLY:CA	6:O:364:PRO:HB2	1.70	1.21
6:O:193:ILE:HB	6:P:562:TYR:OH	1.37	1.21
6:P:530:ARG:NH2	6:Q:482:ASP:OD2	1.74	1.21
5:S:193:GLY:N	6:U:364:PRO:HB2	1.53	1.21
6:U:528:ALA:CB	6:V:283:SER:CA	2.18	1.21
6:U:606:THR:HG21	6:W:173:ASP:OD2	1.31	1.21
6:V:457:PRO:C	6:W:412:ARG:HD2	1.66	1.21
4:D:389:PHE:O	6:P:55:VAL:N	1.73	1.20
6:I:411:VAL:CG2	6:K:333:PRO:C	2.11	1.20
6:P:30:ALA:CA	6:Q:610:THR:HG22	1.70	1.20
6:P:528:ALA:CB	6:Q:283:SER:CA	2.19	1.20
6:P:644:LEU:CB	6:Q:548:LYS:CE	2.15	1.20
5:F:194:LEU:HD22	6:K:447:SER:OG	1.39	1.20
5:H:5:MET:CE	6:I:494:THR:HG21	1.71	1.20
6:I:247:SER:H	6:K:154:ARG:NH1	1.33	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:5:MET:CE	6:O:494:THR:HG21	1.70	1.20
6:O:41:LEU:CD2	6:P:242:PHE:CE2	2.24	1.20
6:O:411:VAL:HG12	6:Q:457:PRO:CG	1.54	1.20
6:O:528:ALA:CB	6:P:283:SER:CA	2.18	1.20
5:T:4:HIS:CE1	6:U:586:VAL:C	2.19	1.20
5:T:193:GLY:N	6:V:364:PRO:HB2	1.54	1.20
6:U:173:ASP:OD2	6:V:606:THR:HG21	1.36	1.20
6:V:459:LEU:CD2	6:W:409:ILE:HG22	1.71	1.20
6:I:412:ARG:CD	6:K:458:THR:HA	1.52	1.20
6:O:84:LYS:NZ	6:Q:44:THR:CG2	2.03	1.20
6:O:90:ASN:CB	6:Q:122:THR:HG21	1.69	1.20
6:O:242:PHE:CE2	6:Q:41:LEU:HD21	1.75	1.20
6:O:459:LEU:HG	6:P:412:ARG:NE	1.56	1.20
6:O:530:ARG:CZ	6:P:482:ASP:OD2	1.88	1.20
6:U:84:LYS:NZ	6:W:44:THR:CG2	2.02	1.20
6:U:297:ALA:C	6:V:409:ILE:HD11	1.65	1.20
6:U:411:VAL:CG2	6:W:333:PRO:C	2.10	1.20
6:U:562:TYR:CE1	6:W:193:ILE:CA	2.18	1.20
2:B:434:ILE:HD13	3:C:616:SER:OG	1.38	1.20
3:C:384:MET:HB3	3:C:1197:TYR:CZ	1.76	1.20
3:C:714:SER:C	3:C:726:ARG:HH21	1.39	1.20
4:D:390:ASN:H	6:P:54:SER:C	1.42	1.20
5:F:193:GLY:CA	6:K:364:PRO:HB2	1.72	1.20
6:I:90:ASN:CB	6:K:122:THR:HG21	1.70	1.20
6:I:412:ARG:CA	6:K:459:LEU:CD1	2.20	1.20
6:I:418:ASN:OD1	6:K:300:LYS:NZ	1.70	1.20
6:I:459:LEU:HG	6:J:412:ARG:NE	1.55	1.20
6:O:412:ARG:CD	6:Q:458:THR:HA	1.53	1.20
6:P:161:LYS:CG	6:Q:533:ASP:OD1	1.90	1.20
6:P:193:ILE:CB	6:Q:562:TYR:OH	1.89	1.20
5:S:5:MET:HE2	6:W:494:THR:OG1	1.38	1.20
6:U:409:ILE:HD11	6:W:297:ALA:C	1.66	1.20
6:V:161:LYS:CG	6:W:533:ASP:OD1	1.89	1.20
6:V:298:PHE:CZ	6:W:417:PHE:C	2.15	1.20
6:X:587:GLY:O	5:Y:2:PRO:HD2	1.39	1.20
2:B:953:GLY:N	4:D:35:ARG:HD3	1.43	1.20
4:E:335:ALA:CA	6:U:55:VAL:O	1.89	1.20
5:H:194:LEU:CD2	6:J:447:SER:HB2	1.71	1.20
6:I:84:LYS:CD	6:K:42:ASN:OD1	1.89	1.20
5:N:4:HIS:CE1	6:O:586:VAL:C	2.18	1.20
6:O:562:TYR:HB3	6:Q:195:PRO:CD	1.70	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:298:PHE:CD1	6:Q:417:PHE:O	1.95	1.20
6:P:456:ASN:HD22	6:Q:411:VAL:C	1.48	1.20
5:R:193:GLY:CA	6:W:364:PRO:HB2	1.72	1.20
6:U:84:LYS:CE	6:W:44:THR:OG1	1.81	1.20
6:U:90:ASN:CB	6:W:122:THR:HG21	1.70	1.20
6:U:412:ARG:CA	6:W:459:LEU:CD1	2.19	1.20
2:B:404:MET:HE3	4:D:46:ILE:CD1	1.72	1.19
2:B:954:PRO:HG3	4:D:39:SER:CA	1.70	1.19
4:E:401:ALA:N	6:U:52:GLY:C	1.99	1.19
6:I:528:ALA:CB	6:J:283:SER:CA	2.18	1.19
6:J:459:LEU:CD2	6:K:409:ILE:HG22	1.70	1.19
6:J:528:ALA:CB	6:K:283:SER:CA	2.20	1.19
5:L:193:GLY:CA	6:Q:364:PRO:CB	2.20	1.19
6:P:193:ILE:HB	6:Q:562:TYR:OH	1.42	1.19
6:P:457:PRO:C	6:Q:412:ARG:HD2	1.67	1.19
6:P:530:ARG:CZ	6:Q:482:ASP:OD2	1.90	1.19
6:V:459:LEU:CB	6:W:414:GLN:HE22	1.39	1.19
6:V:530:ARG:NH2	6:W:482:ASP:OD2	1.74	1.19
4:E:400:THR:HB	6:U:53:THR:CA	1.72	1.19
6:I:545:VAL:HG12	6:K:640:GLN:CD	1.67	1.19
6:I:609:ARG:HD2	6:K:29:THR:CA	1.68	1.19
6:J:456:ASN:HD22	6:K:411:VAL:C	1.49	1.19
5:M:4:HIS:CB	6:Q:586:VAL:HG21	1.70	1.19
6:O:417:PHE:C	6:Q:298:PHE:CZ	2.18	1.19
5:R:194:LEU:CD2	6:W:447:SER:HB2	1.72	1.19
6:V:122:THR:CG2	6:W:90:ASN:HB3	1.71	1.19
6:V:298:PHE:CD1	6:W:417:PHE:O	1.95	1.19
4:D:389:PHE:HA	6:P:54:SER:CA	1.49	1.19
5:G:44:GLY:CA	6:I:400:ALA:CB	2.13	1.19
5:H:192:THR:C	6:J:364:PRO:HB2	1.67	1.19
6:I:41:LEU:CD2	6:J:242:PHE:CE2	2.24	1.19
6:I:640:GLN:NE2	6:J:545:VAL:HG12	1.56	1.19
6:O:298:PHE:CG	6:P:418:ASN:N	2.10	1.19
6:O:545:VAL:HG12	6:Q:640:GLN:CD	1.66	1.19
6:P:193:ILE:O	6:Q:562:TYR:CE1	1.89	1.19
5:T:5:MET:HE3	6:U:494:THR:CG2	1.73	1.19
6:U:44:THR:OG1	6:V:84:LYS:CE	1.80	1.19
6:V:193:ILE:HB	6:W:562:TYR:OH	1.43	1.19
1:A:152:THR:OG1	3:C:598:PRO:HG2	1.41	1.19
5:F:193:GLY:CA	6:K:364:PRO:CB	2.20	1.19
6:I:409:ILE:HD11	6:K:297:ALA:C	1.66	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:644:LEU:CA	6:J:548:LYS:HE3	1.71	1.19
6:J:298:PHE:CZ	6:K:416:ARG:O	1.82	1.19
6:J:457:PRO:C	6:K:412:ARG:HD2	1.67	1.19
6:O:409:ILE:HD11	6:Q:297:ALA:C	1.67	1.19
6:O:412:ARG:CA	6:Q:459:LEU:CD1	2.21	1.19
6:P:36:LEU:CB	6:Q:253:VAL:HG12	1.72	1.19
6:U:298:PHE:CD1	6:V:417:PHE:O	1.94	1.19
6:U:482:ASP:OD2	6:W:530:ARG:CZ	1.91	1.19
6:U:545:VAL:HG12	6:W:640:GLN:CD	1.66	1.19
6:U:562:TYR:HB3	6:W:195:PRO:CD	1.70	1.19
6:U:612:SER:OG	6:W:160:GLN:NE2	1.67	1.19
6:V:36:LEU:CB	6:W:253:VAL:HG12	1.72	1.19
6:V:456:ASN:ND2	6:W:412:ARG:CG	2.05	1.19
6:V:456:ASN:HD22	6:W:411:VAL:C	1.49	1.19
6:V:640:GLN:NE2	6:W:545:VAL:CG1	2.03	1.19
6:I:417:PHE:C	6:K:298:PHE:CZ	2.17	1.19
6:J:298:PHE:CD1	6:K:417:PHE:O	1.96	1.19
5:N:5:MET:HE3	6:O:494:THR:CG2	1.72	1.19
6:O:84:LYS:CD	6:Q:42:ASN:OD1	1.91	1.19
6:O:414:GLN:OE1	6:Q:459:LEU:CD2	1.70	1.19
6:O:528:ALA:HB3	6:P:283:SER:CB	1.71	1.19
6:O:609:ARG:CD	6:Q:29:THR:HB	1.72	1.19
5:R:194:LEU:HD22	6:W:447:SER:OG	1.40	1.19
5:T:194:LEU:CD2	6:V:447:SER:HB2	1.70	1.19
6:U:609:ARG:CG	6:W:29:THR:HB	1.73	1.19
4:D:14:TYR:OH	6:P:55:VAL:N	1.75	1.18
6:I:66:ASP:OD1	6:J:232:ALA:CB	1.81	1.18
6:I:298:PHE:CG	6:J:418:ASN:CA	2.23	1.18
6:J:625:ARG:NH2	6:K:278:THR:O	1.76	1.18
5:L:194:LEU:HD22	6:Q:447:SER:OG	1.39	1.18
5:M:2:PRO:HG2	6:Q:587:GLY:HA2	1.24	1.18
5:M:5:MET:HE2	6:Q:494:THR:OG1	1.38	1.18
6:O:161:LYS:CE	6:P:533:ASP:CB	2.21	1.18
6:P:298:PHE:CD2	6:Q:418:ASN:CA	2.27	1.18
6:U:84:LYS:NZ	6:W:44:THR:HB	1.38	1.18
6:V:528:ALA:HB3	6:W:283:SER:CB	1.71	1.18
2:B:408:SER:HB3	4:D:191:ARG:NH2	1.38	1.18
6:I:30:ALA:CB	6:J:610:THR:CG2	2.21	1.18
6:I:161:LYS:HE2	6:J:533:ASP:CA	1.72	1.18
6:I:169:MET:C	6:J:541:SER:OG	1.87	1.18
6:I:298:PHE:CD1	6:J:417:PHE:O	1.95	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:609:ARG:CD	6:K:29:THR:HB	1.72	1.18
6:I:612:SER:OG	6:K:160:GLN:CD	1.82	1.18
6:I:622:GLU:HG2	6:J:280:LEU:HA	1.22	1.18
6:I:641:ILE:HD11	6:J:545:VAL:HG21	1.21	1.18
6:J:160:GLN:HE21	6:K:612:SER:C	1.48	1.18
6:J:160:GLN:CD	6:K:612:SER:OG	1.81	1.18
5:L:193:GLY:CA	6:Q:364:PRO:HB2	1.72	1.18
6:O:640:GLN:HE22	6:P:545:VAL:CG1	1.56	1.18
6:P:456:ASN:ND2	6:Q:411:VAL:C	2.01	1.18
6:U:541:SER:OG	6:W:169:MET:C	1.86	1.18
6:V:169:MET:C	6:W:541:SER:OG	1.86	1.18
2:B:792:GLN:HG3	4:D:105:ALA:HB3	1.21	1.18
5:G:5:MET:HE2	6:K:494:THR:OG1	1.38	1.18
5:H:44:GLY:CA	6:J:400:ALA:C	2.09	1.18
6:I:160:GLN:NE2	6:J:612:SER:OG	1.68	1.18
6:I:609:ARG:CG	6:K:29:THR:HB	1.73	1.18
5:L:4:HIS:HE1	6:P:587:GLY:CA	1.57	1.18
6:P:459:LEU:CD2	6:Q:409:ILE:HG22	1.71	1.18
6:P:644:LEU:CG	6:Q:548:LYS:CE	2.03	1.18
6:V:154:ARG:HH11	6:W:247:SER:N	1.28	1.18
6:I:280:LEU:CD1	6:K:622:GLU:HB3	1.74	1.18
6:I:412:ARG:CG	6:K:456:ASN:ND2	2.02	1.18
6:I:459:LEU:CD1	6:J:412:ARG:CB	2.22	1.18
6:J:459:LEU:HD13	6:K:414:GLN:NE2	1.53	1.18
6:J:528:ALA:HB3	6:K:283:SER:CB	1.71	1.18
6:J:530:ARG:CZ	6:K:482:ASP:OD2	1.90	1.18
5:L:194:LEU:CD2	6:Q:447:SER:HB2	1.72	1.18
6:O:459:LEU:HD12	6:P:412:ARG:C	1.63	1.18
6:O:541:SER:OG	6:Q:169:MET:C	1.86	1.18
6:P:625:ARG:NH2	6:Q:278:THR:O	1.77	1.18
6:U:161:LYS:CE	6:V:533:ASP:CB	2.22	1.18
6:U:280:LEU:CD1	6:W:622:GLU:HB3	1.74	1.18
6:U:528:ALA:HB3	6:V:283:SER:CB	1.71	1.18
6:V:154:ARG:NE	6:W:248:GLU:N	1.92	1.18
1:A:377:ARG:NH1	6:I:57:THR:HG22	1.57	1.18
2:B:408:SER:OG	4:D:191:ARG:NH2	1.74	1.18
5:F:4:HIS:HE1	6:J:587:GLY:CA	1.56	1.18
6:I:168:THR:OG1	6:J:537:SER:CB	1.91	1.18
6:I:412:ARG:C	6:K:459:LEU:CD1	2.17	1.18
6:I:459:LEU:HD11	6:J:414:GLN:OE1	1.41	1.18
6:J:36:LEU:CB	6:K:253:VAL:HG12	1.73	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:530:ARG:NH2	6:K:482:ASP:OD2	1.75	1.18
5:N:194:LEU:CD2	6:P:447:SER:HB2	1.71	1.18
6:O:298:PHE:CE2	6:P:417:PHE:N	2.00	1.18
6:O:612:SER:OG	6:Q:160:GLN:CD	1.82	1.18
6:O:644:LEU:CA	6:P:548:LYS:HE3	1.71	1.18
6:U:82:PHE:CZ	6:V:242:PHE:CE1	2.32	1.18
6:U:168:THR:OG1	6:V:537:SER:CB	1.92	1.18
6:U:459:LEU:HD11	6:V:414:GLN:OE1	1.42	1.18
6:U:562:TYR:OH	6:W:193:ILE:CB	1.87	1.18
6:U:640:GLN:HE22	6:V:545:VAL:CG1	1.55	1.18
6:V:193:ILE:HB	6:W:562:TYR:CZ	1.75	1.18
6:V:622:GLU:HB3	6:W:280:LEU:CD1	1.72	1.18
6:V:641:ILE:CG1	6:W:545:VAL:CG1	2.00	1.18
6:I:630:LEU:CD1	6:J:275:GLU:HG2	1.73	1.17
6:J:299:ILE:CD1	6:K:419:MET:HE2	1.63	1.17
6:J:456:ASN:ND2	6:K:411:VAL:C	2.02	1.17
5:N:192:THR:C	6:P:364:PRO:HB2	1.66	1.17
6:O:66:ASP:OD1	6:P:232:ALA:CB	1.82	1.17
6:O:283:SER:CB	6:Q:528:ALA:HB3	1.74	1.17
6:P:622:GLU:HB3	6:Q:280:LEU:CD1	1.74	1.17
5:R:4:HIS:HE1	6:V:587:GLY:CA	1.57	1.17
6:U:298:PHE:CG	6:V:418:ASN:N	2.11	1.17
6:V:30:ALA:HB2	6:W:610:THR:CG2	1.73	1.17
6:V:530:ARG:CZ	6:W:482:ASP:OD2	1.90	1.17
6:X:303:ASP:OD1	5:Y:5:MET:SD	2.01	1.17
2:B:956:HIS:CD2	4:D:43:HIS:CE1	2.31	1.17
4:E:335:ALA:C	6:U:55:VAL:O	1.86	1.17
6:I:298:PHE:HZ	6:J:417:PHE:N	1.25	1.17
6:I:619:ASP:CB	6:J:284:VAL:HG11	1.74	1.17
6:J:193:ILE:CA	6:K:562:TYR:CE1	2.14	1.17
6:J:300:LYS:HZ3	6:K:418:ASN:ND2	1.31	1.17
6:O:169:MET:C	6:P:541:SER:OG	1.86	1.17
6:O:295:ARG:HH22	6:P:354:SER:CB	1.56	1.17
6:O:418:ASN:CA	6:Q:298:PHE:CG	2.27	1.17
6:O:482:ASP:OD2	6:Q:530:ARG:CZ	1.91	1.17
6:P:41:LEU:CD2	6:Q:242:PHE:HE2	1.58	1.17
6:P:169:MET:C	6:Q:541:SER:OG	1.86	1.17
6:U:283:SER:CA	6:W:528:ALA:CB	2.22	1.17
6:V:459:LEU:HD13	6:W:414:GLN:NE2	1.53	1.17
6:V:625:ARG:NH2	6:W:278:THR:O	1.76	1.17
1:A:152:THR:CB	3:C:598:PRO:HB2	1.73	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:954:PRO:HB2	4:D:43:HIS:CD2	1.79	1.17
2:B:1178:ARG:CD	4:D:241:LEU:HD21	1.54	1.17
6:I:82:PHE:CZ	6:J:242:PHE:CE1	2.33	1.17
6:I:195:PRO:HD3	6:J:562:TYR:CB	1.73	1.17
6:I:412:ARG:HG3	6:K:456:ASN:OD1	1.31	1.17
6:I:414:GLN:OE1	6:K:459:LEU:HD21	1.40	1.17
6:I:482:ASP:OD2	6:K:530:ARG:CZ	1.92	1.17
6:O:82:PHE:CZ	6:P:242:PHE:CE1	2.33	1.17
6:O:232:ALA:CB	6:Q:66:ASP:OD1	1.86	1.17
6:O:283:SER:CA	6:Q:528:ALA:CB	2.22	1.17
6:O:412:ARG:C	6:Q:459:LEU:CD1	2.18	1.17
6:O:640:GLN:NE2	6:P:545:VAL:HG12	1.56	1.17
5:T:192:THR:C	6:V:364:PRO:HB2	1.67	1.17
6:U:295:ARG:HH22	6:V:354:SER:CB	1.57	1.17
6:U:333:PRO:C	6:V:411:VAL:CG2	2.17	1.17
6:U:459:LEU:HG	6:V:412:ARG:NE	1.58	1.17
6:U:609:ARG:CD	6:W:29:THR:HB	1.74	1.17
6:V:32:PRO:O	6:W:613:LEU:HD21	1.31	1.17
5:H:5:MET:HE3	6:I:494:THR:CG2	1.73	1.17
6:I:161:LYS:CE	6:J:533:ASP:CB	2.22	1.17
6:I:298:PHE:CG	6:J:418:ASN:N	2.12	1.17
6:J:30:ALA:HB2	6:K:610:THR:CG2	1.73	1.17
6:J:44:THR:CG2	6:K:84:LYS:HZ2	1.58	1.17
5:N:5:MET:SD	6:O:303:ASP:OD1	2.03	1.17
6:O:30:ALA:CB	6:P:610:THR:CG2	2.20	1.17
6:O:160:GLN:NE2	6:P:612:SER:OG	1.68	1.17
6:O:160:GLN:CD	6:P:612:SER:OG	1.83	1.17
6:O:412:ARG:HB3	6:Q:456:ASN:OD1	1.41	1.17
6:P:147:ARG:NE	6:W:100:LYS:NZ	1.78	1.17
6:P:147:ARG:CB	6:W:100:LYS:NZ	2.07	1.17
6:P:459:LEU:HG	6:Q:412:ARG:CZ	1.72	1.17
5:T:4:HIS:HB3	6:U:586:VAL:HG21	1.20	1.17
6:U:283:SER:CB	6:W:528:ALA:HB3	1.75	1.17
6:U:419:MET:HB3	6:W:295:ARG:CZ	1.75	1.17
6:V:193:ILE:CA	6:W:562:TYR:CE1	2.14	1.17
6:V:298:PHE:CD2	6:W:418:ASN:CA	2.27	1.17
6:V:459:LEU:HG	6:W:412:ARG:CZ	1.71	1.17
6:I:147:ARG:CG	6:Q:100:LYS:CD	2.23	1.17
6:I:541:SER:OG	6:K:169:MET:C	1.85	1.17
6:I:609:ARG:HD2	6:K:29:THR:CB	1.75	1.17
6:I:612:SER:C	6:K:160:GLN:HE21	1.48	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:193:ILE:CB	6:K:562:TYR:OH	1.88	1.17
6:J:193:ILE:HB	6:K:562:TYR:OH	1.43	1.17
6:J:297:ALA:C	6:K:409:ILE:HD11	1.70	1.17
6:J:456:ASN:ND2	6:K:412:ARG:CB	1.97	1.17
6:J:622:GLU:HB3	6:K:280:LEU:CD1	1.72	1.17
5:N:4:HIS:CB	6:O:586:VAL:HG21	1.75	1.17
6:O:414:GLN:OE1	6:Q:459:LEU:CD1	1.68	1.17
6:P:298:PHE:HB3	6:Q:418:ASN:C	1.70	1.17
6:U:84:LYS:CD	6:W:42:ASN:OD1	1.91	1.17
6:U:619:ASP:CB	6:V:284:VAL:HG11	1.73	1.17
3:C:313:LYS:O	3:C:1196:ARG:HG3	1.44	1.16
6:I:283:SER:CA	6:K:528:ALA:CB	2.23	1.16
6:I:295:ARG:HH22	6:J:354:SER:CB	1.56	1.16
6:I:412:ARG:CA	6:K:459:LEU:HD12	1.75	1.16
6:I:412:ARG:NH1	6:K:459:LEU:CA	2.08	1.16
6:J:122:THR:CG2	6:K:90:ASN:HB3	1.73	1.16
6:J:459:LEU:CD1	6:K:412:ARG:CA	2.22	1.16
6:O:195:PRO:HD3	6:P:562:TYR:CB	1.73	1.16
6:O:619:ASP:CB	6:P:284:VAL:HG11	1.74	1.16
6:P:29:THR:HA	6:Q:609:ARG:CD	1.74	1.16
6:P:30:ALA:HB2	6:Q:610:THR:CG2	1.74	1.16
6:P:32:PRO:O	6:Q:613:LEU:HD21	1.29	1.16
6:P:193:ILE:CA	6:Q:562:TYR:CE1	2.14	1.16
6:P:300:LYS:HZ3	6:Q:418:ASN:CG	1.45	1.16
6:P:459:LEU:HD13	6:Q:414:GLN:NE2	1.54	1.16
6:U:195:PRO:HD3	6:V:562:TYR:CB	1.73	1.16
6:I:411:VAL:C	6:K:456:ASN:ND2	2.03	1.16
6:J:456:ASN:CB	6:K:412:ARG:HA	1.76	1.16
6:O:193:ILE:CB	6:P:562:TYR:OH	1.92	1.16
6:O:612:SER:OG	6:Q:160:GLN:NE2	1.67	1.16
6:P:44:THR:HB	6:Q:84:LYS:CE	1.60	1.16
6:P:160:GLN:HE21	6:Q:612:SER:C	1.48	1.16
6:P:456:ASN:OD1	6:Q:412:ARG:HG3	1.29	1.16
5:T:4:HIS:CB	6:U:586:VAL:HG21	1.75	1.16
6:U:66:ASP:OD1	6:V:232:ALA:CB	1.82	1.16
6:U:417:PHE:C	6:W:298:PHE:CZ	2.18	1.16
6:U:418:ASN:CA	6:W:298:PHE:CG	2.27	1.16
6:U:459:LEU:CG	6:V:412:ARG:CZ	2.24	1.16
6:U:459:LEU:HD22	6:V:414:GLN:CD	1.67	1.16
6:V:66:ASP:CB	6:W:232:ALA:HB1	1.62	1.16
6:V:456:ASN:ND2	6:W:411:VAL:C	2.02	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:379:GLY:N	3:C:798:VAL:HG12	1.05	1.16
6:I:232:ALA:CB	6:K:66:ASP:OD1	1.88	1.16
6:I:414:GLN:CD	6:K:459:LEU:CG	2.04	1.16
6:I:418:ASN:CA	6:K:298:PHE:CG	2.27	1.16
6:I:612:SER:O	6:K:160:GLN:NE2	1.76	1.16
6:J:29:THR:HA	6:K:609:ARG:CD	1.76	1.16
6:J:333:PRO:C	6:K:411:VAL:CG2	2.12	1.16
6:P:456:ASN:ND2	6:Q:412:ARG:CB	1.97	1.16
6:P:459:LEU:CD1	6:Q:412:ARG:CA	2.22	1.16
6:V:29:THR:HA	6:W:609:ARG:CD	1.75	1.16
6:V:297:ALA:C	6:W:409:ILE:HD11	1.70	1.16
2:B:792:GLN:CG	4:D:105:ALA:HB3	1.75	1.16
4:D:390:ASN:CB	6:P:50:PRO:CG	2.22	1.16
5:F:194:LEU:CD2	6:K:447:SER:HB2	1.73	1.16
6:I:283:SER:CB	6:K:528:ALA:HB3	1.76	1.16
6:I:411:VAL:CG1	6:K:457:PRO:CD	2.08	1.16
6:I:411:VAL:HG12	6:K:457:PRO:CG	1.54	1.16
6:I:459:LEU:CG	6:J:412:ARG:CZ	2.23	1.16
6:J:44:THR:CG2	6:K:84:LYS:NZ	2.07	1.16
5:L:194:LEU:CD2	6:Q:447:SER:CB	2.23	1.16
6:O:280:LEU:CD1	6:Q:622:GLU:HB3	1.75	1.16
6:O:333:PRO:C	6:P:411:VAL:CG2	2.16	1.16
6:O:622:GLU:HB3	6:P:280:LEU:CD1	1.76	1.16
6:P:154:ARG:NE	6:Q:248:GLU:N	1.93	1.16
6:P:195:PRO:CG	6:Q:562:TYR:HB3	1.76	1.16
6:U:44:THR:CG2	6:V:84:LYS:HZ2	1.54	1.16
6:U:298:PHE:HB3	6:V:418:ASN:C	1.71	1.16
6:V:528:ALA:HB1	6:W:283:SER:C	1.71	1.16
6:I:44:THR:HG21	6:J:84:LYS:HZ2	1.03	1.16
6:I:297:ALA:O	6:J:409:ILE:HD11	1.46	1.16
6:J:298:PHE:HB3	6:K:418:ASN:C	1.70	1.16
6:O:609:ARG:CG	6:Q:29:THR:HB	1.74	1.16
6:O:609:ARG:HD2	6:Q:29:THR:CB	1.75	1.16
6:O:622:GLU:HG2	6:P:280:LEU:HA	1.20	1.16
6:P:42:ASN:HD22	6:Q:235:LEU:CD2	1.50	1.16
6:U:160:GLN:NE2	6:V:612:SER:O	1.72	1.16
5:H:5:MET:SD	6:I:303:ASP:OD1	2.03	1.15
5:H:193:GLY:HA3	6:J:364:PRO:CG	1.74	1.15
6:I:541:SER:OG	6:K:169:MET:HA	1.27	1.15
6:I:610:THR:CG2	6:K:30:ALA:CB	2.24	1.15
6:J:169:MET:C	6:K:541:SER:OG	1.86	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:578:SER:CB	6:K:471:LEU:HD11	1.75	1.15
6:O:280:LEU:HA	6:Q:622:GLU:HG2	1.21	1.15
6:O:411:VAL:C	6:Q:456:ASN:ND2	2.02	1.15
6:O:630:LEU:CD1	6:P:275:GLU:HG2	1.73	1.15
6:U:169:MET:C	6:V:541:SER:OG	1.87	1.15
6:U:412:ARG:C	6:W:459:LEU:CD1	2.18	1.15
6:U:414:GLN:OE1	6:W:459:LEU:HD21	1.38	1.15
3:C:316:THR:N	3:C:1196:ARG:NH1	1.75	1.15
4:D:389:PHE:HB3	6:P:54:SER:HB3	1.17	1.15
5:H:4:HIS:CB	6:I:586:VAL:HG21	1.74	1.15
6:I:333:PRO:C	6:J:411:VAL:CG2	2.17	1.15
6:J:44:THR:HB	6:K:84:LYS:CE	1.59	1.15
6:J:298:PHE:CD2	6:K:418:ASN:CA	2.26	1.15
6:J:459:LEU:HD21	6:K:414:GLN:OE1	1.41	1.15
6:J:528:ALA:HB1	6:K:283:SER:C	1.70	1.15
6:J:644:LEU:HB3	6:K:548:LYS:CE	1.76	1.15
6:O:298:PHE:CD1	6:P:417:PHE:O	1.96	1.15
6:O:541:SER:CA	6:Q:169:MET:O	1.94	1.15
5:R:193:GLY:CA	6:W:364:PRO:CB	2.20	1.15
6:U:193:ILE:CB	6:V:562:TYR:OH	1.92	1.15
6:U:232:ALA:CB	6:W:66:ASP:OD1	1.87	1.15
6:U:630:LEU:HD13	6:V:275:GLU:HG3	1.23	1.15
6:V:298:PHE:HB3	6:W:418:ASN:C	1.70	1.15
6:V:459:LEU:CD1	6:W:412:ARG:CA	2.23	1.15
2:B:376:LEU:CB	4:D:249:LYS:HE3	1.77	1.15
4:D:389:PHE:C	6:P:54:SER:C	2.13	1.15
5:F:194:LEU:CD2	6:K:447:SER:CB	2.24	1.15
6:I:195:PRO:HD3	6:J:562:TYR:HB3	1.17	1.15
6:I:459:LEU:HD21	6:J:414:GLN:OE1	1.40	1.15
6:J:193:ILE:O	6:K:562:TYR:CE1	1.88	1.15
6:J:456:ASN:OD1	6:K:412:ARG:HG3	1.28	1.15
6:J:459:LEU:HB3	6:K:414:GLN:NE2	1.34	1.15
6:O:36:LEU:HD23	6:P:253:VAL:HG13	1.15	1.15
6:O:41:LEU:HD21	6:P:242:PHE:CE2	1.82	1.15
6:O:232:ALA:HB1	6:Q:66:ASP:CB	1.57	1.15
6:O:412:ARG:CA	6:Q:459:LEU:HD12	1.77	1.15
6:O:640:GLN:CD	6:P:545:VAL:HG12	1.71	1.15
6:P:459:LEU:HD11	6:Q:414:GLN:OE1	1.44	1.15
5:T:5:MET:CE	6:U:494:THR:CG2	2.24	1.15
6:U:193:ILE:CA	6:V:562:TYR:CE1	2.16	1.15
6:U:195:PRO:HD3	6:V:562:TYR:HB3	1.17	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:283:SER:HB2	6:W:528:ALA:CB	1.77	1.15
6:U:412:ARG:CA	6:W:459:LEU:HD12	1.75	1.15
6:U:412:ARG:NH1	6:W:459:LEU:CA	2.10	1.15
6:V:195:PRO:CG	6:W:562:TYR:HB3	1.77	1.15
6:V:530:ARG:HA	6:W:472:ARG:HD2	1.24	1.15
6:V:578:SER:CB	6:W:471:LEU:HD11	1.76	1.15
6:I:298:PHE:CB	6:J:418:ASN:CA	2.10	1.15
6:I:298:PHE:HB3	6:J:418:ASN:C	1.70	1.15
6:I:419:MET:HB3	6:K:295:ARG:CZ	1.76	1.15
6:I:640:GLN:HE22	6:J:545:VAL:CG1	1.57	1.15
6:J:154:ARG:NE	6:K:248:GLU:N	1.93	1.15
6:J:299:ILE:CD1	6:K:419:MET:HE1	1.70	1.15
6:O:528:ALA:CB	6:P:283:SER:CB	2.25	1.15
5:T:44:GLY:CA	6:V:400:ALA:C	2.09	1.15
6:U:41:LEU:HD21	6:V:242:PHE:CE2	1.81	1.15
6:U:165:THR:CG2	6:V:534:SER:CA	2.05	1.15
6:U:283:SER:CB	6:W:528:ALA:CB	2.24	1.15
2:B:404:MET:CG	4:D:46:ILE:CD1	2.08	1.15
3:C:712:VAL:C	3:C:726:ARG:HH12	1.53	1.15
6:I:160:GLN:HB3	6:J:612:SER:OG	1.39	1.15
5:N:5:MET:CE	6:O:494:THR:CG2	2.25	1.15
6:O:168:THR:OG1	6:P:537:SER:CB	1.94	1.15
6:O:459:LEU:CG	6:P:412:ARG:CZ	2.23	1.15
6:P:44:THR:CG2	6:Q:84:LYS:NZ	2.09	1.15
6:P:122:THR:HG21	6:Q:90:ASN:CB	1.77	1.15
6:P:297:ALA:C	6:Q:409:ILE:HD11	1.71	1.15
6:P:530:ARG:HA	6:Q:472:ARG:HD2	1.25	1.15
6:P:640:GLN:NE2	6:Q:545:VAL:CG1	2.04	1.15
5:T:191:LYS:O	6:V:364:PRO:HB3	1.47	1.15
6:U:641:ILE:HD11	6:V:545:VAL:HG21	1.22	1.15
6:V:122:THR:HG21	6:W:90:ASN:CB	1.75	1.15
6:X:497:GLU:OE1	5:Y:5:MET:SD	2.02	1.15
2:B:1182:ASN:HB2	4:D:52:PRO:CB	1.68	1.14
6:I:612:SER:OG	6:K:160:GLN:HB3	1.38	1.14
6:J:193:ILE:HB	6:K:562:TYR:CZ	1.77	1.14
6:J:459:LEU:HD11	6:K:414:GLN:OE1	1.46	1.14
6:O:160:GLN:NE2	6:P:612:SER:O	1.71	1.14
6:O:297:ALA:O	6:P:409:ILE:HD11	1.46	1.14
6:O:412:ARG:NH1	6:Q:459:LEU:CA	2.09	1.14
6:O:459:LEU:HD22	6:P:414:GLN:CD	1.68	1.14
6:P:459:LEU:HD22	6:Q:414:GLN:CD	1.56	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:193:GLY:HA3	6:W:364:PRO:HG2	1.19	1.14
5:R:194:LEU:CD2	6:W:447:SER:CB	2.23	1.14
5:T:5:MET:SD	6:U:303:ASP:OD1	2.04	1.14
6:U:528:ALA:CB	6:V:283:SER:CB	2.26	1.14
6:U:612:SER:OG	6:W:160:GLN:CD	1.82	1.14
6:V:44:THR:CG2	6:W:84:LYS:NZ	2.09	1.14
6:V:160:GLN:HB3	6:W:612:SER:OG	1.39	1.14
2:B:954:PRO:HA	4:D:35:ARG:NH1	1.59	1.14
5:H:44:GLY:CA	6:J:400:ALA:CB	2.16	1.14
6:I:41:LEU:HD21	6:J:242:PHE:CE2	1.81	1.14
6:I:160:GLN:CD	6:J:612:SER:OG	1.84	1.14
6:J:41:LEU:CD2	6:K:242:PHE:HE2	1.57	1.14
6:J:42:ASN:HD22	6:K:235:LEU:CD2	1.51	1.14
6:J:195:PRO:CG	6:K:562:TYR:HB3	1.76	1.14
6:O:28:SER:HB2	6:P:606:THR:HG22	1.17	1.14
6:O:283:SER:CB	6:Q:528:ALA:CB	2.24	1.14
6:O:612:SER:OG	6:Q:160:GLN:HB3	1.38	1.14
6:P:161:LYS:HE2	6:Q:533:ASP:CB	1.77	1.14
6:P:578:SER:CB	6:Q:471:LEU:HD11	1.77	1.14
5:R:44:GLY:HA3	6:W:400:ALA:HB1	1.17	1.14
6:U:32:PRO:O	6:V:613:LEU:HD21	1.44	1.14
6:U:411:VAL:C	6:W:456:ASN:ND2	2.03	1.14
6:U:606:THR:HG22	6:W:28:SER:HB2	1.25	1.14
2:B:1213:ALA:O	3:C:552:ASP:OD2	1.63	1.14
3:C:884:PRO:HG2	3:C:965:GLU:OE2	1.44	1.14
5:H:191:LYS:O	6:J:364:PRO:HB3	1.47	1.14
6:O:169:MET:C	6:P:541:SER:CB	2.21	1.14
6:O:419:MET:HB3	6:Q:295:ARG:CZ	1.77	1.14
6:U:530:ARG:NH1	6:V:482:ASP:OD2	1.80	1.14
3:C:377:ILE:HG21	3:C:380:GLU:C	1.71	1.14
4:E:335:ALA:HB1	6:U:55:VAL:O	1.47	1.14
6:I:42:ASN:OD1	6:J:84:LYS:CD	1.95	1.14
6:J:641:ILE:HD11	6:K:545:VAL:HG21	1.30	1.14
5:N:44:GLY:CA	6:P:400:ALA:CB	2.17	1.14
5:N:193:GLY:HA3	6:P:364:PRO:HG2	1.26	1.14
6:O:530:ARG:CA	6:P:472:ARG:CD	1.95	1.14
6:P:36:LEU:HD23	6:Q:253:VAL:HG13	1.21	1.14
6:P:160:GLN:CD	6:Q:612:SER:OG	1.81	1.14
6:P:528:ALA:HB1	6:Q:283:SER:C	1.71	1.14
6:U:28:SER:HB2	6:V:606:THR:HG22	1.18	1.14
6:U:42:ASN:OD1	6:V:84:LYS:CD	1.95	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:609:ARG:HD2	6:W:29:THR:CB	1.75	1.14
6:U:612:SER:OG	6:W:160:GLN:HB3	1.38	1.14
6:U:612:SER:O	6:W:160:GLN:NE2	1.75	1.14
6:X:587:GLY:C	5:Y:2:PRO:CG	2.20	1.14
2:B:376:LEU:HD21	3:C:795:ASP:C	1.73	1.14
2:B:407:ARG:CD	4:D:184:HIS:CE1	2.29	1.14
4:D:389:PHE:O	6:P:55:VAL:HB	1.32	1.14
5:H:4:HIS:CE1	6:I:587:GLY:CA	2.27	1.14
6:I:253:VAL:HG13	6:K:36:LEU:HD23	1.19	1.14
6:I:528:ALA:CB	6:J:283:SER:CB	2.25	1.14
6:I:541:SER:CA	6:K:169:MET:O	1.94	1.14
6:I:622:GLU:CG	6:J:279:PRO:O	1.96	1.14
6:O:530:ARG:NH1	6:P:482:ASP:OD2	1.80	1.14
6:P:456:ASN:CB	6:Q:412:ARG:HA	1.76	1.14
6:U:609:ARG:HD2	6:W:29:THR:CA	1.68	1.14
6:U:622:GLU:HB3	6:V:280:LEU:CD1	1.76	1.14
6:V:160:GLN:NE2	6:W:612:SER:OG	1.67	1.14
6:V:161:LYS:HE2	6:W:533:ASP:CB	1.77	1.14
6:V:456:ASN:CB	6:W:412:ARG:HA	1.76	1.14
6:V:619:ASP:CB	6:W:284:VAL:HG21	1.78	1.14
2:B:953:GLY:CA	4:D:35:ARG:CD	2.19	1.13
3:C:792:GLN:NE2	4:D:225:ARG:NH1	1.96	1.13
5:H:5:MET:CE	6:I:494:THR:CG2	2.26	1.13
6:I:622:GLU:HB3	6:J:280:LEU:CD1	1.77	1.13
6:O:409:ILE:HD11	6:Q:297:ALA:O	1.48	1.13
6:P:459:LEU:CD1	6:Q:412:ARG:CB	2.24	1.13
6:P:459:LEU:HD12	6:Q:412:ARG:CA	1.78	1.13
6:U:412:ARG:CB	6:W:459:LEU:CD1	2.22	1.13
6:V:44:THR:HA	6:W:84:LYS:HE3	1.25	1.13
4:E:336:ALA:N	6:U:55:VAL:H	1.46	1.13
6:I:193:ILE:O	6:J:562:TYR:CE1	1.95	1.13
6:I:283:SER:CB	6:K:528:ALA:CB	2.25	1.13
6:I:548:LYS:CE	6:K:644:LEU:HB3	1.78	1.13
6:O:298:PHE:HB3	6:P:418:ASN:C	1.71	1.13
6:O:613:LEU:HD21	6:Q:32:PRO:O	1.37	1.13
6:O:641:ILE:CD1	6:P:545:VAL:HG21	1.79	1.13
5:T:4:HIS:CE1	6:U:587:GLY:CA	2.28	1.13
6:U:30:ALA:CB	6:V:610:THR:CG2	2.21	1.13
6:U:459:LEU:CG	6:V:414:GLN:OE1	1.93	1.13
6:U:630:LEU:CD1	6:V:275:GLU:HG3	1.74	1.13
4:E:404:VAL:CG1	6:U:49:ARG:NH2	2.04	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:44:THR:HA	6:J:84:LYS:HE3	1.30	1.13
6:I:640:GLN:CD	6:J:545:VAL:HG12	1.71	1.13
6:J:122:THR:HG21	6:K:90:ASN:CB	1.76	1.13
5:M:44:GLY:C	6:O:400:ALA:HA	1.73	1.13
5:N:193:GLY:CA	6:P:364:PRO:HG2	1.78	1.13
6:O:42:ASN:OD1	6:P:84:LYS:CD	1.94	1.13
6:U:29:THR:CA	6:V:609:ARG:HD2	1.64	1.13
6:U:472:ARG:HD2	6:W:530:ARG:HA	1.22	1.13
6:U:541:SER:CA	6:W:169:MET:O	1.94	1.13
4:D:152:ASP:CG	6:P:53:THR:HG21	1.73	1.13
5:F:193:GLY:HA3	6:K:364:PRO:HG2	1.18	1.13
6:I:32:PRO:O	6:J:613:LEU:HD21	1.43	1.13
6:I:44:THR:HB	6:J:84:LYS:NZ	1.51	1.13
6:I:530:ARG:HA	6:J:472:ARG:HD2	1.31	1.13
6:J:161:LYS:HE2	6:K:533:ASP:CB	1.78	1.13
5:L:193:GLY:HA3	6:Q:364:PRO:HG2	1.17	1.13
5:N:193:GLY:HA3	6:P:364:PRO:CG	1.74	1.13
6:O:32:PRO:O	6:P:613:LEU:HD21	1.43	1.13
6:O:253:VAL:HG13	6:Q:36:LEU:HD23	1.17	1.13
6:O:609:ARG:CG	6:Q:29:THR:CB	2.27	1.13
6:P:299:ILE:CD1	6:Q:419:MET:HE1	1.71	1.13
6:U:160:GLN:HB3	6:V:612:SER:OG	1.40	1.13
6:U:545:VAL:HG21	6:W:641:ILE:HD11	1.30	1.13
6:U:578:SER:HB3	6:V:471:LEU:HD11	1.16	1.13
6:V:66:ASP:OD1	6:W:232:ALA:CB	1.94	1.13
1:A:152:THR:HB	3:C:598:PRO:CB	1.80	1.12
2:B:661:THR:O	4:D:196:LEU:HD13	1.49	1.12
5:H:193:GLY:HA3	6:J:364:PRO:HG2	1.26	1.12
6:I:168:THR:C	6:J:541:SER:HG	1.57	1.12
6:I:298:PHE:CG	6:J:417:PHE:C	2.26	1.12
6:I:534:SER:HA	6:K:165:THR:HG22	1.28	1.12
6:J:160:GLN:NE2	6:K:612:SER:O	1.81	1.13
6:J:622:GLU:HG2	6:K:280:LEU:HA	1.30	1.13
5:N:191:LYS:O	6:P:364:PRO:HB3	1.45	1.12
6:O:169:MET:HA	6:P:541:SER:OG	1.32	1.12
6:O:242:PHE:HE2	6:Q:41:LEU:CD2	1.61	1.12
6:O:284:VAL:HG11	6:Q:619:ASP:CB	1.79	1.12
6:O:298:PHE:CG	6:P:417:PHE:C	2.26	1.13
6:O:534:SER:HA	6:Q:165:THR:HG22	1.29	1.13
6:O:612:SER:O	6:Q:160:GLN:NE2	1.76	1.12
6:P:298:PHE:CE2	6:Q:418:ASN:N	2.13	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:193:GLY:CA	6:V:364:PRO:HG2	1.79	1.13
6:U:36:LEU:HD23	6:V:253:VAL:HG13	1.14	1.13
6:U:412:ARG:HB3	6:W:456:ASN:OD1	1.43	1.13
6:U:613:LEU:HD21	6:W:32:PRO:O	1.37	1.13
6:V:36:LEU:HD23	6:W:253:VAL:HG13	1.21	1.13
5:S:4:HIS:CE1	6:W:586:VAL:HG22	1.84	1.12
6:U:165:THR:HG23	6:V:534:SER:HB3	1.20	1.12
6:U:284:VAL:HG11	6:W:619:ASP:CB	1.80	1.12
6:U:622:GLU:CG	6:V:279:PRO:O	1.97	1.12
6:U:630:LEU:CD1	6:V:275:GLU:HG2	1.73	1.12
6:U:640:GLN:CD	6:V:545:VAL:HG12	1.71	1.12
2:B:1213:ALA:C	3:C:552:ASP:CG	2.14	1.12
5:G:4:HIS:CE1	6:K:587:GLY:CA	2.28	1.12
5:G:4:HIS:CE1	6:K:586:VAL:C	2.27	1.12
5:G:44:GLY:C	6:I:400:ALA:HA	1.74	1.12
6:I:283:SER:HB2	6:K:528:ALA:CB	1.78	1.12
6:I:562:TYR:CG	6:K:193:ILE:O	2.01	1.12
6:I:606:THR:HG22	6:K:28:SER:HB2	1.26	1.12
6:I:609:ARG:CG	6:K:29:THR:CB	2.27	1.12
6:J:165:THR:CG2	6:K:534:SER:HB3	1.74	1.12
6:J:193:ILE:O	6:K:562:TYR:CG	2.02	1.12
6:J:456:ASN:ND2	6:K:412:ARG:CG	2.06	1.12
6:O:29:THR:CA	6:P:609:ARG:HD2	1.61	1.12
6:O:562:TYR:CG	6:Q:193:ILE:O	2.02	1.12
6:O:610:THR:CG2	6:Q:30:ALA:CB	2.23	1.12
6:O:641:ILE:HD11	6:P:545:VAL:HG21	1.21	1.12
6:V:333:PRO:HG2	6:W:411:VAL:HG13	1.28	1.12
3:C:377:ILE:HG23	3:C:381:VAL:O	1.50	1.12
5:G:193:GLY:CA	6:I:364:PRO:CG	2.28	1.12
6:I:459:LEU:CG	6:J:414:GLN:OE1	1.94	1.12
6:I:562:TYR:HB3	6:K:195:PRO:HD3	1.29	1.12
6:I:619:ASP:HB2	6:J:284:VAL:HG21	1.12	1.12
5:N:5:MET:CE	6:O:494:THR:CB	2.28	1.12
6:P:459:LEU:HD21	6:Q:414:GLN:OE1	1.40	1.12
6:P:641:ILE:HD11	6:Q:545:VAL:HG21	1.29	1.12
6:U:298:PHE:CG	6:V:417:PHE:C	2.27	1.12
2:B:380:GLU:N	3:C:798:VAL:HG11	1.39	1.12
3:C:1195:TYR:HB3	3:C:1197:TYR:HE1	1.03	1.12
4:E:339:LEU:HD22	6:U:55:VAL:CG1	1.79	1.12
4:E:401:ALA:CB	6:U:52:GLY:CA	2.20	1.12
5:G:2:PRO:HG2	6:K:587:GLY:HA2	1.23	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:4:HIS:CE1	6:K:586:VAL:HG22	1.84	1.12
6:I:28:SER:HB2	6:J:606:THR:HG22	1.18	1.12
6:I:147:ARG:HD2	6:Q:100:LYS:NZ	0.84	1.12
6:I:169:MET:C	6:J:541:SER:CB	2.22	1.12
6:I:530:ARG:NH2	6:J:482:ASP:OD2	1.83	1.12
6:J:459:LEU:HG	6:K:412:ARG:CZ	1.73	1.12
5:L:5:MET:HE3	6:P:494:THR:HG21	1.13	1.12
5:M:4:HIS:CE1	6:Q:586:VAL:C	2.26	1.12
5:M:5:MET:CE	6:Q:494:THR:CB	2.27	1.12
6:O:44:THR:HG21	6:P:84:LYS:HZ2	1.03	1.12
6:O:545:VAL:CG1	6:Q:640:GLN:NE2	2.08	1.12
6:P:66:ASP:CB	6:Q:232:ALA:HB1	1.63	1.12
6:P:144:ASN:HA	6:W:100:LYS:NZ	1.64	1.12
6:P:644:LEU:HB3	6:Q:548:LYS:CE	1.78	1.12
6:U:459:LEU:HG	6:V:412:ARG:CB	1.79	1.12
6:U:482:ASP:OD2	6:W:530:ARG:NH2	1.83	1.12
6:U:562:TYR:CE1	6:W:193:ILE:O	1.89	1.12
6:U:609:ARG:CG	6:W:29:THR:CB	2.27	1.12
6:U:644:LEU:HB3	6:V:548:LYS:CE	1.76	1.12
6:V:42:ASN:OD1	6:W:84:LYS:HD2	1.45	1.12
6:V:160:GLN:CD	6:W:612:SER:OG	1.80	1.12
6:V:193:ILE:O	6:W:562:TYR:CG	2.02	1.12
6:V:528:ALA:HB1	6:W:283:SER:HA	1.12	1.12
2:B:1211:ARG:NH2	3:C:611:PRO:HB3	1.47	1.12
3:C:885:LEU:HG	3:C:965:GLU:OE2	1.49	1.12
6:I:411:VAL:CG1	6:K:457:PRO:HG3	1.63	1.12
6:I:613:LEU:HD21	6:K:32:PRO:O	1.37	1.12
6:J:42:ASN:HD22	6:K:235:LEU:HD23	1.14	1.12
6:O:160:GLN:HB3	6:P:612:SER:OG	1.39	1.12
6:O:242:PHE:CE1	6:Q:82:PHE:CZ	2.38	1.12
6:O:482:ASP:OD2	6:Q:530:ARG:NH1	1.81	1.12
6:P:456:ASN:ND2	6:Q:412:ARG:CG	2.06	1.12
6:P:619:ASP:CB	6:Q:284:VAL:HG21	1.79	1.12
5:S:4:HIS:CE1	6:W:586:VAL:C	2.27	1.12
6:U:169:MET:C	6:V:541:SER:CB	2.22	1.12
6:U:280:LEU:HA	6:W:622:GLU:HG2	1.24	1.12
2:B:404:MET:CE	4:D:46:ILE:HD13	1.78	1.11
2:B:1213:ALA:HA	3:C:552:ASP:CG	1.70	1.11
3:C:715:VAL:HG22	3:C:726:ARG:CZ	1.76	1.11
5:F:44:GLY:HA3	6:K:400:ALA:HB1	1.16	1.11
6:I:280:LEU:HA	6:K:622:GLU:HG2	1.24	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:417:PHE:O	6:K:298:PHE:CD1	2.03	1.11
6:I:545:VAL:CG1	6:K:640:GLN:NE2	2.09	1.11
6:J:459:LEU:HD12	6:K:412:ARG:CA	1.80	1.11
5:M:4:HIS:CE1	6:Q:586:VAL:HG22	1.85	1.11
6:O:44:THR:HB	6:P:84:LYS:NZ	1.53	1.11
6:O:414:GLN:OE1	6:Q:459:LEU:HD11	1.36	1.11
6:O:622:GLU:CG	6:P:279:PRO:O	1.97	1.11
6:P:44:THR:CG2	6:Q:84:LYS:HZ2	1.62	1.11
6:P:333:PRO:HG2	6:Q:411:VAL:HG13	1.27	1.11
6:U:161:LYS:CE	6:V:533:ASP:CA	2.27	1.11
6:U:297:ALA:O	6:V:409:ILE:HD11	1.47	1.11
6:U:411:VAL:CG1	6:W:333:PRO:O	1.98	1.11
2:B:404:MET:CE	4:D:46:ILE:CD1	2.27	1.11
3:C:713:ASN:HA	3:C:726:ARG:NH1	1.36	1.11
6:I:84:LYS:HE3	6:K:44:THR:HA	1.27	1.11
6:I:284:VAL:HG11	6:K:619:ASP:CB	1.79	1.11
6:I:482:ASP:OD2	6:K:530:ARG:NH2	1.83	1.11
6:J:36:LEU:HD23	6:K:253:VAL:HG13	1.22	1.11
6:O:283:SER:HB2	6:Q:528:ALA:CB	1.78	1.11
6:O:412:ARG:CB	6:Q:459:LEU:CD1	2.23	1.11
6:O:533:ASP:CA	6:Q:161:LYS:HE2	1.81	1.11
6:P:44:THR:HA	6:Q:84:LYS:HE3	1.29	1.11
6:P:193:ILE:HB	6:Q:562:TYR:CZ	1.76	1.11
5:S:5:MET:CE	6:W:494:THR:CB	2.28	1.11
5:T:193:GLY:HA3	6:V:364:PRO:CG	1.75	1.11
6:U:530:ARG:NH2	6:V:482:ASP:OD2	1.82	1.11
6:U:610:THR:CG2	6:W:30:ALA:CB	2.25	1.11
6:U:622:GLU:HG2	6:V:280:LEU:HA	1.22	1.11
1:A:377:ARG:HD2	6:I:51:VAL:HG11	1.29	1.11
4:E:336:ALA:HA	6:U:55:VAL:CB	1.80	1.11
5:H:5:MET:CE	6:I:494:THR:CB	2.28	1.11
6:I:411:VAL:CG1	6:K:333:PRO:O	1.98	1.11
6:I:459:LEU:HD22	6:J:414:GLN:CD	1.67	1.11
6:I:530:ARG:NH1	6:J:482:ASP:OD2	1.80	1.11
5:N:4:HIS:ND1	6:O:586:VAL:HG13	1.65	1.11
6:P:193:ILE:O	6:Q:562:TYR:CG	2.02	1.11
6:U:44:THR:HG21	6:V:84:LYS:HZ2	1.10	1.11
6:U:242:PHE:CE1	6:W:82:PHE:CZ	2.37	1.11
6:U:409:ILE:HD11	6:W:297:ALA:O	1.47	1.11
2:B:1211:ARG:NH2	3:C:611:PRO:HG3	1.60	1.11
3:C:314:SER:C	3:C:1196:ARG:NE	2.00	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:335:ALA:HB2	6:U:56:ALA:HB2	1.13	1.11
4:E:401:ALA:H	6:U:52:GLY:HA3	0.98	1.11
6:I:84:LYS:HD2	6:K:42:ASN:OD1	1.49	1.11
6:I:242:PHE:HE2	6:K:41:LEU:CD2	1.60	1.11
6:I:641:ILE:CD1	6:J:545:VAL:HG21	1.79	1.11
6:J:298:PHE:CG	6:K:417:PHE:C	2.29	1.11
6:J:619:ASP:CB	6:K:284:VAL:HG21	1.79	1.11
5:M:193:GLY:CA	6:O:364:PRO:CG	2.28	1.11
6:O:84:LYS:HZ2	6:Q:44:THR:HG21	1.12	1.11
6:O:169:MET:O	6:P:541:SER:HA	1.47	1.11
6:O:411:VAL:CG1	6:Q:457:PRO:HG3	1.63	1.11
6:O:609:ARG:HD2	6:Q:29:THR:CA	1.69	1.11
6:P:298:PHE:CB	6:Q:418:ASN:CA	2.14	1.11
6:U:482:ASP:OD2	6:W:530:ARG:NH1	1.82	1.11
6:U:548:LYS:CE	6:W:644:LEU:HB3	1.79	1.11
6:V:168:THR:OG1	6:W:537:SER:OG	1.69	1.11
6:V:456:ASN:OD1	6:W:412:ARG:HG3	1.28	1.11
6:V:459:LEU:HD21	6:W:414:GLN:OE1	1.41	1.11
2:B:376:LEU:HD12	4:D:249:LYS:HE2	1.12	1.11
4:E:339:LEU:CD2	6:U:55:VAL:CG1	2.29	1.11
5:G:193:GLY:HA3	6:I:364:PRO:CB	1.81	1.11
5:H:2:PRO:HG2	6:I:587:GLY:HA2	1.13	1.11
6:J:333:PRO:O	6:K:411:VAL:HG21	1.46	1.11
6:O:82:PHE:HZ	6:P:242:PHE:CE1	1.68	1.11
5:S:44:GLY:C	6:U:400:ALA:HA	1.73	1.11
5:T:5:MET:CE	6:U:494:THR:CB	2.28	1.11
6:U:418:ASN:N	6:W:298:PHE:CE2	2.16	1.11
6:V:41:LEU:CD2	6:W:242:PHE:HE2	1.58	1.11
6:V:299:ILE:CD1	6:W:419:MET:HE1	1.71	1.11
6:V:622:GLU:HG2	6:W:280:LEU:HA	1.31	1.11
6:V:623:LYS:HE2	6:W:270:ASP:OD2	1.50	1.11
4:E:335:ALA:CB	6:U:55:VAL:O	1.97	1.10
6:I:82:PHE:HZ	6:J:242:PHE:CE1	1.69	1.10
6:I:247:SER:N	6:K:154:ARG:HH11	1.40	1.10
6:I:409:ILE:HD11	6:K:297:ALA:O	1.48	1.10
6:I:411:VAL:HG21	6:K:333:PRO:O	1.47	1.10
6:I:456:ASN:ND2	6:J:412:ARG:CB	2.11	1.10
6:O:284:VAL:HG21	6:Q:619:ASP:CB	1.81	1.10
6:O:414:GLN:OE1	6:Q:459:LEU:HD21	1.39	1.10
6:O:417:PHE:O	6:Q:298:PHE:CD1	2.03	1.10
6:O:418:ASN:ND2	6:Q:300:LYS:HZ3	1.36	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:2:PRO:HG2	6:W:587:GLY:HA2	1.23	1.10
5:S:193:GLY:CA	6:U:364:PRO:CG	2.29	1.10
6:U:29:THR:HA	6:V:609:ARG:CG	1.80	1.10
6:U:418:ASN:N	6:W:298:PHE:CG	2.19	1.10
4:D:388:PRO:O	6:P:54:SER:OG	1.68	1.10
5:G:5:MET:CE	6:K:494:THR:CB	2.28	1.10
5:G:193:GLY:CA	6:I:364:PRO:CB	2.29	1.10
6:I:545:VAL:HG21	6:K:641:ILE:HD11	1.32	1.10
6:J:297:ALA:O	6:K:409:ILE:HD11	1.50	1.10
6:O:29:THR:HA	6:P:609:ARG:CG	1.81	1.10
6:O:411:VAL:CG1	6:Q:333:PRO:O	1.97	1.10
6:O:412:ARG:C	6:Q:459:LEU:HD12	1.76	1.10
6:P:168:THR:OG1	6:Q:537:SER:OG	1.69	1.10
6:U:299:ILE:CD1	6:V:419:MET:HE1	1.81	1.10
6:U:417:PHE:O	6:W:298:PHE:CD1	2.04	1.10
6:V:298:PHE:CG	6:W:417:PHE:C	2.29	1.10
6:V:644:LEU:HB3	6:W:548:LYS:CE	1.77	1.10
4:E:339:LEU:HD22	6:U:55:VAL:CG2	1.80	1.10
4:E:400:THR:HB	6:U:53:THR:N	1.64	1.10
5:H:4:HIS:ND1	6:I:586:VAL:HG13	1.64	1.10
6:I:161:LYS:CE	6:J:533:ASP:CA	2.28	1.10
6:I:193:ILE:CG2	6:J:562:TYR:OH	1.97	1.10
6:I:193:ILE:CB	6:J:562:TYR:OH	1.93	1.10
6:I:242:PHE:CE1	6:K:82:PHE:CZ	2.39	1.10
6:J:161:LYS:CE	6:K:533:ASP:HA	1.81	1.10
6:J:298:PHE:CG	6:K:417:PHE:O	2.04	1.10
5:M:193:GLY:HA3	6:O:364:PRO:CB	1.81	1.10
6:O:284:VAL:HG21	6:Q:619:ASP:HB2	1.12	1.10
6:O:456:ASN:ND2	6:P:412:ARG:CB	2.10	1.10
6:O:606:THR:HG22	6:Q:28:SER:HB2	1.25	1.10
6:O:630:LEU:HD13	6:P:275:GLU:HG3	1.24	1.10
6:P:42:ASN:OD1	6:Q:84:LYS:HD2	1.45	1.10
6:P:147:ARG:HG2	6:W:100:LYS:HD3	1.26	1.10
6:P:458:THR:CA	6:Q:412:ARG:NE	2.08	1.10
6:U:193:ILE:CG2	6:V:562:TYR:OH	1.97	1.10
6:U:242:PHE:CE1	6:W:82:PHE:HZ	1.69	1.10
6:V:36:LEU:HD21	6:W:242:PHE:CG	1.86	1.10
2:B:376:LEU:HD13	4:D:249:LYS:HD2	1.15	1.10
2:B:880:LEU:CG	4:D:31:GLY:O	1.70	1.10
2:B:1178:ARG:HG2	4:D:241:LEU:HD22	1.15	1.10
5:G:194:LEU:CD2	6:I:447:SER:CB	2.25	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:29:THR:HA	6:J:609:ARG:CG	1.80	1.10
6:I:284:VAL:HG21	6:K:619:ASP:CB	1.82	1.10
6:I:459:LEU:CD2	6:J:409:ILE:HG22	1.81	1.10
6:I:482:ASP:OD2	6:K:530:ARG:NH1	1.84	1.10
6:I:644:LEU:HB3	6:J:548:LYS:CE	1.75	1.10
5:N:4:HIS:HB3	6:O:586:VAL:HG21	1.20	1.10
6:O:533:ASP:CB	6:Q:161:LYS:CE	2.29	1.10
6:O:548:LYS:CE	6:Q:644:LEU:HB3	1.78	1.10
6:P:30:ALA:CB	6:Q:610:THR:CG2	2.29	1.10
5:S:4:HIS:CE1	6:W:587:GLY:CA	2.29	1.10
5:T:4:HIS:ND1	6:U:586:VAL:HG13	1.66	1.10
5:T:44:GLY:CA	6:V:400:ALA:CB	2.17	1.10
6:U:193:ILE:CB	6:V:562:TYR:HE1	1.53	1.10
6:U:533:ASP:CB	6:W:161:LYS:CE	2.29	1.10
6:U:562:TYR:CG	6:W:193:ILE:O	2.03	1.10
6:V:29:THR:CA	6:W:609:ARG:CD	2.29	1.10
3:C:381:VAL:HG12	3:C:439:THR:HG21	1.26	1.10
6:I:160:GLN:NE2	6:J:612:SER:O	1.71	1.10
6:I:275:GLU:HG3	6:K:630:LEU:CD1	1.78	1.10
6:I:456:ASN:CB	6:J:412:ARG:HA	1.81	1.10
6:I:471:LEU:HD11	6:K:578:SER:HB3	1.11	1.10
6:I:472:ARG:HD2	6:K:530:ARG:HA	1.22	1.10
6:I:533:ASP:CA	6:K:161:LYS:HE2	1.81	1.10
6:J:41:LEU:HD13	6:K:239:ALA:HA	1.33	1.10
6:J:42:ASN:OD1	6:K:84:LYS:HD2	1.46	1.10
6:O:193:ILE:CG2	6:P:562:TYR:OH	1.95	1.10
6:O:235:LEU:HD23	6:Q:42:ASN:HD22	1.15	1.10
6:O:412:ARG:HG3	6:Q:456:ASN:OD1	1.31	1.10
6:O:418:ASN:N	6:Q:298:PHE:CE2	2.16	1.10
6:O:471:LEU:HD11	6:Q:578:SER:HB3	1.10	1.10
6:O:545:VAL:HG21	6:Q:641:ILE:HD11	1.30	1.10
6:O:626:ALA:HB1	6:P:275:GLU:O	1.52	1.10
6:P:36:LEU:HD21	6:Q:242:PHE:CG	1.86	1.10
6:P:42:ASN:HD22	6:Q:235:LEU:HD23	1.14	1.10
6:P:459:LEU:CD1	6:Q:412:ARG:C	2.25	1.10
5:T:193:GLY:HA3	6:V:364:PRO:HG2	1.27	1.10
6:U:42:ASN:HD22	6:V:235:LEU:HD23	1.16	1.10
6:U:84:LYS:HE3	6:W:44:THR:HA	1.27	1.10
6:U:165:THR:HG22	6:V:534:SER:HA	1.14	1.10
6:U:169:MET:O	6:V:541:SER:HA	1.49	1.10
6:U:193:ILE:O	6:V:562:TYR:CG	2.04	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:44:THR:HB	6:W:84:LYS:CE	1.59	1.10
2:B:219:LEU:O	2:B:220:ILE:HG23	1.48	1.09
3:C:314:SER:C	3:C:1196:ARG:CD	2.25	1.09
4:D:390:ASN:HA	6:P:55:VAL:HG22	1.11	1.09
5:H:4:HIS:HE1	6:I:587:GLY:HA3	1.16	1.09
6:I:193:ILE:CB	6:J:562:TYR:HE1	1.54	1.09
6:J:457:PRO:CG	6:K:411:VAL:HG12	1.53	1.09
6:J:459:LEU:HG	6:K:412:ARG:CB	1.80	1.09
5:M:4:HIS:HB3	6:Q:586:VAL:HG21	1.13	1.09
5:M:193:GLY:CA	6:O:364:PRO:CB	2.30	1.09
6:O:239:ALA:HA	6:Q:41:LEU:HD13	1.33	1.09
6:O:411:VAL:HG21	6:Q:333:PRO:O	1.46	1.09
6:O:412:ARG:CZ	6:Q:459:LEU:CB	2.30	1.09
6:O:459:LEU:HG	6:P:412:ARG:CB	1.81	1.09
6:O:530:ARG:NH2	6:P:482:ASP:OD2	1.83	1.09
6:P:66:ASP:OD1	6:Q:232:ALA:CB	1.93	1.09
6:P:298:PHE:CG	6:Q:417:PHE:C	2.29	1.09
5:S:194:LEU:CD2	6:U:447:SER:CB	2.25	1.09
6:U:456:ASN:CB	6:V:412:ARG:HA	1.81	1.09
6:U:459:LEU:CD2	6:V:409:ILE:HG22	1.81	1.09
6:U:640:GLN:NE2	6:V:545:VAL:CG1	2.14	1.09
6:U:641:ILE:CD1	6:V:545:VAL:HG21	1.80	1.09
6:V:161:LYS:HZ1	6:W:533:ASP:HA	0.95	1.09
6:V:333:PRO:O	6:W:411:VAL:HG21	1.45	1.09
6:V:459:LEU:HD12	6:W:412:ARG:CA	1.81	1.09
2:B:308:ASN:HA	2:B:399:ARG:NH2	1.37	1.09
5:H:193:GLY:CA	6:J:364:PRO:HG2	1.79	1.09
6:I:193:ILE:O	6:J:562:TYR:CG	2.05	1.09
6:I:459:LEU:HG	6:J:412:ARG:CB	1.80	1.09
6:J:459:LEU:CD1	6:K:412:ARG:C	2.25	1.09
6:O:84:LYS:HE3	6:Q:44:THR:HA	1.27	1.09
6:O:459:LEU:HD11	6:P:414:GLN:OE1	1.41	1.09
6:O:482:ASP:OD2	6:Q:530:ARG:NH2	1.83	1.09
6:O:606:THR:CG2	6:Q:173:ASP:OD2	2.00	1.09
6:O:619:ASP:CB	6:P:284:VAL:HG21	1.82	1.09
6:O:640:GLN:NE2	6:P:545:VAL:CG1	2.14	1.09
6:P:160:GLN:NE2	6:Q:612:SER:O	1.80	1.09
6:P:160:GLN:HB3	6:Q:612:SER:OG	1.39	1.09
6:P:161:LYS:CE	6:Q:533:ASP:HA	1.80	1.09
6:U:41:LEU:HD13	6:V:239:ALA:HA	1.33	1.09
6:U:412:ARG:CZ	6:W:459:LEU:CB	2.30	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:457:PRO:CG	6:W:411:VAL:HG12	1.54	1.09
2:B:378:GLY:O	3:C:798:VAL:CG1	1.86	1.09
6:I:275:GLU:HG3	6:K:630:LEU:HD13	1.31	1.09
6:I:412:ARG:CB	6:K:459:LEU:CD1	2.22	1.09
6:I:534:SER:CA	6:K:165:THR:CG2	2.17	1.09
6:I:537:SER:OG	6:K:168:THR:OG1	1.69	1.09
6:J:32:PRO:HG3	6:K:609:ARG:O	1.53	1.09
6:O:270:ASP:OD2	6:Q:623:LYS:HE2	1.52	1.09
6:O:459:LEU:CD1	6:P:412:ARG:CB	2.22	1.09
6:U:82:PHE:HZ	6:V:242:PHE:CE1	1.68	1.09
6:U:412:ARG:CB	6:W:456:ASN:ND2	1.99	1.09
6:V:298:PHE:CG	6:W:417:PHE:O	2.04	1.09
2:B:407:ARG:HG2	4:D:184:HIS:HE1	1.18	1.09
3:C:1064:TRP:CH2	3:C:1100:LEU:HB3	1.88	1.09
4:D:183:ALA:O	4:D:187:GLN:OE1	1.70	1.09
4:E:339:LEU:HD22	6:U:55:VAL:HG22	1.29	1.09
6:I:235:LEU:HD23	6:K:42:ASN:HD22	1.13	1.09
6:I:412:ARG:HB3	6:K:456:ASN:OD1	1.42	1.09
6:I:414:GLN:OE1	6:K:459:LEU:HD11	1.37	1.09
6:I:418:ASN:N	6:K:298:PHE:CG	2.20	1.09
6:J:44:THR:HG21	6:K:84:LYS:HZ2	1.18	1.09
5:L:44:GLY:HA3	6:Q:400:ALA:HB1	1.16	1.09
6:O:459:LEU:CD2	6:P:409:ILE:HG22	1.81	1.09
6:O:471:LEU:HD11	6:Q:578:SER:CB	1.82	1.09
6:O:609:ARG:HD2	6:Q:29:THR:HB	1.27	1.09
6:P:459:LEU:HG	6:Q:412:ARG:CB	1.82	1.09
6:P:623:LYS:HE2	6:Q:270:ASP:OD2	1.51	1.09
6:U:195:PRO:HD3	6:V:562:TYR:CG	1.88	1.09
6:U:414:GLN:OE1	6:W:459:LEU:HD11	1.37	1.09
6:U:459:LEU:HD21	6:V:414:GLN:OE1	1.40	1.09
6:U:471:LEU:HD11	6:W:578:SER:CB	1.83	1.09
6:U:545:VAL:CG1	6:W:640:GLN:NE2	2.09	1.09
6:V:29:THR:HB	6:W:609:ARG:HD2	1.33	1.09
6:V:66:ASP:HB2	6:W:232:ALA:HB1	1.15	1.09
5:F:4:HIS:HE1	6:J:587:GLY:HA3	1.16	1.09
5:F:5:MET:HE3	6:J:494:THR:HG21	1.13	1.09
5:G:4:HIS:HB3	6:K:586:VAL:HG21	1.14	1.09
6:I:606:THR:CG2	6:K:173:ASP:OD2	2.00	1.09
6:I:630:LEU:HD13	6:J:275:GLU:HG3	1.25	1.09
6:J:195:PRO:CD	6:K:562:TYR:HB3	1.82	1.09
6:J:333:PRO:HG2	6:K:411:VAL:HG13	1.30	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:459:LEU:CD1	6:K:412:ARG:CB	2.24	1.09
5:M:4:HIS:CE1	6:Q:587:GLY:CA	2.28	1.09
5:N:2:PRO:HG2	6:O:587:GLY:HA2	1.13	1.09
6:O:195:PRO:HD3	6:P:562:TYR:HB3	1.17	1.09
6:O:418:ASN:N	6:Q:298:PHE:CG	2.20	1.09
6:O:630:LEU:CD1	6:P:275:GLU:HG3	1.75	1.09
6:P:333:PRO:O	6:Q:411:VAL:HG21	1.44	1.09
6:U:253:VAL:HG13	6:W:36:LEU:HD23	1.18	1.09
6:U:284:VAL:HG21	6:W:619:ASP:CB	1.81	1.09
6:V:161:LYS:CE	6:W:533:ASP:HA	1.83	1.09
6:V:459:LEU:HG	6:W:412:ARG:CB	1.82	1.09
6:X:587:GLY:CA	5:Y:2:PRO:HG2	1.82	1.09
1:A:152:THR:CB	3:C:598:PRO:CB	2.30	1.08
2:B:375:ASN:HD21	3:C:798:VAL:CG2	1.65	1.08
6:I:169:MET:HA	6:J:541:SER:OG	1.31	1.08
6:I:533:ASP:CB	6:K:161:LYS:CE	2.29	1.08
6:I:562:TYR:CE1	6:K:193:ILE:O	1.88	1.08
5:N:4:HIS:CE1	6:O:587:GLY:CA	2.27	1.08
6:O:275:GLU:HG3	6:Q:630:LEU:CD1	1.78	1.08
6:O:333:PRO:O	6:P:411:VAL:HG21	1.51	1.08
6:V:29:THR:HB	6:W:609:ARG:CD	1.83	1.08
6:V:195:PRO:CD	6:W:562:TYR:HB3	1.82	1.08
6:V:459:LEU:CD1	6:W:412:ARG:CB	2.24	1.08
6:V:459:LEU:CD1	6:W:412:ARG:C	2.25	1.08
2:B:1182:ASN:N	4:D:52:PRO:HB3	1.65	1.08
6:I:36:LEU:HD23	6:J:253:VAL:HG13	1.14	1.08
5:L:44:GLY:HA2	6:Q:400:ALA:O	1.53	1.08
5:L:194:LEU:CD2	6:Q:447:SER:OG	2.00	1.08
6:O:456:ASN:CB	6:P:412:ARG:HA	1.82	1.08
6:O:459:LEU:HD21	6:P:414:GLN:OE1	1.41	1.08
6:P:29:THR:CA	6:Q:609:ARG:HD2	1.84	1.08
5:S:193:GLY:HA3	6:U:364:PRO:CB	1.82	1.08
6:U:30:ALA:HB2	6:V:610:THR:HG22	1.09	1.08
6:U:298:PHE:CE2	6:V:417:PHE:N	2.06	1.08
6:U:533:ASP:CA	6:W:161:LYS:HE2	1.82	1.08
6:U:606:THR:CG2	6:W:173:ASP:OD2	2.00	1.08
6:V:297:ALA:O	6:W:409:ILE:HD11	1.50	1.08
2:B:959:ARG:NH1	4:D:40:ARG:HG2	1.67	1.08
3:C:315:SER:N	3:C:1196:ARG:HD3	1.20	1.08
3:C:377:ILE:HG21	3:C:381:VAL:N	1.67	1.08
3:C:712:VAL:O	3:C:726:ARG:NH1	1.87	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:194:LEU:CD2	6:K:447:SER:OG	2.00	1.08
6:I:169:MET:O	6:J:541:SER:HA	1.48	1.08
6:I:275:GLU:O	6:K:626:ALA:HB1	1.53	1.08
6:I:528:ALA:CB	6:J:283:SER:HB2	1.83	1.08
6:J:29:THR:HB	6:K:609:ARG:CD	1.84	1.08
6:O:354:SER:CB	6:Q:295:ARG:HH22	1.67	1.08
6:O:562:TYR:CE1	6:Q:193:ILE:CA	2.19	1.08
6:P:195:PRO:CD	6:Q:562:TYR:HB3	1.83	1.08
6:P:298:PHE:CG	6:Q:417:PHE:O	2.04	1.08
5:R:194:LEU:CD2	6:W:447:SER:OG	2.00	1.08
6:U:235:LEU:CD2	6:W:42:ASN:HD22	1.57	1.08
6:U:619:ASP:CB	6:V:284:VAL:HG21	1.82	1.08
6:V:41:LEU:HD13	6:W:239:ALA:HA	1.31	1.08
2:B:375:ASN:ND2	3:C:798:VAL:HG23	1.69	1.08
5:G:191:LYS:O	6:I:364:PRO:HB3	1.53	1.08
6:I:44:THR:HB	6:J:84:LYS:HZ1	1.04	1.08
6:I:195:PRO:HD3	6:J:562:TYR:CG	1.88	1.08
6:I:239:ALA:HA	6:K:41:LEU:HD13	1.33	1.08
6:I:417:PHE:C	6:K:298:PHE:CG	2.32	1.08
6:I:419:MET:HE1	6:K:299:ILE:CD1	1.83	1.08
6:I:459:LEU:N	6:J:412:ARG:NE	1.76	1.08
6:J:36:LEU:HD21	6:K:242:PHE:CG	1.87	1.08
6:J:160:GLN:HB3	6:K:612:SER:OG	1.39	1.08
6:J:173:ASP:OD2	6:K:606:THR:CG2	2.01	1.08
6:J:578:SER:CB	6:K:471:LEU:CD1	2.32	1.08
5:M:44:GLY:CA	6:O:400:ALA:C	2.20	1.08
6:O:161:LYS:CE	6:P:533:ASP:CA	2.27	1.08
6:O:193:ILE:O	6:P:562:TYR:CG	2.05	1.08
6:P:173:ASP:OD2	6:Q:606:THR:CG2	2.02	1.08
6:P:297:ALA:O	6:Q:409:ILE:HD11	1.52	1.08
6:U:30:ALA:HB3	6:V:610:THR:HA	1.35	1.08
6:U:242:PHE:HE2	6:W:41:LEU:CD2	1.59	1.08
6:U:275:GLU:O	6:W:626:ALA:HB1	1.53	1.08
6:U:284:VAL:HG21	6:W:619:ASP:HB2	1.11	1.08
6:U:562:TYR:HB3	6:W:195:PRO:HD3	1.28	1.08
6:V:30:ALA:HB2	6:W:610:THR:HG22	1.09	1.08
2:B:432:ILE:HD12	3:C:614:GLN:HG2	1.23	1.08
2:B:1213:ALA:CA	3:C:552:ASP:OD2	1.81	1.08
4:E:400:THR:CG2	6:U:53:THR:HG22	1.82	1.08
5:H:4:HIS:HB3	6:I:586:VAL:HG21	1.20	1.08
6:I:541:SER:CB	6:K:169:MET:C	2.27	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:619:ASP:CB	6:J:284:VAL:HG21	1.82	1.08
6:J:29:THR:HB	6:K:609:ARG:CG	1.83	1.08
6:J:29:THR:HB	6:K:609:ARG:HD2	1.34	1.08
6:O:242:PHE:CE1	6:Q:82:PHE:HZ	1.71	1.08
6:O:456:ASN:OD1	6:P:412:ARG:HG3	1.28	1.08
6:O:548:LYS:HE3	6:Q:644:LEU:CA	1.83	1.08
5:R:5:MET:HE3	6:V:494:THR:HG21	1.13	1.08
5:T:2:PRO:HG2	6:U:587:GLY:HA2	1.13	1.08
6:U:298:PHE:CE2	6:V:418:ASN:N	2.18	1.08
6:U:456:ASN:ND2	6:V:412:ARG:CB	2.11	1.08
6:U:528:ALA:CB	6:V:283:SER:HB2	1.84	1.08
6:V:32:PRO:HG3	6:W:609:ARG:O	1.52	1.08
6:V:160:GLN:HE21	6:W:612:SER:C	1.48	1.08
6:V:173:ASP:OD2	6:W:606:THR:CG2	2.02	1.08
2:B:774:LEU:HD12	2:B:774:LEU:O	1.53	1.07
3:C:938:TYR:CZ	3:C:946:VAL:HG11	1.75	1.07
4:D:393:ASP:OD2	6:P:53:THR:C	1.97	1.07
4:E:339:LEU:HD13	6:U:55:VAL:CG1	1.84	1.07
5:F:44:GLY:HA2	6:K:400:ALA:O	1.53	1.07
6:I:161:LYS:HG2	6:J:533:ASP:OD1	1.54	1.07
6:I:354:SER:CB	6:K:295:ARG:HH22	1.66	1.07
6:I:626:ALA:HB1	6:J:275:GLU:O	1.52	1.07
6:J:298:PHE:HB3	6:K:419:MET:N	1.69	1.07
6:J:623:LYS:HE2	6:K:270:ASP:OD2	1.51	1.07
6:O:168:THR:OG1	6:P:537:SER:OG	1.71	1.07
6:O:195:PRO:HD3	6:P:562:TYR:CG	1.88	1.07
6:O:562:TYR:CB	6:Q:195:PRO:HD3	1.83	1.07
6:P:28:SER:HB2	6:Q:606:THR:HG22	1.36	1.07
6:P:29:THR:HB	6:Q:609:ARG:CD	1.84	1.07
5:S:193:GLY:CA	6:U:364:PRO:CB	2.30	1.07
6:U:44:THR:HB	6:V:84:LYS:HZ1	0.98	1.07
6:U:84:LYS:HD2	6:W:42:ASN:OD1	1.51	1.07
6:U:160:GLN:CD	6:V:612:SER:OG	1.83	1.07
6:U:411:VAL:HG21	6:W:333:PRO:O	1.46	1.07
6:U:412:ARG:C	6:W:459:LEU:HD12	1.77	1.07
6:W:144:ASN:HA	6:W:147:ARG:HE	1.16	1.07
3:C:715:VAL:HG23	3:C:726:ARG:NE	1.47	1.07
4:E:339:LEU:CD1	6:U:55:VAL:CG1	2.30	1.07
6:I:160:GLN:HE21	6:J:612:SER:C	1.49	1.07
6:I:235:LEU:CD2	6:K:42:ASN:HD22	1.57	1.07
6:I:298:PHE:CE2	6:J:417:PHE:N	2.07	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:411:VAL:HG13	6:K:333:PRO:HG2	1.33	1.07
6:I:412:ARG:C	6:K:459:LEU:HD12	1.76	1.07
6:I:471:LEU:HD11	6:K:578:SER:CB	1.83	1.07
6:I:548:LYS:HE3	6:K:644:LEU:CA	1.84	1.07
6:I:562:TYR:CB	6:K:195:PRO:HD3	1.84	1.07
6:I:578:SER:HB3	6:J:471:LEU:HD11	1.16	1.07
6:I:630:LEU:CD1	6:J:275:GLU:HG3	1.76	1.07
6:J:28:SER:HB2	6:K:606:THR:HG22	1.35	1.07
6:O:417:PHE:C	6:Q:298:PHE:CG	2.33	1.07
6:P:528:ALA:HB1	6:Q:283:SER:HA	1.13	1.07
5:R:5:MET:HE2	6:V:494:THR:OG1	1.53	1.07
6:U:44:THR:HA	6:V:84:LYS:HE3	1.28	1.07
6:U:459:LEU:CD1	6:V:412:ARG:CB	2.21	1.07
6:V:29:THR:HB	6:W:609:ARG:CG	1.84	1.07
2:B:376:LEU:HA	3:C:797:ALA:CB	1.82	1.07
6:I:641:ILE:CD1	6:J:545:VAL:HG11	1.84	1.07
6:J:168:THR:OG1	6:K:537:SER:OG	1.69	1.07
6:J:193:ILE:CB	6:K:562:TYR:HE1	1.56	1.07
5:M:4:HIS:HE1	6:Q:587:GLY:HA3	1.20	1.07
5:M:194:LEU:CD2	6:O:447:SER:CB	2.25	1.07
6:O:30:ALA:N	6:P:610:THR:CG2	2.18	1.07
6:O:235:LEU:CD2	6:Q:42:ASN:HD22	1.56	1.07
6:O:418:ASN:C	6:Q:298:PHE:HB3	1.80	1.07
6:O:419:MET:HE1	6:Q:299:ILE:CD1	1.83	1.07
6:P:29:THR:HB	6:Q:609:ARG:CG	1.83	1.07
6:P:298:PHE:CD2	6:Q:417:PHE:C	2.25	1.07
6:U:354:SER:CB	6:W:295:ARG:HH22	1.66	1.07
6:U:417:PHE:C	6:W:298:PHE:CG	2.32	1.07
2:B:951:PRO:HG3	4:D:98:SER:O	1.54	1.07
3:C:438:PRO:HG3	4:E:188:THR:CG2	1.85	1.07
3:C:938:TYR:CZ	3:C:946:VAL:CG1	2.13	1.07
3:C:1064:TRP:CH2	3:C:1100:LEU:CB	2.37	1.07
5:H:5:MET:HE2	6:I:494:THR:CB	1.85	1.07
5:H:193:GLY:CA	6:J:364:PRO:HB2	1.84	1.07
6:I:30:ALA:N	6:J:610:THR:CG2	2.18	1.07
6:I:299:ILE:CD1	6:J:419:MET:HE1	1.82	1.07
6:J:29:THR:CA	6:K:609:ARG:HD2	1.84	1.07
6:J:30:ALA:HB2	6:K:610:THR:HG22	1.09	1.07
6:J:66:ASP:OD1	6:K:232:ALA:CB	1.93	1.07
6:J:459:LEU:N	6:K:412:ARG:NE	1.76	1.07
6:O:160:GLN:HE21	6:P:612:SER:C	1.50	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:247:SER:N	6:Q:154:ARG:HH11	1.39	1.07
6:P:32:PRO:HG3	6:Q:609:ARG:O	1.52	1.07
6:P:41:LEU:HD13	6:Q:239:ALA:HA	1.34	1.07
5:R:44:GLY:HA2	6:W:400:ALA:O	1.53	1.07
5:S:4:HIS:HB3	6:W:586:VAL:HG21	1.12	1.07
6:U:284:VAL:HG13	6:W:619:ASP:CG	1.79	1.07
6:U:562:TYR:CB	6:W:195:PRO:HD3	1.83	1.07
6:U:626:ALA:HB1	6:V:275:GLU:O	1.51	1.07
6:V:42:ASN:HD22	6:W:235:LEU:HD23	1.13	1.07
1:A:379:VAL:HG13	6:I:60:SER:OG	1.48	1.07
2:B:1181:THR:O	4:D:52:PRO:CG	2.01	1.07
3:C:792:GLN:NE2	4:D:225:ARG:HH12	1.52	1.07
6:J:29:THR:CA	6:K:609:ARG:CD	2.29	1.07
6:J:66:ASP:HB2	6:K:232:ALA:HB1	1.17	1.07
6:J:626:ALA:HB1	6:K:275:GLU:O	1.54	1.07
5:N:193:GLY:CA	6:P:364:PRO:HB2	1.85	1.07
6:O:44:THR:HA	6:P:84:LYS:HE3	1.30	1.07
6:O:412:ARG:CZ	6:Q:459:LEU:HD23	1.85	1.07
6:U:548:LYS:HE3	6:W:644:LEU:CA	1.83	1.07
6:V:160:GLN:NE2	6:W:612:SER:O	1.80	1.07
2:B:397:HIS:CA	2:B:400:GLU:OE2	2.02	1.06
4:E:400:THR:HB	6:U:53:THR:HA	1.36	1.06
6:I:154:ARG:NH1	6:J:246:THR:HB	1.69	1.06
6:I:418:ASN:N	6:K:298:PHE:CE2	2.18	1.06
6:O:472:ARG:HD2	6:Q:530:ARG:HA	1.22	1.06
6:O:530:ARG:HA	6:P:472:ARG:HD2	1.33	1.06
6:P:121:ALA:HB1	6:Q:87:PHE:CG	1.87	1.06
6:U:418:ASN:CA	6:W:298:PHE:CD2	2.38	1.06
6:U:459:LEU:CD1	6:V:414:GLN:NE2	2.10	1.06
6:V:641:ILE:HD11	6:W:545:VAL:HG21	1.32	1.06
2:B:452:ARG:NH1	2:B:666:ALA:HB1	1.70	1.06
4:D:392:ALA:HB2	6:P:49:ARG:CD	1.84	1.06
5:H:4:HIS:CE1	6:I:586:VAL:HG22	1.89	1.06
6:I:29:THR:CA	6:J:609:ARG:HD2	1.61	1.06
6:I:173:ASP:OD2	6:J:606:THR:CG2	2.03	1.06
6:I:284:VAL:HG21	6:K:619:ASP:HB2	1.13	1.06
6:I:412:ARG:CZ	6:K:459:LEU:HD23	1.84	1.06
6:I:609:ARG:HD2	6:K:29:THR:HB	1.28	1.06
6:J:44:THR:HA	6:K:84:LYS:HE3	1.26	1.06
6:J:298:PHE:CD2	6:K:417:PHE:C	2.25	1.06
6:J:530:ARG:HA	6:K:472:ARG:HD2	1.24	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:30:ALA:HB3	6:P:610:THR:HA	1.36	1.06
6:O:409:ILE:HG22	6:Q:459:LEU:CD2	1.86	1.06
6:O:528:ALA:CB	6:P:283:SER:HB2	1.83	1.06
6:O:562:TYR:HB3	6:Q:195:PRO:HD3	1.29	1.06
6:O:644:LEU:HB3	6:P:548:LYS:CE	1.76	1.06
6:P:29:THR:CA	6:Q:609:ARG:CD	2.29	1.06
6:P:29:THR:HB	6:Q:609:ARG:HD2	1.34	1.06
6:P:298:PHE:HB3	6:Q:419:MET:N	1.69	1.06
6:P:626:ALA:HB1	6:Q:275:GLU:O	1.54	1.06
6:U:239:ALA:HA	6:W:41:LEU:HD13	1.33	1.06
6:U:619:ASP:HB2	6:V:284:VAL:HG21	1.12	1.06
6:V:298:PHE:CD2	6:W:417:PHE:C	2.26	1.06
2:B:409:MET:CE	2:B:443:PRO:O	2.01	1.06
3:C:1064:TRP:HH2	3:C:1100:LEU:CB	1.67	1.06
4:E:339:LEU:CD2	6:U:55:VAL:CG2	2.33	1.06
4:E:401:ALA:H	6:U:52:GLY:CA	1.54	1.06
5:F:4:HIS:CE1	6:J:587:GLY:CA	2.35	1.06
6:I:270:ASP:OD2	6:K:623:LYS:CE	2.04	1.06
6:I:409:ILE:HG22	6:K:459:LEU:CD2	1.85	1.06
6:J:530:ARG:NH1	6:K:482:ASP:OD2	1.88	1.06
5:L:5:MET:HE2	6:P:494:THR:OG1	1.54	1.06
6:O:411:VAL:HG11	6:Q:457:PRO:HG2	1.14	1.06
6:O:418:ASN:CA	6:Q:298:PHE:CD2	2.39	1.06
6:O:534:SER:CA	6:Q:165:THR:CG2	2.16	1.06
6:P:147:ARG:NE	6:W:100:LYS:CD	2.07	1.06
5:R:4:HIS:CE1	6:V:587:GLY:CA	2.36	1.06
5:S:193:GLY:HA3	6:U:364:PRO:HB2	1.37	1.06
6:U:154:ARG:NH1	6:V:246:THR:HB	1.70	1.06
6:U:418:ASN:C	6:W:298:PHE:HB3	1.79	1.06
6:U:541:SER:CB	6:W:169:MET:C	2.28	1.06
6:U:541:SER:HB3	6:W:169:MET:O	1.56	1.06
6:U:612:SER:C	6:W:160:GLN:HE21	1.48	1.06
6:V:298:PHE:CE2	6:W:418:ASN:N	2.13	1.06
6:V:298:PHE:HB3	6:W:419:MET:N	1.70	1.06
2:B:408:SER:OG	4:D:191:ARG:CZ	2.03	1.06
2:B:409:MET:HE3	2:B:443:PRO:CA	1.85	1.06
2:B:452:ARG:NH1	2:B:666:ALA:CB	2.01	1.06
2:B:954:PRO:HB3	4:D:40:ARG:N	1.71	1.06
6:I:29:THR:HA	6:J:609:ARG:NE	1.70	1.06
6:I:147:ARG:HG2	6:Q:100:LYS:CD	1.81	1.06
6:I:295:ARG:HH12	6:J:419:MET:CA	1.68	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:562:TYR:HB3	6:K:195:PRO:HG3	1.35	1.06
6:I:578:SER:CB	6:J:471:LEU:HD11	1.86	1.06
5:L:193:GLY:HA2	6:Q:364:PRO:CG	1.83	1.06
6:O:161:LYS:HG2	6:P:533:ASP:OD1	1.54	1.06
6:O:173:ASP:OD2	6:P:606:THR:CG2	2.03	1.06
6:O:247:SER:H	6:Q:154:ARG:NH1	1.34	1.06
6:O:459:LEU:N	6:P:412:ARG:NE	1.76	1.06
5:T:4:HIS:CE1	6:U:586:VAL:HG22	1.89	1.06
6:U:612:SER:CA	6:W:160:GLN:NE2	1.85	1.06
6:V:165:THR:CG2	6:W:534:SER:HB3	1.74	1.06
6:V:298:PHE:CG	6:W:418:ASN:N	2.24	1.06
6:V:459:LEU:HD11	6:W:414:GLN:OE1	1.45	1.06
6:V:619:ASP:CB	6:W:284:VAL:HG11	1.86	1.06
6:V:626:ALA:HB1	6:W:275:GLU:O	1.55	1.06
4:D:390:ASN:ND2	6:P:50:PRO:HG2	1.68	1.06
4:D:392:ALA:H	6:P:49:ARG:CZ	1.68	1.06
4:E:332:PRO:O	6:U:54:SER:OG	1.71	1.06
5:F:5:MET:HE2	6:J:494:THR:OG1	1.55	1.06
6:I:30:ALA:HB2	6:J:610:THR:HG22	1.08	1.06
6:I:412:ARG:NE	6:K:459:LEU:N	1.76	1.06
6:I:418:ASN:C	6:K:298:PHE:HB3	1.80	1.06
6:J:82:PHE:CZ	6:K:242:PHE:HZ	1.70	1.06
6:J:457:PRO:HG2	6:K:411:VAL:HG11	1.09	1.06
6:O:82:PHE:CE2	6:P:242:PHE:HZ	1.74	1.06
6:O:275:GLU:O	6:Q:626:ALA:HB1	1.53	1.06
6:O:578:SER:HB3	6:P:471:LEU:HD11	1.16	1.06
5:T:4:HIS:HE1	6:U:587:GLY:HA3	1.16	1.06
6:U:270:ASP:OD2	6:W:623:LYS:CE	2.04	1.06
6:U:295:ARG:HH12	6:V:419:MET:CA	1.68	1.06
6:U:530:ARG:HA	6:V:472:ARG:HD2	1.31	1.06
6:U:578:SER:CB	6:V:471:LEU:HD11	1.86	1.06
6:U:644:LEU:CD2	6:V:548:LYS:HZ2	1.53	1.06
5:G:192:THR:C	6:I:364:PRO:HB2	1.80	1.05
5:H:194:LEU:CD2	6:J:447:SER:CB	2.29	1.05
6:I:82:PHE:CE2	6:J:242:PHE:HZ	1.74	1.05
6:I:87:PHE:CG	6:K:121:ALA:HB1	1.91	1.05
6:I:193:ILE:CA	6:J:562:TYR:CE1	2.16	1.05
6:I:295:ARG:NH2	6:J:354:SER:CB	2.19	1.05
6:I:418:ASN:CA	6:K:298:PHE:CB	2.15	1.05
6:I:533:ASP:CA	6:K:161:LYS:CE	2.35	1.05
6:J:82:PHE:CZ	6:K:242:PHE:CE1	2.45	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:459:LEU:CD1	6:K:414:GLN:HE22	1.61	1.05
6:J:528:ALA:HB1	6:K:283:SER:HA	1.15	1.05
5:M:192:THR:C	6:O:364:PRO:HB2	1.81	1.05
6:O:84:LYS:HD2	6:Q:42:ASN:OD1	1.50	1.05
6:O:411:VAL:HG13	6:Q:333:PRO:HG2	1.33	1.05
6:O:412:ARG:NE	6:Q:459:LEU:N	1.75	1.05
6:O:609:ARG:CG	6:Q:29:THR:HA	1.85	1.05
6:P:195:PRO:HD3	6:Q:562:TYR:HB3	1.38	1.05
6:P:530:ARG:NH1	6:Q:482:ASP:OD2	1.88	1.05
6:U:29:THR:HA	6:V:609:ARG:NE	1.71	1.05
6:U:30:ALA:N	6:V:610:THR:CG2	2.18	1.05
6:U:247:SER:N	6:W:154:ARG:HH11	1.40	1.05
6:U:270:ASP:OD2	6:W:623:LYS:HE2	1.54	1.05
6:U:275:GLU:HG3	6:W:630:LEU:HD13	1.32	1.05
6:U:412:ARG:HA	6:W:456:ASN:CB	1.86	1.05
6:U:419:MET:HE1	6:W:299:ILE:CD1	1.84	1.05
4:D:14:TYR:CE1	6:P:57:THR:N	2.23	1.05
4:D:388:PRO:HB2	6:P:56:ALA:HB2	1.07	1.05
6:I:411:VAL:HG11	6:K:457:PRO:HG2	1.10	1.05
6:I:412:ARG:CZ	6:K:459:LEU:CB	2.32	1.05
6:J:30:ALA:CB	6:K:610:THR:CG2	2.29	1.05
6:J:121:ALA:CB	6:K:87:PHE:CD1	2.23	1.05
5:N:4:HIS:CE1	6:O:586:VAL:HG22	1.90	1.05
5:N:5:MET:HE2	6:O:494:THR:CB	1.84	1.05
6:O:275:GLU:HG3	6:Q:630:LEU:HD13	1.32	1.05
6:O:284:VAL:HG13	6:Q:619:ASP:CG	1.78	1.05
6:O:533:ASP:CA	6:Q:161:LYS:CE	2.34	1.05
6:P:82:PHE:CZ	6:Q:242:PHE:CE1	2.44	1.05
5:R:191:LYS:O	6:W:364:PRO:HB3	1.56	1.05
5:S:192:THR:C	6:U:364:PRO:HB2	1.81	1.05
5:T:5:MET:HE2	6:U:494:THR:CB	1.84	1.05
6:U:168:THR:OG1	6:V:537:SER:OG	1.70	1.05
6:V:42:ASN:OD1	6:W:84:LYS:CE	2.04	1.05
2:B:376:LEU:O	3:C:797:ALA:CA	2.04	1.05
2:B:407:ARG:NE	4:D:184:HIS:CE1	2.02	1.05
2:B:437:ARG:NH1	4:D:173:ALA:HA	1.70	1.05
2:B:1178:ARG:CG	4:D:241:LEU:CD2	2.22	1.05
3:C:713:ASN:N	3:C:726:ARG:HH12	1.53	1.05
5:F:191:LYS:O	6:K:364:PRO:HB3	1.56	1.05
6:I:418:ASN:CA	6:K:298:PHE:CD2	2.38	1.05
6:J:528:ALA:CB	6:K:283:SER:C	2.30	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:193:GLY:N	6:Q:364:PRO:CB	2.19	1.05
5:M:191:LYS:O	6:O:364:PRO:HB3	1.54	1.05
5:N:4:HIS:HE1	6:O:587:GLY:HA3	1.16	1.05
6:O:154:ARG:NH1	6:P:246:THR:HB	1.70	1.05
6:O:193:ILE:CA	6:P:562:TYR:CE1	2.16	1.05
6:O:270:ASP:OD2	6:Q:623:LYS:CE	2.04	1.05
6:O:418:ASN:CG	6:Q:300:LYS:HZ3	1.46	1.05
6:O:641:ILE:CD1	6:P:545:VAL:HG11	1.85	1.05
6:U:42:ASN:OD1	6:V:84:LYS:HD2	1.57	1.05
6:U:411:VAL:HG11	6:W:457:PRO:HG2	1.11	1.05
6:U:456:ASN:ND2	6:V:412:ARG:CG	2.20	1.05
6:U:533:ASP:CA	6:W:161:LYS:CE	2.35	1.05
6:U:641:ILE:CG1	6:V:545:VAL:HG13	1.85	1.05
6:U:641:ILE:CD1	6:V:545:VAL:HG11	1.86	1.05
6:V:30:ALA:CB	6:W:610:THR:CG2	2.29	1.05
6:V:169:MET:O	6:W:541:SER:HB3	1.53	1.05
2:B:376:LEU:HA	3:C:797:ALA:HB2	1.06	1.05
2:B:426:ASN:ND2	3:C:609:THR:OG1	1.88	1.05
3:C:715:VAL:HG23	3:C:726:ARG:CZ	1.82	1.05
4:D:184:HIS:HA	4:D:187:GLN:OE1	1.54	1.05
4:D:393:ASP:OD2	6:P:54:SER:CA	2.05	1.05
6:I:42:ASN:OD1	6:J:84:LYS:HD2	1.56	1.05
6:I:270:ASP:OD2	6:K:623:LYS:HE2	1.53	1.05
6:I:333:PRO:O	6:J:411:VAL:HG21	1.51	1.05
6:I:412:ARG:HA	6:K:456:ASN:CB	1.87	1.05
5:L:4:HIS:HE1	6:P:587:GLY:HA3	1.17	1.05
5:N:194:LEU:CD2	6:P:447:SER:CB	2.29	1.05
6:O:193:ILE:O	6:P:562:TYR:CE1	1.95	1.05
6:O:298:PHE:CE2	6:P:418:ASN:N	2.18	1.05
6:O:333:PRO:O	6:P:411:VAL:HG22	1.45	1.05
6:O:459:LEU:CG	6:P:414:GLN:OE1	1.94	1.05
6:O:541:SER:CB	6:Q:169:MET:C	2.29	1.05
6:P:161:LYS:HE3	6:Q:533:ASP:OD1	1.57	1.05
6:P:456:ASN:OD1	6:Q:412:ARG:HB3	1.57	1.05
6:U:235:LEU:HD23	6:W:42:ASN:HD22	1.14	1.05
6:U:459:LEU:N	6:V:412:ARG:NE	1.76	1.05
6:V:29:THR:CB	6:W:609:ARG:HD2	1.87	1.05
6:V:640:GLN:HE22	6:W:545:VAL:HG13	1.21	1.05
5:F:193:GLY:N	6:K:364:PRO:CB	2.19	1.05
5:G:44:GLY:CA	6:I:400:ALA:C	2.20	1.05
6:I:28:SER:HB2	6:J:606:THR:CG2	1.87	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:29:THR:CB	6:J:609:ARG:CD	2.26	1.05
6:I:42:ASN:HD22	6:J:235:LEU:HD23	1.18	1.05
6:I:44:THR:OG1	6:J:84:LYS:HD3	1.57	1.05
6:I:168:THR:OG1	6:J:537:SER:OG	1.69	1.05
6:I:284:VAL:HG13	6:K:619:ASP:CG	1.80	1.05
6:I:456:ASN:ND2	6:J:412:ARG:CG	2.20	1.05
6:J:298:PHE:CG	6:K:418:ASN:N	2.24	1.05
5:L:4:HIS:CE1	6:P:587:GLY:CA	2.36	1.05
6:O:28:SER:HB2	6:P:606:THR:CG2	1.87	1.05
6:O:29:THR:HA	6:P:609:ARG:NE	1.70	1.05
6:O:295:ARG:HH12	6:P:419:MET:CA	1.67	1.05
6:O:534:SER:HB3	6:Q:165:THR:HG23	1.27	1.05
6:P:30:ALA:HB2	6:Q:610:THR:HG22	1.10	1.05
6:P:619:ASP:CG	6:Q:284:VAL:HG13	1.80	1.05
5:T:194:LEU:CD2	6:V:447:SER:CB	2.28	1.05
6:U:82:PHE:CE2	6:V:242:PHE:HZ	1.74	1.05
6:U:173:ASP:OD2	6:V:606:THR:CG2	2.03	1.05
6:U:412:ARG:CZ	6:W:459:LEU:HD23	1.86	1.05
6:V:457:PRO:HG2	6:W:411:VAL:HG11	1.09	1.05
6:V:530:ARG:NH1	6:W:482:ASP:OD2	1.88	1.05
2:B:409:MET:CE	2:B:443:PRO:HB2	1.85	1.04
2:B:437:ARG:NH1	4:D:173:ALA:CA	2.19	1.04
4:D:389:PHE:CB	6:P:54:SER:CA	2.23	1.04
4:D:389:PHE:N	6:P:54:SER:HB2	1.71	1.04
6:I:298:PHE:CG	6:J:417:PHE:O	2.09	1.04
6:I:412:ARG:HB2	6:K:459:LEU:HG	1.19	1.04
6:J:42:ASN:ND2	6:K:235:LEU:HD21	1.72	1.04
6:J:457:PRO:HD2	6:K:411:VAL:CG1	1.75	1.04
6:J:459:LEU:CG	6:K:414:GLN:OE1	1.93	1.04
6:J:459:LEU:HG	6:K:412:ARG:NE	1.72	1.04
6:O:30:ALA:HB2	6:P:610:THR:HG22	1.08	1.04
6:O:412:ARG:HA	6:Q:456:ASN:CB	1.88	1.04
6:P:42:ASN:OD1	6:Q:84:LYS:CE	2.04	1.04
6:P:459:LEU:HG	6:Q:412:ARG:NE	1.71	1.04
5:T:193:GLY:CA	6:V:364:PRO:HB2	1.86	1.04
6:U:84:LYS:HZ2	6:W:44:THR:HG21	1.11	1.04
6:U:298:PHE:CB	6:V:418:ASN:CA	2.11	1.04
6:U:409:ILE:HG22	6:W:459:LEU:CD2	1.85	1.04
6:U:411:VAL:CG1	6:W:457:PRO:HG3	1.63	1.04
6:U:411:VAL:HG13	6:W:333:PRO:HG2	1.33	1.04
6:U:641:ILE:HG13	6:V:545:VAL:HG13	1.35	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:336:ALA:H	6:U:54:SER:HB2	1.15	1.04
6:I:640:GLN:NE2	6:J:545:VAL:CG1	2.14	1.04
6:J:459:LEU:HD23	6:K:412:ARG:HH22	0.99	1.04
6:J:619:ASP:HB2	6:K:284:VAL:HG21	1.04	1.04
5:L:44:GLY:CA	6:Q:400:ALA:CB	2.25	1.04
6:O:459:LEU:HG	6:P:412:ARG:CZ	1.86	1.04
6:O:578:SER:CB	6:P:471:LEU:HD11	1.86	1.04
6:P:193:ILE:CB	6:Q:562:TYR:HE1	1.56	1.04
5:S:4:HIS:CB	6:W:586:VAL:CG2	2.32	1.04
5:S:191:LYS:O	6:U:364:PRO:HB3	1.55	1.04
6:U:298:PHE:HZ	6:V:417:PHE:N	1.29	1.04
6:U:562:TYR:HE1	6:W:193:ILE:CB	1.58	1.04
6:V:82:PHE:CZ	6:W:242:PHE:CE1	2.45	1.04
6:V:193:ILE:O	6:W:562:TYR:CE1	1.89	1.04
6:V:528:ALA:CB	6:W:283:SER:C	2.30	1.04
4:D:392:ALA:HB3	6:P:49:ARG:HE	1.20	1.04
6:I:36:LEU:CD2	6:J:253:VAL:HG13	1.88	1.04
6:I:279:PRO:O	6:K:622:GLU:CG	2.06	1.04
6:I:297:ALA:HA	6:J:409:ILE:CD1	1.87	1.04
6:I:534:SER:HB3	6:K:165:THR:HG23	1.28	1.04
6:J:169:MET:O	6:K:541:SER:HB3	1.54	1.04
6:J:619:ASP:CB	6:K:284:VAL:HG11	1.86	1.04
6:O:41:LEU:HD13	6:P:239:ALA:HA	1.36	1.04
6:O:298:PHE:CG	6:P:417:PHE:O	2.10	1.04
6:O:459:LEU:HG	6:P:412:ARG:HB2	1.05	1.04
6:O:641:ILE:HG13	6:P:545:VAL:HG13	1.36	1.04
6:P:82:PHE:HZ	6:Q:242:PHE:CE1	1.74	1.04
5:R:193:GLY:HA2	6:W:364:PRO:CG	1.82	1.04
6:U:242:PHE:CG	6:W:36:LEU:HD21	1.93	1.04
6:U:295:ARG:NH2	6:V:354:SER:CB	2.20	1.04
6:U:333:PRO:O	6:V:411:VAL:HG21	1.52	1.04
6:U:471:LEU:HD11	6:W:578:SER:HB3	1.10	1.04
6:U:609:ARG:O	6:W:32:PRO:HG3	1.55	1.04
6:V:121:ALA:HB1	6:W:87:PHE:CG	1.87	1.04
6:V:619:ASP:CG	6:W:284:VAL:HG13	1.80	1.04
6:I:283:SER:HA	6:K:528:ALA:HB1	1.06	1.04
6:I:414:GLN:NE2	6:K:459:LEU:CD2	2.14	1.04
6:I:609:ARG:O	6:K:32:PRO:HG3	1.56	1.04
6:J:457:PRO:HG3	6:K:411:VAL:CG1	1.58	1.04
6:O:619:ASP:HB2	6:P:284:VAL:HG21	1.12	1.04
6:U:161:LYS:HE3	6:V:533:ASP:OD1	1.55	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:279:PRO:O	6:W:622:GLU:CG	2.06	1.04
6:V:457:PRO:HG3	6:W:411:VAL:CG1	1.59	1.04
1:A:152:THR:OG1	3:C:598:PRO:CG	2.06	1.04
2:B:407:ARG:HE	4:D:184:HIS:CE1	1.54	1.04
2:B:645:HIS:CE1	2:B:700:TRP:CE3	2.45	1.04
6:J:42:ASN:OD1	6:K:84:LYS:CE	2.04	1.04
5:M:193:GLY:HA3	6:O:364:PRO:CG	1.86	1.04
6:O:279:PRO:O	6:Q:622:GLU:CG	2.05	1.04
6:O:295:ARG:NH2	6:P:354:SER:CB	2.20	1.04
6:O:533:ASP:OD1	6:Q:161:LYS:HE3	1.56	1.04
6:O:609:ARG:O	6:Q:32:PRO:HG3	1.57	1.04
6:O:612:SER:HB3	6:Q:160:GLN:HG2	1.39	1.04
6:P:42:ASN:ND2	6:Q:235:LEU:HD21	1.71	1.04
6:P:619:ASP:CB	6:Q:284:VAL:HG11	1.87	1.04
5:R:193:GLY:N	6:W:364:PRO:CB	2.19	1.04
5:S:44:GLY:CA	6:U:400:ALA:HB1	1.80	1.04
6:U:247:SER:H	6:W:154:ARG:NH1	1.36	1.04
6:U:412:ARG:NE	6:W:459:LEU:N	1.75	1.04
6:U:414:GLN:NE2	6:W:459:LEU:CD1	2.12	1.04
6:V:29:THR:CA	6:W:609:ARG:HD2	1.84	1.04
2:B:407:ARG:HG2	4:D:184:HIS:CE1	1.91	1.03
3:C:436:LEU:HD11	4:E:187:GLN:NE2	1.72	1.03
3:C:792:GLN:HE22	4:D:346:LEU:HA	1.23	1.03
6:I:242:PHE:CE1	6:K:82:PHE:HZ	1.72	1.03
6:I:456:ASN:OD1	6:J:412:ARG:HB3	1.55	1.03
5:M:44:GLY:CA	6:O:400:ALA:HB1	1.80	1.03
6:O:161:LYS:HE3	6:P:533:ASP:OD1	1.56	1.03
6:O:299:ILE:CD1	6:P:419:MET:HE1	1.83	1.03
6:O:612:SER:C	6:Q:160:GLN:HE21	1.48	1.03
6:O:623:LYS:CE	6:P:270:ASP:OD2	2.06	1.03
6:U:161:LYS:HG2	6:V:533:ASP:OD1	1.54	1.03
6:U:298:PHE:CD2	6:V:418:ASN:CA	2.39	1.03
6:U:298:PHE:CG	6:V:417:PHE:O	2.10	1.03
6:U:623:LYS:CE	6:V:270:ASP:OD2	2.06	1.03
6:V:160:GLN:HG2	6:W:612:SER:HB3	1.39	1.03
6:W:144:ASN:CA	6:W:147:ARG:HE	1.71	1.03
2:B:375:ASN:HD21	3:C:798:VAL:HG23	0.88	1.03
3:C:1064:TRP:CZ3	3:C:1100:LEU:HB3	1.92	1.03
5:G:4:HIS:ND1	6:K:586:VAL:HG22	1.72	1.03
5:G:193:GLY:HA3	6:I:364:PRO:CG	1.88	1.03
6:I:84:LYS:HZ2	6:K:44:THR:HG21	1.20	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:562:TYR:CG	6:K:195:PRO:HD3	1.93	1.03
6:I:630:LEU:HD13	6:J:275:GLU:HG2	1.03	1.03
6:J:161:LYS:HZ1	6:K:533:ASP:HA	0.90	1.03
6:O:44:THR:OG1	6:P:84:LYS:HD3	1.57	1.03
6:O:121:ALA:HB1	6:P:87:PHE:CG	1.92	1.03
6:O:242:PHE:CG	6:Q:36:LEU:HD21	1.93	1.03
6:O:545:VAL:HG21	6:Q:641:ILE:CD1	1.87	1.03
6:O:562:TYR:HB3	6:Q:195:PRO:HG3	1.36	1.03
6:P:295:ARG:HH22	6:Q:354:SER:CB	1.71	1.03
6:P:578:SER:HB3	6:Q:471:LEU:HD11	1.03	1.03
5:R:44:GLY:CA	6:W:400:ALA:CB	2.26	1.03
6:U:193:ILE:O	6:V:562:TYR:CE1	1.95	1.03
6:U:297:ALA:HA	6:V:409:ILE:HD11	1.40	1.03
6:U:456:ASN:OD1	6:V:412:ARG:HB3	1.54	1.03
6:U:545:VAL:HG21	6:W:641:ILE:CD1	1.88	1.03
6:U:609:ARG:CG	6:W:29:THR:HA	1.86	1.03
6:V:195:PRO:HD3	6:W:562:TYR:HB3	1.37	1.03
6:V:578:SER:CB	6:W:471:LEU:CD1	2.32	1.03
2:B:353:GLN:HG2	3:C:1020:ILE:O	1.58	1.03
2:B:409:MET:HE3	2:B:443:PRO:CB	1.89	1.03
2:B:959:ARG:NH2	4:D:40:ARG:CG	2.22	1.03
3:C:404:MET:SD	4:E:175:MET:HB3	1.97	1.03
6:I:195:PRO:HG3	6:J:562:TYR:HB3	1.39	1.03
6:J:82:PHE:HZ	6:K:242:PHE:CE1	1.75	1.03
6:J:630:LEU:CD1	6:K:275:GLU:HG3	1.87	1.03
6:O:33:ALA:CB	6:P:256:SER:HA	1.89	1.03
6:O:456:ASN:ND2	6:P:412:ARG:CG	2.19	1.03
6:O:528:ALA:CB	6:P:283:SER:HA	1.86	1.03
6:P:619:ASP:HB2	6:Q:284:VAL:HG21	1.04	1.03
6:P:622:GLU:HG2	6:Q:280:LEU:HA	1.32	1.03
5:T:194:LEU:HD22	6:V:447:SER:OG	1.59	1.03
6:U:28:SER:HB2	6:V:606:THR:CG2	1.87	1.03
6:U:121:ALA:HB1	6:V:87:PHE:CG	1.92	1.03
6:U:246:THR:HB	6:W:154:ARG:NH1	1.72	1.03
6:U:275:GLU:HG3	6:W:630:LEU:CD1	1.78	1.03
6:U:283:SER:HA	6:W:528:ALA:HB1	1.05	1.03
6:U:298:PHE:CD2	6:V:417:PHE:C	2.31	1.03
6:U:537:SER:OG	6:W:168:THR:OG1	1.69	1.03
6:V:295:ARG:HH22	6:W:354:SER:CB	1.72	1.03
6:V:459:LEU:CG	6:W:414:GLN:OE1	1.93	1.03
2:B:409:MET:CE	2:B:443:PRO:CB	2.37	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:339:LEU:CD2	6:U:55:VAL:HG11	1.87	1.03
6:I:84:LYS:HD3	6:K:44:THR:OG1	1.57	1.03
6:I:242:PHE:CG	6:K:36:LEU:HD21	1.92	1.03
6:I:545:VAL:HG21	6:K:641:ILE:CD1	1.89	1.03
6:I:609:ARG:CG	6:K:29:THR:HA	1.86	1.03
6:J:121:ALA:HB1	6:K:87:PHE:CG	1.88	1.03
6:J:456:ASN:OD1	6:K:412:ARG:HB3	1.59	1.03
6:J:623:LYS:CE	6:K:270:ASP:OD2	2.07	1.03
6:P:66:ASP:HB2	6:Q:232:ALA:HB2	1.05	1.03
6:P:578:SER:CB	6:Q:471:LEU:CD1	2.33	1.03
6:U:165:THR:HA	6:V:537:SER:OG	1.58	1.03
6:U:610:THR:HG22	6:W:30:ALA:HB2	1.05	1.03
6:V:154:ARG:CB	6:W:248:GLU:OE1	1.75	1.03
5:F:193:GLY:HA2	6:K:364:PRO:CG	1.84	1.03
6:I:41:LEU:HD13	6:J:239:ALA:HA	1.37	1.03
5:N:193:GLY:CA	6:P:364:PRO:CB	2.37	1.03
6:P:29:THR:CB	6:Q:609:ARG:HD2	1.87	1.03
6:P:121:ALA:CB	6:Q:87:PHE:CD1	2.24	1.03
6:P:298:PHE:CG	6:Q:418:ASN:N	2.24	1.03
5:R:5:MET:CE	6:V:494:THR:CG2	2.37	1.03
5:S:4:HIS:ND1	6:W:586:VAL:HG22	1.73	1.03
6:U:562:TYR:CG	6:W:195:PRO:HD3	1.93	1.03
6:V:623:LYS:CE	6:W:270:ASP:OD2	2.06	1.03
3:C:938:TYR:OH	3:C:946:VAL:CB	1.88	1.02
4:D:393:ASP:OD1	6:P:52:GLY:O	1.75	1.02
5:H:194:LEU:HD22	6:J:447:SER:OG	1.59	1.02
6:I:34:ILE:O	6:J:256:SER:OG	1.75	1.02
6:I:165:THR:HA	6:J:537:SER:OG	1.58	1.02
5:L:191:LYS:O	6:Q:364:PRO:HB3	1.57	1.02
5:L:193:GLY:CA	6:Q:364:PRO:HG2	1.76	1.02
6:O:29:THR:CB	6:P:609:ARG:HG2	1.89	1.02
6:O:193:ILE:CB	6:P:562:TYR:HE1	1.54	1.02
6:P:147:ARG:NE	6:W:100:LYS:HD2	1.72	1.02
6:U:36:LEU:CD2	6:V:253:VAL:HG13	1.88	1.02
6:U:412:ARG:HB2	6:W:459:LEU:HG	1.19	1.02
6:U:416:ARG:CA	6:W:298:PHE:CZ	2.41	1.02
6:U:533:ASP:OD1	6:W:161:LYS:HE3	1.55	1.02
6:U:562:TYR:HB3	6:W:195:PRO:HG3	1.35	1.02
6:V:121:ALA:CB	6:W:87:PHE:CD1	2.24	1.02
6:V:161:LYS:HE3	6:W:533:ASP:OD1	1.58	1.02
6:V:459:LEU:HG	6:W:412:ARG:NE	1.72	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:353:ARG:HD3	4:D:129:VAL:HG21	1.04	1.02
3:C:713:ASN:CA	3:C:726:ARG:HH12	1.47	1.02
5:H:193:GLY:CA	6:J:364:PRO:CB	2.37	1.02
5:H:193:GLY:HA3	6:J:364:PRO:CB	1.88	1.02
6:I:612:SER:HB3	6:K:160:GLN:HG2	1.41	1.02
6:J:161:LYS:HE3	6:K:533:ASP:OD1	1.56	1.02
6:J:195:PRO:HD3	6:K:562:TYR:HB3	1.37	1.02
5:N:194:LEU:HD22	6:P:447:SER:OG	1.58	1.02
6:O:34:ILE:O	6:P:256:SER:OG	1.76	1.02
6:O:165:THR:HA	6:P:537:SER:OG	1.58	1.02
6:O:562:TYR:CG	6:Q:195:PRO:HD3	1.93	1.02
6:P:44:THR:OG1	6:Q:84:LYS:HD3	1.59	1.02
6:U:87:PHE:CG	6:W:121:ALA:HB1	1.90	1.02
6:U:619:ASP:CG	6:V:284:VAL:HG13	1.83	1.02
6:V:619:ASP:HB2	6:W:284:VAL:HG21	1.03	1.02
6:V:640:GLN:OE1	6:W:545:VAL:HG12	1.58	1.02
3:C:796:ALA:HB1	3:C:799:ASP:OD2	1.58	1.02
5:G:5:MET:SD	6:K:303:ASP:OD1	2.18	1.02
5:G:44:GLY:CA	6:I:400:ALA:HB1	1.81	1.02
6:I:541:SER:HB3	6:K:169:MET:O	1.55	1.02
6:I:610:THR:HG22	6:K:30:ALA:HB2	1.05	1.02
6:I:641:ILE:CG1	6:J:545:VAL:HG13	1.85	1.02
6:J:169:MET:O	6:K:541:SER:CA	2.07	1.02
6:J:333:PRO:CG	6:K:411:VAL:HG13	1.89	1.02
5:L:5:MET:CE	6:P:494:THR:CG2	2.37	1.02
5:N:193:GLY:HA3	6:P:364:PRO:CB	1.89	1.02
6:O:121:ALA:CB	6:P:87:PHE:CD1	2.23	1.02
6:O:297:ALA:HA	6:P:409:ILE:CD1	1.88	1.02
6:U:29:THR:CB	6:V:609:ARG:HG2	1.90	1.02
6:U:44:THR:HB	6:V:84:LYS:NZ	1.51	1.02
6:U:297:ALA:HA	6:V:409:ILE:CD1	1.87	1.02
6:V:28:SER:HB2	6:W:606:THR:HG22	1.37	1.02
6:V:44:THR:OG1	6:W:84:LYS:HD3	1.57	1.02
6:V:82:PHE:HZ	6:W:242:PHE:CE1	1.77	1.02
6:V:165:THR:HG22	6:W:534:SER:CB	1.58	1.02
6:V:459:LEU:CD1	6:W:414:GLN:HE22	1.60	1.02
3:C:386:GLU:CD	3:C:1195:TYR:CZ	2.38	1.02
5:F:5:MET:CE	6:J:494:THR:CG2	2.36	1.02
5:H:4:HIS:HD1	6:I:586:VAL:HG13	1.22	1.02
6:I:298:PHE:CE2	6:J:418:ASN:N	2.18	1.02
6:I:298:PHE:CD2	6:J:418:ASN:CA	2.39	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:417:PHE:O	6:K:298:PHE:CG	2.12	1.02
6:J:154:ARG:CB	6:K:248:GLU:OE1	1.76	1.02
6:J:459:LEU:N	6:K:412:ARG:HE	1.55	1.02
5:M:4:HIS:ND1	6:Q:586:VAL:HG22	1.73	1.02
6:O:283:SER:HA	6:Q:528:ALA:HB1	1.05	1.02
6:O:412:ARG:HE	6:Q:459:LEU:N	1.58	1.02
6:O:562:TYR:HE1	6:Q:193:ILE:CB	1.58	1.02
6:O:623:LYS:HE2	6:P:270:ASP:OD2	1.59	1.02
6:P:144:ASN:HA	6:W:100:LYS:HZ1	1.20	1.02
6:P:169:MET:O	6:Q:541:SER:HB3	1.53	1.02
6:P:333:PRO:CG	6:Q:411:VAL:HG13	1.88	1.02
5:R:194:LEU:HD22	6:W:447:SER:HB2	1.03	1.02
6:U:84:LYS:HD3	6:W:44:THR:OG1	1.57	1.02
6:V:195:PRO:HG3	6:W:562:TYR:HB3	1.41	1.02
6:V:333:PRO:CG	6:W:411:VAL:HG13	1.89	1.02
2:B:379:GLY:CA	3:C:798:VAL:HG11	1.81	1.02
3:C:404:MET:HE3	4:E:175:MET:HB2	1.40	1.02
4:E:400:THR:HG21	6:U:53:THR:HG22	1.06	1.02
6:I:232:ALA:HB1	6:K:66:ASP:HB2	1.14	1.02
6:I:412:ARG:CZ	6:K:459:LEU:CD2	2.36	1.02
6:I:623:LYS:CE	6:J:270:ASP:OD2	2.07	1.02
6:J:29:THR:CB	6:K:609:ARG:HD2	1.87	1.02
6:J:165:THR:HG22	6:K:534:SER:CB	1.59	1.02
6:O:42:ASN:OD1	6:P:84:LYS:HD2	1.56	1.02
6:O:246:THR:HB	6:Q:154:ARG:NH1	1.73	1.02
6:O:417:PHE:O	6:Q:298:PHE:CG	2.13	1.02
6:O:533:ASP:OD1	6:Q:161:LYS:HG2	1.57	1.02
6:O:610:THR:HG22	6:Q:30:ALA:HB2	1.05	1.02
6:P:459:LEU:CG	6:Q:414:GLN:OE1	1.93	1.02
5:S:193:GLY:HA3	6:U:364:PRO:CG	1.88	1.02
5:T:193:GLY:HA3	6:V:364:PRO:CB	1.90	1.02
6:V:154:ARG:NH1	6:W:246:THR:HB	1.75	1.02
2:B:437:ARG:NH1	4:D:173:ALA:HB1	1.71	1.01
4:E:336:ALA:HA	6:U:55:VAL:HB	1.38	1.01
6:I:161:LYS:HE3	6:J:533:ASP:OD1	1.55	1.01
6:I:414:GLN:OE1	6:K:459:LEU:CG	2.02	1.01
6:I:619:ASP:CG	6:J:284:VAL:HG13	1.84	1.01
6:J:295:ARG:HH22	6:K:354:SER:CB	1.72	1.01
5:M:5:MET:SD	6:Q:303:ASP:OD1	2.17	1.01
5:M:194:LEU:CG	6:O:447:SER:OG	2.07	1.01
6:O:578:SER:CB	6:P:471:LEU:CD1	2.37	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:5:MET:SD	6:W:303:ASP:OD1	2.18	1.01
6:V:578:SER:HB3	6:W:471:LEU:HD11	1.02	1.01
3:C:938:TYR:OH	3:C:946:VAL:HG11	1.41	1.01
4:D:390:ASN:N	6:P:54:SER:HA	1.75	1.01
4:D:392:ALA:HB3	6:P:49:ARG:NE	1.72	1.01
4:E:335:ALA:HB1	6:U:56:ALA:N	1.74	1.01
4:E:401:ALA:HA	6:U:52:GLY:HA2	1.35	1.01
6:I:417:PHE:N	6:K:298:PHE:CE2	2.11	1.01
6:J:160:GLN:HG2	6:K:612:SER:HB3	1.39	1.01
6:J:458:THR:CA	6:K:412:ARG:NE	2.08	1.01
6:O:87:PHE:CG	6:Q:121:ALA:HB1	1.90	1.01
6:O:195:PRO:HG3	6:P:562:TYR:HB3	1.39	1.01
6:O:298:PHE:CD2	6:P:418:ASN:CA	2.41	1.01
6:O:456:ASN:OD1	6:P:412:ARG:HB3	1.53	1.01
6:P:160:GLN:HG2	6:Q:612:SER:HB3	1.37	1.01
6:P:623:LYS:CE	6:Q:270:ASP:OD2	2.07	1.01
5:S:194:LEU:CG	6:U:447:SER:OG	2.08	1.01
5:T:194:LEU:CG	6:V:447:SER:OG	2.07	1.01
6:U:33:ALA:CB	6:V:256:SER:HA	1.88	1.01
6:U:87:PHE:CD1	6:W:121:ALA:CB	2.25	1.01
6:U:333:PRO:HG2	6:V:411:VAL:HG13	1.42	1.01
6:V:458:THR:CA	6:W:412:ARG:NE	2.07	1.01
2:B:407:ARG:HG3	4:D:184:HIS:CE1	1.95	1.01
2:B:437:ARG:NE	4:D:173:ALA:HA	1.75	1.01
3:C:714:SER:CA	3:C:726:ARG:HH22	1.66	1.01
4:D:389:PHE:HA	6:P:55:VAL:N	1.48	1.01
4:E:336:ALA:N	6:U:55:VAL:N	2.09	1.01
5:G:4:HIS:CB	6:K:586:VAL:CG2	2.33	1.01
5:G:5:MET:HE2	6:K:494:THR:CB	1.90	1.01
6:I:30:ALA:HB3	6:J:610:THR:HA	1.34	1.01
6:I:121:ALA:HB1	6:J:87:PHE:CG	1.92	1.01
6:I:154:ARG:HH11	6:J:247:SER:N	1.52	1.01
6:I:533:ASP:OD1	6:K:161:LYS:HE3	1.55	1.01
6:J:619:ASP:CG	6:K:284:VAL:HG13	1.79	1.01
6:O:298:PHE:CZ	6:P:417:PHE:O	2.10	1.01
6:O:412:ARG:HB2	6:Q:459:LEU:HG	1.23	1.01
6:O:641:ILE:CG1	6:P:545:VAL:HG13	1.86	1.01
6:P:640:GLN:OE1	6:Q:545:VAL:HG12	1.59	1.01
6:U:34:ILE:O	6:V:256:SER:OG	1.76	1.01
6:U:414:GLN:HE21	6:W:459:LEU:HB3	1.24	1.01
6:U:623:LYS:HE2	6:V:270:ASP:OD2	1.59	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:29:THR:CB	6:W:609:ARG:CG	2.38	1.01
6:V:42:ASN:ND2	6:W:235:LEU:HD21	1.71	1.01
6:V:161:LYS:HD3	6:W:534:SER:OG	1.61	1.01
6:V:169:MET:O	6:W:541:SER:CA	2.09	1.01
2:B:959:ARG:HH22	4:D:40:ARG:HG2	1.24	1.01
3:C:436:LEU:HD22	4:E:43:HIS:CD2	1.94	1.01
3:C:795:ASP:CG	4:D:249:LYS:HD2	1.84	1.01
5:F:194:LEU:HD22	6:K:447:SER:HB2	1.03	1.01
5:G:194:LEU:CG	6:I:447:SER:OG	2.08	1.01
5:H:194:LEU:CG	6:J:447:SER:OG	2.07	1.01
6:I:169:MET:O	6:J:541:SER:HB3	1.61	1.01
6:I:283:SER:C	6:K:528:ALA:HB1	1.86	1.01
6:I:412:ARG:HD2	6:K:457:PRO:C	1.85	1.01
6:I:609:ARG:NE	6:K:29:THR:HA	1.75	1.01
6:J:29:THR:CB	6:K:609:ARG:CG	2.38	1.01
6:J:195:PRO:HG3	6:K:562:TYR:HB3	1.41	1.01
5:N:194:LEU:CG	6:P:447:SER:OG	2.07	1.01
6:O:412:ARG:HD2	6:Q:457:PRO:C	1.86	1.01
6:O:412:ARG:CZ	6:Q:459:LEU:CD2	2.37	1.01
5:R:4:HIS:HE1	6:V:587:GLY:HA3	1.17	1.01
5:R:193:GLY:CA	6:W:364:PRO:HG2	1.75	1.01
5:T:44:GLY:HA3	6:V:400:ALA:HB1	1.04	1.01
6:U:414:GLN:OE1	6:W:459:LEU:CG	2.02	1.01
2:B:380:GLU:O	3:C:798:VAL:HG21	1.58	1.01
2:B:1178:ARG:HD3	4:D:241:LEU:CD2	1.89	1.01
4:E:339:LEU:CD1	6:U:55:VAL:HG11	1.90	1.01
5:G:4:HIS:HE1	6:K:587:GLY:HA3	1.20	1.01
6:I:32:PRO:HG3	6:J:609:ARG:O	1.61	1.01
6:I:42:ASN:HD22	6:J:235:LEU:CD2	1.66	1.01
6:I:232:ALA:HB2	6:K:66:ASP:CB	1.69	1.01
6:I:416:ARG:CA	6:K:298:PHE:CZ	2.43	1.01
6:I:534:SER:HB3	6:K:165:THR:CG2	1.76	1.01
6:I:610:THR:CG2	6:K:30:ALA:N	2.24	1.01
6:J:66:ASP:HB2	6:K:232:ALA:HB2	1.03	1.01
5:N:44:GLY:HA3	6:P:400:ALA:HB1	1.04	1.01
6:O:36:LEU:CD2	6:P:253:VAL:HG13	1.89	1.01
6:O:283:SER:C	6:Q:528:ALA:HB1	1.86	1.01
6:O:333:PRO:HG2	6:P:411:VAL:HG13	1.41	1.01
6:O:541:SER:HB3	6:Q:169:MET:O	1.58	1.01
6:O:610:THR:CG2	6:Q:30:ALA:N	2.24	1.01
6:P:44:THR:HG21	6:Q:84:LYS:HZ2	1.21	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:528:ALA:CB	6:Q:283:SER:C	2.30	1.01
6:P:640:GLN:HE22	6:Q:545:VAL:HG13	1.23	1.01
5:T:193:GLY:CA	6:V:364:PRO:CB	2.38	1.01
6:U:609:ARG:NE	6:W:29:THR:HA	1.75	1.01
6:I:29:THR:HB	6:J:609:ARG:HD2	1.29	1.00
6:I:242:PHE:HZ	6:K:82:PHE:CZ	1.71	1.00
6:I:623:LYS:HE2	6:J:270:ASP:OD2	1.60	1.00
5:M:4:HIS:CB	6:Q:586:VAL:CG2	2.33	1.00
6:O:41:LEU:CD2	6:P:242:PHE:HE2	1.68	1.00
6:O:295:ARG:NH1	6:P:419:MET:CA	2.22	1.00
6:O:416:ARG:CA	6:Q:298:PHE:CZ	2.43	1.00
6:P:29:THR:CB	6:Q:609:ARG:CG	2.39	1.00
6:P:154:ARG:NH1	6:Q:246:THR:HB	1.76	1.00
6:P:169:MET:O	6:Q:541:SER:CA	2.08	1.00
6:U:168:THR:O	6:V:541:SER:OG	1.79	1.00
6:U:195:PRO:HG3	6:V:562:TYR:HB3	1.38	1.00
6:U:630:LEU:HD13	6:V:275:GLU:HG2	1.05	1.00
6:X:587:GLY:O	5:Y:2:PRO:CD	2.08	1.00
2:B:954:PRO:HD3	4:D:39:SER:OG	1.40	1.00
3:C:715:VAL:CG2	3:C:726:ARG:CD	2.38	1.00
5:F:5:MET:HE2	6:J:494:THR:CG2	1.91	1.00
6:I:246:THR:HB	6:K:154:ARG:NH1	1.73	1.00
6:I:298:PHE:CZ	6:J:417:PHE:O	2.14	1.00
6:J:154:ARG:NH1	6:K:246:THR:HB	1.75	1.00
6:J:644:LEU:CD2	6:K:548:LYS:HE3	1.67	1.00
6:O:66:ASP:CB	6:P:232:ALA:HB2	1.68	1.00
6:O:530:ARG:N	6:P:472:ARG:NE	1.91	1.00
6:O:630:LEU:HD13	6:P:275:GLU:HG2	1.04	1.00
6:P:195:PRO:HG3	6:Q:562:TYR:HB3	1.39	1.00
5:S:194:LEU:HD22	6:U:447:SER:OG	1.61	1.00
6:U:84:LYS:CE	6:W:42:ASN:OD1	2.09	1.00
2:B:309:LEU:N	2:B:399:ARG:NH1	1.89	1.00
2:B:1211:ARG:NH2	3:C:611:PRO:HG2	1.76	1.00
3:C:1195:TYR:HB3	3:C:1197:TYR:CE1	1.95	1.00
4:D:183:ALA:O	4:D:187:GLN:CD	2.05	1.00
6:J:298:PHE:CE2	6:K:418:ASN:N	2.14	1.00
6:J:640:GLN:OE1	6:K:545:VAL:HG12	1.58	1.00
6:J:644:LEU:CA	6:K:548:LYS:HE3	1.90	1.00
5:M:194:LEU:HD22	6:O:447:SER:OG	1.61	1.00
6:O:84:LYS:HD3	6:Q:44:THR:OG1	1.57	1.00
6:O:534:SER:HB3	6:Q:165:THR:CG2	1.76	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:147:ARG:NH2	6:W:100:LYS:HD2	1.75	1.00
5:R:44:GLY:O	6:W:400:ALA:HB2	1.62	1.00
5:S:44:GLY:CA	6:U:400:ALA:C	2.20	1.00
6:U:417:PHE:O	6:W:298:PHE:CG	2.13	1.00
6:V:459:LEU:N	6:W:412:ARG:NE	1.76	1.00
2:B:309:LEU:C	2:B:399:ARG:HH12	1.70	1.00
4:D:82:GLY:C	6:I:54:SER:HB3	1.86	1.00
6:I:33:ALA:CB	6:J:256:SER:HA	1.90	1.00
6:P:630:LEU:HD13	6:Q:275:GLU:HG3	1.44	1.00
5:T:4:HIS:CG	6:U:586:VAL:HG21	1.89	1.00
6:V:298:PHE:CE2	6:W:417:PHE:N	2.12	1.00
2:B:309:LEU:C	2:B:399:ARG:HH11	1.53	1.00
3:C:715:VAL:HG22	3:C:726:ARG:NE	1.59	1.00
5:G:4:HIS:ND1	6:K:586:VAL:HG13	1.77	1.00
6:J:29:THR:HA	6:K:609:ARG:CG	1.92	1.00
6:P:644:LEU:CA	6:Q:548:LYS:HE3	1.91	1.00
6:U:412:ARG:CZ	6:W:459:LEU:CD2	2.37	1.00
6:V:298:PHE:HB3	6:W:418:ASN:HA	1.00	1.00
6:V:456:ASN:OD1	6:W:412:ARG:HB3	1.57	1.00
6:V:644:LEU:CA	6:W:548:LYS:HE3	1.90	1.00
3:C:384:MET:CB	3:C:1197:TYR:CZ	2.43	1.00
4:D:14:TYR:OH	6:P:54:SER:O	1.78	1.00
5:G:194:LEU:HD22	6:I:447:SER:OG	1.61	1.00
5:H:44:GLY:HA3	6:J:400:ALA:HB1	1.03	1.00
6:I:84:LYS:CE	6:K:42:ASN:OD1	2.09	1.00
6:O:42:ASN:HD22	6:P:235:LEU:HD23	1.17	1.00
6:U:32:PRO:HG3	6:V:609:ARG:O	1.61	1.00
6:U:283:SER:C	6:W:528:ALA:HB1	1.85	1.00
6:U:295:ARG:NH1	6:V:419:MET:N	2.10	1.00
6:V:333:PRO:O	6:W:411:VAL:HG22	1.48	1.00
2:B:404:MET:HE3	4:D:46:ILE:HD12	1.44	1.00
4:D:389:PHE:O	6:P:55:VAL:CG2	2.08	1.00
6:I:295:ARG:NH1	6:J:419:MET:CA	2.23	1.00
6:I:537:SER:CB	6:K:168:THR:OG1	2.10	1.00
5:L:44:GLY:HA3	6:Q:400:ALA:CA	1.65	1.00
6:U:160:GLN:HE21	6:V:612:SER:C	1.50	1.00
6:U:412:ARG:HD2	6:W:457:PRO:C	1.86	1.00
6:V:300:LYS:HZ3	6:W:418:ASN:CG	1.50	1.00
6:I:84:LYS:HZ2	6:K:44:THR:CG2	1.66	0.99
6:I:300:LYS:NZ	6:J:418:ASN:HD21	1.59	0.99
6:O:459:LEU:CD1	6:P:414:GLN:NE2	2.10	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:4:HIS:HE1	6:W:587:GLY:HA3	1.21	0.99
6:U:44:THR:OG1	6:V:84:LYS:HD3	1.57	0.99
6:U:471:LEU:CD1	6:W:578:SER:CB	2.38	0.99
6:V:29:THR:HA	6:W:609:ARG:CG	1.92	0.99
3:C:436:LEU:HD11	4:E:187:GLN:OE1	1.61	0.99
5:F:44:GLY:HA3	6:K:400:ALA:CA	1.65	0.99
6:I:417:PHE:C	6:K:298:PHE:CD2	2.31	0.99
6:J:640:GLN:HE22	6:K:545:VAL:HG13	1.22	0.99
6:O:300:LYS:HZ1	6:P:418:ASN:CB	1.74	0.99
6:O:472:ARG:NE	6:Q:530:ARG:H	1.60	0.99
6:P:459:LEU:HB2	6:Q:414:GLN:HE22	1.27	0.99
5:T:193:GLY:HA2	6:V:364:PRO:CG	1.92	0.99
6:U:42:ASN:HD22	6:V:235:LEU:CD2	1.65	0.99
6:U:644:LEU:CB	6:V:548:LYS:CD	2.30	0.99
6:V:30:ALA:N	6:W:610:THR:CG2	2.25	0.99
6:V:66:ASP:HB2	6:W:232:ALA:HB2	1.02	0.99
6:I:459:LEU:HD23	6:J:412:ARG:CZ	1.91	0.99
5:N:4:HIS:NE2	6:O:587:GLY:N	2.11	0.99
5:N:193:GLY:HA2	6:P:364:PRO:CG	1.91	0.99
6:O:235:LEU:HD21	6:Q:42:ASN:ND2	1.77	0.99
6:P:300:LYS:HZ1	6:Q:418:ASN:CG	1.54	0.99
6:U:242:PHE:HZ	6:W:82:PHE:CE2	1.80	0.99
6:U:537:SER:OG	6:W:165:THR:HA	1.61	0.99
6:U:610:THR:CG2	6:W:30:ALA:N	2.24	0.99
1:A:353:ARG:CD	4:D:129:VAL:HG21	1.92	0.99
5:H:5:MET:HE2	6:I:494:THR:HG1	1.24	0.99
6:J:161:LYS:HD3	6:K:534:SER:OG	1.61	0.99
5:L:194:LEU:HD22	6:Q:447:SER:HB2	1.02	0.99
6:O:87:PHE:CD1	6:Q:121:ALA:CB	2.25	0.99
6:O:232:ALA:HB1	6:Q:66:ASP:HB2	1.15	0.99
6:O:295:ARG:NH1	6:P:419:MET:N	2.10	0.99
6:O:644:LEU:CB	6:P:548:LYS:CD	2.31	0.99
6:P:641:ILE:CD1	6:Q:545:VAL:HG21	1.93	0.99
6:U:232:ALA:HB2	6:W:66:ASP:CB	1.70	0.99
6:V:193:ILE:CB	6:W:562:TYR:HE1	1.55	0.99
2:B:408:SER:HB3	4:D:191:ARG:HH21	0.87	0.99
2:B:436:LEU:HD13	4:D:175:MET:HG2	1.42	0.99
6:O:534:SER:OG	6:Q:161:LYS:HD3	1.62	0.99
6:O:610:THR:HA	6:Q:30:ALA:HB3	1.44	0.99
6:O:619:ASP:CG	6:P:284:VAL:HG13	1.84	0.99
6:U:235:LEU:HD23	6:W:42:ASN:ND2	1.70	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:530:ARG:N	6:V:472:ARG:NE	1.91	0.99
6:V:459:LEU:HD13	6:W:414:GLN:CG	1.92	0.99
5:G:193:GLY:HA2	6:I:364:PRO:CG	1.92	0.99
6:I:27:THR:O	6:I:28:SER:C	2.05	0.99
6:I:84:LYS:HZ1	6:K:44:THR:CB	1.55	0.99
6:I:297:ALA:HA	6:J:409:ILE:HD11	1.39	0.99
6:I:412:ARG:CB	6:K:459:LEU:HG	1.92	0.99
6:O:32:PRO:HG3	6:P:609:ARG:O	1.61	0.99
6:O:297:ALA:HA	6:P:409:ILE:HD11	1.41	0.99
6:O:471:LEU:CD1	6:Q:578:SER:CB	2.37	0.99
6:U:169:MET:O	6:V:541:SER:HB3	1.60	0.99
6:U:545:VAL:HG13	6:W:641:ILE:CG1	1.93	0.99
6:V:195:PRO:HD3	6:W:562:TYR:CB	1.93	0.99
6:X:494:THR:HG23	5:Y:5:MET:CB	1.87	0.99
2:B:308:ASN:CA	2:B:399:ARG:NH2	2.17	0.99
5:F:194:LEU:CG	6:K:447:SER:OG	2.11	0.99
6:I:412:ARG:HE	6:K:459:LEU:N	1.58	0.99
5:M:193:GLY:HA3	6:O:364:PRO:HB2	1.36	0.99
5:N:4:HIS:HD1	6:O:586:VAL:HG13	1.23	0.99
6:O:154:ARG:HH11	6:P:247:SER:N	1.52	0.99
6:P:29:THR:HA	6:Q:609:ARG:CG	1.91	0.99
6:P:459:LEU:N	6:Q:412:ARG:HE	1.56	0.99
6:P:459:LEU:N	6:Q:412:ARG:NE	1.75	0.99
6:U:459:LEU:HG	6:V:412:ARG:CZ	1.89	0.99
6:U:622:GLU:HG2	6:V:279:PRO:O	1.63	0.99
6:V:530:ARG:CA	6:W:472:ARG:HD2	1.83	0.99
1:A:353:ARG:HD3	4:D:129:VAL:CG2	1.91	0.99
3:C:438:PRO:HG3	4:E:188:THR:HG21	1.44	0.99
4:E:335:ALA:CB	6:U:55:VAL:C	2.36	0.99
5:F:44:GLY:CA	6:K:400:ALA:CB	2.25	0.99
6:I:530:ARG:N	6:J:472:ARG:NE	1.92	0.99
6:O:417:PHE:C	6:Q:298:PHE:CD2	2.32	0.99
6:O:530:ARG:H	6:P:472:ARG:CD	1.72	0.99
6:P:530:ARG:H	6:Q:472:ARG:NE	1.55	0.99
6:U:414:GLN:NE2	6:W:459:LEU:CD2	2.17	0.99
6:V:165:THR:HG22	6:W:534:SER:HA	1.41	0.99
5:F:44:GLY:O	6:K:400:ALA:HB2	1.61	0.99
5:H:4:HIS:CG	6:I:586:VAL:HG21	1.89	0.99
5:H:4:HIS:CB	6:I:586:VAL:CG2	2.36	0.99
6:I:29:THR:CB	6:J:609:ARG:HG2	1.89	0.99
6:I:30:ALA:N	6:J:610:THR:HG22	1.76	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:284:VAL:CG2	6:K:619:ASP:CB	2.40	0.99
6:I:578:SER:CB	6:J:471:LEU:CD1	2.39	0.99
6:J:44:THR:OG1	6:K:84:LYS:HD3	1.58	0.99
5:L:5:MET:HE2	6:P:494:THR:CG2	1.92	0.99
6:O:42:ASN:HD22	6:P:235:LEU:CD2	1.66	0.99
6:P:161:LYS:HD3	6:Q:534:SER:OG	1.61	0.99
6:P:298:PHE:CE2	6:Q:417:PHE:N	2.13	0.99
6:V:300:LYS:HZ1	6:W:418:ASN:CG	1.50	0.99
6:X:494:THR:CG2	5:Y:5:MET:HB2	1.90	0.99
6:I:235:LEU:CD2	6:K:42:ASN:HD21	1.74	0.99
6:J:578:SER:HB3	6:K:471:LEU:HD11	1.02	0.99
6:O:42:ASN:HD21	6:P:235:LEU:CD2	1.75	0.99
6:O:459:LEU:HD23	6:P:412:ARG:CZ	1.91	0.99
6:P:66:ASP:HB2	6:Q:232:ALA:HB1	1.15	0.99
5:R:5:MET:HE2	6:V:494:THR:CG2	1.92	0.99
6:U:412:ARG:CB	6:W:459:LEU:HG	1.93	0.99
6:U:612:SER:HB3	6:W:160:GLN:HG2	1.40	0.99
3:C:376:LEU:N	4:E:195:GLN:OE1	1.92	0.98
6:I:411:VAL:HG13	6:K:333:PRO:CG	1.93	0.98
6:I:459:LEU:HG	6:J:412:ARG:CZ	1.86	0.98
6:J:195:PRO:HD3	6:K:562:TYR:CB	1.93	0.98
5:N:4:HIS:ND1	6:O:586:VAL:HG22	1.78	0.98
5:N:44:GLY:HA3	6:P:400:ALA:CA	1.68	0.98
6:P:161:LYS:HE2	6:Q:533:ASP:CA	1.93	0.98
6:U:27:THR:O	6:U:28:SER:C	2.05	0.98
6:U:121:ALA:CB	6:V:87:PHE:CD1	2.24	0.98
6:U:195:PRO:CD	6:V:562:TYR:CB	2.35	0.98
3:C:386:GLU:CD	3:C:1195:TYR:CE1	2.41	0.98
5:H:4:HIS:NE2	6:I:587:GLY:N	2.11	0.98
6:I:411:VAL:CG1	6:K:457:PRO:HD2	1.83	0.98
6:I:471:LEU:CD1	6:K:578:SER:CB	2.38	0.98
6:I:537:SER:OG	6:K:165:THR:HA	1.63	0.98
6:J:161:LYS:HE2	6:K:533:ASP:CA	1.93	0.98
5:N:4:HIS:CG	6:O:586:VAL:HG21	1.90	0.98
6:O:30:ALA:N	6:P:610:THR:HG22	1.75	0.98
6:O:418:ASN:HD21	6:Q:300:LYS:NZ	1.56	0.98
6:O:459:LEU:HD13	6:P:414:GLN:NE2	1.76	0.98
6:P:459:LEU:HD23	6:Q:412:ARG:HH22	0.99	0.98
4:D:388:PRO:CB	6:P:56:ALA:HB2	1.93	0.98
6:I:195:PRO:CD	6:J:562:TYR:CB	2.36	0.98
6:I:562:TYR:CB	6:K:195:PRO:HG3	1.94	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:298:PHE:CE2	6:K:417:PHE:N	2.12	0.98
5:L:44:GLY:O	6:Q:400:ALA:HB2	1.61	0.98
6:O:161:LYS:HD3	6:P:534:SER:OG	1.64	0.98
6:V:458:THR:HA	6:W:412:ARG:CG	1.93	0.98
4:E:339:LEU:HB3	6:U:55:VAL:CB	1.93	0.98
6:I:144:ASN:CA	6:I:147:ARG:HE	1.75	0.98
6:I:242:PHE:HZ	6:K:82:PHE:CE2	1.80	0.98
6:J:30:ALA:N	6:K:610:THR:CG2	2.27	0.98
6:J:295:ARG:HH12	6:K:419:MET:CA	1.76	0.98
6:J:459:LEU:HD12	6:K:412:ARG:C	1.86	0.98
6:O:242:PHE:HZ	6:Q:82:PHE:CE2	1.80	0.98
6:O:534:SER:H	6:Q:161:LYS:HZ3	1.04	0.98
6:P:82:PHE:CZ	6:Q:242:PHE:HZ	1.71	0.98
6:U:232:ALA:HB2	6:W:66:ASP:HB2	1.00	0.98
6:U:533:ASP:OD1	6:W:161:LYS:HG2	1.60	0.98
6:U:619:ASP:OD2	6:V:284:VAL:HG13	1.64	0.98
6:V:161:LYS:HZ3	6:W:534:SER:H	1.07	0.98
6:V:459:LEU:N	6:W:412:ARG:HE	1.56	0.98
6:V:630:LEU:CD1	6:W:275:GLU:HG3	1.88	0.98
3:C:1064:TRP:HH2	3:C:1100:LEU:HB2	1.28	0.98
6:I:84:LYS:CE	6:K:44:THR:HB	1.70	0.98
6:I:333:PRO:HG2	6:J:411:VAL:HG13	1.42	0.98
6:I:418:ASN:HD21	6:K:300:LYS:CE	1.76	0.98
6:I:534:SER:OG	6:K:161:LYS:HD3	1.62	0.98
5:L:194:LEU:CG	6:Q:447:SER:OG	2.11	0.98
6:O:545:VAL:HG13	6:Q:641:ILE:CG1	1.93	0.98
6:P:30:ALA:N	6:Q:610:THR:CG2	2.25	0.98
6:U:29:THR:CB	6:V:609:ARG:CD	2.27	0.98
2:B:309:LEU:N	2:B:399:ARG:HH12	1.53	0.98
6:I:459:LEU:HG	6:J:412:ARG:HB2	1.03	0.98
6:I:622:GLU:HG2	6:J:279:PRO:O	1.61	0.98
6:I:641:ILE:HG13	6:J:545:VAL:HG13	1.37	0.98
6:O:537:SER:CB	6:Q:168:THR:OG1	2.10	0.98
6:U:545:VAL:CG1	6:W:641:ILE:HG12	1.94	0.98
6:I:84:LYS:HZ1	6:K:44:THR:HB	0.87	0.98
6:I:295:ARG:NH1	6:J:419:MET:N	2.11	0.98
6:I:619:ASP:OD2	6:J:284:VAL:HG13	1.64	0.98
6:J:530:ARG:H	6:K:472:ARG:NE	1.55	0.98
6:O:84:LYS:CE	6:Q:42:ASN:OD1	2.10	0.98
6:O:418:ASN:CB	6:Q:300:LYS:HZ1	1.77	0.98
5:R:194:LEU:CG	6:W:447:SER:OG	2.11	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:X:494:THR:HG21	5:Y:5:MET:HB2	1.40	0.98
6:I:459:LEU:HB3	6:J:414:GLN:HE21	1.28	0.98
6:O:82:PHE:CZ	6:P:242:PHE:HZ	1.71	0.98
6:O:609:ARG:NE	6:Q:29:THR:HA	1.76	0.98
5:S:4:HIS:ND1	6:W:586:VAL:HG13	1.77	0.98
6:U:295:ARG:NH1	6:V:419:MET:CA	2.23	0.98
6:U:411:VAL:HG13	6:W:333:PRO:CG	1.93	0.98
6:U:578:SER:CB	6:V:471:LEU:CD1	2.38	0.98
3:C:436:LEU:CD1	4:E:187:GLN:NE2	2.27	0.98
6:I:42:ASN:ND2	6:J:235:LEU:HD23	1.72	0.98
6:I:168:THR:O	6:J:541:SER:OG	1.80	0.98
6:I:528:ALA:HB1	6:J:283:SER:HA	0.98	0.98
6:J:641:ILE:CD1	6:K:545:VAL:HG21	1.93	0.98
6:O:417:PHE:N	6:Q:298:PHE:CE2	2.10	0.98
6:O:534:SER:H	6:Q:161:LYS:NZ	1.62	0.98
6:P:630:LEU:CD1	6:Q:275:GLU:HG3	1.90	0.98
6:P:641:ILE:HG13	6:Q:545:VAL:HG13	1.44	0.98
6:V:44:THR:CG2	6:W:84:LYS:HZ1	1.71	0.98
2:B:431:THR:HG23	3:C:614:GLN:HE22	1.29	0.98
5:N:4:HIS:CB	6:O:586:VAL:CG2	2.37	0.98
6:U:459:LEU:HD23	6:V:412:ARG:CZ	1.92	0.98
2:B:376:LEU:CD2	3:C:795:ASP:CG	2.37	0.97
6:I:298:PHE:CD2	6:J:417:PHE:C	2.31	0.97
6:J:298:PHE:CZ	6:K:417:PHE:O	2.17	0.97
6:O:168:THR:O	6:P:541:SER:OG	1.80	0.97
6:O:537:SER:OG	6:Q:165:THR:HA	1.63	0.97
6:P:169:MET:C	6:Q:541:SER:CB	2.37	0.97
6:P:298:PHE:CZ	6:Q:417:PHE:O	2.17	0.97
2:B:1181:THR:O	4:D:52:PRO:HG2	1.63	0.97
6:I:42:ASN:OD1	6:J:84:LYS:CE	2.12	0.97
6:I:66:ASP:HB2	6:J:232:ALA:HB2	0.98	0.97
6:O:232:ALA:HB2	6:Q:66:ASP:HB2	0.99	0.97
6:O:411:VAL:HG13	6:Q:333:PRO:CG	1.93	0.97
6:O:606:THR:CG2	6:Q:28:SER:HB2	1.94	0.97
6:P:459:LEU:CD1	6:Q:414:GLN:HE22	1.62	0.97
6:P:459:LEU:HD13	6:Q:414:GLN:CG	1.94	0.97
6:V:295:ARG:HH12	6:W:419:MET:CA	1.77	0.97
2:B:951:PRO:CG	4:D:98:SER:O	2.11	0.97
6:I:619:ASP:CB	6:J:284:VAL:CG2	2.41	0.97
6:I:641:ILE:HG12	6:J:545:VAL:CG1	1.92	0.97
6:O:644:LEU:CB	6:P:548:LYS:HD3	1.91	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:5:MET:HE2	6:W:494:THR:CB	1.90	0.97
5:T:4:HIS:CB	6:U:586:VAL:CG2	2.37	0.97
6:U:66:ASP:CB	6:V:232:ALA:HB2	1.68	0.97
4:E:335:ALA:CB	6:U:56:ALA:CB	2.43	0.97
6:I:87:PHE:CD1	6:K:121:ALA:CB	2.25	0.97
5:M:4:HIS:ND1	6:Q:586:VAL:HG13	1.78	0.97
6:O:562:TYR:CB	6:Q:195:PRO:HG3	1.94	0.97
2:B:353:GLN:CG	3:C:1020:ILE:O	2.11	0.97
4:D:392:ALA:CB	6:P:49:ARG:HE	1.57	0.97
6:I:533:ASP:OD1	6:K:161:LYS:HG2	1.60	0.97
6:I:545:VAL:HG11	6:K:641:ILE:CD1	1.94	0.97
6:J:300:LYS:NZ	6:K:418:ASN:HD21	1.48	0.97
6:O:36:LEU:HD21	6:P:242:PHE:CG	2.00	0.97
6:Q:283:SER:HB3	6:Q:472:ARG:NH2	1.79	0.97
5:T:4:HIS:NE2	6:U:587:GLY:N	2.11	0.97
6:U:154:ARG:NE	6:V:247:SER:C	2.21	0.97
6:U:644:LEU:CB	6:V:548:LYS:HD3	1.91	0.97
6:J:456:ASN:HD21	6:K:412:ARG:CB	1.71	0.97
6:J:457:PRO:HG3	6:K:411:VAL:HG11	1.18	0.97
5:M:193:GLY:HA2	6:O:364:PRO:CG	1.93	0.97
6:U:298:PHE:CZ	6:V:417:PHE:O	2.13	0.97
6:V:44:THR:CB	6:W:84:LYS:HZ1	1.54	0.97
6:I:283:SER:HB2	6:K:528:ALA:HB3	0.98	0.97
6:J:165:THR:HG22	6:K:534:SER:HA	1.39	0.97
5:M:193:GLY:CA	6:O:364:PRO:HG2	1.94	0.97
6:O:528:ALA:HB3	6:P:283:SER:HB2	0.98	0.97
6:O:609:ARG:CD	6:Q:29:THR:CB	2.35	0.97
6:P:295:ARG:HH12	6:Q:419:MET:CA	1.77	0.97
6:V:82:PHE:CZ	6:W:242:PHE:HZ	1.69	0.97
6:V:298:PHE:CZ	6:W:416:ARG:CA	2.47	0.97
6:V:530:ARG:CZ	6:W:482:ASP:CG	2.37	0.97
1:A:377:ARG:NH1	6:I:57:THR:CG2	2.26	0.97
3:C:316:THR:H	3:C:1196:ARG:NH1	1.34	0.97
6:J:530:ARG:CZ	6:K:482:ASP:CG	2.38	0.97
6:O:42:ASN:OD1	6:P:84:LYS:CE	2.12	0.97
6:O:169:MET:O	6:P:541:SER:HB3	1.61	0.97
6:O:418:ASN:HD21	6:Q:300:LYS:CE	1.77	0.97
6:P:298:PHE:CZ	6:Q:416:ARG:CA	2.48	0.97
6:U:610:THR:HA	6:W:30:ALA:HB3	1.44	0.97
6:W:283:SER:HB3	6:W:472:ARG:NH2	1.79	0.97
1:A:377:ARG:CZ	6:I:57:THR:HG22	1.89	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:154:ARG:NH1	6:J:247:SER:H	1.50	0.97
6:I:161:LYS:HZ1	6:J:533:ASP:HA	1.06	0.97
6:I:545:VAL:HG13	6:K:641:ILE:CG1	1.93	0.97
6:P:195:PRO:HD3	6:Q:562:TYR:CB	1.94	0.97
6:P:458:THR:HA	6:Q:412:ARG:CG	1.94	0.97
6:U:30:ALA:N	6:V:610:THR:HG22	1.76	0.97
6:V:459:LEU:CG	6:W:412:ARG:NH2	2.26	0.97
6:O:84:LYS:CE	6:Q:44:THR:HB	1.71	0.97
6:U:42:ASN:OD1	6:V:84:LYS:CE	2.12	0.97
6:U:412:ARG:CA	6:W:459:LEU:HD11	1.95	0.97
6:U:562:TYR:CB	6:W:195:PRO:HG3	1.94	0.97
6:I:29:THR:CA	6:J:609:ARG:CG	2.38	0.96
6:O:242:PHE:HZ	6:Q:82:PHE:CZ	1.72	0.96
6:U:284:VAL:CG1	6:W:619:ASP:CB	2.41	0.96
6:U:418:ASN:HD21	6:W:300:LYS:CE	1.76	0.96
6:U:419:MET:CB	6:W:295:ARG:HH12	1.68	0.96
6:U:534:SER:H	6:W:161:LYS:NZ	1.63	0.96
6:U:537:SER:CB	6:W:168:THR:OG1	2.12	0.96
6:U:545:VAL:HG13	6:W:641:ILE:HG13	1.47	0.96
6:U:619:ASP:CB	6:V:284:VAL:CG2	2.41	0.96
6:V:459:LEU:HD12	6:W:412:ARG:C	1.86	0.96
4:E:339:LEU:HD13	6:U:55:VAL:HG13	1.44	0.96
5:G:193:GLY:CA	6:I:364:PRO:HG2	1.94	0.96
5:G:193:GLY:HA3	6:I:364:PRO:HB2	1.36	0.96
6:J:459:LEU:HD13	6:K:414:GLN:CG	1.93	0.96
6:O:622:GLU:HG2	6:P:279:PRO:O	1.63	0.96
6:P:459:LEU:HD11	6:Q:412:ARG:CA	1.95	0.96
6:U:417:PHE:N	6:W:298:PHE:CE2	2.10	0.96
6:U:419:MET:CA	6:W:295:ARG:HH12	1.78	0.96
6:U:459:LEU:HB2	6:V:414:GLN:HE22	1.29	0.96
6:U:534:SER:OG	6:W:161:LYS:HD3	1.62	0.96
2:B:408:SER:CB	4:D:191:ARG:HH22	1.78	0.96
5:H:4:HIS:ND1	6:I:586:VAL:HG22	1.77	0.96
6:I:100:LYS:HE3	6:Q:144:ASN:HD22	1.30	0.96
6:I:256:SER:OG	6:K:34:ILE:O	1.81	0.96
6:I:256:SER:HA	6:K:33:ALA:CB	1.95	0.96
6:I:545:VAL:CG1	6:K:641:ILE:HG12	1.93	0.96
6:O:412:ARG:CB	6:Q:459:LEU:HG	1.94	0.96
6:P:459:LEU:HD12	6:Q:412:ARG:C	1.86	0.96
5:T:4:HIS:ND1	6:U:586:VAL:HG22	1.79	0.96
6:U:548:LYS:CE	6:W:644:LEU:CG	2.03	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:548:LYS:HZ1	6:W:644:LEU:CD2	1.74	0.96
6:V:161:LYS:HE2	6:W:533:ASP:CA	1.94	0.96
2:B:792:GLN:HE21	4:D:105:ALA:HB1	1.25	0.96
6:O:256:SER:HA	6:Q:33:ALA:CB	1.95	0.96
6:U:412:ARG:CB	6:W:459:LEU:CG	2.43	0.96
4:D:259:PRO:HA	4:D:412:VAL:O	1.65	0.96
6:I:354:SER:CB	6:K:295:ARG:NH2	2.29	0.96
6:J:641:ILE:HG13	6:K:545:VAL:HG13	1.44	0.96
6:O:29:THR:HB	6:P:609:ARG:HD2	1.28	0.96
6:O:528:ALA:HB1	6:P:283:SER:C	1.89	0.96
6:O:545:VAL:HG11	6:Q:641:ILE:CD1	1.94	0.96
6:P:36:LEU:HD11	6:Q:242:PHE:CD1	2.01	0.96
5:R:4:HIS:CE1	6:V:586:VAL:HG22	2.01	0.96
6:U:29:THR:HB	6:V:609:ARG:HD2	1.29	0.96
6:U:235:LEU:HD21	6:W:42:ASN:ND2	1.78	0.96
6:U:253:VAL:HG13	6:W:36:LEU:CD2	1.95	0.96
6:U:528:ALA:HB3	6:V:283:SER:HB2	0.98	0.96
6:V:459:LEU:HB3	6:W:414:GLN:HE21	1.28	0.96
3:C:384:MET:CB	3:C:1197:TYR:CE2	2.48	0.96
4:E:335:ALA:O	6:U:55:VAL:O	1.81	0.96
5:M:5:MET:HE2	6:Q:494:THR:CG2	1.95	0.96
6:O:298:PHE:HZ	6:P:417:PHE:CA	1.42	0.96
6:O:419:MET:HB3	6:Q:295:ARG:HH12	1.14	0.96
6:O:619:ASP:CB	6:P:284:VAL:CG1	2.38	0.96
6:O:641:ILE:HG12	6:P:545:VAL:CG1	1.94	0.96
5:S:193:GLY:CA	6:U:364:PRO:HG2	1.94	0.96
6:U:528:ALA:HB1	6:V:283:SER:C	1.89	0.96
6:U:545:VAL:HG11	6:W:641:ILE:CD1	1.94	0.96
6:V:32:PRO:CG	6:W:609:ARG:O	2.13	0.96
6:V:641:ILE:CD1	6:W:545:VAL:HG21	1.94	0.96
6:J:161:LYS:HG2	6:K:533:ASP:OD1	1.66	0.96
6:J:298:PHE:CZ	6:K:416:ARG:CA	2.49	0.96
6:J:333:PRO:O	6:K:411:VAL:CG1	2.13	0.96
6:K:283:SER:HB3	6:K:472:ARG:NH2	1.80	0.96
5:M:44:GLY:C	6:O:400:ALA:CB	2.39	0.96
6:O:66:ASP:HB2	6:P:232:ALA:HB2	0.99	0.96
6:O:283:SER:HB2	6:Q:528:ALA:HB3	0.97	0.96
6:O:619:ASP:CB	6:P:284:VAL:CG2	2.41	0.96
6:P:161:LYS:CE	6:Q:533:ASP:CB	2.41	0.96
6:P:530:ARG:CZ	6:Q:482:ASP:CG	2.39	0.96
5:S:44:GLY:C	6:U:400:ALA:CB	2.38	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:44:THR:HB	6:V:84:LYS:CE	1.82	0.96
6:U:300:LYS:NZ	6:V:418:ASN:HD21	1.60	0.96
6:V:457:PRO:HD2	6:W:411:VAL:CG1	1.72	0.96
6:V:459:LEU:HG	6:W:412:ARG:HB2	0.98	0.96
6:V:644:LEU:HD22	6:W:548:LYS:CD	1.87	0.96
1:A:379:VAL:HG11	6:I:60:SER:OG	1.63	0.96
2:B:376:LEU:CD1	4:D:249:LYS:HD2	1.94	0.96
2:B:954:PRO:CB	4:D:39:SER:OG	2.13	0.96
6:I:161:LYS:HD3	6:J:534:SER:OG	1.64	0.96
6:J:32:PRO:CG	6:K:609:ARG:O	2.13	0.96
5:M:5:MET:HE2	6:Q:494:THR:CB	1.89	0.96
6:O:154:ARG:NE	6:P:247:SER:C	2.22	0.96
6:O:195:PRO:HG3	6:P:562:TYR:CB	1.96	0.96
6:O:298:PHE:CB	6:P:418:ASN:CA	2.10	0.96
6:O:412:ARG:CB	6:Q:459:LEU:CG	2.44	0.96
6:U:459:LEU:HD13	6:V:414:GLN:NE2	1.76	0.96
2:B:404:MET:HG2	4:D:46:ILE:HD11	1.43	0.96
6:I:41:LEU:CD2	6:J:242:PHE:HE2	1.66	0.96
6:I:242:PHE:CG	6:K:36:LEU:HD11	2.01	0.96
6:J:161:LYS:HZ1	6:K:533:ASP:CA	1.77	0.96
6:J:459:LEU:HB2	6:K:414:GLN:HE22	1.27	0.96
5:M:193:GLY:HA3	6:O:364:PRO:HG2	1.47	0.96
6:O:29:THR:CB	6:P:609:ARG:CD	2.27	0.96
5:S:193:GLY:HA2	6:U:364:PRO:CG	1.93	0.96
6:U:195:PRO:HG3	6:V:562:TYR:CB	1.94	0.96
6:U:295:ARG:NH2	6:V:354:SER:OG	1.99	0.96
2:B:404:MET:CE	4:D:46:ILE:HB	1.95	0.96
5:H:193:GLY:HA2	6:J:364:PRO:CG	1.94	0.96
6:I:36:LEU:HD21	6:J:242:PHE:CG	2.00	0.96
6:I:195:PRO:HG3	6:J:562:TYR:CB	1.96	0.96
6:I:253:VAL:HG13	6:K:36:LEU:CD2	1.96	0.96
6:I:333:PRO:O	6:J:411:VAL:HG22	1.44	0.96
5:N:44:GLY:C	6:P:400:ALA:CB	2.39	0.96
6:O:419:MET:CB	6:Q:295:ARG:HH12	1.70	0.96
6:U:36:LEU:HD21	6:V:242:PHE:CG	2.01	0.96
6:U:36:LEU:HD11	6:V:242:PHE:CG	2.01	0.96
6:U:66:ASP:HB2	6:V:232:ALA:HB2	0.98	0.96
6:U:154:ARG:NH1	6:V:247:SER:H	1.49	0.96
6:U:242:PHE:CG	6:W:36:LEU:HD11	2.01	0.96
6:V:298:PHE:CZ	6:W:417:PHE:O	2.17	0.96
2:B:376:LEU:HD21	3:C:795:ASP:CG	1.91	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:36:LEU:HD11	6:J:242:PHE:CG	2.00	0.95
6:I:610:THR:HA	6:K:30:ALA:HB3	1.45	0.95
6:O:82:PHE:CE2	6:P:242:PHE:CZ	2.52	0.95
6:O:284:VAL:HG13	6:Q:619:ASP:OD2	1.63	0.95
5:T:194:LEU:CD2	6:V:447:SER:OG	2.14	0.95
6:U:235:LEU:CD2	6:W:42:ASN:HD21	1.73	0.95
6:U:256:SER:OG	6:W:34:ILE:O	1.82	0.95
2:B:436:LEU:CD1	4:D:175:MET:CG	2.44	0.95
6:I:459:LEU:CD1	6:J:414:GLN:NE2	2.12	0.95
5:N:44:GLY:CA	6:P:400:ALA:HB1	1.91	0.95
6:O:295:ARG:NH2	6:P:354:SER:OG	1.99	0.95
6:P:456:ASN:HD21	6:Q:412:ARG:CB	1.71	0.95
6:U:417:PHE:C	6:W:298:PHE:CD2	2.31	0.95
6:U:528:ALA:HB1	6:V:283:SER:HA	0.98	0.95
6:U:606:THR:CG2	6:W:28:SER:HB2	1.95	0.95
6:I:235:LEU:HD23	6:K:42:ASN:ND2	1.69	0.95
6:I:548:LYS:HE3	6:K:644:LEU:CD2	1.74	0.95
6:J:165:THR:HG23	6:K:534:SER:HB3	1.33	0.95
6:O:44:THR:HB	6:P:84:LYS:HZ1	1.05	0.95
6:O:298:PHE:HE1	6:P:416:ARG:HB3	1.31	0.95
6:O:411:VAL:HG11	6:Q:457:PRO:HG3	1.26	0.95
5:S:5:MET:HE2	6:W:494:THR:CG2	1.97	0.95
6:U:161:LYS:HD3	6:V:534:SER:OG	1.64	0.95
6:U:545:VAL:HG12	6:W:640:GLN:OE1	1.66	0.95
6:V:44:THR:CG2	6:W:84:LYS:HZ2	1.79	0.95
1:A:1169:LYS:HB2	1:A:1174:VAL:HB	1.48	0.95
6:I:154:ARG:NE	6:J:247:SER:C	2.22	0.95
6:I:295:ARG:NH2	6:J:354:SER:OG	1.98	0.95
6:I:606:THR:CG2	6:K:28:SER:HB2	1.96	0.95
6:J:458:THR:HA	6:K:412:ARG:CG	1.95	0.95
5:N:193:GLY:N	6:P:364:PRO:CB	2.28	0.95
6:O:284:VAL:CG1	6:Q:619:ASP:CB	2.40	0.95
6:O:619:ASP:OD2	6:P:284:VAL:HG13	1.63	0.95
6:U:42:ASN:HD21	6:V:235:LEU:CD2	1.76	0.95
6:V:457:PRO:HG2	6:W:411:VAL:CG1	1.70	0.95
2:B:376:LEU:HD21	3:C:795:ASP:CB	1.96	0.95
5:F:193:GLY:CA	6:K:364:PRO:HG2	1.77	0.95
5:G:5:MET:HE2	6:K:494:THR:CG2	1.96	0.95
6:I:284:VAL:HG13	6:K:619:ASP:OD2	1.65	0.95
6:I:459:LEU:HD13	6:J:414:GLN:NE2	1.79	0.95
6:I:528:ALA:HB1	6:J:283:SER:C	1.90	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:528:ALA:HB3	6:J:283:SER:HB2	0.97	0.95
6:P:147:ARG:HD3	6:W:100:LYS:NZ	1.79	0.95
6:U:161:LYS:O	6:V:534:SER:OG	1.84	0.95
6:V:36:LEU:HD11	6:W:242:PHE:CD1	2.01	0.95
6:V:641:ILE:HG13	6:W:545:VAL:HG13	1.46	0.95
4:E:339:LEU:HB2	6:U:55:VAL:HG12	1.46	0.95
6:J:36:LEU:HD11	6:K:242:PHE:CG	2.02	0.95
6:P:147:ARG:NH1	6:W:100:LYS:CE	2.17	0.95
5:S:193:GLY:HA3	6:U:364:PRO:HG2	1.48	0.95
5:T:193:GLY:N	6:V:364:PRO:CB	2.29	0.95
6:U:256:SER:HA	6:W:33:ALA:CB	1.95	0.95
6:U:284:VAL:HG13	6:W:619:ASP:OD2	1.65	0.95
6:U:459:LEU:HG	6:V:412:ARG:HB2	1.03	0.95
2:B:353:GLN:NE2	3:C:1020:ILE:CD1	2.29	0.95
2:B:397:HIS:O	2:B:400:GLU:CG	2.15	0.95
4:E:336:ALA:HA	6:U:55:VAL:H	1.27	0.95
4:E:400:THR:C	6:U:52:GLY:C	2.34	0.95
6:I:418:ASN:ND2	6:K:300:LYS:CE	2.30	0.95
6:I:419:MET:CA	6:K:295:ARG:HH12	1.78	0.95
6:J:36:LEU:HD11	6:K:242:PHE:CD1	2.01	0.95
6:J:459:LEU:CG	6:K:412:ARG:NH2	2.26	0.95
6:O:170:LEU:HA	6:P:541:SER:HB3	1.49	0.95
6:P:36:LEU:HD11	6:Q:242:PHE:CG	2.02	0.95
6:P:295:ARG:HH12	6:Q:419:MET:CB	1.66	0.95
6:U:472:ARG:HD2	6:W:530:ARG:CA	1.81	0.95
6:V:456:ASN:HD21	6:W:412:ARG:CB	1.71	0.95
6:I:412:ARG:CA	6:K:459:LEU:HD11	1.96	0.95
6:I:412:ARG:O	6:K:459:LEU:HD12	1.66	0.95
6:I:534:SER:H	6:K:161:LYS:NZ	1.63	0.95
6:I:545:VAL:HG12	6:K:640:GLN:OE1	1.66	0.95
6:J:333:PRO:O	6:K:411:VAL:HG22	1.48	0.95
6:O:256:SER:OG	6:Q:34:ILE:O	1.82	0.95
6:O:622:GLU:CG	6:P:280:LEU:HA	1.97	0.95
6:P:161:LYS:HG2	6:Q:533:ASP:OD1	1.66	0.95
6:U:333:PRO:O	6:V:411:VAL:CG1	2.15	0.95
6:U:459:LEU:HD11	6:V:412:ARG:C	1.92	0.95
6:V:195:PRO:HD3	6:W:562:TYR:CG	2.01	0.95
3:C:315:SER:H	3:C:1196:ARG:HD3	1.28	0.95
3:C:381:VAL:CG1	3:C:439:THR:HG21	1.95	0.95
6:I:161:LYS:O	6:J:534:SER:OG	1.84	0.95
6:O:27:THR:O	6:O:28:SER:C	2.06	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:253:VAL:HG13	6:Q:36:LEU:CD2	1.95	0.95
6:O:528:ALA:HB1	6:P:283:SER:HA	0.98	0.95
6:O:644:LEU:HB3	6:P:548:LYS:CD	1.96	0.95
6:P:32:PRO:CG	6:Q:609:ARG:O	2.13	0.95
6:U:84:LYS:CE	6:W:44:THR:HB	1.71	0.95
6:U:284:VAL:CG2	6:W:619:ASP:CB	2.39	0.95
6:U:459:LEU:CB	6:V:412:ARG:NE	2.29	0.95
6:U:472:ARG:NE	6:W:530:ARG:N	1.88	0.95
6:U:528:ALA:CB	6:V:283:SER:HA	1.87	0.95
6:V:459:LEU:HB2	6:W:414:GLN:HE22	1.27	0.95
2:B:376:LEU:C	3:C:797:ALA:CA	2.40	0.95
6:O:459:LEU:CB	6:P:412:ARG:NE	2.30	0.95
6:P:530:ARG:N	6:Q:472:ARG:NE	1.90	0.95
6:U:411:VAL:CG1	6:W:457:PRO:HD2	1.83	0.95
6:U:609:ARG:O	6:W:32:PRO:CG	2.15	0.95
6:I:232:ALA:HB2	6:K:66:ASP:HB2	0.97	0.94
5:M:194:LEU:CD2	6:O:447:SER:OG	2.15	0.94
6:O:66:ASP:HB2	6:P:232:ALA:HB1	1.07	0.94
6:O:195:PRO:CD	6:P:562:TYR:CB	2.35	0.94
6:O:419:MET:CA	6:Q:295:ARG:HH12	1.80	0.94
6:U:619:ASP:CB	6:V:284:VAL:CG1	2.38	0.94
6:V:30:ALA:N	6:W:610:THR:HG22	1.82	0.94
6:V:169:MET:C	6:W:541:SER:CB	2.38	0.94
6:V:456:ASN:ND2	6:W:412:ARG:CD	2.30	0.94
6:W:27:THR:O	6:W:28:SER:C	2.09	0.94
2:B:437:ARG:CZ	4:D:173:ALA:HA	1.97	0.94
4:D:390:ASN:H	6:P:54:SER:CA	1.78	0.94
5:G:44:GLY:C	6:I:400:ALA:CB	2.39	0.94
6:I:298:PHE:HB3	6:J:419:MET:N	1.82	0.94
6:I:644:LEU:CB	6:J:548:LYS:HD3	1.91	0.94
6:O:161:LYS:O	6:P:534:SER:OG	1.83	0.94
6:O:283:SER:C	6:Q:528:ALA:CB	2.40	0.94
6:P:161:LYS:NZ	6:Q:534:SER:H	1.65	0.94
6:P:161:LYS:HZ3	6:Q:534:SER:N	1.64	0.94
5:T:44:GLY:O	6:V:400:ALA:HB2	1.67	0.94
6:U:29:THR:C	6:V:610:THR:CG2	2.40	0.94
6:U:41:LEU:CD2	6:V:242:PHE:HE2	1.67	0.94
6:V:161:LYS:HG2	6:W:533:ASP:OD1	1.65	0.94
2:B:645:HIS:CE1	2:B:700:TRP:CZ3	2.54	0.94
6:I:528:ALA:CB	6:J:283:SER:HA	1.88	0.94
6:I:644:LEU:HB3	6:J:548:LYS:CD	1.95	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:29:THR:C	6:P:610:THR:CG2	2.41	0.94
6:O:545:VAL:HG13	6:Q:640:GLN:HE22	1.32	0.94
6:U:300:LYS:HZ1	6:V:418:ASN:CB	1.79	0.94
6:V:168:THR:HB	6:W:538:ALA:N	1.82	0.94
6:V:333:PRO:O	6:W:411:VAL:CG1	2.15	0.94
4:E:339:LEU:CB	6:U:55:VAL:CB	2.45	0.94
5:G:194:LEU:HD13	6:I:447:SER:OG	1.66	0.94
5:H:5:MET:HE3	6:I:494:THR:HG21	0.94	0.94
6:I:29:THR:CA	6:J:609:ARG:HG2	1.96	0.94
6:I:644:LEU:CB	6:J:548:LYS:CD	2.31	0.94
6:J:456:ASN:ND2	6:K:412:ARG:CD	2.30	0.94
5:N:44:GLY:O	6:P:400:ALA:HB2	1.66	0.94
5:N:194:LEU:CD2	6:P:447:SER:OG	2.13	0.94
6:P:195:PRO:HD3	6:Q:562:TYR:CG	2.02	0.94
6:V:295:ARG:HH12	6:W:419:MET:HB3	1.13	0.94
4:D:393:ASP:OD2	6:P:54:SER:HA	1.65	0.94
5:G:193:GLY:HA3	6:I:364:PRO:HG2	1.48	0.94
6:I:29:THR:HB	6:J:609:ARG:HG3	1.48	0.94
6:I:82:PHE:CE2	6:J:242:PHE:CZ	2.52	0.94
5:L:4:HIS:CE1	6:P:586:VAL:HG22	2.02	0.94
5:N:5:MET:HE2	6:O:494:THR:HG1	1.10	0.94
6:O:242:PHE:CD1	6:Q:36:LEU:HD11	2.02	0.94
6:O:412:ARG:HD2	6:Q:458:THR:HA	1.07	0.94
6:O:412:ARG:O	6:Q:459:LEU:HD12	1.67	0.94
6:O:528:ALA:CB	6:P:283:SER:C	2.41	0.94
6:P:333:PRO:O	6:Q:411:VAL:CG1	2.15	0.94
6:P:459:LEU:CG	6:Q:412:ARG:NH2	2.26	0.94
5:T:44:GLY:C	6:V:400:ALA:CB	2.41	0.94
6:U:283:SER:HB2	6:W:528:ALA:HB3	0.96	0.94
6:U:418:ASN:ND2	6:W:300:LYS:CE	2.30	0.94
2:B:954:PRO:HA	4:D:35:ARG:HH11	1.33	0.94
2:B:954:PRO:CA	4:D:35:ARG:NH1	2.20	0.94
3:C:795:ASP:CG	4:D:251:ASN:OD1	2.10	0.94
4:E:336:ALA:CA	6:U:55:VAL:N	2.30	0.94
6:I:29:THR:C	6:J:610:THR:CG2	2.40	0.94
6:J:36:LEU:HB3	6:K:253:VAL:HG12	0.95	0.94
6:J:530:ARG:N	6:K:472:ARG:NE	1.91	0.94
6:J:627:ARG:HG2	6:K:272:ASP:OD1	1.67	0.94
6:O:235:LEU:CD2	6:Q:42:ASN:HD21	1.73	0.94
6:O:298:PHE:CD2	6:P:417:PHE:C	2.32	0.94
6:P:459:LEU:HG	6:Q:412:ARG:HB2	0.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:4:HIS:NE2	6:V:587:GLY:N	2.15	0.94
6:U:354:SER:CB	6:W:295:ARG:NH2	2.29	0.94
6:X:588:ILE:N	5:Y:2:PRO:CG	2.29	0.94
2:B:429:ASN:ND2	3:C:611:PRO:HG2	1.82	0.94
2:B:952:PRO:CB	4:D:35:ARG:HH21	1.80	0.94
6:I:472:ARG:HD2	6:K:530:ARG:CA	1.81	0.94
6:J:298:PHE:HB3	6:K:418:ASN:HA	1.00	0.94
5:L:193:GLY:HA3	6:Q:364:PRO:HB2	1.39	0.94
6:O:242:PHE:CG	6:Q:36:LEU:HD11	2.01	0.94
6:P:300:LYS:NZ	6:Q:418:ASN:HD21	1.47	0.94
5:S:194:LEU:CD2	6:U:447:SER:OG	2.15	0.94
6:U:609:ARG:CD	6:W:29:THR:CB	2.36	0.94
6:V:295:ARG:NH1	6:W:419:MET:CA	2.31	0.94
4:D:393:ASP:OD2	6:P:54:SER:N	2.01	0.94
5:H:194:LEU:CD2	6:J:447:SER:OG	2.15	0.94
6:I:29:THR:C	6:J:610:THR:HG23	1.92	0.94
6:I:66:ASP:CB	6:J:232:ALA:HB2	1.68	0.94
6:I:459:LEU:HD12	6:J:412:ARG:O	1.68	0.94
6:I:534:SER:H	6:K:161:LYS:HZ3	1.04	0.94
6:I:640:GLN:OE1	6:J:545:VAL:HG12	1.68	0.94
6:J:30:ALA:N	6:K:610:THR:HG22	1.82	0.94
6:J:295:ARG:NH1	6:K:419:MET:CA	2.31	0.94
6:J:459:LEU:HD11	6:K:412:ARG:CA	1.95	0.94
6:K:27:THR:O	6:K:28:SER:C	2.09	0.94
5:M:5:MET:HE1	6:Q:494:THR:OG1	1.68	0.94
5:N:44:GLY:HA2	6:P:400:ALA:O	1.68	0.94
6:O:354:SER:CB	6:Q:295:ARG:NH2	2.30	0.94
6:O:459:LEU:CG	6:P:412:ARG:NH2	2.29	0.94
6:O:459:LEU:HD11	6:P:412:ARG:CA	1.98	0.94
6:O:545:VAL:CG1	6:Q:641:ILE:HG12	1.95	0.94
6:O:609:ARG:O	6:Q:32:PRO:CG	2.16	0.94
6:P:627:ARG:HG2	6:Q:272:ASP:OD1	1.67	0.94
6:U:298:PHE:HB3	6:V:418:ASN:HA	1.02	0.94
6:V:36:LEU:HB3	6:W:253:VAL:HG12	0.94	0.94
6:V:42:ASN:HD21	6:W:235:LEU:CD2	1.76	0.94
6:V:459:LEU:HD11	6:W:412:ARG:CA	1.96	0.94
6:V:627:ARG:HG2	6:W:272:ASP:OD1	1.68	0.94
5:H:193:GLY:N	6:J:364:PRO:CB	2.29	0.94
6:I:272:ASP:OD1	6:K:627:ARG:HG2	1.68	0.94
6:I:295:ARG:HH12	6:J:419:MET:CB	1.67	0.94
6:J:161:LYS:CE	6:K:533:ASP:CB	2.42	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:459:LEU:HD23	6:W:412:ARG:CZ	1.98	0.94
6:V:619:ASP:CB	6:W:284:VAL:CG2	2.40	0.94
4:E:339:LEU:HD22	6:U:55:VAL:HG13	1.46	0.94
6:I:84:LYS:HZ1	6:K:44:THR:CG2	1.71	0.94
6:I:154:ARG:CD	6:J:248:GLU:N	2.31	0.94
6:I:170:LEU:HA	6:J:541:SER:HB3	1.50	0.94
6:I:235:LEU:HD21	6:K:42:ASN:ND2	1.80	0.94
6:I:300:LYS:HZ1	6:J:418:ASN:CB	1.79	0.94
6:I:472:ARG:NE	6:K:530:ARG:N	1.88	0.94
6:J:295:ARG:NH2	6:K:354:SER:CB	2.30	0.94
6:O:161:LYS:NZ	6:P:534:SER:H	1.66	0.94
6:O:275:GLU:HG2	6:Q:630:LEU:HD13	0.95	0.94
6:O:298:PHE:HB3	6:P:419:MET:N	1.82	0.94
6:O:545:VAL:HG12	6:Q:640:GLN:OE1	1.67	0.94
6:P:161:LYS:CE	6:Q:533:ASP:CA	2.46	0.94
6:P:295:ARG:NH2	6:Q:354:SER:CB	2.30	0.94
6:P:333:PRO:O	6:Q:411:VAL:HG22	1.48	0.94
5:S:4:HIS:NE2	6:W:587:GLY:N	2.15	0.94
5:S:194:LEU:HD13	6:U:447:SER:OG	1.68	0.94
6:U:458:THR:HA	6:V:412:ARG:CG	1.97	0.94
6:U:459:LEU:HD11	6:V:412:ARG:CA	1.97	0.94
5:G:4:HIS:NE2	6:K:587:GLY:N	2.15	0.93
6:I:528:ALA:CB	6:J:283:SER:C	2.41	0.93
6:J:300:LYS:HZ3	6:K:418:ASN:CG	1.59	0.93
6:O:36:LEU:HD11	6:P:242:PHE:CG	2.02	0.93
6:U:29:THR:CA	6:V:609:ARG:HG2	1.96	0.93
6:U:29:THR:HB	6:V:609:ARG:HG3	1.47	0.93
6:U:298:PHE:HB3	6:V:419:MET:N	1.82	0.93
6:U:298:PHE:HE1	6:V:416:ARG:HB3	1.33	0.93
6:U:609:ARG:HD2	6:W:29:THR:HB	1.30	0.93
6:U:641:ILE:HG12	6:V:545:VAL:CG1	1.95	0.93
5:G:194:LEU:CD2	6:I:447:SER:OG	2.15	0.93
6:I:459:LEU:CD2	6:J:412:ARG:CZ	2.45	0.93
6:J:161:LYS:CE	6:K:533:ASP:CA	2.46	0.93
6:J:195:PRO:HD3	6:K:562:TYR:CG	2.03	0.93
6:J:459:LEU:HD23	6:K:412:ARG:CZ	1.98	0.93
5:L:4:HIS:NE2	6:P:587:GLY:N	2.16	0.93
5:M:4:HIS:NE2	6:Q:587:GLY:N	2.16	0.93
6:O:29:THR:C	6:P:610:THR:HG23	1.93	0.93
6:O:284:VAL:CG2	6:Q:619:ASP:CB	2.39	0.93
6:O:333:PRO:O	6:P:411:VAL:CG1	2.17	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:30:ALA:N	6:Q:610:THR:HG22	1.82	0.93
6:U:272:ASP:OD1	6:W:627:ARG:HG2	1.68	0.93
6:V:165:THR:HG23	6:W:534:SER:HB3	1.34	0.93
2:B:376:LEU:CD2	3:C:795:ASP:O	2.14	0.93
3:C:383:ALA:O	3:C:1197:TYR:HD2	1.33	0.93
5:H:44:GLY:C	6:J:400:ALA:CB	2.40	0.93
6:I:283:SER:C	6:K:528:ALA:CB	2.42	0.93
6:P:298:PHE:HB3	6:Q:418:ASN:HA	1.00	0.93
6:V:161:LYS:NZ	6:W:534:SER:H	1.66	0.93
6:V:165:THR:CG2	6:W:534:SER:CA	2.28	0.93
6:X:494:THR:CG2	5:Y:5:MET:CB	2.42	0.93
1:A:615:VAL:HG12	1:A:660:GLY:HA2	1.50	0.93
3:C:795:ASP:OD1	4:D:251:ASN:CG	2.11	0.93
6:I:412:ARG:HD2	6:K:458:THR:HA	1.07	0.93
5:L:4:HIS:CG	6:P:586:VAL:HG21	2.01	0.93
6:O:411:VAL:CG1	6:Q:457:PRO:HD2	1.85	0.93
6:O:412:ARG:CG	6:Q:458:THR:HA	1.99	0.93
6:O:458:THR:HA	6:P:412:ARG:CG	1.97	0.93
6:P:36:LEU:HB3	6:Q:253:VAL:HG12	0.94	0.93
6:P:161:LYS:HZ3	6:Q:534:SER:H	1.03	0.93
6:U:528:ALA:CB	6:V:283:SER:C	2.40	0.93
2:B:880:LEU:O	4:D:31:GLY:O	1.86	0.93
3:C:792:GLN:NE2	4:D:346:LEU:HA	1.82	0.93
6:J:298:PHE:CD2	6:K:418:ASN:HA	1.98	0.93
6:J:459:LEU:CD2	6:K:412:ARG:CZ	2.45	0.93
6:O:640:GLN:OE1	6:P:545:VAL:HG12	1.68	0.93
6:U:298:PHE:CD2	6:V:418:ASN:HA	2.03	0.93
6:V:36:LEU:HD11	6:W:242:PHE:CG	2.03	0.93
5:F:4:HIS:CE1	6:J:586:VAL:HG22	2.02	0.93
6:I:609:ARG:O	6:K:32:PRO:CG	2.15	0.93
6:O:29:THR:HB	6:P:609:ARG:HG3	1.49	0.93
6:O:32:PRO:O	6:P:613:LEU:HD22	1.68	0.93
6:O:610:THR:HG22	6:Q:30:ALA:N	1.82	0.93
6:P:147:ARG:CG	6:W:100:LYS:CE	2.46	0.93
6:U:300:LYS:CE	6:V:418:ASN:HD21	1.81	0.93
5:F:193:GLY:HA2	6:K:364:PRO:HG3	1.50	0.93
6:J:161:LYS:NZ	6:K:534:SER:H	1.66	0.93
5:M:4:HIS:CD2	6:Q:586:VAL:HG23	2.04	0.93
6:O:154:ARG:NH1	6:P:247:SER:H	1.49	0.93
6:O:418:ASN:ND2	6:Q:300:LYS:CE	2.30	0.93
6:P:147:ARG:HG2	6:W:100:LYS:CD	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:300:LYS:CE	6:Q:418:ASN:HD21	1.81	0.93
6:U:29:THR:C	6:V:610:THR:HG23	1.92	0.93
6:V:644:LEU:CD2	6:W:548:LYS:HE3	1.66	0.93
2:B:951:PRO:CB	4:D:98:SER:O	2.16	0.93
4:D:389:PHE:C	6:P:55:VAL:HG23	1.94	0.93
6:J:459:LEU:HG	6:K:412:ARG:HB2	0.94	0.93
6:O:418:ASN:CG	6:Q:300:LYS:HZ1	1.56	0.93
5:R:193:GLY:HA3	6:W:364:PRO:HB2	1.37	0.93
2:B:431:THR:HG23	3:C:614:GLN:HE21	1.26	0.93
6:I:414:GLN:NE2	6:K:459:LEU:CD1	2.15	0.93
6:I:533:ASP:HA	6:K:161:LYS:HZ1	1.01	0.93
6:J:630:LEU:HD13	6:K:275:GLU:HG3	1.41	0.93
5:N:5:MET:HE3	6:O:494:THR:HG21	0.93	0.93
6:O:41:LEU:HD22	6:P:242:PHE:CE2	2.03	0.93
6:O:533:ASP:CG	6:Q:161:LYS:HE3	1.93	0.93
6:O:644:LEU:HD23	6:P:548:LYS:NZ	1.84	0.93
6:P:300:LYS:CE	6:Q:418:ASN:ND2	2.32	0.93
6:P:606:THR:HG22	6:P:609:ARG:NH2	1.84	0.93
6:U:412:ARG:CG	6:W:458:THR:HA	1.98	0.93
6:V:459:LEU:CD2	6:W:412:ARG:CZ	2.45	0.93
6:I:472:ARG:NE	6:K:530:ARG:H	1.61	0.93
6:I:610:THR:HG22	6:K:30:ALA:N	1.82	0.93
6:O:30:ALA:HB2	6:P:610:THR:CB	1.99	0.93
6:O:32:PRO:CG	6:P:609:ARG:O	2.17	0.93
6:O:412:ARG:CG	6:Q:456:ASN:HD21	1.82	0.93
6:O:459:LEU:HD11	6:P:412:ARG:C	1.93	0.93
6:U:82:PHE:CE2	6:V:242:PHE:CZ	2.52	0.93
6:U:412:ARG:HE	6:W:459:LEU:N	1.57	0.93
6:U:644:LEU:HB3	6:V:548:LYS:CD	1.96	0.93
6:I:161:LYS:HZ1	6:J:533:ASP:CA	1.80	0.92
6:I:411:VAL:CG1	6:K:457:PRO:HG2	1.68	0.92
6:O:154:ARG:CD	6:P:248:GLU:N	2.32	0.92
6:Q:27:THR:O	6:Q:28:SER:C	2.10	0.92
5:R:193:GLY:HA2	6:W:364:PRO:HG3	1.50	0.92
6:U:168:THR:C	6:V:541:SER:HG	1.77	0.92
6:V:622:GLU:CG	6:W:279:PRO:O	2.17	0.92
6:I:300:LYS:CE	6:J:418:ASN:HD21	1.82	0.92
6:I:541:SER:HA	6:K:169:MET:O	1.67	0.92
6:P:195:PRO:HG3	6:Q:562:TYR:CB	2.00	0.92
6:U:66:ASP:HB2	6:V:232:ALA:HB1	1.09	0.92
6:U:161:LYS:NZ	6:V:534:SER:H	1.67	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:458:THR:HA	6:J:412:ARG:CG	1.99	0.92
6:I:622:GLU:CG	6:J:280:LEU:HA	1.98	0.92
6:J:29:THR:HA	6:K:609:ARG:HG2	1.51	0.92
5:M:194:LEU:HD13	6:O:447:SER:OG	1.68	0.92
6:O:279:PRO:O	6:Q:622:GLU:HG2	1.69	0.92
6:O:459:LEU:CD2	6:P:412:ARG:CZ	2.45	0.92
6:O:541:SER:HA	6:Q:169:MET:O	1.66	0.92
6:O:644:LEU:CD2	6:P:548:LYS:HZ1	1.82	0.92
5:T:4:HIS:HD1	6:U:586:VAL:HG13	1.25	0.92
6:U:298:PHE:HE2	6:V:408:ALA:HA	1.32	0.92
6:U:412:ARG:O	6:W:459:LEU:HD12	1.68	0.92
6:U:622:GLU:CG	6:V:280:LEU:HA	1.98	0.92
1:A:353:ARG:HH21	4:D:129:VAL:HG13	1.33	0.92
2:B:880:LEU:HG	4:D:31:GLY:O	1.08	0.92
4:E:336:ALA:HB2	6:U:54:SER:HA	1.51	0.92
6:I:459:LEU:CG	6:J:412:ARG:NH2	2.30	0.92
6:J:622:GLU:CG	6:K:279:PRO:O	2.17	0.92
6:O:472:ARG:HD2	6:Q:530:ARG:CA	1.80	0.92
6:P:622:GLU:CG	6:Q:279:PRO:O	2.17	0.92
6:U:42:ASN:ND2	6:V:235:LEU:HD23	1.71	0.92
6:V:295:ARG:NH2	6:W:354:SER:CB	2.31	0.92
6:V:530:ARG:N	6:W:472:ARG:NE	1.91	0.92
2:B:686:ARG:O	3:C:595:GLN:OE1	1.86	0.92
6:I:32:PRO:CG	6:J:609:ARG:O	2.17	0.92
6:I:41:LEU:HD22	6:J:242:PHE:CE2	2.04	0.92
6:I:414:GLN:HE21	6:K:459:LEU:HB3	1.23	0.92
6:I:459:LEU:HD11	6:J:412:ARG:C	1.93	0.92
6:J:169:MET:C	6:K:541:SER:CB	2.37	0.92
6:O:300:LYS:CE	6:P:418:ASN:HD21	1.82	0.92
6:O:411:VAL:HG22	6:Q:333:PRO:O	1.52	0.92
6:P:161:LYS:HZ1	6:Q:533:ASP:HA	1.17	0.92
6:P:456:ASN:ND2	6:Q:412:ARG:CD	2.32	0.92
6:P:459:LEU:HD23	6:Q:412:ARG:CZ	1.98	0.92
5:R:4:HIS:CG	6:V:586:VAL:HG21	2.01	0.92
5:T:44:GLY:HA2	6:V:400:ALA:O	1.69	0.92
6:U:295:ARG:HH12	6:V:419:MET:CB	1.67	0.92
6:U:411:VAL:CG1	6:W:457:PRO:HG2	1.69	0.92
6:U:459:LEU:HD12	6:V:412:ARG:O	1.68	0.92
6:V:641:ILE:CG1	6:W:545:VAL:HG13	1.98	0.92
1:A:406:ASN:HD21	6:J:102:GLY:N	1.67	0.92
2:B:434:ILE:CD1	3:C:616:SER:OG	2.17	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:715:VAL:HG23	3:C:726:ARG:HE	1.29	0.92
5:G:194:LEU:CD1	6:I:447:SER:OG	2.18	0.92
6:I:609:ARG:HG2	6:K:29:THR:CB	1.99	0.92
5:L:193:GLY:HA2	6:Q:364:PRO:HG3	1.50	0.92
6:P:295:ARG:NH1	6:Q:419:MET:CA	2.32	0.92
6:U:29:THR:HA	6:V:609:ARG:HG2	1.48	0.92
6:U:32:PRO:CG	6:V:609:ARG:O	2.17	0.92
6:U:82:PHE:CZ	6:V:242:PHE:HZ	1.73	0.92
3:C:210:ILE:HB	3:C:240:VAL:HB	1.51	0.92
5:H:44:GLY:O	6:J:400:ALA:HB2	1.68	0.92
6:J:529:SER:N	6:K:283:SER:HB3	1.85	0.92
6:O:29:THR:CA	6:P:609:ARG:HG2	1.96	0.92
6:O:42:ASN:ND2	6:P:235:LEU:HD23	1.71	0.92
6:P:644:LEU:HD22	6:Q:548:LYS:CD	1.87	0.92
6:U:33:ALA:HB1	6:V:256:SER:HA	1.51	0.92
6:U:41:LEU:HD22	6:V:242:PHE:CE2	2.03	0.92
6:U:640:GLN:OE1	6:V:545:VAL:HG12	1.67	0.92
4:D:390:ASN:HB2	6:P:50:PRO:CG	2.00	0.92
6:I:161:LYS:NZ	6:J:534:SER:H	1.66	0.92
6:I:298:PHE:HZ	6:J:417:PHE:CA	1.42	0.92
6:I:419:MET:N	6:K:298:PHE:HB3	1.85	0.92
6:I:458:THR:C	6:J:412:ARG:CD	2.28	0.92
5:S:4:HIS:CD2	6:W:586:VAL:HG23	2.03	0.92
5:S:4:HIS:HD1	6:W:586:VAL:HG13	1.32	0.92
6:U:412:ARG:NE	6:W:458:THR:CA	2.24	0.92
6:U:530:ARG:H	6:V:472:ARG:CD	1.70	0.92
4:D:82:GLY:HA3	6:I:54:SER:HB3	1.51	0.92
5:G:44:GLY:HA3	6:I:400:ALA:HB1	0.93	0.92
6:O:412:ARG:CA	6:Q:459:LEU:HD11	1.96	0.92
6:P:66:ASP:CB	6:Q:232:ALA:HB2	1.76	0.92
6:U:154:ARG:CD	6:V:248:GLU:N	2.33	0.92
6:U:610:THR:HG22	6:W:30:ALA:N	1.82	0.92
6:U:622:GLU:HG3	6:V:279:PRO:O	1.70	0.92
6:V:300:LYS:CE	6:W:418:ASN:HD21	1.83	0.92
1:A:152:THR:OG1	3:C:598:PRO:CB	2.18	0.92
6:I:42:ASN:HD21	6:J:235:LEU:CD2	1.76	0.92
6:I:284:VAL:CG1	6:K:619:ASP:CB	2.41	0.92
6:I:545:VAL:HG13	6:K:640:GLN:HE22	1.33	0.92
6:J:41:LEU:HD22	6:K:242:PHE:HE2	1.34	0.92
6:O:84:LYS:HZ1	6:Q:44:THR:HB	0.93	0.92
6:O:609:ARG:HG2	6:Q:29:THR:CB	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:5:MET:CE	6:V:494:THR:OG1	2.18	0.92
5:R:44:GLY:HA3	6:W:400:ALA:CA	1.65	0.92
6:U:32:PRO:O	6:V:613:LEU:HD22	1.68	0.92
6:U:409:ILE:CD1	6:W:297:ALA:HA	2.00	0.92
6:V:161:LYS:CE	6:W:533:ASP:CB	2.41	0.92
4:D:393:ASP:OD2	6:P:53:THR:O	1.87	0.91
6:I:168:THR:C	6:J:541:SER:OG	2.13	0.91
6:I:412:ARG:CG	6:K:458:THR:HA	1.99	0.91
6:I:530:ARG:CA	6:J:472:ARG:HD2	1.88	0.91
6:J:295:ARG:HH12	6:K:419:MET:CB	1.66	0.91
6:J:295:ARG:HH12	6:K:419:MET:HB3	1.11	0.91
6:O:272:ASP:OD1	6:Q:627:ARG:HG2	1.69	0.91
6:P:41:LEU:HD22	6:Q:242:PHE:HE2	1.35	0.91
6:U:459:LEU:CG	6:V:412:ARG:NH2	2.30	0.91
6:I:459:LEU:HD11	6:J:412:ARG:CA	1.98	0.91
6:J:41:LEU:HD22	6:K:242:PHE:CE2	2.06	0.91
6:O:298:PHE:HE2	6:P:408:ALA:HA	1.35	0.91
6:O:622:GLU:HG3	6:P:279:PRO:O	1.69	0.91
5:T:5:MET:HE3	6:U:494:THR:HG21	0.93	0.91
6:U:242:PHE:CD1	6:W:36:LEU:HD11	2.05	0.91
6:V:300:LYS:CE	6:W:418:ASN:ND2	2.33	0.91
5:H:44:GLY:CA	6:J:400:ALA:HB1	1.90	0.91
6:J:606:THR:HG22	6:J:609:ARG:NH2	1.84	0.91
6:O:161:LYS:HZ3	6:P:533:ASP:CA	1.83	0.91
6:P:121:ALA:HB2	6:Q:87:PHE:CZ	2.06	0.91
6:P:193:ILE:HG21	6:Q:562:TYR:OH	1.71	0.91
3:C:404:MET:SD	4:E:175:MET:CB	2.57	0.91
4:D:390:ASN:N	6:P:54:SER:CA	2.30	0.91
4:E:339:LEU:HB3	6:U:55:VAL:HG11	1.51	0.91
6:I:160:GLN:HG2	6:J:612:SER:HB3	1.52	0.91
6:I:333:PRO:O	6:J:411:VAL:CG1	2.17	0.91
6:O:33:ALA:HB1	6:P:256:SER:HA	1.52	0.91
6:O:283:SER:HA	6:Q:528:ALA:CB	1.96	0.91
6:O:416:ARG:HB3	6:Q:298:PHE:CE1	2.05	0.91
6:P:298:PHE:CD2	6:Q:418:ASN:HA	1.98	0.91
6:U:161:LYS:HZ3	6:V:533:ASP:CA	1.82	0.91
6:U:165:THR:CG2	6:V:534:SER:HB3	1.76	0.91
6:U:545:VAL:HG13	6:W:640:GLN:HE22	1.32	0.91
5:F:4:HIS:CG	6:J:586:VAL:HG21	2.02	0.91
5:F:44:GLY:O	6:K:400:ALA:CB	2.19	0.91
5:G:4:HIS:CD2	6:K:586:VAL:HG23	2.03	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:H:44:GLY:HA3	6:J:400:ALA:CA	1.68	0.91
6:I:275:GLU:HG2	6:K:630:LEU:HD13	0.94	0.91
6:I:644:LEU:CD2	6:J:548:LYS:HZ2	1.62	0.91
6:O:44:THR:HB	6:P:84:LYS:CE	1.84	0.91
6:O:459:LEU:HD12	6:P:412:ARG:O	1.69	0.91
6:O:459:LEU:HB2	6:P:414:GLN:HE22	1.32	0.91
5:S:194:LEU:HD22	6:U:447:SER:HB2	0.91	0.91
6:U:36:LEU:CB	6:V:253:VAL:CG1	2.29	0.91
6:U:472:ARG:NE	6:W:530:ARG:H	1.60	0.91
6:U:541:SER:HA	6:W:169:MET:O	1.67	0.91
6:V:82:PHE:CE2	6:W:242:PHE:HZ	1.87	0.91
2:B:404:MET:HE3	4:D:46:ILE:CB	2.01	0.91
6:I:412:ARG:C	6:K:459:LEU:HD11	1.93	0.91
6:O:482:ASP:CG	6:Q:530:ARG:CZ	2.44	0.91
6:O:548:LYS:CD	6:Q:644:LEU:HD22	1.91	0.91
6:U:30:ALA:HB2	6:V:610:THR:CB	2.00	0.91
2:B:952:PRO:CA	4:D:35:ARG:HD3	1.99	0.91
3:C:938:TYR:HH	3:C:946:VAL:HB	1.22	0.91
5:G:5:MET:HE1	6:K:494:THR:OG1	1.68	0.91
6:I:279:PRO:O	6:K:622:GLU:HG2	1.68	0.91
6:I:298:PHE:HE2	6:J:408:ALA:HA	1.32	0.91
6:I:417:PHE:O	6:K:298:PHE:CZ	2.23	0.91
6:I:562:TYR:HE1	6:K:193:ILE:CB	1.59	0.91
6:J:300:LYS:CE	6:K:418:ASN:ND2	2.33	0.91
5:L:5:MET:CE	6:P:494:THR:OG1	2.19	0.91
6:O:411:VAL:HG12	6:Q:457:PRO:HD2	0.92	0.91
6:O:530:ARG:CA	6:P:472:ARG:HD2	1.90	0.91
6:P:29:THR:HA	6:Q:609:ARG:HG2	1.52	0.91
6:U:195:PRO:CG	6:V:562:TYR:CB	2.48	0.91
6:U:414:GLN:NE2	6:W:459:LEU:HD13	1.81	0.91
6:U:482:ASP:CG	6:W:530:ARG:CZ	2.44	0.91
6:V:528:ALA:CB	6:W:283:SER:O	2.18	0.91
5:G:193:GLY:N	6:I:364:PRO:CB	2.34	0.91
5:H:44:GLY:HA2	6:J:400:ALA:O	1.69	0.91
6:J:122:THR:HG21	6:K:90:ASN:HB3	0.91	0.91
6:O:417:PHE:O	6:Q:298:PHE:CZ	2.22	0.91
6:P:27:THR:O	6:P:28:SER:C	2.14	0.91
6:P:168:THR:HB	6:Q:538:ALA:N	1.85	0.91
6:U:168:THR:HG1	6:V:537:SER:CB	1.73	0.91
6:U:416:ARG:HB3	6:W:298:PHE:CE1	2.05	0.91
6:U:418:ASN:HD21	6:W:300:LYS:NZ	1.55	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:533:ASP:CA	6:W:161:LYS:HZ1	1.84	0.91
6:U:627:ARG:HG2	6:V:272:ASP:OD1	1.71	0.91
5:F:4:HIS:NE2	6:J:587:GLY:N	2.17	0.91
6:I:609:ARG:HG2	6:K:29:THR:HA	1.53	0.91
6:J:195:PRO:HG3	6:K:562:TYR:CB	2.00	0.91
6:O:195:PRO:CG	6:P:562:TYR:CB	2.49	0.91
6:O:457:PRO:C	6:P:412:ARG:HD2	1.95	0.91
6:O:644:LEU:HD22	6:P:548:LYS:CD	1.90	0.91
6:P:42:ASN:HD21	6:Q:235:LEU:CD2	1.75	0.91
6:U:170:LEU:HA	6:V:541:SER:HB3	1.50	0.91
6:U:619:ASP:HB2	6:V:284:VAL:CB	2.00	0.91
6:V:29:THR:HA	6:W:609:ARG:HG2	1.51	0.91
6:V:161:LYS:CE	6:W:533:ASP:CA	2.47	0.91
1:A:152:THR:HB	3:C:598:PRO:HB3	1.51	0.91
2:B:792:GLN:NE2	4:D:105:ALA:HB1	1.82	0.91
6:I:416:ARG:HB3	6:K:298:PHE:CE1	2.06	0.91
6:I:419:MET:HB3	6:K:295:ARG:HH12	1.13	0.91
6:J:165:THR:CG2	6:K:534:SER:CA	2.26	0.91
5:L:44:GLY:O	6:Q:400:ALA:CB	2.19	0.91
6:O:411:VAL:CG1	6:Q:457:PRO:HG2	1.71	0.91
6:O:459:LEU:HD22	6:P:409:ILE:HG22	1.52	0.91
6:O:609:ARG:HG2	6:Q:29:THR:HA	1.51	0.91
6:U:530:ARG:H	6:V:472:ARG:NE	1.57	0.91
2:B:959:ARG:HH22	4:D:40:ARG:CG	1.81	0.90
4:E:339:LEU:CD2	6:U:55:VAL:HG22	1.95	0.90
6:I:548:LYS:CD	6:K:644:LEU:CB	2.40	0.90
6:J:459:LEU:HD12	6:K:412:ARG:O	1.71	0.90
5:M:194:LEU:CD1	6:O:447:SER:OG	2.19	0.90
6:O:284:VAL:HG22	6:Q:619:ASP:HB2	1.53	0.90
6:O:578:SER:HB3	6:P:471:LEU:HD12	1.51	0.90
5:S:44:GLY:HA3	6:U:400:ALA:HB1	0.92	0.90
6:U:168:THR:C	6:V:541:SER:OG	2.13	0.90
6:U:279:PRO:O	6:W:622:GLU:HG2	1.69	0.90
6:U:419:MET:HB3	6:W:295:ARG:HH12	1.13	0.90
6:U:459:LEU:CD1	6:V:412:ARG:O	2.19	0.90
6:U:548:LYS:CD	6:W:644:LEU:CB	2.40	0.90
6:U:609:ARG:CG	6:W:29:THR:CA	2.47	0.90
6:V:458:THR:HA	6:W:412:ARG:NE	1.79	0.90
3:C:404:MET:CE	4:E:175:MET:CB	2.49	0.90
6:I:36:LEU:HD11	6:J:242:PHE:CD1	2.06	0.90
6:I:459:LEU:HD22	6:J:409:ILE:HG22	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:619:ASP:CB	6:J:284:VAL:CG1	2.38	0.90
6:J:619:ASP:CB	6:K:284:VAL:CG2	2.42	0.90
6:O:29:THR:HA	6:P:609:ARG:HG2	1.51	0.90
6:O:168:THR:C	6:P:541:SER:HG	1.79	0.90
6:P:456:ASN:OD1	6:Q:412:ARG:HA	1.65	0.90
6:P:644:LEU:CD2	6:Q:548:LYS:HE3	1.66	0.90
6:U:419:MET:N	6:W:298:PHE:HB3	1.86	0.90
6:U:530:ARG:CZ	6:V:482:ASP:CG	2.43	0.90
6:U:562:TYR:CB	6:W:195:PRO:CD	2.45	0.90
6:V:44:THR:HG21	6:W:84:LYS:HZ2	1.32	0.90
6:V:459:LEU:HD11	6:W:412:ARG:C	1.96	0.90
2:B:376:LEU:CD2	3:C:795:ASP:C	2.44	0.90
6:I:82:PHE:CZ	6:J:242:PHE:HZ	1.72	0.90
6:I:242:PHE:HE2	6:K:41:LEU:HD22	1.37	0.90
6:I:418:ASN:HA	6:K:298:PHE:HB3	0.90	0.90
6:I:482:ASP:CG	6:K:530:ARG:CZ	2.44	0.90
6:J:42:ASN:HD21	6:K:235:LEU:CD2	1.74	0.90
6:J:459:LEU:HD11	6:K:412:ARG:C	1.97	0.90
6:O:280:LEU:HA	6:Q:622:GLU:CG	2.00	0.90
6:O:530:ARG:CZ	6:P:482:ASP:CG	2.44	0.90
6:P:459:LEU:HA	6:Q:412:ARG:HH11	0.96	0.90
6:U:417:PHE:O	6:W:298:PHE:CZ	2.24	0.90
6:U:457:PRO:C	6:V:412:ARG:HD2	1.95	0.90
6:U:459:LEU:CD2	6:V:412:ARG:CZ	2.46	0.90
6:V:41:LEU:HD22	6:W:242:PHE:HE2	1.35	0.90
2:B:431:THR:CG2	3:C:614:GLN:NE2	2.33	0.90
2:B:437:ARG:HE	4:D:173:ALA:HA	1.28	0.90
3:C:884:PRO:CG	3:C:965:GLU:CD	2.45	0.90
6:I:30:ALA:HB2	6:J:610:THR:CB	2.00	0.90
6:I:242:PHE:CD1	6:K:36:LEU:HD11	2.04	0.90
6:I:248:GLU:H	6:K:154:ARG:NE	1.59	0.90
6:I:457:PRO:C	6:J:412:ARG:HD2	1.96	0.90
6:I:533:ASP:CG	6:K:161:LYS:HE3	1.94	0.90
6:J:161:LYS:HZ3	6:K:534:SER:H	1.20	0.90
6:O:32:PRO:HG3	6:P:609:ARG:C	1.96	0.90
6:O:235:LEU:HD23	6:Q:42:ASN:ND2	1.71	0.90
6:O:412:ARG:C	6:Q:459:LEU:HD11	1.93	0.90
6:P:82:PHE:CE2	6:Q:242:PHE:HZ	1.88	0.90
5:S:193:GLY:N	6:U:364:PRO:CB	2.35	0.90
6:U:242:PHE:CE2	6:W:41:LEU:HD22	2.04	0.90
6:U:283:SER:C	6:W:528:ALA:CB	2.41	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:195:PRO:HG3	6:W:562:TYR:CB	2.01	0.90
6:V:295:ARG:HH12	6:W:419:MET:CB	1.67	0.90
6:V:644:LEU:CD2	6:W:548:LYS:HZ1	1.77	0.90
2:B:1181:THR:CA	4:D:52:PRO:HG3	2.01	0.90
6:I:458:THR:N	6:J:412:ARG:HD3	1.86	0.90
6:O:412:ARG:CB	6:Q:456:ASN:HD21	1.80	0.90
2:B:397:HIS:HA	2:B:400:GLU:CD	1.97	0.90
3:C:715:VAL:N	3:C:726:ARG:HH22	1.54	0.90
4:D:389:PHE:C	4:D:389:PHE:CD1	2.50	0.90
4:D:389:PHE:C	6:P:54:SER:CA	2.42	0.90
4:D:390:ASN:HB2	6:P:50:PRO:HG3	1.54	0.90
6:I:622:GLU:HB3	6:J:280:LEU:HD12	0.91	0.90
6:I:627:ARG:HG2	6:J:272:ASP:OD1	1.70	0.90
6:J:619:ASP:CB	6:K:284:VAL:CG1	2.48	0.90
6:O:418:ASN:HD21	6:Q:300:LYS:HZ3	1.12	0.90
6:O:619:ASP:HB2	6:P:284:VAL:CB	2.01	0.90
6:P:30:ALA:HB3	6:Q:610:THR:HA	1.54	0.90
6:P:528:ALA:CB	6:Q:283:SER:O	2.19	0.90
5:T:192:THR:O	6:V:364:PRO:O	1.88	0.90
6:U:609:ARG:HG2	6:W:29:THR:CB	1.99	0.90
2:B:1182:ASN:N	4:D:52:PRO:HG2	1.58	0.90
2:B:1182:ASN:H	4:D:52:PRO:HB3	1.35	0.90
5:F:193:GLY:HA3	6:K:364:PRO:HB2	1.38	0.90
6:I:609:ARG:C	6:K:32:PRO:HG3	1.96	0.90
6:J:32:PRO:C	6:K:613:LEU:HD21	1.96	0.90
6:J:82:PHE:CE2	6:K:242:PHE:HZ	1.89	0.90
6:J:528:ALA:CB	6:K:283:SER:O	2.19	0.90
6:O:412:ARG:O	6:Q:459:LEU:CD1	2.20	0.90
6:U:333:PRO:O	6:V:411:VAL:HG22	1.45	0.90
4:E:401:ALA:N	6:U:52:GLY:HA3	1.68	0.90
6:O:295:ARG:HH12	6:P:419:MET:CB	1.67	0.90
6:U:36:LEU:HD11	6:V:242:PHE:CD1	2.06	0.90
6:U:412:ARG:HD2	6:W:458:THR:HA	1.08	0.90
6:I:530:ARG:CZ	6:J:482:ASP:CG	2.44	0.90
5:L:44:GLY:C	6:Q:400:ALA:CB	2.45	0.90
5:S:194:LEU:CD1	6:U:447:SER:OG	2.19	0.90
6:U:232:ALA:HB1	6:W:66:ASP:HB2	1.13	0.90
6:U:242:PHE:HZ	6:W:82:PHE:CZ	1.72	0.90
6:U:459:LEU:HD11	6:V:412:ARG:N	1.87	0.90
6:I:42:ASN:ND2	6:J:235:LEU:HD21	1.85	0.90
6:I:121:ALA:CB	6:J:87:PHE:CD1	2.24	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:613:LEU:HD22	6:K:32:PRO:O	1.70	0.90
6:J:168:THR:HB	6:K:538:ALA:N	1.84	0.90
6:O:458:THR:C	6:P:412:ARG:CD	2.30	0.90
6:U:32:PRO:HG3	6:V:609:ARG:C	1.96	0.90
6:U:644:LEU:HD23	6:V:548:LYS:NZ	1.85	0.90
6:V:606:THR:HG22	6:V:609:ARG:NH2	1.84	0.90
4:D:82:GLY:CA	6:I:54:SER:HB3	2.01	0.89
5:G:194:LEU:HD22	6:I:447:SER:HB2	0.91	0.89
6:I:147:ARG:HD2	6:Q:100:LYS:HZ1	1.32	0.89
6:I:247:SER:C	6:K:154:ARG:NE	2.30	0.89
6:I:409:ILE:CD1	6:K:297:ALA:HA	2.01	0.89
6:I:412:ARG:O	6:K:459:LEU:CD1	2.19	0.89
6:J:300:LYS:HZ3	6:K:418:ASN:HD21	0.94	0.89
5:L:5:MET:SD	6:P:303:ASP:OD1	2.30	0.89
5:N:192:THR:O	6:P:364:PRO:O	1.89	0.89
6:O:411:VAL:HG11	6:Q:333:PRO:O	1.70	0.89
5:R:5:MET:SD	6:V:303:ASP:OD1	2.30	0.89
5:R:44:GLY:O	6:W:400:ALA:CB	2.19	0.89
6:U:42:ASN:ND2	6:V:235:LEU:HD21	1.85	0.89
6:U:578:SER:HB3	6:V:471:LEU:HD12	1.52	0.89
6:V:298:PHE:CD2	6:W:418:ASN:HA	1.98	0.89
5:F:5:MET:CE	6:J:494:THR:OG1	2.19	0.89
6:J:42:ASN:ND2	6:K:235:LEU:HD23	1.73	0.89
6:J:300:LYS:CE	6:K:418:ASN:HD21	1.85	0.89
5:M:44:GLY:HA3	6:O:400:ALA:HB1	0.92	0.89
6:O:36:LEU:CB	6:P:253:VAL:CG1	2.29	0.89
6:O:613:LEU:HD22	6:Q:32:PRO:O	1.71	0.89
6:U:154:ARG:HH11	6:V:247:SER:N	1.52	0.89
6:U:275:GLU:HG2	6:W:630:LEU:HD13	0.92	0.89
6:U:459:LEU:HB3	6:V:414:GLN:HE21	1.29	0.89
6:V:27:THR:O	6:V:28:SER:C	2.15	0.89
6:V:619:ASP:HB2	6:W:284:VAL:HG22	1.54	0.89
4:D:183:ALA:C	4:D:187:GLN:OE1	2.16	0.89
6:I:32:PRO:O	6:J:613:LEU:HD22	1.68	0.89
6:I:32:PRO:HG3	6:J:609:ARG:C	1.96	0.89
6:I:242:PHE:CE2	6:K:41:LEU:HD22	2.05	0.89
6:O:242:PHE:CE2	6:Q:41:LEU:HD22	2.05	0.89
6:U:548:LYS:CD	6:W:644:LEU:HB3	2.02	0.89
2:B:353:GLN:NE2	3:C:1020:ILE:HD12	1.86	0.89
2:B:792:GLN:HE21	4:D:105:ALA:HB2	0.72	0.89
5:H:192:THR:O	6:J:364:PRO:O	1.89	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:5:MET:HE2	6:P:494:THR:CB	2.02	0.89
5:M:4:HIS:HD1	6:Q:586:VAL:HG13	1.34	0.89
5:M:194:LEU:HD22	6:O:447:SER:HB2	0.91	0.89
6:O:122:THR:CG2	6:P:90:ASN:CB	2.34	0.89
5:R:4:HIS:HB3	6:V:586:VAL:HG21	1.55	0.89
5:T:4:HIS:CD2	6:U:586:VAL:HG23	2.05	0.89
6:U:121:ALA:HB2	6:V:87:PHE:CD2	1.97	0.89
2:B:376:LEU:HD11	3:C:795:ASP:HB3	1.55	0.89
4:D:389:PHE:H	6:P:55:VAL:H	1.14	0.89
5:G:4:HIS:HD1	6:K:586:VAL:HG13	1.32	0.89
6:I:29:THR:HA	6:J:609:ARG:HG2	1.50	0.89
6:J:528:ALA:C	6:K:283:SER:HB3	1.98	0.89
6:O:42:ASN:ND2	6:P:235:LEU:HD21	1.85	0.89
6:O:168:THR:C	6:P:541:SER:OG	2.14	0.89
6:O:459:LEU:HD11	6:P:412:ARG:N	1.88	0.89
6:P:36:LEU:CD2	6:Q:253:VAL:HG13	2.03	0.89
6:P:530:ARG:CA	6:Q:472:ARG:HD2	1.84	0.89
6:U:280:LEU:HA	6:W:622:GLU:CG	2.02	0.89
6:U:418:ASN:HA	6:W:298:PHE:CD2	2.06	0.89
6:U:548:LYS:HZ1	6:W:644:LEU:HD23	1.37	0.89
2:B:880:LEU:CA	4:D:31:GLY:O	1.86	0.89
2:B:1182:ASN:HA	4:D:52:PRO:CD	2.02	0.89
4:E:336:ALA:HA	6:U:55:VAL:N	1.86	0.89
5:F:5:MET:HE2	6:J:494:THR:CB	2.03	0.89
5:F:5:MET:SD	6:J:303:ASP:OD1	2.29	0.89
6:I:161:LYS:HE3	6:J:533:ASP:CG	1.95	0.89
6:I:411:VAL:HG12	6:K:457:PRO:HD2	0.90	0.89
6:I:459:LEU:CB	6:J:412:ARG:NE	2.29	0.89
6:I:619:ASP:HB2	6:J:284:VAL:CB	2.01	0.89
6:I:625:ARG:CZ	6:J:278:THR:OG1	2.21	0.89
6:P:32:PRO:C	6:Q:613:LEU:HD21	1.97	0.89
6:P:459:LEU:HD11	6:Q:412:ARG:C	1.97	0.89
6:U:160:GLN:HG2	6:V:612:SER:HB3	1.52	0.89
6:U:533:ASP:CG	6:W:161:LYS:HE3	1.93	0.89
6:U:625:ARG:CZ	6:V:278:THR:OG1	2.20	0.89
6:V:121:ALA:HB2	6:W:87:PHE:CZ	2.06	0.89
6:V:154:ARG:NE	6:W:248:GLU:H	1.63	0.89
1:A:152:THR:HB	3:C:598:PRO:HB2	1.45	0.89
3:C:715:VAL:HG22	3:C:726:ARG:CD	2.02	0.89
6:I:280:LEU:HA	6:K:622:GLU:CG	2.03	0.89
6:I:609:ARG:CD	6:K:29:THR:CB	2.36	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:298:PHE:CE1	6:P:416:ARG:HB3	2.07	0.89
6:O:419:MET:N	6:Q:298:PHE:HB3	1.86	0.89
6:P:121:ALA:CB	6:Q:87:PHE:CE2	2.55	0.89
6:P:147:ARG:HH11	6:W:100:LYS:HE3	1.15	0.89
6:P:459:LEU:CD2	6:Q:412:ARG:CZ	2.45	0.89
6:P:641:ILE:CG1	6:Q:545:VAL:HG13	1.98	0.89
6:U:284:VAL:HG22	6:W:619:ASP:HB2	1.53	0.89
4:D:390:ASN:CA	6:P:55:VAL:CG2	2.50	0.89
5:F:44:GLY:C	6:K:400:ALA:CB	2.46	0.89
6:J:641:ILE:CD1	6:K:545:VAL:HG11	2.03	0.89
6:O:36:LEU:HD11	6:P:242:PHE:CD1	2.07	0.89
6:O:247:SER:C	6:Q:154:ARG:NE	2.30	0.89
6:O:248:GLU:N	6:Q:154:ARG:CD	2.36	0.89
6:O:409:ILE:CD1	6:Q:297:ALA:HA	2.01	0.89
6:P:147:ARG:CD	6:W:100:LYS:CE	2.37	0.89
6:U:44:THR:CG2	6:V:84:LYS:HZ1	1.73	0.89
6:U:411:VAL:HG12	6:W:457:PRO:HD2	0.89	0.89
6:U:622:GLU:HB3	6:V:280:LEU:HD12	0.89	0.89
6:V:300:LYS:NZ	6:W:418:ASN:HD21	1.47	0.89
3:C:438:PRO:CG	4:E:188:THR:HG21	2.03	0.89
6:I:412:ARG:CB	6:K:456:ASN:HD21	1.79	0.89
6:J:27:THR:O	6:J:28:SER:C	2.15	0.89
6:O:537:SER:CB	6:Q:168:THR:HG1	1.83	0.89
6:O:625:ARG:CZ	6:P:278:THR:OG1	2.20	0.89
6:P:529:SER:N	6:Q:283:SER:HB3	1.87	0.89
5:R:5:MET:HE2	6:V:494:THR:CB	2.03	0.89
6:U:418:ASN:CA	6:W:298:PHE:CB	2.15	0.89
6:U:541:SER:OG	6:W:168:THR:O	1.89	0.89
6:V:121:ALA:CB	6:W:87:PHE:CE2	2.56	0.89
6:V:619:ASP:OD2	6:W:284:VAL:HG13	1.71	0.89
2:B:1211:ARG:CZ	3:C:611:PRO:HG3	2.03	0.89
5:G:29:ARG:CZ	5:G:34:ASN:HD21	1.86	0.89
5:H:5:MET:HE2	6:I:494:THR:CG2	2.02	0.89
6:I:33:ALA:HB1	6:J:256:SER:HA	1.53	0.89
6:I:36:LEU:CB	6:J:253:VAL:CG1	2.29	0.89
6:I:458:THR:HA	6:J:412:ARG:HD2	0.92	0.89
6:J:457:PRO:HG2	6:K:411:VAL:CG1	1.70	0.89
6:U:300:LYS:CE	6:V:418:ASN:ND2	2.36	0.89
3:C:792:GLN:CD	4:D:225:ARG:HH12	1.80	0.88
6:I:300:LYS:CE	6:J:418:ASN:ND2	2.36	0.88
6:I:622:GLU:HG3	6:J:279:PRO:O	1.70	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:644:LEU:CD2	6:J:548:LYS:HE3	1.81	0.88
6:O:537:SER:OG	6:Q:168:THR:OG1	1.69	0.88
6:U:247:SER:C	6:W:154:ARG:NE	2.30	0.88
6:V:32:PRO:C	6:W:613:LEU:HD21	1.98	0.88
6:V:193:ILE:HG21	6:W:562:TYR:OH	1.68	0.88
6:V:298:PHE:CB	6:W:418:ASN:CA	2.14	0.88
6:V:528:ALA:C	6:W:283:SER:HB3	1.98	0.88
2:B:308:ASN:HA	2:B:399:ARG:HH22	1.32	0.88
2:B:379:GLY:C	3:C:798:VAL:HG13	1.72	0.88
4:D:152:ASP:CG	6:P:53:THR:CG2	2.39	0.88
5:H:194:LEU:HD22	6:J:447:SER:HB2	0.89	0.88
6:I:562:TYR:CB	6:K:195:PRO:CD	2.45	0.88
5:N:29:ARG:CZ	5:N:34:ASN:HD21	1.86	0.88
6:O:90:ASN:HB3	6:Q:122:THR:HG21	0.89	0.88
6:O:161:LYS:HZ3	6:P:533:ASP:HA	1.09	0.88
6:O:419:MET:CA	6:Q:295:ARG:NH1	2.37	0.88
6:O:548:LYS:CD	6:Q:644:LEU:HB3	2.02	0.88
6:P:619:ASP:HB2	6:Q:284:VAL:HG22	1.55	0.88
6:U:459:LEU:HD22	6:V:409:ILE:HG22	1.53	0.88
1:A:399:ARG:HH11	1:A:745:MET:HG2	1.38	0.88
5:H:4:HIS:CD2	6:I:586:VAL:HG23	2.06	0.88
6:I:44:THR:HB	6:J:84:LYS:CE	1.83	0.88
6:I:298:PHE:CZ	6:J:416:ARG:CA	2.56	0.88
6:J:530:ARG:H	6:K:472:ARG:CD	1.71	0.88
6:O:160:GLN:HG2	6:P:612:SER:HB3	1.54	0.88
6:O:298:PHE:HB3	6:P:418:ASN:HA	0.99	0.88
6:O:298:PHE:CD2	6:P:418:ASN:HA	2.06	0.88
6:P:459:LEU:HB3	6:Q:414:GLN:HE21	1.30	0.88
6:P:622:GLU:HG2	6:Q:279:PRO:O	1.72	0.88
6:U:254:GLY:HA2	6:V:267:ALA:HB1	1.55	0.88
6:U:298:PHE:CE1	6:V:416:ARG:HB3	2.07	0.88
6:U:412:ARG:C	6:W:459:LEU:HD11	1.93	0.88
6:U:533:ASP:HA	6:W:161:LYS:HZ1	1.11	0.88
2:B:397:HIS:C	2:B:400:GLU:HG2	1.98	0.88
2:B:956:HIS:CE1	4:D:43:HIS:ND1	2.42	0.88
2:B:1181:THR:C	4:D:52:PRO:HG2	1.69	0.88
6:I:281:PRO:HD3	6:K:622:GLU:CG	2.03	0.88
6:I:548:LYS:CD	6:K:644:LEU:HD22	1.91	0.88
6:J:30:ALA:HB3	6:K:610:THR:HA	1.55	0.88
6:O:562:TYR:CB	6:Q:195:PRO:CD	2.45	0.88
6:P:295:ARG:HH12	6:Q:419:MET:HB3	1.12	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:66:ASP:CB	6:W:232:ALA:HB2	1.75	0.88
3:C:313:LYS:O	3:C:1196:ARG:CG	2.21	0.88
3:C:436:LEU:HB2	4:E:43:HIS:NE2	1.89	0.88
4:E:336:ALA:HB2	6:U:54:SER:CA	2.04	0.88
6:I:459:LEU:HD11	6:J:412:ARG:N	1.87	0.88
6:J:459:LEU:HB3	6:K:414:GLN:HE21	1.30	0.88
6:J:619:ASP:OD2	6:K:284:VAL:HG13	1.72	0.88
5:M:193:GLY:N	6:O:364:PRO:CB	2.35	0.88
6:O:254:GLY:HA2	6:P:267:ALA:HB1	1.56	0.88
6:O:300:LYS:NZ	6:P:418:ASN:HD21	1.60	0.88
6:O:533:ASP:HA	6:Q:161:LYS:HZ1	1.02	0.88
6:P:28:SER:HB2	6:Q:606:THR:CG2	2.04	0.88
6:P:33:ALA:CB	6:Q:256:SER:HA	2.04	0.88
6:P:528:ALA:C	6:Q:283:SER:HB3	1.98	0.88
6:P:641:ILE:CD1	6:Q:545:VAL:HG11	2.02	0.88
6:U:411:VAL:HG11	6:W:457:PRO:HG3	1.26	0.88
6:U:412:ARG:CD	6:W:456:ASN:ND2	2.37	0.88
6:V:630:LEU:HD13	6:W:275:GLU:HG2	0.88	0.88
6:V:641:ILE:CD1	6:W:545:VAL:HG11	2.03	0.88
2:B:376:LEU:HD21	3:C:795:ASP:O	1.70	0.88
2:B:774:LEU:O	2:B:774:LEU:CD1	2.22	0.88
6:I:283:SER:HB3	6:I:472:ARG:NH2	1.89	0.88
6:I:419:MET:N	6:K:295:ARG:NH1	2.22	0.88
6:I:610:THR:CG2	6:K:29:THR:C	2.47	0.88
6:I:640:GLN:HE22	6:J:545:VAL:HG13	1.38	0.88
6:J:33:ALA:CB	6:K:256:SER:HA	2.04	0.88
6:J:530:ARG:CA	6:K:472:ARG:HD2	1.84	0.88
6:J:578:SER:HB3	6:K:471:LEU:HD12	1.56	0.88
6:J:644:LEU:HB3	6:K:548:LYS:CD	2.04	0.88
6:O:298:PHE:HZ	6:P:417:PHE:N	1.37	0.88
6:O:609:ARG:C	6:Q:32:PRO:HG3	1.98	0.88
6:P:458:THR:HA	6:Q:412:ARG:HD2	1.08	0.88
6:P:459:LEU:HD12	6:Q:412:ARG:O	1.72	0.88
6:P:619:ASP:OD2	6:Q:284:VAL:HG13	1.72	0.88
6:U:298:PHE:CE2	6:V:408:ALA:HA	2.08	0.88
6:U:609:ARG:HG2	6:W:29:THR:HA	1.52	0.88
6:V:36:LEU:CD2	6:W:253:VAL:HG13	2.02	0.88
3:C:713:ASN:HA	3:C:726:ARG:HH11	1.11	0.88
3:C:938:TYR:OH	3:C:946:VAL:HB	1.42	0.88
4:E:400:THR:O	6:U:52:GLY:O	1.91	0.88
5:G:88:LYS:HA	5:G:126:VAL:HA	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:248:GLU:N	6:K:154:ARG:CD	2.36	0.88
6:I:411:VAL:HG11	6:K:333:PRO:O	1.73	0.88
6:J:193:ILE:HG21	6:K:562:TYR:OH	1.70	0.88
6:O:459:LEU:CB	6:P:412:ARG:HE	1.87	0.88
6:O:545:VAL:HG12	6:Q:640:GLN:HE22	1.18	0.88
6:O:640:GLN:HE22	6:P:545:VAL:HG13	1.36	0.88
6:P:34:ILE:O	6:Q:256:SER:OG	1.90	0.88
5:S:35:PHE:CE2	5:S:71:CYS:HA	2.09	0.88
6:U:161:LYS:HZ3	6:V:533:ASP:HA	1.10	0.88
6:U:169:MET:C	6:V:541:SER:HB3	1.98	0.88
6:U:412:ARG:O	6:W:459:LEU:CD1	2.21	0.88
6:U:530:ARG:CA	6:V:472:ARG:HD2	1.89	0.88
2:B:437:ARG:NE	4:D:173:ALA:O	2.07	0.88
3:C:316:THR:H	3:C:1196:ARG:HH12	1.21	0.88
4:D:390:ASN:CG	6:P:50:PRO:CG	2.42	0.88
6:I:168:THR:HG1	6:J:537:SER:HG	1.20	0.88
6:I:298:PHE:CE1	6:J:416:ARG:HB3	2.08	0.88
6:I:459:LEU:CD1	6:J:412:ARG:O	2.19	0.88
6:O:281:PRO:HD3	6:Q:622:GLU:CG	2.02	0.88
6:P:29:THR:HA	6:Q:609:ARG:NE	1.87	0.88
5:S:29:ARG:CZ	5:S:34:ASN:HD21	1.86	0.88
5:T:44:GLY:HA3	6:V:400:ALA:CA	1.67	0.88
6:U:248:GLU:N	6:W:154:ARG:CD	2.35	0.88
6:U:283:SER:HB3	6:U:472:ARG:NH2	1.89	0.88
6:U:458:THR:C	6:V:412:ARG:CD	2.30	0.88
6:U:562:TYR:CZ	6:W:193:ILE:C	2.52	0.88
6:U:609:ARG:HG3	6:W:29:THR:HB	1.56	0.88
6:V:34:ILE:O	6:W:256:SER:OG	1.90	0.88
6:V:459:LEU:HD12	6:W:412:ARG:O	1.71	0.88
2:B:437:ARG:HH11	4:D:173:ALA:HA	1.38	0.88
4:D:389:PHE:HB2	6:P:54:SER:HA	1.56	0.88
5:F:4:HIS:HB3	6:J:586:VAL:HG21	1.54	0.88
6:J:29:THR:HA	6:K:609:ARG:NE	1.89	0.88
6:O:300:LYS:CE	6:P:418:ASN:ND2	2.36	0.88
5:R:44:GLY:C	6:W:400:ALA:CB	2.45	0.88
6:U:41:LEU:HD21	6:V:242:PHE:CD2	2.09	0.88
6:I:412:ARG:CD	6:K:456:ASN:ND2	2.37	0.88
6:I:418:ASN:HD21	6:K:300:LYS:NZ	1.56	0.88
6:J:121:ALA:HB2	6:K:87:PHE:CZ	2.07	0.88
6:O:275:GLU:CB	6:Q:630:LEU:HD13	2.04	0.88
6:U:459:LEU:CB	6:V:412:ARG:HE	1.87	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:613:LEU:HD22	6:W:32:PRO:O	1.71	0.88
2:B:1182:ASN:HB2	4:D:52:PRO:HB2	0.88	0.87
5:F:29:ARG:CZ	5:F:34:ASN:HD21	1.87	0.87
6:I:144:ASN:HA	6:I:147:ARG:HE	1.37	0.87
6:I:354:SER:OG	6:K:295:ARG:NH2	2.07	0.87
6:I:562:TYR:CZ	6:K:193:ILE:C	2.53	0.87
6:I:613:LEU:HD21	6:K:32:PRO:C	1.99	0.87
6:I:644:LEU:CD2	6:J:548:LYS:HZ1	1.86	0.87
6:O:295:ARG:HH12	6:P:419:MET:HB3	1.21	0.87
6:O:459:LEU:HB3	6:P:414:GLN:HE21	1.28	0.87
6:O:530:ARG:HA	6:P:472:ARG:CG	2.03	0.87
