Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 06:42 PM UTC

PDB ID	:	5A5B / pdb_00005a5b
EMDB ID	:	EMD-3034
Title	:	Structure of the 26S proteasome-Ubp6 complex
Authors	:	Aufderheide, A.; Beck, F.; Stengel, F.; Hartwig, M.; Schweitzer, A.; Pfeifer, G.; Goldberg, A.L.; Sakata, E.; Baumeister, W.; Foerster, F.
Deposited on	:	2015-06-17
Resolution	:	9.50 Å(reported)
Based on initial models	:	1VJV, 4C43

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

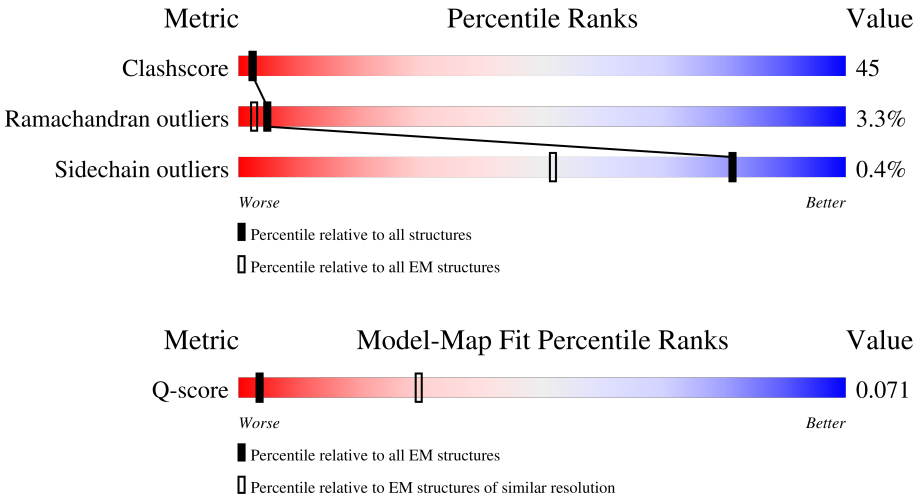
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 9.50 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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	234 (9.00 - 10.00)

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	1	215	60% 30% 44% 21% 5%
2	2	261	61% 34% 38% 13% • 15%
3	3	205	71% 38% 49% 13%
4	4	198	59% 37% 48% 14% •

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Mol	Chain	Length	Quality of chain
5	5	287	40% 24% 33% 16% 26%
6	6	241	49% 33% 48% 11% 8%
7	7	266	48% 29% 42% 16% 12%
8	8	416	32% 75% 13% 12%
9	9	76	46% 61% 34%
10	A	252	27% 27% 50% 19%
11	B	250	36% 32% 49% 20%
12	C	258	33% 32% 45% 18% 5%
13	D	254	22% 39% 43% 13% 5%
14	E	260	27% 35% 48% 10% 7%
15	F	234	22% 35% 45% 19%
16	G	288	23% 25% 44% 16% 15%
17	H	467	34% 28% 34% 13% 23%
18	I	437	33% 24% 40% 19% 17%
19	J	405	29% 28% 45% 18% 8%
20	K	428	35% 25% 43% 21% 11%
21	L	437	27% 22% 41% 19% 17%
22	M	434	38% 29% 41% 14% 15%
23	N	945	24% 34% 40% 16% 10%
24	O	393	20% 30% 54% 13%
25	P	445	12% 28% 44% 19% 7%
26	Q	434	18% 31% 45% 23%
27	R	429	20% 28% 44% 21% 7%
28	S	523	25% 22% 32% 13% 33%
29	T	274	27% 30% 43% 24%

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Mol	Chain	Length	Quality of chain
30	U	338	31% 25% 35% 13% 25%
31	V	306	24% 29% 37% 13% 19%
32	W	268	25% 23% 37% 10% 26%
33	X	156	37% 21% 42% 18% 19%
34	Y	89	7% 11% 79%
35	Z	993	33% 27% 38% 15% 18%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
9	GLZ	9	76	-	-	X	-

2 Entry composition (i)

There are 35 unique types of molecules in this entry. The entry contains 83748 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 PROTEASOME COMPONENT PRE3.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	1	205	Total	C	N	O	S	0	0
			1576	996	261	312	7		

- Molecule 2 is a protein called PROTEASOME COMPONENT PUP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	2	223	Total	C	N	O	S	0	0
			1692	1067	294	324	7		

- Molecule 3 is a protein called PROTEASOME COMPONENT PUP3.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	3	204	Total	C	N	O	S	0	0
			1581	1010	258	305	8		

- Molecule 4 is a protein called PROTEASOME COMPONENT C11.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	4	198	Total	C	N	O	S	0	0
			1585	1005	269	305	6		

- Molecule 5 is a protein called PROTEASOME COMPONENT PRE2.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	5	212	Total	C	N	O	S	0	0
			1646	1045	282	312	7		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
5	33	ARG	LYS	conflict	UNP P30656

- Molecule 6 is a protein called PROTEASOME COMPONENT C5.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	6	222	Total	C	N	O	S	0	0
			1757	1115	303	335	4		

- Molecule 7 is a protein called PROTEASOME COMPONENT PRE4.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	7	233	Total	C	N	O	S	0	0
			1824	1154	312	351	7		

- Molecule 8 is a protein called UBIQUITIN CARBOXYL-TERMINAL HYDROLASE 6.

Mol	Chain	Residues	Atoms						AltConf	Trace
8	8	368	Total	C	N	O	S	Se	10	1
			3008	1922	500	571	5	10		

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
8	85	MSE	-	expression tag	UNP P43593
8	86	GLY	-	expression tag	UNP P43593
8	87	SER	-	expression tag	UNP P43593
8	88	ASP	-	expression tag	UNP P43593
8	89	LYS	-	expression tag	UNP P43593
8	90	ILE	-	expression tag	UNP P43593
8	91	HIS	-	expression tag	UNP P43593
8	92	HIS	-	expression tag	UNP P43593
8	93	HIS	-	expression tag	UNP P43593
8	94	HIS	-	expression tag	UNP P43593
8	95	HIS	-	expression tag	UNP P43593
8	96	HIS	-	expression tag	UNP P43593
8	500	MSE	-	expression tag	UNP P43593
8	182	VAL	ILE	conflict	UNP P43593

- Molecule 9 is a protein called UBIQUITIN ALDEHYDE.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	9	76	Total	C	N	O	S	0	0
			601	378	105	117	1		

- Molecule 10 is a protein called PROTEASOME COMPONENT C7-ALPHA.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	A	243	Total	C	N	O	S	0	0
			1921	1221	322	370	8		

- Molecule 11 is a protein called PROTEASOME COMPONENT Y7.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	B	250	Total	C	N	O	S	0	0
			1915	1219	315	377	4		

- Molecule 12 is a protein called PROTEASOME COMPONENT Y13.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	C	245	Total	C	N	O	S	0	0
			1913	1207	323	380	3		

- Molecule 13 is a protein called PROTEASOME COMPONENT PRE6.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	D	242	Total	C	N	O	S	0	0
			1899	1186	333	376	4		

- Molecule 14 is a protein called PROTEASOME COMPONENT PUP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	E	243	Total	C	N	O	S	0	0
			1867	1165	315	380	7		

- Molecule 15 is a protein called PROTEASOME COMPONENT PRE5.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	F	233	Total	C	N	O	S	0	0
			1795	1129	312	350	4		

- Molecule 16 is a protein called PROTEASOME COMPONENT C1.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	G	245	Total	C	N	O	S	0	0
			1900	1207	331	358	4		

- Molecule 17 is a protein called 26S PROTEASE REGULATORY SUBUNIT 7 HOMOLOG.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	H	359	Total	C	N	O	S	0	0
			2792	1755	499	523	15		

- Molecule 18 is a protein called 26S PROTEASE REGULATORY SUBUNIT 4 HOMOLOG.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	I	362	Total	C	N	O	S	0	0
			2822	1773	471	563	15		

- Molecule 19 is a protein called 26S PROTEASE REGULATORY SUBUNIT 8 HOMOLOG.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	J	373	Total	C	N	O	S	0	0
			2928	1837	527	547	17		

- Molecule 20 is a protein called 26S PROTEASE REGULATORY SUBUNIT 6B HOMOLOG.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	K	381	Total	C	N	O	S	0	0
			3019	1898	530	581	10		

- Molecule 21 is a protein called 26S PROTEASE SUBUNIT RPT4.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	L	361	Total	C	N	O	S	0	0
			2853	1798	507	536	12		

- Molecule 22 is a protein called 26S PROTEASE REGULATORY SUBUNIT 6A.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	M	367	Total	C	N	O	S	0	0
			2866	1799	503	553	11		

- Molecule 23 is a protein called 26S PROTEASOME REGULATORY SUBUNIT RPN2.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	N	849	Total	C	N	O	S	0	0
			6562	4174	1099	1261	28		

- Molecule 24 is a protein called 26S PROTEASOME REGULATORY SUBUNIT RPN9.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	O	387	Total	C	N	O	S	0	0
			3182	2047	520	606	9		

- Molecule 25 is a protein called 26S PROTEASOME REGULATORY SUBUNIT RPN5.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	P	415	Total	C	N	O	S	0	0
			3401	2166	571	655	9		

- Molecule 26 is a protein called 26S PROTEASOME REGULATORY SUBUNIT RPN6.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	Q	431	Total	C	N	O	S	0	0
			3471	2205	574	676	16		

- Molecule 27 is a protein called 26S PROTEASOME REGULATORY SUBUNIT RPN7.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	R	400	Total	C	N	O	S	0	0
			3218	2051	527	630	10		

- Molecule 28 is a protein called 26S PROTEASOME REGULATORY SUBUNIT RPN3.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	S	353	Total	C	N	O	S	0	0
			2893	1857	482	541	13		

- Molecule 29 is a protein called 26S PROTEASOME REGULATORY SUBUNIT RPN12.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	T	272	Total	C	N	O	S	0	0
			2235	1432	355	441	7		

- Molecule 30 is a protein called 26S PROTEASOME REGULATORY SUBUNIT RPN8.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	U	255	Total	C	N	O	S	0	0
			2061	1312	352	391	6		

- Molecule 31 is a protein called 26S PROTEASOME REGULATORY SUBUNIT RPN11.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	V	247	Total	C	N	O	S	0	0
			1942	1225	328	376	13		

- Molecule 32 is a protein called 26S PROTEASOME REGULATORY SUBUNIT RPN10.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	W	197	Total	C	N	O	S	0	0
			1534	962	269	300	3		

- Molecule 33 is a protein called 26S PROTEASOME REGULATORY SUBUNIT RPN13.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	X	127	Total	C	N	O	S	0	0
			1032	664	169	195	4		

- Molecule 34 is a protein called 26S PROTEASOME COMPLEX SUBUNIT SEM1.

Mol	Chain	Residues	Atoms				AltConf	Trace
34	Y	19	Total	C	N	O	0	0
			168	101	30	37		

- Molecule 35 is a protein called 26S PROTEASOME REGULATORY SUBUNIT RPN1.

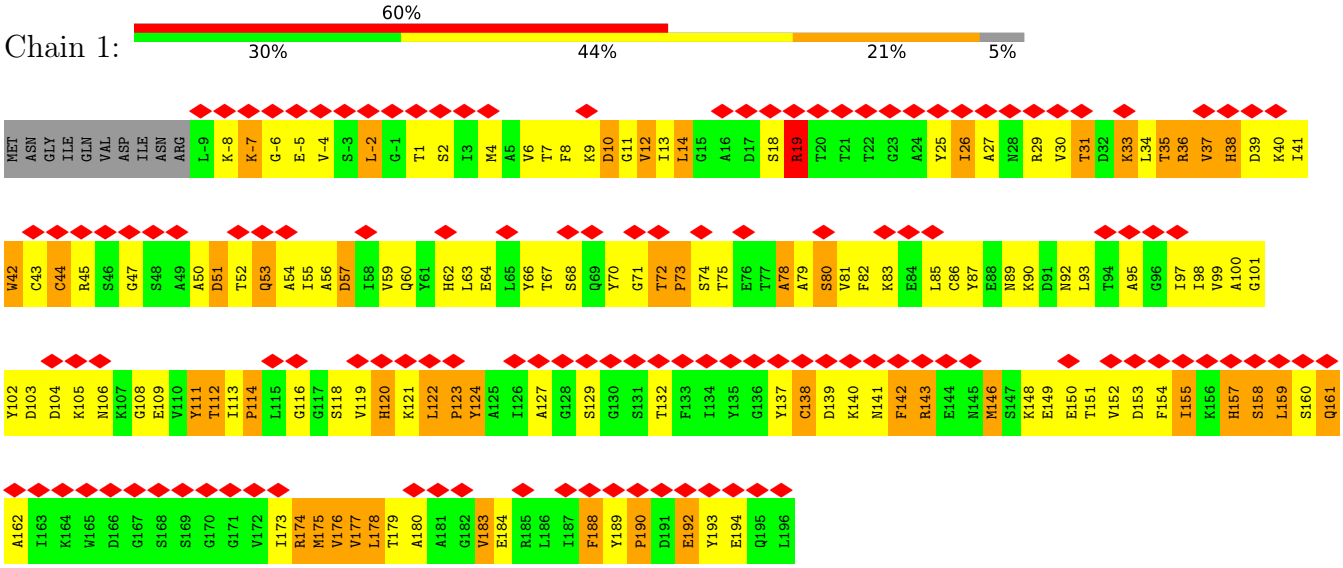
Mol	Chain	Residues	Atoms					AltConf	Trace
35	Z	813	Total	C	N	O	S	0	0
			6289	3995	1029	1236	29		

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.

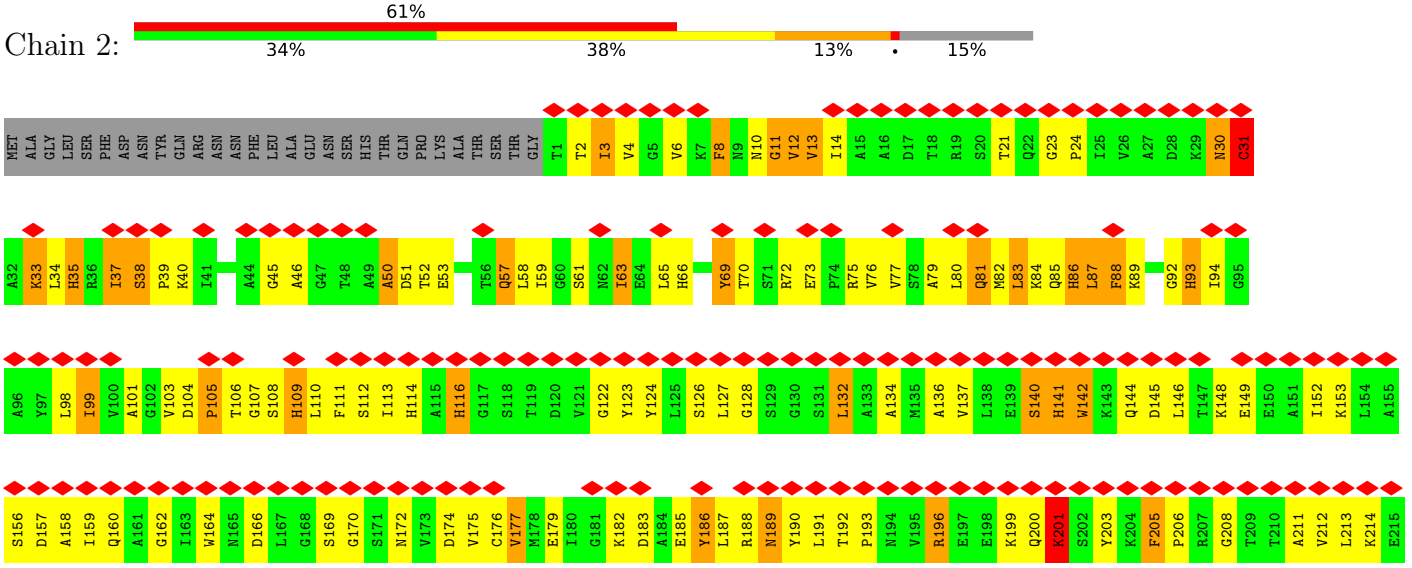
• Molecule 1: PROTEASOME COMPONENT PRE3

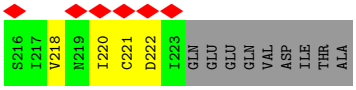
Chain 1:



• Molecule 2: PROTEASOME COMPONENT PUP1

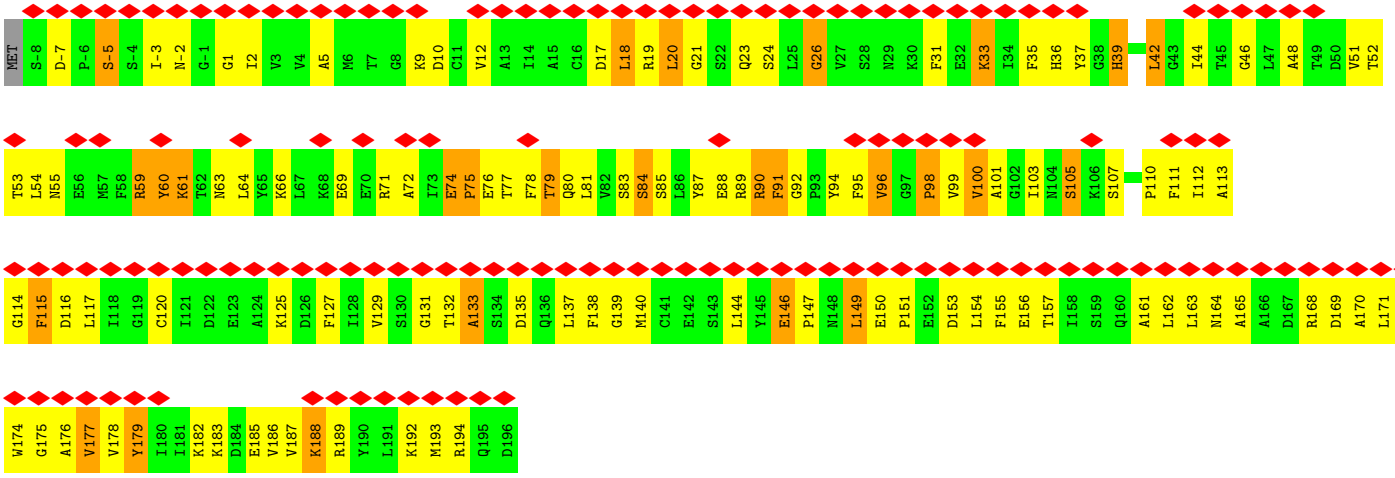
Chain 2:





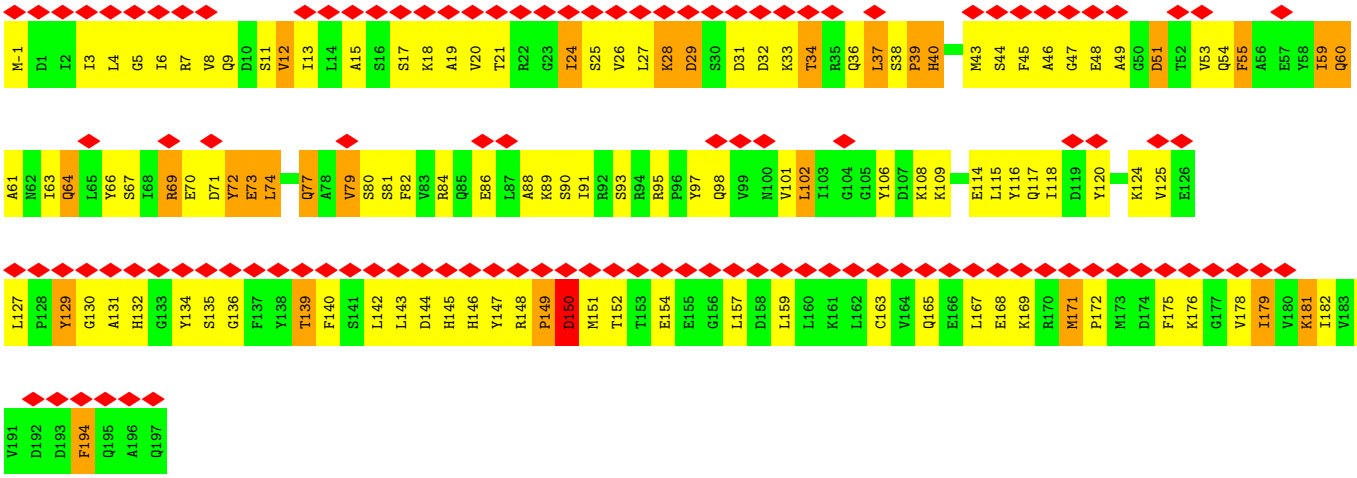
• Molecule 3: PROTEASOME COMPONENT PUP3

Chain 3:



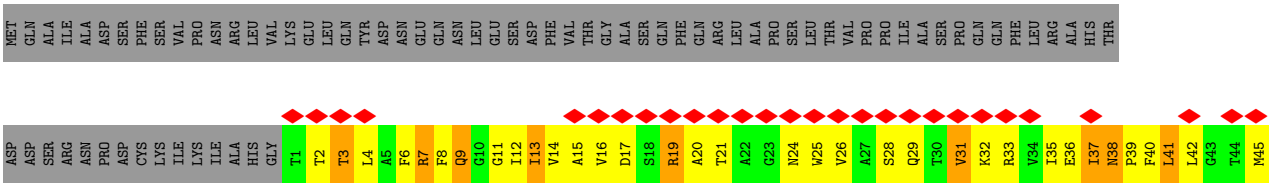
• Molecule 4: PROTEASOME COMPONENT C11

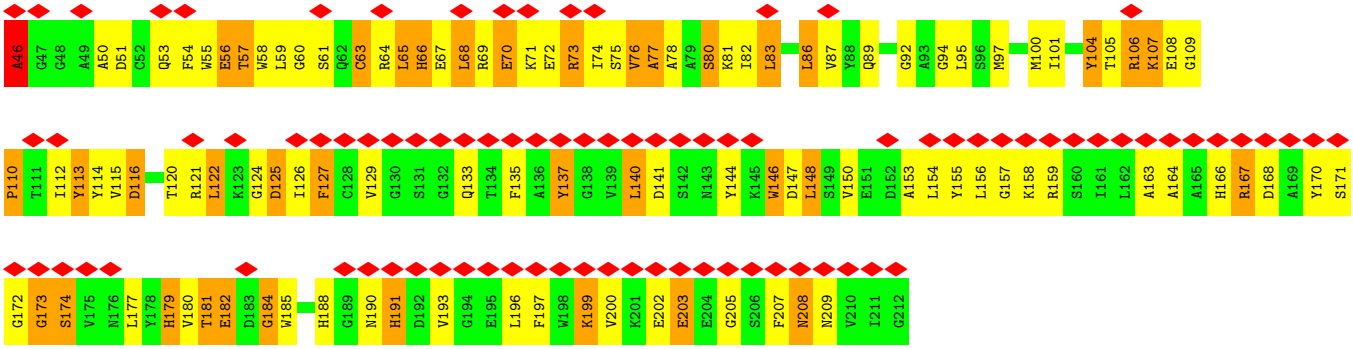
Chain 4:



• Molecule 5: PROTEASOME COMPONENT PRE2

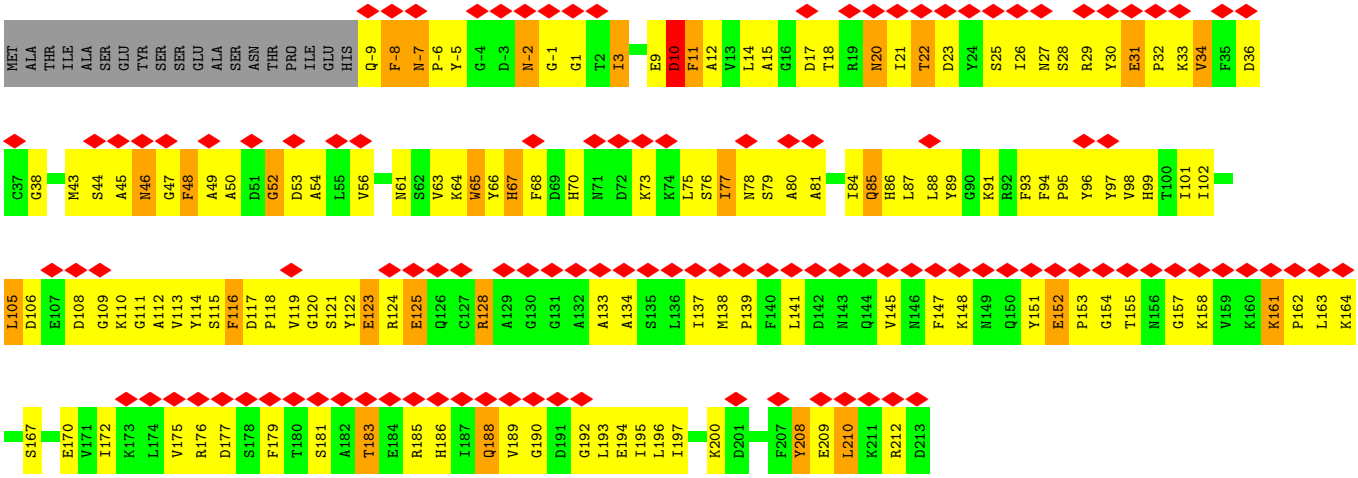
Chain 5:





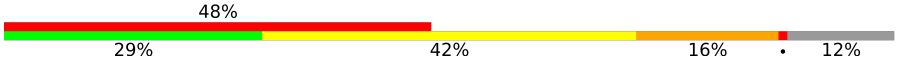
• Molecule 6: PROTEASOME COMPONENT C5

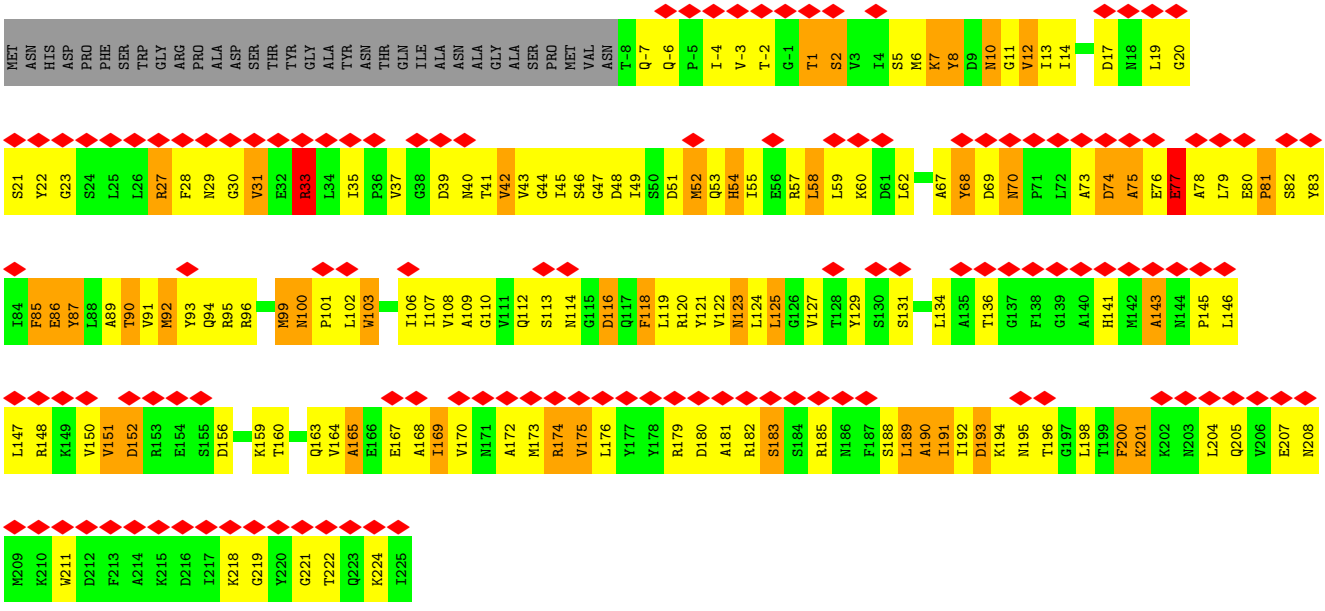
Chain 6:



• Molecule 7: PROTEASOME COMPONENT PRE4

Chain 7:

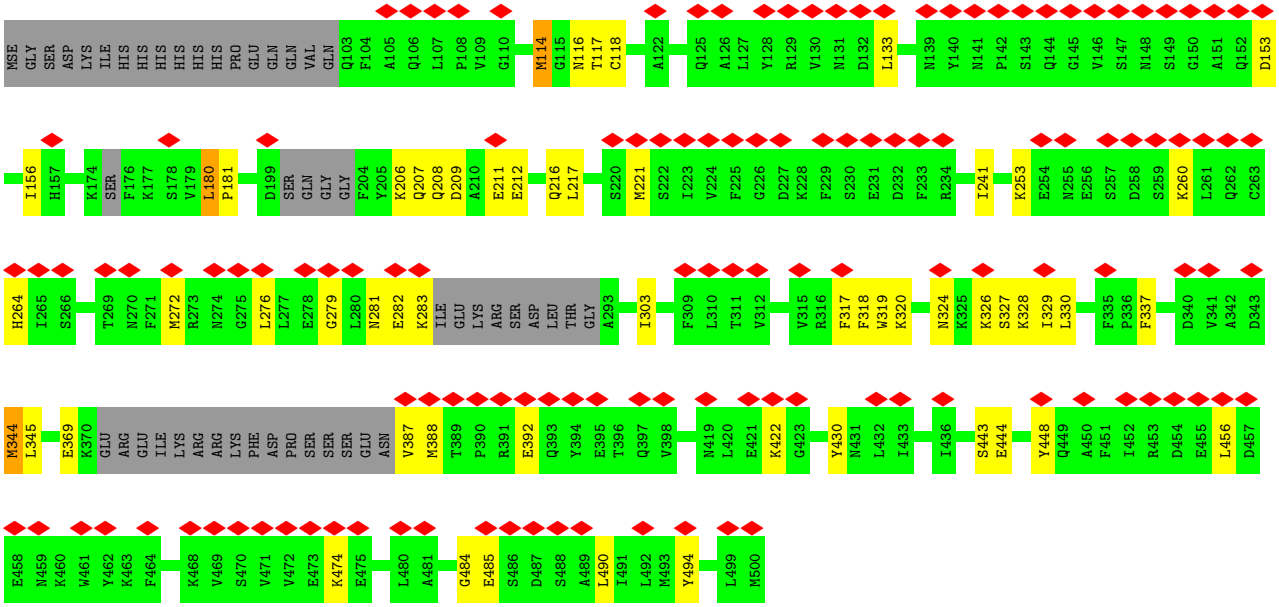




WORLDWIDE PDB PROTEIN DATA BANK

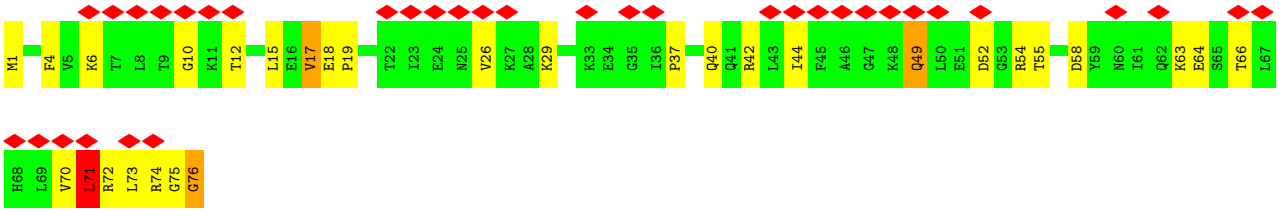
• Molecule 8: UBIQUITIN CARBOXYL-TERMINAL HYDROLASE 6

Chain 8:



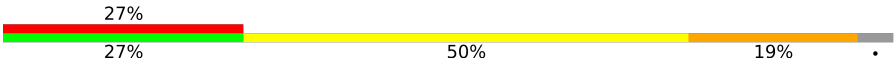
• Molecule 9: UBIQUITIN ALDEHYDE

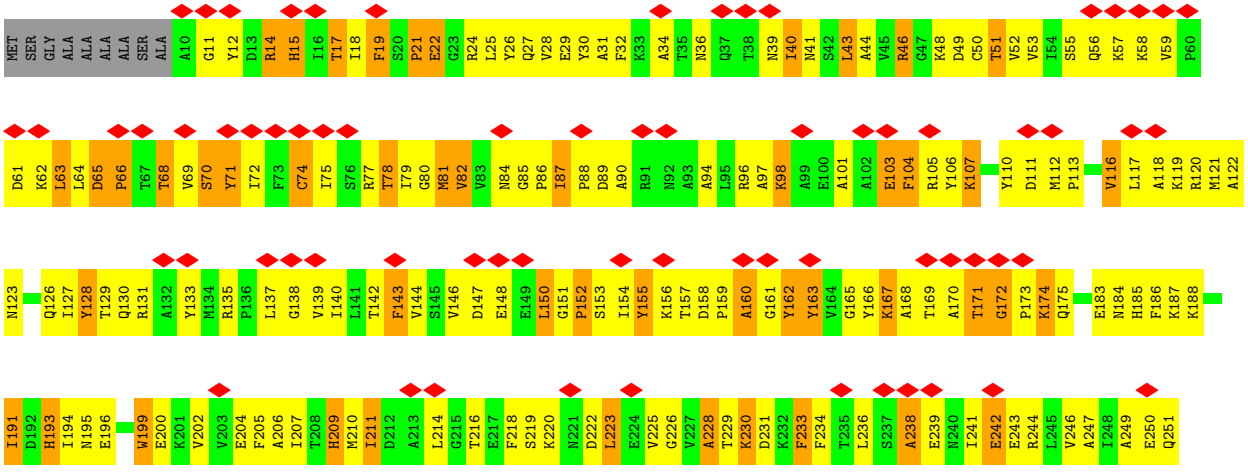
Chain 9:



• Molecule 10: PROTEASOME COMPONENT C7-ALPHA

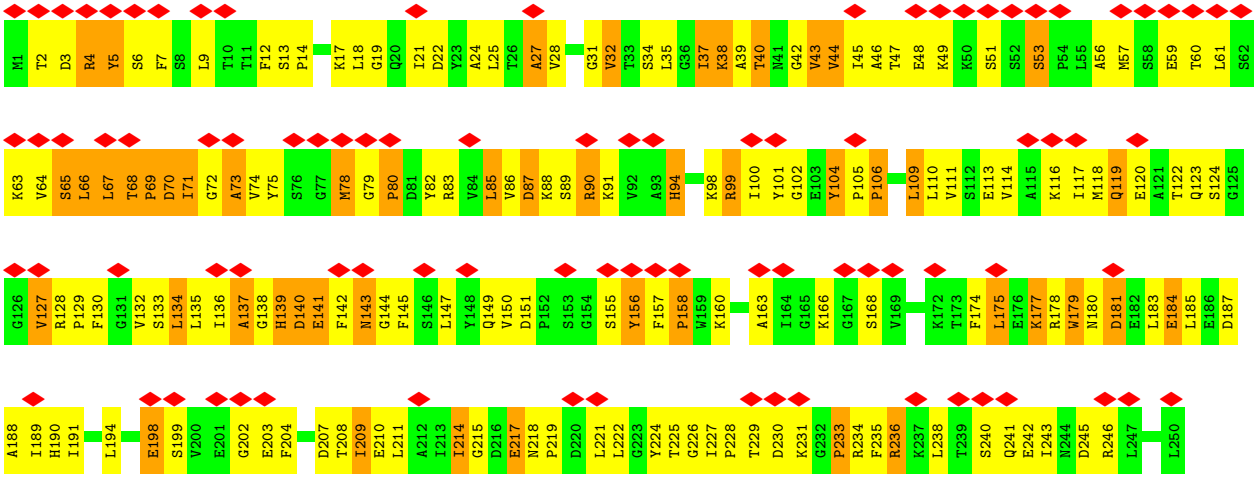
Chain A:





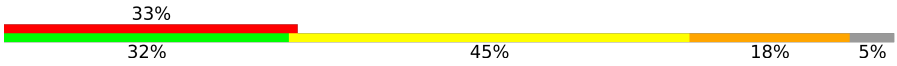
• Molecule 11: PROTEASOME COMPONENT Y7

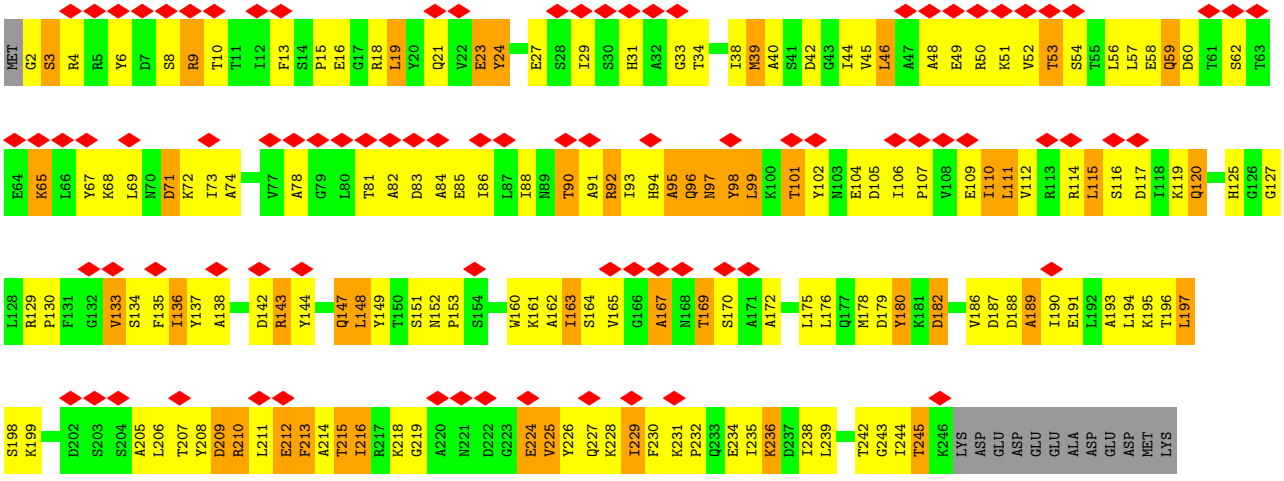
Chain B:



• Molecule 12: PROTEASOME COMPONENT Y13

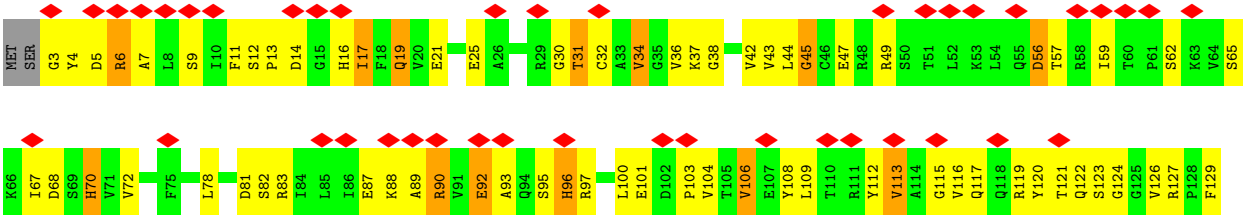
Chain C:

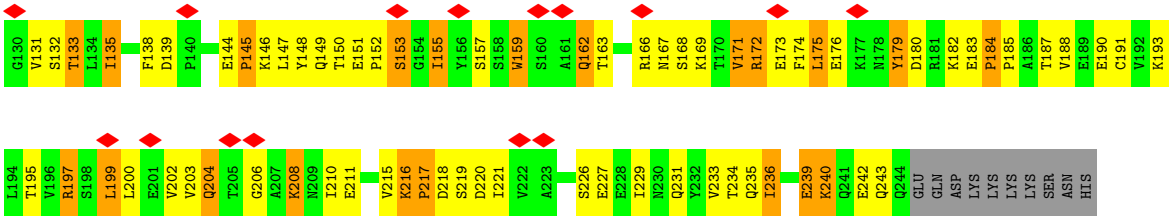




• Molecule 13: PROTEASOME COMPONENT PRE6

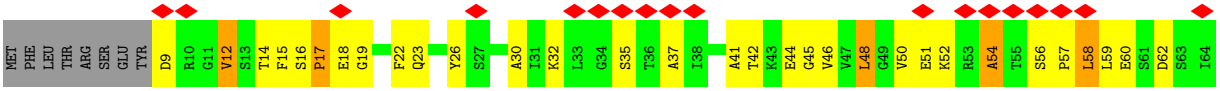
Chain D:

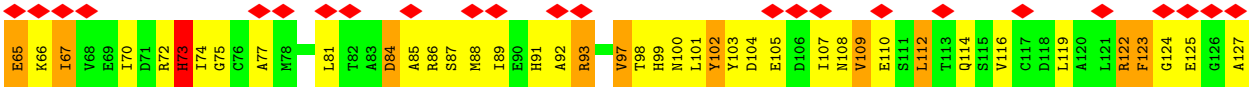


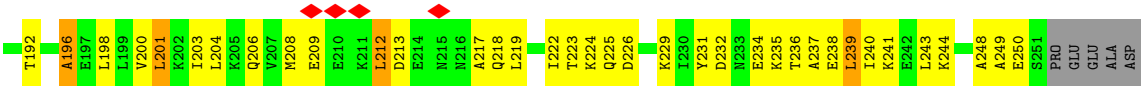


• Molecule 14: PROTEASOME COMPONENT PUP2

Chain E:

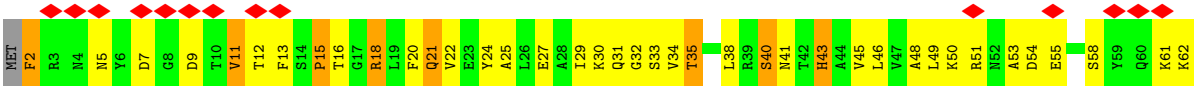


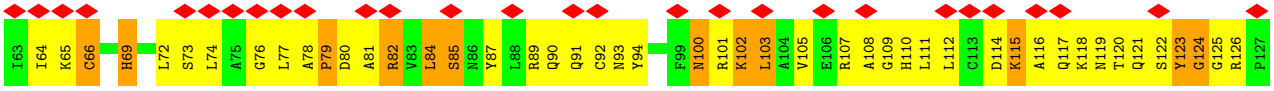


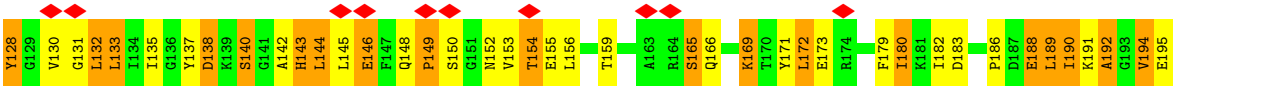


• Molecule 15: PROTEASOME COMPONENT PRE5

Chain F:

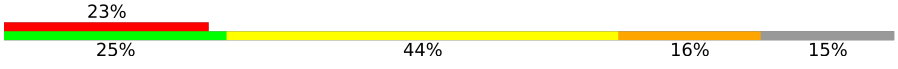


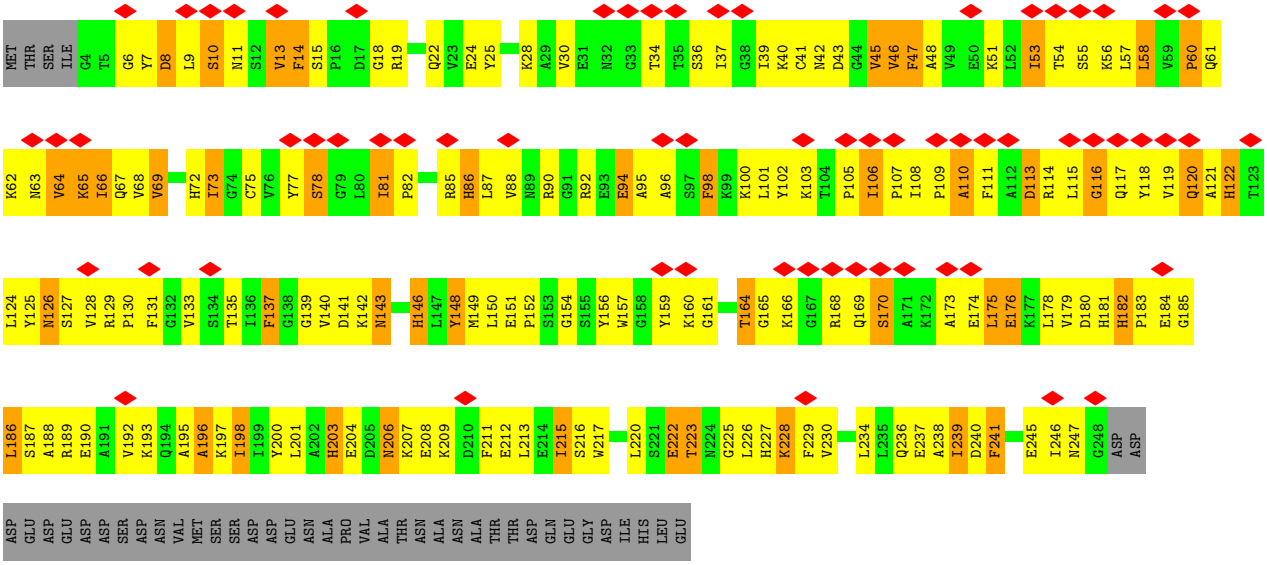




• Molecule 16: PROTEASOME COMPONENT C1

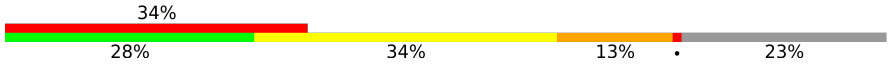
Chain G:

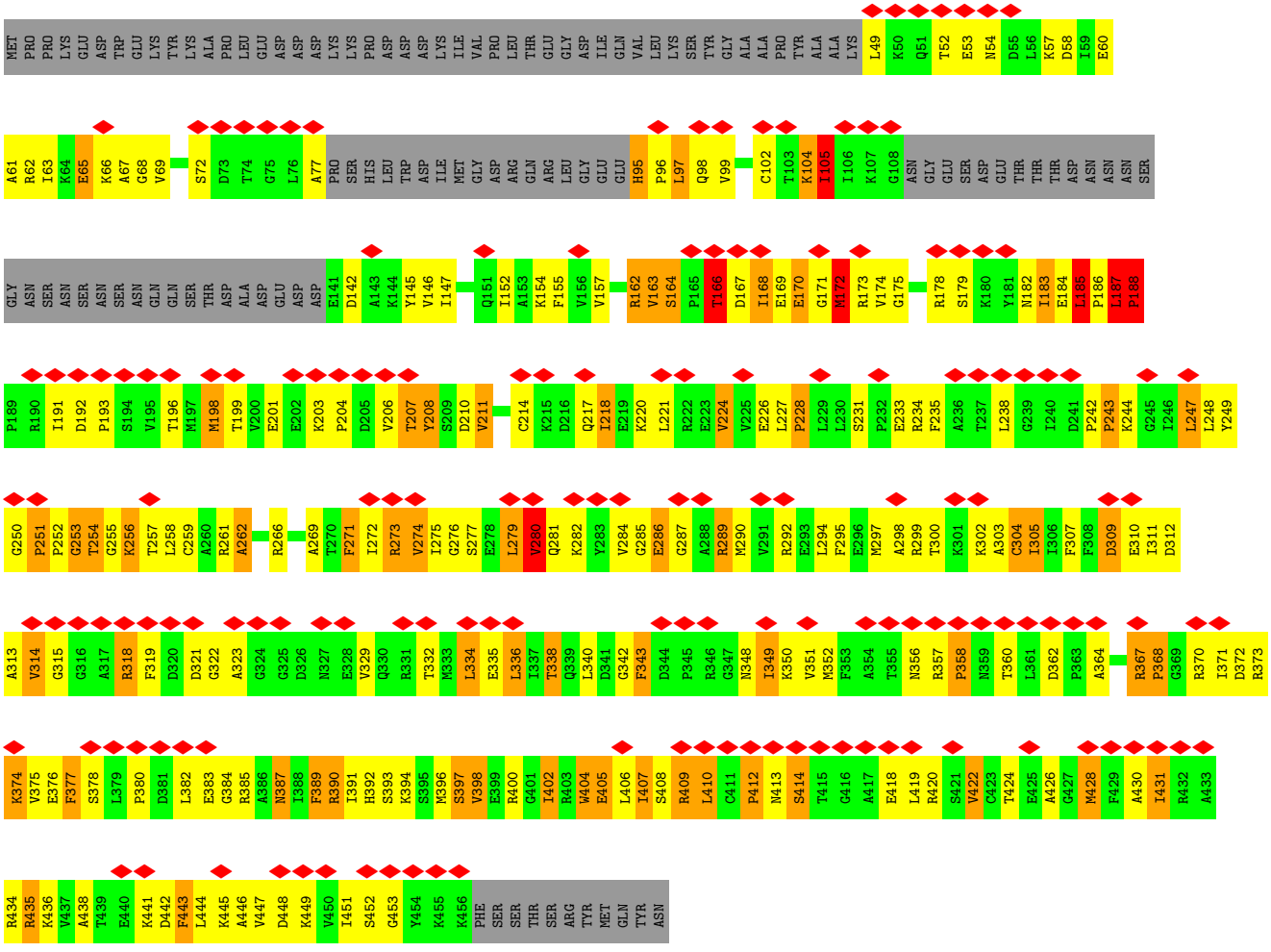




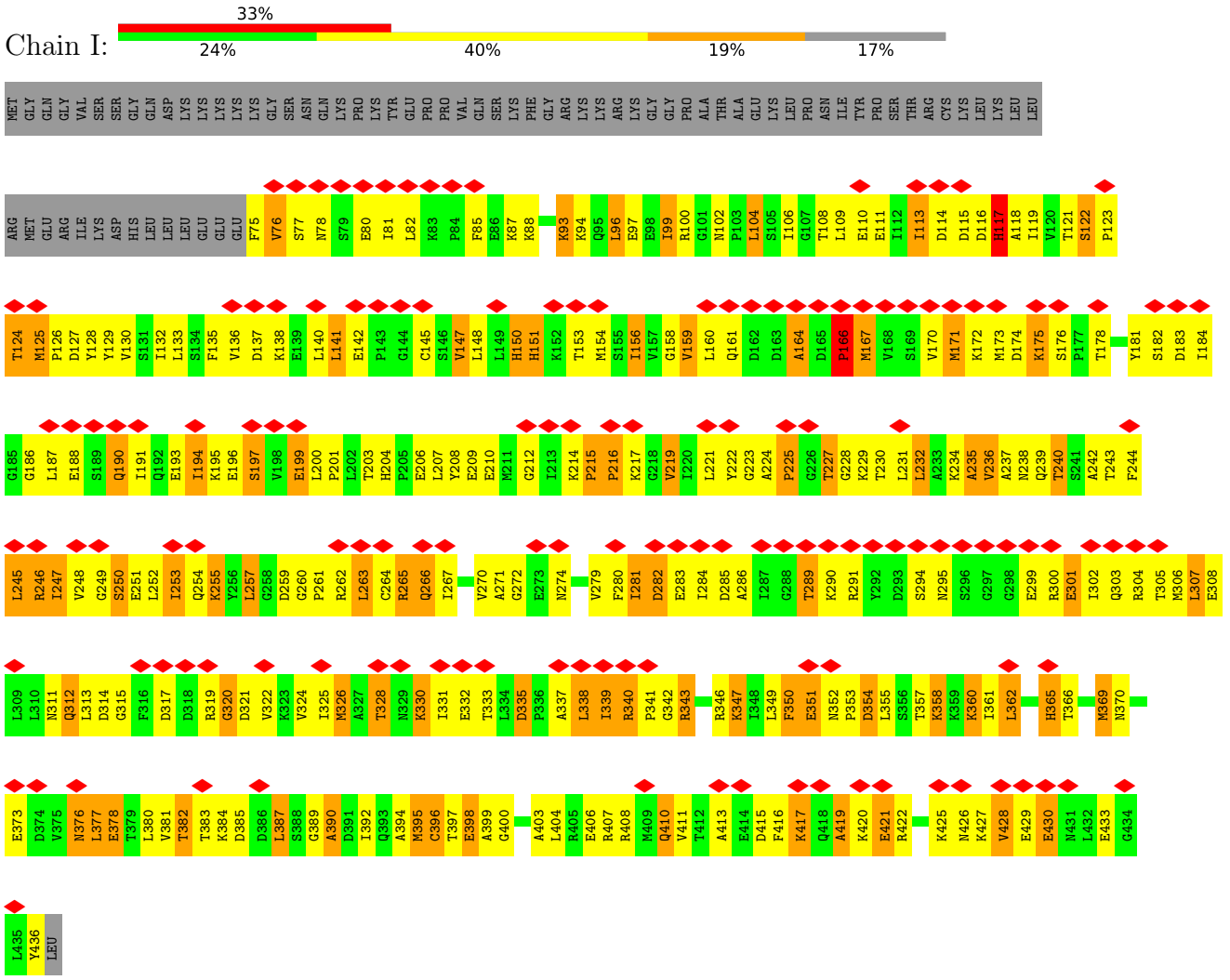
• Molecule 17: 26S PROTEASE REGULATORY SUBUNIT 7 HOMOLOG

Chain H:

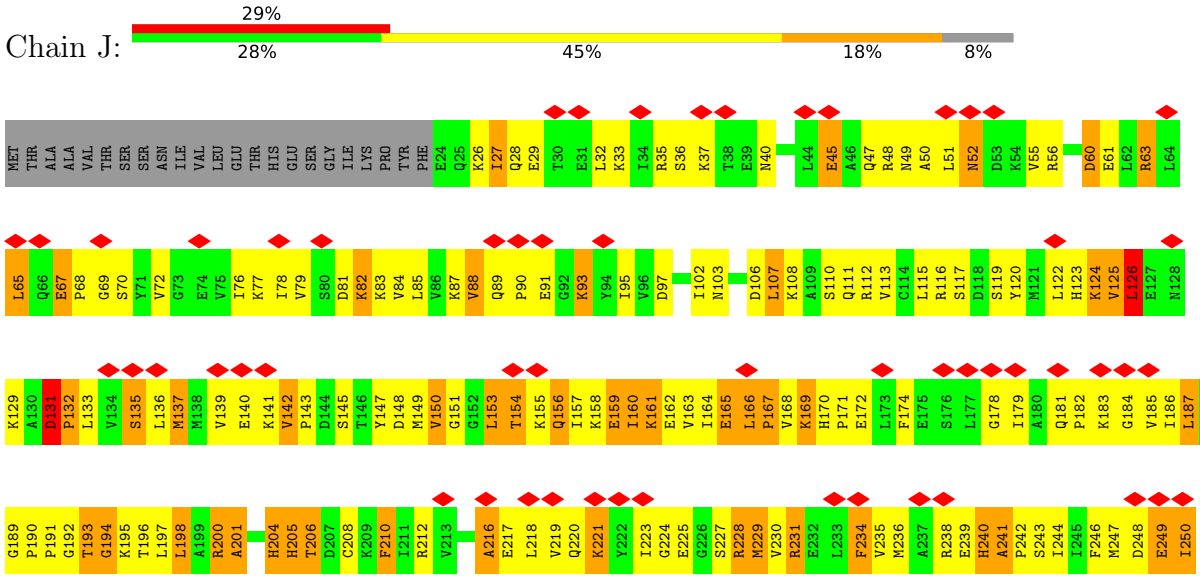


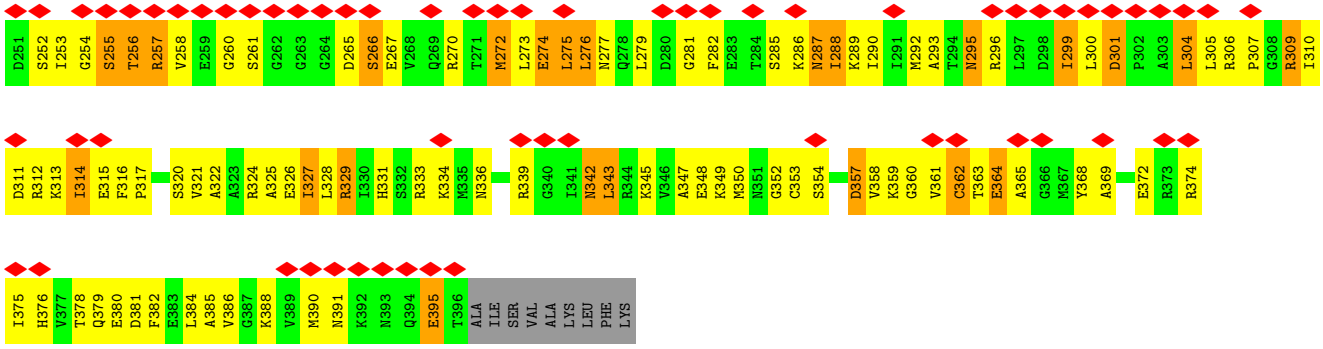


• Molecule 18: 26S PROTEASE REGULATORY SUBUNIT 4 HOMOLOG

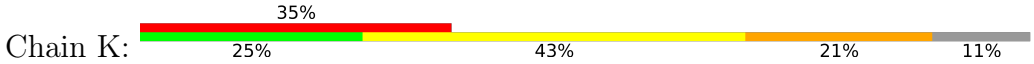


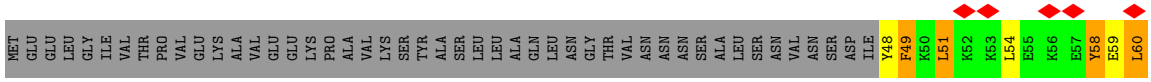
• Molecule 19: 26S PROTEASE REGULATORY SUBUNIT 8 HOMOLOG

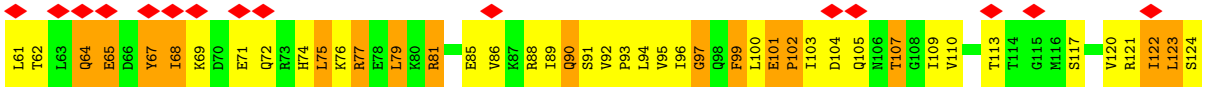


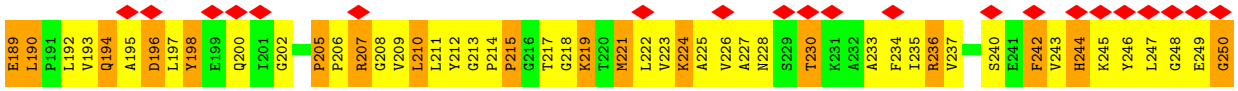


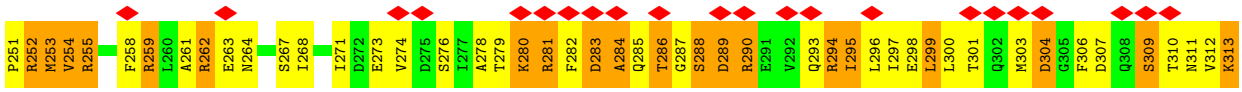
• Molecule 20: 26S PROTEASE REGULATORY SUBUNIT 6B HOMOLOG

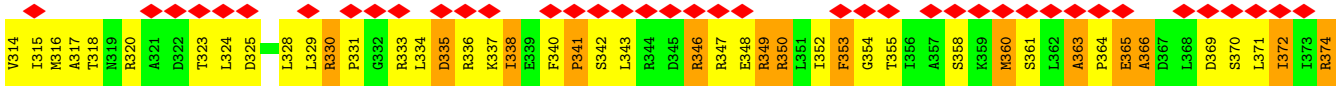


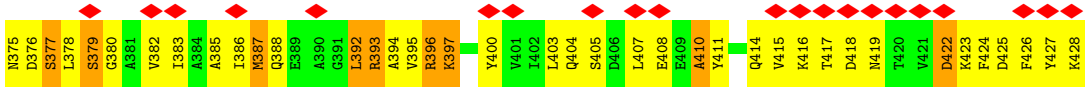




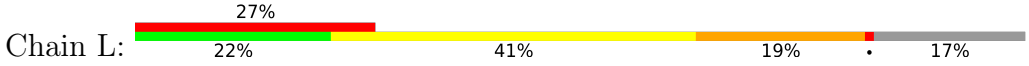


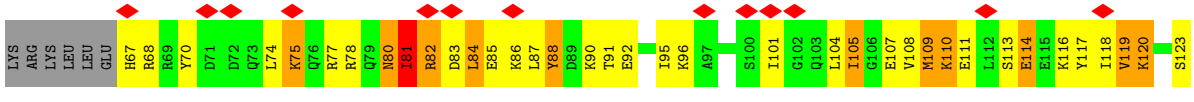


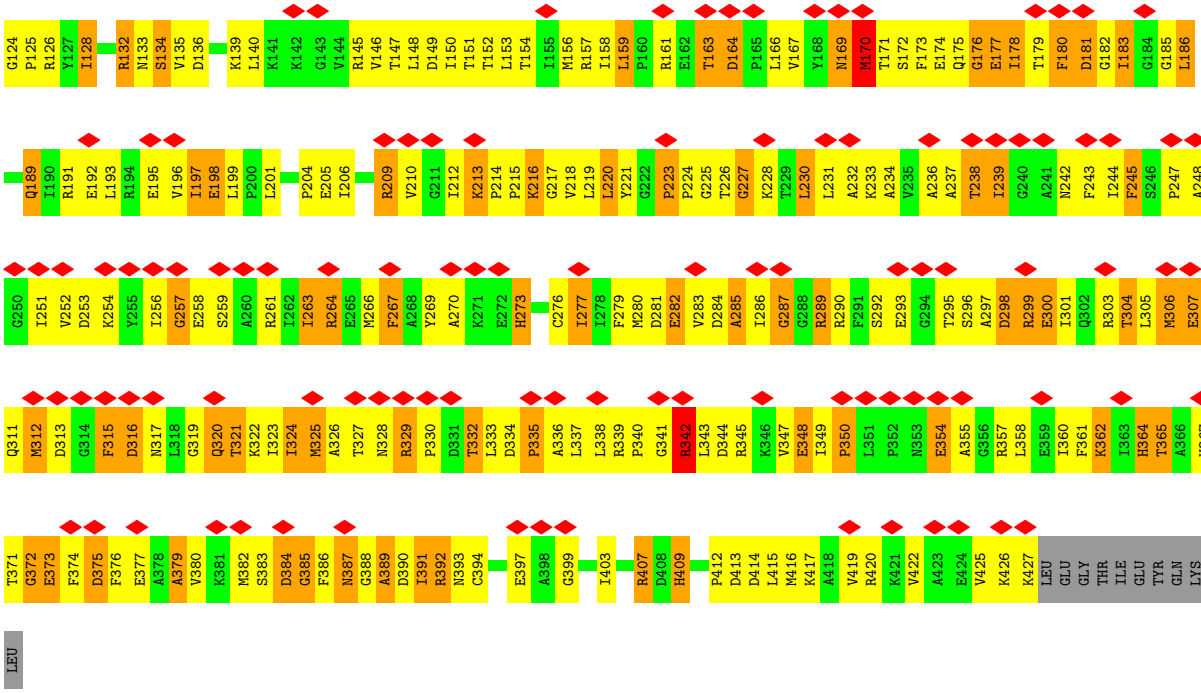




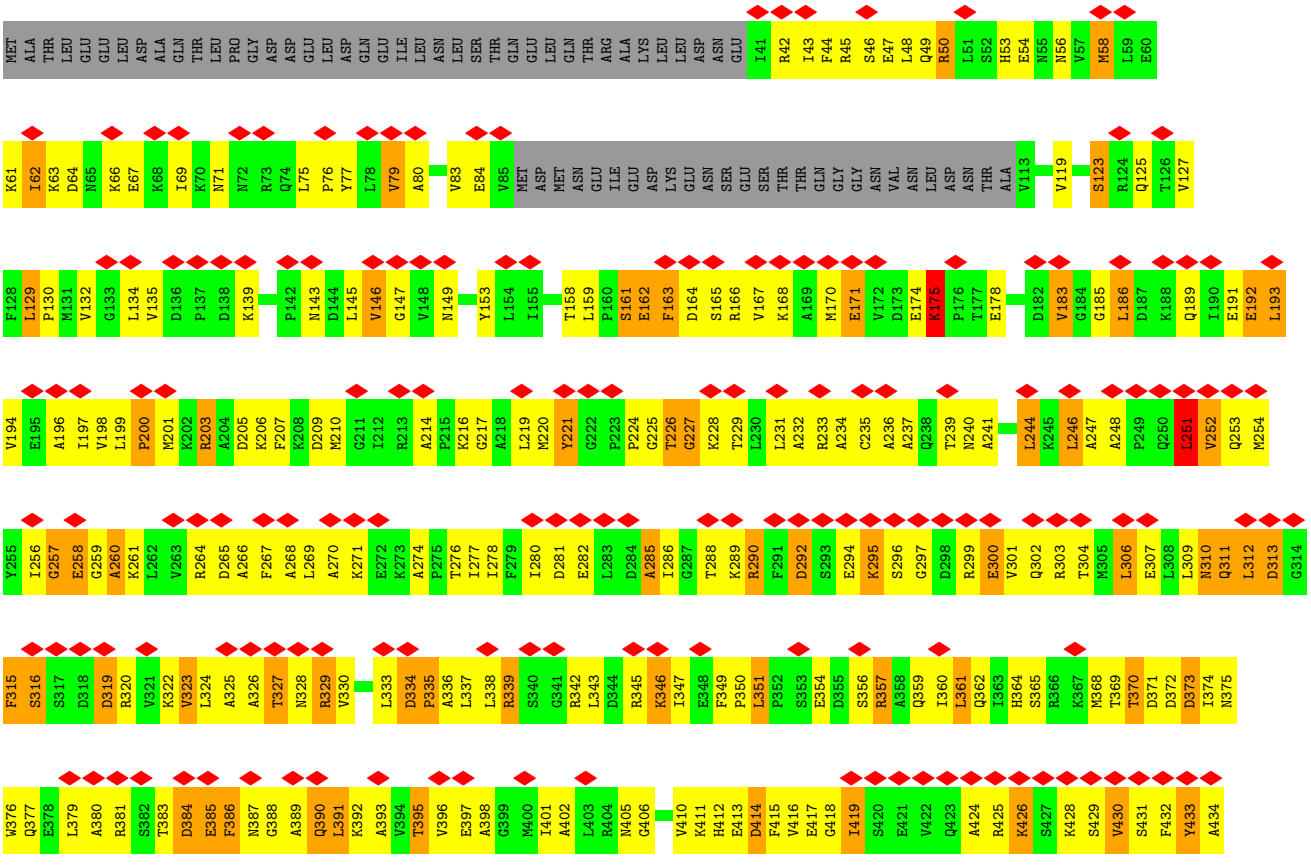
• Molecule 21: 26S PROTEASE SUBUNIT RPT4