6:U:295:ARG:HH12	6:V:419:MET:HB3	1.20	0.87
6:I:418:ASN:CB	6:K:300:LYS:HZ1	1.85	0.87
6:J:154:ARG:CD	6:K:248:GLU:N	2.37	0.87
6:O:627:ARG:HG2	6:P:272:ASP:OD1	1.72	0.87
6:P:619:ASP:CB	6:Q:284:VAL:CG1	2.49	0.87
5:S:5:MET:HE1	6:W:494:THR:OG1	1.69	0.87
5:T:29:ARG:CZ	5:T:34:ASN:HD21	1.88	0.87
6:U:609:ARG:HG2	6:W:29:THR:CA	2.03	0.87
5:H:29:ARG:CZ	5:H:34:ASN:HD21	1.87	0.87
6:I:144:ASN:HA	6:I:147:ARG:NE	1.89	0.87
6:I:298:PHE:CD2	6:J:418:ASN:HA	2.04	0.87
6:I:459:LEU:CB	6:J:412:ARG:HE	1.86	0.87
6:I:534:SER:OG	6:K:161:LYS:O	1.91	0.87
6:I:541:SER:OG	6:K:168:THR:O	1.91	0.87
6:J:44:THR:OG1	6:K:84:LYS:HE3	1.58	0.87
6:J:641:ILE:CG1	6:K:545:VAL:HG13	1.98	0.87
6:O:242:PHE:CD2	6:Q:41:LEU:HD21	2.10	0.87
6:O:541:SER:OG	6:Q:168:THR:O	1.91	0.87
6:P:42:ASN:ND2	6:Q:235:LEU:HD23	1.73	0.87
5:T:2:PRO:HG2	6:U:587:GLY:CA	2.03	0.87
6:U:411:VAL:HG11	6:W:333:PRO:O	1.72	0.87
6:V:122:THR:HG21	6:W:90:ASN:HB3	0.89	0.87
6:V:530:ARG:H	6:W:472:ARG:CD	1.71	0.87
6:I:284:VAL:HG22	6:K:619:ASP:HB2	1.54	0.87
6:I:578:SER:HB3	6:J:471:LEU:HD12	1.53	0.87
6:J:622:GLU:HG2	6:K:279:PRO:O	1.73	0.87
6:O:562:TYR:CZ	6:Q:193:ILE:C	2.53	0.87
5:T:88:LYS:HA	5:T:126:VAL:HA	1.55	0.87
6:U:242:PHE:CD2	6:W:41:LEU:HD21	2.09	0.87
6:U:418:ASN:HA	6:W:298:PHE:HB3	0.92	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:609:ARG:C	6:W:32:PRO:HG3	1.98	0.87
6:U:644:LEU:HD22	6:V:548:LYS:CD	1.92	0.87
6:V:622:GLU:HG2	6:W:279:PRO:O	1.72	0.87
1:A:248:LEU:HD21	2:B:627:ASN:ND2	1.89	0.87
2:B:376:LEU:CD1	4:D:249:LYS:HE3	1.98	0.87
2:B:376:LEU:CG	4:D:249:LYS:HE3	2.05	0.87
2:B:959:ARG:NH2	4:D:40:ARG:HA	1.89	0.87
3:C:714:SER:N	3:C:726:ARG:HH22	1.67	0.87
4:E:400:THR:CB	6:U:53:THR:N	2.37	0.87
6:I:419:MET:CA	6:K:295:ARG:NH1	2.36	0.87
6:I:530:ARG:HA	6:J:472:ARG:CG	2.04	0.87
6:I:530:ARG:H	6:J:472:ARG:NE	1.58	0.87
6:I:609:ARG:HG2	6:K:29:THR:CA	2.04	0.87
6:I:644:LEU:HD23	6:J:548:LYS:NZ	1.87	0.87
6:J:32:PRO:O	6:K:613:LEU:HD22	1.74	0.87
6:J:44:THR:HB	6:K:84:LYS:HZ1	0.93	0.87
6:O:284:VAL:HG21	6:Q:619:ASP:CA	2.05	0.87
6:O:630:LEU:HD13	6:P:275:GLU:CB	2.05	0.87
6:V:29:THR:HA	6:W:609:ARG:NE	1.89	0.87
5:H:4:HIS:ND1	6:I:586:VAL:CG1	2.37	0.87
6:I:412:ARG:HH11	6:K:459:LEU:HA	1.01	0.87
6:J:165:THR:HA	6:K:537:SER:OG	1.74	0.87
6:J:630:LEU:HD13	6:K:275:GLU:HG2	0.89	0.87
6:J:644:LEU:CD2	6:K:548:LYS:HZ1	1.88	0.87
5:L:29:ARG:CZ	5:L:34:ASN:HD21	1.87	0.87
5:M:101:TYR:HB2	5:M:118:THR:HA	1.57	0.87
6:P:144:ASN:O	6:W:100:LYS:HE2	1.75	0.87
6:U:122:THR:CG2	6:V:90:ASN:CB	2.34	0.87
6:U:298:PHE:HZ	6:V:417:PHE:CA	1.40	0.87
6:U:412:ARG:NH2	6:W:459:LEU:CG	2.32	0.87
6:U:459:LEU:N	6:V:412:ARG:HE	1.72	0.87
5:Y:29:ARG:CZ	5:Y:34:ASN:HD21	1.87	0.87
2:B:436:LEU:CD1	4:D:175:MET:HG2	2.05	0.87
6:I:242:PHE:CD2	6:K:41:LEU:HD21	2.09	0.87
6:I:275:GLU:CB	6:K:630:LEU:HD13	2.04	0.87
6:J:121:ALA:CB	6:K:87:PHE:CE2	2.57	0.87
6:U:242:PHE:CZ	6:W:82:PHE:CE2	2.60	0.87
6:V:33:ALA:CB	6:W:256:SER:HA	2.04	0.87
6:I:168:THR:HG1	6:J:537:SER:CB	1.76	0.87
6:I:530:ARG:H	6:J:472:ARG:CD	1.71	0.87
6:O:87:PHE:CD2	6:Q:121:ALA:HB2	1.97	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:418:ASN:HA	6:Q:298:PHE:HB3	0.90	0.87
6:O:458:THR:N	6:P:412:ARG:HD3	1.86	0.87
6:O:548:LYS:HD3	6:Q:644:LEU:CB	2.01	0.87
5:R:4:HIS:CE1	6:V:586:VAL:C	2.53	0.87
6:U:281:PRO:HD3	6:W:622:GLU:CG	2.03	0.87
6:U:419:MET:CA	6:W:295:ARG:NH1	2.37	0.87
6:U:456:ASN:HD21	6:V:412:ARG:N	1.72	0.87
6:U:548:LYS:CD	6:W:644:LEU:HD22	1.91	0.87
6:V:161:LYS:HZ1	6:W:533:ASP:CA	1.87	0.87
6:V:530:ARG:NH2	6:W:482:ASP:CG	2.32	0.87
3:C:795:ASP:CB	4:D:251:ASN:OD1	2.23	0.87
5:F:101:TYR:HB2	5:F:118:THR:HA	1.56	0.87
6:I:298:PHE:HE1	6:J:416:ARG:HB3	1.38	0.87
6:I:541:SER:HG	6:K:168:THR:C	1.80	0.87
5:L:131:ARG:HE	6:Q:448:PRO:HG2	1.40	0.87
6:O:283:SER:HB3	6:O:472:ARG:NH2	1.90	0.87
6:O:419:MET:N	6:Q:295:ARG:NH1	2.23	0.87
6:O:609:ARG:HG2	6:Q:29:THR:CA	2.04	0.87
6:O:610:THR:CG2	6:Q:29:THR:C	2.47	0.87
6:O:622:GLU:HB3	6:P:280:LEU:HD12	0.90	0.87
6:O:641:ILE:HD11	6:P:545:VAL:CG2	2.05	0.87
5:T:35:PHE:CE2	5:T:71:CYS:HA	2.10	0.87
6:U:154:ARG:NH1	6:V:247:SER:CA	2.33	0.87
6:U:354:SER:OG	6:W:295:ARG:NH2	2.08	0.87
6:V:28:SER:HB2	6:W:606:THR:CG2	2.04	0.87
2:B:437:ARG:CZ	4:D:173:ALA:CA	2.51	0.86
3:C:377:ILE:HG23	3:C:381:VAL:C	2.00	0.86
6:I:87:PHE:CD2	6:K:121:ALA:HB2	1.97	0.86
6:I:298:PHE:CE2	6:J:408:ALA:HA	2.08	0.86
6:J:530:ARG:NH2	6:K:482:ASP:CG	2.33	0.86
5:M:29:ARG:CZ	5:M:34:ASN:HD21	1.87	0.86
5:N:194:LEU:HD22	6:P:447:SER:HB2	0.88	0.86
6:P:154:ARG:NE	6:Q:248:GLU:H	1.64	0.86
6:P:333:PRO:HG2	6:Q:411:VAL:CG1	2.05	0.86
5:R:29:ARG:CZ	5:R:34:ASN:HD21	1.87	0.86
5:S:101:TYR:HB2	5:S:118:THR:HA	1.57	0.86
5:T:194:LEU:HD22	6:V:447:SER:HB2	0.87	0.86
6:U:610:THR:CG2	6:W:29:THR:C	2.48	0.86
6:V:121:ALA:HB2	6:W:87:PHE:CD2	1.97	0.86
2:B:959:ARG:NH1	4:D:40:ARG:CG	2.38	0.86
4:E:332:PRO:HB3	6:U:53:THR:HB	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:H:88:LYS:HA	5:H:126:VAL:HA	1.57	0.86
6:I:284:VAL:HG21	6:K:619:ASP:CA	2.05	0.86
6:J:34:ILE:O	6:K:256:SER:OG	1.90	0.86
6:O:459:LEU:N	6:P:412:ARG:HE	1.73	0.86
6:O:613:LEU:HD21	6:Q:32:PRO:C	1.99	0.86
6:P:630:LEU:HD13	6:Q:275:GLU:HG2	0.88	0.86
6:U:248:GLU:H	6:W:154:ARG:NE	1.60	0.86
6:U:253:VAL:CG1	6:W:36:LEU:CB	2.36	0.86
6:U:530:ARG:HA	6:V:472:ARG:CG	2.04	0.86
6:V:459:LEU:HD22	6:W:409:ILE:HG22	1.57	0.86
6:W:144:ASN:HA	6:W:147:ARG:NE	1.89	0.86
6:I:412:ARG:NE	6:K:458:THR:CA	2.24	0.86
6:J:154:ARG:HB2	6:K:248:GLU:OE1	1.24	0.86
5:L:4:HIS:HB3	6:P:586:VAL:HG21	1.56	0.86
5:N:2:PRO:HG2	6:O:587:GLY:CA	2.04	0.86
5:N:101:TYR:HB2	5:N:118:THR:HA	1.57	0.86
6:O:154:ARG:NH1	6:P:247:SER:CA	2.32	0.86
6:O:232:ALA:HB2	6:Q:66:ASP:CB	1.70	0.86
6:O:409:ILE:HD11	6:Q:297:ALA:HA	1.56	0.86
6:O:418:ASN:CA	6:Q:298:PHE:CB	2.15	0.86
6:O:619:ASP:HB2	6:P:284:VAL:CG1	2.05	0.86
6:V:529:SER:N	6:W:283:SER:HB3	1.88	0.86
5:F:35:PHE:CE2	5:F:71:CYS:HA	2.11	0.86
5:F:88:LYS:HA	5:F:126:VAL:HA	1.56	0.86
6:I:419:MET:CB	6:K:295:ARG:HH12	1.68	0.86
6:I:548:LYS:HZ1	6:K:644:LEU:CD2	1.86	0.86
5:L:101:TYR:HB2	5:L:118:THR:HA	1.57	0.86
6:O:354:SER:OG	6:Q:295:ARG:NH2	2.08	0.86
6:O:412:ARG:CD	6:Q:456:ASN:ND2	2.37	0.86
6:O:610:THR:HG23	6:Q:29:THR:C	2.00	0.86
6:P:530:ARG:NH2	6:Q:482:ASP:CG	2.33	0.86
6:U:284:VAL:HG21	6:W:619:ASP:CA	2.05	0.86
6:U:534:SER:OG	6:W:161:LYS:O	1.92	0.86
6:U:640:GLN:HE22	6:V:545:VAL:HG13	1.38	0.86
6:V:457:PRO:HG3	6:W:411:VAL:HG11	1.17	0.86
6:I:41:LEU:HD21	6:J:242:PHE:CD2	2.09	0.86
6:I:283:SER:HA	6:K:528:ALA:CB	1.96	0.86
6:I:472:ARG:CD	6:K:530:ARG:H	1.80	0.86
5:N:4:HIS:ND1	6:O:586:VAL:CG1	2.38	0.86
6:O:41:LEU:HD21	6:P:242:PHE:CD2	2.09	0.86
6:O:169:MET:C	6:P:541:SER:HB3	1.97	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:459:LEU:CD1	6:P:412:ARG:O	2.20	0.86
6:O:471:LEU:HD12	6:Q:578:SER:HB3	1.56	0.86
6:O:530:ARG:H	6:P:472:ARG:NE	1.58	0.86
6:P:530:ARG:H	6:Q:472:ARG:CD	1.71	0.86
6:P:578:SER:HB3	6:Q:471:LEU:HD12	1.56	0.86
5:R:35:PHE:CE2	5:R:71:CYS:HA	2.10	0.86
6:U:298:PHE:CZ	6:V:416:ARG:CA	2.58	0.86
6:U:412:ARG:CG	6:W:456:ASN:HD21	1.82	0.86
2:B:376:LEU:HD21	3:C:795:ASP:OD1	1.71	0.86
6:I:30:ALA:N	6:J:610:THR:HG23	1.89	0.86
6:I:90:ASN:HB3	6:K:122:THR:HG21	0.89	0.86
6:I:253:VAL:HG12	6:K:36:LEU:HB3	0.86	0.86
6:I:472:ARG:CG	6:K:530:ARG:HA	2.05	0.86
6:J:28:SER:HB2	6:K:606:THR:CG2	2.03	0.86
6:J:32:PRO:HG3	6:K:609:ARG:C	2.00	0.86
6:J:168:THR:C	6:K:541:SER:HG	1.81	0.86
6:J:333:PRO:HG2	6:K:411:VAL:CG1	2.06	0.86
6:O:412:ARG:CD	6:Q:458:THR:C	2.37	0.86
6:O:418:ASN:HA	6:Q:298:PHE:CD2	2.08	0.86
6:P:122:THR:HG21	6:Q:90:ASN:HB3	0.90	0.86
5:R:101:TYR:HB2	5:R:118:THR:HA	1.57	0.86
6:U:30:ALA:N	6:V:610:THR:HG23	1.90	0.86
6:U:297:ALA:CA	6:V:409:ILE:HD11	2.05	0.86
6:U:458:THR:N	6:V:412:ARG:HD3	1.88	0.86
6:V:459:LEU:HD23	6:W:412:ARG:HH22	0.98	0.86
6:V:619:ASP:CB	6:W:284:VAL:CG1	2.48	0.86
2:B:959:ARG:CZ	4:D:40:ARG:CG	2.48	0.86
4:D:389:PHE:CA	6:P:54:SER:HA	2.05	0.86
6:I:409:ILE:HD11	6:K:297:ALA:HA	1.57	0.86
6:I:414:GLN:NE2	6:K:459:LEU:HD22	1.84	0.86
6:I:610:THR:HG23	6:K:29:THR:C	2.00	0.86
6:J:36:LEU:CD2	6:K:253:VAL:HG13	2.03	0.86
6:O:606:THR:HG22	6:O:609:ARG:NH2	1.91	0.86
6:O:644:LEU:HB3	6:P:548:LYS:HD3	1.55	0.86
5:T:4:HIS:ND1	6:U:586:VAL:CG1	2.38	0.86
6:V:29:THR:C	6:W:610:THR:CG2	2.49	0.86
6:V:644:LEU:HB3	6:W:548:LYS:CD	2.05	0.86
2:B:880:LEU:O	4:D:31:GLY:C	2.18	0.86
5:F:131:ARG:HE	6:K:448:PRO:HG2	1.41	0.86
6:I:459:LEU:HD11	6:J:412:ARG:H	1.41	0.86
6:O:32:PRO:C	6:P:613:LEU:HD21	2.01	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:41:LEU:HD22	6:P:242:PHE:HE2	1.39	0.86
6:O:295:ARG:HH11	6:P:419:MET:N	1.73	0.86
6:P:32:PRO:HG3	6:Q:609:ARG:C	2.00	0.86
5:Y:88:LYS:HA	5:Y:126:VAL:HA	1.57	0.86
4:D:390:ASN:CB	6:P:50:PRO:HG3	2.01	0.86
5:F:192:THR:O	6:K:364:PRO:O	1.93	0.86
6:I:295:ARG:HH11	6:J:419:MET:N	1.74	0.86
6:I:533:ASP:CA	6:K:161:LYS:NZ	2.38	0.86
6:I:538:ALA:N	6:K:168:THR:HB	1.90	0.86
6:U:606:THR:HG22	6:U:609:ARG:NH2	1.91	0.86
6:U:613:LEU:HD21	6:W:32:PRO:C	1.99	0.86
6:V:32:PRO:HG3	6:W:609:ARG:C	2.00	0.86
4:D:389:PHE:HA	6:P:54:SER:CB	1.71	0.86
5:L:192:THR:O	6:Q:364:PRO:O	1.92	0.86
6:O:458:THR:HA	6:P:412:ARG:HD2	0.93	0.86
6:P:300:LYS:HZ3	6:Q:418:ASN:HD21	0.89	0.86
6:U:275:GLU:CB	6:W:630:LEU:HD13	2.05	0.86
6:U:610:THR:HG23	6:W:29:THR:C	2.01	0.86
2:B:792:GLN:HG3	4:D:105:ALA:CB	2.04	0.85
6:J:619:ASP:HB2	6:K:284:VAL:HG22	1.56	0.85
5:L:88:LYS:HA	5:L:126:VAL:HA	1.57	0.85
6:U:412:ARG:HH11	6:W:459:LEU:HA	1.02	0.85
6:V:121:ALA:HB3	6:W:87:PHE:CE2	2.11	0.85
6:V:300:LYS:HZ3	6:W:418:ASN:HD21	0.90	0.85
4:D:389:PHE:O	6:P:55:VAL:HG23	1.75	0.85
5:G:35:PHE:CE2	5:G:71:CYS:HA	2.10	0.85
6:I:297:ALA:CA	6:J:409:ILE:HD11	2.05	0.85
6:I:414:GLN:CG	6:K:459:LEU:HD13	2.05	0.85
6:I:630:LEU:HD13	6:J:275:GLU:CB	2.05	0.85
5:L:35:PHE:CE2	5:L:71:CYS:HA	2.11	0.85
5:N:88:LYS:HA	5:N:126:VAL:HA	1.57	0.85
5:N:193:GLY:HA3	6:P:364:PRO:HB2	1.53	0.85
6:O:412:ARG:NE	6:Q:458:THR:CA	2.24	0.85
6:O:625:ARG:NE	6:P:278:THR:OG1	2.10	0.85
6:P:121:ALA:HB3	6:Q:87:PHE:CE2	2.11	0.85
5:R:192:THR:O	6:W:364:PRO:O	1.94	0.85
5:T:101:TYR:HB2	5:T:118:THR:HA	1.57	0.85
6:U:409:ILE:HD11	6:W:297:ALA:HA	1.57	0.85
6:U:619:ASP:HB2	6:V:284:VAL:CG1	2.04	0.85
6:U:641:ILE:HD11	6:V:545:VAL:CG2	2.06	0.85
6:V:578:SER:HB3	6:W:471:LEU:HD13	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:101:TYR:HB2	5:Y:118:THR:HA	1.57	0.85
6:I:154:ARG:NE	6:J:248:GLU:H	1.58	0.85
6:I:254:GLY:HA2	6:J:267:ALA:HB1	1.56	0.85
6:I:471:LEU:HD12	6:K:578:SER:HB3	1.58	0.85
6:I:545:VAL:HG13	6:K:641:ILE:HG13	1.48	0.85
6:I:609:ARG:HG3	6:K:29:THR:HB	1.57	0.85
5:M:44:GLY:HA2	6:O:400:ALA:HA	0.88	0.85
6:O:472:ARG:CG	6:Q:530:ARG:HA	2.05	0.85
6:O:534:SER:OG	6:Q:161:LYS:O	1.92	0.85
6:O:541:SER:HG	6:Q:168:THR:C	1.84	0.85
6:O:609:ARG:HG3	6:Q:29:THR:HB	1.59	0.85
6:P:29:THR:C	6:Q:610:THR:CG2	2.49	0.85
6:P:32:PRO:O	6:Q:613:LEU:HD22	1.76	0.85
6:P:165:THR:HA	6:Q:537:SER:OG	1.75	0.85
6:U:412:ARG:CB	6:W:456:ASN:HD21	1.79	0.85
6:U:471:LEU:HD12	6:W:578:SER:HB3	1.59	0.85
2:B:404:MET:CB	4:D:46:ILE:HD13	2.06	0.85
3:C:381:VAL:HG12	3:C:439:THR:CG2	2.05	0.85
6:J:459:LEU:HA	6:K:412:ARG:HH11	0.96	0.85
5:M:35:PHE:CE2	5:M:71:CYS:HA	2.10	0.85
6:O:622:GLU:CG	6:P:281:PRO:HD3	2.07	0.85
5:R:88:LYS:HA	5:R:126:VAL:HA	1.56	0.85
5:R:131:ARG:HE	6:W:448:PRO:HG2	1.41	0.85
6:U:87:PHE:CD2	6:W:121:ALA:HB2	1.97	0.85
6:U:161:LYS:HE3	6:V:533:ASP:CG	1.96	0.85
6:U:414:GLN:CG	6:W:459:LEU:HD13	2.05	0.85
6:U:630:LEU:HD13	6:V:275:GLU:CB	2.04	0.85
6:V:333:PRO:HG2	6:W:411:VAL:CG1	2.06	0.85
5:Y:35:PHE:CE2	5:Y:71:CYS:HA	2.11	0.85
1:A:406:ASN:HD21	6:J:101:THR:C	1.85	0.85
4:D:14:TYR:HE1	6:P:57:THR:N	1.71	0.85
6:O:253:VAL:HG12	6:Q:36:LEU:HB3	0.86	0.85
6:P:36:LEU:HD23	6:Q:242:PHE:HB3	1.57	0.85
6:P:41:LEU:HD22	6:Q:242:PHE:CE2	2.07	0.85
6:U:419:MET:N	6:W:295:ARG:NH1	2.23	0.85
2:B:310:LYS:H	2:B:399:ARG:HH11	1.17	0.85
6:I:242:PHE:CZ	6:K:82:PHE:CE2	2.60	0.85
6:I:247:SER:CA	6:K:154:ARG:NH1	2.37	0.85
6:J:295:ARG:NH1	6:K:419:MET:N	2.25	0.85
5:L:4:HIS:CE1	6:P:586:VAL:C	2.55	0.85
6:P:41:LEU:HD21	6:Q:242:PHE:CD2	2.11	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:147:ARG:NE	6:W:100:LYS:HZ1	1.70	0.85
6:P:295:ARG:NH1	6:Q:419:MET:N	2.25	0.85
6:U:459:LEU:HA	6:V:412:ARG:HH11	1.02	0.85
6:U:472:ARG:CD	6:W:530:ARG:H	1.79	0.85
1:A:405:ARG:HH22	1:A:782:THR:HG23	1.42	0.85
6:I:534:SER:N	6:K:161:LYS:HZ3	1.75	0.85
6:I:548:LYS:NZ	6:K:644:LEU:HD23	1.91	0.85
6:J:29:THR:C	6:K:610:THR:CG2	2.50	0.85
6:P:458:THR:HA	6:Q:412:ARG:NE	1.82	0.85
6:V:528:ALA:HB3	6:W:283:SER:HB2	0.86	0.85
2:B:376:LEU:C	3:C:797:ALA:HA	2.01	0.85
5:H:35:PHE:CE2	5:H:71:CYS:HA	2.11	0.85
6:I:459:LEU:N	6:J:412:ARG:HE	1.72	0.85
6:I:472:ARG:HD3	6:K:529:SER:C	2.02	0.85
6:J:459:LEU:HD22	6:K:409:ILE:HG22	1.58	0.85
6:O:459:LEU:HA	6:P:412:ARG:HH11	1.02	0.85
6:O:534:SER:N	6:Q:161:LYS:HZ3	1.74	0.85
6:P:458:THR:N	6:Q:412:ARG:HD3	1.91	0.85
5:S:44:GLY:HA2	6:U:400:ALA:HA	0.87	0.85
6:U:538:ALA:N	6:W:168:THR:HB	1.91	0.85
2:B:880:LEU:HG	4:D:32:CYS:N	1.47	0.85
3:C:314:SER:CA	3:C:1196:ARG:CG	2.27	0.85
3:C:712:VAL:O	3:C:726:ARG:CZ	2.24	0.85
4:D:14:TYR:OH	6:P:54:SER:C	2.20	0.85
4:D:82:GLY:C	6:I:54:SER:CB	2.50	0.85
6:I:32:PRO:C	6:J:613:LEU:HD21	2.01	0.85
6:I:625:ARG:NE	6:J:278:THR:OG1	2.09	0.85
5:M:88:LYS:HA	5:M:126:VAL:HA	1.56	0.85
6:O:253:VAL:CG1	6:Q:36:LEU:CB	2.37	0.85
6:O:412:ARG:NH2	6:Q:459:LEU:CG	2.33	0.85
6:O:472:ARG:CD	6:Q:530:ARG:H	1.79	0.85
5:S:192:THR:O	6:U:364:PRO:O	1.95	0.85
6:U:165:THR:HG22	6:V:534:SER:C	2.01	0.85
6:I:161:LYS:CE	6:J:534:SER:N	2.40	0.85
6:J:644:LEU:HD22	6:K:548:LYS:CD	1.87	0.85
6:O:548:LYS:HZ1	6:Q:644:LEU:CD2	1.87	0.85
6:O:622:GLU:HG2	6:P:280:LEU:CA	2.05	0.85
6:O:644:LEU:HD23	6:P:548:LYS:HZ1	1.38	0.85
6:P:44:THR:CB	6:Q:84:LYS:HZ2	1.75	0.85
6:P:154:ARG:CD	6:Q:248:GLU:N	2.40	0.85
6:P:299:ILE:HD12	6:Q:419:MET:HE2	0.85	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:459:LEU:HD22	6:Q:409:ILE:HG22	1.57	0.85
5:T:193:GLY:HA3	6:V:364:PRO:HB2	1.54	0.85
6:U:644:LEU:HB3	6:V:548:LYS:HD3	1.55	0.85
6:V:44:THR:HB	6:W:84:LYS:HZ1	0.84	0.85
2:B:407:ARG:CD	4:D:184:HIS:ND1	2.32	0.84
6:I:609:ARG:CG	6:K:29:THR:CA	2.48	0.84
6:J:154:ARG:NE	6:K:247:SER:C	2.34	0.84
6:O:248:GLU:H	6:Q:154:ARG:NE	1.60	0.84
6:O:472:ARG:HD3	6:Q:529:SER:C	2.01	0.84
6:U:90:ASN:HB3	6:W:122:THR:HG21	0.89	0.84
6:U:622:GLU:CG	6:V:281:PRO:HD3	2.07	0.84
6:V:36:LEU:HD23	6:W:242:PHE:HB3	1.57	0.84
6:V:529:SER:C	6:W:472:ARG:HD3	2.01	0.84
2:B:452:ARG:HH22	2:B:665:SER:C	1.83	0.84
5:F:4:HIS:CE1	6:J:586:VAL:C	2.54	0.84
6:I:548:LYS:CD	6:K:644:LEU:HB3	2.02	0.84
6:J:121:ALA:HB3	6:K:87:PHE:CE2	2.11	0.84
6:J:644:LEU:HD23	6:K:548:LYS:NZ	1.90	0.84
6:O:298:PHE:CE2	6:P:408:ALA:HA	2.11	0.84
6:O:459:LEU:HD11	6:P:412:ARG:H	1.41	0.84
6:O:562:TYR:OH	6:Q:193:ILE:HG21	1.76	0.84
6:P:644:LEU:HB3	6:Q:548:LYS:CD	2.05	0.84
6:U:418:ASN:CB	6:W:300:LYS:HZ1	1.90	0.84
6:U:548:LYS:HE3	6:W:644:LEU:CD2	1.74	0.84
6:U:562:TYR:OH	6:W:193:ILE:HG21	1.76	0.84
6:X:497:GLU:HG3	5:Y:5:MET:SD	2.18	0.84
6:I:533:ASP:CA	6:K:161:LYS:HZ1	1.89	0.84
6:J:29:THR:CB	6:K:609:ARG:HG2	2.05	0.84
6:J:44:THR:CB	6:K:84:LYS:HZ2	1.72	0.84
6:O:284:VAL:CB	6:Q:619:ASP:HB2	2.07	0.84
6:O:297:ALA:CA	6:P:409:ILE:HD11	2.06	0.84
6:O:412:ARG:NH2	6:Q:459:LEU:HG	1.92	0.84
6:O:456:ASN:HD21	6:P:412:ARG:N	1.71	0.84
6:P:528:ALA:HB3	6:Q:283:SER:HB2	0.85	0.84
6:P:644:LEU:CD2	6:Q:548:LYS:HZ2	1.61	0.84
5:T:5:MET:HE1	6:U:494:THR:OG1	1.77	0.84
6:U:295:ARG:HH22	6:V:354:SER:HB3	1.42	0.84
6:U:411:VAL:HG22	6:W:333:PRO:O	1.52	0.84
6:U:412:ARG:HB2	6:W:459:LEU:HD12	1.29	0.84
6:X:587:GLY:CA	5:Y:2:PRO:O	2.24	0.84
4:E:335:ALA:HB1	6:U:56:ALA:CA	2.07	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:154:ARG:NH1	6:J:247:SER:CA	2.32	0.84
6:J:457:PRO:HD2	6:K:411:VAL:HG12	0.85	0.84
5:M:192:THR:O	6:O:364:PRO:O	1.95	0.84
6:O:161:LYS:CE	6:P:534:SER:N	2.41	0.84
6:O:298:PHE:CZ	6:P:416:ARG:CA	2.60	0.84
6:O:412:ARG:HH11	6:Q:459:LEU:HA	1.03	0.84
6:O:538:ALA:N	6:Q:168:THR:HB	1.91	0.84
6:U:458:THR:HA	6:V:412:ARG:HD2	0.94	0.84
2:B:1213:ALA:HB3	3:C:552:ASP:OD2	1.76	0.84
5:G:192:THR:O	6:I:364:PRO:O	1.95	0.84
6:I:122:THR:CG2	6:J:90:ASN:CB	2.35	0.84
6:I:280:LEU:HD12	6:K:622:GLU:HB3	0.85	0.84
6:J:529:SER:C	6:K:472:ARG:HD3	2.02	0.84
5:N:35:PHE:CE2	5:N:71:CYS:HA	2.11	0.84
6:O:242:PHE:CZ	6:Q:82:PHE:CE2	2.60	0.84
6:O:534:SER:H	6:Q:161:LYS:CE	1.89	0.84
5:S:88:LYS:HA	5:S:126:VAL:HA	1.56	0.84
6:U:253:VAL:HG12	6:W:36:LEU:HB3	0.86	0.84
6:U:472:ARG:HD3	6:W:529:SER:C	2.01	0.84
6:U:541:SER:HG	6:W:168:THR:C	1.83	0.84
4:E:400:THR:CG2	6:U:53:THR:CG2	2.48	0.84
5:F:4:HIS:CE1	6:J:587:GLY:HA3	2.08	0.84
6:I:161:LYS:HG3	6:J:533:ASP:OD1	1.78	0.84
6:I:193:ILE:C	6:J:562:TYR:CD1	2.42	0.84
6:I:562:TYR:OH	6:K:193:ILE:HG21	1.76	0.84
6:J:458:THR:HA	6:K:412:ARG:HD2	1.11	0.84
5:T:44:GLY:CA	6:V:400:ALA:HB1	1.91	0.84
6:U:534:SER:N	6:W:161:LYS:CE	2.41	0.84
6:V:154:ARG:CD	6:W:248:GLU:N	2.40	0.84
6:V:193:ILE:HG22	6:W:562:TYR:CD1	2.11	0.84
2:B:645:HIS:CD2	2:B:703:THR:HG1	1.95	0.84
2:B:956:HIS:CD2	4:D:43:HIS:NE2	2.45	0.84
5:F:4:HIS:CE1	6:J:587:GLY:H	1.93	0.84
6:I:548:LYS:HD3	6:K:644:LEU:CB	2.02	0.84
6:O:161:LYS:C	6:P:534:SER:OG	2.21	0.84
6:O:411:VAL:HG13	6:Q:333:PRO:O	1.77	0.84
6:U:44:THR:CB	6:V:84:LYS:HZ1	1.59	0.84
6:U:161:LYS:CE	6:V:534:SER:H	1.91	0.84
6:V:32:PRO:O	6:W:613:LEU:HD22	1.74	0.84
6:V:154:ARG:NE	6:W:247:SER:C	2.35	0.84
2:B:383:ALA:C	2:B:384:MET:HG3	2.00	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:954:PRO:HG3	4:D:39:SER:HB2	0.95	0.84
6:I:622:GLU:CG	6:J:281:PRO:HD3	2.07	0.84
6:J:42:ASN:HD21	6:K:235:LEU:HD22	1.42	0.84
6:J:168:THR:HG1	6:K:537:SER:CB	1.91	0.84
6:U:412:ARG:NH2	6:W:459:LEU:HG	1.92	0.84
6:V:165:THR:HA	6:W:537:SER:OG	1.76	0.84
3:C:377:ILE:HG22	3:C:381:VAL:N	1.92	0.84
4:D:389:PHE:C	6:P:54:SER:HA	2.02	0.84
4:E:336:ALA:N	6:U:54:SER:HB2	1.93	0.84
6:I:606:THR:HG22	6:I:609:ARG:NH2	1.92	0.84
6:O:533:ASP:CA	6:Q:161:LYS:HZ1	1.89	0.84
6:V:41:LEU:HD21	6:W:242:PHE:CD2	2.12	0.84
6:I:147:ARG:HG2	6:Q:100:LYS:HD3	0.85	0.84
6:J:297:ALA:HA	6:K:409:ILE:CD1	2.08	0.84
6:O:280:LEU:HD12	6:Q:622:GLU:HB3	0.85	0.84
6:O:545:VAL:HG13	6:Q:641:ILE:HG13	1.46	0.84
6:P:29:THR:CB	6:Q:609:ARG:HG2	2.06	0.84
5:S:91:THR:HB	5:S:180:HIS:HE1	1.43	0.84
6:U:534:SER:H	6:W:161:LYS:CE	1.90	0.84
6:U:644:LEU:CD2	6:V:548:LYS:HE3	1.84	0.84
2:B:404:MET:HE3	4:D:46:ILE:HB	1.58	0.83
4:D:388:PRO:C	6:P:54:SER:OG	2.20	0.83
5:G:44:GLY:HA2	6:I:400:ALA:HA	0.86	0.83
5:G:44:GLY:O	6:I:400:ALA:HB2	1.78	0.83
5:H:101:TYR:HB2	5:H:118:THR:HA	1.57	0.83
6:I:295:ARG:HH11	6:J:419:MET:H	1.26	0.83
5:L:2:PRO:HG2	6:P:587:GLY:HA2	1.59	0.83
6:O:87:PHE:CE2	6:Q:121:ALA:CB	2.61	0.83
6:U:84:LYS:HZ1	6:W:44:THR:HB	0.96	0.83
6:U:459:LEU:HD11	6:V:412:ARG:H	1.41	0.83
6:V:459:LEU:CD1	6:W:412:ARG:O	2.25	0.83
6:I:161:LYS:CE	6:J:534:SER:H	1.90	0.83
6:I:412:ARG:HH22	6:K:459:LEU:HD23	1.02	0.83
5:M:91:THR:HB	5:M:180:HIS:HE1	1.43	0.83
5:N:91:THR:HB	5:N:180:HIS:HE1	1.43	0.83
6:V:644:LEU:HD23	6:W:548:LYS:NZ	1.89	0.83
6:X:587:GLY:CA	5:Y:2:PRO:CG	2.54	0.83
2:B:792:GLN:CG	4:D:105:ALA:CB	2.56	0.83
2:B:1181:THR:O	4:D:52:PRO:HG3	1.70	0.83
4:E:339:LEU:HD23	6:U:55:VAL:HG21	1.60	0.83
6:I:619:ASP:HB2	6:J:284:VAL:HG22	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:41:LEU:HD21	6:K:242:PHE:CD2	2.12	0.83
6:P:36:LEU:HD11	6:Q:242:PHE:CD2	2.13	0.83
6:P:529:SER:C	6:Q:472:ARG:HD3	2.02	0.83
5:T:5:MET:HE2	6:U:494:THR:CG2	2.00	0.83
6:U:32:PRO:C	6:V:613:LEU:HD21	2.02	0.83
6:U:295:ARG:HH11	6:V:419:MET:H	1.25	0.83
6:U:548:LYS:HD3	6:W:644:LEU:CB	2.02	0.83
6:U:625:ARG:NE	6:V:278:THR:OG1	2.10	0.83
3:C:792:GLN:HE22	4:D:346:LEU:CA	1.91	0.83
6:I:298:PHE:O	6:J:418:ASN:OD1	1.97	0.83
6:I:309:GLU:HG2	6:I:337:ARG:HD3	1.61	0.83
6:I:622:GLU:HG2	6:J:280:LEU:CA	2.06	0.83
6:J:193:ILE:HG22	6:K:562:TYR:CD1	2.12	0.83
6:J:299:ILE:HD12	6:K:419:MET:HE2	0.83	0.83
6:U:34:ILE:C	6:V:256:SER:HG	1.85	0.83
6:U:161:LYS:CE	6:V:534:SER:N	2.41	0.83
6:U:284:VAL:CB	6:W:619:ASP:HB2	2.07	0.83
6:U:411:VAL:HG13	6:W:333:PRO:O	1.78	0.83
6:V:295:ARG:NH1	6:W:419:MET:N	2.25	0.83
6:V:641:ILE:HG12	6:W:545:VAL:CG1	2.06	0.83
1:A:1063:VAL:HB	1:A:1071:ILE:HB	1.61	0.83
6:I:41:LEU:HD22	6:J:242:PHE:HE2	1.39	0.83
5:N:4:HIS:CD2	6:O:586:VAL:HG23	2.06	0.83
6:O:459:LEU:CB	6:P:412:ARG:HB2	2.08	0.83
6:O:610:THR:CB	6:Q:30:ALA:HB2	2.08	0.83
6:P:121:ALA:HB2	6:Q:87:PHE:CD2	1.97	0.83
3:C:1004:PHE:HB3	3:C:1073:ARG:HH21	1.43	0.83
6:I:641:ILE:HD11	6:J:545:VAL:CG2	2.05	0.83
6:J:121:ALA:HB2	6:K:87:PHE:CD2	1.99	0.83
6:O:295:ARG:HH11	6:P:419:MET:H	1.25	0.83
6:O:298:PHE:CE1	6:P:416:ARG:O	2.31	0.83
6:U:278:THR:OG1	6:W:625:ARG:CZ	2.27	0.83
1:A:353:ARG:HH21	4:D:129:VAL:CG1	1.91	0.83
5:F:2:PRO:HG2	6:J:587:GLY:HA2	1.61	0.83
5:G:91:THR:HB	5:G:180:HIS:HE1	1.43	0.83
6:I:284:VAL:CB	6:K:619:ASP:HB2	2.08	0.83
6:O:534:SER:N	6:Q:161:LYS:CE	2.41	0.83
6:P:42:ASN:HD21	6:Q:235:LEU:HD22	1.42	0.83
6:P:297:ALA:HA	6:Q:409:ILE:CD1	2.08	0.83
6:U:472:ARG:CG	6:W:530:ARG:HA	2.07	0.83
2:B:380:GLU:HB3	3:C:798:VAL:HG22	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:432:ILE:CD1	3:C:614:GLN:HG2	2.07	0.83
6:I:161:LYS:C	6:J:534:SER:OG	2.21	0.83
6:I:295:ARG:HH22	6:J:354:SER:HB3	1.44	0.83
6:I:459:LEU:CB	6:J:412:ARG:HB2	2.08	0.83
6:I:622:GLU:HB2	6:J:281:PRO:HD3	1.59	0.83
6:O:34:ILE:C	6:P:256:SER:HG	1.87	0.83
6:O:165:THR:O	6:P:537:SER:CB	2.26	0.83
6:O:256:SER:HG	6:Q:34:ILE:C	1.87	0.83
6:O:548:LYS:CD	6:Q:644:LEU:CB	2.39	0.83
6:U:87:PHE:CE2	6:W:121:ALA:CB	2.61	0.83
6:U:165:THR:O	6:V:537:SER:CB	2.27	0.83
6:U:194:LEU:HA	6:V:562:TYR:CG	2.13	0.83
6:U:562:TYR:CB	6:W:195:PRO:CG	2.52	0.83
3:C:795:ASP:OD2	4:D:249:LYS:HD3	1.78	0.83
4:D:392:ALA:CB	6:P:49:ARG:NH2	2.42	0.83
5:H:2:PRO:HG2	6:I:587:GLY:CA	2.03	0.83
5:N:44:GLY:O	6:P:400:ALA:CB	2.27	0.83
6:O:247:SER:CA	6:Q:154:ARG:NH1	2.36	0.83
6:O:619:ASP:CA	6:P:284:VAL:HG21	2.08	0.83
6:P:619:ASP:CB	6:Q:284:VAL:CG2	2.41	0.83
6:P:644:LEU:HD23	6:Q:548:LYS:NZ	1.90	0.83
5:T:91:THR:HB	5:T:180:HIS:HE1	1.43	0.83
6:U:161:LYS:C	6:V:534:SER:OG	2.22	0.83
6:U:456:ASN:ND2	6:V:412:ARG:CD	2.42	0.83
6:V:630:LEU:HD13	6:W:275:GLU:HG3	1.43	0.83
6:V:644:LEU:CB	6:W:548:LYS:HD3	2.07	0.83
5:H:91:THR:HB	5:H:180:HIS:HE1	1.43	0.83
6:I:194:LEU:HA	6:J:562:TYR:CG	2.14	0.83
6:I:411:VAL:HG13	6:K:333:PRO:O	1.77	0.83
6:J:459:LEU:HD12	6:K:412:ARG:HB3	1.61	0.83
5:L:192:THR:C	6:Q:364:PRO:CB	2.50	0.83
6:O:278:THR:OG1	6:Q:625:ARG:CZ	2.27	0.83
6:O:472:ARG:NE	6:Q:530:ARG:N	1.88	0.83
5:S:44:GLY:O	6:U:400:ALA:HB2	1.78	0.83
6:U:154:ARG:NE	6:V:248:GLU:H	1.59	0.83
6:U:412:ARG:HH22	6:W:459:LEU:HD23	1.02	0.83
5:G:101:TYR:HB2	5:G:118:THR:HA	1.57	0.82
6:I:333:PRO:CG	6:J:411:VAL:HG13	2.09	0.82
6:I:610:THR:CB	6:K:30:ALA:HB2	2.09	0.82
6:I:644:LEU:HB3	6:J:548:LYS:HD3	1.55	0.82
6:J:528:ALA:HB3	6:K:283:SER:HB2	0.85	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:29:THR:CB	6:W:609:ARG:HG2	2.07	0.82
6:V:458:THR:N	6:W:412:ARG:HD3	1.92	0.82
2:B:1178:ARG:HD3	4:D:241:LEU:HD22	1.51	0.82
6:I:165:THR:O	6:J:537:SER:CB	2.26	0.82
6:O:30:ALA:N	6:P:610:THR:HG23	1.90	0.82
6:O:283:SER:O	6:Q:528:ALA:CB	2.28	0.82
6:O:309:GLU:HG2	6:O:337:ARG:HD3	1.61	0.82
6:O:412:ARG:HH22	6:Q:459:LEU:HD23	1.03	0.82
6:P:44:THR:OG1	6:Q:84:LYS:HE3	1.57	0.82
6:U:90:ASN:CB	6:W:122:THR:CG2	2.44	0.82
6:V:42:ASN:ND2	6:W:235:LEU:HD23	1.74	0.82
6:V:299:ILE:HD12	6:W:419:MET:HE2	0.84	0.82
2:B:1182:ASN:HA	4:D:52:PRO:HG2	1.09	0.82
6:I:161:LYS:HE3	6:J:533:ASP:CB	2.08	0.82
6:J:66:ASP:CB	6:K:232:ALA:HB2	1.75	0.82
5:R:2:PRO:HG2	6:V:587:GLY:HA2	1.60	0.82
6:U:416:ARG:HB3	6:W:298:PHE:HE1	1.45	0.82
6:V:530:ARG:H	6:W:472:ARG:NE	1.55	0.82
2:B:882:PRO:HB2	2:B:962:GLN:NE2	1.93	0.82
4:D:392:ALA:N	6:P:49:ARG:HH21	1.74	0.82
6:I:619:ASP:CA	6:J:284:VAL:HG21	2.08	0.82
6:O:161:LYS:CE	6:P:534:SER:H	1.91	0.82
6:O:548:LYS:NZ	6:Q:644:LEU:HD23	1.92	0.82
6:P:154:ARG:NE	6:Q:247:SER:C	2.36	0.82
6:V:30:ALA:HB3	6:W:610:THR:HA	1.58	0.82
3:C:712:VAL:C	3:C:726:ARG:NH1	2.29	0.82
5:F:4:HIS:CB	6:J:586:VAL:HG21	2.10	0.82
6:I:267:ALA:HB1	6:K:254:GLY:HA2	1.60	0.82
6:I:414:GLN:NE2	6:K:459:LEU:HD13	1.84	0.82
5:N:5:MET:HE1	6:O:494:THR:OG1	1.78	0.82
6:O:279:PRO:O	6:Q:622:GLU:HG3	1.77	0.82
6:O:456:ASN:ND2	6:P:412:ARG:CD	2.43	0.82
6:P:622:GLU:HB3	6:Q:280:LEU:HD12	0.83	0.82
6:U:459:LEU:CB	6:V:412:ARG:HB2	2.09	0.82
5:F:146:ASN:HB3	5:F:168:PRO:HD3	1.62	0.82
6:I:84:LYS:HE3	6:K:44:THR:OG1	1.60	0.82
6:I:100:LYS:CE	6:Q:144:ASN:HD22	1.92	0.82
6:I:253:VAL:CG1	6:K:36:LEU:CB	2.37	0.82
6:I:622:GLU:CB	6:J:281:PRO:HD3	2.09	0.82
5:M:44:GLY:O	6:O:400:ALA:HB2	1.80	0.82
6:O:284:VAL:CG1	6:Q:619:ASP:HB2	2.08	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:44:THR:CB	6:W:84:LYS:HZ2	1.90	0.82
5:F:44:GLY:C	6:K:400:ALA:CA	2.33	0.82
5:H:146:ASN:HB3	5:H:168:PRO:HD3	1.62	0.82
6:I:295:ARG:HH22	6:J:354:SER:HB2	1.45	0.82
6:O:36:LEU:HB3	6:P:253:VAL:HG12	0.82	0.82
6:O:121:ALA:CB	6:P:87:PHE:CE2	2.62	0.82
6:P:309:GLU:HG2	6:P:337:ARG:HD3	1.60	0.82
6:V:42:ASN:HD21	6:W:235:LEU:HD22	1.42	0.82
6:X:309:GLU:HG2	6:X:337:ARG:HD3	1.60	0.82
1:A:929:MET:HB3	1:A:1028:ILE:HG13	1.62	0.82
2:B:404:MET:HG2	4:D:46:ILE:CG1	2.08	0.82
6:J:154:ARG:NE	6:K:248:GLU:H	1.65	0.82
6:O:154:ARG:HH11	6:P:246:THR:HB	1.45	0.82
6:O:235:LEU:HD22	6:Q:42:ASN:HD21	1.43	0.82
6:U:247:SER:CA	6:W:154:ARG:NH1	2.37	0.82
2:B:954:PRO:HB2	4:D:43:HIS:HD2	1.43	0.82
6:I:300:LYS:NZ	6:J:418:ASN:CB	2.42	0.82
6:I:456:ASN:ND2	6:J:412:ARG:CD	2.43	0.82
6:O:298:PHE:O	6:P:418:ASN:OD1	1.98	0.82
6:U:256:SER:HA	6:W:33:ALA:HB1	1.62	0.82
2:B:376:LEU:HB3	4:D:249:LYS:HE3	1.62	0.82
2:B:379:GLY:C	3:C:798:VAL:HG11	1.71	0.82
6:I:534:SER:H	6:K:161:LYS:CE	1.92	0.82
6:J:459:LEU:HG	6:K:412:ARG:NH2	1.90	0.82
6:O:87:PHE:CZ	6:Q:121:ALA:HB2	2.15	0.82
6:O:267:ALA:HB1	6:Q:254:GLY:HA2	1.61	0.82
6:O:534:SER:N	6:Q:161:LYS:NZ	2.28	0.82
6:O:609:ARG:CG	6:Q:29:THR:CA	2.47	0.82
6:U:33:ALA:HB1	6:V:256:SER:CA	2.09	0.82
6:U:242:PHE:HE2	6:W:41:LEU:HD22	1.37	0.82
6:U:267:ALA:HB1	6:W:254:GLY:HA2	1.61	0.82
6:U:279:PRO:O	6:W:622:GLU:HG3	1.78	0.82
6:U:295:ARG:HH11	6:V:419:MET:N	1.74	0.82
6:U:622:GLU:HB2	6:V:281:PRO:HD3	1.61	0.82
1:A:152:THR:OG1	3:C:598:PRO:HB2	1.77	0.81
6:J:36:LEU:HD11	6:K:242:PHE:CD2	2.14	0.81
5:L:44:GLY:HA3	6:Q:400:ALA:C	1.88	0.81
6:O:194:LEU:HA	6:P:562:TYR:CG	2.15	0.81
6:O:610:THR:HG23	6:Q:30:ALA:N	1.94	0.81
6:P:147:ARG:NH1	6:W:100:LYS:CD	2.39	0.81
5:R:192:THR:C	6:W:364:PRO:CB	2.50	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:146:ASN:HB3	5:S:168:PRO:HD3	1.62	0.81
6:U:168:THR:HB	6:V:538:ALA:CA	2.10	0.81
6:U:309:GLU:HG2	6:U:337:ARG:HD3	1.60	0.81
1:A:359:TYR:CZ	1:A:378:PRO:HA	2.16	0.81
1:A:377:ARG:HD2	6:I:51:VAL:CG1	2.10	0.81
2:B:376:LEU:CD1	4:D:249:LYS:CD	2.37	0.81
2:B:687:LEU:HG	2:B:688:THR:H	1.44	0.81
5:H:5:MET:HE1	6:I:494:THR:OG1	1.78	0.81
6:I:87:PHE:CE2	6:K:121:ALA:CB	2.62	0.81
6:J:459:LEU:CD1	6:K:412:ARG:O	2.26	0.81
6:O:161:LYS:HG3	6:P:533:ASP:OD1	1.78	0.81
6:O:295:ARG:HH22	6:P:354:SER:HB3	1.43	0.81
6:P:42:ASN:ND2	6:Q:235:LEU:HD22	1.95	0.81
6:U:161:LYS:HG3	6:V:533:ASP:OD1	1.78	0.81
6:U:333:PRO:CG	6:V:411:VAL:HG13	2.09	0.81
6:U:412:ARG:CD	6:W:458:THR:H	1.91	0.81
6:V:29:THR:CB	6:W:609:ARG:CD	2.49	0.81
2:B:954:PRO:HB3	4:D:39:SER:C	2.05	0.81
3:C:436:LEU:HD13	4:E:187:GLN:HE22	1.45	0.81
3:C:715:VAL:HG23	3:C:726:ARG:NH2	1.95	0.81
5:G:4:HIS:NE2	6:K:586:VAL:CG2	2.26	0.81
6:I:30:ALA:HB3	6:J:610:THR:CA	2.11	0.81
6:I:235:LEU:HD22	6:K:42:ASN:HD21	1.43	0.81
6:I:242:PHE:HB3	6:K:36:LEU:HD23	1.60	0.81
6:I:412:ARG:N	6:K:459:LEU:HD11	1.96	0.81
6:J:121:ALA:CB	6:K:87:PHE:CE1	2.57	0.81
5:M:110:PHE:O	5:M:272:VAL:HA	1.80	0.81
6:O:33:ALA:HB1	6:P:256:SER:CA	2.10	0.81
6:P:283:SER:HB3	6:P:472:ARG:NH2	1.96	0.81
6:P:297:ALA:HA	6:Q:409:ILE:HD11	1.62	0.81
6:P:298:PHE:CE1	6:Q:417:PHE:O	2.33	0.81
6:U:412:ARG:N	6:W:459:LEU:HD11	1.95	0.81
6:V:41:LEU:HD22	6:W:242:PHE:CE2	2.06	0.81
6:I:121:ALA:CB	6:J:87:PHE:CE2	2.62	0.81
6:I:168:THR:OG1	6:J:537:SER:CA	2.28	0.81
6:I:278:THR:OG1	6:K:625:ARG:CZ	2.28	0.81
6:I:279:PRO:O	6:K:622:GLU:HG3	1.78	0.81
6:I:456:ASN:HD21	6:J:412:ARG:N	1.74	0.81
6:I:534:SER:N	6:K:161:LYS:CE	2.43	0.81
6:O:168:THR:HB	6:P:538:ALA:CA	2.11	0.81
6:O:242:PHE:HE2	6:Q:41:LEU:HD22	1.38	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:458:THR:H	6:P:412:ARG:CD	1.91	0.81
6:P:193:ILE:HG22	6:Q:562:TYR:CD1	2.11	0.81
6:Q:309:GLU:HG2	6:Q:337:ARG:HD3	1.61	0.81
6:U:41:LEU:HD13	6:V:239:ALA:CA	2.11	0.81
6:U:87:PHE:CE2	6:W:121:ALA:HB3	2.16	0.81
6:U:87:PHE:CZ	6:W:121:ALA:HB2	2.15	0.81
6:U:280:LEU:CA	6:W:622:GLU:HG2	2.10	0.81
6:V:297:ALA:HA	6:W:409:ILE:CD1	2.08	0.81
1:A:1057:PRO:HD3	1:A:1094:GLN:HE22	1.45	0.81
2:B:1211:ARG:HH21	3:C:611:PRO:CB	1.90	0.81
3:C:404:MET:HE1	4:E:175:MET:HB2	1.63	0.81
6:I:283:SER:O	6:K:528:ALA:CB	2.27	0.81
6:I:411:VAL:HG22	6:K:333:PRO:O	1.53	0.81
6:J:254:GLY:HA2	6:K:267:ALA:HB1	1.63	0.81
6:O:29:THR:OG1	6:P:609:ARG:HG2	1.81	0.81
6:O:533:ASP:CA	6:Q:161:LYS:NZ	2.38	0.81
5:T:146:ASN:HB3	5:T:168:PRO:HD3	1.62	0.81
6:U:168:THR:OG1	6:V:537:SER:CA	2.29	0.81
6:V:161:LYS:NZ	6:W:533:ASP:CA	2.40	0.81
6:V:459:LEU:HG	6:W:412:ARG:NH2	1.89	0.81
2:B:880:LEU:HD22	4:D:27:GLN:O	1.75	0.81
4:D:392:ALA:H	6:P:49:ARG:HH22	1.26	0.81
4:D:392:ALA:HB3	6:P:49:ARG:CZ	2.05	0.81
5:H:110:PHE:O	5:H:272:VAL:HA	1.80	0.81
6:I:644:LEU:HD23	6:J:548:LYS:HZ1	1.45	0.81
6:J:309:GLU:HG2	6:J:337:ARG:HD3	1.61	0.81
5:M:4:HIS:NE2	6:Q:586:VAL:CG2	2.26	0.81
5:M:5:MET:HE3	6:Q:494:THR:HG21	0.83	0.81
6:O:418:ASN:OD1	6:Q:298:PHE:O	1.99	0.81
6:P:578:SER:HB3	6:Q:471:LEU:HD13	1.59	0.81
5:R:91:THR:HB	5:R:180:HIS:HE1	1.44	0.81
6:U:418:ASN:OD1	6:W:298:PHE:O	1.99	0.81
6:U:471:LEU:HD13	6:W:578:SER:HB3	1.62	0.81
6:U:610:THR:CB	6:W:30:ALA:HB2	2.09	0.81
6:V:29:THR:C	6:W:610:THR:HG23	2.06	0.81
6:V:161:LYS:HZ3	6:W:534:SER:N	1.79	0.81
6:W:309:GLU:HG2	6:W:337:ARG:HD3	1.61	0.81
2:B:310:LYS:O	2:B:399:ARG:HD2	1.81	0.81
2:B:429:ASN:ND2	3:C:611:PRO:CG	2.44	0.81
2:B:954:PRO:HD3	4:D:39:SER:HB3	1.60	0.81
6:I:34:ILE:C	6:J:256:SER:HG	1.87	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:623:LYS:HE3	6:J:270:ASP:OD2	1.81	0.81
6:O:623:LYS:HE3	6:P:270:ASP:OD2	1.80	0.81
6:U:619:ASP:CA	6:V:284:VAL:HG21	2.09	0.81
6:V:578:SER:HB3	6:W:471:LEU:HD12	1.56	0.81
6:V:644:LEU:HD23	6:W:548:LYS:HZ1	1.40	0.81
5:Y:146:ASN:HB3	5:Y:168:PRO:HD3	1.62	0.81
3:C:795:ASP:CG	4:D:251:ASN:CG	2.46	0.81
4:D:389:PHE:CB	6:P:54:SER:HB3	1.84	0.81
5:F:91:THR:HB	5:F:180:HIS:HE1	1.44	0.81
6:I:419:MET:HE2	6:K:299:ILE:HD12	0.82	0.81
6:I:534:SER:N	6:K:161:LYS:NZ	2.29	0.81
6:K:309:GLU:HG2	6:K:337:ARG:HD3	1.60	0.81
6:P:459:LEU:HD12	6:Q:412:ARG:HB3	1.61	0.81
5:S:44:GLY:HA2	6:U:400:ALA:O	1.81	0.81
6:V:36:LEU:HD11	6:W:242:PHE:CD2	2.15	0.81
6:V:283:SER:HB3	6:V:472:ARG:NH2	1.96	0.81
1:A:377:ARG:CD	6:I:51:VAL:HG11	2.09	0.81
1:A:379:VAL:HG12	6:I:60:SER:OG	1.81	0.81
3:C:381:VAL:HG11	3:C:439:THR:OG1	1.81	0.81
5:H:44:GLY:O	6:J:400:ALA:CB	2.28	0.81
6:I:87:PHE:CE1	6:K:121:ALA:CB	2.59	0.81
6:I:297:ALA:O	6:J:409:ILE:CD1	2.29	0.81
6:J:458:THR:HA	6:K:412:ARG:NE	1.83	0.81
5:L:91:THR:HB	5:L:180:HIS:HE1	1.45	0.81
6:O:90:ASN:CB	6:Q:122:THR:CG2	2.44	0.81
6:O:256:SER:HA	6:Q:33:ALA:HB1	1.61	0.81
6:O:295:ARG:HH22	6:P:354:SER:HB2	1.46	0.81
6:O:333:PRO:CG	6:P:411:VAL:HG13	2.09	0.81
6:O:622:GLU:HB2	6:P:281:PRO:HD3	1.62	0.81
5:T:44:GLY:O	6:V:400:ALA:CB	2.28	0.81
5:T:110:PHE:O	5:T:272:VAL:HA	1.81	0.81
6:U:121:ALA:CB	6:V:87:PHE:CE2	2.63	0.81
6:U:235:LEU:HD22	6:W:42:ASN:HD21	1.43	0.81
6:U:281:PRO:HD3	6:W:622:GLU:CB	2.10	0.81
6:U:283:SER:HA	6:W:528:ALA:CB	1.96	0.81
6:U:283:SER:O	6:W:528:ALA:CB	2.27	0.81
6:U:298:PHE:CE1	6:V:416:ARG:O	2.33	0.81
6:U:534:SER:N	6:W:161:LYS:NZ	2.28	0.81
6:V:193:ILE:C	6:W:562:TYR:CZ	2.58	0.81
6:V:297:ALA:HA	6:W:409:ILE:HD11	1.63	0.81
6:V:298:PHE:CE1	6:W:417:PHE:O	2.34	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:390:ASN:H	6:P:54:SER:HA	1.40	0.81
5:F:110:PHE:O	5:F:272:VAL:HA	1.80	0.81
5:L:146:ASN:HB3	5:L:168:PRO:HD3	1.61	0.81
5:N:110:PHE:O	5:N:272:VAL:HA	1.80	0.81
6:O:41:LEU:CD2	6:P:242:PHE:CD2	2.64	0.81
6:O:87:PHE:CE1	6:Q:121:ALA:CB	2.59	0.81
6:P:168:THR:OG1	6:Q:537:SER:CB	2.29	0.81
5:S:110:PHE:O	5:S:272:VAL:HA	1.79	0.81
6:U:168:THR:HB	6:V:538:ALA:N	1.96	0.81
6:V:29:THR:CA	6:W:609:ARG:HG2	2.11	0.81
6:V:154:ARG:NH1	6:W:247:SER:CA	2.41	0.81
2:B:951:PRO:HB3	4:D:98:SER:O	1.79	0.80
5:G:110:PHE:O	5:G:272:VAL:HA	1.81	0.80
6:I:168:THR:HB	6:J:538:ALA:N	1.96	0.80
6:I:418:ASN:OD1	6:K:298:PHE:O	1.99	0.80
6:U:161:LYS:HE3	6:V:533:ASP:CB	2.09	0.80
6:U:409:ILE:HG22	6:W:459:LEU:HD22	1.63	0.80
6:U:528:ALA:CB	6:V:283:SER:O	2.29	0.80
6:U:610:THR:HG23	6:W:30:ALA:N	1.95	0.80
6:U:622:GLU:HG2	6:V:280:LEU:CA	2.06	0.80
6:V:456:ASN:OD1	6:W:412:ARG:HA	1.65	0.80
6:V:457:PRO:HD2	6:W:411:VAL:HG12	0.82	0.80
6:I:295:ARG:HH12	6:J:419:MET:HB3	1.19	0.80
6:I:459:LEU:HA	6:J:412:ARG:HH11	0.99	0.80
6:I:528:ALA:CB	6:J:283:SER:O	2.29	0.80
6:O:169:MET:N	6:P:537:SER:HB2	1.97	0.80
6:O:411:VAL:CG1	6:Q:333:PRO:HG2	2.11	0.80
6:P:459:LEU:HG	6:Q:412:ARG:NH2	1.89	0.80
5:R:44:GLY:HA3	6:W:400:ALA:C	1.88	0.80
6:U:66:ASP:CG	6:V:232:ALA:HB1	1.80	0.80
6:U:193:ILE:HG22	6:V:562:TYR:CD1	2.13	0.80
6:U:541:SER:HB3	6:W:170:LEU:HA	1.64	0.80
6:V:42:ASN:ND2	6:W:235:LEU:HD22	1.94	0.80
6:V:309:GLU:HG2	6:V:337:ARG:HD3	1.60	0.80
6:V:530:ARG:N	6:W:472:ARG:HD2	1.86	0.80
4:E:400:THR:CB	6:U:52:GLY:C	2.53	0.80
6:I:33:ALA:HB1	6:J:256:SER:CA	2.10	0.80
6:I:298:PHE:HB3	6:J:418:ASN:HA	1.00	0.80
6:J:154:ARG:HE	6:K:248:GLU:H	0.81	0.80
6:J:193:ILE:C	6:K:562:TYR:CZ	2.58	0.80
5:L:44:GLY:CA	6:Q:400:ALA:HB1	2.01	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:4:HIS:CE1	6:O:587:GLY:HA3	2.08	0.80
6:O:472:ARG:HD3	6:Q:530:ARG:CB	2.12	0.80
6:O:528:ALA:CB	6:P:283:SER:O	2.29	0.80
5:R:110:PHE:O	5:R:272:VAL:HA	1.80	0.80
6:U:280:LEU:HD12	6:W:622:GLU:HB3	0.84	0.80
6:U:456:ASN:HD21	6:V:412:ARG:CB	1.92	0.80
6:V:168:THR:OG1	6:W:537:SER:CB	2.30	0.80
1:A:917:LEU:HA	1:A:920:ARG:HE	1.45	0.80
4:D:390:ASN:N	6:P:55:VAL:N	2.20	0.80
4:E:404:VAL:HG11	6:U:49:ARG:NH2	1.95	0.80
5:G:44:GLY:HA2	6:I:400:ALA:O	1.81	0.80
6:I:29:THR:OG1	6:J:609:ARG:CG	2.30	0.80
6:O:122:THR:HG21	6:P:90:ASN:HB3	0.83	0.80
5:R:146:ASN:HB3	5:R:168:PRO:HD3	1.61	0.80
6:U:41:LEU:CD2	6:V:242:PHE:CD2	2.64	0.80
6:U:169:MET:N	6:V:537:SER:HB2	1.95	0.80
6:U:298:PHE:O	6:V:418:ASN:OD1	1.98	0.80
6:U:619:ASP:HB2	6:V:284:VAL:HG22	1.61	0.80
6:X:587:GLY:CA	5:Y:2:PRO:C	2.50	0.80
3:C:315:SER:OG	3:C:331:ARG:NH2	2.15	0.80
3:C:669:PHE:CD1	3:C:938:TYR:HD2	1.99	0.80
6:I:36:LEU:HB3	6:J:253:VAL:HG12	0.82	0.80
6:I:169:MET:N	6:J:537:SER:HB2	1.96	0.80
6:J:36:LEU:HD23	6:K:242:PHE:HB3	1.57	0.80
6:J:459:LEU:HD23	6:K:409:ILE:HG22	1.64	0.80
5:L:4:HIS:CB	6:P:586:VAL:HG21	2.11	0.80
5:N:44:GLY:HA2	6:P:400:ALA:HA	0.87	0.80
6:O:168:THR:OG1	6:P:537:SER:CA	2.29	0.80
6:O:548:LYS:HE3	6:Q:644:LEU:CD2	1.75	0.80
6:U:622:GLU:CB	6:V:281:PRO:HD3	2.10	0.80
1:A:346:PRO:HD2	1:A:349:TRP:CH2	2.17	0.80
1:A:988:TRP:CZ3	1:A:1026:LEU:HB2	2.17	0.80
2:B:792:GLN:CD	4:D:105:ALA:CB	2.54	0.80
3:C:436:LEU:CD1	4:E:187:GLN:HE22	1.93	0.80
4:D:388:PRO:C	6:P:54:SER:CB	2.55	0.80
6:J:298:PHE:CE1	6:K:417:PHE:O	2.34	0.80
6:O:283:SER:HB3	6:Q:529:SER:N	1.96	0.80
6:O:622:GLU:CB	6:P:281:PRO:HD3	2.12	0.80
6:P:29:THR:CA	6:Q:609:ARG:HG2	2.12	0.80
6:P:193:ILE:C	6:Q:562:TYR:CZ	2.58	0.80
6:V:168:THR:HG1	6:W:537:SER:CB	1.95	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:168:THR:O	6:W:541:SER:OG	2.00	0.80
2:B:953:GLY:N	4:D:35:ARG:NH2	2.30	0.80
6:I:121:ALA:HB2	6:J:87:PHE:CD2	1.95	0.80
6:I:168:THR:HB	6:J:538:ALA:CA	2.10	0.80
6:I:280:LEU:CA	6:K:622:GLU:HG2	2.11	0.80
6:J:193:ILE:HG22	6:K:562:TYR:CE2	2.11	0.80
6:J:644:LEU:CB	6:K:548:LYS:HD3	2.04	0.80
6:O:412:ARG:HD3	6:Q:458:THR:N	1.94	0.80
6:P:459:LEU:CD1	6:Q:412:ARG:O	2.26	0.80
6:P:644:LEU:CD2	6:Q:548:LYS:HZ1	1.89	0.80
6:U:283:SER:HB3	6:W:529:SER:N	1.95	0.80
6:V:29:THR:CA	6:W:609:ARG:CG	2.59	0.80
2:B:376:LEU:CB	4:D:249:LYS:CE	2.58	0.80
2:B:409:MET:HE2	2:B:443:PRO:CB	2.11	0.80
2:B:745:PHE:CE2	2:B:750:MET:HE1	2.17	0.80
3:C:436:LEU:HD22	4:E:43:HIS:HD2	1.47	0.80
4:D:393:ASP:CG	6:P:53:THR:C	2.49	0.80
5:F:4:HIS:ND1	6:J:586:VAL:HG13	1.97	0.80
6:I:41:LEU:CD2	6:J:242:PHE:CD2	2.64	0.80
6:I:154:ARG:HH11	6:J:246:THR:HB	1.46	0.80
6:I:411:VAL:HG11	6:K:457:PRO:HG3	1.26	0.80
6:J:42:ASN:ND2	6:K:235:LEU:HD22	1.95	0.80
6:J:168:THR:O	6:K:541:SER:OG	1.99	0.80
6:O:168:THR:HB	6:P:538:ALA:N	1.95	0.80
6:P:195:PRO:CD	6:Q:562:TYR:CB	2.56	0.80
5:R:4:HIS:CB	6:V:586:VAL:HG21	2.10	0.80
6:U:419:MET:HE2	6:W:299:ILE:HD12	0.81	0.80
6:U:456:ASN:ND2	6:V:412:ARG:HA	1.75	0.80
6:V:528:ALA:HB1	6:W:283:SER:CB	1.94	0.80
6:V:578:SER:CA	6:W:471:LEU:HD11	2.12	0.80
5:Y:91:THR:HB	5:Y:180:HIS:HE1	1.44	0.80
6:I:256:SER:HA	6:K:33:ALA:HB1	1.61	0.80
6:I:411:VAL:CG1	6:K:333:PRO:HG2	2.11	0.80
6:J:456:ASN:ND2	6:K:412:ARG:HD3	1.97	0.80
5:M:44:GLY:HA2	6:O:400:ALA:O	1.81	0.80
6:O:29:THR:OG1	6:P:609:ARG:CG	2.30	0.80
6:O:154:ARG:NE	6:P:248:GLU:H	1.58	0.80
6:O:456:ASN:HD21	6:P:412:ARG:CB	1.89	0.80
6:P:254:GLY:HA2	6:Q:267:ALA:HB1	1.63	0.80
6:V:622:GLU:HB3	6:W:280:LEU:HD12	0.82	0.80
2:B:954:PRO:CD	4:D:39:SER:HB2	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:5:MET:CE	6:J:494:THR:CB	2.58	0.80
6:I:281:PRO:HD3	6:K:622:GLU:CB	2.11	0.80
6:J:41:LEU:HD13	6:K:239:ALA:CA	2.12	0.80
6:J:297:ALA:HA	6:K:409:ILE:HD11	1.63	0.80
6:J:458:THR:N	6:K:412:ARG:HD3	1.93	0.80
6:J:459:LEU:CD2	6:K:409:ILE:CG2	2.59	0.80
6:O:247:SER:H	6:Q:154:ARG:HH12	1.30	0.80
3:C:1064:TRP:CH2	3:C:1100:LEU:HB2	2.09	0.79
6:I:29:THR:OG1	6:J:609:ARG:HG2	1.80	0.79
6:I:147:ARG:CD	6:Q:100:LYS:HD3	2.09	0.79
6:J:283:SER:HB3	6:J:472:ARG:NH2	1.96	0.79
6:O:239:ALA:CA	6:Q:41:LEU:HD13	2.12	0.79
6:P:168:THR:O	6:Q:541:SER:OG	1.99	0.79
5:S:44:GLY:HA3	6:U:400:ALA:CA	1.82	0.79
6:U:36:LEU:HB3	6:V:253:VAL:HG12	0.82	0.79
6:V:154:ARG:HH12	6:W:247:SER:H	1.30	0.79
6:I:41:LEU:HD13	6:J:239:ALA:CA	2.13	0.79
6:I:122:THR:HG21	6:J:90:ASN:HB3	0.83	0.79
6:I:256:SER:CB	6:K:33:ALA:HB1	2.12	0.79
6:I:412:ARG:CD	6:K:458:THR:H	1.91	0.79
6:P:29:THR:C	6:Q:610:THR:HG23	2.07	0.79
6:V:254:GLY:HA2	6:W:267:ALA:HB1	1.63	0.79
3:C:377:ILE:CG2	3:C:381:VAL:H	1.94	0.79
3:C:983:TYR:O	3:C:1136:ALA:HA	1.82	0.79
5:F:192:THR:C	6:K:364:PRO:CB	2.51	0.79
5:G:5:MET:HE3	6:K:494:THR:HG21	0.83	0.79
6:I:610:THR:CG2	6:K:30:ALA:CA	2.54	0.79
6:J:168:THR:OG1	6:K:537:SER:CB	2.29	0.79
6:J:456:ASN:OD1	6:K:412:ARG:HA	1.63	0.79
6:O:168:THR:HG1	6:P:537:SER:HG	1.26	0.79
6:O:281:PRO:HD3	6:Q:622:GLU:CB	2.11	0.79
5:Y:110:PHE:O	5:Y:272:VAL:HA	1.80	0.79
3:C:313:LYS:C	3:C:1196:ARG:HG3	2.06	0.79
5:G:146:ASN:HB3	5:G:168:PRO:HD3	1.62	0.79
6:I:538:ALA:CA	6:K:168:THR:HB	2.12	0.79
6:O:121:ALA:HB2	6:P:87:PHE:CD2	1.97	0.79
6:P:644:LEU:CB	6:Q:548:LYS:CD	2.43	0.79
6:U:161:LYS:O	6:V:534:SER:CB	2.31	0.79
6:U:412:ARG:HD3	6:W:458:THR:N	1.96	0.79
6:U:541:SER:OG	6:W:168:THR:C	2.25	0.79
6:V:193:ILE:HG22	6:W:562:TYR:CE2	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:459:LEU:CD2	6:W:412:ARG:HH22	1.75	0.79
6:V:459:LEU:HD12	6:W:412:ARG:HB3	1.62	0.79
2:B:376:LEU:CA	3:C:797:ALA:HB2	2.02	0.79
6:I:412:ARG:NH2	6:K:459:LEU:CG	2.32	0.79
6:J:36:LEU:CB	6:K:253:VAL:CG1	2.47	0.79
6:O:87:PHE:CE2	6:Q:121:ALA:HB3	2.17	0.79
6:O:412:ARG:CD	6:Q:458:THR:H	1.92	0.79
6:O:541:SER:OG	6:Q:168:THR:C	2.26	0.79
6:P:154:ARG:HE	6:Q:248:GLU:H	0.80	0.79
6:P:154:ARG:HH12	6:Q:247:SER:H	1.30	0.79
6:P:641:ILE:HG12	6:Q:545:VAL:CG1	2.09	0.79
6:U:411:VAL:CG1	6:W:333:PRO:HG2	2.11	0.79
6:U:548:LYS:HD3	6:W:644:LEU:HB3	1.61	0.79
6:V:459:LEU:HA	6:W:412:ARG:HH11	0.96	0.79
6:I:281:PRO:HD3	6:K:622:GLU:HB2	1.65	0.79
5:L:5:MET:CE	6:P:494:THR:CB	2.59	0.79
5:M:146:ASN:HB3	5:M:168:PRO:HD3	1.62	0.79
6:O:408:ALA:HA	6:Q:298:PHE:HE2	1.48	0.79
6:O:534:SER:C	6:Q:165:THR:HG22	2.07	0.79
6:O:541:SER:HB3	6:Q:170:LEU:HA	1.63	0.79
6:O:562:TYR:CB	6:Q:195:PRO:CG	2.51	0.79
6:O:612:SER:C	6:Q:160:GLN:HE22	1.69	0.79
6:U:623:LYS:HE3	6:V:270:ASP:OD2	1.82	0.79
2:B:952:PRO:O	4:D:35:ARG:CZ	2.25	0.79
4:D:388:PRO:C	6:P:54:SER:HB2	2.07	0.79
6:I:121:ALA:HB3	6:J:87:PHE:CE2	2.18	0.79
6:I:283:SER:HB3	6:K:529:SER:N	1.96	0.79
6:I:458:THR:H	6:J:412:ARG:CD	1.90	0.79
5:L:44:GLY:HA2	6:Q:400:ALA:HA	0.93	0.79
6:O:36:LEU:CA	6:P:253:VAL:HG12	2.13	0.79
6:O:256:SER:CB	6:Q:33:ALA:HB1	2.13	0.79
6:P:195:PRO:CG	6:Q:562:TYR:CB	2.59	0.79
5:R:5:MET:CE	6:V:494:THR:CB	2.59	0.79
6:U:87:PHE:CE1	6:W:121:ALA:CB	2.58	0.79
6:U:239:ALA:CA	6:W:41:LEU:HD13	2.11	0.79
6:U:256:SER:CB	6:W:33:ALA:HB1	2.13	0.79
6:U:472:ARG:HD3	6:W:530:ARG:CB	2.13	0.79
4:D:46:ILE:CG2	4:D:187:GLN:HG2	2.13	0.79
6:I:165:THR:HA	6:J:534:SER:O	1.83	0.79
6:I:239:ALA:CA	6:K:41:LEU:HD13	2.11	0.79
6:I:411:VAL:HG21	6:K:333:PRO:C	1.95	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:412:ARG:NH2	6:K:459:LEU:HG	1.93	0.79
6:I:456:ASN:HD21	6:J:412:ARG:CB	1.92	0.79
6:I:472:ARG:HD3	6:K:530:ARG:CB	2.12	0.79
6:O:121:ALA:CB	6:P:87:PHE:CE1	2.58	0.79
6:O:121:ALA:HB3	6:P:87:PHE:CE2	2.18	0.79
6:O:161:LYS:O	6:P:534:SER:CB	2.30	0.79
6:O:281:PRO:HD3	6:Q:622:GLU:HB2	1.65	0.79
6:P:44:THR:HB	6:Q:84:LYS:HZ1	0.91	0.79
6:P:147:ARG:CD	6:W:100:LYS:CD	2.61	0.79
6:U:30:ALA:HB3	6:V:610:THR:CA	2.12	0.79
6:U:408:ALA:HA	6:W:298:PHE:HE2	1.48	0.79
6:V:41:LEU:HD13	6:W:239:ALA:CA	2.12	0.79
6:I:161:LYS:NZ	6:J:534:SER:N	2.30	0.79
6:I:412:ARG:HD3	6:K:458:THR:N	1.95	0.79
6:J:161:LYS:CE	6:K:534:SER:H	1.96	0.79
6:J:298:PHE:HB3	6:K:419:MET:H	1.46	0.79
5:N:146:ASN:HB3	5:N:168:PRO:HD3	1.62	0.79
6:P:578:SER:CA	6:Q:471:LEU:HD11	2.12	0.79
6:P:644:LEU:CB	6:Q:548:LYS:HD3	2.06	0.79
6:U:122:THR:HG21	6:V:90:ASN:HB3	0.83	0.79
6:U:298:PHE:CA	6:V:418:ASN:HA	2.13	0.79
6:U:414:GLN:NE2	6:W:459:LEU:HD22	1.88	0.79
6:U:456:ASN:HD21	6:V:412:ARG:CA	1.95	0.79
6:U:458:THR:H	6:V:412:ARG:CD	1.91	0.79
6:U:538:ALA:CA	6:W:168:THR:HB	2.13	0.79
6:U:548:LYS:HZ2	6:W:644:LEU:HD22	0.98	0.79
6:V:161:LYS:CE	6:W:534:SER:H	1.95	0.79
6:I:87:PHE:CZ	6:K:121:ALA:HB2	2.16	0.79
6:J:29:THR:CA	6:K:609:ARG:HG2	2.11	0.79
5:L:4:HIS:ND1	6:P:586:VAL:HG13	1.97	0.79
6:P:161:LYS:O	6:Q:534:SER:OG	2.01	0.79
6:U:36:LEU:O	6:V:253:VAL:HG11	1.83	0.79
6:U:165:THR:HA	6:V:534:SER:O	1.83	0.79
6:J:641:ILE:HG12	6:K:545:VAL:CG1	2.10	0.78
6:O:30:ALA:HB3	6:P:610:THR:CA	2.12	0.78
6:O:300:LYS:NZ	6:P:418:ASN:CB	2.42	0.78
6:O:416:ARG:HB3	6:Q:298:PHE:HE1	1.44	0.78
6:U:256:SER:HG	6:W:34:ILE:C	1.91	0.78
6:I:154:ARG:NE	6:J:247:SER:CA	2.44	0.78
6:I:354:SER:HB3	6:K:295:ARG:HH22	1.49	0.78
6:I:408:ALA:HA	6:K:298:PHE:HE2	1.46	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:32:PRO:HD3	6:P:609:ARG:O	1.83	0.78
6:O:193:ILE:HG22	6:P:562:TYR:CD1	2.14	0.78
6:O:538:ALA:CA	6:Q:168:THR:HB	2.12	0.78
6:P:298:PHE:HB3	6:Q:419:MET:H	1.46	0.78
6:P:459:LEU:CD2	6:Q:409:ILE:CG2	2.59	0.78
5:T:44:GLY:HA2	6:V:400:ALA:HA	0.86	0.78
6:U:33:ALA:HB1	6:V:256:SER:CB	2.12	0.78
6:U:618:THR:C	6:V:281:PRO:HG3	2.08	0.78
6:I:418:ASN:HA	6:K:298:PHE:CD2	2.07	0.78
6:I:541:SER:HB3	6:K:169:MET:C	2.02	0.78
6:U:84:LYS:HE3	6:W:44:THR:OG1	1.61	0.78
6:U:300:LYS:NZ	6:V:418:ASN:CB	2.42	0.78
6:V:30:ALA:N	6:W:610:THR:HG23	1.99	0.78
6:V:619:ASP:CA	6:W:284:VAL:HG21	2.13	0.78
6:X:587:GLY:HA2	5:Y:2:PRO:HG2	1.64	0.78
3:C:799:ASP:HB2	3:C:801:ARG:CZ	2.13	0.78
6:I:66:ASP:CG	6:J:232:ALA:HB1	1.80	0.78
6:I:193:ILE:HG22	6:J:562:TYR:CD1	2.14	0.78
6:J:619:ASP:CA	6:K:284:VAL:HG21	2.13	0.78
6:P:29:THR:CB	6:Q:609:ARG:CD	2.49	0.78
6:P:219:LYS:HG2	6:P:229:ASP:HA	1.66	0.78
5:R:4:HIS:ND1	6:V:586:VAL:HG13	1.98	0.78
6:V:42:ASN:OD1	6:W:84:LYS:HE2	1.82	0.78
2:B:611:PRO:HG2	2:B:614:GLN:HE22	1.48	0.78
6:I:121:ALA:HB2	6:J:87:PHE:CZ	2.19	0.78
5:L:110:PHE:O	5:L:272:VAL:HA	1.81	0.78
5:N:44:GLY:C	6:P:400:ALA:CA	2.35	0.78
6:O:458:THR:CA	6:P:412:ARG:NE	2.29	0.78
6:O:578:SER:CA	6:P:471:LEU:HD11	2.13	0.78
6:P:161:LYS:CE	6:Q:534:SER:H	1.96	0.78
6:P:458:THR:H	6:Q:412:ARG:CD	1.96	0.78
6:U:578:SER:CA	6:V:471:LEU:HD11	2.13	0.78
6:V:459:LEU:HD23	6:W:409:ILE:HG22	1.64	0.78
2:B:882:PRO:HG2	2:B:962:GLN:OE1	1.82	0.78
6:I:219:LYS:HG2	6:I:229:ASP:HA	1.66	0.78
6:J:578:SER:CA	6:K:471:LEU:HD11	2.12	0.78
6:O:270:ASP:OD2	6:Q:623:LYS:HE3	1.84	0.78
6:O:529:SER:C	6:P:472:ARG:HD3	2.07	0.78
6:U:29:THR:OG1	6:V:609:ARG:CG	2.31	0.78
6:U:295:ARG:HH22	6:V:354:SER:HB2	1.47	0.78
6:V:528:ALA:CB	6:W:283:SER:HA	2.01	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:W:606:THR:HG22	6:W:609:ARG:NH2	1.99	0.78
2:B:375:ASN:ND2	3:C:798:VAL:CG2	2.35	0.78
3:C:438:PRO:HG3	4:E:188:THR:HG22	1.65	0.78
3:C:438:PRO:CB	4:E:188:THR:HG21	2.14	0.78
6:I:33:ALA:HB1	6:J:256:SER:CB	2.13	0.78
6:I:36:LEU:O	6:J:253:VAL:HG11	1.84	0.78
6:I:90:ASN:CB	6:K:122:THR:CG2	2.44	0.78
6:I:541:SER:HB3	6:K:170:LEU:HA	1.64	0.78
6:J:36:LEU:HD11	6:K:242:PHE:CZ	2.19	0.78
6:J:295:ARG:NH2	6:K:354:SER:OG	2.17	0.78
6:O:412:ARG:N	6:Q:459:LEU:HD11	1.97	0.78
6:O:548:LYS:HD3	6:Q:644:LEU:HB3	1.62	0.78
6:P:459:LEU:HD11	6:Q:412:ARG:N	1.98	0.78
5:R:4:HIS:CE1	6:V:587:GLY:HA3	2.09	0.78
6:U:29:THR:OG1	6:V:609:ARG:HG2	1.83	0.78
6:U:562:TYR:CE2	6:W:193:ILE:HG22	2.17	0.78
6:W:219:LYS:HG2	6:W:229:ASP:HA	1.66	0.78
1:A:353:ARG:NH2	4:D:129:VAL:HG13	1.99	0.78
2:B:858:VAL:HG23	2:B:861:ARG:NH2	1.97	0.78
3:C:862:GLU:HA	3:C:865:VAL:HG12	1.64	0.78
4:D:184:HIS:CA	4:D:187:GLN:OE1	2.29	0.78
6:I:161:LYS:O	6:J:534:SER:CB	2.31	0.78
6:I:242:PHE:CD2	6:K:36:LEU:HD11	2.18	0.78
6:I:619:ASP:HB2	6:J:284:VAL:CG1	2.05	0.78
6:O:161:LYS:HE3	6:P:533:ASP:CB	2.09	0.78
6:O:169:MET:N	6:P:541:SER:OG	2.16	0.78
6:P:528:ALA:HB1	6:Q:283:SER:CB	1.94	0.78
6:P:622:GLU:CG	6:Q:281:PRO:HD3	2.14	0.78
6:U:270:ASP:OD2	6:W:623:LYS:HE3	1.81	0.78
6:V:154:ARG:HE	6:W:248:GLU:H	0.78	0.78
5:H:44:GLY:C	6:J:400:ALA:CA	2.36	0.78
6:I:36:LEU:CA	6:J:253:VAL:HG12	2.13	0.78
6:I:578:SER:CA	6:J:471:LEU:HD11	2.14	0.78
6:O:242:PHE:HB3	6:Q:36:LEU:HD23	1.60	0.78
6:O:578:SER:HB3	6:P:471:LEU:HD13	1.64	0.78
6:O:619:ASP:HB2	6:P:284:VAL:HG22	1.60	0.78
6:P:33:ALA:HB1	6:Q:256:SER:CB	2.14	0.78
6:P:644:LEU:HB3	6:Q:548:LYS:HD3	1.66	0.78
6:U:121:ALA:HB3	6:V:87:PHE:CE2	2.18	0.78
6:U:161:LYS:NZ	6:V:534:SER:N	2.32	0.78
6:U:219:LYS:HG2	6:U:229:ASP:HA	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:354:SER:HB3	6:W:295:ARG:HH22	1.48	0.78
1:A:790:ARG:C	1:A:790:ARG:HE	1.92	0.78
2:B:954:PRO:HB2	4:D:43:HIS:NE2	1.98	0.78
3:C:792:GLN:CD	4:D:225:ARG:NH1	2.37	0.78
6:I:169:MET:C	6:J:541:SER:HB3	1.99	0.78
6:I:610:THR:HG23	6:K:30:ALA:N	1.95	0.78
6:J:33:ALA:HB1	6:K:256:SER:CB	2.14	0.78
5:L:44:GLY:C	6:Q:400:ALA:CA	2.33	0.78
5:N:131:ARG:HE	6:P:448:PRO:HG2	1.49	0.78
5:R:44:GLY:HA2	6:W:400:ALA:HA	0.94	0.78
6:U:169:MET:N	6:V:541:SER:OG	2.16	0.78
6:U:537:SER:CB	6:W:168:THR:HG1	1.93	0.78
6:V:456:ASN:ND2	6:W:412:ARG:HD3	1.98	0.78
6:V:622:GLU:CG	6:W:281:PRO:HD3	2.13	0.78
2:B:774:LEU:HD12	2:B:774:LEU:C	2.08	0.77
6:I:84:LYS:HZ2	6:K:44:THR:CB	1.86	0.77
6:I:87:PHE:CE2	6:K:121:ALA:HB3	2.18	0.77
6:I:147:ARG:CD	6:Q:100:LYS:CD	2.39	0.77
6:I:412:ARG:HB2	6:K:459:LEU:CB	2.15	0.77
6:J:29:THR:C	6:K:610:THR:HG23	2.07	0.77
6:J:193:ILE:HA	6:K:562:TYR:HE1	1.45	0.77
6:J:622:GLU:CG	6:K:281:PRO:HD3	2.13	0.77
6:O:278:THR:OG1	6:Q:625:ARG:NE	2.17	0.77
6:O:541:SER:HB3	6:Q:169:MET:C	2.05	0.77
5:T:4:HIS:CE1	6:U:587:GLY:HA3	2.08	0.77
6:U:32:PRO:HD3	6:V:609:ARG:O	1.84	0.77
6:U:42:ASN:HD21	6:V:235:LEU:HD22	1.48	0.77
6:U:154:ARG:HH11	6:V:246:THR:HB	1.46	0.77
6:U:242:PHE:CD2	6:W:36:LEU:HD11	2.19	0.77
6:V:82:PHE:CE2	6:W:242:PHE:CZ	2.68	0.77
6:V:219:LYS:HG2	6:V:229:ASP:HA	1.66	0.77
6:X:219:LYS:HG2	6:X:229:ASP:HA	1.66	0.77
4:E:404:VAL:HG12	6:U:49:ARG:HH21	0.62	0.77
6:I:32:PRO:HD3	6:J:609:ARG:O	1.83	0.77
6:I:169:MET:N	6:J:541:SER:OG	2.16	0.77
6:I:409:ILE:HG22	6:K:459:LEU:HD22	1.64	0.77
6:J:169:MET:O	6:K:541:SER:HA	1.84	0.77
6:O:618:THR:C	6:P:281:PRO:HG3	2.09	0.77
6:U:281:PRO:HD3	6:W:622:GLU:HB2	1.65	0.77
6:U:529:SER:C	6:V:472:ARG:HD3	2.06	0.77
2:B:532:ILE:HA	2:B:535:TRP:CE3	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:954:PRO:CB	4:D:39:SER:C	2.56	0.77
6:I:298:PHE:CA	6:J:418:ASN:HA	2.13	0.77
6:O:33:ALA:HB1	6:P:256:SER:CB	2.14	0.77
6:O:41:LEU:HD13	6:P:239:ALA:CA	2.12	0.77
6:O:534:SER:CB	6:Q:165:THR:HG22	1.70	0.77
6:P:619:ASP:CA	6:Q:284:VAL:HG21	2.14	0.77
5:T:194:LEU:CD1	6:V:447:SER:OG	2.33	0.77
6:U:36:LEU:CA	6:V:253:VAL:HG12	2.13	0.77
6:U:168:THR:HG1	6:V:537:SER:HG	1.32	0.77
6:V:161:LYS:O	6:W:534:SER:OG	2.02	0.77
6:V:165:THR:HG23	6:W:534:SER:HB2	0.79	0.77
2:B:437:ARG:HH12	4:D:173:ALA:HB1	1.45	0.77
2:B:452:ARG:NH2	2:B:665:SER:O	2.17	0.77
5:F:44:GLY:CA	6:K:400:ALA:HB1	2.02	0.77
5:H:131:ARG:HE	6:J:448:PRO:HG2	1.48	0.77
6:O:242:PHE:CD2	6:Q:36:LEU:HD11	2.18	0.77
6:O:298:PHE:CA	6:P:418:ASN:HA	2.13	0.77
6:P:298:PHE:CB	6:Q:419:MET:N	2.47	0.77
6:Q:330:GLN:HB3	6:Q:457:PRO:HA	1.67	0.77
6:U:459:LEU:HD13	6:V:414:GLN:CG	2.15	0.77
6:U:530:ARG:CB	6:V:472:ARG:HD3	2.14	0.77
4:E:339:LEU:HD23	6:U:55:VAL:CG2	2.12	0.77
6:I:459:LEU:HG	6:J:412:ARG:HE	1.48	0.77
6:I:534:SER:C	6:K:165:THR:HG22	2.09	0.77
6:J:161:LYS:NZ	6:K:533:ASP:CA	2.41	0.77
6:O:165:THR:HA	6:P:534:SER:O	1.83	0.77
6:P:330:GLN:HB3	6:P:457:PRO:HA	1.66	0.77
6:U:154:ARG:NE	6:V:247:SER:CA	2.43	0.77
6:U:284:VAL:CG1	6:W:619:ASP:HB2	2.09	0.77
6:U:578:SER:HB3	6:V:471:LEU:HD13	1.63	0.77
2:B:309:LEU:CA	2:B:399:ARG:HH12	1.82	0.77
3:C:436:LEU:CD1	4:E:187:GLN:CD	2.49	0.77
3:C:1033:ASP:HB2	3:C:1037:VAL:HB	1.66	0.77
4:D:389:PHE:N	6:P:54:SER:CB	2.39	0.77
6:I:295:ARG:CZ	6:J:354:SER:OG	2.33	0.77
6:I:472:ARG:CD	6:K:529:SER:C	2.58	0.77
6:J:154:ARG:NH1	6:K:247:SER:CA	2.40	0.77
6:J:161:LYS:O	6:K:534:SER:OG	2.01	0.77
6:J:195:PRO:CD	6:K:562:TYR:CB	2.56	0.77
5:M:4:HIS:ND1	6:Q:586:VAL:CG1	2.48	0.77
6:O:36:LEU:O	6:P:253:VAL:HG11	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:242:PHE:CD2	6:Q:41:LEU:CD2	2.67	0.77
6:P:36:LEU:HD11	6:Q:242:PHE:CZ	2.20	0.77
2:B:376:LEU:HB2	4:D:249:LYS:HE3	1.65	0.77
4:D:390:ASN:CG	6:P:53:THR:O	2.26	0.77
4:E:401:ALA:CB	6:U:52:GLY:HA3	2.15	0.77
6:I:412:ARG:H	6:K:459:LEU:HD11	1.50	0.77
6:I:562:TYR:CB	6:K:195:PRO:CG	2.51	0.77
6:J:169:MET:O	6:K:541:SER:OG	1.93	0.77
6:O:409:ILE:HG22	6:Q:459:LEU:HD22	1.63	0.77
6:O:641:ILE:HG12	6:P:545:VAL:CG2	2.14	0.77
6:P:36:LEU:HD11	6:Q:242:PHE:CE2	2.20	0.77
6:P:456:ASN:ND2	6:Q:412:ARG:HD3	2.00	0.77
5:R:194:LEU:CD1	6:W:447:SER:OG	2.33	0.77
6:U:278:THR:OG1	6:W:625:ARG:NE	2.18	0.77
6:U:330:GLN:HB3	6:U:457:PRO:HA	1.67	0.77
6:V:36:LEU:HD11	6:W:242:PHE:CZ	2.19	0.77
6:V:121:ALA:CB	6:W:87:PHE:CE1	2.57	0.77
6:V:644:LEU:HD22	6:W:548:LYS:HZ2	0.98	0.77
5:H:231:HIS:HA	5:H:234:ARG:HB2	1.67	0.77
6:I:242:PHE:CD2	6:K:41:LEU:CD2	2.67	0.77
6:J:459:LEU:HD11	6:K:412:ARG:N	1.98	0.77
6:O:154:ARG:HH11	6:P:246:THR:C	1.93	0.77
6:O:161:LYS:NZ	6:P:534:SER:N	2.30	0.77
6:O:459:LEU:HG	6:P:412:ARG:NH2	1.96	0.77
6:O:548:LYS:HZ2	6:Q:644:LEU:CD2	1.67	0.77
6:P:144:ASN:CA	6:W:100:LYS:NZ	2.48	0.77
6:V:459:LEU:CD2	6:W:409:ILE:CG2	2.60	0.77
3:C:697:MET:SD	3:C:744:PRO:HA	2.25	0.77
4:D:390:ASN:HA	6:P:55:VAL:HG23	1.65	0.77
5:G:4:HIS:ND1	6:K:586:VAL:CG1	2.47	0.77
6:I:529:SER:C	6:J:472:ARG:HD3	2.07	0.77
6:J:36:LEU:HD11	6:K:242:PHE:CE1	2.20	0.77
6:J:456:ASN:HD21	6:K:412:ARG:CA	1.91	0.77
5:N:194:LEU:CD1	6:P:447:SER:OG	2.33	0.77
6:O:537:SER:HB2	6:Q:169:MET:N	2.00	0.77
5:S:5:MET:HE3	6:W:494:THR:HG21	0.82	0.77
6:V:295:ARG:NH2	6:W:354:SER:OG	2.18	0.77
5:F:44:GLY:HA2	6:K:400:ALA:HA	0.91	0.77
5:H:193:GLY:HA3	6:J:364:PRO:HB2	1.51	0.77
6:I:270:ASP:OD2	6:K:623:LYS:HE3	1.83	0.77
6:I:412:ARG:NE	6:K:459:LEU:CB	2.46	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:30:ALA:N	6:Q:610:THR:HG23	1.99	0.77
5:T:194:LEU:CB	6:V:447:SER:OG	2.33	0.77
6:U:242:PHE:CD2	6:W:41:LEU:CD2	2.66	0.77
6:V:33:ALA:HB1	6:W:256:SER:CB	2.15	0.77
2:B:376:LEU:CG	4:D:249:LYS:CE	2.63	0.76
3:C:480:LEU:HD11	3:C:754:GLU:HG2	1.67	0.76
4:D:389:PHE:HB2	6:P:54:SER:CB	2.12	0.76
4:E:336:ALA:CA	6:U:55:VAL:HB	2.13	0.76
6:J:43:PRO:HA	6:J:44:THR:HB	1.67	0.76
6:J:625:ARG:CZ	6:K:278:THR:OG1	2.33	0.76
6:O:280:LEU:CA	6:Q:622:GLU:HG2	2.09	0.76
6:P:147:ARG:CD	6:W:100:LYS:HZ1	1.96	0.76
6:Q:219:LYS:HG2	6:Q:229:ASP:HA	1.66	0.76
6:U:121:ALA:HB2	6:V:87:PHE:CZ	2.19	0.76
6:U:160:GLN:NE2	6:V:612:SER:HB2	1.67	0.76
6:V:330:GLN:HB3	6:V:457:PRO:HA	1.66	0.76
6:X:43:PRO:HA	6:X:44:THR:HB	1.67	0.76
2:B:309:LEU:CA	2:B:399:ARG:HH11	1.82	0.76
2:B:376:LEU:HD13	4:D:249:LYS:HE3	1.55	0.76
2:B:952:PRO:O	4:D:35:ARG:NH2	2.19	0.76
4:E:400:THR:HB	6:U:52:GLY:C	2.10	0.76
4:E:401:ALA:HB2	6:U:52:GLY:HA2	1.26	0.76
6:J:298:PHE:HE2	6:K:408:ALA:HA	1.50	0.76
5:L:231:HIS:HA	5:L:234:ARG:HB2	1.67	0.76
6:O:42:ASN:HD21	6:P:235:LEU:HD22	1.48	0.76
6:O:121:ALA:HB2	6:P:87:PHE:CZ	2.19	0.76
6:O:419:MET:HE2	6:Q:299:ILE:HD12	0.80	0.76
6:P:295:ARG:NH2	6:Q:354:SER:OG	2.18	0.76
6:U:412:ARG:HB2	6:W:459:LEU:CB	2.15	0.76
6:U:412:ARG:NE	6:W:459:LEU:CB	2.44	0.76
6:U:537:SER:HB2	6:W:169:MET:N	2.00	0.76
6:V:459:LEU:HD11	6:W:412:ARG:N	1.99	0.76
1:A:377:ARG:HH11	6:I:57:THR:HG22	1.48	0.76
3:C:792:GLN:HE22	4:D:225:ARG:HH12	1.29	0.76
6:I:44:THR:OG1	6:J:84:LYS:HE3	1.63	0.76
6:I:298:PHE:CE1	6:J:416:ARG:O	2.37	0.76
6:I:416:ARG:HB3	6:K:298:PHE:HE1	1.48	0.76
6:I:530:ARG:CB	6:J:472:ARG:HD3	2.13	0.76
6:J:42:ASN:OD1	6:K:84:LYS:HE2	1.83	0.76
6:J:71:TYR:CD2	6:J:138:SER:HA	2.21	0.76
6:O:44:THR:CG2	6:P:84:LYS:HZ1	1.84	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:44:THR:OG1	6:P:84:LYS:HE3	1.63	0.76
3:C:386:GLU:OE2	3:C:1195:TYR:OH	2.02	0.76
4:E:339:LEU:CD2	6:U:55:VAL:HG21	2.12	0.76
6:I:170:LEU:CA	6:J:541:SER:HB3	2.16	0.76
6:I:618:THR:C	6:J:281:PRO:HG3	2.09	0.76
6:J:160:GLN:NE2	6:K:612:SER:HB2	1.68	0.76
6:K:606:THR:HG22	6:K:609:ARG:NH2	1.99	0.76
6:P:41:LEU:HD13	6:Q:239:ALA:CA	2.13	0.76
6:U:534:SER:N	6:W:161:LYS:HE2	2.00	0.76
6:V:161:LYS:NZ	6:W:534:SER:N	2.33	0.76
4:D:389:PHE:N	6:P:55:VAL:N	2.07	0.76
6:I:412:ARG:CG	6:K:456:ASN:HD21	1.83	0.76
6:Q:606:THR:HG22	6:Q:609:ARG:NH2	1.99	0.76
5:S:4:HIS:ND1	6:W:586:VAL:CG1	2.47	0.76
6:U:71:TYR:CD2	6:U:138:SER:HA	2.21	0.76
6:U:297:ALA:O	6:V:409:ILE:CD1	2.30	0.76
6:U:641:ILE:HG12	6:V:545:VAL:CG2	2.15	0.76
1:A:388:TYR:HA	1:A:789:ARG:NH2	2.00	0.76
2:B:310:LYS:HG3	2:B:399:ARG:NH1	2.01	0.76
6:K:219:LYS:HG2	6:K:229:ASP:HA	1.66	0.76
6:O:468:PRO:HG3	6:O:503:ALA:HB3	1.67	0.76
6:P:154:ARG:NH1	6:Q:247:SER:CA	2.41	0.76
5:T:4:HIS:NE2	6:U:586:VAL:CG2	2.23	0.76
6:U:165:THR:CA	6:V:537:SER:OG	2.34	0.76
6:U:472:ARG:CD	6:W:529:SER:C	2.57	0.76
6:U:625:ARG:HH12	6:V:277:ASP:H	1.33	0.76
6:V:154:ARG:HH11	6:W:246:THR:C	1.94	0.76
1:A:25:LEU:HD23	1:A:113:THR:HB	1.67	0.76
2:B:409:MET:HG3	2:B:445:PHE:O	1.85	0.76
3:C:481:ARG:HH11	3:C:530:LYS:HB2	1.50	0.76
3:C:792:GLN:HE22	4:D:225:ARG:NH1	1.81	0.76
4:D:390:ASN:CA	6:P:55:VAL:HG23	2.15	0.76
5:G:231:HIS:HA	5:G:234:ARG:HB2	1.67	0.76
6:O:530:ARG:CB	6:P:472:ARG:HD3	2.14	0.76
6:P:29:THR:CA	6:Q:609:ARG:CG	2.59	0.76
6:P:298:PHE:HE2	6:Q:408:ALA:HA	1.50	0.76
6:U:41:LEU:HD22	6:V:242:PHE:HE2	1.39	0.76
6:U:468:PRO:HG3	6:U:503:ALA:HB3	1.67	0.76
6:I:42:ASN:HD21	6:J:235:LEU:HD22	1.49	0.76
6:I:533:ASP:CB	6:K:161:LYS:HE3	2.15	0.76
6:J:578:SER:HB3	6:K:471:LEU:HD13	1.57	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:625:ARG:HH12	6:P:277:ASP:H	1.34	0.76
6:P:121:ALA:CB	6:Q:87:PHE:CE1	2.57	0.76
6:P:459:LEU:CD2	6:Q:412:ARG:HH22	1.76	0.76
6:P:459:LEU:HD23	6:Q:409:ILE:HG22	1.64	0.76
6:U:246:THR:HB	6:W:154:ARG:HH11	1.47	0.76
6:V:169:MET:O	6:W:541:SER:HA	1.86	0.76
2:B:407:ARG:HG3	4:D:184:HIS:HE1	1.36	0.76
4:D:390:ASN:HB3	6:P:50:PRO:CG	2.12	0.76
6:I:193:ILE:C	6:J:562:TYR:CZ	2.62	0.76
6:J:219:LYS:HG2	6:J:229:ASP:HA	1.66	0.76
5:N:5:MET:HE2	6:O:494:THR:CG2	2.01	0.76
6:O:482:ASP:CG	6:Q:530:ARG:NH2	2.44	0.76
6:P:42:ASN:OD1	6:Q:84:LYS:HE2	1.84	0.76
6:P:43:PRO:HA	6:P:44:THR:HB	1.68	0.76
6:P:193:ILE:HG22	6:Q:562:TYR:CE2	2.14	0.76
5:R:231:HIS:HA	5:R:234:ARG:HB2	1.66	0.76
6:U:36:LEU:CG	6:V:253:VAL:CG1	2.64	0.76
6:U:295:ARG:CZ	6:V:354:SER:OG	2.32	0.76
6:V:298:PHE:CE1	6:W:416:ARG:HB3	2.20	0.76
6:V:458:THR:HA	6:W:412:ARG:HG2	1.67	0.76
1:A:377:ARG:CZ	6:I:57:THR:HG23	2.16	0.76
2:B:645:HIS:CD2	2:B:703:THR:HB	2.21	0.76
4:E:401:ALA:HB2	6:U:51:VAL:O	1.85	0.76
5:F:194:LEU:CD1	6:K:447:SER:OG	2.33	0.76
6:I:284:VAL:CG1	6:K:619:ASP:HB2	2.10	0.76
6:I:330:GLN:HB3	6:I:457:PRO:HA	1.66	0.76
6:J:458:THR:HA	6:K:412:ARG:HG2	1.68	0.76
6:J:644:LEU:HD22	6:K:548:LYS:HZ2	0.93	0.76
5:L:194:LEU:CD1	6:Q:447:SER:OG	2.33	0.76
6:O:297:ALA:O	6:P:409:ILE:CD1	2.29	0.76
6:O:411:VAL:HG21	6:Q:333:PRO:C	1.96	0.76
6:O:459:LEU:HD13	6:P:414:GLN:CG	2.15	0.76
6:O:534:SER:CB	6:Q:161:LYS:HD3	2.16	0.76
6:O:562:TYR:CE2	6:Q:193:ILE:HG22	2.17	0.76
6:P:625:ARG:CZ	6:Q:278:THR:OG1	2.33	0.76
6:X:468:PRO:HG3	6:X:503:ALA:HB3	1.68	0.76
1:A:377:ARG:NE	6:I:57:THR:CG2	2.48	0.75
1:A:428:THR:HG22	1:A:710:ILE:HD12	1.67	0.75
6:I:541:SER:OG	6:K:168:THR:C	2.27	0.75
6:I:625:ARG:HH12	6:J:277:ASP:H	1.33	0.75
6:K:468:PRO:HG3	6:K:503:ALA:HB3	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:84:LYS:HE3	6:Q:44:THR:OG1	1.59	0.75
6:O:246:THR:C	6:Q:154:ARG:HH11	1.94	0.75
6:O:295:ARG:CZ	6:P:354:SER:OG	2.33	0.75
6:O:412:ARG:HB2	6:Q:459:LEU:CB	2.15	0.75
6:P:459:LEU:CA	6:Q:412:ARG:HH11	1.75	0.75
6:U:170:LEU:CA	6:V:541:SER:HB3	2.15	0.75
6:U:459:LEU:HD23	6:V:412:ARG:HH22	0.94	0.75
6:V:36:LEU:HD11	6:W:242:PHE:CE1	2.20	0.75
6:V:43:PRO:HA	6:V:44:THR:HB	1.67	0.75
6:X:71:TYR:CD2	6:X:138:SER:HA	2.22	0.75
6:I:278:THR:OG1	6:K:625:ARG:NE	2.19	0.75
6:J:298:PHE:CB	6:K:419:MET:N	2.48	0.75
5:N:4:HIS:ND1	6:O:586:VAL:CG2	2.45	0.75
6:O:66:ASP:CG	6:P:232:ALA:HB1	1.80	0.75
6:P:528:ALA:HB2	6:Q:283:SER:O	1.85	0.75
5:T:131:ARG:HE	6:V:448:PRO:HG2	1.49	0.75
6:U:529:SER:N	6:V:283:SER:HB3	2.02	0.75
6:V:71:TYR:CD2	6:V:138:SER:HA	2.21	0.75
6:V:529:SER:H	6:W:283:SER:CA	1.99	0.75
6:V:622:GLU:CG	6:W:280:LEU:HA	2.16	0.75
1:A:1046:GLN:HE22	1:A:1047:GLN:HG2	1.51	0.75
5:H:4:HIS:NE2	6:I:586:VAL:CG2	2.23	0.75
6:I:154:ARG:HH11	6:J:246:THR:C	1.92	0.75
6:I:471:LEU:HD13	6:K:578:SER:HB3	1.61	0.75
6:I:537:SER:HB2	6:K:169:MET:N	2.00	0.75
6:J:36:LEU:HD11	6:K:242:PHE:CE2	2.21	0.75
6:J:529:SER:H	6:K:283:SER:CA	1.99	0.75
5:N:231:HIS:HA	5:N:234:ARG:HB2	1.68	0.75
6:P:161:LYS:CE	6:Q:534:SER:N	2.50	0.75
6:U:161:LYS:HD3	6:V:534:SER:CB	2.16	0.75
6:U:408:ALA:HA	6:W:298:PHE:CE2	2.22	0.75
6:U:644:LEU:HA	6:V:548:LYS:HE3	1.68	0.75
6:V:295:ARG:HH22	6:W:354:SER:HB3	1.50	0.75
6:V:528:ALA:HB2	6:W:283:SER:O	1.85	0.75
6:V:625:ARG:CZ	6:W:278:THR:OG1	2.34	0.75
3:C:152:MET:HE1	3:C:313:LYS:HE3	1.66	0.75
3:C:156:ALA:HA	3:C:170:LEU:HA	1.69	0.75
6:I:165:THR:CA	6:J:537:SER:OG	2.33	0.75
6:I:408:ALA:HA	6:K:298:PHE:CE2	2.21	0.75
6:I:459:LEU:HD23	6:J:412:ARG:HH22	0.94	0.75
6:J:298:PHE:CA	6:K:418:ASN:HA	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:191:LYS:C	6:P:364:PRO:HB3	2.11	0.75
6:O:170:LEU:CA	6:P:541:SER:HB3	2.14	0.75
6:O:408:ALA:HA	6:Q:298:PHE:CE2	2.21	0.75
6:O:459:LEU:HG	6:P:412:ARG:HE	1.50	0.75
6:O:534:SER:N	6:Q:161:LYS:HE2	2.01	0.75
6:P:71:TYR:CD2	6:P:138:SER:HA	2.22	0.75
6:V:459:LEU:CA	6:W:412:ARG:HH11	1.76	0.75
6:V:644:LEU:HB3	6:W:548:LYS:HD3	1.67	0.75
6:W:330:GLN:HB3	6:W:457:PRO:HA	1.67	0.75
2:B:379:GLY:N	3:C:798:VAL:CG1	1.83	0.75
6:I:247:SER:H	6:K:154:ARG:HH12	1.30	0.75
6:I:459:LEU:HD12	6:J:412:ARG:HB3	1.67	0.75
6:I:468:PRO:HG3	6:I:503:ALA:HB3	1.67	0.75
6:J:154:ARG:NE	6:K:247:SER:CA	2.46	0.75
5:N:4:HIS:NE2	6:O:586:VAL:CG2	2.23	0.75
6:P:169:MET:O	6:Q:541:SER:OG	1.93	0.75
6:P:468:PRO:HG3	6:P:503:ALA:HB3	1.67	0.75
5:T:4:HIS:ND1	6:U:586:VAL:CG2	2.45	0.75
6:U:247:SER:CA	6:W:154:ARG:NE	2.47	0.75
6:U:459:LEU:HD12	6:V:412:ARG:HB3	1.67	0.75
6:V:169:MET:N	6:W:537:SER:HB2	2.02	0.75
6:V:195:PRO:CD	6:W:562:TYR:CB	2.56	0.75
6:W:318:LYS:HD2	6:W:326:THR:HB	1.69	0.75
6:W:468:PRO:HG3	6:W:503:ALA:HB3	1.69	0.75
5:F:231:HIS:HA	5:F:234:ARG:HB2	1.67	0.75
6:I:612:SER:C	6:K:160:GLN:HE22	1.69	0.75
6:J:161:LYS:NZ	6:K:534:SER:N	2.33	0.75
6:O:71:TYR:CD2	6:O:138:SER:HA	2.21	0.75
6:O:644:LEU:CD2	6:P:548:LYS:HZ2	1.66	0.75
5:R:44:GLY:C	6:W:400:ALA:CA	2.32	0.75
6:V:44:THR:OG1	6:W:84:LYS:HE3	1.58	0.75
2:B:858:VAL:HG23	2:B:861:ARG:HH21	1.52	0.75
5:H:191:LYS:C	6:J:364:PRO:HB3	2.12	0.75
6:J:298:PHE:CE1	6:K:416:ARG:HB3	2.21	0.75
6:J:630:LEU:HD13	6:K:275:GLU:CB	2.16	0.75
6:O:161:LYS:HD3	6:P:534:SER:CB	2.15	0.75
6:O:219:LYS:HG2	6:O:229:ASP:HA	1.67	0.75
6:O:471:LEU:HD11	6:Q:578:SER:CA	2.17	0.75
6:P:36:LEU:HD11	6:Q:242:PHE:CE1	2.21	0.75
6:V:640:GLN:NE2	6:W:545:VAL:HG13	1.87	0.75
2:B:376:LEU:CD1	3:C:795:ASP:CG	2.59	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:H:194:LEU:CB	6:J:447:SER:OG	2.35	0.75
6:I:66:ASP:HB2	6:J:232:ALA:HB1	1.08	0.75
6:I:71:TYR:CD2	6:I:138:SER:HA	2.21	0.75
6:I:297:ALA:HA	6:J:409:ILE:HD13	1.69	0.75
6:I:534:SER:CB	6:K:161:LYS:HD3	2.16	0.75
6:J:154:ARG:HH11	6:K:246:THR:C	1.94	0.75
6:O:161:LYS:HE2	6:P:533:ASP:C	2.11	0.75
6:O:354:SER:HB3	6:Q:295:ARG:HH22	1.49	0.75
6:P:147:ARG:CG	6:W:100:LYS:HD3	2.11	0.75
6:P:169:MET:O	6:Q:541:SER:HA	1.84	0.75
6:U:534:SER:CB	6:W:161:LYS:HD3	2.17	0.75
6:V:161:LYS:HE3	6:W:533:ASP:CG	2.00	0.75
6:V:298:PHE:HB3	6:W:419:MET:H	1.47	0.75
1:A:377:ARG:NE	6:I:57:THR:HG21	2.02	0.75
3:C:715:VAL:HG21	3:C:726:ARG:CD	2.15	0.75
4:E:335:ALA:C	6:U:55:VAL:C	2.55	0.75
4:E:339:LEU:HB3	6:U:55:VAL:CG2	2.17	0.75
5:H:194:LEU:CD1	6:J:447:SER:OG	2.33	0.75
6:I:459:LEU:HD13	6:J:414:GLN:CG	2.16	0.75
6:J:29:THR:CA	6:K:609:ARG:CG	2.59	0.75
6:J:330:GLN:HB3	6:J:457:PRO:HA	1.68	0.75
6:J:528:ALA:HB2	6:K:283:SER:O	1.85	0.75
6:O:409:ILE:CD1	6:Q:297:ALA:O	2.34	0.75
6:Q:71:TYR:CD2	6:Q:138:SER:HA	2.22	0.75
5:S:231:HIS:HA	5:S:234:ARG:HB2	1.67	0.75
6:I:299:ILE:HD13	6:J:419:MET:CE	2.13	0.74
6:J:418:ASN:CG	6:J:419:MET:N	2.45	0.74
5:M:231:HIS:HA	5:M:234:ARG:HB2	1.67	0.74
6:O:161:LYS:HE2	6:P:534:SER:N	2.02	0.74
6:O:299:ILE:HD12	6:P:419:MET:HE2	0.75	0.74
6:O:459:LEU:HD12	6:P:412:ARG:HB2	1.33	0.74
6:O:459:LEU:HD12	6:P:412:ARG:HB3	1.66	0.74
6:P:529:SER:H	6:Q:283:SER:CA	1.99	0.74
5:T:44:GLY:C	6:V:400:ALA:CA	2.36	0.74
6:U:121:ALA:CB	6:V:87:PHE:CE1	2.59	0.74
6:U:154:ARG:HH11	6:V:246:THR:C	1.94	0.74
6:W:71:TYR:CD2	6:W:138:SER:HA	2.21	0.74
2:B:353:GLN:HE22	3:C:1020:ILE:CD1	1.99	0.74
2:B:397:HIS:CB	2:B:400:GLU:OE2	2.35	0.74
5:H:44:GLY:HA2	6:J:400:ALA:HA	0.86	0.74
6:J:161:LYS:CE	6:K:534:SER:N	2.50	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:644:LEU:HB3	6:K:548:LYS:HD3	1.65	0.74
5:N:194:LEU:CB	6:P:447:SER:OG	2.35	0.74
6:O:622:GLU:OE1	6:P:281:PRO:HD3	1.87	0.74
6:Q:468:PRO:HG3	6:Q:503:ALA:HB3	1.69	0.74
5:S:44:GLY:C	6:U:400:ALA:CA	2.41	0.74
6:U:123:ALA:O	6:U:127:LEU:HG	1.87	0.74
6:U:161:LYS:HE2	6:V:533:ASP:C	2.12	0.74
6:U:193:ILE:HG21	6:V:562:TYR:OH	1.87	0.74
6:V:468:PRO:HG3	6:V:503:ALA:HB3	1.67	0.74
6:V:619:ASP:HB2	6:W:284:VAL:CB	2.17	0.74
1:A:50:ASN:HA	1:A:82:ARG:HH12	1.53	0.74
5:G:44:GLY:O	6:I:400:ALA:CB	2.36	0.74
6:J:29:THR:HB	6:K:609:ARG:HG3	1.68	0.74
6:J:154:ARG:HH12	6:K:247:SER:H	1.29	0.74
6:J:169:MET:N	6:K:537:SER:HB2	2.02	0.74
6:O:32:PRO:CD	6:P:609:ARG:O	2.36	0.74
6:P:147:ARG:CG	6:W:100:LYS:CD	2.65	0.74
6:P:458:THR:HA	6:Q:412:ARG:HG2	1.68	0.74
6:U:246:THR:C	6:W:154:ARG:HH11	1.94	0.74
6:V:36:LEU:HD11	6:W:242:PHE:CE2	2.21	0.74
6:I:160:GLN:NE2	6:J:612:SER:HB2	1.67	0.74
6:I:161:LYS:HE2	6:J:533:ASP:C	2.11	0.74
6:I:161:LYS:HD3	6:J:534:SER:CB	2.16	0.74
6:I:482:ASP:CG	6:K:530:ARG:NH2	2.44	0.74
6:I:545:VAL:HG12	6:K:640:GLN:HE22	1.18	0.74
6:I:641:ILE:HG12	6:J:545:VAL:CG2	2.16	0.74
6:J:640:GLN:NE2	6:K:545:VAL:HG13	1.87	0.74
6:K:71:TYR:CD2	6:K:138:SER:HA	2.22	0.74
6:O:36:LEU:CG	6:P:253:VAL:CG1	2.65	0.74
6:O:412:ARG:NE	6:Q:459:LEU:CB	2.45	0.74
6:P:298:PHE:CA	6:Q:418:ASN:HA	2.17	0.74
5:T:231:HIS:HA	5:T:234:ARG:HB2	1.68	0.74
6:V:298:PHE:CA	6:W:418:ASN:HA	2.17	0.74
5:Y:231:HIS:HA	5:Y:234:ARG:HB2	1.68	0.74
1:A:516:MET:HB2	1:A:551:ILE:HG13	1.70	0.74
2:B:383:ALA:O	2:B:384:MET:HG3	1.86	0.74
6:I:193:ILE:HG21	6:J:562:TYR:OH	1.87	0.74
6:I:283:SER:CA	6:K:529:SER:H	2.01	0.74
6:J:622:GLU:HB3	6:K:280:LEU:HD12	0.81	0.74
6:O:193:ILE:HG21	6:P:562:TYR:OH	1.85	0.74
6:O:412:ARG:HG2	6:Q:458:THR:HA	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:298:PHE:CE1	6:Q:416:ARG:HB3	2.22	0.74
5:T:194:LEU:HD13	6:V:447:SER:OG	1.87	0.74
6:U:283:SER:CA	6:W:529:SER:H	2.00	0.74
6:U:283:SER:HB3	6:W:528:ALA:C	2.13	0.74
6:U:412:ARG:HG2	6:W:458:THR:HA	1.70	0.74
6:V:161:LYS:CE	6:W:534:SER:N	2.50	0.74
6:V:456:ASN:HD21	6:W:412:ARG:CG	1.93	0.74
2:B:956:HIS:CD2	4:D:43:HIS:ND1	2.46	0.74
5:F:44:GLY:HA3	6:K:400:ALA:C	1.90	0.74
6:I:36:LEU:CG	6:J:253:VAL:CG1	2.64	0.74
6:J:123:ALA:O	6:J:127:LEU:HG	1.87	0.74
5:M:44:GLY:C	6:O:400:ALA:CA	2.42	0.74
6:O:283:SER:CA	6:Q:529:SER:H	2.00	0.74
6:O:299:ILE:HD13	6:P:419:MET:CE	2.14	0.74
6:O:529:SER:N	6:P:283:SER:HB3	2.02	0.74
6:P:161:LYS:NZ	6:Q:533:ASP:CA	2.41	0.74
6:U:281:PRO:HD3	6:W:622:GLU:OE1	1.87	0.74
6:U:541:SER:HB3	6:W:169:MET:C	2.03	0.74
6:V:333:PRO:O	6:W:411:VAL:HG11	1.88	0.74
2:B:404:MET:CB	4:D:46:ILE:CD1	2.64	0.74
3:C:381:VAL:HG11	3:C:439:THR:CB	2.16	0.74
3:C:383:ALA:O	3:C:1197:TYR:CE2	2.40	0.74
4:D:389:PHE:HB2	6:P:54:SER:CA	2.06	0.74
5:H:194:LEU:HD13	6:J:447:SER:OG	1.88	0.74
6:J:82:PHE:CE2	6:K:242:PHE:CZ	2.69	0.74
6:J:295:ARG:NH1	6:J:298:PHE:HB2	2.03	0.74
6:J:295:ARG:HH22	6:K:354:SER:HB3	1.50	0.74
6:J:468:PRO:HG3	6:J:503:ALA:HB3	1.69	0.74
5:L:4:HIS:CE1	6:P:587:GLY:HA3	2.09	0.74
6:O:412:ARG:HB2	6:Q:459:LEU:HD12	1.28	0.74
6:O:533:ASP:OD1	6:Q:161:LYS:HG3	1.85	0.74
5:S:44:GLY:O	6:U:400:ALA:CB	2.35	0.74
5:T:194:LEU:HB2	6:V:447:SER:OG	1.87	0.74
6:U:242:PHE:HB3	6:W:36:LEU:HD23	1.60	0.74
3:C:377:ILE:CG2	3:C:381:VAL:C	2.59	0.74
6:I:256:SER:CA	6:K:33:ALA:HB1	2.18	0.74
6:I:471:LEU:HD11	6:K:578:SER:CA	2.17	0.74
6:I:548:LYS:HZ1	6:K:644:LEU:HD23	1.48	0.74
6:J:619:ASP:HB2	6:K:284:VAL:CB	2.18	0.74
6:K:123:ALA:O	6:K:127:LEU:HG	1.88	0.74
6:K:330:GLN:HB3	6:K:457:PRO:HA	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:165:THR:CA	6:P:537:SER:OG	2.33	0.74
6:P:295:ARG:NH1	6:P:298:PHE:HB2	2.02	0.74
6:P:459:LEU:HD11	6:Q:412:ARG:H	1.53	0.74
5:S:4:HIS:NE2	6:W:586:VAL:CG2	2.26	0.74
6:V:298:PHE:CB	6:W:419:MET:N	2.49	0.74
6:V:530:ARG:CB	6:W:472:ARG:HD3	2.18	0.74
4:E:335:ALA:O	6:U:55:VAL:HB	1.88	0.74
5:H:2:PRO:CG	6:I:587:GLY:HA2	2.08	0.74
6:I:30:ALA:CB	6:J:610:THR:CB	2.62	0.74
5:L:275:SER:O	5:L:276:ASP:O	2.06	0.74
6:O:281:PRO:HD3	6:Q:622:GLU:OE1	1.87	0.74
6:O:545:VAL:CG2	6:Q:641:ILE:HG12	2.18	0.74
6:P:36:LEU:CB	6:Q:253:VAL:CG1	2.47	0.74
6:P:169:MET:N	6:Q:537:SER:HB2	2.03	0.74
6:P:644:LEU:HD22	6:Q:548:LYS:HZ2	0.92	0.74
6:U:256:SER:CA	6:W:33:ALA:HB1	2.17	0.74
6:U:459:LEU:HG	6:V:412:ARG:HE	1.52	0.74
5:Y:158:LEU:HB2	5:Y:175:PRO:HD2	1.70	0.74
3:C:407:ARG:NH1	4:E:180:VAL:HG21	2.03	0.74
5:H:4:HIS:CB	6:I:586:VAL:HG11	2.18	0.74
6:I:32:PRO:O	6:J:613:LEU:HD23	1.82	0.74
6:I:644:LEU:HD22	6:J:548:LYS:CD	1.93	0.74
5:M:275:SER:O	5:M:276:ASP:O	2.06	0.74
6:O:283:SER:HB3	6:Q:528:ALA:C	2.13	0.74
6:O:412:ARG:HE	6:Q:459:LEU:CB	2.01	0.74
6:O:548:LYS:HZ1	6:Q:644:LEU:HD23	1.49	0.74
6:Q:123:ALA:O	6:Q:127:LEU:HG	1.88	0.74
6:U:154:ARG:HE	6:V:248:GLU:H	0.74	0.74
6:U:482:ASP:CG	6:W:530:ARG:NH2	2.45	0.74
6:V:298:PHE:HE2	6:W:408:ALA:HA	1.53	0.74
4:E:378:PRO:HG3	4:E:385:PRO:HD2	1.70	0.73
5:G:275:SER:O	5:G:276:ASP:O	2.06	0.73
6:I:36:LEU:HD11	6:J:242:PHE:CD2	2.22	0.73
6:I:123:ALA:O	6:I:127:LEU:HG	1.87	0.73
6:I:154:ARG:HD3	6:J:248:GLU:N	2.03	0.73
6:I:548:LYS:HZ2	6:K:644:LEU:CD2	1.67	0.73
6:J:30:ALA:N	6:K:610:THR:HG23	2.01	0.73
6:J:333:PRO:O	6:K:411:VAL:HG11	1.87	0.73
5:N:193:GLY:HA2	6:P:364:PRO:HG3	1.70	0.73
6:O:154:ARG:HE	6:P:248:GLU:H	0.74	0.73
6:O:297:ALA:HA	6:P:409:ILE:HD13	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:295:ARG:HH22	6:Q:354:SER:HB3	1.50	0.73
5:R:29:ARG:NH2	5:R:34:ASN:HD21	1.86	0.73
5:R:275:SER:O	5:R:276:ASP:O	2.06	0.73
5:S:275:SER:O	5:S:276:ASP:O	2.06	0.73
6:U:32:PRO:O	6:V:613:LEU:HD23	1.82	0.73
6:U:32:PRO:CD	6:V:609:ARG:O	2.36	0.73
6:U:84:LYS:CE	6:W:43:PRO:HA	2.18	0.73
6:U:248:GLU:H	6:W:154:ARG:HE	0.75	0.73
6:U:625:ARG:CD	6:V:278:THR:OG1	2.36	0.73
6:V:154:ARG:NE	6:W:247:SER:CA	2.47	0.73
6:V:529:SER:H	6:W:283:SER:HA	1.53	0.73
6:W:123:ALA:O	6:W:127:LEU:HG	1.88	0.73
6:X:123:ALA:O	6:X:127:LEU:HG	1.88	0.73
6:I:318:LYS:HD2	6:I:326:THR:HB	1.70	0.73
6:I:412:ARG:NE	6:K:459:LEU:CG	2.36	0.73
6:I:419:MET:HE3	6:K:496:GLU:OE1	1.88	0.73
6:J:44:THR:HA	6:K:84:LYS:CE	2.14	0.73
6:J:644:LEU:CD2	6:K:548:LYS:HZ2	1.64	0.73
5:M:2:PRO:HG2	6:Q:587:GLY:CA	2.14	0.73
5:N:194:LEU:HD13	6:P:447:SER:OG	1.87	0.73
6:O:318:LYS:HD2	6:O:326:THR:HB	1.69	0.73
6:P:33:ALA:HB1	6:Q:256:SER:HB2	1.68	0.73
6:U:459:LEU:CG	6:V:412:ARG:NE	2.36	0.73
6:V:123:ALA:O	6:V:127:LEU:HG	1.89	0.73
6:V:418:ASN:CG	6:V:419:MET:N	2.46	0.73
5:Y:29:ARG:NH2	5:Y:34:ASN:HD21	1.86	0.73
2:B:409:MET:CE	2:B:443:PRO:C	2.47	0.73
3:C:377:ILE:CG2	3:C:381:VAL:O	2.35	0.73
4:E:125:TYR:CE2	4:E:127:THR:HB	2.23	0.73
6:I:534:SER:N	6:K:161:LYS:HE2	2.02	0.73
6:I:537:SER:CB	6:K:165:THR:O	2.37	0.73
6:J:41:LEU:CD2	6:K:242:PHE:CD2	2.71	0.73
6:O:256:SER:CA	6:Q:33:ALA:HB1	2.17	0.73
6:O:419:MET:HE3	6:Q:496:GLU:OE1	1.88	0.73
6:O:471:LEU:HD13	6:Q:578:SER:HB3	1.61	0.73
6:U:299:ILE:HD12	6:V:419:MET:HE2	0.74	0.73
6:U:641:ILE:CD1	6:V:545:VAL:CG2	2.65	0.73
6:V:318:LYS:HD2	6:V:326:THR:HB	1.69	0.73
2:B:436:LEU:HD12	4:D:175:MET:CB	2.19	0.73
2:B:882:PRO:HG3	2:B:962:GLN:HE22	1.48	0.73
3:C:377:ILE:HG22	3:C:381:VAL:H	1.47	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:339:LEU:HD22	6:U:55:VAL:CB	2.19	0.73
6:I:32:PRO:CD	6:J:609:ARG:O	2.36	0.73
6:I:84:LYS:HE2	6:K:42:ASN:OD1	1.89	0.73
6:I:121:ALA:CB	6:J:87:PHE:CE1	2.59	0.73
6:I:281:PRO:HD3	6:K:622:GLU:OE1	1.88	0.73
6:I:622:GLU:OE1	6:J:281:PRO:HD3	1.87	0.73
5:N:48:ILE:HA	5:N:55:THR:HG22	1.70	0.73
6:O:28:SER:CB	6:P:606:THR:HG22	2.09	0.73
6:O:32:PRO:O	6:P:613:LEU:HD23	1.83	0.73
6:O:330:GLN:HB3	6:O:457:PRO:HA	1.68	0.73
6:O:412:ARG:H	6:Q:459:LEU:HD11	1.52	0.73
6:O:459:LEU:HD23	6:P:412:ARG:HH22	0.92	0.73
6:U:154:ARG:HH11	6:V:246:THR:CB	2.01	0.73
6:U:318:LYS:HD2	6:U:326:THR:HB	1.69	0.73
6:U:412:ARG:CD	6:W:456:ASN:HD21	1.99	0.73
6:U:412:ARG:H	6:W:459:LEU:HD11	1.51	0.73
6:U:456:ASN:HB2	6:V:412:ARG:HA	1.70	0.73
6:V:295:ARG:NH1	6:V:298:PHE:HB2	2.04	0.73
2:B:376:LEU:HD11	3:C:795:ASP:CB	2.18	0.73
2:B:431:THR:CG2	3:C:614:GLN:HE21	1.97	0.73
2:B:959:ARG:HH12	4:D:40:ARG:HG2	1.53	0.73
5:H:275:SER:O	5:H:276:ASP:O	2.06	0.73
6:I:75:ASN:HB3	6:I:78:MET:HB3	1.71	0.73
6:I:548:LYS:HZ2	6:K:644:LEU:HD22	0.91	0.73
6:O:33:ALA:HB3	6:P:256:SER:HA	1.69	0.73
6:O:123:ALA:O	6:O:127:LEU:HG	1.88	0.73
6:O:641:ILE:CD1	6:P:545:VAL:CG2	2.64	0.73
6:U:30:ALA:CA	6:V:610:THR:CG2	2.49	0.73
6:U:562:TYR:HE1	6:W:193:ILE:HA	1.52	0.73
6:X:330:GLN:HB3	6:X:457:PRO:HA	1.71	0.73
4:E:332:PRO:O	6:U:54:SER:CB	2.36	0.73
4:E:401:ALA:HB2	6:U:51:VAL:C	2.14	0.73
6:I:412:ARG:HA	6:K:456:ASN:ND2	1.70	0.73
6:I:417:PHE:HA	6:K:298:PHE:HE2	0.92	0.73
5:N:4:HIS:CB	6:O:586:VAL:HG11	2.19	0.73
5:N:275:SER:O	5:N:276:ASP:O	2.07	0.73
6:O:84:LYS:CE	6:Q:43:PRO:HA	2.18	0.73
6:O:534:SER:HG	6:Q:161:LYS:C	1.96	0.73
6:P:123:ALA:O	6:P:127:LEU:HG	1.88	0.73
6:P:418:ASN:CG	6:P:419:MET:N	2.47	0.73
6:Q:43:PRO:HA	6:Q:44:THR:HB	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:158:LEU:HB2	5:T:175:PRO:HD2	1.71	0.73
6:U:33:ALA:HB3	6:V:256:SER:HA	1.70	0.73
6:U:154:ARG:HH12	6:V:247:SER:H	1.36	0.73
6:V:29:THR:HB	6:W:609:ARG:HG3	1.68	0.73
6:V:459:LEU:HD11	6:W:412:ARG:H	1.53	0.73
6:V:644:LEU:CB	6:W:548:LYS:CD	2.44	0.73
2:B:437:ARG:HH12	4:D:173:ALA:CB	1.96	0.73
2:B:645:HIS:ND1	2:B:700:TRP:CZ3	2.56	0.73
2:B:959:ARG:HH12	4:D:40:ARG:CG	2.02	0.73
3:C:436:LEU:CD1	4:E:187:GLN:OE1	2.36	0.73
5:H:192:THR:C	6:J:364:PRO:CB	2.57	0.73
6:I:195:PRO:HD3	6:J:562:TYR:CD2	2.24	0.73
6:I:529:SER:N	6:J:283:SER:HB3	2.02	0.73
6:O:36:LEU:HD11	6:P:242:PHE:CD2	2.24	0.73
6:P:75:ASN:HB3	6:P:78:MET:HB3	1.71	0.73
6:P:154:ARG:HH11	6:Q:246:THR:C	1.95	0.73
6:U:161:LYS:HE2	6:V:534:SER:N	2.02	0.73
6:U:195:PRO:HD3	6:V:562:TYR:CD2	2.24	0.73
6:U:533:ASP:OD1	6:W:161:LYS:HG3	1.86	0.73
6:U:622:GLU:OE1	6:V:281:PRO:HD3	1.87	0.73
6:U:640:GLN:HE22	6:V:545:VAL:HG12	1.22	0.73
6:V:121:ALA:HB2	6:W:87:PHE:CE2	2.21	0.73
6:V:160:GLN:HE22	6:W:612:SER:C	1.73	0.73
6:V:529:SER:C	6:W:472:ARG:CD	2.58	0.73
6:W:75:ASN:HB3	6:W:78:MET:HB3	1.70	0.73
6:J:154:ARG:HD3	6:K:248:GLU:N	2.03	0.73
5:M:158:LEU:HB2	5:M:175:PRO:HD2	1.70	0.73
6:O:283:SER:HA	6:Q:529:SER:H	1.54	0.73
6:Q:318:LYS:HD2	6:Q:326:THR:HB	1.69	0.73
5:T:275:SER:O	5:T:276:ASP:O	2.07	0.73
6:U:537:SER:CB	6:W:165:THR:O	2.37	0.73
6:U:644:LEU:CD2	6:V:548:LYS:HZ1	1.96	0.73
6:V:30:ALA:HB2	6:W:610:THR:CB	2.19	0.73
6:V:122:THR:CG2	6:W:90:ASN:CB	2.51	0.73
2:B:375:ASN:HB2	2:B:382:SER:HA	1.71	0.73
2:B:951:PRO:HG2	4:D:37:TRP:CZ3	2.24	0.73
6:I:154:ARG:HH11	6:J:246:THR:CB	2.02	0.73
6:I:161:LYS:HZ3	6:J:534:SER:H	1.35	0.73
6:I:625:ARG:CD	6:J:278:THR:OG1	2.36	0.73
5:M:44:GLY:C	6:O:400:ALA:HB2	2.14	0.73
6:O:160:GLN:HE22	6:P:612:SER:C	1.64	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:640:GLN:NE2	6:P:545:VAL:HG13	1.98	0.73
6:P:29:THR:HB	6:Q:609:ARG:HG3	1.68	0.73
6:U:412:ARG:HE	6:W:459:LEU:CB	2.01	0.73
6:U:625:ARG:HD2	6:V:278:THR:OG1	1.89	0.73
4:E:401:ALA:HB2	6:U:52:GLY:N	2.04	0.73
5:F:48:ILE:HA	5:F:55:THR:HG22	1.71	0.73
5:F:194:LEU:HD13	6:K:447:SER:OG	1.88	0.73
5:F:275:SER:O	5:F:276:ASP:O	2.06	0.73
5:H:194:LEU:HB2	6:J:447:SER:OG	1.89	0.73
6:I:641:ILE:CD1	6:J:545:VAL:CG2	2.64	0.73
5:S:158:LEU:HB2	5:S:175:PRO:HD2	1.71	0.73
6:U:160:GLN:NE2	6:V:612:SER:CA	1.85	0.73
6:U:409:ILE:HD11	6:W:297:ALA:CA	2.18	0.73
6:V:295:ARG:HH11	6:W:419:MET:N	1.86	0.73
2:B:880:LEU:C	4:D:31:GLY:C	2.57	0.72
6:I:246:THR:C	6:K:154:ARG:HH11	1.95	0.72
6:I:299:ILE:HD12	6:J:419:MET:HE2	0.75	0.72
6:K:75:ASN:HB3	6:K:78:MET:HB3	1.71	0.72
5:L:158:LEU:HB2	5:L:175:PRO:HD2	1.70	0.72
5:L:194:LEU:HD13	6:Q:447:SER:OG	1.88	0.72
6:O:253:VAL:CG1	6:Q:36:LEU:HD23	2.10	0.72
6:O:418:ASN:CG	6:O:419:MET:N	2.47	0.72
6:U:36:LEU:HD11	6:V:242:PHE:CD2	2.23	0.72
6:U:248:GLU:N	6:W:154:ARG:HD3	2.04	0.72
6:U:299:ILE:HD13	6:V:419:MET:CE	2.14	0.72
6:U:459:LEU:HG	6:V:412:ARG:NH2	1.99	0.72
6:U:471:LEU:HD11	6:W:578:SER:CA	2.18	0.72
6:U:545:VAL:CG2	6:W:641:ILE:HG12	2.19	0.72
3:C:795:ASP:CA	4:D:251:ASN:OD1	2.38	0.72
4:E:257:ALA:HB3	4:E:412:VAL:HA	1.72	0.72
6:I:154:ARG:HE	6:J:248:GLU:H	0.73	0.72
6:I:534:SER:OG	6:K:161:LYS:C	2.32	0.72
6:I:548:LYS:HD3	6:K:644:LEU:HB3	1.62	0.72
6:I:625:ARG:HD2	6:J:278:THR:OG1	1.89	0.72
6:J:318:LYS:HD2	6:J:326:THR:HB	1.70	0.72
5:M:44:GLY:O	6:O:400:ALA:CB	2.37	0.72
6:O:409:ILE:HD11	6:Q:297:ALA:CA	2.18	0.72
6:O:625:ARG:CD	6:P:278:THR:OG1	2.36	0.72
6:O:625:ARG:HD2	6:P:278:THR:OG1	1.88	0.72
6:P:562:TYR:CD1	6:P:562:TYR:N	2.57	0.72
6:P:623:LYS:HE3	6:Q:270:ASP:OD2	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:630:LEU:HD13	6:Q:275:GLU:CB	2.17	0.72
5:R:48:ILE:HA	5:R:55:THR:HG22	1.71	0.72
2:B:431:THR:HA	3:C:614:GLN:NE2	2.03	0.72
2:B:645:HIS:HE2	2:B:703:THR:CB	2.01	0.72
2:B:953:GLY:HA2	4:D:35:ARG:HD2	1.71	0.72
3:C:621:TRP:HB2	3:C:776:GLN:HE21	1.53	0.72
4:E:84:ILE:HG22	4:E:86:SER:HB2	1.70	0.72
5:H:4:HIS:CE1	6:I:587:GLY:HA3	2.08	0.72
6:I:246:THR:HB	6:K:154:ARG:HH11	1.47	0.72
6:J:30:ALA:HB2	6:K:610:THR:CB	2.18	0.72
6:J:195:PRO:CG	6:K:562:TYR:CB	2.59	0.72
6:J:458:THR:H	6:K:412:ARG:CD	1.96	0.72
6:J:529:SER:H	6:K:283:SER:HA	1.54	0.72
6:J:622:GLU:CG	6:K:280:LEU:HA	2.15	0.72
6:P:82:PHE:CE2	6:Q:242:PHE:CZ	2.69	0.72
6:U:193:ILE:C	6:V:562:TYR:CZ	2.62	0.72
6:U:419:MET:HE3	6:W:496:GLU:OE1	1.88	0.72
6:U:533:ASP:CB	6:W:161:LYS:HE3	2.13	0.72
6:V:562:TYR:CD1	6:V:562:TYR:N	2.57	0.72
3:C:313:LYS:HA	3:C:1197:TYR:O	1.89	0.72
5:G:51:PHE:HB3	5:G:58:PRO:HB3	1.71	0.72
6:I:247:SER:CA	6:K:154:ARG:NE	2.48	0.72
6:I:456:ASN:ND2	6:J:412:ARG:HA	1.74	0.72
6:O:43:PRO:HA	6:P:84:LYS:CE	2.19	0.72
6:O:248:GLU:H	6:Q:154:ARG:HE	0.75	0.72
6:P:43:PRO:HA	6:Q:84:LYS:CE	2.19	0.72
6:P:530:ARG:CB	6:Q:472:ARG:HD3	2.18	0.72
5:R:194:LEU:HD13	6:W:447:SER:OG	1.89	0.72
5:T:4:HIS:CB	6:U:586:VAL:HG11	2.19	0.72
6:U:298:PHE:HE2	6:V:417:PHE:HA	0.91	0.72
6:V:33:ALA:HB1	6:W:256:SER:HB2	1.72	0.72
5:Y:275:SER:O	5:Y:276:ASP:O	2.07	0.72
3:C:377:ILE:CG2	3:C:380:GLU:C	2.48	0.72
6:I:161:LYS:HE2	6:J:534:SER:N	2.01	0.72
6:I:545:VAL:CG2	6:K:641:ILE:HG12	2.18	0.72
6:O:529:SER:H	6:P:283:SER:CA	2.03	0.72
6:O:533:ASP:CB	6:Q:161:LYS:HE3	2.14	0.72
6:Q:75:ASN:HB3	6:Q:78:MET:HB3	1.70	0.72
6:U:545:VAL:CG2	6:W:641:ILE:HD11	2.17	0.72
2:B:436:LEU:HD12	4:D:175:MET:HB3	1.70	0.72
2:B:952:PRO:HB2	4:D:35:ARG:HH21	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:392:ALA:CA	6:P:49:ARG:NH2	2.52	0.72
4:E:336:ALA:CB	6:U:55:VAL:H	2.02	0.72
5:H:29:ARG:NH2	5:H:34:ASN:HD21	1.87	0.72
6:I:28:SER:CB	6:J:606:THR:HG22	2.09	0.72
6:I:30:ALA:CA	6:J:610:THR:CG2	2.49	0.72
6:I:154:ARG:HH12	6:J:247:SER:H	1.36	0.72
6:I:283:SER:HB3	6:K:528:ALA:C	2.13	0.72
6:I:459:LEU:HG	6:J:412:ARG:NH2	1.98	0.72
6:I:530:ARG:NH2	6:J:482:ASP:CG	2.47	0.72
6:J:165:THR:HG23	6:K:534:SER:HB2	0.77	0.72
6:J:333:PRO:O	6:K:411:VAL:HG13	1.88	0.72
6:K:318:LYS:HD2	6:K:326:THR:HB	1.70	0.72
5:M:29:ARG:NH2	5:M:34:ASN:HD21	1.87	0.72
5:M:103:GLU:HB3	5:M:113:PRO:HG2	1.71	0.72
6:O:42:ASN:OD1	6:P:84:LYS:HE2	1.90	0.72
5:S:26:THR:HG23	5:S:27:ARG:HH11	1.54	0.72
5:T:29:ARG:NH2	5:T:34:ASN:HD21	1.86	0.72
5:T:191:LYS:C	6:V:364:PRO:HB3	2.12	0.72
6:U:43:PRO:HA	6:V:84:LYS:CE	2.19	0.72
6:U:247:SER:H	6:W:154:ARG:HH12	1.31	0.72
6:U:456:ASN:ND2	6:V:412:ARG:HD3	2.04	0.72
6:X:318:LYS:HD2	6:X:326:THR:HB	1.71	0.72
2:B:1178:ARG:HG2	4:D:241:LEU:CD2	2.03	0.72
5:G:48:ILE:HA	5:G:55:THR:HG22	1.72	0.72
6:I:256:SER:HG	6:K:34:ILE:C	1.95	0.72
6:I:298:PHE:HE2	6:J:417:PHE:HA	0.92	0.72
6:I:562:TYR:CD2	6:K:195:PRO:HD3	2.24	0.72
6:I:578:SER:HB3	6:J:471:LEU:HD13	1.65	0.72
6:J:75:ASN:HB3	6:J:78:MET:HB3	1.70	0.72
5:L:29:ARG:NH2	5:L:34:ASN:HD21	1.87	0.72
5:M:51:PHE:HB3	5:M:58:PRO:HB3	1.72	0.72
5:N:103:GLU:HB3	5:N:113:PRO:HG2	1.71	0.72
6:O:154:ARG:NE	6:P:247:SER:CA	2.45	0.72
6:O:529:SER:H	6:P:283:SER:HA	1.55	0.72
6:O:562:TYR:CD1	6:Q:193:ILE:HG22	2.17	0.72
6:P:36:LEU:CD1	6:Q:242:PHE:CD1	2.71	0.72
6:P:622:GLU:OE1	6:Q:281:PRO:HD3	1.90	0.72
6:U:30:ALA:CB	6:V:610:THR:CB	2.62	0.72
6:U:84:LYS:HE2	6:W:42:ASN:OD1	1.88	0.72
5:Y:26:THR:HG23	5:Y:27:ARG:HH11	1.55	0.72
4:D:89:GLY:O	4:D:102:PRO:HA	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:33:ALA:HB3	6:J:256:SER:HA	1.70	0.72
6:I:84:LYS:CE	6:K:43:PRO:HA	2.18	0.72
6:I:409:ILE:HD11	6:K:297:ALA:CA	2.19	0.72
6:J:298:PHE:CB	6:K:418:ASN:C	2.53	0.72
6:P:619:ASP:HB2	6:Q:284:VAL:CB	2.17	0.72
5:T:103:GLU:HB3	5:T:113:PRO:HG2	1.72	0.72
6:U:562:TYR:CD1	6:W:193:ILE:HG22	2.18	0.72
6:U:613:LEU:HD23	6:W:32:PRO:O	1.86	0.72
6:V:36:LEU:CB	6:W:253:VAL:CG1	2.46	0.72
2:B:384:MET:HE3	2:B:1197:TYR:CE1	1.92	0.72
2:B:404:MET:SD	4:D:46:ILE:CD1	2.65	0.72
3:C:795:ASP:HA	4:D:251:ASN:OD1	1.89	0.72
5:H:51:PHE:HB3	5:H:58:PRO:HB3	1.72	0.72
6:I:409:ILE:CD1	6:K:297:ALA:O	2.34	0.72
6:J:43:PRO:HA	6:K:84:LYS:CE	2.19	0.72
6:J:459:LEU:HD11	6:K:412:ARG:H	1.52	0.72
6:J:530:ARG:HA	6:K:472:ARG:CG	2.19	0.72
6:O:30:ALA:CB	6:P:610:THR:CB	2.62	0.72
6:O:44:THR:CB	6:P:84:LYS:HZ2	1.69	0.72
6:O:66:ASP:HB3	6:P:232:ALA:HB1	1.68	0.72
6:O:537:SER:CB	6:Q:165:THR:O	2.37	0.72
6:O:562:TYR:CD2	6:Q:195:PRO:HD3	2.24	0.72
5:R:158:LEU:HB2	5:R:175:PRO:HD2	1.71	0.72
2:B:219:LEU:O	2:B:220:ILE:CG2	2.33	0.72
5:H:193:GLY:HA2	6:J:364:PRO:HG2	1.64	0.72
6:I:613:LEU:HD23	6:K:32:PRO:O	1.85	0.72
6:J:168:THR:HB	6:K:538:ALA:CA	2.20	0.72
5:M:26:THR:HG23	5:M:27:ARG:HH11	1.55	0.72
5:N:194:LEU:HB2	6:P:447:SER:OG	1.89	0.72
6:O:154:ARG:HH11	6:P:246:THR:CB	2.02	0.72
6:O:154:ARG:HH12	6:P:247:SER:H	1.36	0.72
6:O:154:ARG:HD3	6:P:248:GLU:N	2.04	0.72
6:O:548:LYS:HZ2	6:Q:644:LEU:HD22	0.91	0.72
6:P:41:LEU:CD2	6:Q:242:PHE:CD2	2.71	0.72
6:P:318:LYS:HD2	6:P:326:THR:HB	1.72	0.72
6:P:622:GLU:CG	6:Q:280:LEU:HA	2.16	0.72
6:Q:507:ILE:H	6:Q:507:ILE:HD13	1.55	0.72
6:U:297:ALA:HA	6:V:409:ILE:HD13	1.69	0.72
6:U:458:THR:CA	6:V:412:ARG:NE	2.29	0.72
6:U:534:SER:N	6:W:161:LYS:HZ1	1.88	0.72
6:W:43:PRO:HA	6:W:44:THR:HB	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:377:ARG:CZ	6:I:57:THR:HG21	2.17	0.71
4:D:341:TRP:HA	4:D:346:LEU:HD12	1.71	0.71
5:G:29:ARG:NH2	5:G:34:ASN:HD21	1.87	0.71
6:I:283:SER:HA	6:K:529:SER:H	1.54	0.71
6:I:418:ASN:CG	6:I:419:MET:N	2.47	0.71
5:L:51:PHE:HB3	5:L:58:PRO:HB3	1.72	0.71
5:N:158:LEU:HB2	5:N:175:PRO:HD2	1.71	0.71
6:O:247:SER:CA	6:Q:154:ARG:NE	2.48	0.71
6:O:419:MET:H	6:Q:295:ARG:HH11	1.37	0.71
5:R:51:PHE:HB3	5:R:58:PRO:HB3	1.72	0.71
1:A:406:ASN:OD1	6:J:101:THR:HA	1.90	0.71
2:B:436:LEU:CD1	4:D:175:MET:HG3	2.21	0.71
2:B:956:HIS:CD2	4:D:43:HIS:CG	2.78	0.71
4:D:91:THR:HB	4:D:104:PRO:HD2	1.70	0.71
5:F:158:LEU:HB2	5:F:175:PRO:HD2	1.71	0.71
6:I:412:ARG:HG2	6:K:458:THR:HA	1.70	0.71
6:J:562:TYR:CD1	6:J:562:TYR:N	2.57	0.71
6:K:43:PRO:HA	6:K:44:THR:HB	1.70	0.71
6:O:195:PRO:HD3	6:P:562:TYR:CD2	2.25	0.71
6:O:253:VAL:HG12	6:Q:36:LEU:CA	2.20	0.71
6:O:644:LEU:HA	6:P:548:LYS:HE3	1.72	0.71
6:P:147:ARG:HD2	6:W:98:ALA:O	1.91	0.71
6:U:283:SER:HA	6:W:529:SER:H	1.54	0.71
6:U:507:ILE:HD13	6:U:507:ILE:H	1.55	0.71
5:F:103:GLU:HB3	5:F:113:PRO:HG2	1.71	0.71
5:H:48:ILE:HA	5:H:55:THR:HG22	1.72	0.71
6:I:256:SER:HB2	6:K:33:ALA:HB1	1.71	0.71
6:I:412:ARG:HE	6:K:459:LEU:CB	2.02	0.71
5:L:5:MET:HE3	6:P:494:THR:CG2	2.04	0.71
6:P:147:ARG:HE	6:W:100:LYS:HZ1	1.38	0.71
6:P:333:PRO:O	6:Q:411:VAL:HG11	1.88	0.71
6:U:418:ASN:CG	6:U:419:MET:N	2.45	0.71
6:U:529:SER:C	6:V:472:ARG:CD	2.63	0.71
6:U:530:ARG:NH2	6:V:482:ASP:CG	2.47	0.71
6:U:619:ASP:OD1	6:V:284:VAL:HG12	1.87	0.71
6:V:622:GLU:OE1	6:W:281:PRO:HD3	1.89	0.71
6:X:75:ASN:HB3	6:X:78:MET:HB3	1.71	0.71
5:Y:103:GLU:HB3	5:Y:113:PRO:HG2	1.72	0.71
1:A:1136:LEU:HD21	1:A:1153:ALA:HB1	1.72	0.71
3:C:946:VAL:HG23	3:C:946:VAL:O	1.89	0.71
4:E:336:ALA:HA	6:U:55:VAL:CA	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:94:VAL:HB	5:F:180:HIS:HB2	1.73	0.71
6:I:248:GLU:H	6:K:154:ARG:HE	0.74	0.71
6:I:419:MET:N	6:K:295:ARG:HH11	1.88	0.71
6:I:456:ASN:HB2	6:J:412:ARG:HA	1.72	0.71
6:I:534:SER:O	6:K:165:THR:HA	1.90	0.71
5:N:26:THR:HG23	5:N:27:ARG:HH11	1.54	0.71
6:P:530:ARG:N	6:Q:472:ARG:HD2	1.86	0.71
5:S:103:GLU:HB3	5:S:113:PRO:HG2	1.71	0.71
6:U:42:ASN:OD1	6:V:84:LYS:HE2	1.89	0.71
6:U:253:VAL:HG12	6:W:36:LEU:CA	2.21	0.71
6:V:43:PRO:HA	6:W:84:LYS:CE	2.20	0.71
6:V:168:THR:C	6:W:541:SER:HG	1.98	0.71
6:V:298:PHE:CB	6:W:418:ASN:C	2.53	0.71
6:V:630:LEU:HD13	6:W:275:GLU:CB	2.17	0.71
3:C:208:ASP:HB2	3:C:236:PRO:HB3	1.72	0.71
5:H:103:GLU:HB3	5:H:113:PRO:HG2	1.71	0.71
5:H:158:LEU:HB2	5:H:175:PRO:HD2	1.70	0.71
6:I:412:ARG:CD	6:K:456:ASN:HD21	2.00	0.71
6:J:33:ALA:HB1	6:K:256:SER:HB2	1.71	0.71
6:J:161:LYS:HD3	6:K:534:SER:CB	2.21	0.71
6:J:622:GLU:OE1	6:K:281:PRO:HD3	1.90	0.71
5:N:2:PRO:CG	6:O:587:GLY:HA2	2.08	0.71
5:N:51:PHE:HB3	5:N:58:PRO:HB3	1.72	0.71
6:O:75:ASN:HB3	6:O:78:MET:HB3	1.71	0.71
6:O:534:SER:HB2	6:Q:165:THR:HG23	0.71	0.71
6:O:641:ILE:CG1	6:P:545:VAL:CG2	2.68	0.71
6:P:193:ILE:HA	6:Q:562:TYR:HE1	1.47	0.71
6:P:295:ARG:HH22	6:Q:354:SER:HB2	1.55	0.71
5:S:51:PHE:HB3	5:S:58:PRO:HB3	1.72	0.71
6:U:75:ASN:HB3	6:U:78:MET:HB3	1.70	0.71
6:U:416:ARG:HA	6:W:298:PHE:CZ	2.25	0.71
6:U:459:LEU:CA	6:V:412:ARG:NE	2.38	0.71
6:U:533:ASP:C	6:W:161:LYS:HE2	2.16	0.71
6:V:75:ASN:HB3	6:V:78:MET:HB3	1.71	0.71
2:B:645:HIS:HE1	2:B:700:TRP:CE3	2.02	0.71
5:F:29:ARG:NH2	5:F:34:ASN:HD21	1.87	0.71
5:G:158:LEU:HB2	5:G:175:PRO:HD2	1.70	0.71
5:H:4:HIS:CB	6:I:586:VAL:CG1	2.68	0.71
6:J:298:PHE:CE2	6:K:408:ALA:HA	2.26	0.71
5:L:26:THR:HG23	5:L:27:ARG:HH11	1.55	0.71
6:O:253:VAL:HG11	6:Q:36:LEU:O	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:121:ALA:HB2	6:Q:87:PHE:CE2	2.20	0.71
6:P:528:ALA:CB	6:Q:283:SER:HA	2.02	0.71
5:S:2:PRO:HG2	6:W:587:GLY:CA	2.14	0.71
5:T:193:GLY:HA2	6:V:364:PRO:HG3	1.71	0.71
6:U:42:ASN:OD1	6:V:84:LYS:CG	2.39	0.71
6:U:529:SER:H	6:V:283:SER:CA	2.04	0.71
6:X:497:GLU:CG	5:Y:5:MET:SD	2.78	0.71
4:D:85:THR:HB	4:D:111:VAL:O	1.88	0.71
6:I:43:PRO:HA	6:I:44:THR:HB	1.73	0.71
6:I:298:PHE:CB	6:J:418:ASN:C	2.55	0.71
6:I:562:TYR:CE2	6:K:193:ILE:HG22	2.17	0.71
6:O:528:ALA:C	6:P:283:SER:HB3	2.16	0.71
6:P:529:SER:H	6:Q:283:SER:HA	1.53	0.71
6:U:253:VAL:HG11	6:W:36:LEU:O	1.90	0.71
6:U:534:SER:OG	6:W:161:LYS:C	2.33	0.71
1:A:400:LEU:HB2	1:A:746:PHE:CD1	2.26	0.71
2:B:954:PRO:HG3	4:D:39:SER:C	2.16	0.71
3:C:386:GLU:CD	3:C:1195:TYR:CD1	2.68	0.71
3:C:1014:VAL:HA	3:C:1034:ASP:OD1	1.91	0.71
5:G:44:GLY:C	6:I:400:ALA:HB2	2.14	0.71
5:G:131:ARG:HE	6:I:448:PRO:HG2	1.56	0.71
6:I:545:VAL:CG2	6:K:641:ILE:HD11	2.18	0.71
6:J:298:PHE:HE2	6:K:417:PHE:HA	0.90	0.71
5:L:4:HIS:NE2	6:P:586:VAL:CG2	2.35	0.71
5:N:29:ARG:NH2	5:N:34:ASN:HD21	1.87	0.71
6:O:193:ILE:C	6:P:562:TYR:CZ	2.62	0.71
6:O:412:ARG:CD	6:Q:456:ASN:HD21	2.01	0.71
6:O:412:ARG:N	6:Q:456:ASN:HD21	1.87	0.71
6:O:418:ASN:HD21	6:Q:300:LYS:HE2	1.55	0.71
2:B:376:LEU:HB2	4:D:249:LYS:CE	2.19	0.71
5:G:103:GLU:HB3	5:G:113:PRO:HG2	1.71	0.71
6:I:456:ASN:ND2	6:J:412:ARG:HD3	2.06	0.71
5:L:103:GLU:HB3	5:L:113:PRO:HG2	1.71	0.71
5:M:131:ARG:HE	6:O:448:PRO:HG2	1.56	0.71
6:O:193:ILE:HG22	6:P:562:TYR:CE2	2.20	0.71
6:P:298:PHE:CE2	6:Q:408:ALA:HA	2.25	0.71
6:P:456:ASN:HD21	6:Q:412:ARG:N	1.87	0.71
6:U:409:ILE:CD1	6:W:297:ALA:O	2.33	0.71
6:U:641:ILE:CG1	6:V:545:VAL:CG2	2.68	0.71
2:B:215:LEU:HD12	2:B:216:THR:HG22	1.71	0.71
2:B:310:LYS:CA	2:B:399:ARG:NH1	2.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:954:PRO:HD3	4:D:39:SER:HG	1.56	0.71
4:E:339:LEU:HB3	6:U:55:VAL:HG21	1.72	0.71
5:F:5:MET:HE3	6:J:494:THR:CG2	2.04	0.71
6:I:42:ASN:OD1	6:J:84:LYS:CG	2.39	0.71
6:I:161:LYS:C	6:J:534:SER:HG	1.95	0.71
6:I:253:VAL:HG12	6:K:36:LEU:CA	2.21	0.71
6:I:459:LEU:CD1	6:J:412:ARG:N	2.52	0.71
5:S:29:ARG:NH2	5:S:34:ASN:HD21	1.88	0.71
6:U:534:SER:O	6:W:165:THR:HA	1.91	0.71
6:V:41:LEU:CD2	6:W:242:PHE:CD2	2.71	0.71
6:V:333:PRO:C	6:W:411:VAL:HG21	1.99	0.71
2:B:376:LEU:HD21	3:C:795:ASP:CA	2.21	0.70
4:E:335:ALA:HB1	6:U:56:ALA:CB	2.15	0.70
6:I:253:VAL:HG11	6:K:36:LEU:O	1.90	0.70
6:J:530:ARG:CB	6:K:472:ARG:HD3	2.18	0.70
6:O:30:ALA:CA	6:P:610:THR:CG2	2.48	0.70
6:O:256:SER:HA	6:Q:33:ALA:HB3	1.72	0.70
6:O:256:SER:HB2	6:Q:33:ALA:HB1	1.73	0.70
6:O:412:ARG:NE	6:Q:459:LEU:CG	2.36	0.70
6:O:609:ARG:O	6:Q:32:PRO:HD3	1.91	0.70
6:P:161:LYS:HE3	6:Q:533:ASP:CG	2.00	0.70
5:S:48:ILE:HA	5:S:55:THR:HG22	1.73	0.70
6:U:529:SER:H	6:V:283:SER:HA	1.56	0.70
1:A:749:VAL:HG22	1:A:756:SER:O	1.91	0.70
1:A:822:GLN:HB2	1:A:826:PRO:HA	1.73	0.70
3:C:669:PHE:CD1	3:C:938:TYR:CD2	2.78	0.70
5:G:26:THR:HG23	5:G:27:ARG:HH11	1.56	0.70
5:H:193:GLY:HA2	6:J:364:PRO:HG3	1.72	0.70
6:I:42:ASN:OD1	6:J:84:LYS:HE2	1.90	0.70
6:I:43:PRO:HA	6:J:84:LYS:CE	2.20	0.70
6:I:82:PHE:CZ	6:J:242:PHE:HE1	2.07	0.70
6:I:418:ASN:HD21	6:K:300:LYS:HE2	1.54	0.70
6:J:121:ALA:HB2	6:K:87:PHE:CE2	2.23	0.70
6:O:84:LYS:HE2	6:Q:42:ASN:OD1	1.88	0.70
6:O:298:PHE:HE2	6:P:417:PHE:HA	0.89	0.70
6:O:534:SER:OG	6:Q:161:LYS:C	2.33	0.70
5:T:94:VAL:HB	5:T:180:HIS:HB2	1.73	0.70
6:U:154:ARG:HD3	6:V:248:GLU:N	2.06	0.70
6:V:168:THR:HB	6:W:538:ALA:CA	2.20	0.70
6:J:44:THR:CB	6:K:84:LYS:HZ1	1.70	0.70
6:J:295:ARG:HH11	6:K:419:MET:N	1.87	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:644:LEU:HD23	6:K:548:LYS:HZ1	1.51	0.70
5:S:44:GLY:C	6:U:400:ALA:HB2	2.13	0.70
6:U:298:PHE:CB	6:V:418:ASN:C	2.56	0.70
6:U:354:SER:OG	6:W:295:ARG:CZ	2.40	0.70
6:X:507:ILE:HD13	6:X:507:ILE:H	1.56	0.70
5:H:26:THR:HG23	5:H:27:ARG:HH11	1.54	0.70
6:I:529:SER:H	6:J:283:SER:CA	2.03	0.70
6:I:619:ASP:OD1	6:J:284:VAL:HG12	1.88	0.70
6:J:623:LYS:HE3	6:K:270:ASP:OD2	1.89	0.70
5:L:48:ILE:HA	5:L:55:THR:HG22	1.72	0.70
6:O:644:LEU:HD22	6:P:548:LYS:HZ2	0.88	0.70
6:P:168:THR:HB	6:Q:538:ALA:CA	2.21	0.70
5:R:103:GLU:HB3	5:R:113:PRO:HG2	1.72	0.70
5:T:4:HIS:CB	6:U:586:VAL:CG1	2.69	0.70
6:U:28:SER:CB	6:V:606:THR:HG22	2.10	0.70
6:U:419:MET:N	6:W:295:ARG:HH11	1.89	0.70
6:V:333:PRO:O	6:W:411:VAL:HG13	1.92	0.70
2:B:951:PRO:HB3	4:D:99:SER:HB2	1.74	0.70
4:D:46:ILE:HG21	4:D:187:GLN:HG2	1.71	0.70
6:I:612:SER:HB2	6:K:160:GLN:NE2	1.69	0.70
6:J:170:LEU:HA	6:K:541:SER:HB3	1.74	0.70
6:J:507:ILE:HD13	6:J:507:ILE:H	1.56	0.70
6:O:545:VAL:CG2	6:Q:641:ILE:HD11	2.16	0.70
6:P:357:ILE:HB	6:P:417:PHE:HB2	1.73	0.70
6:P:507:ILE:HD13	6:P:507:ILE:H	1.56	0.70
6:P:530:ARG:HA	6:Q:472:ARG:CG	2.19	0.70
5:T:48:ILE:HA	5:T:55:THR:HG22	1.73	0.70
6:U:36:LEU:HD23	6:V:253:VAL:CG1	2.09	0.70
6:U:256:SER:HA	6:W:33:ALA:HB3	1.73	0.70
6:U:354:SER:HB2	6:W:295:ARG:HH22	1.56	0.70
6:U:562:TYR:CD2	6:W:195:PRO:HD3	2.25	0.70
5:Y:48:ILE:HA	5:Y:55:THR:HG22	1.72	0.70
1:A:443:TYR:HB2	1:A:644:LEU:HB3	1.73	0.70
4:D:392:ALA:CB	6:P:49:ARG:CD	2.57	0.70
4:E:339:LEU:CD2	6:U:55:VAL:HG13	2.12	0.70
6:I:419:MET:H	6:K:295:ARG:HH11	1.36	0.70
6:J:33:ALA:HB1	6:K:256:SER:HA	1.73	0.70
6:J:36:LEU:CD1	6:K:242:PHE:CD1	2.73	0.70
6:K:295:ARG:NH1	6:K:298:PHE:HB2	2.07	0.70
6:O:530:ARG:NH2	6:P:482:ASP:CG	2.48	0.70
6:P:33:ALA:HB1	6:Q:256:SER:HA	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:42:ASN:OD1	6:Q:84:LYS:CG	2.40	0.70
6:P:161:LYS:HD3	6:Q:534:SER:CB	2.21	0.70
6:P:168:THR:C	6:Q:541:SER:HG	1.99	0.70
6:P:299:ILE:HD13	6:Q:419:MET:HE1	1.73	0.70
6:U:528:ALA:C	6:V:283:SER:HB3	2.16	0.70
1:A:68:TRP:CD1	1:A:127:ASN:HD21	2.09	0.70
2:B:404:MET:SD	4:D:46:ILE:HB	2.32	0.70
2:B:858:VAL:CB	2:B:861:ARG:NH2	2.55	0.70
3:C:436:LEU:HD13	4:E:187:GLN:NE2	2.05	0.70
3:C:715:VAL:HG21	3:C:726:ARG:HD2	1.72	0.70
3:C:1064:TRP:CH2	3:C:1100:LEU:CD1	2.74	0.70
6:I:298:PHE:CE1	6:J:417:PHE:O	2.44	0.70
6:O:456:ASN:ND2	6:P:412:ARG:HD3	2.06	0.70
6:O:534:SER:O	6:Q:165:THR:HA	1.91	0.70
6:U:562:TYR:CD1	6:U:562:TYR:N	2.60	0.70
6:U:640:GLN:NE2	6:V:545:VAL:HG13	2.00	0.70
6:V:36:LEU:CD1	6:W:242:PHE:CD1	2.72	0.70
6:I:412:ARG:NH1	6:K:459:LEU:HD23	2.06	0.70
6:I:529:SER:H	6:J:283:SER:HA	1.56	0.70
6:I:534:SER:HB2	6:K:165:THR:HG23	0.70	0.70
6:O:42:ASN:OD1	6:P:84:LYS:CG	2.39	0.70
6:O:168:THR:CB	6:P:538:ALA:N	2.54	0.70
6:O:246:THR:HB	6:Q:154:ARG:HH11	1.48	0.70
6:O:609:ARG:HG2	6:Q:29:THR:OG1	1.92	0.70
3:C:856:ARG:HH11	3:C:920:LEU:HD21	1.57	0.70
6:I:256:SER:HA	6:K:33:ALA:HB3	1.73	0.70
6:I:533:ASP:C	6:K:161:LYS:HE2	2.17	0.70
6:I:609:ARG:O	6:K:32:PRO:HD3	1.92	0.70
6:I:609:ARG:HG2	6:K:29:THR:OG1	1.92	0.70
6:J:161:LYS:HE3	6:K:533:ASP:CG	2.00	0.70
6:J:459:LEU:CD2	6:K:412:ARG:HH22	1.75	0.70
5:M:4:HIS:CE1	6:Q:587:GLY:HA3	2.12	0.70
6:P:30:ALA:HB2	6:Q:610:THR:CB	2.20	0.70
6:V:33:ALA:HB1	6:W:256:SER:HA	1.73	0.70
2:B:376:LEU:HD22	3:C:795:ASP:CG	2.13	0.70
5:G:4:HIS:ND1	6:K:586:VAL:CG2	2.42	0.70
5:H:176:LEU:HD22	5:H:185:VAL:HG22	1.74	0.70
6:J:42:ASN:OD1	6:K:84:LYS:CG	2.40	0.70
6:J:122:THR:CG2	6:K:90:ASN:CB	2.52	0.70
5:M:94:VAL:HB	5:M:180:HIS:HB2	1.73	0.70
6:O:507:ILE:HD13	6:O:507:ILE:H	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:154:ARG:NE	6:Q:247:SER:CA	2.47	0.70
5:T:51:PHE:HB3	5:T:58:PRO:HB3	1.72	0.70
6:U:411:VAL:HG13	6:W:457:PRO:HG3	1.73	0.70
6:U:541:SER:OG	6:W:169:MET:N	2.25	0.70
6:V:36:LEU:CD2	6:W:242:PHE:CG	2.70	0.70
6:V:298:PHE:CE2	6:W:408:ALA:HA	2.27	0.70
6:X:587:GLY:HA2	5:Y:2:PRO:HB2	1.74	0.70
1:A:1198:LEU:HD12	1:A:1239:ALA:HB2	1.73	0.69
5:G:94:VAL:HB	5:G:180:HIS:HB2	1.74	0.69
6:I:84:LYS:CG	6:K:42:ASN:OD1	2.40	0.69
6:I:160:GLN:NE2	6:J:612:SER:CA	1.85	0.69
6:I:507:ILE:HD13	6:I:507:ILE:H	1.56	0.69
6:I:528:ALA:C	6:J:283:SER:HB3	2.17	0.69
6:I:562:TYR:HE1	6:K:193:ILE:HA	1.51	0.69
6:J:193:ILE:HG23	6:K:562:TYR:CE1	2.17	0.69
5:R:192:THR:O	6:W:364:PRO:HB2	1.91	0.69
6:U:418:ASN:HD21	6:W:300:LYS:HE2	1.55	0.69
6:V:170:LEU:HA	6:W:541:SER:HB3	1.74	0.69
2:B:858:VAL:HB	2:B:861:ARG:NH2	2.06	0.69
2:B:910:LYS:NZ	2:B:919:LEU:H	1.89	0.69
3:C:796:ALA:CB	3:C:799:ASP:OD2	2.38	0.69
6:I:144:ASN:HA	6:I:147:ARG:CD	2.22	0.69
6:I:537:SER:OG	6:K:165:THR:CA	2.40	0.69
6:I:562:TYR:CD1	6:I:562:TYR:N	2.59	0.69
6:J:169:MET:C	6:K:541:SER:HB3	2.13	0.69
5:M:44:GLY:HA3	6:O:400:ALA:CA	1.82	0.69
5:N:4:HIS:CB	6:O:586:VAL:CG1	2.69	0.69
5:N:192:THR:C	6:P:364:PRO:CB	2.57	0.69
6:O:84:LYS:HZ1	6:Q:44:THR:CG2	1.88	0.69
6:O:456:ASN:HB2	6:P:412:ARG:HA	1.72	0.69
6:P:193:ILE:HG23	6:Q:562:TYR:CE1	2.17	0.69
5:R:4:HIS:NE2	6:V:586:VAL:CG2	2.35	0.69
6:U:168:THR:CB	6:V:538:ALA:N	2.54	0.69
6:U:333:PRO:O	6:V:411:VAL:HG11	1.92	0.69
6:U:459:LEU:CD1	6:V:414:GLN:HE22	1.91	0.69
6:V:161:LYS:HD3	6:W:534:SER:CB	2.21	0.69
6:V:295:ARG:HH11	6:W:419:MET:H	1.40	0.69
1:A:406:ASN:HD21	6:J:102:GLY:CA	2.06	0.69
1:A:633:ASN:HD22	1:A:634:LEU:HG	1.56	0.69
2:B:353:GLN:HE22	3:C:1020:ILE:HD11	1.55	0.69
4:E:329:ASN:O	4:E:332:PRO:HD2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:51:PHE:HB3	5:F:58:PRO:HB3	1.72	0.69
5:H:44:GLY:C	6:J:400:ALA:HB2	2.15	0.69
6:I:168:THR:CB	6:J:538:ALA:N	2.55	0.69
5:S:4:HIS:CE1	6:W:587:GLY:HA3	2.13	0.69
6:U:232:ALA:HB1	6:W:66:ASP:CG	1.90	0.69
6:U:609:ARG:O	6:W:32:PRO:HD3	1.93	0.69
6:V:507:ILE:H	6:V:507:ILE:HD13	1.56	0.69
1:A:472:ARG:HG2	1:A:692:VAL:HB	1.75	0.69
1:A:582:LEU:HD23	1:A:621:ASN:HD21	1.58	0.69
2:B:400:GLU:HG3	2:B:401:THR:N	2.06	0.69
2:B:404:MET:CE	4:D:46:ILE:HD12	2.11	0.69
5:G:91:THR:HB	5:G:180:HIS:CE1	2.27	0.69
6:I:533:ASP:OD1	6:K:161:LYS:HG3	1.87	0.69
6:I:622:GLU:HB2	6:J:281:PRO:CD	2.22	0.69
6:I:641:ILE:CG1	6:J:545:VAL:CG2	2.70	0.69
5:L:94:VAL:HB	5:L:180:HIS:HB2	1.74	0.69
5:R:26:THR:HG23	5:R:27:ARG:HH11	1.55	0.69
5:T:26:THR:HG23	5:T:27:ARG:HH11	1.56	0.69
6:V:42:ASN:OD1	6:W:84:LYS:CG	2.40	0.69
6:V:459:LEU:CB	6:W:412:ARG:NE	2.56	0.69
1:A:248:LEU:HD21	2:B:627:ASN:HD22	1.55	0.69
6:I:412:ARG:HE	6:K:459:LEU:HG	1.55	0.69
6:O:284:VAL:HG12	6:Q:619:ASP:OD1	1.88	0.69
6:O:533:ASP:C	6:Q:161:LYS:HE2	2.17	0.69
6:O:562:TYR:CD1	6:O:562:TYR:N	2.59	0.69
6:P:295:ARG:HH11	6:Q:419:MET:N	1.87	0.69
6:P:619:ASP:HB2	6:Q:284:VAL:CG1	2.20	0.69
6:V:169:MET:O	6:W:541:SER:OG	1.93	0.69
6:V:295:ARG:HH22	6:W:354:SER:HB2	1.57	0.69
6:W:507:ILE:HD13	6:W:507:ILE:H	1.56	0.69
5:Y:51:PHE:HB3	5:Y:58:PRO:HB3	1.72	0.69
2:B:404:MET:HE3	4:D:46:ILE:CG1	2.23	0.69
3:C:754:GLU:O	3:C:757:VAL:HG12	1.91	0.69
5:H:91:THR:HB	5:H:180:HIS:CE1	2.28	0.69
6:J:165:THR:HG22	6:K:534:SER:C	2.17	0.69
6:J:295:ARG:HH22	6:K:354:SER:HB2	1.56	0.69
6:J:299:ILE:HD13	6:K:419:MET:CE	2.16	0.69
6:J:606:THR:HG22	6:J:609:ARG:CZ	2.22	0.69
5:M:48:ILE:HA	5:M:55:THR:HG22	1.73	0.69
6:O:281:PRO:HG3	6:Q:618:THR:C	2.18	0.69
6:O:354:SER:OG	6:Q:295:ARG:CZ	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:609:ARG:O	6:Q:32:PRO:CD	2.41	0.69
6:P:333:PRO:O	6:Q:411:VAL:HG13	1.92	0.69
6:P:333:PRO:C	6:Q:411:VAL:HG21	1.99	0.69
6:U:165:THR:HG23	6:V:534:SER:HB2	0.70	0.69
6:V:458:THR:H	6:W:412:ARG:CD	1.96	0.69
6:V:528:ALA:C	6:W:283:SER:CB	2.65	0.69
6:W:295:ARG:NH1	6:W:298:PHE:HB2	2.07	0.69
2:B:437:ARG:NE	4:D:173:ALA:CA	2.53	0.69
2:B:953:GLY:CA	4:D:35:ARG:HD2	2.19	0.69
2:B:1211:ARG:NH1	3:C:611:PRO:HG3	2.07	0.69
3:C:715:VAL:CG2	3:C:726:ARG:NH2	2.52	0.69
6:K:507:ILE:H	6:K:507:ILE:HD13	1.56	0.69
6:O:168:THR:HG1	6:P:537:SER:CB	1.89	0.69
6:O:412:ARG:HE	6:Q:459:LEU:HG	1.54	0.69
6:O:619:ASP:OD2	6:P:284:VAL:CG1	2.27	0.69
6:O:644:LEU:HB3	6:P:548:LYS:HE2	1.74	0.69
5:S:4:HIS:ND1	6:W:586:VAL:CG2	2.42	0.69
6:U:298:PHE:CE1	6:V:417:PHE:O	2.46	0.69
6:U:412:ARG:HE	6:W:459:LEU:HG	1.55	0.69
6:V:44:THR:HA	6:W:84:LYS:CE	2.13	0.69
2:B:645:HIS:NE2	2:B:703:THR:CB	2.55	0.69
3:C:380:GLU:O	3:C:380:GLU:HG2	1.92	0.69
4:D:104:PRO:O	4:D:107:GLN:HB2	1.93	0.69
5:F:26:THR:HG23	5:F:27:ARG:HH11	1.55	0.69
6:I:354:SER:OG	6:K:295:ARG:CZ	2.41	0.69
6:J:295:ARG:HH11	6:K:419:MET:H	1.40	0.69
6:J:295:ARG:HH11	6:J:298:PHE:HB2	1.58	0.69
5:L:176:LEU:HD22	5:L:185:VAL:HG22	1.74	0.69
6:P:44:THR:CB	6:Q:84:LYS:HZ1	1.68	0.69
6:P:299:ILE:HD13	6:Q:419:MET:CE	2.15	0.69
6:P:528:ALA:C	6:Q:283:SER:CB	2.65	0.69
6:P:606:THR:HG22	6:P:609:ARG:CZ	2.23	0.69
6:U:545:VAL:HG13	6:W:640:GLN:NE2	1.96	0.69
6:U:609:ARG:CG	6:W:29:THR:OG1	2.41	0.69
6:V:606:THR:HG22	6:V:609:ARG:CZ	2.22	0.69
6:V:640:GLN:CD	6:W:545:VAL:CG1	2.51	0.69
2:B:404:MET:HE3	4:D:46:ILE:C	2.18	0.69
4:E:125:TYR:HE2	4:E:127:THR:HB	1.57	0.69
5:G:176:LEU:HD22	5:G:185:VAL:HG22	1.75	0.69
6:I:609:ARG:CG	6:K:29:THR:OG1	2.41	0.69
6:I:609:ARG:O	6:K:32:PRO:CD	2.41	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:43:PRO:HA	6:O:44:THR:HB	1.74	0.69
6:O:537:SER:OG	6:Q:165:THR:CA	2.40	0.69
6:P:459:LEU:CB	6:Q:412:ARG:HB2	2.23	0.69
5:T:91:THR:HB	5:T:180:HIS:CE1	2.28	0.69
6:U:43:PRO:HA	6:U:44:THR:HB	1.73	0.69
1:A:267:MET:HB3	1:A:271:ARG:HH21	1.58	0.69
1:A:843:LEU:HD21	1:A:854:MET:HE1	1.74	0.69
2:B:452:ARG:NH2	2:B:667:ASN:CA	2.46	0.69
2:B:1071:ARG:NE	2:B:1071:ARG:HA	2.08	0.69
4:D:392:ALA:HB3	6:P:49:ARG:NH2	2.06	0.69
4:E:336:ALA:HA	6:U:55:VAL:CG2	2.23	0.69
5:H:94:VAL:HB	5:H:180:HIS:HB2	1.73	0.69
6:I:538:ALA:N	6:K:168:THR:CB	2.56	0.69
6:J:161:LYS:HE2	6:K:534:SER:N	2.08	0.69
6:O:456:ASN:OD1	6:P:412:ARG:HA	1.84	0.69
5:S:176:LEU:HD22	5:S:185:VAL:HG22	1.75	0.69
6:U:256:SER:HB2	6:W:33:ALA:HB1	1.74	0.69
6:U:412:ARG:HD3	6:W:456:ASN:ND2	2.08	0.69
6:V:459:LEU:CB	6:W:412:ARG:HB2	2.23	0.69
4:E:332:PRO:C	6:U:54:SER:HG	1.75	0.68
6:J:456:ASN:HD21	6:K:412:ARG:CG	1.95	0.68
6:O:459:LEU:CD1	6:P:414:GLN:HE22	1.90	0.68
6:O:541:SER:OG	6:Q:169:MET:N	2.25	0.68
6:U:84:LYS:CG	6:W:42:ASN:OD1	2.40	0.68
6:U:281:PRO:HG3	6:W:618:THR:C	2.17	0.68
6:U:538:ALA:N	6:W:168:THR:CB	2.56	0.68
6:V:32:PRO:O	6:W:613:LEU:HD23	1.87	0.68
1:A:669:ARG:HH21	1:A:669:ARG:HG3	1.57	0.68
3:C:436:LEU:HB2	4:E:43:HIS:CD2	2.28	0.68
3:C:799:ASP:HB2	3:C:801:ARG:NE	2.09	0.68
5:G:44:GLY:C	6:I:400:ALA:CA	2.42	0.68
6:I:144:ASN:CB	6:I:147:ARG:HE	2.05	0.68
6:O:242:PHE:CD1	6:Q:36:LEU:CD1	2.76	0.68
6:O:298:PHE:CE1	6:P:416:ARG:CA	2.76	0.68
6:O:562:TYR:CG	6:Q:194:LEU:HA	2.28	0.68
6:P:42:ASN:HD22	6:Q:235:LEU:HD21	1.39	0.68
6:P:170:LEU:HA	6:Q:541:SER:HB3	1.75	0.68
6:Q:295:ARG:NH1	6:Q:298:PHE:HB2	2.08	0.68
5:R:176:LEU:HD22	5:R:185:VAL:HG22	1.75	0.68
6:U:36:LEU:HD23	6:V:242:PHE:HB3	1.64	0.68
6:U:333:PRO:O	6:V:411:VAL:HG13	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:154:ARG:HB2	6:W:248:GLU:OE1	1.31	0.68
6:V:623:LYS:HE3	6:W:270:ASP:OD2	1.89	0.68
5:Y:91:THR:HB	5:Y:180:HIS:CE1	2.29	0.68
6:I:281:PRO:HG3	6:K:618:THR:C	2.17	0.68
6:I:284:VAL:HG12	6:K:619:ASP:OD1	1.89	0.68
6:I:411:VAL:HG13	6:K:457:PRO:HG3	1.72	0.68
6:J:528:ALA:CB	6:K:283:SER:HA	2.05	0.68
6:K:196:LEU:HA	6:K:201:LEU:HD22	1.76	0.68
5:L:192:THR:O	6:Q:364:PRO:HB2	1.92	0.68
6:O:84:LYS:CG	6:Q:42:ASN:OD1	2.40	0.68
6:O:412:ARG:NH1	6:Q:459:LEU:HD23	2.08	0.68
6:O:416:ARG:HA	6:Q:298:PHE:CZ	2.27	0.68
5:S:94:VAL:HB	5:S:180:HIS:HB2	1.74	0.68
6:U:242:PHE:HE1	6:W:82:PHE:CZ	2.10	0.68
6:V:36:LEU:HD21	6:W:242:PHE:HB3	0.69	0.68
6:X:497:GLU:CD	5:Y:5:MET:SD	2.76	0.68
5:Y:94:VAL:HB	5:Y:180:HIS:HB2	1.74	0.68
2:B:429:ASN:HD21	3:C:611:PRO:HG2	1.59	0.68
4:E:335:ALA:HA	6:U:55:VAL:O	1.91	0.68
5:F:176:LEU:HD22	5:F:185:VAL:HG22	1.75	0.68
6:I:248:GLU:N	6:K:154:ARG:HD3	2.06	0.68
6:J:496:GLU:OE1	6:K:419:MET:HE3	1.92	0.68
6:J:528:ALA:C	6:K:283:SER:CB	2.65	0.68
5:M:194:LEU:CB	6:O:447:SER:OG	2.41	0.68
6:O:419:MET:N	6:Q:295:ARG:HH11	1.89	0.68
6:O:609:ARG:CG	6:Q:29:THR:OG1	2.41	0.68
6:P:154:ARG:HD3	6:Q:248:GLU:N	2.07	0.68
6:P:161:LYS:HE2	6:Q:534:SER:N	2.08	0.68
6:P:456:ASN:HD21	6:Q:412:ARG:CG	1.95	0.68
5:T:192:THR:C	6:V:364:PRO:CB	2.58	0.68
6:U:242:PHE:CE1	6:W:36:LEU:HD11	2.29	0.68
6:U:609:ARG:HG2	6:W:29:THR:OG1	1.92	0.68
6:V:193:ILE:HG23	6:W:562:TYR:CE1	2.19	0.68
3:C:1071:ARG:HA	3:C:1071:ARG:NE	2.08	0.68
6:I:144:ASN:HA	6:I:147:ARG:HD3	1.75	0.68
6:I:298:PHE:CE1	6:J:416:ARG:CA	2.77	0.68
5:N:94:VAL:HB	5:N:180:HIS:HB2	1.74	0.68
6:O:248:GLU:N	6:Q:154:ARG:HD3	2.06	0.68
6:P:298:PHE:CB	6:Q:418:ASN:C	2.52	0.68
6:P:496:GLU:OE1	6:Q:419:MET:HE3	1.92	0.68
5:R:94:VAL:HB	5:R:180:HIS:HB2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:157:ALA:HA	6:U:160:GLN:OE1	1.94	0.68
6:U:419:MET:H	6:W:295:ARG:HH11	1.40	0.68
6:U:545:VAL:HG12	6:W:640:GLN:HE22	1.19	0.68
6:V:530:ARG:HA	6:W:472:ARG:CG	2.21	0.68
2:B:1213:ALA:HB1	3:C:552:ASP:OD2	1.56	0.68
3:C:314:SER:CA	3:C:1196:ARG:CD	2.68	0.68
5:G:194:LEU:CB	6:I:447:SER:OG	2.41	0.68
6:I:193:ILE:HA	6:J:562:TYR:HE1	1.53	0.68
6:I:298:PHE:O	6:J:418:ASN:CG	2.36	0.68
6:I:562:TYR:CG	6:K:194:LEU:HA	2.29	0.68
6:J:459:LEU:CB	6:K:412:ARG:NE	2.55	0.68
5:N:44:GLY:C	6:P:400:ALA:HB2	2.13	0.68
6:O:84:LYS:HZ1	6:Q:44:THR:CB	1.68	0.68
6:O:161:LYS:HE3	6:P:533:ASP:CG	1.96	0.68
6:P:122:THR:CG2	6:Q:90:ASN:CB	2.52	0.68
6:U:412:ARG:NH1	6:W:459:LEU:HD23	2.08	0.68
6:V:196:LEU:HA	6:V:201:LEU:HD22	1.76	0.68
6:V:644:LEU:HB3	6:W:548:LYS:HE2	1.73	0.68
2:B:219:LEU:C	2:B:220:ILE:HG23	2.18	0.68
2:B:954:PRO:HA	4:D:35:ARG:HH12	1.54	0.68
4:D:14:TYR:HE1	6:P:57:THR:H	1.34	0.68
4:D:390:ASN:ND2	6:P:50:PRO:CG	2.52	0.68
5:G:193:GLY:HA2	6:I:364:PRO:HG3	1.75	0.68
6:J:300:LYS:HZ1	6:K:418:ASN:CB	2.05	0.68
6:J:530:ARG:N	6:K:472:ARG:HD2	1.88	0.68
6:O:610:THR:CA	6:Q:30:ALA:HB3	2.21	0.68
6:P:144:ASN:O	6:W:100:LYS:CE	2.41	0.68
6:P:644:LEU:HD23	6:Q:548:LYS:HZ1	1.53	0.68
6:U:84:LYS:CE	6:W:44:THR:HA	2.16	0.68
6:V:161:LYS:HE2	6:W:534:SER:N	2.08	0.68
6:V:431:ILE:HD13	6:V:437:ILE:HG12	1.76	0.68
6:W:357:ILE:HB	6:W:417:PHE:HB2	1.76	0.68
6:X:196:LEU:HA	6:X:201:LEU:HD22	1.75	0.68
1:A:167:ASP:O	1:A:212:ALA:HB1	1.93	0.68
6:I:66:ASP:HB3	6:J:232:ALA:HB1	1.68	0.68
6:I:644:LEU:HB3	6:J:548:LYS:HE2	1.73	0.68
6:J:459:LEU:CA	6:K:412:ARG:HH11	1.75	0.68
6:K:445:ILE:HG21	6:K:449:THR:HG23	1.76	0.68
6:O:242:PHE:CE1	6:Q:36:LEU:HD11	2.27	0.68
6:O:412:ARG:HB3	6:Q:459:LEU:HD12	1.73	0.68
6:O:640:GLN:HE22	6:P:545:VAL:HG12	1.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:147:ARG:NH2	6:W:98:ALA:HA	2.08	0.68
6:U:246:THR:CB	6:W:154:ARG:HH11	2.07	0.68
6:U:298:PHE:O	6:V:418:ASN:CG	2.37	0.68
6:U:496:GLU:OE1	6:V:419:MET:HE3	1.94	0.68
2:B:437:ARG:CZ	4:D:173:ALA:O	2.42	0.68
3:C:795:ASP:HA	4:D:251:ASN:CG	2.18	0.68
4:D:259:PRO:CA	4:D:412:VAL:O	2.41	0.68
5:F:4:HIS:NE2	6:J:586:VAL:CG2	2.35	0.68
5:H:44:GLY:HA3	6:J:400:ALA:C	2.00	0.68
6:I:154:ARG:HD3	6:J:247:SER:C	2.18	0.68
6:I:333:PRO:O	6:J:411:VAL:HG11	1.93	0.68
6:I:412:ARG:HB3	6:K:459:LEU:HD12	1.72	0.68
6:J:459:LEU:HB2	6:K:414:GLN:NE2	1.93	0.68
6:J:619:ASP:HB2	6:K:284:VAL:CG1	2.19	0.68
5:N:193:GLY:HA2	6:P:364:PRO:HG2	1.62	0.68
6:O:36:LEU:HD23	6:P:253:VAL:CG1	2.10	0.68
6:O:298:PHE:CB	6:P:418:ASN:C	2.56	0.68
6:O:298:PHE:CE1	6:P:417:PHE:O	2.47	0.68
6:O:417:PHE:O	6:Q:298:PHE:CE1	2.47	0.68
6:O:445:ILE:HG21	6:O:449:THR:HG23	1.75	0.68
6:P:147:ARG:NH1	6:W:100:LYS:CG	2.57	0.68
6:Q:196:LEU:HA	6:Q:201:LEU:HD22	1.75	0.68
6:U:417:PHE:CA	6:W:298:PHE:HZ	1.72	0.68
6:U:537:SER:OG	6:W:165:THR:CA	2.39	0.68
5:G:191:LYS:O	6:I:364:PRO:CB	2.39	0.68
6:P:144:ASN:HD22	6:P:147:ARG:HE	1.40	0.68
6:U:298:PHE:CE1	6:V:416:ARG:CA	2.76	0.68
6:U:529:SER:HB3	6:V:473:GLU:HA	1.76	0.68
6:U:562:TYR:CG	6:W:194:LEU:HA	2.29	0.68
6:U:610:THR:CG2	6:W:30:ALA:CA	2.54	0.68
6:V:193:ILE:HA	6:W:562:TYR:HE1	1.48	0.68
6:V:496:GLU:OE1	6:W:419:MET:HE3	1.93	0.68
1:A:644:LEU:HD21	1:A:655:VAL:HB	1.76	0.67
2:B:662:LEU:HA	4:D:196:LEU:HD22	1.75	0.67
2:B:951:PRO:HG3	4:D:98:SER:C	2.18	0.67
3:C:388:MET:HA	3:C:1193:SER:HA	1.76	0.67
3:C:714:SER:C	3:C:726:ARG:HH22	1.74	0.67
6:I:33:ALA:HB1	6:J:256:SER:HB2	1.75	0.67
6:I:610:THR:CA	6:K:30:ALA:HB3	2.22	0.67
6:J:333:PRO:CD	6:K:411:VAL:HG13	2.23	0.67
6:J:357:ILE:HB	6:J:417:PHE:HB2	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:545:VAL:HG13	6:Q:640:GLN:NE2	1.95	0.67
6:U:418:ASN:HA	6:W:298:PHE:CA	2.21	0.67
6:U:459:LEU:CD1	6:V:412:ARG:N	2.52	0.67
6:U:612:SER:C	6:W:160:GLN:HE22	1.68	0.67
1:A:740:VAL:HG12	1:A:841:ARG:HH12	1.59	0.67
6:I:548:LYS:HE2	6:K:644:LEU:HB3	1.76	0.67
6:J:529:SER:C	6:K:472:ARG:CD	2.59	0.67
6:J:618:THR:HB	6:K:281:PRO:HG3	1.76	0.67
5:N:91:THR:HB	5:N:180:HIS:CE1	2.28	0.67
6:O:196:LEU:HA	6:O:201:LEU:HD22	1.76	0.67
6:O:538:ALA:N	6:Q:168:THR:CB	2.56	0.67
6:O:619:ASP:OD1	6:P:284:VAL:HG12	1.88	0.67
6:P:121:ALA:CB	6:Q:87:PHE:CZ	2.73	0.67
6:P:297:ALA:CA	6:Q:409:ILE:HD11	2.24	0.67
6:U:277:ASP:H	6:W:625:ARG:HH12	1.43	0.67
6:V:154:ARG:HH11	6:W:246:THR:HB	1.50	0.67
6:V:641:ILE:HG12	6:W:545:VAL:CG2	2.24	0.67
2:B:400:GLU:HG3	2:B:401:THR:H	1.59	0.67
2:B:1178:ARG:HD2	4:D:241:LEU:HD21	0.71	0.67
3:C:313:LYS:C	3:C:1196:ARG:CG	2.66	0.67
3:C:434:ILE:O	4:E:48:THR:HB	1.95	0.67
6:I:44:THR:CG2	6:J:84:LYS:HZ1	1.85	0.67
6:I:154:ARG:CD	6:J:247:SER:C	2.66	0.67
6:I:418:ASN:HA	6:K:298:PHE:CA	2.20	0.67
6:J:331:LEU:HD12	6:J:335:PRO:HG2	1.76	0.67
5:L:91:THR:HB	5:L:180:HIS:CE1	2.29	0.67
6:O:242:PHE:HE1	6:Q:82:PHE:CZ	2.12	0.67
6:O:354:SER:HB2	6:Q:295:ARG:HH22	1.58	0.67
6:P:148:THR:HG23	6:W:100:LYS:HG2	1.76	0.67
6:P:160:GLN:NE2	6:Q:612:SER:HB2	1.68	0.67
6:P:295:ARG:HH11	6:Q:419:MET:H	1.41	0.67
6:P:644:LEU:HB3	6:Q:548:LYS:HE2	1.74	0.67
6:U:44:THR:OG1	6:V:84:LYS:HE3	1.63	0.67
6:U:154:ARG:CD	6:V:247:SER:C	2.67	0.67
6:U:242:PHE:CE2	6:W:36:LEU:HD11	2.29	0.67
5:Y:176:LEU:HD22	5:Y:185:VAL:HG22	1.75	0.67
4:E:401:ALA:HB2	6:U:52:GLY:HA3	1.73	0.67
5:F:192:THR:O	6:K:364:PRO:HB2	1.93	0.67
6:I:44:THR:CB	6:J:84:LYS:HZ2	1.69	0.67
6:I:196:LEU:HA	6:I:201:LEU:HD22	1.76	0.67
6:I:416:ARG:HA	6:K:298:PHE:CZ	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:644:LEU:HB3	6:K:548:LYS:HE2	1.72	0.67
6:O:36:LEU:HD23	6:P:242:PHE:HB3	1.64	0.67
6:O:160:GLN:NE2	6:P:612:SER:HB2	1.67	0.67
6:O:610:THR:CG2	6:Q:30:ALA:CA	2.54	0.67
6:P:295:ARG:HH11	6:P:298:PHE:HB2	1.56	0.67
6:P:641:ILE:HG12	6:Q:545:VAL:CG2	2.25	0.67
5:S:91:THR:HB	5:S:180:HIS:CE1	2.27	0.67
5:T:2:PRO:CG	6:U:587:GLY:HA2	2.08	0.67
6:U:606:THR:HG22	6:W:28:SER:CB	2.16	0.67
6:V:458:THR:HA	6:W:412:ARG:HD2	1.10	0.67
6:W:431:ILE:HD13	6:W:437:ILE:HG12	1.77	0.67
5:F:91:THR:HB	5:F:180:HIS:CE1	2.28	0.67
6:I:417:PHE:O	6:K:298:PHE:CE1	2.47	0.67
6:I:606:THR:HG22	6:K:28:SER:CB	2.16	0.67
6:I:644:LEU:HD22	6:J:548:LYS:HZ2	0.85	0.67
6:K:408:ALA:HA	6:K:416:ARG:C	2.20	0.67
6:K:431:ILE:HD13	6:K:437:ILE:HG12	1.77	0.67
6:O:161:LYS:HZ2	6:P:534:SER:H	1.42	0.67
6:P:618:THR:HB	6:Q:281:PRO:HG3	1.76	0.67
6:Q:445:ILE:HG21	6:Q:449:THR:HG23	1.76	0.67
6:U:459:LEU:HD23	6:V:409:ILE:HG22	1.76	0.67
6:V:333:PRO:CD	6:W:411:VAL:HG13	2.25	0.67
6:V:357:ILE:HB	6:V:417:PHE:HB2	1.75	0.67
1:A:388:TYR:HA	1:A:789:ARG:HH22	1.60	0.67
1:A:568:ARG:HA	1:A:568:ARG:HE	1.60	0.67
2:B:882:PRO:CB	2:B:962:GLN:HE21	2.01	0.67
2:B:953:GLY:HA2	4:D:35:ARG:CD	1.84	0.67
3:C:715:VAL:HG21	3:C:726:ARG:NE	2.00	0.67
6:I:300:LYS:HE2	6:J:418:ASN:HD21	1.58	0.67
6:O:408:ALA:HA	6:O:416:ARG:C	2.19	0.67
6:P:431:ILE:HD13	6:P:437:ILE:HG12	1.77	0.67
6:P:529:SER:N	6:Q:283:SER:CB	2.58	0.67
6:Q:157:ALA:HA	6:Q:160:GLN:OE1	1.95	0.67
5:R:161:LEU:HD11	5:R:269:ASP:HB2	1.77	0.67
6:U:154:ARG:HD3	6:V:247:SER:C	2.19	0.67
6:U:411:VAL:HG21	6:W:333:PRO:C	1.95	0.67
6:V:618:THR:HB	6:W:281:PRO:HG3	1.77	0.67
6:X:282:VAL:HG21	6:X:473:GLU:HA	1.76	0.67
2:B:426:ASN:ND2	3:C:609:THR:CB	2.58	0.67
4:D:217:GLY:HA3	4:D:223:LEU:HD12	1.75	0.67
4:E:401:ALA:N	6:U:52:GLY:O	2.11	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:H:161:LEU:HD11	5:H:269:ASP:HB2	1.77	0.67
6:I:412:ARG:HD3	6:K:456:ASN:ND2	2.09	0.67
5:N:130:PHE:CD1	6:P:446:PRO:HB2	2.30	0.67
6:O:298:PHE:O	6:P:418:ASN:CG	2.36	0.67
6:O:333:PRO:O	6:P:411:VAL:HG11	1.93	0.67
6:U:408:ALA:HA	6:U:416:ARG:C	2.20	0.67
6:U:409:ILE:HD13	6:W:297:ALA:HA	1.75	0.67
6:V:154:ARG:HD3	6:W:248:GLU:N	2.08	0.67
6:W:445:ILE:HG21	6:W:449:THR:HG23	1.76	0.67
2:B:858:VAL:CG2	2:B:861:ARG:NH2	2.58	0.67
2:B:1165:SER:H	2:B:1168:ARG:NH1	1.93	0.67
3:C:377:ILE:CG2	3:C:381:VAL:CA	2.72	0.67
3:C:442:CYS:HB3	3:C:444:TRP:CZ3	2.30	0.67
4:D:388:PRO:O	6:P:54:SER:CB	2.43	0.67
5:G:194:LEU:HB2	6:I:447:SER:OG	1.95	0.67
6:I:160:GLN:HE22	6:J:612:SER:C	1.64	0.67
6:I:242:PHE:CE2	6:K:36:LEU:HD11	2.29	0.67
6:I:246:THR:CB	6:K:154:ARG:HH11	2.07	0.67
6:I:541:SER:OG	6:K:169:MET:N	2.26	0.67
6:J:445:ILE:HG21	6:J:449:THR:HG23	1.76	0.67
6:J:641:ILE:HG12	6:K:545:VAL:CG2	2.24	0.67
6:O:154:ARG:HD3	6:P:247:SER:C	2.19	0.67
6:O:300:LYS:HE2	6:P:418:ASN:HD21	1.58	0.67
6:U:33:ALA:HB1	6:V:256:SER:HB2	1.76	0.67
6:U:193:ILE:C	6:V:562:TYR:CD1	2.42	0.67
6:U:196:LEU:HA	6:U:201:LEU:HD22	1.75	0.67
6:U:609:ARG:O	6:W:32:PRO:CD	2.41	0.67
6:V:36:LEU:HD23	6:W:253:VAL:CG1	2.12	0.67
6:V:168:THR:C	6:W:541:SER:OG	2.38	0.67
6:I:157:ALA:HA	6:I:160:GLN:OE1	1.95	0.67
6:I:333:PRO:O	6:J:411:VAL:HG13	1.95	0.67
6:I:354:SER:HB2	6:K:295:ARG:HH22	1.55	0.67
6:I:417:PHE:CA	6:K:298:PHE:HZ	1.72	0.67
6:I:529:SER:HB3	6:J:473:GLU:HA	1.77	0.67
6:J:298:PHE:O	6:K:418:ASN:OD1	2.13	0.67
5:M:176:LEU:HD22	5:M:185:VAL:HG22	1.77	0.67
5:M:193:GLY:HA2	6:O:364:PRO:HG3	1.75	0.67
5:N:176:LEU:HD22	5:N:185:VAL:HG22	1.75	0.67
6:O:298:PHE:CE1	6:P:416:ARG:CB	2.78	0.67
6:O:545:VAL:CG2	6:Q:641:ILE:CG1	2.73	0.67
6:P:168:THR:C	6:Q:541:SER:OG	2.38	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:4:HIS:CE1	6:U:586:VAL:CA	2.78	0.67
6:U:84:LYS:HZ1	6:W:44:THR:CB	1.71	0.67
6:U:298:PHE:CE1	6:V:416:ARG:CB	2.78	0.67
6:V:295:ARG:CZ	6:W:354:SER:OG	2.43	0.67
6:X:357:ILE:HB	6:X:417:PHE:HB2	1.75	0.67
6:X:587:GLY:HA2	5:Y:2:PRO:CB	2.25	0.67
3:C:384:MET:HB2	3:C:1197:TYR:CZ	2.29	0.67
6:I:331:LEU:HD12	6:I:335:PRO:HG2	1.77	0.67
6:J:431:ILE:HD13	6:J:437:ILE:HG12	1.77	0.67
6:O:496:GLU:OE1	6:P:419:MET:HE3	1.94	0.67
6:O:610:THR:CB	6:Q:30:ALA:CB	2.70	0.67
6:P:44:THR:HA	6:Q:84:LYS:CE	2.16	0.67
6:P:196:LEU:HA	6:P:201:LEU:HD22	1.76	0.67
6:U:357:ILE:HB	6:U:417:PHE:HB2	1.77	0.67
6:V:459:LEU:HD23	6:W:412:ARG:NH1	2.10	0.67
6:V:529:SER:N	6:W:283:SER:CB	2.58	0.67
5:Y:161:LEU:HD11	5:Y:269:ASP:HB2	1.77	0.67
2:B:275:LYS:NZ	2:B:285:ASN:HA	2.09	0.66
2:B:380:GLU:O	3:C:798:VAL:CG2	2.39	0.66
2:B:1182:ASN:HB2	4:D:52:PRO:CA	2.24	0.66
5:G:161:LEU:HD11	5:G:269:ASP:HB2	1.77	0.66
6:I:84:LYS:HZ1	6:K:44:THR:HG22	1.57	0.66
6:I:277:ASP:H	6:K:625:ARG:HH12	1.43	0.66
6:J:36:LEU:HD23	6:K:253:VAL:CG1	2.13	0.66
6:J:196:LEU:HA	6:J:201:LEU:HD22	1.76	0.66
5:M:194:LEU:HB2	6:O:447:SER:OG	1.95	0.66
6:O:84:LYS:CE	6:Q:44:THR:HA	2.16	0.66
6:O:482:ASP:CG	6:Q:530:ARG:NH1	2.53	0.66
6:Q:357:ILE:HB	6:Q:417:PHE:HB2	1.76	0.66
5:T:161:LEU:HD11	5:T:269:ASP:HB2	1.77	0.66
6:V:295:ARG:HH11	6:V:298:PHE:HB2	1.60	0.66
6:V:297:ALA:CA	6:W:409:ILE:HD11	2.25	0.66
6:X:252:LEU:HD12	6:X:252:LEU:H	1.60	0.66
3:C:315:SER:OG	3:C:331:ARG:CZ	2.44	0.66
4:D:14:TYR:OH	6:P:55:VAL:CA	2.13	0.66
6:K:157:ALA:HA	6:K:160:GLN:OE1	1.96	0.66
5:M:91:THR:HB	5:M:180:HIS:CE1	2.28	0.66
6:O:418:ASN:HA	6:Q:298:PHE:CA	2.20	0.66
6:O:459:LEU:CA	6:P:412:ARG:NE	2.38	0.66
6:P:333:PRO:CD	6:Q:411:VAL:HG13	2.24	0.66
5:R:4:HIS:CB	6:V:586:VAL:CG2	2.71	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:331:LEU:HD12	6:V:335:PRO:HG2	1.76	0.66
1:A:397:PRO:HB2	1:A:399:ARG:HH12	1.60	0.66
2:B:380:GLU:CB	3:C:798:VAL:HG22	2.25	0.66
3:C:525:TYR:HA	3:C:528:PHE:CE1	2.31	0.66
3:C:714:SER:HA	3:C:726:ARG:NH2	2.07	0.66
6:I:431:ILE:HD13	6:I:437:ILE:HG12	1.77	0.66
6:I:496:GLU:OE1	6:J:419:MET:HE3	1.94	0.66
6:O:157:ALA:HA	6:O:160:GLN:OE1	1.95	0.66
6:O:331:LEU:HD12	6:O:335:PRO:HG2	1.78	0.66
6:P:36:LEU:HD21	6:Q:242:PHE:HB3	0.69	0.66
5:S:194:LEU:CB	6:U:447:SER:OG	2.42	0.66
5:T:44:GLY:HA3	6:V:400:ALA:C	1.99	0.66
6:U:409:ILE:HG22	6:W:459:LEU:HD23	1.76	0.66
6:V:121:ALA:CB	6:W:87:PHE:CZ	2.73	0.66
6:V:445:ILE:HG21	6:V:449:THR:HG23	1.76	0.66
6:W:331:LEU:HD12	6:W:335:PRO:HG2	1.78	0.66
1:A:482:PRO:HD2	1:A:485:ARG:NH1	2.11	0.66
3:C:743:THR:HG23	3:C:825:GLY:HA3	1.76	0.66
5:H:4:HIS:CE1	6:I:586:VAL:CA	2.79	0.66
6:O:431:ILE:HD13	6:O:437:ILE:HG12	1.78	0.66
6:O:456:ASN:ND2	6:P:412:ARG:HA	1.73	0.66
6:P:445:ILE:HG21	6:P:449:THR:HG23	1.76	0.66
6:Q:331:LEU:HD12	6:Q:335:PRO:HG2	1.76	0.66
6:U:87:PHE:CE2	6:W:121:ALA:HB2	2.27	0.66
6:U:622:GLU:HB2	6:V:281:PRO:CD	2.24	0.66
6:V:165:THR:HG22	6:W:534:SER:C	2.18	0.66
2:B:880:LEU:O	4:D:32:CYS:CA	2.44	0.66
2:B:951:PRO:HG2	4:D:37:TRP:HZ3	1.58	0.66
3:C:377:ILE:CG2	3:C:380:GLU:HA	2.25	0.66
6:I:242:PHE:CD1	6:K:36:LEU:CD1	2.77	0.66
6:I:640:GLN:NE2	6:J:545:VAL:HG13	1.99	0.66
6:J:297:ALA:CA	6:K:409:ILE:HD11	2.24	0.66
6:K:331:LEU:HD12	6:K:335:PRO:HG2	1.77	0.66
6:O:33:ALA:HB1	6:P:256:SER:HB2	1.78	0.66
6:O:529:SER:HB3	6:P:473:GLU:HA	1.75	0.66
6:Q:431:ILE:HD13	6:Q:437:ILE:HG12	1.77	0.66
5:R:35:PHE:CZ	5:R:71:CYS:HA	2.31	0.66
5:R:105:ASP:HB2	5:R:111:VAL:HB	1.78	0.66
5:S:193:GLY:HA2	6:U:364:PRO:HG3	1.76	0.66
6:U:445:ILE:HG21	6:U:449:THR:HG23	1.76	0.66
6:V:252:LEU:H	6:V:252:LEU:HD12	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:X:587:GLY:O	5:Y:2:PRO:CG	2.34	0.66
1:A:1198:LEU:HB3	1:A:1296:TYR:CE1	2.30	0.66
2:B:1019:THR:HB	2:B:1032:ILE:HD13	1.78	0.66
3:C:376:LEU:HD22	4:E:191:ARG:C	2.20	0.66
4:E:400:THR:HG21	6:U:53:THR:HG23	1.73	0.66
6:I:36:LEU:HD23	6:J:242:PHE:HB3	1.63	0.66
5:N:161:LEU:HD11	5:N:269:ASP:HB2	1.77	0.66
6:O:154:ARG:NH1	6:P:246:THR:CB	2.53	0.66
6:O:357:ILE:HB	6:O:417:PHE:HB2	1.77	0.66
6:P:160:GLN:CG	6:Q:612:SER:HB2	1.95	0.66
5:S:131:ARG:HE	6:U:448:PRO:HG2	1.58	0.66
5:T:53:LEU:HD12	5:T:222:LEU:HB2	1.78	0.66
5:Y:35:PHE:CZ	5:Y:71:CYS:HA	2.30	0.66
1:A:402:PRO:HB3	1:A:780:LEU:HD22	1.78	0.66
3:C:314:SER:C	3:C:1196:ARG:HE	1.99	0.66
6:O:44:THR:CA	6:P:84:LYS:CE	2.46	0.66
6:O:458:THR:HA	6:P:412:ARG:HG2	1.78	0.66
5:S:35:PHE:CZ	5:S:71:CYS:HA	2.30	0.66
6:U:160:GLN:HE22	6:V:612:SER:C	1.66	0.66
6:W:408:ALA:HA	6:W:416:ARG:C	2.21	0.66
6:X:331:LEU:HD12	6:X:335:PRO:HG2	1.76	0.66
1:A:475:LEU:HD21	1:A:695:ILE:HB	1.77	0.66
1:A:618:LEU:HB2	1:A:657:LEU:HB2	1.78	0.66
2:B:858:VAL:HA	2:B:861:ARG:CZ	2.26	0.66
5:G:4:HIS:CE1	6:K:587:GLY:HA3	2.12	0.66
5:H:105:ASP:HB2	5:H:111:VAL:HB	1.78	0.66
6:I:408:ALA:HA	6:I:416:ARG:C	2.21	0.66
6:I:409:ILE:HD13	6:K:297:ALA:HA	1.76	0.66
6:J:459:LEU:CB	6:K:412:ARG:HB2	2.23	0.66
6:O:72:SER:OG	6:P:235:LEU:CD1	2.44	0.66
6:O:150:ALA:O	6:O:154:ARG:HG3	1.95	0.66
6:O:154:ARG:CD	6:P:247:SER:C	2.67	0.66
6:O:433:GLY:O	6:O:435:PRO:HD2	1.95	0.66
6:O:613:LEU:HD23	6:Q:32:PRO:O	1.85	0.66
6:W:157:ALA:HA	6:W:160:GLN:OE1	1.95	0.66
3:C:381:VAL:CG1	3:C:439:THR:CG2	2.68	0.66
4:E:291:THR:HG23	4:E:296:LEU:HD13	1.77	0.66
6:I:409:ILE:HG22	6:K:459:LEU:HD23	1.77	0.66
6:I:445:ILE:HG21	6:I:449:THR:HG23	1.76	0.66
6:J:36:LEU:CD2	6:K:242:PHE:CG	2.71	0.66
6:J:121:ALA:CB	6:K:87:PHE:CZ	2.74	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:252:LEU:H	6:J:252:LEU:HD12	1.61	0.66
6:J:456:ASN:HB2	6:K:412:ARG:HA	1.76	0.66
6:J:622:GLU:HG3	6:K:279:PRO:O	1.95	0.66
6:O:242:PHE:CE2	6:Q:36:LEU:HD11	2.30	0.66
6:O:612:SER:HB2	6:Q:160:GLN:NE2	1.68	0.66
6:O:618:THR:HB	6:P:281:PRO:HG3	1.78	0.66
6:P:44:THR:CG2	6:Q:84:LYS:HZ1	1.89	0.66
6:P:298:PHE:HE2	6:Q:417:PHE:HA	0.92	0.66
6:U:283:SER:O	6:W:528:ALA:HB2	1.96	0.66
6:U:417:PHE:HA	6:W:298:PHE:HE2	0.88	0.66
6:V:298:PHE:O	6:W:418:ASN:OD1	2.14	0.66
6:V:619:ASP:HB2	6:W:284:VAL:CG1	2.18	0.66
6:W:196:LEU:HA	6:W:201:LEU:HD22	1.75	0.66
2:B:452:ARG:HD2	2:B:668:LEU:CD2	2.26	0.66
5:F:53:LEU:HD12	5:F:222:LEU:HB2	1.78	0.66
6:J:295:ARG:CZ	6:K:354:SER:OG	2.44	0.66
6:J:456:ASN:HD21	6:K:412:ARG:CD	2.09	0.66
6:J:529:SER:N	6:K:283:SER:CB	2.56	0.66
6:O:242:PHE:CZ	6:Q:36:LEU:HD11	2.31	0.66
6:Q:408:ALA:HA	6:Q:416:ARG:C	2.20	0.66
5:T:130:PHE:CD1	6:V:446:PRO:HB2	2.30	0.66
6:U:300:LYS:HE2	6:V:418:ASN:HD21	1.58	0.66
6:U:610:THR:CA	6:W:30:ALA:HB3	2.22	0.66
6:V:299:ILE:HD13	6:W:419:MET:CE	2.16	0.66
6:V:456:ASN:HD21	6:W:412:ARG:N	1.88	0.66
4:D:300:ILE:HG21	4:D:325:CYS:HB2	1.77	0.65
6:I:242:PHE:CE1	6:K:36:LEU:HD11	2.29	0.65
6:O:87:PHE:CE2	6:Q:121:ALA:HB2	2.27	0.65
6:U:84:LYS:HZ2	6:W:44:THR:CB	1.70	0.65
6:U:150:ALA:O	6:U:154:ARG:HG3	1.96	0.65
6:U:253:VAL:CG1	6:W:36:LEU:HD23	2.11	0.65
6:U:331:LEU:HD12	6:U:335:PRO:HG2	1.77	0.65
6:U:418:ASN:CB	6:W:300:LYS:NZ	2.53	0.65
1:A:55:SER:HB2	1:A:81:TYR:H	1.60	0.65
3:C:384:MET:SD	3:C:1197:TYR:OH	2.54	0.65
3:C:424:ALA:HA	3:C:757:VAL:HG23	1.79	0.65
6:I:72:SER:OG	6:J:235:LEU:CD1	2.44	0.65
6:I:150:ALA:O	6:I:154:ARG:HG3	1.96	0.65
6:I:357:ILE:HB	6:I:417:PHE:HB2	1.77	0.65
6:J:459:LEU:HD23	6:K:412:ARG:NH1	2.10	0.65
5:N:4:HIS:CE1	6:O:586:VAL:CA	2.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:534:SER:CB	6:Q:161:LYS:O	2.44	0.65
6:O:548:LYS:HE2	6:Q:644:LEU:HB3	1.76	0.65
6:P:169:MET:C	6:Q:541:SER:HB3	2.13	0.65
6:P:295:ARG:CZ	6:Q:354:SER:OG	2.45	0.65
6:P:640:GLN:NE2	6:Q:545:VAL:HG13	1.89	0.65
6:Q:433:GLY:O	6:Q:435:PRO:HD2	1.96	0.65
5:T:176:LEU:HD22	5:T:185:VAL:HG22	1.76	0.65
6:U:431:ILE:HD13	6:U:437:ILE:HG12	1.78	0.65
6:V:298:PHE:HE2	6:W:417:PHE:HA	0.89	0.65
6:I:36:LEU:CG	6:J:253:VAL:HG13	2.26	0.65
6:I:419:MET:H	6:K:298:PHE:HB3	1.61	0.65
6:I:534:SER:CB	6:K:161:LYS:O	2.43	0.65
6:I:644:LEU:HA	6:J:548:LYS:HE3	1.70	0.65
6:J:36:LEU:HD21	6:K:242:PHE:HB3	0.68	0.65
6:O:44:THR:CB	6:P:84:LYS:HZ1	1.69	0.65
6:O:278:THR:OG1	6:Q:625:ARG:HD2	1.96	0.65
6:O:577:VAL:HG12	6:P:471:LEU:CD2	2.25	0.65
6:P:298:PHE:O	6:Q:418:ASN:OD1	2.13	0.65
6:P:459:LEU:HD23	6:Q:412:ARG:NH1	2.11	0.65
5:S:194:LEU:HB2	6:U:447:SER:OG	1.96	0.65
6:U:482:ASP:CG	6:W:530:ARG:NH1	2.53	0.65
6:U:577:VAL:HG12	6:V:471:LEU:CD2	2.26	0.65
6:X:431:ILE:HD13	6:X:437:ILE:HG12	1.77	0.65
6:X:445:ILE:HG21	6:X:449:THR:HG23	1.77	0.65
1:A:687:ALA:HA	1:A:690:ARG:HE	1.61	0.65
5:H:4:HIS:ND1	6:I:586:VAL:CG2	2.44	0.65
5:H:130:PHE:CD1	6:J:446:PRO:HB2	2.31	0.65
6:I:281:PRO:CD	6:K:622:GLU:HB2	2.27	0.65
6:K:357:ILE:HB	6:K:417:PHE:HB2	1.77	0.65
5:M:4:HIS:ND1	6:Q:586:VAL:CG2	2.42	0.65
6:O:459:LEU:CD1	6:P:412:ARG:N	2.52	0.65
6:O:622:GLU:HB2	6:P:281:PRO:CD	2.24	0.65
6:P:433:GLY:O	6:P:435:PRO:HD2	1.96	0.65
6:U:72:SER:OG	6:V:235:LEU:CD1	2.43	0.65
6:U:253:VAL:CG1	6:W:36:LEU:CG	2.74	0.65
6:U:284:VAL:HG12	6:W:619:ASP:OD1	1.89	0.65
6:X:433:GLY:O	6:X:435:PRO:HD2	1.97	0.65
2:B:414:THR:HG21	4:D:173:ALA:HB2	1.79	0.65
2:B:1213:ALA:C	3:C:552:ASP:CB	2.69	0.65
6:I:252:LEU:H	6:I:252:LEU:HD12	1.62	0.65
6:I:283:SER:O	6:K:528:ALA:HB2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:528:ALA:HB2	6:J:283:SER:O	1.96	0.65
6:I:545:VAL:CG2	6:K:641:ILE:CG1	2.75	0.65
5:M:35:PHE:CZ	5:M:71:CYS:HA	2.32	0.65
6:O:87:PHE:CZ	6:Q:121:ALA:CB	2.80	0.65
6:O:246:THR:CB	6:Q:154:ARG:HH11	2.08	0.65
6:O:417:PHE:HA	6:Q:298:PHE:HE2	0.88	0.65
6:O:641:ILE:HG12	6:P:545:VAL:HG13	1.68	0.65
6:P:168:THR:CB	6:Q:538:ALA:N	2.59	0.65
6:U:275:GLU:CG	6:W:630:LEU:HD11	2.22	0.65
6:V:457:PRO:HG3	6:W:411:VAL:HG13	1.73	0.65
2:B:328:ARG:NE	2:B:328:ARG:HA	2.12	0.65
4:D:389:PHE:CB	6:P:54:SER:HA	2.08	0.65
6:O:412:ARG:HD3	6:Q:456:ASN:ND2	2.09	0.65
6:P:331:LEU:HD12	6:P:335:PRO:HG2	1.78	0.65
6:U:193:ILE:HA	6:V:562:TYR:HE1	1.53	0.65
6:U:644:LEU:HB3	6:V:548:LYS:HE2	1.75	0.65
5:F:161:LEU:HD11	5:F:269:ASP:HB2	1.78	0.65
6:J:154:ARG:HD3	6:K:247:SER:C	2.21	0.65
5:L:161:LEU:HD11	5:L:269:ASP:HB2	1.77	0.65
6:P:33:ALA:HB1	6:Q:256:SER:CA	2.26	0.65
5:R:5:MET:HE3	6:V:494:THR:CG2	2.04	0.65
5:S:161:LEU:HD11	5:S:269:ASP:HB2	1.77	0.65
6:X:376:ILE:HB	6:X:438:TYR:HB2	1.79	0.65
2:B:376:LEU:HD11	3:C:795:ASP:CG	2.21	0.65
2:B:1211:ARG:CZ	3:C:611:PRO:CG	2.62	0.65
6:I:87:PHE:CE2	6:K:121:ALA:HB2	2.27	0.65
6:I:412:ARG:NE	6:K:458:THR:HA	2.04	0.65
6:O:252:LEU:H	6:O:252:LEU:HD12	1.61	0.65
5:R:91:THR:HB	5:R:180:HIS:CE1	2.29	0.65
6:U:376:ILE:HB	6:U:438:TYR:HB2	1.79	0.65
6:U:412:ARG:N	6:W:456:ASN:HD21	1.88	0.65
6:U:534:SER:CB	6:W:161:LYS:O	2.44	0.65
6:V:433:GLY:O	6:V:435:PRO:HD2	1.97	0.65
1:A:16:SER:O	1:A:364:PRO:HG3	1.97	0.65
2:B:378:GLY:O	3:C:798:VAL:HG12	1.34	0.65
2:B:408:SER:HB2	4:D:191:ARG:NH2	2.00	0.65
2:B:429:ASN:HD22	3:C:611:PRO:HG2	1.58	0.65
3:C:715:VAL:CA	3:C:726:ARG:NH2	2.58	0.65
4:E:331:VAL:HG22	4:E:360:THR:HG22	1.77	0.65
5:G:35:PHE:CZ	5:G:71:CYS:HA	2.30	0.65
5:H:35:PHE:CZ	5:H:71:CYS:HA	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:278:THR:OG1	6:K:625:ARG:HD2	1.97	0.65
6:I:622:GLU:HG2	6:J:279:PRO:C	2.21	0.65
6:J:34:ILE:C	6:K:256:SER:HG	2.00	0.65
6:J:168:THR:CB	6:K:538:ALA:N	2.59	0.65
6:O:281:PRO:CD	6:Q:622:GLU:HB2	2.27	0.65
6:O:530:ARG:N	6:P:472:ARG:HD2	1.98	0.65
6:U:44:THR:CA	6:V:84:LYS:CE	2.45	0.65
1:A:248:LEU:CD2	2:B:627:ASN:ND2	2.60	0.65
1:A:1141:PRO:HA	1:A:1142:ARG:NH1	2.11	0.65
3:C:885:LEU:CG	3:C:965:GLU:OE2	2.38	0.65
4:E:400:THR:CA	6:U:52:GLY:C	2.69	0.65
6:I:232:ALA:HB1	6:K:66:ASP:HB3	1.74	0.65
6:I:299:ILE:HD11	6:J:419:MET:HE1	1.77	0.65
6:J:433:GLY:O	6:J:435:PRO:HD2	1.97	0.65
6:O:84:LYS:HZ2	6:Q:44:THR:CB	1.71	0.65
6:P:252:LEU:HD12	6:P:252:LEU:H	1.62	0.65
6:P:459:LEU:HD21	6:Q:409:ILE:O	1.97	0.65
6:U:193:ILE:HG22	6:V:562:TYR:CE2	2.22	0.65
6:U:373:PHE:HB3	6:U:398:SER:HB2	1.78	0.65
6:U:562:TYR:CE1	6:W:193:ILE:HG23	2.22	0.65
6:U:618:THR:HB	6:V:281:PRO:HG3	1.79	0.65
6:V:33:ALA:HB3	6:W:256:SER:HA	1.78	0.65
6:V:160:GLN:NE2	6:W:612:SER:HB2	1.70	0.65
2:B:580:HIS:NE2	2:B:618:PRO:HD3	2.11	0.64
2:B:952:PRO:CA	4:D:35:ARG:HH21	2.05	0.64
4:D:174:LEU:HD11	4:D:211:LEU:HD21	1.79	0.64
6:I:295:ARG:NH1	6:I:298:PHE:HB2	2.12	0.64
6:I:376:ILE:HB	6:I:438:TYR:HB2	1.79	0.64
6:J:29:THR:OG1	6:K:609:ARG:HG2	1.98	0.64
6:J:33:ALA:HB1	6:K:256:SER:CA	2.27	0.64
5:M:161:LEU:HD11	5:M:269:ASP:HB2	1.78	0.64
6:O:253:VAL:CG1	6:Q:36:LEU:CG	2.74	0.64
6:P:32:PRO:CD	6:Q:609:ARG:O	2.45	0.64
6:U:44:THR:HG22	6:V:84:LYS:HZ1	1.57	0.64
6:U:66:ASP:HB3	6:V:232:ALA:HB1	1.68	0.64
6:U:242:PHE:CD1	6:W:36:LEU:CD1	2.78	0.64
6:X:587:GLY:HA2	5:Y:2:PRO:CG	2.24	0.64
2:B:365:ALA:O	2:B:368:ILE:HG12	1.97	0.64
2:B:750:MET:O	2:B:754:GLU:HG3	1.97	0.64
6:I:433:GLY:O	6:I:435:PRO:HD2	1.96	0.64
6:I:622:GLU:CB	6:J:280:LEU:HA	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:53:LEU:HD12	5:L:222:LEU:HB2	1.80	0.64
6:O:165:THR:O	6:P:537:SER:OG	2.15	0.64
6:O:373:PHE:HB3	6:O:398:SER:HB2	1.79	0.64
6:P:333:PRO:CB	6:Q:411:VAL:HG22	2.27	0.64
6:U:154:ARG:NH1	6:V:246:THR:CB	2.52	0.64
6:U:295:ARG:HH12	6:V:419:MET:HA	1.62	0.64
2:B:310:LYS:HG3	2:B:399:ARG:NH2	2.12	0.64
2:B:312:ASN:HD22	2:B:1196:ARG:NH1	1.96	0.64
2:B:437:ARG:NH1	4:D:173:ALA:HB2	2.08	0.64
2:B:868:ARG:HD2	2:B:879:PHE:CD1	2.32	0.64
3:C:303:GLN:HA	3:C:306:LEU:HD12	1.80	0.64
3:C:377:ILE:CG2	3:C:380:GLU:CA	2.76	0.64
3:C:1064:TRP:HB3	3:C:1065:PRO:HD3	1.78	0.64
4:E:238:LYS:HB3	4:E:241:LEU:HD12	1.78	0.64
5:G:105:ASP:HB2	5:G:111:VAL:HB	1.80	0.64
6:I:165:THR:O	6:J:537:SER:OG	2.14	0.64
6:I:242:PHE:CZ	6:K:36:LEU:HD11	2.32	0.64
6:I:562:TYR:CD1	6:K:193:ILE:HG22	2.18	0.64
6:I:577:VAL:HG12	6:J:471:LEU:CD2	2.27	0.64
6:K:50:PRO:HD3	6:K:118:TYR:CE1	2.33	0.64
6:K:376:ILE:HB	6:K:438:TYR:HB2	1.79	0.64
6:K:433:GLY:O	6:K:435:PRO:HD2	1.97	0.64
5:N:6:ILE:HB	5:N:7:PRO:HD3	1.79	0.64
6:O:283:SER:O	6:Q:528:ALA:HB2	1.96	0.64
6:U:412:ARG:HA	6:W:456:ASN:OD1	1.88	0.64
6:U:533:ASP:C	6:W:161:LYS:HZ1	2.06	0.64
6:V:168:THR:CB	6:W:538:ALA:N	2.57	0.64
6:X:587:GLY:CA	5:Y:2:PRO:CB	2.75	0.64
5:Y:6:ILE:HB	5:Y:7:PRO:HD3	1.80	0.64
5:Y:53:LEU:HD12	5:Y:222:LEU:HB2	1.80	0.64
3:C:686:ARG:HH11	3:C:689:VAL:HG22	1.62	0.64
5:F:105:ASP:HB2	5:F:111:VAL:HB	1.80	0.64
5:G:53:LEU:HD12	5:G:222:LEU:HB2	1.79	0.64
6:I:253:VAL:CG1	6:K:36:LEU:CG	2.75	0.64
6:J:376:ILE:HB	6:J:438:TYR:HB2	1.80	0.64
6:K:252:LEU:H	6:K:252:LEU:HD12	1.63	0.64
6:O:409:ILE:HD13	6:Q:297:ALA:HA	1.77	0.64
6:O:419:MET:CE	6:Q:299:ILE:HD13	2.24	0.64
5:R:4:HIS:ND1	6:V:586:VAL:HG22	2.08	0.64
6:U:252:LEU:HD12	6:U:252:LEU:H	1.62	0.64
6:U:458:THR:HA	6:V:412:ARG:HG2	1.77	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:528:ALA:HB2	6:V:283:SER:O	1.97	0.64
6:W:376:ILE:HB	6:W:438:TYR:HB2	1.79	0.64
1:A:1046:GLN:NE2	1:A:1047:GLN:HG2	2.13	0.64
6:I:298:PHE:CE1	6:J:416:ARG:CB	2.80	0.64
6:I:412:ARG:HH22	6:K:459:LEU:CD2	1.80	0.64
6:J:36:LEU:O	6:K:253:VAL:HG11	1.97	0.64
6:J:119:VAL:HG23	6:J:131:VAL:HB	1.80	0.64
5:L:130:PHE:CD1	6:Q:446:PRO:HB2	2.33	0.64
5:L:174:LYS:O	5:L:186:LEU:HA	1.98	0.64
5:S:4:HIS:HB3	6:W:586:VAL:CG2	2.01	0.64
5:S:105:ASP:HB2	5:S:111:VAL:HB	1.79	0.64
5:T:5:MET:HG3	6:U:494:THR:CG2	2.28	0.64
6:W:433:GLY:O	6:W:435:PRO:HD2	1.97	0.64
2:B:266:PRO:HB2	2:B:1085:LEU:HD12	1.80	0.64
4:D:215:TRP:HZ2	4:D:279:VAL:HB	1.62	0.64
5:F:4:HIS:CB	6:J:586:VAL:CG2	2.70	0.64
5:F:6:ILE:HB	5:F:7:PRO:HD3	1.80	0.64
5:G:44:GLY:HA3	6:I:400:ALA:CA	1.81	0.64
6:I:30:ALA:CB	6:J:610:THR:HA	2.22	0.64
6:I:154:ARG:NH1	6:J:246:THR:CB	2.52	0.64
6:J:157:ALA:HA	6:J:160:GLN:OE1	1.97	0.64
6:J:333:PRO:C	6:K:411:VAL:HG21	2.00	0.64
5:L:35:PHE:CZ	5:L:71:CYS:HA	2.32	0.64
5:N:53:LEU:HD12	5:N:222:LEU:HB2	1.80	0.64
6:O:275:GLU:HG3	6:Q:630:LEU:HD11	1.78	0.64
6:O:295:ARG:HH12	6:P:419:MET:HA	1.61	0.64
6:O:333:PRO:O	6:P:411:VAL:HG13	1.94	0.64
6:O:418:ASN:ND2	6:Q:300:LYS:HZ1	1.74	0.64
6:O:459:LEU:HD21	6:P:409:ILE:O	1.98	0.64
6:P:147:ARG:CZ	6:W:100:LYS:CG	2.73	0.64
6:U:122:THR:CG2	6:V:90:ASN:HB2	2.28	0.64
6:U:242:PHE:CZ	6:W:36:LEU:HD11	2.33	0.64
6:U:622:GLU:CB	6:V:280:LEU:HA	2.27	0.64
4:D:392:ALA:N	6:P:49:ARG:HH22	1.86	0.64
5:F:35:PHE:CZ	5:F:71:CYS:HA	2.32	0.64
6:I:121:ALA:HB2	6:J:87:PHE:CE2	2.29	0.64
6:I:459:LEU:HD23	6:J:409:ILE:HG22	1.76	0.64
6:K:373:PHE:HB3	6:K:398:SER:HB2	1.80	0.64
5:L:45:ARG:N	6:Q:400:ALA:HA	2.12	0.64
6:P:622:GLU:HG3	6:Q:279:PRO:O	1.97	0.64
5:T:147:HIS:HB3	5:T:168:PRO:HG2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:147:HIS:HB3	5:Y:168:PRO:HG2	1.80	0.64
1:A:919:PRO:HA	1:A:922:VAL:HB	1.80	0.64
2:B:384:MET:HE1	2:B:1197:TYR:OH	1.52	0.64
3:C:1056:VAL:HA	3:C:1059:PHE:CD2	2.32	0.64
5:H:5:MET:HG3	6:I:494:THR:CG2	2.28	0.64
5:H:26:THR:HB	5:H:38:ALA:HA	1.80	0.64
6:I:146:GLN:HE22	6:J:241:ALA:HB1	1.63	0.64
6:I:459:LEU:CA	6:J:412:ARG:NE	2.38	0.64
6:O:170:LEU:N	6:P:541:SER:HB3	2.12	0.64
6:O:278:THR:OG1	6:Q:625:ARG:CD	2.45	0.64
6:Q:252:LEU:H	6:Q:252:LEU:HD12	1.62	0.64
5:T:26:THR:HB	5:T:38:ALA:HA	1.79	0.64
6:U:194:LEU:HA	6:V:562:TYR:CD2	2.33	0.64
6:U:644:LEU:HD22	6:V:548:LYS:HZ2	0.81	0.64
6:V:295:ARG:NH1	6:W:354:SER:OG	2.31	0.64
6:V:619:ASP:OD1	6:W:284:VAL:HG12	1.93	0.64
6:W:373:PHE:HB3	6:W:398:SER:HB2	1.80	0.64
6:W:562:TYR:CD1	6:W:562:TYR:N	2.66	0.64
2:B:353:GLN:CD	3:C:1020:ILE:O	2.40	0.64
2:B:611:PRO:HG2	2:B:614:GLN:NE2	2.13	0.64
2:B:882:PRO:CB	2:B:962:GLN:HE22	1.87	0.64
3:C:1019:THR:O	3:C:1031:LEU:HG	1.96	0.64
6:I:482:ASP:CG	6:K:530:ARG:NH1	2.55	0.64
6:J:32:PRO:CD	6:K:609:ARG:O	2.46	0.64
6:J:50:PRO:HD3	6:J:118:TYR:CE1	2.33	0.64
5:L:26:THR:HB	5:L:38:ALA:HA	1.80	0.64
5:L:105:ASP:HB2	5:L:111:VAL:HB	1.80	0.64
6:O:36:LEU:O	6:P:253:VAL:CG1	2.45	0.64
6:O:146:GLN:HE22	6:P:241:ALA:HB1	1.62	0.64
6:O:528:ALA:HB2	6:P:283:SER:O	1.97	0.64
6:O:622:GLU:CB	6:P:280:LEU:HA	2.28	0.64
6:O:641:ILE:CG1	6:P:545:VAL:HG21	2.28	0.64
6:P:157:ALA:HA	6:P:160:GLN:OE1	1.97	0.64
6:P:408:ALA:HA	6:P:416:ARG:C	2.23	0.64
6:U:278:THR:OG1	6:W:625:ARG:HD2	1.97	0.64
6:V:33:ALA:HB1	6:W:256:SER:CA	2.27	0.64
3:C:381:VAL:CG1	3:C:439:THR:CB	2.75	0.64
3:C:436:LEU:CD2	4:E:43:HIS:CD2	2.76	0.64
6:J:459:LEU:HD21	6:K:409:ILE:O	1.98	0.64
5:M:6:ILE:HB	5:M:7:PRO:HD3	1.80	0.64
5:N:5:MET:HG3	6:O:494:THR:CG2	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:35:PHE:CZ	5:N:71:CYS:HA	2.32	0.64
5:N:44:GLY:HA3	6:P:400:ALA:C	1.98	0.64
6:O:277:ASP:H	6:Q:625:ARG:HH12	1.43	0.64
6:O:622:GLU:HG2	6:P:279:PRO:C	2.22	0.64
6:Q:373:PHE:HB3	6:Q:398:SER:HB2	1.79	0.64
6:U:36:LEU:O	6:V:253:VAL:CG1	2.46	0.64
6:U:417:PHE:O	6:W:298:PHE:CE1	2.49	0.64
6:U:630:LEU:HD11	6:V:275:GLU:HG3	1.76	0.64
6:V:300:LYS:HZ1	6:W:418:ASN:CB	2.10	0.64
1:A:26:ARG:NH1	1:A:27:PHE:HB3	2.12	0.63
1:A:478:ARG:NE	1:A:478:ARG:HA	2.12	0.63
5:G:6:ILE:HB	5:G:7:PRO:HD3	1.80	0.63
5:H:147:HIS:HB3	5:H:168:PRO:HG2	1.80	0.63
5:N:105:ASP:HB2	5:N:111:VAL:HB	1.80	0.63
6:O:618:THR:HB	6:P:281:PRO:CG	2.27	0.63
6:P:147:ARG:HB3	6:W:100:LYS:CE	2.27	0.63
5:R:45:ARG:N	6:W:400:ALA:HA	2.11	0.63
5:S:147:HIS:HB3	5:S:168:PRO:HG2	1.80	0.63
5:S:191:LYS:O	6:U:364:PRO:CB	2.40	0.63
5:T:35:PHE:CZ	5:T:71:CYS:HA	2.32	0.63
6:U:36:LEU:CG	6:V:253:VAL:HG13	2.27	0.63
6:U:247:SER:C	6:W:154:ARG:HD3	2.23	0.63
6:U:433:GLY:O	6:U:435:PRO:HD2	1.97	0.63
6:U:618:THR:HB	6:V:281:PRO:CG	2.28	0.63
6:V:50:PRO:HD3	6:V:118:TYR:CE1	2.33	0.63
6:V:299:ILE:HD13	6:W:419:MET:HE1	1.74	0.63
2:B:294:ARG:NH2	2:B:886:ASP:HA	2.13	0.63
2:B:310:LYS:HG3	2:B:399:ARG:CZ	2.29	0.63
2:B:882:PRO:HB3	2:B:962:GLN:NE2	2.09	0.63
3:C:626:LEU:HA	3:C:647:ARG:NH2	2.14	0.63
6:I:606:THR:HG22	6:I:609:ARG:CZ	2.29	0.63
6:J:33:ALA:HB3	6:K:256:SER:HA	1.79	0.63
6:J:160:GLN:HE22	6:K:612:SER:C	1.73	0.63
6:J:456:ASN:HD21	6:K:412:ARG:N	1.86	0.63
6:J:459:LEU:HD23	6:K:409:ILE:CG2	2.27	0.63
6:O:577:VAL:HG12	6:P:471:LEU:HD22	1.80	0.63
6:P:622:GLU:CB	6:Q:281:PRO:HD3	2.28	0.63
6:P:641:ILE:HG13	6:Q:545:VAL:HG11	0.64	0.63
5:S:53:LEU:HD12	5:S:222:LEU:HB2	1.80	0.63
6:U:29:THR:CB	6:V:609:ARG:HG3	2.13	0.63
6:U:50:PRO:HD3	6:U:118:TYR:CE1	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:548:LYS:HZ2	6:W:644:LEU:CD2	1.78	0.63
6:V:195:PRO:HD3	6:W:562:TYR:CD2	2.33	0.63
6:V:320:LEU:HD12	6:V:326:THR:HG23	1.81	0.63
6:X:50:PRO:HD3	6:X:118:TYR:CE1	2.33	0.63
1:A:404:TYR:CE1	1:A:863:LEU:HB2	2.33	0.63
3:C:373:ARG:O	3:C:375:ASN:N	2.32	0.63
6:I:298:PHE:CB	6:J:419:MET:N	2.60	0.63
6:I:618:THR:HB	6:J:281:PRO:HG3	1.80	0.63
6:J:297:ALA:O	6:K:409:ILE:CD1	2.39	0.63
6:J:440:LEU:HG	6:J:441:GLY:N	2.13	0.63
5:L:147:HIS:HB3	5:L:168:PRO:HG2	1.80	0.63
6:O:320:LEU:HD12	6:O:326:THR:HG23	1.80	0.63
6:P:29:THR:OG1	6:Q:609:ARG:HG2	1.98	0.63
6:P:169:MET:HA	6:Q:541:SER:HG	1.62	0.63
6:P:299:ILE:HD11	6:Q:419:MET:HE1	1.78	0.63
6:Q:150:ALA:O	6:Q:154:ARG:HG3	1.98	0.63
6:U:36:LEU:CD1	6:V:242:PHE:CD1	2.81	0.63
6:U:146:GLN:HE22	6:V:241:ALA:HB1	1.63	0.63
6:U:418:ASN:C	6:W:298:PHE:CB	2.62	0.63
6:U:612:SER:HB2	6:W:160:GLN:NE2	1.67	0.63
6:U:630:LEU:HD11	6:V:275:GLU:CG	2.25	0.63
6:V:36:LEU:O	6:W:253:VAL:HG11	1.99	0.63
6:V:157:ALA:HA	6:V:160:GLN:OE1	1.98	0.63
6:V:408:ALA:HA	6:V:416:ARG:C	2.23	0.63
5:Y:174:LYS:O	5:Y:186:LEU:HA	1.98	0.63
2:B:257:ARG:HH22	2:B:309:LEU:HB2	1.63	0.63
4:E:339:LEU:HD13	6:U:58:ILE:HD11	1.80	0.63
6:I:278:THR:OG1	6:K:625:ARG:CD	2.46	0.63
6:O:36:LEU:CD1	6:P:242:PHE:CD1	2.82	0.63
6:O:472:ARG:HD2	6:Q:530:ARG:N	1.92	0.63
6:O:612:SER:CA	6:Q:160:GLN:NE2	1.86	0.63
6:P:456:ASN:HD21	6:Q:412:ARG:CD	2.10	0.63
6:U:165:THR:O	6:V:537:SER:OG	2.16	0.63
6:U:281:PRO:CD	6:W:622:GLU:HB2	2.27	0.63
6:U:416:ARG:CB	6:W:298:PHE:CE1	2.80	0.63
6:U:459:LEU:HD21	6:V:409:ILE:O	1.98	0.63
6:V:373:PHE:HB3	6:V:398:SER:HB2	1.80	0.63
6:V:376:ILE:HB	6:V:438:TYR:HB2	1.79	0.63
6:V:459:LEU:HD13	6:W:414:GLN:HG3	1.79	0.63
6:V:459:LEU:HD21	6:W:409:ILE:O	1.98	0.63
2:B:376:LEU:CD2	4:D:251:ASN:HD21	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:437:ARG:CZ	4:D:173:ALA:HB1	2.28	0.63
2:B:959:ARG:NH2	4:D:40:ARG:CB	2.61	0.63
2:B:1014:VAL:HA	2:B:1034:ASP:OD2	1.99	0.63
6:I:170:LEU:N	6:J:541:SER:HB3	2.14	0.63
6:J:320:LEU:HD12	6:J:326:THR:HG23	1.80	0.63
6:J:459:LEU:HD13	6:K:414:GLN:HG3	1.81	0.63
6:K:119:VAL:HG23	6:K:131:VAL:HB	1.80	0.63
5:N:191:LYS:O	6:P:364:PRO:CB	2.36	0.63
6:O:606:THR:HG22	6:Q:28:SER:CB	2.15	0.63
6:P:333:PRO:HB2	6:Q:411:VAL:HG22	1.81	0.63
6:Q:418:ASN:CG	6:Q:419:MET:N	2.56	0.63
5:R:174:LYS:O	5:R:186:LEU:HA	1.99	0.63
5:T:105:ASP:HB2	5:T:111:VAL:HB	1.80	0.63
6:U:278:THR:OG1	6:W:625:ARG:CD	2.47	0.63
6:V:622:GLU:CB	6:W:281:PRO:HD3	2.28	0.63
5:Y:105:ASP:HB2	5:Y:111:VAL:HB	1.80	0.63
5:H:4:HIS:HB3	6:I:586:VAL:CG2	2.07	0.63
6:I:295:ARG:HH12	6:J:419:MET:HA	1.62	0.63
6:J:295:ARG:NH1	6:K:354:SER:OG	2.32	0.63
6:J:298:PHE:O	6:K:419:MET:HG2	1.99	0.63
6:J:459:LEU:HD21	6:K:409:ILE:HG22	1.75	0.63
6:J:622:GLU:CB	6:K:281:PRO:HD3	2.28	0.63
6:O:606:THR:HG22	6:O:609:ARG:CZ	2.29	0.63
6:Q:282:VAL:HG21	6:Q:473:GLU:HA	1.81	0.63
5:T:144:VAL:HA	5:T:148:CYS:HB2	1.81	0.63
5:T:145:ARG:C	5:T:150:ALA:HA	2.24	0.63
6:U:82:PHE:HE2	6:V:242:PHE:HZ	1.41	0.63
6:U:530:ARG:N	6:V:472:ARG:HD2	1.97	0.63
6:V:150:ALA:O	6:V:154:ARG:HG3	1.99	0.63
6:V:298:PHE:O	6:W:419:MET:HG2	1.98	0.63
6:V:440:LEU:HG	6:V:441:GLY:N	2.13	0.63
1:A:433:CYS:H	1:A:479:LEU:HB3	1.64	0.63
1:A:1142:ARG:H	1:A:1142:ARG:CZ	2.10	0.63
2:B:861:ARG:O	2:B:865:VAL:HG23	1.99	0.63
4:E:400:THR:CA	6:U:52:GLY:O	2.47	0.63
6:J:30:ALA:CA	6:K:610:THR:CG2	2.60	0.63
6:J:333:PRO:CB	6:K:411:VAL:HG22	2.28	0.63
6:J:373:PHE:HB3	6:J:398:SER:HB2	1.80	0.63
6:J:619:ASP:OD1	6:K:284:VAL:HG12	1.92	0.63
5:M:105:ASP:HB2	5:M:111:VAL:HB	1.79	0.63
6:O:44:THR:HB	6:P:84:LYS:HE3	1.57	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:545:VAL:HG21	6:Q:641:ILE:CG1	2.28	0.63
6:O:545:VAL:HG13	6:Q:641:ILE:HG12	1.70	0.63
6:Q:50:PRO:HD3	6:Q:118:TYR:CE1	2.33	0.63
5:R:130:PHE:CD1	6:W:446:PRO:HB2	2.33	0.63
5:S:6:ILE:HB	5:S:7:PRO:HD3	1.80	0.63
5:T:174:LYS:O	5:T:186:LEU:HA	1.99	0.63
6:U:282:VAL:HG21	6:U:473:GLU:HA	1.81	0.63
6:U:295:ARG:NH1	6:U:298:PHE:HB2	2.13	0.63
6:U:299:ILE:HD11	6:V:419:MET:HE1	1.76	0.63
6:V:625:ARG:NE	6:W:278:THR:OG1	2.32	0.63
2:B:954:PRO:N	4:D:39:SER:OG	2.31	0.63
3:C:231:MET:SD	3:C:349:VAL:HB	2.38	0.63
5:H:145:ARG:C	5:H:150:ALA:HA	2.24	0.63
6:I:459:LEU:CD2	6:J:414:GLN:NE2	2.44	0.63
6:I:459:LEU:HD21	6:J:409:ILE:O	1.99	0.63
6:J:333:PRO:HB2	6:K:411:VAL:HG22	1.81	0.63
6:J:641:ILE:CG1	6:K:545:VAL:CG2	2.77	0.63
6:O:419:MET:H	6:Q:298:PHE:HB3	1.61	0.63
6:O:440:LEU:HG	6:O:441:GLY:N	2.14	0.63
6:O:644:LEU:CD2	6:P:548:LYS:HE3	1.82	0.63
6:P:36:LEU:O	6:Q:253:VAL:HG11	1.98	0.63
6:P:376:ILE:HB	6:P:438:TYR:HB2	1.79	0.63
6:P:440:LEU:HG	6:P:441:GLY:N	2.14	0.63
6:Q:376:ILE:HB	6:Q:438:TYR:HB2	1.80	0.63
6:Q:562:TYR:CD1	6:Q:562:TYR:N	2.66	0.63
5:R:44:GLY:CA	6:W:400:ALA:HB1	2.02	0.63
6:U:606:THR:HG22	6:U:609:ARG:CZ	2.28	0.63
1:A:1266:VAL:O	1:A:1268:PRO:HD3	1.98	0.63
2:B:436:LEU:HD13	4:D:175:MET:CG	2.12	0.63
2:B:1052:LEU:HA	2:B:1059:PHE:CE2	2.34	0.63
3:C:609:THR:O	3:C:611:PRO:HD3	1.99	0.63
4:D:139:ASN:O	4:D:142:VAL:HB	1.98	0.63
5:F:147:HIS:HB3	5:F:168:PRO:HG2	1.80	0.63
5:G:2:PRO:HG2	6:K:587:GLY:CA	2.14	0.63
5:H:53:LEU:HD12	5:H:222:LEU:HB2	1.79	0.63
6:I:36:LEU:O	6:J:253:VAL:CG1	2.47	0.63
6:I:66:ASP:OD1	6:J:232:ALA:HB1	1.85	0.63
6:I:82:PHE:HE2	6:J:242:PHE:HZ	1.42	0.63
6:I:194:LEU:HA	6:J:562:TYR:CD2	2.33	0.63
6:I:419:MET:N	6:K:298:PHE:CB	2.61	0.63
6:I:456:ASN:HD21	6:J:412:ARG:CG	2.09	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:320:LEU:HD12	6:K:326:THR:HG23	1.80	0.63
6:K:562:TYR:CD1	6:K:562:TYR:N	2.66	0.63
6:P:32:PRO:HD3	6:Q:609:ARG:O	1.99	0.63
6:P:295:ARG:NH1	6:Q:354:SER:OG	2.32	0.63
5:T:23:THR:O	5:T:41:VAL:HA	1.99	0.63
6:V:119:VAL:HG23	6:V:131:VAL:HB	1.80	0.63
6:W:50:PRO:HD3	6:W:118:TYR:CE1	2.33	0.63
6:W:252:LEU:H	6:W:252:LEU:HD12	1.62	0.63
1:A:433:CYS:O	1:A:1008:LEU:HG	1.98	0.62
2:B:792:GLN:CB	4:D:105:ALA:HB3	2.29	0.62
2:B:1182:ASN:C	4:D:52:PRO:HG2	2.20	0.62
5:F:130:PHE:CD1	6:K:446:PRO:HB2	2.33	0.62
5:G:23:THR:O	5:G:41:VAL:HA	1.99	0.62
6:I:242:PHE:HE1	6:K:82:PHE:CZ	2.13	0.62
6:I:610:THR:CB	6:K:30:ALA:CB	2.72	0.62
6:I:618:THR:HB	6:J:281:PRO:CG	2.28	0.62
5:M:145:ARG:C	5:M:150:ALA:HA	2.24	0.62
6:O:247:SER:C	6:Q:154:ARG:HD3	2.24	0.62
6:P:459:LEU:H	6:Q:412:ARG:HE	1.44	0.62
5:S:174:LYS:O	5:S:186:LEU:HA	1.99	0.62
6:U:530:ARG:NH1	6:V:482:ASP:CG	2.56	0.62
6:U:641:ILE:CG1	6:V:545:VAL:HG21	2.29	0.62
6:V:42:ASN:HD22	6:W:235:LEU:HD21	1.39	0.62
6:V:154:ARG:HH11	6:W:246:THR:CB	2.12	0.62
1:A:636:ALA:HB1	1:A:668:LEU:HB2	1.81	0.62
1:A:773:ARG:HH21	1:A:773:ARG:HG2	1.65	0.62
2:B:412:ASP:H	2:B:415:GLN:NE2	1.96	0.62
5:G:174:LYS:O	5:G:186:LEU:HA	1.99	0.62
6:I:459:LEU:HB2	6:J:412:ARG:HB2	1.81	0.62
6:I:577:VAL:HG12	6:J:471:LEU:HD22	1.81	0.62
5:N:145:ARG:C	5:N:150:ALA:HA	2.24	0.62
5:N:147:HIS:HB3	5:N:168:PRO:HG2	1.81	0.62
6:O:298:PHE:HB3	6:P:419:MET:H	1.62	0.62
6:U:82:PHE:CZ	6:V:242:PHE:HE1	2.07	0.62
6:U:545:VAL:CG2	6:W:641:ILE:CG1	2.75	0.62
6:V:333:PRO:CB	6:W:411:VAL:HG22	2.28	0.62
6:V:333:PRO:HB2	6:W:411:VAL:HG22	1.81	0.62
6:W:320:LEU:HD12	6:W:326:THR:HG23	1.81	0.62
6:X:119:VAL:HG23	6:X:131:VAL:HB	1.81	0.62
1:A:805:VAL:HG12	1:A:807:VAL:HG22	1.82	0.62
6:I:28:SER:CB	6:J:606:THR:CG2	2.71	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:121:ALA:CB	6:J:87:PHE:CZ	2.82	0.62
6:I:473:GLU:HA	6:K:529:SER:HB3	1.80	0.62
5:M:144:VAL:HA	5:M:148:CYS:HB2	1.81	0.62
5:N:144:VAL:HA	5:N:148:CYS:HB2	1.81	0.62
5:N:174:LYS:O	5:N:186:LEU:HA	1.99	0.62
6:P:333:PRO:CA	6:Q:411:VAL:HG22	2.29	0.62
6:P:641:ILE:CG1	6:Q:545:VAL:CG2	2.77	0.62
6:Q:440:LEU:HG	6:Q:441:GLY:N	2.13	0.62
6:U:28:SER:CB	6:V:606:THR:CG2	2.72	0.62
6:U:416:ARG:CA	6:W:298:PHE:CE1	2.82	0.62
6:U:610:THR:CB	6:W:30:ALA:CB	2.72	0.62
6:V:298:PHE:HZ	6:W:416:ARG:C	1.61	0.62
6:V:641:ILE:CG1	6:W:545:VAL:CG2	2.78	0.62
6:W:407:LEU:HB3	6:W:418:ASN:HB3	1.81	0.62
1:A:379:VAL:HG13	6:I:60:SER:CB	2.28	0.62
1:A:1088:GLN:HE21	1:A:1097:LEU:HD23	1.63	0.62
3:C:1071:ARG:CZ	3:C:1072:THR:H	2.12	0.62
5:G:145:ARG:C	5:G:150:ALA:HA	2.24	0.62
5:G:147:HIS:HB3	5:G:168:PRO:HG2	1.81	0.62
6:I:121:ALA:HB1	6:J:87:PHE:CB	2.29	0.62
6:J:408:ALA:HA	6:J:416:ARG:C	2.24	0.62
6:O:119:VAL:HG23	6:O:131:VAL:HB	1.82	0.62
6:P:154:ARG:HD3	6:Q:247:SER:C	2.25	0.62
6:P:195:PRO:HD3	6:Q:562:TYR:CD2	2.34	0.62
6:U:161:LYS:HZ2	6:V:534:SER:H	1.48	0.62
6:U:637:PHE:CE1	6:V:545:VAL:HB	2.35	0.62
6:V:622:GLU:HG3	6:W:279:PRO:O	1.97	0.62
1:A:229:HIS:HB2	1:A:289:TYR:CE2	2.34	0.62
2:B:410:HIS:HE1	4:D:184:HIS:NE2	1.95	0.62
2:B:959:ARG:NH2	4:D:40:ARG:CA	2.62	0.62
3:C:267:THR:HA	3:C:1085:LEU:O	2.00	0.62
3:C:386:GLU:OE1	3:C:1195:TYR:CZ	2.52	0.62
5:G:4:HIS:CB	6:K:586:VAL:HG11	2.29	0.62
5:G:26:THR:HB	5:G:38:ALA:HA	1.79	0.62
6:I:247:SER:C	6:K:154:ARG:HD3	2.23	0.62
6:I:458:THR:CA	6:J:412:ARG:NE	2.30	0.62
6:K:150:ALA:O	6:K:154:ARG:HG3	1.99	0.62
6:K:440:LEU:HG	6:K:441:GLY:N	2.14	0.62
5:N:4:HIS:HB2	6:O:586:VAL:HG11	1.82	0.62
6:O:44:THR:HG22	6:P:84:LYS:NZ	2.11	0.62
6:P:36:LEU:CD1	6:Q:242:PHE:CG	2.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:373:PHE:HB3	6:P:398:SER:HB2	1.80	0.62
5:R:53:LEU:HD12	5:R:222:LEU:HB2	1.79	0.62
6:U:440:LEU:HG	6:U:441:GLY:N	2.14	0.62
6:W:144:ASN:HD22	6:W:147:ARG:CZ	2.12	0.62
2:B:409:MET:HE2	2:B:443:PRO:HB3	1.80	0.62
2:B:709:ILE:HG12	2:B:730:THR:HG22	1.80	0.62
4:E:336:ALA:CB	6:U:54:SER:CB	2.77	0.62
5:H:174:LYS:O	5:H:186:LEU:HA	1.99	0.62
6:I:282:VAL:HG21	6:I:473:GLU:HA	1.80	0.62
5:L:145:ARG:C	5:L:150:ALA:HA	2.25	0.62
6:O:412:ARG:CG	6:Q:459:LEU:HG	2.30	0.62
6:P:36:LEU:CD2	6:Q:242:PHE:CG	2.70	0.62
6:P:298:PHE:O	6:Q:419:MET:HG2	1.98	0.62
5:R:147:HIS:HB3	5:R:168:PRO:HG2	1.81	0.62
6:U:170:LEU:N	6:V:541:SER:HB3	2.13	0.62
6:U:622:GLU:HG2	6:V:279:PRO:C	2.23	0.62
6:V:32:PRO:CD	6:W:609:ARG:O	2.46	0.62
6:V:459:LEU:H	6:W:412:ARG:HE	1.44	0.62
2:B:453:LEU:HD23	2:B:861:ARG:HG2	1.81	0.62
2:B:549:ALA:HB3	2:B:815:PRO:HB2	1.81	0.62
2:B:783:VAL:HA	2:B:938:TYR:HA	1.81	0.62
2:B:954:PRO:HB3	4:D:39:SER:OG	1.98	0.62
3:C:39:PRO:HB2	3:C:43:ALA:HB3	1.81	0.62
5:H:4:HIS:HB2	6:I:586:VAL:HG11	1.80	0.62
6:I:298:PHE:HB3	6:J:419:MET:H	1.62	0.62
6:I:545:VAL:HG13	6:K:640:GLN:NE2	1.96	0.62
5:N:4:HIS:HB3	6:O:586:VAL:CG2	2.07	0.62
6:O:44:THR:HG21	6:P:84:LYS:NZ	1.85	0.62
6:O:194:LEU:HA	6:P:562:TYR:CD2	2.34	0.62
6:O:416:ARG:CB	6:Q:298:PHE:CE1	2.80	0.62
5:R:23:THR:O	5:R:41:VAL:HA	1.99	0.62
6:U:87:PHE:CZ	6:W:121:ALA:CB	2.80	0.62
6:V:154:ARG:HD3	6:W:247:SER:C	2.25	0.62
6:W:150:ALA:O	6:W:154:ARG:HG3	1.98	0.62
6:X:440:LEU:HG	6:X:441:GLY:N	2.13	0.62
1:A:896:ILE:HA	1:A:932:GLN:HB3	1.81	0.62
3:C:314:SER:N	3:C:1196:ARG:HG2	2.11	0.62
3:C:377:ILE:HG21	3:C:380:GLU:CA	2.29	0.62
5:F:145:ARG:C	5:F:150:ALA:HA	2.25	0.62
6:I:232:ALA:HB1	6:K:66:ASP:CG	1.91	0.62
6:I:373:PHE:HB3	6:I:398:SER:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:419:MET:CE	6:K:299:ILE:HD13	2.23	0.62
6:J:195:PRO:HD3	6:K:562:TYR:CD2	2.34	0.62
6:J:282:VAL:HG21	6:J:473:GLU:HA	1.82	0.62
6:J:641:ILE:HG13	6:K:545:VAL:HG11	0.63	0.62
6:K:282:VAL:HG21	6:K:473:GLU:HA	1.82	0.62
5:L:6:ILE:HB	5:L:7:PRO:HD3	1.80	0.62
6:O:459:LEU:HD23	6:P:409:ILE:HG22	1.77	0.62
6:P:320:LEU:HD12	6:P:326:THR:HG23	1.81	0.62
6:P:625:ARG:NE	6:Q:278:THR:OG1	2.33	0.62
5:R:145:ARG:C	5:R:150:ALA:HA	2.25	0.62
5:S:4:HIS:CB	6:W:586:VAL:CG1	2.78	0.62
5:T:6:ILE:HB	5:T:7:PRO:HD3	1.80	0.62
5:Y:23:THR:O	5:Y:41:VAL:HA	2.00	0.62
2:B:645:HIS:CD2	2:B:703:THR:CB	2.82	0.62
5:L:23:THR:O	5:L:41:VAL:HA	1.99	0.62
5:M:147:HIS:HB3	5:M:168:PRO:HG2	1.80	0.62
5:M:191:LYS:O	6:O:364:PRO:CB	2.39	0.62
5:N:4:HIS:CG	6:O:586:VAL:CG1	2.83	0.62
6:O:50:PRO:HD3	6:O:118:TYR:CE1	2.34	0.62
6:O:376:ILE:HB	6:O:438:TYR:HB2	1.80	0.62
6:Q:119:VAL:HG23	6:Q:131:VAL:HB	1.80	0.62
6:U:188:ALA:HB3	6:U:647:GLY:HA3	1.82	0.62
6:U:473:GLU:HA	6:W:529:SER:HB3	1.81	0.62
6:V:459:LEU:HD23	6:W:409:ILE:CG2	2.27	0.62
6:W:418:ASN:CG	6:W:419:MET:N	2.57	0.62
6:X:373:PHE:HB3	6:X:398:SER:HB2	1.81	0.62
1:A:469:ARG:HB3	1:A:473:ARG:NH2	2.14	0.62
1:A:915:GLN:O	1:A:919:PRO:HD2	2.00	0.62
3:C:715:VAL:HG22	3:C:726:ARG:CG	2.29	0.62
4:D:183:ALA:C	4:D:187:GLN:CD	2.64	0.62
5:F:174:LYS:O	5:F:186:LEU:HA	2.00	0.62
6:I:253:VAL:CG1	6:K:36:LEU:HD23	2.13	0.62
6:I:412:ARG:N	6:K:456:ASN:HD21	1.88	0.62
6:I:440:LEU:HG	6:I:441:GLY:N	2.14	0.62
6:J:32:PRO:O	6:K:613:LEU:HD23	1.89	0.62
5:N:4:HIS:CG	6:O:586:VAL:CB	2.80	0.62
6:O:84:LYS:CE	6:Q:44:THR:CA	2.47	0.62
6:O:295:ARG:NH1	6:O:298:PHE:HB2	2.14	0.62
6:O:409:ILE:HG22	6:Q:459:LEU:HD23	1.77	0.62
6:O:551:GLN:OE1	6:O:555:ALA:HA	2.00	0.62
5:S:145:ARG:C	5:S:150:ALA:HA	2.25	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:44:THR:HG21	6:V:84:LYS:NZ	1.87	0.62
6:U:472:ARG:HD2	6:W:530:ARG:N	1.91	0.62
6:U:545:VAL:HG21	6:W:641:ILE:CG1	2.29	0.62
1:A:355:ASP:HB2	1:A:371:PRO:HG3	1.81	0.61
2:B:436:LEU:HD12	4:D:175:MET:CG	2.27	0.61
2:B:437:ARG:CZ	4:D:173:ALA:CB	2.78	0.61
2:B:445:PHE:HE2	4:D:195:GLN:HE21	1.48	0.61
5:G:193:GLY:HA2	6:I:364:PRO:HG2	1.67	0.61
6:K:295:ARG:HH11	6:K:298:PHE:HB2	1.65	0.61
6:K:476:TYR:O	6:K:479:GLU:HB2	2.00	0.61
6:O:295:ARG:NH1	6:P:354:SER:OG	2.33	0.61
6:O:412:ARG:NE	6:Q:459:LEU:CA	2.47	0.61
6:P:36:LEU:HD23	6:Q:253:VAL:CG1	2.13	0.61
5:S:4:HIS:CB	6:W:586:VAL:HG11	2.30	0.61
6:U:30:ALA:HB2	6:V:610:THR:HB	1.80	0.61
6:U:354:SER:OG	6:W:295:ARG:NH1	2.33	0.61
6:U:644:LEU:CA	6:V:548:LYS:CE	2.61	0.61
6:V:165:THR:CB	6:W:534:SER:HB2	2.25	0.61
6:V:641:ILE:CG1	6:W:545:VAL:HG21	2.30	0.61
5:Y:144:VAL:HA	5:Y:148:CYS:HB2	1.82	0.61
1:A:27:PHE:O	1:A:30:LEU:HG	2.00	0.61
2:B:415:GLN:O	2:B:419:ILE:HG12	2.00	0.61
2:B:951:PRO:HB2	4:D:35:ARG:HG2	1.80	0.61
3:C:786:ALA:HA	3:C:787:ARG:NH2	2.15	0.61
3:C:1123:GLN:HB3	3:C:1157:ALA:HB3	1.82	0.61
4:E:339:LEU:O	4:E:343:GLN:HG3	1.99	0.61
5:H:6:ILE:HB	5:H:7:PRO:HD3	1.80	0.61
6:I:545:VAL:HG21	6:K:641:ILE:CG1	2.30	0.61
6:K:418:ASN:CG	6:K:419:MET:N	2.58	0.61
5:M:53:LEU:HD12	5:M:222:LEU:HB2	1.80	0.61
6:O:30:ALA:HB2	6:P:610:THR:HB	1.80	0.61
6:O:121:ALA:HB1	6:P:87:PHE:CB	2.30	0.61
6:O:333:PRO:C	6:P:411:VAL:HG21	2.08	0.61
6:P:32:PRO:O	6:Q:613:LEU:HD23	1.89	0.61
6:P:459:LEU:CB	6:Q:412:ARG:NE	2.54	0.61
6:U:121:ALA:CB	6:V:87:PHE:CB	2.75	0.61
6:U:121:ALA:CB	6:V:87:PHE:CZ	2.82	0.61
6:U:644:LEU:HD23	6:V:548:LYS:HZ1	1.53	0.61
6:X:61:LEU:HD11	6:X:127:LEU:HA	1.82	0.61
5:Y:145:ARG:C	5:Y:150:ALA:HA	2.24	0.61
2:B:310:LYS:HB2	2:B:399:ARG:CZ	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:952:PRO:HB2	4:D:35:ARG:NH2	2.14	0.61
3:C:413:PRO:HA	3:C:416:ILE:HD12	1.81	0.61
3:C:603:VAL:HB	3:C:606:MET:HB3	1.80	0.61
4:E:353:ALA:HA	4:E:356:ASN:OD1	2.00	0.61
5:F:26:THR:HB	5:F:38:ALA:HA	1.80	0.61
6:I:30:ALA:HB2	6:J:610:THR:HB	1.81	0.61
6:I:476:TYR:O	6:I:479:GLU:HB2	2.00	0.61
6:I:622:GLU:HB2	6:J:280:LEU:HD12	1.74	0.61
6:J:459:LEU:H	6:K:412:ARG:HE	1.44	0.61
6:K:61:LEU:HD11	6:K:127:LEU:HA	1.83	0.61
6:K:407:LEU:HB3	6:K:418:ASN:HB3	1.81	0.61
5:M:26:THR:HB	5:M:38:ALA:HA	1.81	0.61
6:O:298:PHE:CB	6:P:419:MET:N	2.61	0.61
6:O:562:TYR:CE1	6:Q:193:ILE:HG23	2.21	0.61
6:P:165:THR:HA	6:Q:534:SER:O	2.00	0.61
6:P:456:ASN:HB2	6:Q:412:ARG:HA	1.77	0.61
6:Q:320:LEU:HD12	6:Q:326:THR:HG23	1.81	0.61
6:U:541:SER:HB3	6:W:170:LEU:CA	2.30	0.61
6:V:29:THR:OG1	6:W:609:ARG:HG2	1.99	0.61
6:V:61:LEU:HD11	6:V:127:LEU:HA	1.82	0.61
1:A:399:ARG:HH11	1:A:745:MET:CG	2.13	0.61
2:B:214:HIS:NE2	2:B:217:LYS:HA	2.15	0.61
2:B:787:ARG:HG2	2:B:788:VAL:HG12	1.80	0.61
3:C:158:ARG:HH12	3:C:851:PHE:HB2	1.65	0.61
3:C:384:MET:HB3	3:C:1197:TYR:HE2	1.52	0.61
6:I:36:LEU:HD23	6:J:253:VAL:CG1	2.09	0.61
6:J:61:LEU:HD11	6:J:127:LEU:HA	1.83	0.61
6:J:297:ALA:HA	6:K:409:ILE:HD13	1.82	0.61
6:J:299:ILE:HD13	6:K:419:MET:HE1	1.74	0.61
6:J:641:ILE:CG1	6:K:545:VAL:HG21	2.30	0.61
6:O:637:PHE:CE1	6:P:545:VAL:HB	2.36	0.61
5:S:23:THR:O	5:S:41:VAL:HA	2.00	0.61
6:U:61:LEU:HD11	6:U:127:LEU:HA	1.82	0.61
6:U:121:ALA:HB2	6:V:87:PHE:CE2	2.30	0.61
6:V:476:TYR:O	6:V:479:GLU:HB2	2.01	0.61
2:B:429:ASN:HD21	3:C:611:PRO:CG	2.12	0.61
4:D:392:ALA:HB3	6:P:49:ARG:HH21	1.64	0.61
5:M:23:THR:O	5:M:41:VAL:HA	2.01	0.61
6:O:416:ARG:CA	6:Q:298:PHE:CE1	2.83	0.61
6:P:150:ALA:O	6:P:154:ARG:HG3	2.00	0.61
6:Q:61:LEU:HD11	6:Q:127:LEU:HA	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:6:ILE:HB	5:R:7:PRO:HD3	1.81	0.61
5:S:144:VAL:HA	5:S:148:CYS:HB2	1.82	0.61
6:U:121:ALA:HB1	6:V:87:PHE:CB	2.29	0.61
6:U:253:VAL:HG13	6:W:36:LEU:HB3	1.75	0.61
6:U:320:LEU:HD12	6:U:326:THR:HG23	1.81	0.61
6:V:298:PHE:CZ	6:W:416:ARG:HA	2.34	0.61
6:W:188:ALA:HB3	6:W:647:GLY:HA3	1.82	0.61
6:W:551:GLN:OE1	6:W:555:ALA:HA	2.01	0.61
5:Y:26:THR:HB	5:Y:38:ALA:HA	1.81	0.61
1:A:1248:ALA:HA	1:A:1259:SER:HB2	1.83	0.61
3:C:123:ASN:HD22	3:C:123:ASN:C	2.08	0.61
6:I:36:LEU:CD1	6:J:242:PHE:CD1	2.81	0.61
6:I:50:PRO:HD3	6:I:118:TYR:CE1	2.34	0.61
6:I:119:VAL:HG23	6:I:131:VAL:HB	1.81	0.61
6:I:333:PRO:C	6:J:411:VAL:HG21	2.09	0.61
6:I:412:ARG:CG	6:K:459:LEU:HG	2.31	0.61
6:I:418:ASN:CB	6:K:300:LYS:NZ	2.54	0.61
6:I:458:THR:HA	6:J:412:ARG:HG2	1.80	0.61
6:J:165:THR:HA	6:K:534:SER:O	2.01	0.61
6:J:456:ASN:CG	6:K:412:ARG:CD	2.69	0.61
6:J:625:ARG:NE	6:K:278:THR:OG1	2.33	0.61
6:O:82:PHE:CZ	6:P:242:PHE:HE1	2.08	0.61
6:O:122:THR:CG2	6:P:90:ASN:HB2	2.28	0.61
6:O:411:VAL:HG13	6:Q:457:PRO:HG3	1.73	0.61
6:P:300:LYS:HZ1	6:Q:418:ASN:CB	2.13	0.61
6:Q:407:LEU:HB3	6:Q:418:ASN:HB3	1.81	0.61
6:U:545:VAL:HG13	6:W:641:ILE:HG12	1.69	0.61
6:W:440:LEU:HG	6:W:441:GLY:N	2.13	0.61
6:X:587:GLY:C	5:Y:2:PRO:CD	2.67	0.61
1:A:638:HIS:HA	1:A:664:SER:O	2.00	0.61
2:B:865:VAL:HG13	2:B:868:ARG:HH22	1.66	0.61
3:C:792:GLN:OE1	4:D:346:LEU:O	2.18	0.61
4:D:46:ILE:HG22	4:D:187:GLN:HG2	1.80	0.61
4:D:389:PHE:C	6:P:55:VAL:CG2	2.65	0.61
4:E:400:THR:CB	6:U:53:THR:CG2	2.78	0.61
5:G:4:HIS:CB	6:K:586:VAL:CG1	2.78	0.61
6:I:44:THR:HG22	6:J:84:LYS:HZ1	1.66	0.61
6:I:122:THR:CG2	6:J:90:ASN:HB2	2.30	0.61
6:I:545:VAL:HG13	6:K:641:ILE:HG12	1.68	0.61
6:J:150:ALA:O	6:J:154:ARG:HG3	2.01	0.61
5:L:144:VAL:HA	5:L:148:CYS:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:4:HIS:CE1	6:Q:586:VAL:CA	2.83	0.61
6:O:28:SER:CB	6:P:606:THR:CG2	2.71	0.61
6:O:282:VAL:HG21	6:O:473:GLU:HA	1.81	0.61
6:P:551:GLN:OE1	6:P:555:ALA:HA	2.01	0.61
5:S:26:THR:HB	5:S:38:ALA:HA	1.81	0.61
6:U:419:MET:N	6:W:298:PHE:CB	2.62	0.61
6:V:36:LEU:CA	6:W:253:VAL:HG12	2.30	0.61
6:V:298:PHE:HE1	6:W:416:ARG:HB3	1.65	0.61
6:V:641:ILE:HG13	6:W:545:VAL:HG11	0.63	0.61
6:X:257:SER:O	6:X:261:GLN:HG3	2.01	0.61
1:A:467:ARG:CZ	1:A:467:ARG:H	2.14	0.61
2:B:633:PRO:HG3	2:B:640:ARG:CZ	2.30	0.61
2:B:985:VAL:O	2:B:1135:TYR:HA	2.00	0.61
3:C:168:ARG:H	3:C:168:ARG:CZ	2.12	0.61
3:C:1064:TRP:CH2	3:C:1100:LEU:HD13	2.36	0.61
4:E:10:THR:HG22	4:E:73:GLY:HA2	1.83	0.61
6:I:320:LEU:HD12	6:I:326:THR:HG23	1.81	0.61
6:I:641:ILE:HG12	6:J:545:VAL:HG13	1.66	0.61
6:J:457:PRO:HG3	6:K:411:VAL:HG13	1.72	0.61
6:O:36:LEU:CD2	6:P:253:VAL:CG1	2.74	0.61
6:O:419:MET:N	6:Q:298:PHE:CB	2.62	0.61
6:P:118:TYR:HA	6:P:130:PRO:HA	1.83	0.61
6:P:459:LEU:HD23	6:Q:409:ILE:CG2	2.27	0.61
5:R:144:VAL:HA	5:R:148:CYS:HB2	1.83	0.61
6:U:476:TYR:O	6:U:479:GLU:HB2	2.00	0.61
6:V:169:MET:HA	6:W:541:SER:HG	1.61	0.61
6:V:530:ARG:NH1	6:W:482:ASP:CG	2.55	0.61
6:W:119:VAL:HG23	6:W:131:VAL:HB	1.81	0.61
6:W:282:VAL:HG21	6:W:473:GLU:HA	1.81	0.61
6:X:551:GLN:OE1	6:X:555:ALA:HA	2.01	0.61
2:B:426:ASN:HD22	3:C:609:THR:HB	1.64	0.61
2:B:757:VAL:HG21	2:B:841:PHE:CZ	2.36	0.61
3:C:404:MET:SD	4:E:175:MET:C	2.84	0.61
4:D:91:THR:O	4:D:101:ALA:HB3	1.99	0.61
4:E:400:THR:OG1	6:U:53:THR:N	2.33	0.61
5:G:4:HIS:CE1	6:K:586:VAL:CA	2.84	0.61
6:I:36:LEU:C	6:J:253:VAL:HG12	2.26	0.61
6:I:530:ARG:N	6:J:472:ARG:HD2	1.98	0.61
6:J:36:LEU:CD1	6:K:242:PHE:CG	2.81	0.61
6:J:44:THR:CG2	6:K:84:LYS:HZ1	1.90	0.61
6:J:154:ARG:HH11	6:K:246:THR:CB	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:4:HIS:CB	6:Q:586:VAL:HG11	2.31	0.61
6:O:281:PRO:HD3	6:Q:622:GLU:HG2	1.83	0.61
6:O:541:SER:HB3	6:Q:170:LEU:CA	2.31	0.61
6:O:641:ILE:CG1	6:P:545:VAL:CB	2.77	0.61
6:P:641:ILE:CG1	6:Q:545:VAL:HG21	2.30	0.61
6:U:419:MET:H	6:W:298:PHE:HB3	1.63	0.61
6:V:36:LEU:CD1	6:W:242:PHE:CG	2.82	0.61
6:V:165:THR:HA	6:W:534:SER:O	2.00	0.61
6:W:476:TYR:O	6:W:479:GLU:HB2	2.00	0.61
1:A:1167:ILE:HG23	1:A:1205:LEU:HA	1.83	0.61
3:C:384:MET:CB	3:C:1197:TYR:OH	2.48	0.61
5:H:4:HIS:ND1	6:I:586:VAL:CB	2.63	0.61
6:I:44:THR:HA	6:J:84:LYS:CE	2.20	0.61
6:I:562:TYR:CE1	6:K:193:ILE:HG23	2.21	0.61
6:K:551:GLN:OE1	6:K:555:ALA:HA	2.01	0.61
5:N:23:THR:O	5:N:41:VAL:HA	2.00	0.61
6:O:36:LEU:C	6:P:253:VAL:HG12	2.25	0.61
6:O:188:ALA:HB3	6:O:647:GLY:HA3	1.83	0.61
6:P:36:LEU:CA	6:Q:253:VAL:HG12	2.30	0.61
6:P:61:LEU:HD11	6:P:127:LEU:HA	1.83	0.61
6:P:298:PHE:CZ	6:Q:416:ARG:HA	2.35	0.61
6:Q:370:VAL:HG13	6:Q:403:SER:O	2.01	0.61
5:R:2:PRO:HG2	6:V:587:GLY:CA	2.31	0.61
5:R:191:LYS:C	6:W:364:PRO:HB3	2.26	0.61
5:S:167:LEU:O	5:S:190:PRO:HD2	2.01	0.61
6:U:119:VAL:HG23	6:U:131:VAL:HB	1.82	0.61
6:U:298:PHE:CE1	6:V:416:ARG:C	2.74	0.61
6:U:456:ASN:OD1	6:V:412:ARG:HA	1.85	0.61
6:V:32:PRO:HD3	6:W:609:ARG:O	2.01	0.61
6:W:144:ASN:CB	6:W:147:ARG:HE	2.13	0.61
6:X:320:LEU:HD12	6:X:326:THR:HG23	1.81	0.61
2:B:400:GLU:CG	2:B:401:THR:H	2.14	0.60
2:B:956:HIS:CD2	4:D:43:HIS:CD2	2.89	0.60
5:F:23:THR:O	5:F:41:VAL:HA	2.01	0.60
5:H:23:THR:O	5:H:41:VAL:HA	2.00	0.60
5:H:194:LEU:HD13	6:J:448:PRO:HD2	1.83	0.60
6:I:298:PHE:CD1	6:J:417:PHE:C	2.65	0.60
6:I:416:ARG:CA	6:K:298:PHE:CE1	2.83	0.60
6:I:541:SER:HB3	6:K:170:LEU:CA	2.30	0.60
6:J:161:LYS:HE2	6:K:533:ASP:OD2	2.00	0.60
5:M:174:LYS:O	5:M:186:LEU:HA	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:26:THR:HB	5:N:38:ALA:HA	1.81	0.60
6:O:121:ALA:CB	6:P:87:PHE:CZ	2.82	0.60
6:O:281:PRO:CG	6:Q:618:THR:HB	2.31	0.60
6:O:473:GLU:HA	6:Q:529:SER:HB3	1.82	0.60
6:P:119:VAL:HG23	6:P:131:VAL:HB	1.82	0.60
6:P:530:ARG:NH1	6:Q:482:ASP:CG	2.57	0.60
6:Q:188:ALA:HB3	6:Q:647:GLY:HA3	1.82	0.60
5:R:26:THR:HB	5:R:38:ALA:HA	1.81	0.60
6:X:585:GLN:C	6:X:586:VAL:O	2.44	0.60
2:B:437:ARG:CZ	4:D:173:ALA:C	2.73	0.60
2:B:707:PHE:N	2:B:710:ARG:HH11	1.99	0.60
5:F:144:VAL:HA	5:F:148:CYS:HB2	1.82	0.60
5:G:167:LEU:O	5:G:190:PRO:HD2	2.01	0.60
6:I:168:THR:HB	6:J:538:ALA:HA	1.83	0.60
6:J:517:LEU:O	6:J:521:VAL:HG23	2.01	0.60
5:M:4:HIS:CE1	6:Q:586:VAL:CG2	2.68	0.60
5:M:101:TYR:HB3	5:M:115:ALA:O	2.01	0.60
6:O:36:LEU:HD11	6:P:242:PHE:CE1	2.36	0.60
6:O:354:SER:OG	6:Q:295:ARG:NH1	2.34	0.60
6:P:476:TYR:O	6:P:479:GLU:HB2	2.01	0.60
6:Q:551:GLN:OE1	6:Q:555:ALA:HA	2.01	0.60
6:U:517:LEU:O	6:U:521:VAL:HG23	2.01	0.60
1:A:368:PRO:HG2	1:A:371:PRO:HB2	1.81	0.60
2:B:407:ARG:NH2	4:D:180:VAL:HB	2.16	0.60
3:C:375:ASN:C	4:E:195:GLN:OE1	2.43	0.60
6:I:151:ALA:HA	6:J:248:GLU:OE2	2.02	0.60
6:K:370:VAL:HG13	6:K:403:SER:O	2.02	0.60
6:O:193:ILE:HA	6:P:562:TYR:HE1	1.53	0.60
6:O:548:LYS:HE3	6:Q:644:LEU:HA	1.81	0.60
6:P:188:ALA:HB3	6:P:647:GLY:HA3	1.82	0.60
6:V:169:MET:C	6:W:541:SER:HB3	2.13	0.60
6:X:587:GLY:HA3	5:Y:2:PRO:CA	2.30	0.60
1:A:489:LYS:O	1:A:493:VAL:HG23	2.01	0.60
1:A:1065:HIS:HB2	1:A:1108:PHE:CE1	2.37	0.60
1:A:1085:ALA:HA	1:A:1099:GLN:O	2.02	0.60
2:B:686:ARG:HB2	3:C:595:GLN:HG2	1.82	0.60
5:F:45:ARG:N	6:K:400:ALA:HA	2.12	0.60
5:G:162:SER:HB2	5:G:264:GLN:HB3	1.84	0.60
5:H:162:SER:HB2	5:H:264:GLN:HB3	1.83	0.60
6:I:295:ARG:NH1	6:J:354:SER:OG	2.33	0.60
6:I:416:ARG:CB	6:K:298:PHE:CE1	2.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:4:HIS:CB	6:Q:586:VAL:CG1	2.79	0.60
6:O:29:THR:HA	6:P:609:ARG:HE	1.64	0.60
6:O:476:TYR:O	6:O:479:GLU:HB2	2.01	0.60
6:U:36:LEU:C	6:V:253:VAL:HG12	2.26	0.60
6:U:412:ARG:CG	6:W:459:LEU:HG	2.31	0.60
6:V:161:LYS:HE2	6:W:533:ASP:OD2	1.99	0.60
1:A:406:ASN:ND2	6:J:101:THR:C	2.59	0.60
2:B:353:GLN:NE2	3:C:1020:ILE:HD11	2.14	0.60
2:B:376:LEU:CA	3:C:797:ALA:CB	2.69	0.60
4:D:323:VAL:HB	4:D:324:PRO:HD3	1.83	0.60
4:E:337:ARG:HB3	4:E:341:TRP:CZ2	2.36	0.60
5:G:4:HIS:CE1	6:K:586:VAL:CG2	2.67	0.60
6:I:36:LEU:CD2	6:J:253:VAL:CG1	2.72	0.60
6:I:61:LEU:HD11	6:I:127:LEU:HA	1.82	0.60
6:I:147:ARG:CG	6:Q:100:LYS:CE	2.51	0.60
6:I:188:ALA:HB3	6:I:647:GLY:HA3	1.83	0.60
6:I:370:VAL:HG13	6:I:403:SER:O	2.01	0.60
6:I:537:SER:CB	6:K:168:THR:HG1	2.04	0.60
6:J:551:GLN:OE1	6:J:555:ALA:HA	2.01	0.60
5:L:44:GLY:HA3	6:Q:401:GLY:N	2.17	0.60
6:O:36:LEU:CG	6:P:253:VAL:HG13	2.27	0.60
6:O:202:THR:C	6:O:204:PRO:HD3	2.27	0.60
6:O:622:GLU:HB2	6:P:280:LEU:HD12	1.73	0.60
6:P:529:SER:N	6:Q:283:SER:HA	2.17	0.60
6:P:529:SER:C	6:Q:472:ARG:CD	2.59	0.60
6:P:529:SER:H	6:Q:283:SER:N	1.99	0.60
6:P:618:THR:HB	6:Q:281:PRO:CG	2.32	0.60
5:T:4:HIS:HB2	6:U:586:VAL:HG11	1.82	0.60
5:T:146:ASN:HD21	5:T:158:LEU:HD21	1.67	0.60
6:U:66:ASP:C	6:V:232:ALA:HB2	2.26	0.60
6:U:281:PRO:CG	6:W:618:THR:HB	2.31	0.60
6:X:188:ALA:HB3	6:X:647:GLY:HA3	1.83	0.60
6:X:497:GLU:H	5:Y:5:MET:HE1	1.67	0.60
6:I:257:SER:O	6:I:261:GLN:HG3	2.02	0.60
6:I:412:ARG:NH2	6:K:459:LEU:HD21	2.08	0.60
6:J:154:ARG:HH11	6:K:246:THR:HB	1.51	0.60
6:O:66:ASP:C	6:P:232:ALA:HB2	2.27	0.60
6:O:82:PHE:HE2	6:P:242:PHE:HZ	1.43	0.60
6:O:118:TYR:HA	6:O:130:PRO:HA	1.83	0.60
6:O:168:THR:HB	6:P:538:ALA:HA	1.84	0.60
6:O:247:SER:C	6:Q:154:ARG:CD	2.74	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:370:VAL:HG13	6:O:403:SER:O	2.02	0.60
5:S:4:HIS:CG	6:W:586:VAL:HG21	1.90	0.60
6:V:517:LEU:O	6:V:521:VAL:HG23	2.01	0.60
1:A:291:PRO:HG2	1:A:295:PHE:CE1	2.36	0.60
1:A:346:PRO:HD2	1:A:349:TRP:HH2	1.63	0.60
2:B:376:LEU:HD23	3:C:795:ASP:O	2.02	0.60
2:B:384:MET:HE3	2:B:1197:TYR:CD1	2.10	0.60
4:E:335:ALA:O	6:U:55:VAL:CB	2.49	0.60
5:H:4:HIS:CE1	6:I:586:VAL:CG2	2.70	0.60
5:H:167:LEU:O	5:H:190:PRO:HD2	2.02	0.60
6:I:44:THR:HG22	6:J:84:LYS:NZ	2.12	0.60
6:I:247:SER:C	6:K:154:ARG:CD	2.74	0.60
5:L:2:PRO:HG2	6:P:587:GLY:CA	2.31	0.60
5:L:159:PRO:HB3	5:L:258:ALA:HA	1.84	0.60
5:M:167:LEU:O	5:M:190:PRO:HD2	2.02	0.60
5:N:4:HIS:CE1	6:O:586:VAL:CG2	2.70	0.60
6:O:333:PRO:HG2	6:P:411:VAL:CG1	2.25	0.60
6:O:530:ARG:NH1	6:P:482:ASP:CG	2.55	0.60
6:P:154:ARG:HH11	6:Q:246:THR:HB	1.52	0.60
6:Q:257:SER:O	6:Q:261:GLN:HG3	2.02	0.60
6:U:29:THR:HA	6:V:609:ARG:HE	1.64	0.60
6:U:281:PRO:HD3	6:W:622:GLU:HG2	1.84	0.60
6:U:281:PRO:HG3	6:W:618:THR:HB	1.83	0.60
6:U:295:ARG:NH1	6:V:354:SER:OG	2.34	0.60
6:U:459:LEU:CD2	6:V:409:ILE:CG2	2.71	0.60
6:U:577:VAL:HG12	6:V:471:LEU:HD22	1.82	0.60
6:V:188:ALA:HB3	6:V:647:GLY:HA3	1.83	0.60
6:V:529:SER:N	6:W:283:SER:HA	2.16	0.60
6:X:494:THR:HG23	5:Y:5:MET:N	2.16	0.60
2:B:353:GLN:OE1	3:C:1022:PRO:HD3	2.02	0.60
2:B:1182:ASN:HB2	4:D:52:PRO:C	2.26	0.60
3:C:1019:THR:HB	3:C:1032:ILE:HB	1.83	0.60
4:E:339:LEU:HB3	6:U:55:VAL:CG1	2.01	0.60
5:F:146:ASN:HD21	5:F:158:LEU:HD21	1.67	0.60
5:H:27:ARG:CZ	5:H:28:THR:H	2.14	0.60
6:I:87:PHE:CZ	6:K:121:ALA:CB	2.82	0.60
6:I:551:GLN:OE1	6:I:555:ALA:HA	2.01	0.60
6:I:637:PHE:CE1	6:J:545:VAL:HB	2.37	0.60
6:J:476:TYR:O	6:J:479:GLU:HB2	2.01	0.60
5:N:167:LEU:O	5:N:190:PRO:HD2	2.02	0.60
6:O:275:GLU:CG	6:Q:630:LEU:HD11	2.22	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:281:PRO:HG3	6:Q:618:THR:HB	1.82	0.60
6:P:30:ALA:HB3	6:Q:610:THR:CA	2.31	0.60
5:S:146:ASN:HD21	5:S:158:LEU:HD21	1.67	0.60
6:U:44:THR:HA	6:V:84:LYS:CE	2.17	0.60
6:U:298:PHE:CB	6:V:419:MET:N	2.61	0.60
6:U:551:GLN:OE1	6:U:555:ALA:HA	2.01	0.60
6:X:476:TYR:O	6:X:479:GLU:HB2	2.01	0.60
1:A:406:ASN:ND2	6:J:102:GLY:N	2.44	0.60
2:B:987:THR:O	2:B:1133:VAL:HA	2.02	0.60
4:D:236:PHE:HB3	4:D:244:ASP:HB3	1.83	0.60
6:I:354:SER:OG	6:K:295:ARG:NH1	2.34	0.60
6:I:619:ASP:HA	6:J:281:PRO:HG2	1.84	0.60
6:J:161:LYS:HE3	6:K:533:ASP:CB	2.30	0.60
6:K:517:LEU:O	6:K:521:VAL:HG23	2.02	0.60
5:N:194:LEU:HD13	6:P:448:PRO:HD2	1.82	0.60
6:O:411:VAL:HG13	6:Q:333:PRO:CD	2.32	0.60
6:P:33:ALA:HB3	6:Q:256:SER:HA	1.79	0.60
6:P:622:GLU:HB2	6:Q:281:PRO:HD3	1.83	0.60
6:P:641:ILE:HD11	6:Q:545:VAL:CG2	2.20	0.60
5:R:167:LEU:O	5:R:190:PRO:HD2	2.02	0.60
5:S:193:GLY:HA2	6:U:364:PRO:HG2	1.69	0.60
5:T:4:HIS:CG	6:U:586:VAL:CB	2.80	0.60
6:U:29:THR:OG1	6:V:609:ARG:HG3	2.02	0.60
6:U:370:VAL:HG13	6:U:403:SER:O	2.02	0.60
6:U:412:ARG:NH2	6:W:459:LEU:HD21	2.10	0.60
6:V:297:ALA:HA	6:W:409:ILE:HD13	1.83	0.60
6:V:529:SER:N	6:W:283:SER:CA	2.64	0.60
6:V:618:THR:HB	6:W:281:PRO:CG	2.32	0.60
2:B:426:ASN:HD22	3:C:609:THR:CB	2.15	0.60
5:H:101:TYR:HB3	5:H:115:ALA:O	2.02	0.60
6:I:459:LEU:HG	6:J:412:ARG:CG	2.32	0.60
6:J:32:PRO:HD3	6:K:609:ARG:O	2.01	0.60
6:J:529:SER:H	6:K:283:SER:N	1.99	0.60
6:J:530:ARG:NH1	6:K:482:ASP:CG	2.56	0.60
5:N:4:HIS:ND1	6:O:586:VAL:CB	2.64	0.60
5:N:159:PRO:HB3	5:N:258:ALA:HA	1.84	0.60
6:O:121:ALA:HB2	6:P:87:PHE:CE2	2.30	0.60
6:O:411:VAL:HG22	6:Q:333:PRO:HB2	1.84	0.60
6:P:517:LEU:O	6:P:521:VAL:HG23	2.02	0.60
6:Q:517:LEU:O	6:Q:521:VAL:HG23	2.02	0.60
6:U:459:LEU:HB2	6:V:412:ARG:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:297:ALA:O	6:W:409:ILE:CD1	2.39	0.60
6:V:370:VAL:HG13	6:V:403:SER:O	2.02	0.60
6:V:551:GLN:OE1	6:V:555:ALA:HA	2.02	0.60
2:B:408:SER:CB	4:D:191:ARG:CZ	2.68	0.59
2:B:954:PRO:CB	4:D:43:HIS:CD2	2.71	0.59
2:B:959:ARG:HH21	4:D:40:ARG:HA	1.66	0.59
5:G:27:ARG:CZ	5:G:28:THR:H	2.15	0.59
6:I:281:PRO:CG	6:K:618:THR:HB	2.32	0.59
6:I:456:ASN:HD21	6:J:412:ARG:CD	2.14	0.59
6:J:38:PRO:HA	6:J:41:LEU:HD12	1.84	0.59
6:J:298:PHE:HE1	6:K:416:ARG:HB3	1.66	0.59
6:J:529:SER:N	6:K:283:SER:CA	2.65	0.59
6:O:418:ASN:C	6:Q:298:PHE:CB	2.63	0.59
6:P:529:SER:N	6:Q:283:SER:CA	2.64	0.59
5:T:159:PRO:HB3	5:T:258:ALA:HA	1.85	0.59
6:U:411:VAL:HG22	6:W:333:PRO:HB2	1.82	0.59
6:U:411:VAL:HG13	6:W:333:PRO:CD	2.32	0.59
6:U:412:ARG:HA	6:W:456:ASN:HB2	1.81	0.59
6:V:622:GLU:HB2	6:W:281:PRO:HD3	1.84	0.59
6:W:118:TYR:HA	6:W:130:PRO:HA	1.84	0.59
5:Y:167:LEU:O	5:Y:190:PRO:HD2	2.02	0.59
3:C:137:ARG:HG2	3:C:142:ASP:O	2.01	0.59
4:D:389:PHE:HB3	6:P:54:SER:HB2	1.13	0.59
5:G:144:VAL:HA	5:G:148:CYS:HB2	1.82	0.59
6:I:281:PRO:HG3	6:K:618:THR:HB	1.82	0.59
6:I:363:ASN:O	6:I:366:LEU:HG	2.02	0.59
6:J:618:THR:HB	6:K:281:PRO:CG	2.32	0.59
5:L:52:CYS:C	5:L:54:THR:H	2.10	0.59
6:O:257:SER:O	6:O:261:GLN:HG3	2.02	0.59
6:U:161:LYS:O	6:V:534:SER:HB2	2.02	0.59
6:U:298:PHE:HB3	6:V:419:MET:H	1.62	0.59
6:U:412:ARG:HH22	6:W:459:LEU:CD2	1.81	0.59
6:W:363:ASN:O	6:W:366:LEU:HG	2.02	0.59
6:X:118:TYR:HA	6:X:130:PRO:HA	1.84	0.59
6:X:517:LEU:O	6:X:521:VAL:HG23	2.01	0.59
4:D:343:GLN:HE21	6:V:54:SER:CB	2.15	0.59
5:G:4:HIS:CG	6:K:586:VAL:HG21	1.89	0.59
5:H:4:HIS:CG	6:I:586:VAL:CG1	2.83	0.59
6:J:202:THR:C	6:J:204:PRO:HD3	2.28	0.59
5:L:146:ASN:HD21	5:L:158:LEU:HD21	1.67	0.59
5:L:167:LEU:O	5:L:190:PRO:HD2	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:61:LEU:HD11	6:O:127:LEU:HA	1.82	0.59
6:O:161:LYS:CD	6:P:533:ASP:CG	2.59	0.59
6:O:412:ARG:HA	6:Q:456:ASN:HB2	1.81	0.59
6:O:459:LEU:HB2	6:P:412:ARG:HB2	1.82	0.59
6:O:644:LEU:CA	6:P:548:LYS:CE	2.62	0.59
6:P:154:ARG:HH11	6:Q:246:THR:CB	2.14	0.59
6:P:161:LYS:HE2	6:Q:533:ASP:OD2	1.99	0.59
5:R:130:PHE:HE1	6:W:368:THR:CG2	2.15	0.59
5:S:4:HIS:CE1	6:W:586:VAL:CA	2.84	0.59
5:T:4:HIS:ND1	6:U:586:VAL:CB	2.64	0.59
6:U:363:ASN:O	6:U:366:LEU:HG	2.02	0.59
6:U:459:LEU:HG	6:V:412:ARG:CG	2.33	0.59
6:V:257:SER:O	6:V:261:GLN:HG3	2.02	0.59
6:W:61:LEU:HD11	6:W:127:LEU:HA	1.83	0.59
6:X:202:THR:C	6:X:204:PRO:HD3	2.27	0.59
6:X:494:THR:CA	5:Y:5:MET:HE2	2.19	0.59
5:Y:27:ARG:CZ	5:Y:28:THR:H	2.15	0.59
1:A:248:LEU:O	1:A:248:LEU:HG	2.01	0.59
2:B:373:ARG:HG3	2:B:385:VAL:HG12	1.84	0.59
2:B:445:PHE:HE2	4:D:195:GLN:NE2	2.01	0.59
4:E:9:LEU:HD11	4:E:117:ASN:ND2	2.17	0.59
5:F:167:LEU:O	5:F:190:PRO:HD2	2.02	0.59
6:I:530:ARG:NH1	6:J:482:ASP:CG	2.56	0.59
6:J:161:LYS:C	6:K:534:SER:OG	2.45	0.59
6:K:202:THR:C	6:K:204:PRO:HD3	2.27	0.59
6:K:257:SER:O	6:K:261:GLN:HG3	2.02	0.59
5:M:27:ARG:CZ	5:M:28:THR:H	2.15	0.59
5:N:27:ARG:CZ	5:N:28:THR:H	2.16	0.59
6:O:151:ALA:HA	6:P:248:GLU:OE2	2.03	0.59
6:O:253:VAL:CG1	6:Q:36:LEU:CD2	2.77	0.59
6:O:409:ILE:CG2	6:Q:459:LEU:CD2	2.74	0.59
6:O:529:SER:N	6:P:283:SER:HA	2.17	0.59
6:P:282:VAL:HG21	6:P:473:GLU:HA	1.82	0.59
6:P:363:ASN:O	6:P:366:LEU:HG	2.02	0.59
6:P:459:LEU:HD21	6:Q:409:ILE:HG22	1.76	0.59
5:R:101:TYR:HB3	5:R:115:ALA:O	2.02	0.59
6:U:151:ALA:HA	6:V:248:GLU:OE2	2.02	0.59
6:U:202:THR:C	6:U:204:PRO:HD3	2.28	0.59
6:U:257:SER:O	6:U:261:GLN:HG3	2.02	0.59
6:W:257:SER:O	6:W:261:GLN:HG3	2.03	0.59
1:A:1225:ASP:HA	1:A:1228:ARG:NH1	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:27:ARG:CZ	5:F:28:THR:H	2.15	0.59
6:I:36:LEU:HD11	6:J:242:PHE:CE1	2.37	0.59
6:I:161:LYS:O	6:J:534:SER:HB2	2.03	0.59
6:I:202:THR:C	6:I:204:PRO:HD3	2.27	0.59
5:L:162:SER:HB2	5:L:264:GLN:HB3	1.84	0.59
5:M:146:ASN:HD21	5:M:158:LEU:HD21	1.67	0.59
5:N:162:SER:HB2	5:N:264:GLN:HB3	1.84	0.59
6:O:154:ARG:NH1	6:P:246:THR:C	2.54	0.59
6:O:298:PHE:C	6:P:418:ASN:OD1	2.45	0.59
6:O:619:ASP:HA	6:P:281:PRO:HG2	1.84	0.59
6:P:257:SER:O	6:P:261:GLN:HG3	2.01	0.59
5:S:4:HIS:CE1	6:W:586:VAL:CG2	2.67	0.59
6:U:333:PRO:HG2	6:V:411:VAL:CG1	2.25	0.59
6:V:299:ILE:HD11	6:W:419:MET:HE1	1.78	0.59
6:W:485:VAL:O	6:W:489:VAL:HG23	2.03	0.59
5:Y:159:PRO:HB3	5:Y:258:ALA:HA	1.85	0.59
2:B:310:LYS:CB	2:B:399:ARG:CZ	2.80	0.59
2:B:429:ASN:HD21	3:C:611:PRO:CD	2.15	0.59
3:C:791:ALA:O	4:D:226:SER:OG	2.20	0.59
4:E:305:LEU:HB2	4:E:310:GLN:NE2	2.17	0.59
6:I:280:LEU:HD12	6:K:622:GLU:HB2	1.76	0.59
6:I:459:LEU:CD2	6:J:409:ILE:CG2	2.71	0.59
6:P:38:PRO:HA	6:P:41:LEU:HD12	1.84	0.59
6:P:50:PRO:HD3	6:P:118:TYR:CE1	2.38	0.59
6:P:160:GLN:HE22	6:Q:612:SER:C	1.74	0.59
6:U:36:LEU:HD11	6:V:242:PHE:CE1	2.37	0.59
6:U:242:PHE:CG	6:W:36:LEU:CD2	2.76	0.59
6:V:44:THR:HG22	6:W:84:LYS:HZ1	1.61	0.59
6:V:282:VAL:HG21	6:V:473:GLU:HA	1.83	0.59
1:A:1111:PHE:CZ	1:A:1119:PRO:HA	2.37	0.59
3:C:1012:ARG:HB2	3:C:1012:ARG:NH2	2.18	0.59
5:H:4:HIS:CG	6:I:586:VAL:CB	2.81	0.59
6:I:275:GLU:HG3	6:K:630:LEU:HD11	1.79	0.59
6:J:66:ASP:CG	6:K:232:ALA:HB1	1.97	0.59
6:J:188:ALA:HB3	6:J:647:GLY:HA3	1.84	0.59
6:J:363:ASN:C	6:J:365:ASP:H	2.11	0.59
5:L:191:LYS:C	6:Q:364:PRO:HB3	2.27	0.59
6:O:29:THR:OG1	6:P:609:ARG:HG3	2.03	0.59
5:R:146:ASN:HD21	5:R:158:LEU:HD21	1.68	0.59
5:S:159:PRO:HB3	5:S:258:ALA:HA	1.84	0.59
5:T:101:TYR:HB3	5:T:115:ALA:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:533:ASP:OD2	6:W:161:LYS:HE2	2.00	0.59
5:Y:101:TYR:HB3	5:Y:115:ALA:O	2.02	0.59
1:A:336:PHE:HA	1:A:339:ARG:HH11	1.67	0.59
2:B:310:LYS:HG3	2:B:399:ARG:HH12	1.66	0.59
2:B:409:MET:HE3	2:B:443:PRO:HB2	1.58	0.59
3:C:1123:GLN:HG2	3:C:1158:PHE:HB3	1.83	0.59
6:I:66:ASP:C	6:J:232:ALA:HB2	2.26	0.59
6:I:193:ILE:HG22	6:J:562:TYR:CE2	2.23	0.59
6:I:275:GLU:CG	6:K:630:LEU:HD11	2.23	0.59
6:I:409:ILE:CG2	6:K:459:LEU:CD2	2.74	0.59
6:I:471:LEU:CD2	6:K:577:VAL:HG12	2.33	0.59
6:I:485:VAL:O	6:I:489:VAL:HG23	2.03	0.59
6:J:36:LEU:CD2	6:K:242:PHE:CB	2.22	0.59
6:J:257:SER:O	6:J:261:GLN:HG3	2.03	0.59
6:K:534:SER:O	6:K:537:SER:OG	2.21	0.59
5:L:101:TYR:HB3	5:L:115:ALA:O	2.02	0.59
6:O:235:LEU:HD21	6:Q:42:ASN:HD22	1.48	0.59
6:O:533:ASP:OD2	6:Q:161:LYS:HE2	2.00	0.59
6:P:29:THR:OG1	6:Q:609:ARG:CG	2.51	0.59
6:P:161:LYS:NZ	6:Q:534:SER:N	2.33	0.59
6:P:459:LEU:HD13	6:Q:414:GLN:HG3	1.81	0.59
6:Q:476:TYR:O	6:Q:479:GLU:HB2	2.02	0.59
5:R:44:GLY:HA3	6:W:401:GLY:N	2.18	0.59
5:S:27:ARG:CZ	5:S:28:THR:H	2.16	0.59
5:T:194:LEU:HD13	6:V:448:PRO:HD2	1.83	0.59
6:U:121:ALA:HB1	6:V:87:PHE:HB3	1.84	0.59
6:U:456:ASN:HD21	6:V:412:ARG:CD	2.14	0.59
6:U:459:LEU:CD2	6:V:414:GLN:NE2	2.47	0.59
6:U:530:ARG:HA	6:V:472:ARG:HD3	1.09	0.59
6:V:363:ASN:O	6:V:366:LEU:HG	2.03	0.59
6:V:529:SER:H	6:W:283:SER:N	2.00	0.59
6:W:370:VAL:HG13	6:W:403:SER:O	2.02	0.59
1:A:490:ASP:HB2	1:A:533:ILE:HG13	1.85	0.59
2:B:437:ARG:HH11	4:D:173:ALA:CA	2.01	0.59
2:B:890:GLN:NE2	2:B:891:PHE:CE2	2.71	0.59
4:D:393:ASP:CG	6:P:53:THR:O	2.43	0.59
5:F:2:PRO:HG2	6:J:587:GLY:CA	2.31	0.59
6:K:188:ALA:HB3	6:K:647:GLY:HA3	1.85	0.59
5:N:146:ASN:HD21	5:N:158:LEU:HD21	1.67	0.59
6:P:161:LYS:C	6:Q:534:SER:OG	2.45	0.59
6:Q:295:ARG:HH11	6:Q:298:PHE:HB2	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Q:363:ASN:O	6:Q:366:LEU:HG	2.03	0.59
6:U:11:TYR:CD1	6:U:11:TYR:O	2.56	0.59
6:W:295:ARG:HH11	6:W:298:PHE:HB2	1.65	0.59
3:C:344:TYR:HE2	3:C:369:GLY:HA2	1.68	0.59
4:D:136:TRP:CD1	4:D:198:GLN:OE1	2.41	0.59
5:F:44:GLY:HA3	6:K:401:GLY:N	2.18	0.59
5:F:162:SER:HB2	5:F:264:GLN:HB3	1.83	0.59
5:G:146:ASN:HD21	5:G:158:LEU:HD21	1.67	0.59
6:I:29:THR:CB	6:J:609:ARG:HG3	2.14	0.59
6:I:84:LYS:CE	6:K:44:THR:HA	2.16	0.59
6:I:154:ARG:NH1	6:J:246:THR:C	2.53	0.59
6:J:363:ASN:O	6:J:366:LEU:HG	2.02	0.59
6:P:147:ARG:HG2	6:W:100:LYS:CE	2.22	0.59
6:P:202:THR:C	6:P:204:PRO:HD3	2.28	0.59
5:S:162:SER:HB2	5:S:264:GLN:HB3	1.84	0.59
5:T:52:CYS:C	5:T:54:THR:H	2.11	0.59
6:U:298:PHE:C	6:V:418:ASN:OD1	2.45	0.59
5:Y:162:SER:HB2	5:Y:264:GLN:HB3	1.83	0.59
1:A:69:SER:N	1:A:70:PRO:HD2	2.18	0.58
1:A:111:ARG:HB3	1:A:139:PHE:CD1	2.37	0.58
1:A:377:ARG:NE	6:I:51:VAL:HG21	2.18	0.58
2:B:329:MET:HB3	2:B:370:ARG:HB3	1.85	0.58
2:B:383:ALA:O	2:B:384:MET:CG	2.51	0.58
2:B:431:THR:HB	2:B:1209:TYR:HB2	1.84	0.58
4:D:141:ASP:HA	4:D:144:ILE:HD12	1.85	0.58
5:F:101:TYR:HB3	5:F:115:ALA:O	2.03	0.58
5:H:144:VAL:HA	5:H:148:CYS:HB2	1.84	0.58
6:I:363:ASN:C	6:I:365:ASP:H	2.11	0.58
6:I:517:LEU:O	6:I:521:VAL:HG23	2.02	0.58
6:I:627:ARG:CG	6:J:272:ASP:OD1	2.50	0.58
6:J:165:THR:CB	6:K:534:SER:HB2	2.25	0.58
6:J:370:VAL:HG13	6:J:403:SER:O	2.02	0.58
6:K:293:SER:HB3	6:K:463:LEU:HD11	1.85	0.58
5:N:202:ALA:HB1	5:N:250:HIS:HB2	1.85	0.58
6:O:29:THR:CB	6:P:609:ARG:HG3	2.15	0.58
6:P:363:ASN:C	6:P:365:ASP:H	2.11	0.58
5:R:162:SER:HB2	5:R:264:GLN:HB3	1.84	0.58
5:T:193:GLY:HA2	6:V:364:PRO:HG2	1.62	0.58
6:V:30:ALA:CA	6:W:610:THR:CG2	2.59	0.58
6:V:161:LYS:C	6:W:534:SER:OG	2.46	0.58
6:V:456:ASN:OD1	6:W:412:ARG:CA	2.22	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:456:ASN:HD21	6:W:412:ARG:CD	2.09	0.58
6:W:517:LEU:O	6:W:521:VAL:HG23	2.02	0.58
5:Y:146:ASN:HD21	5:Y:158:LEU:HD21	1.67	0.58
5:Y:214:ARG:HA	5:Y:234:ARG:NH2	2.18	0.58
3:C:282:TYR:CD1	3:C:284:ASP:HB2	2.38	0.58
5:G:101:TYR:HB3	5:G:115:ALA:O	2.02	0.58
6:I:459:LEU:HB2	6:J:412:ARG:HE	1.68	0.58
6:K:292:ARG:NH2	6:K:293:SER:H	2.01	0.58
5:N:52:CYS:C	5:N:54:THR:H	2.11	0.58
6:O:517:LEU:O	6:O:521:VAL:HG23	2.02	0.58
6:P:370:VAL:HG13	6:P:403:SER:O	2.03	0.58
5:S:4:HIS:ND1	6:W:586:VAL:CB	2.66	0.58
6:V:530:ARG:CZ	6:W:482:ASP:OD1	2.51	0.58
6:W:202:THR:C	6:W:204:PRO:HD3	2.29	0.58
6:W:363:ASN:C	6:W:365:ASP:H	2.11	0.58
2:B:312:ASN:HD22	2:B:1196:ARG:CZ	2.16	0.58
2:B:665:SER:OG	2:B:672:SER:HA	2.02	0.58
2:B:1056:VAL:HG11	2:B:1107:ILE:O	2.03	0.58
4:E:332:PRO:CA	6:U:54:SER:OG	2.49	0.58
5:F:130:PHE:HE1	6:K:368:THR:CG2	2.16	0.58
5:G:52:CYS:C	5:G:54:THR:H	2.11	0.58
6:I:29:THR:OG1	6:J:609:ARG:HG3	2.02	0.58
6:J:36:LEU:CA	6:K:253:VAL:HG12	2.31	0.58
6:J:622:GLU:HB2	6:K:281:PRO:HD3	1.85	0.58
5:M:162:SER:HB2	5:M:264:GLN:HB3	1.84	0.58
5:N:101:TYR:HB3	5:N:115:ALA:O	2.02	0.58
5:N:192:THR:O	6:P:364:PRO:HB2	2.03	0.58
6:O:161:LYS:O	6:P:534:SER:HB2	2.01	0.58
6:P:297:ALA:O	6:Q:409:ILE:CD1	2.40	0.58
5:T:214:ARG:HA	5:T:234:ARG:NH2	2.18	0.58
6:U:363:ASN:C	6:U:365:ASP:H	2.12	0.58
6:V:82:PHE:CZ	6:W:242:PHE:HE1	2.18	0.58
6:V:118:TYR:HA	6:V:130:PRO:HA	1.85	0.58
6:X:363:ASN:C	6:X:365:ASP:H	2.11	0.58
2:B:955:SER:H	2:B:959:ARG:CZ	2.15	0.58
4:E:336:ALA:HB2	6:U:54:SER:CB	2.33	0.58
5:F:202:ALA:HB1	5:F:250:HIS:HB2	1.86	0.58
6:I:411:VAL:HG13	6:K:333:PRO:CD	2.32	0.58
6:I:472:ARG:HD2	6:K:530:ARG:N	1.91	0.58
6:I:612:SER:HB2	6:K:160:GLN:CG	1.97	0.58
6:J:457:PRO:C	6:K:412:ARG:CD	2.49	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:485:VAL:O	6:J:489:VAL:HG23	2.03	0.58
6:J:530:ARG:CZ	6:K:482:ASP:OD1	2.51	0.58
6:K:118:TYR:HA	6:K:130:PRO:HA	1.84	0.58
6:O:485:VAL:O	6:O:489:VAL:HG23	2.03	0.58
6:P:562:TYR:HD1	6:P:562:TYR:H	1.51	0.58
6:P:640:GLN:CD	6:Q:545:VAL:CG1	2.52	0.58
6:P:641:ILE:HG12	6:Q:545:VAL:HG13	1.80	0.58
6:Q:409:ILE:O	6:Q:414:GLN:OE1	2.20	0.58
6:Q:514:LEU:HD21	6:Q:597:LEU:HD21	1.85	0.58
5:T:27:ARG:CZ	5:T:28:THR:H	2.15	0.58
6:U:165:THR:CG2	6:V:534:SER:HA	2.02	0.58
6:U:548:LYS:HE2	6:W:644:LEU:HB3	1.78	0.58
6:U:641:ILE:HG12	6:V:545:VAL:HG13	1.68	0.58
6:V:514:LEU:HD21	6:V:597:LEU:HD21	1.85	0.58
6:V:644:LEU:CD2	6:W:548:LYS:HZ2	1.73	0.58
6:W:534:SER:O	6:W:537:SER:OG	2.22	0.58
6:I:298:PHE:C	6:J:418:ASN:OD1	2.45	0.58
6:I:641:ILE:CG1	6:J:545:VAL:HG21	2.29	0.58
6:J:118:TYR:HA	6:J:130:PRO:HA	1.84	0.58
6:K:363:ASN:O	6:K:366:LEU:HG	2.02	0.58
5:N:214:ARG:HA	5:N:234:ARG:NH2	2.19	0.58
6:O:44:THR:HA	6:P:84:LYS:CE	2.19	0.58
6:O:165:THR:O	6:P:537:SER:HB2	2.03	0.58
6:O:412:ARG:NH2	6:Q:459:LEU:HD21	2.10	0.58
6:O:419:MET:HE1	6:Q:299:ILE:HD11	1.82	0.58
6:O:459:LEU:HB2	6:P:412:ARG:HE	1.69	0.58
5:R:27:ARG:CZ	5:R:28:THR:H	2.16	0.58
6:U:32:PRO:C	6:V:613:LEU:CD2	2.65	0.58
6:U:253:VAL:CG1	6:W:36:LEU:CD2	2.78	0.58
6:V:456:ASN:HB2	6:W:412:ARG:HA	1.76	0.58
6:X:293:SER:HB3	6:X:463:LEU:HD11	1.85	0.58
1:A:406:ASN:HD21	6:J:102:GLY:HA3	1.69	0.58
2:B:380:GLU:CA	3:C:798:VAL:HG22	2.34	0.58
3:C:415:GLN:O	3:C:419:ILE:HG12	2.03	0.58
3:C:709:ILE:HG22	3:C:713:ASN:OD1	2.04	0.58
3:C:792:GLN:HE22	4:D:346:LEU:C	2.12	0.58
5:H:202:ALA:HB1	5:H:250:HIS:HB2	1.85	0.58
5:H:214:ARG:HA	5:H:234:ARG:NH2	2.18	0.58
6:I:118:TYR:HA	6:I:130:PRO:HA	1.84	0.58
5:L:214:ARG:HA	5:L:234:ARG:NH2	2.18	0.58
6:P:30:ALA:CA	6:Q:610:THR:CG2	2.60	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:161:LYS:HE3	6:Q:533:ASP:CB	2.30	0.58
6:P:456:ASN:OD1	6:Q:412:ARG:CA	2.23	0.58
6:U:36:LEU:HB3	6:V:253:VAL:HG13	1.73	0.58
6:U:168:THR:HB	6:V:538:ALA:HA	1.83	0.58
6:U:619:ASP:HA	6:V:281:PRO:HG2	1.85	0.58
6:V:165:THR:O	6:W:537:SER:CB	2.51	0.58
6:V:293:SER:HB3	6:V:463:LEU:HD11	1.86	0.58
1:A:316:GLN:HG2	1:A:358:LEU:H	1.68	0.58
1:A:830:HIS:HA	1:A:851:GLN:O	2.04	0.58
2:B:951:PRO:HD3	4:D:98:SER:HB2	1.85	0.58
4:E:224:ASN:HD21	4:E:227:ARG:HD2	1.67	0.58
6:J:154:ARG:CD	6:K:247:SER:C	2.75	0.58
6:J:169:MET:N	6:K:541:SER:OG	2.36	0.58
6:J:370:VAL:O	6:J:443:PHE:HA	2.04	0.58
5:M:52:CYS:C	5:M:54:THR:H	2.11	0.58
6:O:363:ASN:C	6:O:365:ASP:H	2.12	0.58
6:O:363:ASN:O	6:O:366:LEU:HG	2.04	0.58
6:Q:118:TYR:HA	6:Q:130:PRO:HA	1.85	0.58
5:T:167:LEU:O	5:T:190:PRO:HD2	2.02	0.58
6:U:412:ARG:HB3	6:W:459:LEU:HD12	1.71	0.58
6:X:363:ASN:O	6:X:366:LEU:HG	2.03	0.58
6:X:370:VAL:HG13	6:X:403:SER:O	2.02	0.58
5:Y:52:CYS:C	5:Y:54:THR:H	2.11	0.58
2:B:237:GLU:HB3	2:B:1152:ALA:HB2	1.86	0.58
2:B:376:LEU:C	3:C:797:ALA:CB	2.77	0.58
2:B:858:VAL:CG2	2:B:861:ARG:HH21	2.17	0.58
2:B:956:HIS:HD2	4:D:43:HIS:NE2	1.97	0.58
3:C:671:PRO:HB2	3:C:673:ASN:OD1	2.04	0.58
3:C:1053:GLN:O	3:C:1109:PRO:HA	2.04	0.58
3:C:1195:TYR:CD1	3:C:1197:TYR:OH	2.54	0.58
4:D:270:ILE:HD11	4:D:329:ASN:HB2	1.85	0.58
4:E:339:LEU:HB3	6:U:55:VAL:HB	1.84	0.58
5:H:146:ASN:HD21	5:H:158:LEU:HD21	1.67	0.58
6:J:292:ARG:NH2	6:J:293:SER:H	2.02	0.58
6:K:409:ILE:O	6:K:414:GLN:OE1	2.20	0.58
5:M:214:ARG:HA	5:M:234:ARG:NH2	2.18	0.58
6:O:459:LEU:CD2	6:P:412:ARG:HH22	1.82	0.58
6:P:295:ARG:HH11	6:P:298:PHE:CB	2.16	0.58
5:S:52:CYS:C	5:S:54:THR:H	2.11	0.58
5:S:101:TYR:HB3	5:S:115:ALA:O	2.03	0.58
6:U:641:ILE:CG1	6:V:545:VAL:CB	2.77	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:29:THR:OG1	6:W:609:ARG:CG	2.51	0.58
6:V:154:ARG:NH1	6:W:246:THR:CB	2.61	0.58
6:V:363:ASN:C	6:V:365:ASP:H	2.11	0.58
6:W:11:TYR:O	6:W:11:TYR:CD1	2.57	0.58
6:W:38:PRO:HA	6:W:41:LEU:HD12	1.86	0.58
6:W:370:VAL:O	6:W:443:PHE:HA	2.04	0.58
6:X:588:ILE:H	5:Y:2:PRO:HG2	1.58	0.58
5:Y:202:ALA:HB1	5:Y:250:HIS:HB2	1.86	0.58
2:B:746:TYR:HA	2:B:750:MET:SD	2.44	0.58
5:F:159:PRO:HB3	5:F:258:ALA:HA	1.86	0.58
5:G:191:LYS:C	6:I:364:PRO:HB3	2.28	0.58
6:I:333:PRO:HG2	6:J:411:VAL:CG1	2.26	0.58
6:I:411:VAL:HG22	6:K:333:PRO:HB2	1.84	0.58
6:I:412:ARG:HA	6:K:456:ASN:HB2	1.81	0.58
6:I:418:ASN:C	6:K:298:PHE:CB	2.62	0.58
6:I:529:SER:N	6:J:283:SER:HA	2.19	0.58
6:J:82:PHE:CZ	6:K:242:PHE:HE1	2.17	0.58
6:J:165:THR:O	6:K:537:SER:CB	2.52	0.58
6:J:295:ARG:HH11	6:J:298:PHE:CB	2.17	0.58
6:J:640:GLN:CD	6:K:545:VAL:CG1	2.50	0.58
6:O:44:THR:HG22	6:P:84:LYS:HZ1	1.65	0.58
6:O:292:ARG:NH2	6:O:293:SER:H	2.02	0.58
6:U:275:GLU:HG3	6:W:630:LEU:HD11	1.79	0.58
6:U:281:PRO:CD	6:W:622:GLU:OE1	2.52	0.58
6:U:529:SER:N	6:V:283:SER:HA	2.19	0.58
2:B:1178:ARG:H	2:B:1178:ARG:CZ	2.16	0.58
3:C:315:SER:N	3:C:1196:ARG:CG	2.63	0.58
4:E:209:ARG:HG3	4:E:290:VAL:HG11	1.84	0.58
6:I:537:SER:OG	6:K:165:THR:O	2.22	0.58
6:I:641:ILE:CG1	6:J:545:VAL:CB	2.78	0.58
6:J:161:LYS:HE2	6:K:533:ASP:C	2.29	0.58
6:J:293:SER:HB3	6:J:463:LEU:HD11	1.85	0.58
6:K:514:LEU:HD21	6:K:597:LEU:HD21	1.86	0.58
5:L:130:PHE:HE1	6:Q:368:THR:CG2	2.16	0.58
5:M:4:HIS:ND1	6:Q:586:VAL:CB	2.67	0.58
6:P:160:GLN:NE2	6:Q:612:SER:CA	1.87	0.58
6:P:378:THR:HB	6:P:391:ILE:O	2.04	0.58
6:U:471:LEU:CD2	6:W:577:VAL:HG12	2.34	0.58
6:W:409:ILE:O	6:W:414:GLN:OE1	2.21	0.58
2:B:437:ARG:NE	4:D:173:ALA:C	2.61	0.57
2:B:830:ASN:HD21	2:B:832:ILE:HD11	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:72:LEU:HG	4:E:76:LEU:HD13	1.86	0.57
6:I:84:LYS:CE	6:K:44:THR:CA	2.47	0.57
6:I:242:PHE:CG	6:K:36:LEU:CD2	2.76	0.57
6:I:292:ARG:NH2	6:I:293:SER:H	2.02	0.57
6:O:253:VAL:HG13	6:Q:36:LEU:HB3	1.77	0.57
6:P:297:ALA:HA	6:Q:409:ILE:HD13	1.84	0.57
6:P:388:ALA:O	6:P:391:ILE:HG13	2.04	0.57
6:P:409:ILE:O	6:P:414:GLN:OE1	2.22	0.57
6:P:530:ARG:H	6:Q:472:ARG:HD2	1.59	0.57
5:R:214:ARG:HA	5:R:234:ARG:NH2	2.19	0.57
5:S:45:ARG:N	6:U:400:ALA:HA	2.19	0.57
5:T:162:SER:HB2	5:T:264:GLN:HB3	1.85	0.57
6:U:161:LYS:CD	6:V:533:ASP:CG	2.59	0.57
6:U:418:ASN:OD1	6:W:298:PHE:C	2.46	0.57
6:U:485:VAL:O	6:U:489:VAL:HG23	2.04	0.57
6:V:38:PRO:HA	6:V:41:LEU:HD12	1.85	0.57
6:V:161:LYS:HE2	6:W:533:ASP:C	2.29	0.57
6:V:292:ARG:NH2	6:V:293:SER:H	2.01	0.57
6:X:485:VAL:O	6:X:489:VAL:HG23	2.04	0.57
1:A:161:ASP:HB2	1:A:165:THR:OG1	2.03	0.57
1:A:267:MET:CB	1:A:271:ARG:HH21	2.16	0.57
1:A:770:ARG:CZ	1:A:773:ARG:HH11	2.17	0.57
2:B:321:VAL:HG21	3:C:891:PHE:CE1	2.39	0.57
2:B:452:ARG:HD2	2:B:668:LEU:HD23	1.86	0.57
2:B:954:PRO:CA	4:D:35:ARG:HH12	2.11	0.57
3:C:792:GLN:NE2	4:D:225:ARG:HH11	1.95	0.57
4:D:225:ARG:HA	4:D:233:TYR:CE2	2.39	0.57
4:E:339:LEU:CD1	6:U:55:VAL:HG13	2.13	0.57
5:G:45:ARG:N	6:I:400:ALA:HA	2.19	0.57
6:I:11:TYR:O	6:I:11:TYR:CD1	2.57	0.57
6:I:121:ALA:HB1	6:J:87:PHE:HB3	1.85	0.57
5:M:194:LEU:HD21	6:O:447:SER:HB2	1.79	0.57
6:O:30:ALA:CB	6:P:610:THR:CA	2.81	0.57
6:O:456:ASN:HD21	6:P:412:ARG:CD	2.17	0.57
6:O:612:SER:HB2	6:Q:160:GLN:CG	1.96	0.57
6:P:161:LYS:HE2	6:Q:533:ASP:C	2.28	0.57
6:Q:293:SER:HB3	6:Q:463:LEU:HD11	1.85	0.57
6:Q:388:ALA:O	6:Q:391:ILE:HG13	2.03	0.57
5:S:214:ARG:HA	5:S:234:ARG:NH2	2.19	0.57
6:V:202:THR:C	6:V:204:PRO:HD3	2.28	0.57
6:W:293:SER:HB3	6:W:463:LEU:HD11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:W:388:ALA:O	6:W:391:ILE:HG13	2.04	0.57
2:B:397:HIS:CG	2:B:400:GLU:OE2	2.56	0.57
3:C:402:TYR:O	3:C:406:LEU:HG	2.04	0.57
4:D:9:LEU:HB3	4:D:146:THR:HG23	1.86	0.57
5:F:214:ARG:HA	5:F:234:ARG:NH2	2.19	0.57
6:I:283:SER:CB	6:K:529:SER:N	2.67	0.57
6:J:381:PRO:HA	6:J:438:TYR:OH	2.04	0.57
6:J:644:LEU:HA	6:K:548:LYS:HE3	1.85	0.57
6:O:82:PHE:CE2	6:P:242:PHE:CE1	2.90	0.57
6:O:242:PHE:CG	6:Q:36:LEU:CD2	2.77	0.57
6:O:411:VAL:CB	6:Q:333:PRO:O	2.50	0.57
6:P:169:MET:N	6:Q:541:SER:OG	2.36	0.57
6:Q:202:THR:C	6:Q:204:PRO:HD3	2.28	0.57
5:T:44:GLY:C	6:V:400:ALA:HB2	2.15	0.57
6:U:247:SER:C	6:W:154:ARG:CD	2.73	0.57
6:V:333:PRO:CA	6:W:411:VAL:HG22	2.30	0.57
6:V:485:VAL:O	6:V:489:VAL:HG23	2.04	0.57
5:Y:158:LEU:HG	5:Y:160:ILE:HG12	1.86	0.57
3:C:373:ARG:NH2	3:C:373:ARG:H	2.02	0.57
4:D:230:ASN:HA	4:D:255:ARG:HG3	1.86	0.57
5:F:52:CYS:C	5:F:54:THR:H	2.12	0.57
5:G:214:ARG:HA	5:G:234:ARG:NH2	2.19	0.57
5:H:191:LYS:O	6:J:364:PRO:CB	2.38	0.57
6:I:418:ASN:OD1	6:K:298:PHE:C	2.47	0.57
6:J:11:TYR:CD1	6:J:11:TYR:O	2.58	0.57
6:J:388:ALA:O	6:J:391:ILE:HG13	2.04	0.57
6:O:514:LEU:HD21	6:O:597:LEU:HD21	1.86	0.57
6:P:292:ARG:NH2	6:P:293:SER:H	2.01	0.57
6:Q:292:ARG:NH2	6:Q:293:SER:H	2.02	0.57
6:U:118:TYR:HA	6:U:130:PRO:HA	1.86	0.57
6:V:370:VAL:O	6:V:443:PHE:HA	2.04	0.57
6:W:381:PRO:HA	6:W:438:TYR:OH	2.05	0.57
6:W:606:THR:HG22	6:W:609:ARG:CZ	2.34	0.57
6:X:381:PRO:HA	6:X:438:TYR:OH	2.04	0.57
1:A:477:ARG:HB3	1:A:478:ARG:NH2	2.18	0.57
1:A:906:ALA:O	1:A:908:THR:HG23	2.05	0.57
3:C:673:ASN:ND2	3:C:674:ARG:HG2	2.20	0.57
4:D:13:PHE:CD1	4:D:19:PRO:HA	2.39	0.57
5:G:4:HIS:ND1	6:K:586:VAL:CB	2.67	0.57
5:G:159:PRO:HB3	5:G:258:ALA:HA	1.86	0.57
6:I:144:ASN:HD22	6:I:147:ARG:CZ	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:283:SER:HA	6:K:529:SER:N	2.18	0.57
6:J:622:GLU:HG2	6:K:281:PRO:HD3	1.87	0.57
6:K:381:PRO:HA	6:K:438:TYR:OH	2.04	0.57
6:O:459:LEU:CD2	6:P:409:ILE:CG2	2.71	0.57
6:P:300:LYS:HE2	6:Q:418:ASN:HD21	1.69	0.57
6:P:530:ARG:CZ	6:Q:482:ASP:OD1	2.52	0.57
5:R:52:CYS:C	5:R:54:THR:H	2.12	0.57
6:U:298:PHE:CD2	6:V:407:LEU:O	2.57	0.57
6:U:322:TYR:HB3	6:U:325:ALA:HB3	1.86	0.57
6:U:419:MET:CE	6:W:299:ILE:HD13	2.24	0.57
6:V:577:VAL:HG12	6:W:471:LEU:CD2	2.35	0.57
6:W:514:LEU:HD21	6:W:597:LEU:HD21	1.86	0.57
1:A:377:ARG:HE	6:I:51:VAL:HG21	1.70	0.57
1:A:574:THR:HB	1:A:611:THR:CG2	2.33	0.57
2:B:353:GLN:CD	3:C:1022:PRO:HD3	2.29	0.57
5:H:52:CYS:C	5:H:54:THR:H	2.12	0.57
6:I:514:LEU:HD21	6:I:597:LEU:HD21	1.86	0.57
6:J:298:PHE:CZ	6:K:416:ARG:HA	2.35	0.57
5:L:27:ARG:CZ	5:L:28:THR:H	2.16	0.57
5:M:45:ARG:N	6:O:400:ALA:HA	2.19	0.57
5:M:202:ALA:HB1	5:M:250:HIS:HB2	1.85	0.57
6:O:281:PRO:CD	6:Q:622:GLU:OE1	2.52	0.57
6:O:293:SER:HB3	6:O:463:LEU:HD11	1.86	0.57
6:P:298:PHE:CB	6:Q:419:MET:H	2.13	0.57
6:Q:370:VAL:O	6:Q:443:PHE:HA	2.05	0.57
6:U:30:ALA:CB	6:V:610:THR:CA	2.81	0.57
6:U:283:SER:HA	6:W:529:SER:N	2.19	0.57
6:V:161:LYS:HG3	6:W:533:ASP:OD1	1.99	0.57
6:I:253:VAL:HG13	6:K:36:LEU:HB3	1.76	0.57
6:I:298:PHE:CD2	6:J:407:LEU:O	2.57	0.57
6:J:298:PHE:CB	6:K:419:MET:H	2.13	0.57
6:J:577:VAL:HG12	6:K:471:LEU:CD2	2.35	0.57
6:K:11:TYR:O	6:K:11:TYR:CD1	2.58	0.57
6:K:38:PRO:HA	6:K:41:LEU:HD12	1.86	0.57
6:K:363:ASN:C	6:K:365:ASP:H	2.12	0.57
6:O:388:ALA:O	6:O:391:ILE:HG13	2.04	0.57
6:O:459:LEU:HG	6:P:412:ARG:CG	2.33	0.57
6:O:471:LEU:CD2	6:Q:577:VAL:HG12	2.33	0.57
6:P:11:TYR:CD1	6:P:11:TYR:O	2.57	0.57
6:P:293:SER:HB3	6:P:463:LEU:HD11	1.85	0.57
6:P:485:VAL:O	6:P:489:VAL:HG23	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Q:322:TYR:HB3	6:Q:325:ALA:HB3	1.87	0.57
6:Q:606:THR:HG22	6:Q:609:ARG:CZ	2.35	0.57
5:S:173:THR:HG22	5:S:188:ARG:HA	1.87	0.57
6:U:193:ILE:HG23	6:V:562:TYR:CE1	2.24	0.57
6:U:242:PHE:CB	6:W:36:LEU:CD2	2.22	0.57
6:U:292:ARG:NH2	6:U:293:SER:H	2.02	0.57
6:U:388:ALA:O	6:U:391:ILE:HG13	2.05	0.57
6:X:514:LEU:HD21	6:X:597:LEU:HD21	1.87	0.57
5:G:4:HIS:HB2	6:K:586:VAL:HG11	1.87	0.57
5:G:44:GLY:HA3	6:I:400:ALA:C	2.16	0.57
6:I:30:ALA:CB	6:J:610:THR:CA	2.81	0.57
6:J:456:ASN:CB	6:K:412:ARG:HG3	2.31	0.57
6:J:627:ARG:CG	6:K:272:ASP:OD1	2.49	0.57
6:K:388:ALA:O	6:K:391:ILE:HG13	2.05	0.57
6:K:606:THR:HG22	6:K:609:ARG:CZ	2.34	0.57
5:M:159:PRO:HB3	5:M:258:ALA:HA	1.85	0.57
6:O:242:PHE:HB3	6:Q:36:LEU:CG	2.27	0.57
6:O:253:VAL:CG1	6:Q:36:LEU:O	2.53	0.57
6:O:411:VAL:HG22	6:Q:333:PRO:CB	2.35	0.57
6:O:418:ASN:OD1	6:Q:298:PHE:C	2.46	0.57
6:O:537:SER:OG	6:Q:165:THR:O	2.22	0.57
6:P:165:THR:O	6:Q:537:SER:CB	2.52	0.57
6:Q:11:TYR:O	6:Q:11:TYR:CD1	2.57	0.57
5:S:5:MET:HG3	6:W:494:THR:CG2	2.35	0.57
6:U:514:LEU:HD21	6:U:597:LEU:HD21	1.86	0.57
6:U:537:SER:OG	6:W:165:THR:O	2.22	0.57
6:V:11:TYR:O	6:V:11:TYR:CD1	2.57	0.57
6:X:292:ARG:NH2	6:X:293:SER:H	2.01	0.57
6:X:370:VAL:O	6:X:443:PHE:HA	2.04	0.57
3:C:737:ARG:HA	3:C:737:ARG:HE	1.69	0.57
6:J:409:ILE:O	6:J:414:GLN:OE1	2.23	0.57
5:L:194:LEU:CB	6:Q:447:SER:OG	2.53	0.57
6:P:577:VAL:HG12	6:Q:471:LEU:CD2	2.35	0.57
5:R:202:ALA:HB1	5:R:250:HIS:HB2	1.85	0.57
6:U:529:SER:H	6:V:283:SER:N	2.03	0.57
6:U:622:GLU:HB2	6:V:280:LEU:HD12	1.74	0.57
6:V:381:PRO:HA	6:V:438:TYR:OH	2.04	0.57
6:W:378:THR:HB	6:W:391:ILE:O	2.05	0.57
1:A:934:ASN:HB3	1:A:956:TYR:CE1	2.40	0.57
1:A:1139:PRO:HA	1:A:1152:ASP:O	2.05	0.57
1:A:1258:MET:HA	1:A:1265:ALA:HB1	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:320:ASP:HB2	2:B:328:ARG:O	2.05	0.57
2:B:1213:ALA:CA	3:C:552:ASP:OD1	2.29	0.57
3:C:117:TYR:HB2	3:C:132:LEU:HD23	1.85	0.57
3:C:242:ARG:NH2	3:C:1146:LEU:HB2	2.20	0.57
3:C:1086:HIS:NE2	3:C:1116:PRO:HB3	2.20	0.57
4:E:26:LEU:HD22	4:E:71:LEU:HD13	1.86	0.57
4:E:271:SER:O	4:E:274:TRP:CD1	2.58	0.57
6:I:281:PRO:CD	6:K:622:GLU:OE1	2.53	0.57
6:I:548:LYS:HE3	6:K:644:LEU:HA	1.82	0.57
5:L:158:LEU:HG	5:L:160:ILE:HG12	1.87	0.57
5:M:4:HIS:HB2	6:Q:586:VAL:HG11	1.87	0.57
5:N:158:LEU:HG	5:N:160:ILE:HG12	1.87	0.57
6:O:299:ILE:HD11	6:P:419:MET:HE1	1.78	0.57
6:P:66:ASP:CG	6:Q:232:ALA:HB1	1.98	0.57
6:Q:485:VAL:O	6:Q:489:VAL:HG23	2.04	0.57
6:Q:534:SER:O	6:Q:537:SER:OG	2.22	0.57
5:T:29:ARG:HH11	5:T:32:THR:HA	1.70	0.57
6:U:66:ASP:OD1	6:V:232:ALA:HB1	1.86	0.57
6:U:84:LYS:HZ1	6:W:44:THR:HG22	1.70	0.57
6:U:165:THR:CB	6:V:534:SER:HB2	2.30	0.57
6:U:235:LEU:CD1	6:W:72:SER:OG	2.53	0.57
6:U:242:PHE:HZ	6:W:82:PHE:HE2	1.50	0.57
6:U:295:ARG:NH2	6:V:354:SER:HB3	2.09	0.57
6:V:295:ARG:HH11	6:V:298:PHE:CB	2.18	0.57
6:X:11:TYR:CD1	6:X:11:TYR:O	2.57	0.57
6:X:322:TYR:HB3	6:X:325:ALA:HB3	1.87	0.57
5:Y:173:THR:HG22	5:Y:188:ARG:HA	1.87	0.57
1:A:40:HIS:HA	1:A:44:TYR:HE1	1.69	0.56
1:A:177:TYR:O	1:A:197:HIS:HB3	2.05	0.56
2:B:1207:ILE:HD12	2:B:1208:MET:HG3	1.86	0.56
5:F:29:ARG:HH11	5:F:32:THR:HA	1.70	0.56
5:G:202:ALA:HB1	5:G:250:HIS:HB2	1.86	0.56
6:I:36:LEU:HD11	6:J:242:PHE:CE2	2.39	0.56
6:I:298:PHE:HD2	6:J:407:LEU:O	1.87	0.56
6:I:388:ALA:O	6:I:391:ILE:HG13	2.04	0.56
6:J:29:THR:OG1	6:K:609:ARG:CG	2.51	0.56
5:L:173:THR:HG22	5:L:188:ARG:HA	1.87	0.56
6:P:154:ARG:CD	6:Q:247:SER:C	2.78	0.56
6:P:514:LEU:HD21	6:P:597:LEU:HD21	1.87	0.56
6:Q:351:LEU:HD21	6:Q:460:MET:HE1	1.87	0.56
5:T:65:ILE:HA	5:T:68:SER:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:41:LEU:HD22	6:V:242:PHE:CD2	2.38	0.56
6:U:298:PHE:CD1	6:V:417:PHE:C	2.65	0.56
6:U:412:ARG:NE	6:W:459:LEU:CA	2.48	0.56
6:U:459:LEU:CD2	6:V:412:ARG:HH22	1.83	0.56
6:V:457:PRO:C	6:W:412:ARG:CD	2.49	0.56
6:X:388:ALA:O	6:X:391:ILE:HG13	2.05	0.56
1:A:496:PHE:O	1:A:499:SER:HB2	2.05	0.56
2:B:206:LEU:HA	2:B:243:ILE:HG22	1.87	0.56
2:B:436:LEU:O	2:B:438:PRO:HD3	2.05	0.56
2:B:952:PRO:CB	4:D:35:ARG:NH2	2.57	0.56
3:C:1064:TRP:HZ3	3:C:1100:LEU:HB3	1.63	0.56
4:D:359:TYR:HA	4:D:362:TYR:CD1	2.40	0.56
6:I:38:PRO:HA	6:I:41:LEU:HD12	1.87	0.56
6:I:82:PHE:CE2	6:J:242:PHE:CE1	2.90	0.56
6:O:16:ASP:N	6:O:222:ASN:HB3	2.20	0.56
6:Q:38:PRO:HA	6:Q:41:LEU:HD12	1.86	0.56
5:R:159:PRO:HB3	5:R:258:ALA:HA	1.86	0.56
5:T:158:LEU:HG	5:T:160:ILE:HG12	1.88	0.56
6:U:370:VAL:O	6:U:443:PHE:HA	2.04	0.56
6:U:381:PRO:HA	6:U:438:TYR:OH	2.04	0.56
6:U:482:ASP:OD1	6:W:530:ARG:CZ	2.53	0.56
2:B:383:ALA:C	2:B:384:MET:CG	2.76	0.56
2:B:1213:ALA:O	3:C:552:ASP:CB	2.53	0.56
3:C:435:SER:C	4:E:48:THR:HG21	2.30	0.56
3:C:1064:TRP:CZ3	3:C:1100:LEU:HD13	2.40	0.56
4:E:241:LEU:HA	4:E:360:THR:OG1	2.04	0.56
6:I:232:ALA:HB1	6:K:66:ASP:OD1	1.94	0.56
6:J:295:ARG:NH2	6:K:354:SER:HB3	2.13	0.56
6:J:568:ARG:O	6:J:571:ARG:HB2	2.06	0.56
6:K:485:VAL:O	6:K:489:VAL:HG23	2.05	0.56
5:L:65:ILE:HA	5:L:68:SER:HB2	1.88	0.56
6:O:11:TYR:CD1	6:O:11:TYR:O	2.58	0.56
6:O:32:PRO:C	6:P:613:LEU:CD2	2.65	0.56
6:O:36:LEU:HD11	6:P:242:PHE:CE2	2.40	0.56
6:O:169:MET:H	6:P:537:SER:HB2	1.69	0.56
6:O:322:TYR:HB3	6:O:325:ALA:HB3	1.87	0.56
6:O:370:VAL:O	6:O:443:PHE:HA	2.05	0.56
6:O:381:PRO:HA	6:O:438:TYR:OH	2.05	0.56
6:P:298:PHE:HE1	6:Q:416:ARG:HB3	1.68	0.56
5:S:158:LEU:HG	5:S:160:ILE:HG12	1.87	0.56
5:T:4:HIS:HB3	6:U:586:VAL:CG2	2.08	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:36:LEU:HD11	6:V:242:PHE:CE2	2.40	0.56
6:U:641:ILE:HG12	6:V:545:VAL:HG22	1.87	0.56
6:V:388:ALA:O	6:V:391:ILE:HG13	2.04	0.56
6:V:456:ASN:CB	6:W:412:ARG:HG3	2.31	0.56
6:X:408:ALA:HA	6:X:416:ARG:O	2.05	0.56
1:A:221:ALA:HB1	2:B:671:PRO:HG2	1.86	0.56
2:B:409:MET:HE2	2:B:443:PRO:HB2	1.73	0.56
2:B:707:PHE:CA	2:B:710:ARG:HH11	2.19	0.56
2:B:880:LEU:HD21	4:D:28:GLU:O	2.06	0.56
3:C:714:SER:C	3:C:716:ASN:H	2.11	0.56
3:C:815:PRO:O	3:C:819:VAL:HG23	2.05	0.56
5:H:45:ARG:N	6:J:400:ALA:HA	2.17	0.56
6:I:322:TYR:HB3	6:I:325:ALA:HB3	1.87	0.56
6:I:630:LEU:HD11	6:J:275:GLU:HG3	1.78	0.56
6:I:641:ILE:HG13	6:J:545:VAL:HG11	0.57	0.56
5:M:173:THR:HB	5:M:186:LEU:HB3	1.88	0.56
6:O:121:ALA:HB1	6:P:87:PHE:HB3	1.86	0.56
6:O:283:SER:CB	6:Q:529:SER:N	2.66	0.56
6:O:412:ARG:HA	6:Q:456:ASN:ND2	1.71	0.56
6:O:457:PRO:C	6:P:412:ARG:CD	2.68	0.56
6:O:627:ARG:CG	6:P:272:ASP:OD1	2.51	0.56
6:P:30:ALA:CB	6:Q:610:THR:CB	2.80	0.56
6:P:144:ASN:CA	6:W:100:LYS:HZ1	2.06	0.56
6:P:568:ARG:O	6:P:571:ARG:HB2	2.06	0.56
6:P:622:GLU:HG2	6:Q:280:LEU:CA	2.22	0.56
6:P:625:ARG:HH12	6:Q:277:ASP:H	1.53	0.56
6:U:293:SER:HB3	6:U:463:LEU:HD11	1.86	0.56
6:V:322:TYR:HB3	6:V:325:ALA:HB3	1.87	0.56
1:A:1093:ASN:O	1:A:1095:GLU:HG3	2.05	0.56
2:B:882:PRO:HG2	2:B:962:GLN:HE22	1.07	0.56
6:I:147:ARG:CG	6:Q:100:LYS:HZ3	2.15	0.56
6:I:194:LEU:CA	6:J:562:TYR:CG	2.88	0.56
6:I:253:VAL:CG1	6:K:36:LEU:O	2.53	0.56
6:I:529:SER:C	6:J:472:ARG:CD	2.64	0.56
6:J:630:LEU:HD11	6:K:275:GLU:CG	2.29	0.56
5:L:176:LEU:HB3	5:L:178:ASP:OD1	2.06	0.56
5:M:65:ILE:HA	5:M:68:SER:HB2	1.88	0.56
6:O:194:LEU:CA	6:P:562:TYR:CG	2.88	0.56
6:O:280:LEU:HA	6:Q:622:GLU:CB	2.36	0.56
6:Q:363:ASN:C	6:Q:365:ASP:H	2.12	0.56
6:U:298:PHE:HD2	6:V:407:LEU:O	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:411:VAL:HG22	6:W:333:PRO:CB	2.34	0.56
1:A:329:THR:O	1:A:333:VAL:HG23	2.05	0.56
2:B:954:PRO:CG	4:D:39:SER:C	2.76	0.56
3:C:367:ARG:NH1	3:C:1175:PRO:HA	2.21	0.56
4:E:129:VAL:O	4:E:132:LEU:HG	2.06	0.56
6:I:161:LYS:CD	6:J:533:ASP:CG	2.59	0.56
6:I:165:THR:O	6:J:537:SER:HB2	2.04	0.56
6:I:568:ARG:O	6:I:571:ARG:HB2	2.06	0.56
6:J:193:ILE:C	6:K:562:TYR:CD1	2.46	0.56
6:J:529:SER:N	6:K:283:SER:HA	2.18	0.56
6:K:568:ARG:O	6:K:571:ARG:HB2	2.06	0.56
6:P:622:GLU:HG2	6:Q:281:PRO:HD3	1.88	0.56
6:Q:378:THR:HB	6:Q:391:ILE:O	2.05	0.56
6:U:538:ALA:HA	6:W:168:THR:HB	1.88	0.56
6:X:568:ARG:O	6:X:571:ARG:HB2	2.05	0.56
5:Y:65:ILE:HA	5:Y:68:SER:HB2	1.88	0.56
1:A:472:ARG:CZ	1:A:651:ASN:HD22	2.19	0.56
1:A:688:ILE:O	1:A:692:VAL:HG23	2.06	0.56
2:B:378:GLY:O	3:C:798:VAL:HG13	1.97	0.56
2:B:445:PHE:CE2	4:D:195:GLN:NE2	2.74	0.56
2:B:874:CYS:HB3	2:B:893:VAL:HG21	1.88	0.56
3:C:377:ILE:HG23	3:C:381:VAL:CA	2.34	0.56
5:G:65:ILE:HA	5:G:68:SER:HB2	1.86	0.56
5:G:173:THR:HG22	5:G:188:ARG:HA	1.88	0.56
6:I:87:PHE:CB	6:K:121:ALA:HB1	2.36	0.56
6:I:529:SER:H	6:J:283:SER:N	2.03	0.56
6:I:630:LEU:HD11	6:J:598:SER:HB3	1.86	0.56
6:K:322:TYR:HB3	6:K:325:ALA:HB3	1.87	0.56
6:O:38:PRO:HA	6:O:41:LEU:HD12	1.88	0.56
6:O:66:ASP:OD1	6:P:232:ALA:HB1	1.86	0.56
6:O:235:LEU:CD1	6:Q:72:SER:OG	2.53	0.56
6:O:298:PHE:CD2	6:P:407:LEU:O	2.58	0.56
6:O:458:THR:H	6:P:412:ARG:HD3	1.63	0.56
6:O:529:SER:H	6:P:283:SER:N	2.04	0.56
6:O:630:LEU:HD11	6:P:275:GLU:HG3	1.77	0.56
5:R:29:ARG:HH11	5:R:32:THR:HA	1.71	0.56
5:R:158:LEU:HG	5:R:160:ILE:HG12	1.87	0.56
5:R:176:LEU:HB3	5:R:178:ASP:OD1	2.06	0.56
5:T:202:ALA:HB1	5:T:250:HIS:HB2	1.87	0.56
6:V:409:ILE:O	6:V:414:GLN:OE1	2.23	0.56
6:W:411:VAL:HB	6:W:412:ARG:HH21	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:259:ALA:O	1:A:263:VAL:HG12	2.06	0.56
1:A:574:THR:HB	1:A:611:THR:HG23	1.88	0.56
2:B:568:PHE:HA	2:B:819:VAL:HG11	1.87	0.56
2:B:959:ARG:HH22	4:D:40:ARG:HA	1.69	0.56
5:G:173:THR:HB	5:G:186:LEU:HB3	1.88	0.56
5:G:194:LEU:HD21	6:I:447:SER:HB2	1.80	0.56
5:H:65:ILE:HA	5:H:68:SER:HB2	1.88	0.56
5:H:159:PRO:HB3	5:H:258:ALA:HA	1.87	0.56
6:I:370:VAL:O	6:I:443:PHE:HA	2.05	0.56
6:J:333:PRO:CA	6:K:411:VAL:HG22	2.31	0.56
5:M:29:ARG:HH11	5:M:32:THR:HA	1.70	0.56
6:O:641:ILE:HG13	6:P:545:VAL:HG11	0.56	0.56
6:P:298:PHE:HZ	6:Q:416:ARG:C	1.61	0.56
6:P:370:VAL:O	6:P:443:PHE:HA	2.05	0.56
5:S:29:ARG:HH11	5:S:32:THR:HA	1.71	0.56
5:T:4:HIS:CG	6:U:586:VAL:CG1	2.84	0.56
6:U:283:SER:CB	6:W:529:SER:N	2.65	0.56
6:U:618:THR:HB	6:V:281:PRO:CB	2.36	0.56
6:V:154:ARG:CD	6:W:247:SER:C	2.78	0.56
6:W:292:ARG:NH2	6:W:293:SER:H	2.02	0.56
6:X:378:THR:HB	6:X:391:ILE:O	2.06	0.56
1:A:48:ASP:HA	1:A:56:ALA:H	1.70	0.56
2:B:400:GLU:CG	2:B:401:THR:N	2.69	0.56
2:B:865:VAL:HG13	2:B:868:ARG:NH2	2.20	0.56
3:C:715:VAL:CG2	3:C:726:ARG:HE	1.87	0.56
4:E:400:THR:CB	6:U:53:THR:HG23	2.35	0.56
5:F:130:PHE:CE1	6:K:368:THR:HG21	2.41	0.56
5:F:173:THR:HG22	5:F:188:ARG:HA	1.88	0.56
6:I:272:ASP:OD1	6:K:627:ARG:CG	2.50	0.56
6:I:293:SER:HB3	6:I:463:LEU:HD11	1.87	0.56
6:I:416:ARG:C	6:K:298:PHE:HE2	1.87	0.56
6:I:533:ASP:OD2	6:K:161:LYS:HE2	1.99	0.56
6:J:16:ASP:N	6:J:222:ASN:HB3	2.21	0.56
6:J:36:LEU:CD1	6:K:242:PHE:CE1	2.88	0.56
5:M:158:LEU:HG	5:M:160:ILE:HG12	1.87	0.56
6:O:622:GLU:C	6:P:280:LEU:CD1	2.79	0.56
6:P:147:ARG:HH21	6:W:98:ALA:HA	1.71	0.56
6:P:322:TYR:HB3	6:P:325:ALA:HB3	1.87	0.56
5:S:138:SER:C	5:S:195:LEU:HD22	2.31	0.56
5:T:103:GLU:O	5:T:112:ALA:HA	2.06	0.56
6:U:568:ARG:O	6:U:571:ARG:HB2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:144:ASN:HD22	6:V:147:ARG:CZ	2.19	0.56
6:V:169:MET:N	6:W:541:SER:OG	2.36	0.56
6:W:568:ARG:O	6:W:571:ARG:HB2	2.05	0.56
1:A:422:ALA:HA	1:A:713:VAL:HA	1.88	0.56
1:A:1137:ASN:HD22	1:A:1154:ARG:HB3	1.71	0.56
3:C:601:ILE:HD12	3:C:607:HIS:HA	1.86	0.56
3:C:1064:TRP:HH2	3:C:1100:LEU:CD1	2.18	0.56
3:C:1167:LEU:O	3:C:1170:PRO:HD3	2.05	0.56
4:D:183:ALA:O	4:D:187:GLN:NE2	2.39	0.56
4:E:332:PRO:C	6:U:54:SER:CB	2.76	0.56
5:F:173:THR:HB	5:F:186:LEU:HB3	1.88	0.56
5:H:158:LEU:HG	5:H:160:ILE:HG12	1.87	0.56
6:I:32:PRO:C	6:J:613:LEU:CD2	2.65	0.56
6:I:412:ARG:NE	6:K:459:LEU:CA	2.48	0.56
5:M:5:MET:HG3	6:Q:494:THR:CG2	2.36	0.56
5:N:173:THR:HG22	5:N:188:ARG:HA	1.88	0.56
6:O:161:LYS:HG2	6:P:533:ASP:CG	2.30	0.56
6:O:165:THR:C	6:P:537:SER:OG	2.49	0.56
6:O:351:LEU:HD21	6:O:460:MET:HE1	1.88	0.56
6:O:482:ASP:OD1	6:Q:530:ARG:CZ	2.53	0.56
6:O:630:LEU:HD11	6:P:598:SER:HB3	1.87	0.56
6:Q:16:ASP:N	6:Q:222:ASN:HB3	2.21	0.56
5:R:173:THR:HG22	5:R:188:ARG:HA	1.87	0.56
6:U:36:LEU:CG	6:V:242:PHE:HB3	2.26	0.56
6:U:168:THR:O	6:V:538:ALA:HA	2.06	0.56
6:V:16:ASP:N	6:V:222:ASN:HB3	2.21	0.56
5:Y:29:ARG:HH11	5:Y:32:THR:HA	1.71	0.56
1:A:406:ASN:ND2	6:J:102:GLY:HA3	2.21	0.55
1:A:740:VAL:HG21	1:A:770:ARG:HB3	1.87	0.55
2:B:234:PRO:HG3	2:B:341:ALA:HB1	1.87	0.55
3:C:1016:ARG:HH21	3:C:1016:ARG:HG2	1.71	0.55
4:D:399:GLN:HG2	4:D:402:ALA:HB3	1.88	0.55
5:F:103:GLU:O	5:F:112:ALA:HA	2.07	0.55
5:F:191:LYS:C	6:K:364:PRO:HB3	2.28	0.55
6:I:618:THR:HB	6:J:281:PRO:CB	2.36	0.55
5:M:173:THR:HG22	5:M:188:ARG:HA	1.88	0.55
6:O:36:LEU:HD11	6:P:242:PHE:CZ	2.41	0.55
6:O:618:THR:HB	6:P:281:PRO:CB	2.36	0.55
5:S:4:HIS:HB2	6:W:586:VAL:HG11	1.86	0.55
5:T:5:MET:HG3	6:U:494:THR:HG23	1.88	0.55
6:U:84:LYS:HD3	6:W:44:THR:HG1	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:80:GLU:O	6:V:84:LYS:HG2	2.06	0.55
6:W:219:LYS:HG3	6:W:220:PRO:HD2	1.88	0.55
1:A:542:ILE:HB	1:A:545:LEU:O	2.07	0.55
1:A:1224:VAL:HB	1:A:1228:ARG:NH2	2.20	0.55
3:C:291:LEU:O	3:C:890:GLN:HA	2.06	0.55
3:C:455:GLN:HG3	3:C:666:ALA:HB1	1.88	0.55
4:E:161:VAL:HB	4:E:263:GLN:HB2	1.87	0.55
5:F:194:LEU:CB	6:K:447:SER:OG	2.53	0.55
6:I:235:LEU:CD1	6:K:72:SER:OG	2.54	0.55
6:I:351:LEU:HD12	6:I:463:LEU:O	2.06	0.55
6:I:378:THR:HB	6:I:391:ILE:O	2.05	0.55
6:I:411:VAL:HG22	6:K:333:PRO:CB	2.36	0.55
6:I:482:ASP:OD1	6:K:530:ARG:CZ	2.53	0.55
6:J:644:LEU:HD23	6:K:548:LYS:CE	2.20	0.55
6:K:411:VAL:HB	6:K:412:ARG:HH21	1.72	0.55
5:L:130:PHE:CE1	6:Q:368:THR:HG21	2.41	0.55
5:M:176:LEU:HB3	5:M:178:ASP:OD1	2.07	0.55
6:O:144:ASN:HD22	6:O:147:ARG:CZ	2.19	0.55
6:O:284:VAL:HG21	6:Q:619:ASP:N	2.22	0.55
6:O:622:GLU:OE1	6:P:281:PRO:CD	2.54	0.55
6:P:351:LEU:HD21	6:P:460:MET:HE1	1.88	0.55
5:T:37:HIS:HD2	5:T:66:GLN:HB3	1.70	0.55
5:T:173:THR:HG22	5:T:188:ARG:HA	1.87	0.55
6:U:253:VAL:CG1	6:W:36:LEU:O	2.53	0.55
6:U:630:LEU:HD11	6:V:598:SER:HB3	1.87	0.55
6:V:351:LEU:HD21	6:V:460:MET:HE1	1.88	0.55
6:V:378:THR:HB	6:V:391:ILE:O	2.06	0.55
6:W:322:TYR:HB3	6:W:325:ALA:HB3	1.87	0.55
6:X:494:THR:HG22	5:Y:4:HIS:C	2.30	0.55
2:B:1213:ALA:C	3:C:552:ASP:HB3	2.30	0.55
4:D:390:ASN:N	6:P:55:VAL:HG23	2.21	0.55
4:D:391:ALA:N	6:P:49:ARG:HH22	2.03	0.55
5:F:155:VAL:O	5:F:259:HIS:HA	2.07	0.55
5:G:155:VAL:O	5:G:259:HIS:HA	2.06	0.55
6:I:193:ILE:O	6:I:194:LEU:C	2.46	0.55
6:I:253:VAL:HG12	6:K:36:LEU:C	2.31	0.55
6:I:381:PRO:HA	6:I:438:TYR:OH	2.05	0.55
6:K:370:VAL:O	6:K:443:PHE:HA	2.06	0.55
6:K:378:THR:HB	6:K:391:ILE:O	2.06	0.55
5:N:138:SER:C	5:N:195:LEU:HD22	2.32	0.55
5:N:173:THR:HB	5:N:186:LEU:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:87:PHE:CB	6:Q:121:ALA:HB1	2.35	0.55
6:O:283:SER:HA	6:Q:529:SER:N	2.18	0.55
6:O:283:SER:N	6:Q:529:SER:H	2.04	0.55
6:P:82:PHE:CZ	6:Q:242:PHE:HE1	2.17	0.55
6:V:459:LEU:HD21	6:W:409:ILE:HG22	1.77	0.55
2:B:910:LYS:HZ3	2:B:919:LEU:H	1.55	0.55
2:B:954:PRO:CA	4:D:39:SER:OG	2.54	0.55
3:C:1103:TRP:CH2	3:C:1115:VAL:HG22	2.42	0.55
4:E:1:MET:O	4:E:132:LEU:HD13	2.06	0.55
5:F:158:LEU:HG	5:F:160:ILE:HG12	1.87	0.55
5:H:138:SER:C	5:H:195:LEU:HD22	2.32	0.55
6:I:29:THR:HA	6:J:609:ARG:HE	1.64	0.55
6:I:534:SER:HB2	6:K:165:THR:CB	2.27	0.55
6:K:16:ASP:N	6:K:222:ASN:HB3	2.22	0.55
5:L:202:ALA:HB1	5:L:250:HIS:HB2	1.87	0.55
5:M:138:SER:C	5:M:195:LEU:HD22	2.32	0.55
6:O:34:ILE:C	6:P:256:SER:OG	2.42	0.55
6:O:161:LYS:C	6:P:534:SER:HG	2.05	0.55
6:Q:381:PRO:HA	6:Q:438:TYR:OH	2.06	0.55
5:R:194:LEU:CB	6:W:447:SER:OG	2.53	0.55
5:S:202:ALA:HB1	5:S:250:HIS:HB2	1.86	0.55
6:U:161:LYS:HZ3	6:V:533:ASP:C	2.13	0.55
6:U:378:THR:HB	6:U:391:ILE:O	2.05	0.55
6:U:637:PHE:HE1	6:V:545:VAL:HB	1.72	0.55
2:B:201:CYS:SG	2:B:395:THR:HG22	2.47	0.55
2:B:427:LEU:HA	2:B:686:ARG:HH12	1.72	0.55
4:E:288:GLN:HA	4:E:291:THR:OG1	2.07	0.55
5:G:29:ARG:HH11	5:G:32:THR:HA	1.72	0.55
5:H:29:ARG:HH11	5:H:32:THR:HA	1.71	0.55
6:I:242:PHE:HB3	6:K:36:LEU:CG	2.27	0.55
6:I:630:LEU:HD11	6:J:275:GLU:CG	2.27	0.55
6:J:298:PHE:C	6:K:418:ASN:OD1	2.49	0.55
6:K:144:ASN:HD22	6:K:147:ARG:CZ	2.20	0.55
6:K:351:LEU:HD21	6:K:460:MET:HE1	1.88	0.55
5:N:29:ARG:HH11	5:N:32:THR:HA	1.70	0.55
6:O:36:LEU:CD1	6:P:242:PHE:CG	2.86	0.55
6:O:194:LEU:N	6:P:562:TYR:CE1	2.66	0.55
6:O:219:LYS:HG3	6:O:220:PRO:HD2	1.89	0.55
6:O:232:ALA:HB1	6:Q:66:ASP:HB3	1.75	0.55
6:O:378:THR:HB	6:O:391:ILE:O	2.06	0.55
6:O:407:LEU:HB3	6:O:418:ASN:HB3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:411:VAL:HG22	6:Q:333:PRO:CA	2.34	0.55
6:O:562:TYR:HE1	6:Q:193:ILE:HA	1.54	0.55
5:T:155:VAL:O	5:T:259:HIS:HA	2.06	0.55
5:T:176:LEU:HB3	5:T:178:ASP:OD1	2.06	0.55
6:U:253:VAL:HG12	6:W:36:LEU:C	2.31	0.55
6:U:284:VAL:HG21	6:W:619:ASP:N	2.22	0.55
6:U:409:ILE:CG2	6:W:459:LEU:CD2	2.74	0.55
6:V:578:SER:O	6:W:289:LEU:O	2.25	0.55
5:Y:155:VAL:O	5:Y:259:HIS:HA	2.07	0.55
2:B:1043:GLY:N	2:B:1072:THR:HG23	2.22	0.55
3:C:384:MET:HB3	3:C:1197:TYR:OH	2.04	0.55
3:C:715:VAL:H	3:C:726:ARG:HH22	1.48	0.55
5:G:5:MET:HG3	6:K:494:THR:CG2	2.36	0.55
5:G:176:LEU:HB3	5:G:178:ASP:OD1	2.06	0.55
6:I:279:PRO:C	6:K:622:GLU:HG2	2.32	0.55
6:I:283:SER:CA	6:K:529:SER:N	2.69	0.55
6:I:545:VAL:HB	6:K:637:PHE:CE1	2.42	0.55
5:L:37:HIS:HD2	5:L:66:GLN:HB3	1.70	0.55
6:O:568:ARG:O	6:O:571:ARG:HB2	2.06	0.55
6:O:641:ILE:HG12	6:P:545:VAL:HG22	1.87	0.55
6:P:298:PHE:C	6:Q:418:ASN:OD1	2.49	0.55
6:P:644:LEU:HA	6:Q:548:LYS:HE3	1.86	0.55
5:T:4:HIS:HB2	6:U:586:VAL:CG1	2.37	0.55
6:U:641:ILE:HG13	6:V:545:VAL:HG11	0.57	0.55
6:V:568:ARG:O	6:V:571:ARG:HB2	2.06	0.55
1:A:152:THR:CG2	3:C:598:PRO:HB2	2.34	0.55
1:A:928:ARG:HD2	1:A:930:TRP:HE1	1.70	0.55
3:C:689:VAL:O	3:C:692:THR:HG23	2.07	0.55
4:D:79:PHE:CE1	4:D:95:PRO:HA	2.41	0.55
5:F:130:PHE:CG	6:K:446:PRO:HB2	2.42	0.55
5:G:148:CYS:SG	5:G:271:HIS:HB2	2.47	0.55
6:I:165:THR:C	6:J:537:SER:OG	2.50	0.55
6:I:280:LEU:HA	6:K:622:GLU:CB	2.36	0.55
6:J:378:THR:HB	6:J:391:ILE:O	2.06	0.55
5:M:191:LYS:C	6:O:364:PRO:HB3	2.29	0.55
5:N:4:HIS:HB2	6:O:586:VAL:CG1	2.36	0.55
5:N:45:ARG:N	6:P:400:ALA:HA	2.18	0.55
6:P:43:PRO:HA	6:Q:84:LYS:HE2	1.89	0.55
6:P:381:PRO:HA	6:P:438:TYR:OH	2.06	0.55
6:Q:568:ARG:O	6:Q:571:ARG:HB2	2.06	0.55
5:S:6:ILE:H	5:S:6:ILE:HD12	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:138:SER:C	5:T:195:LEU:HD22	2.31	0.55
5:T:173:THR:HB	5:T:186:LEU:HB3	1.89	0.55
6:U:38:PRO:HA	6:U:41:LEU:HD12	1.88	0.55
6:U:144:ASN:HD22	6:U:147:ARG:CZ	2.19	0.55
6:X:586:VAL:O	6:X:586:VAL:HG13	2.06	0.55
1:A:829:ALA:H	1:A:850:LEU:HG	1.72	0.55
1:A:1155:ILE:HB	1:A:1190:ARG:HB2	1.89	0.55
2:B:413:PRO:O	2:B:417:VAL:HG23	2.06	0.55
2:B:434:ILE:CG1	3:C:616:SER:OG	2.55	0.55
2:B:448:SER:O	2:B:452:ARG:HG2	2.05	0.55
2:B:868:ARG:HG3	2:B:879:PHE:CE1	2.41	0.55
3:C:794:GLY:O	3:C:796:ALA:N	2.39	0.55
6:I:16:ASP:N	6:I:222:ASN:HB3	2.21	0.55
6:I:246:THR:CB	6:K:154:ARG:NH1	2.58	0.55
6:I:281:PRO:HD3	6:K:622:GLU:HG2	1.85	0.55
6:I:351:LEU:HD21	6:I:460:MET:HE1	1.88	0.55
6:I:457:PRO:C	6:J:412:ARG:CD	2.69	0.55
6:J:514:LEU:HD21	6:J:597:LEU:HD21	1.87	0.55
6:J:625:ARG:HH12	6:K:277:ASP:H	1.55	0.55
6:K:351:LEU:HD12	6:K:463:LEU:O	2.07	0.55
5:L:130:PHE:CG	6:Q:446:PRO:HB2	2.41	0.55
6:O:43:PRO:HA	6:P:84:LYS:HE2	1.88	0.55
6:O:253:VAL:HG12	6:Q:36:LEU:C	2.31	0.55
6:P:618:THR:C	6:Q:281:PRO:HG3	2.32	0.55
5:R:138:SER:C	5:R:195:LEU:HD22	2.31	0.55
5:R:173:THR:HB	5:R:186:LEU:HB3	1.89	0.55
5:S:128:LEU:HA	5:S:196:LEU:HD22	1.89	0.55
6:U:154:ARG:HH12	6:V:246:THR:HB	1.67	0.55
6:U:165:THR:C	6:V:537:SER:OG	2.50	0.55
6:U:169:MET:H	6:V:537:SER:HB2	1.69	0.55
6:V:30:ALA:CB	6:W:610:THR:CB	2.80	0.55
6:V:298:PHE:C	6:W:418:ASN:OD1	2.49	0.55
1:A:347:GLN:HE22	1:A:381:PHE:HB3	1.71	0.55
1:A:1159:PRO:HA	1:A:1190:ARG:HH12	1.72	0.55
2:B:201:CYS:HB2	2:B:312:ASN:HD21	1.71	0.55
2:B:580:HIS:HD2	2:B:621:TRP:HE1	1.54	0.55
5:F:65:ILE:HA	5:F:68:SER:HB2	1.88	0.55
5:H:37:HIS:HD2	5:H:66:GLN:HB3	1.72	0.55
5:H:192:THR:O	6:J:364:PRO:HB2	2.02	0.55
6:J:299:ILE:HD11	6:K:419:MET:HE1	1.77	0.55
5:N:65:ILE:HA	5:N:68:SER:HB2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Q:219:LYS:HG3	6:Q:220:PRO:HD2	1.89	0.55
5:R:130:PHE:CE1	6:W:368:THR:HG21	2.42	0.55
5:T:128:LEU:HA	5:T:196:LEU:HD22	1.89	0.55
6:U:43:PRO:HA	6:V:84:LYS:HE2	1.89	0.55
6:U:84:LYS:NZ	6:W:44:THR:HG21	1.92	0.55
6:U:219:LYS:HG3	6:U:220:PRO:HD2	1.89	0.55
6:V:622:GLU:HG2	6:W:280:LEU:CA	2.22	0.55
6:X:494:THR:HG23	5:Y:5:MET:CA	2.36	0.55
5:H:155:VAL:O	5:H:259:HIS:HA	2.07	0.55
6:I:326:THR:O	6:I:448:PRO:HA	2.07	0.55
6:I:409:ILE:O	6:I:414:GLN:OE1	2.25	0.55
5:M:37:HIS:HD2	5:M:66:GLN:HB3	1.72	0.55
5:N:155:VAL:O	5:N:259:HIS:HA	2.07	0.55
6:O:84:LYS:HZ1	6:Q:44:THR:HG22	1.70	0.55
6:O:637:PHE:HE1	6:P:545:VAL:HB	1.73	0.55
6:U:87:PHE:CB	6:W:121:ALA:HB1	2.36	0.55
6:U:280:LEU:HA	6:W:622:GLU:CB	2.35	0.55
6:U:283:SER:CA	6:W:529:SER:N	2.69	0.55
6:U:351:LEU:HD21	6:U:460:MET:HE1	1.89	0.55
6:U:622:GLU:C	6:V:280:LEU:CD1	2.80	0.55
6:V:36:LEU:CD1	6:W:242:PHE:CE1	2.88	0.55
2:B:388:MET:HE1	2:B:1179:VAL:HG11	1.88	0.54
3:C:373:ARG:H	3:C:373:ARG:CZ	2.21	0.54
3:C:1011:VAL:HB	3:C:1044:ASP:CG	2.32	0.54
4:D:166:MET:HG2	4:D:210:TRP:CZ2	2.41	0.54
4:E:342:ARG:HD2	4:E:349:ALA:O	2.07	0.54
5:H:103:GLU:O	5:H:112:ALA:HA	2.07	0.54
6:I:284:VAL:HG21	6:K:619:ASP:N	2.22	0.54
6:I:407:LEU:HB3	6:I:418:ASN:HB3	1.89	0.54
6:I:644:LEU:CA	6:J:548:LYS:CE	2.61	0.54
6:J:322:TYR:HB3	6:J:325:ALA:HB3	1.88	0.54
6:J:622:GLU:HG2	6:K:280:LEU:CA	2.21	0.54
6:K:219:LYS:HG3	6:K:220:PRO:HD2	1.88	0.54
5:L:128:LEU:HA	5:L:196:LEU:HD22	1.89	0.54
5:N:5:MET:HG3	6:O:494:THR:HG23	1.88	0.54
6:O:84:LYS:HE2	6:Q:43:PRO:HA	1.89	0.54
6:O:458:THR:HA	6:P:412:ARG:NE	2.10	0.54
6:O:530:ARG:HA	6:P:472:ARG:HG3	1.88	0.54
6:O:545:VAL:HG11	6:Q:641:ILE:HG13	0.55	0.54
6:P:16:ASP:N	6:P:222:ASN:HB3	2.22	0.54
6:V:641:ILE:HD11	6:W:545:VAL:CG2	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:536:ASP:HB3	1:A:541:SER:HB3	1.88	0.54
1:A:927:THR:HA	1:A:1030:THR:OG1	2.07	0.54
2:B:308:ASN:HA	2:B:399:ARG:HH21	1.59	0.54
2:B:960:ALA:O	2:B:964:VAL:HG23	2.07	0.54
3:C:715:VAL:HG23	3:C:726:ARG:HH21	1.68	0.54
5:F:176:LEU:HB3	5:F:178:ASP:OD1	2.07	0.54
5:G:4:HIS:CG	6:K:586:VAL:CB	2.84	0.54
5:H:173:THR:HB	5:H:186:LEU:HB3	1.88	0.54
6:I:471:LEU:HD22	6:K:577:VAL:HG12	1.89	0.54
6:I:622:GLU:OE1	6:J:281:PRO:CD	2.53	0.54
6:J:43:PRO:HA	6:K:84:LYS:HE2	1.89	0.54
5:L:138:SER:C	5:L:195:LEU:HD22	2.32	0.54
5:N:176:LEU:HB3	5:N:178:ASP:OD1	2.07	0.54
6:O:242:PHE:HB3	6:Q:36:LEU:HD21	0.62	0.54
5:R:103:GLU:O	5:R:112:ALA:HA	2.07	0.54
5:R:128:LEU:HA	5:R:196:LEU:HD22	1.89	0.54
5:S:103:GLU:O	5:S:112:ALA:HA	2.07	0.54
5:S:173:THR:HB	5:S:186:LEU:HB3	1.88	0.54
5:T:45:ARG:N	6:V:400:ALA:HA	2.18	0.54
5:T:67:ASP:O	5:T:70:ALA:HB3	2.08	0.54
6:U:16:ASP:N	6:U:222:ASN:HB3	2.22	0.54
6:U:84:LYS:HZ1	6:W:44:THR:CG2	1.89	0.54
6:U:246:THR:CB	6:W:154:ARG:NH1	2.57	0.54
6:U:407:LEU:HB3	6:U:418:ASN:HB3	1.88	0.54
6:W:16:ASP:N	6:W:222:ASN:HB3	2.22	0.54
1:A:155:PRO:HG2	1:A:159:THR:HG22	1.90	0.54
2:B:437:ARG:HE	4:D:173:ALA:CA	2.12	0.54
4:D:215:TRP:CZ2	4:D:279:VAL:HB	2.43	0.54
5:G:158:LEU:HG	5:G:160:ILE:HG12	1.88	0.54
5:H:67:ASP:O	5:H:70:ALA:HB3	2.08	0.54
6:J:530:ARG:H	6:K:472:ARG:HD2	1.60	0.54
6:J:562:TYR:HD1	6:J:562:TYR:H	1.52	0.54
6:J:578:SER:O	6:K:289:LEU:O	2.26	0.54
6:J:593:GLN:HB3	6:J:596:MET:HE3	1.90	0.54
6:K:593:GLN:HB3	6:K:596:MET:HE3	1.89	0.54
5:L:4:HIS:CD2	6:P:586:VAL:HG23	2.28	0.54
6:O:283:SER:CA	6:Q:529:SER:N	2.69	0.54
6:O:529:SER:N	6:P:283:SER:CA	2.71	0.54
6:P:80:GLU:O	6:P:84:LYS:HG2	2.07	0.54
5:T:148:CYS:SG	5:T:271:HIS:HB2	2.48	0.54
6:U:598:SER:HB3	6:W:630:LEU:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:X:351:LEU:HD12	6:X:463:LEU:O	2.07	0.54
1:A:720:PHE:HD1	1:A:786:VAL:HG22	1.72	0.54
1:A:998:LEU:HA	1:A:1001:ILE:HD12	1.89	0.54
1:A:1233:ARG:CZ	1:A:1293:VAL:H	2.20	0.54
2:B:959:ARG:NH1	4:D:40:ARG:CD	2.70	0.54
4:D:58:TYR:CE1	4:D:64:ARG:HD2	2.42	0.54
5:F:37:HIS:HD2	5:F:66:GLN:HB3	1.71	0.54
5:F:202:ALA:HA	5:F:248:ALA:O	2.07	0.54
6:J:30:ALA:HB3	6:K:610:THR:CA	2.31	0.54
6:O:412:ARG:HH22	6:Q:459:LEU:CD2	1.82	0.54
6:P:34:ILE:C	6:Q:256:SER:HG	2.02	0.54
5:S:202:ALA:HA	5:S:248:ALA:O	2.08	0.54
6:U:34:ILE:C	6:V:256:SER:OG	2.42	0.54
6:U:80:GLU:O	6:U:84:LYS:HG2	2.07	0.54
6:U:165:THR:HA	6:V:537:SER:HG	1.72	0.54
6:U:194:LEU:N	6:V:562:TYR:CE1	2.66	0.54
6:U:409:ILE:O	6:U:414:GLN:OE1	2.26	0.54
6:U:412:ARG:NE	6:W:458:THR:HA	2.05	0.54
6:U:459:LEU:HB2	6:V:412:ARG:HE	1.70	0.54
6:V:219:LYS:HG3	6:V:220:PRO:HD2	1.89	0.54
6:W:351:LEU:HD12	6:W:463:LEU:O	2.07	0.54
5:Y:173:THR:HB	5:Y:186:LEU:HB3	1.88	0.54
1:A:455:ALA:HA	1:A:625:ARG:NH2	2.23	0.54
2:B:740:LYS:HD2	2:B:740:LYS:N	2.23	0.54
3:C:684:LEU:HD21	3:C:750:MET:HG3	1.89	0.54
4:D:46:ILE:CG2	4:D:187:GLN:CG	2.84	0.54
4:D:86:SER:OG	4:D:91:THR:HA	2.08	0.54
4:D:388:PRO:HB2	6:P:56:ALA:HB1	1.76	0.54
5:G:138:SER:C	5:G:195:LEU:HD22	2.33	0.54
5:H:128:LEU:HA	5:H:196:LEU:HD22	1.89	0.54
6:I:622:GLU:C	6:J:280:LEU:CD1	2.81	0.54
6:J:528:ALA:CA	6:K:283:SER:CB	2.86	0.54
5:M:155:VAL:O	5:M:259:HIS:HA	2.07	0.54
5:N:148:CYS:SG	5:N:271:HIS:HB2	2.47	0.54
6:O:41:LEU:HD22	6:P:242:PHE:CD2	2.38	0.54
6:O:161:LYS:HZ3	6:P:533:ASP:C	2.15	0.54
6:O:298:PHE:HD2	6:P:407:LEU:O	1.88	0.54
6:Q:351:LEU:HD12	6:Q:463:LEU:O	2.07	0.54
5:S:148:CYS:SG	5:S:271:HIS:HB2	2.47	0.54
6:V:161:LYS:HE3	6:W:533:ASP:CB	2.30	0.54
6:V:622:GLU:HG2	6:W:281:PRO:HD3	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:X:16:ASP:N	6:X:222:ASN:HB3	2.22	0.54
6:X:355:GLY:O	6:X:416:ARG:HA	2.07	0.54
5:Y:103:GLU:O	5:Y:112:ALA:HA	2.08	0.54
5:Y:176:LEU:HB3	5:Y:178:ASP:OD1	2.07	0.54
1:A:359:TYR:CE2	1:A:378:PRO:HA	2.42	0.54
1:A:397:PRO:HA	1:A:747:THR:HG21	1.89	0.54
1:A:814:GLY:HA2	1:A:1025:ILE:HD11	1.90	0.54
1:A:917:LEU:O	1:A:920:ARG:HB2	2.08	0.54
1:A:1207:LEU:HB3	1:A:1221:PHE:HB3	1.89	0.54
2:B:868:ARG:CG	2:B:879:PHE:CD1	2.91	0.54
6:I:168:THR:O	6:J:538:ALA:HA	2.07	0.54
6:J:168:THR:C	6:K:541:SER:OG	2.37	0.54
6:J:637:PHE:CE1	6:K:545:VAL:HB	2.43	0.54
5:M:128:LEU:HA	5:M:196:LEU:HD22	1.89	0.54
5:M:202:ALA:HA	5:M:248:ALA:O	2.08	0.54
6:O:472:ARG:CD	6:Q:529:SER:C	2.57	0.54
6:Q:80:GLU:O	6:Q:84:LYS:HG2	2.08	0.54
6:Q:593:GLN:HB3	6:Q:596:MET:HE3	1.89	0.54
6:U:622:GLU:OE1	6:V:281:PRO:CD	2.54	0.54
6:U:627:ARG:CG	6:V:272:ASP:OD1	2.50	0.54
6:V:36:LEU:CG	6:W:253:VAL:CG1	2.86	0.54
6:V:625:ARG:HH12	6:W:277:ASP:H	1.55	0.54
1:A:480:ARG:HH11	1:A:482:PRO:HB3	1.72	0.54
1:A:1045:ASN:ND2	1:A:1103:THR:HG22	2.22	0.54
2:B:291:LEU:O	2:B:890:GLN:HA	2.07	0.54
5:F:148:CYS:SG	5:F:271:HIS:HB2	2.47	0.54
5:H:5:MET:HG3	6:I:494:THR:HG23	1.88	0.54
6:I:36:LEU:HD11	6:J:242:PHE:CZ	2.43	0.54
6:J:30:ALA:CB	6:K:610:THR:CB	2.79	0.54
6:J:73:PHE:HE1	6:J:135:VAL:H	1.56	0.54
6:O:168:THR:O	6:P:538:ALA:HA	2.08	0.54
6:O:412:ARG:CD	6:Q:457:PRO:C	2.64	0.54
6:O:529:SER:N	6:P:283:SER:CB	2.71	0.54
6:O:545:VAL:HB	6:Q:637:PHE:CE1	2.42	0.54
6:O:619:ASP:N	6:P:284:VAL:HG21	2.23	0.54
6:P:36:LEU:CD1	6:Q:242:PHE:CE1	2.89	0.54
6:P:194:LEU:HA	6:Q:562:TYR:CG	2.43	0.54
6:P:219:LYS:HG3	6:P:220:PRO:HD2	1.89	0.54
6:P:528:ALA:CA	6:Q:283:SER:CB	2.86	0.54
5:R:148:CYS:SG	5:R:271:HIS:HB2	2.48	0.54
5:S:5:MET:HG3	6:W:494:THR:HG23	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:65:ILE:HA	5:S:68:SER:HB2	1.89	0.54
6:U:351:LEU:HD12	6:U:463:LEU:O	2.06	0.54
6:V:456:ASN:HD21	6:V:459:LEU:HG	1.73	0.54
6:V:562:TYR:HD1	6:V:562:TYR:H	1.52	0.54
6:W:80:GLU:O	6:W:84:LYS:HG2	2.07	0.54
6:X:219:LYS:HG3	6:X:220:PRO:HD2	1.89	0.54
5:Y:148:CYS:SG	5:Y:271:HIS:HB2	2.48	0.54
1:A:503:PRO:HB2	1:A:1163:LEU:HD23	1.90	0.54
2:B:1184:LEU:HD12	4:D:51:LEU:HD11	1.90	0.54
3:C:377:ILE:O	3:C:379:GLY:N	2.41	0.54
4:E:147:MET:SD	4:E:156:ILE:HB	2.48	0.54
5:F:4:HIS:ND1	6:J:586:VAL:HG22	2.08	0.54
5:G:207:VAL:HA	5:G:240:PRO:O	2.08	0.54
5:H:176:LEU:HB3	5:H:178:ASP:OD1	2.07	0.54
6:I:80:GLU:O	6:I:84:LYS:HG2	2.08	0.54
6:I:194:LEU:N	6:J:562:TYR:CE1	2.67	0.54
6:I:619:ASP:N	6:J:284:VAL:HG21	2.23	0.54
6:J:144:ASN:HD22	6:J:147:ARG:CZ	2.21	0.54
6:J:456:ASN:OD1	6:K:412:ARG:CA	2.22	0.54
5:M:4:HIS:CG	6:Q:586:VAL:CB	2.84	0.54
6:O:80:GLU:O	6:O:84:LYS:HG2	2.08	0.54
6:O:283:SER:CB	6:Q:528:ALA:C	2.81	0.54
6:P:351:LEU:HD12	6:P:463:LEU:O	2.07	0.54
6:Q:73:PHE:HE1	6:Q:135:VAL:H	1.56	0.54
5:R:130:PHE:CG	6:W:446:PRO:HB2	2.42	0.54
5:R:155:VAL:O	5:R:259:HIS:HA	2.07	0.54
5:S:194:LEU:HD21	6:U:447:SER:HB2	1.79	0.54
6:U:283:SER:N	6:W:529:SER:H	2.05	0.54
6:V:618:THR:C	6:W:281:PRO:HG3	2.32	0.54
6:X:326:THR:O	6:X:448:PRO:HA	2.07	0.54
2:B:294:ARG:HA	2:B:888:LEU:HD23	1.90	0.54
2:B:928:ASP:OD2	2:B:930:ARG:HG2	2.08	0.54
3:C:438:PRO:CG	4:E:188:THR:CG2	2.68	0.54
4:D:46:ILE:HG22	4:D:187:GLN:CG	2.38	0.54
4:D:342:ARG:CZ	4:D:349:ALA:H	2.21	0.54
4:D:390:ASN:OD1	6:P:50:PRO:HG2	1.98	0.54
4:E:399:GLN:O	4:E:400:THR:C	2.51	0.54
5:G:37:HIS:HD2	5:G:66:GLN:HB3	1.73	0.54
5:H:173:THR:HG22	5:H:188:ARG:HA	1.88	0.54
6:J:351:LEU:HD21	6:J:460:MET:HE1	1.89	0.54
5:L:155:VAL:O	5:L:259:HIS:HA	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:173:THR:HB	5:L:186:LEU:HB3	1.90	0.54
5:M:103:GLU:O	5:M:112:ALA:HA	2.07	0.54
5:N:202:ALA:HA	5:N:248:ALA:O	2.08	0.54
6:O:193:ILE:O	6:O:194:LEU:C	2.45	0.54
6:P:644:LEU:HD23	6:Q:548:LYS:HE3	1.81	0.54
5:R:207:VAL:HA	5:R:240:PRO:O	2.07	0.54
5:S:37:HIS:HD2	5:S:66:GLN:HB3	1.73	0.54
5:S:207:VAL:HA	5:S:240:PRO:O	2.08	0.54
5:T:130:PHE:CG	6:V:446:PRO:HB2	2.42	0.54
6:U:241:ALA:HB1	6:W:146:GLN:HE22	1.72	0.54
6:U:458:THR:HA	6:V:412:ARG:NE	2.10	0.54
6:U:545:VAL:HG11	6:W:641:ILE:HG13	0.56	0.54
6:V:194:LEU:HA	6:W:562:TYR:CG	2.42	0.54
6:V:637:PHE:CE1	6:W:545:VAL:HB	2.43	0.54
6:W:326:THR:O	6:W:448:PRO:HA	2.08	0.54
5:Y:37:HIS:HD2	5:Y:66:GLN:HB3	1.73	0.54
5:Y:138:SER:C	5:Y:195:LEU:HD22	2.32	0.54
1:A:686:ALA:O	1:A:690:ARG:HG3	2.08	0.54
2:B:858:VAL:HB	2:B:861:ARG:HH22	1.70	0.54
3:C:313:LYS:O	3:C:1196:ARG:CD	2.55	0.54
4:D:198:GLN:OE1	4:D:198:GLN:N	2.31	0.54
5:G:103:GLU:O	5:G:112:ALA:HA	2.07	0.54
6:I:84:LYS:HE2	6:K:43:PRO:HA	1.89	0.54
6:I:241:ALA:HB1	6:K:146:GLN:HE22	1.72	0.54
6:I:562:TYR:CD2	6:K:194:LEU:HA	2.43	0.54
6:K:326:THR:O	6:K:448:PRO:HA	2.08	0.54
5:L:29:ARG:HH11	5:L:32:THR:HA	1.72	0.54
5:N:6:ILE:H	5:N:6:ILE:HD12	1.73	0.54
5:N:67:ASP:O	5:N:70:ALA:HB3	2.08	0.54
5:N:142:ALA:HA	5:N:145:ARG:HB2	1.90	0.54
6:O:241:ALA:HB1	6:Q:146:GLN:HE22	1.73	0.54
6:P:457:PRO:C	6:Q:412:ARG:CD	2.49	0.54
6:P:627:ARG:CG	6:Q:272:ASP:OD1	2.50	0.54
5:T:191:LYS:O	6:V:364:PRO:CB	2.38	0.54
6:U:548:LYS:HE3	6:W:644:LEU:HA	1.81	0.54
6:V:295:ARG:HH12	6:W:419:MET:HA	1.70	0.54
5:Y:207:VAL:HA	5:Y:240:PRO:O	2.08	0.54
1:A:405:ARG:HD3	1:A:781:ILE:HD12	1.89	0.53
4:D:393:ASP:OD1	6:P:53:THR:CA	2.57	0.53
4:E:78:PRO:HB3	4:E:85:THR:C	2.33	0.53
5:G:128:LEU:HA	5:G:196:LEU:HD22	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:202:ALA:HA	5:G:248:ALA:O	2.08	0.53
6:I:193:ILE:CG2	6:J:561:ASP:HB2	2.39	0.53
6:I:606:THR:CG2	6:K:28:SER:CB	2.79	0.53
6:J:161:LYS:O	6:K:534:SER:CB	2.57	0.53
6:J:456:ASN:HD21	6:J:459:LEU:HG	1.72	0.53
6:K:80:GLU:O	6:K:84:LYS:HG2	2.08	0.53
5:L:184:LYS:O	5:L:199:ASP:HA	2.08	0.53
5:N:128:LEU:HA	5:N:196:LEU:HD22	1.90	0.53
6:O:326:THR:O	6:O:448:PRO:HA	2.08	0.53
6:O:625:ARG:CZ	6:P:278:THR:H	2.21	0.53
6:P:184:LYS:HA	6:P:648:LYS:HZ2	1.73	0.53
6:P:326:THR:O	6:P:448:PRO:HA	2.07	0.53
6:P:456:ASN:HD21	6:P:459:LEU:HG	1.73	0.53
5:R:142:ALA:HA	5:R:145:ARG:HB2	1.90	0.53
5:T:202:ALA:HA	5:T:248:ALA:O	2.08	0.53
6:U:36:LEU:HD11	6:V:242:PHE:CZ	2.43	0.53
6:U:562:TYR:CD2	6:W:194:LEU:HA	2.43	0.53
6:U:619:ASP:N	6:V:284:VAL:HG21	2.23	0.53
6:V:30:ALA:HB3	6:W:610:THR:CA	2.32	0.53
6:V:351:LEU:HD12	6:V:463:LEU:O	2.08	0.53
5:Y:202:ALA:HA	5:Y:248:ALA:O	2.08	0.53
1:A:228:GLU:HG2	1:A:239:LEU:HB3	1.90	0.53
1:A:379:VAL:CG1	6:I:60:SER:HG	2.12	0.53
2:B:215:LEU:CD1	2:B:216:THR:HG22	2.38	0.53
2:B:222:PHE:CE1	2:B:1154:ILE:HG12	2.43	0.53
4:D:158:HIS:HB3	4:D:287:SER:HB2	1.91	0.53
6:I:161:LYS:HE2	6:J:533:ASP:OD2	2.05	0.53
6:J:326:THR:O	6:J:448:PRO:HA	2.08	0.53
6:J:351:LEU:HD12	6:J:463:LEU:O	2.07	0.53
6:O:272:ASP:OD1	6:Q:627:ARG:CG	2.51	0.53
6:O:351:LEU:HD12	6:O:463:LEU:O	2.07	0.53
6:O:409:ILE:O	6:O:414:GLN:OE1	2.25	0.53
6:O:538:ALA:HA	6:Q:168:THR:HB	1.88	0.53
6:P:36:LEU:HD21	6:Q:242:PHE:CD1	2.40	0.53
6:Q:411:VAL:HB	6:Q:412:ARG:HH21	1.72	0.53
5:R:65:ILE:HA	5:R:68:SER:HB2	1.88	0.53
5:R:202:ALA:HA	5:R:248:ALA:O	2.08	0.53
5:S:67:ASP:O	5:S:70:ALA:HB3	2.08	0.53
6:U:153:MET:HA	6:U:156:VAL:HG12	1.90	0.53
6:U:161:LYS:HG2	6:V:533:ASP:CG	2.30	0.53
6:U:193:ILE:O	6:U:194:LEU:C	2.45	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:W:593:GLN:HB3	6:W:596:MET:HE3	1.90	0.53
6:X:351:LEU:HD21	6:X:460:MET:HE1	1.89	0.53
4:D:24:ASN:O	4:D:27:GLN:HB3	2.09	0.53
4:E:8:GLY:HA3	4:E:142:VAL:HB	1.89	0.53
5:L:37:HIS:CD2	5:L:66:GLN:HB3	2.43	0.53
5:M:67:ASP:O	5:M:70:ALA:HB3	2.08	0.53
5:N:37:HIS:HD2	5:N:66:GLN:HB3	1.72	0.53
6:O:411:VAL:HB	6:O:412:ARG:HH21	1.73	0.53
6:O:412:ARG:HB2	6:Q:459:LEU:HB2	1.91	0.53
6:O:414:GLN:CG	6:Q:459:LEU:HD13	2.04	0.53
6:O:445:ILE:HG12	6:O:447:SER:N	2.24	0.53
6:O:562:TYR:CD2	6:Q:194:LEU:HA	2.43	0.53
6:P:161:LYS:O	6:Q:534:SER:CB	2.56	0.53
6:P:295:ARG:HH12	6:Q:419:MET:HA	1.71	0.53
6:P:351:LEU:HD13	6:P:464:LEU:HD13	1.91	0.53
5:S:176:LEU:HB3	5:S:178:ASP:OD1	2.08	0.53
5:T:37:HIS:CD2	5:T:66:GLN:HB3	2.43	0.53
5:T:146:ASN:ND2	5:T:158:LEU:HD21	2.24	0.53
6:U:168:THR:OG1	6:V:537:SER:C	2.51	0.53
6:U:534:SER:O	6:U:537:SER:OG	2.27	0.53
6:V:28:SER:CB	6:W:606:THR:HG22	2.26	0.53
6:W:111:PHE:CE2	6:W:145:LEU:HB2	2.43	0.53
6:X:144:ASN:HD22	6:X:147:ARG:CZ	2.19	0.53
6:X:593:GLN:HB3	6:X:596:MET:HE3	1.91	0.53
2:B:317:PHE:HE1	2:B:385:VAL:HG21	1.73	0.53
2:B:428:LEU:HD21	2:B:842:ALA:HA	1.90	0.53
2:B:455:GLU:O	2:B:458:HIS:HB2	2.08	0.53
3:C:474:GLU:O	3:C:478:THR:HG23	2.08	0.53
3:C:599:ILE:HB	3:C:608:GLN:HG2	1.89	0.53
4:D:366:ILE:HA	4:D:369:HIS:NE2	2.22	0.53
6:J:44:THR:CA	6:K:84:LYS:CE	2.48	0.53
6:J:80:GLU:O	6:J:84:LYS:HG2	2.07	0.53
6:J:160:GLN:CG	6:K:612:SER:HB2	1.97	0.53
6:J:184:LYS:HA	6:J:648:LYS:HZ2	1.73	0.53
5:L:148:CYS:SG	5:L:271:HIS:HB2	2.48	0.53
5:N:130:PHE:CG	6:P:446:PRO:HB2	2.43	0.53
6:O:534:SER:HB2	6:Q:165:THR:CB	2.28	0.53
6:O:545:VAL:CB	6:Q:641:ILE:CG1	2.83	0.53
6:P:578:SER:O	6:Q:289:LEU:O	2.26	0.53
5:T:192:THR:O	6:V:364:PRO:HB2	2.03	0.53
6:U:84:LYS:HE2	6:W:43:PRO:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:962:GLU:OE2	1:A:964:VAL:HG13	2.09	0.53
1:A:1175:ARG:HH11	1:A:1215:LEU:HD22	1.74	0.53
2:B:951:PRO:CG	4:D:37:TRP:HZ3	2.20	0.53
3:C:100:VAL:HG12	3:C:102:ASP:OD2	2.09	0.53
4:D:152:ASP:OD1	4:D:306:PRO:HG3	2.08	0.53
4:E:267:ILE:HA	4:E:324:PRO:O	2.09	0.53
5:F:142:ALA:HA	5:F:145:ARG:HB2	1.91	0.53
5:G:67:ASP:O	5:G:70:ALA:HB3	2.08	0.53
5:H:6:ILE:H	5:H:6:ILE:HD12	1.73	0.53
6:I:153:MET:HA	6:I:156:VAL:HG12	1.91	0.53
6:I:219:LYS:HG3	6:I:220:PRO:HD2	1.89	0.53
6:I:283:SER:N	6:K:529:SER:H	2.05	0.53
6:I:295:ARG:HH11	6:I:298:PHE:HB2	1.73	0.53
6:I:328:THR:HG21	6:I:451:SER:HB2	1.91	0.53
6:I:445:ILE:HG12	6:I:447:SER:N	2.24	0.53
6:I:598:SER:HB3	6:K:630:LEU:HD11	1.91	0.53
6:J:161:LYS:C	6:K:534:SER:HG	2.15	0.53
6:J:618:THR:C	6:K:281:PRO:HG3	2.34	0.53
5:N:4:HIS:CE1	6:O:586:VAL:CB	2.92	0.53
6:O:472:ARG:HG3	6:Q:530:ARG:HA	1.90	0.53
6:P:36:LEU:CG	6:Q:253:VAL:CG1	2.86	0.53
6:P:593:GLN:HB3	6:P:596:MET:HE3	1.89	0.53
6:Q:445:ILE:HG12	6:Q:447:SER:N	2.23	0.53
5:S:155:VAL:O	5:S:259:HIS:HA	2.07	0.53
6:U:562:TYR:HD1	6:U:562:TYR:H	1.57	0.53
6:U:593:GLN:HB3	6:U:596:MET:HE3	1.90	0.53
2:B:242:ARG:HH11	2:B:266:PRO:HD2	1.73	0.53
5:F:128:LEU:HA	5:F:196:LEU:HD22	1.90	0.53
5:G:6:ILE:H	5:G:6:ILE:HD12	1.73	0.53
6:I:161:LYS:HG2	6:J:533:ASP:CG	2.31	0.53
6:I:169:MET:H	6:J:537:SER:HB2	1.69	0.53
6:I:623:LYS:C	6:I:627:ARG:HE	2.17	0.53
6:I:637:PHE:HE1	6:J:545:VAL:HB	1.73	0.53
5:L:6:ILE:H	5:L:6:ILE:HD12	1.72	0.53
5:L:103:GLU:O	5:L:112:ALA:HA	2.08	0.53
5:L:202:ALA:HA	5:L:248:ALA:O	2.09	0.53
5:N:207:VAL:HA	5:N:240:PRO:O	2.08	0.53
6:O:530:ARG:CZ	6:P:482:ASP:OD1	2.56	0.53
6:P:637:PHE:CE1	6:Q:545:VAL:HB	2.43	0.53
5:R:4:HIS:ND1	6:V:586:VAL:CG1	2.71	0.53
5:T:142:ALA:HA	5:T:145:ARG:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:162:SER:O	5:T:261:ASP:HB3	2.09	0.53
6:V:160:GLN:CG	6:W:612:SER:HB2	1.96	0.53
6:V:187:LEU:O	6:V:190:ALA:HB3	2.08	0.53
6:X:457:PRO:O	6:X:458:THR:HB	2.08	0.53
2:B:873:GLN:OE1	2:B:884:PRO:HD2	2.08	0.53
2:B:880:LEU:O	4:D:32:CYS:HA	2.08	0.53
3:C:438:PRO:HB3	4:E:188:THR:HG21	1.87	0.53
3:C:681:ASN:HD22	3:C:681:ASN:C	2.16	0.53
4:D:392:ALA:CA	6:P:49:ARG:CZ	2.85	0.53
5:F:138:SER:C	5:F:195:LEU:HD22	2.33	0.53
5:G:162:SER:O	5:G:261:ASP:HB3	2.08	0.53
5:H:162:SER:O	5:H:261:ASP:HB3	2.09	0.53
6:I:36:LEU:CG	6:J:242:PHE:HB3	2.27	0.53
6:J:194:LEU:HA	6:K:562:TYR:CG	2.44	0.53
5:M:5:MET:HG3	6:Q:494:THR:HG23	1.91	0.53
6:O:84:LYS:HD3	6:Q:44:THR:HG1	1.73	0.53
6:P:577:VAL:HG12	6:Q:471:LEU:HD22	1.91	0.53
6:Q:119:VAL:CG2	6:Q:131:VAL:HB	2.39	0.53
5:T:6:ILE:H	5:T:6:ILE:HD12	1.73	0.53
6:U:530:ARG:CZ	6:V:482:ASP:OD1	2.56	0.53
6:W:317:ARG:HA	6:W:330:GLN:HA	1.91	0.53
6:X:282:VAL:HG23	6:X:472:ARG:HH22	1.74	0.53
5:Y:142:ALA:HA	5:Y:145:ARG:HB2	1.90	0.53
1:A:490:ASP:HB3	1:A:494:PHE:CE1	2.43	0.53
2:B:275:LYS:HZ3	2:B:285:ASN:HA	1.72	0.53
2:B:572:ALA:O	2:B:575:MET:HB2	2.08	0.53
3:C:313:LYS:HG3	3:C:1198:ASN:HB2	1.91	0.53
3:C:436:LEU:CB	4:E:43:HIS:CD2	2.92	0.53
5:F:67:ASP:O	5:F:70:ALA:HB3	2.09	0.53
5:F:146:ASN:ND2	5:F:158:LEU:HD21	2.23	0.53
5:H:207:VAL:HA	5:H:240:PRO:O	2.08	0.53
6:O:36:LEU:C	6:P:253:VAL:CG1	2.82	0.53
6:O:153:MET:HA	6:O:156:VAL:HG12	1.91	0.53
6:O:593:GLN:HB3	6:O:596:MET:HE3	1.90	0.53
6:Q:567:ARG:NH2	6:Q:571:ARG:HH22	2.07	0.53
5:R:67:ASP:O	5:R:70:ALA:HB3	2.09	0.53
5:S:162:SER:O	5:S:261:ASP:HB3	2.08	0.53
6:U:165:THR:O	6:V:537:SER:HB2	2.06	0.53
6:U:194:LEU:CA	6:V:562:TYR:CG	2.89	0.53
6:U:272:ASP:OD1	6:W:627:ARG:CG	2.50	0.53
6:V:457:PRO:O	6:V:458:THR:HB	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:528:ALA:CA	6:W:283:SER:CB	2.86	0.53
6:W:73:PHE:HE1	6:W:135:VAL:H	1.57	0.53
6:W:351:LEU:HD21	6:W:460:MET:HE1	1.89	0.53
6:X:445:ILE:HG12	6:X:447:SER:N	2.24	0.53
1:A:553:GLN:HB3	1:A:560:HIS:O	2.09	0.53
2:B:601:ILE:HB	2:B:606:MET:O	2.08	0.53
5:F:4:HIS:CG	6:J:586:VAL:CG1	2.92	0.53
5:F:80:ARG:NH1	5:F:81:SER:HA	2.24	0.53
6:I:195:PRO:CD	6:J:562:TYR:CG	2.77	0.53
6:I:253:VAL:HG13	6:K:36:LEU:CG	2.37	0.53
6:I:281:PRO:HG2	6:K:619:ASP:HA	1.91	0.53
6:I:317:ARG:HA	6:I:330:GLN:HA	1.91	0.53
6:I:641:ILE:HG12	6:J:545:VAL:HG22	1.90	0.53
6:J:219:LYS:HG3	6:J:220:PRO:HD2	1.89	0.53
6:J:625:ARG:HD2	6:K:278:THR:OG1	2.09	0.53
6:Q:71:TYR:CE2	6:Q:138:SER:HA	2.44	0.53
5:T:207:VAL:HA	5:T:240:PRO:O	2.09	0.53
6:U:281:PRO:HG2	6:W:619:ASP:HA	1.91	0.53
6:U:545:VAL:HB	6:W:637:PHE:CE1	2.44	0.53
6:V:36:LEU:HD21	6:W:242:PHE:CD1	2.39	0.53
6:V:567:ARG:NH2	6:V:571:ARG:HH22	2.07	0.53
6:V:593:GLN:HB3	6:V:596:MET:HE3	1.90	0.53
5:Y:214:ARG:HA	5:Y:234:ARG:HH21	1.74	0.53
2:B:597:GLU:HA	2:B:597:GLU:OE2	2.09	0.53
6:I:111:PHE:CE2	6:I:145:LEU:HB2	2.44	0.53
6:I:562:TYR:HD1	6:I:562:TYR:H	1.55	0.53
6:I:593:GLN:HB3	6:I:596:MET:HE3	1.91	0.53
6:I:625:ARG:CZ	6:J:278:THR:H	2.21	0.53
6:J:445:ILE:HG12	6:J:447:SER:N	2.23	0.53
6:K:368:THR:H	6:K:404:ALA:HB3	1.74	0.53
5:L:67:ASP:O	5:L:70:ALA:HB3	2.09	0.53
5:L:120:ALA:HB3	5:L:177:ASP:O	2.09	0.53
5:M:49:CYS:O	5:M:52:CYS:SG	2.67	0.53
6:O:456:ASN:HD22	6:O:457:PRO:HD2	1.75	0.53
6:O:534:SER:O	6:O:537:SER:OG	2.27	0.53
6:P:154:ARG:HE	6:Q:247:SER:C	2.02	0.53
6:Q:326:THR:O	6:Q:448:PRO:HA	2.09	0.53
5:R:6:ILE:H	5:R:6:ILE:HD12	1.73	0.53
5:R:120:ALA:HB3	5:R:177:ASP:O	2.09	0.53
5:S:80:ARG:NH1	5:S:81:SER:HA	2.24	0.53
6:U:326:THR:O	6:U:448:PRO:HA	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:111:PHE:CE2	6:V:145:LEU:HB2	2.43	0.53
6:V:298:PHE:CB	6:W:419:MET:H	2.14	0.53
6:W:187:LEU:O	6:W:190:ALA:HB3	2.09	0.53
6:X:119:VAL:CG2	6:X:131:VAL:HB	2.40	0.53
3:C:1060:ARG:HH11	3:C:1064:TRP:HB3	1.74	0.52
4:E:336:ALA:HA	6:U:55:VAL:HG23	1.91	0.52
5:H:184:LYS:O	5:H:199:ASP:HA	2.09	0.52
6:I:411:VAL:HG22	6:K:333:PRO:CA	2.35	0.52
6:J:36:LEU:CG	6:K:253:VAL:CG1	2.86	0.52
5:N:103:GLU:O	5:N:112:ALA:HA	2.07	0.52
5:N:184:LYS:O	5:N:199:ASP:HA	2.09	0.52
6:O:606:THR:CG2	6:Q:28:SER:CB	2.78	0.52
6:O:619:ASP:HA	6:P:281:PRO:CG	2.39	0.52
6:P:317:ARG:HA	6:P:330:GLN:HA	1.90	0.52
6:Q:153:MET:HA	6:Q:156:VAL:HG12	1.91	0.52
5:R:37:HIS:HD2	5:R:66:GLN:HB3	1.74	0.52
5:S:184:LYS:O	5:S:199:ASP:HA	2.09	0.52
6:U:71:TYR:CE2	6:U:138:SER:HA	2.44	0.52
6:U:165:THR:HG21	6:V:534:SER:HB3	1.83	0.52
6:U:368:THR:H	6:U:404:ALA:HB3	1.74	0.52
6:U:606:THR:CG2	6:W:28:SER:CB	2.79	0.52
6:V:326:THR:O	6:V:448:PRO:HA	2.08	0.52
6:X:494:THR:C	5:Y:5:MET:HE2	2.34	0.52
1:A:233:PRO:HB2	1:A:236:GLY:O	2.09	0.52
1:A:400:LEU:O	1:A:402:PRO:HD3	2.10	0.52
1:A:568:ARG:HA	1:A:568:ARG:NE	2.23	0.52
1:A:1048:CYS:O	1:A:1048:CYS:SG	2.66	0.52
2:B:328:ARG:HA	2:B:328:ARG:CZ	2.39	0.52
3:C:1008:GLY:O	3:C:1011:VAL:HG22	2.09	0.52
5:G:142:ALA:HA	5:G:145:ARG:HB2	1.90	0.52
5:H:4:HIS:HB2	6:I:586:VAL:CG1	2.35	0.52
6:I:147:ARG:CD	6:Q:100:LYS:HZ1	2.02	0.52
6:I:456:ASN:OD1	6:J:412:ARG:HA	1.84	0.52
6:I:534:SER:O	6:I:537:SER:OG	2.27	0.52
5:L:207:VAL:HA	5:L:240:PRO:O	2.09	0.52
5:N:146:ASN:ND2	5:N:158:LEU:HD21	2.24	0.52
6:O:161:LYS:HE2	6:P:533:ASP:OD2	2.05	0.52
6:O:168:THR:OG1	6:P:537:SER:C	2.53	0.52
6:O:281:PRO:HD3	6:Q:622:GLU:CD	2.34	0.52
6:P:407:LEU:HB3	6:P:418:ASN:HB3	1.92	0.52
6:Q:623:LYS:C	6:Q:627:ARG:HE	2.16	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:184:LYS:O	5:T:199:ASP:HA	2.08	0.52
6:U:36:LEU:C	6:V:253:VAL:CG1	2.82	0.52
6:U:253:VAL:HG13	6:W:36:LEU:CG	2.36	0.52
6:U:279:PRO:C	6:W:622:GLU:HG2	2.32	0.52
6:U:281:PRO:HD3	6:W:622:GLU:CD	2.33	0.52
6:U:283:SER:CB	6:W:528:ALA:C	2.81	0.52
6:U:333:PRO:C	6:V:411:VAL:HG21	2.09	0.52
6:U:625:ARG:CZ	6:V:278:THR:H	2.22	0.52
6:V:368:THR:O	6:V:445:ILE:HG13	2.09	0.52
6:V:445:ILE:HG12	6:V:447:SER:N	2.23	0.52
6:W:567:ARG:NH2	6:W:571:ARG:HH22	2.06	0.52
6:X:111:PHE:CE2	6:X:145:LEU:HB2	2.44	0.52
6:X:187:LEU:O	6:X:190:ALA:HB3	2.10	0.52
6:X:634:LYS:O	6:X:637:PHE:HB3	2.09	0.52
5:Y:37:HIS:CD2	5:Y:66:GLN:HB3	2.45	0.52
1:A:510:LEU:HD13	1:A:514:PHE:CE1	2.45	0.52
1:A:814:GLY:O	1:A:817:SER:HB3	2.10	0.52
1:A:1036:ARG:H	1:A:1036:ARG:CZ	2.22	0.52
2:B:353:GLN:HE21	3:C:1020:ILE:HG13	1.75	0.52
3:C:153:ILE:HD11	3:C:194:ILE:HB	1.92	0.52
3:C:864:PHE:O	3:C:868:ARG:HG3	2.09	0.52
4:E:339:LEU:HD12	4:E:342:ARG:HH11	1.75	0.52
5:G:146:ASN:ND2	5:G:158:LEU:HD21	2.25	0.52
5:H:37:HIS:CD2	5:H:66:GLN:HB3	2.45	0.52
6:I:36:LEU:C	6:J:253:VAL:CG1	2.82	0.52
6:I:412:ARG:CD	6:K:457:PRO:C	2.64	0.52
6:I:530:ARG:CZ	6:J:482:ASP:OD1	2.57	0.52
6:I:545:VAL:CB	6:K:641:ILE:CG1	2.84	0.52
6:O:154:ARG:HH12	6:P:246:THR:HB	1.67	0.52
6:O:232:ALA:HB2	6:Q:66:ASP:C	2.35	0.52
6:P:623:LYS:C	6:P:627:ARG:HE	2.17	0.52
6:P:625:ARG:HD2	6:Q:278:THR:OG1	2.09	0.52
5:R:146:ASN:ND2	5:R:158:LEU:HD21	2.24	0.52
5:S:37:HIS:CD2	5:S:66:GLN:HB3	2.44	0.52
5:T:4:HIS:CE1	6:U:586:VAL:CB	2.92	0.52
6:U:619:ASP:HA	6:V:281:PRO:CG	2.39	0.52
6:V:625:ARG:HD2	6:W:278:THR:OG1	2.09	0.52
6:W:623:LYS:C	6:W:627:ARG:HE	2.16	0.52
5:Y:6:ILE:H	5:Y:6:ILE:HD12	1.74	0.52
5:Y:120:ALA:HB3	5:Y:177:ASP:O	2.10	0.52
1:A:517:ALA:HB3	1:A:578:VAL:HA	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:689:VAL:HG22	2:B:831:LEU:HB3	1.91	0.52
2:B:832:ILE:O	2:B:835:HIS:HB3	2.09	0.52
2:B:954:PRO:HB3	4:D:40:ARG:CA	2.39	0.52
5:F:37:HIS:CD2	5:F:66:GLN:HB3	2.44	0.52
5:G:184:LYS:O	5:G:199:ASP:HA	2.09	0.52
5:H:202:ALA:HA	5:H:248:ALA:O	2.08	0.52
6:I:41:LEU:HD22	6:J:242:PHE:CD2	2.38	0.52
6:I:184:LYS:HA	6:I:648:LYS:HZ2	1.74	0.52
6:I:281:PRO:HD3	6:K:622:GLU:CD	2.34	0.52
6:I:530:ARG:HA	6:J:472:ARG:HG3	1.90	0.52
6:I:538:ALA:HA	6:K:168:THR:HB	1.88	0.52
6:J:644:LEU:HD23	6:K:548:LYS:HE3	1.82	0.52
6:K:111:PHE:CE2	6:K:145:LEU:HB2	2.45	0.52
5:L:80:ARG:NH1	5:L:81:SER:HA	2.24	0.52
5:M:146:ASN:ND2	5:M:158:LEU:HD21	2.24	0.52
5:N:37:HIS:CD2	5:N:66:GLN:HB3	2.44	0.52
6:O:111:PHE:CE2	6:O:145:LEU:HB2	2.44	0.52
6:O:529:SER:CB	6:P:473:GLU:HA	2.39	0.52
6:Q:111:PHE:CE2	6:Q:145:LEU:HB2	2.43	0.52
6:Q:317:ARG:HA	6:Q:330:GLN:HA	1.91	0.52
6:U:119:VAL:CG2	6:U:131:VAL:HB	2.40	0.52
6:V:623:LYS:C	6:V:627:ARG:HE	2.18	0.52
2:B:264:PRO:HG2	2:B:270:SER:HB3	1.92	0.52
5:F:131:ARG:NE	6:K:448:PRO:HG2	2.19	0.52
5:H:146:ASN:ND2	5:H:158:LEU:HD21	2.24	0.52
6:I:119:VAL:CG2	6:I:131:VAL:HB	2.39	0.52
6:I:235:LEU:HD21	6:K:42:ASN:HD22	1.52	0.52
6:I:411:VAL:HB	6:I:412:ARG:HH21	1.74	0.52
6:I:567:ARG:NH2	6:I:571:ARG:HH22	2.08	0.52
6:I:619:ASP:HA	6:J:281:PRO:CG	2.39	0.52
6:J:623:LYS:C	6:J:627:ARG:HE	2.18	0.52
6:K:317:ARG:HA	6:K:330:GLN:HA	1.91	0.52
5:L:142:ALA:HA	5:L:145:ARG:HB2	1.90	0.52
5:M:142:ALA:HA	5:M:145:ARG:HB2	1.90	0.52
6:O:416:ARG:C	6:Q:298:PHE:HE2	1.88	0.52
6:O:537:SER:CA	6:Q:168:THR:OG1	2.57	0.52
6:P:111:PHE:CE2	6:P:145:LEU:HB2	2.44	0.52
5:T:180:HIS:CG	5:T:181:PRO:HD2	2.44	0.52
6:U:567:ARG:NH2	6:U:571:ARG:HH22	2.07	0.52
6:V:641:ILE:HG12	6:W:545:VAL:HG13	1.79	0.52
6:X:623:LYS:C	6:X:627:ARG:HE	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:810:LEU:HD21	1:A:1016:ALA:O	2.10	0.52
2:B:851:PHE:HA	2:B:854:ASN:ND2	2.25	0.52
3:C:1024:PRO:O	3:C:1027:LEU:HD12	2.10	0.52
3:C:1133:VAL:HG12	3:C:1135:TYR:CE2	2.45	0.52
4:D:187:GLN:CD	4:D:187:GLN:H	2.18	0.52
4:E:336:ALA:CB	6:U:54:SER:HB2	2.40	0.52
5:H:24:LEU:HA	5:H:41:VAL:HG22	1.92	0.52
5:H:148:CYS:SG	5:H:271:HIS:HB2	2.49	0.52
6:I:43:PRO:HA	6:J:84:LYS:HE2	1.90	0.52
6:I:72:SER:OG	6:J:235:LEU:HD12	2.09	0.52
6:I:606:THR:HG23	6:K:173:ASP:OD2	2.05	0.52
6:I:640:GLN:HE22	6:J:545:VAL:HG12	1.24	0.52
6:J:577:VAL:HG12	6:K:471:LEU:HD22	1.91	0.52
6:K:153:MET:HA	6:K:156:VAL:HG12	1.91	0.52
5:L:162:SER:O	5:L:261:ASP:HB3	2.09	0.52
5:N:80:ARG:NH1	5:N:81:SER:HA	2.24	0.52
6:O:253:VAL:HG13	6:Q:36:LEU:CG	2.38	0.52
6:O:567:ARG:NH2	6:O:571:ARG:HH22	2.07	0.52
6:O:622:GLU:CD	6:P:281:PRO:HD3	2.35	0.52
6:P:445:ILE:HG12	6:P:447:SER:N	2.25	0.52
5:R:133:CYS:SG	5:R:197:VAL:HB	2.50	0.52
5:R:194:LEU:HD21	6:W:447:SER:HB2	1.83	0.52
5:S:142:ALA:HA	5:S:145:ARG:HB2	1.91	0.52
5:S:176:LEU:HD22	5:S:185:VAL:CG2	2.39	0.52
6:U:317:ARG:HA	6:U:330:GLN:HA	1.92	0.52
6:U:411:VAL:HB	6:U:412:ARG:HH21	1.74	0.52
6:U:412:ARG:HA	6:W:456:ASN:ND2	1.72	0.52
6:V:317:ARG:HA	6:V:330:GLN:HA	1.92	0.52
6:W:71:TYR:CE2	6:W:138:SER:HA	2.44	0.52
6:W:445:ILE:HG12	6:W:447:SER:N	2.24	0.52
1:A:1057:PRO:HD3	1:A:1094:GLN:NE2	2.21	0.52
2:B:380:GLU:N	3:C:798:VAL:HG22	2.24	0.52
2:B:661:THR:C	4:D:196:LEU:HD13	2.29	0.52
3:C:560:LEU:HD11	3:C:564:TRP:CZ2	2.44	0.52
3:C:1006:ARG:HG3	3:C:1013:VAL:HG11	1.91	0.52
4:D:237:ALA:O	4:D:244:ASP:HA	2.10	0.52
4:E:225:ARG:HD2	4:E:346:LEU:HD21	1.92	0.52
5:F:49:CYS:O	5:F:52:CYS:SG	2.68	0.52
5:H:5:MET:HG3	6:I:494:THR:HG21	1.92	0.52
5:H:214:ARG:HA	5:H:234:ARG:HH21	1.75	0.52
6:I:47:LEU:HA	6:I:118:TYR:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:147:ARG:NH1	6:Q:100:LYS:CG	2.61	0.52
6:I:351:LEU:HD13	6:I:464:LEU:HD13	1.91	0.52
6:K:567:ARG:NH2	6:K:571:ARG:HH22	2.07	0.52
5:L:4:HIS:CG	6:P:586:VAL:CG1	2.93	0.52
5:M:184:LYS:O	5:M:199:ASP:HA	2.10	0.52
6:O:119:VAL:CG2	6:O:131:VAL:HB	2.39	0.52
6:P:36:LEU:HB3	6:Q:253:VAL:HG13	1.82	0.52
5:R:184:LYS:O	5:R:199:ASP:HA	2.09	0.52
6:U:187:LEU:O	6:U:190:ALA:HB3	2.09	0.52
6:U:529:SER:N	6:V:283:SER:CB	2.71	0.52
6:U:634:LYS:O	6:U:637:PHE:HB3	2.10	0.52
6:V:36:LEU:HB3	6:W:253:VAL:HG13	1.81	0.52
6:V:161:LYS:O	6:W:534:SER:CB	2.57	0.52
6:V:184:LYS:HA	6:V:648:LYS:HZ2	1.74	0.52
6:V:530:ARG:NH2	6:W:482:ASP:OD1	2.43	0.52
6:X:412:ARG:CZ	6:X:414:GLN:HE22	2.22	0.52
5:Y:128:LEU:HA	5:Y:196:LEU:HD22	1.90	0.52
5:Y:180:HIS:CG	5:Y:181:PRO:HD2	2.45	0.52
1:A:816:ASN:HA	1:A:819:ILE:HD12	1.90	0.52
2:B:209:ASN:HD21	2:B:267:THR:HG21	1.74	0.52
2:B:864:PHE:O	2:B:867:ALA:HB3	2.10	0.52
2:B:954:PRO:CB	4:D:43:HIS:NE2	2.72	0.52
3:C:407:ARG:HG2	4:E:176:ALA:O	2.10	0.52
4:E:383:ARG:HE	4:E:385:PRO:HB3	1.74	0.52
5:F:188:ARG:HD2	5:F:196:LEU:H	1.75	0.52
5:G:80:ARG:NH1	5:G:81:SER:HA	2.24	0.52
6:I:168:THR:OG1	6:J:537:SER:C	2.52	0.52
6:I:187:LEU:O	6:I:190:ALA:HB3	2.10	0.52
6:I:283:SER:CB	6:K:528:ALA:C	2.82	0.52
6:I:299:ILE:HD13	6:J:419:MET:HE1	1.83	0.52
6:J:119:VAL:CG2	6:J:131:VAL:HB	2.39	0.52
6:J:641:ILE:HD11	6:K:545:VAL:CG2	2.20	0.52
5:N:133:CYS:SG	5:N:197:VAL:HB	2.50	0.52
5:N:176:LEU:HD22	5:N:185:VAL:CG2	2.39	0.52
6:O:71:TYR:CE2	6:O:138:SER:HA	2.45	0.52
6:O:647:GLY:O	6:O:648:LYS:O	2.28	0.52
6:U:411:VAL:HG22	6:W:333:PRO:CA	2.35	0.52
6:U:623:LYS:C	6:U:627:ARG:HE	2.18	0.52
6:V:165:THR:CA	6:W:537:SER:OG	2.56	0.52
6:W:312:ASN:HB2	6:W:333:PRO:HA	1.92	0.52
6:X:38:PRO:HA	6:X:41:LEU:HD12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:443:TYR:CE1	1:A:644:LEU:HD22	2.45	0.52
2:B:226:MET:HG2	2:B:233:PRO:HG2	1.92	0.52
2:B:376:LEU:HD13	3:C:795:ASP:CG	2.34	0.52
4:D:392:ALA:HB2	6:P:49:ARG:HD3	1.85	0.52
4:E:1:MET:HG3	4:E:3:GLN:H	1.74	0.52
5:G:120:ALA:HB3	5:G:177:ASP:O	2.10	0.52
6:I:34:ILE:C	6:J:256:SER:OG	2.42	0.52
6:J:187:LEU:O	6:J:190:ALA:HB3	2.09	0.52
6:J:300:LYS:HE2	6:K:418:ASN:HD21	1.72	0.52
6:K:634:LYS:O	6:K:637:PHE:HB3	2.10	0.52
5:M:188:ARG:HD2	5:M:196:LEU:H	1.75	0.52
5:N:24:LEU:HA	5:N:41:VAL:HG22	1.92	0.52
6:O:36:LEU:HB3	6:P:253:VAL:HG13	1.72	0.52
6:O:72:SER:OG	6:P:235:LEU:HD12	2.10	0.52
6:O:170:LEU:N	6:P:541:SER:CB	2.70	0.52
6:O:195:PRO:CD	6:P:562:TYR:CG	2.76	0.52
6:O:459:LEU:CD2	6:P:414:GLN:NE2	2.46	0.52
6:O:625:ARG:HH12	6:P:277:ASP:N	2.06	0.52
6:Q:351:LEU:HD13	6:Q:464:LEU:HD13	1.92	0.52
5:R:162:SER:O	5:R:261:ASP:HB3	2.10	0.52
5:R:180:HIS:CG	5:R:181:PRO:HD2	2.45	0.52
5:S:214:ARG:HA	5:S:234:ARG:HH21	1.75	0.52
6:U:193:ILE:CG2	6:V:561:ASP:HB2	2.40	0.52
6:U:242:PHE:CG	6:W:36:LEU:CD1	2.83	0.52
5:Y:49:CYS:O	5:Y:52:CYS:SG	2.68	0.52
1:A:226:VAL:O	1:A:291:PRO:HA	2.10	0.52
1:A:596:ASN:O	1:A:600:ILE:HG13	2.09	0.52
1:A:644:LEU:HG	1:A:656:PHE:O	2.10	0.52
2:B:309:LEU:HA	2:B:399:ARG:NH1	2.14	0.52
2:B:450:ASP:CA	2:B:861:ARG:HD3	2.34	0.52
3:C:417:VAL:HG22	3:C:432:ILE:HD12	1.92	0.52
5:F:184:LYS:O	5:F:199:ASP:HA	2.10	0.52
5:H:120:ALA:HB3	5:H:177:ASP:O	2.09	0.52
6:I:36:LEU:HB3	6:J:253:VAL:HG13	1.75	0.52
6:I:456:ASN:HD22	6:I:457:PRO:HD2	1.75	0.52
6:J:36:LEU:CG	6:K:242:PHE:HB3	2.30	0.52
6:J:71:TYR:CE2	6:J:138:SER:HA	2.44	0.52
6:J:161:LYS:HG3	6:K:533:ASP:OD1	1.99	0.52
6:J:634:LYS:O	6:J:637:PHE:HB3	2.10	0.52
5:L:124:ASP:HA	5:L:134:ASP:OD2	2.10	0.52
5:L:176:LEU:HD22	5:L:185:VAL:CG2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:161:LYS:CA	6:P:534:SER:OG	2.58	0.52
6:O:187:LEU:O	6:O:190:ALA:HB3	2.09	0.52
6:O:317:ARG:HA	6:O:330:GLN:HA	1.91	0.52
6:O:598:SER:HB3	6:Q:630:LEU:HD11	1.91	0.52
6:Q:368:THR:O	6:Q:445:ILE:HG13	2.10	0.52
5:S:120:ALA:HB3	5:S:177:ASP:O	2.10	0.52
5:T:120:ALA:HB3	5:T:177:ASP:O	2.10	0.52
6:U:232:ALA:HB1	6:W:66:ASP:HB3	1.75	0.52
6:U:232:ALA:HB2	6:W:66:ASP:C	2.35	0.52
6:U:412:ARG:N	6:W:459:LEU:CD1	2.65	0.52
6:U:445:ILE:HG12	6:U:447:SER:N	2.25	0.52
6:U:456:ASN:HD22	6:U:457:PRO:HD2	1.74	0.52
6:U:471:LEU:HD22	6:W:577:VAL:HG12	1.90	0.52
6:U:625:ARG:HH12	6:V:277:ASP:N	2.05	0.52
6:V:577:VAL:HG12	6:W:471:LEU:HD22	1.92	0.52
6:X:497:GLU:H	5:Y:5:MET:CE	2.23	0.52
5:Y:146:ASN:ND2	5:Y:158:LEU:HD21	2.24	0.52
1:A:170:ARG:HB2	1:A:205:PHE:CE2	2.45	0.51
2:B:910:LYS:HZ1	2:B:919:LEU:H	1.57	0.51
4:D:343:GLN:NE2	6:V:54:SER:HG	2.04	0.51
4:D:393:ASP:OD1	6:P:52:GLY:C	2.51	0.51
5:G:214:ARG:HA	5:G:234:ARG:HH21	1.75	0.51
5:H:4:HIS:CE1	6:I:586:VAL:CB	2.93	0.51
5:M:80:ARG:NH1	5:M:81:SER:HA	2.24	0.51
5:M:148:CYS:SG	5:M:271:HIS:HB2	2.49	0.51
6:O:36:LEU:CD2	6:P:242:PHE:CG	2.83	0.51
6:O:368:THR:H	6:O:404:ALA:HB3	1.74	0.51
6:O:418:ASN:CG	6:Q:298:PHE:O	2.53	0.51
6:O:623:LYS:C	6:O:627:ARG:HE	2.17	0.51
6:P:119:VAL:CG2	6:P:131:VAL:HB	2.40	0.51
6:Q:328:THR:HG21	6:Q:451:SER:HB2	1.91	0.51
5:S:49:CYS:O	5:S:52:CYS:SG	2.68	0.51
5:T:24:LEU:HA	5:T:41:VAL:HG22	1.91	0.51
6:V:119:VAL:CG2	6:V:131:VAL:HB	2.39	0.51
6:V:630:LEU:HD11	6:W:275:GLU:CG	2.29	0.51
6:W:368:THR:O	6:W:445:ILE:HG13	2.10	0.51
1:A:134:PHE:CE1	1:A:158:TRP:NE1	2.78	0.51
1:A:855:SER:HA	1:A:875:VAL:O	2.09	0.51
2:B:380:GLU:N	3:C:798:VAL:CG2	2.73	0.51
2:B:480:LEU:HA	2:B:483:VAL:HG22	1.91	0.51
2:B:1178:ARG:HD3	4:D:241:LEU:CD1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:324:ILE:CG1	3:C:325:THR:H	2.22	0.51
3:C:372:ASP:O	3:C:386:GLU:HB2	2.10	0.51
3:C:424:ALA:O	3:C:427:LEU:HG	2.10	0.51
3:C:429:ASN:HB2	3:C:1211:ARG:HD3	1.92	0.51
3:C:682:GLN:HB2	3:C:749:HIS:CE1	2.44	0.51
4:D:267:ILE:HA	4:D:326:LEU:O	2.10	0.51
5:F:120:ALA:HB3	5:F:177:ASP:O	2.11	0.51
5:H:80:ARG:NH1	5:H:81:SER:HA	2.25	0.51
6:I:44:THR:CA	6:J:84:LYS:CE	2.47	0.51
6:I:242:PHE:CG	6:K:36:LEU:CD1	2.84	0.51
6:J:42:ASN:HD22	6:K:235:LEU:HD21	1.41	0.51
6:J:368:THR:O	6:J:445:ILE:HG13	2.11	0.51
6:J:457:PRO:O	6:J:458:THR:HB	2.08	0.51
6:J:567:ARG:NH2	6:J:571:ARG:HH22	2.08	0.51
5:M:180:HIS:CG	5:M:181:PRO:HD2	2.45	0.51
5:N:162:SER:O	5:N:261:ASP:HB3	2.09	0.51
6:O:73:PHE:HE1	6:O:135:VAL:H	1.58	0.51
6:P:47:LEU:HA	6:P:118:TYR:O	2.10	0.51
6:P:100:LYS:NZ	6:W:144:ASN:HD22	2.08	0.51
6:P:637:PHE:HE1	6:Q:545:VAL:HB	1.75	0.51
5:T:5:MET:HG3	6:U:494:THR:HG21	1.91	0.51
6:U:610:THR:HB	6:W:30:ALA:HB2	1.92	0.51
6:V:193:ILE:C	6:W:562:TYR:CD1	2.47	0.51
6:V:647:GLY:O	6:V:648:LYS:O	2.28	0.51
5:Y:80:ARG:NH1	5:Y:81:SER:HA	2.25	0.51
1:A:66:ASN:O	1:A:174:GLY:HA2	2.10	0.51
2:B:816:ALA:O	2:B:820:VAL:HG23	2.11	0.51
4:D:317:GLY:N	4:D:320:GLN:HE22	2.08	0.51
4:E:79:PHE:CZ	4:E:125:TYR:CD2	2.98	0.51
5:F:6:ILE:H	5:F:6:ILE:HD12	1.75	0.51
6:I:36:LEU:CD1	6:J:242:PHE:CG	2.85	0.51
6:I:71:TYR:CE2	6:I:138:SER:HA	2.44	0.51
6:I:418:ASN:CG	6:K:298:PHE:O	2.53	0.51
6:K:368:THR:O	6:K:445:ILE:HG13	2.10	0.51
6:K:647:GLY:O	6:K:648:LYS:O	2.28	0.51
6:O:471:LEU:HD22	6:Q:577:VAL:HG12	1.91	0.51
6:O:640:GLN:NE2	6:P:545:VAL:O	2.44	0.51
5:R:4:HIS:CG	6:V:586:VAL:CG1	2.93	0.51
5:T:80:ARG:NH1	5:T:81:SER:HA	2.25	0.51
6:U:72:SER:OG	6:V:235:LEU:HD12	2.09	0.51
6:U:73:PHE:HE1	6:U:135:VAL:H	1.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:644:LEU:HA	6:W:548:LYS:HE3	1.85	0.51
5:Y:67:ASP:O	5:Y:70:ALA:HB3	2.10	0.51
1:A:831:LEU:HB3	1:A:892:SER:HB3	1.91	0.51
1:A:1159:PRO:HA	1:A:1190:ARG:NH1	2.25	0.51
2:B:235:LEU:HD13	2:B:360:LEU:HD11	1.91	0.51
3:C:262:ARG:HG2	3:C:262:ARG:HH11	1.76	0.51
4:E:195:GLN:HB3	4:E:196:LEU:HD23	1.92	0.51
5:F:133:CYS:SG	5:F:197:VAL:HB	2.51	0.51
5:G:133:CYS:SG	5:G:197:VAL:HB	2.50	0.51
5:G:180:HIS:CG	5:G:181:PRO:HD2	2.45	0.51
6:I:280:LEU:CD1	6:K:622:GLU:C	2.83	0.51
6:I:545:VAL:HB	6:K:637:PHE:HE1	1.76	0.51
6:K:445:ILE:HG12	6:K:447:SER:N	2.24	0.51
5:L:146:ASN:ND2	5:L:158:LEU:HD21	2.24	0.51
5:L:188:ARG:HD2	5:L:196:LEU:H	1.76	0.51
5:N:180:HIS:CG	5:N:181:PRO:HD2	2.45	0.51
6:O:279:PRO:C	6:Q:622:GLU:HG2	2.33	0.51
6:O:295:ARG:HH11	6:O:298:PHE:HB2	1.74	0.51
6:P:368:THR:H	6:P:404:ALA:HB3	1.75	0.51
6:P:368:THR:O	6:P:445:ILE:HG13	2.10	0.51
6:Q:647:GLY:O	6:Q:648:LYS:O	2.29	0.51
5:S:24:LEU:HA	5:S:41:VAL:HG22	1.92	0.51
5:S:167:LEU:O	5:S:189:CYS:SG	2.67	0.51
6:U:280:LEU:CD1	6:W:622:GLU:C	2.84	0.51
6:U:368:THR:O	6:U:445:ILE:HG13	2.11	0.51
6:V:36:LEU:CD2	6:W:242:PHE:CB	2.23	0.51
6:W:119:VAL:CG2	6:W:131:VAL:HB	2.41	0.51
6:X:184:LYS:HA	6:X:648:LYS:HZ2	1.75	0.51
1:A:478:ARG:HA	1:A:478:ARG:HE	1.73	0.51
2:B:195:ILE:HG22	2:B:310:LYS:HG2	1.93	0.51
2:B:704:THR:O	2:B:707:PHE:HB3	2.10	0.51
2:B:1213:ALA:HA	3:C:552:ASP:OD1	2.04	0.51
3:C:333:PHE:CE2	3:C:338:GLU:HB3	2.46	0.51
3:C:1017:PHE:CD1	3:C:1047:TYR:CD2	2.99	0.51
4:E:166:MET:HE3	4:E:170:THR:HB	1.92	0.51
5:G:37:HIS:CD2	5:G:66:GLN:HB3	2.45	0.51
5:H:142:ALA:HA	5:H:145:ARG:HB2	1.91	0.51
6:I:161:LYS:CA	6:J:534:SER:OG	2.59	0.51
6:I:275:GLU:HB3	6:K:630:LEU:HD13	1.92	0.51
6:I:300:LYS:HE2	6:J:418:ASN:ND2	2.20	0.51
6:J:317:ARG:HA	6:J:330:GLN:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:193:ILE:O	6:K:194:LEU:C	2.49	0.51
5:M:37:HIS:CD2	5:M:66:GLN:HB3	2.45	0.51
6:O:351:LEU:HD13	6:O:464:LEU:HD13	1.92	0.51
6:P:153:MET:HA	6:P:156:VAL:HG12	1.92	0.51
6:P:634:LYS:O	6:P:637:PHE:HB3	2.11	0.51
5:R:80:ARG:NH1	5:R:81:SER:HA	2.25	0.51
6:U:418:ASN:CG	6:W:298:PHE:O	2.52	0.51
6:U:640:GLN:NE2	6:V:545:VAL:O	2.43	0.51
6:V:298:PHE:CE1	6:W:416:ARG:CA	2.93	0.51
6:V:368:THR:H	6:V:404:ALA:HB3	1.76	0.51
6:V:634:LYS:O	6:V:637:PHE:HB3	2.10	0.51
5:Y:184:LYS:O	5:Y:199:ASP:HA	2.10	0.51
1:A:173:ALA:HB1	1:A:201:TYR:HB3	1.92	0.51
1:A:452:TYR:HB2	1:A:670:SER:O	2.11	0.51
1:A:1089:TYR:CD2	1:A:1096:PHE:CD2	2.99	0.51
2:B:277:VAL:HG12	2:B:296:ASN:OD1	2.11	0.51
2:B:577:SER:O	2:B:579:PRO:HD3	2.11	0.51
5:F:180:HIS:CG	5:F:181:PRO:HD2	2.45	0.51
5:G:131:ARG:NE	6:I:448:PRO:HG2	2.26	0.51
5:H:133:CYS:SG	5:H:197:VAL:HB	2.51	0.51
6:I:50:PRO:HD3	6:I:118:TYR:HE1	1.76	0.51
6:I:248:GLU:OE2	6:K:151:ALA:HA	2.11	0.51
6:I:625:ARG:HH12	6:J:277:ASP:N	2.05	0.51
6:I:640:GLN:NE2	6:J:545:VAL:O	2.44	0.51
6:J:111:PHE:CE2	6:J:145:LEU:HB2	2.46	0.51
6:K:187:LEU:O	6:K:190:ALA:HB3	2.11	0.51
6:O:242:PHE:CB	6:Q:36:LEU:CD2	2.23	0.51
6:O:242:PHE:CG	6:Q:36:LEU:CD1	2.83	0.51
6:O:275:GLU:HB3	6:Q:630:LEU:HD13	1.91	0.51
6:O:295:ARG:CZ	6:P:419:MET:CB	2.59	0.51
6:P:619:ASP:OD1	6:Q:284:VAL:HG12	1.94	0.51
6:P:625:ARG:CD	6:Q:278:THR:OG1	2.59	0.51
6:P:647:GLY:O	6:P:648:LYS:O	2.29	0.51
5:S:192:THR:C	6:U:364:PRO:CB	2.71	0.51
6:U:351:LEU:HD13	6:U:464:LEU:HD13	1.92	0.51
6:U:622:GLU:HG2	6:V:281:PRO:HD3	1.91	0.51
6:V:36:LEU:CD2	6:W:253:VAL:CG1	2.83	0.51
6:V:459:LEU:HD23	6:W:412:ARG:HH12	1.75	0.51
6:V:530:ARG:H	6:W:472:ARG:HD2	1.59	0.51
6:W:634:LYS:O	6:W:637:PHE:HB3	2.09	0.51
6:X:368:THR:H	6:X:404:ALA:HB3	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:133:CYS:SG	5:Y:197:VAL:HB	2.51	0.51
5:Y:162:SER:O	5:Y:261:ASP:HB3	2.10	0.51
1:A:934:ASN:O	1:A:967:TYR:HA	2.10	0.51
2:B:404:MET:CE	4:D:46:ILE:CB	2.68	0.51
2:B:881:VAL:N	4:D:31:GLY:O	2.37	0.51
3:C:795:ASP:CA	4:D:251:ASN:CG	2.84	0.51
4:D:1:MET:HE1	4:D:293:VAL:HA	1.92	0.51
4:D:35:ARG:HB3	4:D:37:TRP:HE3	1.76	0.51
4:D:317:GLY:HA3	4:D:320:GLN:OE1	2.11	0.51
4:E:39:SER:HB3	4:E:191:ARG:CZ	2.41	0.51
6:I:368:THR:O	6:I:445:ILE:HG13	2.11	0.51
6:K:351:LEU:HD13	6:K:464:LEU:HD13	1.92	0.51
5:L:180:HIS:CG	5:L:181:PRO:HD2	2.44	0.51
5:N:131:ARG:NE	6:P:448:PRO:HG2	2.23	0.51
6:O:281:PRO:HG2	6:Q:619:ASP:HA	1.92	0.51
6:O:412:ARG:NE	6:Q:458:THR:HA	2.05	0.51
6:O:610:THR:HB	6:Q:30:ALA:HB2	1.90	0.51
6:Q:187:LEU:O	6:Q:190:ALA:HB3	2.11	0.51
5:R:124:ASP:HA	5:R:134:ASP:OD2	2.11	0.51
5:S:180:HIS:CG	5:S:181:PRO:HD2	2.45	0.51
6:U:111:PHE:CE2	6:U:145:LEU:HB2	2.45	0.51
6:U:530:ARG:H	6:V:472:ARG:HD2	1.67	0.51
6:U:562:TYR:HH	6:W:193:ILE:HB	1.68	0.51
6:U:647:GLY:O	6:U:648:LYS:O	2.29	0.51
6:X:47:LEU:HA	6:X:118:TYR:O	2.10	0.51
5:Y:188:ARG:HD2	5:Y:196:LEU:H	1.76	0.51
1:A:214:SER:HA	1:A:217:LEU:HD12	1.93	0.51
3:C:211:PRO:HA	3:C:238:GLY:HA2	1.92	0.51
3:C:292:ALA:O	3:C:295:SER:HB2	2.11	0.51
3:C:883:ARG:HB3	3:C:886:ASP:OD2	2.10	0.51
5:F:162:SER:O	5:F:261:ASP:HB3	2.10	0.51
5:F:176:LEU:HD22	5:F:185:VAL:CG2	2.40	0.51
6:I:44:THR:HG21	6:J:84:LYS:NZ	1.86	0.51
6:I:281:PRO:HG3	6:K:622:GLU:OE1	2.11	0.51
6:I:295:ARG:NH2	6:J:354:SER:HB3	2.09	0.51
6:I:458:THR:H	6:J:412:ARG:HD3	1.62	0.51
6:I:622:GLU:HG2	6:J:281:PRO:HD3	1.93	0.51
6:J:328:THR:HG21	6:J:451:SER:HB2	1.91	0.51
6:J:625:ARG:CD	6:K:278:THR:OG1	2.59	0.51
6:J:647:GLY:O	6:J:648:LYS:O	2.29	0.51
5:M:120:ALA:HB3	5:M:177:ASP:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:124:ASP:HA	5:N:134:ASP:OD2	2.11	0.51
6:Q:114:THR:HA	6:Q:134:GLY:O	2.11	0.51
5:T:176:LEU:HD22	5:T:185:VAL:CG2	2.40	0.51
5:T:188:ARG:HD2	5:T:196:LEU:H	1.76	0.51
5:T:214:ARG:HA	5:T:234:ARG:HH21	1.75	0.51
6:U:299:ILE:HD13	6:V:419:MET:HE1	1.83	0.51
6:W:114:THR:HA	6:W:134:GLY:O	2.11	0.51
6:X:71:TYR:CE2	6:X:138:SER:HA	2.45	0.51
6:X:80:GLU:O	6:X:84:LYS:HG2	2.10	0.51
2:B:868:ARG:HG3	2:B:879:PHE:CD1	2.46	0.51
3:C:594:ALA:C	3:C:596:PRO:HD2	2.36	0.51
4:D:152:ASP:OD1	6:P:53:THR:HG21	2.09	0.51
4:E:54:TRP:CD1	4:E:59:PRO:HB3	2.45	0.51
4:E:271:SER:HB2	4:E:328:TYR:HD1	1.75	0.51
5:F:24:LEU:HA	5:F:41:VAL:HG22	1.92	0.51
6:I:368:THR:H	6:I:404:ALA:HB3	1.76	0.51
6:I:622:GLU:CD	6:J:281:PRO:HD3	2.36	0.51
6:J:28:SER:CB	6:K:606:THR:HG22	2.25	0.51
6:K:119:VAL:CG2	6:K:131:VAL:HB	2.39	0.51
6:K:312:ASN:HB2	6:K:333:PRO:HA	1.93	0.51
5:L:24:LEU:HA	5:L:41:VAL:HG22	1.93	0.51
5:L:133:CYS:SG	5:L:197:VAL:HB	2.50	0.51
5:M:24:LEU:HA	5:M:41:VAL:HG22	1.93	0.51
5:M:93:LEU:HD12	5:M:178:ASP:HB3	1.93	0.51
5:N:188:ARG:HD2	5:N:196:LEU:H	1.75	0.51
6:O:193:ILE:CG2	6:P:561:ASP:HB2	2.40	0.51
6:O:242:PHE:HZ	6:Q:82:PHE:HE2	1.51	0.51
6:O:634:LYS:O	6:O:637:PHE:HB3	2.10	0.51
6:P:36:LEU:O	6:Q:253:VAL:CG1	2.59	0.51
6:P:71:TYR:CE2	6:P:138:SER:HA	2.46	0.51
6:Q:368:THR:H	6:Q:404:ALA:HB3	1.76	0.51
5:S:146:ASN:ND2	5:S:158:LEU:HD21	2.25	0.51
6:U:269:LYS:HE2	6:U:513:HIS:HB3	1.93	0.51
6:U:622:GLU:CD	6:V:281:PRO:HD3	2.36	0.51
6:W:351:LEU:HD13	6:W:464:LEU:HD13	1.92	0.51
6:W:647:GLY:O	6:W:648:LYS:O	2.28	0.51
6:X:153:MET:HA	6:X:156:VAL:HG12	1.92	0.51
6:X:368:THR:O	6:X:445:ILE:HG13	2.10	0.51
4:D:187:GLN:HA	4:D:190:TYR:CD2	2.46	0.51
4:D:363:ALA:O	4:D:366:ILE:HG13	2.11	0.51
4:D:392:ALA:CB	6:P:49:ARG:HH21	2.17	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:393:ASP:OD1	6:P:53:THR:C	2.54	0.51
4:E:174:LEU:HA	4:E:177:TYR:CD1	2.46	0.51
4:E:240:ALA:HB1	4:E:334:ALA:CB	2.41	0.51
4:E:335:ALA:C	6:U:55:VAL:CA	2.84	0.51
5:H:93:LEU:HD12	5:H:178:ASP:HB3	1.93	0.51
6:I:170:LEU:N	6:J:541:SER:CB	2.72	0.51
6:I:545:VAL:HG11	6:K:641:ILE:HG13	0.55	0.51
6:I:622:GLU:HB3	6:J:280:LEU:HA	1.93	0.51
6:I:634:LYS:O	6:I:637:PHE:HB3	2.10	0.51
6:I:647:GLY:O	6:I:648:LYS:O	2.28	0.51
6:J:165:THR:CA	6:K:537:SER:OG	2.54	0.51
6:J:407:LEU:HB3	6:J:418:ASN:HB3	1.92	0.51
6:J:411:VAL:HB	6:J:412:ARG:HH21	1.76	0.51
6:K:328:THR:HG21	6:K:451:SER:HB2	1.92	0.51
6:O:280:LEU:CD1	6:Q:622:GLU:C	2.84	0.51
6:P:530:ARG:NH2	6:Q:482:ASP:OD1	2.43	0.51
6:Q:634:LYS:O	6:Q:637:PHE:HB3	2.10	0.51
5:S:191:LYS:C	6:U:364:PRO:HB3	2.30	0.51
5:T:133:CYS:SG	5:T:197:VAL:HB	2.51	0.51
6:U:281:PRO:HG3	6:W:622:GLU:OE1	2.10	0.51
6:U:281:PRO:CB	6:W:618:THR:HB	2.41	0.51
6:U:295:ARG:HH11	6:U:298:PHE:HB2	1.75	0.51
6:U:529:SER:CB	6:V:473:GLU:HA	2.40	0.51
6:U:530:ARG:HA	6:V:472:ARG:HG3	1.90	0.51
6:U:545:VAL:CG1	6:W:640:GLN:CD	2.58	0.51
6:V:34:ILE:C	6:W:256:SER:HG	2.07	0.51
6:V:269:LYS:HE2	6:V:513:HIS:HB3	1.93	0.51
6:V:312:ASN:HB2	6:V:333:PRO:HA	1.93	0.51
6:W:328:THR:HG21	6:W:451:SER:HB2	1.93	0.51
6:X:317:ARG:HA	6:X:330:GLN:HA	1.92	0.51
6:X:494:THR:C	5:Y:5:MET:CE	2.84	0.51
1:A:188:PRO:HA	1:A:330:MET:SD	2.51	0.50
2:B:1213:ALA:O	3:C:552:ASP:HB3	2.11	0.50
3:C:318:THR:O	3:C:329:MET:HA	2.11	0.50
4:D:175:MET:SD	4:D:250:TRP:CD2	3.05	0.50
5:F:4:HIS:ND1	6:J:586:VAL:CG1	2.71	0.50
6:I:412:ARG:HB2	6:K:459:LEU:HD12	1.30	0.50
6:I:537:SER:CA	6:K:168:THR:OG1	2.57	0.50
6:K:114:THR:HA	6:K:134:GLY:O	2.11	0.50
5:L:4:HIS:ND1	6:P:586:VAL:CG1	2.71	0.50
5:L:131:ARG:NE	6:Q:448:PRO:HG2	2.19	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:120:ALA:HB3	5:N:177:ASP:O	2.09	0.50
6:O:312:ASN:HB2	6:O:333:PRO:HA	1.93	0.50
6:O:606:THR:HG23	6:Q:173:ASP:OD2	2.06	0.50
6:P:350:THR:HB	6:P:465:THR:O	2.12	0.50
6:P:457:PRO:O	6:P:458:THR:HB	2.11	0.50
6:Q:457:PRO:O	6:Q:458:THR:HB	2.11	0.50
5:R:37:HIS:CD2	5:R:66:GLN:HB3	2.45	0.50
6:U:328:THR:HG21	6:U:451:SER:HB2	1.92	0.50
6:V:47:LEU:HA	6:V:118:TYR:O	2.11	0.50
6:V:50:PRO:HD3	6:V:118:TYR:HE1	1.76	0.50
6:V:328:THR:HG21	6:V:451:SER:HB2	1.91	0.50
6:V:627:ARG:CG	6:W:272:ASP:OD1	2.50	0.50
6:X:114:THR:HA	6:X:134:GLY:O	2.11	0.50
6:X:269:LYS:HE2	6:X:513:HIS:HB3	1.93	0.50
2:B:409:MET:HG2	2:B:409:MET:O	2.11	0.50
2:B:582:PRO:HD3	2:B:650:TRP:CZ2	2.46	0.50
3:C:324:ILE:HG13	3:C:325:THR:H	1.77	0.50
5:F:122:SER:O	5:F:176:LEU:HD11	2.11	0.50
5:G:4:HIS:CG	6:K:586:VAL:CG1	2.94	0.50
5:G:4:HIS:HB3	6:K:586:VAL:CG2	2.03	0.50
5:G:24:LEU:HA	5:G:41:VAL:HG22	1.93	0.50
5:H:180:HIS:CG	5:H:181:PRO:HD2	2.45	0.50
6:I:36:LEU:CD2	6:J:242:PHE:CG	2.84	0.50
6:J:312:ASN:HB2	6:J:333:PRO:HA	1.93	0.50
6:K:47:LEU:HA	6:K:118:TYR:O	2.11	0.50
5:M:6:ILE:HD12	5:M:6:ILE:H	1.75	0.50
5:M:162:SER:O	5:M:261:ASP:HB3	2.10	0.50
5:M:207:VAL:HA	5:M:240:PRO:O	2.10	0.50
6:O:36:LEU:CG	6:P:242:PHE:HB3	2.26	0.50
6:O:368:THR:O	6:O:445:ILE:HG13	2.11	0.50
6:P:630:LEU:HD11	6:Q:275:GLU:CG	2.30	0.50
5:R:188:ARG:HD2	5:R:196:LEU:H	1.76	0.50
5:S:147:HIS:HA	5:S:269:ASP:OD2	2.11	0.50
6:U:36:LEU:CD2	6:V:242:PHE:CG	2.84	0.50
6:U:47:LEU:HA	6:U:118:TYR:O	2.12	0.50
6:U:242:PHE:HB3	6:W:36:LEU:CG	2.27	0.50
6:U:300:LYS:HE2	6:V:418:ASN:ND2	2.20	0.50
6:V:407:LEU:HB3	6:V:418:ASN:HB3	1.92	0.50
3:C:491:THR:O	3:C:494:THR:HB	2.11	0.50
4:D:8:GLY:O	4:D:119:LEU:HD22	2.11	0.50
4:E:183:ALA:HB2	4:E:245:GLN:HE22	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:4:HIS:HB2	6:K:586:VAL:CG1	2.42	0.50
5:H:49:CYS:O	5:H:52:CYS:SG	2.68	0.50
5:H:130:PHE:CG	6:J:446:PRO:HB2	2.45	0.50
6:K:295:ARG:HH11	6:K:298:PHE:CB	2.25	0.50
6:K:623:LYS:C	6:K:627:ARG:HE	2.19	0.50
5:M:167:LEU:O	5:M:189:CYS:SG	2.67	0.50
5:M:176:LEU:HD22	5:M:185:VAL:CG2	2.41	0.50
5:N:167:LEU:O	5:N:189:CYS:SG	2.67	0.50
6:O:630:LEU:HD11	6:P:275:GLU:CG	2.26	0.50
6:P:187:LEU:O	6:P:190:ALA:HB3	2.11	0.50
6:P:295:ARG:NH2	6:Q:354:SER:HB3	2.13	0.50
6:P:567:ARG:NH2	6:P:571:ARG:HH22	2.08	0.50
6:X:315:LEU:HA	6:X:331:LEU:O	2.12	0.50
6:X:350:THR:HB	6:X:465:THR:O	2.11	0.50
1:A:1153:ALA:O	1:A:1192:LEU:HB3	2.10	0.50
2:B:310:LYS:CG	2:B:399:ARG:NH1	2.74	0.50
2:B:409:MET:HE1	2:B:443:PRO:O	2.06	0.50
2:B:414:THR:O	2:B:418:GLN:HG3	2.12	0.50
3:C:344:TYR:HB3	3:C:368:ILE:HD13	1.92	0.50
6:J:315:LEU:HA	6:J:331:LEU:O	2.12	0.50
6:J:368:THR:H	6:J:404:ALA:HB3	1.76	0.50
6:J:456:ASN:HD22	6:J:457:PRO:HD2	1.76	0.50
6:K:71:TYR:CE2	6:K:138:SER:HA	2.45	0.50
6:O:281:PRO:HG3	6:Q:622:GLU:OE1	2.12	0.50
6:O:357:ILE:HG21	6:O:408:ALA:HB2	1.94	0.50
6:P:73:PHE:HE1	6:P:135:VAL:H	1.57	0.50
6:P:312:ASN:HB2	6:P:333:PRO:HA	1.93	0.50
6:P:328:THR:HG21	6:P:451:SER:HB2	1.93	0.50
5:R:176:LEU:HD22	5:R:185:VAL:CG2	2.40	0.50
5:S:122:SER:O	5:S:176:LEU:HD11	2.11	0.50
6:U:457:PRO:C	6:V:412:ARG:CD	2.68	0.50
6:V:43:PRO:HA	6:W:84:LYS:HE2	1.91	0.50
6:X:647:GLY:O	6:X:648:LYS:O	2.28	0.50
2:B:199:GLY:H	2:B:331:ARG:NH1	2.10	0.50
3:C:898:ALA:HA	3:C:901:ILE:HD12	1.94	0.50
6:I:232:ALA:HB2	6:K:66:ASP:C	2.35	0.50
6:I:350:THR:HB	6:I:465:THR:O	2.11	0.50
5:L:194:LEU:HD21	6:Q:447:SER:HB2	1.84	0.50
5:M:192:THR:C	6:O:364:PRO:CB	2.71	0.50
5:N:207:VAL:HB	5:N:245:LEU:HD11	1.93	0.50
5:N:214:ARG:HA	5:N:234:ARG:HH21	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:184:LYS:HA	6:O:648:LYS:HZ2	1.76	0.50
6:O:248:GLU:OE2	6:Q:151:ALA:HA	2.11	0.50
6:O:269:LYS:HE2	6:O:513:HIS:HB3	1.93	0.50
5:R:93:LEU:HD12	5:R:178:ASP:HB3	1.94	0.50
5:S:133:CYS:SG	5:S:197:VAL:HB	2.51	0.50
6:V:71:TYR:CE2	6:V:138:SER:HA	2.45	0.50
6:V:295:ARG:NH2	6:W:354:SER:HB3	2.14	0.50
6:W:47:LEU:HA	6:W:118:TYR:O	2.11	0.50
6:W:184:LYS:HA	6:W:648:LYS:HZ2	1.75	0.50
6:X:567:ARG:NH2	6:X:571:ARG:HH22	2.08	0.50
1:A:60:GLN:HA	1:A:176:LYS:O	2.12	0.50
2:B:223:THR:HA	2:B:1152:ALA:CB	2.41	0.50
2:B:353:GLN:NE2	3:C:1020:ILE:O	2.45	0.50
2:B:441:LEU:O	2:B:1202:PRO:HD2	2.12	0.50
2:B:851:PHE:HA	2:B:854:ASN:HD22	1.76	0.50
3:C:535:TRP:CH2	3:C:677:TYR:CD2	3.00	0.50
3:C:1170:PRO:HD2	3:C:1189:THR:HG23	1.93	0.50
4:E:1:MET:HE3	4:E:2:ALA:H	1.76	0.50
5:G:5:MET:HE1	6:K:494:THR:HG1	1.75	0.50
5:H:176:LEU:HD22	5:H:185:VAL:CG2	2.40	0.50
6:I:161:LYS:HZ1	6:J:533:ASP:C	2.19	0.50
6:I:269:LYS:HE2	6:I:513:HIS:HB3	1.94	0.50
6:O:350:THR:HB	6:O:465:THR:O	2.12	0.50
6:P:36:LEU:CD2	6:Q:253:VAL:CG1	2.83	0.50
6:P:315:LEU:HA	6:P:331:LEU:O	2.11	0.50
5:R:249:CYS:SG	5:R:250:HIS:N	2.85	0.50
5:T:4:HIS:CE1	6:U:586:VAL:CG2	2.70	0.50
6:V:44:THR:HG1	6:W:87:PHE:HE1	1.58	0.50
6:V:315:LEU:HA	6:V:331:LEU:O	2.11	0.50
6:V:622:GLU:OE1	6:W:281:PRO:CD	2.59	0.50
6:V:625:ARG:CD	6:W:278:THR:OG1	2.59	0.50
6:X:328:THR:HG21	6:X:451:SER:HB2	1.92	0.50
1:A:377:ARG:CD	6:I:51:VAL:HG21	2.42	0.50
1:A:644:LEU:HD23	1:A:645:VAL:N	2.27	0.50
3:C:294:ARG:HB2	3:C:890:GLN:HB2	1.94	0.50
5:F:207:VAL:HA	5:F:240:PRO:O	2.11	0.50
5:F:249:CYS:SG	5:F:250:HIS:N	2.85	0.50
6:I:281:PRO:CB	6:K:618:THR:HB	2.42	0.50
6:J:153:MET:HA	6:J:156:VAL:HG12	1.92	0.50
6:J:530:ARG:NH2	6:K:482:ASP:OD1	2.43	0.50
6:K:184:LYS:HA	6:K:648:LYS:HZ2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:122:SER:O	5:N:176:LEU:HD11	2.12	0.50
6:O:47:LEU:HA	6:O:118:TYR:O	2.11	0.50
6:O:328:THR:HG21	6:O:451:SER:HB2	1.93	0.50
6:O:459:LEU:HD23	6:P:412:ARG:NH1	2.27	0.50
6:Q:269:LYS:HE2	6:Q:513:HIS:HB3	1.93	0.50
5:R:122:SER:O	5:R:176:LEU:HD11	2.12	0.50
5:S:44:GLY:HA3	6:U:400:ALA:C	2.16	0.50
6:U:161:LYS:HZ3	6:V:534:SER:N	2.03	0.50
6:U:242:PHE:HB3	6:W:36:LEU:HD21	0.62	0.50
6:V:153:MET:HA	6:V:156:VAL:HG12	1.93	0.50
6:V:351:LEU:HD13	6:V:464:LEU:HD13	1.93	0.50
6:W:269:LYS:HE2	6:W:513:HIS:HB3	1.94	0.50
1:A:207:TYR:CD1	1:A:213:ARG:HB2	2.46	0.50
1:A:313:LEU:C	1:A:318:VAL:HG22	2.37	0.50
2:B:408:SER:HB2	4:D:191:ARG:HH22	1.66	0.50
2:B:979:ARG:HH11	2:B:979:ARG:HB2	1.77	0.50
2:B:1003:PRO:HB2	2:B:1011:VAL:HG21	1.94	0.50
2:B:1103:TRP:O	2:B:1107:ILE:HG13	2.12	0.50
3:C:1039:ARG:HA	3:C:1039:ARG:NE	2.26	0.50
3:C:1085:LEU:HD22	3:C:1119:ILE:HD11	1.94	0.50
4:E:335:ALA:O	6:U:55:VAL:C	2.54	0.50
5:H:249:CYS:SG	5:H:250:HIS:N	2.85	0.50
6:I:114:THR:HA	6:I:134:GLY:O	2.11	0.50
6:I:357:ILE:HG21	6:I:408:ALA:HB2	1.94	0.50
6:I:529:SER:CB	6:J:473:GLU:HA	2.40	0.50
6:J:114:THR:HA	6:J:134:GLY:O	2.11	0.50
6:J:351:LEU:HD13	6:J:464:LEU:HD13	1.92	0.50
6:J:357:ILE:HG21	6:J:408:ALA:HB2	1.94	0.50
6:J:472:ARG:HH11	6:J:472:ARG:HA	1.77	0.50
6:O:562:TYR:H	6:O:562:TYR:HD1	1.56	0.50
6:P:456:ASN:CB	6:Q:412:ARG:HG3	2.31	0.50
6:Q:50:PRO:HD3	6:Q:118:TYR:HE1	1.77	0.50
5:S:249:CYS:SG	5:S:250:HIS:N	2.85	0.50
5:T:93:LEU:HD12	5:T:178:ASP:HB3	1.94	0.50
6:U:350:THR:HB	6:U:465:THR:O	2.12	0.50
6:U:412:ARG:HB2	6:W:459:LEU:HB2	1.91	0.50
6:U:456:ASN:CG	6:V:412:ARG:CD	2.73	0.50
6:U:459:LEU:CD1	6:V:414:GLN:H	2.24	0.50
6:U:537:SER:CA	6:W:168:THR:OG1	2.59	0.50
1:A:785:LEU:O	1:A:788:GLN:HG2	2.11	0.50
1:A:1143:GLN:HA	1:A:1143:GLN:NE2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:784:LEU:HD21	2:B:806:THR:HG22	1.94	0.50
4:E:163:VAL:HG12	4:E:259:PRO:HG2	1.94	0.50
5:F:147:HIS:HA	5:F:269:ASP:OD2	2.12	0.50
5:G:130:PHE:CD1	6:I:446:PRO:HB2	2.47	0.50
6:I:87:PHE:HE1	6:K:44:THR:HG1	1.58	0.50
6:J:269:LYS:HE2	6:J:513:HIS:HB3	1.94	0.50
6:K:315:LEU:HA	6:K:331:LEU:O	2.12	0.50
5:L:122:SER:O	5:L:176:LEU:HD11	2.12	0.50
6:Q:184:LYS:HA	6:Q:648:LYS:HZ2	1.76	0.50
5:R:24:LEU:HA	5:R:41:VAL:HG22	1.92	0.50
6:U:154:ARG:NH1	6:V:246:THR:C	2.55	0.50
6:U:248:GLU:OE2	6:W:151:ALA:HA	2.11	0.50
6:U:529:SER:N	6:V:283:SER:CA	2.71	0.50
6:W:623:LYS:O	6:W:627:ARG:HG3	2.12	0.50
5:Y:122:SER:O	5:Y:176:LEU:HD11	2.12	0.50
5:Y:176:LEU:HD22	5:Y:185:VAL:CG2	2.40	0.50
2:B:1013:VAL:HG12	2:B:1046:VAL:HB	1.93	0.49
4:D:393:ASP:OD1	6:P:53:THR:HA	2.11	0.49
5:H:131:ARG:NE	6:J:448:PRO:HG2	2.23	0.49
6:J:36:LEU:O	6:K:253:VAL:CG1	2.59	0.49
6:J:47:LEU:HA	6:J:118:TYR:O	2.11	0.49
5:M:214:ARG:HA	5:M:234:ARG:HH21	1.76	0.49
5:N:4:HIS:HB3	6:O:586:VAL:HG11	1.94	0.49
6:O:623:LYS:O	6:O:627:ARG:HG3	2.12	0.49
6:P:114:THR:HA	6:P:134:GLY:O	2.12	0.49
6:P:298:PHE:CE1	6:Q:416:ARG:CA	2.94	0.49
6:P:623:LYS:O	6:P:627:ARG:HG3	2.12	0.49
5:R:51:PHE:O	5:R:66:GLN:HG3	2.12	0.49
5:S:93:LEU:HD12	5:S:178:ASP:HB3	1.94	0.49
5:S:188:ARG:HD2	5:S:196:LEU:H	1.75	0.49
6:V:70:GLN:HA	6:V:136:PHE:CG	2.47	0.49
6:V:73:PHE:HE1	6:V:135:VAL:H	1.59	0.49
6:V:350:THR:HB	6:V:465:THR:O	2.12	0.49
6:V:623:LYS:O	6:V:627:ARG:HG3	2.12	0.49
6:W:50:PRO:HD3	6:W:118:TYR:HE1	1.77	0.49
6:X:270:ASP:O	6:X:272:ASP:N	2.45	0.49
5:Y:124:ASP:HA	5:Y:134:ASP:OD2	2.12	0.49
1:A:1184:VAL:HG22	1:A:1185:THR:HG23	1.95	0.49
1:A:1252:SER:HB2	1:A:1294:TYR:CE2	2.48	0.49
2:B:954:PRO:CB	2:B:959:ARG:HH22	2.25	0.49
3:C:404:MET:HE1	4:E:172:ALA:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:980:GLY:O	3:C:1078:LEU:HB2	2.13	0.49
5:F:214:ARG:HA	5:F:234:ARG:HH21	1.76	0.49
5:G:122:SER:O	5:G:176:LEU:HD11	2.12	0.49
5:H:188:ARG:HD2	5:H:196:LEU:H	1.75	0.49
6:I:418:ASN:ND2	6:K:300:LYS:HE2	2.16	0.49
6:I:472:ARG:HG3	6:K:530:ARG:HA	1.90	0.49
6:I:610:THR:HB	6:K:30:ALA:HB2	1.93	0.49
6:J:298:PHE:CE1	6:K:416:ARG:CA	2.94	0.49
6:J:622:GLU:OE1	6:K:281:PRO:CD	2.59	0.49
6:K:357:ILE:HG21	6:K:408:ALA:HB2	1.94	0.49
5:L:93:LEU:HD12	5:L:178:ASP:HB3	1.94	0.49
5:L:207:VAL:HB	5:L:245:LEU:HD11	1.94	0.49
5:L:214:ARG:HA	5:L:234:ARG:HH21	1.75	0.49
5:M:4:HIS:CG	6:Q:586:VAL:HG21	1.89	0.49
5:N:5:MET:HG3	6:O:494:THR:HG21	1.92	0.49
5:S:124:ASP:HA	5:S:134:ASP:OD2	2.12	0.49
6:U:409:ILE:O	6:W:459:LEU:HD21	2.12	0.49
6:U:416:ARG:HA	6:W:298:PHE:CE1	2.46	0.49
6:V:637:PHE:HE1	6:W:545:VAL:HB	1.77	0.49
6:X:50:PRO:HD3	6:X:118:TYR:HE1	1.76	0.49
1:A:306:ARG:HD2	1:A:341:MET:SD	2.52	0.49
2:B:355:LYS:HG3	2:B:1153:SER:O	2.12	0.49
2:B:510:PRO:O	2:B:514:ILE:HG13	2.12	0.49
4:D:161:VAL:HG23	4:D:263:GLN:HB2	1.93	0.49
5:G:147:HIS:HA	5:G:269:ASP:OD2	2.12	0.49
5:G:188:ARG:HD2	5:G:196:LEU:H	1.76	0.49
5:H:4:HIS:HB3	6:I:586:VAL:HG11	1.94	0.49
5:H:207:VAL:HB	5:H:245:LEU:HD11	1.94	0.49
6:I:32:PRO:CG	6:J:609:ARG:C	2.76	0.49
6:I:73:PHE:HE1	6:I:135:VAL:H	1.58	0.49
6:I:270:ASP:O	6:I:272:ASP:N	2.45	0.49
6:I:459:LEU:CD1	6:J:414:GLN:H	2.25	0.49
6:J:70:GLN:HA	6:J:136:PHE:CG	2.47	0.49
6:J:270:ASP:O	6:J:272:ASP:N	2.45	0.49
6:J:350:THR:HB	6:J:465:THR:O	2.12	0.49
5:M:130:PHE:CD1	6:O:446:PRO:HB2	2.47	0.49
5:M:133:CYS:SG	5:M:197:VAL:HB	2.51	0.49
6:O:84:LYS:NZ	6:Q:44:THR:OG1	2.26	0.49
6:O:416:ARG:HA	6:Q:298:PHE:CE1	2.47	0.49
5:R:214:ARG:HA	5:R:234:ARG:HH21	1.77	0.49
5:S:4:HIS:CG	6:W:586:VAL:CG1	2.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:246:THR:HB	6:W:154:ARG:HH12	1.73	0.49
6:U:281:PRO:CG	6:W:622:GLU:OE1	2.60	0.49
6:U:622:GLU:HB3	6:V:280:LEU:HA	1.95	0.49
6:V:357:ILE:HG21	6:V:408:ALA:HB2	1.94	0.49
6:W:153:MET:HA	6:W:156:VAL:HG12	1.93	0.49
6:W:357:ILE:HG21	6:W:408:ALA:HB2	1.94	0.49
6:X:351:LEU:HD13	6:X:464:LEU:HD13	1.93	0.49
5:Y:24:LEU:HA	5:Y:41:VAL:HG22	1.93	0.49
1:A:69:SER:H	1:A:70:PRO:HD2	1.76	0.49
1:A:242:PRO:HB3	1:A:257:GLN:HB2	1.93	0.49
1:A:1180:LYS:O	1:A:1194:PHE:HA	2.12	0.49
2:B:436:LEU:HD11	4:D:175:MET:HG3	1.93	0.49
3:C:1015:GLY:O	3:C:1016:ARG:HB2	2.12	0.49
4:D:74:ALA:O	4:D:78:PRO:HD2	2.12	0.49
5:G:49:CYS:O	5:G:52:CYS:SG	2.68	0.49
5:H:167:LEU:O	5:H:189:CYS:SG	2.68	0.49
6:I:16:ASP:H	6:I:222:ASN:HB3	1.78	0.49
6:I:82:PHE:HE2	6:J:242:PHE:CZ	2.21	0.49
6:J:637:PHE:HE1	6:K:545:VAL:HB	1.76	0.49
6:K:350:THR:HB	6:K:465:THR:O	2.12	0.49
6:K:457:PRO:O	6:K:458:THR:HB	2.12	0.49
5:M:4:HIS:CG	6:Q:586:VAL:CG1	2.94	0.49
5:M:207:VAL:HB	5:M:245:LEU:HD11	1.94	0.49
5:N:93:LEU:HD12	5:N:178:ASP:HB3	1.94	0.49
6:O:32:PRO:CG	6:P:609:ARG:C	2.77	0.49
6:O:47:LEU:HD21	6:O:116:SER:C	2.38	0.49
6:O:232:ALA:HB1	6:Q:66:ASP:OD1	1.93	0.49
6:O:281:PRO:CB	6:Q:618:THR:HB	2.42	0.49
6:P:44:THR:HG22	6:Q:84:LYS:HZ1	1.73	0.49
6:P:472:ARG:HA	6:P:472:ARG:HH11	1.77	0.49
6:P:622:GLU:OE1	6:Q:281:PRO:CD	2.59	0.49
6:Q:47:LEU:HA	6:Q:118:TYR:O	2.11	0.49
6:Q:315:LEU:HA	6:Q:331:LEU:O	2.11	0.49
6:Q:357:ILE:HG21	6:Q:408:ALA:HB2	1.94	0.49
5:S:4:HIS:HB2	6:W:586:VAL:CG1	2.41	0.49
6:U:29:THR:CA	6:V:610:THR:HG23	2.41	0.49
6:U:357:ILE:HG21	6:U:408:ALA:HB2	1.94	0.49
5:Y:167:LEU:O	5:Y:189:CYS:SG	2.66	0.49
2:B:411:GLN:OE1	4:D:192:PHE:CE1	2.65	0.49
2:B:1011:VAL:HA	2:B:1044:ASP:HB2	1.94	0.49
4:E:222:ARG:HG2	4:E:407:ALA:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:5:MET:HG3	6:K:494:THR:HG23	1.92	0.49
5:G:192:THR:C	6:I:364:PRO:CB	2.70	0.49
5:H:147:HIS:HA	5:H:269:ASP:OD2	2.12	0.49
6:J:36:LEU:C	6:K:253:VAL:HG12	2.37	0.49
6:J:44:THR:HG1	6:K:84:LYS:HD3	1.74	0.49
6:J:50:PRO:HD3	6:J:118:TYR:HE1	1.76	0.49
6:J:459:LEU:HD23	6:K:412:ARG:HH12	1.76	0.49
6:K:269:LYS:HE2	6:K:513:HIS:HB3	1.94	0.49
6:O:354:SER:HB3	6:Q:295:ARG:NH2	2.16	0.49
6:O:459:LEU:CA	6:P:412:ARG:HH11	1.93	0.49
6:P:269:LYS:HE2	6:P:513:HIS:HB3	1.94	0.49
6:P:411:VAL:HB	6:P:412:ARG:HH21	1.76	0.49
6:P:459:LEU:HD23	6:Q:412:ARG:HH12	1.76	0.49
5:S:130:PHE:CD1	6:U:446:PRO:HB2	2.48	0.49
6:U:70:GLN:HA	6:U:136:PHE:CG	2.48	0.49
6:U:161:LYS:CA	6:V:534:SER:OG	2.59	0.49
6:V:270:ASP:O	6:V:272:ASP:N	2.46	0.49
6:V:622:GLU:HB2	6:W:280:LEU:HD12	1.77	0.49
6:W:368:THR:H	6:W:404:ALA:HB3	1.77	0.49
5:Y:49:CYS:SG	5:Y:51:PHE:HB2	2.53	0.49
1:A:518:TYR:HB3	1:A:552:VAL:O	2.12	0.49
2:B:788:VAL:HG23	2:B:931:ILE:HB	1.94	0.49
2:B:993:TRP:CH2	2:B:1134:HIS:CG	3.01	0.49
5:F:4:HIS:CD2	6:J:586:VAL:HG23	2.28	0.49
6:I:295:ARG:HH11	6:I:298:PHE:CB	2.26	0.49
6:I:529:SER:N	6:J:283:SER:CB	2.72	0.49
6:J:459:LEU:CB	6:K:412:ARG:NH1	2.53	0.49
5:N:249:CYS:SG	5:N:250:HIS:N	2.86	0.49
6:O:315:LEU:HA	6:O:331:LEU:O	2.13	0.49
6:P:357:ILE:HG21	6:P:408:ALA:HB2	1.93	0.49
6:U:412:ARG:CD	6:W:457:PRO:C	2.65	0.49
6:U:416:ARG:O	6:W:298:PHE:CE1	2.57	0.49
6:U:458:THR:H	6:V:412:ARG:HD3	1.64	0.49
1:A:92:ALA:O	1:A:95:PHE:HB3	2.13	0.49
2:B:404:MET:HG2	4:D:46:ILE:HG12	1.90	0.49
2:B:986:GLN:H	2:B:1071:ARG:CZ	2.26	0.49
2:B:1178:ARG:CB	4:D:241:LEU:CD2	2.88	0.49
4:D:182:ILE:HG23	4:D:234:PHE:CE2	2.48	0.49
4:E:336:ALA:HB2	6:U:55:VAL:N	2.28	0.49
6:I:29:THR:CA	6:J:610:THR:HG23	2.42	0.49
6:I:242:PHE:CB	6:K:36:LEU:CD2	2.23	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:564:LEU:HB3	6:I:568:ARG:NH2	2.28	0.49
6:I:609:ARG:HG3	6:K:29:THR:OG1	2.13	0.49
6:J:36:LEU:HD21	6:K:242:PHE:CD1	2.41	0.49
6:K:270:ASP:O	6:K:272:ASP:N	2.46	0.49
5:M:49:CYS:SG	5:M:51:PHE:HB2	2.53	0.49
6:O:84:LYS:NZ	6:Q:44:THR:HG21	1.93	0.49
6:P:144:ASN:HD22	6:P:147:ARG:CZ	2.24	0.49
6:Q:312:ASN:HB2	6:Q:333:PRO:HA	1.94	0.49
5:R:27:ARG:NH1	5:R:29:ARG:H	2.11	0.49
6:U:609:ARG:HG3	6:W:29:THR:OG1	2.12	0.49
5:Y:147:HIS:HA	5:Y:269:ASP:OD2	2.13	0.49
3:C:209:ASN:O	3:C:210:ILE:HD13	2.13	0.49
5:F:5:MET:HE1	6:J:494:THR:OG1	2.11	0.49
5:G:25:TYR:CD2	5:G:40:TYR:CZ	3.01	0.49
5:G:124:ASP:HA	5:G:134:ASP:OD2	2.13	0.49
5:G:142:ALA:HB2	5:G:145:ARG:HH11	1.78	0.49
6:I:354:SER:HB3	6:K:295:ARG:NH2	2.15	0.49
6:K:623:LYS:O	6:K:627:ARG:HG3	2.13	0.49
5:L:244:ASN:ND2	5:L:246:THR:HB	2.28	0.49
5:N:194:LEU:CD1	6:P:448:PRO:HD2	2.43	0.49
5:T:4:HIS:HB3	6:U:586:VAL:HG11	1.95	0.49
5:T:207:VAL:HB	5:T:245:LEU:HD11	1.95	0.49
6:U:82:PHE:CE2	6:V:242:PHE:CE1	2.89	0.49
6:U:472:ARG:HH11	6:U:472:ARG:HA	1.77	0.49
6:V:16:ASP:H	6:V:222:ASN:HB3	1.78	0.49
6:V:36:LEU:O	6:W:253:VAL:CG1	2.60	0.49
6:V:47:LEU:HD21	6:V:116:SER:C	2.38	0.49
6:V:114:THR:HA	6:V:134:GLY:O	2.13	0.49
6:V:411:VAL:HB	6:V:412:ARG:HH21	1.77	0.49
6:W:270:ASP:O	6:W:272:ASP:N	2.46	0.49