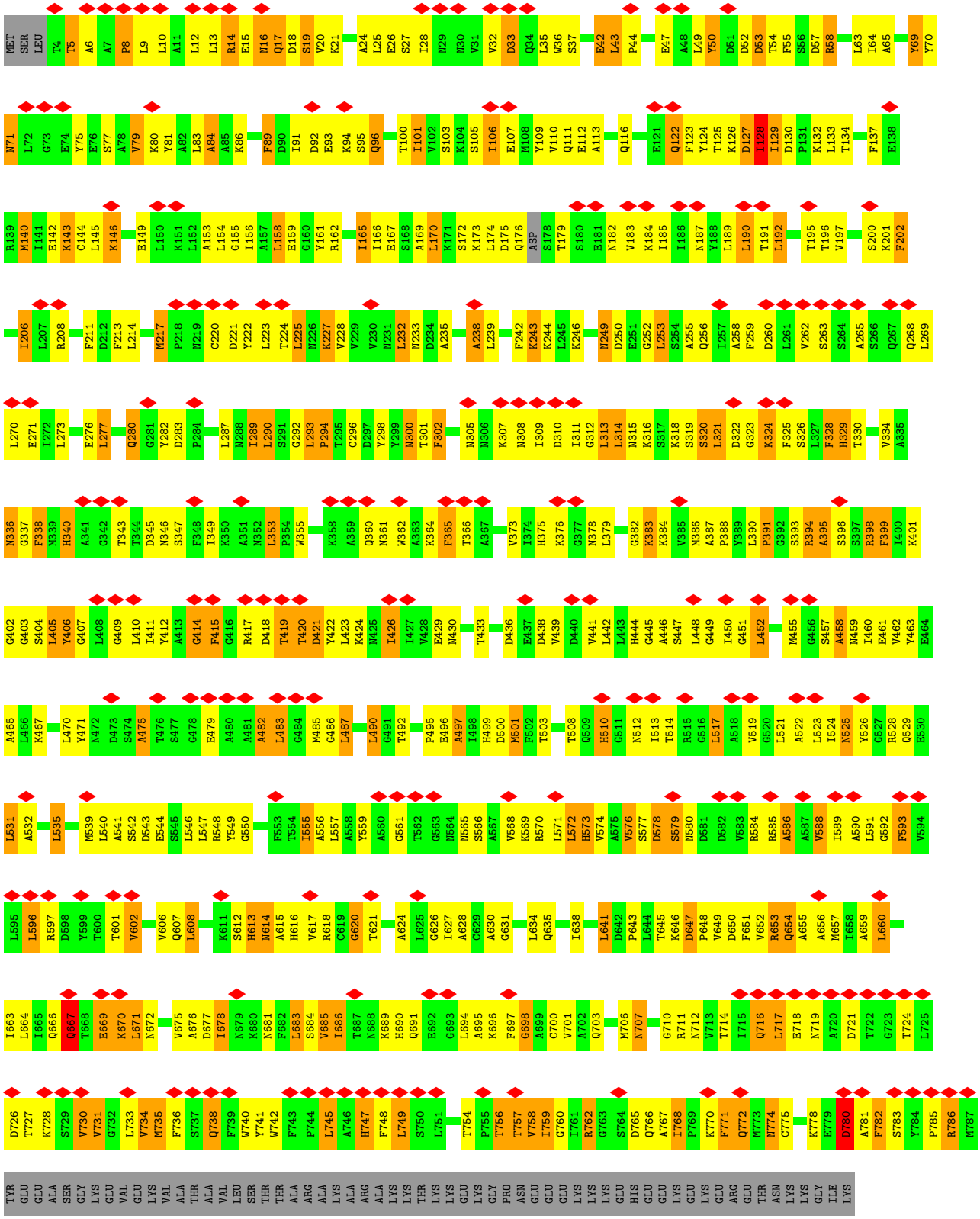


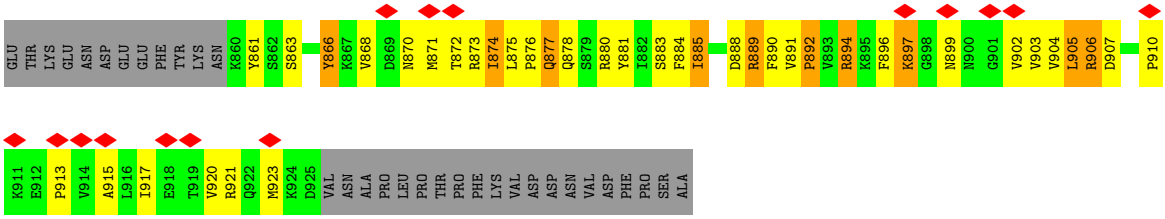
• Molecule 22: 26S PROTEASE REGULATORY SUBUNIT 6A



• Molecule 23: 26S PROTEASOME REGULATORY SUBUNIT RPN2

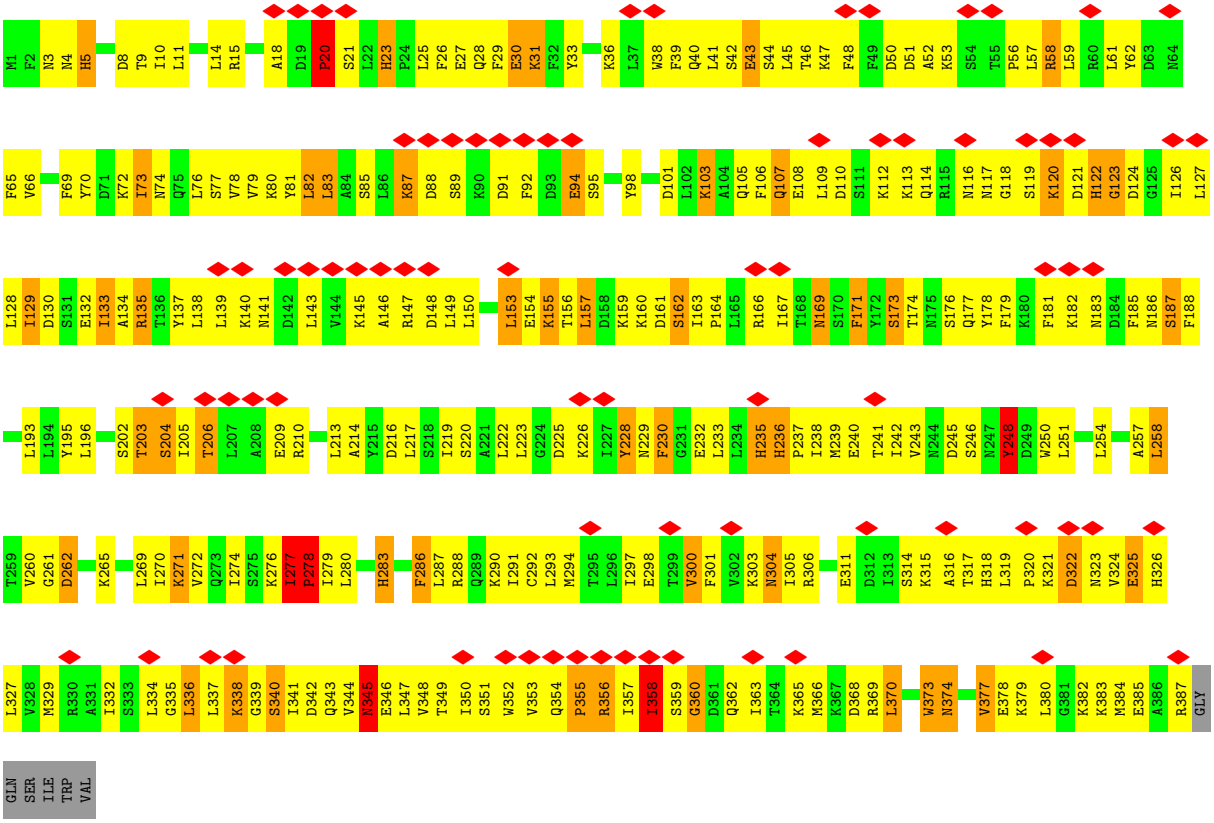
Chain N:





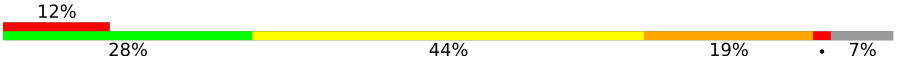
• Molecule 24: 26S PROTEASOME REGULATORY SUBUNIT RPN9

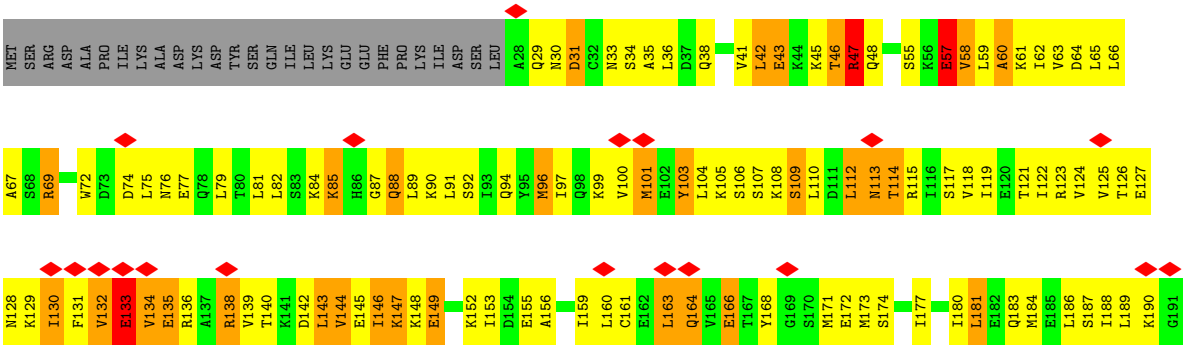
Chain O:

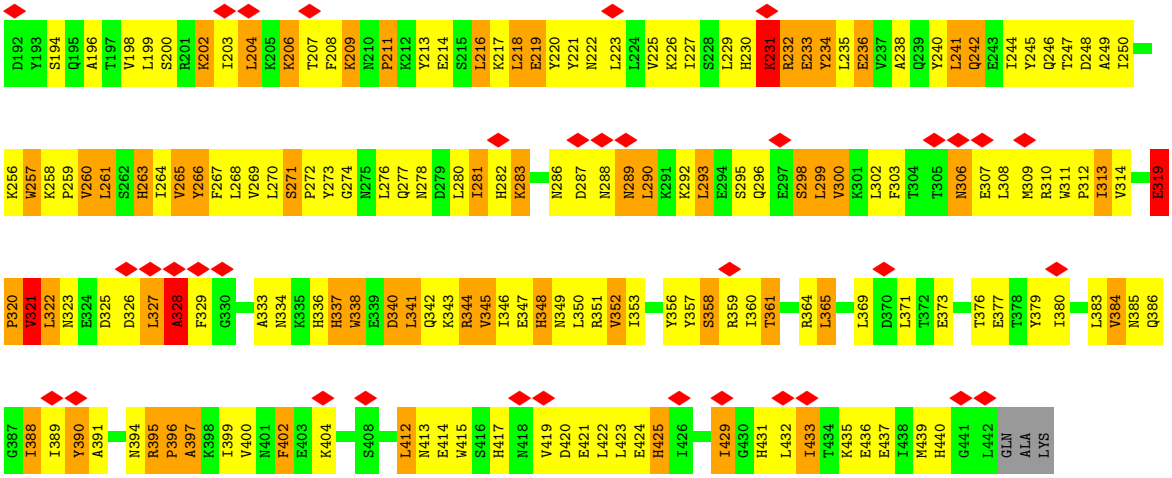


• Molecule 25: 26S PROTEASOME REGULATORY SUBUNIT RPN5

Chain P:

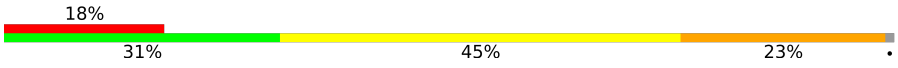


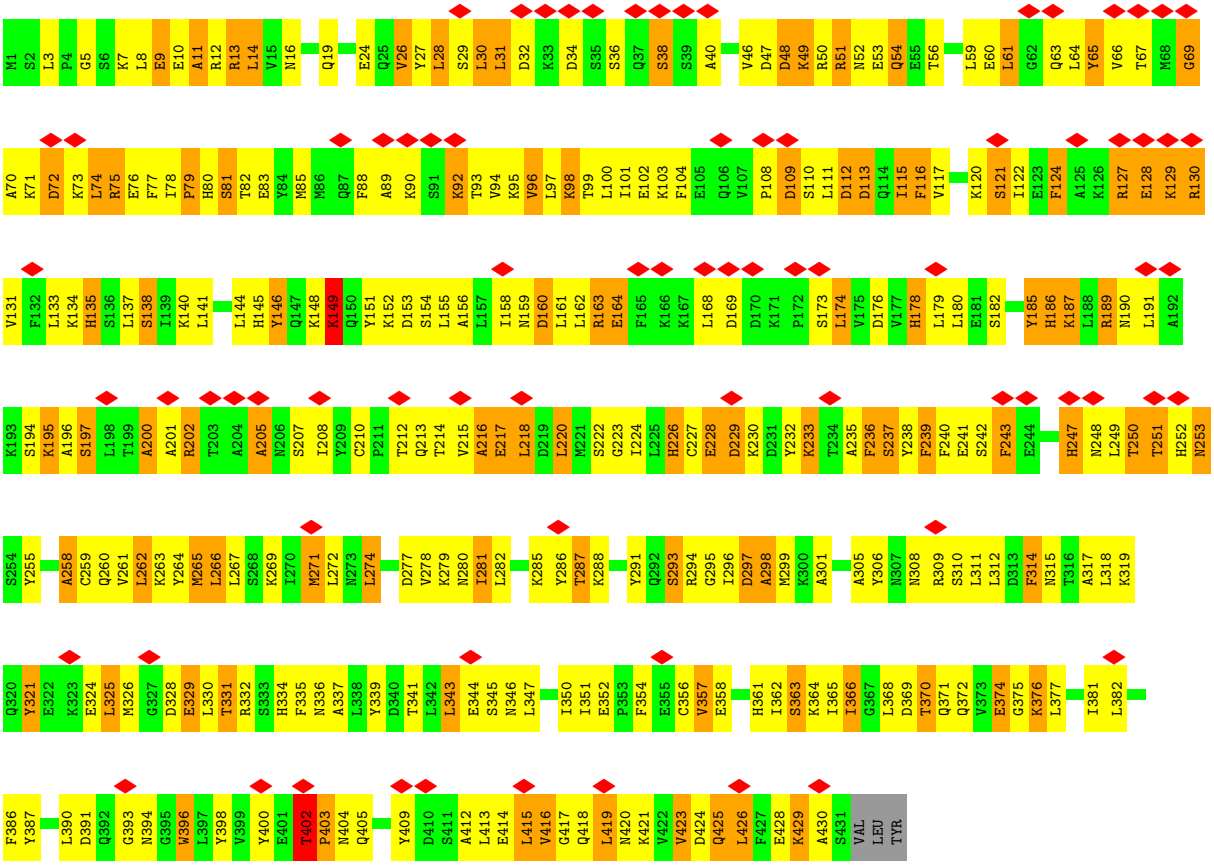




• Molecule 26: 26S PROTEASOME REGULATORY SUBUNIT RPN6

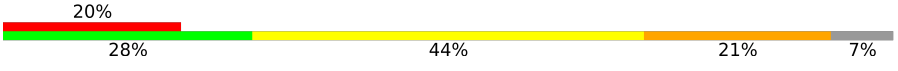
Chain Q:

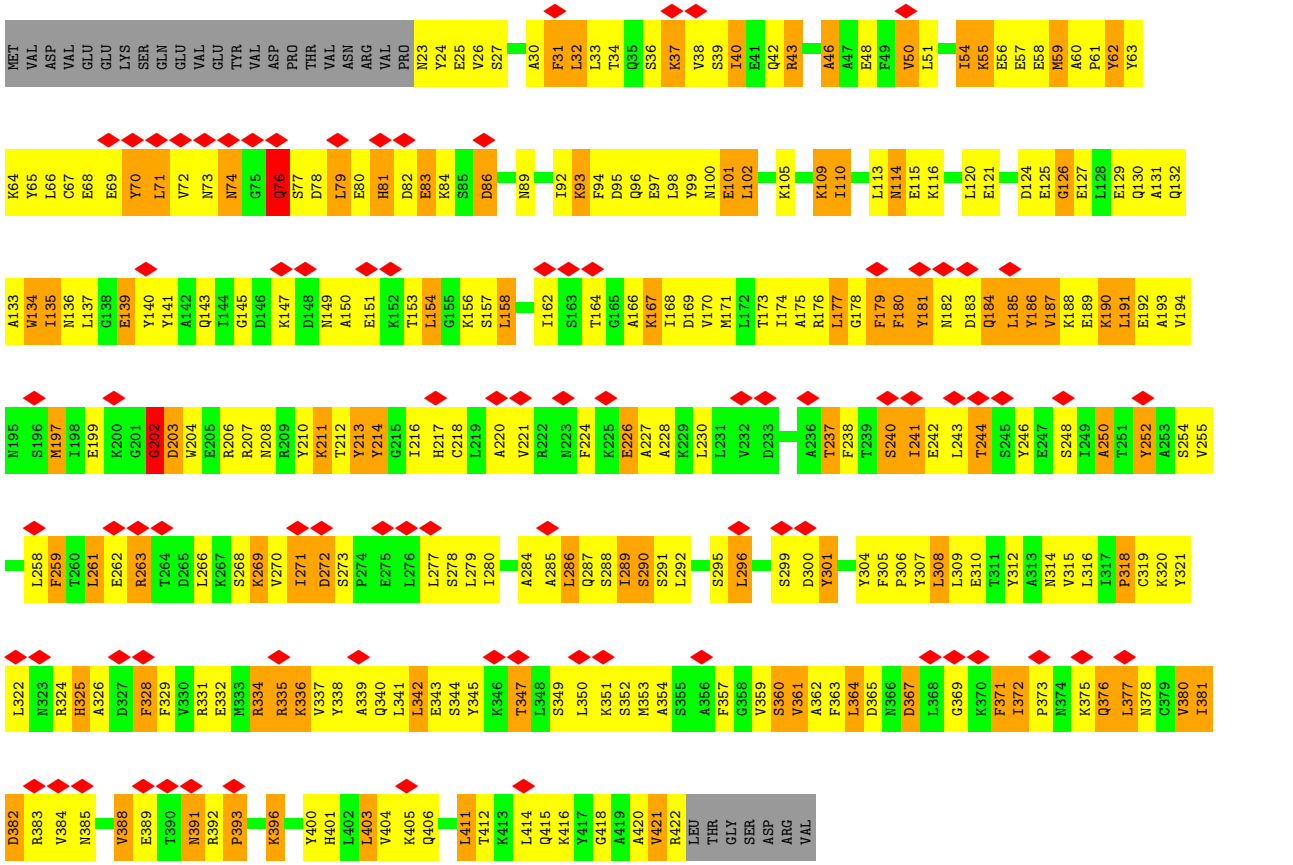




• Molecule 27: 26S PROTEASOME REGULATORY SUBUNIT RPN7

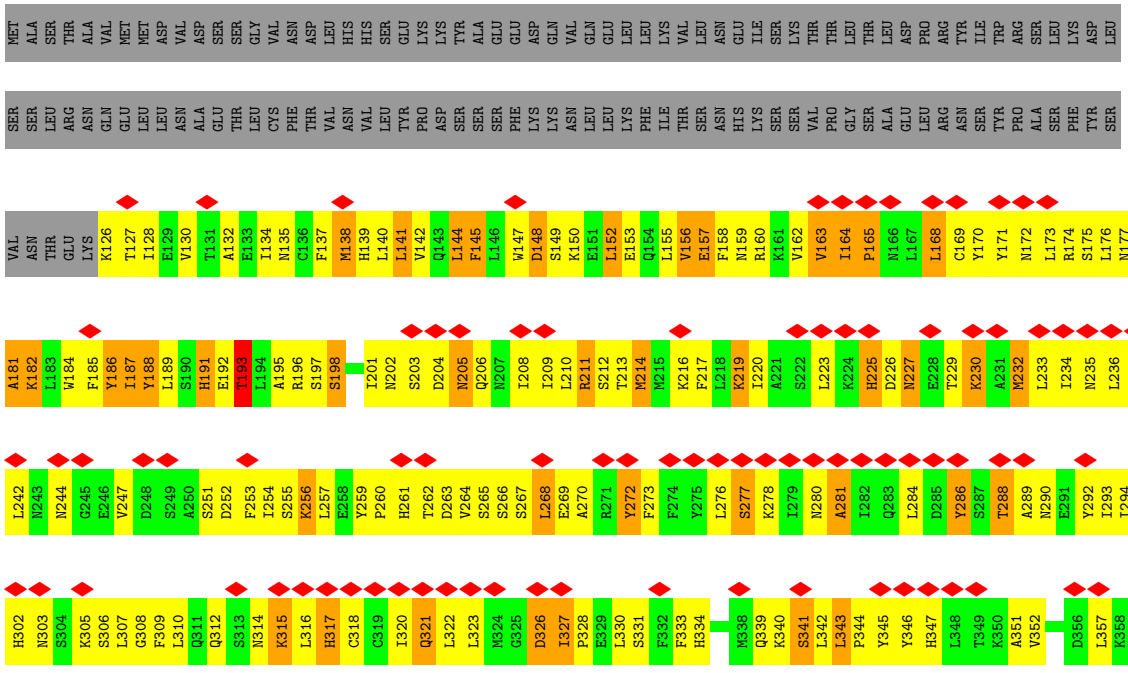
Chain R:

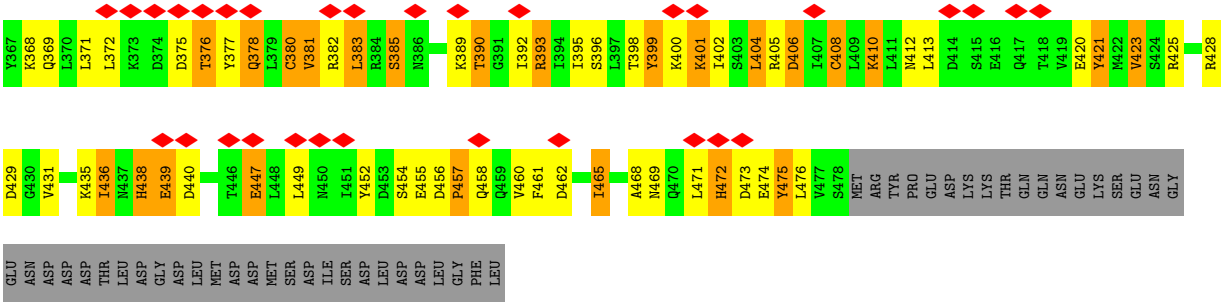




• Molecule 28: 26S PROTEASOME REGULATORY SUBUNIT RPN3

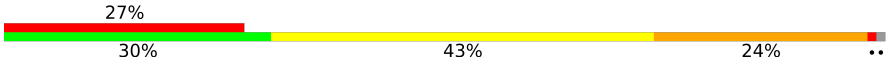
Chain S:

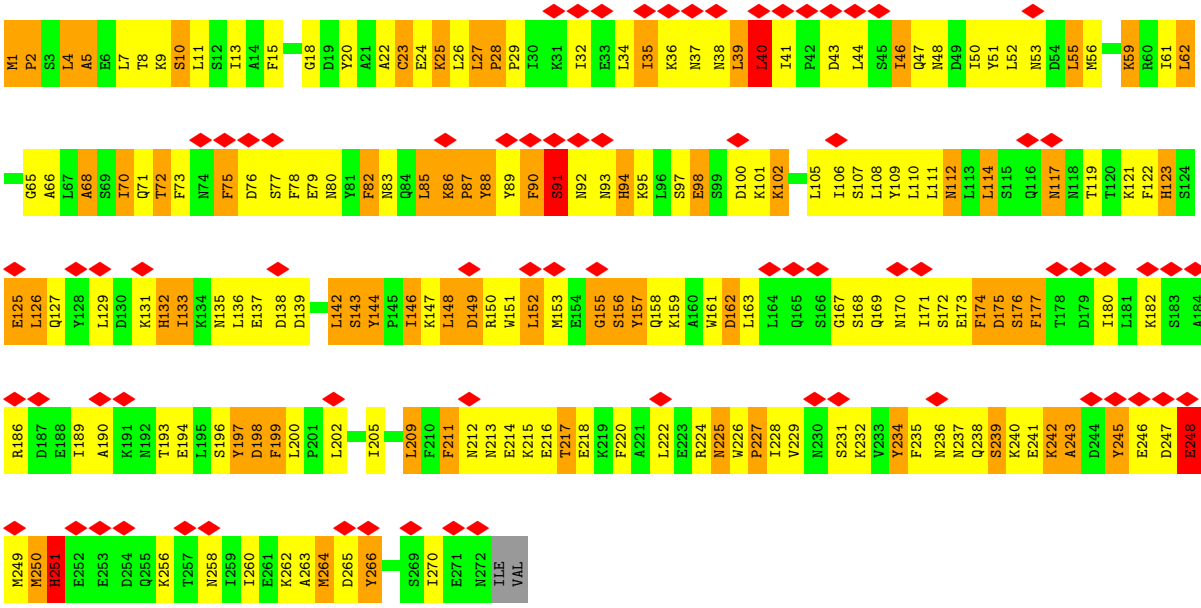




• Molecule 29: 26S PROTEASOME REGULATORY SUBUNIT RPN12

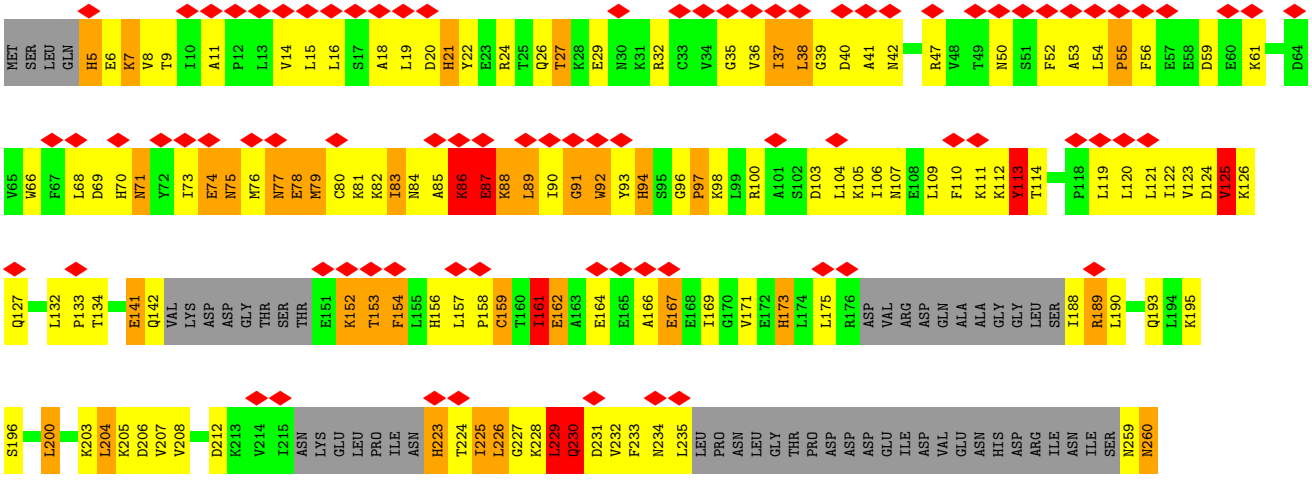
Chain T:

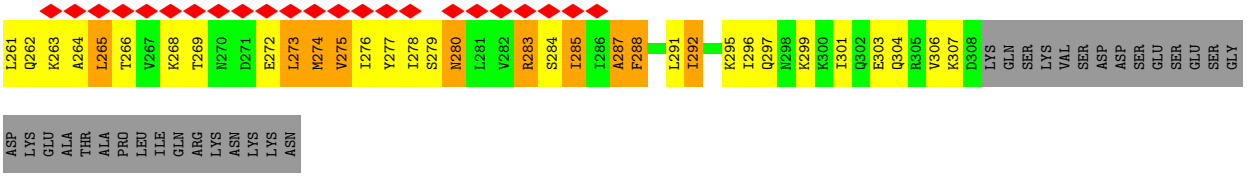




• Molecule 30: 26S PROTEASOME REGULATORY SUBUNIT RPN8

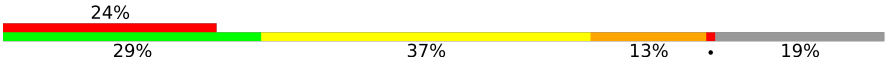
Chain U:

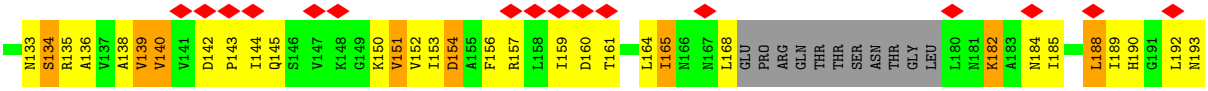


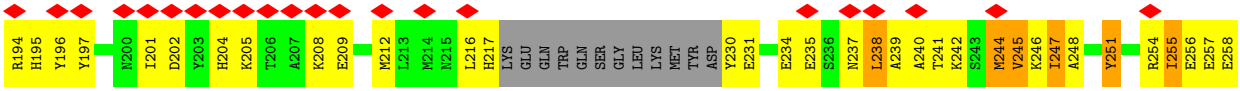


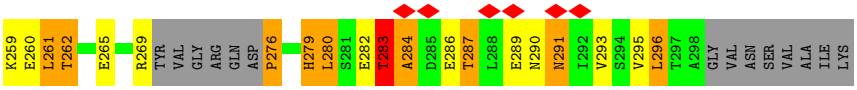
• Molecule 31: 26S PROTEASOME REGULATORY SUBUNIT RPN11

Chain V:



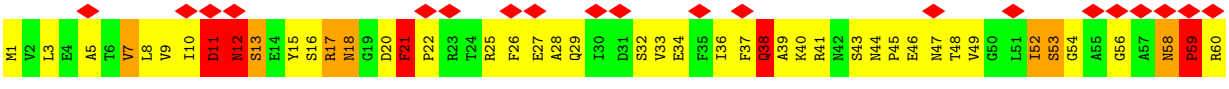


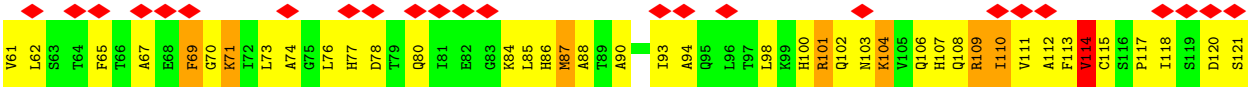


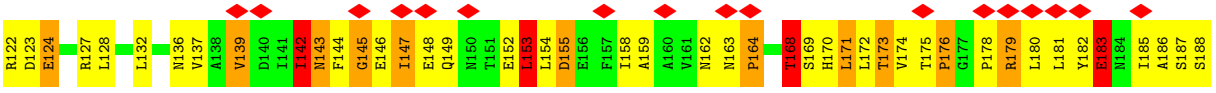


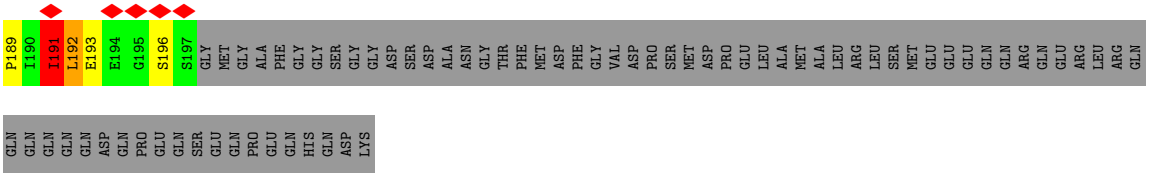
• Molecule 32: 26S PROTEASOME REGULATORY SUBUNIT RPN10

Chain W:



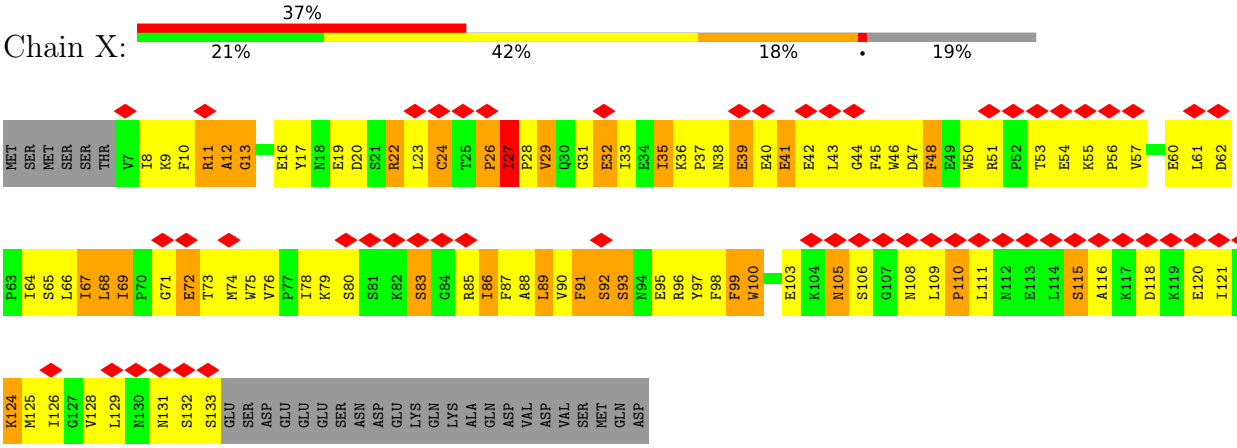






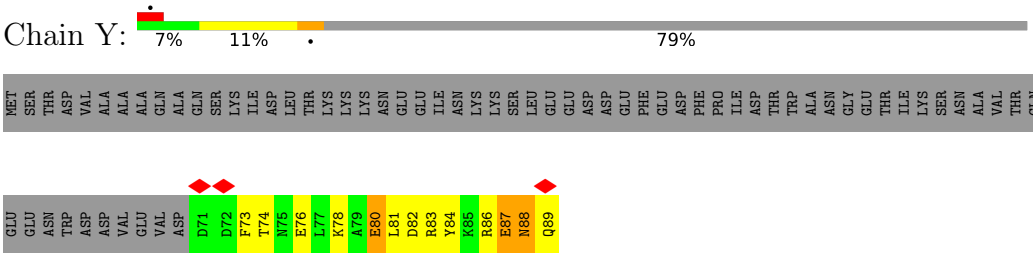
• Molecule 33: 26S PROTEASOME REGULATORY SUBUNIT RPN13

Chain X:



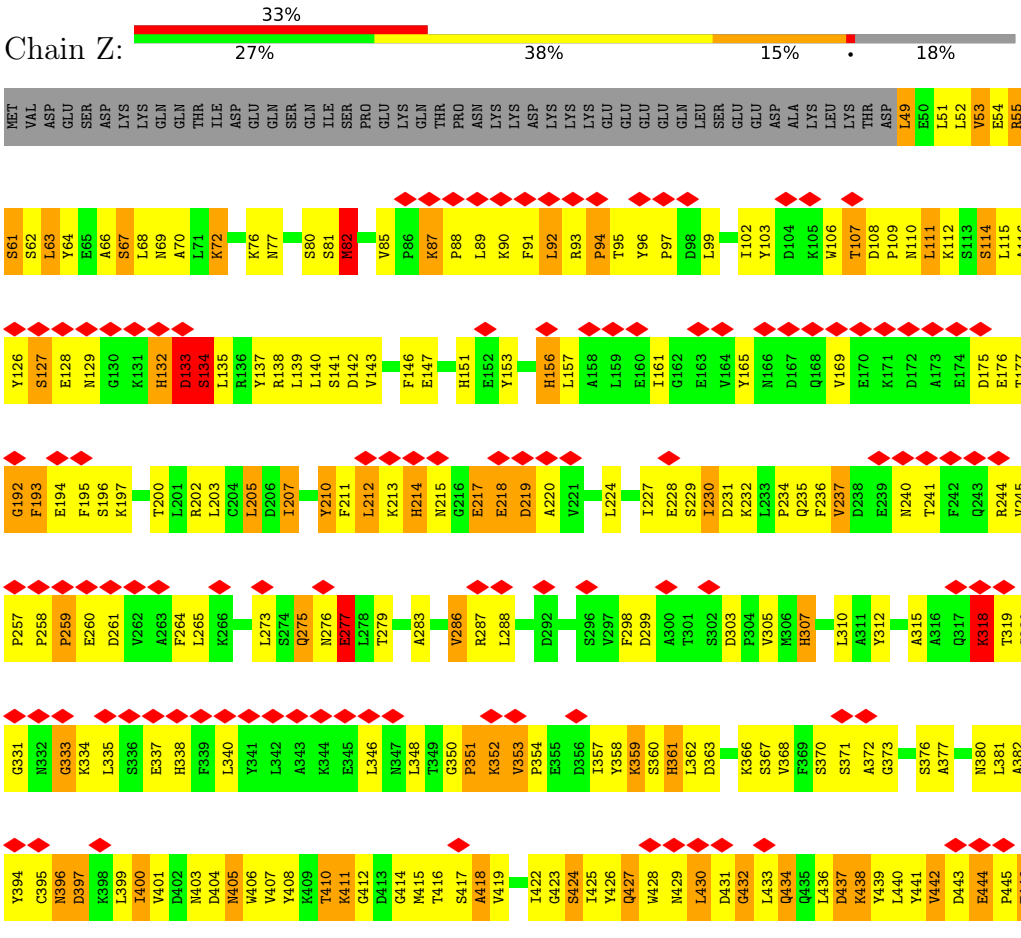
• Molecule 34: 26S PROTEASOME COMPLEX SUBUNIT SEM1

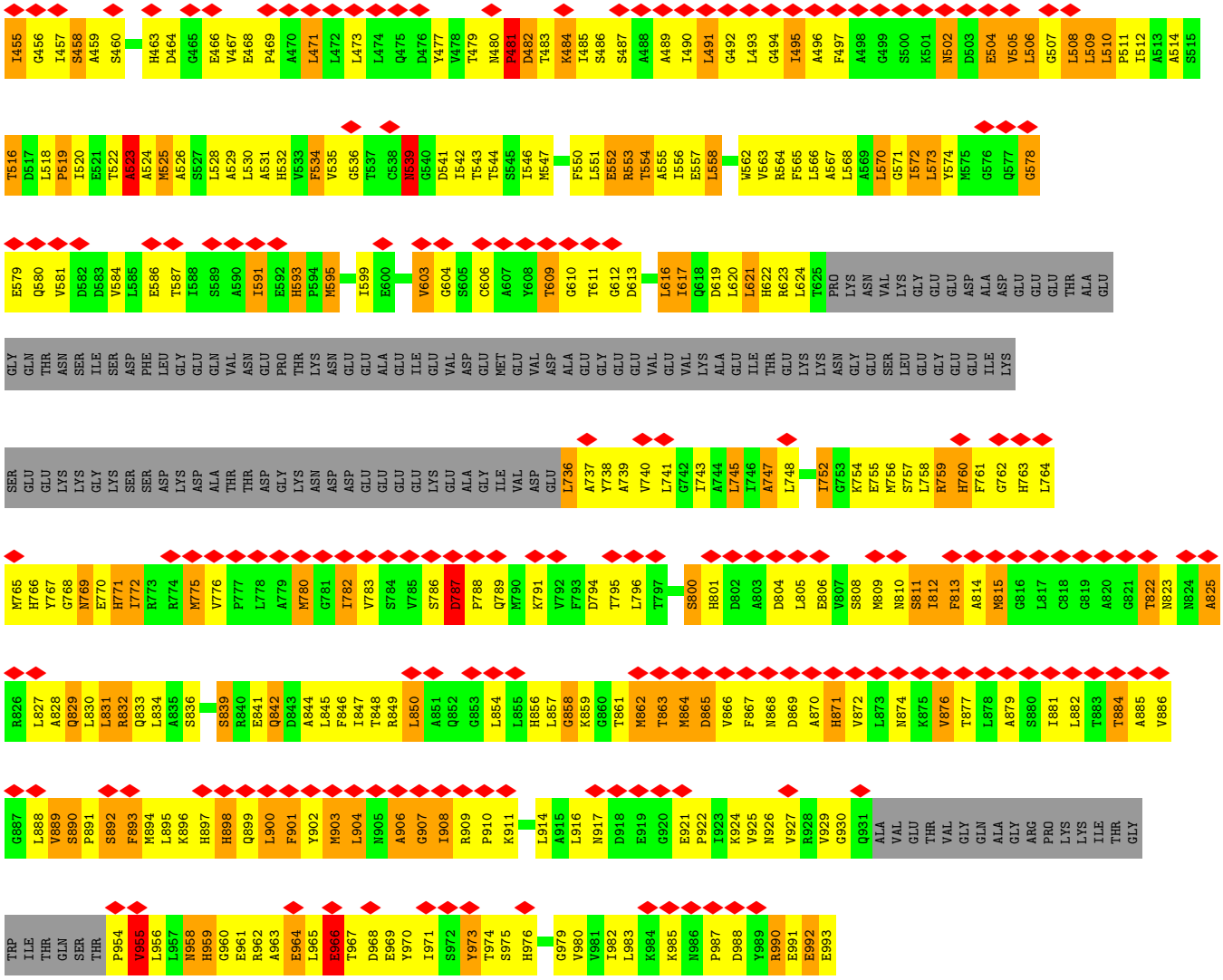
Chain Y:



• Molecule 35: 26S PROTEASOME REGULATORY SUBUNIT RPN1

Chain Z:





4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	53000	Depositor
Resolution determination method	FSC	Depositor
CTF correction method	MICROGRAPH	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	45	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3500	Depositor
Magnification	Not provided	
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	12.581	Depositor
Minimum map value	-11.710	Depositor
Average map value	0.006	Depositor
Map value standard deviation	0.297	Depositor
Recommended contour level	1.17	Depositor
Map size (Å)	557.2, 557.2, 557.2	wwPDB
Map dimensions	280, 280, 280	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.99, 1.99, 1.99	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: GLZ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	1	1.99	52/1605 (3.2%)	1.98	77/2171 (3.5%)
2	2	2.01	52/1723 (3.0%)	2.05	81/2337 (3.5%)
3	3	1.92	51/1611 (3.2%)	2.04	81/2174 (3.7%)
4	4	1.91	49/1613 (3.0%)	2.07	86/2173 (4.0%)
5	5	1.97	57/1683 (3.4%)	2.07	86/2277 (3.8%)
6	6	1.97	69/1795 (3.8%)	1.93	68/2420 (2.8%)
7	7	1.92	61/1855 (3.3%)	1.91	74/2514 (2.9%)
8	8	0.81	3/3093 (0.1%)	0.82	0/4141
9	9	0.61	0/603	1.10	4/811 (0.5%)
10	A	1.97	62/1959 (3.2%)	2.02	85/2652 (3.2%)
11	B	1.99	71/1952 (3.6%)	2.06	107/2642 (4.0%)
12	C	1.88	62/1943 (3.2%)	2.06	106/2629 (4.0%)
13	D	1.85	61/1928 (3.2%)	1.91	77/2610 (3.0%)
14	E	1.99	64/1892 (3.4%)	1.97	80/2549 (3.1%)
15	F	1.99	65/1823 (3.6%)	1.97	74/2463 (3.0%)
16	G	2.01	62/1940 (3.2%)	2.11	109/2619 (4.2%)
17	H	1.71	66/2831 (2.3%)	2.17	165/3808 (4.3%)
18	I	1.89	98/2859 (3.4%)	2.14	191/3853 (5.0%)
19	J	1.92	96/2962 (3.2%)	2.07	158/3975 (4.0%)
20	K	2.01	83/3061 (2.7%)	2.35	199/4129 (4.8%)
21	L	1.89	83/2895 (2.9%)	2.03	149/3892 (3.8%)
22	M	1.91	79/2903 (2.7%)	2.11	170/3909 (4.3%)
23	N	1.85	192/6670 (2.9%)	2.09	357/9023 (4.0%)
24	O	1.19	29/3243 (0.9%)	1.77	95/4374 (2.2%)
25	P	1.91	112/3452 (3.2%)	2.14	219/4657 (4.7%)
26	Q	1.87	115/3527 (3.3%)	2.13	231/4748 (4.9%)
27	R	1.74	77/3272 (2.4%)	2.00	172/4412 (3.9%)
28	S	1.82	76/2945 (2.6%)	2.19	197/3976 (5.0%)
29	T	1.74	48/2279 (2.1%)	2.06	138/3077 (4.5%)
30	U	2.85	51/2087 (2.4%)	2.02	109/2811 (3.9%)
31	V	1.90	48/1969 (2.4%)	2.05	98/2652 (3.7%)
32	W	2.21	29/1556 (1.9%)	2.56	82/2108 (3.9%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
33	X	1.93	32/1058 (3.0%)	2.04	52/1432 (3.6%)
34	Y	1.71	5/169 (3.0%)	1.92	8/223 (3.6%)
35	Z	1.69	148/6403 (2.3%)	2.06	331/8686 (3.8%)
All	All	1.86	2308/85159 (2.7%)	2.04	4316/114927 (3.8%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	1	0	1
6	6	0	1
7	7	0	2
10	A	0	3
13	D	0	1
15	F	0	1
17	H	0	6
19	J	0	1
21	L	0	4
22	M	0	2
23	N	0	7
24	O	0	2
25	P	0	3
26	Q	0	1
27	R	0	2
28	S	0	1
29	T	0	2
30	U	0	6
31	V	0	6
32	W	0	11
33	X	0	3
35	Z	0	7
All	All	0	73