6:W:315:LEU:HA	6:W:331:LEU:O	2.13	0.49
1:A:644:LEU:HA	1:A:656:PHE:O	2.13	0.49
2:B:310:LYS:HG3	2:B:399:ARG:HH22	1.78	0.49
2:B:454:GLN:O	2:B:458:HIS:CD2	2.66	0.49
2:B:831:LEU:HA	2:B:836:HIS:NE2	2.27	0.49
4:D:222:ARG:HH21	4:D:408:GLN:HB3	1.78	0.49
5:F:142:ALA:HB2	5:F:145:ARG:HH11	1.78	0.49
5:F:167:LEU:O	5:F:189:CYS:SG	2.67	0.49
5:F:207:VAL:HB	5:F:245:LEU:HD11	1.95	0.49
5:G:93:LEU:HD12	5:G:178:ASP:HB3	1.93	0.49
5:G:249:CYS:SG	5:G:250:HIS:N	2.86	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:H:25:TYR:CD2	5:H:40:TYR:CZ	3.01	0.49
6:I:419:MET:HE1	6:K:299:ILE:HD11	1.82	0.49
5:L:51:PHE:O	5:L:66:GLN:HG3	2.13	0.49
5:L:249:CYS:SG	5:L:250:HIS:N	2.86	0.49
5:N:49:CYS:SG	5:N:51:PHE:HB2	2.53	0.49
6:O:29:THR:CA	6:P:610:THR:HG23	2.42	0.49
6:O:232:ALA:HB1	6:Q:66:ASP:CG	1.91	0.49
6:O:295:ARG:NH2	6:P:354:SER:HB3	2.09	0.49
6:O:300:LYS:HZ3	6:P:418:ASN:ND2	1.87	0.49
6:O:609:ARG:HG3	6:Q:29:THR:CB	2.24	0.49
6:O:609:ARG:HG3	6:Q:29:THR:OG1	2.13	0.49
5:T:124:ASP:HA	5:T:134:ASP:OD2	2.12	0.49
6:V:66:ASP:CG	6:W:232:ALA:HB1	1.99	0.49
6:W:350:THR:HB	6:W:465:THR:O	2.13	0.49
5:Y:93:LEU:HD12	5:Y:178:ASP:HB3	1.94	0.49
1:A:263:VAL:HG22	1:A:267:MET:HE2	1.95	0.49
1:A:448:ASP:N	1:A:449:PRO:HD2	2.28	0.49
1:A:708:LEU:HA	1:A:763:ARG:O	2.13	0.49
1:A:832:LEU:HA	1:A:853:THR:O	2.12	0.49
2:B:1088:TYR:CZ	2:B:1094:LEU:HD22	2.48	0.49
2:B:1090:PRO:HB3	2:B:1120:PRO:HB2	1.95	0.49
3:C:873:GLN:OE1	3:C:884:PRO:HD2	2.12	0.49
5:H:27:ARG:NH1	5:H:29:ARG:H	2.11	0.49
6:I:154:ARG:HH12	6:J:246:THR:HB	1.66	0.49
6:I:195:PRO:CG	6:J:562:TYR:CB	2.49	0.49
6:I:315:LEU:HA	6:I:331:LEU:O	2.13	0.49
6:I:459:LEU:CD2	6:J:412:ARG:HH22	1.83	0.49
6:I:472:ARG:HA	6:I:472:ARG:HH11	1.78	0.49
6:I:529:SER:N	6:J:283:SER:CA	2.71	0.49
6:J:630:LEU:HD11	6:K:275:GLU:HG3	1.89	0.49
6:K:50:PRO:HD3	6:K:118:TYR:HE1	1.76	0.49
5:L:147:HIS:HA	5:L:269:ASP:OD2	2.12	0.49
6:O:70:GLN:HA	6:O:136:PHE:CG	2.48	0.49
6:O:114:THR:HA	6:O:134:GLY:O	2.12	0.49
6:O:171:THR:HA	6:O:172:PRO:HD2	1.76	0.49
6:P:622:GLU:HB2	6:Q:280:LEU:HD12	1.77	0.49
6:Q:623:LYS:O	6:Q:627:ARG:HG3	2.12	0.49
5:R:167:LEU:O	5:R:189:CYS:SG	2.68	0.49
6:U:114:THR:HA	6:U:134:GLY:O	2.12	0.49
6:U:312:ASN:HB2	6:U:333:PRO:HA	1.94	0.49
6:V:630:LEU:HD11	6:W:598:SER:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:W:193:ILE:O	6:W:194:LEU:C	2.50	0.49
6:X:327:TYR:HB2	6:X:445:ILE:HG22	1.95	0.49
1:A:928:ARG:HB3	1:A:930:TRP:CD1	2.47	0.48
1:A:957:ARG:HG2	1:A:962:GLU:OE1	2.12	0.48
2:B:376:LEU:HD22	4:D:251:ASN:HD21	1.78	0.48
2:B:621:TRP:HB3	2:B:626:LEU:HD11	1.95	0.48
2:B:652:GLN:HE21	2:B:773:ARG:CZ	2.26	0.48
3:C:442:CYS:HB3	3:C:444:TRP:CE3	2.48	0.48
4:E:214:ILE:HG23	4:E:233:TYR:HA	1.95	0.48
5:G:207:VAL:HB	5:G:245:LEU:HD11	1.94	0.48
5:H:5:MET:CE	6:I:303:ASP:OD1	2.60	0.48
5:H:124:ASP:HA	5:H:134:ASP:OD2	2.12	0.48
6:I:144:ASN:C	6:I:147:ARG:HE	2.21	0.48
6:I:299:ILE:HD13	6:J:419:MET:HE2	1.74	0.48
6:I:409:ILE:O	6:K:459:LEU:HD21	2.13	0.48
6:J:44:THR:HG22	6:K:84:LYS:HZ1	1.74	0.48
6:K:11:TYR:HB3	6:K:223:PRO:HB3	1.95	0.48
5:L:194:LEU:HB2	6:Q:447:SER:OG	2.13	0.48
5:M:124:ASP:HA	5:M:134:ASP:OD2	2.12	0.48
5:N:5:MET:CE	6:O:303:ASP:OD1	2.61	0.48
5:N:147:HIS:HA	5:N:269:ASP:OD2	2.12	0.48
6:O:409:ILE:O	6:Q:459:LEU:HD21	2.12	0.48
6:P:161:LYS:HG3	6:Q:533:ASP:OD1	2.00	0.48
6:P:459:LEU:HB2	6:Q:414:GLN:NE2	1.94	0.48
5:R:130:PHE:HE1	6:W:368:THR:HG21	1.78	0.48
5:T:194:LEU:CD1	6:V:448:PRO:HD2	2.43	0.48
5:T:249:CYS:SG	5:T:250:HIS:N	2.86	0.48
6:U:407:LEU:O	6:W:298:PHE:CD2	2.66	0.48
6:U:418:ASN:ND2	6:W:300:LYS:HE2	2.16	0.48
6:V:36:LEU:CG	6:W:242:PHE:HB3	2.31	0.48
6:V:36:LEU:C	6:W:253:VAL:HG12	2.37	0.48
6:W:295:ARG:HH11	6:W:298:PHE:CB	2.25	0.48
6:X:73:PHE:HE1	6:X:135:VAL:H	1.59	0.48
6:X:586:VAL:O	6:X:586:VAL:CG1	2.56	0.48
3:C:656:PHE:CD2	3:C:756:SER:HB2	2.48	0.48
4:D:198:GLN:O	4:D:198:GLN:HG2	2.12	0.48
5:H:194:LEU:CD1	6:J:448:PRO:HD2	2.43	0.48
6:I:70:GLN:HA	6:I:136:PHE:CG	2.47	0.48
6:I:87:PHE:HB3	6:K:121:ALA:HB1	1.96	0.48
6:I:254:GLY:CA	6:J:267:ALA:HB1	2.36	0.48
6:I:327:TYR:HB2	6:I:445:ILE:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:562:TYR:CD1	6:K:193:ILE:C	2.48	0.48
6:K:537:SER:HB3	6:K:566:TRP:CH2	2.48	0.48
5:L:130:PHE:HE1	6:Q:368:THR:HG21	1.78	0.48
6:O:161:LYS:HZ3	6:P:534:SER:N	2.06	0.48
6:O:168:THR:CB	6:P:537:SER:C	2.87	0.48
6:O:345:ILE:HA	6:O:428:ARG:CZ	2.43	0.48
6:O:537:SER:HB2	6:Q:169:MET:H	1.77	0.48
6:O:562:TYR:CZ	6:Q:193:ILE:CA	2.75	0.48
6:P:327:TYR:HB2	6:P:445:ILE:HG22	1.96	0.48
5:T:147:HIS:HA	5:T:269:ASP:OD2	2.12	0.48
6:U:47:LEU:HD21	6:U:116:SER:C	2.38	0.48
6:U:300:LYS:HZ3	6:V:418:ASN:ND2	1.98	0.48
6:U:623:LYS:O	6:U:627:ARG:HG3	2.13	0.48
5:Y:51:PHE:O	5:Y:66:GLN:HG3	2.13	0.48
1:A:154:PHE:HB3	1:A:155:PRO:CD	2.43	0.48
1:A:1142:ARG:H	1:A:1142:ARG:NE	2.09	0.48
2:B:317:PHE:HB3	2:B:329:MET:SD	2.53	0.48
2:B:872:ALA:HA	2:B:875:GLN:O	2.14	0.48
3:C:454:GLN:HG3	3:C:857:ALA:HA	1.95	0.48
3:C:992:ASN:H	3:C:1132:ARG:NH2	2.12	0.48
4:D:85:THR:O	4:D:86:SER:HB2	2.13	0.48
6:I:609:ARG:HE	6:K:29:THR:HA	1.72	0.48
6:J:170:LEU:CA	6:K:541:SER:HB3	2.43	0.48
6:J:564:LEU:HB3	6:J:568:ARG:NH2	2.29	0.48
6:J:630:LEU:HD11	6:K:598:SER:HB3	1.94	0.48
5:L:25:TYR:CD2	5:L:40:TYR:CZ	3.01	0.48
5:M:147:HIS:HA	5:M:269:ASP:OD2	2.12	0.48
5:M:249:CYS:SG	5:M:250:HIS:N	2.86	0.48
6:O:42:ASN:OD1	6:P:84:LYS:HG3	2.13	0.48
6:P:36:LEU:C	6:Q:253:VAL:HG12	2.37	0.48
6:Q:47:LEU:HD21	6:Q:116:SER:C	2.38	0.48
6:Q:295:ARG:HH11	6:Q:298:PHE:CB	2.26	0.48
6:Q:537:SER:HB3	6:Q:566:TRP:CH2	2.48	0.48
5:R:49:CYS:O	5:R:52:CYS:SG	2.67	0.48
5:T:27:ARG:NH1	5:T:29:ARG:H	2.11	0.48
6:U:184:LYS:HA	6:U:648:LYS:HZ2	1.77	0.48
6:W:75:ASN:HB3	6:W:78:MET:CB	2.41	0.48
6:W:457:PRO:O	6:W:458:THR:HB	2.13	0.48
5:Y:249:CYS:SG	5:Y:250:HIS:N	2.86	0.48
1:A:45:ARG:HB2	1:A:62:TYR:OH	2.12	0.48
1:A:613:GLY:O	1:A:661:GLY:HA2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:633:ASN:ND2	1:A:634:LEU:HG	2.27	0.48
1:A:936:PRO:HB3	1:A:1021:ARG:NH1	2.28	0.48
2:B:519:GLN:HB3	2:B:521:MET:HE3	1.95	0.48
2:B:571:LEU:HD22	2:B:701:ILE:HG12	1.95	0.48
2:B:645:HIS:NE2	2:B:703:THR:OG1	1.71	0.48
2:B:959:ARG:HH22	4:D:40:ARG:CA	2.24	0.48
3:C:663:GLN:HE22	3:C:853:ARG:NH1	2.10	0.48
4:D:88:GLN:HE21	4:D:112:TRP:CG	2.31	0.48
5:F:124:ASP:HA	5:F:134:ASP:OD2	2.12	0.48
5:G:176:LEU:HD22	5:G:185:VAL:CG2	2.40	0.48
5:H:122:SER:O	5:H:176:LEU:HD11	2.12	0.48
6:I:610:THR:CA	6:K:30:ALA:CB	2.90	0.48
6:K:47:LEU:HD21	6:K:116:SER:C	2.39	0.48
5:L:167:LEU:O	5:L:189:CYS:SG	2.68	0.48
5:M:142:ALA:HB2	5:M:145:ARG:HH11	1.78	0.48
6:P:459:LEU:CB	6:Q:412:ARG:HE	2.22	0.48
6:Q:408:ALA:HA	6:Q:416:ARG:O	2.12	0.48
6:U:50:PRO:HD3	6:U:118:TYR:HE1	1.75	0.48
6:U:315:LEU:HA	6:U:331:LEU:O	2.13	0.48
6:U:541:SER:HB3	6:W:170:LEU:N	2.28	0.48
6:V:282:VAL:HG13	6:V:482:ASP:C	2.38	0.48
2:B:338:GLU:CD	2:B:338:GLU:H	2.21	0.48
2:B:429:ASN:HD22	3:C:611:PRO:CG	2.18	0.48
2:B:431:THR:CA	3:C:614:GLN:NE2	2.74	0.48
2:B:951:PRO:CG	4:D:37:TRP:CZ3	2.96	0.48
4:D:227:ARG:NH2	4:D:340:GLN:HE22	2.11	0.48
4:D:390:ASN:HB3	6:P:50:PRO:HG3	1.86	0.48
4:E:112:TRP:CZ3	4:E:114:VAL:HA	2.48	0.48
5:G:27:ARG:NH2	5:G:27:ARG:HG2	2.28	0.48
5:G:49:CYS:SG	5:G:51:PHE:HB2	2.54	0.48
6:I:253:VAL:CG1	6:K:36:LEU:C	2.87	0.48
6:I:312:ASN:HB2	6:I:333:PRO:HA	1.94	0.48
6:J:459:LEU:HG	6:K:412:ARG:CG	2.43	0.48
6:J:528:ALA:HB1	6:K:283:SER:O	1.93	0.48
5:M:25:TYR:CD2	5:M:40:TYR:CZ	3.02	0.48
5:M:27:ARG:NH2	5:M:27:ARG:HG2	2.28	0.48
5:N:27:ARG:NH2	5:N:27:ARG:HG2	2.28	0.48
6:O:34:ILE:O	6:P:256:SER:CB	2.62	0.48
6:O:254:GLY:CA	6:P:267:ALA:HB1	2.36	0.48
6:O:280:LEU:HD12	6:Q:622:GLU:HB2	1.79	0.48
6:Q:270:ASP:O	6:Q:272:ASP:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:207:VAL:HB	5:R:245:LEU:HD11	1.94	0.48
5:S:131:ARG:NE	6:U:448:PRO:HG2	2.27	0.48
5:T:49:CYS:SG	5:T:51:PHE:HB2	2.54	0.48
6:U:32:PRO:HG3	6:V:608:LEU:O	2.13	0.48
6:U:295:ARG:HH11	6:U:298:PHE:CB	2.27	0.48
6:W:70:GLN:HA	6:W:136:PHE:CG	2.48	0.48
5:Y:27:ARG:NH1	5:Y:29:ARG:H	2.12	0.48
1:A:1107:ILE:HG22	1:A:1124:SER:HB2	1.95	0.48
3:C:436:LEU:HD22	4:E:43:HIS:CG	2.44	0.48
4:D:215:TRP:CH2	4:D:219:LEU:HD22	2.48	0.48
6:I:47:LEU:HD21	6:I:116:SER:C	2.39	0.48
5:L:44:GLY:CA	6:Q:401:GLY:N	2.68	0.48
5:M:122:SER:O	5:M:176:LEU:HD11	2.13	0.48
5:N:44:GLY:HA3	6:P:401:GLY:N	2.29	0.48
5:N:51:PHE:O	5:N:66:GLN:HG3	2.14	0.48
6:O:193:ILE:HG23	6:P:562:TYR:CE1	2.25	0.48
6:O:472:ARG:HH11	6:O:472:ARG:HA	1.78	0.48
6:P:534:SER:O	6:P:537:SER:OG	2.31	0.48
6:Q:564:LEU:HB3	6:Q:568:ARG:NH2	2.28	0.48
5:R:193:GLY:HA2	6:W:364:PRO:HG2	1.68	0.48
5:S:27:ARG:NH1	5:S:29:ARG:H	2.12	0.48
5:S:244:ASN:ND2	5:S:246:THR:HB	2.29	0.48
5:T:49:CYS:O	5:T:52:CYS:SG	2.68	0.48
6:U:46:LYS:HA	6:U:72:SER:HA	1.95	0.48
6:U:548:LYS:CE	6:W:644:LEU:CA	2.74	0.48
6:V:564:LEU:HB3	6:V:568:ARG:NH2	2.29	0.48
6:X:47:LEU:HD21	6:X:116:SER:C	2.39	0.48
6:X:564:LEU:HB3	6:X:568:ARG:NH2	2.29	0.48
5:Y:207:VAL:HB	5:Y:245:LEU:HD11	1.94	0.48
2:B:1071:ARG:HA	2:B:1071:ARG:HE	1.79	0.48
4:E:325:CYS:O	4:E:326:LEU:HB2	2.12	0.48
5:F:93:LEU:HD12	5:F:178:ASP:HB3	1.94	0.48
5:F:194:LEU:HD21	6:K:447:SER:HB2	1.84	0.48
5:H:49:CYS:SG	5:H:51:PHE:HB2	2.54	0.48
6:I:75:ASN:HB3	6:I:78:MET:CB	2.42	0.48
6:I:345:ILE:HA	6:I:428:ARG:CZ	2.43	0.48
6:I:416:ARG:HA	6:K:298:PHE:CE1	2.49	0.48
6:I:623:LYS:O	6:I:627:ARG:HG3	2.14	0.48
6:J:345:ILE:HA	6:J:428:ARG:CZ	2.43	0.48
6:K:73:PHE:HE1	6:K:135:VAL:H	1.60	0.48
5:M:131:ARG:NE	6:O:448:PRO:HG2	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:282:VAL:HG13	6:O:482:ASP:C	2.39	0.48
6:P:148:THR:HG23	6:W:100:LYS:HB3	1.96	0.48
6:P:630:LEU:HD11	6:Q:598:SER:HB3	1.96	0.48
5:S:51:PHE:O	5:S:66:GLN:HG3	2.14	0.48
5:S:82:LEU:O	5:S:85:VAL:HB	2.14	0.48
6:U:170:LEU:N	6:V:541:SER:CB	2.71	0.48
6:U:537:SER:HB2	6:W:165:THR:O	2.13	0.48
6:U:612:SER:HB2	6:W:160:GLN:CG	1.97	0.48
2:B:310:LYS:CG	2:B:399:ARG:CZ	2.91	0.48
2:B:388:MET:SD	2:B:1179:VAL:HG21	2.54	0.48
3:C:315:SER:HB2	3:C:1196:ARG:HD2	1.09	0.48
4:E:35:ARG:HH22	4:E:138:ILE:HG13	1.79	0.48
4:E:400:THR:OG1	6:U:52:GLY:C	2.57	0.48
6:I:281:PRO:CG	6:K:622:GLU:OE1	2.61	0.48
6:J:195:PRO:HG3	6:K:562:TYR:HB2	1.92	0.48
5:L:159:PRO:HG2	5:L:164:ASP:OD2	2.14	0.48
6:O:32:PRO:HG3	6:P:608:LEU:O	2.14	0.48
6:O:270:ASP:O	6:O:272:ASP:N	2.45	0.48
6:O:530:ARG:H	6:P:472:ARG:HD2	1.69	0.48
6:O:534:SER:HB3	6:Q:165:THR:HG21	1.84	0.48
6:O:545:VAL:HB	6:Q:637:PHE:HE1	1.77	0.48
6:P:345:ILE:HA	6:P:428:ARG:CZ	2.43	0.48
6:Q:542:ARG:C	6:Q:546:GLN:HE21	2.22	0.48
5:R:27:ARG:NH2	5:R:27:ARG:HG2	2.28	0.48
5:R:147:HIS:HA	5:R:269:ASP:OD2	2.13	0.48
5:T:122:SER:O	5:T:176:LEU:HD11	2.13	0.48
6:U:34:ILE:O	6:V:256:SER:CB	2.62	0.48
6:U:170:LEU:CD2	6:V:545:VAL:CG2	2.92	0.48
6:V:472:ARG:HA	6:V:472:ARG:HH11	1.77	0.48
6:W:282:VAL:HG13	6:W:482:ASP:C	2.38	0.48
6:W:564:LEU:HB3	6:W:568:ARG:NH2	2.28	0.48
2:B:643:ALA:HA	2:B:646:ILE:HD12	1.96	0.48
2:B:712:VAL:HA	2:B:717:MET:SD	2.54	0.48
3:C:1016:ARG:HG2	3:C:1016:ARG:NH2	2.29	0.48
5:F:159:PRO:HG2	5:F:164:ASP:OD2	2.13	0.48
6:I:528:ALA:C	6:J:283:SER:CB	2.86	0.48
6:K:408:ALA:HA	6:K:416:ARG:O	2.13	0.48
6:O:11:TYR:HB3	6:O:223:PRO:HB3	1.95	0.48
6:O:161:LYS:CE	6:P:533:ASP:C	2.79	0.48
6:O:327:TYR:HB2	6:O:445:ILE:HG22	1.95	0.48
6:O:407:LEU:O	6:Q:298:PHE:CD2	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:459:LEU:CD1	6:P:414:GLN:H	2.26	0.48
6:P:195:PRO:HG3	6:Q:562:TYR:HB2	1.94	0.48
6:Q:282:VAL:HG13	6:Q:482:ASP:C	2.39	0.48
5:R:194:LEU:HB2	6:W:447:SER:OG	2.13	0.48
5:S:49:CYS:SG	5:S:51:PHE:HB2	2.53	0.48
5:T:244:ASN:ND2	5:T:246:THR:HB	2.29	0.48
6:U:11:TYR:HB3	6:U:223:PRO:HB3	1.96	0.48
6:U:122:THR:HG23	6:V:90:ASN:CB	2.35	0.48
6:U:407:LEU:O	6:W:298:PHE:HD2	1.97	0.48
6:U:564:LEU:HB3	6:U:568:ARG:NH2	2.28	0.48
6:X:312:ASN:HB2	6:X:333:PRO:HA	1.96	0.48
6:X:357:ILE:HG21	6:X:408:ALA:HB2	1.96	0.48
6:X:494:THR:CG2	5:Y:4:HIS:C	2.87	0.48
3:C:370:ARG:CZ	3:C:373:ARG:HE	2.26	0.48
4:D:187:GLN:HA	4:D:190:TYR:CE2	2.49	0.48
4:D:205:VAL:HG22	4:D:293:VAL:HG21	1.95	0.48
5:F:81:SER:O	5:F:84:GLU:HB2	2.14	0.48
5:F:82:LEU:O	5:F:85:VAL:HB	2.14	0.48
5:G:27:ARG:NH1	5:G:29:ARG:H	2.12	0.48
6:I:407:LEU:O	6:K:298:PHE:CD2	2.67	0.48
6:J:282:VAL:HG13	6:J:482:ASP:C	2.39	0.48
6:J:459:LEU:CB	6:K:412:ARG:HE	2.23	0.48
6:K:46:LYS:HA	6:K:72:SER:HA	1.96	0.48
5:L:82:LEU:O	5:L:85:VAL:HB	2.14	0.48
5:L:142:ALA:HB2	5:L:145:ARG:HH11	1.78	0.48
6:Q:345:ILE:HA	6:Q:428:ARG:CZ	2.44	0.48
5:T:139:SER:HA	5:T:195:LEU:HD22	1.96	0.48
6:U:161:LYS:CE	6:V:533:ASP:C	2.80	0.48
6:V:146:GLN:HE22	6:W:241:ALA:HB1	1.79	0.48
6:V:295:ARG:HH12	6:W:354:SER:HB2	1.78	0.48
6:V:606:THR:CG2	6:V:609:ARG:NH2	2.68	0.48
6:X:70:GLN:HA	6:X:136:PHE:CG	2.48	0.48
5:Y:142:ALA:HB2	5:Y:145:ARG:HH11	1.79	0.48
2:B:239:ALA:HA	2:B:1150:ASN:HA	1.96	0.47
2:B:550:PHE:CZ	2:B:611:PRO:HB3	2.49	0.47
2:B:741:THR:O	2:B:744:PRO:HD2	2.14	0.47
2:B:745:PHE:CZ	2:B:750:MET:HE1	2.48	0.47
3:C:884:PRO:CG	3:C:965:GLU:OE2	2.37	0.47
5:F:194:LEU:HB2	6:K:447:SER:OG	2.13	0.47
5:H:244:ASN:ND2	5:H:246:THR:HB	2.29	0.47
6:I:36:LEU:CD2	6:J:242:PHE:CB	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:412:ARG:HB2	6:K:459:LEU:HB2	1.91	0.47
6:I:419:MET:H	6:K:298:PHE:CB	2.25	0.47
6:J:623:LYS:O	6:J:627:ARG:HG3	2.13	0.47
6:K:70:GLN:HA	6:K:136:PHE:CG	2.47	0.47
6:K:345:ILE:HA	6:K:428:ARG:CZ	2.44	0.47
5:L:27:ARG:NH1	5:L:29:ARG:H	2.11	0.47
5:M:51:PHE:O	5:M:66:GLN:HG3	2.14	0.47
5:N:4:HIS:NE2	6:O:586:VAL:CA	2.77	0.47
6:O:253:VAL:CG1	6:Q:36:LEU:C	2.87	0.47
6:O:300:LYS:HE2	6:P:418:ASN:ND2	2.21	0.47
6:P:121:ALA:HB1	6:Q:87:PHE:CB	2.42	0.47
5:S:207:VAL:HB	5:S:245:LEU:HD11	1.94	0.47
5:T:25:TYR:CD2	5:T:40:TYR:CZ	3.02	0.47
5:T:167:LEU:O	5:T:189:CYS:SG	2.66	0.47
6:U:42:ASN:OD1	6:V:84:LYS:HG3	2.12	0.47
6:U:327:TYR:HB2	6:U:445:ILE:HG22	1.96	0.47
6:U:416:ARG:C	6:W:298:PHE:HE2	1.88	0.47
6:U:472:ARG:HG3	6:W:530:ARG:HA	1.91	0.47
5:Y:159:PRO:HG2	5:Y:164:ASP:OD2	2.14	0.47
1:A:596:ASN:HD21	1:A:627:PHE:HA	1.79	0.47
2:B:490:PRO:HA	2:B:824:CYS:SG	2.55	0.47
2:B:688:THR:HG22	2:B:832:ILE:HG12	1.96	0.47
4:D:153:GLN:HE22	6:P:53:THR:HG22	1.79	0.47
5:F:27:ARG:NH1	5:F:29:ARG:H	2.12	0.47
5:H:51:PHE:O	5:H:66:GLN:HG3	2.13	0.47
5:H:142:ALA:HB2	5:H:145:ARG:HH11	1.78	0.47
6:J:11:TYR:HB3	6:J:223:PRO:HB3	1.97	0.47
6:K:564:LEU:HB3	6:K:568:ARG:NH2	2.28	0.47
5:N:142:ALA:HB2	5:N:145:ARG:HH11	1.80	0.47
6:O:161:LYS:NZ	6:P:533:ASP:CA	2.37	0.47
6:O:170:LEU:CD2	6:P:545:VAL:CG2	2.92	0.47
6:O:295:ARG:HH11	6:O:298:PHE:CB	2.26	0.47
6:P:47:LEU:HD21	6:P:116:SER:C	2.39	0.47
6:P:456:ASN:HD22	6:P:457:PRO:HD2	1.79	0.47
6:P:542:ARG:C	6:P:546:GLN:HE21	2.22	0.47
6:U:90:ASN:HB2	6:W:122:THR:CG2	2.41	0.47
6:U:278:THR:HG1	6:W:625:ARG:CZ	2.25	0.47
6:U:528:ALA:C	6:V:283:SER:CB	2.86	0.47
6:U:606:THR:HG23	6:W:173:ASP:OD2	2.05	0.47
6:U:609:ARG:HE	6:W:29:THR:HA	1.71	0.47
6:V:11:TYR:HB3	6:V:223:PRO:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:170:LEU:CA	6:W:541:SER:HB3	2.44	0.47
6:V:345:ILE:HA	6:V:428:ARG:CZ	2.44	0.47
1:A:26:ARG:HH12	1:A:27:PHE:HB3	1.78	0.47
2:B:707:PHE:HA	2:B:710:ARG:HE	1.78	0.47
2:B:1172:LEU:HD13	2:B:1191:TYR:CE2	2.49	0.47
3:C:385:VAL:O	3:C:1195:TYR:HA	2.14	0.47
4:D:35:ARG:H	4:D:40:ARG:HH12	1.60	0.47
4:D:136:TRP:HB3	4:D:137:PRO:HD3	1.95	0.47
6:I:168:THR:CB	6:J:537:SER:C	2.88	0.47
5:L:194:LEU:HD13	6:Q:448:PRO:HD2	1.96	0.47
5:M:27:ARG:NH1	5:M:29:ARG:H	2.11	0.47
5:M:81:SER:O	5:M:84:GLU:HB2	2.13	0.47
6:P:70:GLN:HA	6:P:136:PHE:CG	2.48	0.47
6:Q:350:THR:HB	6:Q:465:THR:O	2.13	0.47
5:R:194:LEU:HD13	6:W:448:PRO:HD2	1.97	0.47
5:R:204:ALA:HA	5:R:254:ALA:HB2	1.97	0.47
5:S:4:HIS:CE1	6:W:586:VAL:CB	2.97	0.47
5:S:25:TYR:CD2	5:S:40:TYR:CZ	3.03	0.47
5:T:204:ALA:HA	5:T:254:ALA:HB2	1.96	0.47
6:U:168:THR:OG1	6:V:537:SER:HB2	2.04	0.47
6:U:545:VAL:CB	6:W:641:ILE:CG1	2.84	0.47
6:X:46:LYS:HA	6:X:72:SER:HA	1.96	0.47
6:X:407:LEU:HB3	6:X:418:ASN:HB3	1.96	0.47
6:X:623:LYS:O	6:X:627:ARG:HG3	2.15	0.47
5:Y:25:TYR:CD2	5:Y:40:TYR:CZ	3.02	0.47
5:Y:244:ASN:ND2	5:Y:246:THR:HB	2.29	0.47
1:A:1162:GLN:HE22	1:A:1190:ARG:NE	2.12	0.47
2:B:437:ARG:CD	4:D:173:ALA:O	2.61	0.47
2:B:487:VAL:HG23	2:B:828:GLU:OE2	2.14	0.47
2:B:682:GLN:HE21	2:B:749:HIS:CD2	2.32	0.47
3:C:239:ALA:HA	3:C:1150:ASN:HA	1.97	0.47
4:E:339:LEU:CD1	6:U:58:ILE:HD11	2.44	0.47
4:E:400:THR:OG1	6:U:53:THR:HG23	2.15	0.47
5:G:159:PRO:HG2	5:G:164:ASP:OD2	2.15	0.47
6:I:34:ILE:O	6:J:256:SER:CB	2.62	0.47
6:I:170:LEU:CD2	6:J:545:VAL:CG2	2.92	0.47
6:I:246:THR:HB	6:K:154:ARG:HH12	1.74	0.47
6:J:47:LEU:HD21	6:J:116:SER:C	2.39	0.47
5:N:25:TYR:CD2	5:N:40:TYR:CZ	3.02	0.47
5:N:27:ARG:NH1	5:N:29:ARG:H	2.12	0.47
5:N:244:ASN:ND2	5:N:246:THR:HB	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:281:PRO:CG	6:Q:622:GLU:OE1	2.61	0.47
6:Q:171:THR:HA	6:Q:172:PRO:HD2	1.77	0.47
5:R:25:TYR:CD2	5:R:40:TYR:CZ	3.02	0.47
6:U:32:PRO:CG	6:V:608:LEU:O	2.62	0.47
6:U:270:ASP:O	6:U:272:ASP:N	2.46	0.47
6:W:171:THR:HA	6:W:172:PRO:HD2	1.76	0.47
6:W:408:ALA:HA	6:W:416:ARG:O	2.13	0.47
6:X:47:LEU:HD21	6:X:117:GLY:N	2.30	0.47
5:Y:204:ALA:HA	5:Y:254:ALA:HB2	1.96	0.47
1:A:184:ASP:H	1:A:185:PRO:HD3	1.79	0.47
1:A:198:ARG:NH2	1:A:257:GLN:HE21	2.11	0.47
1:A:248:LEU:HD21	2:B:627:ASN:HD21	1.74	0.47
1:A:1168:PHE:HA	1:A:1173:TYR:HA	1.95	0.47
3:C:705:ILE:O	3:C:709:ILE:HG13	2.15	0.47
4:D:21:PHE:CE1	4:D:26:LEU:HD13	2.50	0.47
4:D:54:TRP:CZ2	4:D:370:LEU:HD13	2.49	0.47
4:D:157:TYR:CE2	4:D:283:GLY:HA3	2.49	0.47
4:E:331:VAL:HB	4:E:332:PRO:HD3	1.95	0.47
5:G:154:GLY:H	5:G:157:HIS:HB2	1.79	0.47
6:I:147:ARG:NH2	6:Q:100:LYS:CG	2.66	0.47
6:I:168:THR:O	6:J:541:SER:CB	2.63	0.47
6:I:541:SER:HB3	6:K:170:LEU:N	2.28	0.47
6:J:327:TYR:HB2	6:J:445:ILE:HG22	1.97	0.47
6:K:282:VAL:HG13	6:K:482:ASP:C	2.39	0.47
5:N:84:GLU:CD	5:N:88:LYS:HZ3	2.22	0.47
6:Q:70:GLN:HA	6:Q:136:PHE:CG	2.49	0.47
6:U:16:ASP:H	6:U:222:ASN:HB3	1.80	0.47
6:U:47:LEU:HD21	6:U:117:GLY:N	2.29	0.47
6:U:87:PHE:HB3	6:W:121:ALA:HB1	1.97	0.47
6:U:459:LEU:HD23	6:V:412:ARG:NH1	2.27	0.47
6:U:630:LEU:CG	6:V:275:GLU:HG2	2.41	0.47
6:V:300:LYS:HE2	6:W:418:ASN:HD21	1.71	0.47
6:W:46:LYS:HA	6:W:72:SER:HA	1.97	0.47
1:A:1268:PRO:HD2	1:A:1271:VAL:HG21	1.97	0.47
2:B:437:ARG:HD2	4:D:173:ALA:O	2.15	0.47
3:C:373:ARG:O	3:C:374:ALA:C	2.54	0.47
3:C:697:MET:O	3:C:701:ILE:HG13	2.14	0.47
3:C:799:ASP:CB	3:C:801:ARG:NE	2.77	0.47
4:D:29:LEU:HD22	4:D:71:LEU:HD22	1.95	0.47
5:F:49:CYS:SG	5:F:51:PHE:HB2	2.54	0.47
5:F:51:PHE:O	5:F:66:GLN:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:130:PHE:CG	6:I:446:PRO:HB2	2.50	0.47
5:H:81:SER:O	5:H:84:GLU:HB2	2.15	0.47
5:H:159:PRO:HG2	5:H:164:ASP:OD2	2.14	0.47
6:I:484:ILE:HG22	6:I:486:PRO:HD3	1.97	0.47
5:N:159:PRO:HG2	5:N:164:ASP:OD2	2.14	0.47
6:O:528:ALA:C	6:P:283:SER:CB	2.85	0.47
6:O:542:ARG:C	6:O:546:GLN:HE21	2.23	0.47
5:R:81:SER:O	5:R:84:GLU:HB2	2.14	0.47
5:R:159:PRO:HG2	5:R:164:ASP:OD2	2.14	0.47
5:T:81:SER:O	5:T:84:GLU:HB2	2.15	0.47
5:T:142:ALA:HB2	5:T:145:ARG:HH11	1.79	0.47
6:U:456:ASN:HD21	6:V:412:ARG:CG	2.09	0.47
6:U:542:ARG:C	6:U:546:GLN:HE21	2.23	0.47
5:Y:27:ARG:NH2	5:Y:27:ARG:HG2	2.29	0.47
1:A:223:GLY:O	1:A:294:SER:HB3	2.15	0.47
1:A:251:SER:HA	1:A:252:SER:HA	1.60	0.47
1:A:377:ARG:NH1	6:I:57:THR:HG23	2.25	0.47
2:B:287:GLN:OE1	2:B:1111:GLY:HA3	2.15	0.47
2:B:317:PHE:CE1	2:B:385:VAL:HG21	2.50	0.47
2:B:437:ARG:H	4:D:176:ALA:HA	1.80	0.47
2:B:882:PRO:CG	2:B:962:GLN:CD	2.51	0.47
2:B:1060:ARG:O	2:B:1064:TRP:HB3	2.14	0.47
3:C:751:CYS:HA	3:C:754:GLU:HB3	1.97	0.47
3:C:795:ASP:O	3:C:797:ALA:N	2.44	0.47
4:D:329:ASN:HD21	4:D:396:GLN:NE2	2.13	0.47
4:E:140:GLN:NE2	4:E:193:ALA:HB3	2.30	0.47
4:E:191:ARG:HA	4:E:191:ARG:HH21	1.79	0.47
4:E:383:ARG:HG3	4:E:385:PRO:HD3	1.95	0.47
5:F:159:PRO:HA	5:F:261:ASP:C	2.40	0.47
6:I:32:PRO:HG3	6:J:608:LEU:O	2.14	0.47
6:I:42:ASN:OD1	6:J:84:LYS:HG3	2.13	0.47
6:I:256:SER:OG	6:K:34:ILE:C	2.51	0.47
6:I:282:VAL:HG13	6:I:482:ASP:C	2.40	0.47
6:I:618:THR:C	6:J:281:PRO:CG	2.85	0.47
6:K:542:ARG:C	6:K:546:GLN:HE21	2.22	0.47
5:L:159:PRO:HA	5:L:261:ASP:C	2.40	0.47
5:M:244:ASN:ND2	5:M:246:THR:HB	2.30	0.47
5:N:8:GLN:HA	5:N:11:HIS:HB2	1.97	0.47
6:O:82:PHE:HE2	6:P:242:PHE:CZ	2.22	0.47
6:O:161:LYS:HE3	6:P:533:ASP:HB2	1.95	0.47
6:O:564:LEU:HB3	6:O:568:ARG:NH2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:565:LEU:HA	6:O:568:ARG:HD2	1.97	0.47
6:O:630:LEU:HD13	6:P:275:GLU:HB3	1.92	0.47
6:P:61:LEU:HG	6:P:127:LEU:HD23	1.97	0.47
6:P:147:ARG:HH11	6:W:100:LYS:CE	1.99	0.47
6:P:282:VAL:HG13	6:P:482:ASP:C	2.39	0.47
6:P:334:GLY:N	6:P:335:PRO:HD3	2.29	0.47
6:Q:16:ASP:H	6:Q:222:ASN:HB3	1.79	0.47
6:Q:47:LEU:HD21	6:Q:117:GLY:N	2.30	0.47
5:R:130:PHE:HE1	6:W:368:THR:HG22	1.78	0.47
5:S:27:ARG:HG2	5:S:27:ARG:NH2	2.29	0.47
5:S:130:PHE:HE1	6:U:368:THR:HG22	1.80	0.47
5:T:5:MET:CE	6:U:303:ASP:OD1	2.62	0.47
5:T:51:PHE:O	5:T:66:GLN:HG3	2.14	0.47
5:T:159:PRO:HA	5:T:261:ASP:C	2.39	0.47
5:T:159:PRO:HG2	5:T:164:ASP:OD2	2.15	0.47
6:U:36:LEU:CD2	6:V:242:PHE:CB	2.23	0.47
6:U:168:THR:CB	6:V:537:SER:C	2.88	0.47
6:U:168:THR:HA	6:U:171:THR:HB	1.97	0.47
6:U:173:ASP:OD2	6:V:606:THR:HG23	2.09	0.47
6:U:253:VAL:CG1	6:W:36:LEU:C	2.87	0.47
6:U:354:SER:HB3	6:W:295:ARG:NH2	2.15	0.47
6:V:29:THR:CA	6:W:610:THR:HG23	2.45	0.47
6:V:295:ARG:CZ	6:W:419:MET:CB	2.63	0.47
6:V:456:ASN:HD22	6:V:457:PRO:HD2	1.79	0.47
6:V:630:LEU:HD11	6:W:275:GLU:HG3	1.90	0.47
6:W:16:ASP:H	6:W:222:ASN:HB3	1.80	0.47
6:W:47:LEU:HD21	6:W:116:SER:C	2.39	0.47
6:X:11:TYR:HB3	6:X:223:PRO:HB3	1.97	0.47
6:X:16:ASP:H	6:X:222:ASN:HB3	1.80	0.47
6:X:345:ILE:HA	6:X:428:ARG:CZ	2.44	0.47
5:Y:159:PRO:HA	5:Y:261:ASP:C	2.40	0.47
5:Y:213:THR:O	5:Y:216:ILE:HG13	2.15	0.47
1:A:1070:VAL:HG12	1:A:1071:ILE:HG13	1.96	0.47
1:A:1242:PRO:HD3	1:A:1260:LEU:HD22	1.97	0.47
3:C:125:ARG:NH2	3:C:166:ASP:H	2.13	0.47
3:C:641:ALA:HA	3:C:644:GLU:OE1	2.15	0.47
3:C:927:GLY:O	3:C:928:ASP:C	2.57	0.47
4:E:152:ASP:H	4:E:306:PRO:HG3	1.79	0.47
4:E:222:ARG:NE	4:E:408:GLN:HA	2.29	0.47
4:E:271:SER:O	4:E:274:TRP:HD1	1.97	0.47
4:E:300:ILE:HD12	4:E:315:LEU:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:373:MET:O	4:E:376:ALA:HB3	2.15	0.47
5:G:167:LEU:O	5:G:189:CYS:SG	2.68	0.47
5:H:213:THR:O	5:H:216:ILE:HG13	2.15	0.47
6:I:46:LYS:HA	6:I:72:SER:HA	1.96	0.47
6:J:298:PHE:HE2	6:K:416:ARG:C	1.93	0.47
6:J:534:SER:O	6:J:537:SER:OG	2.32	0.47
5:L:213:THR:O	5:L:216:ILE:HG13	2.15	0.47
5:M:4:HIS:CE1	6:Q:586:VAL:CB	2.97	0.47
5:M:4:HIS:HB2	6:Q:586:VAL:CG1	2.43	0.47
5:N:154:GLY:H	5:N:157:HIS:HB2	1.80	0.47
6:O:84:LYS:NZ	6:Q:43:PRO:HA	2.30	0.47
6:O:87:PHE:HB3	6:Q:121:ALA:HB1	1.95	0.47
6:O:541:SER:HB3	6:Q:170:LEU:N	2.30	0.47
6:O:562:TYR:CD1	6:Q:193:ILE:C	2.48	0.47
6:P:168:THR:HG1	6:Q:537:SER:CB	2.18	0.47
5:S:5:MET:HE1	6:W:494:THR:HG1	1.74	0.47
5:S:66:GLN:O	5:S:69:HIS:HB2	2.15	0.47
5:S:213:THR:O	5:S:216:ILE:HG13	2.15	0.47
5:T:38:ALA:N	5:T:50:ALA:HB3	2.30	0.47
5:T:82:LEU:O	5:T:85:VAL:HB	2.14	0.47
6:V:534:SER:O	6:V:537:SER:OG	2.32	0.47
2:B:1103:TRP:CD1	2:B:1116:PRO:HD3	2.50	0.47
2:B:1171:GLY:HA3	2:B:1179:VAL:HG13	1.97	0.47
3:C:183:LEU:HB2	3:C:471:PRO:HG3	1.97	0.47
3:C:1125:TYR:HD1	3:C:1127:CYS:HG	1.59	0.47
5:F:244:ASN:ND2	5:F:246:THR:HB	2.30	0.47
6:I:11:TYR:HB3	6:I:223:PRO:HB3	1.96	0.47
6:I:242:PHE:CD1	6:K:36:LEU:HD21	2.47	0.47
6:I:622:GLU:CA	6:J:280:LEU:HD12	2.39	0.47
6:J:36:LEU:CD2	6:K:253:VAL:CG1	2.84	0.47
6:J:146:GLN:HE22	6:K:241:ALA:HB1	1.80	0.47
5:L:27:ARG:NH2	5:L:27:ARG:HG2	2.29	0.47
5:N:49:CYS:O	5:N:52:CYS:SG	2.68	0.47
6:O:16:ASP:H	6:O:222:ASN:HB3	1.79	0.47
6:O:47:LEU:HD21	6:O:117:GLY:N	2.29	0.47
6:O:409:ILE:CG2	6:Q:459:LEU:HD23	2.41	0.47
6:O:538:ALA:HA	6:Q:168:THR:O	2.15	0.47
6:P:11:TYR:HB3	6:P:223:PRO:HB3	1.96	0.47
6:P:270:ASP:O	6:P:272:ASP:N	2.46	0.47
6:Q:359:PRO:HB3	6:Q:366:LEU:HD22	1.97	0.47
5:S:159:PRO:HA	5:S:261:ASP:C	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:409:ILE:CG2	6:W:459:LEU:HD23	2.40	0.47
6:U:534:SER:HB2	6:W:161:LYS:O	2.15	0.47
6:U:622:GLU:C	6:V:280:LEU:HD12	2.40	0.47
6:V:565:LEU:HA	6:V:568:ARG:HD2	1.97	0.47
6:X:542:ARG:C	6:X:546:GLN:HE21	2.22	0.47
1:A:432:PHE:O	1:A:1007:PRO:HG3	2.15	0.47
1:A:472:ARG:NH2	1:A:473:ARG:HG3	2.29	0.47
1:A:914:VAL:O	1:A:917:LEU:HB3	2.15	0.47
2:B:249:TRP:HA	2:B:262:ARG:HH22	1.80	0.47
2:B:310:LYS:CB	2:B:399:ARG:NH1	2.77	0.47
2:B:310:LYS:CG	2:B:399:ARG:NH2	2.77	0.47
2:B:1099:ILE:O	2:B:1102:GLU:HB2	2.15	0.47
3:C:344:TYR:CE2	3:C:369:GLY:HA2	2.50	0.47
3:C:565:LYS:HA	3:C:568:PHE:CD2	2.50	0.47
3:C:673:ASN:HD22	3:C:674:ARG:HG2	1.80	0.47
4:D:266:TYR:OH	4:D:296:LEU:HB3	2.15	0.47
4:D:327:ASP:HB3	4:D:398:GLY:O	2.14	0.47
5:F:8:GLN:HA	5:F:11:HIS:HB2	1.96	0.47
5:F:204:ALA:HA	5:F:254:ALA:HB2	1.96	0.47
5:G:4:HIS:CE1	6:K:586:VAL:CB	2.98	0.47
5:G:51:PHE:O	5:G:66:GLN:HG3	2.15	0.47
5:G:81:SER:O	5:G:84:GLU:HB2	2.15	0.47
5:G:244:ASN:ND2	5:G:246:THR:HB	2.30	0.47
6:I:537:SER:HB2	6:K:165:THR:O	2.14	0.47
6:J:641:ILE:HG12	6:K:545:VAL:HG13	1.82	0.47
6:K:359:PRO:HB3	6:K:366:LEU:HD22	1.97	0.47
5:L:130:PHE:CE1	6:Q:368:THR:CG2	2.97	0.47
6:O:50:PRO:HD3	6:O:118:TYR:HE1	1.77	0.47
6:O:534:SER:HB2	6:Q:161:LYS:O	2.15	0.47
6:P:16:ASP:H	6:P:222:ASN:HB3	1.80	0.47
6:P:46:LYS:HA	6:P:72:SER:HA	1.97	0.47
6:P:165:THR:CA	6:Q:537:SER:OG	2.56	0.47
6:U:282:VAL:HG13	6:U:482:ASP:C	2.40	0.47
6:W:542:ARG:C	6:W:546:GLN:HE21	2.22	0.47
6:X:497:GLU:N	5:Y:5:MET:HE1	2.30	0.47
1:A:406:ASN:ND2	6:J:102:GLY:CA	2.75	0.46
3:C:282:TYR:HD1	3:C:284:ASP:HB2	1.78	0.46
3:C:634:GLN:HB3	3:C:635:GLN:NE2	2.30	0.46
5:F:130:PHE:CE1	6:K:368:THR:CG2	2.97	0.46
5:G:204:ALA:HA	5:G:254:ALA:HB2	1.97	0.46
5:H:27:ARG:NH2	5:H:27:ARG:HG2	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:H:82:LEU:O	5:H:85:VAL:HB	2.15	0.46
6:I:147:ARG:NH2	6:Q:100:LYS:HG3	2.29	0.46
6:I:412:ARG:N	6:K:459:LEU:CD1	2.65	0.46
6:I:419:MET:HG2	6:K:298:PHE:O	2.14	0.46
6:J:66:ASP:C	6:K:232:ALA:HB2	2.40	0.46
6:J:542:ARG:C	6:J:546:GLN:HE21	2.23	0.46
6:K:47:LEU:HD21	6:K:117:GLY:N	2.30	0.46
5:L:8:GLN:HA	5:L:11:HIS:HB2	1.97	0.46
5:L:49:CYS:SG	5:L:51:PHE:HB2	2.54	0.46
6:O:122:THR:HG23	6:P:90:ASN:CB	2.35	0.46
6:P:36:LEU:CD2	6:Q:242:PHE:CB	2.23	0.46
6:P:44:THR:HG1	6:Q:87:PHE:HE1	1.63	0.46
6:P:564:LEU:HB3	6:P:568:ARG:NH2	2.29	0.46
5:R:49:CYS:SG	5:R:51:PHE:HB2	2.55	0.46
5:R:84:GLU:CD	5:R:88:LYS:HZ3	2.23	0.46
5:S:84:GLU:CD	5:S:88:LYS:HZ3	2.23	0.46
6:U:47:LEU:HD13	6:U:115:THR:HG23	1.98	0.46
6:U:638:PHE:O	6:U:641:ILE:HB	2.15	0.46
6:W:537:SER:HB3	6:W:566:TRP:CH2	2.49	0.46
6:X:411:VAL:HB	6:X:412:ARG:HH21	1.80	0.46
1:A:134:PHE:CE1	1:A:158:TRP:CD1	3.04	0.46
2:B:404:MET:CE	4:D:46:ILE:C	2.88	0.46
4:E:33:TYR:HB3	4:E:40:ARG:HE	1.81	0.46
4:E:238:LYS:HB3	4:E:241:LEU:CD1	2.45	0.46
4:E:407:ALA:O	4:E:410:MET:HB2	2.15	0.46
5:G:213:THR:O	5:G:216:ILE:HG13	2.15	0.46
5:H:66:GLN:O	5:H:69:HIS:HB2	2.15	0.46
6:I:170:LEU:N	6:J:541:SER:OG	2.46	0.46
6:I:538:ALA:HA	6:K:168:THR:O	2.15	0.46
6:I:630:LEU:HD13	6:J:275:GLU:HB3	1.92	0.46
6:I:638:PHE:O	6:I:641:ILE:HB	2.15	0.46
6:K:327:TYR:HB2	6:K:445:ILE:HG22	1.96	0.46
5:L:81:SER:O	5:L:84:GLU:HB2	2.16	0.46
5:L:153:ASP:HB3	5:L:158:LEU:HB3	1.97	0.46
5:N:82:LEU:O	5:N:85:VAL:HB	2.16	0.46
6:O:506:ALA:HA	6:O:509:LEU:HD12	1.97	0.46
6:P:66:ASP:HB3	6:Q:232:ALA:HB1	1.82	0.46
6:Q:46:LYS:HA	6:Q:72:SER:HA	1.96	0.46
5:R:186:LEU:HB2	5:R:198:HIS:O	2.15	0.46
5:T:4:HIS:NE2	6:U:586:VAL:CA	2.78	0.46
5:T:132:THR:OG1	5:T:136:ASP:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:72:SER:OG	6:V:235:LEU:HD13	2.15	0.46
6:U:345:ILE:HA	6:U:428:ARG:CZ	2.44	0.46
6:U:419:MET:HE1	6:W:299:ILE:HD11	1.83	0.46
6:U:533:ASP:C	6:W:161:LYS:CE	2.83	0.46
6:V:66:ASP:C	6:W:232:ALA:HB2	2.40	0.46
6:W:345:ILE:HA	6:W:428:ARG:CZ	2.45	0.46
6:W:601:THR:O	6:W:604:VAL:HG12	2.16	0.46
6:X:61:LEU:HG	6:X:127:LEU:HD23	1.98	0.46
6:X:494:THR:O	6:X:498:VAL:HG23	2.15	0.46
1:A:19:ARG:HB3	1:A:285:LEU:HG	1.97	0.46
2:B:223:THR:HA	2:B:1152:ALA:HB3	1.96	0.46
2:B:774:LEU:CD1	2:B:774:LEU:C	2.79	0.46
2:B:1147:PHE:HA	2:B:1168:ARG:NH2	2.31	0.46
3:C:560:LEU:HA	3:C:563:MET:SD	2.56	0.46
3:C:643:ALA:HA	3:C:646:ILE:HD12	1.97	0.46
3:C:946:VAL:O	3:C:946:VAL:CG2	2.60	0.46
5:F:25:TYR:CD2	5:F:40:TYR:CZ	3.03	0.46
5:F:213:THR:O	5:F:216:ILE:HG13	2.15	0.46
5:G:153:ASP:HB3	5:G:158:LEU:HB3	1.97	0.46
6:I:161:LYS:CE	6:J:533:ASP:C	2.79	0.46
6:I:168:THR:HA	6:I:171:THR:HB	1.97	0.46
6:I:412:ARG:HA	6:K:456:ASN:OD1	1.88	0.46
6:I:459:LEU:HD23	6:J:409:ILE:CG2	2.43	0.46
6:I:545:VAL:HG22	6:K:641:ILE:HG12	1.96	0.46
5:L:139:SER:HA	5:L:195:LEU:HD22	1.97	0.46
5:M:213:THR:O	5:M:216:ILE:HG13	2.15	0.46
5:N:38:ALA:N	5:N:50:ALA:HB3	2.31	0.46
5:N:153:ASP:HB3	5:N:158:LEU:HB3	1.98	0.46
6:O:193:ILE:C	6:P:562:TYR:CD1	2.42	0.46
6:P:146:GLN:HE22	6:Q:241:ALA:HB1	1.81	0.46
5:R:154:GLY:H	5:R:157:HIS:HB2	1.81	0.46
5:S:162:SER:CB	5:S:264:GLN:HB3	2.46	0.46
5:T:213:THR:O	5:T:216:ILE:HG13	2.15	0.46
6:U:545:VAL:HB	6:W:637:PHE:HE1	1.79	0.46
6:V:484:ILE:HG22	6:V:486:PRO:HD3	1.97	0.46
6:V:542:ARG:C	6:V:546:GLN:HE21	2.23	0.46
5:Y:132:THR:OG1	5:Y:136:ASP:HA	2.15	0.46
1:A:459:ASP:OD2	1:A:625:ARG:HB2	2.15	0.46
1:A:713:VAL:HG22	1:A:735:LEU:HD13	1.98	0.46
1:A:1152:ASP:HA	1:A:1192:LEU:O	2.16	0.46
2:B:249:TRP:CA	2:B:262:ARG:HH22	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:725:THR:O	2:B:729:MET:HG3	2.15	0.46
3:C:438:PRO:HA	4:E:184:HIS:HE2	1.80	0.46
3:C:714:SER:C	3:C:716:ASN:N	2.73	0.46
4:D:58:TYR:CD1	4:D:64:ARG:HD2	2.51	0.46
4:E:214:ILE:HG22	4:E:234:PHE:CD1	2.51	0.46
5:G:8:GLN:HA	5:G:11:HIS:HB2	1.96	0.46
5:G:132:THR:OG1	5:G:136:ASP:HA	2.16	0.46
5:H:18:ALA:O	5:H:83:VAL:HG11	2.15	0.46
6:I:18:ASN:HB3	6:I:221:GLY:CA	2.46	0.46
6:I:630:LEU:CG	6:J:275:GLU:HG2	2.42	0.46
6:K:75:ASN:HB3	6:K:78:MET:CB	2.43	0.46
6:K:334:GLY:N	6:K:335:PRO:HD3	2.31	0.46
5:M:8:GLN:HA	5:M:11:HIS:HB2	1.98	0.46
6:O:407:LEU:O	6:Q:298:PHE:HD2	1.98	0.46
6:O:484:ILE:HG22	6:O:486:PRO:HD3	1.97	0.46
6:Q:189:PHE:CD1	6:Q:645:TRP:HB3	2.51	0.46
5:R:38:ALA:N	5:R:50:ALA:HB3	2.31	0.46
5:R:159:PRO:HA	5:R:261:ASP:C	2.39	0.46
5:S:142:ALA:HB2	5:S:145:ARG:HH11	1.79	0.46
5:S:204:ALA:HA	5:S:254:ALA:HB2	1.97	0.46
5:T:186:LEU:HB2	5:T:198:HIS:O	2.16	0.46
6:U:419:MET:HG2	6:W:298:PHE:O	2.15	0.46
6:V:189:PHE:CD1	6:V:645:TRP:HB3	2.51	0.46
6:W:11:TYR:HB3	6:W:223:PRO:HB3	1.97	0.46
5:Y:81:SER:O	5:Y:84:GLU:HB2	2.16	0.46
1:A:111:ARG:HB3	1:A:139:PHE:CE1	2.51	0.46
1:A:359:TYR:O	1:A:361:PRO:HD3	2.15	0.46
1:A:469:ARG:HB3	1:A:473:ARG:HH22	1.81	0.46
2:B:309:LEU:HA	2:B:399:ARG:HH11	1.72	0.46
2:B:311:ILE:HG13	2:B:402:TYR:HE2	1.80	0.46
2:B:511:ILE:O	2:B:515:LEU:HG	2.15	0.46
2:B:815:PRO:HA	2:B:818:ILE:HD12	1.96	0.46
3:C:377:ILE:HG22	3:C:380:GLU:CA	2.44	0.46
3:C:831:LEU:HA	3:C:836:HIS:NE2	2.30	0.46
4:E:112:TRP:HZ3	4:E:114:VAL:HA	1.80	0.46
4:E:233:TYR:CE2	4:E:249:LYS:HB3	2.51	0.46
4:E:400:THR:CB	6:U:53:THR:HA	2.26	0.46
5:F:66:GLN:O	5:F:69:HIS:HB2	2.15	0.46
5:H:4:HIS:NE2	6:I:586:VAL:CA	2.78	0.46
6:I:32:PRO:CG	6:J:608:LEU:O	2.63	0.46
6:I:242:PHE:HZ	6:K:82:PHE:HE2	1.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:47:LEU:HD21	6:J:117:GLY:N	2.30	0.46
6:J:189:PHE:CD1	6:J:645:TRP:HB3	2.51	0.46
6:J:195:PRO:HB2	6:J:198:ASN:OD1	2.15	0.46
6:J:484:ILE:HG22	6:J:486:PRO:HD3	1.98	0.46
5:L:21:ARG:HA	5:L:21:ARG:CZ	2.46	0.46
5:L:49:CYS:O	5:L:52:CYS:SG	2.68	0.46
5:M:66:GLN:O	5:M:69:HIS:HB2	2.16	0.46
5:M:82:LEU:O	5:M:85:VAL:HB	2.16	0.46
5:M:193:GLY:HA2	6:O:364:PRO:HG2	1.70	0.46
6:O:75:ASN:HB3	6:O:78:MET:CB	2.43	0.46
6:O:90:ASN:HB2	6:Q:122:THR:CG2	2.41	0.46
6:O:168:THR:O	6:P:541:SER:CB	2.62	0.46
6:O:622:GLU:HB3	6:P:280:LEU:HA	1.96	0.46
6:P:189:PHE:CD1	6:P:645:TRP:HB3	2.50	0.46
5:R:44:GLY:CA	6:W:401:GLY:N	2.69	0.46
5:S:18:ALA:O	5:S:83:VAL:HG11	2.16	0.46
5:S:38:ALA:N	5:S:50:ALA:HB3	2.31	0.46
5:T:84:GLU:CD	5:T:88:LYS:HZ3	2.24	0.46
6:U:168:THR:O	6:V:541:SER:CB	2.63	0.46
6:U:443:PHE:CE1	6:U:454:PHE:HZ	2.34	0.46
6:U:459:LEU:HD23	6:V:409:ILE:CG2	2.42	0.46
6:V:359:PRO:HB3	6:V:366:LEU:HD22	1.98	0.46
6:V:622:GLU:HB2	6:W:281:PRO:CD	2.46	0.46
6:X:484:ILE:HG22	6:X:486:PRO:HD3	1.98	0.46
6:X:638:PHE:HA	6:X:641:ILE:HD12	1.96	0.46
5:Y:8:GLN:HA	5:Y:11:HIS:HB2	1.96	0.46
2:B:985:VAL:HB	2:B:1073:ARG:HG3	1.98	0.46
3:C:938:TYR:OH	3:C:946:VAL:HG12	1.97	0.46
3:C:1178:ARG:H	3:C:1178:ARG:CZ	2.29	0.46
4:D:379:ILE:HG13	6:P:55:VAL:HG12	1.97	0.46
5:F:130:PHE:HE1	6:K:368:THR:HG22	1.79	0.46
5:G:159:PRO:HA	5:G:261:ASP:C	2.40	0.46
5:H:3:LEU:C	5:H:4:HIS:CG	2.94	0.46
5:H:132:THR:OG1	5:H:136:ASP:HA	2.15	0.46
5:H:159:PRO:HA	5:H:261:ASP:C	2.40	0.46
6:I:418:ASN:CG	6:K:298:PHE:HB3	2.41	0.46
6:I:562:TYR:CG	6:K:195:PRO:CD	2.81	0.46
5:N:213:THR:O	5:N:216:ILE:HG13	2.15	0.46
6:O:46:LYS:HA	6:O:72:SER:HA	1.96	0.46
6:P:359:PRO:HB3	6:P:366:LEU:HD22	1.97	0.46
6:P:443:PHE:CE1	6:P:454:PHE:HZ	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:18:ALA:O	5:R:83:VAL:HG11	2.15	0.46
5:R:82:LEU:O	5:R:85:VAL:HB	2.15	0.46
5:R:132:THR:OG1	5:R:136:ASP:HA	2.16	0.46
5:R:142:ALA:HB2	5:R:145:ARG:HH11	1.80	0.46
5:S:8:GLN:HA	5:S:11:HIS:HB2	1.98	0.46
5:S:159:PRO:HG2	5:S:164:ASP:OD2	2.14	0.46
6:U:359:PRO:HB3	6:U:366:LEU:HD22	1.97	0.46
6:V:529:SER:HB3	6:W:473:GLU:HA	1.98	0.46
6:W:456:ASN:HD22	6:W:457:PRO:HD2	1.81	0.46
6:W:484:ILE:HG22	6:W:486:PRO:HD3	1.97	0.46
6:X:443:PHE:CE1	6:X:454:PHE:HZ	2.33	0.46
6:X:494:THR:N	5:Y:5:MET:HE2	2.31	0.46
5:Y:82:LEU:O	5:Y:85:VAL:HB	2.15	0.46
5:Y:204:ALA:HB2	5:Y:251:SER:O	2.16	0.46
1:A:63:PRO:HD3	1:A:66:ASN:OD1	2.16	0.46
1:A:472:ARG:HD3	1:A:689:ASP:HA	1.98	0.46
1:A:1233:ARG:CZ	1:A:1292:GLY:HA2	2.44	0.46
2:B:875:GLN:HA	2:B:875:GLN:HE21	1.81	0.46
2:B:906:ASN:OD1	2:B:920:LEU:HB2	2.16	0.46
3:C:498:THR:HA	3:C:505:THR:HG21	1.97	0.46
4:D:7:PHE:HZ	4:D:314:ASN:HB2	1.80	0.46
4:D:228:THR:HG21	4:D:251:ASN:O	2.16	0.46
4:E:266:TYR:HB2	4:E:323:VAL:HA	1.98	0.46
5:F:44:GLY:CA	6:K:401:GLY:N	2.68	0.46
5:F:162:SER:CB	5:F:264:GLN:HB3	2.46	0.46
5:G:18:ALA:O	5:G:83:VAL:HG11	2.16	0.46
5:H:38:ALA:N	5:H:50:ALA:HB3	2.30	0.46
5:H:44:GLY:HA3	6:J:401:GLY:N	2.30	0.46
6:I:47:LEU:HD21	6:I:117:GLY:N	2.31	0.46
6:I:61:LEU:HG	6:I:127:LEU:HD23	1.97	0.46
6:I:138:SER:HB3	6:I:141:GLN:OE1	2.16	0.46
6:I:407:LEU:O	6:K:298:PHE:HD2	1.98	0.46
6:I:409:ILE:O	6:I:414:GLN:HB2	2.16	0.46
6:I:622:GLU:C	6:J:280:LEU:HD12	2.41	0.46
6:K:565:LEU:HA	6:K:568:ARG:HD2	1.98	0.46
5:L:38:ALA:N	5:L:50:ALA:HB3	2.30	0.46
5:M:130:PHE:HE1	6:O:368:THR:HG22	1.80	0.46
5:N:21:ARG:CZ	5:N:21:ARG:HA	2.46	0.46
5:N:139:SER:HA	5:N:195:LEU:HD22	1.97	0.46
6:O:189:PHE:CD1	6:O:645:TRP:HB3	2.51	0.46
6:O:333:PRO:CD	6:P:411:VAL:HG13	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Q:11:TYR:HB3	6:Q:223:PRO:HB3	1.96	0.46
6:Q:61:LEU:HG	6:Q:127:LEU:HD23	1.98	0.46
6:Q:456:ASN:HD22	6:Q:457:PRO:HD2	1.81	0.46
6:Q:601:THR:O	6:Q:604:VAL:HG12	2.16	0.46
5:S:81:SER:O	5:S:84:GLU:HB2	2.15	0.46
5:T:5:MET:HE1	6:U:494:THR:HG1	1.80	0.46
5:T:272:VAL:HG23	5:T:273:GLU:OE1	2.16	0.46
6:V:46:LYS:HA	6:V:72:SER:HA	1.97	0.46
6:V:47:LEU:HD13	6:V:115:THR:HG23	1.98	0.46
6:V:644:LEU:HD23	6:W:548:LYS:HE3	1.81	0.46
5:Y:21:ARG:HA	5:Y:21:ARG:CZ	2.46	0.46
1:A:255:ILE:H	1:A:255:ILE:HD12	1.81	0.46
1:A:377:ARG:CG	6:I:51:VAL:HG11	2.45	0.46
1:A:805:VAL:HB	1:A:808:THR:OG1	2.16	0.46
3:C:377:ILE:HG21	3:C:381:VAL:C	2.38	0.46
4:D:389:PHE:H	6:P:55:VAL:N	1.95	0.46
6:I:195:PRO:HB2	6:I:198:ASN:OD1	2.15	0.46
6:I:443:PHE:CE1	6:I:454:PHE:HZ	2.34	0.46
6:I:534:SER:HB2	6:K:161:LYS:O	2.14	0.46
6:I:542:ARG:C	6:I:546:GLN:HE21	2.22	0.46
6:J:298:PHE:HZ	6:K:416:ARG:CA	2.09	0.46
6:J:622:GLU:OE1	6:K:281:PRO:HG3	2.15	0.46
6:K:16:ASP:H	6:K:222:ASN:HB3	1.80	0.46
5:M:38:ALA:N	5:M:50:ALA:HB3	2.30	0.46
5:M:84:GLU:CD	5:M:88:LYS:HZ3	2.23	0.46
5:M:153:ASP:HB3	5:M:158:LEU:HB3	1.98	0.46
6:O:47:LEU:HD13	6:O:115:THR:HG23	1.98	0.46
6:O:359:PRO:HB3	6:O:366:LEU:HD22	1.98	0.46
6:O:562:TYR:HH	6:Q:193:ILE:HB	1.66	0.46
6:P:216:PRO:HB3	6:P:233:HIS:CG	2.51	0.46
6:P:295:ARG:HH12	6:Q:354:SER:HB2	1.79	0.46
6:Q:327:TYR:HB2	6:Q:445:ILE:HG22	1.97	0.46
6:Q:484:ILE:HG22	6:Q:486:PRO:HD3	1.97	0.46
5:R:21:ARG:CZ	5:R:21:ARG:HA	2.46	0.46
5:T:66:GLN:O	5:T:69:HIS:HB2	2.15	0.46
6:U:18:ASN:HB3	6:U:221:GLY:CA	2.46	0.46
6:U:538:ALA:HA	6:W:168:THR:O	2.16	0.46
6:X:75:ASN:HB3	6:X:78:MET:CB	2.42	0.46
5:Y:162:SER:CB	5:Y:264:GLN:HB3	2.46	0.46
1:A:720:PHE:CD1	1:A:786:VAL:HG22	2.51	0.46
2:B:205:MET:O	2:B:243:ILE:HG22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:222:PHE:HB3	2:B:1152:ALA:O	2.16	0.46
2:B:1171:GLY:HA3	2:B:1179:VAL:CG1	2.46	0.46
3:C:619:GLY:HA3	4:D:168:ALA:HB2	1.98	0.46
3:C:918:ALA:C	3:C:920:LEU:H	2.24	0.46
3:C:1085:LEU:HD23	3:C:1117:PHE:HB2	1.98	0.46
5:F:27:ARG:NH2	5:F:27:ARG:HG2	2.29	0.46
5:F:38:ALA:N	5:F:50:ALA:HB3	2.30	0.46
5:F:194:LEU:HD13	6:K:448:PRO:HD2	1.97	0.46
5:G:84:GLU:CD	5:G:88:LYS:HZ3	2.24	0.46
5:H:139:SER:HA	5:H:195:LEU:HD22	1.97	0.46
6:I:84:LYS:NZ	6:K:43:PRO:HA	2.31	0.46
6:I:333:PRO:HB2	6:J:411:VAL:HG22	1.98	0.46
6:I:534:SER:CB	6:K:165:THR:HG22	1.70	0.46
6:J:18:ASN:HB3	6:J:221:GLY:CA	2.46	0.46
6:J:46:LYS:HA	6:J:72:SER:HA	1.98	0.46
6:J:193:ILE:CA	6:K:562:TYR:CZ	2.77	0.46
6:J:295:ARG:HH12	6:K:354:SER:HB2	1.80	0.46
6:J:622:GLU:HB2	6:K:280:LEU:HD12	1.79	0.46
6:J:641:ILE:HG12	6:K:545:VAL:HG22	1.98	0.46
6:K:280:LEU:HG	6:K:281:PRO:HD2	1.98	0.46
6:K:293:SER:HB3	6:K:463:LEU:HD21	1.98	0.46
5:L:132:THR:OG1	5:L:136:ASP:HA	2.15	0.46
5:M:159:PRO:HA	5:M:261:ASP:C	2.41	0.46
5:M:204:ALA:HA	5:M:254:ALA:HB2	1.97	0.46
5:N:81:SER:O	5:N:84:GLU:HB2	2.14	0.46
6:O:90:ASN:CB	6:Q:122:THR:HG23	2.43	0.46
6:O:414:GLN:HG3	6:Q:459:LEU:HD13	1.94	0.46
6:P:638:PHE:HA	6:P:641:ILE:HD12	1.98	0.46
6:Q:18:ASN:HB3	6:Q:221:GLY:CA	2.46	0.46
5:R:213:THR:O	5:R:216:ILE:HG13	2.15	0.46
6:U:242:PHE:CD2	6:W:41:LEU:HD22	2.42	0.46
6:U:447:SER:HA	6:U:448:PRO:HD3	1.71	0.46
6:V:47:LEU:HD21	6:V:117:GLY:N	2.30	0.46
6:V:161:LYS:C	6:W:534:SER:HG	2.15	0.46
6:V:459:LEU:HB2	6:W:414:GLN:NE2	1.92	0.46
6:W:565:LEU:HA	6:W:568:ARG:HD2	1.98	0.46
6:X:195:PRO:HB2	6:X:198:ASN:OD1	2.15	0.46
6:X:359:PRO:HB3	6:X:366:LEU:HD22	1.98	0.46
6:X:565:LEU:HA	6:X:568:ARG:HD2	1.97	0.46
1:A:184:ASP:H	1:A:185:PRO:CD	2.29	0.46
1:A:1157:CYS:HB3	1:A:1190:ARG:HD2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1287:TYR:CD2	1:A:1287:TYR:N	2.84	0.46
2:B:772:THR:HG21	2:B:778:ASP:O	2.15	0.46
3:C:314:SER:N	3:C:1196:ARG:CG	2.77	0.46
3:C:424:ALA:HA	3:C:757:VAL:CG2	2.45	0.46
4:E:62:ALA:HA	4:E:65:ASN:OD1	2.16	0.46
6:I:298:PHE:CB	6:J:419:MET:H	2.28	0.46
6:K:189:PHE:CD1	6:K:645:TRP:HB3	2.51	0.46
5:M:18:ALA:O	5:M:83:VAL:HG11	2.16	0.46
5:N:66:GLN:O	5:N:69:HIS:HB2	2.16	0.46
6:O:195:PRO:HB2	6:O:198:ASN:OD1	2.15	0.46
6:O:418:ASN:ND2	6:Q:300:LYS:HE2	2.16	0.46
6:O:419:MET:HG2	6:Q:298:PHE:O	2.15	0.46
6:O:459:LEU:HD13	6:P:412:ARG:O	2.13	0.46
6:P:48:TRP:O	6:P:49:ARG:HD2	2.16	0.46
6:Q:138:SER:HB3	6:Q:141:GLN:OE1	2.16	0.46
6:Q:562:TYR:H	6:Q:562:TYR:HD1	1.64	0.46
5:R:153:ASP:HB3	5:R:158:LEU:HB3	1.98	0.46
5:S:153:ASP:HB3	5:S:158:LEU:HB3	1.98	0.46
6:U:61:LEU:HG	6:U:127:LEU:HD23	1.98	0.46
6:U:418:ASN:CG	6:W:298:PHE:HB3	2.41	0.46
6:U:506:ALA:HA	6:U:509:LEU:HD12	1.98	0.46
6:W:47:LEU:HD21	6:W:117:GLY:N	2.30	0.46
6:X:138:SER:HB3	6:X:141:GLN:OE1	2.17	0.46
2:B:371:LEU:H	2:B:371:LEU:HD22	1.81	0.45
3:C:381:VAL:HG11	3:C:439:THR:HG1	1.77	0.45
3:C:450:ASP:HA	3:C:861:ARG:HD3	1.98	0.45
4:E:401:ALA:CB	6:U:51:VAL:O	2.62	0.45
5:G:162:SER:CB	5:G:264:GLN:HB3	2.46	0.45
5:G:272:VAL:HG23	5:G:273:GLU:OE1	2.16	0.45
6:J:161:LYS:HZ3	6:K:534:SER:N	1.97	0.45
6:J:506:ALA:HA	6:J:509:LEU:HD12	1.98	0.45
5:L:162:SER:CB	5:L:264:GLN:HB3	2.46	0.45
6:O:138:SER:HB3	6:O:141:GLN:OE1	2.16	0.45
6:O:601:THR:O	6:O:604:VAL:HG12	2.16	0.45
6:O:638:PHE:O	6:O:641:ILE:HB	2.16	0.45
6:P:28:SER:CB	6:Q:606:THR:HG22	2.26	0.45
6:P:29:THR:CA	6:Q:610:THR:HG23	2.45	0.45
6:P:195:PRO:HB2	6:P:198:ASN:OD1	2.16	0.45
6:P:484:ILE:HG22	6:P:486:PRO:HD3	1.98	0.45
6:P:529:SER:HB3	6:Q:473:GLU:HA	1.97	0.45
6:Q:565:LEU:HA	6:Q:568:ARG:HD2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:18:ALA:O	5:T:83:VAL:HG11	2.16	0.45
5:T:21:ARG:HA	5:T:21:ARG:CZ	2.46	0.45
6:U:138:SER:HB3	6:U:141:GLN:OE1	2.16	0.45
6:U:195:PRO:HB2	6:U:198:ASN:OD1	2.16	0.45
6:U:537:SER:HB3	6:U:566:TRP:CH2	2.51	0.45
6:V:327:TYR:HB2	6:V:445:ILE:HG22	1.97	0.45
6:V:506:ALA:HA	6:V:509:LEU:HD12	1.98	0.45
6:X:189:PHE:CD1	6:X:645:TRP:HB3	2.51	0.45
6:X:293:SER:HB3	6:X:463:LEU:HD21	1.98	0.45
5:Y:139:SER:HA	5:Y:195:LEU:HD22	1.98	0.45
2:B:194:ILE:HD13	2:B:194:ILE:H	1.80	0.45
2:B:257:ARG:NH2	2:B:309:LEU:HB2	2.27	0.45
2:B:440:ILE:HG22	2:B:1202:PRO:HG3	1.99	0.45
3:C:206:LEU:HD11	3:C:1190:LEU:HD13	1.98	0.45
3:C:679:TRP:CZ3	3:C:697:MET:HG3	2.51	0.45
4:D:373:MET:SD	4:D:374:LEU:HD22	2.56	0.45
4:E:90:ILE:HD11	4:E:100:LEU:HD13	1.98	0.45
4:E:112:TRP:CH2	4:E:115:ALA:HB3	2.51	0.45
4:E:336:ALA:N	6:U:55:VAL:CA	2.79	0.45
5:G:66:GLN:O	5:G:69:HIS:HB2	2.15	0.45
5:G:82:LEU:O	5:G:85:VAL:HB	2.15	0.45
5:H:153:ASP:HB3	5:H:158:LEU:HB3	1.98	0.45
5:H:204:ALA:HA	5:H:254:ALA:HB2	1.98	0.45
6:I:459:LEU:HD23	6:J:412:ARG:NH1	2.28	0.45
6:I:601:THR:O	6:I:604:VAL:HG12	2.16	0.45
6:J:72:SER:OG	6:K:235:LEU:CD1	2.64	0.45
6:J:165:THR:HG21	6:K:534:SER:HB3	1.84	0.45
6:J:216:PRO:HB3	6:J:233:HIS:CG	2.52	0.45
5:N:132:THR:OG1	5:N:136:ASP:HA	2.16	0.45
6:O:32:PRO:CG	6:P:608:LEU:O	2.64	0.45
6:O:61:LEU:HG	6:O:127:LEU:HD23	1.97	0.45
6:O:281:PRO:CD	6:Q:622:GLU:CB	2.87	0.45
6:O:474:THR:HG22	6:O:504:ASN:O	2.17	0.45
6:O:622:GLU:HG2	6:P:281:PRO:HD3	1.91	0.45
6:P:44:THR:CA	6:Q:84:LYS:CE	2.49	0.45
6:P:66:ASP:C	6:Q:232:ALA:HB2	2.41	0.45
6:P:100:LYS:N	6:P:100:LYS:HD2	2.31	0.45
6:Q:69:GLY:O	6:Q:71:TYR:CD2	2.70	0.45
5:S:8:GLN:O	5:S:11:HIS:HB2	2.15	0.45
5:T:162:SER:CB	5:T:264:GLN:HB3	2.46	0.45
6:U:298:PHE:CD2	6:V:416:ARG:O	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:601:THR:O	6:U:604:VAL:HG12	2.16	0.45
6:V:43:PRO:HA	6:W:84:LYS:NZ	2.30	0.45
6:V:72:SER:OG	6:W:235:LEU:CD1	2.64	0.45
6:V:121:ALA:HB1	6:W:87:PHE:CB	2.41	0.45
6:W:195:PRO:HB2	6:W:198:ASN:OD1	2.16	0.45
1:A:26:ARG:HA	1:A:26:ARG:NH2	2.31	0.45
1:A:295:PHE:CD2	1:A:352:TYR:CE2	3.05	0.45
2:B:404:MET:CB	4:D:46:ILE:HD11	2.44	0.45
2:B:576:THR:C	2:B:578:ASP:H	2.23	0.45
2:B:959:ARG:NH1	4:D:40:ARG:NE	2.64	0.45
3:C:20:ASN:C	3:C:23:PRO:HD2	2.41	0.45
3:C:411:GLN:HG3	3:C:445:PHE:HB2	1.97	0.45
3:C:1177:TYR:HA	3:C:1178:ARG:NH1	2.32	0.45
5:F:18:ALA:O	5:F:83:VAL:HG11	2.16	0.45
5:G:139:SER:HA	5:G:195:LEU:HD22	1.99	0.45
5:H:204:ALA:HB2	5:H:251:SER:O	2.17	0.45
6:J:29:THR:CA	6:K:610:THR:HG23	2.45	0.45
6:J:293:SER:HB3	6:J:463:LEU:HD21	1.98	0.45
6:J:565:LEU:HA	6:J:568:ARG:HD2	1.98	0.45
5:L:204:ALA:HA	5:L:254:ALA:HB2	1.97	0.45
5:N:18:ALA:O	5:N:83:VAL:HG11	2.16	0.45
5:N:204:ALA:HA	5:N:254:ALA:HB2	1.97	0.45
6:O:168:THR:HA	6:O:171:THR:HB	1.98	0.45
6:P:170:LEU:CA	6:Q:541:SER:HB3	2.44	0.45
5:T:27:ARG:NH2	5:T:27:ARG:HG2	2.30	0.45
5:T:147:HIS:HA	5:T:269:ASP:CG	2.42	0.45
6:U:533:ASP:CG	6:W:161:LYS:CD	2.65	0.45
6:V:193:ILE:O	6:V:194:LEU:C	2.54	0.45
6:V:601:THR:O	6:V:604:VAL:HG12	2.17	0.45
6:V:622:GLU:OE1	6:W:281:PRO:HG3	2.16	0.45
6:W:506:ALA:HA	6:W:509:LEU:HD12	1.98	0.45
6:X:216:PRO:HB3	6:X:233:HIS:CG	2.52	0.45
6:X:506:ALA:HA	6:X:509:LEU:HD12	1.98	0.45
5:Y:18:ALA:O	5:Y:83:VAL:HG11	2.16	0.45
5:Y:153:ASP:HB3	5:Y:158:LEU:HB3	1.98	0.45
1:A:377:ARG:NE	6:I:57:THR:HG22	2.23	0.45
1:A:828:LEU:HA	1:A:850:LEU:HD11	1.97	0.45
1:A:1194:PHE:C	1:A:1194:PHE:CD2	2.94	0.45
1:A:1249:HIS:HB2	1:A:1297:VAL:O	2.15	0.45
2:B:1147:PHE:CE1	2:B:1164:VAL:HG12	2.52	0.45
3:C:480:LEU:CD1	3:C:754:GLU:HG2	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:792:GLN:NE2	4:D:346:LEU:C	2.75	0.45
5:F:139:SER:HA	5:F:195:LEU:HD22	1.98	0.45
5:F:204:ALA:HB2	5:F:251:SER:O	2.17	0.45
6:I:160:GLN:CG	6:J:612:SER:HB2	2.04	0.45
6:I:298:PHE:CZ	6:J:416:ARG:HA	2.49	0.45
6:J:36:LEU:HB3	6:K:253:VAL:HG13	1.83	0.45
6:J:280:LEU:HG	6:J:281:PRO:HD2	1.99	0.45
6:J:622:GLU:HG2	6:K:279:PRO:C	2.41	0.45
5:L:4:HIS:ND1	6:P:586:VAL:HG22	2.09	0.45
5:L:66:GLN:O	5:L:69:HIS:HB2	2.16	0.45
5:L:204:ALA:HB2	5:L:251:SER:O	2.17	0.45
5:M:159:PRO:HG2	5:M:164:ASP:OD2	2.15	0.45
6:P:43:PRO:HA	6:Q:84:LYS:NZ	2.31	0.45
6:P:475:THR:O	6:P:505:ASP:HA	2.17	0.45
6:P:506:ALA:HA	6:P:509:LEU:HD12	1.98	0.45
6:P:644:LEU:HD23	6:Q:548:LYS:CE	2.20	0.45
5:R:8:GLN:HA	5:R:11:HIS:HB2	1.99	0.45
5:R:8:GLN:O	5:R:11:HIS:HB2	2.17	0.45
5:S:4:HIS:CG	6:W:586:VAL:CB	2.84	0.45
5:S:186:LEU:HB2	5:S:198:HIS:O	2.16	0.45
5:T:3:LEU:C	5:T:4:HIS:CG	2.94	0.45
6:U:275:GLU:HG2	6:W:630:LEU:CG	2.41	0.45
6:W:61:LEU:HG	6:W:127:LEU:HD23	1.98	0.45
6:X:69:GLY:O	6:X:71:TYR:CD2	2.70	0.45
5:Y:38:ALA:N	5:Y:50:ALA:HB3	2.30	0.45
1:A:614:GLY:O	1:A:662:ARG:HB2	2.16	0.45
1:A:928:ARG:HB3	1:A:930:TRP:NE1	2.31	0.45
1:A:936:PRO:HG2	1:A:940:VAL:HG12	1.99	0.45
1:A:986:LEU:O	1:A:1035:LEU:HD22	2.15	0.45
1:A:1043:PRO:HA	1:A:1102:PRO:HG2	1.99	0.45
2:B:404:MET:HE3	4:D:46:ILE:CA	2.47	0.45
2:B:454:GLN:HG3	2:B:458:HIS:NE2	2.31	0.45
3:C:544:VAL:O	3:C:813:VAL:HG22	2.17	0.45
3:C:594:ALA:O	3:C:596:PRO:HD2	2.15	0.45
3:C:626:LEU:HA	3:C:647:ARG:CZ	2.47	0.45
4:D:343:GLN:NE2	6:V:54:SER:CB	2.72	0.45
4:D:406:LEU:O	4:D:410:MET:HG3	2.17	0.45
4:E:277:GLN:OE1	4:E:280:GLU:HG3	2.16	0.45
5:F:84:GLU:CD	5:F:88:LYS:HZ3	2.25	0.45
5:H:8:GLN:O	5:H:11:HIS:HB2	2.16	0.45
5:H:84:GLU:CD	5:H:88:LYS:HZ3	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:H:186:LEU:HB2	5:H:198:HIS:O	2.16	0.45
6:I:242:PHE:CE1	6:K:36:LEU:CD1	2.98	0.45
6:I:473:GLU:HA	6:K:529:SER:CB	2.46	0.45
6:J:193:ILE:CG2	6:K:562:TYR:CD1	2.79	0.45
6:J:334:GLY:N	6:J:335:PRO:HD3	2.31	0.45
6:J:443:PHE:CE1	6:J:454:PHE:HZ	2.35	0.45
6:K:506:ALA:HA	6:K:509:LEU:HD12	1.98	0.45
6:K:638:PHE:HA	6:K:641:ILE:HD12	1.97	0.45
5:M:4:HIS:CE1	6:Q:587:GLY:HA2	2.44	0.45
5:M:130:PHE:CG	6:O:446:PRO:HB2	2.51	0.45
5:N:3:LEU:C	5:N:4:HIS:CG	2.94	0.45
6:O:188:ALA:HB3	6:O:647:GLY:CA	2.47	0.45
6:O:280:LEU:HG	6:O:281:PRO:HD2	1.99	0.45
6:P:33:ALA:CB	6:Q:256:SER:CA	2.84	0.45
6:P:97:GLN:HG3	6:P:103:CYS:SG	2.57	0.45
6:P:154:ARG:NH1	6:Q:246:THR:CB	2.62	0.45
6:P:619:ASP:N	6:Q:284:VAL:HG21	2.32	0.45
6:Q:245:ALA:HB1	6:Q:627:ARG:HH22	1.82	0.45
6:Q:472:ARG:HA	6:Q:472:ARG:HH11	1.82	0.45
5:R:244:ASN:ND2	5:R:246:THR:HB	2.31	0.45
5:T:44:GLY:HA3	6:V:401:GLY:N	2.30	0.45
6:U:534:SER:HG	6:W:161:LYS:C	2.18	0.45
6:U:622:GLU:CA	6:V:280:LEU:HD12	2.39	0.45
6:V:138:SER:HB3	6:V:141:GLN:OE1	2.16	0.45
6:V:355:GLY:O	6:V:416:ARG:HA	2.15	0.45
6:V:456:ASN:HD21	6:W:412:ARG:NE	2.15	0.45
6:V:459:LEU:CB	6:W:412:ARG:HE	2.25	0.45
6:W:47:LEU:HD13	6:W:115:THR:HG23	1.99	0.45
6:W:440:LEU:HG	6:W:441:GLY:H	1.82	0.45
6:W:474:THR:HG22	6:W:504:ASN:O	2.17	0.45
5:Y:84:GLU:CD	5:Y:88:LYS:HZ3	2.24	0.45
1:A:313:LEU:HA	1:A:316:GLN:HB2	1.97	0.45
1:A:445:ILE:HG13	1:A:446:SER:N	2.32	0.45
1:A:1195:VAL:CG1	1:A:1238:ARG:HH12	2.29	0.45
2:B:410:HIS:CE1	4:D:184:HIS:NE2	2.82	0.45
3:C:324:ILE:HG13	3:C:325:THR:N	2.32	0.45
3:C:1004:PHE:CE1	3:C:1044:ASP:HB3	2.51	0.45
3:C:1046:VAL:HG13	3:C:1075:LEU:HB3	1.99	0.45
4:D:86:SER:N	4:D:110:PRO:HB2	2.31	0.45
5:G:8:GLN:O	5:G:11:HIS:HB2	2.16	0.45
5:G:130:PHE:HE1	6:I:368:THR:HG22	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:186:LEU:HB2	5:G:198:HIS:O	2.17	0.45
6:I:165:THR:O	6:J:537:SER:HB3	2.14	0.45
6:I:333:PRO:CD	6:J:411:VAL:HG13	2.46	0.45
6:I:359:PRO:HB3	6:I:366:LEU:HD22	1.98	0.45
6:I:458:THR:HA	6:J:412:ARG:NE	2.11	0.45
6:I:506:ALA:HA	6:I:509:LEU:HD12	1.97	0.45
6:J:138:SER:HB3	6:J:141:GLN:OE1	2.17	0.45
6:K:195:PRO:HB2	6:K:198:ASN:OD1	2.17	0.45
6:K:456:ASN:HD22	6:K:457:PRO:HD2	1.81	0.45
5:M:132:THR:OG1	5:M:136:ASP:HA	2.16	0.45
5:M:154:GLY:H	5:M:157:HIS:HB2	1.82	0.45
6:O:36:LEU:O	6:O:36:LEU:HG	2.17	0.45
6:O:72:SER:OG	6:P:235:LEU:HD13	2.16	0.45
6:O:408:ALA:HA	6:O:416:ARG:O	2.17	0.45
6:O:482:ASP:OD1	6:Q:530:ARG:NH2	2.50	0.45
6:P:47:LEU:HD21	6:P:117:GLY:N	2.31	0.45
6:P:72:SER:OG	6:Q:235:LEU:CD1	2.64	0.45
6:P:75:ASN:HB3	6:P:78:MET:CB	2.43	0.45
6:P:640:GLN:OE1	6:Q:545:VAL:CG1	2.49	0.45
5:S:204:ALA:HB2	5:S:251:SER:O	2.17	0.45
6:U:484:ILE:HG22	6:U:486:PRO:HD3	1.98	0.45
6:U:565:LEU:HA	6:U:568:ARG:HD2	1.97	0.45
6:V:622:GLU:CD	6:W:281:PRO:HD3	2.41	0.45
6:W:443:PHE:CE1	6:W:454:PHE:HZ	2.35	0.45
6:W:638:PHE:HA	6:W:641:ILE:HD12	1.98	0.45
5:Y:154:GLY:H	5:Y:157:HIS:HB2	1.81	0.45
5:Y:186:LEU:HB2	5:Y:198:HIS:O	2.16	0.45
2:B:404:MET:SD	4:D:46:ILE:CB	3.04	0.45
2:B:784:LEU:HG	2:B:806:THR:HA	1.98	0.45
2:B:868:ARG:CD	2:B:879:PHE:CD1	2.99	0.45
3:C:995:PRO:HD2	3:C:1118:CYS:O	2.17	0.45
4:D:5:GLN:C	4:D:7:PHE:H	2.23	0.45
4:D:390:ASN:N	6:P:55:VAL:CG2	2.80	0.45
5:G:3:LEU:C	5:G:4:HIS:CG	2.95	0.45
6:I:161:LYS:CD	6:J:534:SER:H	2.30	0.45
6:J:18:ASN:HB3	6:J:221:GLY:HA2	1.97	0.45
6:J:622:GLU:CD	6:K:281:PRO:HD3	2.41	0.45
6:K:138:SER:HB3	6:K:141:GLN:OE1	2.16	0.45
6:K:474:THR:HG22	6:K:504:ASN:O	2.16	0.45
5:M:8:GLN:O	5:M:11:HIS:HB2	2.16	0.45
6:O:242:PHE:CE1	6:Q:36:LEU:CD1	2.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:245:ALA:HB1	6:O:627:ARG:HH22	1.82	0.45
6:O:333:PRO:CB	6:P:411:VAL:HG22	2.47	0.45
6:O:609:ARG:C	6:Q:32:PRO:CG	2.79	0.45
6:P:447:SER:HA	6:P:448:PRO:HD3	1.71	0.45
6:P:622:GLU:CB	6:Q:280:LEU:CD1	2.56	0.45
6:P:622:GLU:OE1	6:Q:281:PRO:HG3	2.16	0.45
6:P:622:GLU:HB2	6:Q:281:PRO:CD	2.45	0.45
6:Q:334:GLY:N	6:Q:335:PRO:HD3	2.31	0.45
5:S:132:THR:OG1	5:S:136:ASP:HA	2.17	0.45
5:S:139:SER:HA	5:S:195:LEU:HD22	1.99	0.45
6:U:160:GLN:CG	6:V:612:SER:HB2	2.04	0.45
6:U:562:TYR:CG	6:W:195:PRO:CD	2.81	0.45
6:V:18:ASN:HB3	6:V:221:GLY:CA	2.47	0.45
6:V:69:GLY:O	6:V:71:TYR:CD2	2.70	0.45
6:V:165:THR:O	6:W:537:SER:OG	2.35	0.45
6:V:195:PRO:HB2	6:V:198:ASN:OD1	2.16	0.45
6:V:409:ILE:O	6:V:414:GLN:HB2	2.17	0.45
6:V:456:ASN:CG	6:W:412:ARG:CD	2.70	0.45
6:V:640:GLN:HE21	6:V:644:LEU:HD12	1.82	0.45
6:W:18:ASN:HB3	6:W:221:GLY:CA	2.46	0.45
6:W:18:ASN:HB3	6:W:221:GLY:HA2	1.99	0.45
6:W:359:PRO:HB3	6:W:366:LEU:HD22	1.97	0.45
6:X:97:GLN:HG3	6:X:103:CYS:SG	2.57	0.45
6:X:282:VAL:HG13	6:X:482:ASP:C	2.41	0.45
5:Y:272:VAL:HG23	5:Y:273:GLU:OE1	2.17	0.45
1:A:1089:TYR:HA	1:A:1096:PHE:CE2	2.52	0.45
2:B:796:ALA:O	2:B:800:ILE:HB	2.17	0.45
2:B:858:VAL:HA	2:B:861:ARG:NH1	2.32	0.45
3:C:617:HIS:CD2	3:C:619:GLY:H	2.35	0.45
4:D:7:PHE:CZ	4:D:314:ASN:HB2	2.52	0.45
4:D:206:SER:HA	4:D:209:ARG:NE	2.31	0.45
5:F:8:GLN:O	5:F:11:HIS:HB2	2.17	0.45
6:I:18:ASN:HB3	6:I:221:GLY:HA2	1.98	0.45
6:I:188:ALA:HB3	6:I:647:GLY:CA	2.47	0.45
6:I:334:GLY:N	6:I:335:PRO:HD3	2.32	0.45
6:I:610:THR:HG23	6:K:29:THR:CA	2.47	0.45
6:J:409:ILE:O	6:J:414:GLN:HB2	2.17	0.45
6:K:61:LEU:HG	6:K:127:LEU:HD23	1.98	0.45
5:L:186:LEU:HB2	5:L:198:HIS:O	2.17	0.45
5:M:21:ARG:CZ	5:M:21:ARG:HA	2.47	0.45
5:M:272:VAL:HG23	5:M:273:GLU:OE1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:84:LYS:HG3	6:Q:42:ASN:OD1	2.16	0.45
6:O:275:GLU:HG2	6:Q:630:LEU:CG	2.41	0.45
6:O:447:SER:HA	6:O:448:PRO:HD3	1.71	0.45
6:O:457:PRO:O	6:O:458:THR:HB	2.17	0.45
6:O:618:THR:C	6:P:281:PRO:CG	2.85	0.45
6:O:622:GLU:C	6:P:280:LEU:HD12	2.40	0.45
6:P:147:ARG:NH1	6:W:100:LYS:HG3	2.31	0.45
6:Q:97:GLN:HG3	6:Q:103:CYS:SG	2.57	0.45
6:U:36:LEU:CD1	6:V:242:PHE:CG	2.86	0.45
6:U:333:PRO:CD	6:V:411:VAL:HG13	2.46	0.45
6:U:610:THR:HG23	6:W:29:THR:CA	2.47	0.45
6:U:618:THR:C	6:V:281:PRO:CG	2.85	0.45
6:V:293:SER:HB3	6:V:463:LEU:HD21	1.99	0.45
6:W:138:SER:HB3	6:W:141:GLN:OE1	2.17	0.45
6:X:494:THR:HG23	5:Y:5:MET:HG3	1.32	0.45
1:A:501:VAL:HA	1:A:508:PRO:HA	1.99	0.45
2:B:291:LEU:HB3	2:B:891:PHE:N	2.32	0.45
2:B:1201:TYR:HA	2:B:1202:PRO:HD2	1.89	0.45
3:C:1045:TRP:O	3:C:1074:VAL:HA	2.17	0.45
3:C:1063:VAL:O	3:C:1067:VAL:HG23	2.17	0.45
4:E:37:TRP:HB2	4:E:68:VAL:HG21	1.98	0.45
4:E:253:GLY:H	4:E:255:ARG:CZ	2.30	0.45
4:E:338:HIS:HA	4:E:341:TRP:CE3	2.51	0.45
5:H:8:GLN:HA	5:H:11:HIS:HB2	1.98	0.45
6:I:147:ARG:NH1	6:Q:100:LYS:HG2	2.29	0.45
6:J:121:ALA:HB1	6:K:87:PHE:CB	2.43	0.45
6:J:359:PRO:HB3	6:J:366:LEU:HD22	1.98	0.45
6:J:494:THR:O	6:J:498:VAL:HG23	2.17	0.45
6:K:69:GLY:O	6:K:71:TYR:CD2	2.70	0.45
6:K:484:ILE:HG22	6:K:486:PRO:HD3	1.99	0.45
5:N:8:GLN:O	5:N:11:HIS:HB2	2.16	0.45
5:N:186:LEU:HB2	5:N:198:HIS:O	2.16	0.45
6:O:69:GLY:O	6:O:71:TYR:CD2	2.70	0.45
6:O:293:SER:HB3	6:O:463:LEU:HD21	1.99	0.45
6:O:377:GLN:HB2	6:O:393:ALA:HB3	1.99	0.45
6:O:416:ARG:O	6:Q:298:PHE:CE1	2.58	0.45
6:O:443:PHE:CE1	6:O:454:PHE:HZ	2.35	0.45
6:O:533:ASP:C	6:Q:161:LYS:NZ	2.75	0.45
6:O:537:SER:OG	6:Q:165:THR:C	2.60	0.45
6:P:564:LEU:HA	6:P:567:ARG:NH1	2.32	0.45
6:P:565:LEU:HA	6:P:568:ARG:HD2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Q:18:ASN:HB3	6:Q:221:GLY:HA2	1.98	0.45
6:Q:195:PRO:HB2	6:Q:198:ASN:OD1	2.17	0.45
5:R:66:GLN:O	5:R:69:HIS:HB2	2.16	0.45
5:R:272:VAL:HG23	5:R:273:GLU:OE1	2.17	0.45
5:T:8:GLN:HA	5:T:11:HIS:HB2	1.98	0.45
5:T:154:GLY:H	5:T:157:HIS:HB2	1.81	0.45
6:U:170:LEU:N	6:V:541:SER:OG	2.46	0.45
6:U:195:PRO:HG3	6:V:562:TYR:HB2	1.92	0.45
6:U:216:PRO:HB3	6:U:233:HIS:CG	2.52	0.45
6:U:529:SER:HB3	6:V:473:GLU:CA	2.46	0.45
6:W:189:PHE:CD1	6:W:645:TRP:HB3	2.51	0.45
5:Y:66:GLN:O	5:Y:69:HIS:HB2	2.16	0.45
1:A:553:GLN:O	1:A:561:GLY:HA3	2.17	0.45
1:A:610:THR:HG21	1:A:662:ARG:HD2	1.98	0.45
1:A:927:THR:O	1:A:1029:ASP:HA	2.16	0.45
2:B:384:MET:CE	2:B:1197:TYR:CE1	2.58	0.45
5:F:132:THR:OG1	5:F:136:ASP:HA	2.16	0.45
5:G:147:HIS:HA	5:G:269:ASP:CG	2.42	0.45
5:H:21:ARG:CZ	5:H:21:ARG:HA	2.47	0.45
6:I:97:GLN:HG3	6:I:103:CYS:SG	2.57	0.45
6:J:61:LEU:HG	6:J:127:LEU:HD23	1.98	0.45
6:J:298:PHE:CE1	6:K:416:ARG:CB	2.96	0.45
6:J:529:SER:HB3	6:K:473:GLU:HA	1.98	0.45
6:K:18:ASN:HB3	6:K:221:GLY:CA	2.47	0.45
6:K:216:PRO:HB3	6:K:233:HIS:CG	2.52	0.45
5:M:139:SER:HA	5:M:195:LEU:HD22	1.98	0.45
5:N:159:PRO:HA	5:N:261:ASP:C	2.41	0.45
6:O:195:PRO:HG3	6:P:562:TYR:HB2	1.94	0.45
6:O:418:ASN:CG	6:Q:298:PHE:HB3	2.42	0.45
6:P:422:LEU:HD23	6:P:422:LEU:HA	1.84	0.45
6:P:622:GLU:CD	6:Q:281:PRO:HD3	2.41	0.45
6:Q:47:LEU:HD13	6:Q:115:THR:HG23	1.98	0.45
6:Q:447:SER:HA	6:Q:448:PRO:HD3	1.72	0.45
5:T:8:GLN:O	5:T:11:HIS:HB2	2.16	0.45
5:T:153:ASP:HB3	5:T:158:LEU:HB3	1.98	0.45
6:U:18:ASN:HB3	6:U:221:GLY:HA2	1.99	0.45
6:U:28:SER:HB2	6:V:606:THR:HG21	1.91	0.45
6:U:188:ALA:HB3	6:U:647:GLY:CA	2.47	0.45
6:U:189:PHE:CD1	6:U:645:TRP:HB3	2.51	0.45
6:U:409:ILE:O	6:U:414:GLN:HB2	2.17	0.45
6:U:562:TYR:HB2	6:W:195:PRO:HG3	1.91	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:280:LEU:HG	6:V:281:PRO:HD2	1.99	0.45
6:V:443:PHE:CE1	6:V:454:PHE:HZ	2.35	0.45
6:W:69:GLY:O	6:W:71:TYR:CD2	2.70	0.45
6:W:293:SER:HB3	6:W:463:LEU:HD21	1.98	0.45
5:Y:8:GLN:O	5:Y:11:HIS:HB2	2.17	0.45
1:A:67:ALA:HB3	1:A:119:GLY:C	2.42	0.44
1:A:150:ALA:O	1:A:154:PHE:CE1	2.70	0.44
1:A:1002:ILE:HG12	1:A:1008:LEU:HD21	1.98	0.44
1:A:1251:THR:HA	1:A:1255:ASN:O	2.17	0.44
2:B:687:LEU:HG	2:B:688:THR:N	2.23	0.44
3:C:899:ALA:HB2	3:C:929:PRO:HG3	1.98	0.44
3:C:989:THR:HG23	3:C:992:ASN:HB2	1.99	0.44
3:C:1208:MET:SD	3:C:1208:MET:N	2.90	0.44
4:D:375:VAL:HG22	4:D:379:ILE:HG12	1.98	0.44
4:E:242:ASN:OD1	4:E:360:THR:HG23	2.17	0.44
5:F:147:HIS:HA	5:F:269:ASP:CG	2.42	0.44
6:I:216:PRO:HB3	6:I:233:HIS:CG	2.52	0.44
6:I:412:ARG:HH12	6:K:459:LEU:HD23	1.80	0.44
6:I:565:LEU:HA	6:I:568:ARG:HD2	1.97	0.44
6:I:625:ARG:NH1	6:J:277:ASP:H	2.09	0.44
6:J:601:THR:O	6:J:604:VAL:HG12	2.16	0.44
6:K:443:PHE:CE1	6:K:454:PHE:HZ	2.35	0.44
6:K:601:THR:O	6:K:604:VAL:HG12	2.17	0.44
5:L:34:ASN:ND2	5:L:34:ASN:H	2.16	0.44
5:N:204:ALA:HB2	5:N:251:SER:O	2.17	0.44
6:O:627:ARG:HD3	6:P:272:ASP:CG	2.42	0.44
6:P:18:ASN:HB3	6:P:221:GLY:CA	2.46	0.44
6:P:138:SER:HB3	6:P:141:GLN:OE1	2.16	0.44
6:Q:638:PHE:HA	6:Q:641:ILE:HD12	1.98	0.44
5:S:147:HIS:HA	5:S:269:ASP:CG	2.42	0.44
5:T:130:PHE:HE1	6:V:368:THR:CG2	2.30	0.44
5:T:204:ALA:HB2	5:T:251:SER:O	2.17	0.44
6:U:165:THR:O	6:V:537:SER:HB3	2.14	0.44
6:U:254:GLY:CA	6:V:267:ALA:HB1	2.36	0.44
6:U:457:PRO:O	6:U:458:THR:HB	2.18	0.44
6:U:537:SER:HB2	6:W:169:MET:H	1.77	0.44
6:U:622:GLU:OE1	6:V:281:PRO:CG	2.66	0.44
6:V:334:GLY:N	6:V:335:PRO:HD3	2.31	0.44
6:V:555:ALA:O	6:V:557:PRO:HD3	2.17	0.44
6:W:36:LEU:O	6:W:36:LEU:HG	2.18	0.44
1:A:46:ALA:HB2	1:A:59:ILE:HG23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:404:TYR:HA	1:A:780:LEU:HA	1.99	0.44
1:A:548:PRO:HB2	1:A:551:ILE:HD11	1.99	0.44
1:A:998:LEU:O	1:A:1002:ILE:HG13	2.17	0.44
1:A:1268:PRO:HD2	1:A:1271:VAL:CG2	2.48	0.44
2:B:321:VAL:HG11	3:C:891:PHE:CD1	2.52	0.44
2:B:514:ILE:O	2:B:518:LEU:HG	2.17	0.44
2:B:646:ILE:O	2:B:650:TRP:HB2	2.17	0.44
2:B:1211:ARG:HH12	3:C:611:PRO:HG3	1.82	0.44
4:E:152:ASP:N	4:E:306:PRO:HG3	2.32	0.44
5:F:154:GLY:H	5:F:157:HIS:HB2	1.82	0.44
5:G:204:ALA:HB2	5:G:251:SER:O	2.17	0.44
6:I:189:PHE:CD1	6:I:645:TRP:HB3	2.51	0.44
6:I:409:ILE:CG2	6:K:459:LEU:HD23	2.41	0.44
6:I:414:GLN:HG3	6:K:459:LEU:HD13	1.96	0.44
6:I:537:SER:HB3	6:I:566:TRP:CH2	2.52	0.44
6:J:28:SER:CB	6:K:606:THR:CG2	2.88	0.44
6:J:245:ALA:HB1	6:J:627:ARG:HH22	1.81	0.44
6:J:447:SER:HA	6:J:448:PRO:HD3	1.71	0.44
6:J:640:GLN:HE21	6:J:644:LEU:HD12	1.83	0.44
6:K:18:ASN:HB3	6:K:221:GLY:HA2	1.99	0.44
6:K:475:THR:O	6:K:505:ASP:HA	2.17	0.44
6:K:555:ALA:O	6:K:557:PRO:HD3	2.17	0.44
5:M:204:ALA:HB2	5:M:251:SER:O	2.17	0.44
5:N:272:VAL:HG23	5:N:273:GLU:OE1	2.17	0.44
6:O:456:ASN:HD21	6:P:412:ARG:CA	1.92	0.44
6:P:69:GLY:O	6:P:71:TYR:CD2	2.71	0.44
6:Q:443:PHE:CE1	6:Q:454:PHE:HZ	2.35	0.44
6:Q:506:ALA:HA	6:Q:509:LEU:HD12	1.98	0.44
6:Q:555:ALA:O	6:Q:557:PRO:HD3	2.17	0.44
5:R:131:ARG:NE	6:W:448:PRO:HG2	2.20	0.44
6:V:195:PRO:CG	6:W:562:TYR:CB	2.60	0.44
6:W:327:TYR:HB2	6:W:445:ILE:HG22	1.98	0.44
6:W:334:GLY:N	6:W:335:PRO:HD3	2.33	0.44
5:Y:41:VAL:HB	5:Y:48:ILE:HB	1.99	0.44
1:A:48:ASP:HA	1:A:56:ALA:N	2.32	0.44
1:A:582:LEU:HD23	1:A:621:ASN:ND2	2.30	0.44
1:A:1242:PRO:HG3	1:A:1296:TYR:HE2	1.82	0.44
2:B:454:GLN:HG3	2:B:458:HIS:CD2	2.52	0.44
2:B:959:ARG:HH22	4:D:40:ARG:CB	2.29	0.44
2:B:1050:ASP:HA	2:B:1053:GLN:HB2	1.98	0.44
3:C:170:LEU:HD12	3:C:171:SER:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:578:ASP:HA	3:C:579:PRO:HD2	1.85	0.44
4:D:11:TYR:HB2	4:D:69:ASN:HD21	1.83	0.44
4:D:60:SER:H	4:D:63:SER:HB2	1.82	0.44
5:G:38:ALA:N	5:G:50:ALA:HB3	2.31	0.44
6:I:69:GLY:O	6:I:71:TYR:CD2	2.70	0.44
6:I:193:ILE:HB	6:J:562:TYR:HH	1.66	0.44
6:I:533:ASP:C	6:K:161:LYS:NZ	2.75	0.44
6:I:622:GLU:OE1	6:J:281:PRO:CG	2.65	0.44
6:J:295:ARG:HH12	6:K:419:MET:HA	1.69	0.44
5:L:8:GLN:O	5:L:11:HIS:HB2	2.17	0.44
5:L:18:ALA:O	5:L:83:VAL:HG11	2.16	0.44
5:L:154:GLY:H	5:L:157:HIS:HB2	1.82	0.44
6:O:216:PRO:HB3	6:O:233:HIS:CG	2.52	0.44
6:O:419:MET:H	6:Q:298:PHE:CB	2.27	0.44
6:O:537:SER:HB3	6:O:566:TRP:CH2	2.52	0.44
6:P:100:LYS:HD3	6:W:147:ARG:HG2	1.66	0.44
6:P:193:ILE:O	6:P:194:LEU:C	2.53	0.44
6:U:75:ASN:HB3	6:U:78:MET:CB	2.42	0.44
6:U:275:GLU:HB3	6:W:630:LEU:HD13	1.93	0.44
6:U:472:ARG:HD2	6:W:530:ARG:H	1.69	0.44
6:V:75:ASN:HB3	6:V:78:MET:CB	2.43	0.44
6:V:638:PHE:HA	6:V:641:ILE:HD12	1.98	0.44
6:X:47:LEU:HD13	6:X:115:THR:HG23	1.99	0.44
6:X:189:PHE:CG	6:X:645:TRP:HB3	2.53	0.44
1:A:192:ALA:HB1	1:A:194:TYR:CE1	2.52	0.44
1:A:522:SER:HA	1:A:557:ASP:O	2.18	0.44
1:A:747:THR:O	1:A:757:THR:HA	2.18	0.44
1:A:1162:GLN:HE22	1:A:1190:ARG:CZ	2.31	0.44
2:B:452:ARG:HE	2:B:667:ASN:C	2.25	0.44
2:B:581:SER:N	2:B:582:PRO:HD2	2.33	0.44
2:B:1064:TRP:CZ3	2:B:1100:LEU:HD23	2.52	0.44
3:C:407:ARG:NH1	4:E:180:VAL:CG2	2.75	0.44
4:D:205:VAL:HG21	4:D:293:VAL:HG11	2.00	0.44
5:F:21:ARG:HA	5:F:21:ARG:CZ	2.48	0.44
5:H:130:PHE:HE1	6:J:368:THR:CG2	2.30	0.44
5:H:275:SER:C	5:H:276:ASP:O	2.61	0.44
6:I:44:THR:HG1	6:J:84:LYS:HD3	1.74	0.44
6:I:193:ILE:HG23	6:J:562:TYR:CE1	2.25	0.44
6:I:537:SER:HB2	6:K:169:MET:H	1.78	0.44
6:K:481:VAL:C	6:K:483:ALA:H	2.26	0.44
5:L:147:HIS:HA	5:L:269:ASP:CG	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:18:ASN:HB3	6:O:221:GLY:CA	2.46	0.44
6:O:18:ASN:HB3	6:O:221:GLY:HA2	2.00	0.44
6:O:66:ASP:CA	6:P:232:ALA:HB2	2.43	0.44
6:O:334:GLY:N	6:O:335:PRO:HD3	2.32	0.44
6:O:610:THR:HG23	6:Q:29:THR:CA	2.46	0.44
6:P:245:ALA:HB1	6:P:627:ARG:HH22	1.82	0.44
6:P:474:THR:HG22	6:P:504:ASN:O	2.18	0.44
6:P:542:ARG:HG3	6:P:546:GLN:NE2	2.33	0.44
6:Q:422:LEU:HD23	6:Q:422:LEU:HA	1.83	0.44
5:R:162:SER:CB	5:R:264:GLN:HB3	2.46	0.44
5:S:21:ARG:CZ	5:S:21:ARG:HA	2.47	0.44
5:S:275:SER:C	5:S:276:ASP:O	2.61	0.44
5:T:131:ARG:NE	6:V:448:PRO:HG2	2.23	0.44
6:U:97:GLN:HG3	6:U:103:CYS:SG	2.57	0.44
6:U:242:PHE:CE1	6:W:36:LEU:CD1	2.98	0.44
6:V:61:LEU:HG	6:V:127:LEU:HD23	1.97	0.44
6:V:216:PRO:HB3	6:V:233:HIS:CG	2.52	0.44
6:V:447:SER:HA	6:V:448:PRO:HD3	1.71	0.44
6:W:168:THR:HA	6:W:171:THR:HB	2.00	0.44
6:W:216:PRO:HB3	6:W:233:HIS:CG	2.52	0.44
6:X:601:THR:O	6:X:604:VAL:HG12	2.17	0.44
5:Y:31:GLU:HB3	5:Y:33:THR:HG23	1.99	0.44
1:A:8:GLN:HB3	1:A:321:GLU:OE2	2.18	0.44
1:A:1101:THR:HG22	1:A:1103:THR:HG23	1.98	0.44
2:B:409:MET:O	2:B:409:MET:CG	2.65	0.44
2:B:707:PHE:HA	2:B:710:ARG:HH11	1.82	0.44
4:E:1:MET:SD	4:E:293:VAL:HA	2.57	0.44
5:F:272:VAL:HG23	5:F:273:GLU:OE1	2.18	0.44
5:G:21:ARG:CZ	5:G:21:ARG:HA	2.47	0.44
5:G:31:GLU:HB3	5:G:33:THR:HG23	2.00	0.44
5:H:162:SER:CB	5:H:264:GLN:HB3	2.46	0.44
5:H:272:VAL:HG23	5:H:273:GLU:OE1	2.17	0.44
6:I:122:THR:HG23	6:J:90:ASN:CB	2.36	0.44
6:I:293:SER:HB3	6:I:463:LEU:HD21	1.99	0.44
6:I:622:GLU:CB	6:J:281:PRO:CD	2.86	0.44
6:J:474:THR:HG22	6:J:504:ASN:O	2.18	0.44
6:K:291:PRO:HA	6:K:468:PRO:HD2	2.00	0.44
6:K:564:LEU:HA	6:K:567:ARG:NH1	2.33	0.44
5:M:31:GLU:HB3	5:M:33:THR:HG23	1.99	0.44
6:O:298:PHE:HB3	6:P:418:ASN:CG	2.43	0.44
6:P:622:GLU:HG2	6:Q:279:PRO:C	2.41	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Q:216:PRO:HB3	6:Q:233:HIS:CG	2.52	0.44
6:Q:280:LEU:HG	6:Q:281:PRO:HD2	1.98	0.44
5:R:139:SER:HA	5:R:195:LEU:HD22	1.99	0.44
5:T:130:PHE:CG	6:V:446:PRO:CB	3.00	0.44
6:U:36:LEU:CD2	6:V:253:VAL:CG1	2.73	0.44
6:U:69:GLY:O	6:U:71:TYR:CD2	2.70	0.44
6:U:161:LYS:NZ	6:V:533:ASP:C	2.75	0.44
6:U:174:ILE:HD11	6:U:634:LYS:HD2	1.99	0.44
6:U:242:PHE:CD1	6:W:36:LEU:HD21	2.49	0.44
6:U:291:PRO:HA	6:U:468:PRO:HD2	2.00	0.44
6:U:541:SER:OG	6:W:169:MET:O	2.04	0.44
6:U:627:ARG:HD3	6:V:272:ASP:CG	2.43	0.44
6:U:638:PHE:HA	6:U:641:ILE:HD12	1.99	0.44
6:V:58:ILE:H	6:V:58:ILE:HG13	1.62	0.44
6:V:168:THR:HB	6:W:538:ALA:HA	2.00	0.44
6:W:245:ALA:HB1	6:W:627:ARG:HH22	1.82	0.44
6:X:84:LYS:O	6:X:87:PHE:HB2	2.18	0.44
6:X:188:ALA:HB3	6:X:647:GLY:CA	2.47	0.44
1:A:5:PHE:CE2	1:A:306:ARG:NH1	2.84	0.44
1:A:114:ASN:CG	1:A:117:VAL:HG23	2.43	0.44
1:A:358:LEU:HD21	1:A:383:PHE:CE2	2.52	0.44
1:A:932:GLN:HG2	1:A:1024:PRO:O	2.17	0.44
2:B:376:LEU:HD23	3:C:797:ALA:N	2.33	0.44
2:B:571:LEU:HD12	2:B:819:VAL:HG13	1.99	0.44
4:E:242:ASN:HB2	4:E:243:PRO:HD3	1.98	0.44
6:I:36:LEU:O	6:I:36:LEU:HG	2.17	0.44
6:I:161:LYS:NZ	6:J:533:ASP:CA	2.37	0.44
6:I:245:ALA:HB1	6:I:627:ARG:HH22	1.82	0.44
6:I:334:GLY:C	6:J:411:VAL:HG21	2.42	0.44
6:I:534:SER:HB3	6:K:165:THR:HG21	1.84	0.44
5:L:272:VAL:HG23	5:L:273:GLU:OE1	2.16	0.44
6:P:27:THR:C	6:P:28:SER:O	2.54	0.44
6:P:42:ASN:OD1	6:Q:84:LYS:HG3	2.17	0.44
6:P:494:THR:O	6:P:498:VAL:HG23	2.17	0.44
6:Q:64:VAL:HG23	6:Q:70:GLN:O	2.18	0.44
5:R:31:GLU:HB3	5:R:33:THR:HG23	2.00	0.44
5:S:130:PHE:HE1	6:U:368:THR:CG2	2.30	0.44
5:S:130:PHE:CG	6:U:446:PRO:HB2	2.52	0.44
6:V:542:ARG:HG3	6:V:546:GLN:NE2	2.33	0.44
6:W:216:PRO:HB3	6:W:233:HIS:CD2	2.52	0.44
6:X:585:GLN:O	6:X:588:ILE:HG12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:33:ARG:HB3	1:A:43:LEU:HD21	1.99	0.44
1:A:205:PHE:HB2	1:A:239:LEU:CD1	2.48	0.44
1:A:816:ASN:HD22	1:A:1000:TYR:HB2	1.82	0.44
1:A:1241:LEU:HD23	1:A:1281:ALA:HB3	1.99	0.44
2:B:452:ARG:HH21	2:B:667:ASN:C	2.25	0.44
3:C:677:TYR:CD1	3:C:681:ASN:HB3	2.53	0.44
4:D:69:ASN:OD1	4:D:145:MET:HG3	2.17	0.44
4:D:196:LEU:HA	4:D:197:PRO:HD2	1.88	0.44
4:D:235:GLU:HB2	4:D:249:LYS:HG3	2.00	0.44
5:G:34:ASN:OD1	5:G:36:ASP:HB3	2.18	0.44
6:I:28:SER:HB2	6:J:606:THR:HG21	1.90	0.44
6:I:297:ALA:O	6:J:409:ILE:CG1	2.66	0.44
6:I:555:ALA:O	6:I:557:PRO:HD3	2.18	0.44
6:I:564:LEU:HA	6:I:567:ARG:NH1	2.32	0.44
6:J:368:THR:HA	6:J:403:SER:C	2.43	0.44
5:L:34:ASN:OD1	5:L:36:ASP:HB3	2.18	0.44
5:L:130:PHE:HE1	6:Q:368:THR:HG22	1.80	0.44
6:O:168:THR:C	6:P:537:SER:C	2.85	0.44
6:O:475:THR:O	6:O:505:ASP:HA	2.18	0.44
6:P:188:ALA:HB3	6:P:647:GLY:CA	2.48	0.44
6:P:298:PHE:CE1	6:Q:416:ARG:CB	2.97	0.44
6:P:355:GLY:O	6:P:416:ARG:HA	2.17	0.44
6:P:456:ASN:HD21	6:Q:412:ARG:NE	2.16	0.44
6:P:459:LEU:CB	6:Q:412:ARG:NH1	2.54	0.44
6:P:601:THR:O	6:P:604:VAL:HG12	2.18	0.44
6:Q:189:PHE:CG	6:Q:645:TRP:HB3	2.52	0.44
6:Q:193:ILE:O	6:Q:194:LEU:C	2.51	0.44
5:R:147:HIS:HA	5:R:269:ASP:CG	2.43	0.44
6:U:281:PRO:CD	6:W:622:GLU:CB	2.87	0.44
6:U:494:THR:O	6:U:498:VAL:HG23	2.18	0.44
6:U:622:GLU:OE1	6:V:281:PRO:HG3	2.18	0.44
6:W:409:ILE:O	6:W:414:GLN:HB2	2.17	0.44
6:W:422:LEU:HD23	6:W:422:LEU:HA	1.83	0.44
1:A:834:LEU:HB2	1:A:894:THR:O	2.17	0.44
2:B:414:THR:CG2	4:D:173:ALA:HB2	2.47	0.44
3:C:83:THR:O	3:C:87:ILE:HG23	2.18	0.44
3:C:411:GLN:HB2	3:C:444:TRP:HE3	1.83	0.44
3:C:448:SER:O	3:C:452:ARG:HG3	2.18	0.44
3:C:792:GLN:NE2	4:D:346:LEU:CA	2.62	0.44
3:C:796:ALA:HB1	3:C:799:ASP:CG	2.37	0.44
3:C:885:LEU:HD21	3:C:965:GLU:HG3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:78:PRO:HB3	4:E:85:THR:O	2.18	0.44
4:E:338:HIS:O	4:E:342:ARG:HG3	2.18	0.44
6:I:174:ILE:HD11	6:I:634:LYS:HD2	2.00	0.44
6:I:216:PRO:HB3	6:I:233:HIS:CD2	2.53	0.44
6:I:317:ARG:HB3	6:I:330:GLN:OE1	2.17	0.44
6:I:440:LEU:HG	6:I:441:GLY:H	1.83	0.44
6:I:474:THR:HG22	6:I:504:ASN:O	2.17	0.44
6:I:627:ARG:HD3	6:J:272:ASP:CG	2.43	0.44
6:J:43:PRO:HA	6:K:84:LYS:NZ	2.31	0.44
6:J:47:LEU:HD13	6:J:115:THR:HG23	1.99	0.44
6:J:64:VAL:HG23	6:J:70:GLN:O	2.18	0.44
6:J:151:ALA:HA	6:K:248:GLU:OE2	2.16	0.44
6:K:89:ILE:HG21	6:K:152:ARG:HD3	1.98	0.44
6:K:368:THR:N	6:K:404:ALA:HB3	2.33	0.44
5:M:34:ASN:ND2	5:M:34:ASN:H	2.16	0.44
5:N:162:SER:CB	5:N:264:GLN:HB3	2.46	0.44
6:O:216:PRO:HB3	6:O:233:HIS:CD2	2.53	0.44
6:O:333:PRO:HB2	6:P:411:VAL:HG22	1.99	0.44
6:O:344:MET:O	6:O:345:ILE:HG13	2.18	0.44
6:O:545:VAL:HG22	6:Q:641:ILE:HG12	1.95	0.44
6:O:609:ARG:HE	6:Q:29:THR:HA	1.72	0.44
6:P:36:LEU:CD2	6:Q:242:PHE:CD1	3.01	0.44
6:P:36:LEU:O	6:P:36:LEU:HG	2.18	0.44
6:P:165:THR:O	6:Q:537:SER:OG	2.35	0.44
6:P:293:SER:HB3	6:P:463:LEU:HD21	1.99	0.44
6:Q:89:ILE:HG21	6:Q:152:ARG:HD3	2.00	0.44
6:Q:168:THR:HA	6:Q:171:THR:HB	2.00	0.44
6:Q:377:GLN:HB2	6:Q:393:ALA:HB3	1.99	0.44
6:Q:474:THR:HG22	6:Q:504:ASN:O	2.17	0.44
5:S:31:GLU:HB3	5:S:33:THR:HG23	1.99	0.44
5:S:272:VAL:HG23	5:S:273:GLU:OE1	2.18	0.44
5:T:34:ASN:H	5:T:34:ASN:ND2	2.16	0.44
6:U:64:VAL:HG23	6:U:70:GLN:O	2.18	0.44
6:U:90:ASN:CB	6:W:122:THR:HG23	2.42	0.44
6:U:242:PHE:CE1	6:W:82:PHE:CE2	2.99	0.44
6:U:333:PRO:HB2	6:V:411:VAL:HG22	1.99	0.44
6:U:412:ARG:HH12	6:W:459:LEU:HD23	1.82	0.44
6:U:475:THR:O	6:U:505:ASP:HA	2.18	0.44
6:U:534:SER:H	6:W:161:LYS:HZ3	1.55	0.44
6:V:216:PRO:HB3	6:V:233:HIS:CD2	2.53	0.44
6:W:97:GLN:HG3	6:W:103:CYS:SG	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:W:472:ARG:HH11	6:W:472:ARG:HA	1.83	0.44
6:X:18:ASN:HB3	6:X:221:GLY:CA	2.47	0.44
1:A:14:ASN:HB2	1:A:319:GLN:NE2	2.33	0.44
1:A:377:ARG:HD2	6:I:51:VAL:HG21	2.00	0.44
1:A:1252:SER:H	1:A:1257:PHE:HE1	1.60	0.44
2:B:247:THR:OG1	2:B:261:VAL:HB	2.18	0.44
2:B:299:LEU:O	2:B:302:LEU:HB3	2.18	0.44
2:B:578:ASP:HB3	2:B:581:SER:OG	2.18	0.44
2:B:814:ASP:HA	2:B:815:PRO:HD3	1.85	0.44
2:B:1086:HIS:HB2	2:B:1118:CYS:SG	2.58	0.44
5:H:203:HIS:N	5:H:250:HIS:HB3	2.33	0.44
6:J:16:ASP:H	6:J:222:ASN:HB3	1.81	0.44
6:J:456:ASN:HD21	6:K:412:ARG:NE	2.16	0.44
6:K:409:ILE:O	6:K:414:GLN:HB2	2.17	0.44
5:L:44:GLY:C	6:Q:400:ALA:HB2	2.23	0.44
5:L:84:GLU:CD	5:L:88:LYS:HZ3	2.25	0.44
5:L:275:SER:C	5:L:276:ASP:O	2.61	0.44
6:O:298:PHE:CZ	6:P:416:ARG:HA	2.52	0.44
6:O:409:ILE:O	6:O:414:GLN:HB2	2.17	0.44
6:O:564:LEU:HA	6:O:567:ARG:NH1	2.33	0.44
6:P:216:PRO:HB3	6:P:233:HIS:CD2	2.52	0.44
6:P:640:GLN:HE21	6:P:644:LEU:HD12	1.82	0.44
6:U:334:GLY:C	6:V:411:VAL:HG21	2.42	0.44
6:U:377:GLN:HB2	6:U:393:ALA:HB3	2.00	0.44
6:V:97:GLN:HG3	6:V:103:CYS:SG	2.58	0.44
6:V:474:THR:HG22	6:V:504:ASN:O	2.18	0.44
6:W:562:TYR:H	6:W:562:TYR:HD1	1.64	0.44
6:W:638:PHE:O	6:W:641:ILE:HB	2.18	0.44
1:A:815:TYR:O	1:A:819:ILE:HG13	2.18	0.43
2:B:448:SER:HA	2:B:451:LEU:HD12	2.00	0.43
2:B:452:ARG:NH2	2:B:667:ASN:C	2.76	0.43
2:B:679:TRP:CH2	2:B:697:MET:SD	3.10	0.43
3:C:370:ARG:HA	3:C:387:CYS:HA	2.00	0.43
3:C:457:MET:O	3:C:460:VAL:HB	2.18	0.43
5:G:34:ASN:ND2	5:G:34:ASN:H	2.16	0.43
5:H:31:GLU:HB3	5:H:33:THR:HG23	2.00	0.43
6:I:47:LEU:HD13	6:I:115:THR:HG23	1.99	0.43
6:I:144:ASN:HB3	6:I:147:ARG:HE	1.81	0.43
6:I:298:PHE:HB3	6:J:418:ASN:CG	2.42	0.43
6:I:377:GLN:HB2	6:I:393:ALA:HB3	2.00	0.43
6:J:171:THR:HA	6:J:172:PRO:HD2	1.74	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:346:ASP:OD2	6:J:427:GLU:HA	2.18	0.43
6:K:47:LEU:HD13	6:K:115:THR:HG23	1.99	0.43
5:M:147:HIS:HA	5:M:269:ASP:CG	2.43	0.43
5:N:203:HIS:N	5:N:250:HIS:HB3	2.33	0.43
5:N:275:SER:C	5:N:276:ASP:O	2.61	0.43
6:O:281:PRO:CG	6:Q:619:ASP:HA	2.48	0.43
6:O:622:GLU:CB	6:P:281:PRO:CD	2.88	0.43
6:P:144:ASN:HD22	6:P:147:ARG:NE	2.11	0.43
6:P:147:ARG:NH2	6:W:97:GLN:O	2.51	0.43
6:P:168:THR:HB	6:Q:538:ALA:HA	1.99	0.43
6:P:189:PHE:CG	6:P:645:TRP:HB3	2.53	0.43
6:P:299:ILE:HA	6:Q:419:MET:HE2	2.00	0.43
6:P:377:GLN:HB2	6:P:393:ALA:HB3	2.00	0.43
6:P:409:ILE:O	6:P:414:GLN:HB2	2.17	0.43
6:Q:71:TYR:HB3	6:Q:72:SER:H	1.69	0.43
6:Q:293:SER:HB3	6:Q:463:LEU:HD21	1.99	0.43
6:Q:317:ARG:HB3	6:Q:330:GLN:OE1	2.18	0.43
6:Q:346:ASP:OD2	6:Q:427:GLU:HA	2.18	0.43
5:R:4:HIS:CD2	6:V:586:VAL:HG23	2.29	0.43
5:S:203:HIS:N	5:S:250:HIS:HB3	2.33	0.43
6:U:84:LYS:HG3	6:W:42:ASN:OD1	2.16	0.43
6:U:161:LYS:CD	6:V:534:SER:H	2.30	0.43
6:U:231:GLN:NE2	6:U:231:GLN:HA	2.33	0.43
6:U:298:PHE:HB3	6:V:418:ASN:CG	2.43	0.43
6:U:317:ARG:HB3	6:U:330:GLN:OE1	2.18	0.43
6:V:42:ASN:OD1	6:W:84:LYS:HG3	2.18	0.43
6:V:346:ASP:OD2	6:V:427:GLU:HA	2.18	0.43
6:V:481:VAL:C	6:V:483:ALA:H	2.25	0.43
6:W:188:ALA:HB3	6:W:647:GLY:CA	2.47	0.43
6:W:189:PHE:CG	6:W:645:TRP:HB3	2.52	0.43
6:X:245:ALA:HB1	6:X:627:ARG:HH22	1.83	0.43
6:X:318:LYS:HD2	6:X:326:THR:CB	2.46	0.43
6:X:368:THR:N	6:X:404:ALA:HB3	2.33	0.43
6:X:474:THR:HG22	6:X:504:ASN:O	2.17	0.43
1:A:377:ARG:NH2	6:I:57:THR:HG23	2.32	0.43
1:A:1072:GLY:O	1:A:1075:PRO:HD2	2.17	0.43
2:B:567:LEU:O	2:B:571:LEU:HG	2.18	0.43
3:C:824:CYS:SG	3:C:824:CYS:O	2.76	0.43
3:C:901:ILE:O	3:C:905:VAL:HG23	2.17	0.43
4:D:57:ARG:O	4:D:59:PRO:HD3	2.18	0.43
4:D:267:ILE:HB	4:D:328:TYR:HE2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:392:ALA:N	6:P:49:ARG:CZ	2.43	0.43
4:D:400:THR:O	4:D:404:VAL:HG23	2.19	0.43
4:E:163:VAL:HG23	4:E:165:PRO:HD2	1.98	0.43
4:E:339:LEU:HB2	6:U:55:VAL:CB	2.23	0.43
5:G:275:SER:C	5:G:276:ASP:O	2.61	0.43
6:I:494:THR:O	6:I:498:VAL:HG23	2.17	0.43
6:J:154:ARG:HE	6:K:247:SER:C	2.00	0.43
6:J:216:PRO:HB3	6:J:233:HIS:CD2	2.53	0.43
6:J:299:ILE:HA	6:K:419:MET:HE2	2.00	0.43
6:J:459:LEU:CD1	6:K:414:GLN:H	2.30	0.43
6:J:638:PHE:HA	6:J:641:ILE:HD12	1.99	0.43
5:N:31:GLU:HB3	5:N:33:THR:HG23	2.00	0.43
5:N:130:PHE:HE1	6:P:368:THR:CG2	2.31	0.43
6:P:44:THR:OG1	6:Q:84:LYS:NZ	2.28	0.43
6:P:368:THR:N	6:P:404:ALA:HB3	2.33	0.43
6:P:555:ALA:O	6:P:557:PRO:HD3	2.17	0.43
6:Q:58:ILE:H	6:Q:58:ILE:HG13	1.61	0.43
6:Q:409:ILE:O	6:Q:414:GLN:HB2	2.18	0.43
6:Q:494:THR:O	6:Q:498:VAL:HG23	2.18	0.43
5:R:156:ILE:HG22	5:R:259:HIS:CD2	2.53	0.43
5:R:204:ALA:HB2	5:R:251:SER:O	2.18	0.43
6:U:84:LYS:NZ	6:W:43:PRO:HA	2.33	0.43
6:V:36:LEU:CD2	6:W:242:PHE:CD1	3.01	0.43
6:V:64:VAL:HG23	6:V:70:GLN:O	2.18	0.43
6:V:188:ALA:HB3	6:V:647:GLY:CA	2.48	0.43
6:V:377:GLN:HB2	6:V:393:ALA:HB3	2.00	0.43
5:Y:34:ASN:OD1	5:Y:36:ASP:HB3	2.18	0.43
1:A:63:PRO:HA	1:A:64:PRO:HA	1.75	0.43
1:A:467:ARG:H	1:A:467:ARG:NE	2.16	0.43
1:A:1108:PHE:O	1:A:1124:SER:HA	2.17	0.43
2:B:376:LEU:HD23	3:C:795:ASP:C	2.38	0.43
2:B:586:PHE:HA	2:B:642:PHE:CE2	2.53	0.43
2:B:621:TRP:HA	2:B:622:PRO:HD3	1.69	0.43
3:C:501:SER:HB2	3:C:511:ILE:HG13	2.00	0.43
3:C:709:ILE:HG12	3:C:733:MET:HE3	2.00	0.43
3:C:732:VAL:O	3:C:735:ALA:HB3	2.18	0.43
3:C:788:VAL:HG12	3:C:789:ASP:N	2.34	0.43
4:E:44:LEU:O	4:E:47:SER:HB2	2.17	0.43
4:E:354:GLN:OE1	4:E:355:LEU:HG	2.18	0.43
5:F:153:ASP:HB3	5:F:158:LEU:HB3	1.99	0.43
5:H:147:HIS:HA	5:H:269:ASP:CG	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:90:ASN:HB2	6:K:122:THR:CG2	2.42	0.43
6:I:333:PRO:CB	6:J:411:VAL:HG22	2.47	0.43
6:I:537:SER:OG	6:K:165:THR:C	2.61	0.43
6:J:71:TYR:HB3	6:J:72:SER:H	1.68	0.43
6:J:97:GLN:HG3	6:J:103:CYS:SG	2.58	0.43
6:K:64:VAL:HG23	6:K:70:GLN:O	2.18	0.43
6:K:245:ALA:HB1	6:K:627:ARG:HH22	1.83	0.43
6:K:472:ARG:HA	6:K:472:ARG:HH11	1.83	0.43
5:L:31:GLU:HB3	5:L:33:THR:HG23	2.00	0.43
5:L:258:ALA:O	5:L:262:CYS:HB2	2.18	0.43
5:M:130:PHE:HE1	6:O:368:THR:CG2	2.31	0.43
6:O:64:VAL:HG23	6:O:70:GLN:O	2.18	0.43
6:O:278:THR:H	6:Q:625:ARG:CZ	2.31	0.43
6:O:298:PHE:CB	6:P:419:MET:H	2.29	0.43
6:O:548:LYS:CE	6:Q:644:LEU:CA	2.74	0.43
6:O:555:ALA:O	6:O:557:PRO:HD3	2.18	0.43
6:O:622:GLU:OE1	6:P:281:PRO:HG3	2.19	0.43
6:O:622:GLU:CA	6:P:280:LEU:HD12	2.38	0.43
6:P:66:ASP:OD1	6:Q:232:ALA:HB1	2.00	0.43
5:T:132:THR:HB	5:T:138:SER:HB2	2.00	0.43
5:T:203:HIS:N	5:T:250:HIS:HB3	2.34	0.43
6:U:89:ILE:HG21	6:U:152:ARG:HD3	2.00	0.43
6:U:168:THR:C	6:V:537:SER:C	2.87	0.43
6:U:242:PHE:CA	6:W:36:LEU:HD21	2.32	0.43
6:U:473:GLU:HA	6:W:529:SER:CB	2.47	0.43
6:U:474:THR:HG22	6:U:504:ASN:O	2.18	0.43
6:U:537:SER:OG	6:W:165:THR:C	2.60	0.43
6:V:18:ASN:HB3	6:V:221:GLY:HA2	2.00	0.43
6:V:27:THR:C	6:V:28:SER:O	2.53	0.43
6:V:189:PHE:CG	6:V:645:TRP:HB3	2.53	0.43
6:V:298:PHE:HZ	6:W:416:ARG:CA	2.08	0.43
6:V:494:THR:O	6:V:498:VAL:HG23	2.18	0.43
6:W:84:LYS:O	6:W:87:PHE:HB2	2.19	0.43
6:W:494:THR:O	6:W:498:VAL:HG23	2.18	0.43
6:X:18:ASN:HB3	6:X:221:GLY:HA2	2.01	0.43
6:X:497:GLU:HB2	5:Y:5:MET:HE2	2.00	0.43
5:Y:203:HIS:N	5:Y:250:HIS:HB3	2.34	0.43
1:A:642:LEU:HD23	1:A:668:LEU:HD13	2.01	0.43
2:B:452:ARG:NE	2:B:667:ASN:C	2.76	0.43
4:E:9:LEU:HD11	4:E:117:ASN:HD21	1.81	0.43
4:E:333:MET:HG2	4:E:337:ARG:CZ	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:186:LEU:HB2	5:F:198:HIS:O	2.17	0.43
5:H:34:ASN:ND2	5:H:34:ASN:H	2.16	0.43
5:H:154:GLY:H	5:H:157:HIS:HB2	1.83	0.43
6:I:457:PRO:O	6:I:458:THR:HB	2.18	0.43
6:I:622:GLU:OE1	6:J:281:PRO:HG3	2.18	0.43
6:J:165:THR:O	6:K:537:SER:OG	2.35	0.43
6:J:291:PRO:HA	6:J:468:PRO:HD2	2.00	0.43
6:J:475:THR:O	6:J:505:ASP:HA	2.18	0.43
6:K:168:THR:HA	6:K:171:THR:HB	1.99	0.43
6:K:189:PHE:CG	6:K:645:TRP:HB3	2.54	0.43
6:K:525:ILE:HG22	6:K:527:VAL:HG13	2.01	0.43
5:M:162:SER:CB	5:M:264:GLN:HB3	2.46	0.43
5:M:186:LEU:HB2	5:M:198:HIS:O	2.18	0.43
6:O:494:THR:O	6:O:498:VAL:HG23	2.18	0.43
6:P:147:ARG:CB	6:W:100:LYS:CE	2.82	0.43
6:P:481:VAL:C	6:P:483:ALA:H	2.26	0.43
6:Q:174:ILE:HD11	6:Q:634:LYS:HD2	2.01	0.43
6:Q:481:VAL:C	6:Q:483:ALA:H	2.26	0.43
5:R:34:ASN:OD1	5:R:36:ASP:HB3	2.18	0.43
6:U:235:LEU:HD12	6:W:72:SER:OG	2.19	0.43
6:U:245:ALA:HB1	6:U:627:ARG:HH22	1.82	0.43
6:U:280:LEU:HD12	6:W:622:GLU:C	2.44	0.43
6:U:459:LEU:CA	6:V:412:ARG:HE	2.21	0.43
6:U:555:ALA:O	6:U:557:PRO:HD3	2.18	0.43
6:V:36:LEU:O	6:V:36:LEU:HG	2.19	0.43
6:V:245:ALA:HB1	6:V:627:ARG:HH22	1.82	0.43
6:V:357:ILE:HG22	6:V:417:PHE:H	1.82	0.43
6:X:216:PRO:HB3	6:X:233:HIS:CD2	2.53	0.43
6:X:334:GLY:N	6:X:335:PRO:HD3	2.34	0.43
6:X:564:LEU:HA	6:X:567:ARG:NH1	2.33	0.43
1:A:57:THR:HG21	1:A:191:PRO:HD2	2.01	0.43
2:B:364:ILE:HG21	2:B:1175:PRO:HA	2.00	0.43
2:B:375:ASN:ND2	3:C:798:VAL:HG21	2.30	0.43
2:B:1168:ARG:HB3	2:B:1190:LEU:HD12	2.00	0.43
3:C:528:PHE:HB3	3:C:821:ALA:HB2	2.00	0.43
3:C:1178:ARG:H	3:C:1178:ARG:NE	2.16	0.43
4:D:107:GLN:N	4:D:108:PRO:HD3	2.33	0.43
4:D:269:CYS:SG	4:D:330:PRO:HD3	2.58	0.43
4:D:363:ALA:HA	4:D:366:ILE:CG1	2.49	0.43
4:E:227:ARG:CZ	4:E:340:GLN:HE22	2.32	0.43
5:G:162:SER:HB3	5:G:261:ASP:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:267:ALA:HB1	6:K:254:GLY:CA	2.40	0.43
6:I:281:PRO:CG	6:K:619:ASP:HA	2.48	0.43
6:I:459:LEU:HD13	6:J:412:ARG:O	2.12	0.43
6:J:36:LEU:CD2	6:K:242:PHE:CD1	3.01	0.43
6:J:75:ASN:HB3	6:J:78:MET:CB	2.43	0.43
6:J:555:ALA:O	6:J:557:PRO:HD3	2.18	0.43
6:O:242:PHE:CD1	6:Q:36:LEU:HD21	2.48	0.43
6:O:368:THR:N	6:O:404:ALA:HB3	2.33	0.43
6:P:459:LEU:CD1	6:Q:414:GLN:H	2.31	0.43
6:Q:564:LEU:HA	6:Q:567:ARG:NH1	2.33	0.43
6:Q:638:PHE:O	6:Q:641:ILE:HB	2.18	0.43
5:S:154:GLY:H	5:S:157:HIS:HB2	1.82	0.43
5:T:162:SER:HB3	5:T:261:ASP:HA	2.00	0.43
6:U:36:LEU:O	6:U:36:LEU:HG	2.17	0.43
6:U:161:LYS:C	6:V:534:SER:HG	2.11	0.43
6:U:216:PRO:HB3	6:U:233:HIS:CD2	2.54	0.43
6:U:232:ALA:HB1	6:W:66:ASP:OD1	1.92	0.43
6:U:346:ASP:OD2	6:U:427:GLU:HA	2.18	0.43
6:U:412:ARG:HE	6:W:459:LEU:CA	2.22	0.43
6:U:414:GLN:HG3	6:W:459:LEU:HD13	1.96	0.43
6:V:374:VAL:HG22	6:V:396:VAL:HA	2.00	0.43
6:V:422:LEU:HD23	6:V:422:LEU:HA	1.84	0.43
6:V:641:ILE:HG12	6:W:545:VAL:HG22	1.99	0.43
6:W:377:GLN:HB2	6:W:393:ALA:HB3	2.00	0.43
6:W:555:ALA:O	6:W:557:PRO:HD3	2.18	0.43
6:X:555:ALA:O	6:X:557:PRO:HD3	2.18	0.43
5:Y:132:THR:HB	5:Y:138:SER:HB2	2.00	0.43
1:A:15:THR:HG21	1:A:363:SER:HA	2.00	0.43
2:B:297:VAL:O	2:B:301:LEU:HG	2.19	0.43
3:C:285:ASN:ND2	3:C:285:ASN:H	2.17	0.43
3:C:428:LEU:HG	3:C:429:ASN:N	2.34	0.43
3:C:489:ASP:O	3:C:824:CYS:HB2	2.19	0.43
3:C:973:ASN:HB2	3:C:1144:ASP:OD1	2.18	0.43
3:C:1012:ARG:HB2	3:C:1012:ARG:CZ	2.49	0.43
4:E:146:THR:HG22	4:E:150:LEU:HD11	2.00	0.43
4:E:230:ASN:HA	4:E:255:ARG:CD	2.49	0.43
5:G:13:MET:SD	5:G:48:ILE:HG21	2.59	0.43
6:I:330:GLN:O	6:I:457:PRO:HB3	2.19	0.43
6:I:422:LEU:HD23	6:I:422:LEU:HA	1.83	0.43
6:I:525:ILE:HG22	6:I:527:VAL:HG13	2.01	0.43
6:J:36:LEU:O	6:J:36:LEU:HG	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:69:GLY:O	6:J:71:TYR:CD2	2.71	0.43
6:J:89:ILE:HG21	6:J:152:ARG:HD3	2.00	0.43
6:O:97:GLN:HG3	6:O:103:CYS:SG	2.58	0.43
6:O:146:GLN:NE2	6:P:241:ALA:HB1	2.33	0.43
6:O:412:ARG:HA	6:Q:456:ASN:OD1	1.91	0.43
6:O:412:ARG:NE	6:Q:456:ASN:HD21	2.17	0.43
6:O:622:GLU:OE1	6:P:281:PRO:CG	2.66	0.43
6:O:630:LEU:CG	6:P:275:GLU:HG2	2.41	0.43
6:Q:36:LEU:O	6:Q:36:LEU:HG	2.19	0.43
5:R:11:HIS:HE1	5:R:234:ARG:HD3	1.84	0.43
5:T:31:GLU:HB3	5:T:33:THR:HG23	2.00	0.43
5:T:34:ASN:OD1	5:T:36:ASP:HB3	2.18	0.43
6:U:297:ALA:O	6:V:409:ILE:CG1	2.66	0.43
6:U:545:VAL:HG22	6:W:641:ILE:HG12	1.97	0.43
6:U:622:GLU:CB	6:V:281:PRO:CD	2.87	0.43
6:V:44:THR:HG21	6:W:84:LYS:NZ	1.98	0.43
6:V:298:PHE:HZ	6:W:416:ARG:HA	1.79	0.43
6:V:619:ASP:N	6:W:284:VAL:HG21	2.33	0.43
6:W:64:VAL:HG23	6:W:70:GLN:O	2.18	0.43
6:W:344:MET:O	6:W:345:ILE:HG13	2.18	0.43
1:A:624:THR:O	1:A:627:PHE:HB3	2.18	0.43
1:A:1129:PRO:HA	1:A:1130:PRO:HD3	1.88	0.43
2:B:376:LEU:HD21	3:C:795:ASP:HB3	1.94	0.43
2:B:548:ASP:C	2:B:550:PHE:H	2.26	0.43
2:B:1184:LEU:CD1	4:D:51:LEU:HD11	2.47	0.43
3:C:618:PRO:HA	3:C:621:TRP:CD1	2.53	0.43
4:E:150:LEU:O	4:E:305:LEU:HD22	2.18	0.43
4:E:183:ALA:HB2	4:E:245:GLN:NE2	2.34	0.43
5:F:258:ALA:O	5:F:262:CYS:HB2	2.19	0.43
5:H:34:ASN:OD1	5:H:36:ASP:HB3	2.19	0.43
6:I:346:ASP:OD2	6:I:427:GLU:HA	2.18	0.43
6:J:174:ILE:HD11	6:J:634:LYS:HD2	2.01	0.43
6:J:193:ILE:O	6:J:194:LEU:C	2.54	0.43
6:J:344:MET:O	6:J:345:ILE:HG13	2.18	0.43
6:J:481:VAL:C	6:J:483:ALA:H	2.26	0.43
6:K:84:LYS:O	6:K:87:PHE:HB2	2.19	0.43
6:K:97:GLN:HG3	6:K:103:CYS:SG	2.58	0.43
5:L:203:HIS:N	5:L:250:HIS:HB3	2.34	0.43
5:M:275:SER:C	5:M:276:ASP:O	2.61	0.43
6:O:165:THR:HA	6:P:537:SER:HG	1.72	0.43
6:O:170:LEU:N	6:P:541:SER:OG	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:280:LEU:HD12	6:Q:622:GLU:C	2.43	0.43
6:O:334:GLY:C	6:P:411:VAL:HG21	2.43	0.43
6:O:456:ASN:HD21	6:P:412:ARG:CG	2.09	0.43
6:O:459:LEU:HD23	6:P:409:ILE:CG2	2.43	0.43
6:O:541:SER:HG	6:Q:169:MET:HA	1.67	0.43
6:Q:291:PRO:HA	6:Q:468:PRO:HD2	2.01	0.43
5:S:13:MET:SD	5:S:48:ILE:HG21	2.59	0.43
5:S:41:VAL:HB	5:S:48:ILE:HB	2.01	0.43
5:S:258:ALA:O	5:S:262:CYS:HB2	2.19	0.43
6:U:30:ALA:CB	6:V:610:THR:HA	2.23	0.43
6:U:281:PRO:CG	6:W:619:ASP:HA	2.48	0.43
6:U:293:SER:HB3	6:U:463:LEU:HD21	1.99	0.43
6:U:419:MET:HE1	6:W:299:ILE:HD13	1.88	0.43
6:X:280:LEU:HG	6:X:281:PRO:HD2	2.00	0.43
1:A:230:PHE:CE2	1:A:369:ILE:HB	2.54	0.43
2:B:722:ASN:O	2:B:725:THR:HB	2.18	0.43
2:B:993:TRP:CZ2	2:B:1134:HIS:HB2	2.54	0.43
3:C:792:GLN:CD	4:D:346:LEU:O	2.61	0.43
3:C:1095:ASP:HA	3:C:1133:VAL:HB	2.00	0.43
4:D:329:ASN:OD1	4:D:332:PRO:HD2	2.19	0.43
5:H:130:PHE:HE1	6:J:368:THR:HG22	1.84	0.43
5:H:162:SER:HB3	5:H:261:ASP:HA	2.01	0.43
5:H:258:ALA:O	5:H:262:CYS:HB2	2.19	0.43
6:I:64:VAL:HG23	6:I:70:GLN:O	2.18	0.43
6:I:168:THR:C	6:J:537:SER:C	2.86	0.43
6:J:27:THR:C	6:J:28:SER:O	2.55	0.43
6:J:542:ARG:HG3	6:J:546:GLN:NE2	2.34	0.43
6:J:622:GLU:HB2	6:K:281:PRO:CD	2.47	0.43
6:K:36:LEU:O	6:K:36:LEU:HG	2.17	0.43
5:L:132:THR:HB	5:L:138:SER:HB2	2.01	0.43
5:N:114:THR:HB	5:N:269:ASP:HB3	2.01	0.43
6:O:89:ILE:HG21	6:O:152:ARG:HD3	2.01	0.43
6:P:47:LEU:HD13	6:P:115:THR:HG23	1.99	0.43
6:P:64:VAL:HG23	6:P:70:GLN:O	2.19	0.43
6:Q:188:ALA:HB3	6:Q:647:GLY:CA	2.47	0.43
5:R:5:MET:HG3	6:V:494:THR:HG21	2.00	0.43
6:U:91:MET:HB2	6:U:214:ARG:HH11	1.84	0.43
6:U:278:THR:H	6:W:625:ARG:CZ	2.31	0.43
6:U:280:LEU:HG	6:U:281:PRO:HD2	2.00	0.43
6:U:318:LYS:HD2	6:U:326:THR:CB	2.46	0.43
6:U:564:LEU:HA	6:U:567:ARG:NH1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:20:PHE:HB3	6:V:181:CYS:O	2.19	0.43
6:V:459:LEU:CD1	6:W:414:GLN:H	2.32	0.43
6:X:64:VAL:HG23	6:X:70:GLN:O	2.18	0.43
6:X:157:ALA:HA	6:X:160:GLN:OE1	2.18	0.43
6:X:475:THR:O	6:X:505:ASP:HA	2.19	0.43
5:Y:147:HIS:HA	5:Y:269:ASP:CG	2.43	0.43
1:A:446:SER:C	1:A:448:ASP:H	2.26	0.43
3:C:164:TRP:HH2	3:C:1209:TYR:HA	1.84	0.43
3:C:452:ARG:O	3:C:456:VAL:HG23	2.19	0.43
3:C:535:TRP:HH2	3:C:677:TYR:CD2	2.36	0.43
3:C:654:SER:O	3:C:676:VAL:HG13	2.19	0.43
4:D:140:GLN:O	4:D:144:ILE:HG13	2.19	0.43
4:D:206:SER:HA	4:D:209:ARG:HE	1.83	0.43
4:E:174:LEU:HA	4:E:177:TYR:CE1	2.54	0.43
4:E:400:THR:HB	6:U:53:THR:CG2	2.47	0.43
4:E:401:ALA:HA	6:U:52:GLY:CA	2.15	0.43
5:F:31:GLU:HB3	5:F:33:THR:HG23	2.01	0.43
5:G:258:ALA:O	5:G:262:CYS:HB2	2.19	0.43
6:I:58:ILE:H	6:I:58:ILE:HG13	1.62	0.43
6:I:189:PHE:CG	6:I:645:TRP:HB3	2.53	0.43
6:I:475:THR:O	6:I:505:ASP:HA	2.19	0.43
6:J:377:GLN:HB2	6:J:393:ALA:HB3	2.01	0.43
5:L:52:CYS:C	5:L:54:THR:N	2.77	0.43
5:N:34:ASN:OD1	5:N:36:ASP:HB3	2.19	0.43
5:N:130:PHE:CG	6:P:446:PRO:CB	3.01	0.43
6:O:638:PHE:HA	6:O:641:ILE:HD12	2.00	0.43
6:P:346:ASP:OD2	6:P:427:GLU:HA	2.18	0.43
6:Q:368:THR:N	6:Q:404:ALA:HB3	2.34	0.43
5:R:203:HIS:N	5:R:250:HIS:HB3	2.34	0.43
6:U:334:GLY:N	6:U:335:PRO:HD3	2.33	0.43
6:U:459:LEU:CD1	6:V:412:ARG:H	2.19	0.43
6:U:610:THR:CA	6:W:30:ALA:CB	2.90	0.43
6:V:298:PHE:CE1	6:W:416:ARG:CB	2.95	0.43
6:V:299:ILE:HA	6:W:419:MET:HE2	2.00	0.43
6:V:356:THR:HG21	6:V:461:ASP:H	1.84	0.43
6:V:368:THR:HA	6:V:403:SER:C	2.43	0.43
6:W:280:LEU:HG	6:W:281:PRO:HD2	2.00	0.43
6:W:318:LYS:CD	6:W:326:THR:HB	2.45	0.43
6:W:475:THR:O	6:W:505:ASP:HA	2.18	0.43
6:W:481:VAL:C	6:W:483:ALA:H	2.25	0.43
5:Y:156:ILE:HG22	5:Y:259:HIS:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:211:PRO:O	1:A:215:ARG:HG3	2.19	0.43
2:B:640:ARG:O	2:B:644:GLU:HG2	2.18	0.43
2:B:1021:VAL:HB	2:B:1030:GLN:O	2.19	0.43
3:C:53:ILE:HB	3:C:54:VAL:H	1.60	0.43
3:C:73:ASN:HB3	3:C:79:ILE:HD11	2.01	0.43
3:C:242:ARG:HD2	3:C:266:PRO:HG2	2.01	0.43
3:C:1179:VAL:HB	3:C:1193:SER:HB3	2.00	0.43
4:D:14:TYR:CD2	4:D:388:PRO:HB2	2.49	0.43
5:G:194:LEU:HD13	6:I:447:SER:HG	1.78	0.43
6:I:416:ARG:O	6:K:298:PHE:CE1	2.59	0.43
6:J:295:ARG:HD2	6:J:297:ALA:HB3	2.01	0.43
6:J:357:ILE:HG22	6:J:417:PHE:H	1.84	0.43
6:J:645:TRP:HA	6:J:646:PRO:HD2	1.89	0.43
5:M:34:ASN:OD1	5:M:36:ASP:HB3	2.19	0.43
5:N:258:ALA:O	5:N:262:CYS:HB2	2.19	0.43
6:O:43:PRO:HA	6:P:84:LYS:NZ	2.34	0.43
6:O:412:ARG:HD3	6:Q:458:THR:H	1.72	0.43
6:P:18:ASN:HB3	6:P:221:GLY:HA2	2.00	0.43
6:P:171:THR:HA	6:P:172:PRO:HD2	1.75	0.43
6:P:357:ILE:HG22	6:P:417:PHE:H	1.84	0.43
6:P:641:ILE:HG12	6:Q:545:VAL:HG22	1.99	0.43
6:U:481:VAL:C	6:U:483:ALA:H	2.26	0.43
6:U:630:LEU:HD13	6:V:275:GLU:HB3	1.92	0.43
6:V:317:ARG:HB3	6:V:330:GLN:OE1	2.19	0.43
6:V:330:GLN:O	6:V:457:PRO:HB3	2.19	0.43
6:W:564:LEU:HA	6:W:567:ARG:NH1	2.33	0.43
6:X:481:VAL:C	6:X:483:ALA:H	2.27	0.43
5:Y:34:ASN:H	5:Y:34:ASN:ND2	2.17	0.43
1:A:91:ARG:HA	1:A:91:ARG:HH11	1.84	0.42
2:B:282:TYR:CD2	2:B:1110:ALA:HB1	2.54	0.42
2:B:429:ASN:ND2	3:C:611:PRO:CD	2.78	0.42
3:C:601:ILE:HG23	3:C:606:MET:O	2.19	0.42
4:D:85:THR:HA	4:D:110:PRO:HB2	2.00	0.42
4:D:175:MET:SD	4:D:250:TRP:CE3	3.12	0.42
4:D:363:ALA:O	4:D:367:GLU:HG3	2.19	0.42
4:E:100:LEU:H	4:E:100:LEU:HG	1.77	0.42
5:H:66:GLN:HA	5:H:69:HIS:HD2	1.84	0.42
5:H:132:THR:HB	5:H:138:SER:HB2	1.99	0.42
6:I:146:GLN:NE2	6:J:241:ALA:HB1	2.33	0.42
6:I:356:THR:HG21	6:I:461:ASP:H	1.83	0.42
6:I:368:THR:N	6:I:404:ALA:HB3	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:447:SER:HA	6:I:448:PRO:HD3	1.71	0.42
6:I:482:ASP:OD1	6:K:530:ARG:NH2	2.51	0.42
6:I:638:PHE:HA	6:I:641:ILE:HD12	1.99	0.42
6:J:66:ASP:OD1	6:K:232:ALA:HB1	1.99	0.42
6:J:181:CYS:HB3	6:J:186:LEU:HD11	2.01	0.42
6:J:189:PHE:CG	6:J:645:TRP:HB3	2.54	0.42
6:K:346:ASP:OD2	6:K:427:GLU:HA	2.19	0.42
6:K:494:THR:O	6:K:498:VAL:HG23	2.18	0.42
5:L:41:VAL:HB	5:L:48:ILE:HB	2.00	0.42
5:M:132:THR:HB	5:M:138:SER:HB2	2.01	0.42
5:N:13:MET:SD	5:N:48:ILE:HG21	2.59	0.42
6:O:58:ILE:H	6:O:58:ILE:HG13	1.61	0.42
6:O:545:VAL:CG1	6:Q:640:GLN:CD	2.58	0.42
6:P:74:VAL:HG23	6:P:135:VAL:O	2.19	0.42
6:P:638:PHE:O	6:P:641:ILE:HB	2.19	0.42
6:Q:216:PRO:HB3	6:Q:233:HIS:CD2	2.54	0.42
6:U:43:PRO:HA	6:V:84:LYS:NZ	2.34	0.42
6:U:412:ARG:NE	6:W:456:ASN:HD21	2.17	0.42
6:V:368:THR:N	6:V:404:ALA:HB3	2.34	0.42
6:V:475:THR:O	6:V:505:ASP:HA	2.19	0.42
6:W:167:MET:O	6:W:172:PRO:HD2	2.19	0.42
2:B:581:SER:O	2:B:585:VAL:HG23	2.20	0.42
2:B:881:VAL:HA	4:D:32:CYS:HA	2.02	0.42
3:C:81:ARG:NH1	3:C:86:SER:HA	2.34	0.42
3:C:309:LEU:C	3:C:310:LYS:HD2	2.44	0.42
3:C:513:GLU:OE1	3:C:560:LEU:HG	2.19	0.42
3:C:882:PRO:O	3:C:884:PRO:HD3	2.19	0.42
3:C:1064:TRP:O	3:C:1068:LYS:HG2	2.19	0.42
4:D:69:ASN:O	4:D:72:LEU:HB2	2.19	0.42
4:E:235:GLU:C	4:E:237:ALA:H	2.27	0.42
5:F:44:GLY:CA	6:K:400:ALA:O	2.35	0.42
5:G:105:ASP:HB2	5:G:111:VAL:O	2.19	0.42
6:J:564:LEU:HA	6:J:567:ARG:NH1	2.34	0.42
6:K:167:MET:O	6:K:172:PRO:HD2	2.19	0.42
6:K:181:CYS:HB3	6:K:186:LEU:HD11	2.01	0.42
5:L:154:GLY:HA3	5:L:177:ASP:OD1	2.19	0.42
5:M:66:GLN:HA	5:M:69:HIS:HD2	1.83	0.42
6:O:297:ALA:O	6:P:409:ILE:CG1	2.66	0.42
6:O:299:ILE:HD13	6:P:419:MET:HE2	1.73	0.42
6:O:346:ASP:OD2	6:O:427:GLU:HA	2.19	0.42
6:O:472:ARG:HD2	6:Q:530:ARG:H	1.70	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:44:THR:HG21	6:Q:84:LYS:NZ	1.98	0.42
6:P:167:MET:O	6:P:172:PRO:HD2	2.20	0.42
6:P:317:ARG:HB3	6:P:330:GLN:OE1	2.18	0.42
6:P:368:THR:HA	6:P:403:SER:C	2.44	0.42
6:Q:100:LYS:HD2	6:Q:100:LYS:N	2.34	0.42
5:S:4:HIS:CE1	6:W:587:GLY:HA2	2.44	0.42
5:S:26:THR:CB	5:S:38:ALA:HA	2.49	0.42
6:U:189:PHE:CG	6:U:645:TRP:HB3	2.53	0.42
6:U:344:MET:O	6:U:345:ILE:HG13	2.19	0.42
6:U:368:THR:N	6:U:404:ALA:HB3	2.34	0.42
6:U:440:LEU:HG	6:U:441:GLY:H	1.84	0.42
6:V:11:TYR:OH	6:V:209:ASN:HA	2.19	0.42
6:W:640:GLN:HE21	6:W:644:LEU:HD12	1.84	0.42
5:Y:66:GLN:HA	5:Y:69:HIS:HD2	1.84	0.42
1:A:1162:GLN:OE1	1:A:1162:GLN:HA	2.19	0.42
3:C:1156:THR:HB	3:C:1157:ALA:H	1.64	0.42
4:D:83:GLN:N	6:I:54:SER:HB3	2.30	0.42
5:F:194:LEU:CD1	6:K:448:PRO:HD2	2.50	0.42
6:I:20:PHE:HB3	6:I:181:CYS:O	2.19	0.42
6:I:459:LEU:CA	6:J:412:ARG:HH11	1.91	0.42
6:I:481:VAL:C	6:I:483:ALA:H	2.26	0.42
6:J:355:GLY:O	6:J:416:ARG:HA	2.18	0.42
6:J:619:ASP:N	6:K:284:VAL:HG21	2.32	0.42
5:L:191:LYS:O	6:Q:364:PRO:CB	2.48	0.42
5:M:156:ILE:HG22	5:M:259:HIS:CD2	2.54	0.42
5:M:203:HIS:N	5:M:250:HIS:HB3	2.34	0.42
5:M:258:ALA:O	5:M:262:CYS:HB2	2.19	0.42
5:N:34:ASN:H	5:N:34:ASN:ND2	2.17	0.42
5:N:266:VAL:C	5:N:268:LEU:H	2.28	0.42
6:O:287:PRO:HB2	6:O:288:SER:H	1.66	0.42
6:O:317:ARG:HB3	6:O:330:GLN:OE1	2.19	0.42
6:P:298:PHE:HZ	6:Q:416:ARG:CA	2.08	0.42
5:R:124:ASP:OD1	5:R:133:CYS:HB2	2.19	0.42
5:S:162:SER:HB3	5:S:261:ASP:HA	2.02	0.42
6:U:267:ALA:HB1	6:W:254:GLY:CA	2.40	0.42
6:U:277:ASP:N	6:W:625:ARG:HH12	2.15	0.42
6:U:619:ASP:OD2	6:V:284:VAL:CG1	2.27	0.42
6:V:151:ALA:HA	6:W:248:GLU:OE2	2.19	0.42
6:W:89:ILE:HG21	6:W:152:ARG:HD3	2.00	0.42
6:X:36:LEU:HG	6:X:36:LEU:O	2.18	0.42
1:A:26:ARG:CZ	1:A:27:PHE:H	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:40:HIS:HA	1:A:44:TYR:CE1	2.52	0.42
1:A:230:PHE:HE2	1:A:369:ILE:HB	1.85	0.42
1:A:951:LEU:HB2	1:A:952:ARG:NH2	2.34	0.42
1:A:1052:ILE:O	1:A:1095:GLU:HA	2.20	0.42
2:B:409:MET:CG	2:B:445:PHE:H	2.33	0.42
2:B:532:ILE:HA	2:B:535:TRP:CZ3	2.55	0.42
3:C:655:GLU:HB2	3:C:674:ARG:HD2	2.01	0.42
3:C:781:THR:HG21	3:C:941:TYR:HB2	2.01	0.42
3:C:1064:TRP:CH2	3:C:1100:LEU:HD12	2.55	0.42
4:D:284:ALA:O	4:D:288:GLN:HG2	2.19	0.42
4:D:336:ALA:O	4:D:339:LEU:HB3	2.19	0.42
4:D:377:ASN:HB2	4:D:378:PRO:HD3	2.01	0.42
4:E:364:LEU:O	4:E:368:ARG:HB2	2.19	0.42
5:F:41:VAL:HB	5:F:48:ILE:HB	2.02	0.42
5:F:66:GLN:HA	5:F:69:HIS:HD2	1.84	0.42
5:F:156:ILE:HG22	5:F:259:HIS:CD2	2.54	0.42
5:F:162:SER:HB3	5:F:261:ASP:HA	2.01	0.42
5:F:182:HIS:HA	5:F:184:LYS:HZ2	1.85	0.42
5:F:203:HIS:N	5:F:250:HIS:HB3	2.35	0.42
5:H:11:HIS:HE1	5:H:234:ARG:HD3	1.85	0.42
6:I:45:GLY:HA3	6:I:119:VAL:HG12	2.01	0.42
6:I:298:PHE:HE2	6:J:416:ARG:C	1.91	0.42
6:I:622:GLU:CD	6:J:279:PRO:O	2.61	0.42
6:J:119:VAL:HB	6:J:129:ASN:ND2	2.35	0.42
6:K:48:TRP:HB2	6:K:118:TYR:HB2	2.02	0.42
6:K:377:GLN:HB2	6:K:393:ALA:HB3	2.00	0.42
6:P:174:ILE:HD11	6:P:634:LYS:HD2	2.00	0.42
6:P:456:ASN:HD21	6:Q:412:ARG:CA	1.92	0.42
6:Q:238:VAL:HG13	6:Q:239:ALA:H	1.84	0.42
6:Q:349:LEU:HB2	6:Q:424:ALA:HB3	2.01	0.42
6:Q:525:ILE:HG22	6:Q:527:VAL:HG13	2.00	0.42
5:R:34:ASN:ND2	5:R:34:ASN:H	2.17	0.42
5:R:182:HIS:HA	5:R:184:LYS:HZ2	1.85	0.42
5:R:258:ALA:O	5:R:262:CYS:HB2	2.19	0.42
5:S:34:ASN:ND2	5:S:34:ASN:H	2.17	0.42
6:U:84:LYS:O	6:U:87:PHE:HB2	2.19	0.42
6:U:333:PRO:CB	6:V:411:VAL:HG22	2.48	0.42
6:U:561:ASP:HB2	6:W:193:ILE:CG2	2.49	0.42
6:U:625:ARG:NH2	6:V:278:THR:C	2.67	0.42
6:V:459:LEU:CB	6:W:412:ARG:NH1	2.54	0.42
6:V:564:LEU:HA	6:V:567:ARG:NH1	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:W:20:PHE:HB3	6:W:181:CYS:O	2.20	0.42
6:W:346:ASP:OD2	6:W:427:GLU:HA	2.19	0.42
6:X:494:THR:CG2	5:Y:5:MET:N	2.81	0.42
1:A:580:ALA:HB3	1:A:618:LEU:HD13	2.01	0.42
2:B:602:GLY:HA3	2:B:606:MET:SD	2.59	0.42
2:B:1050:ASP:O	2:B:1054:VAL:HG22	2.19	0.42
5:F:266:VAL:C	5:F:268:LEU:H	2.28	0.42
5:G:41:VAL:HB	5:G:48:ILE:HB	2.01	0.42
5:G:182:HIS:HA	5:G:184:LYS:HZ2	1.85	0.42
6:I:71:TYR:HB3	6:I:72:SER:H	1.69	0.42
6:I:412:ARG:NE	6:K:456:ASN:HD21	2.16	0.42
6:K:20:PHE:HB3	6:K:181:CYS:O	2.20	0.42
6:K:216:PRO:HB3	6:K:233:HIS:CD2	2.54	0.42
6:K:638:PHE:O	6:K:641:ILE:HB	2.19	0.42
5:L:4:HIS:CG	6:P:586:VAL:CB	2.93	0.42
5:L:13:MET:SD	5:L:48:ILE:HG21	2.59	0.42
5:L:266:VAL:C	5:L:268:LEU:H	2.28	0.42
6:O:529:SER:HB3	6:P:473:GLU:CA	2.46	0.42
6:Q:11:TYR:OH	6:Q:209:ASN:HA	2.20	0.42
6:Q:119:VAL:HB	6:Q:129:ASN:ND2	2.35	0.42
6:Q:564:LEU:HA	6:Q:567:ARG:HH11	1.84	0.42
5:R:5:MET:HE1	6:V:494:THR:OG1	2.11	0.42
5:S:154:GLY:HA3	5:S:177:ASP:OD1	2.19	0.42
5:T:156:ILE:HG22	5:T:259:HIS:CD2	2.54	0.42
6:U:298:PHE:O	6:V:419:MET:HG2	2.19	0.42
6:U:330:GLN:NE2	6:U:455:SER:HA	2.35	0.42
6:U:374:VAL:HG22	6:U:396:VAL:HA	2.01	0.42
6:U:459:LEU:HD11	6:V:414:GLN:H	1.84	0.42
6:U:542:ARG:HG3	6:U:546:GLN:NE2	2.35	0.42
6:W:291:PRO:HA	6:W:468:PRO:HD2	2.01	0.42
6:X:174:ILE:HD11	6:X:634:LYS:HD2	2.01	0.42
6:X:181:CYS:HB3	6:X:186:LEU:HD11	2.01	0.42
6:X:346:ASP:OD2	6:X:427:GLU:HA	2.18	0.42
3:C:344:TYR:HD2	3:C:368:ILE:HB	1.85	0.42
3:C:421:ASN:ND2	3:C:429:ASN:HA	2.35	0.42
3:C:1064:TRP:HB3	3:C:1065:PRO:CD	2.46	0.42
3:C:1147:PHE:CD2	3:C:1147:PHE:C	2.98	0.42
4:D:323:VAL:HB	4:D:324:PRO:CD	2.50	0.42
5:F:34:ASN:OD1	5:F:36:ASP:HB3	2.18	0.42
6:I:72:SER:OG	6:J:235:LEU:HD13	2.15	0.42
6:I:119:VAL:HB	6:I:129:ASN:ND2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:278:THR:H	6:K:625:ARG:CZ	2.32	0.42
6:I:295:ARG:CZ	6:J:419:MET:CB	2.59	0.42
6:I:517:LEU:O	6:I:520:VAL:HB	2.20	0.42
6:J:36:LEU:CD1	6:K:242:PHE:CZ	2.99	0.42
6:J:48:TRP:HB2	6:J:118:TYR:HB2	2.02	0.42
6:J:154:ARG:HE	6:K:247:SER:CA	2.24	0.42
6:J:168:THR:HA	6:J:171:THR:HB	2.00	0.42
6:J:231:GLN:NE2	6:J:231:GLN:HA	2.34	0.42
6:J:356:THR:HG21	6:J:461:ASP:H	1.84	0.42
6:K:276:ALA:HB3	6:K:486:PRO:HD2	2.01	0.42
5:M:3:LEU:C	5:M:4:HIS:CG	2.96	0.42
5:N:147:HIS:HA	5:N:269:ASP:CG	2.43	0.42
6:O:119:VAL:HB	6:O:129:ASN:ND2	2.34	0.42
6:O:161:LYS:CD	6:P:534:SER:H	2.32	0.42
6:O:189:PHE:CG	6:O:645:TRP:HB3	2.53	0.42
6:O:291:PRO:HA	6:O:468:PRO:HD2	2.02	0.42
6:O:459:LEU:HD11	6:P:414:GLN:H	1.85	0.42
6:P:382:ILE:HA	6:P:385:VAL:HG23	2.02	0.42
5:R:13:MET:SD	5:R:48:ILE:HG21	2.60	0.42
5:S:3:LEU:C	5:S:4:HIS:CG	2.96	0.42
5:T:130:PHE:HE1	6:V:368:THR:HG22	1.84	0.42
6:U:181:CYS:HB3	6:U:186:LEU:HD11	2.02	0.42
6:U:280:LEU:HD12	6:W:622:GLU:HB2	1.79	0.42
6:V:254:GLY:CA	6:W:267:ALA:HB1	2.43	0.42
6:V:295:ARG:HD2	6:V:297:ALA:HB3	2.01	0.42
6:V:344:MET:O	6:V:345:ILE:HG13	2.19	0.42
6:V:525:ILE:HG22	6:V:527:VAL:HG13	2.00	0.42
6:W:119:VAL:HB	6:W:129:ASN:ND2	2.35	0.42
6:W:374:VAL:HG22	6:W:396:VAL:HA	2.02	0.42
6:W:542:ARG:HG3	6:W:546:GLN:NE2	2.34	0.42
6:X:309:GLU:OE2	6:X:337:ARG:HA	2.20	0.42
1:A:13:LEU:O	1:A:385:THR:HA	2.18	0.42
1:A:616:SER:HB3	1:A:662:ARG:NE	2.34	0.42
1:A:1038:ASN:OD1	1:A:1041:PRO:HD3	2.20	0.42
1:A:1233:ARG:NE	1:A:1292:GLY:HA2	2.34	0.42
2:B:242:ARG:NH1	2:B:266:PRO:HD2	2.35	0.42
2:B:1184:LEU:HA	2:B:1185:PRO:HA	1.76	0.42
3:C:274:TYR:CE2	3:C:300:MET:HE1	2.55	0.42
3:C:294:ARG:HG3	3:C:888:LEU:HD23	2.01	0.42
3:C:1095:ASP:OD1	3:C:1133:VAL:HG21	2.20	0.42
5:F:124:ASP:OD1	5:F:133:CYS:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:130:PHE:HE1	6:I:368:THR:CG2	2.32	0.42
5:H:13:MET:SD	5:H:48:ILE:HG21	2.59	0.42
5:H:156:ILE:HG22	5:H:259:HIS:CD2	2.54	0.42
6:I:84:LYS:HG3	6:K:42:ASN:OD1	2.16	0.42
6:I:280:LEU:HD12	6:K:622:GLU:C	2.44	0.42
6:K:317:ARG:HB3	6:K:330:GLN:OE1	2.19	0.42
6:O:174:ILE:HD11	6:O:634:LYS:HD2	2.01	0.42
6:O:610:THR:HA	6:Q:30:ALA:CB	2.31	0.42
6:P:15:GLY:HA3	6:P:222:ASN:CG	2.45	0.42
6:P:45:GLY:HA3	6:P:119:VAL:HG12	2.01	0.42
6:P:181:CYS:HB3	6:P:186:LEU:HD11	2.02	0.42
6:P:231:GLN:NE2	6:P:231:GLN:HA	2.35	0.42
6:P:440:LEU:HG	6:P:441:GLY:H	1.83	0.42
6:Q:181:CYS:HB3	6:Q:186:LEU:HD11	2.01	0.42
6:Q:382:ILE:HA	6:Q:385:VAL:HG23	2.02	0.42
5:R:11:HIS:CE1	5:R:234:ARG:HD3	2.55	0.42
5:S:34:ASN:OD1	5:S:36:ASP:HB3	2.19	0.42
5:T:41:VAL:HB	5:T:48:ILE:HB	2.02	0.42
6:U:330:GLN:O	6:U:457:PRO:HB3	2.19	0.42
6:U:346:ASP:HB2	6:U:470:LEU:HB2	2.02	0.42
6:U:368:THR:HA	6:U:403:SER:C	2.45	0.42
6:U:408:ALA:HA	6:U:416:ARG:O	2.18	0.42
6:V:36:LEU:CD1	6:W:242:PHE:CZ	2.99	0.42
6:V:318:LYS:HD2	6:V:326:THR:CB	2.46	0.42
6:V:330:GLN:NE2	6:V:455:SER:HA	2.34	0.42
6:X:15:GLY:HA3	6:X:222:ASN:CG	2.45	0.42
6:X:20:PHE:HB3	6:X:181:CYS:O	2.20	0.42
5:Y:114:THR:HB	5:Y:269:ASP:HB3	2.02	0.42
1:A:555:GLY:O	1:A:563:LEU:HA	2.19	0.42
2:B:1178:ARG:H	2:B:1178:ARG:NE	2.18	0.42
3:C:931:ILE:O	3:C:931:ILE:HG13	2.20	0.42
4:E:86:SER:O	4:E:110:PRO:HB2	2.19	0.42
4:E:336:ALA:C	6:U:55:VAL:HB	2.45	0.42
5:G:203:HIS:N	5:G:250:HIS:HB3	2.34	0.42
5:H:152:HIS:HD2	5:H:176:LEU:HD12	1.85	0.42
6:I:291:PRO:HA	6:I:468:PRO:HD2	2.01	0.42
6:I:564:LEU:HA	6:I:567:ARG:HH11	1.84	0.42
6:J:42:ASN:OD1	6:K:84:LYS:HG3	2.17	0.42
6:K:15:GLY:HA3	6:K:222:ASN:CG	2.45	0.42
6:K:355:GLY:O	6:K:416:ARG:HA	2.20	0.42
5:M:162:SER:HB3	5:M:261:ASP:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:41:VAL:HB	5:N:48:ILE:HB	2.01	0.42
5:N:105:ASP:HB2	5:N:111:VAL:O	2.20	0.42
5:N:154:GLY:HA3	5:N:177:ASP:OD1	2.20	0.42
6:O:74:VAL:HG23	6:O:135:VAL:O	2.20	0.42
6:O:298:PHE:O	6:P:419:MET:HG2	2.19	0.42
6:O:564:LEU:HA	6:O:567:ARG:HH11	1.85	0.42
6:P:119:VAL:HB	6:P:129:ASN:ND2	2.34	0.42
6:P:356:THR:HG21	6:P:461:ASP:H	1.85	0.42
6:P:537:SER:HB3	6:P:566:TRP:CH2	2.55	0.42
6:Q:167:MET:O	6:Q:172:PRO:HD2	2.19	0.42
6:Q:374:VAL:HG22	6:Q:396:VAL:HA	2.01	0.42
5:R:275:SER:C	5:R:276:ASP:O	2.61	0.42
5:T:154:GLY:HA3	5:T:177:ASP:OD1	2.20	0.42
6:U:58:ILE:H	6:U:58:ILE:HG13	1.61	0.42
6:U:252:LEU:H	6:U:252:LEU:CD1	2.32	0.42
6:U:482:ASP:OD1	6:W:530:ARG:NH2	2.50	0.42
6:V:15:GLY:HA3	6:V:222:ASN:CG	2.45	0.42
6:W:368:THR:HA	6:W:403:SER:C	2.44	0.42
1:A:248:LEU:HD23	2:B:629:GLN:OE1	2.20	0.42
1:A:452:TYR:HD2	1:A:456:GLN:HG3	1.85	0.42
1:A:860:CYS:HB3	1:A:864:MET:SD	2.60	0.42
2:B:272:HIS:H	2:B:272:HIS:CD2	2.38	0.42
2:B:321:VAL:HG11	3:C:891:PHE:CE1	2.55	0.42
2:B:1194:LEU:HD22	2:B:1196:ARG:HG3	2.01	0.42
2:B:1195:TYR:HB3	2:B:1197:TYR:CE1	2.55	0.42
3:C:314:SER:O	3:C:1196:ARG:NH2	2.53	0.42
3:C:968:PHE:CE2	3:C:972:MET:HG2	2.54	0.42
3:C:1199:PHE:HB2	3:C:1201:TYR:CZ	2.55	0.42
4:D:342:ARG:HG3	4:D:349:ALA:HB2	2.02	0.42
5:F:34:ASN:H	5:F:34:ASN:ND2	2.16	0.42
5:G:66:GLN:HA	5:G:69:HIS:HD2	1.85	0.42
6:I:44:THR:OG1	6:J:84:LYS:NZ	2.22	0.42
6:I:74:VAL:HG23	6:I:135:VAL:O	2.20	0.42
6:I:89:ILE:HG21	6:I:152:ARG:HD3	2.01	0.42
6:I:562:TYR:CG	6:K:194:LEU:CA	3.02	0.42
6:J:30:ALA:HB2	6:K:610:THR:HB	2.00	0.42
6:J:167:MET:O	6:J:172:PRO:HD2	2.19	0.42
6:J:168:THR:HG1	6:K:537:SER:HB2	1.79	0.42
6:J:530:ARG:HA	6:K:472:ARG:HG3	2.01	0.42
6:K:92:TRP:CD1	6:K:210:VAL:HG21	2.55	0.42
6:K:174:ILE:HD11	6:K:634:LYS:HD2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:356:THR:HG21	6:K:461:ASP:H	1.84	0.42
5:L:156:ILE:HG22	5:L:259:HIS:CD2	2.54	0.42
6:O:242:PHE:CD2	6:Q:41:LEU:HD22	2.43	0.42
6:O:330:GLN:NE2	6:O:455:SER:HA	2.35	0.42
6:O:382:ILE:HA	6:O:385:VAL:HG23	2.02	0.42
6:O:533:ASP:CG	6:Q:161:LYS:CD	2.65	0.42
6:O:622:GLU:CD	6:P:279:PRO:O	2.61	0.42
6:P:89:ILE:HG21	6:P:152:ARG:HD3	2.02	0.42
6:P:168:THR:HA	6:P:171:THR:HB	2.02	0.42
6:Q:356:THR:HG21	6:Q:461:ASP:H	1.85	0.42
6:Q:640:GLN:HE21	6:Q:644:LEU:HD12	1.85	0.42
5:R:80:ARG:HD2	5:R:80:ARG:C	2.45	0.42
5:T:125:ILE:HA	5:T:197:VAL:HG11	2.02	0.42
6:U:45:GLY:HA3	6:U:119:VAL:HG12	2.02	0.42
6:U:167:MET:O	6:U:172:PRO:HD2	2.20	0.42
6:U:256:SER:OG	6:W:34:ILE:C	2.51	0.42
6:V:174:ILE:HD11	6:V:634:LYS:HD2	2.02	0.42
6:W:330:GLN:NE2	6:W:455:SER:HA	2.35	0.42
6:X:231:GLN:NE2	6:X:231:GLN:HA	2.35	0.42
6:X:295:ARG:HD2	6:X:297:ALA:HB3	2.01	0.42
6:X:330:GLN:NE2	6:X:455:SER:HA	2.35	0.42
6:X:377:GLN:HB2	6:X:393:ALA:HB3	2.01	0.42
6:X:382:ILE:HA	6:X:385:VAL:HG23	2.01	0.42
6:X:440:LEU:HG	6:X:441:GLY:H	1.84	0.42
1:A:231:ASP:OD2	1:A:286:ASP:HB3	2.19	0.42
1:A:531:PRO:HB2	1:A:534:LEU:HG	2.02	0.42
1:A:1065:HIS:HB2	1:A:1108:PHE:CD1	2.55	0.42
3:C:621:TRP:HB2	3:C:776:GLN:NE2	2.28	0.42
3:C:1004:PHE:CZ	3:C:1075:LEU:HB2	2.55	0.42
4:D:392:ALA:CA	6:P:49:ARG:HH21	2.23	0.42
5:F:13:MET:SD	5:F:48:ILE:HG21	2.60	0.42
6:I:181:CYS:HB3	6:I:186:LEU:HD11	2.02	0.42
6:I:318:LYS:HD2	6:I:326:THR:CB	2.46	0.42
6:I:368:THR:HA	6:I:403:SER:C	2.44	0.42
6:J:36:LEU:C	6:K:253:VAL:CG1	2.93	0.42
6:J:74:VAL:HG23	6:J:135:VAL:O	2.19	0.42
6:J:317:ARG:HB3	6:J:330:GLN:OE1	2.19	0.42
6:J:318:LYS:CD	6:J:326:THR:HB	2.46	0.42
6:K:640:GLN:HE21	6:K:644:LEU:HD12	1.85	0.42
5:L:5:MET:HG3	6:P:494:THR:HG21	2.01	0.42
5:L:194:LEU:CD1	6:Q:448:PRO:HD2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:5:MET:CE	6:Q:303:ASP:OD1	2.68	0.42
5:M:13:MET:SD	5:M:48:ILE:HG21	2.60	0.42
5:N:132:THR:HB	5:N:138:SER:HB2	2.01	0.42
6:O:231:GLN:HA	6:O:231:GLN:NE2	2.35	0.42
6:O:412:ARG:HH12	6:Q:459:LEU:HD23	1.81	0.42
6:O:542:ARG:HG3	6:O:546:GLN:NE2	2.35	0.42
6:P:330:GLN:NE2	6:P:455:SER:HA	2.35	0.42
6:Q:344:MET:O	6:Q:345:ILE:HG13	2.19	0.42
6:Q:368:THR:HA	6:Q:403:SER:C	2.45	0.42
5:S:156:ILE:HG22	5:S:259:HIS:CD2	2.54	0.42
5:T:13:MET:SD	5:T:48:ILE:HG21	2.59	0.42
6:U:295:ARG:CZ	6:V:354:SER:CB	2.93	0.42
6:U:525:ILE:HG22	6:U:527:VAL:HG13	2.01	0.42
6:V:181:CYS:HB3	6:V:186:LEU:HD11	2.02	0.42
6:V:349:LEU:HB2	6:V:424:ALA:HB3	2.02	0.42
6:V:638:PHE:O	6:V:641:ILE:HB	2.19	0.42
6:W:92:TRP:CD1	6:W:210:VAL:HG21	2.55	0.42
6:W:231:GLN:HA	6:W:231:GLN:NE2	2.35	0.42
6:W:238:VAL:HG13	6:W:239:ALA:H	1.85	0.42
6:W:368:THR:N	6:W:404:ALA:HB3	2.35	0.42
6:X:189:PHE:CD1	6:X:641:ILE:HG23	2.55	0.42
6:X:542:ARG:HG3	6:X:546:GLN:NE2	2.34	0.42
1:A:294:SER:C	1:A:296:ASP:H	2.28	0.41
1:A:473:ARG:C	1:A:477:ARG:HE	2.28	0.41
2:B:551:PRO:HA	2:B:565:LYS:HD2	2.02	0.41
2:B:811:LEU:HA	2:B:812:PRO:HD3	1.74	0.41
2:B:1172:LEU:HG	2:B:1172:LEU:O	2.19	0.41
3:C:331:ARG:HD3	3:C:333:PHE:HA	2.02	0.41
3:C:374:ALA:O	3:C:377:ILE:HD11	2.20	0.41
3:C:395:THR:O	3:C:398:ILE:HB	2.19	0.41
3:C:984:LEU:HB2	3:C:1074:VAL:HB	2.02	0.41
4:D:166:MET:SD	4:D:166:MET:C	3.03	0.41
4:D:222:ARG:CD	4:D:227:ARG:HH22	2.33	0.41
4:E:336:ALA:HB2	6:U:55:VAL:H	1.81	0.41
5:F:154:GLY:HA3	5:F:177:ASP:OD1	2.20	0.41
5:G:156:ILE:HG22	5:G:259:HIS:CD2	2.54	0.41
5:H:154:GLY:HA3	5:H:177:ASP:OD1	2.20	0.41
5:H:182:HIS:HA	5:H:184:LYS:HZ2	1.85	0.41
6:I:542:ARG:HG3	6:I:546:GLN:NE2	2.34	0.41
6:I:640:GLN:HE21	6:I:644:LEU:HD12	1.85	0.41
6:J:330:GLN:NE2	6:J:455:SER:HA	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:346:ASP:HB2	6:J:470:LEU:HB2	2.02	0.41
6:J:459:LEU:HD22	6:K:409:ILE:CG2	2.40	0.41
6:J:564:LEU:HA	6:J:567:ARG:HH11	1.85	0.41
6:K:74:VAL:HG23	6:K:135:VAL:O	2.20	0.41
6:K:447:SER:HA	6:K:448:PRO:HD3	1.71	0.41
5:N:130:PHE:HE1	6:P:368:THR:HG22	1.85	0.41
6:O:122:THR:HG23	6:P:90:ASN:HB2	2.01	0.41
6:O:167:MET:O	6:O:172:PRO:HD2	2.20	0.41
6:O:252:LEU:H	6:O:252:LEU:CD1	2.31	0.41
6:O:256:SER:OG	6:Q:34:ILE:C	2.51	0.41
6:O:289:LEU:O	6:Q:578:SER:O	2.38	0.41
6:O:349:LEU:HB2	6:O:424:ALA:HB3	2.02	0.41
6:O:356:THR:HG21	6:O:461:ASP:H	1.85	0.41
6:O:481:VAL:C	6:O:483:ALA:H	2.26	0.41
6:O:537:SER:HB2	6:Q:165:THR:O	2.15	0.41
6:P:44:THR:HG1	6:Q:84:LYS:HD3	1.75	0.41
6:P:182:ASN:O	6:P:186:LEU:HD12	2.20	0.41
6:P:287:PRO:HB2	6:P:288:SER:H	1.65	0.41
6:P:298:PHE:HE2	6:Q:416:ARG:C	1.93	0.41
6:Q:15:GLY:HA3	6:Q:222:ASN:CG	2.45	0.41
6:Q:45:GLY:HA3	6:Q:119:VAL:HG12	2.02	0.41
6:Q:84:LYS:O	6:Q:87:PHE:HB2	2.20	0.41
6:Q:475:THR:O	6:Q:505:ASP:HA	2.20	0.41
5:R:114:THR:HB	5:R:269:ASP:HB3	2.02	0.41
5:S:194:LEU:HD13	6:U:447:SER:HG	1.78	0.41
5:T:26:THR:CB	5:T:38:ALA:HA	2.49	0.41
5:T:66:GLN:HA	5:T:69:HIS:HD2	1.85	0.41
6:U:119:VAL:HB	6:U:129:ASN:ND2	2.34	0.41
6:U:171:THR:HA	6:U:172:PRO:HD2	1.76	0.41
6:U:459:LEU:CD2	6:V:409:ILE:O	2.68	0.41
6:V:89:ILE:HG21	6:V:152:ARG:HD3	2.02	0.41
6:V:276:ALA:HB3	6:V:486:PRO:HD2	2.01	0.41
5:Y:13:MET:SD	5:Y:48:ILE:HG21	2.60	0.41
1:A:397:PRO:HA	1:A:747:THR:CG2	2.50	0.41
1:A:681:LEU:HA	1:A:684:ARG:HE	1.84	0.41
1:A:841:ARG:O	1:A:845:LEU:HG	2.20	0.41
2:B:652:GLN:NE2	2:B:773:ARG:NH1	2.67	0.41
3:C:525:TYR:HA	3:C:528:PHE:CD1	2.55	0.41
3:C:647:ARG:HG2	3:C:774:LEU:HD13	2.02	0.41
3:C:799:ASP:HB3	3:C:801:ARG:HG3	2.02	0.41
3:C:891:PHE:CZ	3:C:893:VAL:HG12	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:7:PHE:HB2	4:D:119:LEU:HD21	2.02	0.41
4:D:35:ARG:HB2	4:D:40:ARG:HH22	1.86	0.41
4:D:35:ARG:HA	4:D:36:PRO:HD2	1.96	0.41
4:D:390:ASN:HB3	6:P:50:PRO:HG2	1.76	0.41
5:F:4:HIS:CG	6:J:586:VAL:CB	2.94	0.41
5:F:132:THR:HB	5:F:138:SER:HB2	2.02	0.41
5:H:41:VAL:HB	5:H:48:ILE:HB	2.01	0.41
6:I:167:MET:O	6:I:172:PRO:HD2	2.20	0.41
6:I:170:LEU:HD21	6:J:545:VAL:CG2	2.50	0.41
6:I:330:GLN:NE2	6:I:455:SER:HA	2.35	0.41
6:J:295:ARG:CZ	6:K:419:MET:CB	2.62	0.41
6:J:304:ALA:HB3	6:J:307:ILE:O	2.20	0.41
6:J:374:VAL:HG22	6:J:396:VAL:HA	2.02	0.41
6:J:457:PRO:HD2	6:K:411:VAL:CB	2.44	0.41
6:J:525:ILE:HG22	6:J:527:VAL:HG13	2.02	0.41
5:M:182:HIS:C	5:M:184:LYS:H	2.28	0.41
6:O:15:GLY:HA3	6:O:222:ASN:CG	2.45	0.41
6:O:20:PHE:HB3	6:O:181:CYS:O	2.20	0.41
6:O:235:LEU:HD12	6:Q:72:SER:OG	2.19	0.41
6:P:151:ALA:HA	6:Q:248:GLU:OE2	2.19	0.41
6:P:346:ASP:HB2	6:P:470:LEU:HB2	2.02	0.41
6:P:564:LEU:HA	6:P:567:ARG:HH11	1.84	0.41
6:P:630:LEU:HD11	6:Q:275:GLU:HG3	1.91	0.41
6:Q:75:ASN:HB3	6:Q:78:MET:CB	2.42	0.41
6:Q:542:ARG:HG3	6:Q:546:GLN:NE2	2.35	0.41
5:T:105:ASP:HB2	5:T:111:VAL:O	2.20	0.41
5:T:258:ALA:O	5:T:262:CYS:HB2	2.20	0.41
6:U:195:PRO:CD	6:V:562:TYR:CG	2.77	0.41
6:U:280:LEU:HA	6:W:622:GLU:HB3	2.01	0.41
6:U:517:LEU:O	6:U:520:VAL:HB	2.20	0.41
6:V:644:LEU:HD23	6:W:548:LYS:CE	2.19	0.41
6:X:45:GLY:HA3	6:X:119:VAL:HG12	2.02	0.41
6:X:74:VAL:HG23	6:X:135:VAL:O	2.20	0.41
6:X:349:LEU:HB2	6:X:424:ALA:HB3	2.02	0.41
5:Y:88:LYS:O	5:Y:125:ILE:HD12	2.20	0.41
5:Y:266:VAL:C	5:Y:268:LEU:H	2.28	0.41
1:A:19:ARG:HA	1:A:282:VAL:O	2.20	0.41
1:A:1225:ASP:HA	1:A:1228:ARG:HH11	1.85	0.41
2:B:417:VAL:HG13	2:B:1208:MET:SD	2.60	0.41
2:B:937:ALA:HA	2:B:946:VAL:O	2.20	0.41
2:B:1015:GLY:HA2	2:B:1051:VAL:HG11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:26:THR:CB	5:F:38:ALA:HA	2.50	0.41
5:G:114:THR:HB	5:G:269:ASP:HB3	2.03	0.41
5:H:52:CYS:C	5:H:54:THR:N	2.78	0.41
5:H:125:ILE:HA	5:H:197:VAL:HG11	2.02	0.41
6:I:344:MET:O	6:I:345:ILE:HG13	2.20	0.41
6:I:382:ILE:HA	6:I:385:VAL:HG23	2.03	0.41
6:I:459:LEU:HD11	6:J:414:GLN:H	1.84	0.41
6:I:459:LEU:HD22	6:J:414:GLN:NE2	2.22	0.41
6:J:45:GLY:HA3	6:J:119:VAL:HG12	2.02	0.41
6:J:92:TRP:CD1	6:J:210:VAL:HG21	2.56	0.41
6:J:546:GLN:HE22	6:J:596:MET:HE2	1.85	0.41
6:K:564:LEU:HA	6:K:567:ARG:HH11	1.85	0.41
5:L:124:ASP:OD1	5:L:133:CYS:HB2	2.20	0.41
5:N:124:ASP:OD1	5:N:133:CYS:HB2	2.20	0.41
5:N:156:ILE:HG22	5:N:259:HIS:CD2	2.54	0.41
6:O:256:SER:CA	6:Q:33:ALA:CB	2.77	0.41
6:O:267:ALA:HB1	6:Q:254:GLY:CA	2.40	0.41
6:O:368:THR:HA	6:O:403:SER:C	2.45	0.41
6:O:588:ILE:O	6:O:589:PRO:C	2.63	0.41
6:P:48:TRP:HB2	6:P:118:TYR:HB2	2.02	0.41
6:Q:540:VAL:HG21	6:Q:566:TRP:CE2	2.56	0.41
5:R:60:ALA:H	5:R:66:GLN:NE2	2.19	0.41
5:T:182:HIS:HA	5:T:184:LYS:HZ2	1.85	0.41
6:U:92:TRP:CD1	6:U:210:VAL:HG21	2.55	0.41
6:V:66:ASP:OD1	6:W:232:ALA:HB1	2.00	0.41
6:V:298:PHE:O	6:W:418:ASN:CG	2.63	0.41
6:V:537:SER:HB3	6:V:566:TRP:CH2	2.56	0.41
6:V:564:LEU:HA	6:V:567:ARG:HH11	1.85	0.41
6:W:11:TYR:OH	6:W:209:ASN:HA	2.20	0.41
6:W:355:GLY:O	6:W:416:ARG:HA	2.20	0.41
6:X:91:MET:HB2	6:X:214:ARG:HH11	1.86	0.41
1:A:482:PRO:HD2	1:A:485:ARG:HH11	1.82	0.41
1:A:1185:THR:C	1:A:1187:ALA:H	2.28	0.41
2:B:353:GLN:HE21	3:C:1020:ILE:CG1	2.33	0.41
2:B:749:HIS:HB2	2:B:750:MET:SD	2.61	0.41
2:B:1157:ALA:O	2:B:1160:GLU:HB2	2.20	0.41
3:C:679:TRP:CH2	3:C:697:MET:HG3	2.55	0.41
3:C:792:GLN:NE2	4:D:346:LEU:O	2.52	0.41
3:C:921:ASP:O	3:C:922:GLY:C	2.64	0.41
3:C:955:SER:HB2	3:C:958:HIS:HB3	2.02	0.41
3:C:1056:VAL:HA	3:C:1059:PHE:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:326:LEU:HG	4:E:328:TYR:H	1.84	0.41
5:F:5:MET:HG3	6:J:494:THR:HG21	2.01	0.41
5:H:130:PHE:CG	6:J:446:PRO:CB	3.03	0.41
6:I:298:PHE:O	6:J:419:MET:HG2	2.21	0.41
6:I:333:PRO:CA	6:J:411:VAL:HG22	2.42	0.41
6:I:530:ARG:H	6:J:472:ARG:HD2	1.68	0.41
6:I:562:TYR:CZ	6:K:193:ILE:CA	2.74	0.41
6:J:27:THR:HG22	6:K:609:ARG:NH2	2.35	0.41
6:J:91:MET:HB2	6:J:214:ARG:HH11	1.86	0.41
6:J:188:ALA:HB3	6:J:647:GLY:CA	2.47	0.41
6:J:330:GLN:O	6:J:457:PRO:HB3	2.20	0.41
6:O:45:GLY:HA3	6:O:119:VAL:HG12	2.03	0.41
6:O:165:THR:O	6:P:537:SER:HB3	2.16	0.41
6:O:181:CYS:HB3	6:O:186:LEU:HD11	2.02	0.41
6:O:295:ARG:HD2	6:O:297:ALA:HB3	2.03	0.41
6:O:525:ILE:HG22	6:O:527:VAL:HG13	2.01	0.41
6:P:20:PHE:HB3	6:P:181:CYS:O	2.20	0.41
6:P:50:PRO:HD3	6:P:118:TYR:HE1	1.82	0.41
6:P:100:LYS:CG	6:W:147:ARG:NH1	2.83	0.41
6:P:193:ILE:CG2	6:Q:562:TYR:CD1	2.80	0.41
6:P:276:ALA:HB3	6:P:486:PRO:HD2	2.02	0.41
6:P:280:LEU:HG	6:P:281:PRO:HD2	2.01	0.41
6:P:588:ILE:O	6:P:589:PRO:C	2.63	0.41
6:Q:309:GLU:OE2	6:Q:337:ARG:HA	2.21	0.41
5:R:162:SER:HB3	5:R:261:ASP:HA	2.01	0.41
5:S:5:MET:CE	6:W:303:ASP:OD1	2.67	0.41
5:T:52:CYS:C	5:T:54:THR:N	2.77	0.41
6:U:641:ILE:HG12	6:V:545:VAL:CB	2.49	0.41
6:V:74:VAL:HG23	6:V:135:VAL:O	2.20	0.41
6:V:167:MET:O	6:V:172:PRO:HD2	2.20	0.41
6:V:231:GLN:HA	6:V:231:GLN:NE2	2.36	0.41
6:V:440:LEU:HG	6:V:441:GLY:H	1.83	0.41
6:W:45:GLY:HA3	6:W:119:VAL:HG12	2.02	0.41
6:W:515:ASN:ND2	6:W:580:PRO:HG2	2.36	0.41
6:W:525:ILE:HG22	6:W:527:VAL:HG13	2.02	0.41
6:X:48:TRP:HB2	6:X:118:TYR:HB2	2.03	0.41
6:X:119:VAL:HB	6:X:129:ASN:ND2	2.35	0.41
1:A:206:TYR:CD2	1:A:238:HIS:HB3	2.56	0.41
2:B:984:LEU:HD12	2:B:1074:VAL:HG23	2.02	0.41
2:B:1021:VAL:HA	2:B:1022:PRO:HD2	1.90	0.41
2:B:1031:LEU:O	2:B:1038:PRO:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:436:LEU:N	4:E:48:THR:HG21	2.35	0.41
3:C:441:LEU:HG	3:C:443:PRO:HD3	2.02	0.41
3:C:712:VAL:O	3:C:726:ARG:NH2	2.52	0.41
4:E:132:LEU:HD23	4:E:132:LEU:HA	1.84	0.41
4:E:138:ILE:H	4:E:138:ILE:HD12	1.85	0.41
4:E:400:THR:CG2	6:U:53:THR:HG23	2.37	0.41
5:G:5:MET:HG3	6:K:494:THR:HG21	2.02	0.41
5:G:132:THR:HB	5:G:138:SER:HB2	2.02	0.41
5:G:154:GLY:HA3	5:G:177:ASP:OD1	2.20	0.41
5:H:124:ASP:OD1	5:H:133:CYS:HB2	2.21	0.41
6:I:43:PRO:HA	6:J:84:LYS:NZ	2.35	0.41
6:I:349:LEU:HB2	6:I:424:ALA:HB3	2.02	0.41
6:I:515:ASN:ND2	6:I:580:PRO:HG2	2.36	0.41
6:J:638:PHE:O	6:J:641:ILE:HB	2.20	0.41
6:K:428:ARG:HH22	6:K:480:VAL:HG11	1.85	0.41
6:K:562:TYR:H	6:K:562:TYR:HD1	1.63	0.41
5:N:52:CYS:C	5:N:54:THR:N	2.78	0.41
6:O:91:MET:HB2	6:O:214:ARG:HH11	1.85	0.41
6:O:330:GLN:O	6:O:457:PRO:HB3	2.21	0.41
6:O:346:ASP:HB2	6:O:470:LEU:HB2	2.02	0.41
6:O:562:TYR:CG	6:Q:195:PRO:CD	2.81	0.41
6:P:11:TYR:OH	6:P:209:ASN:HA	2.21	0.41
6:P:36:LEU:CD1	6:Q:242:PHE:CZ	2.99	0.41
6:Q:346:ASP:HB2	6:Q:470:LEU:HB2	2.03	0.41
5:R:194:LEU:CD1	6:W:448:PRO:HD2	2.50	0.41
5:T:124:ASP:OD1	5:T:133:CYS:HB2	2.21	0.41
6:U:276:ALA:HB3	6:U:486:PRO:HD2	2.03	0.41
6:U:382:ILE:HA	6:U:385:VAL:HG23	2.03	0.41
6:V:46:LYS:NZ	6:V:63:ILE:HB	2.36	0.41
6:V:622:GLU:HG2	6:W:279:PRO:C	2.41	0.41
6:W:317:ARG:HB3	6:W:330:GLN:OE1	2.19	0.41
6:X:58:ILE:H	6:X:58:ILE:HG13	1.62	0.41
6:X:344:MET:O	6:X:345:ILE:HG13	2.21	0.41
6:X:368:THR:HA	6:X:403:SER:C	2.46	0.41
6:X:515:ASN:ND2	6:X:580:PRO:HG2	2.36	0.41
5:Y:162:SER:HB3	5:Y:261:ASP:HA	2.02	0.41
1:A:396:ARG:HA	1:A:397:PRO:HD2	1.73	0.41
2:B:450:ASP:HB3	2:B:861:ARG:HH11	0.91	0.41
3:C:290:PRO:HB2	3:C:889:ARG:HH21	1.85	0.41
3:C:377:ILE:HG22	3:C:380:GLU:HA	2.00	0.41
3:C:695:SER:O	3:C:696:ALA:C	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:66:ILE:HG12	4:D:148:TRP:CZ3	2.56	0.41
4:D:301:ASP:OD2	4:D:323:VAL:HG13	2.21	0.41
4:D:342:ARG:HH11	4:D:348:THR:HA	1.86	0.41
6:I:242:PHE:CD2	6:K:41:LEU:HD22	2.44	0.41
6:I:408:ALA:HA	6:I:416:ARG:O	2.19	0.41
6:I:456:ASN:CG	6:J:412:ARG:CD	2.74	0.41
6:J:43:PRO:HA	6:K:84:LYS:HZ1	1.86	0.41
6:J:295:ARG:NH1	6:K:354:SER:CB	2.84	0.41
6:J:349:LEU:HB2	6:J:424:ALA:HB3	2.02	0.41
6:J:588:ILE:O	6:J:589:PRO:C	2.63	0.41
6:K:188:ALA:HB3	6:K:647:GLY:CA	2.49	0.41
6:K:349:LEU:HB2	6:K:424:ALA:HB3	2.02	0.41
5:L:11:HIS:HE1	5:L:234:ARG:HD3	1.85	0.41
5:L:44:GLY:CA	6:Q:400:ALA:O	2.35	0.41
5:M:4:HIS:NE2	6:Q:586:VAL:CA	2.83	0.41
5:M:41:VAL:HB	5:M:48:ILE:HB	2.02	0.41
5:M:130:PHE:CD1	6:O:368:THR:HG21	2.56	0.41
5:N:11:HIS:HE1	5:N:234:ARG:HD3	1.86	0.41
6:O:36:LEU:CD2	6:P:242:PHE:CB	2.23	0.41
6:O:280:LEU:HA	6:Q:622:GLU:HB3	2.03	0.41
6:O:515:ASN:ND2	6:O:580:PRO:HG2	2.35	0.41
6:O:562:TYR:CG	6:Q:194:LEU:CA	3.02	0.41
6:P:295:ARG:HD2	6:P:297:ALA:HB3	2.02	0.41
6:Q:74:VAL:HG23	6:Q:135:VAL:O	2.21	0.41
6:Q:295:ARG:HD2	6:Q:297:ALA:HB3	2.02	0.41
5:R:41:VAL:HB	5:R:48:ILE:HB	2.03	0.41
5:R:154:GLY:HA3	5:R:177:ASP:OD1	2.20	0.41
5:S:114:THR:HB	5:S:269:ASP:HB3	2.01	0.41
5:S:145:ARG:HA	5:S:150:ALA:HA	2.03	0.41
5:T:114:THR:HB	5:T:269:ASP:HB3	2.03	0.41
6:U:44:THR:HG22	6:V:84:LYS:NZ	2.12	0.41
6:U:304:ALA:HB3	6:U:307:ILE:O	2.21	0.41
6:V:182:ASN:O	6:V:186:LEU:HD12	2.21	0.41
6:V:588:ILE:O	6:V:589:PRO:C	2.63	0.41
5:Y:258:ALA:O	5:Y:262:CYS:HB2	2.20	0.41
2:B:511:ILE:HA	2:B:514:ILE:HD12	2.02	0.41
2:B:858:VAL:HG23	2:B:861:ARG:CZ	2.50	0.41
3:C:411:GLN:HE21	3:C:445:PHE:CA	2.34	0.41
3:C:419:ILE:HG21	3:C:662:LEU:HB2	2.02	0.41
3:C:436:LEU:CD2	4:E:43:HIS:HD2	2.26	0.41
4:D:71:LEU:HG	4:D:75:HIS:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:127:THR:HA	4:D:130:LEU:HD12	2.02	0.41
4:D:175:MET:HE2	4:D:175:MET:HB2	1.96	0.41
4:E:127:THR:O	4:E:130:LEU:HB3	2.20	0.41
5:G:124:ASP:OD1	5:G:133:CYS:HB2	2.20	0.41
5:G:266:VAL:C	5:G:268:LEU:H	2.29	0.41
6:J:44:THR:HG1	6:K:87:PHE:HE1	1.66	0.41
6:K:119:VAL:HB	6:K:129:ASN:ND2	2.36	0.41
6:K:231:GLN:HA	6:K:231:GLN:NE2	2.35	0.41
6:K:374:VAL:HG22	6:K:396:VAL:HA	2.02	0.41
5:N:80:ARG:HD2	5:N:80:ARG:C	2.46	0.41
6:O:84:LYS:HZ1	6:Q:43:PRO:HA	1.86	0.41
6:P:36:LEU:C	6:Q:253:VAL:CG1	2.93	0.41
6:P:291:PRO:HA	6:P:468:PRO:HD2	2.02	0.41
6:P:298:PHE:O	6:Q:418:ASN:CG	2.64	0.41
6:P:330:GLN:O	6:P:457:PRO:HB3	2.20	0.41
6:P:560:PRO:C	6:P:562:TYR:H	2.29	0.41
6:Q:588:ILE:O	6:Q:589:PRO:C	2.63	0.41
5:S:105:ASP:HB2	5:S:111:VAL:O	2.21	0.41
5:T:60:ALA:H	5:T:66:GLN:NE2	2.18	0.41
5:T:80:ARG:HD2	5:T:80:ARG:C	2.46	0.41
6:U:295:ARG:HH12	6:V:354:SER:HB2	1.86	0.41
6:U:298:PHE:CE1	6:V:416:ARG:HA	2.56	0.41
6:U:588:ILE:O	6:U:589:PRO:C	2.64	0.41
6:V:66:ASP:HB3	6:W:232:ALA:HB1	1.81	0.41
6:V:291:PRO:HA	6:V:468:PRO:HD2	2.02	0.41
6:V:528:ALA:HB1	6:W:283:SER:O	1.94	0.41
6:W:181:CYS:HB3	6:W:186:LEU:HD11	2.02	0.41
6:X:89:ILE:HG21	6:X:152:ARG:HD3	2.02	0.41
5:Y:11:HIS:CE1	5:Y:234:ARG:HD3	2.56	0.41
5:Y:125:ILE:HA	5:Y:197:VAL:HG11	2.03	0.41
1:A:14:ASN:HD22	1:A:276:ALA:HB3	1.85	0.41
3:C:191:PRO:HG3	3:C:859:ILE:HG13	2.03	0.41
3:C:238:GLY:HA3	3:C:241:ASN:OD1	2.21	0.41
3:C:238:GLY:O	3:C:1150:ASN:HA	2.20	0.41
3:C:404:MET:CE	4:E:172:ALA:O	2.69	0.41
4:D:91:THR:OG1	4:D:103:VAL:HG12	2.21	0.41
5:F:104:LEU:HB2	5:F:149:GLN:OE1	2.21	0.41
5:F:125:ILE:HA	5:F:197:VAL:HG11	2.03	0.41
5:F:152:HIS:HD2	5:F:176:LEU:HD12	1.86	0.41
5:G:52:CYS:C	5:G:54:THR:N	2.77	0.41
5:H:266:VAL:C	5:H:268:LEU:H	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:42:ASN:O	6:I:43:PRO:C	2.64	0.41
6:I:238:VAL:HG13	6:I:239:ALA:H	1.86	0.41
5:L:11:HIS:CE1	5:L:234:ARG:HD3	2.55	0.41
5:L:114:THR:HB	5:L:269:ASP:HB3	2.03	0.41
5:M:266:VAL:C	5:M:268:LEU:H	2.28	0.41
6:O:42:ASN:O	6:O:43:PRO:C	2.64	0.41
6:O:276:ALA:HB3	6:O:486:PRO:HD2	2.02	0.41
6:O:286:THR:HG22	6:O:287:PRO:O	2.21	0.41
6:O:304:ALA:HB3	6:O:307:ILE:O	2.21	0.41
6:O:422:LEU:HD23	6:O:422:LEU:HA	1.84	0.41
6:O:459:LEU:HD22	6:P:409:ILE:CG2	2.38	0.41
6:O:517:LEU:O	6:O:520:VAL:HB	2.20	0.41
6:O:561:ASP:HB2	6:Q:193:ILE:CG2	2.51	0.41
6:P:252:LEU:H	6:P:252:LEU:CD1	2.32	0.41
6:Q:330:GLN:NE2	6:Q:455:SER:HA	2.35	0.41
5:R:66:GLN:HA	5:R:69:HIS:HD2	1.85	0.41
6:V:48:TRP:HB2	6:V:118:TYR:HB2	2.03	0.41
6:W:49:ARG:HG2	6:W:64:VAL:HG12	2.03	0.41
6:W:517:LEU:O	6:W:520:VAL:HB	2.20	0.41
6:X:150:ALA:O	6:X:154:ARG:HG3	2.21	0.41
6:X:167:MET:O	6:X:172:PRO:HD2	2.20	0.41
6:X:317:ARG:HB3	6:X:330:GLN:OE1	2.20	0.41
6:X:356:THR:HG21	6:X:461:ASP:H	1.84	0.41
6:X:374:VAL:HG22	6:X:396:VAL:HA	2.03	0.41
6:X:525:ILE:HG22	6:X:527:VAL:HG13	2.02	0.41
5:Y:182:HIS:HA	5:Y:184:LYS:HZ2	1.85	0.41
1:A:26:ARG:HG3	1:A:29:LEU:H	1.86	0.41
1:A:347:GLN:NE2	1:A:381:PHE:HB3	2.36	0.41
1:A:424:SER:HA	1:A:425:PRO:C	2.46	0.41
1:A:894:THR:HA	1:A:930:TRP:HB2	2.01	0.41
1:A:1240:SER:HB3	1:A:1286:THR:OG1	2.20	0.41
2:B:409:MET:CE	2:B:443:PRO:CA	2.73	0.41
2:B:434:ILE:HD12	2:B:434:ILE:N	2.36	0.41
2:B:618:PRO:HG3	2:B:779:VAL:HB	2.02	0.41
2:B:652:GLN:HE21	2:B:773:ARG:NH1	2.19	0.41
2:B:897:ALA:O	2:B:900:GLU:HB2	2.21	0.41
3:C:314:SER:HA	3:C:1196:ARG:HG2	0.55	0.41
3:C:333:PHE:CD2	3:C:336:ARG:O	2.74	0.41
3:C:786:ALA:HA	3:C:787:ARG:HH22	1.85	0.41
3:C:788:VAL:HG12	3:C:789:ASP:H	1.86	0.41
3:C:1039:ARG:NH2	3:C:1040:ASP:HB2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:71:LEU:O	4:E:75:HIS:HD2	2.03	0.41
4:E:224:ASN:HA	4:E:233:TYR:CD1	2.56	0.41
5:F:11:HIS:CE1	5:F:234:ARG:HD3	2.56	0.41
5:F:52:CYS:C	5:F:54:THR:N	2.78	0.41
5:F:80:ARG:HD2	5:F:80:ARG:C	2.45	0.41
5:F:114:THR:HB	5:F:269:ASP:HB3	2.02	0.41
5:G:5:MET:CE	6:K:303:ASP:OD1	2.68	0.41
5:G:11:HIS:CE1	5:G:234:ARG:HD3	2.56	0.41
5:G:48:ILE:HG12	5:G:55:THR:CG2	2.51	0.41
6:I:11:TYR:OH	6:I:209:ASN:HA	2.20	0.41
6:I:15:GLY:HA3	6:I:222:ASN:CG	2.46	0.41
6:I:46:LYS:NZ	6:I:63:ILE:HB	2.36	0.41
6:I:66:ASP:CA	6:J:232:ALA:HB2	2.44	0.41
6:I:235:LEU:HD12	6:K:72:SER:OG	2.20	0.41
6:I:280:LEU:HG	6:I:281:PRO:HD2	2.01	0.41
6:I:295:ARG:HH12	6:J:354:SER:HB2	1.85	0.41
6:I:298:PHE:CE1	6:J:416:ARG:HA	2.52	0.41
6:I:346:ASP:HB2	6:I:470:LEU:HB2	2.02	0.41
6:I:355:GLY:O	6:I:416:ARG:HA	2.21	0.41
6:J:11:TYR:OH	6:J:209:ASN:HA	2.21	0.41
6:J:286:THR:HG22	6:J:287:PRO:O	2.21	0.41
6:J:368:THR:N	6:J:404:ALA:HB3	2.35	0.41
6:J:540:VAL:HG21	6:J:566:TRP:CE2	2.56	0.41
6:K:266:MET:HG3	6:K:271:LEU:HD11	2.03	0.41
6:K:330:GLN:NE2	6:K:455:SER:HA	2.35	0.41
6:K:346:ASP:HB2	6:K:470:LEU:HB2	2.03	0.41
6:K:542:ARG:HG3	6:K:546:GLN:NE2	2.35	0.41
6:K:588:ILE:O	6:K:589:PRO:C	2.63	0.41
5:L:4:HIS:CE1	6:P:586:VAL:CG2	2.87	0.41
5:M:60:ALA:H	5:M:66:GLN:NE2	2.19	0.41
5:N:162:SER:HB3	5:N:261:ASP:HA	2.03	0.41
6:O:41:LEU:HD13	6:P:239:ALA:CB	2.51	0.41
6:O:92:TRP:CD1	6:O:210:VAL:HG21	2.56	0.41
6:O:473:GLU:HA	6:Q:529:SER:CB	2.48	0.41
6:O:540:VAL:HG21	6:O:566:TRP:CE2	2.56	0.41
6:O:546:GLN:HE22	6:O:596:MET:HE2	1.86	0.41
6:O:641:ILE:HG12	6:P:545:VAL:CB	2.48	0.41
6:P:27:THR:HG22	6:Q:609:ARG:NH2	2.36	0.41
6:P:30:ALA:HB2	6:Q:610:THR:HB	2.00	0.41
6:P:84:LYS:O	6:P:87:PHE:HB2	2.20	0.41
6:P:92:TRP:CD1	6:P:210:VAL:HG21	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:344:MET:O	6:P:345:ILE:HG13	2.20	0.41
6:P:546:GLN:HE22	6:P:596:MET:HE2	1.86	0.41
6:Q:48:TRP:HB2	6:Q:118:TYR:HB2	2.02	0.41
6:Q:355:GLY:O	6:Q:416:ARG:HA	2.20	0.41
6:Q:440:LEU:HG	6:Q:441:GLY:H	1.82	0.41
5:R:105:ASP:HB2	5:R:111:VAL:O	2.21	0.41
5:S:130:PHE:CD1	6:U:368:THR:HG21	2.56	0.41
5:S:132:THR:HB	5:S:138:SER:HB2	2.02	0.41
5:T:11:HIS:CE1	5:T:234:ARG:HD3	2.56	0.41
5:T:11:HIS:HE1	5:T:234:ARG:HD3	1.85	0.41
5:T:266:VAL:C	5:T:268:LEU:H	2.29	0.41
6:U:20:PHE:HB3	6:U:181:CYS:O	2.20	0.41
6:U:48:TRP:HB2	6:U:118:TYR:HB2	2.03	0.41
6:U:246:THR:C	6:W:154:ARG:NH1	2.61	0.41
6:U:309:GLU:OE2	6:U:337:ARG:HA	2.21	0.41
6:V:27:THR:HG22	6:W:609:ARG:NH2	2.35	0.41
6:V:168:THR:HA	6:V:171:THR:HB	2.02	0.41
6:V:266:MET:HG3	6:V:271:LEU:HD11	2.03	0.41
6:V:318:LYS:CD	6:V:326:THR:HB	2.46	0.41
6:W:174:ILE:HD11	6:W:634:LYS:HD2	2.02	0.41
6:W:349:LEU:HB2	6:W:424:ALA:HB3	2.02	0.41
6:W:356:THR:HG21	6:W:461:ASP:H	1.86	0.41
6:X:92:TRP:CD1	6:X:210:VAL:HG21	2.56	0.41
6:X:422:LEU:HA	6:X:422:LEU:HD23	1.82	0.41
5:Y:275:SER:C	5:Y:276:ASP:O	2.62	0.41
1:A:765:PHE:CG	1:A:766:LEU:N	2.89	0.41
1:A:953:ASP:O	1:A:953:ASP:CG	2.64	0.41
2:B:378:GLY:N	3:C:797:ALA:O	1.98	0.41
3:C:262:ARG:HG2	3:C:262:ARG:NH1	2.36	0.41
3:C:572:ALA:O	3:C:573:GLY:C	2.63	0.41
4:D:231:GLY:HA2	4:D:251:ASN:O	2.21	0.41
5:F:275:SER:C	5:F:276:ASP:O	2.61	0.41
5:G:4:HIS:NE2	6:K:586:VAL:CA	2.84	0.41
6:I:91:MET:HB2	6:I:214:ARG:HH11	1.85	0.41
6:I:280:LEU:HA	6:K:622:GLU:HB3	2.02	0.41
6:I:281:PRO:CD	6:K:622:GLU:CB	2.88	0.41
6:I:534:SER:OG	6:K:161:LYS:CA	2.69	0.41
6:I:626:ALA:CB	6:J:275:GLU:O	2.44	0.41
6:J:298:PHE:O	6:K:418:ASN:CG	2.64	0.41
6:J:459:LEU:HD21	6:K:412:ARG:NH2	2.17	0.41
6:J:622:GLU:CB	6:K:280:LEU:CD1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:45:GLY:HA3	6:K:119:VAL:HG12	2.02	0.41
6:K:344:MET:O	6:K:345:ILE:HG13	2.20	0.41
6:O:379:SER:O	6:O:381:PRO:HD3	2.21	0.41
6:P:298:PHE:HZ	6:Q:416:ARG:HA	1.80	0.41
6:Q:20:PHE:HB3	6:Q:181:CYS:O	2.21	0.41
5:R:52:CYS:C	5:R:54:THR:N	2.78	0.41
5:S:66:GLN:HA	5:S:69:HIS:HD2	1.85	0.41
5:S:124:ASP:OD1	5:S:133:CYS:HB2	2.21	0.41
6:U:36:LEU:HD21	6:V:242:PHE:HB3	0.53	0.41
6:U:46:LYS:NZ	6:U:63:ILE:HB	2.36	0.41
6:U:349:LEU:HB2	6:U:424:ALA:HB3	2.02	0.41
6:U:356:THR:HG21	6:U:461:ASP:H	1.86	0.41
6:U:419:MET:H	6:W:298:PHE:CB	2.28	0.41
6:U:622:GLU:CD	6:V:279:PRO:O	2.59	0.41
6:V:92:TRP:CD1	6:V:210:VAL:HG21	2.56	0.41
6:V:295:ARG:NH1	6:W:354:SER:CB	2.83	0.41
6:W:91:MET:HB2	6:W:214:ARG:HH11	1.86	0.41
6:W:309:GLU:OE2	6:W:337:ARG:HA	2.21	0.41
6:W:382:ILE:HA	6:W:385:VAL:HG23	2.02	0.41
5:Y:52:CYS:C	5:Y:54:THR:N	2.77	0.41
5:Y:145:ARG:HA	5:Y:150:ALA:HA	2.03	0.41
1:A:87:PHE:O	1:A:90:ASP:HB2	2.21	0.40
1:A:605:THR:O	1:A:609:MET:HG2	2.21	0.40
1:A:899:ILE:O	1:A:902:ALA:HB3	2.21	0.40
2:B:436:LEU:HD12	4:D:175:MET:C	2.46	0.40
2:B:952:PRO:CA	4:D:35:ARG:CD	2.77	0.40
2:B:1103:TRP:CZ3	2:B:1107:ILE:HD11	2.56	0.40
4:D:219:LEU:HD12	4:D:337:ARG:NH1	2.37	0.40
6:I:276:ALA:HB3	6:I:486:PRO:HD2	2.02	0.40
6:I:289:LEU:O	6:K:578:SER:O	2.39	0.40
6:I:374:VAL:HG22	6:I:396:VAL:HA	2.02	0.40
6:J:20:PHE:HB3	6:J:181:CYS:O	2.20	0.40
6:J:276:ALA:HB3	6:J:486:PRO:HD2	2.02	0.40
6:J:298:PHE:HB3	6:K:418:ASN:CG	2.46	0.40
6:J:515:ASN:ND2	6:J:580:PRO:HG2	2.36	0.40
6:K:182:ASN:O	6:K:186:LEU:HD12	2.21	0.40
6:K:185:SER:HA	6:K:647:GLY:CA	2.51	0.40
6:K:546:GLN:HE22	6:K:596:MET:HE2	1.86	0.40
5:L:218:MET:SD	5:L:218:MET:N	2.91	0.40
5:M:124:ASP:OD1	5:M:133:CYS:HB2	2.21	0.40
5:N:104:LEU:HB2	5:N:149:GLN:OE1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:170:LEU:HD21	6:P:545:VAL:CG2	2.51	0.40
6:O:272:ASP:CG	6:Q:627:ARG:HD3	2.46	0.40
6:O:318:LYS:HD2	6:O:326:THR:CB	2.46	0.40
6:O:541:SER:OG	6:Q:169:MET:O	2.04	0.40
6:P:28:SER:CB	6:Q:606:THR:CG2	2.88	0.40
6:P:530:ARG:HA	6:Q:472:ARG:HG3	2.00	0.40
6:Q:276:ALA:HB3	6:Q:486:PRO:HD2	2.02	0.40
6:U:298:PHE:HE2	6:V:416:ARG:C	1.93	0.40
6:V:45:GLY:HA3	6:V:119:VAL:HG12	2.03	0.40
6:V:119:VAL:HB	6:V:129:ASN:ND2	2.35	0.40
6:V:286:THR:HG22	6:V:287:PRO:O	2.21	0.40
6:V:506:ALA:O	6:V:510:VAL:HG23	2.21	0.40
6:V:645:TRP:HA	6:V:646:PRO:HD2	1.90	0.40
6:W:286:THR:HG22	6:W:287:PRO:O	2.22	0.40
6:W:304:ALA:HB3	6:W:307:ILE:O	2.22	0.40
6:X:46:LYS:NZ	6:X:63:ILE:HB	2.36	0.40
6:X:291:PRO:HA	6:X:468:PRO:HD2	2.02	0.40
6:X:447:SER:HA	6:X:448:PRO:HD3	1.76	0.40
6:X:645:TRP:HA	6:X:646:PRO:HD2	1.90	0.40
5:Y:26:THR:CB	5:Y:38:ALA:HA	2.49	0.40
1:A:81:TYR:HB2	1:A:180:LEU:HD13	2.02	0.40
1:A:391:VAL:HB	1:A:790:ARG:HG2	2.02	0.40
1:A:502:ASN:HA	1:A:503:PRO:HD2	1.89	0.40
1:A:750:PRO:HD2	1:A:793:THR:HA	2.03	0.40
2:B:204:PHE:CE2	2:B:974:LEU:HB3	2.57	0.40
2:B:376:LEU:O	3:C:797:ALA:C	2.62	0.40
2:B:411:GLN:OE1	4:D:192:PHE:CZ	2.75	0.40
2:B:728:THR:O	2:B:732:VAL:HG23	2.21	0.40
3:C:436:LEU:CG	4:E:43:HIS:CD2	3.03	0.40
3:C:800:ILE:HG13	3:C:801:ARG:N	2.36	0.40
3:C:1032:ILE:HG23	3:C:1036:ASN:HA	2.03	0.40
4:D:13:PHE:CD1	4:D:13:PHE:N	2.89	0.40
4:D:266:TYR:HH	4:D:296:LEU:HB3	1.84	0.40
4:E:335:ALA:C	6:U:55:VAL:N	2.78	0.40
6:I:459:LEU:CA	6:J:412:ARG:HE	2.21	0.40
6:I:609:ARG:C	6:K:32:PRO:CG	2.78	0.40
6:J:517:LEU:O	6:J:520:VAL:HB	2.21	0.40
6:K:91:MET:HB2	6:K:214:ARG:HH11	1.85	0.40
6:K:295:ARG:HD2	6:K:297:ALA:HB3	2.03	0.40
6:K:318:LYS:CD	6:K:326:THR:HB	2.46	0.40
6:K:368:THR:HA	6:K:403:SER:C	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:515:ASN:ND2	6:K:580:PRO:HG2	2.37	0.40
6:K:517:LEU:O	6:K:520:VAL:HB	2.21	0.40
5:L:26:THR:CB	5:L:38:ALA:HA	2.49	0.40
5:N:125:ILE:HA	5:N:197:VAL:HG11	2.03	0.40
5:N:182:HIS:HA	5:N:184:LYS:HZ2	1.86	0.40
6:O:635:GLN:HA	6:O:638:PHE:CD2	2.57	0.40
6:P:91:MET:HB2	6:P:214:ARG:HH11	1.85	0.40
6:Q:92:TRP:CD1	6:Q:210:VAL:HG21	2.55	0.40
5:S:4:HIS:NE2	6:W:586:VAL:CA	2.84	0.40
5:S:125:ILE:HA	5:S:197:VAL:HG11	2.02	0.40
6:U:289:LEU:O	6:W:578:SER:O	2.38	0.40
6:U:548:LYS:HE3	6:W:644:LEU:HD23	1.89	0.40
6:V:238:VAL:HG13	6:V:239:ALA:H	1.86	0.40
6:W:48:TRP:HB2	6:W:118:TYR:HB2	2.03	0.40
6:W:74:VAL:HG23	6:W:135:VAL:O	2.21	0.40
6:W:276:ALA:HB3	6:W:486:PRO:HD2	2.02	0.40
6:W:564:LEU:HA	6:W:567:ARG:HH11	1.86	0.40
6:W:588:ILE:O	6:W:589:PRO:C	2.63	0.40
6:X:409:ILE:O	6:X:414:GLN:HB2	2.21	0.40
5:Y:154:GLY:HA3	5:Y:177:ASP:OD1	2.21	0.40
1:A:377:ARG:HD2	6:I:51:VAL:CB	2.51	0.40
1:A:684:ARG:HG2	1:A:995:CYS:SG	2.62	0.40
1:A:1061:LEU:O	1:A:1071:ILE:O	2.39	0.40
2:B:450:ASP:HA	2:B:861:ARG:HD3	2.02	0.40
3:C:453:LEU:O	3:C:456:VAL:HB	2.21	0.40
3:C:634:GLN:O	3:C:637:PRO:HD3	2.21	0.40
3:C:682:GLN:HE22	3:C:748:GLN:HB3	1.85	0.40
4:D:83:GLN:N	6:I:54:SER:CB	2.83	0.40
4:E:155:PRO:O	4:E:268:ARG:HA	2.21	0.40
4:E:335:ALA:CB	6:U:56:ALA:N	2.63	0.40
5:F:60:ALA:H	5:F:66:GLN:NE2	2.19	0.40
5:G:145:ARG:HA	5:G:150:ALA:HA	2.04	0.40
5:H:11:HIS:CE1	5:H:234:ARG:HD3	2.55	0.40
6:I:182:ASN:O	6:I:186:LEU:HD12	2.22	0.40
6:I:533:ASP:CG	6:K:161:LYS:CD	2.65	0.40
6:J:15:GLY:HA3	6:J:222:ASN:CG	2.46	0.40
6:J:287:PRO:HB2	6:J:288:SER:H	1.66	0.40
6:J:379:SER:O	6:J:381:PRO:HD3	2.21	0.40
6:K:309:GLU:OE2	6:K:337:ARG:HA	2.21	0.40
5:L:66:GLN:HA	5:L:69:HIS:HD2	1.85	0.40
5:N:60:ALA:H	5:N:66:GLN:NE2	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:11:TYR:OH	6:O:209:ASN:HA	2.21	0.40
6:P:295:ARG:NH1	6:Q:354:SER:CB	2.83	0.40
6:Q:506:ALA:O	6:Q:510:VAL:HG23	2.22	0.40
6:Q:517:LEU:O	6:Q:520:VAL:HB	2.20	0.40
5:R:44:GLY:C	6:W:400:ALA:HB2	2.24	0.40
5:S:182:HIS:C	5:S:184:LYS:H	2.30	0.40
5:T:104:LEU:HB2	5:T:149:GLN:OE1	2.21	0.40
6:U:122:THR:HG23	6:V:90:ASN:HB2	2.01	0.40
6:U:235:LEU:HD22	6:W:42:ASN:ND2	2.00	0.40
6:U:546:GLN:HE22	6:U:596:MET:HE2	1.86	0.40
6:V:28:SER:CB	6:W:606:THR:CG2	2.89	0.40
6:V:195:PRO:HG3	6:W:562:TYR:HB2	1.93	0.40
6:V:459:LEU:HD21	6:W:412:ARG:NH2	2.16	0.40
6:W:42:ASN:O	6:W:43:PRO:C	2.65	0.40
6:W:540:VAL:HG21	6:W:566:TRP:CE2	2.56	0.40
6:X:564:LEU:HA	6:X:567:ARG:HH11	1.86	0.40
5:Y:60:ALA:H	5:Y:66:GLN:NE2	2.19	0.40
1:A:238:HIS:HE2	1:A:289:TYR:HE2	1.69	0.40
1:A:430:HIS:O	1:A:800:PHE:HB2	2.21	0.40
2:B:429:ASN:HD21	3:C:611:PRO:HD2	1.87	0.40
2:B:883:ARG:HB3	2:B:886:ASP:OD2	2.22	0.40
2:B:940:GLN:HB3	2:B:944:ASN:HB3	2.03	0.40
2:B:951:PRO:HG3	4:D:98:SER:CA	2.51	0.40
3:C:617:HIS:HD2	4:D:168:ALA:HB1	1.86	0.40
3:C:938:TYR:O	3:C:946:VAL:HG22	2.20	0.40
4:D:274:TRP:CD2	4:D:275:GLN:N	2.90	0.40
4:E:72:LEU:HD22	4:E:145:MET:HE2	2.03	0.40
4:E:277:GLN:OE1	4:E:279:VAL:HB	2.21	0.40
6:I:231:GLN:NE2	6:I:231:GLN:HA	2.36	0.40
6:I:379:SER:O	6:I:381:PRO:HD3	2.22	0.40
6:J:66:ASP:HB3	6:K:232:ALA:HB1	1.80	0.40
6:K:382:ILE:HA	6:K:385:VAL:HG23	2.03	0.40
5:L:5:MET:HE1	6:P:494:THR:OG1	2.11	0.40
5:M:26:THR:CB	5:M:38:ALA:HA	2.49	0.40
5:N:11:HIS:CE1	5:N:234:ARG:HD3	2.57	0.40
6:O:295:ARG:HH12	6:P:354:SER:HB2	1.86	0.40
6:O:560:PRO:C	6:O:562:TYR:H	2.30	0.40
6:P:374:VAL:HG22	6:P:396:VAL:HA	2.03	0.40
6:P:428:ARG:HH22	6:P:480:VAL:HG11	1.86	0.40
6:P:515:ASN:ND2	6:P:580:PRO:HG2	2.37	0.40
5:S:48:ILE:HG12	5:S:55:THR:HG22	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:74:VAL:HG23	6:U:135:VAL:O	2.20	0.40
6:U:168:THR:C	6:V:537:SER:HB2	2.45	0.40
6:U:170:LEU:HD21	6:V:545:VAL:CG2	2.51	0.40
6:U:545:VAL:CG2	6:W:641:ILE:CD1	2.75	0.40
6:V:36:LEU:C	6:W:253:VAL:CG1	2.94	0.40
6:W:560:PRO:C	6:W:562:TYR:H	2.30	0.40
6:X:276:ALA:HB3	6:X:486:PRO:HD2	2.02	0.40
6:X:304:ALA:HB3	6:X:307:ILE:O	2.22	0.40
5:Y:104:LEU:HB2	5:Y:149:GLN:OE1	2.22	0.40
1:A:1011:SER:HA	1:A:1014:ASN:OD1	2.22	0.40
1:A:1238:ARG:HG2	1:A:1288:THR:HA	2.02	0.40
2:B:366:ASP:OD2	2:B:367:ARG:HG3	2.21	0.40
2:B:497:ILE:HD13	2:B:511:ILE:HG23	2.03	0.40
3:C:540:LEU:HD11	3:C:804:HIS:NE2	2.36	0.40
4:D:372:ALA:HA	4:D:375:VAL:HG12	2.03	0.40
4:D:392:ALA:HB1	6:P:49:ARG:HG3	2.04	0.40
5:F:105:ASP:HB2	5:F:111:VAL:O	2.21	0.40
6:I:84:LYS:O	6:I:87:PHE:HB2	2.21	0.40
6:I:588:ILE:O	6:I:589:PRO:C	2.64	0.40
6:J:295:ARG:NH1	6:K:419:MET:CG	2.77	0.40
6:J:440:LEU:HG	6:J:441:GLY:H	1.82	0.40
6:J:537:SER:HB3	6:J:566:TRP:CH2	2.56	0.40
6:J:635:GLN:HA	6:J:638:PHE:CD2	2.57	0.40
6:J:641:ILE:CG1	6:K:545:VAL:CB	2.93	0.40
6:K:46:LYS:NZ	6:K:63:ILE:HB	2.37	0.40
6:K:286:THR:HG22	6:K:287:PRO:O	2.22	0.40
5:L:182:HIS:HA	5:L:184:LYS:HZ2	1.86	0.40
5:M:11:HIS:CE1	5:M:234:ARG:HD3	2.56	0.40
5:M:152:HIS:HD2	5:M:176:LEU:HD12	1.86	0.40
5:N:26:THR:CB	5:N:38:ALA:HA	2.50	0.40
5:N:66:GLN:HA	5:N:69:HIS:HD2	1.86	0.40
6:O:49:ARG:HG2	6:O:64:VAL:HG12	2.04	0.40
6:O:412:ARG:HE	6:Q:459:LEU:CA	2.22	0.40
6:O:578:SER:HA	6:P:471:LEU:HD11	2.00	0.40
6:P:517:LEU:O	6:P:520:VAL:HB	2.20	0.40
6:Q:91:MET:HB2	6:Q:214:ARG:HH11	1.85	0.40
6:Q:231:GLN:NE2	6:Q:231:GLN:HA	2.36	0.40
6:Q:286:THR:HG22	6:Q:287:PRO:O	2.21	0.40
6:Q:365:ASP:HB3	6:Q:445:ILE:HD13	2.04	0.40
5:R:104:LEU:HB2	5:R:149:GLN:OE1	2.22	0.40
5:R:125:ILE:HA	5:R:197:VAL:HG11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:11:HIS:CE1	5:S:234:ARG:HD3	2.57	0.40
5:S:180:HIS:CD2	5:S:181:PRO:HD2	2.56	0.40
6:U:182:ASN:O	6:U:186:LEU:HD12	2.21	0.40
6:U:295:ARG:HD2	6:U:297:ALA:HB3	2.03	0.40
6:V:459:LEU:HD22	6:W:409:ILE:CG2	2.39	0.40
6:W:635:GLN:HA	6:W:638:PHE:CD2	2.56	0.40
6:W:645:TRP:HA	6:W:646:PRO:HD2	1.88	0.40
6:X:11:TYR:OH	6:X:209:ASN:HA	2.21	0.40
6:X:494:THR:HA	6:X:586:VAL:HG12	2.02	0.40
6:X:506:ALA:O	6:X:510:VAL:HG23	2.22	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	1297/1299 (100%)	974 (75%)	214 (16%)	109 (8%)	0 9
2	B	1025/1027 (100%)	842 (82%)	136 (13%)	47 (5%)	2 17
3	C	1194/1196 (100%)	904 (76%)	201 (17%)	89 (8%)	1 10
4	D	410/412 (100%)	317 (77%)	54 (13%)	39 (10%)	0 8
4	E	410/412 (100%)	307 (75%)	75 (18%)	28 (7%)	1 12
5	F	274/276 (99%)	167 (61%)	66 (24%)	41 (15%)	0 3
5	G	274/276 (99%)	170 (62%)	61 (22%)	43 (16%)	0 3
5	H	274/276 (99%)	170 (62%)	62 (23%)	42 (15%)	0 3
5	L	274/276 (99%)	168 (61%)	62 (23%)	44 (16%)	0 3
5	M	274/276 (99%)	170 (62%)	62 (23%)	42 (15%)	0 3
5	N	274/276 (99%)	170 (62%)	62 (23%)	42 (15%)	0 3
5	R	274/276 (99%)	170 (62%)	61 (22%)	43 (16%)	0 3