All (2308) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	U	230	GLN	N-CA	109.03	2.86	1.46
32	W	38	GLN	C-N	-60.20	0.46	1.33
20	K	242	PHE	C-N	36.71	1.83	1.33
22	M	257	GLY	C-N	33.79	1.80	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	Z	134	SER	N-CA	25.27	1.78	1.46
32	W	154	LEU	C-N	-21.69	1.05	1.33
21	L	257	GLY	C-N	21.69	1.64	1.33
31	V	282	GLU	C-N	21.50	1.62	1.34
31	V	291	ASN	C-N	20.92	1.60	1.34
31	V	99	GLY	C-N	20.82	1.65	1.33
32	W	153	LEU	C-N	15.84	1.55	1.33
7	7	44	GLY	CA-C	-14.26	1.42	1.52
19	J	187	LEU	CA-C	-13.65	1.36	1.52
22	M	58	MET	C-N	-12.35	1.16	1.33
29	T	65	GLY	CA-C	-11.96	1.38	1.52
8	8	272	MSE	SE-CE	-11.93	1.59	1.95
27	R	102	LEU	CA-C	-11.67	1.38	1.52
19	J	190	PRO	CA-C	11.57	1.59	1.52
21	L	213	LYS	C-N	11.55	1.43	1.33
11	B	135	LEU	CA-C	-11.50	1.39	1.52
2	2	174	ASP	CA-C	-11.11	1.39	1.52
21	L	263	ILE	CA-C	-10.89	1.39	1.52
3	3	113	ALA	CA-C	-10.81	1.38	1.52
20	K	97	GLY	CA-C	-10.72	1.40	1.52
5	5	94	GLY	CA-C	-10.70	1.40	1.52
23	N	451	GLY	CA-C	-10.64	1.40	1.52
35	Z	85	VAL	N-CA	-10.51	1.38	1.46
17	H	305	ILE	CA-C	-10.51	1.38	1.52
12	C	53	THR	CA-C	-10.47	1.39	1.52
33	X	76	VAL	N-CA	-10.38	1.36	1.46
32	W	77	HIS	CA-C	10.36	1.66	1.52
33	X	22	ARG	CA-C	-10.29	1.40	1.53
8	8	344	MSE	SE-CE	-10.25	1.64	1.95
10	A	165	GLY	CA-C	-10.16	1.39	1.52
7	7	222	THR	N-CA	-9.94	1.34	1.46
32	W	188	SER	N-CA	9.92	1.57	1.45
11	B	104	TYR	CA-C	-9.91	1.40	1.53
6	6	194	GLU	CA-C	-9.89	1.40	1.52
16	G	206	ASN	CA-C	-9.84	1.46	1.52
1	1	173	ILE	CA-C	-9.80	1.41	1.52
35	Z	811	SER	CA-C	-9.67	1.40	1.52
20	K	267	SER	CA-C	-9.62	1.40	1.52
5	5	168	ASP	CA-C	-9.61	1.41	1.52
12	C	152	ASN	N-CA	-9.53	1.37	1.45
18	I	145	CYS	N-CA	-9.49	1.33	1.45
1	1	38	HIS	CA-C	-9.43	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	N	444	HIS	CG-CD2	9.41	1.46	1.35
25	P	105	LYS	CA-C	-9.38	1.40	1.52
14	E	99	HIS	CG-CD2	9.38	1.46	1.35
2	2	109	HIS	CG-CD2	9.38	1.46	1.35
1	1	62	HIS	CG-CD2	9.36	1.46	1.35
26	Q	178	HIS	CG-CD2	9.36	1.46	1.35
23	N	671	LEU	CA-C	-9.35	1.41	1.52
16	G	181	HIS	CG-CD2	9.35	1.46	1.35
4	4	40	HIS	CG-CD2	9.35	1.46	1.35
17	H	392	HIS	CG-CD2	9.35	1.46	1.35
11	B	139	HIS	CG-CD2	9.34	1.46	1.35
35	Z	307	HIS	CG-CD2	9.34	1.46	1.35
19	J	240	HIS	CG-CD2	9.34	1.46	1.35
24	O	122	HIS	CG-CD2	9.34	1.46	1.35
35	Z	976	HIS	CG-CD2	9.34	1.46	1.35
23	N	510	HIS	CG-CD2	9.34	1.46	1.35
4	4	145	HIS	CG-CD2	9.34	1.46	1.35
15	F	143	HIS	CG-CD2	9.33	1.46	1.35
18	I	150	HIS	CG-CD2	9.33	1.46	1.35
25	P	230	HIS	CG-CD2	9.33	1.46	1.35
28	S	347	HIS	CG-CD2	9.33	1.46	1.35
35	Z	771	HIS	CG-CD2	9.33	1.46	1.35
27	R	325	HIS	CG-CD2	9.33	1.46	1.35
18	I	151	HIS	CG-CD2	9.33	1.46	1.35
28	S	317	HIS	CG-CD2	9.33	1.46	1.35
6	6	-2	ASN	CA-C	-9.32	1.42	1.52
31	V	204	HIS	CG-CD2	9.32	1.46	1.35
35	Z	871	HIS	CG-CD2	9.32	1.46	1.35
11	B	94	HIS	CG-CD2	9.32	1.46	1.35
25	P	425	HIS	CG-CD2	9.32	1.46	1.35
19	J	331	HIS	CG-CD2	9.32	1.46	1.35
10	A	209	HIS	CG-CD2	9.32	1.46	1.35
26	Q	80	HIS	CG-CD2	9.32	1.46	1.35
3	3	39	HIS	CG-CD2	9.31	1.46	1.35
5	5	66	HIS	CG-CD2	9.31	1.46	1.35
22	M	53	HIS	CG-CD2	9.31	1.46	1.35
24	O	23	HIS	CG-CD2	9.31	1.46	1.35
28	S	438	HIS	CG-CD2	9.31	1.46	1.35
29	T	251	HIS	CG-CD2	9.31	1.46	1.35
18	I	204	HIS	CG-CD2	9.31	1.46	1.35
19	J	170	HIS	CG-CD2	9.31	1.46	1.35
24	O	326	HIS	CG-CD2	9.30	1.46	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	L	409	HIS	CG-CD2	9.30	1.46	1.35
26	Q	247	HIS	CG-CD2	9.30	1.46	1.35
20	K	74	HIS	CG-CD2	9.30	1.46	1.35
1	1	157	HIS	CG-CD2	9.30	1.46	1.35
17	H	95	HIS	CG-CD2	9.30	1.46	1.35
25	P	263	HIS	CG-CD2	9.30	1.46	1.35
13	D	70	HIS	CG-CD2	9.30	1.46	1.35
13	D	96	HIS	CG-CD2	9.30	1.46	1.35
15	F	43	HIS	CG-CD2	9.30	1.46	1.35
20	K	236	ARG	CA-C	-9.30	1.41	1.52
19	J	376	HIS	CG-CD2	9.30	1.46	1.35
30	U	21	HIS	CG-CD2	9.29	1.46	1.35
35	Z	622	HIS	CG-CD2	9.30	1.46	1.35
24	O	235	HIS	CG-CD2	9.29	1.46	1.35
29	T	123	HIS	CG-CD2	9.29	1.46	1.35
35	Z	132	HIS	CG-CD2	9.29	1.46	1.35
4	4	132	HIS	CG-CD2	9.29	1.46	1.35
31	V	111	HIS	CG-CD2	9.29	1.46	1.35
35	Z	338	HIS	CG-CD2	9.29	1.46	1.35
35	Z	763	HIS	CG-CD2	9.29	1.46	1.35
16	G	122	HIS	CG-CD2	9.29	1.46	1.35
19	J	204	HIS	CG-CD2	9.29	1.46	1.35
23	N	340	HIS	CG-CD2	9.29	1.46	1.35
35	Z	959	HIS	CG-CD2	9.29	1.46	1.35
2	2	116	HIS	CG-CD2	9.28	1.46	1.35
10	A	193	HIS	CG-CD2	9.28	1.46	1.35
16	G	227	HIS	CG-CD2	9.28	1.46	1.35
24	O	5	HIS	CG-CD2	9.28	1.46	1.35
27	R	217	HIS	CG-CD2	9.28	1.46	1.35
30	U	156	HIS	CG-CD2	9.28	1.46	1.35
6	6	86	HIS	CG-CD2	9.28	1.46	1.35
29	T	94	HIS	CG-CD2	9.28	1.46	1.35
22	M	412	HIS	CG-CD2	9.28	1.46	1.35
14	E	91	HIS	CG-CD2	9.27	1.46	1.35
16	G	182	HIS	CG-CD2	9.27	1.46	1.35
24	O	318	HIS	CG-CD2	9.27	1.46	1.35
1	1	120	HIS	CG-CD2	9.27	1.46	1.35
3	3	36	HIS	CG-CD2	9.27	1.46	1.35
26	Q	334	HIS	CG-CD2	9.27	1.46	1.35
26	Q	361	HIS	CG-CD2	9.27	1.46	1.35
31	V	195	HIS	CG-CD2	9.27	1.46	1.35
2	2	114	HIS	CG-CD2	9.27	1.46	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	M	364	HIS	CG-CD2	9.27	1.46	1.35
23	N	616	HIS	CG-CD2	9.27	1.46	1.35
26	Q	145	HIS	CG-CD2	9.27	1.46	1.35
35	Z	760	HIS	CG-CD2	9.27	1.46	1.35
28	S	139	HIS	CG-CD2	9.26	1.46	1.35
31	V	190	HIS	CG-CD2	9.26	1.46	1.35
23	N	329	HIS	CG-CD2	9.26	1.46	1.35
26	Q	252	HIS	CG-CD2	9.26	1.46	1.35
30	U	173	HIS	CG-CD2	9.26	1.46	1.35
30	U	223	HIS	CG-CD2	9.26	1.46	1.35
35	Z	532	HIS	CG-CD2	9.26	1.46	1.35
2	2	86	HIS	CG-CD2	9.26	1.46	1.35
14	E	188	HIS	CG-CD2	9.26	1.46	1.35
16	G	146	HIS	CG-CD2	9.26	1.46	1.35
25	P	417	HIS	CG-CD2	9.26	1.46	1.35
27	R	82	ASP	CA-C	-9.26	1.41	1.52
16	G	72	HIS	CG-CD2	9.26	1.46	1.35
26	Q	186	HIS	CG-CD2	9.26	1.46	1.35
27	R	401	HIS	CG-CD2	9.26	1.46	1.35
30	U	5	HIS	CG-CD2	9.26	1.46	1.35
19	J	205	HIS	CG-CD2	9.25	1.46	1.35
35	Z	801	HIS	CG-CD2	9.25	1.46	1.35
21	L	364	HIS	CG-CD2	9.25	1.46	1.35
28	S	191	HIS	CG-CD2	9.25	1.46	1.35
14	E	73	HIS	CG-CD2	9.25	1.46	1.35
16	G	203	HIS	CG-CD2	9.25	1.46	1.35
1	1	38	HIS	CG-CD2	9.25	1.46	1.35
18	I	117	HIS	CG-CD2	9.25	1.46	1.35
24	O	283	HIS	CG-CD2	9.25	1.46	1.35
25	P	336	HIS	CG-CD2	9.25	1.46	1.35
26	Q	226	HIS	CG-CD2	9.25	1.46	1.35
14	E	157	HIS	CG-CD2	9.24	1.46	1.35
35	Z	593	HIS	CG-CD2	9.24	1.46	1.35
2	2	141	HIS	CG-CD2	9.24	1.46	1.35
25	P	440	HIS	CG-CD2	9.24	1.46	1.35
35	Z	856	HIS	CG-CD2	9.24	1.46	1.35
10	A	185	HIS	CG-CD2	9.24	1.46	1.35
15	F	69	HIS	CG-CD2	9.24	1.46	1.35
35	Z	898	HIS	CG-CD2	9.24	1.46	1.35
13	D	16	HIS	CG-CD2	9.24	1.46	1.35
30	U	94	HIS	CG-CD2	9.24	1.46	1.35
32	W	77	HIS	CG-CD2	9.24	1.46	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	Z	214	HIS	CG-CD2	9.24	1.46	1.35
35	Z	897	HIS	CG-CD2	9.24	1.46	1.35
6	6	186	HIS	CG-CD2	9.24	1.46	1.35
23	N	690	HIS	CG-CD2	9.24	1.46	1.35
26	Q	135	HIS	CG-CD2	9.24	1.46	1.35
28	S	225	HIS	CG-CD2	9.24	1.46	1.35
20	K	244	HIS	CG-CD2	9.23	1.46	1.35
23	N	573	HIS	CG-CD2	9.23	1.46	1.35
25	P	431	HIS	CG-CD2	9.23	1.46	1.35
27	R	81	HIS	CG-CD2	9.23	1.46	1.35
20	K	142	HIS	CG-CD2	9.23	1.46	1.35
23	N	375	HIS	CG-CD2	9.23	1.46	1.35
23	N	499	HIS	CG-CD2	9.23	1.46	1.35
2	2	66	HIS	CG-CD2	9.23	1.46	1.35
35	Z	766	HIS	CG-CD2	9.23	1.46	1.35
6	6	70	HIS	CG-CD2	9.23	1.46	1.35
7	7	141	HIS	CG-CD2	9.23	1.46	1.35
10	A	15	HIS	CG-CD2	9.23	1.46	1.35
19	J	123	HIS	CG-CD2	9.23	1.46	1.35
5	5	179	HIS	CG-CD2	9.22	1.46	1.35
21	L	273	HIS	CG-CD2	9.22	1.46	1.35
2	2	35	HIS	CG-CD2	9.22	1.46	1.35
35	Z	361	HIS	CG-CD2	9.22	1.46	1.35
28	S	472	HIS	CG-CD2	9.22	1.46	1.35
14	E	147	HIS	CG-CD2	9.21	1.46	1.35
25	P	337	HIS	CG-CD2	9.21	1.46	1.35
12	C	94	HIS	CG-CD2	9.21	1.46	1.35
21	L	67	HIS	CG-CD2	9.21	1.46	1.35
29	T	132	HIS	CG-CD2	9.21	1.46	1.35
6	6	67	HIS	CG-CD2	9.21	1.46	1.35
35	Z	151	HIS	CG-CD2	9.21	1.46	1.35
35	Z	463	HIS	CG-CD2	9.21	1.46	1.35
32	W	107	HIS	CG-CD2	9.21	1.46	1.35
15	F	110	HIS	CG-CD2	9.21	1.46	1.35
25	P	282	HIS	CG-CD2	9.20	1.46	1.35
2	2	93	HIS	CG-CD2	9.20	1.46	1.35
13	D	159	TRP	N-CA	-9.20	1.34	1.46
4	4	146	HIS	CG-CD2	9.20	1.46	1.35
23	N	747	HIS	CG-CD2	9.20	1.46	1.35
26	Q	127	ARG	C-N	9.20	1.46	1.33
5	5	166	HIS	CG-CD2	9.20	1.46	1.35
23	N	613	HIS	CG-CD2	9.20	1.46	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	F	149	PRO	N-CD	9.19	1.60	1.47
16	G	86	HIS	CG-CD2	9.19	1.46	1.35
24	O	236	HIS	CG-CD2	9.19	1.46	1.35
25	P	348	HIS	CG-CD2	9.19	1.46	1.35
31	V	217	HIS	CG-CD2	9.19	1.46	1.35
20	K	140	HIS	CG-CD2	9.19	1.46	1.35
5	5	188	HIS	CG-CD2	9.18	1.46	1.35
28	S	334	HIS	CG-CD2	9.18	1.46	1.35
11	B	190	HIS	CG-CD2	9.18	1.46	1.35
31	V	40	HIS	CG-CD2	9.18	1.46	1.35
7	7	54	HIS	CG-CD2	9.18	1.46	1.35
18	I	365	HIS	CG-CD2	9.17	1.46	1.35
14	E	42	THR	N-CA	-9.17	1.35	1.46
6	6	108	ASP	CA-C	9.17	1.64	1.52
6	6	99	HIS	CG-CD2	9.16	1.46	1.35
28	S	302	HIS	CG-CD2	9.16	1.46	1.35
35	Z	156	HIS	CG-CD2	9.16	1.46	1.35
32	W	100	HIS	CG-CD2	9.16	1.46	1.35
12	C	31	HIS	CG-CD2	9.15	1.46	1.35
28	S	261	HIS	CG-CD2	9.14	1.46	1.35
12	C	125	HIS	CG-CD2	9.14	1.45	1.35
5	5	191	HIS	CG-CD2	9.10	1.45	1.35
22	M	146	VAL	C-N	9.03	1.38	1.33
23	N	762	ARG	CD-NE	9.03	1.58	1.46
26	Q	207	SER	C-N	9.01	1.45	1.33
17	H	289	ARG	CA-C	-8.98	1.41	1.52
21	L	244	ILE	CA-C	-8.98	1.41	1.52
35	Z	580	GLN	C-N	8.96	1.43	1.34
16	G	148	TYR	C-N	8.95	1.46	1.33
15	F	85	SER	CA-C	8.94	1.64	1.52
21	L	238	THR	C-N	8.94	1.43	1.34
23	N	646	LYS	N-CA	-8.92	1.36	1.46
18	I	250	SER	N-CA	-8.88	1.35	1.46
3	3	175	GLY	C-N	8.87	1.44	1.33
28	S	326	ASP	C-N	8.87	1.39	1.33
29	T	28	PRO	N-CD	8.85	1.60	1.47
6	6	118	PRO	C-N	8.83	1.43	1.33
27	R	214	TYR	CA-C	-8.83	1.41	1.52
3	3	96	VAL	N-CA	-8.82	1.36	1.46
20	K	161	MET	C-N	8.82	1.39	1.33
14	E	67	ILE	CA-C	-8.82	1.41	1.52
15	F	77	LEU	N-CA	-8.78	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
28	S	413	LEU	CA-C	-8.77	1.41	1.52
35	Z	279	THR	CA-C	-8.76	1.41	1.52
11	B	38	LYS	CA-C	-8.76	1.42	1.52
29	T	175	ASP	CA-C	-8.75	1.41	1.52
31	V	290	ASN	C-N	8.75	1.45	1.33
28	S	405	ARG	CA-C	-8.75	1.41	1.52
19	J	150	VAL	C-N	8.74	1.46	1.33
2	2	137	VAL	C-N	8.72	1.45	1.33
28	S	203	SER	CA-C	-8.72	1.42	1.52
20	K	340	PHE	CA-C	8.71	1.62	1.52
20	K	194	GLN	CA-C	-8.69	1.43	1.52
35	Z	134	SER	CA-C	8.67	1.64	1.52
5	5	9	GLN	CA-C	-8.66	1.41	1.52
2	2	6	VAL	CA-C	-8.66	1.42	1.52
23	N	462	VAL	N-CA	-8.66	1.35	1.46
11	B	127	VAL	CA-C	-8.65	1.42	1.52
11	B	37	ILE	N-CA	-8.64	1.36	1.46
27	R	189	GLU	C-N	8.63	1.45	1.33
10	A	66	PRO	N-CD	8.61	1.59	1.47
23	N	14	ARG	CA-C	-8.58	1.40	1.52
33	X	11	ARG	CA-C	-8.58	1.41	1.52
1	1	26	ILE	CA-C	-8.57	1.44	1.53
11	B	217	GLU	CA-C	-8.54	1.42	1.52
14	E	123	PHE	CA-C	-8.54	1.41	1.52
10	A	40	ILE	CA-C	-8.54	1.42	1.52
14	E	12	VAL	CA-C	-8.53	1.42	1.52
21	L	304	THR	CA-C	-8.53	1.42	1.52
22	M	426	LYS	CA-C	-8.53	1.41	1.52
14	E	171	ALA	CA-C	-8.52	1.42	1.52
7	7	35	ILE	N-CA	-8.49	1.39	1.46
4	4	172	PRO	N-CD	8.48	1.59	1.47
19	J	216	ALA	C-O	-8.48	1.14	1.24
11	B	136	ILE	CA-C	-8.46	1.41	1.52
33	X	91	PHE	N-CA	-8.44	1.36	1.46
15	F	146	GLU	CA-C	-8.43	1.42	1.52
16	G	247	ASN	N-CA	-8.43	1.36	1.46
1	1	35	THR	CA-C	-8.40	1.42	1.52
12	C	232	PRO	CA-C	-8.40	1.40	1.52
16	G	176	GLU	C-N	8.40	1.44	1.33
33	X	78	ILE	N-CA	-8.39	1.37	1.46
15	F	188	GLU	CA-C	-8.39	1.42	1.52
21	L	264	ARG	C-N	8.39	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	N	184	LYS	C-N	8.39	1.44	1.33
31	V	55	GLY	CA-C	-8.38	1.40	1.51
1	1	192	GLU	CA-C	-8.38	1.44	1.53
18	I	320	GLY	C-N	8.36	1.45	1.33
13	D	243	GLN	N-CA	-8.34	1.36	1.46
23	N	697	PHE	C-N	8.34	1.43	1.34
31	V	160	ASP	CA-C	-8.30	1.42	1.52
13	D	45	GLY	CA-C	-8.28	1.46	1.52
23	N	716	GLN	CA-C	-8.27	1.42	1.52
7	7	77	GLU	CA-C	-8.27	1.41	1.52
16	G	139	GLY	N-CA	-8.27	1.36	1.45
25	P	31	ASP	CA-CB	8.27	1.66	1.53
20	K	149	ILE	N-CA	-8.26	1.36	1.46
1	1	50	ALA	C-N	8.23	1.44	1.33
15	F	108	ALA	C-N	8.22	1.44	1.33
23	N	461	GLU	N-CA	-8.22	1.36	1.46
3	3	147	PRO	N-CD	8.21	1.59	1.47
26	Q	375	GLY	CA-C	-8.15	1.42	1.52
25	P	187	SER	CA-C	-8.14	1.42	1.52
7	7	78	ALA	CA-C	-8.13	1.42	1.52
20	K	387	MET	C-O	-8.12	1.14	1.24
22	M	276	THR	C-N	8.11	1.43	1.33
23	N	906	ARG	CD-NE	8.09	1.57	1.46
8	8	114	MSE	SE-CE	-8.08	1.71	1.95
12	C	15	PRO	CA-C	-8.04	1.42	1.53
16	G	48	ALA	CA-C	-8.04	1.42	1.52
6	6	98	VAL	N-CA	-8.04	1.37	1.46
23	N	541	ALA	C-N	8.04	1.44	1.33
4	4	-1	MET	C-N	8.04	1.43	1.33
3	3	149	LEU	CA-C	-8.02	1.43	1.52
5	5	13	ILE	N-CA	-8.02	1.36	1.46
28	S	138	MET	CA-C	-8.02	1.42	1.52
26	Q	325	LEU	CA-C	-8.01	1.43	1.52
23	N	561	GLY	CA-C	-8.00	1.40	1.51
21	L	217	GLY	CA-C	-8.00	1.45	1.51
24	O	315	LYS	CA-C	-8.00	1.42	1.52
11	B	158	PRO	C-N	7.99	1.43	1.33
17	H	166	THR	CA-C	-7.97	1.42	1.52
17	H	297	MET	N-CA	-7.97	1.36	1.46
26	Q	266	LEU	N-CA	-7.94	1.36	1.46
7	7	101	PRO	CA-C	-7.93	1.44	1.52
26	Q	48	ASP	CA-C	-7.92	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	N	8	PRO	N-CD	7.92	1.58	1.47
23	N	768	ILE	CA-C	-7.92	1.46	1.53
35	Z	831	LEU	C-O	-7.91	1.14	1.24
20	K	146	LEU	CA-C	-7.91	1.42	1.52
16	G	58	LEU	N-CA	-7.89	1.35	1.45
4	4	28	LYS	N-CA	-7.88	1.36	1.46
24	O	374	ASN	N-CA	-7.86	1.36	1.46
35	Z	739	ALA	C-N	7.86	1.43	1.33
19	J	68	PRO	N-CD	7.86	1.58	1.47
15	F	214	ALA	CA-C	-7.85	1.43	1.52
12	C	96	GLN	N-CA	-7.85	1.36	1.46
23	N	767	ALA	CA-C	-7.84	1.43	1.52
18	I	347	LYS	N-CA	-7.84	1.37	1.46
26	Q	208	ILE	CA-C	-7.83	1.43	1.52
12	C	232	PRO	N-CD	7.82	1.58	1.47
26	Q	365	ILE	C-N	7.81	1.43	1.33
23	N	890	PHE	C-N	7.80	1.40	1.32
1	1	36	ARG	CA-C	-7.80	1.42	1.52
10	A	66	PRO	CA-C	-7.80	1.45	1.52
33	X	124	LYS	C-N	7.80	1.44	1.33
35	Z	434	GLN	N-CA	-7.80	1.36	1.46
23	N	617	VAL	N-CA	-7.80	1.37	1.46
16	G	152	PRO	C-N	-7.79	1.23	1.33
23	N	888	ASP	CA-CB	7.78	1.64	1.53
21	L	334	ASP	CA-C	-7.78	1.44	1.53
5	5	110	PRO	CA-C	-7.77	1.44	1.52
29	T	131	LYS	CA-C	-7.76	1.42	1.53
26	Q	134	LYS	CA-C	-7.74	1.42	1.52
22	M	303	ARG	N-CA	-7.74	1.36	1.46
31	V	113	GLY	C-N	7.74	1.43	1.33
18	I	428	VAL	C-N	7.72	1.43	1.33
18	I	430	GLU	N-CA	-7.72	1.36	1.46
2	2	206	PRO	N-CA	-7.72	1.37	1.47
3	3	114	GLY	CA-C	-7.71	1.45	1.52
23	N	760	GLY	N-CA	7.71	1.53	1.44
15	F	110	HIS	C-N	7.69	1.43	1.33
11	B	61	LEU	CA-C	-7.69	1.43	1.52
22	M	145	LEU	CA-C	-7.69	1.43	1.52
13	D	42	VAL	CA-C	-7.69	1.43	1.52
2	2	34	LEU	CA-C	-7.68	1.43	1.52
14	E	74	ILE	C-N	7.68	1.41	1.34
17	H	374	LYS	N-CA	-7.68	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	N	445	GLY	CA-C	-7.68	1.42	1.51
25	P	104	LEU	CA-C	-7.67	1.43	1.52
10	A	74	CYS	C-N	7.67	1.43	1.33
28	S	421	TYR	C-N	7.65	1.44	1.33
35	Z	484	LYS	CA-C	-7.64	1.43	1.52
18	I	99	ILE	CA-C	7.63	1.62	1.52
27	R	115	GLU	CA-C	-7.62	1.43	1.52
14	E	87	SER	C-N	7.61	1.43	1.33
23	N	189	LEU	C-N	7.61	1.44	1.33
22	M	278	ILE	N-CA	-7.60	1.37	1.46
27	R	382	ASP	CA-C	-7.60	1.43	1.52
35	Z	757	SER	N-CA	-7.59	1.37	1.46
27	R	114	ASN	CA-C	-7.58	1.43	1.52
10	A	70	SER	C-N	7.58	1.44	1.33
11	B	99	ARG	CA-C	-7.57	1.46	1.52
20	K	125	THR	CA-C	-7.55	1.42	1.52
23	N	543	ASP	C-N	7.55	1.44	1.33
18	I	370	ASN	CA-C	-7.54	1.43	1.52
21	L	170	MET	N-CA	-7.53	1.36	1.46
15	F	66	CYS	C-N	7.52	1.43	1.33
15	F	132	LEU	CA-C	-7.52	1.43	1.52
4	4	157	LEU	N-CA	-7.52	1.37	1.46
19	J	329	ARG	C-N	7.52	1.43	1.33
15	F	140	SER	C-N	7.51	1.42	1.33
21	L	267	PHE	C-N	7.51	1.43	1.33
13	D	147	LEU	N-CA	-7.51	1.37	1.46
35	Z	573	LEU	C-N	7.51	1.43	1.33
1	1	174	ARG	CA-C	-7.50	1.43	1.52
2	2	11	GLY	CA-C	-7.50	1.42	1.51
6	6	190	GLY	CA-C	-7.50	1.43	1.52
11	B	147	LEU	N-CA	-7.50	1.37	1.46
21	L	171	THR	CA-C	-7.50	1.43	1.52
29	T	72	THR	N-CA	-7.50	1.36	1.46
29	T	51	TYR	CA-C	-7.48	1.43	1.52
3	3	71	ARG	N-CA	-7.47	1.37	1.46
14	E	234	GLU	N-CA	-7.47	1.37	1.46
18	I	123	PRO	N-CD	7.46	1.58	1.47
10	A	162	TYR	CA-C	-7.45	1.43	1.52
21	L	218	VAL	CA-C	-7.45	1.43	1.52
2	2	159	ILE	N-CA	-7.44	1.37	1.46
6	6	11	PHE	N-CA	-7.44	1.36	1.45
30	U	97	PRO	N-CD	7.43	1.58	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	6	47	GLY	CA-C	-7.42	1.41	1.51
11	B	151	ASP	CA-C	-7.41	1.43	1.52
26	Q	230	LYS	CA-C	-7.40	1.42	1.52
27	R	73	ASN	CA-C	-7.40	1.43	1.53
15	F	58	SER	CA-C	-7.40	1.44	1.52
32	W	124	GLU	CA-C	-7.39	1.43	1.52
15	F	40	SER	CA-C	-7.39	1.47	1.52
20	K	69	LYS	CA-C	-7.39	1.43	1.52
18	I	263	LEU	CA-C	-7.39	1.43	1.52
21	L	415	LEU	C-N	7.38	1.43	1.33
16	G	189	ARG	CA-C	-7.38	1.43	1.52
6	6	125	GLU	CA-C	-7.38	1.43	1.52
19	J	285	SER	CA-C	-7.38	1.43	1.52
4	4	114	GLU	C-N	7.37	1.43	1.33
14	E	56	SER	C-N	7.37	1.40	1.33
4	4	86	GLU	N-CA	-7.36	1.37	1.46
23	N	405	LEU	N-CA	-7.36	1.36	1.46
10	A	173	PRO	N-CD	7.36	1.58	1.47
27	R	59	MET	C-O	-7.36	1.18	1.23
13	D	195	THR	C-N	7.36	1.43	1.33
26	Q	321	TYR	N-CA	-7.35	1.36	1.46
6	6	30	TYR	CA-C	-7.35	1.43	1.52
18	I	353	PRO	N-CD	7.35	1.58	1.47
35	Z	552	GLU	N-CA	-7.34	1.37	1.46
5	5	86	LEU	N-CA	-7.34	1.37	1.46
28	S	385	SER	C-N	7.33	1.43	1.33
27	R	341	LEU	N-CA	-7.33	1.37	1.46
19	J	257	ARG	C-N	7.33	1.41	1.33
19	J	322	ALA	CA-C	-7.33	1.43	1.52
20	K	74	HIS	C-O	-7.32	1.15	1.24
23	N	774	ASN	CA-C	-7.32	1.44	1.52
13	D	184	PRO	N-CD	7.32	1.57	1.47
22	M	335	PRO	N-CD	7.31	1.57	1.47
1	1	9	LYS	CA-C	-7.31	1.42	1.52
18	I	403	ALA	C-N	7.31	1.43	1.33
13	D	116	VAL	C-N	7.31	1.43	1.33
7	7	123	ASN	C-N	7.30	1.44	1.33
13	D	159	TRP	CA-C	-7.30	1.43	1.52
10	A	144	VAL	CA-C	-7.29	1.44	1.52
5	5	80	SER	N-CA	-7.29	1.37	1.46
1	1	190	PRO	N-CD	7.29	1.57	1.47
33	X	86	ILE	CA-C	-7.27	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3	95	PHE	CA-C	-7.27	1.45	1.53
24	O	322	ASP	CA-C	-7.27	1.43	1.52
33	X	99	PHE	N-CA	-7.26	1.36	1.45
11	B	144	GLY	C-N	7.26	1.43	1.33
11	B	138	GLY	CA-C	-7.25	1.43	1.51
14	E	60	GLU	C-N	7.24	1.43	1.33
23	N	197	VAL	CA-C	-7.22	1.43	1.52
28	S	475	TYR	N-CA	-7.22	1.37	1.46
21	L	330	PRO	N-CD	7.22	1.57	1.47
19	J	325	ALA	N-CA	-7.21	1.37	1.46
1	1	42	TRP	CA-C	-7.21	1.43	1.53
13	D	87	GLU	C-N	7.21	1.43	1.34
21	L	295	THR	CA-C	-7.20	1.43	1.52
29	T	27	LEU	N-CA	-7.20	1.40	1.46
26	Q	341	THR	CA-C	-7.18	1.43	1.52
6	6	167	SER	CA-C	-7.17	1.43	1.52
33	X	108	ASN	C-N	7.17	1.44	1.33
23	N	643	PRO	N-CD	7.17	1.57	1.47
23	N	313	LEU	N-CA	7.16	1.54	1.46
27	R	401	HIS	CA-C	-7.16	1.43	1.52
23	N	140	MET	C-N	-7.16	1.25	1.33
25	P	233	GLU	CA-C	-7.16	1.44	1.52
11	B	150	VAL	CA-C	-7.15	1.43	1.52
20	K	237	VAL	CA-C	-7.15	1.43	1.52
26	Q	295	GLY	C-N	7.14	1.42	1.33
23	N	191	THR	C-N	7.13	1.43	1.33
23	N	597	ARG	C-N	7.13	1.43	1.33
26	Q	319	LYS	N-CA	-7.13	1.37	1.46
20	K	217	THR	CA-C	-7.13	1.44	1.52
1	1	152	VAL	C-N	7.12	1.43	1.33
2	2	146	LEU	CA-C	-7.12	1.43	1.52
17	H	350	LYS	C-N	7.12	1.43	1.33
19	J	70	SER	CA-C	-7.12	1.44	1.52
19	J	381	ASP	CA-C	-7.12	1.43	1.52
29	T	162	ASP	CA-C	-7.12	1.43	1.52
23	N	238	ALA	CA-C	-7.12	1.43	1.52
26	Q	363	SER	C-N	7.10	1.43	1.33
27	R	157	SER	CA-C	7.10	1.62	1.52
7	7	109	ALA	CA-C	-7.09	1.44	1.52
24	O	314	SER	C-N	7.09	1.43	1.33
32	W	128	LEU	CA-C	-7.09	1.43	1.52
3	3	60	TYR	CA-C	7.08	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
17	H	358	PRO	N-CD	7.08	1.57	1.47
4	4	53	VAL	C-N	7.08	1.42	1.33
24	O	378	GLU	N-CA	-7.07	1.37	1.46
13	D	239	GLU	C-N	7.07	1.44	1.33
30	U	29	GLU	CA-C	-7.07	1.43	1.52
18	I	337	ALA	C-N	7.06	1.44	1.33
2	2	4	VAL	CA-C	-7.06	1.45	1.52
21	L	237	ALA	C-N	7.05	1.43	1.33
18	I	394	ALA	C-N	7.05	1.42	1.33
14	E	62	ASP	N-CA	-7.05	1.38	1.46
18	I	166	PRO	N-CD	7.04	1.57	1.47
20	K	261	ALA	C-N	7.04	1.43	1.33
29	T	117	ASN	C-N	7.04	1.43	1.33
26	Q	29	SER	CA-C	-7.04	1.43	1.52
28	S	306	SER	CA-C	-7.03	1.44	1.52
1	1	95	ALA	N-CA	-7.03	1.38	1.46
35	Z	587	THR	N-CA	-7.03	1.38	1.46
14	E	206	GLN	CA-C	-7.02	1.44	1.52
21	L	157	ARG	CA-C	-7.02	1.44	1.52
6	6	26	ILE	CA-C	-7.01	1.43	1.52
15	F	2	PHE	N-CA	7.01	1.59	1.46
5	5	154	LEU	C-N	7.01	1.43	1.33
23	N	889	ARG	N-CA	7.01	1.52	1.46
5	5	164	ALA	C-N	7.01	1.43	1.33
11	B	137	ALA	CA-C	-7.01	1.43	1.52
31	V	165	ILE	CA-C	-7.00	1.43	1.52
13	D	199	LEU	C-N	7.00	1.43	1.33
18	I	385	ASP	CA-C	-7.00	1.45	1.53
27	R	100	ASN	CA-C	-7.00	1.43	1.52
22	M	330	VAL	C-N	7.00	1.42	1.33
35	Z	468	GLU	N-CA	-7.00	1.39	1.45
18	I	308	GLU	CA-C	-6.99	1.43	1.52
23	N	105	SER	CA-C	6.99	1.61	1.52
22	M	300	GLU	CA-C	-6.99	1.43	1.52
27	R	121	GLU	C-N	6.98	1.42	1.33
7	7	7	LYS	CA-C	-6.98	1.44	1.52
35	Z	447	VAL	C-N	6.98	1.42	1.33
23	N	268	GLN	CA-C	-6.98	1.43	1.52
14	E	174	SER	CA-C	-6.98	1.44	1.52
22	M	295	LYS	C-N	6.97	1.42	1.33
23	N	626	GLY	N-CA	-6.97	1.37	1.45
27	R	116	LYS	C-N	6.96	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	Z	623	ARG	CA-C	-6.96	1.43	1.52
14	E	41	ALA	CA-C	-6.96	1.44	1.52
23	N	379	LEU	N-CA	-6.96	1.38	1.46
22	M	280	ILE	CA-C	-6.96	1.44	1.52
35	Z	772	ILE	N-CA	-6.96	1.38	1.46
19	J	243	SER	CA-C	-6.96	1.44	1.52
16	G	102	TYR	CA-C	-6.95	1.43	1.52
30	U	273	LEU	C-N	6.95	1.42	1.33
17	H	398	VAL	CA-C	-6.95	1.43	1.52
23	N	391	PRO	N-CD	6.95	1.57	1.47
34	Y	78	LYS	CA-C	-6.95	1.43	1.52
6	6	153	PRO	N-CD	6.94	1.57	1.47
25	P	129	LYS	C-N	6.94	1.40	1.33
31	V	279	HIS	CE1-NE2	6.94	1.39	1.32
28	S	457	PRO	N-CD	6.93	1.57	1.47
6	6	97	TYR	C-N	6.93	1.43	1.33
11	B	134	LEU	CA-C	-6.93	1.44	1.52
5	5	173	GLY	C-N	6.92	1.42	1.33
17	H	287	GLY	N-CA	-6.91	1.37	1.45
30	U	230	GLN	CA-C	6.91	1.62	1.52
25	P	200	SER	N-CA	-6.91	1.38	1.46
21	L	91	THR	CA-C	6.90	1.61	1.52
13	D	174	PHE	CA-C	-6.90	1.44	1.52
35	Z	506	LEU	C-N	6.90	1.43	1.33
1	1	177	VAL	CA-C	-6.89	1.44	1.52
22	M	414	ASP	C-N	6.89	1.43	1.33
26	Q	26	VAL	N-CA	-6.89	1.38	1.46
13	D	220	ASP	CA-C	-6.89	1.44	1.53
18	I	279	VAL	CA-C	-6.89	1.44	1.52
19	J	260	GLY	N-CA	-6.89	1.35	1.45
20	K	271	ILE	CA-C	-6.89	1.44	1.52
6	6	148	LYS	N-CA	-6.88	1.37	1.46
24	O	89	SER	C-N	6.88	1.43	1.33
6	6	44	SER	N-CA	-6.88	1.37	1.46
22	M	271	LYS	C-N	6.88	1.43	1.33
19	J	349	LYS	N-CA	-6.87	1.37	1.46
27	R	227	ALA	N-CA	-6.87	1.38	1.46
10	A	170	ALA	CA-C	-6.87	1.44	1.52
25	P	101	MET	N-CA	-6.86	1.38	1.46
22	M	311	GLN	N-CA	6.86	1.54	1.46
23	N	883	SER	C-N	6.86	1.42	1.33
27	R	290	SER	C-N	6.86	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	L	285	ALA	CA-C	-6.85	1.43	1.52
25	P	247	THR	N-CA	-6.85	1.38	1.46
15	F	217	GLY	CA-C	-6.85	1.43	1.51
1	1	143	ARG	N-CA	-6.84	1.36	1.45
13	D	65	SER	CA-C	-6.84	1.44	1.52
25	P	161	CYS	N-CA	6.84	1.54	1.46
11	B	72	GLY	CA-C	-6.84	1.46	1.52
2	2	179	GLU	N-CA	-6.83	1.37	1.46
31	V	125	THR	C-N	6.83	1.42	1.33
33	X	74	MET	CA-C	-6.83	1.43	1.52
23	N	426	ILE	C-N	6.82	1.42	1.33
24	O	278	PRO	N-CD	6.82	1.57	1.47
23	N	300	ASN	CA-C	-6.82	1.44	1.52
12	C	238	ILE	CA-C	-6.82	1.42	1.52
29	T	95	LYS	CA-C	-6.81	1.43	1.52
23	N	905	LEU	CA-C	6.80	1.62	1.53
17	H	368	PRO	CA-C	-6.80	1.44	1.52
35	Z	892	SER	N-CA	-6.80	1.35	1.46
23	N	648	PRO	N-CD	6.80	1.57	1.47
2	2	214	LYS	CA-C	-6.79	1.44	1.52
33	X	26	PRO	C-N	6.79	1.41	1.33
35	Z	479	THR	CA-C	-6.79	1.44	1.52
35	Z	617	ILE	CA-C	-6.79	1.44	1.52
25	P	424	GLU	CA-C	-6.77	1.44	1.52
18	I	80	GLU	N-CA	-6.77	1.38	1.46
25	P	321	VAL	C-N	6.77	1.43	1.33
21	L	372	GLY	C-N	6.77	1.42	1.33
23	N	33	ASP	N-CA	-6.77	1.38	1.46
21	L	392	ARG	N-CA	-6.76	1.38	1.46
23	N	874	ILE	CA-C	-6.76	1.44	1.52
19	J	363	THR	C-N	6.76	1.43	1.34
27	R	181	TYR	CA-C	-6.76	1.44	1.52
35	Z	67	SER	CA-C	-6.76	1.44	1.52
6	6	65	TRP	CA-C	-6.76	1.43	1.52
12	C	226	TYR	CA-C	-6.76	1.44	1.52
21	L	199	LEU	C-O	-6.76	1.18	1.24
23	N	409	GLY	CA-C	6.76	1.59	1.52
25	P	113	ASN	CA-C	-6.76	1.44	1.52
7	7	99	MET	CA-C	-6.76	1.45	1.53
27	R	134	TRP	C-N	6.76	1.42	1.33
12	C	71	ASP	N-CA	-6.75	1.37	1.46
23	N	44	PRO	N-CD	6.75	1.57	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	L	368	VAL	CA-C	6.75	1.60	1.52
35	Z	408	TYR	C-N	6.75	1.43	1.34
30	U	173	HIS	C-N	6.74	1.42	1.33
25	P	58	VAL	CA-C	-6.74	1.44	1.52
28	S	469	ASN	C-N	6.73	1.42	1.33
22	M	246	LEU	CA-C	-6.73	1.44	1.52
25	P	109	SER	C-N	6.73	1.43	1.34
3	3	151	PRO	N-CD	6.73	1.57	1.47
23	N	482	ALA	CA-C	-6.73	1.44	1.52
27	R	349	SER	N-CA	-6.73	1.38	1.46
31	V	150	LYS	CA-C	-6.73	1.43	1.52
31	V	260	GLU	N-CA	-6.73	1.38	1.46
33	X	12	ALA	C-N	6.73	1.40	1.33
31	V	287	THR	C-N	6.73	1.42	1.33
25	P	209	LYS	CA-C	-6.72	1.44	1.52
10	A	200	GLU	N-CA	-6.72	1.38	1.46
23	N	866	TYR	N-CA	6.71	1.54	1.46
3	3	183	LYS	N-CA	-6.71	1.37	1.46
10	A	185	HIS	N-CA	-6.71	1.38	1.46
12	C	15	PRO	N-CD	6.71	1.57	1.47
30	U	73	ILE	CA-C	6.70	1.61	1.52
26	Q	19	GLN	N-CA	-6.70	1.37	1.46
18	I	255	LYS	C-N	6.70	1.41	1.33
20	K	371	LEU	CA-C	-6.70	1.44	1.52
20	K	198	TYR	N-CA	-6.69	1.38	1.46
1	1	71	GLY	N-CA	-6.69	1.37	1.45
1	1	162	ALA	C-N	6.69	1.42	1.33
13	D	68	ASP	CA-C	-6.69	1.44	1.52
31	V	151	VAL	N-CA	-6.69	1.38	1.46
27	R	403	LEU	CA-C	-6.69	1.44	1.52
16	G	19	ARG	C-N	6.69	1.42	1.33
20	K	250	GLY	CA-C	6.69	1.61	1.51
20	K	185	ARG	N-CA	-6.68	1.38	1.46
21	L	195	GLU	N-CA	-6.68	1.37	1.46
11	B	71	ILE	N-CA	-6.68	1.38	1.46
22	M	418	GLY	CA-C	-6.68	1.44	1.52
29	T	66	ALA	N-CA	6.68	1.54	1.46
17	H	402	ILE	CA-C	-6.68	1.44	1.52
15	F	122	SER	N-CA	-6.68	1.37	1.46
18	I	195	LYS	CA-C	-6.67	1.43	1.52
27	R	131	ALA	C-N	6.67	1.42	1.33
10	A	242	GLU	CA-C	-6.67	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	6	77	ILE	C-N	6.67	1.43	1.33
26	Q	357	VAL	C-N	6.67	1.42	1.33
5	5	184	GLY	C-O	-6.67	1.17	1.23
23	N	775	CYS	CA-CB	6.67	1.65	1.53
30	U	269	THR	CA-C	-6.67	1.44	1.52
2	2	203	TYR	N-CA	-6.66	1.37	1.46
19	J	206	THR	C-N	6.66	1.42	1.33
23	N	607	GLN	CA-C	-6.65	1.44	1.52
28	S	272	TYR	CA-C	-6.65	1.44	1.52
5	5	153	ALA	N-CA	-6.64	1.38	1.46
10	A	147	ASP	CA-C	-6.64	1.44	1.52
5	5	185	TRP	CA-C	6.64	1.61	1.52
22	M	312	LEU	C-N	6.64	1.43	1.33
28	S	158	PHE	CA-C	-6.64	1.44	1.52
16	G	55	SER	N-CA	-6.63	1.38	1.46
20	K	365	GLU	CA-C	-6.63	1.44	1.52
28	S	165	PRO	N-CD	6.63	1.57	1.47
26	Q	325	LEU	N-CA	-6.63	1.38	1.46
27	R	71	LEU	CA-C	-6.62	1.44	1.52
10	A	152	PRO	N-CD	6.62	1.57	1.47
18	I	248	VAL	CA-C	-6.62	1.46	1.53
4	4	134	TYR	C-N	6.62	1.42	1.33
25	P	425	HIS	CA-C	-6.62	1.44	1.52
6	6	-8	PHE	N-CA	-6.61	1.37	1.46
18	I	429	GLU	CA-C	-6.61	1.44	1.52
5	5	167	ARG	CA-C	-6.61	1.44	1.52
17	H	410	LEU	C-N	6.61	1.44	1.33
26	Q	13	ARG	CA-C	-6.61	1.43	1.52
35	Z	354	PRO	N-CD	6.61	1.57	1.47
35	Z	586	GLU	C-N	6.61	1.42	1.33
19	J	49	ASN	N-CA	-6.60	1.38	1.46
25	P	327	LEU	CA-C	-6.60	1.46	1.53
33	X	61	LEU	CA-C	-6.60	1.47	1.53
22	M	323	VAL	CA-C	-6.60	1.44	1.52
2	2	112	SER	CA-C	-6.60	1.44	1.52
21	L	412	PRO	N-CD	6.59	1.56	1.47
15	F	94	TYR	CA-C	-6.59	1.44	1.52
25	P	391	ALA	CA-C	-6.59	1.44	1.52
6	6	34	VAL	CA-C	-6.59	1.44	1.52
15	F	154	THR	CA-C	-6.58	1.44	1.52
18	I	215	PRO	C-O	-6.58	1.17	1.24
18	I	396	CYS	CA-C	-6.58	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	K	337	LYS	CA-C	-6.56	1.45	1.52
15	F	54	ASP	CA-C	-6.55	1.44	1.52
25	P	133	GLU	C-N	6.55	1.42	1.33
22	M	327	THR	CA-C	-6.55	1.44	1.52
11	B	25	LEU	CA-C	-6.55	1.43	1.52
16	G	245	GLU	CA-C	-6.55	1.44	1.53
32	W	112	ALA	C-N	6.55	1.42	1.33
12	C	205	ALA	CA-C	-6.55	1.44	1.52
12	C	228	LYS	CA-C	-6.55	1.45	1.52
18	I	330	LYS	C-N	6.55	1.40	1.33
26	Q	343	LEU	N-CA	-6.54	1.38	1.46
17	H	389	PHE	CA-C	-6.54	1.44	1.52
26	Q	195	LYS	CA-C	-6.54	1.44	1.52
12	C	111	LEU	C-N	6.54	1.42	1.33
15	F	216	VAL	C-N	6.53	1.39	1.33
16	G	15	SER	CA-C	6.53	1.60	1.53
11	B	199	SER	N-CA	-6.53	1.37	1.46
11	B	25	LEU	N-CA	-6.52	1.38	1.46
25	P	281	ILE	N-CA	6.52	1.54	1.46
23	N	501	MET	CA-C	-6.52	1.44	1.52
18	I	124	THR	N-CA	-6.52	1.37	1.46
35	Z	900	LEU	N-CA	-6.51	1.37	1.46
26	Q	319	LYS	C-N	6.51	1.42	1.33
10	A	78	THR	CA-C	-6.51	1.44	1.52
15	F	125	GLY	C-N	6.50	1.41	1.33
15	F	146	GLU	N-CA	-6.50	1.38	1.46
28	S	196	ARG	N-CA	-6.50	1.37	1.46
20	K	361	SER	N-CA	6.50	1.54	1.46
20	K	403	LEU	C-N	6.50	1.42	1.34
22	M	294	GLU	C-N	6.50	1.42	1.34
11	B	187	ASP	C-N	6.49	1.43	1.34
26	Q	100	LEU	C-O	-6.49	1.16	1.24
31	V	143	PRO	N-CD	6.49	1.56	1.47
22	M	297	GLY	CA-C	6.49	1.59	1.52
16	G	36	SER	CA-C	-6.49	1.44	1.52
18	I	260	GLY	C-N	-6.49	1.26	1.34
30	U	70	HIS	CE1-NE2	6.49	1.39	1.32
17	H	387	ASN	CA-C	6.48	1.61	1.52
35	Z	58	GLU	N-CA	-6.48	1.38	1.46
23	N	394	ARG	CA-C	6.48	1.61	1.52
35	Z	437	ASP	CA-C	-6.48	1.44	1.52
35	Z	520	ILE	CA-C	-6.48	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	X	39	GLU	C-N	6.48	1.41	1.33
15	F	122	SER	C-N	6.47	1.42	1.34
23	N	568	VAL	C-N	6.47	1.42	1.33
26	Q	414	GLU	C-N	6.47	1.42	1.33
22	M	312	LEU	CA-C	-6.47	1.44	1.52
26	Q	73	LYS	N-CA	-6.47	1.38	1.46
2	2	69	TYR	CA-C	-6.46	1.44	1.52
17	H	277	SER	C-N	6.46	1.43	1.33
23	N	897	LYS	N-CA	-6.46	1.40	1.46
11	B	109	LEU	C-N	6.46	1.42	1.33
25	P	208	PHE	CA-C	-6.46	1.44	1.52
16	G	130	PRO	N-CD	6.45	1.56	1.47
17	H	309	ASP	C-N	6.45	1.42	1.33
6	6	162	PRO	N-CD	6.45	1.56	1.47
10	A	113	PRO	CA-C	-6.45	1.44	1.52
27	R	306	PRO	N-CD	6.45	1.56	1.47
23	N	187	ASN	C-N	6.44	1.42	1.33
24	O	385	GLU	CA-C	-6.44	1.44	1.52
6	6	181	SER	CA-C	-6.44	1.44	1.52
35	Z	604	GLY	CA-C	-6.43	1.44	1.52
6	6	36	ASP	CA-C	-6.43	1.44	1.52
4	4	38	SER	N-CA	-6.43	1.40	1.46
23	N	677	ASP	CA-C	-6.43	1.44	1.52
10	A	151	GLY	N-CA	6.43	1.53	1.44
11	B	179	TRP	C-N	6.42	1.42	1.33
26	Q	8	LEU	C-O	-6.42	1.16	1.24
28	S	280	ASN	C-N	6.42	1.42	1.33
23	N	173	LYS	N-CA	-6.42	1.38	1.46
30	U	82	LYS	C-N	6.42	1.40	1.33
15	F	150	SER	C-N	6.42	1.41	1.32
1	1	158	SER	C-N	6.41	1.42	1.33
23	N	190	LEU	CA-C	-6.41	1.44	1.52
28	S	440	ASP	C-N	6.41	1.41	1.33
32	W	117	PRO	N-CD	6.41	1.56	1.47
22	M	56	ASN	C-N	6.40	1.41	1.34
20	K	206	PRO	N-CD	6.40	1.56	1.47
21	L	388	GLY	CA-C	6.40	1.59	1.52
4	4	55	PHE	C-N	6.39	1.42	1.33
29	T	40	LEU	C-N	6.39	1.40	1.33
27	R	301	TYR	CA-C	-6.39	1.44	1.52
21	L	216	LYS	C-N	6.38	1.40	1.33
18	I	183	ASP	CA-C	-6.38	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
17	H	162	ARG	C-N	6.38	1.42	1.33
19	J	343	LEU	C-N	6.38	1.42	1.33
19	J	295	ASN	CA-C	-6.38	1.44	1.53
23	N	175	ASP	CA-C	-6.38	1.45	1.52
10	A	68	THR	C-N	6.38	1.40	1.33
30	U	196	SER	N-CA	-6.37	1.38	1.46
21	L	84	LEU	C-N	6.37	1.42	1.33
15	F	138	ASP	N-CA	-6.37	1.38	1.46
20	K	392	LEU	CA-C	6.37	1.61	1.52
3	3	2	ILE	CA-C	-6.37	1.45	1.52
12	C	19	LEU	N-CA	-6.36	1.38	1.46
21	L	154	THR	C-N	6.36	1.39	1.33
23	N	903	VAL	N-CA	-6.36	1.38	1.46
6	6	116	PHE	CA-C	-6.36	1.45	1.52
23	N	657	MET	C-N	6.36	1.42	1.34
25	P	402	PHE	CA-C	6.36	1.60	1.52
2	2	79	ALA	C-N	6.36	1.41	1.33
13	D	202	VAL	N-CA	6.35	1.54	1.46
28	S	145	PHE	CA-C	-6.35	1.43	1.53
12	C	153	PRO	N-CD	6.35	1.56	1.47
19	J	357	ASP	N-CA	-6.35	1.38	1.46
30	U	296	ILE	C-O	-6.35	1.17	1.24
30	U	41	ALA	N-CA	6.34	1.52	1.46
21	L	116	LYS	C-O	-6.34	1.16	1.23
23	N	868	VAL	CA-C	6.34	1.59	1.52
31	V	201	ILE	N-CA	-6.34	1.38	1.46
7	7	116	ASP	CA-C	-6.33	1.44	1.53
23	N	759	ILE	CA-C	-6.33	1.45	1.52
25	P	183	GLN	CA-C	-6.33	1.44	1.52
14	E	234	GLU	CA-C	6.33	1.60	1.52
22	M	214	ALA	C-N	6.33	1.41	1.33
22	M	406	GLY	CA-C	-6.33	1.42	1.51
30	U	79	MET	C-N	6.33	1.42	1.33
3	3	9	LYS	C-N	6.33	1.42	1.33
18	I	421	GLU	N-CA	6.33	1.54	1.46
32	W	22	PRO	N-CD	6.33	1.56	1.47
14	E	203	ILE	C-N	6.32	1.42	1.33
21	L	247	PRO	CA-C	-6.32	1.46	1.52
25	P	314	VAL	N-CA	-6.32	1.38	1.46
31	V	259	LYS	CA-C	-6.32	1.44	1.52
19	J	164	ILE	CA-C	-6.32	1.44	1.52
21	L	335	PRO	N-CD	6.32	1.56	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	J	321	VAL	C-N	6.31	1.42	1.33
26	Q	216	ALA	CA-C	-6.31	1.44	1.52
28	S	436	ILE	N-CA	-6.31	1.39	1.46
26	Q	259	CYS	CA-C	6.31	1.60	1.52
10	A	210	MET	CA-C	-6.30	1.44	1.52
26	Q	372	GLN	C-N	6.30	1.41	1.33
27	R	59	MET	CA-C	6.30	1.58	1.52
7	7	219	GLY	CA-C	-6.30	1.46	1.52
26	Q	233	LYS	C-N	6.30	1.42	1.33
19	J	117	SER	CA-C	-6.29	1.44	1.52
6	6	172	ILE	C-N	6.29	1.41	1.33
28	S	181	ALA	C-N	6.29	1.41	1.33
23	N	903	VAL	CA-C	-6.29	1.44	1.52
7	7	82	SER	C-O	6.28	1.31	1.24
16	G	152	PRO	N-CD	6.27	1.56	1.47
12	C	102	TYR	N-CA	-6.27	1.37	1.46
26	Q	370	THR	CA-C	-6.27	1.45	1.52
35	Z	572	ILE	N-CA	-6.26	1.39	1.46
5	5	56	GLU	N-CA	-6.25	1.38	1.46
26	Q	116	PHE	N-CA	-6.25	1.38	1.46
35	Z	926	ASN	CA-C	6.25	1.60	1.52
18	I	341	PRO	N-CD	6.24	1.56	1.47
4	4	21	THR	C-N	6.24	1.41	1.33
23	N	321	LEU	N-CA	6.24	1.53	1.45
4	4	49	ALA	N-CA	-6.24	1.37	1.46
15	F	132	LEU	C-N	6.24	1.41	1.33
18	I	295	ASN	C-N	6.24	1.42	1.33
1	1	138	CYS	CA-C	-6.23	1.44	1.52
23	N	470	LEU	N-CA	6.23	1.54	1.46
6	6	64	LYS	N-CA	-6.23	1.39	1.46
23	N	294	PRO	N-CD	6.23	1.56	1.47
33	X	89	LEU	N-CA	-6.23	1.39	1.46
31	V	240	ALA	CA-C	-6.22	1.44	1.52
1	1	121	LYS	CA-C	-6.22	1.44	1.52
20	K	393	ARG	N-CA	-6.22	1.38	1.46
26	Q	69	GLY	CA-C	-6.22	1.43	1.51
26	Q	260	GLN	CA-C	-6.22	1.44	1.52
19	J	77	LYS	N-CA	-6.22	1.38	1.46
13	D	197	ARG	CA-C	-6.22	1.45	1.52
22	M	377	GLN	CA-C	-6.22	1.44	1.52
23	N	393	SER	C-N	6.22	1.42	1.33
4	4	54	GLN	N-CA	-6.21	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	W	189	PRO	N-CD	6.21	1.56	1.47
6	6	108	ASP	N-CA	-6.21	1.37	1.45
6	6	25	SER	CA-C	-6.21	1.45	1.52
10	A	28	VAL	CA-C	-6.20	1.44	1.52
27	R	139	GLU	C-N	6.20	1.41	1.33
7	7	42	VAL	CA-C	-6.19	1.45	1.52
23	N	43	LEU	N-CA	-6.19	1.40	1.46
6	6	148	LYS	C-N	6.19	1.42	1.33
35	Z	411	LYS	N-CA	-6.19	1.38	1.46
20	K	374	ARG	C-N	6.19	1.42	1.33
23	N	770	LYS	CA-C	-6.19	1.44	1.52
35	Z	872	VAL	C-N	6.19	1.41	1.33
4	4	86	GLU	C-N	6.19	1.41	1.33
23	N	557	LEU	CA-C	-6.19	1.44	1.52
5	5	2	THR	CA-C	-6.18	1.45	1.52
12	C	147	GLN	C-N	6.18	1.41	1.33
35	Z	825	ALA	N-CA	-6.18	1.38	1.46
23	N	897	LYS	CA-C	-6.18	1.46	1.52
28	S	266	SER	CA-C	-6.18	1.44	1.52
31	V	240	ALA	C-N	6.18	1.41	1.33
27	R	191	LEU	N-CA	-6.18	1.39	1.46
18	I	122	SER	C-N	-6.17	1.28	1.33
30	U	50	ASN	CA-C	6.17	1.60	1.52
14	E	166	ARG	CA-C	-6.17	1.45	1.52
14	E	177	GLU	C-N	6.16	1.40	1.33
27	R	318	PRO	N-CD	6.16	1.56	1.47
5	5	174	SER	C-N	6.16	1.41	1.33
16	G	66	ILE	CA-C	-6.16	1.45	1.52
5	5	41	LEU	CA-C	-6.16	1.45	1.52
23	N	132	LYS	N-CA	-6.16	1.39	1.46
7	7	200	PHE	N-CA	-6.16	1.39	1.46
35	Z	366	LYS	N-CA	-6.16	1.38	1.46
19	J	149	MET	C-N	6.15	1.41	1.33
22	M	391	LEU	C-N	6.15	1.42	1.33
12	C	224	GLU	N-CA	-6.15	1.38	1.46
18	I	80	GLU	C-N	6.15	1.41	1.33
19	J	359	LYS	CA-C	6.15	1.60	1.52
5	5	202	GLU	C-N	6.14	1.42	1.33
14	E	212	LEU	C-N	6.14	1.42	1.33
10	A	167	LYS	CA-C	-6.14	1.44	1.52
11	B	83	ARG	C-O	-6.14	1.17	1.24
28	S	333	PHE	C-N	6.14	1.42	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	G	110	ALA	C-N	6.13	1.42	1.33
23	N	175	ASP	N-CA	-6.13	1.39	1.46
23	N	384	LYS	CA-C	-6.13	1.44	1.52
1	1	73	PRO	N-CD	6.13	1.56	1.47
28	S	268	LEU	N-CA	-6.13	1.39	1.46
30	U	275	VAL	CA-C	6.13	1.60	1.52
35	Z	889	VAL	CA-C	-6.13	1.45	1.52
20	K	67	TYR	C-N	6.13	1.41	1.33
19	J	194	GLY	CA-C	-6.13	1.43	1.51
7	7	163	GLN	N-CA	-6.13	1.39	1.46
13	D	173	GLU	C-N	6.13	1.41	1.33
22	M	62	ILE	C-N	6.13	1.42	1.33
19	J	228	ARG	CA-C	-6.12	1.45	1.52
33	X	50	TRP	NE1-CE2	-6.12	1.30	1.37
27	R	364	LEU	N-CA	-6.12	1.39	1.46
15	F	152	ASN	C-N	6.12	1.41	1.33
32	W	139	VAL	CA-CB	6.12	1.62	1.54
7	7	86	GLU	CA-C	-6.11	1.44	1.52
26	Q	64	LEU	N-CA	-6.11	1.38	1.46
27	R	31	PHE	N-CA	-6.11	1.39	1.46
12	C	46	LEU	N-CA	-6.11	1.38	1.46
30	U	87	GLU	C-N	6.11	1.41	1.33
33	X	20	ASP	CA-C	-6.11	1.46	1.53
35	Z	621	LEU	CA-C	-6.11	1.45	1.52
29	T	101	LYS	CA-C	-6.10	1.44	1.52
35	Z	97	PRO	N-CD	6.10	1.56	1.47
2	2	221	CYS	N-CA	-6.10	1.39	1.46
11	B	70	ASP	CA-C	-6.10	1.45	1.52
16	G	101	LEU	CA-C	-6.10	1.44	1.52
19	J	110	SER	C-N	6.10	1.41	1.33
17	H	348	ASN	C-O	6.09	1.31	1.24
23	N	612	SER	CA-C	-6.09	1.45	1.52
17	H	228	PRO	N-CA	-6.09	1.39	1.47
22	M	316	SER	N-CA	-6.09	1.39	1.46
25	P	236	GLU	CA-C	-6.09	1.45	1.52
11	B	65	SER	C-N	6.09	1.42	1.33
30	U	21	HIS	C-O	-6.09	1.17	1.24
35	Z	593	HIS	N-CA	-6.09	1.37	1.46
29	T	83	ASN	CA-C	-6.09	1.45	1.52
26	Q	72	ASP	CA-C	-6.08	1.45	1.52
4	4	5	GLY	CA-C	-6.08	1.43	1.51
7	7	152	ASP	CA-C	6.08	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	C	228	LYS	N-CA	-6.08	1.39	1.46
26	Q	163	ARG	C-N	6.08	1.42	1.33
30	U	39	GLY	CA-C	-6.08	1.43	1.51
19	J	265	ASP	N-CA	6.08	1.51	1.46
12	C	244	ILE	CA-C	-6.08	1.46	1.53
18	I	351	GLU	C-N	6.08	1.42	1.33
20	K	348	GLU	C-O	-6.08	1.16	1.24
26	Q	253	ASN	N-CA	6.08	1.53	1.46
23	N	733	LEU	C-N	6.08	1.41	1.33
23	N	899	ASN	C-N	6.08	1.41	1.33
31	V	195	HIS	C-N	6.08	1.41	1.33
19	J	161	LYS	CA-C	-6.08	1.45	1.52
28	S	289	ALA	CA-C	-6.08	1.45	1.52
35	Z	765	MET	CA-C	-6.08	1.44	1.52
7	7	10	ASN	C-N	6.07	1.39	1.33
17	H	406	LEU	N-CA	-6.07	1.38	1.46
25	P	136	ARG	N-CA	-6.07	1.39	1.46
1	1	158	SER	CA-C	-6.07	1.45	1.52
23	N	128	ILE	N-CA	-6.07	1.38	1.46
17	H	446	ALA	N-CA	-6.06	1.39	1.46
19	J	185	VAL	N-CA	-6.06	1.39	1.46
25	P	389	ILE	C-N	6.06	1.41	1.33
31	V	202	ASP	CA-C	-6.06	1.44	1.52
28	S	152	LEU	C-N	6.05	1.41	1.33
2	2	57	GLN	C-O	-6.05	1.17	1.24
5	5	69	ARG	CA-C	-6.05	1.45	1.52
22	M	327	THR	N-CA	6.05	1.53	1.46
33	X	115	SER	C-N	6.05	1.42	1.33
35	Z	869	ASP	CA-C	-6.05	1.44	1.52
5	5	170	TYR	C-N	6.05	1.41	1.33
18	I	225	PRO	N-CD	6.04	1.56	1.47
21	L	220	LEU	N-CA	-6.04	1.38	1.46
22	M	285	ALA	CA-C	-6.04	1.46	1.52
26	Q	83	GLU	C-N	6.04	1.41	1.33
33	X	93	SER	C-N	6.04	1.42	1.33
27	R	319	CYS	CA-C	-6.04	1.45	1.52
4	4	165	GLN	C-N	6.03	1.42	1.33
20	K	279	THR	C-N	6.03	1.40	1.33
22	M	389	ALA	N-CA	-6.03	1.39	1.46
31	V	238	LEU	CA-C	-6.03	1.44	1.52
3	3	5	ALA	C-N	6.02	1.41	1.33
4	4	47	GLY	C-O	6.02	1.27	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	P	47	ARG	CD-NE	6.02	1.54	1.46
3	3	178	VAL	CA-C	-6.02	1.45	1.52
25	P	101	MET	C-N	6.02	1.42	1.34
21	L	350	PRO	N-CD	6.02	1.56	1.47
27	R	67	CYS	N-CA	-6.02	1.39	1.46
11	B	151	ASP	C-N	-6.01	1.26	1.33
25	P	396	PRO	N-CD	6.01	1.56	1.47
33	X	71	GLY	N-CA	-6.01	1.36	1.45
29	T	234	TYR	CA-C	-6.01	1.45	1.52
3	3	21	GLY	C-N	6.01	1.42	1.33
28	S	359	LYS	N-CA	-6.01	1.39	1.46
18	I	328	THR	N-CA	-6.00	1.38	1.46
23	N	145	LEU	N-CA	-6.00	1.38	1.46
25	P	261	LEU	CA-C	-6.00	1.45	1.52
22	M	161	SER	C-N	6.00	1.42	1.33
18	I	186	GLY	C-N	6.00	1.41	1.33
23	N	296	CYS	C-N	6.00	1.41	1.33
28	S	170	TYR	N-CA	-6.00	1.39	1.46
35	Z	966	GLU	N-CA	-6.00	1.38	1.46
23	N	471	TYR	N-CA	6.00	1.53	1.46
28	S	383	LEU	CA-C	-6.00	1.44	1.52
25	P	42	LEU	CA-CB	5.99	1.62	1.53
31	V	154	ASP	C-N	5.99	1.41	1.33
35	Z	864	MET	C-N	5.99	1.41	1.33
14	E	84	ASP	CA-C	-5.98	1.44	1.52
7	7	30	GLY	C-N	5.98	1.41	1.33
16	G	239	ILE	N-CA	-5.98	1.39	1.46
16	G	41	CYS	N-CA	-5.98	1.37	1.46
26	Q	238	TYR	CA-C	-5.98	1.45	1.52
1	1	40	LYS	CA-C	-5.97	1.45	1.52
16	G	213	LEU	CA-C	-5.97	1.45	1.52
26	Q	306	TYR	CA-C	5.97	1.60	1.52
18	I	335	ASP	CA-C	-5.97	1.46	1.53
19	J	304	LEU	C-N	5.97	1.42	1.33
6	6	-1	GLY	C-N	5.97	1.41	1.33
23	N	185	ILE	C-N	5.96	1.41	1.33
7	7	73	ALA	CA-C	-5.96	1.45	1.52
22	M	386	PHE	C-N	5.96	1.41	1.33
23	N	144	CYS	C-N	5.95	1.42	1.33
28	S	187	ILE	CA-C	-5.95	1.45	1.52
23	N	572	LEU	N-CA	5.95	1.53	1.46
7	7	110	GLY	CA-C	-5.95	1.44	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	N	654	GLN	N-CA	-5.95	1.39	1.46
30	U	164	GLU	C-N	5.95	1.41	1.33
13	D	34	VAL	CA-C	-5.94	1.45	1.52
26	Q	34	ASP	C-N	5.94	1.41	1.33
10	A	138	GLY	N-CA	-5.94	1.38	1.45
21	L	139	LYS	C-N	5.94	1.41	1.33
12	C	101	THR	N-CA	-5.94	1.39	1.46
29	T	180	ILE	CA-C	-5.94	1.45	1.52
19	J	167	PRO	N-CD	5.93	1.56	1.47
31	V	193	ASN	C-N	5.93	1.41	1.33
35	Z	806	GLU	CA-C	5.93	1.60	1.52
2	2	80	LEU	CA-C	5.93	1.60	1.52
15	F	133	LEU	CA-C	-5.93	1.45	1.52
30	U	113	TYR	N-CA	5.93	1.53	1.46
25	P	92	SER	CA-C	-5.93	1.45	1.52
25	P	72	TRP	CA-C	-5.93	1.44	1.52
26	Q	253	ASN	C-N	5.93	1.41	1.33
35	Z	987	PRO	C-N	5.93	1.42	1.33
11	B	210	GLU	CA-C	-5.92	1.45	1.52
18	I	331	ILE	CA-C	-5.92	1.45	1.53
27	R	393	PRO	N-CD	5.92	1.56	1.47
35	Z	788	PRO	N-CD	5.92	1.56	1.47
35	Z	858	GLY	CA-C	-5.92	1.45	1.51
7	7	147	LEU	C-N	5.92	1.42	1.33
23	N	349	ILE	N-CA	-5.92	1.39	1.46
29	T	214	GLU	CA-C	5.92	1.60	1.52
18	I	238	ASN	CA-C	-5.91	1.45	1.52
25	P	298	SER	C-N	5.91	1.42	1.34
7	7	181	ALA	CA-C	-5.91	1.44	1.52
20	K	196	ASP	C-N	5.91	1.42	1.33
18	I	333	THR	CA-C	-5.91	1.45	1.52
16	G	13	VAL	N-CA	-5.90	1.40	1.46
3	3	163	LEU	CA-C	-5.90	1.45	1.52
21	L	152	THR	N-CA	-5.90	1.37	1.46
23	N	420	THR	C-N	5.90	1.41	1.33
11	B	155	SER	N-CA	-5.90	1.38	1.46
27	R	369	GLY	C-N	5.90	1.42	1.33
3	3	133	ALA	C-N	5.90	1.42	1.34
26	Q	205	ALA	CA-C	-5.90	1.45	1.52
18	I	378	GLU	N-CA	-5.89	1.39	1.46
33	X	89	LEU	CA-C	-5.89	1.45	1.52
4	4	148	ARG	CA-C	5.89	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	T	142	LEU	N-CA	5.89	1.53	1.46
12	C	120	GLN	CA-C	-5.89	1.45	1.52
20	K	315	ILE	C-N	5.89	1.41	1.33
35	Z	771	HIS	N-CA	-5.89	1.39	1.46
12	C	51	LYS	CA-C	-5.89	1.45	1.52
26	Q	218	LEU	CA-C	-5.89	1.45	1.52
3	3	188	LYS	N-CA	-5.89	1.39	1.46
18	I	383	THR	N-CA	5.89	1.53	1.46
26	Q	396	TRP	CA-C	-5.89	1.45	1.52
20	K	427	TYR	N-CA	5.88	1.52	1.46
23	N	100	THR	N-CA	-5.88	1.39	1.46
29	T	106	ILE	CA-C	-5.88	1.45	1.52
25	P	328	ALA	CA-C	-5.88	1.44	1.52
26	Q	293	SER	C-N	5.88	1.41	1.34
28	S	460	VAL	CA-C	-5.88	1.45	1.52
10	A	104	PHE	C-O	-5.88	1.17	1.24
13	D	90	ARG	C-N	5.88	1.41	1.33
17	H	201	GLU	N-CA	-5.88	1.39	1.46
3	3	26	GLY	CA-C	-5.87	1.42	1.52
25	P	88	GLN	N-CA	5.87	1.55	1.46
26	Q	65	TYR	N-CA	5.87	1.53	1.46
31	V	255	ILE	N-CA	-5.87	1.39	1.46
22	M	224	PRO	N-CD	5.87	1.55	1.47
28	S	315	LYS	C-N	5.87	1.42	1.33
18	I	232	LEU	CA-C	-5.87	1.45	1.52
26	Q	185	TYR	C-N	5.87	1.41	1.33
26	Q	129	LYS	CA-C	-5.87	1.47	1.52
23	N	772	GLN	CA-C	-5.86	1.45	1.52
17	H	397	SER	CA-C	-5.86	1.45	1.53
21	L	120	LYS	N-CA	-5.86	1.39	1.46
13	D	62	SER	N-CA	-5.86	1.38	1.45
19	J	108	LYS	CA-C	-5.86	1.45	1.52
2	2	3	ILE	CA-C	-5.86	1.45	1.52
23	N	244	LYS	C-N	5.86	1.42	1.33
35	Z	481	PRO	CA-C	5.86	1.60	1.52
29	T	91	SER	CA-C	5.86	1.60	1.52
29	T	211	PHE	CA-C	-5.86	1.45	1.52
19	J	63	ARG	C-N	5.85	1.41	1.33
1	1	177	VAL	C-N	5.85	1.42	1.33
18	I	353	PRO	N-CA	-5.85	1.39	1.47
2	2	10	ASN	C-N	5.85	1.39	1.33
26	Q	239	PHE	C-O	-5.85	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	146	MET	CA-C	-5.85	1.45	1.52
20	K	264	ASN	N-CA	5.85	1.53	1.46
4	4	77	GLN	CA-C	-5.84	1.45	1.52
7	7	118	PHE	C-N	5.84	1.41	1.33
15	F	186	PRO	N-CD	5.84	1.55	1.47
30	U	167	GLU	CA-C	-5.84	1.45	1.52
23	N	407	GLY	N-CA	-5.84	1.38	1.45
25	P	352	VAL	C-N	5.84	1.41	1.33
35	Z	955	VAL	CA-C	5.84	1.60	1.52
2	2	108	SER	CA-C	5.84	1.60	1.52
7	7	35	ILE	CA-C	-5.84	1.48	1.53
12	C	167	ALA	CA-C	-5.84	1.44	1.53