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	S	274/276 (99%)	170 (62%)	61 (22%)	43 (16%)	0	3
5	T	274/276 (99%)	169 (62%)	62 (23%)	43 (16%)	0	3
5	Y	274/276 (99%)	169 (62%)	62 (23%)	43 (16%)	0	3
6	I	637/639 (100%)	477 (75%)	105 (16%)	55 (9%)	0	9
6	J	637/639 (100%)	476 (75%)	106 (17%)	55 (9%)	0	9
6	K	637/639 (100%)	479 (75%)	102 (16%)	56 (9%)	0	9
6	O	637/639 (100%)	478 (75%)	102 (16%)	57 (9%)	0	9
6	P	637/639 (100%)	476 (75%)	103 (16%)	58 (9%)	0	9
6	Q	637/639 (100%)	481 (76%)	102 (16%)	54 (8%)	0	9
6	U	637/639 (100%)	477 (75%)	105 (16%)	55 (9%)	0	9
6	V	637/639 (100%)	479 (75%)	100 (16%)	58 (9%)	0	9
6	W	637/639 (100%)	482 (76%)	99 (16%)	56 (9%)	0	9
6	X	637/639 (100%)	482 (76%)	99 (16%)	56 (9%)	0	9
All	All	13446/13496 (100%)	9824 (73%)	2324 (17%)	1298 (10%)	1	8