27	R	187	VAL	CA-C	-5.84	1.45	1.52
18	I	383	THR	C-N	5.84	1.42	1.33
24	O	92	PHE	CA-C	-5.84	1.45	1.52
17	H	279	LEU	C-N	-5.84	1.25	1.33
18	I	203	THR	N-CA	-5.84	1.39	1.46
19	J	158	LYS	N-CA	-5.84	1.39	1.46
27	R	109	LYS	C-N	5.84	1.41	1.33
22	M	233	ARG	C-N	5.83	1.41	1.33
27	R	375	LYS	N-CA	-5.83	1.37	1.46
19	J	154	THR	C-N	5.83	1.41	1.33
25	P	166	GLU	C-N	5.83	1.41	1.33
30	U	26	GLN	C-N	5.83	1.41	1.33
31	V	280	LEU	C-N	5.83	1.41	1.33
35	Z	992	GLU	N-CA	-5.83	1.39	1.46
19	J	296	ARG	C-O	-5.83	1.16	1.23
13	D	162	GLN	CA-C	-5.83	1.45	1.52
17	H	400	ARG	CA-C	-5.83	1.45	1.52
23	N	111	GLN	CA-C	-5.83	1.45	1.52
28	S	211	ARG	C-N	5.83	1.41	1.33
35	Z	988	ASP	C-N	5.83	1.41	1.33
35	Z	780	MET	CA-C	-5.83	1.45	1.52
17	H	435	ARG	CA-C	-5.83	1.45	1.52
29	T	133	ILE	CA-C	5.83	1.60	1.52
32	W	170	HIS	ND1-CE1	-5.83	1.26	1.32
2	2	14	ILE	C-N	5.82	1.40	1.33
7	7	92	MET	N-CA	-5.82	1.39	1.46
17	H	380	PRO	N-CD	5.82	1.55	1.47
20	K	157	SER	C-N	5.82	1.41	1.33
20	K	350	ARG	N-CA	-5.82	1.39	1.46
26	Q	98	LYS	CA-C	-5.82	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
28	S	406	ASP	C-O	-5.82	1.17	1.24
15	F	21	GLN	N-CA	-5.82	1.38	1.46
16	G	238	ALA	C-N	5.82	1.41	1.33
10	A	34	ALA	C-N	5.82	1.41	1.33
20	K	110	VAL	N-CA	-5.82	1.39	1.46
22	M	357	ARG	CA-C	-5.81	1.45	1.52
23	N	221	ASP	N-CA	-5.81	1.39	1.46
11	B	222	LEU	C-N	5.81	1.41	1.33
17	H	259	CYS	C-N	5.81	1.41	1.33
18	I	301	GLU	CA-C	-5.81	1.45	1.52
19	J	103	ASN	CA-C	-5.81	1.45	1.52
7	7	37	VAL	C-N	5.81	1.42	1.33
20	K	120	VAL	C-N	5.81	1.41	1.33
32	W	110	ILE	N-CA	-5.81	1.39	1.46
35	Z	400	ILE	CA-C	5.81	1.60	1.52
7	7	81	PRO	N-CD	5.80	1.55	1.47
6	6	3	ILE	C-N	5.80	1.41	1.33
7	7	-2	THR	C-N	5.80	1.40	1.32
25	P	234	TYR	C-N	5.80	1.41	1.33
6	6	79	SER	CA-C	-5.79	1.45	1.52
33	X	35	ILE	CA-C	-5.79	1.45	1.52
7	7	109	ALA	C-N	5.79	1.40	1.33
13	D	180	ASP	C-N	5.79	1.42	1.33
26	Q	430	ALA	N-CA	-5.79	1.39	1.46
33	X	88	ALA	CA-C	-5.79	1.45	1.52
19	J	169	LYS	C-N	5.79	1.38	1.33
7	7	189	LEU	C-N	5.79	1.41	1.33
21	L	425	VAL	C-N	5.79	1.41	1.33
27	R	69	GLU	N-CA	-5.79	1.39	1.46
13	D	168	SER	C-N	5.79	1.41	1.33
20	K	117	SER	CA-C	-5.78	1.45	1.52
4	4	140	PHE	CA-C	-5.78	1.45	1.52
14	E	92	ALA	N-CA	-5.78	1.39	1.46
26	Q	129	LYS	C-O	5.78	1.28	1.23
31	V	45	VAL	C-N	5.78	1.41	1.33
10	A	40	ILE	C-N	5.78	1.41	1.33
20	K	252	ARG	C-N	5.78	1.41	1.33
26	Q	115	ILE	N-CA	-5.78	1.39	1.46
2	2	93	HIS	C-N	5.78	1.41	1.33
12	C	216	ILE	C-N	5.78	1.41	1.33
18	I	325	ILE	C-O	-5.78	1.18	1.24
35	Z	882	LEU	CA-C	-5.78	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	5	3	THR	CA-C	-5.77	1.45	1.52
5	5	11	GLY	CA-C	-5.77	1.43	1.51
11	B	138	GLY	N-CA	-5.77	1.39	1.45
12	C	24	TYR	N-CA	-5.77	1.39	1.46
25	P	138	ARG	CA-C	-5.77	1.45	1.52
17	H	243	PRO	N-CD	5.77	1.55	1.47
22	M	205	ASP	CA-C	-5.77	1.45	1.52
26	Q	32	ASP	C-N	5.77	1.38	1.33
3	3	131	GLY	CA-C	-5.76	1.45	1.52
14	E	158	ALA	CA-C	-5.76	1.45	1.52
29	T	98	GLU	C-N	5.76	1.41	1.33
3	3	33	LYS	CA-C	5.76	1.60	1.52
35	Z	508	LEU	CA-C	-5.76	1.45	1.52
3	3	100	VAL	C-O	-5.76	1.18	1.24
10	A	82	VAL	CA-C	-5.76	1.45	1.52
14	E	135	SER	CA-C	-5.76	1.45	1.52
35	Z	771	HIS	C-N	5.76	1.41	1.33
25	P	57	GLU	C-N	5.76	1.41	1.33
3	3	35	PHE	CA-C	-5.76	1.45	1.52
24	O	368	ASP	C-O	-5.75	1.17	1.24
28	S	148	ASP	C-N	5.75	1.40	1.33
6	6	111	GLY	CA-C	-5.75	1.47	1.52
20	K	296	LEU	N-CA	-5.75	1.39	1.46
26	Q	38	SER	C-N	5.75	1.41	1.33
26	Q	358	GLU	C-N	5.75	1.41	1.33
29	T	167	GLY	CA-C	-5.75	1.46	1.52
5	5	199	LYS	C-N	5.75	1.41	1.33
23	N	223	LEU	CA-C	5.75	1.60	1.52
24	O	209	GLU	CA-C	-5.75	1.45	1.52
26	Q	263	LYS	CA-C	-5.74	1.45	1.52
28	S	169	CYS	CA-C	-5.74	1.45	1.52
17	H	242	PRO	C-O	-5.74	1.18	1.24
25	P	164	GLN	CA-C	5.74	1.60	1.52
18	I	235	ALA	N-CA	-5.74	1.39	1.46
18	I	382	THR	CA-C	5.74	1.60	1.52
15	F	54	ASP	N-CA	-5.74	1.39	1.46
16	G	229	PHE	N-CA	-5.74	1.38	1.45
21	L	159	LEU	C-N	5.74	1.40	1.33
32	W	170	HIS	CE1-NE2	5.74	1.38	1.32
4	4	73	GLU	N-CA	5.73	1.53	1.46
11	B	53	SER	N-CA	-5.73	1.40	1.46
5	5	100	MET	N-CA	-5.73	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	A	86	PRO	N-CD	5.73	1.55	1.47
11	B	122	THR	C-N	5.73	1.41	1.33
26	Q	149	LYS	CA-C	-5.73	1.45	1.52
3	3	36	HIS	CA-C	-5.73	1.45	1.52
26	Q	110	SER	CA-C	-5.73	1.45	1.52
3	3	53	THR	C-N	5.72	1.41	1.33
7	7	175	VAL	N-CA	-5.72	1.39	1.46
11	B	143	ASN	C-N	5.72	1.41	1.33
10	A	206	ALA	C-N	5.72	1.41	1.33
17	H	226	GLU	CA-C	-5.72	1.45	1.52
26	Q	301	ALA	N-CA	-5.72	1.39	1.46
27	R	188	LYS	N-CA	-5.72	1.39	1.46
25	P	144	VAL	N-CA	-5.72	1.39	1.46
13	D	233	VAL	N-CA	5.72	1.53	1.46
25	P	433	ILE	C-O	-5.72	1.17	1.24
29	T	72	THR	C-N	5.72	1.42	1.33
32	W	53	SER	CA-CB	5.72	1.63	1.53
19	J	140	GLU	N-CA	-5.71	1.39	1.46
20	K	207	ARG	CA-C	-5.71	1.44	1.52
32	W	33	VAL	C-N	5.71	1.40	1.33
16	G	164	THR	CA-C	-5.71	1.45	1.52
5	5	112	ILE	N-CA	5.71	1.53	1.46
18	I	247	ILE	CA-C	-5.71	1.45	1.52
18	I	395	MET	N-CA	-5.71	1.39	1.46
27	R	57	GLU	CA-C	-5.71	1.45	1.52
19	J	93	LYS	CA-C	-5.71	1.45	1.52
28	S	290	ASN	N-CA	-5.71	1.39	1.46
21	L	232	ALA	C-N	5.70	1.41	1.33
32	W	171	LEU	N-CA	-5.70	1.39	1.46
28	S	301	PRO	N-CD	5.70	1.55	1.47
3	3	75	PRO	N-CD	5.70	1.55	1.47
3	3	112	ILE	N-CA	5.70	1.52	1.46
22	M	398	ALA	CA-C	5.69	1.60	1.52
7	7	114	ASN	N-CA	-5.69	1.38	1.46
26	Q	176	ASP	CA-C	-5.69	1.45	1.52
27	R	77	SER	C-N	5.69	1.38	1.33
35	Z	584	VAL	CA-C	-5.69	1.45	1.52
7	7	80	GLU	C-N	5.68	1.41	1.34
28	S	266	SER	N-CA	-5.68	1.39	1.46
6	6	53	ASP	N-CA	-5.68	1.39	1.46
25	P	271	SER	C-N	5.68	1.41	1.34
27	R	308	LEU	C-N	5.68	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	N	89	PHE	N-CA	-5.68	1.39	1.46
23	N	420	THR	CA-C	-5.67	1.45	1.52
35	Z	570	LEU	CA-C	-5.67	1.45	1.52
35	Z	812	ILE	C-N	5.67	1.41	1.33
1	1	40	LYS	C-N	5.67	1.40	1.33
15	F	48	ALA	CA-C	-5.67	1.45	1.52
28	S	330	LEU	CA-C	-5.67	1.46	1.52
28	S	310	LEU	C-N	5.67	1.41	1.33
6	6	85	GLN	CA-C	-5.67	1.45	1.52
23	N	446	ALA	CA-C	-5.67	1.45	1.52
13	D	187	THR	CA-C	-5.66	1.45	1.52
22	M	130	PRO	N-CA	5.66	1.52	1.46
1	1	159	LEU	CA-C	-5.66	1.45	1.52
20	K	102	PRO	C-N	5.66	1.40	1.33
25	P	300	VAL	C-N	5.66	1.41	1.33
7	7	174	ARG	C-N	5.66	1.41	1.33
20	K	202	GLY	C-N	5.66	1.41	1.33
5	5	67	GLU	C-N	5.66	1.42	1.33
10	A	204	GLU	N-CA	5.66	1.53	1.46
13	D	89	ALA	C-N	5.66	1.41	1.33
15	F	61	LYS	N-CA	-5.66	1.39	1.46
18	I	207	LEU	C-O	-5.66	1.17	1.24
35	Z	836	SER	C-N	5.66	1.41	1.33
11	B	241	GLN	C-N	5.65	1.41	1.33
15	F	222	PHE	N-CA	5.65	1.53	1.46
17	H	443	PHE	C-N	5.65	1.41	1.33
10	A	154	ILE	C-O	5.65	1.29	1.24
35	Z	516	THR	CA-C	-5.65	1.45	1.53
28	S	376	THR	CA-C	-5.65	1.47	1.53
25	P	419	VAL	CA-C	-5.64	1.46	1.52
29	T	168	SER	C-N	5.64	1.41	1.34
33	X	37	PRO	CA-C	5.64	1.60	1.52
23	N	655	ALA	N-CA	-5.64	1.39	1.46
17	H	443	PHE	N-CA	-5.64	1.39	1.46
21	L	128	ILE	CA-C	-5.63	1.45	1.52
7	7	40	ASN	N-CA	-5.63	1.39	1.46
23	N	588	VAL	N-CA	5.63	1.53	1.46
14	E	112	LEU	C-N	5.63	1.41	1.33
16	G	64	VAL	C-N	5.63	1.41	1.33
19	J	292	MET	CA-C	-5.63	1.45	1.52
23	N	734	VAL	CA-C	-5.63	1.45	1.52
26	Q	89	ALA	CA-C	-5.63	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	Z	53	VAL	N-CA	-5.63	1.40	1.46
35	Z	930	GLY	CA-C	5.63	1.61	1.51
23	N	593	PHE	N-CA	-5.63	1.39	1.46
27	R	129	GLU	N-CA	-5.63	1.39	1.46
19	J	362	CYS	C-N	5.63	1.41	1.33
23	N	225	LEU	CA-C	5.63	1.60	1.52
20	K	329	LEU	C-N	5.62	1.41	1.33
35	Z	901	PHE	N-CA	-5.62	1.39	1.46
10	A	44	ALA	CA-C	-5.62	1.45	1.52
4	4	181	LYS	C-N	5.62	1.40	1.33
23	N	621	THR	C-N	5.62	1.41	1.33
35	Z	987	PRO	N-CD	5.62	1.55	1.47
21	L	338	LEU	C-N	5.62	1.43	1.33
29	T	61	ILE	C-N	5.62	1.41	1.33
17	H	452	SER	N-CA	-5.62	1.39	1.46
2	2	201	LYS	CA-C	-5.62	1.45	1.52
16	G	19	ARG	CA-C	-5.62	1.46	1.52
29	T	10	SER	CA-C	-5.62	1.45	1.52
18	I	161	GLN	N-CA	-5.61	1.38	1.46
21	L	218	VAL	C-O	-5.61	1.18	1.24
12	C	219	GLY	C-N	5.61	1.41	1.33
25	P	132	VAL	N-CA	-5.61	1.39	1.46
22	M	80	ALA	CA-C	-5.61	1.45	1.52
17	H	69	VAL	N-CA	-5.61	1.40	1.46
28	S	130	VAL	CA-C	5.61	1.59	1.52
16	G	228	LYS	N-CA	-5.61	1.38	1.45
21	L	230	LEU	N-CA	5.61	1.53	1.46
27	R	420	ALA	CA-C	-5.61	1.45	1.52
10	A	216	THR	N-CA	-5.60	1.38	1.45
10	A	80	GLY	C-N	5.60	1.41	1.33
5	5	50	ALA	C-N	5.59	1.40	1.33
13	D	206	GLY	N-CA	-5.59	1.37	1.45
14	E	156	PHE	C-N	5.59	1.41	1.33
30	U	55	PRO	N-CD	5.59	1.55	1.47
30	U	113	TYR	CZ-OH	5.59	1.49	1.38
1	1	183	VAL	CA-C	-5.59	1.45	1.52
7	7	90	THR	C-N	5.59	1.41	1.33
18	I	245	LEU	N-CA	-5.59	1.39	1.46
25	P	74	ASP	C-N	5.59	1.41	1.33
13	D	72	VAL	N-CA	-5.59	1.39	1.46
15	F	233	TYR	CA-C	-5.59	1.45	1.52
16	G	57	LEU	CA-C	-5.59	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	R	310	GLU	N-CA	-5.59	1.39	1.46
1	1	97	ILE	N-CA	5.59	1.52	1.46
10	A	107	LYS	CA-C	-5.59	1.45	1.52
4	4	88	ALA	C-N	5.59	1.41	1.33
23	N	95	SER	C-N	5.59	1.41	1.33
23	N	749	LEU	C-N	5.58	1.41	1.34
17	H	61	ALA	CA-C	-5.58	1.45	1.52
19	J	55	VAL	N-CA	5.58	1.53	1.46
19	J	124	LYS	CA-C	-5.58	1.45	1.52
22	M	374	ILE	N-CA	-5.58	1.39	1.46
26	Q	108	PRO	N-CD	5.58	1.55	1.47
26	Q	366	ILE	C-N	5.58	1.41	1.33
2	2	191	LEU	N-CA	-5.58	1.39	1.46
30	U	50	ASN	N-CA	-5.58	1.39	1.46
11	B	24	ALA	C-O	-5.57	1.17	1.24
11	B	83	ARG	C-N	5.57	1.40	1.33
19	J	88	VAL	CA-C	-5.57	1.45	1.52
12	C	187	ASP	CA-C	-5.57	1.45	1.52
26	Q	364	LYS	CA-C	-5.57	1.45	1.52
2	2	40	LYS	N-CA	-5.57	1.39	1.46
3	3	-5	SER	C-N	5.57	1.40	1.33
35	Z	879	ALA	C-N	5.56	1.41	1.33
11	B	78	MET	N-CA	-5.56	1.39	1.46
12	C	48	ALA	N-CA	-5.56	1.39	1.46
21	L	214	PRO	CA-C	-5.56	1.48	1.51
12	C	180	TYR	C-N	5.56	1.40	1.33
15	F	111	LEU	CA-C	-5.56	1.45	1.52
19	J	153	LEU	N-CA	-5.56	1.39	1.46
7	7	101	PRO	N-CD	5.56	1.55	1.47
19	J	328	LEU	CA-C	-5.56	1.45	1.52
29	T	7	LEU	N-CA	5.56	1.53	1.46
27	R	149	ASN	CA-C	-5.55	1.45	1.52
21	L	120	LYS	CA-C	-5.55	1.45	1.52
25	P	429	ILE	CA-C	-5.55	1.46	1.52
25	P	358	SER	N-CA	-5.55	1.39	1.46
2	2	158	ALA	C-N	5.55	1.40	1.33
4	4	37	LEU	CA-C	-5.55	1.45	1.52
10	A	81	MET	C-N	5.55	1.40	1.33
20	K	90	GLN	CA-C	5.55	1.59	1.53
23	N	338	PHE	C-N	5.55	1.41	1.33
15	F	172	LEU	C-O	-5.55	1.17	1.24
23	N	318	LYS	CA-C	-5.55	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	P	103	TYR	C-N	5.55	1.41	1.33
33	X	60	GLU	CA-C	-5.54	1.45	1.52
1	1	12	VAL	N-CA	-5.54	1.39	1.46
23	N	923	MET	CA-C	-5.54	1.45	1.52
20	K	301	THR	N-CA	-5.54	1.39	1.46
23	N	353	LEU	N-CA	-5.54	1.38	1.46
27	R	315	VAL	CA-C	-5.54	1.47	1.52
28	S	423	VAL	CA-C	5.54	1.60	1.52
35	Z	893	PHE	C-N	5.54	1.39	1.33
18	I	111	GLU	N-CA	-5.54	1.39	1.46
35	Z	481	PRO	N-CD	5.54	1.55	1.47
10	A	160	ALA	C-N	5.54	1.40	1.33
16	G	241	PHE	CA-C	-5.54	1.45	1.52
35	Z	539	ASN	CA-C	-5.54	1.46	1.52
35	Z	966	GLU	CA-C	-5.54	1.45	1.52
14	E	65	GLU	CA-C	-5.53	1.46	1.52
21	L	371	THR	CA-C	-5.53	1.46	1.52
25	P	61	LYS	CA-C	5.53	1.59	1.52
31	V	248	ALA	N-CA	5.53	1.53	1.46
14	E	174	SER	N-CA	-5.53	1.39	1.46
17	H	208	TYR	N-CA	-5.53	1.39	1.46
20	K	142	HIS	CA-C	-5.53	1.45	1.52
26	Q	112	ASP	N-CA	-5.53	1.39	1.46
7	7	182	ARG	CA-C	-5.53	1.45	1.52
23	N	650	ASP	CA-C	-5.53	1.45	1.52
26	Q	358	GLU	CA-C	-5.53	1.46	1.52
33	X	9	LYS	N-CA	5.53	1.52	1.46
12	C	130	PRO	N-CD	5.53	1.55	1.47
35	Z	971	ILE	N-CA	-5.53	1.39	1.46
21	L	342	ARG	CA-C	-5.53	1.44	1.52
27	R	126	GLY	N-CA	-5.53	1.38	1.45
19	J	288	ILE	C-O	5.52	1.30	1.24
23	N	227	LYS	CA-C	-5.52	1.45	1.52
30	U	37	ILE	C-N	5.52	1.40	1.33
19	J	347	ALA	CA-C	-5.52	1.45	1.52
30	U	208	VAL	N-CA	5.52	1.52	1.46
18	I	389	GLY	C-N	5.51	1.41	1.33
2	2	76	VAL	C-N	5.51	1.40	1.34
11	B	5	TYR	CA-C	-5.51	1.45	1.52
30	U	229	LEU	C-N	5.51	1.41	1.33
12	C	190	ILE	C-N	5.51	1.40	1.33
12	C	212	GLU	N-CA	-5.51	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	N	490	LEU	C-N	5.51	1.41	1.33
26	Q	280	ASN	C-N	5.51	1.40	1.33
12	C	91	ALA	CA-C	-5.51	1.45	1.52
14	E	73	HIS	C-N	5.51	1.40	1.33
27	R	179	PHE	C-N	5.51	1.41	1.33
2	2	140	SER	C-N	5.51	1.42	1.33
6	6	3	ILE	CA-C	-5.51	1.46	1.52
21	L	333	LEU	CA-C	-5.51	1.45	1.52
29	T	75	PHE	C-N	5.51	1.41	1.33
6	6	32	PRO	CA-C	-5.50	1.46	1.52
17	H	315	GLY	CA-C	-5.50	1.44	1.51
5	5	20	ALA	CA-C	-5.50	1.45	1.52
14	E	77	ALA	CA-C	-5.50	1.46	1.52
15	F	183	ASP	CA-C	-5.50	1.46	1.52
21	L	96	LYS	N-CA	-5.50	1.39	1.46
26	Q	426	LEU	CA-C	-5.50	1.45	1.52
3	3	24	SER	C-N	5.50	1.41	1.33
5	5	25	TRP	C-N	5.50	1.39	1.33
12	C	195	LYS	C-O	-5.50	1.17	1.24
25	P	181	LEU	C-N	5.50	1.41	1.33
25	P	421	GLU	N-CA	-5.50	1.39	1.46
24	O	325	GLU	CA-C	-5.49	1.45	1.52
26	Q	63	GLN	C-N	5.49	1.42	1.33
31	V	138	ALA	CA-C	-5.49	1.46	1.52
6	6	133	ALA	N-CA	-5.49	1.39	1.46
15	F	114	ASP	C-O	5.49	1.30	1.24
18	I	339	ILE	C-N	5.49	1.45	1.33
21	L	113	SER	CA-C	-5.49	1.46	1.52
25	P	181	LEU	N-CA	5.49	1.53	1.46
30	U	262	GLN	C-N	5.49	1.40	1.33
31	V	293	VAL	C-N	5.49	1.41	1.33
16	G	58	LEU	C-N	5.49	1.37	1.32
7	7	87	TYR	C-N	5.49	1.40	1.33
14	E	145	ALA	CA-C	-5.49	1.46	1.52
15	F	165	SER	N-CA	-5.49	1.39	1.46
11	B	208	THR	CA-C	-5.49	1.45	1.53
19	J	193	THR	N-CA	-5.49	1.40	1.46
7	7	179	ARG	C-N	5.48	1.40	1.33
22	M	306	LEU	CA-C	-5.48	1.45	1.52
25	P	65	LEU	CA-C	5.48	1.60	1.52
12	C	39	MET	CA-C	-5.48	1.46	1.52
23	N	566	SER	C-N	5.48	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	N	738	GLN	C-N	5.48	1.41	1.33
13	D	197	ARG	C-N	5.48	1.41	1.33
21	L	172	SER	N-CA	5.48	1.52	1.46
7	7	45	ILE	N-CA	-5.47	1.39	1.46
23	N	592	GLY	CA-C	5.47	1.58	1.52
1	1	108	GLY	C-N	5.47	1.41	1.33
16	G	22	GLN	C-N	5.47	1.40	1.33
25	P	166	GLU	N-CA	-5.47	1.39	1.46
25	P	295	SER	N-CA	5.46	1.52	1.46
29	T	133	ILE	N-CA	-5.46	1.39	1.46
23	N	891	VAL	CA-C	-5.46	1.48	1.52
30	U	283	ARG	CA-C	-5.46	1.45	1.52
11	B	139	HIS	CA-C	5.46	1.59	1.52
27	R	411	LEU	CA-C	-5.46	1.45	1.52
28	S	127	THR	C-N	5.46	1.40	1.33
34	Y	74	THR	CA-C	-5.46	1.45	1.52
7	7	180	ASP	CA-C	-5.46	1.46	1.52
15	F	79	PRO	N-CD	5.46	1.55	1.47
25	P	41	VAL	C-N	5.46	1.41	1.33
11	B	207	ASP	N-CA	-5.46	1.39	1.46
18	I	147	VAL	CA-C	-5.46	1.46	1.52
18	I	294	SER	CA-C	-5.46	1.46	1.52
6	6	-7	ASN	CA-C	-5.45	1.46	1.52
19	J	314	ILE	N-CA	-5.45	1.39	1.46
26	Q	365	ILE	N-CA	-5.45	1.39	1.46
35	Z	904	LEU	C-N	5.45	1.41	1.33
32	W	86	HIS	CE1-NE2	5.45	1.38	1.32
17	H	58	ASP	N-CA	-5.45	1.39	1.46
18	I	108	THR	CA-C	5.45	1.59	1.52
35	Z	862	MET	CA-C	-5.45	1.46	1.52
35	Z	850	LEU	CA-C	5.45	1.60	1.52
19	J	229	MET	C-N	5.45	1.40	1.33
19	J	250	ILE	CA-C	-5.45	1.45	1.52
11	B	19	GLY	C-O	-5.45	1.16	1.23
21	L	219	LEU	CA-C	-5.45	1.46	1.52
25	P	344	ARG	CA-C	-5.45	1.45	1.52
35	Z	469	PRO	C-N	5.45	1.41	1.33
1	1	100	ALA	CA-C	-5.44	1.46	1.52
12	C	170	SER	N-CA	5.44	1.52	1.46
20	K	99	PHE	CA-C	-5.44	1.45	1.52
35	Z	76	LYS	CA-C	-5.44	1.45	1.52
20	K	190	LEU	C-O	-5.44	1.19	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	N	106	ILE	C-N	5.44	1.40	1.33
23	N	579	SER	C-N	5.44	1.41	1.33
3	3	79	THR	C-N	5.44	1.41	1.33
14	E	97	VAL	CA-C	-5.44	1.45	1.52
16	G	117	GLN	C-N	5.44	1.41	1.33
4	4	69	ARG	N-CA	-5.44	1.39	1.46
21	L	199	LEU	C-N	5.44	1.40	1.34
3	3	61	LYS	C-N	5.43	1.41	1.33
14	E	81	LEU	CA-C	-5.43	1.45	1.52
20	K	107	THR	N-CA	-5.43	1.39	1.46
6	6	145	VAL	CA-C	-5.43	1.45	1.52
35	Z	106	TRP	N-CA	-5.43	1.39	1.46
12	C	95	ALA	CA-C	-5.43	1.46	1.52
13	D	146	LYS	CA-C	5.43	1.59	1.52
1	1	116	GLY	N-CA	-5.42	1.37	1.45
15	F	169	LYS	CA-C	-5.42	1.45	1.52
15	F	226	ASP	N-CA	-5.42	1.39	1.46
17	H	357	ARG	N-CA	5.42	1.52	1.45
23	N	586	ALA	C-O	-5.42	1.17	1.24
1	1	-7	LYS	N-CA	-5.42	1.39	1.46
5	5	146	TRP	N-CA	5.42	1.52	1.46
12	C	189	ALA	C-N	5.42	1.40	1.33
14	E	85	ALA	N-CA	-5.42	1.39	1.46
17	H	57	LYS	N-CA	-5.42	1.39	1.46
17	H	287	GLY	CA-C	-5.42	1.46	1.52
25	P	202	LYS	N-CA	5.42	1.52	1.46
1	1	10	ASP	C-N	5.42	1.41	1.33
4	4	148	ARG	N-CA	-5.42	1.39	1.46
7	7	175	VAL	CA-C	-5.42	1.45	1.52
11	B	124	SER	CA-C	-5.42	1.46	1.52
18	I	159	VAL	CA-C	5.42	1.59	1.52
32	W	69	PHE	N-CA	-5.42	1.38	1.46
35	Z	847	ILE	C-N	5.42	1.41	1.33
6	6	109	GLY	C-N	5.42	1.40	1.33
21	L	196	VAL	N-CA	-5.42	1.39	1.46
22	M	200	PRO	N-CD	5.41	1.55	1.47
28	S	273	PHE	C-N	5.41	1.40	1.33
15	F	22	VAL	N-CA	-5.41	1.39	1.46
4	4	17	SER	N-CA	5.41	1.52	1.46
5	5	180	VAL	C-N	5.41	1.40	1.33
21	L	85	GLU	C-N	5.41	1.41	1.33
30	U	84	ASN	CA-C	-5.41	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2	136	ALA	C-N	5.41	1.40	1.33
15	F	195	GLU	CA-C	-5.41	1.45	1.52
17	H	292	ARG	CA-C	5.41	1.59	1.52
29	T	9	LYS	N-CA	5.41	1.52	1.46
13	D	45	GLY	N-CA	-5.40	1.39	1.46
19	J	379	GLN	CA-C	-5.40	1.45	1.52
5	5	146	TRP	CA-C	-5.40	1.45	1.52
6	6	97	TYR	CA-C	-5.40	1.46	1.53
6	6	99	HIS	CA-C	-5.40	1.46	1.52
23	N	523	LEU	N-CA	5.40	1.52	1.46
27	R	365	ASP	N-CA	-5.40	1.40	1.46
16	G	143	ASN	N-CA	-5.40	1.39	1.46
22	M	193	LEU	C-N	5.40	1.40	1.33
7	7	201	LYS	N-CA	-5.40	1.39	1.46
16	G	14	PHE	C-N	5.40	1.41	1.33
19	J	76	ILE	N-CA	-5.40	1.40	1.46
25	P	414	GLU	C-N	5.40	1.40	1.33
26	Q	95	LYS	C-N	5.40	1.40	1.33
33	X	68	LEU	C-N	5.40	1.38	1.33
6	6	12	ALA	N-CA	-5.40	1.39	1.46
5	5	205	GLY	CA-C	-5.39	1.44	1.51
11	B	32	VAL	CA-C	-5.39	1.46	1.52
12	C	232	PRO	C-N	5.39	1.41	1.34
22	M	350	PRO	N-CD	5.39	1.55	1.47
25	P	90	LYS	CA-CB	5.39	1.62	1.53
3	3	127	PHE	N-CA	-5.39	1.39	1.45
23	N	80	LYS	CA-C	-5.39	1.45	1.52
28	S	219	LYS	CA-C	-5.39	1.45	1.52
1	1	27	ALA	N-CA	-5.39	1.39	1.46
7	7	183	SER	C-N	5.39	1.40	1.33
23	N	206	ILE	CA-C	5.39	1.60	1.52
29	T	144	TYR	N-CA	5.39	1.51	1.46
14	E	153	TYR	C-N	5.39	1.40	1.33
23	N	336	ASN	N-CA	-5.39	1.40	1.46
4	4	4	LEU	CA-C	-5.38	1.46	1.52
12	C	209	ASP	N-CA	-5.38	1.40	1.46
22	M	412	HIS	CA-C	-5.38	1.45	1.52
35	Z	479	THR	N-CA	5.38	1.52	1.46
13	D	12	SER	CA-C	-5.38	1.44	1.52
18	I	167	MET	CA-C	5.38	1.61	1.52
19	J	178	GLY	C-N	5.38	1.40	1.33
26	Q	334	HIS	N-CA	-5.38	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	R	55	LYS	CA-C	5.38	1.59	1.52
17	H	63	ILE	C-N	5.38	1.41	1.33
2	2	24	PRO	N-CD	5.38	1.55	1.47
13	D	217	PRO	N-CD	5.38	1.55	1.47
27	R	76	GLN	C-N	5.38	1.40	1.33
11	B	114	VAL	CA-C	-5.38	1.45	1.52
13	D	113	VAL	CA-C	-5.38	1.45	1.52
23	N	253	LEU	N-CA	-5.38	1.40	1.46
26	Q	295	GLY	CA-C	-5.38	1.46	1.52
19	J	395	GLU	N-CA	5.38	1.53	1.46
23	N	387	ALA	N-CA	5.38	1.51	1.46
31	V	188	LEU	N-CA	-5.38	1.39	1.46
10	A	17	THR	C-N	5.37	1.40	1.33
11	B	127	VAL	N-CA	-5.37	1.39	1.46
25	P	173	MET	C-N	5.37	1.41	1.33
3	3	179	TYR	CA-C	-5.37	1.46	1.52
10	A	50	CYS	CA-C	-5.37	1.45	1.52
10	A	98	LYS	N-CA	-5.37	1.39	1.46
23	N	904	VAL	N-CA	5.37	1.52	1.46
1	1	111	TYR	CA-C	-5.37	1.46	1.52
11	B	66	LEU	C-N	5.37	1.41	1.33
35	Z	534	PHE	CA-C	-5.37	1.45	1.52
2	2	2	THR	CA-C	-5.37	1.46	1.52
14	E	131	GLU	CA-C	-5.37	1.46	1.53
14	E	225	GLN	C-O	5.37	1.31	1.24
17	H	322	GLY	CA-C	-5.37	1.44	1.52
35	Z	903	MET	N-CA	-5.37	1.39	1.46
30	U	307	LYS	CA-C	-5.36	1.45	1.52
25	P	241	LEU	CA-C	-5.36	1.45	1.52
6	6	113	VAL	C-O	-5.36	1.18	1.24
20	K	202	GLY	N-CA	-5.36	1.37	1.45
22	M	290	ARG	N-CA	-5.36	1.39	1.46
1	1	56	ALA	N-CA	-5.36	1.39	1.46
15	F	118	LYS	CA-C	-5.36	1.45	1.52
4	4	176	LYS	CA-C	-5.36	1.48	1.53
14	E	201	LEU	C-N	5.36	1.40	1.33
21	L	216	LYS	CA-C	-5.36	1.45	1.52
35	Z	432	GLY	N-CA	5.36	1.52	1.45
11	B	236	ARG	N-CA	-5.35	1.39	1.46
22	M	285	ALA	C-N	5.35	1.40	1.33
22	M	346	LYS	CA-C	-5.35	1.46	1.52
28	S	380	CYS	C-N	5.35	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	55	ILE	CA-C	-5.35	1.46	1.52
12	C	110	ILE	C-N	5.35	1.41	1.33
22	M	79	VAL	CA-C	-5.35	1.46	1.53
25	P	395	ARG	C-N	-5.35	1.28	1.34
30	U	272	GLU	CA-C	5.35	1.59	1.52
35	Z	387	ASN	C-N	5.35	1.41	1.33
22	M	241	ALA	CA-C	-5.35	1.45	1.52
23	N	410	LEU	N-CA	-5.35	1.40	1.46
32	W	12	ASN	C-N	5.35	1.41	1.33
35	Z	927	VAL	CA-C	-5.35	1.46	1.52
10	A	49	ASP	N-CA	-5.35	1.41	1.46
10	A	193	HIS	CA-C	-5.35	1.46	1.52
23	N	393	SER	CA-C	-5.35	1.46	1.52
14	E	58	LEU	N-CA	-5.34	1.40	1.46
25	P	82	LEU	N-CA	5.34	1.53	1.46
25	P	320	PRO	CA-C	-5.34	1.45	1.52
10	A	194	ILE	CA-C	-5.34	1.47	1.52
2	2	8	PHE	C-N	5.34	1.41	1.33
16	G	98	PHE	C-N	5.34	1.41	1.33
26	Q	138	SER	CA-C	5.34	1.60	1.52
2	2	132	LEU	CA-C	-5.34	1.46	1.52
22	M	251	LEU	C-N	-5.34	1.26	1.33
28	S	368	LYS	N-CA	-5.34	1.39	1.46
4	4	169	LYS	CA-C	-5.33	1.46	1.52
13	D	97	ARG	C-N	5.33	1.40	1.33
20	K	230	THR	CA-C	5.33	1.59	1.52
10	A	250	GLU	N-CA	-5.33	1.39	1.46
24	O	382	LYS	C-N	5.33	1.40	1.33
14	E	238	GLU	C-N	5.33	1.41	1.33
20	K	155	ASP	C-N	5.33	1.40	1.33
31	V	44	GLY	C-N	5.33	1.39	1.33
1	1	-4	VAL	N-CA	-5.33	1.40	1.46
6	6	95	PRO	N-CD	5.33	1.55	1.47
12	C	49	GLU	N-CA	-5.33	1.39	1.46
13	D	145	PRO	C-N	5.33	1.41	1.33
18	I	332	GLU	C-N	5.33	1.41	1.33
27	R	360	SER	C-N	5.33	1.40	1.33
35	Z	865	ASP	C-N	5.32	1.39	1.33
19	J	272	MET	CA-C	-5.32	1.45	1.52
31	V	108	TYR	CA-C	-5.32	1.46	1.52
6	6	164	LYS	C-N	5.32	1.41	1.33
17	H	238	LEU	C-N	5.32	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	V	182	LYS	CA-C	-5.32	1.46	1.52
18	I	339	ILE	CA-C	-5.32	1.46	1.52
21	L	239	ILE	CA-C	-5.32	1.44	1.52
23	N	126	LYS	CA-C	-5.32	1.46	1.52
13	D	67	ILE	CA-C	-5.32	1.45	1.53
13	D	208	LYS	CA-C	-5.32	1.45	1.52
18	I	326	MET	CA-C	-5.32	1.46	1.52
19	J	184	GLY	CA-C	-5.32	1.46	1.51
25	P	364	ARG	CA-C	-5.32	1.46	1.52
26	Q	262	LEU	C-N	5.32	1.41	1.33
29	T	86	LYS	C-O	-5.32	1.19	1.24
19	J	93	LYS	C-N	5.31	1.40	1.33
3	3	105	SER	CA-C	-5.31	1.46	1.53
13	D	44	LEU	CA-C	-5.31	1.46	1.52
14	E	237	ALA	C-N	5.31	1.41	1.33
23	N	19	SER	CA-C	-5.31	1.45	1.52
4	4	63	ILE	C-N	5.31	1.41	1.34
12	C	188	ASP	N-CA	-5.31	1.39	1.46
22	M	229	THR	CA-C	-5.31	1.46	1.52
23	N	414	GLY	CA-C	-5.31	1.44	1.51
4	4	51	ASP	C-N	5.31	1.40	1.33
14	E	54	ALA	CA-C	-5.31	1.45	1.52
14	E	185	ASN	CA-C	-5.31	1.45	1.52
34	Y	81	LEU	C-O	-5.31	1.18	1.24
25	P	219	GLU	C-N	5.31	1.41	1.33
26	Q	243	PHE	C-N	5.31	1.40	1.33
16	G	137	PHE	C-N	5.30	1.38	1.32
33	X	126	ILE	CA-C	-5.30	1.46	1.52
21	L	214	PRO	C-N	5.30	1.40	1.33
27	R	367	ASP	CA-C	-5.30	1.45	1.52
10	A	143	PHE	CA-C	5.30	1.59	1.52
21	L	422	VAL	C-N	5.30	1.41	1.33
35	Z	789	GLN	C-N	5.30	1.41	1.34
7	7	14	ILE	CA-C	-5.30	1.46	1.52
26	Q	156	ALA	C-O	-5.30	1.18	1.24
6	6	151	TYR	CA-C	-5.30	1.46	1.52
11	B	106	PRO	N-CD	5.30	1.55	1.47
11	B	218	ASN	N-CA	5.30	1.50	1.45
14	E	100	ASN	N-CA	5.30	1.52	1.46
15	F	131	GLY	CA-C	5.30	1.59	1.51
22	M	54	GLU	N-CA	5.30	1.52	1.46
19	J	76	ILE	CA-C	-5.29	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	N	223	LEU	N-CA	-5.29	1.40	1.46
11	B	116	LYS	CA-C	-5.29	1.46	1.52
13	D	123	SER	C-N	5.29	1.38	1.33
17	H	428	MET	CA-C	5.29	1.59	1.52
23	N	89	PHE	CA-C	5.29	1.58	1.52
31	V	117	TRP	C-N	5.29	1.40	1.33
35	Z	606	CYS	C-O	-5.29	1.18	1.24
12	C	189	ALA	CA-C	-5.29	1.46	1.52
28	S	286	TYR	N-CA	-5.29	1.39	1.46
7	7	193	ASP	N-CA	-5.29	1.39	1.46
18	I	383	THR	C-O	-5.29	1.17	1.24
23	N	418	ASP	CA-C	-5.29	1.46	1.52
28	S	302	HIS	N-CA	-5.29	1.39	1.45
12	C	73	ILE	C-O	-5.29	1.18	1.24
20	K	295	ILE	C-N	5.29	1.40	1.33
35	Z	966	GLU	C-N	5.29	1.40	1.33
1	1	184	GLU	CA-C	-5.28	1.46	1.52
17	H	338	THR	C-O	-5.28	1.18	1.24
19	J	140	GLU	C-N	5.28	1.40	1.33
20	K	146	LEU	C-O	-5.28	1.17	1.24
23	N	92	ASP	C-N	5.28	1.40	1.33
23	N	641	LEU	N-CA	5.28	1.53	1.46
2	2	206	PRO	N-CD	5.28	1.55	1.47
13	D	19	GLN	C-N	5.28	1.40	1.33
20	K	223	VAL	C-N	5.28	1.40	1.33
29	T	86	LYS	N-CA	-5.28	1.40	1.46
11	B	163	ALA	N-CA	-5.28	1.39	1.45
18	I	313	LEU	CA-C	-5.28	1.46	1.52
25	P	69	ARG	CA-C	5.28	1.59	1.52
25	P	91	LEU	CA-CB	5.28	1.62	1.53
30	U	79	MET	CA-CB	5.28	1.61	1.53
35	Z	391	ASN	C-N	5.28	1.41	1.33
3	3	74	GLU	CA-C	5.28	1.59	1.52
12	C	109	GLU	CA-C	5.28	1.59	1.52
27	R	252	TYR	C-N	5.28	1.40	1.33
7	7	1	THR	CA-C	-5.27	1.46	1.52
11	B	43	VAL	C-N	5.27	1.40	1.33
13	D	103	PRO	N-CA	-5.27	1.40	1.47
4	4	171	MET	C-N	5.27	1.37	1.33
2	2	105	PRO	N-CD	5.27	1.55	1.47
18	I	360	LYS	N-CA	-5.27	1.40	1.46
19	J	141	LYS	C-N	5.27	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	M	292	ASP	N-CA	-5.27	1.39	1.45
19	J	305	LEU	CA-C	-5.27	1.45	1.52
27	R	43	ARG	N-CA	-5.27	1.39	1.46
17	H	273	ARG	CA-C	-5.27	1.46	1.52
2	2	183	ASP	CA-C	-5.26	1.46	1.52
4	4	60	GLN	CA-C	-5.26	1.46	1.52
7	7	125	LEU	N-CA	-5.26	1.39	1.46
18	I	352	ASN	C-O	-5.26	1.17	1.24
19	J	132	PRO	C-N	5.26	1.41	1.33
25	P	257	TRP	CA-C	-5.26	1.46	1.52
3	3	91	PHE	N-CA	-5.26	1.39	1.46
22	M	339	ARG	C-N	5.26	1.40	1.33
26	Q	31	LEU	CA-C	-5.26	1.46	1.52
29	T	102	LYS	CA-C	-5.26	1.46	1.52
12	C	163	ILE	CA-C	-5.26	1.46	1.52
14	E	45	GLY	N-CA	-5.26	1.39	1.45
16	G	65	LYS	CA-C	-5.26	1.45	1.52
18	I	175	LYS	CA-C	-5.26	1.46	1.52
25	P	250	ILE	N-CA	5.26	1.52	1.46
11	B	219	PRO	N-CD	5.26	1.55	1.47
12	C	8	SER	CA-C	-5.26	1.45	1.52
23	N	570	ARG	N-CA	-5.26	1.40	1.46
27	R	334	ARG	N-CA	5.26	1.52	1.46
28	S	269	GLU	CA-C	-5.26	1.46	1.52
35	Z	511	PRO	C-O	-5.26	1.18	1.24
3	3	42	LEU	C-N	5.26	1.39	1.32
7	7	20	GLY	C-N	5.26	1.40	1.33
28	S	193	THR	C-O	-5.25	1.17	1.24
29	T	227	PRO	N-CD	5.25	1.55	1.47
13	D	92	GLU	C-O	5.25	1.30	1.24
16	G	69	VAL	C-O	-5.25	1.18	1.24
19	J	200	ARG	C-N	5.25	1.40	1.33
19	J	274	GLU	CA-C	-5.25	1.46	1.52
27	R	220	ALA	CA-C	-5.25	1.46	1.52
5	5	89	GLN	C-O	5.25	1.30	1.24
11	B	105	PRO	CA-C	-5.25	1.47	1.52
15	F	125	GLY	N-CA	-5.25	1.38	1.45
26	Q	121	SER	C-N	5.25	1.40	1.33
17	H	407	ILE	CA-C	5.25	1.59	1.52
23	N	782	PHE	C-N	5.25	1.40	1.33
31	V	107	TRP	N-CA	-5.25	1.39	1.45
11	B	73	ALA	N-CA	5.25	1.52	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	N	881	TYR	CA-C	5.25	1.59	1.52
33	X	68	LEU	CA-C	-5.25	1.46	1.52
20	K	233	ALA	N-CA	-5.24	1.39	1.46
4	4	129	TYR	CA-C	-5.24	1.45	1.52
10	A	41	ASN	CA-C	-5.24	1.46	1.52
10	A	146	VAL	CA-C	-5.24	1.47	1.52
3	3	52	THR	N-CA	5.24	1.52	1.46
7	7	29	ASN	CA-C	-5.24	1.46	1.52
25	P	231	LYS	C-N	5.24	1.41	1.33
26	Q	375	GLY	N-CA	-5.24	1.39	1.45
13	D	234	THR	CA-C	-5.24	1.46	1.52
22	M	274	ALA	CA-C	5.24	1.59	1.52
26	Q	92	LYS	C-N	5.24	1.41	1.33
32	W	43	SER	N-CA	-5.24	1.40	1.46
35	Z	906	ALA	N-CA	-5.24	1.39	1.46
23	N	517	LEU	C-N	5.23	1.40	1.33
5	5	86	LEU	C-N	5.23	1.40	1.34
6	6	170	GLU	CA-C	-5.23	1.46	1.52
19	J	348	GLU	CA-C	-5.23	1.45	1.52
20	K	181	LYS	CA-C	-5.23	1.46	1.52
21	L	299	ARG	C-N	5.23	1.41	1.33
21	L	299	ARG	N-CA	5.23	1.52	1.46
29	T	39	LEU	N-CA	-5.23	1.40	1.46
17	H	220	LYS	C-N	5.23	1.40	1.33
1	1	70	TYR	C-N	5.23	1.41	1.33
17	H	162	ARG	NE-CZ	5.23	1.38	1.33
4	4	59	ILE	C-N	5.23	1.40	1.33
11	B	7	PHE	C-N	5.23	1.40	1.33
10	A	199	TRP	C-O	-5.22	1.17	1.24
15	F	25	ALA	C-N	5.22	1.41	1.33
26	Q	251	THR	C-N	5.22	1.41	1.33
27	R	336	LYS	CA-C	-5.22	1.46	1.52
14	E	116	VAL	C-N	5.22	1.41	1.33
23	N	211	PHE	N-CA	-5.22	1.39	1.46
26	Q	79	PRO	N-CD	5.22	1.55	1.47
2	2	123	TYR	N-CA	-5.22	1.39	1.46
4	4	163	CYS	N-CA	-5.22	1.40	1.46
20	K	157	SER	CA-C	5.22	1.59	1.52
35	Z	492	GLY	CA-C	-5.22	1.46	1.52
3	3	37	TYR	C-N	5.22	1.41	1.33
5	5	39	PRO	N-CD	5.22	1.55	1.47
20	K	91	SER	C-N	5.22	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3	39	HIS	N-CA	-5.22	1.40	1.46
28	S	141	LEU	N-CA	-5.22	1.40	1.46
23	N	913	PRO	N-CA	-5.21	1.41	1.47
3	3	154	LEU	C-N	5.21	1.40	1.33
6	6	209	GLU	C-N	5.21	1.40	1.33
15	F	194	VAL	N-CA	5.21	1.52	1.46
26	Q	429	LYS	N-CA	-5.21	1.40	1.46
29	T	2	PRO	N-CD	5.21	1.55	1.47
18	I	263	LEU	C-N	5.21	1.40	1.33
21	L	324	ILE	N-CA	-5.21	1.40	1.46
25	P	211	PRO	C-N	5.21	1.41	1.33
35	Z	70	ALA	CA-C	-5.21	1.46	1.52
7	7	219	GLY	N-CA	5.20	1.51	1.45
12	C	170	SER	C-N	5.20	1.41	1.33
23	N	388	PRO	N-CA	5.20	1.53	1.47
35	Z	801	HIS	N-CA	-5.20	1.40	1.46
22	M	375	ASN	C-O	5.20	1.29	1.24
30	U	70	HIS	CG-ND1	5.20	1.44	1.38
18	I	231	LEU	C-N	5.19	1.40	1.33
35	Z	372	ALA	CA-C	-5.19	1.46	1.52
12	C	127	GLY	CA-C	-5.19	1.44	1.51
35	Z	571	GLY	C-N	5.19	1.40	1.33
23	N	531	LEU	C-N	5.19	1.41	1.33
26	Q	78	ILE	N-CA	-5.19	1.40	1.46
18	I	229	LYS	CA-C	-5.19	1.46	1.52
23	N	201	LYS	C-N	5.19	1.40	1.33
23	N	883	SER	CA-C	-5.19	1.46	1.52
23	N	101	ILE	C-N	5.19	1.40	1.33
23	N	277	LEU	C-N	5.19	1.40	1.33
13	D	57	THR	CA-C	-5.18	1.45	1.52
19	J	293	ALA	C-N	5.18	1.39	1.33
20	K	380	GLY	N-CA	-5.18	1.39	1.45
25	P	41	VAL	CA-C	-5.18	1.46	1.52
20	K	151	PRO	N-CD	5.18	1.55	1.47
25	P	364	ARG	N-CA	-5.18	1.40	1.46
27	R	145	GLY	CA-C	5.18	1.59	1.51
20	K	387	MET	N-CA	-5.18	1.40	1.46
1	1	138	CYS	C-N	5.18	1.40	1.33
14	E	44	GLU	N-CA	-5.18	1.40	1.46
20	K	77	ARG	N-CA	-5.18	1.40	1.46
7	7	103	TRP	N-CA	-5.17	1.38	1.46
13	D	119	ARG	CA-C	-5.17	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	N	460	ILE	CA-C	5.17	1.60	1.52
6	6	188	GLN	CA-C	5.17	1.59	1.52
3	3	176	ALA	CA-C	-5.17	1.46	1.52
28	S	141	LEU	C-O	-5.17	1.18	1.24
19	J	391	ASN	N-CA	-5.17	1.40	1.46
18	I	76	VAL	C-N	5.17	1.40	1.33
20	K	185	ARG	CA-C	5.17	1.59	1.52
21	L	219	LEU	C-N	5.17	1.40	1.33
23	N	495	PRO	N-CD	5.17	1.54	1.47
3	3	194	ARG	CA-C	-5.17	1.46	1.53
14	E	160	PRO	N-CD	5.17	1.54	1.47
23	N	192	LEU	CA-C	-5.17	1.46	1.52
35	Z	519	PRO	N-CA	5.17	1.53	1.47
33	X	110	PRO	N-CD	5.16	1.54	1.47
4	4	48	GLU	N-CA	-5.16	1.39	1.46
4	4	145	HIS	CD2-NE2	-5.16	1.32	1.37
20	K	134	SER	C-N	5.16	1.40	1.33
29	T	37	ASN	CA-C	-5.16	1.46	1.53
7	7	207	GLU	N-CA	-5.16	1.39	1.45
7	7	165	ALA	CA-C	-5.16	1.46	1.52
15	F	119	ASN	CA-C	5.16	1.59	1.52
19	J	160	ILE	N-CA	-5.16	1.40	1.46
24	O	311	GLU	N-CA	-5.16	1.40	1.46
29	T	121	LYS	CA-C	-5.16	1.45	1.52
35	Z	456	GLY	CA-C	5.16	1.57	1.52
26	Q	214	THR	CA-C	-5.16	1.46	1.52
17	H	390	ARG	C-N	5.15	1.40	1.33
4	4	53	VAL	CA-C	-5.15	1.46	1.52
18	I	317	ASP	CA-C	-5.15	1.46	1.52
27	R	61	PRO	N-CD	5.15	1.54	1.47
35	Z	234	PRO	C-N	5.15	1.40	1.33
16	G	186	LEU	C-N	5.15	1.40	1.33
16	G	195	ALA	CA-C	-5.15	1.46	1.52
18	I	150	HIS	CD2-NE2	-5.15	1.32	1.37
23	N	375	HIS	N-CA	-5.15	1.39	1.46
24	O	145	LYS	CA-C	5.15	1.59	1.52
20	K	194	GLN	C-N	5.15	1.41	1.33
18	I	311	ASN	N-CA	-5.15	1.39	1.46
24	O	315	LYS	N-CA	-5.15	1.40	1.46
26	Q	80	HIS	CD2-NE2	-5.15	1.32	1.37
28	S	366	LYS	CA-C	-5.15	1.46	1.52
27	R	301	TYR	N-CA	-5.15	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3	18	LEU	C-N	5.14	1.40	1.33
13	D	200	LEU	CA-C	-5.14	1.46	1.52
25	P	134	VAL	CA-C	-5.14	1.44	1.52
25	P	143	LEU	C-N	5.14	1.40	1.33
35	Z	423	GLY	C-O	5.14	1.29	1.23
1	1	178	LEU	CA-C	-5.14	1.46	1.52
16	G	47	PHE	CA-C	-5.14	1.46	1.52
33	X	78	ILE	CA-C	5.14	1.58	1.52
35	Z	903	MET	CA-C	-5.14	1.45	1.52
6	6	128	ARG	N-CA	-5.14	1.40	1.46
10	A	21	PRO	C-N	5.14	1.41	1.33
29	T	55	LEU	CA-C	5.14	1.59	1.52
11	B	63	LYS	C-N	5.14	1.39	1.33
13	D	155	ILE	N-CA	-5.14	1.40	1.46
17	H	434	ARG	CA-C	-5.14	1.45	1.52
21	L	198	GLU	C-O	-5.14	1.18	1.24
23	N	767	ALA	C-N	5.14	1.38	1.33
28	S	244	ASN	N-CA	-5.14	1.39	1.46
2	2	211	ALA	CA-C	-5.14	1.46	1.52
15	F	122	SER	CA-C	-5.14	1.46	1.52
20	K	145	ALA	CA-C	-5.14	1.46	1.52
24	O	164	PRO	N-CD	5.14	1.54	1.47
15	F	55	GLU	N-CA	5.13	1.52	1.46
20	K	224	LYS	C-N	5.13	1.41	1.33
28	S	372	LEU	N-CA	-5.13	1.40	1.46
35	Z	525	MET	C-N	5.13	1.40	1.34
4	4	102	LEU	N-CA	-5.13	1.39	1.46
22	M	428	LYS	CA-C	-5.13	1.46	1.52
6	6	192	GLY	CA-C	-5.13	1.46	1.51
23	N	37	SER	C-N	-5.13	1.26	1.33
23	N	735	MET	C-N	5.13	1.40	1.33
1	1	142	PHE	CA-C	-5.13	1.46	1.52
23	N	145	LEU	C-N	5.13	1.41	1.33
23	N	759	ILE	N-CA	-5.13	1.40	1.46
35	Z	539	ASN	C-N	-5.13	1.27	1.33
10	A	155	TYR	CA-C	5.13	1.58	1.52
13	D	242	GLU	N-CA	5.13	1.52	1.45
20	K	341	PRO	CA-C	5.13	1.59	1.52
23	N	757	THR	CA-C	-5.13	1.46	1.52
25	P	348	HIS	CA-C	-5.13	1.45	1.52
16	G	180	ASP	CA-C	-5.12	1.46	1.52
26	Q	239	PHE	C-N	5.12	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	U	284	SER	C-N	5.12	1.40	1.33
6	6	212	ARG	C-N	5.12	1.40	1.33
23	N	684	SER	CA-C	-5.12	1.46	1.52
35	Z	881	ILE	N-CA	-5.12	1.40	1.46
35	Z	908	ILE	N-CA	-5.12	1.40	1.46
5	5	29	GLN	C-N	5.12	1.40	1.33
7	7	12	VAL	CA-C	-5.12	1.46	1.52
21	L	295	THR	C-O	-5.12	1.17	1.23
25	P	216	LEU	N-CA	-5.12	1.40	1.46
26	Q	413	LEU	CA-C	-5.12	1.46	1.52
30	U	204	LEU	CA-C	-5.12	1.46	1.52
2	2	156	SER	CA-C	-5.12	1.46	1.52
4	4	132	HIS	CD2-NE2	-5.12	1.32	1.37
21	L	340	PRO	N-CD	5.12	1.54	1.47
22	M	234	ALA	C-N	5.12	1.40	1.33
30	U	303	GLU	N-CA	-5.12	1.40	1.46
6	6	177	ASP	C-N	5.11	1.40	1.33
10	A	55	SER	CA-C	-5.11	1.46	1.52
25	P	190	LYS	C-N	5.11	1.39	1.32
23	N	167	GLU	C-N	5.11	1.40	1.33
15	F	118	LYS	C-N	5.11	1.41	1.33
17	H	298	ALA	C-N	5.11	1.40	1.33
18	I	216	PRO	CA-C	-5.11	1.46	1.52
19	J	312	ARG	C-N	5.11	1.40	1.33
19	J	334	LYS	CA-C	-5.11	1.45	1.52
35	Z	62	SER	CA-C	-5.11	1.46	1.52
11	B	139	HIS	CD2-NE2	-5.11	1.32	1.37
19	J	170	HIS	CD2-NE2	-5.11	1.32	1.37
3	3	153	ASP	C-N	5.11	1.40	1.33
14	E	119	LEU	CA-C	-5.11	1.45	1.52
23	N	179	THR	CA-C	-5.11	1.46	1.52
26	Q	329	GLU	CA-C	-5.10	1.45	1.52
35	Z	532	HIS	CD2-NE2	-5.10	1.32	1.37
5	5	31	VAL	CA-C	-5.10	1.46	1.52
6	6	70	HIS	CD2-NE2	-5.10	1.32	1.37
11	B	94	HIS	CD2-NE2	-5.10	1.32	1.37
25	P	326	ASP	C-N	5.10	1.42	1.34
25	P	348	HIS	CD2-NE2	-5.10	1.32	1.37
27	R	115	GLU	C-N	5.10	1.40	1.33
21	L	177	GLU	C-N	5.10	1.39	1.33
24	O	236	HIS	CD2-NE2	-5.10	1.32	1.37
33	X	29	VAL	CA-C	5.10	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4	69	ARG	CA-C	-5.10	1.46	1.52
19	J	240	HIS	CD2-NE2	-5.10	1.32	1.37
21	L	365	THR	C-N	5.10	1.40	1.33
22	M	395	THR	C-N	5.10	1.40	1.33
35	Z	760	HIS	CD2-NE2	-5.10	1.32	1.37
23	N	166	ILE	CA-C	-5.10	1.46	1.52
16	G	73	ILE	CA-C	-5.09	1.46	1.52
17	H	300	THR	N-CA	5.09	1.52	1.46
26	Q	241	GLU	C-N	5.09	1.40	1.33
27	R	335	ARG	N-CA	-5.09	1.40	1.46
32	W	52	ILE	C-N	5.09	1.39	1.33
16	G	170	SER	C-N	5.09	1.40	1.33
20	K	354	GLY	CA-C	-5.09	1.46	1.52
30	U	301	ILE	N-CA	5.09	1.52	1.46
17	H	424	THR	N-CA	-5.09	1.39	1.46
32	W	100	HIS	CD2-NE2	-5.09	1.32	1.37
12	C	74	ALA	CA-C	-5.09	1.46	1.52
14	E	99	HIS	CD2-NE2	-5.09	1.32	1.37
17	H	65	GLU	CA-C	-5.09	1.46	1.52
17	H	253	GLY	C-N	5.09	1.41	1.33
28	S	334	HIS	CD2-NE2	-5.09	1.32	1.37
16	G	146	HIS	CD2-NE2	-5.08	1.32	1.37
6	6	18	THR	C-N	5.08	1.40	1.33
14	E	147	HIS	CD2-NE2	-5.08	1.32	1.37
14	E	150	ASP	C-N	5.08	1.40	1.33
19	J	154	THR	N-CA	5.08	1.52	1.46
21	L	125	PRO	N-CA	5.08	1.53	1.47
21	L	364	HIS	CD2-NE2	-5.08	1.32	1.37
23	N	183	VAL	C-O	-5.08	1.18	1.24
23	N	877	GLN	N-CA	-5.08	1.40	1.46
5	5	72	GLU	CA-C	-5.08	1.46	1.52
17	H	338	THR	CA-C	-5.08	1.46	1.52
19	J	72	VAL	C-N	5.08	1.41	1.33
27	R	284	ALA	C-N	5.08	1.41	1.33
32	W	155	ASP	N-CA	-5.08	1.40	1.46
34	Y	87	GLU	C-N	5.08	1.40	1.33
29	T	123	HIS	CD2-NE2	-5.08	1.32	1.37
6	6	99	HIS	CD2-NE2	-5.08	1.32	1.37
15	F	143	HIS	CD2-NE2	-5.08	1.32	1.37
25	P	114	THR	CA-C	-5.08	1.45	1.52
5	5	46	ALA	CA-C	-5.08	1.46	1.52
28	S	214	MET	CA-C	5.08	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	P	147	LYS	CA-C	5.08	1.59	1.52
6	6	86	HIS	CD2-NE2	-5.07	1.32	1.37
12	C	2	GLY	CA-C	-5.07	1.43	1.52
25	P	229	LEU	C-N	5.07	1.40	1.33
25	P	337	HIS	CD2-NE2	-5.07	1.32	1.37
19	J	205	HIS	CD2-NE2	-5.07	1.32	1.37
25	P	163	LEU	CA-C	-5.07	1.46	1.52
31	V	204	HIS	CD2-NE2	-5.07	1.32	1.37
35	Z	307	HIS	CD2-NE2	-5.07	1.32	1.37
30	U	156	HIS	CD2-NE2	-5.07	1.32	1.37
4	4	61	ALA	CA-C	-5.07	1.46	1.52
5	5	137	TYR	C-N	5.07	1.40	1.33
10	A	175	GLN	C-N	5.07	1.40	1.33
23	N	613	HIS	CD2-NE2	-5.07	1.32	1.37
11	B	80	PRO	N-CD	5.07	1.54	1.47
22	M	260	ALA	CA-C	-5.07	1.46	1.52
25	P	425	HIS	CD2-NE2	-5.06	1.32	1.37
3	3	116	ASP	CA-C	-5.06	1.46	1.52
16	G	122	HIS	CD2-NE2	-5.06	1.32	1.37
19	J	123	HIS	CD2-NE2	-5.06	1.32	1.37
21	L	183	ILE	N-CA	-5.06	1.39	1.46
27	R	405	LYS	C-O	-5.06	1.18	1.24
18	I	212	GLY	N-CA	5.06	1.52	1.45
27	R	217	HIS	CD2-NE2	-5.06	1.32	1.37
1	1	123	PRO	N-CA	-5.06	1.40	1.47
11	B	65	SER	N-CA	5.06	1.52	1.46
18	I	398	GLU	C-N	5.06	1.40	1.33
22	M	149	ASN	N-CA	-5.06	1.39	1.45
28	S	156	VAL	C-N	5.06	1.40	1.33
3	3	115	PHE	C-N	5.06	1.40	1.33
14	E	57	PRO	N-CD	5.06	1.54	1.47
2	2	116	HIS	CD2-NE2	-5.06	1.32	1.37
10	A	63	LEU	CA-C	-5.06	1.46	1.52
22	M	53	HIS	CD2-NE2	-5.06	1.32	1.37
24	O	150	LEU	CA-C	-5.06	1.46	1.52
27	R	177	LEU	C-N	5.06	1.40	1.33
6	6	67	HIS	CD2-NE2	-5.05	1.32	1.37
19	J	331	HIS	CD2-NE2	-5.05	1.32	1.37
19	J	376	HIS	CD2-NE2	-5.05	1.32	1.37
13	D	83	ARG	CA-C	-5.05	1.46	1.52
18	I	246	ARG	CA-C	-5.05	1.46	1.52
24	O	21	SER	CA-C	-5.05	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	P	440	HIS	CD2-NE2	-5.05	1.32	1.37
26	Q	236	PHE	CA-C	-5.05	1.46	1.52
18	I	365	HIS	CD2-NE2	-5.05	1.32	1.37
23	N	375	HIS	CD2-NE2	-5.05	1.32	1.37
26	Q	178	HIS	CD2-NE2	-5.05	1.32	1.37
2	2	122	GLY	CA-C	-5.05	1.46	1.51
21	L	179	THR	CA-C	-5.05	1.46	1.52
26	Q	135	HIS	CD2-NE2	-5.05	1.32	1.37
28	S	476	LEU	C-N	5.05	1.40	1.33
2	2	12	VAL	N-CA	5.05	1.52	1.46
14	E	105	GLU	C-N	5.05	1.40	1.33
15	F	9	ASP	CA-C	5.05	1.58	1.52
22	M	412	HIS	N-CA	-5.05	1.40	1.46
35	Z	976	HIS	CD2-NE2	-5.05	1.32	1.37
15	F	48	ALA	N-CA	5.05	1.52	1.46
16	G	139	GLY	C-N	5.05	1.40	1.33
18	I	151	HIS	CD2-NE2	-5.05	1.32	1.37
18	I	216	PRO	N-CD	5.05	1.54	1.47
22	M	361	LEU	C-N	-5.05	1.26	1.34
23	N	690	HIS	CD2-NE2	-5.05	1.32	1.37
23	N	876	PRO	N-CD	5.05	1.54	1.47
25	P	336	HIS	CD2-NE2	-5.05	1.32	1.37
4	4	154	GLU	N-CA	-5.04	1.39	1.46
5	5	115	VAL	CA-C	5.04	1.58	1.52
29	T	94	HIS	CD2-NE2	-5.04	1.32	1.37
35	Z	410	THR	N-CA	-5.04	1.39	1.45
11	B	4	ARG	C-N	5.04	1.40	1.33
12	C	148	LEU	CA-C	-5.04	1.46	1.52
13	D	25	GLU	N-CA	-5.04	1.40	1.46
18	I	204	HIS	CD2-NE2	-5.04	1.32	1.37
18	I	281	ILE	CA-C	-5.04	1.46	1.52
23	N	736	PHE	CA-C	5.04	1.59	1.52
28	S	261	HIS	CD2-NE2	-5.04	1.32	1.37
35	Z	463	HIS	CD2-NE2	-5.04	1.32	1.37
1	1	38	HIS	CD2-NE2	-5.04	1.32	1.37
6	6	-2	ASN	N-CA	-5.04	1.41	1.46
25	P	230	HIS	CD2-NE2	-5.04	1.32	1.37
12	C	114	ARG	C-N	5.04	1.40	1.33
25	P	204	LEU	C-N	5.04	1.40	1.33
6	6	210	LEU	N-CA	-5.04	1.39	1.45
23	N	756	THR	CA-C	-5.04	1.46	1.53
28	S	342	LEU	C-N	5.04	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	V	190	HIS	CD2-NE2	-5.04	1.32	1.37
31	V	248	ALA	CA-C	-5.04	1.46	1.52
35	Z	404	ASP	N-CA	5.04	1.52	1.46
35	Z	898	HIS	CD2-NE2	-5.04	1.32	1.37
21	L	267	PHE	CA-C	-5.04	1.46	1.52
7	7	67	ALA	N-CA	-5.04	1.39	1.46
23	N	302	PHE	N-CA	-5.04	1.40	1.46
23	N	483	LEU	N-CA	-5.04	1.40	1.46
5	5	66	HIS	CD2-NE2	-5.03	1.32	1.37
5	5	191	HIS	N-CA	5.03	1.52	1.46
6	6	95	PRO	CA-C	-5.03	1.47	1.52
14	E	75	GLY	CA-C	-5.03	1.47	1.52
22	M	337	LEU	N-CA	-5.03	1.40	1.46
30	U	79	MET	CA-C	5.03	1.59	1.52
13	D	243	GLN	CA-C	-5.03	1.46	1.52
5	5	107	LYS	N-CA	-5.03	1.40	1.46
10	A	15	HIS	CD2-NE2	-5.03	1.32	1.37
11	B	230	ASP	C-N	5.03	1.40	1.33
14	E	48	LEU	CA-C	-5.03	1.46	1.52
26	Q	423	VAL	C-N	5.03	1.40	1.33
28	S	139	HIS	CD2-NE2	-5.03	1.32	1.37
35	Z	622	HIS	CD2-NE2	-5.03	1.32	1.37
35	Z	764	LEU	C-N	5.03	1.41	1.34
13	D	70	HIS	CD2-NE2	-5.03	1.32	1.37
19	J	255	SER	N-CA	-5.03	1.39	1.46
20	K	411	TYR	CA-C	-5.03	1.46	1.52
3	3	83	SER	C-N	5.03	1.40	1.34
12	C	162	ALA	CA-C	-5.03	1.46	1.52
15	F	100	ASN	C-N	5.03	1.40	1.33
15	F	180	ILE	C-N	5.03	1.41	1.33
19	J	307	PRO	C-N	5.03	1.39	1.33
23	N	874	ILE	N-CA	5.03	1.52	1.46
26	Q	285	LYS	CA-C	-5.03	1.46	1.52
5	5	83	LEU	CA-C	-5.03	1.46	1.52
14	E	14	THR	CA-C	-5.03	1.46	1.52
19	J	204	HIS	CD2-NE2	-5.03	1.32	1.37
20	K	142	HIS	CD2-NE2	-5.03	1.32	1.37
23	N	340	HIS	CD2-NE2	-5.03	1.32	1.37
23	N	616	HIS	CD2-NE2	-5.03	1.32	1.37
27	R	50	VAL	C-O	-5.03	1.18	1.24
5	5	68	LEU	CA-C	-5.02	1.46	1.52
27	R	401	HIS	CD2-NE2	-5.02	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	6	186	HIS	CD2-NE2	-5.02	1.32	1.37
10	A	71	TYR	C-N	5.02	1.39	1.33
13	D	211	GLU	N-CA	-5.02	1.40	1.46
17	H	298	ALA	C-O	-5.02	1.18	1.24
18	I	141	LEU	N-CA	5.02	1.52	1.45
20	K	228	ASN	N-CA	-5.02	1.40	1.46
25	P	117	SER	CA-C	-5.02	1.46	1.52
31	V	262	THR	CA-C	5.02	1.59	1.52
10	A	103	GLU	C-N	5.02	1.40	1.33
20	K	140	HIS	CD2-NE2	-5.02	1.32	1.37
22	M	419	ILE	C-O	-5.02	1.18	1.24
26	Q	195	LYS	C-N	5.02	1.40	1.33
12	C	125	HIS	CD2-NE2	-5.02	1.32	1.37
17	H	53	GLU	C-N	5.02	1.40	1.33
18	I	242	ALA	C-O	-5.02	1.17	1.23
32	W	77	HIS	CD2-NE2	-5.02	1.32	1.37
34	Y	88	ASN	CA-C	-5.02	1.45	1.52
35	Z	965	LEU	CA-C	-5.02	1.47	1.53
13	D	174	PHE	C-N	5.02	1.40	1.33
22	M	393	ALA	N-CA	5.02	1.52	1.46
23	N	510	HIS	CD2-NE2	-5.02	1.32	1.37
23	N	573	HIS	CD2-NE2	-5.02	1.32	1.37
28	S	438	HIS	CD2-NE2	-5.02	1.32	1.37
15	F	69	HIS	CD2-NE2	-5.02	1.32	1.37
19	J	231	ARG	C-O	-5.02	1.18	1.24
22	M	364	HIS	CD2-NE2	-5.02	1.32	1.37
13	D	16	HIS	CD2-NE2	-5.01	1.32	1.37
21	L	92	GLU	C-N	5.01	1.40	1.34
22	M	412	HIS	CD2-NE2	-5.01	1.32	1.37
31	V	40	HIS	CD2-NE2	-5.01	1.32	1.37
16	G	181	HIS	CD2-NE2	-5.01	1.32	1.37
30	U	223	HIS	CD2-NE2	-5.01	1.32	1.37
35	Z	338	HIS	CD2-NE2	-5.01	1.32	1.37
10	A	97	ALA	CA-C	-5.01	1.46	1.52
10	A	193	HIS	CD2-NE2	-5.01	1.32	1.37
11	B	190	HIS	CD2-NE2	-5.01	1.32	1.37
14	E	73	HIS	CD2-NE2	-5.01	1.32	1.37
17	H	274	VAL	CA-C	-5.01	1.46	1.52
20	K	285	GLN	N-CA	-5.01	1.39	1.45
22	M	132	VAL	N-CA	5.01	1.52	1.46
23	N	430	ASN	CA-C	5.01	1.60	1.52
25	P	66	LEU	C-N	5.01	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	Q	145	HIS	CD2-NE2	-5.01	1.32	1.37
26	Q	334	HIS	CD2-NE2	-5.01	1.32	1.37
27	R	81	HIS	CD2-NE2	-5.01	1.32	1.37
30	U	173	HIS	CD2-NE2	-5.01	1.32	1.37
35	Z	80	SER	N-CA	-5.01	1.39	1.46
21	L	266	MET	CA-C	-5.01	1.46	1.52
16	G	100	LYS	CA-C	-5.01	1.46	1.52
21	L	210	VAL	N-CA	-5.01	1.40	1.46
26	Q	361	HIS	CD2-NE2	-5.01	1.32	1.37
1	1	39	ASP	N-CA	-5.01	1.40	1.46
2	2	114	HIS	CD2-NE2	-5.01	1.32	1.37
14	E	186	GLU	CA-C	-5.01	1.45	1.52
15	F	202	ARG	C-N	5.01	1.40	1.33
16	G	182	HIS	CD2-NE2	-5.01	1.32	1.37
21	L	105	ILE	C-N	5.01	1.41	1.33
22	M	328	ASN	C-N	5.01	1.39	1.33
28	S	447	GLU	CA-C	-5.01	1.46	1.52
30	U	287	ALA	N-CA	-5.01	1.40	1.46
31	V	241	THR	C-N	5.01	1.40	1.33
5	5	71	LYS	CA-C	-5.00	1.47	1.53
25	P	30	ASN	C-O	5.00	1.29	1.24
25	P	417	HIS	CD2-NE2	-5.00	1.32	1.37
5	5	77	ALA	CA-C	-5.00	1.46	1.52
5	5	166	HIS	CD2-NE2	-5.00	1.32	1.37
12	C	229	ILE	N-CA	-5.00	1.40	1.46
16	G	95	ALA	C-N	5.00	1.40	1.33
17	H	95	HIS	CD2-NE2	-5.00	1.32	1.37
18	I	167	MET	N-CA	5.00	1.52	1.46
18	I	197	SER	C-N	5.00	1.40	1.33
35	Z	871	HIS	CD2-NE2	-5.00	1.32	1.37
5	5	127	PHE	N-CA	-5.00	1.39	1.46
23	N	329	HIS	CD2-NE2	-5.00	1.32	1.37
24	O	326	HIS	CD2-NE2	-5.00	1.32	1.37
35	Z	156	HIS	CD2-NE2	-5.00	1.32	1.37
35	Z	511	PRO	C-N	5.00	1.40	1.33
35	Z	959	HIS	CD2-NE2	-5.00	1.32	1.37

All (4316) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	W	154	LEU	O-C-N	41.39	177.64	122.59
20	K	242	PHE	CA-C-N	-37.36	54.71	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	K	242	PHE	C-N-CA	-37.36	54.71	121.97
32	W	154	LEU	CA-C-N	-36.12	71.88	120.28
32	W	154	LEU	C-N-CA	-36.12	71.88	120.28
20	K	242	PHE	O-C-N	35.92	166.44	122.26
22	M	58	MET	O-C-N	-20.35	88.98	121.53
17	H	279	LEU	O-C-N	19.00	147.90	122.43
32	W	153	LEU	O-C-N	-18.17	98.42	122.59
20	K	54	LEU	CA-C-N	14.35	139.51	120.28
20	K	54	LEU	C-N-CA	14.35	139.51	120.28
17	H	250	GLY	CA-C-N	13.33	129.26	119.66
17	H	250	GLY	C-N-CA	13.33	129.26	119.66
31	V	290	ASN	O-C-N	-13.30	108.37	122.07
17	H	188	PRO	N-CA-C	13.19	126.79	110.70
22	M	61	LYS	N-CA-C	13.02	125.47	111.28
35	Z	776	VAL	CA-C-O	-12.56	108.17	118.85
4	4	38	SER	N-CA-C	-12.27	97.15	108.07
29	T	47	GLN	N-CA-C	-12.21	100.70	114.62
32	W	11	ASP	CA-C-N	12.11	144.67	121.54
32	W	11	ASP	C-N-CA	12.11	144.67	121.54
30	U	71	ASN	CA-CB-CG	12.05	124.65	112.60
16	G	8	ASP	N-CA-C	-12.04	99.27	114.56
22	M	257	GLY	O-C-N	-11.92	107.21	122.70
17	H	279	LEU	CA-C-N	-11.80	100.73	121.97
17	H	279	LEU	C-N-CA	-11.80	100.73	121.97
25	P	46	THR	N-CA-C	11.68	123.57	111.07
30	U	229	LEU	CA-C-N	11.57	143.64	121.54
30	U	229	LEU	C-N-CA	11.57	143.64	121.54
22	M	132	VAL	N-CA-C	-11.48	101.27	112.17
20	K	214	PRO	N-CA-C	11.40	124.61	110.70
32	W	11	ASP	O-C-N	-11.20	107.70	122.59
31	V	282	GLU	O-C-N	11.16	133.95	122.12
22	M	251	LEU	CA-C-N	-11.13	101.94	121.97
22	M	251	LEU	C-N-CA	-11.13	101.94	121.97
21	L	257	GLY	O-C-N	-11.08	108.40	122.25
14	E	177	GLU	CA-C-N	11.06	132.00	119.94
14	E	177	GLU	C-N-CA	11.06	132.00	119.94
35	Z	434	GLN	CA-C-N	10.93	134.93	120.28
35	Z	434	GLN	C-N-CA	10.93	134.93	120.28
10	A	87	ILE	O-C-N	-10.89	112.34	120.07
11	B	27	ALA	CA-C-N	10.76	135.20	120.46
11	B	27	ALA	C-N-CA	10.76	135.20	120.46
35	Z	366	LYS	N-CA-C	10.75	125.40	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	R	184	GLN	N-CA-C	-10.67	100.11	113.55
21	L	420	ARG	N-CA-C	10.59	122.82	111.28
17	H	422	VAL	N-CA-C	10.57	121.40	110.62
31	V	283	THR	CA-C-N	10.56	138.63	120.58
31	V	283	THR	C-N-CA	10.56	138.63	120.58
18	I	285	ASP	N-CA-C	-10.55	102.60	114.62
20	K	49	PHE	CA-C-N	10.50	134.35	120.28
20	K	49	PHE	C-N-CA	10.50	134.35	120.28
23	N	550	GLY	CA-C-N	10.50	131.64	119.98
23	N	550	GLY	C-N-CA	10.50	131.64	119.98
30	U	83	ILE	N-CA-C	-10.43	101.77	111.67
28	S	351	ALA	CA-C-N	10.42	133.90	120.56
28	S	351	ALA	C-N-CA	10.42	133.90	120.56
26	Q	377	LEU	CA-C-O	-10.38	109.55	120.55
23	N	889	ARG	NE-CZ-NH1	10.35	131.85	121.50
20	K	48	TYR	CA-C-N	10.30	134.08	120.28
20	K	48	TYR	C-N-CA	10.30	134.08	120.28
17	H	251	PRO	CA-C-N	10.29	130.24	119.85
17	H	251	PRO	C-N-CA	10.29	130.24	119.85
12	C	62	SER	N-CA-C	-10.28	97.76	110.61
25	P	402	PHE	N-CA-C	-10.25	99.57	113.30
32	W	58	ASN	C-N-CD	-10.22	83.08	125.00
2	2	37	ILE	N-CA-C	-10.21	103.03	111.81
9	9	52	ASP	N-CA-C	10.17	124.77	111.75
22	M	313	ASP	CA-C-N	10.17	132.85	120.14
22	M	313	ASP	C-N-CA	10.17	132.85	120.14
35	Z	400	ILE	N-CA-C	-10.07	101.06	110.53
25	P	397	ALA	N-CA-C	-10.03	101.17	113.41
27	R	213	TYR	CA-C-N	10.03	134.53	120.29
27	R	213	TYR	C-N-CA	10.03	134.53	120.29
35	Z	360	SER	CA-C-N	10.03	133.72	120.28
35	Z	360	SER	C-N-CA	10.03	133.72	120.28
29	T	167	GLY	N-CA-C	10.01	123.34	112.33
22	M	186	LEU	N-CA-C	-9.92	101.41	112.72
18	I	259	ASP	N-CA-C	9.91	121.84	111.14
23	N	133	LEU	CA-C-N	9.90	133.31	120.44
23	N	133	LEU	C-N-CA	9.90	133.31	120.44
22	M	205	ASP	CA-C-N	9.87	133.87	120.44
22	M	205	ASP	C-N-CA	9.87	133.87	120.44
21	L	277	ILE	CA-C-O	-9.86	109.84	120.59
23	N	191	THR	CA-C-N	9.86	133.26	120.44
23	N	191	THR	C-N-CA	9.86	133.26	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	T	148	LEU	CA-C-N	9.82	133.44	120.28
29	T	148	LEU	C-N-CA	9.82	133.44	120.28
30	U	164	GLU	CA-C-N	9.79	133.79	120.38
30	U	164	GLU	C-N-CA	9.79	133.79	120.38
23	N	762	ARG	CD-NE-CZ	-9.79	110.70	124.40
35	Z	787	ASP	CA-C-N	9.77	130.38	119.93
35	Z	787	ASP	C-N-CA	9.77	130.38	119.93
19	J	165	GLU	N-CA-C	9.74	121.98	111.36
23	N	580	ASN	CA-C-N	9.74	134.12	120.29
23	N	580	ASN	C-N-CA	9.74	134.12	120.29
21	L	315	PHE	N-CA-C	-9.74	101.40	113.38
22	M	147	GLY	O-C-N	9.72	129.47	123.35
33	X	68	LEU	CA-C-O	-9.72	110.06	120.46
26	Q	229	ASP	N-CA-C	-9.70	99.11	112.30
28	S	340	LYS	CA-C-O	-9.70	110.27	120.55
28	S	307	LEU	CA-C-N	9.62	132.44	120.22
28	S	307	LEU	C-N-CA	9.62	132.44	120.22
24	O	345	ASN	CA-C-N	9.60	139.87	121.54
24	O	345	ASN	C-N-CA	9.60	139.87	121.54
23	N	95	SER	N-CA-C	-9.58	94.87	109.14
20	K	177	LEU	CA-C-N	9.57	135.18	120.82
20	K	177	LEU	C-N-CA	9.57	135.18	120.82
4	4	69	ARG	N-CA-C	9.54	121.68	111.28
4	4	135	SER	CA-C-N	9.53	132.05	120.14
4	4	135	SER	C-N-CA	9.53	132.05	120.14
11	B	100	ILE	N-CA-C	-9.49	103.40	111.56
26	Q	368	LEU	CA-C-N	9.46	134.73	120.82
26	Q	368	LEU	C-N-CA	9.46	134.73	120.82
23	N	781	ALA	CA-C-N	9.45	138.63	122.37
23	N	781	ALA	C-N-CA	9.45	138.63	122.37
25	P	377	GLU	CA-C-N	9.43	133.27	120.44
25	P	377	GLU	C-N-CA	9.43	133.27	120.44
4	4	172	PRO	N-CA-C	-9.39	102.66	114.68
23	N	617	VAL	CA-C-N	9.38	133.79	120.28
23	N	617	VAL	C-N-CA	9.38	133.79	120.28
27	R	263	ARG	N-CA-C	-9.37	101.97	113.50
22	M	129	LEU	CA-C-O	-9.35	111.38	120.64
22	M	191	GLU	N-CA-C	9.35	121.47	111.28
31	V	47	MET	CA-C-N	9.34	139.38	121.54
31	V	47	MET	C-N-CA	9.34	139.38	121.54
19	J	306	ARG	CA-C-N	9.31	129.89	119.92
19	J	306	ARG	C-N-CA	9.31	129.89	119.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	L	296	SER	N-CA-C	-9.31	104.00	114.62
23	N	647	ASP	O-C-N	-9.30	113.75	121.38
21	L	189	GLN	CA-C-N	9.29	132.27	120.56
21	L	189	GLN	C-N-CA	9.29	132.27	120.56
28	S	474	GLU	N-CA-C	9.29	121.41	111.28
25	P	90	LYS	N-CA-C	9.29	123.87	112.54
35	Z	447	VAL	CA-C-N	9.28	132.51	120.44
35	Z	447	VAL	C-N-CA	9.28	132.51	120.44
5	5	181	THR	CA-C-N	9.23	132.65	120.28
5	5	181	THR	C-N-CA	9.23	132.65	120.28
30	U	230	GLN	N-CA-C	9.23	130.47	110.80
17	H	187	LEU	C-N-CD	-9.23	87.16	125.00
27	R	371	PHE	CA-C-N	9.23	126.05	120.24
27	R	371	PHE	C-N-CA	9.23	126.05	120.24
2	2	189	ASN	CA-C-N	9.22	132.64	120.28
2	2	189	ASN	C-N-CA	9.22	132.64	120.28
32	W	111	VAL	O-C-N	-9.22	112.72	122.95
17	H	377	PHE	N-CA-C	-9.21	99.96	112.03
26	Q	180	LEU	CA-C-N	9.21	132.62	120.28
26	Q	180	LEU	C-N-CA	9.21	132.62	120.28
23	N	399	PHE	N-CA-C	-9.20	101.33	111.36
25	P	309	MET	CA-C-N	9.18	132.58	120.28
25	P	309	MET	C-N-CA	9.18	132.58	120.28
27	R	288	SER	N-CA-C	-9.18	98.69	113.19
5	5	78	ALA	CA-C-N	9.17	132.36	120.44
5	5	78	ALA	C-N-CA	9.17	132.36	120.44
22	M	370	THR	N-CA-C	-9.16	95.23	108.60
12	C	245	THR	N-CA-C	-9.14	100.63	114.16
35	Z	108	ASP	CA-C-O	-9.14	112.09	120.50
35	Z	371	SER	N-CA-C	-9.12	95.38	108.96
23	N	496	GLU	CA-C-O	-9.11	111.26	120.82
35	Z	595	MET	CA-C-O	-9.10	110.90	120.55
25	P	173	MET	CA-C-N	9.07	132.43	120.28
25	P	173	MET	C-N-CA	9.07	132.43	120.28
26	Q	74	LEU	CA-C-N	9.06	132.42	120.28
26	Q	74	LEU	C-N-CA	9.06	132.42	120.28
28	S	267	SER	CA-C-N	9.06	132.42	120.28
28	S	267	SER	C-N-CA	9.06	132.42	120.28
35	Z	133	ASP	CA-C-N	9.06	138.84	121.54
35	Z	133	ASP	C-N-CA	9.06	138.84	121.54
3	3	99	VAL	N-CA-C	-9.05	95.87	108.27
3	3	21	GLY	O-C-N	9.04	130.91	123.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	K	340	PHE	O-C-N	-9.04	113.91	121.23
1	1	124	TYR	N-CA-C	-9.04	94.96	108.79
24	O	377	VAL	CA-C-N	9.03	132.38	120.28
24	O	377	VAL	C-N-CA	9.03	132.38	120.28
20	K	143	SER	CA-C-O	-9.03	111.40	120.70
20	K	227	ALA	CA-C-N	9.02	133.09	120.29
20	K	227	ALA	C-N-CA	9.02	133.09	120.29
35	Z	92	LEU	O-C-N	9.01	132.77	122.22
18	I	394	ALA	CA-C-N	9.01	132.15	120.44
18	I	394	ALA	C-N-CA	9.01	132.15	120.44
35	Z	376	SER	CA-C-N	8.95	132.28	120.28
35	Z	376	SER	C-N-CA	8.95	132.28	120.28
14	E	232	ASP	CA-C-N	8.94	132.63	120.38
14	E	232	ASP	C-N-CA	8.94	132.63	120.38
32	W	191	ILE	CA-C-N	8.94	138.61	121.54
32	W	191	ILE	C-N-CA	8.94	138.61	121.54
15	F	107	ARG	O-C-N	8.93	131.73	122.09
20	K	355	THR	CA-C-O	-8.93	111.51	120.70
18	I	85	PHE	CA-C-N	8.92	132.23	120.28
18	I	85	PHE	C-N-CA	8.92	132.23	120.28
20	K	338	ILE	CA-C-O	8.90	129.91	120.48
35	Z	591	ILE	O-C-N	-8.89	114.40	123.03
12	C	210	ARG	N-CA-C	-8.89	99.78	113.02
5	5	197	PHE	CA-C-N	8.88	132.18	120.28
5	5	197	PHE	C-N-CA	8.88	132.18	120.28
20	K	242	PHE	N-CA-C	-8.86	101.78	112.59
30	U	38	LEU	N-CA-C	8.86	122.62	109.24
15	F	40	SER	CA-C-O	-8.86	113.39	119.68
23	N	217	MET	CA-C-O	-8.86	111.05	120.70
18	I	93	LYS	CA-C-N	8.85	132.33	120.65
18	I	93	LYS	C-N-CA	8.85	132.33	120.65
21	L	348	GLU	CA-C-N	8.84	132.21	123.02
21	L	348	GLU	C-N-CA	8.84	132.21	123.02
24	O	176	SER	CA-C-N	8.83	132.12	120.28
24	O	176	SER	C-N-CA	8.83	132.12	120.28
22	M	417	GLU	CA-C-N	8.82	129.77	119.98
22	M	417	GLU	C-N-CA	8.82	129.77	119.98
23	N	35	LEU	CA-C-N	8.81	133.25	120.38
23	N	35	LEU	C-N-CA	8.81	133.25	120.38
21	L	82	ARG	CA-C-N	8.81	132.80	120.29
21	L	82	ARG	C-N-CA	8.81	132.80	120.29
35	Z	218	GLU	CA-C-N	8.80	132.79	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	Z	218	GLU	C-N-CA	8.80	132.79	120.29
19	J	234	PHE	N-CA-C	8.80	120.87	111.28
18	I	254	GLN	N-CA-C	8.79	124.24	113.17
28	S	372	LEU	CA-C-N	8.79	131.86	120.44
28	S	372	LEU	C-N-CA	8.79	131.86	120.44
2	2	12	VAL	N-CA-C	-8.78	95.87	108.42
15	F	64	ILE	N-CA-C	-8.76	94.80	107.77
27	R	248	SER	CA-C-N	8.75	132.85	120.42
27	R	248	SER	C-N-CA	8.75	132.85	120.42
13	D	115	GLY	N-CA-C	8.74	124.68	113.24
31	V	78	VAL	CA-C-N	8.73	138.10	122.64
31	V	78	VAL	C-N-CA	8.73	138.10	122.64
33	X	129	LEU	N-CA-C	8.72	120.40	111.07
18	I	147	VAL	N-CA-C	-8.72	94.92	108.44
29	T	137	GLU	N-CA-C	8.71	120.86	111.36
20	K	235	ILE	N-CA-C	-8.71	95.04	107.75
27	R	341	LEU	CA-C-N	8.71	132.31	120.38
27	R	341	LEU	C-N-CA	8.71	132.31	120.38
35	Z	273	LEU	CA-C-N	8.71	131.76	120.44
35	Z	273	LEU	C-N-CA	8.71	131.76	120.44
22	M	84	GLU	N-CA-C	-8.71	95.57	109.59
18	I	164	ALA	CA-C-N	8.70	132.48	120.65
18	I	164	ALA	C-N-CA	8.70	132.48	120.65
2	2	103	VAL	N-CA-C	-8.69	95.51	108.46
6	6	22	THR	N-CA-C	-8.69	93.84	108.26
12	C	93	ILE	CA-C-N	8.68	131.91	120.28
12	C	93	ILE	C-N-CA	8.68	131.91	120.28
22	M	139	LYS	N-CA-C	-8.67	101.68	113.30
23	N	589	ILE	O-C-N	8.66	130.27	121.87
4	4	82	PHE	CA-C-N	8.65	132.31	120.46
4	4	82	PHE	C-N-CA	8.65	132.31	120.46
19	J	168	VAL	CA-C-N	8.65	132.57	120.29
19	J	168	VAL	C-N-CA	8.65	132.57	120.29
35	Z	453	LEU	CA-C-O	-8.64	111.80	120.70
27	R	97	GLU	CA-C-N	8.62	132.20	120.38
27	R	97	GLU	C-N-CA	8.62	132.20	120.38
17	H	390	ARG	CA-C-N	8.62	131.59	120.56
17	H	390	ARG	C-N-CA	8.62	131.59	120.56
16	G	15	SER	CA-C-O	-8.61	111.32	120.70
20	K	348	GLU	N-CA-C	8.61	120.74	111.36
20	K	395	VAL	CA-C-O	-8.60	111.73	120.85
16	G	246	ILE	N-CA-C	-8.58	96.22	108.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	P	30	ASN	CA-CB-CG	-8.58	104.02	112.60
7	7	85	PHE	CA-C-N	8.57	131.77	120.28
7	7	85	PHE	C-N-CA	8.57	131.77	120.28
19	J	51	LEU	CA-C-N	8.56	131.76	120.28
19	J	51	LEU	C-N-CA	8.56	131.76	120.28
35	Z	455	ILE	CA-C-N	8.56	129.49	119.98
35	Z	455	ILE	C-N-CA	8.56	129.49	119.98
16	G	110	ALA	CA-C-N	8.56	131.75	120.28
16	G	110	ALA	C-N-CA	8.56	131.75	120.28
17	H	54	ASN	O-C-N	-8.55	113.05	122.12
21	L	186	LEU	CA-C-N	8.54	132.09	120.38
21	L	186	LEU	C-N-CA	8.54	132.09	120.38
25	P	126	THR	CA-C-N	8.54	132.94	120.90
25	P	126	THR	C-N-CA	8.54	132.94	120.90
27	R	139	GLU	CA-C-N	8.54	133.63	120.82
27	R	139	GLU	C-N-CA	8.54	133.63	120.82
3	3	-3	ILE	N-CA-C	-8.54	102.51	110.53
22	M	310	ASN	O-C-N	8.52	131.15	122.12
5	5	107	LYS	N-CA-C	-8.52	101.90	112.88
2	2	148	LYS	CA-C-O	-8.51	111.93	120.70
21	L	230	LEU	CA-C-O	-8.51	111.89	120.82
31	V	260	GLU	CA-C-N	8.50	132.01	120.54
31	V	260	GLU	C-N-CA	8.50	132.01	120.54
32	W	114	VAL	CA-C-N	8.49	131.66	120.28
32	W	114	VAL	C-N-CA	8.49	131.66	120.28
17	H	221	LEU	CA-C-N	8.48	131.65	120.28
17	H	221	LEU	C-N-CA	8.48	131.65	120.28
6	6	77	ILE	CA-C-N	8.48	132.34	120.29
6	6	77	ILE	C-N-CA	8.48	132.34	120.29
28	S	357	LEU	CA-C-N	8.48	131.47	120.44
28	S	357	LEU	C-N-CA	8.48	131.47	120.44
27	R	38	VAL	N-CA-C	-8.47	104.91	113.47
6	6	110	LYS	CA-C-N	8.46	128.14	120.10
6	6	110	LYS	C-N-CA	8.46	128.14	120.10
2	2	175	VAL	N-CA-C	-8.45	95.09	108.86
24	O	101	ASP	N-CA-C	8.44	120.10	111.07
23	N	92	ASP	N-CA-C	-8.44	101.44	112.41
21	L	223	PRO	N-CA-C	8.44	121.00	110.70
13	D	235	GLN	N-CA-C	8.43	120.47	111.28
21	L	167	VAL	N-CA-C	-8.43	105.11	113.20
35	Z	849	ARG	CA-C-N	8.42	131.92	120.38
35	Z	849	ARG	C-N-CA	8.42	131.92	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1	57	ASP	CA-C-N	8.41	132.37	120.42
1	1	57	ASP	C-N-CA	8.41	132.37	120.42
5	5	157	GLY	CA-C-N	8.41	131.54	120.28
5	5	157	GLY	C-N-CA	8.41	131.54	120.28
6	6	54	ALA	N-CA-C	8.40	120.06	111.07
4	4	13	ILE	N-CA-C	-8.40	96.42	108.17
28	S	399	TYR	CA-C-N	8.40	132.37	120.28
28	S	399	TYR	C-N-CA	8.40	132.37	120.28
18	I	350	PHE	CA-C-N	8.39	134.51	122.09
18	I	350	PHE	C-N-CA	8.39	134.51	122.09
20	K	349	ARG	CA-C-N	8.39	131.52	120.28
20	K	349	ARG	C-N-CA	8.39	131.52	120.28
35	Z	486	SER	CA-C-N	8.35	131.99	120.63
35	Z	486	SER	C-N-CA	8.35	131.99	120.63
10	A	246	VAL	CA-C-O	-8.35	112.27	120.95
11	B	214	ILE	N-CA-C	-8.35	94.00	107.28
31	V	50	MET	CA-C-N	-8.34	108.38	120.97
31	V	50	MET	C-N-CA	-8.34	108.38	120.97
20	K	360	MET	CA-C-O	-8.33	111.85	121.68
10	A	82	VAL	N-CA-C	-8.31	96.53	108.17
10	A	56	GLN	O-C-N	-8.31	113.32	122.79
11	B	69	PRO	N-CA-C	8.29	124.62	113.84
2	2	38	SER	N-CA-C	-8.28	98.62	108.14
26	Q	305	ALA	CA-C-N	8.27	131.19	120.44
26	Q	305	ALA	C-N-CA	8.27	131.19	120.44
17	H	280	VAL	O-C-N	-8.27	112.24	122.57
23	N	588	VAL	CA-C-N	8.25	131.76	120.46
23	N	588	VAL	C-N-CA	8.25	131.76	120.46
10	A	63	LEU	N-CA-C	-8.24	101.32	112.94
18	I	80	GLU	CA-C-O	-8.24	111.82	120.55
28	S	318	CYS	CA-C-N	8.23	131.15	120.44
28	S	318	CYS	C-N-CA	8.23	131.15	120.44
18	I	199	GLU	CA-C-N	8.23	130.38	120.09
18	I	199	GLU	C-N-CA	8.23	130.38	120.09
4	4	152	THR	CA-C-N	8.23	131.30	120.28
4	4	152	THR	C-N-CA	8.23	131.30	120.28
20	K	230	THR	N-CA-C	-8.23	103.03	113.23
27	R	372	ILE	CA-C-O	-8.22	111.86	118.85
18	I	249	GLY	CA-C-N	8.21	131.28	120.28
18	I	249	GLY	C-N-CA	8.21	131.28	120.28
35	Z	968	ASP	N-CA-C	-8.21	96.79	109.52
10	A	242	GLU	CA-CB-CG	8.21	130.52	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	N	731	VAL	O-C-N	8.20	129.93	121.89
26	Q	374	GLU	CA-C-N	8.20	129.01	120.00
26	Q	374	GLU	C-N-CA	8.20	129.01	120.00
20	K	318	THR	N-CA-C	-8.19	96.13	108.99
22	M	294	GLU	N-CA-C	-8.18	102.74	114.12
29	T	265	ASP	CA-C-N	8.17	131.06	120.44
29	T	265	ASP	C-N-CA	8.17	131.06	120.44
6	6	192	GLY	O-C-N	8.17	131.16	123.56
3	3	90	ARG	N-CA-C	-8.15	102.79	112.89
23	N	9	LEU	CA-C-N	8.15	132.01	120.28
23	N	9	LEU	C-N-CA	8.15	132.01	120.28
19	J	359	LYS	CA-C-N	8.14	129.02	119.98
19	J	359	LYS	C-N-CA	8.14	129.02	119.98
27	R	187	VAL	N-CA-C	-8.14	102.50	110.72
25	P	439	MET	CA-C-N	8.14	131.84	120.29
25	P	439	MET	C-N-CA	8.14	131.84	120.29
10	A	151	GLY	CA-C-N	8.13	128.63	119.93
10	A	151	GLY	C-N-CA	8.13	128.63	119.93
12	C	38	ILE	N-CA-C	-8.13	96.41	108.12
33	X	83	SER	N-CA-C	-8.13	95.00	108.34
10	A	72	ILE	N-CA-C	-8.12	96.80	108.17
18	I	167	MET	N-CA-C	-8.12	103.27	113.02
10	A	28	VAL	N-CA-C	8.12	118.92	110.72
23	N	256	GLN	CA-C-N	8.11	131.57	120.46
23	N	256	GLN	C-N-CA	8.11	131.57	120.46
35	Z	134	SER	CA-C-O	-8.10	108.92	120.51
27	R	315	VAL	N-CA-C	-8.10	105.22	111.62
10	A	87	ILE	CA-C-O	-8.09	111.97	118.85
19	J	166	LEU	CA-C-N	8.09	127.39	118.97
19	J	166	LEU	C-N-CA	8.09	127.39	118.97
24	O	319	LEU	CA-C-N	8.09	127.97	120.21
24	O	319	LEU	C-N-CA	8.09	127.97	120.21
2	2	63	ILE	N-CA-C	-8.08	102.19	111.00
27	R	46	ALA	N-CA-C	8.08	120.81	111.11
35	Z	776	VAL	O-C-N	8.07	125.80	120.07
24	O	206	THR	N-CA-C	-8.07	94.95	108.75
18	I	274	ASN	CA-C-N	8.06	132.94	120.68
18	I	274	ASN	C-N-CA	8.06	132.94	120.68
7	7	174	ARG	CA-C-N	8.06	131.50	120.46
7	7	174	ARG	C-N-CA	8.06	131.50	120.46
10	A	199	TRP	CA-C-N	8.05	130.91	120.44
10	A	199	TRP	C-N-CA	8.05	130.91	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
31	V	66	VAL	O-C-N	8.06	132.64	122.57
10	A	174	LYS	CA-C-N	8.05	130.91	120.44
10	A	174	LYS	C-N-CA	8.05	130.91	120.44
19	J	391	ASN	N-CA-C	8.05	120.06	111.28
17	H	163	VAL	O-C-N	-8.05	112.51	122.57
21	L	105	ILE	O-C-N	8.05	131.46	122.93
23	N	555	ILE	N-CA-C	-8.05	102.23	111.00
25	P	307	GLU	N-CA-C	-8.04	101.62	114.09
31	V	283	THR	O-C-N	-8.04	112.82	122.22
31	V	291	ASN	O-C-N	8.03	130.63	122.12
4	4	149	PRO	CA-C-O	-8.03	112.44	121.43
32	W	109	ARG	NH1-CZ-NH2	-8.03	108.86	119.30
2	2	59	ILE	CA-C-N	8.02	128.83	120.00
2	2	59	ILE	C-N-CA	8.02	128.83	120.00
12	C	115	LEU	CA-C-N	8.02	131.68	120.29
12	C	115	LEU	C-N-CA	8.02	131.68	120.29
23	N	703	GLN	CA-C-N	8.01	130.22	120.13
23	N	703	GLN	C-N-CA	8.01	130.22	120.13
21	L	320	GLN	N-CA-C	-8.01	102.78	114.39
11	B	85	LEU	CA-C-N	8.00	131.42	120.46
11	B	85	LEU	C-N-CA	8.00	131.42	120.46
28	S	178	LEU	N-CA-C	-8.00	103.73	113.97
18	I	351	GLU	CA-C-N	8.00	131.51	120.39
18	I	351	GLU	C-N-CA	8.00	131.51	120.39
2	2	57	GLN	CA-C-N	7.99	130.99	120.28
2	2	57	GLN	C-N-CA	7.99	130.99	120.28
11	B	9	LEU	N-CA-C	-7.99	103.10	113.17
25	P	338	TRP	CA-C-N	7.99	130.83	120.44
25	P	338	TRP	C-N-CA	7.99	130.83	120.44
28	S	204	ASP	CA-C-N	7.98	131.62	120.29
28	S	204	ASP	C-N-CA	7.98	131.62	120.29
23	N	280	GLN	N-CA-C	-7.98	103.69	113.50
19	J	172	GLU	CA-C-N	7.98	130.81	120.44
19	J	172	GLU	C-N-CA	7.98	130.81	120.44
5	5	57	THR	CA-C-N	7.97	131.29	120.44
5	5	57	THR	C-N-CA	7.97	131.29	120.44
7	7	43	VAL	CA-C-N	7.97	129.78	122.20
7	7	43	VAL	C-N-CA	7.97	129.78	122.20
25	P	258	LYS	O-C-N	-7.97	112.15	121.32
7	7	160	THR	N-CA-C	-7.97	96.41	109.40
29	T	76	ASP	CA-C-O	7.97	129.00	120.55
18	I	193	GLU	CA-C-N	7.96	131.72	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	I	193	GLU	C-N-CA	7.96	131.72	120.42
23	N	421	ASP	CA-C-N	7.95	130.78	120.44
23	N	421	ASP	C-N-CA	7.95	130.78	120.44
16	G	169	GLN	CA-C-N	7.95	130.93	120.28
16	G	169	GLN	C-N-CA	7.95	130.93	120.28
6	6	77	ILE	N-CA-C	7.94	118.72	110.62
22	M	178	GLU	CA-C-O	-7.94	112.60	121.89
23	N	27	SER	CA-C-N	7.94	131.34	120.46
23	N	27	SER	C-N-CA	7.94	131.34	120.46
29	T	112	ASN	CA-C-N	7.94	130.91	120.28
29	T	112	ASN	C-N-CA	7.94	130.91	120.28
28	S	305	LYS	CA-C-N	7.93	133.63	120.70
28	S	305	LYS	C-N-CA	7.93	133.63	120.70
3	3	87	TYR	CA-C-N	7.92	131.69	120.28
3	3	87	TYR	C-N-CA	7.92	131.69	120.28
24	O	109	LEU	CB-CA-C	-7.92	107.44	116.54
1	1	74	SER	CA-C-N	7.92	130.89	120.28
1	1	74	SER	C-N-CA	7.92	130.89	120.28
27	R	289	ILE	N-CA-C	-7.92	103.19	111.58
26	Q	331	THR	N-CA-C	7.91	119.98	111.36
23	N	683	LEU	CA-C-N	7.90	130.87	120.28
23	N	683	LEU	C-N-CA	7.90	130.87	120.28
19	J	326	GLU	CA-C-N	7.90	131.64	120.42
19	J	326	GLU	C-N-CA	7.90	131.64	120.42
17	H	68	GLY	CA-C-O	-7.89	112.29	120.66
35	Z	839	SER	N-CA-C	-7.89	103.21	112.92
7	7	76	GLU	CA-C-O	-7.89	111.48	120.24
28	S	168	LEU	O-C-N	7.89	130.48	122.12
21	L	390	ASP	CA-C-N	7.88	131.61	120.42
21	L	390	ASP	C-N-CA	7.88	131.61	120.42
22	M	69	ILE	CA-C-N	7.88	130.84	120.28
22	M	69	ILE	C-N-CA	7.88	130.84	120.28
22	M	414	ASP	CA-C-N	7.88	131.48	120.29
22	M	414	ASP	C-N-CA	7.88	131.48	120.29
27	R	79	LEU	N-CA-C	-7.88	105.64	114.62
26	Q	227	CYS	N-CA-C	-7.87	104.20	113.88
17	H	251	PRO	CA-C-O	-7.86	114.52	120.73
35	Z	438	LYS	N-CA-C	7.86	120.93	111.82
1	1	113	ILE	CA-C-N	7.85	129.65	119.84
1	1	113	ILE	C-N-CA	7.85	129.65	119.84
29	T	28	PRO	N-CA-C	7.85	120.28	110.70
29	T	119	THR	N-CA-C	-7.85	102.80	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	Z	603	VAL	N-CA-C	7.85	118.62	110.62
19	J	364	GLU	CA-C-N	7.84	130.79	120.28
19	J	364	GLU	C-N-CA	7.84	130.79	120.28
16	G	223	THR	N-CA-C	-7.84	105.68	114.62
20	K	410	ALA	CA-C-N	7.84	130.63	120.44
20	K	410	ALA	C-N-CA	7.84	130.63	120.44
25	P	126	THR	N-CA-C	-7.84	101.76	112.03
30	U	88	LYS	CA-C-N	7.84	132.71	121.50
30	U	88	LYS	C-N-CA	7.84	132.71	121.50
20	K	64	GLN	CA-C-N	7.84	130.63	120.44
20	K	64	GLN	C-N-CA	7.84	130.63	120.44
33	X	126	ILE	CA-C-N	7.82	128.60	120.00
33	X	126	ILE	C-N-CA	7.82	128.60	120.00
35	Z	846	PHE	O-C-N	7.81	130.40	122.12
4	4	70	GLU	CA-C-N	7.81	133.24	122.07
4	4	70	GLU	C-N-CA	7.81	133.24	122.07
17	H	67	ALA	CA-C-N	7.81	128.59	120.00
17	H	67	ALA	C-N-CA	7.81	128.59	120.00
26	Q	298	ALA	O-C-N	-7.81	113.84	122.12
31	V	66	VAL	CA-C-N	-7.80	107.58	122.09
31	V	66	VAL	C-N-CA	-7.80	107.58	122.09
35	Z	822	THR	N-CA-C	-7.79	97.35	108.96
11	B	140	ASP	N-CA-C	-7.79	96.45	108.76
17	H	426	ALA	N-CA-C	7.78	119.76	111.28
27	R	378	ASN	CA-C-N	7.77	134.15	123.11
27	R	378	ASN	C-N-CA	7.77	134.15	123.11
17	H	172	MET	N-CA-C	7.77	127.35	110.80
20	K	263	GLU	N-CA-C	7.77	119.38	111.07
28	S	458	GLN	CA-C-N	7.77	130.69	120.28
28	S	458	GLN	C-N-CA	7.77	130.69	120.28
28	S	251	SER	CA-C-N	7.76	130.68	120.28
28	S	251	SER	C-N-CA	7.76	130.68	120.28
25	P	144	VAL	CA-C-N	7.76	130.68	120.28
25	P	144	VAL	C-N-CA	7.76	130.68	120.28
23	N	373	VAL	N-CA-C	-7.75	103.30	110.82
16	G	216	SER	N-CA-C	-7.75	97.41	108.96
32	W	112	ALA	O-C-N	-7.75	113.79	123.17
1	1	27	ALA	CA-C-O	7.75	128.76	120.55
14	E	224	LYS	N-CA-C	-7.75	103.89	112.72
35	Z	523	ALA	CA-C-N	7.74	131.29	120.29
35	Z	523	ALA	C-N-CA	7.74	131.29	120.29
26	Q	281	ILE	CA-C-N	7.74	131.28	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	Q	281	ILE	C-N-CA	7.74	131.28	120.29
10	A	241	ILE	O-C-N	-7.74	113.86	121.83
11	B	67	LEU	N-CA-C	-7.74	101.69	112.45
35	Z	442	VAL	CA-C-N	7.73	130.64	120.28
35	Z	442	VAL	C-N-CA	7.73	130.64	120.28
22	M	183	VAL	N-CA-C	-7.73	97.28	108.11
23	N	544	GLU	CA-C-N	7.73	130.64	120.28
23	N	544	GLU	C-N-CA	7.73	130.64	120.28
25	P	395	ARG	CA-C-O	-7.73	111.22	118.33
27	R	86	ASP	N-CA-C	-7.72	101.69	113.89
29	T	59	LYS	N-CA-C	7.72	119.69	111.28
27	R	151	GLU	O-C-N	7.72	130.02	122.07
17	H	164	SER	O-C-N	-7.72	112.51	121.23
23	N	874	ILE	N-CA-C	-7.72	96.61	107.80
19	J	155	LYS	O-C-N	7.71	130.94	122.15
28	S	334	HIS	CA-C-O	7.71	128.81	120.10
14	E	159	GLU	CA-C-N	7.69	128.35	120.04
14	E	159	GLU	C-N-CA	7.69	128.35	120.04
25	P	29	GLN	OE1-CD-NE2	-7.68	114.92	122.60
5	5	122	LEU	O-C-N	-7.68	113.90	123.27
15	F	22	VAL	CA-C-N	7.68	131.34	120.28
15	F	22	VAL	C-N-CA	7.68	131.34	120.28
12	C	153	PRO	CA-C-N	7.68	131.19	120.29
12	C	153	PRO	C-N-CA	7.68	131.19	120.29
6	6	88	LEU	CA-C-O	7.67	128.88	120.82
3	3	74	GLU	CA-C-O	-7.67	112.91	120.97
18	I	209	GLU	N-CA-C	7.67	119.27	111.07
21	L	332	THR	N-CA-C	-7.66	102.48	113.21
23	N	398	ARG	CA-C-N	7.66	131.17	120.29
23	N	398	ARG	C-N-CA	7.66	131.17	120.29
28	S	201	ILE	N-CA-C	-7.66	97.54	108.65
17	H	203	LYS	CA-C-O	-7.65	109.67	120.16
16	G	126	ASN	N-CA-C	-7.65	103.95	113.28
25	P	373	GLU	O-C-N	7.65	131.17	122.22
35	Z	745	LEU	CA-C-N	7.65	130.94	120.46
35	Z	745	LEU	C-N-CA	7.65	130.94	120.46
5	5	26	VAL	CA-C-N	7.64	131.15	120.29
5	5	26	VAL	C-N-CA	7.64	131.15	120.29
11	B	160	LYS	N-CA-C	-7.64	104.85	114.56
18	I	399	ALA	CA-C-N	7.64	129.69	120.14
18	I	399	ALA	C-N-CA	7.64	129.69	120.14
28	S	352	VAL	CA-C-N	7.63	130.36	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	S	352	VAL	C-N-CA	7.63	130.36	120.44
17	H	285	GLY	O-C-N	-7.63	112.87	122.41
29	T	144	TYR	O-C-N	-7.63	113.69	120.48
28	S	157	GLU	CA-C-N	7.62	130.50	120.28
28	S	157	GLU	C-N-CA	7.62	130.50	120.28
26	Q	117	VAL	CA-C-N	7.62	130.49	120.28
26	Q	117	VAL	C-N-CA	7.62	130.49	120.28
35	Z	61	SER	N-CA-C	7.62	119.66	111.36
26	Q	72	ASP	CA-C-N	7.61	131.10	120.29
26	Q	72	ASP	C-N-CA	7.61	131.10	120.29
20	K	346	ARG	CA-C-N	7.61	130.48	120.28
20	K	346	ARG	C-N-CA	7.61	130.48	120.28
23	N	365	PHE	CA-C-N	7.61	130.33	120.44
23	N	365	PHE	C-N-CA	7.61	130.33	120.44
35	Z	363	ASP	N-CA-C	7.61	119.47	111.03
20	K	125	THR	N-CA-C	-7.60	103.07	112.88
5	5	81	LYS	CA-C-N	7.59	130.13	120.56
5	5	81	LYS	C-N-CA	7.59	130.13	120.56
17	H	252	PRO	CA-C-O	-7.59	112.41	121.67
35	Z	88	PRO	O-C-N	7.59	132.52	122.27
16	G	117	GLN	CA-C-O	-7.59	111.24	119.97
17	H	426	ALA	CA-C-N	7.59	128.40	119.98
17	H	426	ALA	C-N-CA	7.59	128.40	119.98
23	N	109	TYR	CA-C-N	7.59	130.12	120.56
23	N	109	TYR	C-N-CA	7.59	130.12	120.56
33	X	76	VAL	CA-C-O	-7.59	114.81	119.51
22	M	388	GLY	N-CA-C	7.59	122.08	112.83
25	P	112	LEU	CA-C-N	7.58	130.44	120.28
25	P	112	LEU	C-N-CA	7.58	130.44	120.28
29	T	177	PHE	CA-C-N	7.58	130.78	120.54
29	T	177	PHE	C-N-CA	7.58	130.78	120.54
23	N	379	LEU	N-CA-C	-7.58	102.56	112.41
3	3	75	PRO	CA-C-N	7.57	130.42	120.28
3	3	75	PRO	C-N-CA	7.57	130.42	120.28
17	H	234	ARG	CA-C-N	7.57	130.42	120.28
17	H	234	ARG	C-N-CA	7.57	130.42	120.28
19	J	160	ILE	CA-C-N	7.57	130.28	120.44
19	J	160	ILE	C-N-CA	7.57	130.28	120.44
23	N	96	GLN	CA-C-N	7.56	130.75	120.54
23	N	96	GLN	C-N-CA	7.56	130.75	120.54
31	V	280	LEU	N-CA-C	7.56	119.52	111.28
18	I	194	ILE	CA-C-N	7.56	130.73	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	I	194	ILE	C-N-CA	7.56	130.73	120.38
17	H	275	ILE	CA-C-N	7.55	128.49	120.03
17	H	275	ILE	C-N-CA	7.55	128.49	120.03
30	U	69	ASP	O-C-N	-7.55	113.44	122.65
11	B	188	ALA	CA-C-N	7.55	131.14	120.42
11	B	188	ALA	C-N-CA	7.55	131.14	120.42
14	E	23	GLN	CA-C-O	-7.54	112.48	120.63
35	Z	397	ASP	CA-C-N	7.54	130.72	120.38
35	Z	397	ASP	C-N-CA	7.54	130.72	120.38
28	S	340	LYS	O-C-N	7.54	130.11	122.12
34	Y	80	GLU	N-CA-C	7.54	119.13	111.07
11	B	42	GLY	CA-C-O	7.53	128.58	120.97
17	H	409	ARG	N-CA-C	7.53	120.37	111.71
18	I	264	CYS	CA-C-N	7.53	130.68	120.44
18	I	264	CYS	C-N-CA	7.53	130.68	120.44
26	Q	344	GLU	CA-C-N	7.53	130.37	120.28
26	Q	344	GLU	C-N-CA	7.53	130.37	120.28
22	M	54	GLU	O-C-N	-7.53	114.14	122.12
23	N	172	SER	CA-C-O	-7.52	112.58	120.55
27	R	158	LEU	N-CA-C	-7.52	103.16	111.36
24	O	203	THR	CB-CA-C	-7.52	106.84	115.79
6	6	52	GLY	CA-C-N	7.52	130.21	120.44
6	6	52	GLY	C-N-CA	7.52	130.21	120.44
18	I	80	GLU	N-CA-C	7.52	119.47	111.28
20	K	65	GLU	CA-C-O	-7.50	112.95	120.82
35	Z	510	LEU	O-C-N	-7.49	113.67	120.71
27	R	351	LYS	N-CA-C	-7.49	103.05	111.14
31	V	100	ARG	N-CA-C	-7.49	104.65	114.31
7	7	211	TRP	CA-C-N	7.49	130.64	120.38
7	7	211	TRP	C-N-CA	7.49	130.64	120.38
7	7	113	SER	N-CA-C	-7.49	103.71	112.92
2	2	157	ASP	CA-C-N	7.47	130.15	120.44
2	2	157	ASP	C-N-CA	7.47	130.15	120.44
17	H	335	GLU	CA-C-N	7.47	130.29	120.28
17	H	335	GLU	C-N-CA	7.47	130.29	120.28
30	U	262	GLN	CA-C-N	7.47	131.17	120.79
30	U	262	GLN	C-N-CA	7.47	131.17	120.79
19	J	170	HIS	O-C-N	-7.46	116.00	121.23
23	N	250	ASP	N-CA-C	-7.46	95.99	108.75
35	Z	108	ASP	O-C-N	-7.46	116.94	121.71
22	M	398	ALA	CA-C-N	7.46	129.69	120.22
22	M	398	ALA	C-N-CA	7.46	129.69	120.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	F	55	GLU	N-CA-C	-7.46	102.09	112.45
29	T	18	GLY	CA-C-N	7.46	132.95	122.36
29	T	18	GLY	C-N-CA	7.46	132.95	122.36
23	N	26	GLU	CA-C-N	7.45	130.57	120.44
23	N	26	GLU	C-N-CA	7.45	130.57	120.44
28	S	233	LEU	CA-C-N	7.44	130.65	120.46
28	S	233	LEU	C-N-CA	7.44	130.65	120.46
14	E	66	LYS	N-CA-C	-7.43	102.46	112.94
16	G	46	VAL	N-CA-C	-7.43	97.39	108.46
28	S	230	LYS	N-CA-C	7.43	119.02	111.07
4	4	51	ASP	CA-C-N	7.42	131.11	120.79
4	4	51	ASP	C-N-CA	7.42	131.11	120.79
5	5	82	ILE	CA-C-N	7.42	130.09	120.44
5	5	82	ILE	C-N-CA	7.42	130.09	120.44
29	T	34	LEU	CA-C-N	7.42	130.62	120.46
29	T	34	LEU	C-N-CA	7.42	130.62	120.46
35	Z	134	SER	N-CA-C	-7.42	95.00	110.80
28	S	277	SER	CA-C-N	7.42	130.22	120.28
28	S	277	SER	C-N-CA	7.42	130.22	120.28
26	Q	415	LEU	CA-C-N	7.41	130.16	120.60
26	Q	415	LEU	C-N-CA	7.41	130.16	120.60
14	E	192	THR	CA-C-N	7.41	130.07	120.44
14	E	192	THR	C-N-CA	7.41	130.07	120.44
16	G	68	VAL	CA-C-O	-7.41	113.63	121.93
18	I	377	LEU	CA-C-N	7.41	130.20	120.28
18	I	377	LEU	C-N-CA	7.41	130.20	120.28
19	J	147	TYR	CA-C-O	-7.41	109.63	119.11
30	U	301	ILE	O-C-N	7.41	129.05	121.87
16	G	45	VAL	O-C-N	-7.40	114.56	123.00
14	E	86	ARG	N-CA-C	7.40	119.43	111.36
21	L	214	PRO	O-C-N	-7.40	117.91	121.31
35	Z	573	LEU	N-CA-C	7.40	120.22	111.71
7	7	174	ARG	N-CA-C	-7.40	102.59	111.69
7	7	191	ILE	N-CA-C	-7.40	97.75	108.11
16	G	81	ILE	CB-CA-C	-7.40	104.31	114.00
31	V	279	HIS	ND1-CG-CD2	7.39	113.49	106.10
35	Z	623	ARG	CA-C-N	7.39	130.78	120.29
35	Z	623	ARG	C-N-CA	7.39	130.78	120.29
23	N	591	LEU	CA-C-N	7.39	129.37	120.14
23	N	591	LEU	C-N-CA	7.39	129.37	120.14
35	Z	53	VAL	N-CA-C	7.38	119.04	110.62
31	V	255	ILE	N-CA-C	-7.38	103.26	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	3	146	GLU	CA-C-O	-7.38	112.16	119.69
22	M	58	MET	CA-C-N	7.38	135.64	121.54
22	M	58	MET	C-N-CA	7.38	135.64	121.54
28	S	135	ASN	CA-C-N	7.38	130.03	120.44
28	S	135	ASN	C-N-CA	7.38	130.03	120.44
29	T	227	PRO	CA-C-O	-7.38	112.86	121.86
23	N	398	ARG	N-CA-C	-7.37	104.43	113.50
24	O	384	MET	CA-C-N	7.37	130.49	120.54
24	O	384	MET	C-N-CA	7.37	130.49	120.54
12	C	82	ALA	N-CA-C	7.37	119.31	111.28
23	N	101	ILE	CA-C-O	-7.37	110.66	119.58
10	A	14	ARG	N-CA-C	-7.37	102.90	113.21
19	J	244	ILE	N-CA-C	-7.37	97.24	107.99
23	N	717	LEU	N-CA-C	-7.36	101.49	111.87
23	N	907	ASP	CA-CB-CG	-7.36	105.24	112.60
20	K	60	LEU	CA-C-N	7.36	130.14	120.28
20	K	60	LEU	C-N-CA	7.36	130.14	120.28
27	R	192	GLU	CA-C-N	7.36	130.36	120.65
27	R	192	GLU	C-N-CA	7.36	130.36	120.65
20	K	254	VAL	CA-C-N	7.35	130.00	120.44
20	K	254	VAL	C-N-CA	7.35	130.00	120.44
26	Q	89	ALA	CA-C-N	7.35	130.13	120.28
26	Q	89	ALA	C-N-CA	7.35	130.13	120.28
25	P	412	LEU	O-C-N	7.35	129.64	122.07
27	R	376	GLN	N-CA-C	-7.35	104.34	113.38
19	J	365	ALA	CA-C-N	7.35	128.14	119.98
19	J	365	ALA	C-N-CA	7.35	128.14	119.98
23	N	872	THR	N-CA-C	-7.35	98.19	109.14
35	Z	543	THR	N-CA-C	7.34	118.93	111.07
29	T	157	TYR	CA-C-N	7.34	130.11	120.28
29	T	157	TYR	C-N-CA	7.34	130.11	120.28
29	T	28	PRO	CA-C-N	7.34	127.35	119.28
29	T	28	PRO	C-N-CA	7.34	127.35	119.28
20	K	221	MET	CA-C-N	7.33	130.11	120.28
20	K	221	MET	C-N-CA	7.33	130.11	120.28
11	B	156	TYR	CA-C-O	-7.33	113.11	121.40
28	S	181	ALA	CA-C-N	7.33	130.43	120.54
28	S	181	ALA	C-N-CA	7.33	130.43	120.54
28	S	205	ASN	CA-C-N	7.33	130.40	120.44
28	S	205	ASN	C-N-CA	7.33	130.40	120.44
20	K	58	TYR	N-CA-C	7.32	119.26	111.28
26	Q	213	GLN	CA-C-N	7.32	129.96	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	Q	213	GLN	C-N-CA	7.32	129.96	120.44
26	Q	301	ALA	CA-C-O	-7.32	112.66	120.42
17	H	231	SER	CA-C-N	7.32	126.95	119.19
17	H	231	SER	C-N-CA	7.32	126.95	119.19
28	S	343	LEU	O-C-N	7.32	126.99	120.48
22	M	200	PRO	CA-C-N	7.32	130.39	120.44
22	M	200	PRO	C-N-CA	7.32	130.39	120.44
11	B	120	GLU	O-C-N	7.31	129.87	122.12
29	T	77	SER	CA-C-O	7.31	128.17	120.42
31	V	48	GLU	N-CA-C	7.31	126.36	110.80
35	Z	467	VAL	N-CA-C	7.30	117.73	108.82
11	B	202	GLY	O-C-N	7.30	132.19	122.70
20	K	250	GLY	CA-C-O	-7.30	111.08	121.52
20	K	253	MET	N-CA-C	7.29	119.31	111.36
6	6	195	ILE	N-CA-C	-7.29	97.91	108.11
22	M	319	ASP	N-CA-C	-7.29	95.09	107.99
31	V	126	GLN	CA-C-N	7.28	130.35	120.38
31	V	126	GLN	C-N-CA	7.28	130.35	120.38
5	5	109	GLY	CA-C-N	7.28	128.42	119.98
5	5	109	GLY	C-N-CA	7.28	128.42	119.98
31	V	117	TRP	CA-C-N	7.28	130.03	120.28
31	V	117	TRP	C-N-CA	7.28	130.03	120.28
3	3	72	ALA	CA-C-N	7.27	130.24	120.50
3	3	72	ALA	C-N-CA	7.27	130.24	120.50
6	6	188	GLN	N-CA-C	-7.27	104.66	113.97
16	G	113	ASP	CA-C-N	7.27	130.02	120.28
16	G	113	ASP	C-N-CA	7.27	130.02	120.28
3	3	151	PRO	N-CA-C	7.27	124.58	113.75
23	N	143	LYS	N-CA-C	7.26	119.83	111.11
19	J	79	VAL	CA-C-N	7.26	136.46	121.94
19	J	79	VAL	C-N-CA	7.26	136.46	121.94
27	R	224	PHE	CA-C-N	7.26	130.01	120.28
27	R	224	PHE	C-N-CA	7.26	130.01	120.28
20	K	69	LYS	CA-C-N	7.26	130.60	120.29
20	K	69	LYS	C-N-CA	7.26	130.60	120.29
28	S	327	ILE	CA-C-O	-7.26	115.01	119.51
35	Z	427	GLN	N-CA-C	7.26	119.67	110.24
35	Z	570	LEU	CA-C-N	7.25	127.84	119.94
35	Z	570	LEU	C-N-CA	7.25	127.84	119.94
27	R	120	LEU	CA-C-N	7.25	131.32	120.31
27	R	120	LEU	C-N-CA	7.25	131.32	120.31
16	G	234	LEU	N-CA-C	7.24	119.17	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	Q	235	ALA	CA-C-N	7.24	129.85	120.44
26	Q	235	ALA	C-N-CA	7.24	129.85	120.44
35	Z	491	LEU	CA-C-N	7.24	127.98	119.94
35	Z	491	LEU	C-N-CA	7.24	127.98	119.94
32	W	33	VAL	O-C-N	7.24	129.29	121.83
35	Z	815	MET	CA-C-N	7.24	129.19	120.14
35	Z	815	MET	C-N-CA	7.24	129.19	120.14
6	6	117	ASP	N-CA-C	-7.24	100.05	110.40
20	K	67	TYR	N-CA-C	7.24	119.17	111.28
22	M	264	ARG	N-CA-C	7.24	119.17	111.28
3	3	165	ALA	CA-C-N	7.23	129.97	120.28
3	3	165	ALA	C-N-CA	7.23	129.97	120.28
1	1	19	ARG	N-CA-C	-7.23	95.39	110.80
35	Z	69	ASN	CA-C-O	-7.23	113.23	120.82
22	M	251	LEU	O-C-N	7.23	130.92	122.17
20	K	193	VAL	CA-C-O	-7.23	113.19	120.85
26	Q	49	LYS	N-CA-C	-7.23	103.12	112.23
32	W	80	GLN	N-CA-C	-7.23	97.12	108.90
4	4	24	ILE	O-C-N	7.22	129.96	121.80
21	L	197	ILE	CA-C-N	7.22	130.26	120.44
21	L	197	ILE	C-N-CA	7.22	130.26	120.44
5	5	14	VAL	N-CA-C	-7.21	98.02	108.11
11	B	210	GLU	N-CA-C	-7.21	96.57	108.76
20	K	330	ARG	CA-C-N	7.21	128.85	119.84
20	K	330	ARG	C-N-CA	7.21	128.85	119.84
35	Z	541	ASP	CA-C-N	7.21	129.65	120.56
35	Z	541	ASP	C-N-CA	7.21	129.65	120.56
10	A	191	ILE	CA-C-N	7.21	133.66	122.49
10	A	191	ILE	C-N-CA	7.21	133.66	122.49
17	H	255	GLY	N-CA-C	-7.21	104.65	115.32
4	4	31	ASP	CA-C-O	7.21	129.23	121.16
5	5	77	ALA	N-CA-C	7.21	119.14	111.28
23	N	917	ILE	CA-C-N	7.21	132.35	122.19
23	N	917	ILE	C-N-CA	7.21	132.35	122.19
25	P	419	VAL	CA-C-N	7.21	129.94	120.28
25	P	419	VAL	C-N-CA	7.21	129.94	120.28
7	7	208	ASN	CA-C-N	7.20	130.94	120.71
7	7	208	ASN	C-N-CA	7.20	130.94	120.71
21	L	176	GLY	N-CA-C	-7.20	100.62	111.14
11	B	91	LYS	N-CA-C	7.20	118.91	111.14
14	E	22	PHE	CA-C-N	7.20	130.24	120.38
14	E	22	PHE	C-N-CA	7.20	130.24	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	5	50	ALA	CA-C-N	7.19	130.25	120.54
5	5	50	ALA	C-N-CA	7.19	130.25	120.54
7	7	47	GLY	CA-C-N	7.19	130.96	120.82
7	7	47	GLY	C-N-CA	7.19	130.96	120.82
18	I	264	CYS	N-CA-C	7.19	119.12	111.28
29	T	157	TYR	O-C-N	7.19	129.86	122.09
13	D	172	ARG	CA-C-O	7.19	128.10	120.70
34	Y	88	ASN	N-CA-C	-7.19	104.53	112.72
6	6	108	ASP	N-CA-C	-7.18	104.38	113.72
20	K	148	ASP	CA-C-N	7.18	132.37	123.10
20	K	148	ASP	C-N-CA	7.18	132.37	123.10
28	S	128	ILE	CA-C-N	7.18	129.78	120.44
28	S	128	ILE	C-N-CA	7.18	129.78	120.44
15	F	66	CYS	N-CA-C	-7.18	104.65	113.41
27	R	254	SER	N-CA-C	7.17	119.10	111.28
4	4	148	ARG	CA-C-N	7.17	127.20	119.89
4	4	148	ARG	C-N-CA	7.17	127.20	119.89
28	S	301	PRO	N-CA-C	-7.17	104.59	114.27
35	Z	897	HIS	N-CA-C	7.17	120.38	110.35
25	P	129	LYS	N-CA-C	-7.16	103.52	112.90
23	N	170	LEU	CA-C-N	7.16	130.74	120.79
23	N	170	LEU	C-N-CA	7.16	130.74	120.79
6	6	31	GLU	N-CA-C	-7.16	93.99	109.81
35	Z	63	LEU	CA-C-N	7.16	129.75	120.44
35	Z	63	LEU	C-N-CA	7.16	129.75	120.44
31	V	77	GLY	O-C-N	-7.16	114.23	122.96
18	I	370	ASN	CA-C-O	-7.16	112.66	120.24
4	4	32	ASP	O-C-N	-7.15	115.25	123.33
18	I	140	LEU	N-CA-C	-7.15	102.86	112.94
21	L	214	PRO	N-CA-C	7.15	117.33	110.47
35	Z	800	SER	O-C-N	7.15	129.70	122.12
1	1	111	TYR	CA-C-N	7.15	132.86	123.00
1	1	111	TYR	C-N-CA	7.15	132.86	123.00
35	Z	405	ASN	CA-C-N	7.15	129.86	120.28
35	Z	405	ASN	C-N-CA	7.15	129.86	120.28
15	F	217	GLY	CA-C-N	7.14	130.17	120.38
15	F	217	GLY	C-N-CA	7.14	130.17	120.38
19	J	28	GLN	CA-C-O	7.14	128.32	120.82
28	S	431	VAL	N-CA-C	-7.14	103.51	110.72
20	K	301	THR	N-CA-C	-7.14	103.43	111.14
23	N	500	ASP	CA-C-N	7.14	130.42	120.29
23	N	500	ASP	C-N-CA	7.14	130.42	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	C	229	ILE	CA-C-N	7.13	130.88	120.82
12	C	229	ILE	C-N-CA	7.13	130.88	120.82
1	1	160	SER	N-CA-C	7.13	120.09	111.82
1	1	53	GLN	CA-C-N	7.13	129.71	120.44
1	1	53	GLN	C-N-CA	7.13	129.71	120.44
26	Q	40	ALA	O-C-N	-7.13	114.66	122.79
23	N	445	GLY	O-C-N	7.13	130.05	122.28
1	1	194	GLU	CA-C-O	-7.12	113.34	120.82
26	Q	217	GLU	N-CA-C	7.12	119.90	111.71
33	X	56	PRO	O-C-N	-7.12	113.03	122.64
16	G	69	VAL	N-CA-C	-7.12	97.77	108.17
13	D	169	LYS	CA-C-N	7.12	129.69	120.44
13	D	169	LYS	C-N-CA	7.12	129.69	120.44
22	M	64	ASP	N-CA-C	7.12	118.69	111.07
26	Q	51	ARG	N-CA-C	7.12	119.12	111.36
28	S	298	ARG	CA-C-O	-7.12	113.36	121.19
18	I	160	LEU	CA-C-N	7.11	131.59	121.42
18	I	160	LEU	C-N-CA	7.11	131.59	121.42
20	K	378	LEU	N-CA-C	-7.11	98.34	109.72
23	N	122	GLN	N-CA-C	-7.11	102.18	111.71
25	P	420	ASP	CA-C-N	7.11	130.39	120.29
25	P	420	ASP	C-N-CA	7.11	130.39	120.29
5	5	181	THR	N-CA-C	-7.11	99.69	110.14
29	T	144	TYR	CA-C-N	7.10	126.94	119.05
29	T	144	TYR	C-N-CA	7.10	126.94	119.05
27	R	388	VAL	N-CA-C	-7.10	97.88	108.46
26	Q	96	VAL	CA-C-N	7.10	129.67	120.44
26	Q	96	VAL	C-N-CA	7.10	129.67	120.44
14	E	30	ALA	CA-C-N	7.10	130.19	120.46
14	E	30	ALA	C-N-CA	7.10	130.19	120.46
25	P	390	TYR	CA-C-N	7.10	133.94	121.80
25	P	390	TYR	C-N-CA	7.10	133.94	121.80
29	T	1	MET	CA-C-N	7.10	127.13	119.89
29	T	1	MET	C-N-CA	7.10	127.13	119.89
5	5	140	LEU	CA-C-N	7.10	129.79	120.28
5	5	140	LEU	C-N-CA	7.10	129.79	120.28
29	T	76	ASP	O-C-N	-7.10	114.60	122.12
18	I	151	HIS	CA-C-O	-7.10	113.31	120.90
25	P	41	VAL	CA-C-N	7.09	129.79	120.28
25	P	41	VAL	C-N-CA	7.09	129.79	120.28
11	B	122	THR	N-CA-C	-7.09	104.26	113.12
10	A	225	VAL	CA-C-N	7.09	126.47	121.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	A	225	VAL	C-N-CA	7.09	126.47	121.65
3	3	132	THR	N-CA-C	-7.08	103.49	111.14
3	3	139	GLY	CA-C-N	7.08	129.65	120.44
3	3	139	GLY	C-N-CA	7.08	129.65	120.44
35	Z	505	VAL	CA-C-N	7.08	129.77	120.28
35	Z	505	VAL	C-N-CA	7.08	129.77	120.28
27	R	84	LYS	CA-C-O	-7.08	114.05	121.55
18	I	210	GLU	CA-C-N	7.08	129.76	120.28
18	I	210	GLU	C-N-CA	7.08	129.76	120.28
30	U	205	LYS	O-C-N	7.08	129.45	122.09
10	A	118	ALA	CA-C-O	7.07	128.19	120.90
27	R	39	SER	CA-C-N	7.07	130.46	120.42
27	R	39	SER	C-N-CA	7.07	130.46	120.42
31	V	230	TYR	CA-C-N	7.07	131.43	120.82
31	V	230	TYR	C-N-CA	7.07	131.43	120.82
23	N	37	SER	CA-C-N	7.07	130.33	120.29
23	N	37	SER	C-N-CA	7.07	130.33	120.29
28	S	346	TYR	CA-C-N	7.07	129.62	120.44
28	S	346	TYR	C-N-CA	7.07	129.62	120.44
15	F	114	ASP	CA-C-N	7.06	130.32	120.29
15	F	114	ASP	C-N-CA	7.06	130.32	120.29
35	Z	979	GLY	N-CA-C	-7.06	102.27	111.52
19	J	28	GLN	O-C-N	-7.06	114.80	122.07
25	P	380	ILE	CA-C-N	7.05	130.31	120.29
25	P	380	ILE	C-N-CA	7.05	130.31	120.29
21	L	397	GLU	CA-C-N	7.05	129.73	120.28
21	L	397	GLU	C-N-CA	7.05	129.73	120.28
1	1	70	TYR	N-CA-C	-7.05	103.03	113.61
28	S	150	LYS	CA-C-N	7.05	135.01	121.54
28	S	150	LYS	C-N-CA	7.05	135.01	121.54
12	C	169	THR	O-C-N	7.05	129.70	122.09
17	H	250	GLY	O-C-N	-7.05	114.72	121.77
22	M	412	HIS	CA-C-N	7.05	130.30	120.29
22	M	412	HIS	C-N-CA	7.05	130.30	120.29
35	Z	884	THR	CA-C-O	-7.05	112.95	120.42
11	B	136	ILE	CA-C-O	-7.05	113.06	120.39
12	C	109	GLU	N-CA-C	7.05	118.96	111.28
13	D	229	ILE	CA-C-O	-7.04	113.38	120.85
20	K	75	LEU	N-CA-C	7.04	119.81	111.71
25	P	278	ASN	CA-C-N	7.04	129.59	120.44
25	P	278	ASN	C-N-CA	7.04	129.59	120.44
18	I	136	VAL	N-CA-C	-7.04	97.21	108.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	M	315	PHE	CA-C-N	7.04	129.72	120.28
22	M	315	PHE	C-N-CA	7.04	129.72	120.28
23	N	63	LEU	N-CA-C	7.04	118.60	111.07
20	K	208	GLY	N-CA-C	-7.04	100.14	110.90
31	V	286	GLU	CA-C-N	7.04	129.71	120.28
31	V	286	GLU	C-N-CA	7.04	129.71	120.28
10	A	226	GLY	N-CA-C	-7.03	99.15	111.46
26	Q	369	ASP	CA-C-N	7.03	130.01	120.44
26	Q	369	ASP	C-N-CA	7.03	130.01	120.44
23	N	243	LYS	O-C-N	7.03	130.92	122.27
13	D	229	ILE	O-C-N	7.03	129.07	121.83
14	E	173	GLY	CA-C-N	7.03	129.57	120.44
14	E	173	GLY	C-N-CA	7.03	129.57	120.44
30	U	78	GLU	O-C-N	-7.02	112.18	122.43
25	P	350	LEU	CA-C-N	7.02	129.69	120.28
25	P	350	LEU	C-N-CA	7.02	129.69	120.28
21	L	375	ASP	CA-C-N	7.02	130.38	120.28
21	L	375	ASP	C-N-CA	7.02	130.38	120.28
26	Q	376	LYS	CA-C-N	7.02	129.68	120.28
26	Q	376	LYS	C-N-CA	7.02	129.68	120.28
13	D	132	SER	N-CA-C	-7.01	98.50	109.72
24	O	51	ASP	N-CA-C	-7.01	98.36	108.60
16	G	81	ILE	N-CA-C	7.01	120.76	112.35
5	5	36	GLU	CA-C-N	7.01	129.95	120.77
5	5	36	GLU	C-N-CA	7.01	129.95	120.77
7	7	143	ALA	CA-C-N	7.00	128.84	120.09
7	7	143	ALA	C-N-CA	7.00	128.84	120.09
21	L	325	MET	N-CA-C	-7.00	98.82	109.95
28	S	378	GLN	N-CA-C	7.00	119.76	111.71
15	F	62	LYS	CA-C-N	7.00	132.31	123.14
15	F	62	LYS	C-N-CA	7.00	132.31	123.14
24	O	155	LYS	CA-C-N	7.00	129.66	120.28
24	O	155	LYS	C-N-CA	7.00	129.66	120.28
23	N	293	LEU	CA-C-N	7.00	127.30	119.32
23	N	293	LEU	C-N-CA	7.00	127.30	119.32
23	N	694	LEU	CA-C-N	6.99	129.65	120.28
23	N	694	LEU	C-N-CA	6.99	129.65	120.28
14	E	32	LYS	N-CA-C	-6.99	104.72	113.18
17	H	356	ASN	N-CA-C	-6.99	104.88	113.41
23	N	459	ASN	N-CA-C	-6.98	97.14	108.52
31	V	296	LEU	CA-C-N	6.98	129.94	120.38
31	V	296	LEU	C-N-CA	6.98	129.94	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	J	159	GLU	CA-C-N	6.98	130.33	120.42
19	J	159	GLU	C-N-CA	6.98	130.33	120.42
27	R	347	THR	N-CA-C	-6.98	96.97	108.76
1	1	174	ARG	N-CA-C	-6.97	98.56	109.72
12	C	98	TYR	CA-C-N	6.97	129.51	120.44
12	C	98	TYR	C-N-CA	6.97	129.51	120.44
17	H	252	PRO	O-C-N	6.97	131.64	123.06
27	R	93	LYS	N-CA-C	6.97	119.83	110.35
20	K	340	PHE	CA-C-N	6.97	128.55	119.84
20	K	340	PHE	C-N-CA	6.97	128.55	119.84