All (1298) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	39	LEU
1	A	40	HIS
1	A	69	SER
1	A	76	GLU
1	A	153	LYS
1	A	154	PHE
1	A	174	GLY
1	A	181	TYR
1	A	231	ASP
1	A	234	THR
1	A	295	PHE
1	A	321	GLU
1	A	358	LEU
1	A	366	VAL
1	A	374	ALA
1	A	406	ASN
1	A	524	ALA
1	A	741	PRO
1	A	826	PRO

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Mol	Chain	Res	Type
1	A	869	PRO
1	A	879	TYR
1	A	883	ALA
1	A	886	ASN
1	A	934	ASN
1	A	954	HIS
1	A	990	THR
1	A	1030	THR
1	A	1044	LEU
1	A	1170	ASP
1	A	1219	ILE
1	A	1264	PRO
2	B	189	ASN
2	B	220	ILE
2	B	334	GLU
2	B	595	GLN
2	B	796	ALA
2	B	1000	ALA
2	B	1040	ASP
2	B	1179	VAL
3	C	62	ALA
3	C	98	ALA
3	C	113	ASN
3	C	120	ASN
3	C	148	LEU
3	C	213	ALA
3	C	218	GLU
3	C	287	GLN
3	C	349	VAL
3	C	351	PRO
3	C	378	GLY
3	C	509	SER
3	C	522	GLY
3	C	595	GLN
3	C	795	ASP
3	C	796	ALA
3	C	797	ALA
3	C	798	VAL
3	C	993	TRP
3	C	1016	ARG
3	C	1022	PRO
3	C	1149	THR