25	P	222	ASN	N-CA-C	6.97	118.88	111.28
35	Z	591	ILE	CA-C-O	6.97	127.14	120.31
12	C	40	ALA	N-CA-C	-6.97	98.95	109.96
27	R	250	ALA	CA-C-N	6.97	129.95	120.54
27	R	250	ALA	C-N-CA	6.97	129.95	120.54
14	E	102	TYR	N-CA-C	6.97	118.95	111.36
26	Q	16	ASN	O-C-N	6.97	130.09	122.15
33	X	89	LEU	N-CA-C	-6.97	95.83	108.02
12	C	231	LYS	CA-C-O	-6.96	113.66	120.97
1	1	194	GLU	O-C-N	6.96	129.24	122.07
22	M	286	ILE	N-CA-C	-6.96	106.03	112.43
10	A	242	GLU	CB-CA-C	-6.96	97.31	110.67
7	7	167	GLU	CA-C-O	-6.95	113.05	120.42
20	K	289	ASP	N-CA-C	-6.95	101.92	110.61
23	N	758	VAL	O-C-N	-6.95	116.29	123.03
14	E	23	GLN	CA-C-N	6.95	129.32	120.56
14	E	23	GLN	C-N-CA	6.95	129.32	120.56
25	P	29	GLN	N-CA-C	6.95	118.93	111.36
32	W	122	ARG	CA-C-N	6.95	129.59	120.28
32	W	122	ARG	C-N-CA	6.95	129.59	120.28
11	B	79	GLY	CA-C-N	6.95	126.76	119.05
11	B	79	GLY	C-N-CA	6.95	126.76	119.05
21	L	266	MET	CA-C-N	6.95	130.15	120.29
21	L	266	MET	C-N-CA	6.95	130.15	120.29
24	O	258	LEU	CA-C-N	6.95	129.88	120.44
24	O	258	LEU	C-N-CA	6.95	129.88	120.44
30	U	266	THR	CA-C-N	6.95	129.56	120.60
30	U	266	THR	C-N-CA	6.95	129.56	120.60
27	R	363	PHE	CA-C-N	6.94	129.59	120.28
27	R	363	PHE	C-N-CA	6.94	129.59	120.28
2	2	186	TYR	N-CA-C	6.94	119.87	109.25
29	T	138	ASP	N-CA-C	6.94	118.85	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	Z	363	ASP	O-C-N	-6.94	114.53	122.03
1	1	114	PRO	CA-C-N	6.94	130.86	120.31
1	1	114	PRO	C-N-CA	6.94	130.86	120.31
28	S	288	THR	CA-C-N	6.94	130.15	120.29
28	S	288	THR	C-N-CA	6.94	130.15	120.29
12	C	191	GLU	N-CA-C	6.94	118.50	111.07
12	C	90	THR	CA-C-N	6.94	130.14	120.29
12	C	90	THR	C-N-CA	6.94	130.14	120.29
13	D	117	GLN	CA-C-N	6.94	129.58	120.28
13	D	117	GLN	C-N-CA	6.94	129.58	120.28
18	I	82	LEU	CA-C-O	-6.93	113.20	120.55
26	Q	16	ASN	N-CA-C	6.93	118.92	111.36
32	W	86	HIS	ND1-CE1-NE2	6.93	115.33	108.40
26	Q	346	ASN	CA-C-N	6.93	129.45	120.44
26	Q	346	ASN	C-N-CA	6.93	129.45	120.44
20	K	219	LYS	CA-C-O	-6.93	113.55	120.82
14	E	85	ALA	CA-C-O	6.92	127.97	119.11
24	O	300	VAL	N-CA-C	6.92	117.68	110.62
27	R	391	ASN	N-CA-C	-6.92	97.68	109.24
28	S	170	TYR	N-CA-C	-6.92	103.82	111.36
31	V	284	ALA	CA-C-N	6.92	129.44	120.44
31	V	284	ALA	C-N-CA	6.92	129.44	120.44
11	B	90	ARG	O-C-N	6.92	129.46	122.12
15	F	112	LEU	CA-C-N	6.92	129.88	120.54
15	F	112	LEU	C-N-CA	6.92	129.88	120.54
16	G	151	GLU	CA-C-O	-6.92	114.92	121.08
17	H	233	GLU	N-CA-C	6.92	119.67	111.71
23	N	921	ARG	N-CA-C	-6.92	104.65	113.23
23	N	487	LEU	N-CA-C	6.92	118.82	111.28
23	N	626	GLY	CA-C-N	6.92	129.27	120.56
23	N	626	GLY	C-N-CA	6.92	129.27	120.56
11	B	119	GLN	CA-C-O	-6.91	113.09	120.42
12	C	191	GLU	CA-C-N	6.91	129.42	120.44
12	C	191	GLU	C-N-CA	6.91	129.42	120.44
31	V	78	VAL	N-CA-C	6.91	123.71	109.34
26	Q	194	SER	N-CA-C	6.91	118.89	111.36
7	7	91	VAL	CA-C-N	6.90	129.41	120.44
7	7	91	VAL	C-N-CA	6.90	129.41	120.44
21	L	205	GLU	CA-C-N	6.90	129.40	120.56
21	L	205	GLU	C-N-CA	6.90	129.40	120.56
18	I	250	SER	N-CA-C	6.90	118.80	111.28
28	S	168	LEU	CA-C-N	6.90	129.53	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	S	168	LEU	C-N-CA	6.90	129.53	120.28
35	Z	736	LEU	CA-C-N	6.90	129.53	120.28
35	Z	736	LEU	C-N-CA	6.90	129.53	120.28
28	S	408	CYS	CA-C-N	6.90	129.41	120.44
28	S	408	CYS	C-N-CA	6.90	129.41	120.44
13	D	34	VAL	O-C-N	-6.89	115.42	123.00
20	K	304	ASP	N-CA-C	6.89	119.81	111.82
19	J	201	ALA	O-C-N	6.89	129.16	122.07
15	F	15	PRO	CA-C-N	6.89	130.19	120.28
15	F	15	PRO	C-N-CA	6.89	130.19	120.28
35	Z	443	ASP	N-CA-C	6.89	118.79	111.28
15	F	20	PHE	CA-C-N	6.88	131.62	120.60
15	F	20	PHE	C-N-CA	6.88	131.62	120.60
17	H	54	ASN	CA-C-N	6.88	129.50	120.28
17	H	54	ASN	C-N-CA	6.88	129.50	120.28
30	U	268	LYS	CA-C-N	6.88	129.50	120.28
30	U	268	LYS	C-N-CA	6.88	129.50	120.28
17	H	367	ARG	CA-C-N	6.88	126.91	119.89
17	H	367	ARG	C-N-CA	6.88	126.91	119.89
16	G	135	THR	CA-C-N	6.88	131.72	123.19
16	G	135	THR	C-N-CA	6.88	131.72	123.19
22	M	266	ALA	O-C-N	6.88	129.99	122.15
2	2	134	ALA	N-CA-C	6.87	118.56	111.14
35	Z	253	VAL	CB-CA-C	-6.87	107.06	114.35
14	E	133	LEU	N-CA-C	-6.87	105.45	114.31
28	S	182	LYS	CA-C-N	6.87	129.36	120.44
28	S	182	LYS	C-N-CA	6.87	129.36	120.44
1	1	189	TYR	CA-C-N	6.86	126.38	119.24
1	1	189	TYR	C-N-CA	6.86	126.38	119.24
19	J	165	GLU	CA-C-N	6.86	128.67	120.09
19	J	165	GLU	C-N-CA	6.86	128.67	120.09
3	3	113	ALA	CA-C-N	6.86	127.48	121.58
3	3	113	ALA	C-N-CA	6.86	127.48	121.58
22	M	268	ALA	N-CA-C	6.86	118.76	111.28
27	R	382	ASP	CA-C-O	6.86	127.51	120.24
6	6	11	PHE	CA-C-O	-6.86	113.83	121.51
10	A	251	GLN	N-CA-C	-6.86	103.89	111.36
20	K	388	GLN	CA-C-N	6.86	129.47	120.28
20	K	388	GLN	C-N-CA	6.86	129.47	120.28
24	O	154	GLU	CA-C-O	-6.86	113.62	120.82
5	5	164	ALA	CA-C-N	6.86	129.47	120.28
5	5	164	ALA	C-N-CA	6.86	129.47	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	G	60	PRO	CA-C-N	6.86	131.86	122.19
16	G	60	PRO	C-N-CA	6.86	131.86	122.19
28	S	297	ILE	N-CA-C	-6.86	105.85	112.29
19	J	241	ALA	CA-C-O	-6.85	113.31	119.75
21	L	114	GLU	N-CA-C	-6.85	104.91	113.20
28	S	213	THR	CA-C-N	6.85	129.46	120.28
28	S	213	THR	C-N-CA	6.85	129.46	120.28
18	I	159	VAL	CA-C-O	-6.84	114.27	121.93
35	Z	70	ALA	CA-C-N	6.84	129.45	120.28
35	Z	70	ALA	C-N-CA	6.84	129.45	120.28
10	A	11	GLY	N-CA-C	-6.84	96.97	113.18
32	W	183	GLU	CA-C-N	6.84	129.44	120.28
32	W	183	GLU	C-N-CA	6.84	129.44	120.28
17	H	438	ALA	N-CA-C	-6.84	98.63	109.23
35	Z	489	ALA	N-CA-C	6.83	118.38	111.07
10	A	87	ILE	CA-C-N	6.83	126.64	119.05
10	A	87	ILE	C-N-CA	6.83	126.64	119.05
5	5	106	ARG	N-CA-C	-6.83	104.94	113.28
20	K	299	LEU	CA-C-N	6.83	129.99	120.29
20	K	299	LEU	C-N-CA	6.83	129.99	120.29
23	N	154	LEU	CA-C-N	6.83	127.71	119.99
23	N	154	LEU	C-N-CA	6.83	127.71	119.99
26	Q	182	SER	N-CA-C	6.83	118.73	111.28
28	S	214	MET	CA-C-N	6.83	129.43	120.28
28	S	214	MET	C-N-CA	6.83	129.43	120.28
28	S	312	GLN	CA-C-O	-6.83	113.18	120.42
6	6	145	VAL	N-CA-C	-6.83	105.18	111.67
27	R	62	TYR	N-CA-C	-6.83	104.76	113.23
5	5	3	THR	O-C-N	-6.83	115.03	123.36
23	N	260	ASP	N-CA-C	6.83	118.41	110.97
27	R	271	ILE	N-CA-C	-6.83	105.99	113.43
28	S	205	ASN	CA-C-O	-6.83	113.18	120.42
29	T	68	ALA	CA-C-N	6.83	129.43	120.28
29	T	68	ALA	C-N-CA	6.83	129.43	120.28
23	N	758	VAL	CA-C-O	6.82	127.00	120.31
23	N	410	LEU	CA-C-N	6.82	129.22	120.70
23	N	410	LEU	C-N-CA	6.82	129.22	120.70
26	Q	191	LEU	CA-C-N	6.82	129.30	120.44
26	Q	191	LEU	C-N-CA	6.82	129.30	120.44
3	3	185	GLU	O-C-N	-6.82	115.85	123.48
24	O	95	SER	CA-C-N	6.81	129.97	120.29
24	O	95	SER	C-N-CA	6.81	129.97	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	D	101	GLU	CA-C-O	6.81	129.43	120.98
7	7	27	ARG	N-CA-C	6.81	118.35	111.07
30	U	89	LEU	CA-C-O	6.81	128.45	120.69
32	W	124	GLU	CA-C-N	6.80	129.40	120.28
32	W	124	GLU	C-N-CA	6.80	129.40	120.28
22	M	329	ARG	CA-C-N	6.80	129.68	120.63
22	M	329	ARG	C-N-CA	6.80	129.68	120.63
28	S	449	LEU	N-CA-C	-6.80	102.44	113.19
1	1	188	PHE	N-CA-C	-6.80	97.27	108.76
20	K	190	LEU	CA-C-O	-6.80	111.75	118.34
35	Z	776	VAL	CB-CA-C	-6.80	107.15	114.35
15	F	102	LYS	CA-C-N	6.79	134.51	121.54
15	F	102	LYS	C-N-CA	6.79	134.51	121.54
32	W	191	ILE	N-CA-CB	6.79	122.43	111.23
16	G	63	ASN	CA-C-N	6.79	129.60	120.50
16	G	63	ASN	C-N-CA	6.79	129.60	120.50
26	Q	30	LEU	CA-C-N	6.79	129.26	120.44
26	Q	30	LEU	C-N-CA	6.79	129.26	120.44
35	Z	453	LEU	O-C-N	6.79	129.42	122.09
10	A	72	ILE	O-C-N	6.78	130.30	123.18
23	N	653	ARG	CA-C-N	6.78	129.69	120.54
23	N	653	ARG	C-N-CA	6.78	129.69	120.54
21	L	304	THR	CA-C-N	6.78	129.91	120.29
21	L	304	THR	C-N-CA	6.78	129.91	120.29
4	4	84	ARG	N-CA-C	6.78	118.32	111.07
20	K	317	ALA	O-C-N	-6.78	115.13	123.33
30	U	275	VAL	N-CA-C	6.78	116.92	110.42
23	N	79	VAL	CA-C-O	-6.77	113.99	121.17
12	C	120	GLN	CA-C-N	6.77	127.61	120.03
12	C	120	GLN	C-N-CA	6.77	127.61	120.03
13	D	184	PRO	N-CA-C	-6.77	102.44	110.70
17	H	247	LEU	N-CA-C	-6.76	97.88	108.90
27	R	187	VAL	CA-C-O	-6.76	113.68	120.85
19	J	125	VAL	CA-C-O	6.76	127.65	120.48
31	V	245	VAL	CA-C-O	-6.76	113.92	120.95
23	N	569	LYS	CA-C-N	6.76	129.34	120.28
23	N	569	LYS	C-N-CA	6.76	129.34	120.28
20	K	255	ARG	N-CA-C	-6.76	103.84	111.07
15	F	191	LYS	CA-C-N	6.76	129.33	120.28
15	F	191	LYS	C-N-CA	6.76	129.33	120.28
33	X	100	TRP	CA-C-N	6.75	132.20	121.66
33	X	100	TRP	C-N-CA	6.75	132.20	121.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	T	148	LEU	N-CA-C	6.75	118.29	111.07
25	P	43	GLU	CB-CA-C	6.75	121.99	110.79
27	R	216	ILE	CA-C-N	6.74	129.31	120.28
27	R	216	ILE	C-N-CA	6.74	129.31	120.28
1	1	80	SER	CA-C-O	-6.74	113.28	120.42
23	N	888	ASP	CA-C-N	6.74	130.55	120.17
23	N	888	ASP	C-N-CA	6.74	130.55	120.17
35	Z	107	THR	N-CA-C	-6.74	106.94	114.62
26	Q	197	SER	CA-C-N	6.74	129.85	120.29
26	Q	197	SER	C-N-CA	6.74	129.85	120.29
18	I	217	LYS	CA-C-O	6.73	127.89	120.82
28	S	378	GLN	CA-C-N	6.73	129.30	120.28
28	S	378	GLN	C-N-CA	6.73	129.30	120.28
30	U	272	GLU	CA-C-N	6.73	129.30	120.28
30	U	272	GLU	C-N-CA	6.73	129.30	120.28
33	X	120	GLU	CA-C-O	-6.73	113.75	120.82
4	4	136	GLY	CA-C-O	-6.73	113.13	120.40
31	V	279	HIS	CB-CG-CD2	-6.73	122.45	131.20
3	3	182	LYS	CA-C-N	6.73	130.54	120.31
3	3	182	LYS	C-N-CA	6.73	130.54	120.31
22	M	199	LEU	CA-C-N	6.73	126.52	119.05
22	M	199	LEU	C-N-CA	6.73	126.52	119.05
7	7	31	VAL	CA-C-N	6.72	130.30	120.82
7	7	31	VAL	C-N-CA	6.72	130.30	120.82
25	P	35	ALA	N-CA-C	6.72	118.26	111.07
34	Y	76	GLU	CA-C-N	6.72	129.61	120.54
34	Y	76	GLU	C-N-CA	6.72	129.61	120.54
7	7	164	VAL	CA-C-N	6.72	129.18	120.44
7	7	164	VAL	C-N-CA	6.72	129.18	120.44
24	O	173	SER	CA-C-O	6.72	127.54	120.42
26	Q	274	LEU	N-CA-C	-6.72	99.06	108.54
26	Q	52	ASN	CA-C-N	6.71	129.28	120.28
26	Q	52	ASN	C-N-CA	6.71	129.28	120.28
18	I	343	ARG	N-CA-C	-6.71	96.51	110.80
25	P	46	THR	CA-C-N	6.71	134.35	121.54
25	P	46	THR	C-N-CA	6.71	134.35	121.54
35	Z	976	HIS	CA-C-N	6.71	129.48	120.50
35	Z	976	HIS	C-N-CA	6.71	129.48	120.50
26	Q	111	LEU	N-CA-C	-6.70	104.05	111.36
27	R	259	PHE	N-CA-C	6.70	118.24	111.07
3	3	151	PRO	CA-C-N	6.70	129.26	120.28
3	3	151	PRO	C-N-CA	6.70	129.26	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	A	228	ALA	N-CA-C	-6.70	98.48	109.40
11	B	101	TYR	N-CA-C	-6.70	104.33	113.30
19	J	55	VAL	CA-C-N	6.70	129.26	120.28
19	J	55	VAL	C-N-CA	6.70	129.26	120.28
27	R	202	GLY	CA-C-N	6.70	134.33	121.54
27	R	202	GLY	C-N-CA	6.70	134.33	121.54
28	S	316	LEU	CA-C-N	6.70	129.26	120.28
28	S	316	LEU	C-N-CA	6.70	129.26	120.28
16	G	152	PRO	CA-C-N	6.70	129.80	120.29
16	G	152	PRO	C-N-CA	6.70	129.80	120.29
26	Q	424	ASP	N-CA-C	6.70	118.23	111.07
35	Z	404	ASP	CA-C-N	6.70	129.80	120.29
35	Z	404	ASP	C-N-CA	6.70	129.80	120.29
15	F	35	THR	N-CA-C	-6.69	97.30	108.75
21	L	95	ILE	N-CA-C	6.69	117.45	110.62
33	X	61	LEU	CB-CA-C	-6.69	108.84	116.54
27	R	157	SER	N-CA-C	6.69	118.58	111.28
21	L	145	ARG	CA-C-N	6.69	133.25	122.68
21	L	145	ARG	C-N-CA	6.69	133.25	122.68
11	B	85	LEU	CA-C-O	6.69	127.51	120.42
30	U	79	MET	CA-C-N	6.69	129.13	120.44
30	U	79	MET	C-N-CA	6.69	129.13	120.44
1	1	173	ILE	N-CA-C	-6.69	98.81	108.17
23	N	337	GLY	CA-C-N	6.69	129.13	120.44
23	N	337	GLY	C-N-CA	6.69	129.13	120.44
23	N	618	ARG	CA-C-O	6.68	127.65	120.10
11	B	177	LYS	CA-C-N	6.68	131.88	120.72
11	B	177	LYS	C-N-CA	6.68	131.88	120.72
35	Z	434	GLN	N-CA-C	6.68	118.56	111.28
10	A	211	ILE	N-CA-C	-6.68	104.25	110.53
23	N	17	GLN	CA-C-N	6.68	129.12	120.44
23	N	17	GLN	C-N-CA	6.68	129.12	120.44
2	2	170	GLY	N-CA-C	-6.67	100.71	111.59
28	S	321	GLN	CA-C-N	6.67	129.22	120.28
28	S	321	GLN	C-N-CA	6.67	129.22	120.28
11	B	32	VAL	CA-C-O	6.67	128.46	120.85
26	Q	321	TYR	O-C-N	6.67	132.17	122.43
19	J	311	ASP	O-C-N	-6.67	115.03	122.10
13	D	197	ARG	CA-C-O	-6.67	113.82	120.82
26	Q	337	ALA	CA-C-N	6.67	129.21	120.28
26	Q	337	ALA	C-N-CA	6.67	129.21	120.28
16	G	100	LYS	O-C-N	-6.67	115.20	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1	72	THR	N-CA-C	6.66	117.26	109.60
28	S	254	ILE	O-C-N	6.66	128.44	121.91
10	A	163	TYR	O-C-N	-6.66	116.30	123.42
22	M	265	ASP	CA-C-N	6.66	129.74	120.29
22	M	265	ASP	C-N-CA	6.66	129.74	120.29
27	R	25	GLU	CA-C-N	6.65	129.57	120.46
27	R	25	GLU	C-N-CA	6.65	129.57	120.46
28	S	396	SER	CA-C-N	6.65	129.52	120.54
28	S	396	SER	C-N-CA	6.65	129.52	120.54
22	M	356	SER	CA-C-N	6.65	129.09	120.44
22	M	356	SER	C-N-CA	6.65	129.09	120.44
33	X	57	VAL	O-C-N	-6.65	116.27	123.18
21	L	342	ARG	CA-C-N	6.65	133.64	121.94
21	L	342	ARG	C-N-CA	6.65	133.64	121.94
24	O	163	ILE	CB-CA-C	-6.65	107.31	114.35
28	S	188	TYR	N-CA-C	6.64	119.53	111.82
28	S	310	LEU	CA-C-N	6.64	129.18	120.28
28	S	310	LEU	C-N-CA	6.64	129.18	120.28
23	N	232	LEU	N-CA-C	-6.64	105.14	113.18
33	X	51	ARG	CA-C-N	-6.64	112.14	120.51
33	X	51	ARG	C-N-CA	-6.64	112.14	120.51
26	Q	336	ASN	CA-C-N	6.64	129.72	120.29
26	Q	336	ASN	C-N-CA	6.64	129.72	120.29
18	I	187	LEU	CA-C-N	6.64	130.78	120.82
18	I	187	LEU	C-N-CA	6.64	130.78	120.82
35	Z	814	ALA	CA-C-O	-6.63	113.85	120.82
28	S	352	VAL	CA-C-O	-6.63	113.69	121.05
35	Z	796	LEU	CA-C-O	-6.63	112.34	119.97
13	D	153	SER	CA-C-N	6.63	134.40	121.41
13	D	153	SER	C-N-CA	6.63	134.40	121.41
23	N	158	LEU	O-C-N	6.62	128.89	122.07
35	Z	586	GLU	CA-C-N	6.62	129.05	120.44
35	Z	586	GLU	C-N-CA	6.62	129.05	120.44
16	G	206	ASN	N-CA-C	-6.62	97.56	108.48
29	T	142	LEU	CA-C-N	6.62	129.15	120.28
29	T	142	LEU	C-N-CA	6.62	129.15	120.28
14	E	174	SER	CA-C-O	-6.62	113.87	120.82
20	K	290	ARG	N-CA-C	-6.62	104.23	112.90
22	M	392	LYS	O-C-N	-6.62	115.11	122.12
23	N	522	ALA	CA-C-N	6.61	129.14	120.28
23	N	522	ALA	C-N-CA	6.61	129.14	120.28
1	1	146	MET	CA-C-O	-6.61	114.54	121.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	Z	775	MET	CA-C-N	6.61	124.40	120.24
35	Z	775	MET	C-N-CA	6.61	124.40	120.24
27	R	384	VAL	N-CA-C	-6.61	105.09	113.22
32	W	110	ILE	O-C-N	6.60	129.96	123.03
22	M	432	PHE	CA-C-N	6.60	134.15	121.54
22	M	432	PHE	C-N-CA	6.60	134.15	121.54
29	T	232	LYS	O-C-N	-6.60	115.87	123.33
23	N	289	ILE	N-CA-C	6.60	117.29	110.36
3	3	59	ARG	CA-C-O	-6.60	113.91	120.70
17	H	404	TRP	CA-C-N	6.60	129.42	120.38
17	H	404	TRP	C-N-CA	6.60	129.42	120.38
22	M	186	LEU	CA-C-N	6.60	129.45	120.54
22	M	186	LEU	C-N-CA	6.60	129.45	120.54
35	Z	929	VAL	N-CA-C	-6.60	97.95	108.90
5	5	116	ASP	CA-C-N	6.59	129.12	120.28
5	5	116	ASP	C-N-CA	6.59	129.12	120.28
29	T	46	ILE	CA-C-O	-6.59	114.11	121.36
21	L	389	ALA	CA-C-N	6.59	129.65	120.29
21	L	389	ALA	C-N-CA	6.59	129.65	120.29
30	U	152	LYS	CA-C-N	6.59	129.11	120.28
30	U	152	LYS	C-N-CA	6.59	129.11	120.28
29	T	35	ILE	CA-C-N	6.59	129.11	120.28
29	T	35	ILE	C-N-CA	6.59	129.11	120.28
18	I	171	MET	O-C-N	-6.59	115.34	123.44
18	I	253	ILE	O-C-N	-6.59	114.34	122.57
3	3	162	LEU	O-C-N	6.58	129.20	122.09
18	I	331	ILE	O-C-N	-6.58	116.17	122.09
27	R	178	GLY	CA-C-N	6.58	129.64	120.29
27	R	178	GLY	C-N-CA	6.58	129.64	120.29
5	5	164	ALA	N-CA-C	6.58	118.53	111.36
24	O	129	ILE	CA-C-N	6.58	129.34	120.65
24	O	129	ILE	C-N-CA	6.58	129.34	120.65
29	T	121	LYS	CA-C-N	6.58	129.00	120.44
29	T	121	LYS	C-N-CA	6.58	129.00	120.44
17	H	453	GLY	CA-C-N	6.58	129.63	120.29
17	H	453	GLY	C-N-CA	6.58	129.63	120.29
13	D	172	ARG	CA-C-N	6.58	128.99	120.44
13	D	172	ARG	C-N-CA	6.58	128.99	120.44
22	M	248	ALA	CA-C-N	6.57	126.27	119.56
22	M	248	ALA	C-N-CA	6.57	126.27	119.56
26	Q	428	GLU	N-CA-C	-6.57	104.04	111.07
25	P	389	ILE	N-CA-C	-6.57	98.83	108.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	J	296	ARG	O-C-N	-6.57	115.25	123.27
27	R	42	GLN	O-C-N	6.57	128.84	122.07
17	H	397	SER	CA-C-O	-6.57	114.64	121.87
18	I	325	ILE	N-CA-C	-6.57	98.91	108.11
19	J	317	PRO	N-CA-C	6.57	118.71	110.70
25	P	404	LYS	N-CA-C	-6.57	102.23	108.07
18	I	417	LYS	CA-C-O	-6.56	113.59	120.55
10	A	49	ASP	N-CA-C	-6.56	102.43	112.99
22	M	351	LEU	O-C-N	6.56	127.10	121.20
26	Q	414	GLU	CA-C-N	6.56	129.40	120.54
26	Q	414	GLU	C-N-CA	6.56	129.40	120.54
29	T	9	LYS	CA-C-O	-6.56	113.93	120.82
17	H	313	ALA	N-CA-C	6.56	118.09	111.07
27	R	228	ALA	CA-C-N	6.56	129.36	120.38
27	R	228	ALA	C-N-CA	6.56	129.36	120.38
12	C	189	ALA	N-CA-C	6.55	118.42	111.28
23	N	483	LEU	CA-C-N	6.54	127.36	120.03
23	N	483	LEU	C-N-CA	6.54	127.36	120.03
22	M	310	ASN	CA-C-N	6.54	129.05	120.28
22	M	310	ASN	C-N-CA	6.54	129.05	120.28
23	N	585	ARG	CA-C-N	6.54	129.70	120.28
23	N	585	ARG	C-N-CA	6.54	129.70	120.28
29	T	62	LEU	N-CA-C	6.54	118.41	111.28
18	I	82	LEU	O-C-N	6.54	129.05	122.12
30	U	292	ILE	CA-C-O	-6.54	114.24	121.17
19	J	256	THR	N-CA-C	-6.54	96.88	110.80
20	K	194	GLN	CA-C-N	6.54	129.57	120.29
20	K	194	GLN	C-N-CA	6.54	129.57	120.29
26	Q	400	TYR	N-CA-C	-6.53	105.32	113.55
22	M	392	LYS	CA-C-N	6.53	130.24	120.31
22	M	392	LYS	C-N-CA	6.53	130.24	120.31
14	E	240	ILE	CA-C-N	6.53	128.93	120.44
14	E	240	ILE	C-N-CA	6.53	128.93	120.44
18	I	331	ILE	CA-C-O	6.53	127.01	119.89
17	H	383	GLU	CA-C-N	6.53	127.18	120.00
17	H	383	GLU	C-N-CA	6.53	127.18	120.00
24	O	148	ASP	N-CA-C	6.53	118.48	111.36
16	G	160	LYS	CA-C-O	6.53	127.49	119.79
26	Q	29	SER	O-C-N	-6.53	114.24	122.27
26	Q	416	VAL	CA-C-N	6.53	127.18	119.94
26	Q	416	VAL	C-N-CA	6.53	127.18	119.94
4	4	19	ALA	CA-C-N	6.52	132.24	122.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	4	19	ALA	C-N-CA	6.52	132.24	122.98
17	H	334	LEU	CA-C-N	6.52	128.92	120.44
17	H	334	LEU	C-N-CA	6.52	128.92	120.44
15	F	82	ARG	N-CA-C	6.52	118.46	111.36
18	I	80	GLU	O-C-N	6.52	129.03	122.12
22	M	119	VAL	CA-C-O	6.51	128.29	120.67
16	G	165	GLY	CA-C-N	6.51	129.01	120.28
16	G	165	GLY	C-N-CA	6.51	129.01	120.28
25	P	293	LEU	CA-C-O	6.51	127.66	120.82
29	T	149	ASP	CA-C-N	6.51	128.91	120.44
29	T	149	ASP	C-N-CA	6.51	128.91	120.44
22	M	207	PHE	O-C-N	-6.51	115.22	122.12
22	M	397	GLU	CA-C-N	6.51	129.00	120.28
22	M	397	GLU	C-N-CA	6.51	129.00	120.28
35	Z	825	ALA	CA-C-N	6.51	129.66	120.28
35	Z	825	ALA	C-N-CA	6.51	129.66	120.28
15	F	114	ASP	CA-C-O	-6.51	113.65	120.55
28	S	164	ILE	CA-C-O	-6.51	111.23	119.95
6	6	181	SER	CA-C-N	6.50	128.99	120.28
6	6	181	SER	C-N-CA	6.50	128.99	120.28
22	M	296	SER	N-CA-C	6.50	122.10	111.37
32	W	86	HIS	ND1-CG-CD2	6.50	112.60	106.10
17	H	218	ILE	CA-C-N	6.50	129.52	120.29
17	H	218	ILE	C-N-CA	6.50	129.52	120.29
24	O	248	TYR	CA-C-N	6.50	129.87	120.38
24	O	248	TYR	C-N-CA	6.50	129.87	120.38
6	6	23	ASP	CB-CA-C	-6.50	109.07	116.54
27	R	406	GLN	CA-C-N	6.50	128.26	120.14
27	R	406	GLN	C-N-CA	6.50	128.26	120.14
35	Z	502	ASN	CA-C-N	6.50	130.19	120.31
35	Z	502	ASN	C-N-CA	6.50	130.19	120.31
14	E	140	VAL	N-CA-C	-6.50	99.13	108.42
27	R	259	PHE	O-C-N	6.50	128.76	122.07
30	U	295	LYS	CA-C-N	6.49	128.74	120.56
30	U	295	LYS	C-N-CA	6.49	128.74	120.56
20	K	189	GLU	N-CA-C	6.49	118.15	111.14
4	4	48	GLU	O-C-N	-6.49	115.63	123.16
26	Q	344	GLU	N-CA-C	6.49	118.43	111.36
28	S	247	VAL	CA-C-N	6.49	131.40	120.88
28	S	247	VAL	C-N-CA	6.49	131.40	120.88
7	7	168	ALA	CA-C-O	-6.49	113.67	120.55
10	A	188	LYS	N-CA-C	6.49	118.01	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	B	114	VAL	CA-C-N	6.49	128.97	120.28
11	B	114	VAL	C-N-CA	6.49	128.97	120.28
12	C	234	GLU	N-CA-C	-6.49	105.18	113.23
23	N	201	LYS	CA-C-N	6.49	129.45	120.63
23	N	201	LYS	C-N-CA	6.49	129.45	120.63
25	P	380	ILE	N-CA-C	6.49	117.24	110.62
21	L	367	LYS	N-CA-C	-6.49	105.33	113.18
16	G	18	GLY	N-CA-C	-6.49	106.29	115.43
11	B	149	GLN	CA-C-N	6.48	131.63	123.14
11	B	149	GLN	C-N-CA	6.48	131.63	123.14
19	J	67	GLU	CA-C-N	6.48	128.88	121.04
19	J	67	GLU	C-N-CA	6.48	128.88	121.04
32	W	86	HIS	CB-CG-CD2	-6.48	122.77	131.20
32	W	111	VAL	CA-CB-CG2	6.48	121.42	110.40
23	N	202	PHE	CA-C-N	6.48	129.29	120.54
23	N	202	PHE	C-N-CA	6.48	129.29	120.54
26	Q	430	ALA	CA-C-O	6.48	127.83	120.90
19	J	276	LEU	N-CA-C	6.48	119.16	111.71
23	N	872	THR	CA-C-N	6.48	131.11	121.72
23	N	872	THR	C-N-CA	6.48	131.11	121.72
19	J	274	GLU	CA-C-N	6.48	128.96	120.28
19	J	274	GLU	C-N-CA	6.48	128.96	120.28
22	M	259	GLY	CA-C-N	6.48	128.96	120.28
22	M	259	GLY	C-N-CA	6.48	128.96	120.28
28	S	211	ARG	O-C-N	6.47	128.98	122.12
29	T	114	LEU	CA-C-O	6.47	127.28	120.42
35	Z	828	ALA	O-C-N	6.47	128.82	122.09
11	B	31	GLY	CA-C-O	-6.47	115.81	122.28
16	G	81	ILE	CA-C-N	6.47	126.24	119.05
16	G	81	ILE	C-N-CA	6.47	126.24	119.05
25	P	164	GLN	O-C-N	6.47	130.23	122.27
15	F	66	CYS	CA-C-O	-6.47	112.10	119.41
6	6	48	PHE	CA-C-N	6.47	128.95	120.28
6	6	48	PHE	C-N-CA	6.47	128.95	120.28
29	T	108	LEU	CA-C-O	-6.47	113.69	120.55
26	Q	305	ALA	N-CA-C	-6.47	104.23	111.28
29	T	155	GLY	N-CA-C	-6.47	101.83	112.83
32	W	33	VAL	N-CA-C	6.47	117.25	110.72
1	1	33	LYS	CA-C-N	6.47	131.25	122.84
1	1	33	LYS	C-N-CA	6.47	131.25	122.84
26	Q	83	GLU	CA-C-N	6.47	128.85	120.44
26	Q	83	GLU	C-N-CA	6.47	128.85	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	K	396	ARG	CA-C-O	-6.46	113.57	120.42
28	S	339	GLN	CA-C-N	6.46	128.94	120.28
28	S	339	GLN	C-N-CA	6.46	128.94	120.28
4	4	59	ILE	CA-C-N	6.46	128.84	120.44
4	4	59	ILE	C-N-CA	6.46	128.84	120.44
1	1	162	ALA	CA-C-O	-6.46	113.70	120.55
11	B	222	LEU	N-CA-C	-6.46	105.22	113.23
23	N	422	TYR	N-CA-C	-6.46	104.16	111.07
11	B	168	SER	N-CA-C	6.46	118.11	111.14
7	7	156	ASP	N-CA-C	-6.45	105.41	113.28
29	T	27	LEU	O-C-N	-6.45	114.74	120.48
2	2	144	GLN	CA-C-N	6.45	133.86	121.54
2	2	144	GLN	C-N-CA	6.45	133.86	121.54
10	A	62	LYS	N-CA-C	-6.45	105.16	113.16
18	I	373	GLU	N-CA-C	-6.45	104.99	112.92
33	X	32	GLU	N-CA-C	-6.45	98.87	108.99
7	7	194	LYS	O-C-N	6.45	130.20	122.27
17	H	414	SER	N-CA-C	-6.45	99.84	108.74
17	H	431	ILE	O-C-N	-6.45	115.62	121.87
19	J	239	GLU	CA-C-O	6.45	127.25	120.42
14	E	41	ALA	CA-C-O	6.44	127.54	120.71
19	J	131	ASP	CA-C-O	-6.44	111.33	120.16
27	R	361	VAL	N-CA-C	-6.44	104.05	110.62
7	7	169	ILE	N-CA-C	6.44	117.19	110.62
35	Z	77	ASN	CA-C-N	6.44	128.81	120.44
35	Z	77	ASN	C-N-CA	6.44	128.81	120.44
27	R	164	THR	CA-C-N	6.44	127.26	119.99
27	R	164	THR	C-N-CA	6.44	127.26	119.99
23	N	343	THR	CA-C-N	6.43	131.73	122.40
23	N	343	THR	C-N-CA	6.43	131.73	122.40
27	R	102	LEU	CA-C-N	6.43	130.09	120.31
27	R	102	LEU	C-N-CA	6.43	130.09	120.31
27	R	273	SER	O-C-N	-6.43	116.81	121.83
26	Q	352	GLU	CA-C-N	6.43	126.77	119.83
26	Q	352	GLU	C-N-CA	6.43	126.77	119.83
30	U	264	ALA	CA-C-N	6.43	130.08	120.31
30	U	264	ALA	C-N-CA	6.43	130.08	120.31
23	N	130	ASP	CA-C-N	6.43	126.18	119.05
23	N	130	ASP	C-N-CA	6.43	126.18	119.05
15	F	116	ALA	CA-C-O	-6.42	112.58	119.97
29	T	126	LEU	N-CA-C	6.42	118.28	111.28
35	Z	794	ASP	CA-C-N	6.42	129.41	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	Z	794	ASP	C-N-CA	6.42	129.41	120.29
1	1	176	VAL	CA-C-N	6.42	130.40	122.37
1	1	176	VAL	C-N-CA	6.42	130.40	122.37
25	P	246	GLN	CA-C-N	6.42	129.41	120.29
25	P	246	GLN	C-N-CA	6.42	129.41	120.29
15	F	64	ILE	CA-C-O	6.42	126.75	120.27
22	M	134	LEU	CA-C-N	6.42	132.09	122.98
22	M	134	LEU	C-N-CA	6.42	132.09	122.98
26	Q	173	SER	CA-C-N	6.42	128.88	120.28
26	Q	173	SER	C-N-CA	6.42	128.88	120.28
2	2	110	LEU	N-CA-C	-6.41	97.10	108.13
11	B	63	LYS	N-CA-C	-6.41	106.42	114.56
12	C	143	ARG	N-CA-C	-6.41	104.50	112.90
20	K	137	VAL	CA-C-N	6.41	131.85	123.00
20	K	137	VAL	C-N-CA	6.41	131.85	123.00
35	Z	827	LEU	CA-C-N	6.41	129.20	120.54
35	Z	827	LEU	C-N-CA	6.41	129.20	120.54
3	3	170	ALA	N-CA-C	-6.41	104.15	114.09
20	K	425	ASP	CA-C-O	6.41	126.33	119.34
21	L	163	THR	O-C-N	6.41	128.94	122.08
25	P	333	ALA	CA-C-N	6.41	128.87	120.28
25	P	333	ALA	C-N-CA	6.41	128.87	120.28
32	W	53	SER	CA-C-N	6.41	133.97	121.41
32	W	53	SER	C-N-CA	6.41	133.97	121.41
13	D	42	VAL	N-CA-C	-6.41	98.81	108.17
23	N	384	LYS	N-CA-C	6.41	118.26	111.28
3	3	187	VAL	O-C-N	-6.40	116.61	123.14
18	I	425	LYS	CA-C-O	-6.40	114.10	120.82
21	L	373	GLU	N-CA-C	-6.40	101.01	110.48
17	H	338	THR	CA-C-N	6.40	128.85	120.28
17	H	338	THR	C-N-CA	6.40	128.85	120.28
28	S	295	ALA	CA-C-N	6.40	129.15	120.38
28	S	295	ALA	C-N-CA	6.40	129.15	120.38
12	C	189	ALA	O-C-N	6.40	128.90	122.12
18	I	216	PRO	O-C-N	6.40	130.37	123.01
30	U	285	ILE	CA-C-N	6.39	129.22	120.46
30	U	285	ILE	C-N-CA	6.39	129.22	120.46
26	Q	121	SER	CA-C-N	6.39	128.74	120.56
26	Q	121	SER	C-N-CA	6.39	128.74	120.56
16	G	120	GLN	O-C-N	6.39	130.12	122.27
17	H	304	CYS	N-CA-C	-6.39	98.81	108.52
20	K	386	ILE	N-CA-C	6.39	117.17	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	I	158	GLY	N-CA-C	-6.38	99.96	110.56
20	K	76	LYS	N-CA-C	-6.38	104.40	111.36
25	P	96	MET	CA-C-N	6.38	129.21	120.46
25	P	96	MET	C-N-CA	6.38	129.21	120.46
19	J	384	LEU	CA-C-N	6.38	128.74	120.44
19	J	384	LEU	C-N-CA	6.38	128.74	120.44
30	U	167	GLU	N-CA-C	6.38	118.24	111.28
22	M	185	GLY	CA-C-N	6.38	133.00	122.73
22	M	185	GLY	C-N-CA	6.38	133.00	122.73
4	4	139	THR	CA-C-N	6.38	128.83	120.28
4	4	139	THR	C-N-CA	6.38	128.83	120.28
19	J	198	LEU	CA-C-N	6.38	128.73	120.44
19	J	198	LEU	C-N-CA	6.38	128.73	120.44
7	7	176	LEU	CA-C-O	-6.38	113.79	120.55
16	G	88	VAL	CA-C-N	6.38	128.82	120.28
16	G	88	VAL	C-N-CA	6.38	128.82	120.28
31	V	150	LYS	CA-C-N	6.38	129.77	120.91
31	V	150	LYS	C-N-CA	6.38	129.77	120.91
13	D	152	PRO	N-CA-C	-6.38	106.38	114.35
4	4	8	VAL	CA-C-N	6.37	129.11	120.38
4	4	8	VAL	C-N-CA	6.37	129.11	120.38
20	K	282	PHE	O-C-N	-6.37	114.68	122.20
2	2	222	ASP	N-CA-C	-6.37	104.20	112.23
23	N	292	GLY	N-CA-C	-6.37	107.11	114.69
7	7	89	ALA	N-CA-C	6.37	119.03	111.71
14	E	37	ALA	N-CA-C	-6.37	97.42	108.69
33	X	92	SER	CA-C-N	6.37	131.72	122.36
33	X	92	SER	C-N-CA	6.37	131.72	122.36
23	N	396	SER	O-C-N	6.37	128.68	121.93
35	Z	804	ASP	CA-C-N	6.37	128.72	120.44
35	Z	804	ASP	C-N-CA	6.37	128.72	120.44
14	E	198	LEU	O-C-N	6.37	128.63	122.07
32	W	7	VAL	O-C-N	6.37	130.10	123.04
1	1	78	ALA	N-CA-C	6.36	118.22	111.28
20	K	86	VAL	CA-C-O	-6.36	114.33	120.95
22	M	327	THR	CA-C-N	6.36	128.71	120.44
22	M	327	THR	C-N-CA	6.36	128.71	120.44
25	P	400	VAL	N-CA-C	-6.36	98.46	107.75
3	3	162	LEU	CA-C-O	-6.36	114.15	120.70
14	E	239	LEU	CA-C-N	6.36	129.45	120.42
14	E	239	LEU	C-N-CA	6.36	129.45	120.42
16	G	175	LEU	CA-C-O	-6.36	114.14	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	L	289	ARG	CA-C-N	6.36	133.68	121.54
21	L	289	ARG	C-N-CA	6.36	133.68	121.54
27	R	373	PRO	CA-C-O	-6.36	109.03	120.60
4	4	148	ARG	O-C-N	-6.36	117.40	121.85
18	I	266	GLN	CA-C-N	6.36	128.57	120.56
18	I	266	GLN	C-N-CA	6.36	128.57	120.56
18	I	398	GLU	CA-C-N	6.36	128.79	120.28
18	I	398	GLU	C-N-CA	6.36	128.79	120.28
19	J	84	VAL	CA-C-N	6.36	131.22	122.77
19	J	84	VAL	C-N-CA	6.36	131.22	122.77
19	J	247	MET	CA-C-N	6.36	131.15	122.19
19	J	247	MET	C-N-CA	6.36	131.15	122.19
35	Z	783	VAL	N-CA-C	-6.36	104.14	110.62
18	I	419	ALA	CA-C-N	6.35	128.79	120.28
18	I	419	ALA	C-N-CA	6.35	128.79	120.28
25	P	309	MET	N-CA-C	-6.35	104.08	113.61
18	I	282	ASP	CA-C-O	-6.35	113.37	120.54
14	E	186	GLU	CA-C-N	6.35	130.58	121.50
14	E	186	GLU	C-N-CA	6.35	130.58	121.50
20	K	61	LEU	CA-C-N	6.35	128.69	120.44
20	K	61	LEU	C-N-CA	6.35	128.69	120.44
20	K	397	LYS	CA-C-N	6.34	131.16	122.34
20	K	397	LYS	C-N-CA	6.34	131.16	122.34
22	M	161	SER	CA-C-O	6.34	128.84	121.87
25	P	164	GLN	CA-C-N	6.34	128.68	120.56
25	P	164	GLN	C-N-CA	6.34	128.68	120.56
22	M	239	THR	CA-C-N	6.34	133.65	121.54
22	M	239	THR	C-N-CA	6.34	133.65	121.54
33	X	109	LEU	N-CA-C	-6.34	98.39	109.48
20	K	309	SER	N-CA-C	-6.34	105.86	113.97
11	B	119	GLN	N-CA-C	6.34	118.27	111.36
29	T	227	PRO	O-C-N	6.34	131.11	123.13
32	W	33	VAL	CA-C-O	-6.34	114.13	120.85
4	4	29	ASP	N-CA-C	-6.33	102.79	112.99
27	R	48	GLU	N-CA-C	6.33	118.18	111.28
11	B	59	GLU	CA-C-O	6.33	127.27	120.24
14	E	150	ASP	N-CA-C	-6.33	103.19	113.19
30	U	37	ILE	CA-C-N	6.33	132.47	122.21
30	U	37	ILE	C-N-CA	6.33	132.47	122.21
30	U	269	THR	O-C-N	6.33	128.83	122.12
10	A	90	ALA	N-CA-C	-6.33	104.46	111.36
15	F	109	GLY	CA-C-N	6.33	128.66	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	F	109	GLY	C-N-CA	6.33	128.66	120.44
11	B	124	SER	CA-C-N	6.33	130.72	121.67
11	B	124	SER	C-N-CA	6.33	130.72	121.67
35	Z	833	GLN	CA-C-N	6.33	128.66	120.44
35	Z	833	GLN	C-N-CA	6.33	128.66	120.44
5	5	13	ILE	N-CA-C	-6.32	98.63	107.80
23	N	146	LYS	N-CA-C	-6.32	104.26	112.23
28	S	393	ARG	N-CA-C	6.32	118.17	111.28
16	G	119	VAL	CA-C-O	-6.32	114.15	120.85
1	1	56	ALA	CA-C-N	6.32	129.04	120.38
1	1	56	ALA	C-N-CA	6.32	129.04	120.38
18	I	326	MET	N-CA-C	-6.32	99.90	109.95
16	G	173	ALA	CA-C-N	6.32	129.26	120.29
16	G	173	ALA	C-N-CA	6.32	129.26	120.29
19	J	181	GLN	CA-C-O	-6.32	113.60	120.17
24	O	94	GLU	CA-C-O	-6.31	113.73	120.42
23	N	730	VAL	CA-C-N	6.31	129.43	120.53
23	N	730	VAL	C-N-CA	6.31	129.43	120.53
11	B	91	LYS	O-C-N	6.31	128.91	122.09
11	B	242	GLU	CA-C-N	6.31	129.38	120.42
11	B	242	GLU	C-N-CA	6.31	129.38	120.42
3	3	125	LYS	N-CA-C	-6.31	103.77	112.03
26	Q	262	LEU	N-CA-C	6.31	118.16	111.28
16	G	100	LYS	CA-C-O	6.31	127.44	120.82
18	I	181	TYR	N-CA-C	6.31	118.96	111.71
14	E	77	ALA	N-CA-C	-6.30	99.64	109.72
18	I	355	LEU	O-C-N	6.30	128.56	122.07
23	N	885	ILE	N-CA-C	-6.30	99.29	108.87
9	9	49	GLN	N-CA-C	-6.30	99.38	109.96
26	Q	429	LYS	CA-C-N	6.30	129.04	120.54
26	Q	429	LYS	C-N-CA	6.30	129.04	120.54
30	U	195	LYS	CA-C-N	6.30	128.63	120.44
30	U	195	LYS	C-N-CA	6.30	128.63	120.44
20	K	51	LEU	CA-C-N	6.30	128.72	120.28
20	K	51	LEU	C-N-CA	6.30	128.72	120.28
14	E	213	ASP	N-CA-C	-6.30	100.24	109.18
16	G	142	LYS	CA-C-O	-6.30	111.87	119.49
13	D	183	GLU	O-C-N	-6.29	116.21	121.12
13	D	175	LEU	CA-C-N	6.29	130.67	120.60
13	D	175	LEU	C-N-CA	6.29	130.67	120.60
29	T	126	LEU	CA-C-N	6.29	129.23	120.29
29	T	126	LEU	C-N-CA	6.29	129.23	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	J	154	THR	N-CA-C	6.29	118.94	111.33
20	K	190	LEU	CA-C-N	6.29	125.86	119.19
20	K	190	LEU	C-N-CA	6.29	125.86	119.19
3	3	31	PHE	N-CA-C	-6.29	97.55	107.93
18	I	87	LYS	CA-C-O	-6.29	113.75	120.42
21	L	329	ARG	O-C-N	-6.29	115.47	121.57
26	Q	298	ALA	CA-C-O	6.29	127.21	120.55
2	2	10	ASN	CA-C-O	-6.28	112.21	119.56
12	C	175	LEU	CA-C-N	6.28	128.69	120.28
12	C	175	LEU	C-N-CA	6.28	128.69	120.28
35	Z	389	PHE	N-CA-C	6.28	117.79	111.07
10	A	250	GLU	CA-C-N	6.28	129.21	120.29
10	A	250	GLU	C-N-CA	6.28	129.21	120.29
13	D	13	PRO	N-CA-C	-6.28	105.79	114.27
21	L	81	ILE	O-C-N	-6.28	114.72	122.57
4	4	106	TYR	N-CA-C	-6.28	98.29	108.52
21	L	212	ILE	N-CA-C	-6.28	99.16	108.45
21	L	227	GLY	O-C-N	6.28	129.44	122.47
25	P	412	LEU	CA-C-O	-6.28	114.23	120.82
30	U	87	GLU	N-CA-C	-6.28	97.43	110.80
6	6	123	GLU	N-CA-C	-6.27	99.53	109.07
28	S	156	VAL	N-CA-C	6.27	117.77	110.62
5	5	37	ILE	N-CA-C	6.27	116.75	110.23
5	5	164	ALA	CA-C-O	6.27	127.07	120.42
29	T	125	GLU	CA-C-O	-6.27	113.90	120.55
33	X	42	GLU	O-C-N	6.27	129.76	122.17
33	X	55	LYS	CA-C-N	6.27	127.67	119.84
33	X	55	LYS	C-N-CA	6.27	127.67	119.84
1	1	35	THR	O-C-N	6.26	130.75	123.30
35	Z	621	LEU	CA-C-N	6.26	128.67	120.28
35	Z	621	LEU	C-N-CA	6.26	128.67	120.28
12	C	229	ILE	N-CA-C	-6.26	98.11	107.37
24	O	171	PHE	CA-C-O	-6.26	114.26	120.70
23	N	197	VAL	CA-C-O	-6.25	114.18	120.31
28	S	226	ASP	CA-C-O	-6.25	114.06	121.32
13	D	121	THR	N-CA-C	-6.25	103.77	111.40
24	O	21	SER	CA-C-O	-6.25	111.42	118.55
1	1	101	GLY	O-C-N	6.25	129.29	123.54
26	Q	102	GLU	CA-C-N	6.25	129.16	120.29
26	Q	102	GLU	C-N-CA	6.25	129.16	120.29
10	A	210	MET	CA-C-N	6.25	128.56	120.56
10	A	210	MET	C-N-CA	6.25	128.56	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	P	216	LEU	CA-C-N	6.25	129.16	120.29
25	P	216	LEU	C-N-CA	6.25	129.16	120.29
25	P	292	LYS	CA-C-N	6.25	128.56	120.44
25	P	292	LYS	C-N-CA	6.25	128.56	120.44
18	I	123	PRO	N-CA-C	-6.24	106.69	114.68
4	4	148	ARG	N-CA-C	-6.24	98.12	108.23
23	N	406	TYR	CA-C-N	6.24	128.15	120.22
23	N	406	TYR	C-N-CA	6.24	128.15	120.22
23	N	565	ASN	O-C-N	6.24	129.26	122.15
1	1	140	LYS	O-C-N	-6.24	115.04	122.15
3	3	150	GLU	N-CA-C	-6.24	102.28	110.39
5	5	141	ASP	N-CA-C	6.24	118.08	111.28
30	U	208	VAL	CA-C-N	6.24	128.55	120.44
30	U	208	VAL	C-N-CA	6.24	128.55	120.44
33	X	98	PHE	N-CA-C	-6.24	99.74	109.72
14	E	209	GLU	N-CA-C	-6.24	104.83	112.88
20	K	369	ASP	CA-C-N	6.24	128.54	120.44
20	K	369	ASP	C-N-CA	6.24	128.54	120.44
27	R	286	LEU	O-C-N	6.23	128.57	122.09
13	D	139	ASP	O-C-N	-6.23	114.99	121.60
19	J	45	GLU	N-CA-C	-6.23	104.49	111.28
28	S	140	LEU	CA-C-N	6.23	128.54	120.44
28	S	140	LEU	C-N-CA	6.23	128.54	120.44
35	Z	229	SER	N-CA-C	6.23	118.83	110.35
15	F	208	VAL	N-CA-C	6.23	116.97	110.62
22	M	50	ARG	N-CA-C	-6.23	104.57	111.36
21	L	414	ASP	CA-C-N	6.22	128.62	120.28
21	L	414	ASP	C-N-CA	6.22	128.62	120.28
35	Z	621	LEU	O-C-N	-6.22	115.05	122.15
35	Z	967	THR	CA-C-N	6.22	132.36	122.59
35	Z	967	THR	C-N-CA	6.22	132.36	122.59
35	Z	976	HIS	N-CA-C	-6.22	103.09	111.87
28	S	227	ASN	N-CA-C	-6.22	105.63	112.72
19	J	137	MET	N-CA-C	-6.22	99.67	109.50
23	N	754	THR	O-C-N	-6.22	115.85	121.39
3	3	131	GLY	CA-C-O	-6.22	115.52	122.24
16	G	215	ILE	O-C-N	-6.22	116.14	123.04
22	M	175	LYS	CA-C-N	6.22	127.61	119.84
22	M	175	LYS	C-N-CA	6.22	127.61	119.84
23	N	383	LYS	CA-C-N	6.22	128.61	120.28
23	N	383	LYS	C-N-CA	6.22	128.61	120.28
6	6	29	ARG	N-CA-C	-6.22	104.28	113.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	K	149	ILE	N-CA-C	-6.22	99.51	108.53
21	L	88	TYR	O-C-N	-6.22	115.06	122.15
14	E	19	GLY	O-C-N	6.22	130.78	122.70
20	K	328	LEU	CA-C-O	6.22	127.01	120.42
25	P	41	VAL	N-CA-C	6.22	116.96	110.62
27	R	27	SER	CA-C-N	6.22	128.61	120.28
27	R	27	SER	C-N-CA	6.22	128.61	120.28
4	4	55	PHE	CA-C-N	6.21	128.51	120.44
4	4	55	PHE	C-N-CA	6.21	128.51	120.44
29	T	23	CYS	CA-C-O	-6.21	113.97	120.55
5	5	156	LEU	N-CA-C	6.21	118.05	111.28
31	V	35	LEU	N-CA-C	6.21	118.84	111.33
14	E	12	VAL	CA-C-N	6.21	130.59	120.23
14	E	12	VAL	C-N-CA	6.21	130.59	120.23
15	F	90	GLN	CA-C-N	6.20	128.59	120.28
15	F	90	GLN	C-N-CA	6.20	128.59	120.28
31	V	101	ASP	N-CA-C	6.20	119.34	110.10
4	4	67	SER	N-CA-C	6.20	118.83	111.33
23	N	69	TYR	CA-C-N	6.20	128.91	120.54
23	N	69	TYR	C-N-CA	6.20	128.91	120.54
35	Z	175	ASP	CA-C-N	6.20	128.88	120.38
35	Z	175	ASP	C-N-CA	6.20	128.88	120.38
10	A	51	THR	N-CA-C	-6.20	97.72	108.69
12	C	71	ASP	N-CA-C	-6.20	105.30	112.92
31	V	293	VAL	N-CA-C	6.20	116.98	110.72
15	F	192	ALA	O-C-N	-6.20	115.55	122.12
28	S	404	LEU	CA-C-O	-6.19	113.98	120.55
2	2	88	PHE	CA-C-N	6.19	128.57	120.28
2	2	88	PHE	C-N-CA	6.19	128.57	120.28
14	E	152	GLY	CA-C-N	6.19	129.55	120.82
14	E	152	GLY	C-N-CA	6.19	129.55	120.82
27	R	32	LEU	O-C-N	6.19	128.68	122.12
27	R	131	ALA	CA-C-O	-6.19	112.85	119.97
21	L	307	GLU	CA-C-N	6.19	128.49	120.44
21	L	307	GLU	C-N-CA	6.19	128.49	120.44
29	T	85	LEU	CA-C-N	6.19	127.83	120.09
29	T	85	LEU	C-N-CA	6.19	127.83	120.09
23	N	780	ASP	CA-C-O	6.19	127.69	119.59
25	P	218	LEU	CA-C-N	6.19	129.08	120.29
25	P	218	LEU	C-N-CA	6.19	129.08	120.29
26	Q	258	ALA	CA-C-N	6.19	128.48	120.44
26	Q	258	ALA	C-N-CA	6.19	128.48	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	H	302	LYS	CA-C-N	6.18	133.35	121.54
17	H	302	LYS	C-N-CA	6.18	133.35	121.54
23	N	336	ASN	CA-C-O	-6.18	114.51	121.00
35	Z	67	SER	O-C-N	6.18	128.77	122.09
17	H	233	GLU	CA-C-N	6.18	128.48	120.44
17	H	233	GLU	C-N-CA	6.18	128.48	120.44
19	J	32	LEU	N-CA-C	6.18	117.68	111.07
32	W	33	VAL	CA-C-N	6.18	129.38	120.79
32	W	33	VAL	C-N-CA	6.18	129.38	120.79
12	C	205	ALA	O-C-N	6.18	130.81	122.59
23	N	612	SER	CA-C-N	6.18	129.61	120.90
23	N	612	SER	C-N-CA	6.18	129.61	120.90
1	1	146	MET	N-CA-C	6.18	118.75	110.35
25	P	313	ILE	CA-C-O	6.17	127.39	120.85
26	Q	120	LYS	N-CA-C	6.17	118.01	111.28
35	Z	49	LEU	CA-C-N	6.17	131.92	122.29
35	Z	49	LEU	C-N-CA	6.17	131.92	122.29
33	X	76	VAL	N-CA-C	-6.17	100.27	107.61
1	1	68	SER	CA-C-O	-6.17	114.01	120.55
23	N	535	LEU	O-C-N	-6.17	114.68	122.27
27	R	73	ASN	CA-C-N	6.17	133.32	121.54
27	R	73	ASN	C-N-CA	6.17	133.32	121.54
15	F	221	PRO	CA-C-O	-6.17	114.33	121.86
3	3	131	GLY	O-C-N	6.17	129.57	123.10
28	S	351	ALA	CA-C-O	6.17	127.29	120.82
35	Z	969	GLU	N-CA-C	-6.17	105.04	113.30
18	I	142	GLU	CA-C-N	6.16	127.54	119.84
18	I	142	GLU	C-N-CA	6.16	127.54	119.84
15	F	30	LYS	N-CA-C	6.16	119.89	112.38
26	Q	49	LYS	CA-C-N	6.16	128.53	120.28
26	Q	49	LYS	C-N-CA	6.16	128.53	120.28
26	Q	146	TYR	CA-C-N	6.16	128.53	120.28
26	Q	146	TYR	C-N-CA	6.16	128.53	120.28
29	T	88	TYR	CA-C-N	6.16	128.45	120.44
29	T	88	TYR	C-N-CA	6.16	128.45	120.44
19	J	276	LEU	CA-C-N	6.16	128.53	120.28
19	J	276	LEU	C-N-CA	6.16	128.53	120.28
17	H	61	ALA	CA-C-O	6.16	126.94	120.42
18	I	96	LEU	N-CA-C	6.16	117.66	111.07
21	L	139	LYS	N-CA-C	-6.16	105.81	113.38
23	N	899	ASN	CA-C-O	-6.16	114.44	121.40
25	P	257	TRP	N-CA-C	6.16	118.07	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	Z	237	VAL	N-CA-C	-6.16	105.72	112.80
21	L	124	GLY	O-C-N	-6.15	115.62	121.77
23	N	187	ASN	N-CA-C	-6.15	104.65	111.36
35	Z	418	ALA	CA-C-O	-6.15	114.36	120.82
14	E	74	ILE	CA-C-N	6.15	127.94	122.47
14	E	74	ILE	C-N-CA	6.15	127.94	122.47
25	P	106	SER	CA-C-N	6.15	129.66	120.31
25	P	106	SER	C-N-CA	6.15	129.66	120.31
26	Q	160	ASP	CA-C-N	6.15	129.02	120.29
26	Q	160	ASP	C-N-CA	6.15	129.02	120.29
30	U	189	ARG	CA-C-N	6.15	128.44	120.44
30	U	189	ARG	C-N-CA	6.15	128.44	120.44
31	V	101	ASP	CA-C-O	-6.15	113.91	120.92
4	4	144	ASP	O-C-N	-6.15	115.61	122.12
23	N	213	PHE	CA-C-N	6.15	129.02	120.29
23	N	213	PHE	C-N-CA	6.15	129.02	120.29
26	Q	113	ASP	CA-C-N	6.15	129.02	120.29
26	Q	113	ASP	C-N-CA	6.15	129.02	120.29
2	2	87	LEU	N-CA-C	6.14	117.98	111.28
5	5	113	TYR	CA-C-O	6.14	126.99	120.36
16	G	8	ASP	CA-C-N	6.14	131.87	122.23
16	G	8	ASP	C-N-CA	6.14	131.87	122.23
23	N	222	TYR	CA-C-N	6.14	128.51	120.28
23	N	222	TYR	C-N-CA	6.14	128.51	120.28
23	N	263	SER	N-CA-C	-6.14	103.31	111.24
26	Q	10	GLU	CA-C-N	6.14	129.01	120.29
26	Q	10	GLU	C-N-CA	6.14	129.01	120.29
29	T	20	TYR	CA-C-N	6.14	128.51	120.28
29	T	20	TYR	C-N-CA	6.14	128.51	120.28
23	N	578	ASP	N-CA-C	-6.14	99.69	109.76
3	3	131	GLY	CA-C-N	6.14	128.79	120.44
3	3	131	GLY	C-N-CA	6.14	128.79	120.44
19	J	281	GLY	CA-C-N	6.14	128.51	120.28
19	J	281	GLY	C-N-CA	6.14	128.51	120.28
31	V	109	HIS	CB-CG-ND1	-6.14	113.49	122.70
2	2	10	ASN	CA-C-N	-6.14	113.02	120.51
2	2	10	ASN	C-N-CA	-6.14	113.02	120.51
29	T	174	PHE	CA-C-N	6.14	128.79	120.38
29	T	174	PHE	C-N-CA	6.14	128.79	120.38
4	4	91	ILE	CA-C-O	-6.13	113.84	120.47
17	H	422	VAL	CB-CA-C	-6.13	103.86	112.14
13	D	106	VAL	CA-C-O	-6.13	114.35	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	I	396	CYS	CA-C-N	6.13	128.99	120.29
18	I	396	CYS	C-N-CA	6.13	128.99	120.29
23	N	126	LYS	O-C-N	6.13	130.24	123.25
23	N	296	CYS	CA-C-N	6.13	128.49	120.28
23	N	296	CYS	C-N-CA	6.13	128.49	120.28
24	O	143	LEU	N-CA-C	6.13	117.96	111.28
4	4	140	PHE	O-C-N	-6.13	115.63	122.12
7	7	151	VAL	CA-C-O	-6.13	114.02	120.76
35	Z	384	SER	O-C-N	-6.13	115.76	122.07
22	M	233	ARG	O-C-N	-6.12	115.63	122.12
27	R	65	TYR	N-CA-C	6.12	117.96	111.28
16	G	127	SER	N-CA-C	-6.12	105.81	113.28
26	Q	153	ASP	N-CA-C	6.12	118.03	111.36
29	T	26	LEU	N-CA-C	6.12	117.95	111.28
28	S	380	CYS	CA-C-N	6.12	128.39	120.56
28	S	380	CYS	C-N-CA	6.12	128.39	120.56
35	Z	810	ASN	CA-C-N	6.12	128.47	120.28
35	Z	810	ASN	C-N-CA	6.12	128.47	120.28
5	5	24	ASN	N-CA-C	-6.11	105.62	114.12
14	E	196	ALA	CA-C-N	6.11	128.39	120.44
14	E	196	ALA	C-N-CA	6.11	128.39	120.44
25	P	341	LEU	CA-C-N	6.11	128.75	120.44
25	P	341	LEU	C-N-CA	6.11	128.75	120.44
31	V	150	LYS	N-CA-C	-6.11	97.78	110.80
22	M	236	ALA	CA-C-N	6.11	128.75	120.44
22	M	236	ALA	C-N-CA	6.11	128.75	120.44
17	H	208	TYR	CA-C-N	6.11	128.47	120.28
17	H	208	TYR	C-N-CA	6.11	128.47	120.28
18	I	357	THR	CA-C-N	6.11	128.46	120.28
18	I	357	THR	C-N-CA	6.11	128.46	120.28
18	I	215	PRO	CA-C-N	6.11	126.42	119.83
18	I	215	PRO	C-N-CA	6.11	126.42	119.83
19	J	307	PRO	O-C-N	-6.11	115.52	122.91
6	6	87	LEU	O-C-N	6.10	128.36	122.07
30	U	288	PHE	CA-C-N	6.10	128.37	120.44
30	U	288	PHE	C-N-CA	6.10	128.37	120.44
23	N	659	ALA	CA-C-N	6.10	128.37	120.44
23	N	659	ALA	C-N-CA	6.10	128.37	120.44
5	5	28	SER	N-CA-C	-6.10	99.42	108.99
12	C	142	ASP	CA-C-N	6.09	132.73	121.52
12	C	142	ASP	C-N-CA	6.09	132.73	121.52
25	P	43	GLU	CA-C-O	-6.09	114.09	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	W	78	ASP	O-C-N	-6.09	115.20	122.15
16	G	53	ILE	N-CA-C	-6.09	99.64	108.17
22	M	199	LEU	O-C-N	-6.09	114.98	120.71
28	S	281	ALA	CA-C-N	6.09	128.80	120.46
28	S	281	ALA	C-N-CA	6.09	128.80	120.46
35	Z	827	LEU	N-CA-C	6.09	119.81	112.38
16	G	193	LYS	CA-C-N	6.09	128.44	120.28
16	G	193	LYS	C-N-CA	6.09	128.44	120.28
20	K	324	LEU	N-CA-C	-6.09	100.07	109.14
26	Q	423	VAL	CA-C-N	6.09	128.35	120.44
26	Q	423	VAL	C-N-CA	6.09	128.35	120.44
14	E	93	ARG	N-CA-C	-6.08	104.57	111.14
26	Q	297	ASP	CA-C-N	6.08	128.43	120.28
26	Q	297	ASP	C-N-CA	6.08	128.43	120.28
32	W	86	HIS	CE1-NE2-CD2	-6.08	102.92	109.00
31	V	255	ILE	CA-C-N	6.08	128.71	120.44
31	V	255	ILE	C-N-CA	6.08	128.71	120.44
31	V	256	GLU	CA-C-N	6.08	128.75	120.54
31	V	256	GLU	C-N-CA	6.08	128.75	120.54
32	W	86	HIS	CA-CB-CG	-6.08	107.72	113.80
1	1	43	CYS	CA-C-N	6.08	131.11	122.72
1	1	43	CYS	C-N-CA	6.08	131.11	122.72
13	D	216	LYS	CA-C-O	-6.08	115.67	121.08
15	F	22	VAL	N-CA-C	-6.08	104.38	111.00
19	J	169	LYS	CA-C-N	6.08	128.56	122.00
19	J	169	LYS	C-N-CA	6.08	128.56	122.00