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Mol	Chain	Res	Type
4	D	48	THR
4	D	78	PRO
4	D	105	ALA
4	D	164	ASP
4	D	242	ASN
4	D	300	ILE
4	D	302	GLU
4	D	350	ALA
4	E	4	ARG
4	E	36	PRO
4	E	83	GLN
4	E	88	GLN
4	E	97	LEU
4	E	98	SER
4	E	155	PRO
4	E	237	ALA
4	E	313	ALA
4	E	378	PRO
4	E	379	ILE
4	E	398	GLY
5	F	118	THR
5	F	124	ASP
5	F	207	VAL
5	F	244	ASN
5	F	247	PHE
5	F	249	CYS
5	F	264	GLN
5	G	118	THR
5	G	207	VAL
5	G	244	ASN
5	G	247	PHE
5	G	249	CYS
5	G	264	GLN
5	H	118	THR
5	H	124	ASP
5	H	207	VAL
5	H	244	ASN
5	H	247	PHE
5	H	249	CYS
5	H	264	GLN
6	I	28	SER
6	I	43	PRO

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Mol	Chain	Res	Type
6	I	221	GLY
6	I	236	GLY
6	I	237	GLU
6	I	271	LEU
6	I	273	LEU
6	I	296	PRO
6	I	345	ILE
6	I	361	ASP
6	I	382	ILE
6	I	425	THR
6	I	434	ILE
6	I	530	ARG
6	J	28	SER
6	J	43	PRO
6	J	221	GLY
6	J	236	GLY
6	J	237	GLU
6	J	271	LEU
6	J	273	LEU
6	J	296	PRO
6	J	345	ILE
6	J	361	ASP
6	J	382	ILE
6	J	425	THR
6	J	434	ILE
6	J	529	SER
6	J	530	ARG
6	K	28	SER
6	K	43	PRO
6	K	221	GLY
6	K	233	HIS
6	K	236	GLY
6	K	237	GLU
6	K	271	LEU
6	K	273	LEU
6	K	296	PRO
6	K	345	ILE
6	K	361	ASP
6	K	382	ILE
6	K	415	PRO
6	K	425	THR
6	K	434	ILE

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Mol	Chain	Res	Type
6	K	529	SER
6	K	530	ARG
5	L	118	THR
5	L	207	VAL
5	L	244	ASN
5	L	247	PHE
5	L	249	CYS
5	L	264	GLN
5	M	118	THR
5	M	124	ASP
5	M	207	VAL
5	M	244	ASN
5	M	247	PHE
5	M	249	CYS
5	M	264	GLN
5	N	118	THR
5	N	124	ASP
5	N	207	VAL
5	N	244	ASN
5	N	247	PHE
5	N	249	CYS
5	N	264	GLN
6	O	28	SER
6	O	43	PRO
6	O	221	GLY
6	O	236	GLY
6	O	237	GLU
6	O	271	LEU
6	O	273	LEU
6	O	296	PRO
6	O	345	ILE
6	O	361	ASP
6	O	382	ILE
6	O	425	THR
6	O	434	ILE
6	O	530	ARG
6	P	28	SER
6	P	43	PRO
6	P	54	SER
6	P	221	GLY
6	P	236	GLY
6	P	237	GLU

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Mol	Chain	Res	Type
6	P	271	LEU
6	P	273	LEU
6	P	296	PRO
6	P	345	ILE
6	P	361	ASP
6	P	382	ILE
6	P	415	PRO
6	P	425	THR
6	P	434	ILE
6	P	529	SER
6	P	530	ARG
6	Q	28	SER
6	Q	43	PRO
6	Q	221	GLY
6	Q	236	GLY
6	Q	237	GLU
6	Q	271	LEU
6	Q	273	LEU
6	Q	296	PRO
6	Q	345	ILE
6	Q	361	ASP
6	Q	382	ILE
6	Q	425	THR
6	Q	434	ILE
6	Q	529	SER
6	Q	530	ARG
5	R	118	THR
5	R	124	ASP
5	R	207	VAL
5	R	244	ASN
5	R	247	PHE
5	R	249	CYS
5	R	264	GLN
5	S	118	THR
5	S	124	ASP
5	S	207	VAL
5	S	244	ASN
5	S	247	PHE
5	S	249	CYS
5	S	264	GLN
5	T	118	THR
5	T	124	ASP

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Mol	Chain	Res	Type
5	T	207	VAL
5	T	244	ASN
5	T	247	PHE
5	T	249	CYS
5	T	264	GLN
6	U	28	SER
6	U	43	PRO
6	U	221	GLY
6	U	236	GLY
6	U	237	GLU
6	U	271	LEU
6	U	273	LEU
6	U	296	PRO
6	U	345	ILE
6	U	361	ASP
6	U	382	ILE
6	U	425	THR
6	U	434	ILE
6	U	530	ARG
6	V	28	SER
6	V	43	PRO
6	V	221	GLY
6	V	233	HIS
6	V	236	GLY
6	V	237	GLU
6	V	271	LEU
6	V	273	LEU
6	V	296	PRO
6	V	345	ILE
6	V	361	ASP
6	V	382	ILE
6	V	425	THR
6	V	434	ILE
6	V	529	SER
6	V	530	ARG
6	W	28	SER
6	W	43	PRO
6	W	221	GLY
6	W	236	GLY
6	W	237	GLU
6	W	271	LEU
6	W	273	LEU

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Mol	Chain	Res	Type
6	W	296	PRO
6	W	345	ILE
6	W	361	ASP
6	W	382	ILE
6	W	425	THR
6	W	434	ILE
6	W	529	SER
6	W	530	ARG
6	X	43	PRO
6	X	221	GLY
6	X	236	GLY
6	X	237	GLU
6	X	271	LEU
6	X	273	LEU
6	X	296	PRO
6	X	345	ILE
6	X	361	ASP
6	X	382	ILE
6	X	425	THR
6	X	434	ILE
5	Y	118	THR
5	Y	124	ASP
5	Y	207	VAL
5	Y	244	ASN
5	Y	247	PHE
5	Y	249	CYS
5	Y	264	GLN
1	A	65	LEU
1	A	66	ASN
1	A	163	ASN
1	A	173	ALA
1	A	365	PHE
1	A	379	VAL
1	A	460	ALA
1	A	787	HIS
1	A	825	ASN
1	A	828	LEU
1	A	871	LEU
1	A	884	PHE
1	A	983	ALA
1	A	1043	PRO
1	A	1062	SER

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Mol	Chain	Res	Type
1	A	1068	VAL
1	A	1079	ILE
1	A	1142	ARG
1	A	1276	LEU
1	A	1298	ILE
2	B	214	HIS
2	B	285	ASN
2	B	426	ASN
2	B	464	SER
2	B	491	THR
2	B	524	ASP
2	B	554	SER
2	B	667	ASN
2	B	732	VAL
2	B	986	GLN
2	B	1022	PRO
2	B	1041	ILE
2	B	1128	ILE
2	B	1151	ALA
3	C	122	CYS
3	C	182	TYR
3	C	189	ASN
3	C	201	CYS
3	C	255	GLU
3	C	269	SER
3	C	374	ALA
3	C	505	THR
3	C	506	GLN
3	C	510	PRO
3	C	619	GLY
3	C	715	VAL
3	C	850	MET
3	C	922	GLY
3	C	923	LEU
3	C	1034	ASP
3	C	1056	VAL
3	C	1159	GLY
3	C	1164	VAL
4	D	47	SER
4	D	114	VAL
4	D	238	LYS
4	D	273	HIS

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Mol	Chain	Res	Type
4	D	299	LEU
4	D	380	ALA
4	D	396	GLN
4	E	82	GLY
4	E	106	ILE
4	E	120	LEU
4	E	168	ALA
5	F	27	ARG
5	F	37	HIS
5	F	42	THR
5	F	53	LEU
5	F	54	THR
5	F	99	VAL
5	F	125	ILE
5	F	150	ALA
5	F	155	VAL
5	F	158	LEU
5	F	160	ILE
5	F	165	PHE
5	F	184	LYS
5	F	229	ASP
5	F	239	GLY
5	F	250	HIS
5	F	265	ILE
5	G	27	ARG
5	G	37	HIS
5	G	42	THR
5	G	47	THR
5	G	53	LEU
5	G	54	THR
5	G	93	LEU
5	G	99	VAL
5	G	124	ASP
5	G	125	ILE
5	G	150	ALA
5	G	158	LEU
5	G	160	ILE
5	G	165	PHE
5	G	184	LYS
5	G	229	ASP
5	G	239	GLY
5	G	250	HIS

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Mol	Chain	Res	Type
5	G	265	ILE
5	H	27	ARG
5	H	37	HIS
5	H	42	THR
5	H	47	THR
5	H	54	THR
5	H	93	LEU
5	H	99	VAL
5	H	125	ILE
5	H	150	ALA
5	H	158	LEU
5	H	160	ILE
5	H	165	PHE
5	H	184	LYS
5	H	229	ASP
5	H	239	GLY
5	H	250	HIS
5	H	265	ILE
6	I	70	GLN
6	I	104	GLY
6	I	124	GLY
6	I	233	HIS
6	I	250	GLY
6	I	287	PRO
6	I	415	PRO
6	I	443	PHE
6	I	506	ALA
6	I	534	SER
6	I	561	ASP
6	I	613	LEU
6	J	70	GLN
6	J	104	GLY
6	J	124	GLY
6	J	233	HIS
6	J	250	GLY
6	J	287	PRO
6	J	406	ASN
6	J	415	PRO
6	J	443	PHE
6	J	506	ALA
6	J	534	SER
6	J	561	ASP

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Mol	Chain	Res	Type
6	J	613	LEU
6	K	70	GLN
6	K	104	GLY
6	K	124	GLY
6	K	250	GLY
6	K	287	PRO
6	K	443	PHE
6	K	506	ALA
6	K	534	SER
6	K	561	ASP
6	K	613	LEU
5	L	27	ARG
5	L	37	HIS
5	L	42	THR
5	L	47	THR
5	L	53	LEU
5	L	54	THR
5	L	93	LEU
5	L	99	VAL
5	L	124	ASP
5	L	125	ILE
5	L	150	ALA
5	L	158	LEU
5	L	160	ILE
5	L	165	PHE
5	L	184	LYS
5	L	229	ASP
5	L	239	GLY
5	L	250	HIS
5	L	265	ILE
5	M	27	ARG
5	M	37	HIS
5	M	42	THR
5	M	47	THR
5	M	53	LEU
5	M	54	THR
5	M	93	LEU
5	M	99	VAL
5	M	125	ILE
5	M	150	ALA
5	M	158	LEU
5	M	160	ILE

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Mol	Chain	Res	Type
5	M	165	PHE
5	M	184	LYS
5	M	229	ASP
5	M	239	GLY
5	M	250	HIS
5	M	265	ILE
5	N	27	ARG
5	N	37	HIS
5	N	42	THR
5	N	47	THR
5	N	54	THR
5	N	93	LEU
5	N	99	VAL
5	N	125	ILE
5	N	150	ALA
5	N	155	VAL
5	N	158	LEU
5	N	160	ILE
5	N	165	PHE
5	N	184	LYS
5	N	229	ASP
5	N	239	GLY
5	N	250	HIS
5	N	265	ILE
6	O	70	GLN
6	O	104	GLY
6	O	124	GLY
6	O	233	HIS
6	O	250	GLY
6	O	287	PRO
6	O	314	SER
6	O	406	ASN
6	O	415	PRO
6	O	443	PHE
6	O	506	ALA
6	O	529	SER
6	O	534	SER
6	O	561	ASP
6	O	613	LEU
6	P	56	ALA
6	P	70	GLN
6	P	104	GLY

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Mol	Chain	Res	Type
6	P	124	GLY
6	P	233	HIS
6	P	250	GLY
6	P	287	PRO
6	P	314	SER
6	P	406	ASN
6	P	443	PHE
6	P	506	ALA
6	P	534	SER
6	P	561	ASP
6	P	613	LEU
6	Q	70	GLN
6	Q	104	GLY
6	Q	124	GLY
6	Q	233	HIS
6	Q	250	GLY
6	Q	287	PRO
6	Q	415	PRO
6	Q	443	PHE
6	Q	506	ALA
6	Q	534	SER
6	Q	561	ASP
6	Q	613	LEU
5	R	27	ARG
5	R	37	HIS
5	R	42	THR
5	R	47	THR
5	R	53	LEU
5	R	54	THR
5	R	93	LEU
5	R	99	VAL
5	R	125	ILE
5	R	150	ALA
5	R	158	LEU
5	R	160	ILE
5	R	165	PHE
5	R	184	LYS
5	R	229	ASP
5	R	239	GLY
5	R	250	HIS
5	R	265	ILE
5	S	27	ARG

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Mol	Chain	Res	Type
5	S	37	HIS
5	S	42	THR
5	S	47	THR
5	S	53	LEU
5	S	54	THR
5	S	93	LEU
5	S	99	VAL
5	S	125	ILE
5	S	150	ALA
5	S	158	LEU
5	S	160	ILE
5	S	165	PHE
5	S	184	LYS
5	S	229	ASP
5	S	239	GLY
5	S	250	HIS
5	S	265	ILE
5	T	27	ARG
5	T	37	HIS
5	T	42	THR
5	T	47	THR
5	T	53	LEU
5	T	54	THR
5	T	93	LEU
5	T	99	VAL
5	T	125	ILE
5	T	150	ALA
5	T	155	VAL
5	T	158	LEU
5	T	160	ILE
5	T	165	PHE
5	T	184	LYS
5	T	229	ASP
5	T	239	GLY
5	T	250	HIS
5	T	265	ILE
6	U	70	GLN
6	U	104	GLY
6	U	124	GLY
6	U	233	HIS
6	U	250	GLY
6	U	287	PRO

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Mol	Chain	Res	Type
6	U	406	ASN
6	U	415	PRO
6	U	443	PHE
6	U	506	ALA
6	U	529	SER
6	U	534	SER
6	U	561	ASP
6	U	613	LEU
6	V	70	GLN
6	V	104	GLY
6	V	124	GLY
6	V	250	GLY
6	V	287	PRO
6	V	415	PRO
6	V	443	PHE
6	V	506	ALA
6	V	534	SER
6	V	561	ASP
6	V	613	LEU
6	W	70	GLN
6	W	104	GLY
6	W	124	GLY
6	W	233	HIS
6	W	250	GLY
6	W	287	PRO
6	W	406	ASN
6	W	415	PRO
6	W	443	PHE
6	W	506	ALA
6	W	534	SER
6	W	561	ASP
6	W	613	LEU
6	X	44	THR
6	X	70	GLN
6	X	104	GLY
6	X	124	GLY
6	X	233	HIS
6	X	250	GLY
6	X	287	PRO
6	X	297	ALA
6	X	415	PRO
6	X	418	ASN

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Mol	Chain	Res	Type
6	X	443	PHE
6	X	506	ALA
6	X	534	SER
6	X	561	ASP
6	X	587	GLY
6	X	613	LEU
5	Y	27	ARG
5	Y	37	HIS
5	Y	47	THR
5	Y	53	LEU
5	Y	54	THR
5	Y	93	LEU
5	Y	99	VAL
5	Y	125	ILE
5	Y	150	ALA
5	Y	155	VAL
5	Y	158	LEU
5	Y	160	ILE
5	Y	165	PHE
5	Y	184	LYS
5	Y	229	ASP
5	Y	239	GLY
5	Y	250	HIS
5	Y	265	ILE
1	A	2	ALA
1	A	200	THR
1	A	262	MET
1	A	293	THR
1	A	462	ASN
1	A	482	PRO
1	A	483	ALA
1	A	569	ALA
1	A	612	ALA
1	A	637	THR
1	A	726	ASN
1	A	864	MET
1	A	960	GLY
1	A	1039	PRO
1	A	1115	LEU
1	A	1152	ASP
2	B	219	LEU
2	B	230	GLN

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Mol	Chain	Res	Type
2	B	577	SER
2	B	668	LEU
2	B	791	ALA
2	B	884	PRO
3	C	33	PRO
3	C	144	ALA
3	C	283	ILE
3	C	284	ASP
3	C	463	SER
3	C	600	ALA
3	C	683	PRO
3	C	717	MET
3	C	724	LEU
3	C	773	ARG
3	C	895	SER
3	C	1025	ASN
3	C	1033	ASP
4	D	14	TYR
4	D	29	LEU
4	D	38	THR
4	D	86	SER
4	D	88	GLN
4	D	100	LEU
4	D	113	ALA
4	D	298	ALA
4	D	313	ALA
4	D	382	GLY
4	D	389	PHE
4	D	392	ALA
4	E	114	VAL
4	E	307	ALA
5	F	47	THR
5	F	88	LYS
5	F	93	LEU
5	F	106	VAL
5	F	138	SER
5	F	153	ASP
5	F	204	ALA
5	G	88	LYS
5	G	91	THR
5	G	106	VAL
5	G	119	ILE

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Mol	Chain	Res	Type
5	G	138	SER
5	G	153	ASP
5	G	155	VAL
5	G	204	ALA
5	H	53	LEU
5	H	88	LYS
5	H	91	THR
5	H	106	VAL
5	H	138	SER
5	H	153	ASP
5	H	155	VAL
5	H	204	ALA
6	I	44	THR
6	I	279	PRO
6	I	314	SER
6	I	315	LEU
6	I	392	THR
6	I	406	ASN
6	I	426	PHE
6	I	473	GLU
6	I	529	SER
6	I	563	PRO
6	J	44	THR
6	J	112	THR
6	J	234	PRO
6	J	247	SER
6	J	279	PRO
6	J	297	ALA
6	J	314	SER
6	J	315	LEU
6	J	392	THR
6	J	426	PHE
6	J	457	PRO
6	J	473	GLU
6	J	563	PRO
6	K	44	THR
6	K	112	THR
6	K	234	PRO
6	K	279	PRO
6	K	314	SER
6	K	315	LEU
6	K	406	ASN

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Mol	Chain	Res	Type
6	K	426	PHE
6	K	457	PRO
6	K	473	GLU
6	K	563	PRO
5	L	88	LYS
5	L	91	THR
5	L	106	VAL
5	L	138	SER
5	L	153	ASP
5	L	155	VAL
5	L	204	ALA
5	M	88	LYS
5	M	91	THR
5	M	106	VAL
5	M	119	ILE
5	M	138	SER
5	M	153	ASP
5	M	155	VAL
5	M	204	ALA
5	N	53	LEU
5	N	88	LYS
5	N	91	THR
5	N	106	VAL
5	N	119	ILE
5	N	138	SER
5	N	153	ASP
5	N	204	ALA
5	N	230	GLY
6	O	44	THR
6	O	234	PRO
6	O	279	PRO
6	O	315	LEU
6	O	473	GLU
6	O	563	PRO
6	P	44	THR
6	P	234	PRO
6	P	282	VAL
6	P	297	ALA
6	P	315	LEU
6	P	426	PHE
6	P	457	PRO
6	P	473	GLU

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Mol	Chain	Res	Type
6	P	563	PRO
6	Q	44	THR
6	Q	112	THR
6	Q	234	PRO
6	Q	279	PRO
6	Q	282	VAL
6	Q	297	ALA
6	Q	314	SER
6	Q	315	LEU
6	Q	392	THR
6	Q	406	ASN
6	Q	457	PRO
6	Q	473	GLU
6	Q	563	PRO
5	R	88	LYS
5	R	91	THR
5	R	106	VAL
5	R	119	ILE
5	R	138	SER
5	R	153	ASP
5	R	155	VAL
5	R	204	ALA
5	S	88	LYS
5	S	91	THR
5	S	106	VAL
5	S	138	SER
5	S	153	ASP
5	S	155	VAL
5	S	204	ALA
5	T	88	LYS
5	T	91	THR
5	T	106	VAL
5	T	138	SER
5	T	153	ASP
5	T	204	ALA
6	U	44	THR
6	U	234	PRO
6	U	279	PRO
6	U	314	SER
6	U	315	LEU
6	U	473	GLU
6	U	563	PRO

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Mol	Chain	Res	Type
6	V	44	THR
6	V	234	PRO
6	V	297	ALA
6	V	314	SER
6	V	315	LEU
6	V	406	ASN
6	V	426	PHE
6	V	457	PRO
6	V	473	GLU
6	V	563	PRO
6	W	44	THR
6	W	234	PRO
6	W	279	PRO
6	W	314	SER
6	W	315	LEU
6	W	392	THR
6	W	457	PRO
6	W	473	GLU
6	W	563	PRO
6	X	28	SER
6	X	279	PRO
6	X	314	SER
6	X	315	LEU
6	X	392	THR
6	X	406	ASN
6	X	409	ILE
6	X	473	GLU
6	X	528	ALA
6	X	560	PRO
6	X	563	PRO
5	Y	42	THR
5	Y	88	LYS
5	Y	106	VAL
5	Y	119	ILE
5	Y	138	SER
5	Y	153	ASP
5	Y	204	ALA
1	A	44	TYR
1	A	326	ALA
1	A	373	TYR
1	A	467	ARG
1	A	523	SER

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Mol	Chain	Res	Type
1	A	525	HIS
1	A	527	ASN
1	A	572	THR
1	A	717	ASP
1	A	740	VAL
1	A	744	ILE
1	A	961	GLY
1	A	1091	LEU
1	A	1258	MET
1	A	1261	THR
1	A	1291	ALA
2	B	379	GLY
2	B	390	LEU
2	B	551	PRO
2	B	632	ASN
2	B	921	ASP
2	B	1049	SER
2	B	1093	SER
3	C	39	PRO
3	C	128	THR
3	C	152	MET
3	C	339	LEU
3	C	376	LEU
3	C	419	ILE
3	C	538	ASN
3	C	672	SER
3	C	685	PRO
3	C	739	VAL
3	C	809	ALA
3	C	986	GLN
3	C	1049	SER
3	C	1090	PRO
3	C	1093	SER
3	C	1160	GLU
4	E	54	TRP
4	E	74	ALA
5	F	85	VAL
5	F	91	THR
5	F	116	ASP
5	F	119	ILE
5	F	230	GLY
5	G	85	VAL

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Mol	Chain	Res	Type
5	G	116	ASP
5	H	116	ASP
5	H	119	ILE
5	H	230	GLY
6	I	57	THR
6	I	112	THR
6	I	130	PRO
6	I	234	PRO
6	I	282	VAL
6	I	297	ALA
6	I	409	ILE
6	I	457	PRO
6	I	560	PRO
6	J	57	THR
6	J	130	PRO
6	J	409	ILE
6	J	560	PRO
6	J	586	VAL
6	K	57	THR
6	K	130	PRO
6	K	282	VAL
6	K	297	ALA
6	K	392	THR
6	K	409	ILE
6	K	560	PRO
5	L	116	ASP
5	L	119	ILE
5	L	230	GLY
5	M	85	VAL
5	M	116	ASP
5	N	85	VAL
5	N	116	ASP
6	O	57	THR
6	O	112	THR
6	O	130	PRO
6	O	282	VAL
6	O	297	ALA
6	O	392	THR
6	O	426	PHE
6	O	457	PRO
6	O	480	VAL
6	O	560	PRO

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Mol	Chain	Res	Type
6	P	112	THR
6	P	130	PRO
6	P	247	SER
6	P	279	PRO
6	P	392	THR
6	P	417	PHE
6	P	560	PRO
6	Q	57	THR
6	Q	130	PRO
6	Q	409	ILE
6	Q	426	PHE
6	Q	560	PRO
5	R	85	VAL
5	R	116	ASP
5	R	230	GLY
5	S	116	ASP
5	S	119	ILE
5	S	230	GLY
5	T	85	VAL
5	T	116	ASP
5	T	119	ILE
6	U	57	THR
6	U	112	THR
6	U	130	PRO
6	U	282	VAL
6	U	297	ALA
6	U	392	THR
6	U	409	ILE
6	U	457	PRO
6	U	560	PRO
6	V	57	THR
6	V	112	THR
6	V	130	PRO
6	V	247	SER
6	V	279	PRO
6	V	282	VAL
6	V	392	THR
6	V	409	ILE
6	V	560	PRO
6	W	57	THR
6	W	130	PRO
6	W	282	VAL

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Mol	Chain	Res	Type
6	W	297	ALA
6	W	560	PRO
6	W	592	THR
6	X	57	THR
6	X	112	THR
6	X	130	PRO
6	X	234	PRO
6	X	282	VAL
6	X	426	PHE
5	Y	85	VAL
5	Y	91	THR
5	Y	116	ASP
1	A	285	LEU
1	A	395	SER
1	A	547	ILE
1	A	549	ARG
1	A	571	PRO
1	A	797	PHE
1	A	823	THR
1	A	982	PRO
1	A	1007	PRO
1	A	1047	GLN
1	A	1199	ALA
2	B	540	LEU
2	B	1025	ASN
2	B	1126	PRO
3	C	82	PRO
3	C	141	ARG
3	C	323	THR
4	D	84	ILE
4	D	93	ARG
4	D	96	VAL
4	D	104	PRO
4	D	145	MET
4	D	275	GLN
4	D	385	PRO
4	E	164	ASP
4	E	165	PRO
4	E	325	CYS
5	F	275	SER
5	G	230	GLY
5	G	275	SER

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Mol	Chain	Res	Type
5	H	85	VAL
5	H	275	SER
6	I	64	VAL
6	I	404	ALA
6	I	467	THR
6	I	528	ALA
6	I	589	PRO
6	J	64	VAL
6	J	282	VAL
6	J	404	ALA
6	J	480	VAL
6	K	404	ALA
6	K	467	THR
6	K	528	ALA
6	K	589	PRO
5	L	85	VAL
5	L	275	SER
5	M	230	GLY
5	M	275	SER
5	N	275	SER
6	O	54	SER
6	O	64	VAL
6	O	409	ILE
6	O	467	THR
6	O	589	PRO
6	O	592	THR
6	P	57	THR
6	P	64	VAL
6	P	404	ALA
6	P	409	ILE
6	P	467	THR
6	P	586	VAL
6	P	589	PRO
6	Q	404	ALA
6	Q	467	THR
6	Q	480	VAL
6	Q	528	ALA
6	Q	589	PRO
5	R	243	ASN
5	R	275	SER
5	S	85	VAL
5	S	243	ASN

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Mol	Chain	Res	Type
5	S	275	SER
5	T	230	GLY
5	T	275	SER
6	U	54	SER
6	U	404	ALA
6	U	426	PHE
6	U	467	THR
6	U	480	VAL
6	U	589	PRO
6	V	54	SER
6	V	64	VAL
6	V	106	ILE
6	V	404	ALA
6	V	417	PHE
6	V	467	THR
6	V	586	VAL
6	V	589	PRO
6	W	112	THR
6	W	404	ALA
6	W	409	ILE
6	W	426	PHE
6	W	467	THR
6	W	528	ALA
6	W	589	PRO
6	X	404	ALA
6	X	467	THR
6	X	480	VAL
6	X	589	PRO
6	X	592	THR
5	Y	35	PHE
5	Y	230	GLY
5	Y	275	SER
1	A	184	ASP
1	A	367	PRO
1	A	939	GLU
1	A	993	PRO
1	A	1188	PRO
1	A	1241	LEU
2	B	312	ASN
2	B	1089	ASP
3	C	34	PRO
3	C	102	ASP

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Mol	Chain	Res	Type
3	C	121	VAL
3	C	1109	PRO
4	D	94	ASP
4	E	84	ILE
5	G	35	PHE
5	H	23	THR
6	I	54	SER
6	I	106	ILE
6	I	480	VAL
6	J	106	ILE
6	J	467	THR
6	J	528	ALA
6	J	589	PRO
6	K	54	SER
6	K	64	VAL
6	K	106	ILE
6	K	480	VAL
5	L	219	HIS
5	L	243	ASN
5	M	243	ASN
5	N	243	ASN
6	O	404	ALA
6	O	504	ASN
6	O	528	ALA
6	P	106	ILE
6	P	480	VAL
6	Q	64	VAL
6	Q	106	ILE
5	R	35	PHE
5	S	23	THR
5	T	35	PHE
5	T	243	ASN
6	U	64	VAL
6	U	528	ALA
6	V	480	VAL
6	V	592	THR
6	X	54	SER
6	X	64	VAL
6	X	106	ILE
6	X	529	SER
5	Y	243	ASN
1	A	63	PRO

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Mol	Chain	Res	Type
1	A	390	VAL
1	A	1050	ILE
2	B	271	VAL
2	B	520	PRO
2	B	1180	GLY
3	C	151	PRO
3	C	763	VAL
4	D	379	ILE
4	E	163	VAL
6	I	105	PRO
5	L	274	PRO
6	O	106	ILE
5	S	167	LEU
5	T	274	PRO
6	W	64	VAL
6	W	480	VAL
2	B	922	GLY
3	C	277	VAL
3	C	324	ILE
3	C	417	VAL
3	C	1054	VAL
3	C	1122	PRO
4	E	270	ILE
5	F	181	PRO
5	F	274	PRO
5	H	181	PRO
6	J	105	PRO
5	L	172	PRO
5	M	167	LEU
5	N	274	PRO
6	O	105	PRO
6	P	105	PRO
5	R	181	PRO
5	R	274	PRO
5	T	172	PRO
6	U	106	ILE
6	W	106	ILE
5	Y	167	LEU
5	Y	181	PRO
1	A	964	VAL
1	A	1119	PRO
3	C	169	ILE

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Mol	Chain	Res	Type
3	C	1210	VAL
5	F	167	LEU
5	G	181	PRO
5	H	167	LEU
5	H	172	PRO
6	K	105	PRO
5	L	167	LEU
5	M	172	PRO
5	M	181	PRO
5	M	274	PRO
5	N	172	PRO
5	N	181	PRO
6	Q	105	PRO
5	R	167	LEU
5	S	181	PRO
5	S	274	PRO
5	T	167	LEU
5	T	181	PRO
6	V	105	PRO
6	W	435	PRO
6	X	105	PRO
5	Y	274	PRO
1	A	62	TYR
1	A	1159	PRO
1	A	1203	VAL
2	B	336	ARG
2	B	770	PRO
2	B	954	PRO
3	C	690	ALA
4	D	103	VAL
4	D	107	GLN
4	E	110	PRO
4	E	279	VAL
5	F	172	PRO
5	G	129	PRO
5	G	167	LEU
5	G	172	PRO
5	H	274	PRO
5	L	181	PRO
5	N	167	LEU
6	O	107	VAL
6	Q	107	VAL

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Mol	Chain	Res	Type
5	R	172	PRO
5	S	172	PRO
6	U	105	PRO
6	U	107	VAL
6	W	105	PRO
6	X	107	VAL
5	Y	172	PRO
1	A	900	GLY
3	C	800	ILE
3	C	928	ASP
4	D	322	VAL
5	G	274	PRO
6	I	107	VAL
6	K	107	VAL
6	K	222	ASN
5	L	129	PRO
6	P	107	VAL
6	V	107	VAL
6	W	107	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	1092/1092 (100%)	980 (90%)	112 (10%)	7 23
2	B	875/875 (100%)	783 (90%)	92 (10%)	6 22
3	C	1017/1017 (100%)	920 (90%)	97 (10%)	8 26
4	D	326/326 (100%)	284 (87%)	42 (13%)	4 17
4	E	326/326 (100%)	290 (89%)	36 (11%)	6 21
5	F	228/228 (100%)	199 (87%)	29 (13%)	4 17
5	G	228/228 (100%)	199 (87%)	29 (13%)	4 17
5	H	228/228 (100%)	199 (87%)	29 (13%)	4 17
5	L	228/228 (100%)	198 (87%)	30 (13%)	4 16

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
5	M	228/228 (100%)	199 (87%)	29 (13%)	4 17
5	N	228/228 (100%)	199 (87%)	29 (13%)	4 17
5	R	228/228 (100%)	199 (87%)	29 (13%)	4 17
5	S	228/228 (100%)	199 (87%)	29 (13%)	4 17
5	T	228/228 (100%)	199 (87%)	29 (13%)	4 17
5	Y	228/228 (100%)	199 (87%)	29 (13%)	4 17
6	I	528/528 (100%)	480 (91%)	48 (9%)	9 28
6	J	528/528 (100%)	484 (92%)	44 (8%)	10 31
6	K	528/528 (100%)	480 (91%)	48 (9%)	9 28
6	O	528/528 (100%)	481 (91%)	47 (9%)	9 28
6	P	528/528 (100%)	483 (92%)	45 (8%)	10 30
6	Q	528/528 (100%)	480 (91%)	48 (9%)	9 28
6	U	528/528 (100%)	482 (91%)	46 (9%)	9 29
6	V	528/528 (100%)	483 (92%)	45 (8%)	10 30
6	W	528/528 (100%)	480 (91%)	48 (9%)	9 28
6	X	528/528 (100%)	484 (92%)	44 (8%)	10 31
All	All	11196/11196 (100%)	10063 (90%)	1133 (10%)	9 23

All (1133) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	12	LYS
1	A	25	LEU
1	A	26	ARG
1	A	45	ARG
1	A	77	ASN
1	A	78	PRO
1	A	85	THR
1	A	86	GLU
1	A	91	ARG
1	A	106	THR
1	A	113	THR
1	A	127	ASN
1	A	145	ASP
1	A	166	THR
1	A	167	ASP

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Mol	Chain	Res	Type
1	A	189	SER
1	A	204	VAL
1	A	225	THR
1	A	244	THR
1	A	255	ILE
1	A	305	GLN
1	A	330	MET
1	A	332	ASP
1	A	348	GLN
1	A	353	ARG
1	A	363	SER
1	A	369	ILE
1	A	372	PHE
1	A	380	ASN
1	A	384	THR
1	A	399	ARG
1	A	403	GLN
1	A	412	GLN
1	A	418	TYR
1	A	450	THR
1	A	463	ASP
1	A	467	ARG
1	A	480	ARG
1	A	509	VAL
1	A	530	GLU
1	A	547	ILE
1	A	562	SER
1	A	571	PRO
1	A	593	PRO
1	A	596	ASN
1	A	597	ARG
1	A	603	LEU
1	A	625	ARG
1	A	633	ASN
1	A	638	HIS
1	A	648	THR
1	A	669	ARG
1	A	675	GLN
1	A	680	SER
1	A	700	VAL
1	A	722	ASP
1	A	735	LEU

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Mol	Chain	Res	Type
1	A	741	PRO
1	A	746	PHE
1	A	754	PRO
1	A	760	TYR
1	A	777	VAL
1	A	780	LEU
1	A	781	ILE
1	A	790	ARG
1	A	792	THR
1	A	808	THR
1	A	831	LEU
1	A	839	GLU
1	A	846	ILE
1	A	851	GLN
1	A	853	THR
1	A	858	ARG
1	A	876	GLN
1	A	916	GLN
1	A	929	MET
1	A	931	LEU
1	A	936	PRO
1	A	948	GLU
1	A	954	HIS
1	A	967	TYR
1	A	973	LEU
1	A	977	ILE
1	A	986	LEU
1	A	992	SER
1	A	1008	LEU
1	A	1013	ILE
1	A	1021	ARG
1	A	1025	ILE
1	A	1029	ASP
1	A	1032	THR
1	A	1035	LEU
1	A	1036	ARG
1	A	1074	THR
1	A	1079	ILE
1	A	1090	ILE
1	A	1136	LEU
1	A	1142	ARG
1	A	1144	LEU

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Mol	Chain	Res	Type
1	A	1151	ASN
1	A	1163	LEU
1	A	1182	SER
1	A	1183	VAL
1	A	1193	HIS
1	A	1211	THR
1	A	1223	ILE
1	A	1224	VAL
1	A	1228	ARG
1	A	1258	MET
1	A	1287	TYR
1	A	1296	TYR
1	A	1299	GLU
2	B	189	ASN
2	B	192	GLU
2	B	194	ILE
2	B	196	GLU
2	B	241	ASN
2	B	266	PRO
2	B	267	THR
2	B	277	VAL
2	B	278	LEU
2	B	287	GLN
2	B	295	SER
2	B	296	ASN
2	B	298	LEU
2	B	316	THR
2	B	329	MET
2	B	334	GLU
2	B	370	ARG
2	B	371	LEU
2	B	376	LEU
2	B	377	ILE
2	B	390	LEU
2	B	410	HIS
2	B	417	VAL
2	B	421	ASN
2	B	428	LEU
2	B	438	PRO
2	B	440	ILE
2	B	461	ASN
2	B	463	SER

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Mol	Chain	Res	Type
2	B	478	THR
2	B	486	LEU
2	B	514	ILE
2	B	520	PRO
2	B	540	LEU
2	B	575	MET
2	B	597	GLU
2	B	598	PRO
2	B	614	GLN
2	B	649	ASN
2	B	655	GLU
2	B	670	ILE
2	B	682	GLN
2	B	689	VAL
2	B	726	ARG
2	B	743	THR
2	B	747	ILE
2	B	748	GLN
2	B	752	PRO
2	B	763	VAL
2	B	765	PRO
2	B	770	PRO
2	B	782	ASN
2	B	784	LEU
2	B	787	ARG
2	B	800	ILE
2	B	826	GLN
2	B	830	ASN
2	B	848	ASN
2	B	873	GLN
2	B	875	GLN
2	B	884	PRO
2	B	902	MET
2	B	903	HIS
2	B	915	LEU
2	B	919	LEU
2	B	931	ILE
2	B	935	SER
2	B	938	TYR
2	B	939	LEU
2	B	941	TYR
2	B	958	HIS

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Mol	Chain	Res	Type
2	B	959	ARG
2	B	976	ASN
2	B	979	ARG
2	B	983	TYR
2	B	993	TRP
2	B	999	VAL
2	B	1002	PRO
2	B	1010	ASN
2	B	1023	ARG
2	B	1033	ASP
2	B	1037	VAL
2	B	1071	ARG
2	B	1072	THR
2	B	1076	VAL
2	B	1084	THR
2	B	1126	PRO
2	B	1147	PHE
2	B	1169	TRP
2	B	1178	ARG
2	B	1189	THR
2	B	1194	LEU
3	C	48	GLN
3	C	123	ASN
3	C	125	ARG
3	C	134	GLU
3	C	155	ASN
3	C	168	ARG
3	C	195	ILE
3	C	197	ASP
3	C	215	LEU
3	C	217	LYS
3	C	226	MET
3	C	227	GLN
3	C	241	ASN
3	C	257	ARG
3	C	260	GLU
3	C	277	VAL
3	C	279	SER
3	C	280	ARG
3	C	312	ASN
3	C	315	SER
3	C	334	GLU

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Mol	Chain	Res	Type
3	C	345	PRO
3	C	358	GLN
3	C	368	ILE
3	C	373	ARG
3	C	427	LEU
3	C	431	THR
3	C	453	LEU
3	C	472	LEU
3	C	482	SER
3	C	486	LEU
3	C	487	VAL
3	C	491	THR
3	C	506	GLN
3	C	508	ILE
3	C	513	GLU
3	C	514	ILE
3	C	521	MET
3	C	535	TRP
3	C	554	SER
3	C	559	HIS
3	C	580	HIS
3	C	610	THR
3	C	618	PRO
3	C	620	VAL
3	C	630	LEU
3	C	633	PRO
3	C	638	LEU
3	C	646	ILE
3	C	677	TYR
3	C	681	ASN
3	C	682	GLN
3	C	684	LEU
3	C	715	VAL
3	C	726	ARG
3	C	743	THR
3	C	744	PRO
3	C	753	THR
3	C	757	VAL
3	C	758	LEU
3	C	763	VAL
3	C	779	VAL
3	C	780	ILE

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Mol	Chain	Res	Type
3	C	781	THR
3	C	783	VAL
3	C	787	ARG
3	C	871	VAL
3	C	882	PRO
3	C	883	ARG
3	C	902	MET
3	C	909	PHE
3	C	919	LEU
3	C	925	LEU
3	C	929	PRO
3	C	941	TYR
3	C	949	HIS
3	C	955	SER
3	C	958	HIS
3	C	979	ARG
3	C	993	TRP
3	C	1006	ARG
3	C	1016	ARG
3	C	1036	ASN
3	C	1045	TRP
3	C	1051	VAL
3	C	1060	ARG
3	C	1062	TYR
3	C	1068	LYS
3	C	1071	ARG
3	C	1076	VAL
3	C	1094	LEU
3	C	1106	LYS
3	C	1131	ARG
3	C	1161	ASN
3	C	1170	PRO
3	C	1178	ARG
3	C	1181	THR
4	D	5	GLN
4	D	7	PHE
4	D	13	PHE
4	D	16	GLN
4	D	28	GLU
4	D	38	THR
4	D	65	ASN
4	D	75	HIS

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Mol	Chain	Res	Type
4	D	83	GLN
4	D	95	PRO
4	D	104	PRO
4	D	108	PRO
4	D	122	SER
4	D	131	ASN
4	D	132	LEU
4	D	136	TRP
4	D	139	ASN
4	D	161	VAL
4	D	175	MET
4	D	177	TYR
4	D	182	ILE
4	D	218	SER
4	D	225	ARG
4	D	238	LYS
4	D	242	ASN
4	D	249	LYS
4	D	255	ARG
4	D	270	ILE
4	D	279	VAL
4	D	291	THR
4	D	312	VAL
4	D	324	PRO
4	D	327	ASP
4	D	342	ARG
4	D	351	GLN
4	D	366	ILE
4	D	369	HIS
4	D	374	LEU
4	D	375	VAL
4	D	377	ASN
4	D	388	PRO
4	D	399	GLN
4	E	13	PHE
4	E	35	ARG
4	E	36	PRO
4	E	70	THR
4	E	76	LEU
4	E	77	ASN
4	E	83	GLN
4	E	104	PRO

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Mol	Chain	Res	Type
4	E	108	PRO
4	E	114	VAL
4	E	118	VAL
4	E	124	ASN
4	E	127	THR
4	E	129	VAL
4	E	139	ASN
4	E	171	THR
4	E	174	LEU
4	E	196	LEU
4	E	204	MET
4	E	212	SER
4	E	218	SER
4	E	223	LEU
4	E	225	ARG
4	E	235	GLU
4	E	251	ASN
4	E	267	ILE
4	E	277	GLN
4	E	291	THR
4	E	304	THR
4	E	339	LEU
4	E	346	LEU
4	E	354	GLN
4	E	356	ASN
4	E	374	LEU
4	E	378	PRO
4	E	386	ILE
5	F	11	HIS
5	F	21	ARG
5	F	27	ARG
5	F	35	PHE
5	F	37	HIS
5	F	45	ARG
5	F	54	THR
5	F	63	LYS
5	F	98	THR
5	F	102	HIS
5	F	119	ILE
5	F	121	PRO
5	F	124	ASP
5	F	126	VAL

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Mol	Chain	Res	Type
5	F	147	HIS
5	F	160	ILE
5	F	171	HIS
5	F	176	LEU
5	F	178	ASP
5	F	179	THR
5	F	185	VAL
5	F	191	LYS
5	F	197	VAL
5	F	210	THR
5	F	216	ILE
5	F	226	ASN
5	F	243	ASN
5	F	270	LEU
5	F	276	ASP
5	G	11	HIS
5	G	21	ARG
5	G	27	ARG
5	G	35	PHE
5	G	37	HIS
5	G	45	ARG
5	G	54	THR
5	G	63	LYS
5	G	98	THR
5	G	102	HIS
5	G	119	ILE
5	G	121	PRO
5	G	124	ASP
5	G	126	VAL
5	G	147	HIS
5	G	160	ILE
5	G	171	HIS
5	G	176	LEU
5	G	178	ASP
5	G	179	THR
5	G	185	VAL
5	G	191	LYS
5	G	197	VAL
5	G	210	THR
5	G	216	ILE
5	G	226	ASN
5	G	243	ASN

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Mol	Chain	Res	Type
5	G	270	LEU
5	G	276	ASP
5	H	11	HIS
5	H	21	ARG
5	H	27	ARG
5	H	35	PHE
5	H	37	HIS
5	H	45	ARG
5	H	54	THR
5	H	63	LYS
5	H	98	THR
5	H	102	HIS
5	H	119	ILE
5	H	121	PRO
5	H	124	ASP
5	H	126	VAL
5	H	147	HIS
5	H	160	ILE
5	H	171	HIS
5	H	176	LEU
5	H	178	ASP
5	H	179	THR
5	H	185	VAL
5	H	191	LYS
5	H	197	VAL
5	H	210	THR
5	H	216	ILE
5	H	226	ASN
5	H	243	ASN
5	H	270	LEU
5	H	276	ASP
6	I	12	ASN
6	I	13	ILE
6	I	38	PRO
6	I	63	ILE
6	I	91	MET
6	I	113	THR
6	I	133	ASN
6	I	142	ILE
6	I	143	MET
6	I	147	ARG
6	I	148	THR

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Mol	Chain	Res	Type
6	I	154	ARG
6	I	183	TRP
6	I	189	PHE
6	I	205	ASN
6	I	247	SER
6	I	249	VAL
6	I	266	MET
6	I	270	ASP
6	I	296	PRO
6	I	309	GLU
6	I	311	ASN
6	I	313	SER
6	I	317	ARG
6	I	359	PRO
6	I	369	SER
6	I	394	ILE
6	I	411	VAL
6	I	418	ASN
6	I	429	GLU
6	I	431	ILE
6	I	436	TYR
6	I	443	PHE
6	I	471	LEU
6	I	474	THR
6	I	505	ASP
6	I	507	ILE
6	I	537	SER
6	I	554	GLN
6	I	558	THR
6	I	575	MET
6	I	586	VAL
6	I	593	GLN
6	I	613	LEU
6	I	625	ARG
6	I	630	LEU
6	I	645	TRP
6	I	648	LYS
6	J	12	ASN
6	J	13	ILE
6	J	38	PRO
6	J	63	ILE
6	J	91	MET

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Mol	Chain	Res	Type
6	J	113	THR
6	J	133	ASN
6	J	142	ILE
6	J	143	MET
6	J	148	THR
6	J	183	TRP
6	J	189	PHE
6	J	205	ASN
6	J	212	ILE
6	J	249	VAL
6	J	266	MET
6	J	270	ASP
6	J	296	PRO
6	J	309	GLU
6	J	311	ASN
6	J	313	SER
6	J	317	ARG
6	J	359	PRO
6	J	369	SER
6	J	394	ILE
6	J	418	ASN
6	J	429	GLU
6	J	431	ILE
6	J	436	TYR
6	J	443	PHE
6	J	471	LEU
6	J	474	THR
6	J	505	ASP
6	J	507	ILE
6	J	537	SER
6	J	554	GLN
6	J	558	THR
6	J	575	MET
6	J	593	GLN
6	J	613	LEU
6	J	625	ARG
6	J	630	LEU
6	J	645	TRP
6	J	648	LYS
6	K	12	ASN
6	K	13	ILE
6	K	38	PRO

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Mol	Chain	Res	Type
6	K	63	ILE
6	K	91	MET
6	K	113	THR
6	K	133	ASN
6	K	142	ILE
6	K	143	MET
6	K	148	THR
6	K	154	ARG
6	K	183	TRP
6	K	189	PHE
6	K	205	ASN
6	K	212	ILE
6	K	247	SER
6	K	249	VAL
6	K	266	MET
6	K	270	ASP
6	K	296	PRO
6	K	309	GLU
6	K	311	ASN
6	K	313	SER
6	K	317	ARG
6	K	359	PRO
6	K	369	SER
6	K	394	ILE
6	K	411	VAL
6	K	418	ASN
6	K	429	GLU
6	K	431	ILE
6	K	436	TYR
6	K	443	PHE
6	K	471	LEU
6	K	474	THR
6	K	505	ASP
6	K	507	ILE
6	K	537	SER
6	K	554	GLN
6	K	558	THR
6	K	575	MET
6	K	586	VAL
6	K	593	GLN
6	K	613	LEU
6	K	625	ARG

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Mol	Chain	Res	Type
6	K	630	LEU
6	K	645	TRP
6	K	648	LYS
5	L	11	HIS
5	L	21	ARG
5	L	27	ARG
5	L	35	PHE
5	L	37	HIS
5	L	45	ARG
5	L	54	THR
5	L	63	LYS
5	L	98	THR
5	L	102	HIS
5	L	119	ILE
5	L	121	PRO
5	L	124	ASP
5	L	126	VAL
5	L	131	ARG
5	L	147	HIS
5	L	160	ILE
5	L	171	HIS
5	L	176	LEU
5	L	178	ASP
5	L	179	THR
5	L	185	VAL
5	L	191	LYS
5	L	197	VAL
5	L	210	THR
5	L	216	ILE
5	L	226	ASN
5	L	243	ASN
5	L	270	LEU
5	L	276	ASP
5	M	11	HIS
5	M	21	ARG
5	M	27	ARG
5	M	35	PHE
5	M	37	HIS
5	M	45	ARG
5	M	54	THR
5	M	63	LYS
5	M	98	THR

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Mol	Chain	Res	Type
5	M	102	HIS
5	M	119	ILE
5	M	121	PRO
5	M	124	ASP
5	M	126	VAL
5	M	147	HIS
5	M	160	ILE
5	M	171	HIS
5	M	176	LEU
5	M	178	ASP
5	M	179	THR
5	M	185	VAL
5	M	191	LYS
5	M	197	VAL
5	M	210	THR
5	M	216	ILE
5	M	226	ASN
5	M	243	ASN
5	M	270	LEU
5	M	276	ASP
5	N	11	HIS
5	N	21	ARG
5	N	27	ARG
5	N	35	PHE
5	N	37	HIS
5	N	45	ARG
5	N	54	THR
5	N	63	LYS
5	N	98	THR
5	N	102	HIS
5	N	119	ILE
5	N	121	PRO
5	N	124	ASP
5	N	126	VAL
5	N	147	HIS
5	N	160	ILE
5	N	171	HIS
5	N	176	LEU
5	N	178	ASP
5	N	179	THR
5	N	185	VAL
5	N	191	LYS

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Mol	Chain	Res	Type
5	N	197	VAL
5	N	210	THR
5	N	216	ILE
5	N	226	ASN
5	N	243	ASN
5	N	270	LEU
5	N	276	ASP
6	O	12	ASN
6	O	13	ILE
6	O	38	PRO
6	O	63	ILE
6	O	91	MET
6	O	113	THR
6	O	133	ASN
6	O	142	ILE
6	O	143	MET
6	O	148	THR
6	O	154	ARG
6	O	183	TRP
6	O	189	PHE
6	O	205	ASN
6	O	247	SER
6	O	249	VAL
6	O	266	MET
6	O	270	ASP
6	O	296	PRO
6	O	309	GLU
6	O	311	ASN
6	O	313	SER
6	O	317	ARG
6	O	359	PRO
6	O	369	SER
6	O	394	ILE
6	O	411	VAL
6	O	418	ASN
6	O	429	GLU
6	O	431	ILE
6	O	436	TYR
6	O	443	PHE
6	O	471	LEU
6	O	474	THR
6	O	505	ASP

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Mol	Chain	Res	Type
6	O	507	ILE
6	O	537	SER
6	O	554	GLN
6	O	558	THR
6	O	575	MET
6	O	586	VAL
6	O	593	GLN
6	O	613	LEU
6	O	625	ARG
6	O	630	LEU
6	O	645	TRP
6	O	648	LYS
6	P	12	ASN
6	P	13	ILE
6	P	38	PRO
6	P	63	ILE
6	P	91	MET
6	P	113	THR
6	P	133	ASN
6	P	142	ILE
6	P	143	MET
6	P	148	THR
6	P	154	ARG
6	P	183	TRP
6	P	189	PHE
6	P	205	ASN
6	P	247	SER
6	P	249	VAL
6	P	266	MET
6	P	270	ASP
6	P	296	PRO
6	P	309	GLU
6	P	311	ASN
6	P	313	SER
6	P	317	ARG
6	P	359	PRO
6	P	369	SER
6	P	394	ILE
6	P	418	ASN
6	P	429	GLU
6	P	431	ILE
6	P	436	TYR

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Mol	Chain	Res	Type
6	P	443	PHE
6	P	471	LEU
6	P	474	THR
6	P	505	ASP
6	P	507	ILE
6	P	537	SER
6	P	554	GLN
6	P	558	THR
6	P	575	MET
6	P	593	GLN
6	P	613	LEU
6	P	625	ARG
6	P	630	LEU
6	P	645	TRP
6	P	648	LYS
6	Q	12	ASN
6	Q	13	ILE
6	Q	38	PRO
6	Q	63	ILE
6	Q	91	MET
6	Q	113	THR
6	Q	133	ASN
6	Q	142	ILE
6	Q	143	MET
6	Q	148	THR
6	Q	154	ARG
6	Q	183	TRP
6	Q	189	PHE
6	Q	205	ASN
6	Q	247	SER
6	Q	249	VAL
6	Q	266	MET
6	Q	270	ASP
6	Q	296	PRO
6	Q	309	GLU
6	Q	311	ASN
6	Q	313	SER
6	Q	317	ARG
6	Q	359	PRO
6	Q	369	SER
6	Q	394	ILE
6	Q	411	VAL

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Mol	Chain	Res	Type
6	Q	418	ASN
6	Q	429	GLU
6	Q	431	ILE
6	Q	436	TYR
6	Q	443	PHE
6	Q	470	LEU
6	Q	471	LEU
6	Q	474	THR
6	Q	505	ASP
6	Q	507	ILE
6	Q	537	SER
6	Q	554	GLN
6	Q	558	THR
6	Q	575	MET
6	Q	586	VAL
6	Q	593	GLN
6	Q	613	LEU
6	Q	625	ARG
6	Q	630	LEU
6	Q	645	TRP
6	Q	648	LYS
5	R	11	HIS
5	R	21	ARG
5	R	27	ARG
5	R	35	PHE
5	R	37	HIS
5	R	45	ARG
5	R	54	THR
5	R	63	LYS
5	R	98	THR
5	R	102	HIS
5	R	119	ILE
5	R	121	PRO
5	R	124	ASP
5	R	126	VAL
5	R	147	HIS
5	R	160	ILE
5	R	171	HIS
5	R	176	LEU
5	R	178	ASP
5	R	179	THR
5	R	185	VAL

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Mol	Chain	Res	Type
5	R	191	LYS
5	R	197	VAL
5	R	210	THR
5	R	216	ILE
5	R	226	ASN
5	R	243	ASN
5	R	270	LEU
5	R	276	ASP
5	S	11	HIS
5	S	21	ARG
5	S	27	ARG
5	S	35	PHE
5	S	37	HIS
5	S	45	ARG
5	S	54	THR
5	S	63	LYS
5	S	98	THR
5	S	102	HIS
5	S	119	ILE
5	S	121	PRO
5	S	124	ASP
5	S	126	VAL
5	S	147	HIS
5	S	160	ILE
5	S	171	HIS
5	S	176	LEU
5	S	178	ASP
5	S	179	THR
5	S	185	VAL
5	S	191	LYS
5	S	197	VAL
5	S	210	THR
5	S	216	ILE
5	S	226	ASN
5	S	243	ASN
5	S	270	LEU
5	S	276	ASP
5	T	11	HIS
5	T	21	ARG
5	T	27	ARG
5	T	35	PHE
5	T	37	HIS

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Mol	Chain	Res	Type
5	T	45	ARG
5	T	54	THR
5	T	63	LYS
5	T	98	THR
5	T	102	HIS
5	T	119	ILE
5	T	121	PRO
5	T	124	ASP
5	T	126	VAL
5	T	147	HIS
5	T	160	ILE
5	T	171	HIS
5	T	176	LEU
5	T	178	ASP
5	T	179	THR
5	T	185	VAL
5	T	191	LYS
5	T	197	VAL
5	T	210	THR
5	T	216	ILE
5	T	226	ASN
5	T	243	ASN
5	T	270	LEU
5	T	276	ASP
6	U	12	ASN
6	U	13	ILE
6	U	38	PRO
6	U	63	ILE
6	U	91	MET
6	U	113	THR
6	U	133	ASN
6	U	142	ILE
6	U	143	MET
6	U	148	THR
6	U	154	ARG
6	U	183	TRP
6	U	189	PHE
6	U	205	ASN
6	U	247	SER
6	U	249	VAL
6	U	266	MET
6	U	270	ASP

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Mol	Chain	Res	Type
6	U	296	PRO
6	U	309	GLU
6	U	311	ASN
6	U	313	SER
6	U	317	ARG
6	U	359	PRO
6	U	369	SER
6	U	394	ILE
6	U	411	VAL
6	U	418	ASN
6	U	429	GLU
6	U	431	ILE
6	U	436	TYR
6	U	443	PHE
6	U	474	THR
6	U	505	ASP
6	U	507	ILE
6	U	537	SER
6	U	554	GLN
6	U	558	THR
6	U	575	MET
6	U	586	VAL
6	U	593	GLN
6	U	613	LEU
6	U	625	ARG
6	U	630	LEU
6	U	645	TRP
6	U	648	LYS
6	V	12	ASN
6	V	13	ILE
6	V	38	PRO
6	V	63	ILE
6	V	91	MET
6	V	113	THR
6	V	133	ASN
6	V	142	ILE
6	V	143	MET
6	V	148	THR
6	V	154	ARG
6	V	183	TRP
6	V	189	PHE
6	V	205	ASN

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Mol	Chain	Res	Type
6	V	212	ILE
6	V	247	SER
6	V	249	VAL
6	V	266	MET
6	V	270	ASP
6	V	296	PRO
6	V	309	GLU
6	V	311	ASN
6	V	313	SER
6	V	317	ARG
6	V	359	PRO
6	V	369	SER
6	V	394	ILE
6	V	418	ASN
6	V	431	ILE
6	V	436	TYR
6	V	443	PHE
6	V	471	LEU
6	V	474	THR
6	V	505	ASP
6	V	507	ILE
6	V	537	SER
6	V	554	GLN
6	V	558	THR
6	V	575	MET
6	V	593	GLN
6	V	613	LEU
6	V	625	ARG
6	V	630	LEU
6	V	645	TRP
6	V	648	LYS
6	W	12	ASN
6	W	13	ILE
6	W	38	PRO
6	W	57	THR
6	W	63	ILE
6	W	91	MET
6	W	113	THR
6	W	133	ASN
6	W	142	ILE
6	W	143	MET
6	W	148	THR

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Mol	Chain	Res	Type
6	W	154	ARG
6	W	183	TRP
6	W	189	PHE
6	W	205	ASN
6	W	247	SER
6	W	249	VAL
6	W	266	MET
6	W	270	ASP
6	W	296	PRO
6	W	309	GLU
6	W	311	ASN
6	W	313	SER
6	W	317	ARG
6	W	359	PRO
6	W	369	SER
6	W	394	ILE
6	W	411	VAL
6	W	418	ASN
6	W	431	ILE
6	W	436	TYR
6	W	443	PHE
6	W	470	LEU
6	W	471	LEU
6	W	474	THR
6	W	505	ASP
6	W	507	ILE
6	W	537	SER
6	W	554	GLN
6	W	558	THR
6	W	575	MET
6	W	586	VAL
6	W	593	GLN
6	W	613	LEU
6	W	625	ARG
6	W	630	LEU
6	W	645	TRP
6	W	648	LYS
6	X	12	ASN
6	X	13	ILE
6	X	38	PRO
6	X	63	ILE
6	X	91	MET

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Mol	Chain	Res	Type
6	X	113	THR
6	X	133	ASN
6	X	142	ILE
6	X	143	MET
6	X	148	THR
6	X	183	TRP
6	X	189	PHE
6	X	205	ASN
6	X	212	ILE
6	X	248	GLU
6	X	249	VAL
6	X	266	MET
6	X	270	ASP
6	X	296	PRO
6	X	309	GLU
6	X	311	ASN
6	X	313	SER
6	X	317	ARG
6	X	359	PRO
6	X	369	SER
6	X	394	ILE
6	X	412	ARG
6	X	429	GLU
6	X	431	ILE
6	X	436	TYR
6	X	443	PHE
6	X	474	THR
6	X	494	THR
6	X	505	ASP
6	X	507	ILE
6	X	554	GLN
6	X	558	THR
6	X	575	MET
6	X	593	GLN
6	X	613	LEU
6	X	625	ARG
6	X	630	LEU
6	X	645	TRP
6	X	648	LYS
5	Y	11	HIS
5	Y	21	ARG
5	Y	27	ARG

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Mol	Chain	Res	Type
5	Y	35	PHE
5	Y	37	HIS
5	Y	45	ARG
5	Y	54	THR
5	Y	63	LYS
5	Y	98	THR
5	Y	102	HIS
5	Y	119	ILE
5	Y	121	PRO
5	Y	124	ASP
5	Y	126	VAL
5	Y	147	HIS
5	Y	160	ILE
5	Y	171	HIS
5	Y	176	LEU
5	Y	178	ASP
5	Y	179	THR
5	Y	185	VAL
5	Y	191	LYS
5	Y	197	VAL
5	Y	210	THR
5	Y	216	ILE
5	Y	226	ASN
5	Y	243	ASN
5	Y	270	LEU
5	Y	276	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (322) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	14	ASN
1	A	50	ASN
1	A	60	GLN
1	A	108	ASN
1	A	163	ASN
1	A	309	ASN
1	A	316	GLN
1	A	347	GLN
1	A	406	ASN
1	A	502	ASN
1	A	584	GLN
1	A	621	ASN

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Mol	Chain	Res	Type
1	A	630	GLN
1	A	633	ASN
1	A	752	ASN
1	A	816	ASN
1	A	827	ASN
1	A	915	GLN
1	A	916	GLN
1	A	1099	GLN
1	A	1137	ASN
1	A	1143	GLN
1	A	1162	GLN
2	B	272	HIS
2	B	289	ASN
2	B	312	ASN
2	B	353	GLN
2	B	375	ASN
2	B	410	HIS
2	B	418	GLN
2	B	426	ASN
2	B	429	ASN
2	B	458	HIS
2	B	555	GLN
2	B	559	HIS
2	B	649	ASN
2	B	652	GLN
2	B	682	GLN
2	B	713	ASN
2	B	722	ASN
2	B	782	ASN
2	B	792	GLN
2	B	804	HIS
2	B	830	ASN
2	B	854	ASN
2	B	875	GLN
2	B	903	HIS
2	B	962	GLN
2	B	1080	HIS
2	B	1176	ASN
2	B	1192	ASN
3	C	31	ASN
3	C	123	ASN
3	C	272	HIS

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Mol	Chain	Res	Type
3	C	285	ASN
3	C	287	GLN
3	C	303	GLN
3	C	411	GLN
3	C	461	ASN
3	C	465	ASN
3	C	506	GLN
3	C	595	GLN
3	C	607	HIS
3	C	614	GLN
3	C	663	GLN
3	C	782	ASN
3	C	792	GLN
3	C	848	ASN
3	C	854	ASN
3	C	940	GLN
3	C	956	HIS
3	C	1030	GLN
3	C	1053	GLN
3	C	1198	ASN
4	D	87	HIS
4	D	139	ASN
4	D	143	HIS
4	D	153	GLN
4	D	195	GLN
4	D	230	ASN
4	D	242	ASN
4	D	273	HIS
4	D	276	HIS
4	D	343	GLN
4	D	396	GLN
4	E	12	ASN
4	E	75	HIS
4	E	83	GLN
4	E	131	ASN
4	E	140	GLN
4	E	251	ASN
4	E	273	HIS
4	E	340	GLN
4	E	377	ASN
5	F	4	HIS
5	F	34	ASN

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Mol	Chain	Res	Type
5	F	69	HIS
5	F	76	ASN
5	F	90	GLN
5	F	180	HIS
5	F	231	HIS
5	F	232	GLN
5	F	259	HIS
5	G	4	HIS
5	G	34	ASN
5	G	69	HIS
5	G	76	ASN
5	G	90	GLN
5	G	180	HIS
5	G	231	HIS
5	G	232	GLN
5	G	259	HIS
5	H	4	HIS
5	H	34	ASN
5	H	69	HIS
5	H	76	ASN
5	H	90	GLN
5	H	180	HIS
5	H	231	HIS
5	H	232	GLN
5	H	259	HIS
6	I	133	ASN
6	I	144	ASN
6	I	146	GLN
6	I	160	GLN
6	I	209	ASN
6	I	233	HIS
6	I	363	ASN
6	I	423	GLN
6	I	456	ASN
6	I	512	ASN
6	I	515	ASN
6	I	546	GLN
6	I	593	GLN
6	I	640	GLN
6	J	133	ASN
6	J	144	ASN
6	J	160	GLN

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Mol	Chain	Res	Type
6	J	209	ASN
6	J	233	HIS
6	J	363	ASN
6	J	456	ASN
6	J	512	ASN
6	J	515	ASN
6	J	546	GLN
6	J	593	GLN
6	J	640	GLN
6	K	133	ASN
6	K	144	ASN
6	K	146	GLN
6	K	160	GLN
6	K	209	ASN
6	K	233	HIS
6	K	363	ASN
6	K	414	GLN
6	K	418	ASN
6	K	423	GLN
6	K	456	ASN
6	K	512	ASN
6	K	515	ASN
6	K	546	GLN
6	K	593	GLN
6	K	640	GLN
5	L	4	HIS
5	L	34	ASN
5	L	69	HIS
5	L	76	ASN
5	L	90	GLN
5	L	180	HIS
5	L	231	HIS
5	L	232	GLN
5	L	259	HIS
5	M	4	HIS
5	M	34	ASN
5	M	69	HIS
5	M	76	ASN
5	M	90	GLN
5	M	180	HIS
5	M	231	HIS
5	M	232	GLN

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Mol	Chain	Res	Type
5	M	259	HIS
5	N	4	HIS
5	N	34	ASN
5	N	69	HIS
5	N	76	ASN
5	N	90	GLN
5	N	180	HIS
5	N	231	HIS
5	N	232	GLN
5	N	259	HIS
6	O	133	ASN
6	O	144	ASN
6	O	160	GLN
6	O	209	ASN
6	O	233	HIS
6	O	363	ASN
6	O	456	ASN
6	O	512	ASN
6	O	515	ASN
6	O	546	GLN
6	O	593	GLN
6	O	640	GLN
6	P	93	GLN
6	P	133	ASN
6	P	144	ASN
6	P	160	GLN
6	P	209	ASN
6	P	233	HIS
6	P	363	ASN
6	P	414	GLN
6	P	456	ASN
6	P	512	ASN
6	P	515	ASN
6	P	546	GLN
6	P	593	GLN
6	P	640	GLN
6	Q	133	ASN
6	Q	144	ASN
6	Q	146	GLN
6	Q	160	GLN
6	Q	209	ASN
6	Q	233	HIS

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Mol	Chain	Res	Type
6	Q	363	ASN
6	Q	414	GLN
6	Q	456	ASN
6	Q	512	ASN
6	Q	515	ASN
6	Q	546	GLN
6	Q	593	GLN
6	Q	640	GLN
5	R	4	HIS
5	R	34	ASN
5	R	69	HIS
5	R	76	ASN
5	R	90	GLN
5	R	180	HIS
5	R	231	HIS
5	R	232	GLN
5	R	259	HIS
5	S	4	HIS
5	S	34	ASN
5	S	69	HIS
5	S	76	ASN
5	S	90	GLN
5	S	180	HIS
5	S	231	HIS
5	S	232	GLN
5	S	259	HIS
5	T	4	HIS
5	T	34	ASN
5	T	69	HIS
5	T	76	ASN
5	T	90	GLN
5	T	180	HIS
5	T	231	HIS
5	T	232	GLN
5	T	259	HIS
6	U	133	ASN
6	U	144	ASN
6	U	146	GLN
6	U	160	GLN
6	U	209	ASN
6	U	233	HIS
6	U	363	ASN

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Mol	Chain	Res	Type
6	U	456	ASN
6	U	512	ASN
6	U	515	ASN
6	U	546	GLN
6	U	593	GLN
6	U	640	GLN
6	V	93	GLN
6	V	133	ASN
6	V	144	ASN
6	V	146	GLN
6	V	160	GLN
6	V	209	ASN
6	V	233	HIS
6	V	363	ASN
6	V	406	ASN
6	V	414	GLN
6	V	423	GLN
6	V	456	ASN
6	V	493	GLN
6	V	512	ASN
6	V	515	ASN
6	V	546	GLN
6	V	593	GLN
6	V	640	GLN
6	W	133	ASN
6	W	144	ASN
6	W	146	GLN
6	W	160	GLN
6	W	209	ASN
6	W	233	HIS
6	W	363	ASN
6	W	418	ASN
6	W	456	ASN
6	W	512	ASN
6	W	515	ASN
6	W	546	GLN
6	W	593	GLN
6	W	640	GLN
6	X	133	ASN
6	X	144	ASN
6	X	146	GLN
6	X	209	ASN

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Mol	Chain	Res	Type
6	X	233	HIS
6	X	363	ASN
6	X	456	ASN
6	X	512	ASN
6	X	515	ASN
6	X	546	GLN
6	X	593	GLN
5	Y	11	HIS
5	Y	34	ASN
5	Y	69	HIS
5	Y	76	ASN
5	Y	90	GLN
5	Y	180	HIS
5	Y	231	HIS
5	Y	232	GLN
5	Y	259	HIS

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

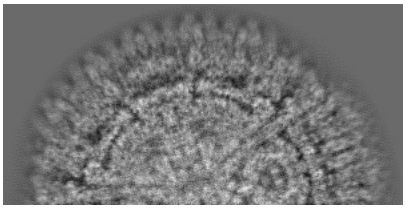
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-1653. These allow visual inspection of the internal detail of the map and identification of artifacts.

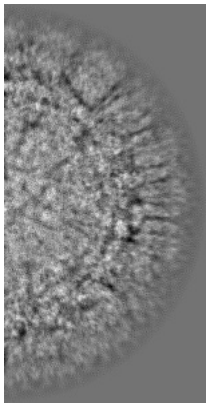
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

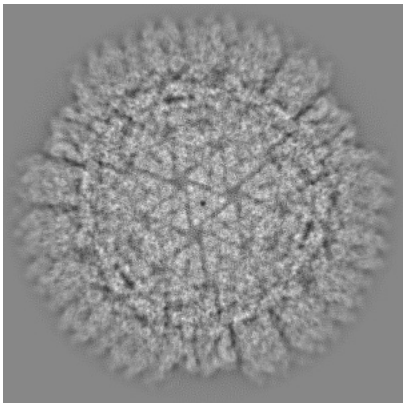
6.1.1 Primary map



X



Y

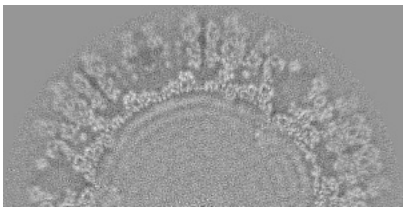


Z

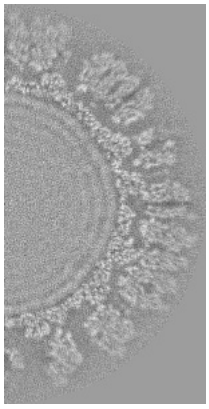
The images above show the map projected in three orthogonal directions.

6.2 Central slices

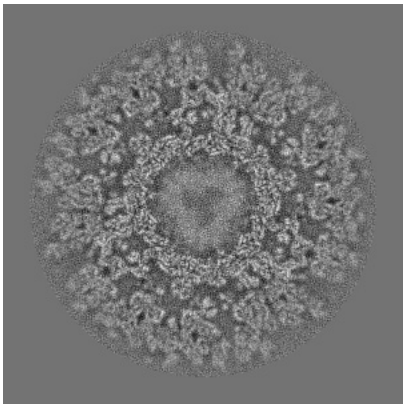
6.2.1 Primary map



X Index: 464



Y Index: 464

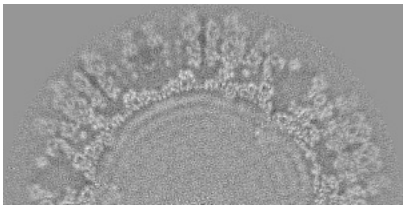


Z Index: 232

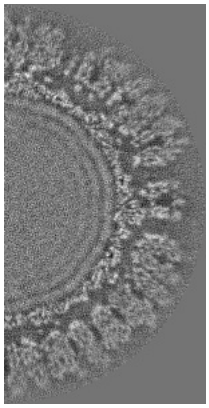
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

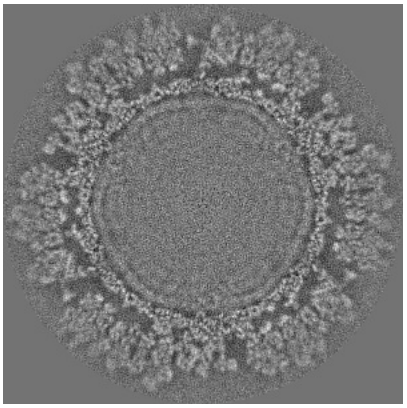
6.3.1 Primary map



X Index: 464



Y Index: 501

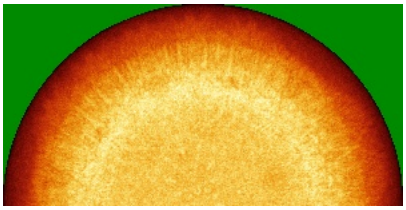


Z Index: 18

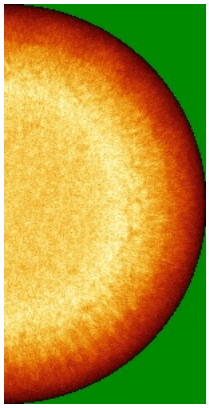
The images above show the largest variance slices of the map in three orthogonal directions.

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

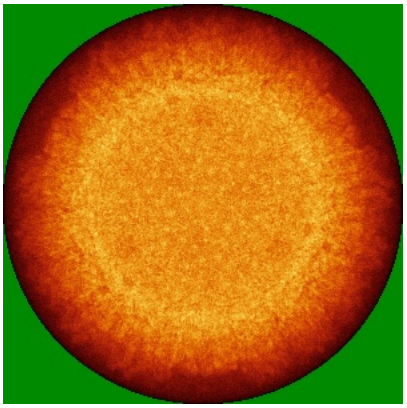
6.4.1 Primary map



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)

This section was not generated.

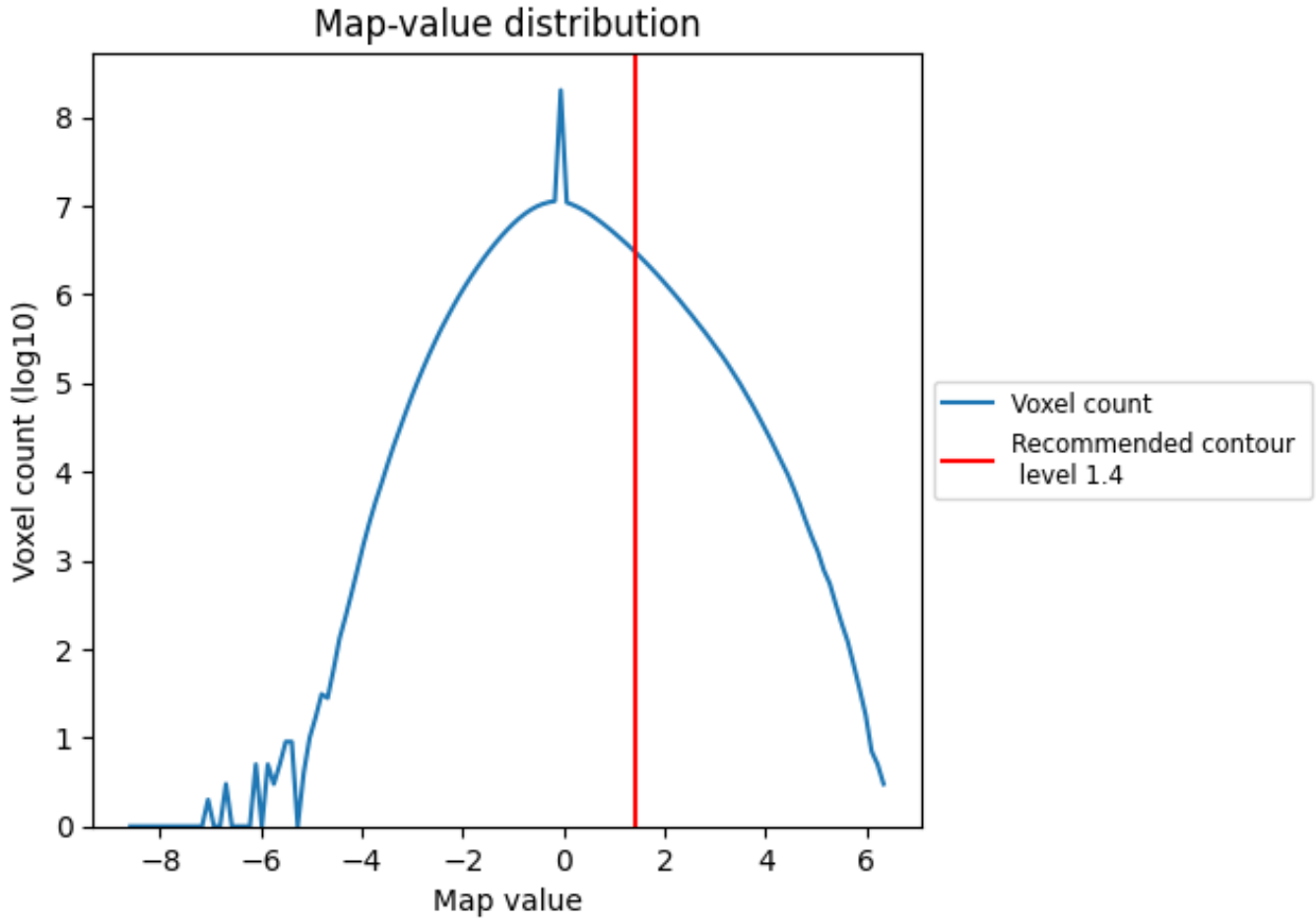
6.6 Mask visualisation (i)

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

7 Map analysis

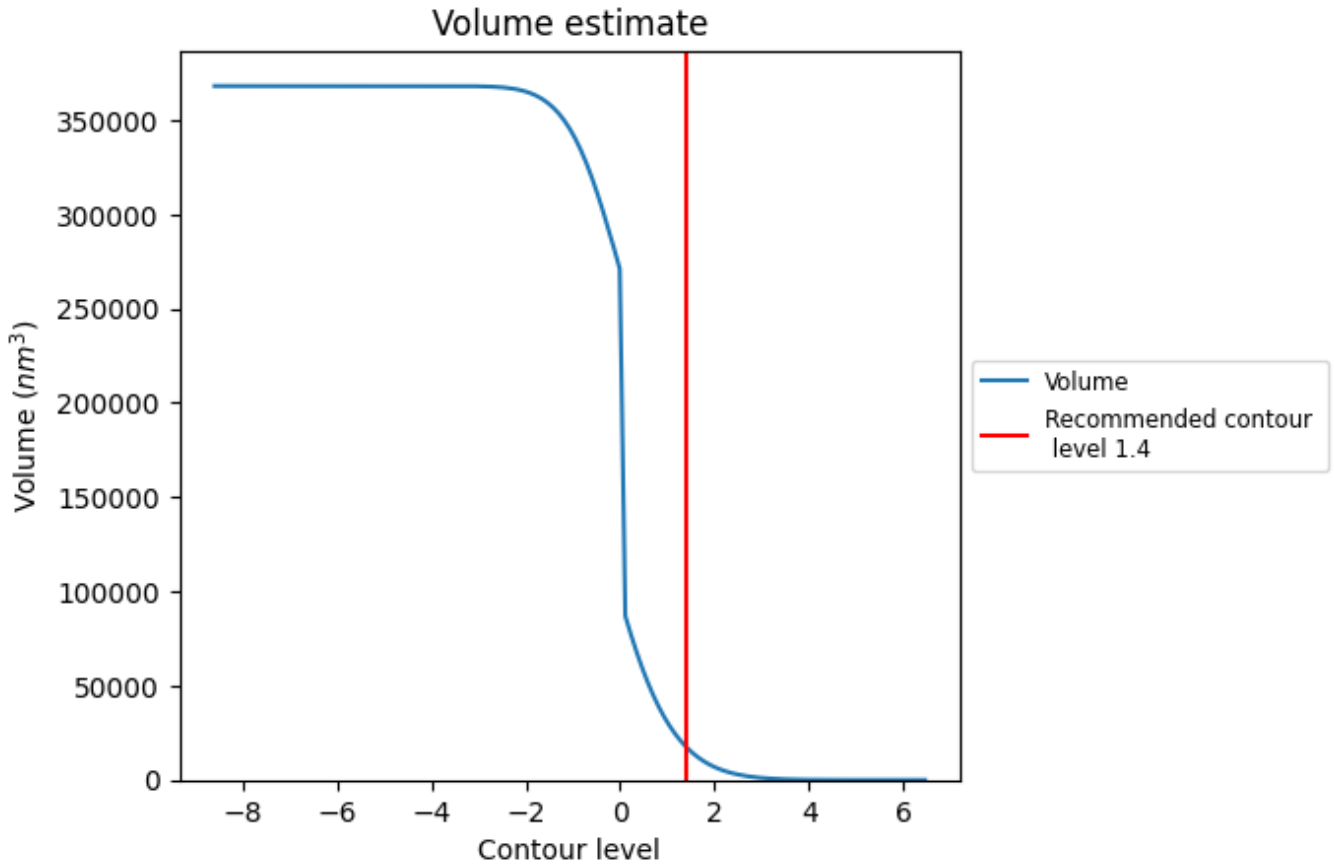
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

7.2 Volume estimate



The volume at the recommended contour level is 17524 nm^3; this corresponds to an approximate mass of 15830 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

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.

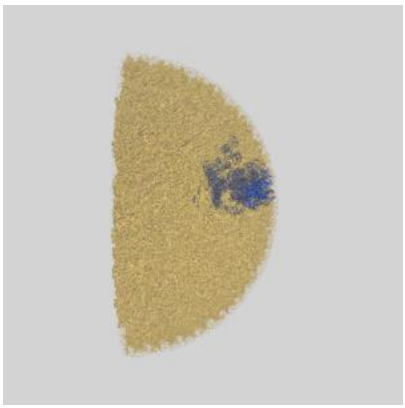
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-1653 and PDB model 3K1Q. Per-residue inclusion information can be found in section 3 on page 6.

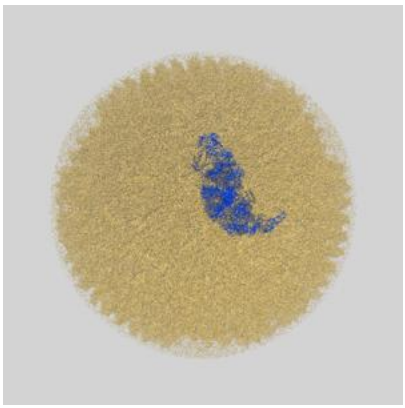
9.1 Map-model overlays

9.1.1 Map-model overlay

X

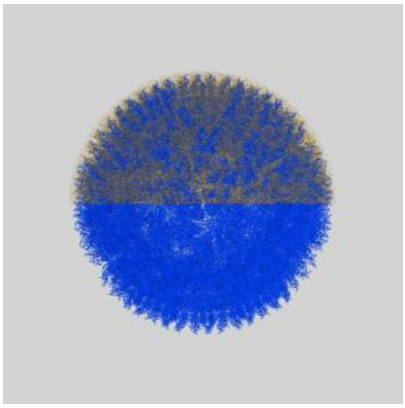


Y

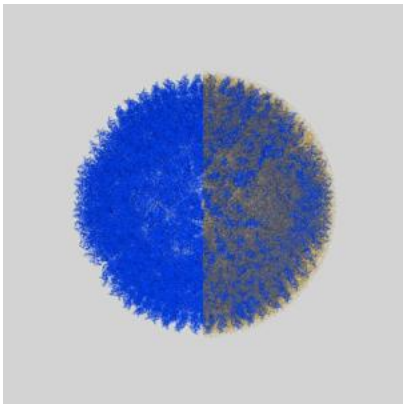


Z

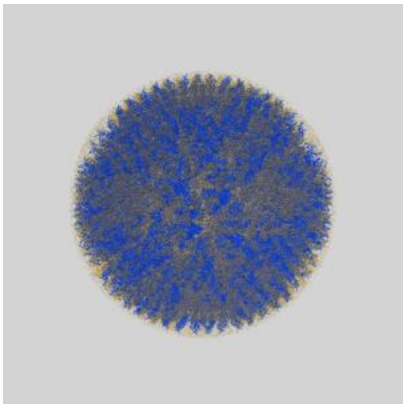
9.1.2 Map-model assembly overlay



X



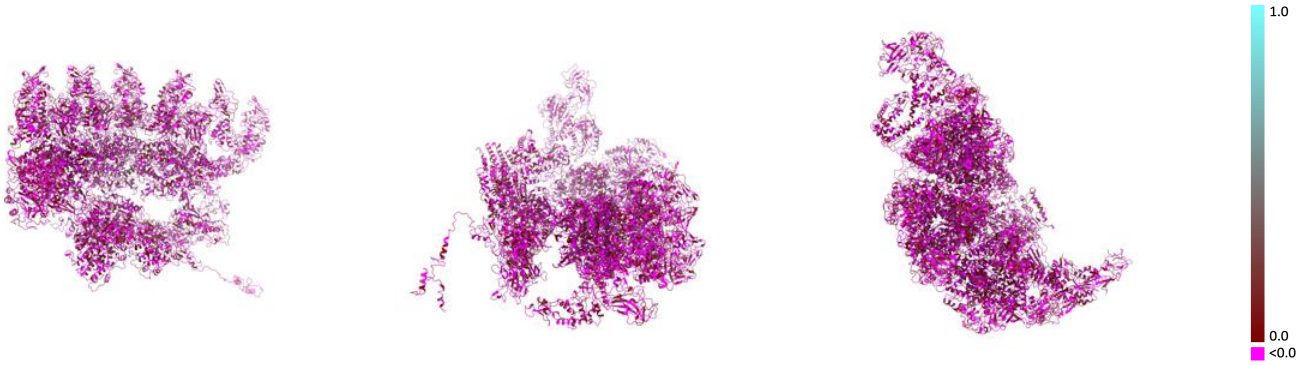
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 1.4 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



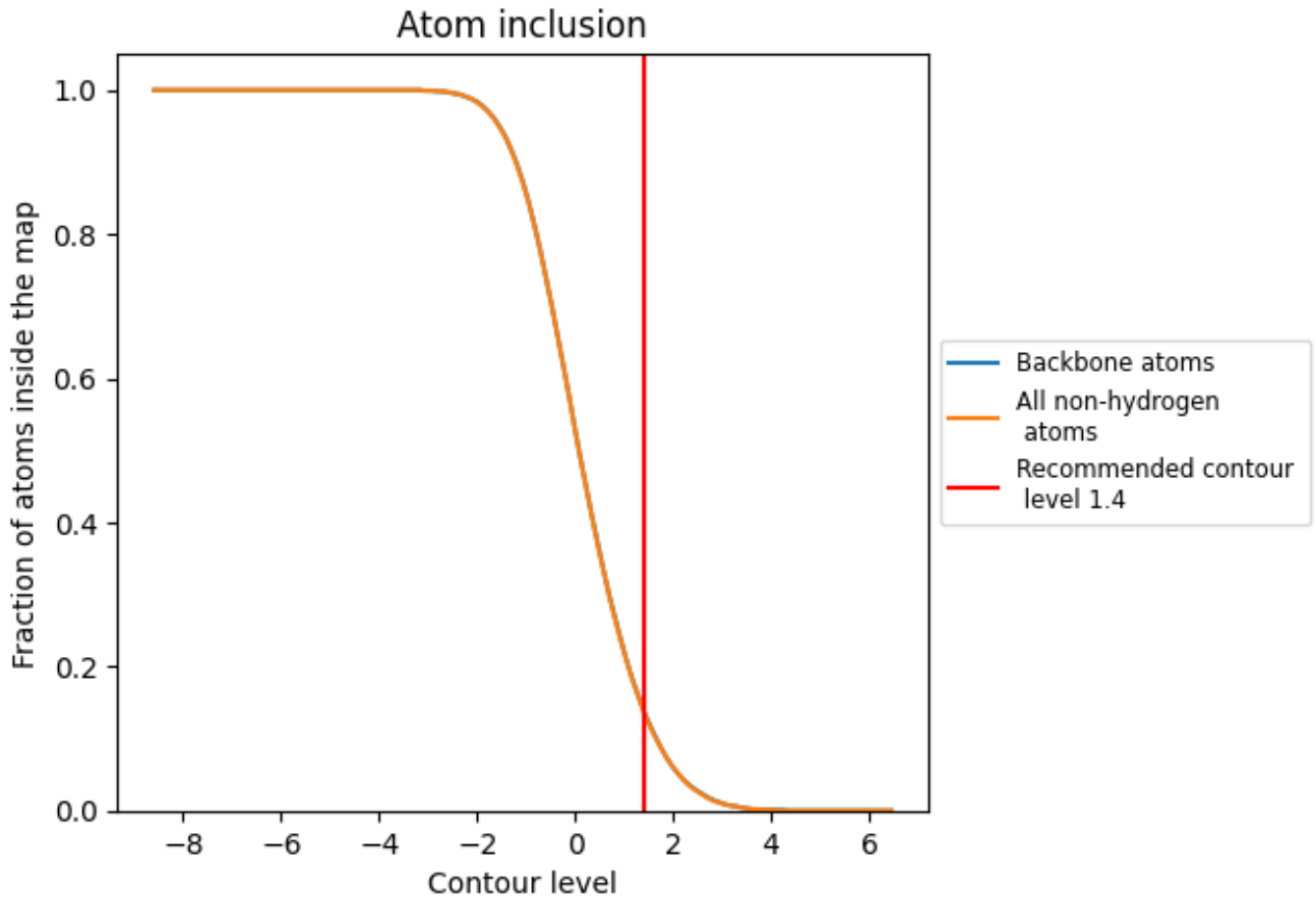
X Y Z

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

9.3 Atom inclusion mapped to coordinate model

This section was not generated.

9.4 Atom inclusion (i)



At the recommended contour level, 14% of all backbone atoms, 14% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (1.4) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.1370	-0.0000
A	0.1560	0.0070
B	0.2250	0.0040
C	0.2280	0.0010
D	0.1740	-0.0070
E	0.2600	0.0160
F	0.0820	0.0040
G	0.0690	0.0000
H	0.0710	0.0190
I	0.1230	-0.0100
J	0.1500	-0.0010
K	0.1500	0.0060
L	0.0590	0.0070
M	0.0640	-0.0050
N	0.0020	0.0040
O	0.1100	0.0000
P	0.1070	0.0080
Q	0.1170	-0.0080
R	0.0750	-0.0150
S	0.0820	0.0050
T	0.0920	0.0000
U	0.1260	-0.0060
V	0.1260	-0.0130
W	0.1470	-0.0100
X	0.0970	-0.0090
Y	0.0040	-0.0050