10	A	18	ILE	CA-C-O	-6.08	115.37	121.45
21	L	306	MET	CA-C-O	-6.08	113.23	120.10
23	N	328	PHE	N-CA-C	6.08	117.90	111.28
11	B	139	HIS	N-CA-C	-6.07	99.45	108.99
14	E	183	LEU	CA-C-N	6.07	128.42	120.28
14	E	183	LEU	C-N-CA	6.07	128.42	120.28
23	N	323	GLY	O-C-N	6.07	129.16	122.96
11	B	110	LEU	CA-C-N	6.07	128.78	120.46
11	B	110	LEU	C-N-CA	6.07	128.78	120.46
23	N	768	ILE	O-C-N	-6.07	115.47	121.12
2	2	126	SER	CA-C-N	6.07	132.25	121.75
2	2	126	SER	C-N-CA	6.07	132.25	121.75
18	I	332	GLU	N-CA-C	-6.07	105.74	113.02
23	N	223	LEU	O-C-N	6.07	128.55	122.12
17	H	170	GLU	CB-CA-C	-6.07	107.88	115.89
23	N	686	ILE	CA-C-N	6.07	128.91	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	N	686	ILE	C-N-CA	6.07	128.91	120.29
28	S	327	ILE	N-CA-C	-6.07	100.39	107.61
35	Z	214	HIS	N-CA-C	6.07	119.94	112.54
26	Q	352	GLU	CA-C-O	-6.07	111.85	120.16
28	S	341	SER	CA-C-N	6.07	128.41	120.28
28	S	341	SER	C-N-CA	6.07	128.41	120.28
16	G	187	SER	O-C-N	6.06	129.73	122.94
25	P	233	GLU	CA-C-N	6.06	129.52	120.31
25	P	233	GLU	C-N-CA	6.06	129.52	120.31
26	Q	190	ASN	CA-C-N	6.06	128.89	120.29
26	Q	190	ASN	C-N-CA	6.06	128.89	120.29
28	S	392	ILE	N-CA-C	-6.06	104.60	110.72
4	4	12	VAL	CA-C-O	6.06	126.75	120.39
23	N	382	GLY	CA-C-N	6.06	128.39	120.28
23	N	382	GLY	C-N-CA	6.06	128.39	120.28
3	3	66	LYS	O-C-N	6.05	128.31	122.07
35	Z	973	TYR	N-CA-C	-6.05	103.43	111.24
18	I	94	LYS	N-CA-C	-6.05	104.37	110.97
27	R	221	VAL	O-C-N	6.05	130.11	121.82
35	Z	848	THR	O-C-N	-6.05	115.25	122.15
29	T	171	ILE	CA-C-O	6.05	127.04	120.57
18	I	362	LEU	CA-C-N	6.05	126.69	119.98
18	I	362	LEU	C-N-CA	6.05	126.69	119.98
28	S	401	LYS	CA-C-O	6.05	127.23	120.70
23	N	232	LEU	CA-C-N	6.04	133.08	121.54
23	N	232	LEU	C-N-CA	6.04	133.08	121.54
20	K	68	ILE	CA-C-O	-6.04	114.67	120.95
20	K	122	ILE	N-CA-C	-6.04	99.84	109.20
25	P	266	TYR	CA-C-N	6.04	128.38	120.28
25	P	266	TYR	C-N-CA	6.04	128.38	120.28
17	H	234	ARG	O-C-N	6.04	128.29	122.07
30	U	269	THR	CA-C-N	6.04	128.37	120.28
30	U	269	THR	C-N-CA	6.04	128.37	120.28
2	2	162	GLY	CA-C-N	6.04	128.17	120.56
2	2	162	GLY	C-N-CA	6.04	128.17	120.56
17	H	289	ARG	CA-C-N	6.04	128.37	120.28
17	H	289	ARG	C-N-CA	6.04	128.37	120.28
18	I	410	GLN	CA-C-O	-6.04	113.98	120.92
27	R	309	LEU	N-CA-C	-6.04	104.78	111.36
4	4	142	LEU	CA-C-N	6.04	128.28	120.44
4	4	142	LEU	C-N-CA	6.04	128.28	120.44
7	7	77	GLU	O-C-N	-6.04	114.56	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	M	390	GLN	CA-C-O	-6.04	114.02	120.42
23	N	27	SER	N-CA-C	-6.04	104.62	111.14
26	Q	164	GLU	O-C-N	6.04	128.52	122.12
13	D	14	ASP	N-CA-C	-6.03	105.96	113.38
23	N	449	GLY	O-C-N	6.03	127.98	122.19
25	P	202	LYS	CA-C-O	-6.03	114.49	120.82
18	I	190	GLN	CA-C-N	6.03	128.72	120.46
18	I	190	GLN	C-N-CA	6.03	128.72	120.46
5	5	203	GLU	N-CA-C	6.03	117.93	111.36
12	C	59	GLN	N-CA-C	-6.03	105.22	113.30
23	N	770	LYS	CA-C-N	6.03	133.06	121.54
23	N	770	LYS	C-N-CA	6.03	133.06	121.54
23	N	861	TYR	N-CA-C	-6.03	99.88	109.23
16	G	119	VAL	O-C-N	6.03	128.04	121.83
13	D	92	GLU	N-CA-C	6.03	118.81	111.82
14	E	48	LEU	CA-C-N	6.03	126.25	121.61
14	E	48	LEU	C-N-CA	6.03	126.25	121.61
23	N	311	ILE	CA-C-O	-6.03	112.29	119.58
21	L	180	PHE	O-C-N	-6.02	114.26	122.33
22	M	430	VAL	N-CA-C	6.02	117.06	108.93
15	F	124	GLY	CA-C-N	6.02	128.88	121.06
15	F	124	GLY	C-N-CA	6.02	128.88	121.06
18	I	265	ARG	CA-C-N	6.02	128.95	120.28
18	I	265	ARG	C-N-CA	6.02	128.95	120.28
27	R	221	VAL	N-CA-C	6.02	119.51	111.44
28	S	217	PHE	N-CA-C	6.02	117.84	111.28
11	B	144	GLY	CA-C-N	6.02	131.62	122.65
11	B	144	GLY	C-N-CA	6.02	131.62	122.65
23	N	532	ALA	N-CA-C	-6.02	105.98	113.38
23	N	449	GLY	CA-C-N	6.01	128.96	120.42
23	N	449	GLY	C-N-CA	6.01	128.96	120.42
23	N	127	ASP	O-C-N	6.01	130.11	123.01
19	J	210	PHE	O-C-N	-6.01	116.22	123.13
20	K	85	GLU	N-CA-C	6.01	117.91	111.36
2	2	52	THR	CA-C-O	6.01	126.79	120.42
22	M	270	ALA	CA-C-N	6.01	128.82	120.29
22	M	270	ALA	C-N-CA	6.01	128.82	120.29
23	N	71	ASN	CA-C-N	6.01	128.82	120.29
23	N	71	ASN	C-N-CA	6.01	128.82	120.29
32	W	187	SER	CA-C-N	6.01	129.22	120.51
32	W	187	SER	C-N-CA	6.01	129.22	120.51
21	L	264	ARG	CA-C-N	6.01	128.33	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	L	264	ARG	C-N-CA	6.01	128.33	120.28
35	Z	547	MET	O-C-N	-6.01	115.30	122.15
17	H	58	ASP	O-C-N	6.00	128.49	122.12
1	1	62	HIS	CA-C-O	-6.00	114.19	120.55
6	6	158	LYS	CA-C-O	6.00	125.81	119.03
13	D	21	GLU	N-CA-C	-6.00	104.82	111.36
30	U	59	ASP	CA-C-N	6.00	128.33	120.28
30	U	59	ASP	C-N-CA	6.00	128.33	120.28
30	U	303	GLU	CA-C-O	-6.00	114.52	120.82
21	L	258	GLU	CA-C-N	6.00	128.81	120.29
21	L	258	GLU	C-N-CA	6.00	128.81	120.29
26	Q	314	PHE	N-CA-C	6.00	117.82	111.28
13	D	191	CYS	CA-C-N	6.00	128.68	120.46
13	D	191	CYS	C-N-CA	6.00	128.68	120.46
18	I	261	PRO	CA-C-N	6.00	128.60	120.44
18	I	261	PRO	C-N-CA	6.00	128.60	120.44
25	P	136	ARG	CA-C-N	6.00	128.32	120.28
25	P	136	ARG	C-N-CA	6.00	128.32	120.28
26	Q	14	LEU	N-CA-C	6.00	118.61	111.71
26	Q	54	GLN	O-C-N	-6.00	115.20	122.22
20	K	166	LYS	CA-C-N	6.00	125.96	119.78
20	K	166	LYS	C-N-CA	6.00	125.96	119.78
21	L	186	LEU	N-CA-C	-6.00	104.61	112.41
23	N	43	LEU	O-C-N	-6.00	114.76	120.70
24	O	336	LEU	CA-C-N	6.00	131.65	122.11
24	O	336	LEU	C-N-CA	6.00	131.65	122.11
14	E	171	ALA	CA-C-N	6.00	131.20	122.69
14	E	171	ALA	C-N-CA	6.00	131.20	122.69
23	N	608	LEU	CA-C-N	6.00	129.43	120.31
23	N	608	LEU	C-N-CA	6.00	129.43	120.31
23	N	663	ILE	N-CA-C	-6.00	104.46	111.00
27	R	150	ALA	CA-C-N	6.00	128.24	120.44
27	R	150	ALA	C-N-CA	6.00	128.24	120.44
19	J	261	SER	N-CA-C	-6.00	100.03	108.96
24	O	133	ILE	CA-C-N	6.00	128.59	120.44
24	O	133	ILE	C-N-CA	6.00	128.59	120.44
12	C	119	LYS	CA-C-N	5.99	128.31	120.28
12	C	119	LYS	C-N-CA	5.99	128.31	120.28
18	I	403	ALA	N-CA-C	5.99	117.81	111.28
19	J	135	SER	N-CA-C	-5.99	102.74	111.30
27	R	362	ALA	CA-C-N	5.99	128.58	120.44
27	R	362	ALA	C-N-CA	5.99	128.58	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	2	172	ASN	CA-C-N	5.99	131.06	123.10
2	2	172	ASN	C-N-CA	5.99	131.06	123.10
20	K	385	ALA	CA-C-N	5.99	128.92	120.42
20	K	385	ALA	C-N-CA	5.99	128.92	120.42
32	W	173	THR	CA-C-O	5.99	126.90	120.32
23	N	602	VAL	CA-C-N	5.98	125.86	119.28
23	N	602	VAL	C-N-CA	5.98	125.86	119.28
5	5	38	ASN	O-C-N	-5.98	114.44	121.32
7	7	-6	GLN	CA-C-N	5.98	125.89	119.85
7	7	-6	GLN	C-N-CA	5.98	125.89	119.85
25	P	242	GLN	CA-C-N	5.98	129.40	120.31
25	P	242	GLN	C-N-CA	5.98	129.40	120.31
25	P	429	ILE	CA-C-O	-5.98	114.83	121.17
28	S	132	ALA	CA-C-N	5.98	128.62	120.54
28	S	132	ALA	C-N-CA	5.98	128.62	120.54
30	U	166	ALA	CA-C-N	5.98	128.30	120.28
30	U	166	ALA	C-N-CA	5.98	128.30	120.28
31	V	30	SER	CA-C-N	5.98	129.10	120.79
31	V	30	SER	C-N-CA	5.98	129.10	120.79
35	Z	917	ASN	CA-C-N	5.98	130.71	120.72
35	Z	917	ASN	C-N-CA	5.98	130.71	120.72
18	I	77	SER	CA-C-N	5.98	128.78	120.29
18	I	77	SER	C-N-CA	5.98	128.78	120.29
26	Q	212	THR	CA-C-N	5.98	128.78	120.29
26	Q	212	THR	C-N-CA	5.98	128.78	120.29
35	Z	217	GLU	CA-C-N	5.98	129.10	120.79
35	Z	217	GLU	C-N-CA	5.98	129.10	120.79
23	N	126	LYS	CA-C-O	-5.98	114.87	121.33
24	O	30	GLU	CA-C-N	5.98	128.61	120.54
24	O	30	GLU	C-N-CA	5.98	128.61	120.54
33	X	13	GLY	O-C-N	-5.98	118.39	123.59
16	G	78	SER	CA-C-O	5.97	127.53	120.66
35	Z	609	THR	N-CA-C	5.97	119.14	110.42
2	2	30	ASN	CA-C-O	5.97	126.95	120.32
6	6	38	GLY	CA-C-N	5.97	132.61	123.47
6	6	38	GLY	C-N-CA	5.97	132.61	123.47
35	Z	399	LEU	CA-C-N	5.97	128.21	120.56
35	Z	399	LEU	C-N-CA	5.97	128.21	120.56
19	J	36	SER	CA-C-N	5.97	128.77	120.29
19	J	36	SER	C-N-CA	5.97	128.77	120.29
11	B	47	THR	N-CA-C	-5.97	99.89	108.60
35	Z	483	THR	CA-C-N	5.97	128.20	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	Z	483	THR	C-N-CA	5.97	128.20	120.44
7	7	8	TYR	CA-C-N	5.97	128.87	120.28
7	7	8	TYR	C-N-CA	5.97	128.87	120.28
35	Z	207	ILE	N-CA-C	5.97	116.71	110.62
21	L	101	ILE	N-CA-C	5.96	119.20	109.78
27	R	42	GLN	CA-C-N	5.96	130.78	120.58
27	R	42	GLN	C-N-CA	5.96	130.78	120.58
13	D	43	VAL	CA-C-N	5.96	131.18	122.77
13	D	43	VAL	C-N-CA	5.96	131.18	122.77
18	I	216	PRO	CA-C-N	5.96	128.19	120.44
18	I	216	PRO	C-N-CA	5.96	128.19	120.44
21	L	170	MET	N-CA-C	-5.96	98.11	110.80
11	B	6	SER	N-CA-C	-5.96	105.58	114.64
17	H	269	ALA	CA-C-N	5.96	129.33	120.87
17	H	269	ALA	C-N-CA	5.96	129.33	120.87
29	T	100	ASP	CA-C-O	5.96	125.69	119.14
16	G	180	ASP	O-C-N	5.96	128.94	122.15
18	I	312	GLN	CA-C-N	5.96	128.18	120.44
18	I	312	GLN	C-N-CA	5.96	128.18	120.44
20	K	71	GLU	CA-C-N	5.96	128.75	120.29
20	K	71	GLU	C-N-CA	5.96	128.75	120.29
23	N	84	ALA	CA-C-N	5.96	128.86	120.28
23	N	84	ALA	C-N-CA	5.96	128.86	120.28
35	Z	772	ILE	N-CA-C	5.96	116.74	110.72
25	P	149	GLU	O-C-N	5.96	128.43	122.12
26	Q	187	LYS	CA-C-N	5.95	130.66	120.72
26	Q	187	LYS	C-N-CA	5.95	130.66	120.72
5	5	133	GLN	N-CA-C	5.95	118.25	111.11
12	C	56	LEU	N-CA-C	-5.95	107.00	114.56
23	N	315	ASN	N-CA-C	-5.95	104.70	111.07
26	Q	345	SER	N-CA-C	5.95	117.77	111.28
28	S	276	LEU	CA-C-N	5.95	128.25	120.28
28	S	276	LEU	C-N-CA	5.95	128.25	120.28
28	S	460	VAL	N-CA-C	5.95	116.13	110.42
29	T	264	MET	CA-C-N	5.95	128.17	120.44
29	T	264	MET	C-N-CA	5.95	128.17	120.44
17	H	52	THR	O-C-N	5.94	128.42	122.12
19	J	311	ASP	N-CA-C	-5.94	107.01	114.56
22	M	163	PHE	N-CA-C	-5.94	98.57	108.32
35	Z	212	LEU	CA-C-O	-5.94	114.25	120.55
23	N	620	GLY	CA-C-O	-5.94	113.98	120.40
30	U	83	ILE	CA-C-O	-5.94	114.45	120.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	Z	507	GLY	CA-C-N	5.94	128.73	120.29
35	Z	507	GLY	C-N-CA	5.94	128.73	120.29
35	Z	844	ALA	CA-C-N	5.94	128.16	120.44
35	Z	844	ALA	C-N-CA	5.94	128.16	120.44
23	N	378	ASN	CA-C-O	-5.94	113.95	120.36
25	P	186	LEU	N-CA-C	5.94	117.83	111.36
35	Z	595	MET	CA-C-N	5.94	128.72	120.29
35	Z	595	MET	C-N-CA	5.94	128.72	120.29
5	5	209	ASN	N-CA-C	-5.94	104.72	111.07
23	N	362	TRP	CA-C-N	5.93	129.33	120.31
23	N	362	TRP	C-N-CA	5.93	129.33	120.31
25	P	107	SER	CA-C-O	-5.93	113.15	119.97
10	A	65	ASP	CA-C-N	-5.93	114.12	121.00
10	A	65	ASP	C-N-CA	-5.93	114.12	121.00
20	K	142	HIS	CA-C-N	5.93	128.51	120.44
20	K	142	HIS	C-N-CA	5.93	128.51	120.44
35	Z	66	ALA	CA-C-N	5.93	128.50	120.44
35	Z	66	ALA	C-N-CA	5.93	128.50	120.44
22	M	237	ALA	CA-C-N	5.93	128.71	120.29
22	M	237	ALA	C-N-CA	5.93	128.71	120.29
12	C	214	ALA	O-C-N	-5.93	116.63	123.33
18	I	319	ARG	N-CA-C	-5.93	106.05	113.28
21	L	178	ILE	N-CA-C	-5.93	100.53	108.35
5	5	42	LEU	CA-C-N	5.92	127.09	121.46
5	5	42	LEU	C-N-CA	5.92	127.09	121.46
27	R	56	GLU	CA-C-N	5.92	130.24	120.94
27	R	56	GLU	C-N-CA	5.92	130.24	120.94
3	3	112	ILE	CA-C-O	-5.92	115.77	121.63
35	Z	886	VAL	O-C-N	5.92	130.01	122.61
26	Q	428	GLU	CA-C-N	5.92	128.21	120.28
26	Q	428	GLU	C-N-CA	5.92	128.21	120.28
27	R	261	LEU	CA-C-N	5.92	132.84	121.54
27	R	261	LEU	C-N-CA	5.92	132.84	121.54
28	S	404	LEU	CA-C-N	5.92	128.21	120.28
28	S	404	LEU	C-N-CA	5.92	128.21	120.28
2	2	33	LYS	N-CA-C	-5.92	105.72	113.17
12	C	231	LYS	N-CA-C	-5.92	102.65	110.40
13	D	17	ILE	CA-C-N	5.92	129.01	120.79
13	D	17	ILE	C-N-CA	5.92	129.01	120.79
26	Q	152	LYS	O-C-N	5.92	128.16	122.07
13	D	135	ILE	N-CA-C	-5.91	99.83	108.11
25	P	153	ILE	CA-C-N	5.91	128.12	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	P	153	ILE	C-N-CA	5.91	128.12	120.44
28	S	186	TYR	CA-C-O	-5.91	114.28	120.55
18	I	307	LEU	N-CA-C	-5.91	104.92	111.36
11	B	28	VAL	O-C-N	5.91	127.60	121.87
12	C	59	GLN	CA-C-N	5.91	129.29	120.31
12	C	59	GLN	C-N-CA	5.91	129.29	120.31
12	C	243	GLY	CA-C-N	5.91	129.86	122.48
12	C	243	GLY	C-N-CA	5.91	129.86	122.48
17	H	383	GLU	O-C-N	5.91	128.38	122.12
35	Z	368	VAL	CA-C-O	-5.91	114.86	121.36
16	G	106	ILE	CA-C-O	-5.91	114.22	119.71
19	J	390	MET	N-CA-C	-5.91	104.84	111.28
14	E	67	ILE	O-C-N	5.91	129.31	122.99
20	K	271	ILE	N-CA-C	-5.91	98.71	107.51
33	X	69	ILE	O-C-N	-5.91	116.85	121.46
31	V	46	PRO	CA-C-O	-5.90	114.71	121.56
19	J	107	LEU	N-CA-C	-5.90	102.18	110.50
2	2	142	TRP	N-CA-C	-5.90	102.58	110.55
18	I	302	ILE	CA-C-N	5.90	128.67	120.29
18	I	302	ILE	C-N-CA	5.90	128.67	120.29
29	T	129	LEU	CA-C-N	5.90	130.51	122.07
29	T	129	LEU	C-N-CA	5.90	130.51	122.07
26	Q	70	ALA	CA-C-O	5.90	126.57	119.43
29	T	15	PHE	CA-C-N	5.90	128.18	120.28
29	T	15	PHE	C-N-CA	5.90	128.18	120.28
35	Z	417	SER	CA-C-N	5.90	128.10	120.44
35	Z	417	SER	C-N-CA	5.90	128.10	120.44
21	L	267	PHE	N-CA-C	5.89	117.78	111.36
23	N	169	ALA	N-CA-C	5.89	118.18	111.11
26	Q	174	LEU	N-CA-C	5.89	117.70	111.28
27	R	217	HIS	CA-C-O	5.89	126.79	120.55
35	Z	111	LEU	CA-C-N	5.89	128.17	120.28
35	Z	111	LEU	C-N-CA	5.89	128.17	120.28
35	Z	387	ASN	CA-C-O	-5.89	114.63	120.82
20	K	262	ARG	CA-C-N	5.89	128.10	120.44
20	K	262	ARG	C-N-CA	5.89	128.10	120.44
26	Q	328	ASP	N-CA-C	-5.89	99.80	109.40
22	M	380	ALA	CA-C-O	-5.89	114.31	120.55
30	U	283	ARG	O-C-N	-5.89	115.88	122.12
33	X	43	LEU	N-CA-C	-5.89	104.29	112.30
21	L	109	MET	N-CA-C	-5.88	104.22	111.40
22	M	227	GLY	CA-C-N	5.88	128.09	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	M	227	GLY	C-N-CA	5.88	128.09	120.44
30	U	114	THR	N-CA-C	-5.88	100.37	109.14
35	Z	455	ILE	O-C-N	-5.88	115.77	121.83
33	X	27	ILE	CA-C-N	-5.88	112.49	119.84
33	X	27	ILE	C-N-CA	-5.88	112.49	119.84
14	E	144	ILE	O-C-N	5.88	129.35	123.18
35	Z	210	TYR	O-C-N	5.88	128.35	122.12
28	S	381	VAL	CA-C-N	5.88	128.64	120.29
28	S	381	VAL	C-N-CA	5.88	128.64	120.29
20	K	72	GLN	N-CA-C	-5.88	104.95	111.36
22	M	260	ALA	CA-C-N	5.88	128.16	120.28
22	M	260	ALA	C-N-CA	5.88	128.16	120.28
13	D	231	GLN	N-CA-C	5.88	118.47	111.71
19	J	190	PRO	CA-C-O	-5.88	116.09	120.73
19	J	385	ALA	O-C-N	-5.87	116.02	122.07
24	O	382	LYS	N-CA-C	5.87	118.16	111.11
13	D	210	ILE	N-CA-C	-5.87	100.02	108.48
20	K	392	LEU	CA-C-N	5.87	128.63	120.29
20	K	392	LEU	C-N-CA	5.87	128.63	120.29
26	Q	81	SER	CA-C-N	5.87	128.07	120.44
26	Q	81	SER	C-N-CA	5.87	128.07	120.44
12	C	199	LYS	N-CA-C	-5.87	105.78	113.17
11	B	90	ARG	CA-C-O	-5.87	114.33	120.55
24	O	373	TRP	CA-C-N	5.87	128.42	120.44
24	O	373	TRP	C-N-CA	5.87	128.42	120.44
28	S	232	MET	N-CA-C	5.87	117.67	111.28
10	A	19	PHE	N-CA-C	5.86	117.86	110.24
28	S	456	ASP	CA-C-N	5.86	125.34	119.24
28	S	456	ASP	C-N-CA	5.86	125.34	119.24
32	W	84	LYS	N-CA-C	5.86	118.39	109.95
11	B	214	ILE	CB-CA-C	5.86	118.61	110.99
18	I	369	MET	CA-C-O	-5.86	114.89	121.81
18	I	236	VAL	CA-C-O	5.86	127.06	120.85
21	L	413	ASP	CA-C-N	5.86	128.45	120.54
21	L	413	ASP	C-N-CA	5.86	128.45	120.54
14	E	250	GLU	N-CA-C	-5.86	106.17	113.38
15	F	197	ILE	CA-C-O	-5.86	114.14	120.47
17	H	243	PRO	O-C-N	5.86	130.55	122.64
17	H	398	VAL	N-CA-C	-5.86	99.43	107.75
3	3	161	ALA	O-C-N	5.86	128.10	122.07
13	D	139	ASP	CA-C-O	-5.86	114.43	120.87
18	I	221	LEU	N-CA-C	-5.86	99.35	108.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	P	72	TRP	N-CA-C	5.86	118.61	111.82
29	T	152	LEU	CA-C-N	5.86	128.40	120.44
29	T	152	LEU	C-N-CA	5.86	128.40	120.44
14	E	248	ALA	CA-C-N	5.85	132.72	121.54
14	E	248	ALA	C-N-CA	5.85	132.72	121.54
27	R	291	SER	N-CA-C	5.85	117.33	111.07
2	2	34	LEU	CA-C-N	5.85	131.72	122.94
2	2	34	LEU	C-N-CA	5.85	131.72	122.94
16	G	10	SER	CA-C-O	-5.85	115.16	121.36
23	N	399	PHE	O-C-N	-5.85	115.48	122.15
12	C	136	ILE	N-CA-C	-5.85	99.21	107.75
20	K	177	LEU	N-CA-C	-5.85	105.45	112.59
25	P	132	VAL	N-CA-C	-5.85	100.00	108.36
25	P	287	ASP	N-CA-C	-5.85	106.11	113.72
35	Z	552	GLU	O-C-N	5.85	128.11	122.03
18	I	376	ASN	N-CA-C	-5.85	97.68	107.80
23	N	452	LEU	CA-C-N	5.85	129.20	120.31
23	N	452	LEU	C-N-CA	5.85	129.20	120.31
25	P	343	LYS	CA-C-N	5.85	128.12	120.28
25	P	343	LYS	C-N-CA	5.85	128.12	120.28
27	R	328	PHE	CA-C-N	5.85	128.12	120.28
27	R	328	PHE	C-N-CA	5.85	128.12	120.28
11	B	136	ILE	O-C-N	5.85	129.40	123.20
35	Z	471	LEU	N-CA-C	5.85	117.33	111.07
20	K	375	ASN	N-CA-C	-5.84	98.88	108.76
23	N	910	PRO	N-CA-C	-5.84	105.91	113.57
28	S	400	LYS	O-C-N	5.84	129.06	122.22
19	J	156	GLN	CA-C-N	5.84	127.92	120.56
19	J	156	GLN	C-N-CA	5.84	127.92	120.56
24	O	314	SER	O-C-N	-5.84	116.05	122.07
1	1	155	ILE	O-C-N	-5.84	115.81	121.83
6	6	93	PHE	N-CA-C	-5.84	105.65	112.89
10	A	229	THR	N-CA-C	-5.84	100.44	109.14
15	F	189	LEU	CA-C-N	5.84	127.92	120.56
15	F	189	LEU	C-N-CA	5.84	127.92	120.56
28	S	266	SER	O-C-N	5.84	128.31	122.12
30	U	265	LEU	CA-C-O	-5.84	113.25	119.97
17	H	311	ILE	N-CA-C	-5.84	107.05	112.83
27	R	296	LEU	CA-C-O	-5.84	114.23	120.42
35	Z	437	ASP	CA-C-O	5.84	126.74	120.55
17	H	162	ARG	CA-CB-CG	5.84	125.77	114.10
25	P	117	SER	CA-C-N	5.84	128.71	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	P	117	SER	C-N-CA	5.84	128.71	120.42
35	Z	587	THR	N-CA-C	-5.84	104.82	111.07
3	3	135	ASP	O-C-N	5.83	128.08	122.07
18	I	238	ASN	CA-C-N	5.83	129.18	120.31
18	I	238	ASN	C-N-CA	5.83	129.18	120.31
25	P	160	LEU	CA-C-N	5.83	128.58	120.29
25	P	160	LEU	C-N-CA	5.83	128.58	120.29
27	R	308	LEU	CA-C-N	5.83	128.58	120.29
27	R	308	LEU	C-N-CA	5.83	128.58	120.29
2	2	65	LEU	CA-C-O	5.83	126.73	120.55
20	K	77	ARG	CA-C-N	5.83	128.57	120.29
20	K	77	ARG	C-N-CA	5.83	128.57	120.29
35	Z	509	LEU	O-C-N	-5.83	115.50	122.15
10	A	22	GLU	CA-C-O	5.83	126.34	119.28
17	H	349	ILE	CA-C-N	5.83	131.69	122.94
17	H	349	ILE	C-N-CA	5.83	131.69	122.94
21	L	248	ALA	CA-C-N	5.83	128.09	120.28
21	L	248	ALA	C-N-CA	5.83	128.09	120.28
30	U	71	ASN	CA-C-O	5.83	126.68	119.97
30	U	92	TRP	CA-C-N	5.83	131.69	122.94
30	U	92	TRP	C-N-CA	5.83	131.69	122.94
20	K	284	ALA	CA-C-N	5.83	131.91	122.29
20	K	284	ALA	C-N-CA	5.83	131.91	122.29
22	M	373	ASP	CA-C-N	5.83	128.91	120.98
22	M	373	ASP	C-N-CA	5.83	128.91	120.98
12	C	60	ASP	CA-C-N	5.83	130.17	121.72
12	C	60	ASP	C-N-CA	5.83	130.17	121.72
17	H	292	ARG	CA-C-N	5.83	128.67	120.28
17	H	292	ARG	C-N-CA	5.83	128.67	120.28
23	N	107	GLU	CA-C-N	5.83	128.01	120.44
23	N	107	GLU	C-N-CA	5.83	128.01	120.44
28	S	273	PHE	O-C-N	-5.83	115.94	122.12
20	K	279	THR	N-CA-C	-5.82	98.24	108.20
20	K	301	THR	CA-C-O	-5.82	114.70	120.70
20	K	394	ALA	CA-C-N	5.82	128.69	120.42
20	K	394	ALA	C-N-CA	5.82	128.69	120.42
32	W	188	SER	N-CA-C	5.82	116.30	109.60
18	I	370	ASN	N-CA-C	-5.82	98.79	108.34
23	N	149	GLU	N-CA-C	-5.82	98.92	108.41
20	K	188	VAL	CA-C-N	5.82	128.35	120.44
20	K	188	VAL	C-N-CA	5.82	128.35	120.44
23	N	698	GLY	O-C-N	5.82	129.03	122.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	A	223	LEU	N-CA-C	-5.82	100.66	109.85
16	G	81	ILE	CA-C-O	-5.82	114.79	118.69
18	I	142	GLU	O-C-N	-5.82	117.75	121.88
29	T	222	LEU	CA-C-N	5.82	128.35	120.38
29	T	222	LEU	C-N-CA	5.82	128.35	120.38
32	W	142	ILE	O-C-N	-5.82	115.30	122.57
28	S	455	GLU	CA-C-N	5.81	126.99	119.78
28	S	455	GLU	C-N-CA	5.81	126.99	119.78
18	I	417	LYS	O-C-N	5.81	128.28	122.12
23	N	6	ALA	CA-C-N	5.81	127.36	120.09
23	N	6	ALA	C-N-CA	5.81	127.36	120.09
33	X	62	ASP	O-C-N	-5.81	115.80	121.38
27	R	350	LEU	CA-C-N	5.81	128.34	120.44
27	R	350	LEU	C-N-CA	5.81	128.34	120.44
35	Z	89	LEU	CA-C-N	5.81	127.99	120.44
35	Z	89	LEU	C-N-CA	5.81	127.99	120.44
3	3	48	ALA	CA-C-O	5.80	126.70	120.55
18	I	390	ALA	CA-C-N	5.80	128.06	120.28
18	I	390	ALA	C-N-CA	5.80	128.06	120.28
35	Z	983	LEU	CA-C-N	5.80	131.68	122.62
35	Z	983	LEU	C-N-CA	5.80	131.68	122.62
1	1	2	SER	CA-C-O	5.80	125.95	120.09
17	H	384	GLY	CA-C-N	5.80	128.05	120.28
17	H	384	GLY	C-N-CA	5.80	128.05	120.28
18	I	358	LYS	CA-C-N	5.80	127.98	120.44
18	I	358	LYS	C-N-CA	5.80	127.98	120.44
22	M	333	LEU	CA-C-N	5.80	128.92	120.51
22	M	333	LEU	C-N-CA	5.80	128.92	120.51
30	U	200	LEU	CA-C-N	5.80	128.37	120.54
30	U	200	LEU	C-N-CA	5.80	128.37	120.54
18	I	330	LYS	N-CA-C	-5.80	100.49	109.24
28	S	410	LYS	CA-C-N	5.80	129.12	120.31
28	S	410	LYS	C-N-CA	5.80	129.12	120.31
35	Z	865	ASP	O-C-N	-5.80	117.17	123.26
27	R	382	ASP	O-C-N	-5.79	116.49	123.27
19	J	368	TYR	CA-C-N	5.79	127.97	120.44
19	J	368	TYR	C-N-CA	5.79	127.97	120.44
29	T	127	GLN	CA-C-N	5.79	128.04	120.28
29	T	127	GLN	C-N-CA	5.79	128.04	120.28
32	W	56	GLY	N-CA-C	-5.79	102.43	111.00
20	K	123	LEU	CA-C-O	-5.79	115.25	121.56
25	P	376	THR	CA-C-N	5.79	128.04	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	P	376	THR	C-N-CA	5.79	128.04	120.28
21	L	90	LYS	N-CA-C	5.79	117.67	111.36
21	L	344	ASP	O-C-N	5.79	129.08	122.25
23	N	191	THR	N-CA-C	-5.79	104.97	111.28
28	S	126	LYS	CA-C-N	5.79	127.97	120.44
28	S	126	LYS	C-N-CA	5.79	127.97	120.44
21	L	105	ILE	CA-C-O	-5.79	114.13	120.84
27	R	310	GLU	N-CA-C	5.79	117.67	111.36
14	E	128	SER	N-CA-C	-5.78	105.89	113.17
2	2	132	LEU	N-CA-C	5.78	117.38	111.14
21	L	132	ARG	CA-C-N	5.78	129.05	120.90
21	L	132	ARG	C-N-CA	5.78	129.05	120.90
21	L	317	ASN	N-CA-C	-5.78	100.37	109.50
32	W	90	ALA	N-CA-C	5.78	118.36	111.71
1	1	176	VAL	O-C-N	-5.78	117.17	123.18
2	2	128	GLY	O-C-N	5.78	128.55	123.06
4	4	79	VAL	CA-C-N	5.78	128.49	120.29
4	4	79	VAL	C-N-CA	5.78	128.49	120.29
7	7	85	PHE	O-C-N	-5.78	116.12	122.07
14	E	192	THR	CA-C-O	-5.78	114.86	121.68
25	P	43	GLU	O-C-N	5.78	128.24	122.12
28	S	390	THR	CA-C-N	5.78	126.39	119.98
28	S	390	THR	C-N-CA	5.78	126.39	119.98
29	T	25	LYS	CA-C-O	5.78	126.65	120.70
35	Z	210	TYR	CA-C-O	-5.78	114.42	120.55
35	Z	494	GLY	O-C-N	5.78	127.80	122.19
35	Z	541	ASP	CA-C-O	-5.78	114.75	120.82
6	6	54	ALA	CA-C-N	5.78	127.95	120.44
6	6	54	ALA	C-N-CA	5.78	127.95	120.44
22	M	46	SER	CA-C-O	5.78	126.48	119.38
33	X	42	GLU	N-CA-C	-5.78	104.35	111.40
16	G	237	GLU	O-C-N	-5.77	116.00	122.12
5	5	156	LEU	CA-C-N	5.77	126.34	119.94
5	5	156	LEU	C-N-CA	5.77	126.34	119.94
5	5	180	VAL	N-CA-C	-5.77	99.57	107.99
19	J	293	ALA	N-CA-C	-5.77	99.25	109.06
1	1	37	VAL	CA-C-O	5.77	123.98	118.90
2	2	31	CYS	N-CA-C	-5.77	98.51	110.80
13	D	6	ARG	CA-C-O	-5.77	115.00	121.81
17	H	390	ARG	O-C-N	5.77	128.73	122.15
35	Z	442	VAL	N-CA-C	-5.77	100.12	108.89
11	B	49	LYS	CA-C-O	-5.77	114.38	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	Q	419	LEU	N-CA-C	5.77	117.24	111.07
31	V	251	TYR	CA-C-N	5.77	128.58	120.28
31	V	251	TYR	C-N-CA	5.77	128.58	120.28
6	6	10	ASP	O-C-N	5.76	130.26	122.59
19	J	257	ARG	CA-C-N	5.76	129.69	122.43
19	J	257	ARG	C-N-CA	5.76	129.69	122.43
22	M	210	MET	N-CA-C	-5.76	104.90	111.07
15	F	64	ILE	CB-CA-C	5.76	118.20	110.42
10	A	61	ASP	CA-C-N	5.76	132.81	122.38
10	A	61	ASP	C-N-CA	5.76	132.81	122.38
16	G	178	LEU	N-CA-C	5.76	117.56	111.28
23	N	607	GLN	CA-C-N	5.76	128.28	120.44
23	N	607	GLN	C-N-CA	5.76	128.28	120.44
15	F	107	ARG	CA-C-O	-5.76	114.77	120.70
17	H	163	VAL	CA-C-O	5.76	127.98	120.78
21	L	415	LEU	O-C-N	-5.76	116.01	122.12
23	N	111	GLN	CA-C-N	5.76	128.00	120.28
23	N	111	GLN	C-N-CA	5.76	128.00	120.28
16	G	198	ILE	CA-C-O	5.76	126.94	120.95
20	K	363	ALA	O-C-N	-5.76	114.70	121.32
25	P	189	LEU	N-CA-C	5.76	117.56	111.28
35	Z	455	ILE	CA-C-O	5.76	126.95	120.85
28	S	266	SER	CA-C-O	-5.75	114.45	120.55
26	Q	426	LEU	CA-C-N	5.75	128.26	120.38
26	Q	426	LEU	C-N-CA	5.75	128.26	120.38
30	U	230	GLN	CB-CA-C	-5.75	98.97	110.42
18	I	227	THR	N-CA-C	-5.75	107.51	114.75
26	Q	295	GLY	N-CA-C	-5.75	105.53	112.49
11	B	129	PRO	CA-C-O	-5.75	115.00	122.12
13	D	242	GLU	N-CA-C	-5.75	106.61	113.97
18	I	124	THR	N-CA-C	-5.75	106.31	113.38
35	Z	213	LYS	CA-C-N	5.75	130.31	120.72
35	Z	213	LYS	C-N-CA	5.75	130.31	120.72
11	B	60	THR	CA-C-N	5.74	129.00	120.90
11	B	60	THR	C-N-CA	5.74	129.00	120.90
21	L	209	ARG	O-C-N	-5.74	115.60	122.15
5	5	73	ARG	O-C-N	-5.74	116.08	122.86
6	6	188	GLN	CA-C-N	5.74	130.98	123.06
6	6	188	GLN	C-N-CA	5.74	130.98	123.06
23	N	652	VAL	CA-C-N	5.74	127.90	120.44
23	N	652	VAL	C-N-CA	5.74	127.90	120.44
24	O	286	PHE	CA-C-N	5.74	127.97	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	O	286	PHE	C-N-CA	5.74	127.97	120.28
25	P	352	VAL	CA-C-N	5.74	128.33	120.46
25	P	352	VAL	C-N-CA	5.74	128.33	120.46
30	U	280	ASN	N-CA-C	5.74	117.54	111.28
2	2	13	VAL	O-C-N	-5.74	116.98	123.18
12	C	215	THR	N-CA-C	-5.74	100.58	109.24
31	V	276	PRO	CA-C-N	5.74	127.97	120.28
31	V	276	PRO	C-N-CA	5.74	127.97	120.28
32	W	39	ALA	CA-C-O	5.74	127.00	120.00
25	P	108	LYS	CA-C-N	5.74	132.75	122.89
25	P	108	LYS	C-N-CA	5.74	132.75	122.89
15	F	53	ALA	CA-C-O	5.73	125.21	118.90
22	M	360	ILE	CA-C-N	5.73	128.43	120.29
22	M	360	ILE	C-N-CA	5.73	128.43	120.29
20	K	213	GLY	N-CA-C	-5.73	100.65	112.34
20	K	336	ARG	N-CA-C	-5.73	99.95	109.46
17	H	210	ASP	CA-C-N	5.73	132.28	121.97
17	H	210	ASP	C-N-CA	5.73	132.28	121.97
23	N	778	LYS	N-CA-CB	5.73	118.54	110.24
27	R	271	ILE	O-C-N	5.73	128.03	122.25
29	T	266	TYR	O-C-N	-5.73	116.17	122.07
3	3	23	GLN	CB-CA-C	-5.73	108.33	115.89
24	O	45	LEU	CA-C-N	5.73	128.74	120.38
24	O	45	LEU	C-N-CA	5.73	128.74	120.38
30	U	77	ASN	OD1-CG-ND2	5.73	128.33	122.60
1	1	54	ALA	CA-C-N	5.72	127.77	120.56
1	1	54	ALA	C-N-CA	5.72	127.77	120.56
35	Z	88	PRO	CA-C-N	5.72	127.95	120.28
35	Z	88	PRO	C-N-CA	5.72	127.95	120.28
1	1	47	GLY	N-CA-C	-5.72	99.62	113.18
13	D	43	VAL	CA-C-O	-5.72	114.20	120.84
25	P	198	VAL	CA-C-N	5.72	127.95	120.28
25	P	198	VAL	C-N-CA	5.72	127.95	120.28
27	R	272	ASP	N-CA-C	-5.72	98.61	110.80
35	Z	841	GLU	O-C-N	-5.72	116.51	122.18
26	Q	266	LEU	CA-C-N	5.72	127.88	120.44
26	Q	266	LEU	C-N-CA	5.72	127.88	120.44
35	Z	261	ASP	N-CA-C	5.72	118.08	110.53
3	3	59	ARG	CA-C-N	5.72	127.87	120.44
3	3	59	ARG	C-N-CA	5.72	127.87	120.44
13	D	36	VAL	N-CA-C	-5.72	99.94	108.46
17	H	207	THR	CA-C-N	5.72	132.46	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	H	207	THR	C-N-CA	5.72	132.46	121.54
20	K	59	GLU	CA-C-N	5.72	127.87	120.44
20	K	59	GLU	C-N-CA	5.72	127.87	120.44
21	L	218	VAL	N-CA-C	-5.72	99.54	108.86
23	N	557	LEU	CA-C-N	5.72	128.21	120.38
23	N	557	LEU	C-N-CA	5.72	128.21	120.38
28	S	389	LYS	CA-C-N	5.71	127.94	120.28
28	S	389	LYS	C-N-CA	5.71	127.94	120.28
5	5	190	ASN	N-CA-C	-5.71	99.87	109.07
16	G	96	ALA	CA-C-N	5.71	127.94	120.28
16	G	96	ALA	C-N-CA	5.71	127.94	120.28
35	Z	93	ARG	O-C-N	-5.71	115.04	120.70
12	C	178	MET	N-CA-C	-5.71	104.43	111.40
18	I	291	ARG	CA-C-N	5.71	130.35	120.58
18	I	291	ARG	C-N-CA	5.71	130.35	120.58
11	B	135	LEU	O-C-N	-5.71	116.65	123.27
22	M	48	LEU	N-CA-C	5.71	117.18	111.07
25	P	225	VAL	CA-C-O	-5.71	114.80	120.85
4	4	64	GLN	O-C-N	5.71	128.90	122.22
27	R	278	SER	CA-C-N	5.71	128.39	120.29
27	R	278	SER	C-N-CA	5.71	128.39	120.29
25	P	29	GLN	CG-CD-OE1	5.71	132.21	120.80
2	2	182	LYS	CA-C-N	5.70	128.20	120.44
2	2	182	LYS	C-N-CA	5.70	128.20	120.44
21	L	214	PRO	CA-C-O	-5.70	116.79	120.90
12	C	67	TYR	CA-C-N	5.70	130.23	122.19
12	C	67	TYR	C-N-CA	5.70	130.23	122.19
12	C	213	PHE	N-CA-C	-5.70	99.37	109.06
19	J	313	LYS	CA-C-N	-5.70	116.12	123.19
19	J	313	LYS	C-N-CA	-5.70	116.12	123.19
29	T	143	SER	O-C-N	-5.70	116.08	122.12
18	I	376	ASN	CA-C-N	5.70	127.92	120.28
18	I	376	ASN	C-N-CA	5.70	127.92	120.28
25	P	48	GLN	OE1-CD-NE2	-5.70	116.90	122.60
20	K	403	LEU	CA-C-O	-5.70	114.97	121.58
11	B	156	TYR	O-C-N	5.69	130.06	123.17
14	E	206	GLN	CA-C-O	5.69	127.33	121.07
11	B	141	GLU	CA-C-N	5.69	131.13	122.37
11	B	141	GLU	C-N-CA	5.69	131.13	122.37
20	K	62	THR	CA-C-N	5.69	128.37	120.29
20	K	62	THR	C-N-CA	5.69	128.37	120.29
30	U	274	MET	CA-C-O	-5.69	114.85	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	2	124	TYR	N-CA-C	-5.69	99.34	108.55
26	Q	403	PRO	N-CA-C	5.69	124.18	112.47
13	D	126	VAL	CA-C-O	5.68	127.31	121.28
21	L	387	ASN	N-CA-C	-5.68	101.55	110.36
30	U	225	ILE	CA-C-O	-5.68	115.14	121.17
16	G	95	ALA	CA-C-O	-5.68	114.86	120.82
7	7	23	GLY	O-C-N	5.68	130.08	122.70
11	B	68	THR	CA-C-O	-5.68	115.77	120.71
14	E	109	VAL	O-C-N	-5.68	116.36	121.87
21	L	379	ALA	CA-C-N	5.68	128.24	120.46
21	L	379	ALA	C-N-CA	5.68	128.24	120.46
35	Z	782	ILE	O-C-N	5.68	127.80	121.90
23	N	602	VAL	CA-C-O	-5.67	112.35	119.95
20	K	209	VAL	N-CA-C	-5.67	99.61	108.86
11	B	229	THR	N-CA-C	-5.67	108.15	114.62
17	H	314	VAL	N-CA-C	-5.67	99.89	108.17
35	Z	759	ARG	CA-C-N	5.67	127.88	120.28
35	Z	759	ARG	C-N-CA	5.67	127.88	120.28
35	Z	829	GLN	CA-C-O	5.67	126.43	120.42
35	Z	907	GLY	CA-C-N	5.67	129.48	121.66
35	Z	907	GLY	C-N-CA	5.67	129.48	121.66
2	2	81	GLN	O-C-N	5.67	128.13	122.12
3	3	-7	ASP	CA-C-N	5.67	126.92	119.84
3	3	-7	ASP	C-N-CA	5.67	126.92	119.84
7	7	123	ASN	CA-C-N	5.67	130.18	120.72
7	7	123	ASN	C-N-CA	5.67	130.18	120.72
19	J	327	ILE	CA-C-N	5.67	128.34	120.29
19	J	327	ILE	C-N-CA	5.67	128.34	120.29
30	U	126	LYS	CA-C-N	5.67	130.62	122.40
30	U	126	LYS	C-N-CA	5.67	130.62	122.40
3	3	84	SER	CA-C-N	5.67	128.33	120.29
3	3	84	SER	C-N-CA	5.67	128.33	120.29
28	S	256	LYS	O-C-N	5.67	128.85	122.22
35	Z	848	THR	N-CA-C	-5.67	105.19	111.36
15	F	138	ASP	N-CA-C	-5.66	98.74	110.80
4	4	98	GLN	N-CA-C	-5.66	103.64	110.44
21	L	422	VAL	CA-C-N	5.66	128.33	120.29
21	L	422	VAL	C-N-CA	5.66	128.33	120.29
10	A	21	PRO	N-CA-C	-5.66	105.66	113.53
11	B	188	ALA	N-CA-C	-5.66	105.25	111.82
17	H	448	ASP	CA-C-O	-5.66	114.55	120.55
25	P	364	ARG	N-CA-C	5.66	117.53	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	6	76	SER	N-CA-C	-5.66	101.33	110.32
18	I	104	LEU	N-CA-C	-5.66	99.68	108.90
32	W	15	TYR	N-CA-C	5.66	116.52	108.54
11	B	185	LEU	CA-C-N	5.66	128.18	120.54
11	B	185	LEU	C-N-CA	5.66	128.18	120.54
19	J	97	ASP	CA-C-N	5.66	128.29	120.49
19	J	97	ASP	C-N-CA	5.66	128.29	120.49
19	J	139	VAL	O-C-N	5.66	128.91	123.14
24	O	325	GLU	CA-C-O	5.66	126.55	120.55
25	P	199	LEU	N-CA-C	-5.66	105.12	111.28
15	F	115	LYS	N-CA-C	-5.65	105.20	111.36
5	5	63	CYS	CA-C-N	5.65	127.86	120.28
5	5	63	CYS	C-N-CA	5.65	127.86	120.28
17	H	336	LEU	CA-C-O	-5.65	114.56	120.55
23	N	429	GLU	N-CA-C	5.65	117.44	111.28
35	Z	544	THR	CA-C-N	5.65	127.79	120.44
35	Z	544	THR	C-N-CA	5.65	127.79	120.44
3	3	26	GLY	O-C-N	-5.65	118.13	122.99
25	P	152	LYS	O-C-N	5.65	128.94	122.55
30	U	196	SER	N-CA-C	-5.65	105.02	111.07
32	W	87	MET	O-C-N	-5.65	116.13	122.12
14	E	89	ILE	N-CA-C	5.65	116.38	110.62
4	4	34	THR	N-CA-C	-5.65	100.49	109.07
20	K	379	SER	CA-C-N	5.65	127.39	120.22
20	K	379	SER	C-N-CA	5.65	127.39	120.22
28	S	152	LEU	N-CA-C	5.65	117.44	111.28
18	I	78	ASN	CA-C-N	5.64	127.84	120.28
18	I	78	ASN	C-N-CA	5.64	127.84	120.28
19	J	148	ASP	CA-C-O	5.64	125.88	119.27
21	L	181	ASP	CA-C-O	5.64	125.87	119.27
22	M	209	ASP	CA-C-N	5.64	127.78	120.44
22	M	209	ASP	C-N-CA	5.64	127.78	120.44
27	R	154	LEU	O-C-N	-5.64	115.72	122.15
31	V	237	ASN	N-CA-C	5.64	117.11	111.07
4	4	150	ASP	CA-C-N	5.64	132.07	122.37
4	4	150	ASP	C-N-CA	5.64	132.07	122.37
21	L	68	ARG	N-CA-C	5.64	117.43	111.28
26	Q	315	ASN	N-CA-C	-5.64	105.21	111.36
10	A	230	LYS	O-C-N	5.64	130.15	122.48
16	G	240	ASP	CA-C-N	5.64	127.83	120.28
16	G	240	ASP	C-N-CA	5.64	127.83	120.28
1	1	39	ASP	O-C-N	-5.64	116.15	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	K	79	LEU	N-CA-C	5.64	117.42	111.28
23	N	101	ILE	N-CA-C	5.64	120.33	112.50
23	N	660	LEU	CA-C-N	5.64	128.88	120.31
23	N	660	LEU	C-N-CA	5.64	128.88	120.31
32	W	84	LYS	N-CA-CB	-5.64	102.03	110.60
4	4	20	VAL	CA-C-N	-5.63	115.22	123.00
4	4	20	VAL	C-N-CA	-5.63	115.22	123.00
20	K	417	THR	N-CA-C	-5.63	106.08	114.64
22	M	377	GLN	CA-C-N	5.63	127.83	120.28
22	M	377	GLN	C-N-CA	5.63	127.83	120.28
24	O	20	PRO	N-CA-CB	-5.63	97.33	103.25
25	P	433	ILE	CA-C-O	-5.63	115.09	120.95
16	G	77	TYR	N-CA-C	5.63	117.63	109.07
17	H	218	ILE	N-CA-C	5.63	116.36	110.62
20	K	152	PRO	O-C-N	5.63	126.73	122.73
29	T	52	LEU	CA-C-N	5.63	130.13	122.19
29	T	52	LEU	C-N-CA	5.63	130.13	122.19
5	5	199	LYS	O-C-N	5.63	127.89	122.03
16	G	13	VAL	CA-C-N	5.63	130.77	123.00
16	G	13	VAL	C-N-CA	5.63	130.77	123.00
28	S	452	TYR	CA-C-N	5.63	128.71	120.71
28	S	452	TYR	C-N-CA	5.63	128.71	120.71
31	V	108	TYR	CA-C-O	-5.63	115.04	121.68
35	Z	762	GLY	N-CA-C	5.63	119.70	112.83
11	B	98	LYS	CA-C-N	5.63	128.80	119.35
11	B	98	LYS	C-N-CA	5.63	128.80	119.35
13	D	227	GLU	CA-C-N	5.63	127.82	120.28
13	D	227	GLU	C-N-CA	5.63	127.82	120.28
6	6	45	ALA	N-CA-C	-5.62	96.38	107.69
17	H	451	ILE	CA-C-N	5.62	128.28	120.29
17	H	451	ILE	C-N-CA	5.62	128.28	120.29
28	S	252	ASP	CA-C-N	5.62	128.28	120.29
28	S	252	ASP	C-N-CA	5.62	128.28	120.29
12	C	84	ALA	CA-C-N	5.62	127.82	120.28
12	C	84	ALA	C-N-CA	5.62	127.82	120.28
17	H	255	GLY	CA-C-O	5.62	126.05	119.19
25	P	437	GLU	N-CA-C	5.62	117.86	111.11
35	Z	434	GLN	O-C-N	-5.62	116.16	122.12
5	5	2	THR	CA-C-N	5.62	131.78	122.33
5	5	2	THR	C-N-CA	5.62	131.78	122.33
18	I	214	LYS	CA-C-N	5.62	126.17	120.38
18	I	214	LYS	C-N-CA	5.62	126.17	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	Q	210	CYS	CA-C-N	5.62	125.59	120.03
26	Q	210	CYS	C-N-CA	5.62	125.59	120.03
6	6	200	LYS	N-CA-C	-5.62	106.42	113.28
18	I	237	ALA	O-C-N	5.62	128.08	122.12
26	Q	265	MET	CA-C-N	5.62	127.81	120.28
26	Q	265	MET	C-N-CA	5.62	127.81	120.28
16	G	109	PRO	CA-C-N	5.62	128.08	120.44
16	G	109	PRO	C-N-CA	5.62	128.08	120.44
18	I	322	VAL	N-CA-C	-5.62	100.03	108.12
31	V	240	ALA	O-C-N	5.62	127.93	122.09
14	E	239	LEU	CA-C-O	5.61	126.37	120.42
17	H	224	VAL	CA-C-N	-5.61	117.41	123.08
17	H	224	VAL	C-N-CA	-5.61	117.41	123.08
23	N	419	THR	O-C-N	-5.61	115.65	122.22
24	O	153	LEU	CA-C-N	5.61	127.74	120.44
24	O	153	LEU	C-N-CA	5.61	127.74	120.44
25	P	388	ILE	N-CA-C	-5.61	104.07	111.09
35	Z	967	THR	O-C-N	-5.61	117.41	123.42
25	P	62	ILE	CB-CA-C	-5.61	104.67	112.02
30	U	190	LEU	O-C-N	-5.61	116.29	122.07
20	K	320	ARG	N-CA-C	-5.61	98.85	110.80
22	M	335	PRO	CA-C-O	-5.61	115.20	121.32
27	R	325	HIS	N-CA-C	-5.61	105.03	112.94
32	W	78	ASP	CA-C-O	5.61	126.37	120.42
18	I	369	MET	CA-C-N	5.61	130.68	122.77
18	I	369	MET	C-N-CA	5.61	130.68	122.77
31	V	153	ILE	CA-C-N	-5.61	113.39	122.36
31	V	153	ILE	C-N-CA	-5.61	113.39	122.36
16	G	154	GLY	N-CA-C	-5.61	106.82	116.01
19	J	171	PRO	CA-C-N	5.61	127.79	120.28
19	J	171	PRO	C-N-CA	5.61	127.79	120.28
31	V	279	HIS	CA-CB-CG	5.61	119.41	113.80
32	W	53	SER	O-C-N	-5.61	117.38	123.26
32	W	193	GLU	N-CA-C	-5.60	99.91	108.76
18	I	279	VAL	N-CA-C	-5.60	99.17	107.51
7	7	-6	GLN	N-CA-C	-5.60	99.16	108.23
18	I	338	LEU	N-CA-C	-5.60	106.80	113.97
24	O	374	ASN	N-CA-C	5.60	117.19	111.14
17	H	321	ASP	N-CA-C	-5.60	103.56	111.56
18	I	224	ALA	CA-C-N	5.60	126.84	119.84
18	I	224	ALA	C-N-CA	5.60	126.84	119.84
34	Y	80	GLU	CA-C-N	5.60	127.78	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	Y	80	GLU	C-N-CA	5.60	127.78	120.28
35	Z	832	ARG	CA-C-O	5.60	126.48	120.55
7	7	-2	THR	CA-C-O	5.60	127.66	121.11
7	7	58	LEU	CA-C-N	5.59	127.78	120.28
7	7	58	LEU	C-N-CA	5.59	127.78	120.28
17	H	203	LYS	CA-C-N	5.59	125.35	119.76
17	H	203	LYS	C-N-CA	5.59	125.35	119.76
35	Z	481	PRO	O-C-N	5.59	130.19	122.64
35	Z	954	PRO	CA-C-N	5.59	132.04	121.97
35	Z	954	PRO	C-N-CA	5.59	132.04	121.97
4	4	46	ALA	N-CA-C	-5.59	100.21	108.99
4	4	74	LEU	CA-C-N	5.59	129.18	120.68
4	4	74	LEU	C-N-CA	5.59	129.18	120.68
5	5	105	THR	CA-C-O	-5.59	114.79	121.56
4	4	190	GLN	O-C-N	-5.59	116.84	123.22
17	H	412	PRO	O-C-N	5.59	130.19	122.64
7	7	173	MET	CA-C-N	5.59	130.14	120.58
7	7	173	MET	C-N-CA	5.59	130.14	120.58
13	D	45	GLY	O-C-N	-5.59	117.34	123.49
22	M	235	CYS	CA-C-N	5.59	127.77	120.28
22	M	235	CYS	C-N-CA	5.59	127.77	120.28
26	Q	61	LEU	CA-C-N	5.59	127.32	120.22
26	Q	61	LEU	C-N-CA	5.59	127.32	120.22
26	Q	239	PHE	CA-C-N	5.59	127.70	120.44
26	Q	239	PHE	C-N-CA	5.59	127.70	120.44
28	S	327	ILE	CB-CA-C	5.59	115.55	110.13
6	6	134	ALA	CA-C-N	5.59	128.80	120.31
6	6	134	ALA	C-N-CA	5.59	128.80	120.31
20	K	259	ARG	CA-C-O	5.59	126.88	120.90
23	N	780	ASP	O-C-N	-5.59	115.02	122.00
30	U	225	ILE	O-C-N	5.59	127.39	121.91
31	V	254	ARG	N-CA-C	-5.59	105.96	112.89
2	2	21	THR	CA-C-O	5.59	127.42	121.11
19	J	360	GLY	O-C-N	-5.59	116.83	122.19
23	N	765	ASP	O-C-N	-5.59	115.72	122.48
25	P	66	LEU	N-CA-CB	5.59	118.94	110.28
17	H	442	ASP	O-C-N	5.58	128.04	122.12
1	1	122	LEU	O-C-N	-5.58	118.14	121.71
26	Q	248	ASN	O-C-N	-5.58	115.78	122.15
27	R	295	SER	CA-C-N	5.58	128.22	120.29
27	R	295	SER	C-N-CA	5.58	128.22	120.29
11	B	168	SER	O-C-N	-5.58	116.06	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	J	29	GLU	N-CA-C	5.58	117.36	111.28
28	S	270	ALA	CA-C-N	5.58	128.22	120.29
28	S	270	ALA	C-N-CA	5.58	128.22	120.29
30	U	86	LYS	N-CA-C	-5.58	98.91	110.80
33	X	54	GLU	CA-CB-CG	5.58	125.26	114.10
6	6	-2	ASN	N-CA-C	-5.58	104.30	113.50
24	O	262	ASP	CA-C-N	5.58	128.21	120.29
24	O	262	ASP	C-N-CA	5.58	128.21	120.29
29	T	132	HIS	N-CA-C	5.58	117.22	111.03
26	Q	277	ASP	O-C-N	-5.58	114.96	122.43
17	H	259	CYS	CA-C-N	5.57	127.75	120.28
17	H	259	CYS	C-N-CA	5.57	127.75	120.28
19	J	287	ASN	N-CA-C	-5.57	105.91	114.16
22	M	248	ALA	CA-C-O	-5.57	112.93	118.34
23	N	535	LEU	CA-C-N	5.57	127.58	120.56
23	N	535	LEU	C-N-CA	5.57	127.58	120.56
23	N	726	ASP	CA-C-N	5.57	127.75	120.28
23	N	726	ASP	C-N-CA	5.57	127.75	120.28
27	R	110	ILE	CA-C-O	-5.57	114.94	120.85
35	Z	754	LYS	CA-C-N	5.57	128.20	120.29
35	Z	754	LYS	C-N-CA	5.57	128.20	120.29
13	D	146	LYS	CA-C-O	-5.57	114.14	120.32
23	N	165	ILE	CA-C-N	5.57	128.09	120.46
23	N	165	ILE	C-N-CA	5.57	128.09	120.46
5	5	70	GLU	O-C-N	-5.57	115.12	122.42
23	N	525	ASN	O-C-N	5.57	130.25	123.01
30	U	212	ASP	CA-C-N	5.57	127.68	120.44
30	U	212	ASP	C-N-CA	5.57	127.68	120.44
12	C	8	SER	N-CA-C	-5.57	101.01	108.86
16	G	247	ASN	CA-C-N	5.57	131.72	121.70
16	G	247	ASN	C-N-CA	5.57	131.72	121.70
1	1	79	ALA	CA-C-N	5.57	128.19	120.29
1	1	79	ALA	C-N-CA	5.57	128.19	120.29
2	2	212	VAL	N-CA-C	-5.57	100.04	108.17
11	B	175	LEU	CA-C-N	5.57	127.74	120.28
11	B	175	LEU	C-N-CA	5.57	127.74	120.28
14	E	16	SER	CA-C-N	5.57	125.40	119.28
14	E	16	SER	C-N-CA	5.57	125.40	119.28
18	I	206	GLU	N-CA-C	5.57	117.35	111.28
21	L	185	GLY	CA-C-O	5.57	125.19	119.01
28	S	465	ILE	CA-C-N	5.57	127.68	120.44
28	S	465	ILE	C-N-CA	5.57	127.68	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	6	81	ALA	O-C-N	-5.56	116.34	122.07
20	K	72	GLN	CA-C-O	-5.56	114.52	120.42
22	M	244	LEU	N-CA-C	-5.56	98.12	108.02
26	Q	393	GLY	N-CA-C	-5.56	100.00	113.18
29	T	8	THR	CA-C-N	5.56	127.67	120.44
29	T	8	THR	C-N-CA	5.56	127.67	120.44
17	H	188	PRO	CB-CA-C	-5.56	104.14	110.92
18	I	387	LEU	CA-C-N	5.56	129.15	120.75
18	I	387	LEU	C-N-CA	5.56	129.15	120.75
26	Q	287	THR	N-CA-C	-5.56	104.14	112.54
27	R	185	LEU	O-C-N	-5.56	114.80	122.30
35	Z	990	ARG	CA-C-N	5.56	129.67	120.94
35	Z	990	ARG	C-N-CA	5.56	129.67	120.94
12	C	6	TYR	N-CA-C	-5.56	104.74	113.02
14	E	144	ILE	N-CA-C	-5.56	100.39	108.17
22	M	266	ALA	CA-C-O	-5.56	114.53	120.42
22	M	413	GLU	CA-C-N	5.56	127.73	120.28
22	M	413	GLU	C-N-CA	5.56	127.73	120.28
31	V	45	VAL	O-C-N	-5.56	114.76	121.10
7	7	41	THR	CA-C-N	5.56	130.81	122.75
7	7	41	THR	C-N-CA	5.56	130.81	122.75
26	Q	53	GLU	CA-C-O	-5.56	114.66	120.55
24	O	327	LEU	N-CA-C	5.55	117.33	111.28
33	X	105	ASN	N-CA-C	-5.55	106.50	113.28
27	R	149	ASN	CA-C-N	5.55	128.04	120.54
27	R	149	ASN	C-N-CA	5.55	128.04	120.54
10	A	246	VAL	CA-CB-CG2	-5.55	100.97	110.40
16	G	94	GLU	N-CA-C	-5.55	105.31	111.36
18	I	240	THR	N-CA-C	-5.55	106.55	113.38
19	J	56	ARG	CA-C-N	5.55	127.65	120.44
19	J	56	ARG	C-N-CA	5.55	127.65	120.44
22	M	171	GLU	N-CA-C	-5.55	100.66	109.59
35	Z	757	SER	CA-C-O	5.55	126.43	120.55
29	T	218	GLU	CA-C-O	-5.55	114.54	120.42
7	7	80	GLU	CA-C-N	5.55	125.21	119.05
7	7	80	GLU	C-N-CA	5.55	125.21	119.05
12	C	112	VAL	CA-C-O	-5.55	115.18	120.95
18	I	347	LYS	N-CA-C	-5.55	98.15	108.02
19	J	243	SER	N-CA-C	5.55	117.70	108.99
23	N	624	ALA	CA-C-N	5.55	127.98	120.44
23	N	624	ALA	C-N-CA	5.55	127.98	120.44
28	S	262	THR	CA-C-N	5.55	130.11	120.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	S	262	THR	C-N-CA	5.55	130.11	120.68
28	S	297	ILE	CA-C-N	5.55	128.59	120.71
28	S	297	ILE	C-N-CA	5.55	128.59	120.71
31	V	35	LEU	CA-C-N	5.55	128.17	120.29
31	V	35	LEU	C-N-CA	5.55	128.17	120.29
6	6	80	ALA	CA-C-N	5.54	127.65	120.44
6	6	80	ALA	C-N-CA	5.54	127.65	120.44
22	M	384	ASP	CA-C-N	5.54	130.00	122.19
22	M	384	ASP	C-N-CA	5.54	130.00	122.19
25	P	174	SER	O-C-N	5.54	128.00	122.12
35	Z	901	PHE	N-CA-C	5.54	117.32	111.28
2	2	23	GLY	O-C-N	-5.54	116.23	121.77
5	5	86	LEU	CA-C-N	5.54	128.34	120.53
5	5	86	LEU	C-N-CA	5.54	128.34	120.53
6	6	152	GLU	N-CA-C	-5.54	102.79	109.72
19	J	266	SER	CA-C-N	5.54	127.70	120.28
19	J	266	SER	C-N-CA	5.54	127.70	120.28
22	M	337	LEU	N-CA-C	-5.54	105.73	112.88
22	M	385	GLU	CA-C-O	5.54	127.87	121.28
24	O	271	LYS	N-CA-C	-5.54	100.31	108.79
17	H	228	PRO	N-CA-C	5.54	121.13	113.65
29	T	199	PHE	CA-C-O	-5.54	114.80	120.89
2	2	50	ALA	O-C-N	-5.54	115.83	122.15
11	B	89	SER	CA-C-N	5.54	127.70	120.28
11	B	89	SER	C-N-CA	5.54	127.70	120.28
23	N	271	GLU	CA-C-N	5.54	129.22	120.47
23	N	271	GLU	C-N-CA	5.54	129.22	120.47
32	W	58	ASN	CA-C-N	5.54	126.76	119.84
32	W	58	ASN	C-N-CA	5.54	126.76	119.84
3	3	150	GLU	CA-C-N	5.54	125.63	119.32
3	3	150	GLU	C-N-CA	5.54	125.63	119.32
25	P	307	GLU	CA-C-N	5.54	130.04	122.34
25	P	307	GLU	C-N-CA	5.54	130.04	122.34
33	X	64	ILE	N-CA-C	-5.54	102.06	108.82
5	5	203	GLU	O-C-N	-5.54	115.84	122.15
19	J	26	LYS	CA-C-N	5.54	128.28	120.42
19	J	26	LYS	C-N-CA	5.54	128.28	120.42
27	R	212	THR	O-C-N	5.54	127.99	122.12
20	K	138	ALA	CA-C-N	5.53	131.50	122.81
20	K	138	ALA	C-N-CA	5.53	131.50	122.81
29	T	46	ILE	O-C-N	5.53	128.50	122.63
31	V	51	GLY	CA-C-N	5.53	130.95	122.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
31	V	51	GLY	C-N-CA	5.53	130.95	122.93
25	P	334	ASN	CA-C-N	5.53	128.14	120.29
25	P	334	ASN	C-N-CA	5.53	128.14	120.29
27	R	26	VAL	CA-C-O	5.53	126.70	120.95
28	S	297	ILE	O-C-N	-5.53	117.11	122.09
3	3	55	ASN	CA-C-O	-5.53	115.02	120.82
1	1	27	ALA	O-C-N	-5.52	116.26	122.12
35	Z	82	MET	CA-C-N	5.52	131.61	122.33
35	Z	82	MET	C-N-CA	5.52	131.61	122.33
16	G	190	GLU	CA-C-N	5.52	128.23	120.28
16	G	190	GLU	C-N-CA	5.52	128.23	120.28
17	H	332	THR	CA-C-N	5.52	127.62	120.44
17	H	332	THR	C-N-CA	5.52	127.62	120.44
22	M	301	VAL	O-C-N	-5.52	115.56	121.80
27	R	406	GLN	O-C-N	-5.52	115.48	122.27
28	S	162	VAL	CA-C-O	-5.52	115.21	120.95
22	M	232	ALA	CA-C-N	5.52	127.68	120.28
22	M	232	ALA	C-N-CA	5.52	127.68	120.28
3	3	46	GLY	CA-C-N	5.52	128.60	120.82
3	3	46	GLY	C-N-CA	5.52	128.60	120.82
22	M	246	LEU	N-CA-C	-5.52	99.41	108.41
25	P	194	SER	CA-C-N	5.52	127.67	120.28
25	P	194	SER	C-N-CA	5.52	127.67	120.28
35	Z	67	SER	CA-C-N	5.52	127.61	120.44
35	Z	67	SER	C-N-CA	5.52	127.61	120.44
13	D	240	LYS	N-CA-C	-5.52	106.55	113.28
35	Z	444	GLU	CA-C-O	-5.52	114.03	119.49
20	K	282	PHE	CA-C-O	5.52	125.69	119.18
22	M	203	ARG	CA-C-N	5.52	127.67	120.28
22	M	203	ARG	C-N-CA	5.52	127.67	120.28
23	N	503	THR	CA-C-N	5.51	128.69	120.31
23	N	503	THR	C-N-CA	5.51	128.69	120.31
23	N	785	PRO	N-CA-C	-5.51	102.47	111.68
29	T	87	PRO	N-CA-C	5.51	121.09	113.65
29	T	209	LEU	CA-C-N	5.51	130.78	122.68
29	T	209	LEU	C-N-CA	5.51	130.78	122.68
21	L	177	GLU	N-CA-C	-5.51	105.77	112.88
10	A	123	ASN	O-C-N	5.51	127.96	122.12
11	B	157	PHE	O-C-N	-5.51	117.99	121.85
18	I	369	MET	N-CA-C	5.51	117.99	110.55
23	N	243	LYS	CA-C-O	-5.51	113.63	119.97
25	P	383	LEU	N-CA-C	5.51	116.97	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	S	308	GLY	CA-C-N	5.51	127.67	120.28
28	S	308	GLY	C-N-CA	5.51	127.67	120.28
29	T	205	ILE	CA-C-N	5.51	127.61	120.44
29	T	205	ILE	C-N-CA	5.51	127.61	120.44
19	J	325	ALA	N-CA-C	5.51	117.29	111.28
20	K	371	LEU	CA-C-N	5.51	128.01	120.46
20	K	371	LEU	C-N-CA	5.51	128.01	120.46
28	S	439	GLU	N-CA-C	-5.51	106.56	113.72
11	B	34	SER	N-CA-C	-5.51	100.69	109.23
14	E	17	PRO	CA-C-N	5.51	127.66	120.28
14	E	17	PRO	C-N-CA	5.51	127.66	120.28
23	N	153	ALA	N-CA-C	5.51	117.28	111.28
26	Q	56	THR	CA-C-O	-5.51	114.58	120.42
20	K	206	PRO	CA-C-O	-5.50	115.32	121.32
6	6	183	THR	CA-C-O	5.50	126.32	120.10
27	R	259	PHE	CA-C-O	-5.50	115.04	120.82
33	X	76	VAL	CB-CA-C	5.50	115.47	110.13
7	7	224	LYS	N-CA-C	-5.50	99.46	108.76
33	X	69	ILE	N-CA-C	-5.50	101.61	107.77
24	O	169	ASN	CA-C-N	5.50	127.65	120.28
24	O	169	ASN	C-N-CA	5.50	127.65	120.28
26	Q	122	ILE	CA-C-O	-5.50	114.95	121.05
6	6	197	ILE	N-CA-C	-5.50	100.47	108.17
20	K	355	THR	O-C-N	5.50	128.03	122.09
3	3	164	ASN	CA-C-O	-5.50	113.65	119.97
20	K	353	PHE	CA-C-O	-5.50	114.72	120.55
10	A	206	ALA	CA-C-N	5.49	127.59	120.56
10	A	206	ALA	C-N-CA	5.49	127.59	120.56
19	J	321	VAL	CA-C-N	5.49	127.64	120.28
19	J	321	VAL	C-N-CA	5.49	127.64	120.28
22	M	270	ALA	CA-C-O	-5.49	114.73	120.55
23	N	701	VAL	CA-C-N	5.49	127.64	120.28
23	N	701	VAL	C-N-CA	5.49	127.64	120.28
24	O	162	SER	CA-C-N	5.49	123.70	120.24
24	O	162	SER	C-N-CA	5.49	123.70	120.24
25	P	413	ASN	CA-C-N	5.49	127.91	120.44
25	P	413	ASN	C-N-CA	5.49	127.91	120.44
20	K	150	LEU	CA-C-O	-5.49	113.73	120.05
23	N	759	ILE	N-CA-C	-5.49	99.91	108.81
24	O	370	LEU	CA-C-N	5.49	127.98	120.46
24	O	370	LEU	C-N-CA	5.49	127.98	120.46
25	P	199	LEU	CA-C-N	5.49	127.64	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	P	199	LEU	C-N-CA	5.49	127.64	120.28
13	D	93	ALA	CA-C-N	5.49	130.01	120.68
13	D	93	ALA	C-N-CA	5.49	130.01	120.68
20	K	79	LEU	O-C-N	5.49	127.94	122.12
35	Z	606	CYS	CA-C-O	-5.49	115.05	120.70
35	Z	832	ARG	CA-C-N	5.49	127.64	120.28
35	Z	832	ARG	C-N-CA	5.49	127.64	120.28
35	Z	863	THR	CA-C-O	-5.49	115.36	121.51
13	D	171	VAL	O-C-N	-5.49	114.55	122.12
12	C	182	ASP	O-C-N	-5.49	116.31	122.12
23	N	156	ILE	N-CA-C	5.49	115.69	110.42
23	N	200	SER	CA-C-N	5.49	127.63	120.28
23	N	200	SER	C-N-CA	5.49	127.63	120.28
27	R	190	LYS	N-CA-C	5.49	117.34	111.36
35	Z	808	SER	CA-C-N	5.49	127.89	120.65
35	Z	808	SER	C-N-CA	5.49	127.89	120.65
30	U	88	LYS	O-C-N	5.48	129.10	122.85
23	N	113	ALA	N-CA-C	5.48	117.33	111.36
26	Q	286	TYR	N-CA-C	-5.48	105.95	113.30
31	V	105	VAL	N-CA-C	-5.48	107.64	112.90
28	S	473	ASP	CA-C-N	-5.48	112.94	120.28
28	S	473	ASP	C-N-CA	-5.48	112.94	120.28
35	Z	384	SER	CA-C-N	5.48	127.89	120.44
35	Z	384	SER	C-N-CA	5.48	127.89	120.44
17	H	60	GLU	N-CA-C	5.48	117.25	111.28
4	4	32	ASP	CA-C-N	5.48	131.69	122.76
4	4	32	ASP	C-N-CA	5.48	131.69	122.76
15	F	128	TYR	N-CA-C	5.48	117.25	111.28
16	G	56	LYS	N-CA-C	-5.48	106.48	112.72
16	G	178	LEU	O-C-N	-5.48	116.31	122.12
22	M	174	GLU	CA-C-O	-5.48	114.72	121.02
28	S	369	GLN	CA-C-N	5.48	127.56	120.44
28	S	369	GLN	C-N-CA	5.48	127.56	120.44
25	P	97	ILE	O-C-N	-5.48	116.56	121.87
13	D	82	SER	O-C-N	-5.47	116.32	122.12
23	N	565	ASN	CA-C-O	-5.47	114.62	120.42
24	O	156	THR	N-CA-C	5.47	117.25	111.28
35	Z	458	SER	CA-C-N	5.47	129.86	120.72
35	Z	458	SER	C-N-CA	5.47	129.86	120.72
16	G	188	ALA	CA-C-N	5.47	127.55	120.44
16	G	188	ALA	C-N-CA	5.47	127.55	120.44
29	T	22	ALA	CA-C-N	5.47	127.61	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	T	22	ALA	C-N-CA	5.47	127.61	120.28
33	X	37	PRO	CA-C-N	5.47	131.99	121.54
33	X	37	PRO	C-N-CA	5.47	131.99	121.54
12	C	186	VAL	N-CA-C	5.47	116.10	110.36
35	Z	286	VAL	O-C-N	-5.47	115.73	122.57
29	T	79	GLU	O-C-N	-5.47	115.92	122.15
6	6	119	VAL	N-CA-C	-5.47	106.98	112.17
26	Q	310	SER	CA-C-N	5.47	128.05	120.29
26	Q	310	SER	C-N-CA	5.47	128.05	120.29
11	B	51	SER	O-C-N	-5.46	116.93	123.27
16	G	176	GLU	CA-C-N	5.46	127.54	120.44
16	G	176	GLU	C-N-CA	5.46	127.54	120.44
23	N	678	ILE	CA-C-N	5.46	127.60	120.28
23	N	678	ILE	C-N-CA	5.46	127.60	120.28
23	N	685	VAL	O-C-N	-5.46	116.20	121.83
25	P	47	ARG	N-CA-CB	5.46	119.72	110.49
35	Z	205	LEU	CA-C-N	5.46	128.39	120.79
35	Z	205	LEU	C-N-CA	5.46	128.39	120.79
17	H	286	GLU	CA-C-N	5.46	126.01	120.00
17	H	286	GLU	C-N-CA	5.46	126.01	120.00
17	H	53	GLU	CA-C-O	-5.46	114.63	120.42
17	H	185	LEU	O-C-N	-5.46	115.04	121.32
27	R	133	ALA	O-C-N	-5.46	115.83	122.22
35	Z	487	SER	N-CA-C	-5.46	104.97	111.03
11	B	184	GLU	CA-C-O	-5.46	115.61	121.56
12	C	9	ARG	CA-C-O	-5.46	114.43	120.33
35	Z	876	VAL	N-CA-C	5.46	115.66	110.42
1	1	74	SER	N-CA-C	-5.46	102.12	110.14
6	6	75	LEU	O-C-N	-5.46	116.83	123.16
11	B	198	GLU	CA-C-N	5.46	131.56	121.52
11	B	198	GLU	C-N-CA	5.46	131.56	121.52
3	3	95	PHE	CA-C-N	5.45	130.43	122.69
3	3	95	PHE	C-N-CA	5.45	130.43	122.69
7	7	57	ARG	N-CA-C	5.45	117.22	111.28
10	A	238	ALA	CA-C-N	5.45	127.59	120.28
10	A	238	ALA	C-N-CA	5.45	127.59	120.28
19	J	309	ARG	CA-C-N	5.45	131.79	121.97
19	J	309	ARG	C-N-CA	5.45	131.79	121.97
26	Q	9	GLU	O-C-N	5.45	128.37	122.15
26	Q	63	GLN	N-CA-C	5.45	117.22	111.28
30	U	279	SER	N-CA-C	5.45	117.65	111.11
33	X	62	ASP	CA-C-N	5.45	125.21	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
33	X	62	ASP	C-N-CA	5.45	125.21	119.76
35	Z	318	LYS	CA-C-N	5.45	131.95	121.54
35	Z	318	LYS	C-N-CA	5.45	131.95	121.54
35	Z	845	LEU	CA-C-O	-5.45	115.10	120.82
2	2	99	ILE	N-CA-C	-5.45	99.79	107.75
27	R	214	TYR	CA-C-O	-5.45	114.64	120.42
29	T	217	THR	CA-C-O	5.45	126.20	120.42
35	Z	770	GLU	CA-C-N	5.45	127.53	120.44
35	Z	770	GLU	C-N-CA	5.45	127.53	120.44
2	2	192	THR	N-CA-C	-5.45	98.69	109.10
3	3	77	THR	CA-C-N	5.45	127.58	120.28
3	3	77	THR	C-N-CA	5.45	127.58	120.28
16	G	54	THR	N-CA-C	-5.45	106.56	113.43
19	J	328	LEU	CA-C-N	5.45	127.58	120.28
19	J	328	LEU	C-N-CA	5.45	127.58	120.28
29	T	266	TYR	CA-C-N	5.45	127.52	120.44
29	T	266	TYR	C-N-CA	5.45	127.52	120.44
30	U	306	VAL	CA-C-O	-5.45	115.40	121.17
35	Z	359	LYS	N-CA-C	5.45	117.02	111.14
12	C	197	LEU	CA-C-N	5.45	127.58	120.28
12	C	197	LEU	C-N-CA	5.45	127.58	120.28
25	P	30	ASN	CA-C-N	5.45	127.58	120.28
25	P	30	ASN	C-N-CA	5.45	127.58	120.28
31	V	244	MET	CA-C-N	5.45	127.92	120.46
31	V	244	MET	C-N-CA	5.45	127.92	120.46
32	W	110	ILE	CA-C-N	5.45	130.44	123.03
32	W	110	ILE	C-N-CA	5.45	130.44	123.03
5	5	122	LEU	CA-C-O	5.44	126.92	120.66
10	A	43	LEU	O-C-N	-5.44	117.04	123.25
23	N	892	PRO	CA-C-N	5.44	129.65	120.29
23	N	892	PRO	C-N-CA	5.44	129.65	120.29
26	Q	51	ARG	CA-C-O	-5.44	114.65	120.42
25	P	424	GLU	CA-C-O	-5.44	114.78	120.55
3	3	156	GLU	CA-C-N	5.44	127.83	120.65
3	3	156	GLU	C-N-CA	5.44	127.83	120.65
25	P	345	VAL	CA-C-N	5.44	127.91	120.46
25	P	345	VAL	C-N-CA	5.44	127.91	120.46
35	Z	762	GLY	CA-C-N	5.44	127.51	120.44
35	Z	762	GLY	C-N-CA	5.44	127.51	120.44
11	B	91	LYS	CA-C-N	5.44	128.14	120.42
11	B	91	LYS	C-N-CA	5.44	128.14	120.42
20	K	297	ILE	O-C-N	5.44	127.43	121.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	N	417	ARG	N-CA-C	5.44	117.63	111.11
23	N	631	GLY	N-CA-C	-5.44	107.03	114.64
1	1	161	GLN	CA-C-O	-5.44	115.10	120.70
14	E	122	ARG	CA-C-N	5.44	131.92	121.54
14	E	122	ARG	C-N-CA	5.44	131.92	121.54
17	H	419	LEU	N-CA-C	5.44	117.28	111.36
19	J	27	ILE	CA-C-N	5.44	127.51	120.44
19	J	27	ILE	C-N-CA	5.44	127.51	120.44
27	R	82	ASP	O-C-N	-5.44	117.05	123.25
12	C	23	GLU	CA-C-N	5.43	128.01	120.29
12	C	23	GLU	C-N-CA	5.43	128.01	120.29
18	I	289	THR	O-C-N	5.43	129.15	123.06
22	M	417	GLU	N-CA-C	-5.43	105.52	111.82
25	P	61	LYS	CB-CA-C	-5.43	101.77	110.79
35	Z	509	LEU	CA-C-N	5.43	126.88	120.09
35	Z	509	LEU	C-N-CA	5.43	126.88	120.09
20	K	81	ARG	CA-C-N	5.43	127.56	120.28
20	K	81	ARG	C-N-CA	5.43	127.56	120.28
20	K	162	GLY	CA-C-O	-5.43	116.18	120.91
20	K	234	PHE	N-CA-C	-5.43	100.44	109.46
27	R	180	PHE	O-C-N	5.43	127.96	122.09
33	X	37	PRO	N-CA-C	-5.43	106.63	114.18
25	P	299	LEU	CA-C-N	5.43	128.13	120.42
25	P	299	LEU	C-N-CA	5.43	128.13	120.42
18	I	104	LEU	O-C-N	5.43	129.76	123.30
27	R	211	LYS	N-CA-C	5.43	117.19	111.28
28	S	412	ASN	CA-C-N	5.43	127.82	120.44
28	S	412	ASN	C-N-CA	5.43	127.82	120.44
28	S	428	ARG	CA-C-N	5.43	128.00	120.29
28	S	428	ARG	C-N-CA	5.43	128.00	120.29
28	S	343	LEU	CA-C-N	5.42	125.25	119.28
28	S	343	LEU	C-N-CA	5.42	125.25	119.28
12	C	117	ASP	O-C-N	-5.42	116.37	122.12
4	4	19	ALA	O-C-N	-5.42	117.62	123.42
12	C	195	LYS	CA-C-N	5.42	127.54	120.28
12	C	195	LYS	C-N-CA	5.42	127.54	120.28
22	M	135	VAL	N-CA-C	-5.42	99.75	107.77
23	N	614	ASN	O-C-N	-5.42	115.38	122.59
2	2	166	ASP	N-CA-C	-5.42	98.38	108.02
12	C	231	LYS	CA-C-N	5.42	126.61	119.84
12	C	231	LYS	C-N-CA	5.42	126.61	119.84
29	T	119	THR	CA-C-N	5.42	127.54	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	T	119	THR	C-N-CA	5.42	127.54	120.28
29	T	176	SER	CA-C-O	5.42	126.51	120.82
35	Z	277	GLU	CA-C-N	5.42	127.98	120.29
35	Z	277	GLU	C-N-CA	5.42	127.98	120.29
2	2	83	LEU	O-C-N	5.41	127.94	122.09
4	4	39	PRO	CA-C-N	5.41	129.27	120.23
4	4	39	PRO	C-N-CA	5.41	129.27	120.23
15	F	204	GLU	N-CA-C	-5.41	101.08	109.14
1	1	31	THR	O-C-N	5.41	129.32	123.10
17	H	271	PHE	N-CA-C	-5.41	100.42	109.24
21	L	327	THR	CA-C-N	5.41	127.84	120.54
21	L	327	THR	C-N-CA	5.41	127.84	120.54
21	L	329	ARG	CA-C-N	5.41	127.11	120.94
21	L	329	ARG	C-N-CA	5.41	127.11	120.94
24	O	139	LEU	CA-C-N	5.41	127.47	120.44
24	O	139	LEU	C-N-CA	5.41	127.47	120.44
30	U	77	ASN	CB-CA-C	5.41	120.64	110.63
7	7	100	ASN	CA-C-N	5.41	126.56	120.66
7	7	100	ASN	C-N-CA	5.41	126.56	120.66
16	G	236	GLN	CA-C-N	5.41	127.53	120.28
16	G	236	GLN	C-N-CA	5.41	127.53	120.28
17	H	299	ARG	CA-C-N	5.41	127.79	120.44
17	H	299	ARG	C-N-CA	5.41	127.79	120.44
26	Q	371	GLN	CA-C-N	5.41	127.53	120.28
26	Q	371	GLN	C-N-CA	5.41	127.53	120.28
20	K	195	ALA	CA-C-N	5.41	128.53	120.31
20	K	195	ALA	C-N-CA	5.41	128.53	120.31
21	L	169	ASN	N-CA-C	-5.41	104.38	112.54
23	N	465	ALA	N-CA-C	5.41	116.85	111.07
23	N	667	GLN	N-CA-C	-5.41	99.50	108.75
26	Q	135	HIS	CA-C-N	5.41	127.52	120.28
26	Q	135	HIS	C-N-CA	5.41	127.52	120.28
26	Q	425	GLN	CA-C-N	5.41	127.47	120.44
26	Q	425	GLN	C-N-CA	5.41	127.47	120.44
35	Z	845	LEU	CA-C-N	5.41	127.52	120.28
35	Z	845	LEU	C-N-CA	5.41	127.52	120.28
2	2	34	LEU	CA-C-O	-5.40	114.58	120.36
23	N	93	GLU	O-C-N	-5.40	116.99	123.31
24	O	87	LYS	CA-C-N	5.40	127.96	120.29
24	O	87	LYS	C-N-CA	5.40	127.96	120.29
24	O	162	SER	O-C-N	-5.40	115.41	122.59
30	U	274	MET	O-C-N	5.40	127.63	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1	175	MET	O-C-N	5.40	129.70	123.17
27	R	101	GLU	CA-C-N	5.40	127.46	120.44
27	R	101	GLU	C-N-CA	5.40	127.46	120.44
31	V	122	ASP	N-CA-C	5.40	117.17	111.28
26	Q	73	LYS	CA-C-N	5.40	127.96	120.29
26	Q	73	LYS	C-N-CA	5.40	127.96	120.29
19	J	221	LYS	O-C-N	5.40	129.77	122.59
21	L	384	ASP	O-C-N	-5.40	116.29	121.85
22	M	357	ARG	CA-C-N	5.40	127.51	120.28
22	M	357	ARG	C-N-CA	5.40	127.51	120.28
20	K	181	LYS	N-CA-C	5.40	117.24	111.36
23	N	451	GLY	CA-C-N	5.40	127.51	120.28
23	N	451	GLY	C-N-CA	5.40	127.51	120.28
27	R	263	ARG	CA-C-N	5.40	127.51	120.28
27	R	263	ARG	C-N-CA	5.40	127.51	120.28
25	P	200	SER	N-CA-C	5.39	117.16	111.28
26	Q	217	GLU	CA-C-N	5.39	127.95	120.29
26	Q	217	GLU	C-N-CA	5.39	127.95	120.29
32	W	85	LEU	CA-C-N	-5.39	113.90	121.72
32	W	85	LEU	C-N-CA	-5.39	113.90	121.72
35	Z	241	THR	N-CA-C	-5.39	100.51	109.46
35	Z	813	PHE	O-C-N	5.39	127.63	122.07
1	1	44	CYS	CA-C-N	5.39	130.44	123.00
1	1	44	CYS	C-N-CA	5.39	130.44	123.00
5	5	125	ASP	N-CA-C	-5.39	99.31	110.80
3	3	186	VAL	CA-C-O	5.39	125.71	120.27
22	M	153	TYR	N-CA-C	5.39	118.68	111.24
26	Q	26	VAL	CA-C-N	5.39	127.50	120.28
26	Q	26	VAL	C-N-CA	5.39	127.50	120.28
16	G	6	GLY	N-CA-C	-5.39	107.67	115.27
19	J	235	VAL	N-CA-C	5.39	116.12	110.62
22	M	129	LEU	CA-C-N	5.39	126.53	120.66
22	M	129	LEU	C-N-CA	5.39	126.53	120.66
23	N	276	GLU	CA-C-N	5.39	127.77	120.44
23	N	276	GLU	C-N-CA	5.39	127.77	120.44
23	N	669	GLU	CA-C-O	5.39	127.26	121.55
23	N	672	ASN	CA-C-N	5.39	125.21	119.28
23	N	672	ASN	C-N-CA	5.39	125.21	119.28
25	P	152	LYS	CA-C-N	5.39	127.46	120.56
25	P	152	LYS	C-N-CA	5.39	127.46	120.56
17	H	214	CYS	CA-C-N	5.39	127.81	120.54
17	H	214	CYS	C-N-CA	5.39	127.81	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	K	105	GLN	O-C-N	5.39	129.32	123.13
12	C	179	ASP	N-CA-C	-5.38	106.69	113.20
23	N	700	CYS	O-C-N	5.38	127.90	122.09
25	P	265	VAL	CA-C-N	5.38	128.50	120.31
25	P	265	VAL	C-N-CA	5.38	128.50	120.31
12	C	38	ILE	CA-C-O	5.38	126.07	120.36
16	G	116	GLY	CA-C-N	5.38	128.49	120.31
16	G	116	GLY	C-N-CA	5.38	128.49	120.31
22	M	123	SER	N-CA-C	-5.38	106.48	113.16
6	6	18	THR	N-CA-C	-5.38	105.54	113.61
27	R	167	LYS	CA-C-N	5.38	128.06	120.42
27	R	167	LYS	C-N-CA	5.38	128.06	120.42
17	H	279	LEU	N-CA-C	5.38	119.10	112.54
23	N	18	ASP	CA-C-N	5.38	127.49	120.28
23	N	18	ASP	C-N-CA	5.38	127.49	120.28
26	Q	255	TYR	N-CA-C	5.38	116.95	111.14
33	X	42	GLU	CA-C-O	-5.38	114.79	120.55
25	P	36	LEU	CA-C-N	5.38	127.43	120.44
25	P	36	LEU	C-N-CA	5.38	127.43	120.44
28	S	369	GLN	O-C-N	-5.38	116.42	122.12
31	V	143	PRO	CA-C-N	5.38	127.54	120.60
31	V	143	PRO	C-N-CA	5.38	127.54	120.60
33	X	67	ILE	N-CA-C	5.38	117.62	109.12
5	5	59	LEU	CA-C-N	5.38	126.86	120.14
5	5	59	LEU	C-N-CA	5.38	126.86	120.14
11	B	245	ASP	N-CA-C	5.38	117.14	111.28
12	C	92	ARG	CA-C-N	5.38	128.06	120.42
12	C	92	ARG	C-N-CA	5.38	128.06	120.42
21	L	220	LEU	N-CA-C	-5.38	100.41	109.07
25	P	59	LEU	N-CA-C	5.38	117.89	111.71
32	W	59	PRO	N-CA-C	5.38	123.55	112.47
32	W	155	ASP	CA-C-N	5.38	127.48	120.28
32	W	155	ASP	C-N-CA	5.38	127.48	120.28
1	1	140	LYS	CA-C-O	5.38	126.12	120.42
19	J	60	ASP	CA-C-N	5.37	127.48	120.28
19	J	60	ASP	C-N-CA	5.37	127.48	120.28
21	L	145	ARG	O-C-N	-5.37	116.67	123.01
21	L	191	ARG	CA-C-N	5.37	127.48	120.28
21	L	191	ARG	C-N-CA	5.37	127.48	120.28
23	N	765	ASP	CA-C-N	5.37	129.99	122.36
23	N	765	ASP	C-N-CA	5.37	129.99	122.36
2	2	156	SER	CA-C-O	-5.37	115.18	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	9	71	LEU	CB-CA-C	-5.37	109.34	117.07
10	A	15	HIS	CA-C-N	5.37	129.97	122.23
10	A	15	HIS	C-N-CA	5.37	129.97	122.23
17	H	234	ARG	N-CA-C	5.37	116.82	111.07
23	N	650	ASP	N-CA-C	5.37	117.14	111.28
23	N	698	GLY	CA-C-N	5.37	129.68	120.71
23	N	698	GLY	C-N-CA	5.37	129.68	120.71
30	U	304	GLN	CA-C-N	5.37	127.48	120.28
30	U	304	GLN	C-N-CA	5.37	127.48	120.28
15	F	27	GLU	CA-C-N	5.37	128.01	120.28
15	F	27	GLU	C-N-CA	5.37	128.01	120.28
21	L	330	PRO	N-CA-C	-5.37	107.81	114.68
23	N	305	ASN	CA-C-N	-5.37	114.06	122.65
23	N	305	ASN	C-N-CA	-5.37	114.06	122.65
23	N	676	ALA	CA-C-N	5.37	127.47	120.28
23	N	676	ALA	C-N-CA	5.37	127.47	120.28
26	Q	8	LEU	CA-C-N	5.37	127.91	120.29
26	Q	8	LEU	C-N-CA	5.37	127.91	120.29
30	U	299	LYS	CA-C-N	5.37	127.42	120.44
30	U	299	LYS	C-N-CA	5.37	127.42	120.44
5	5	66	HIS	O-C-N	5.37	127.81	122.12
5	5	182	GLU	O-C-N	5.37	127.81	122.12
13	D	124	GLY	O-C-N	-5.37	117.98	123.35
30	U	42	ASN	CA-C-O	5.37	126.16	119.78
17	H	235	PHE	N-CA-C	5.36	117.13	111.28
6	6	185	ARG	O-C-N	-5.36	115.40	122.42
11	B	136	ILE	N-CA-C	-5.36	99.92	107.75
25	P	429	ILE	N-CA-C	5.36	115.57	110.42
28	S	238	LEU	CA-C-N	5.36	127.41	120.44
28	S	238	LEU	C-N-CA	5.36	127.41	120.44
28	S	457	PRO	O-C-N	5.36	127.97	122.18
31	V	290	ASN	N-CA-CB	5.36	117.78	110.01
4	4	69	ARG	CA-C-O	5.36	126.23	120.55
25	P	249	ALA	CA-C-O	-5.36	115.19	120.82
26	Q	60	GLU	O-C-N	5.36	127.59	122.07
25	P	126	THR	O-C-N	5.36	127.82	122.30
6	6	79	SER	O-C-N	5.36	129.19	122.23
4	4	63	ILE	CA-C-N	5.36	127.99	120.28
4	4	63	ILE	C-N-CA	5.36	127.99	120.28
14	E	23	GLN	O-C-N	5.36	127.80	122.12
19	J	391	ASN	CA-C-N	5.36	128.45	120.31
19	J	391	ASN	C-N-CA	5.36	128.45	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	S	204	ASP	N-CA-C	-5.36	104.97	112.25
35	Z	464	ASP	N-CA-C	-5.36	100.78	108.60
3	3	177	VAL	O-C-N	5.35	128.73	123.00
11	B	209	ILE	N-CA-C	-5.35	100.77	108.48
16	G	246	ILE	CB-CA-C	5.35	117.55	110.91
10	A	116	VAL	N-CA-C	-5.35	105.17	111.00
22	M	61	LYS	CB-CA-C	-5.35	101.90	110.79
28	S	454	SER	N-CA-C	-5.35	103.92	110.61
35	Z	95	THR	CA-C-O	-5.35	112.26	119.11
26	Q	117	VAL	O-C-N	5.35	127.34	121.83
11	B	111	VAL	CA-C-N	5.35	128.44	120.31
11	B	111	VAL	C-N-CA	5.35	128.44	120.31
15	F	230	VAL	CA-C-N	5.35	127.39	120.44
15	F	230	VAL	C-N-CA	5.35	127.39	120.44
17	H	405	GLU	CA-C-N	5.35	127.89	120.29
17	H	405	GLU	C-N-CA	5.35	127.89	120.29
19	J	380	GLU	CA-C-N	5.35	127.45	120.28
19	J	380	GLU	C-N-CA	5.35	127.45	120.28
23	N	783	SER	N-CA-C	-5.35	101.36	108.74
7	7	159	LYS	N-CA-C	-5.35	106.34	112.92
10	A	161	GLY	N-CA-C	-5.35	107.83	115.64
13	D	167	ASN	CA-C-N	5.35	127.44	120.28
13	D	167	ASN	C-N-CA	5.35	127.44	120.28
17	H	196	THR	O-C-N	-5.35	116.96	123.27
22	M	359	GLN	CA-C-N	5.34	127.78	120.46
22	M	359	GLN	C-N-CA	5.34	127.78	120.46
35	Z	412	GLY	CA-C-O	5.34	128.56	121.51
1	1	38	HIS	CA-C-N	5.34	127.70	120.38
1	1	38	HIS	C-N-CA	5.34	127.70	120.38
13	D	133	THR	CA-C-O	5.34	127.69	121.44
23	N	601	THR	CA-C-O	-5.34	112.69	119.31
26	Q	75	ARG	CA-C-N	5.34	127.87	120.29
26	Q	75	ARG	C-N-CA	5.34	127.87	120.29
23	N	129	ILE	CA-C-N	5.34	134.83	121.80
23	N	129	ILE	C-N-CA	5.34	134.83	121.80
27	R	190	LYS	CA-C-N	5.34	127.38	120.44
27	R	190	LYS	C-N-CA	5.34	127.38	120.44
28	S	265	SER	CA-C-N	5.34	127.43	120.28
28	S	265	SER	C-N-CA	5.34	127.43	120.28
32	W	17	ARG	CA-C-N	5.34	131.74	121.54
32	W	17	ARG	C-N-CA	5.34	131.74	121.54
11	B	31	GLY	O-C-N	5.34	127.95	122.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	5	173	GLY	N-CA-C	-5.34	100.53	113.18
21	L	385	GLY	CA-C-N	5.34	128.92	121.02
21	L	385	GLY	C-N-CA	5.34	128.92	121.02
35	Z	480	ASN	CA-C-N	5.33	126.51	119.84
35	Z	480	ASN	C-N-CA	5.33	126.51	119.84
16	G	66	ILE	N-CA-C	-5.33	100.73	108.36
21	L	355	ALA	CA-C-N	5.33	125.90	119.98
21	L	355	ALA	C-N-CA	5.33	125.90	119.98
24	O	356	ARG	CA-C-N	5.33	127.76	120.35
24	O	356	ARG	C-N-CA	5.33	127.76	120.35
26	Q	38	SER	CA-C-N	5.33	128.81	120.75
26	Q	38	SER	C-N-CA	5.33	128.81	120.75
13	D	199	LEU	N-CA-C	-5.33	106.28	112.89
18	I	421	GLU	N-CA-C	-5.33	105.47	111.28
21	L	119	VAL	N-CA-C	-5.33	100.52	108.46
26	Q	293	SER	CA-C-N	5.33	127.96	120.28
26	Q	293	SER	C-N-CA	5.33	127.96	120.28
27	R	226	GLU	CA-C-O	5.33	126.10	119.97
29	T	215	LYS	CA-C-N	5.33	127.42	120.28
29	T	215	LYS	C-N-CA	5.33	127.42	120.28
33	X	36	LYS	CA-C-O	-5.33	112.82	119.54
7	7	77	GLU	CA-C-O	5.33	128.13	120.51
27	R	203	ASP	N-CA-C	5.33	122.15	110.80
6	6	208	TYR	N-CA-C	-5.33	101.08	109.50
23	N	319	SER	CA-C-N	5.33	127.37	120.44
23	N	319	SER	C-N-CA	5.33	127.37	120.44
23	N	593	PHE	CA-C-N	5.33	127.47	120.60
23	N	593	PHE	C-N-CA	5.33	127.47	120.60
25	P	292	LYS	CA-C-O	-5.33	114.77	120.42
15	F	29	ILE	N-CA-C	-5.33	105.34	110.72
17	H	198	MET	CA-C-O	-5.33	115.71	121.36
13	D	95	SER	CA-C-N	5.33	127.85	120.29
13	D	95	SER	C-N-CA	5.33	127.85	120.29
13	D	113	VAL	CA-C-N	5.33	127.36	120.44
13	D	113	VAL	C-N-CA	5.33	127.36	120.44
23	N	308	ASN	CA-C-O	5.33	125.15	119.34
23	N	635	GLN	N-CA-C	-5.33	105.64	111.82
25	P	135	GLU	CA-C-N	5.33	127.36	120.44
25	P	135	GLU	C-N-CA	5.33	127.36	120.44
17	H	69	VAL	CA-C-N	5.32	127.41	120.28
17	H	69	VAL	C-N-CA	5.32	127.41	120.28
17	H	419	LEU	CA-C-N	5.32	127.42	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	H	419	LEU	C-N-CA	5.32	127.42	120.28
19	J	67	GLU	CA-C-O	-5.32	115.55	120.13
23	N	340	HIS	CA-C-N	5.32	128.90	121.02
23	N	340	HIS	C-N-CA	5.32	128.90	121.02
25	P	350	LEU	CA-C-O	-5.32	114.91	120.55
31	V	290	ASN	CA-C-N	5.32	127.41	120.28
31	V	290	ASN	C-N-CA	5.32	127.41	120.28
19	J	123	HIS	CA-C-O	5.32	125.83	119.60
25	P	148	LYS	CA-C-N	5.32	127.41	120.28
25	P	148	LYS	C-N-CA	5.32	127.41	120.28
29	T	202	LEU	CA-C-O	5.32	126.19	120.55
35	Z	114	SER	CA-C-N	5.32	127.41	120.28
35	Z	114	SER	C-N-CA	5.32	127.41	120.28
5	5	153	ALA	CA-C-N	5.32	127.72	120.54
5	5	153	ALA	C-N-CA	5.32	127.72	120.54
12	C	44	ILE	N-CA-C	-5.32	100.41	108.17
15	F	221	PRO	N-CA-C	-5.32	102.80	111.68
22	M	356	SER	CA-C-O	-5.32	114.78	120.42
25	P	250	ILE	CA-C-N	5.32	127.67	120.44
25	P	250	ILE	C-N-CA	5.32	127.67	120.44
32	W	86	HIS	CA-C-N	5.32	127.40	120.28
32	W	86	HIS	C-N-CA	5.32	127.40	120.28
22	M	247	ALA	CA-C-N	5.31	126.73	120.09
22	M	247	ALA	C-N-CA	5.31	126.73	120.09
23	N	277	LEU	CA-C-N	5.31	127.71	120.54
23	N	277	LEU	C-N-CA	5.31	127.71	120.54
25	P	63	VAL	CA-C-O	-5.31	115.22	120.85
25	P	281	ILE	N-CA-C	5.31	117.69	111.05
23	N	347	SER	CA-C-N	5.31	127.35	120.44
23	N	347	SER	C-N-CA	5.31	127.35	120.44
35	Z	451	ALA	N-CA-C	5.31	116.75	111.07
23	N	540	LEU	CA-C-N	5.31	130.44	121.14
23	N	540	LEU	C-N-CA	5.31	130.44	121.14
1	1	150	GLU	N-CA-C	-5.31	105.57	111.36
12	C	10	THR	O-C-N	5.31	128.47	122.20
23	N	878	GLN	N-CA-CB	-5.31	102.37	110.07
25	P	282	HIS	CA-C-N	5.31	131.68	121.54
25	P	282	HIS	C-N-CA	5.31	131.68	121.54
30	U	303	GLU	CA-C-N	5.31	127.34	120.44
30	U	303	GLU	C-N-CA	5.31	127.34	120.44
1	1	153	ASP	CA-C-O	5.31	126.18	120.55
3	3	39	HIS	N-CA-C	-5.31	106.11	112.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	I	272	GLY	CA-C-N	5.31	127.34	120.44
18	I	272	GLY	C-N-CA	5.31	127.34	120.44
21	L	234	ALA	N-CA-C	5.31	117.07	111.28
28	S	127	THR	N-CA-C	5.31	116.75	111.07
35	Z	446	GLU	CA-C-N	5.31	127.25	120.56
35	Z	446	GLU	C-N-CA	5.31	127.25	120.56
2	2	218	VAL	N-CA-C	-5.31	100.60	108.45
26	Q	250	THR	CB-CA-C	-5.31	110.47	116.63
35	Z	578	GLY	CA-C-N	5.31	127.39	120.28
35	Z	578	GLY	C-N-CA	5.31	127.39	120.28
12	C	39	MET	O-C-N	-5.30	117.28	123.27
20	K	346	ARG	CA-C-O	-5.30	114.93	120.55
23	N	778	LYS	CB-CG-CD	5.30	123.50	111.30
26	Q	26	VAL	N-CA-C	5.30	116.03	110.62
30	U	42	ASN	N-CA-C	-5.30	106.67	112.72
18	I	352	ASN	CA-C-N	5.30	126.47	119.84
18	I	352	ASN	C-N-CA	5.30	126.47	119.84
29	T	26	LEU	CA-C-N	5.30	127.36	120.26
29	T	26	LEU	C-N-CA	5.30	127.36	120.26
32	W	145	GLY	N-CA-C	-5.30	103.48	110.74
3	3	20	LEU	CA-C-N	5.30	126.89	122.17
3	3	20	LEU	C-N-CA	5.30	126.89	122.17
22	M	192	GLU	O-C-N	5.30	127.53	122.07
26	Q	28	LEU	CA-C-N	5.30	128.37	120.31
26	Q	28	LEU	C-N-CA	5.30	128.37	120.31
26	Q	70	ALA	CA-C-N	5.30	127.64	120.38
26	Q	70	ALA	C-N-CA	5.30	127.64	120.38
33	X	74	MET	CA-C-O	-5.30	115.00	121.36
6	6	161	LYS	CA-C-O	-5.30	114.83	120.23
24	O	187	SER	CA-C-N	5.30	127.38	120.28
24	O	187	SER	C-N-CA	5.30	127.38	120.28
30	U	70	HIS	O-C-N	-5.29	116.52	122.34
3	3	84	SER	O-C-N	5.29	128.78	122.27
17	H	262	ALA	CA-C-O	5.29	126.38	120.82
25	P	130	ILE	CA-C-O	5.29	125.41	120.96
35	Z	622	HIS	CA-C-N	5.29	127.37	120.28
35	Z	622	HIS	C-N-CA	5.29	127.37	120.28
12	C	65	LYS	CA-C-N	-5.29	115.64	123.05
12	C	65	LYS	C-N-CA	-5.29	115.64	123.05
12	C	83	ASP	CA-C-N	5.29	127.37	120.28
12	C	83	ASP	C-N-CA	5.29	127.37	120.28
21	L	399	GLY	CA-C-N	5.29	127.37	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	L	399	GLY	C-N-CA	5.29	127.37	120.28
4	4	131	ALA	CA-C-N	5.29	131.30	122.73
4	4	131	ALA	C-N-CA	5.29	131.30	122.73
12	C	21	GLN	CA-C-N	5.29	127.33	120.56
12	C	21	GLN	C-N-CA	5.29	127.33	120.56
22	M	338	LEU	N-CA-C	-5.29	106.22	113.30
23	N	596	LEU	CA-C-O	-5.29	114.94	120.55
32	W	170	HIS	ND1-CG-CD2	5.29	111.39	106.10
2	2	179	GLU	N-CA-C	-5.29	101.09	109.76
25	P	385	ASN	CA-C-N	5.29	127.80	120.29
25	P	385	ASN	C-N-CA	5.29	127.80	120.29
11	B	219	PRO	CA-C-N	5.29	130.82	120.99
11	B	219	PRO	C-N-CA	5.29	130.82	120.99
13	D	236	ILE	N-CA-C	-5.29	105.38	110.72
20	K	205	PRO	CA-C-O	-5.29	112.90	120.56
22	M	416	VAL	CA-C-N	5.29	128.34	120.31
22	M	416	VAL	C-N-CA	5.29	128.34	120.31
30	U	39	GLY	N-CA-C	-5.29	100.65	113.18
31	V	188	LEU	CA-C-O	-5.29	114.82	120.42
18	I	207	LEU	O-C-N	5.28	127.80	122.09
21	L	172	SER	CA-C-N	5.28	130.56	122.95
21	L	172	SER	C-N-CA	5.28	130.56	122.95
22	M	48	LEU	CA-C-N	5.28	129.59	121.19
22	M	48	LEU	C-N-CA	5.28	129.59	121.19
23	N	569	LYS	N-CA-C	5.28	116.72	111.07
25	P	266	TYR	N-CA-C	-5.28	105.69	111.82
23	N	252	GLY	CA-C-N	5.28	127.31	120.44
23	N	252	GLY	C-N-CA	5.28	127.31	120.44
23	N	415	PHE	N-CA-C	-5.28	99.55	110.80
24	O	20	PRO	N-CA-C	5.28	123.35	112.47
25	P	85	LYS	O-C-N	-5.28	115.57	122.59
27	R	237	THR	N-CA-C	-5.28	101.27	109.24
15	F	18	ARG	CA-C-N	5.28	130.15	121.39
15	F	18	ARG	C-N-CA	5.28	130.15	121.39
19	J	142	VAL	CA-C-N	5.28	125.26	120.03
19	J	142	VAL	C-N-CA	5.28	125.26	120.03
24	O	305	ILE	N-CA-C	5.28	117.23	109.63
11	B	185	LEU	O-C-N	5.28	127.71	122.12
19	J	126	LEU	CA-C-N	5.28	131.10	122.81
19	J	126	LEU	C-N-CA	5.28	131.10	122.81
22	M	354	GLU	CA-C-N	5.28	127.35	120.28
22	M	354	GLU	C-N-CA	5.28	127.35	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	N	42	GLU	CA-C-N	5.28	127.55	120.58
23	N	42	GLU	C-N-CA	5.28	127.55	120.58
23	N	548	ARG	CA-C-N	5.28	127.30	120.44
23	N	548	ARG	C-N-CA	5.28	127.30	120.44
17	H	199	THR	N-CA-C	-5.28	100.64	109.24
25	P	100	VAL	CA-C-N	5.28	127.35	120.28
25	P	100	VAL	C-N-CA	5.28	127.35	120.28
26	Q	271	MET	CA-C-N	5.28	129.53	120.72
26	Q	271	MET	C-N-CA	5.28	129.53	120.72
33	X	27	ILE	O-C-N	-5.28	115.09	121.10
20	K	294	ARG	CA-C-N	5.27	127.91	120.42
20	K	294	ARG	C-N-CA	5.27	127.91	120.42
2	2	169	SER	O-C-N	5.27	130.09	123.23
4	4	72	TYR	CA-C-O	5.27	126.93	120.60
5	5	65	LEU	CA-C-N	5.27	127.34	120.28
5	5	65	LEU	C-N-CA	5.27	127.34	120.28
7	7	211	TRP	N-CA-C	-5.27	104.50	112.99
20	K	313	LYS	N-CA-C	-5.27	101.57	109.95
24	O	145	LYS	N-CA-C	-5.27	105.61	111.36
27	R	166	ALA	N-CA-C	5.27	118.50	111.75
27	R	393	PRO	CA-C-N	5.27	127.61	120.44
27	R	393	PRO	C-N-CA	5.27	127.61	120.44
35	Z	67	SER	N-CA-C	-5.27	105.45	111.14
10	A	186	PHE	CA-C-N	5.27	127.77	120.29
10	A	186	PHE	C-N-CA	5.27	127.77	120.29
29	T	24	GLU	N-CA-C	5.27	117.03	111.28
16	G	102	TYR	CA-C-N	5.27	130.04	122.40
16	G	102	TYR	C-N-CA	5.27	130.04	122.40
17	H	351	VAL	O-C-N	-5.27	117.51	123.20
21	L	146	VAL	CA-C-O	5.27	127.20	121.67
23	N	320	SER	N-CA-C	5.27	116.71	111.07
24	O	145	LYS	CA-C-N	5.27	127.34	120.28
24	O	145	LYS	C-N-CA	5.27	127.34	120.28
25	P	117	SER	O-C-N	5.27	127.78	122.09
35	Z	59	ASP	O-C-N	5.27	129.60	122.59
18	I	181	TYR	CA-C-O	-5.27	114.15	120.10
28	S	314	ASN	N-CA-C	5.27	117.02	111.28
35	Z	789	GLN	CA-C-N	5.27	128.32	120.31
35	Z	789	GLN	C-N-CA	5.27	128.32	120.31
23	N	684	SER	CA-C-N	5.27	127.90	120.42
23	N	684	SER	C-N-CA	5.27	127.90	120.42
29	T	262	LYS	CA-C-N	5.27	127.34	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	T	262	LYS	C-N-CA	5.27	127.34	120.28
25	P	146	ILE	CA-C-O	-5.26	115.27	120.85
1	1	183	VAL	N-CA-C	-5.26	100.06	107.75
32	W	13	SER	N-CA-C	5.26	117.39	109.23
1	1	112	THR	N-CA-C	-5.26	100.60	109.07
2	2	99	ILE	O-C-N	5.26	128.78	123.20
17	H	214	CYS	N-CA-C	-5.26	106.17	112.59
19	J	315	GLU	CA-C-N	5.26	130.92	121.76
19	J	315	GLU	C-N-CA	5.26	130.92	121.76
4	4	90	SER	N-CA-C	5.26	117.92	111.82
5	5	155	TYR	CA-C-N	5.26	127.33	120.28
5	5	155	TYR	C-N-CA	5.26	127.33	120.28
23	N	615	ALA	CA-C-N	5.26	127.86	120.28
23	N	615	ALA	C-N-CA	5.26	127.86	120.28
30	U	27	THR	N-CA-C	-5.26	100.73	109.46
1	1	11	GLY	CA-C-N	5.26	130.50	122.25
1	1	11	GLY	C-N-CA	5.26	130.50	122.25
18	I	257	LEU	N-CA-CB	5.26	118.27	110.49
23	N	780	ASP	CB-CA-C	5.26	121.00	111.06
26	Q	274	LEU	CA-C-N	5.26	128.92	120.30
26	Q	274	LEU	C-N-CA	5.26	128.92	120.30
28	S	202	ASN	N-CA-C	5.26	119.66	112.88
29	T	2	PRO	N-CA-C	5.26	119.47	111.11
18	I	234	LYS	CA-C-O	-5.25	115.30	120.82
25	P	79	LEU	CA-C-O	5.25	126.12	120.55
18	I	230	THR	CA-C-N	5.25	127.27	120.44
18	I	230	THR	C-N-CA	5.25	127.27	120.44
20	K	150	LEU	CA-C-N	5.25	125.79	120.38
20	K	150	LEU	C-N-CA	5.25	125.79	120.38
22	M	288	THR	N-CA-C	5.25	118.64	111.39
10	A	80	GLY	O-C-N	-5.25	115.87	122.70
14	E	48	LEU	N-CA-C	-5.25	99.88	108.76
32	W	124	GLU	CA-C-O	5.25	125.99	120.42
31	V	192	LEU	CA-C-N	5.25	131.57	121.54
31	V	192	LEU	C-N-CA	5.25	131.57	121.54
7	7	41	THR	N-CA-C	-5.25	100.75	108.99
15	F	111	LEU	CA-C-N	5.25	127.31	120.28
15	F	111	LEU	C-N-CA	5.25	127.31	120.28
22	M	402	ALA	CA-C-N	5.25	127.26	120.44
22	M	402	ALA	C-N-CA	5.25	127.26	120.44
28	S	226	ASP	N-CA-C	-5.25	104.16	110.88
30	U	74	GLU	N-CA-C	5.25	117.68	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	Y	78	LYS	CA-C-N	5.25	127.63	120.54
34	Y	78	LYS	C-N-CA	5.25	127.63	120.54
1	1	51	ASP	CA-C-O	5.25	126.33	120.82
4	4	9	GLN	N-CA-C	5.25	117.68	111.33
26	Q	124	PHE	CA-C-N	5.25	127.83	120.28
26	Q	124	PHE	C-N-CA	5.25	127.83	120.28
28	S	130	VAL	O-C-N	-5.25	116.77	121.91
4	4	120	TYR	CA-C-N	5.24	127.74	120.29
4	4	120	TYR	C-N-CA	5.24	127.74	120.29
6	6	15	ALA	N-CA-C	-5.24	101.15	109.59
12	C	133	VAL	N-CA-C	-5.24	101.43	108.35
23	N	93	GLU	CA-C-O	5.24	126.14	120.32
2	2	105	PRO	N-CA-C	-5.24	107.19	114.27
15	F	144	LEU	N-CA-C	-5.24	100.15	109.06
24	O	83	LEU	CA-C-N	5.24	127.73	120.29
24	O	83	LEU	C-N-CA	5.24	127.73	120.29
26	Q	312	LEU	CA-C-N	5.24	127.73	120.29
26	Q	312	LEU	C-N-CA	5.24	127.73	120.29
27	R	135	ILE	CA-C-N	5.24	127.30	120.28
27	R	135	ILE	C-N-CA	5.24	127.30	120.28
35	Z	495	ILE	N-CA-C	5.24	116.01	110.72
7	7	33	ARG	N-CA-C	-5.24	104.86	113.50
10	A	61	ASP	CA-C-O	-5.24	115.27	121.66
23	N	103	SER	CA-C-N	5.24	127.82	120.28
23	N	103	SER	C-N-CA	5.24	127.82	120.28
35	Z	416	THR	O-C-N	5.24	127.46	122.07
16	G	51	LYS	N-CA-C	-5.24	100.64	109.07
16	G	196	ALA	CA-C-N	5.24	127.30	120.28
16	G	196	ALA	C-N-CA	5.24	127.30	120.28
26	Q	11	ALA	CA-C-N	5.24	127.73	120.29
26	Q	11	ALA	C-N-CA	5.24	127.73	120.29
32	W	7	VAL	CA-C-O	-5.24	116.17	121.67
35	Z	890	SER	O-C-N	-5.24	115.30	121.32
22	M	80	ALA	CA-C-O	-5.23	113.84	120.28
3	3	77	THR	N-CA-C	-5.23	105.66	111.36
10	A	120	ARG	CA-C-O	-5.23	115.31	120.70
12	C	109	GLU	O-C-N	5.23	127.67	122.12
13	D	112	TYR	CA-C-N	5.23	127.85	120.42
13	D	112	TYR	C-N-CA	5.23	127.85	120.42
19	J	52	ASN	CA-C-N	5.23	127.29	120.28
19	J	52	ASN	C-N-CA	5.23	127.29	120.28
28	S	346	TYR	O-C-N	-5.23	116.18	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	U	226	LEU	CA-C-N	5.23	126.68	120.14
30	U	226	LEU	C-N-CA	5.23	126.68	120.14
20	K	323	THR	CA-C-O	-5.23	115.80	121.87
30	U	7	LYS	N-CA-C	-5.23	99.66	110.80
35	Z	847	ILE	CA-C-N	5.23	127.72	120.29
35	Z	847	ILE	C-N-CA	5.23	127.72	120.29
5	5	21	THR	CA-C-O	5.23	127.23	121.11
5	5	197	PHE	N-CA-C	5.23	116.67	111.07
21	L	393	ASN	CA-C-N	5.23	127.28	120.28
21	L	393	ASN	C-N-CA	5.23	127.28	120.28
23	N	778	LYS	CA-C-N	5.23	128.13	120.71
23	N	778	LYS	C-N-CA	5.23	128.13	120.71
35	Z	445	PRO	CA-C-N	5.23	127.29	120.28
35	Z	445	PRO	C-N-CA	5.23	127.29	120.28
5	5	7	ARG	N-CA-C	-5.23	101.18	109.59
30	U	42	ASN	CA-C-N	5.23	130.79	122.59
30	U	42	ASN	C-N-CA	5.23	130.79	122.59
19	J	106	ASP	CA-C-N	5.22	129.14	120.94
19	J	106	ASP	C-N-CA	5.22	129.14	120.94
19	J	342	ASN	CA-C-N	5.22	128.25	120.31
19	J	342	ASN	C-N-CA	5.22	128.25	120.31
25	P	82	LEU	CA-C-N	5.22	128.25	120.31
25	P	82	LEU	C-N-CA	5.22	128.25	120.31
6	6	155	THR	N-CA-C	-5.22	107.46	113.88
12	C	99	LEU	CA-C-N	5.22	127.23	120.44
12	C	99	LEU	C-N-CA	5.22	127.23	120.44
21	L	298	ASP	CA-C-O	5.22	125.67	119.56
28	S	351	ALA	O-C-N	-5.22	116.69	122.07
3	3	98	PRO	CA-C-N	5.22	130.68	122.33
3	3	98	PRO	C-N-CA	5.22	130.68	122.33
6	6	46	ASN	CA-C-O	5.22	126.60	120.80
16	G	238	ALA	N-CA-C	5.22	117.05	111.36
11	B	190	HIS	CA-C-N	5.22	127.61	120.46
11	B	190	HIS	C-N-CA	5.22	127.61	120.46
12	C	97	ASN	CA-C-N	5.22	127.23	120.44
12	C	97	ASN	C-N-CA	5.22	127.23	120.44
14	E	206	GLN	O-C-N	-5.22	116.50	122.08
17	H	362	ASP	N-CA-C	-5.22	101.05	109.82
21	L	321	THR	O-C-N	-5.22	117.11	123.27
25	P	77	GLU	N-CA-C	5.22	117.05	111.36
28	S	303	ASN	CA-C-N	5.22	131.97	123.93
28	S	303	ASN	C-N-CA	5.22	131.97	123.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	T	146	ILE	CA-C-O	-5.22	115.32	120.85
30	U	188	ILE	CA-C-N	5.22	127.28	120.28
30	U	188	ILE	C-N-CA	5.22	127.28	120.28
21	L	245	PHE	N-CA-C	-5.22	100.73	109.24
23	N	314	LEU	CA-C-N	5.22	127.22	120.44
23	N	314	LEU	C-N-CA	5.22	127.22	120.44
25	P	108	LYS	CB-CA-C	-5.22	109.00	115.89
27	R	286	LEU	CA-C-O	-5.22	115.32	120.90
17	H	394	LYS	CA-C-N	5.21	127.69	120.29
17	H	394	LYS	C-N-CA	5.21	127.69	120.29
17	H	407	ILE	O-C-N	5.21	126.93	121.87
18	I	354	ASP	CA-C-N	5.21	127.22	120.44
18	I	354	ASP	C-N-CA	5.21	127.22	120.44
18	I	413	ALA	N-CA-C	5.21	117.71	111.71
20	K	274	VAL	CA-C-N	5.21	128.94	120.60
20	K	274	VAL	C-N-CA	5.21	128.94	120.60
27	R	385	ASN	CA-C-O	5.21	125.39	119.18
35	Z	380	ASN	CA-C-N	5.21	127.27	120.28
35	Z	380	ASN	C-N-CA	5.21	127.27	120.28
22	M	361	LEU	O-C-N	-5.21	116.21	122.15
26	Q	67	THR	O-C-N	5.21	128.09	122.15
27	R	361	VAL	CA-C-O	-5.21	115.53	120.95
21	L	282	GLU	CA-C-O	5.21	127.96	120.51
23	N	77	SER	N-CA-C	-5.21	105.52	111.14
23	N	134	THR	O-C-N	-5.21	116.70	122.07
35	Z	900	LEU	O-C-N	-5.21	115.62	122.39
12	C	116	SER	N-CA-C	-5.21	105.69	111.36
16	G	236	GLN	CA-C-O	-5.21	115.03	120.55
18	I	206	GLU	CA-C-N	5.21	127.52	120.44
18	I	206	GLU	C-N-CA	5.21	127.52	120.44
21	L	407	ARG	N-CA-C	5.21	116.98	108.76
35	Z	328	ASP	N-CA-C	5.21	121.89	110.80
6	6	22	THR	CB-CA-C	5.21	118.16	110.14
5	5	76	VAL	CA-C-N	5.20	127.25	120.28
5	5	76	VAL	C-N-CA	5.20	127.25	120.28
10	A	233	PHE	CA-C-O	-5.20	114.67	120.66
11	B	78	MET	CA-C-O	5.20	126.05	120.32
11	B	87	ASP	CA-C-O	-5.20	115.36	120.82
18	I	88	LYS	CA-C-N	5.20	127.20	120.44
18	I	88	LYS	C-N-CA	5.20	127.20	120.44
35	Z	526	ALA	O-C-N	5.20	128.13	122.20
35	Z	752	ILE	CA-C-N	5.20	125.72	120.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	Z	752	ILE	C-N-CA	5.20	125.72	120.00
4	4	171	MET	N-CA-C	-5.20	103.13	110.31
24	O	316	ALA	N-CA-C	5.20	116.95	111.28
25	P	288	ASN	CA-C-N	5.20	131.47	121.54
25	P	288	ASN	C-N-CA	5.20	131.47	121.54
26	Q	196	ALA	CA-C-O	5.20	126.06	120.55
21	L	391	ILE	N-CA-C	-5.20	105.47	110.72
35	Z	94	PRO	N-CA-C	-5.20	101.76	112.47
4	4	115	LEU	O-C-N	-5.20	117.23	123.31
29	T	180	ILE	CA-C-N	5.20	127.19	120.44
29	T	180	ILE	C-N-CA	5.20	127.19	120.44
25	P	236	GLU	N-CA-C	5.19	116.63	111.07
35	Z	927	VAL	CA-C-O	-5.19	116.49	121.63
4	4	38	SER	CB-CA-C	5.19	117.09	110.76
23	N	5	THR	CA-C-N	5.19	131.11	122.54
23	N	5	THR	C-N-CA	5.19	131.11	122.54
23	N	101	ILE	O-C-N	5.19	129.29	122.12
18	I	340	ARG	CA-C-N	5.19	126.33	119.84
18	I	340	ARG	C-N-CA	5.19	126.33	119.84
23	N	467	LYS	N-CA-C	5.19	117.68	111.71
25	P	146	ILE	N-CA-C	-5.19	105.48	110.72
19	J	275	LEU	O-C-N	-5.19	116.62	122.12
10	A	26	TYR	CA-C-O	5.19	126.05	120.55
13	D	182	LYS	CA-C-N	5.19	126.84	122.28
13	D	182	LYS	C-N-CA	5.19	126.84	122.28
21	L	316	ASP	N-CA-C	-5.19	101.24	109.96
35	Z	862	MET	N-CA-C	-5.19	101.48	109.52
3	3	101	ALA	CA-C-O	-5.18	114.38	120.60
10	A	171	THR	CA-C-N	5.18	130.01	121.87
10	A	171	THR	C-N-CA	5.18	130.01	121.87
16	G	238	ALA	CA-C-N	5.18	127.56	120.46
16	G	238	ALA	C-N-CA	5.18	127.56	120.46
21	L	110	LYS	CA-C-O	-5.18	114.94	120.75
25	P	206	LYS	N-CA-C	5.18	116.93	111.28
3	3	187	VAL	CA-C-O	5.18	126.63	120.72
25	P	432	LEU	N-CA-C	5.18	116.62	111.07
27	R	269	LYS	O-C-N	5.18	128.01	121.64
27	R	277	LEU	CA-C-O	-5.18	115.06	120.55
35	Z	53	VAL	CB-CA-C	-5.18	105.25	112.04
7	7	190	ALA	O-C-N	5.18	129.60	123.33
21	L	230	LEU	O-C-N	5.18	127.41	122.07
25	P	340	ASP	CA-C-N	5.18	127.22	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	P	340	ASP	C-N-CA	5.18	127.22	120.28
22	M	192	GLU	CA-C-O	-5.18	115.38	120.82
28	S	255	SER	CA-C-N	5.18	127.74	120.28
28	S	255	SER	C-N-CA	5.18	127.74	120.28
29	T	70	ILE	CA-C-O	-5.18	115.30	121.05
32	W	168	THR	N-CA-C	5.18	117.51	108.76
16	G	226	LEU	O-C-N	-5.18	117.18	123.03
20	K	261	ALA	CA-C-N	5.18	127.64	120.29
20	K	261	ALA	C-N-CA	5.18	127.64	120.29
35	Z	240	ASN	CA-C-N	-5.18	114.89	122.19
35	Z	240	ASN	C-N-CA	-5.18	114.89	122.19
17	H	400	ARG	N-CA-C	5.17	117.80	110.50
21	L	300	GLU	CA-C-N	5.17	127.55	120.46
21	L	300	GLU	C-N-CA	5.17	127.55	120.46
23	N	576	VAL	CA-C-O	5.17	126.25	120.71
20	K	418	ASP	N-CA-C	-5.17	101.68	109.85
29	T	212	ASN	CA-C-O	5.17	124.83	119.14
27	R	300	ASP	O-C-N	-5.17	117.27	123.27
13	D	16	HIS	N-CA-C	-5.17	101.79	109.96
23	N	422	TYR	O-C-N	-5.17	116.75	122.07
32	W	76	LEU	CA-C-N	5.17	130.87	121.41
32	W	76	LEU	C-N-CA	5.17	130.87	121.41
10	A	128	TYR	CA-C-N	5.17	128.16	120.31
10	A	128	TYR	C-N-CA	5.17	128.16	120.31
11	B	37	ILE	CA-C-O	-5.17	114.88	120.67
21	L	355	ALA	O-C-N	-5.17	116.64	122.12
32	W	111	VAL	CA-C-O	5.17	126.70	121.64
2	2	66	HIS	CA-C-N	5.17	127.16	120.44
2	2	66	HIS	C-N-CA	5.17	127.16	120.44
4	4	93	SER	N-CA-C	5.17	116.99	110.33
19	J	372	GLU	CA-C-N	5.17	129.48	122.19
19	J	372	GLU	C-N-CA	5.17	129.48	122.19
20	K	235	ILE	CB-CA-C	5.17	118.11	110.77
23	N	290	LEU	N-CA-C	5.17	119.07	112.87
27	R	132	GLN	CA-C-N	5.17	127.72	120.28
27	R	132	GLN	C-N-CA	5.17	127.72	120.28
29	T	82	PHE	CA-C-N	5.17	127.63	120.29
29	T	82	PHE	C-N-CA	5.17	127.63	120.29
30	U	169	ILE	CA-C-N	5.17	125.68	120.00
30	U	169	ILE	C-N-CA	5.17	125.68	120.00
19	J	369	ALA	CA-C-N	5.17	127.20	120.28
19	J	369	ALA	C-N-CA	5.17	127.20	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	7	218	LYS	N-CA-C	-5.16	105.33	113.02
26	Q	402	THR	CA-C-N	5.16	126.29	119.84
26	Q	402	THR	C-N-CA	5.16	126.29	119.84
26	Q	220	LEU	CA-C-N	5.16	127.62	120.29
26	Q	220	LEU	C-N-CA	5.16	127.62	120.29
11	B	44	VAL	N-CA-C	-5.16	100.88	108.11
13	D	179	TYR	N-CA-C	-5.16	100.89	108.99
20	K	182	GLN	CA-C-N	5.16	127.15	120.44
20	K	182	GLN	C-N-CA	5.16	127.15	120.44
2	2	128	GLY	CA-C-O	-5.16	117.93	122.16
26	Q	208	ILE	CA-C-O	-5.16	116.25	121.67
29	T	146	ILE	O-C-N	5.16	127.14	121.83
22	M	351	LEU	N-CA-C	-5.16	102.66	110.50
23	N	634	LEU	CA-C-O	5.16	126.63	120.70
25	P	271	SER	O-C-N	-5.16	116.71	121.30
29	T	247	ASP	CA-C-N	5.16	131.39	121.54
29	T	247	ASP	C-N-CA	5.16	131.39	121.54
31	V	239	ALA	CA-C-N	5.16	127.50	120.54
31	V	239	ALA	C-N-CA	5.16	127.50	120.54
35	Z	896	LYS	CA-C-N	5.16	128.99	121.31
35	Z	896	LYS	C-N-CA	5.16	128.99	121.31
21	L	107	GLU	CA-C-N	5.15	127.99	120.98
21	L	107	GLU	C-N-CA	5.15	127.99	120.98
20	K	276	SER	N-CA-C	5.15	116.58	111.07
27	R	40	ILE	CA-C-O	-5.15	115.39	120.85
11	B	88	LYS	CA-C-N	5.15	127.18	120.28
11	B	88	LYS	C-N-CA	5.15	127.18	120.28
19	J	186	ILE	CA-C-N	-5.15	115.46	122.93
19	J	186	ILE	C-N-CA	-5.15	115.46	122.93
28	S	138	MET	CA-C-N	5.15	127.14	120.44
28	S	138	MET	C-N-CA	5.15	127.14	120.44
6	6	210	LEU	CA-C-N	5.15	131.37	121.54
6	6	210	LEU	C-N-CA	5.15	131.37	121.54
19	J	379	GLN	CA-C-N	5.15	127.13	120.44
19	J	379	GLN	C-N-CA	5.15	127.13	120.44
28	S	137	PHE	O-C-N	-5.15	116.66	122.12
12	C	3	SER	CA-C-N	5.15	127.60	120.29
12	C	3	SER	C-N-CA	5.15	127.60	120.29
16	G	13	VAL	N-CA-C	-5.15	100.46	108.44
21	L	242	ASN	O-C-N	-5.15	116.69	123.02
32	W	45	PRO	CA-C-N	5.15	127.18	120.28
32	W	45	PRO	C-N-CA	5.15	127.18	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	2	177	VAL	CA-C-N	-5.15	115.56	123.07
2	2	177	VAL	C-N-CA	-5.15	115.56	123.07
12	C	94	HIS	CA-C-O	-5.15	115.09	120.55
20	K	65	GLU	O-C-N	5.15	127.37	122.07
6	6	20	ASN	O-C-N	-5.14	117.29	123.31
17	H	336	LEU	CA-C-N	5.14	127.51	120.46
17	H	336	LEU	C-N-CA	5.14	127.51	120.46
20	K	299	LEU	CA-C-O	-5.14	115.10	120.55
24	O	31	LYS	CA-C-N	5.14	127.59	120.29
24	O	31	LYS	C-N-CA	5.14	127.59	120.29
35	Z	619	ASP	CA-C-O	-5.14	115.10	120.55
19	J	65	LEU	N-CA-C	-5.14	107.07	113.19
20	K	280	LYS	O-C-N	5.14	128.55	123.46
20	K	400	TYR	CA-C-N	5.14	128.26	120.75
20	K	400	TYR	C-N-CA	5.14	128.26	120.75
22	M	64	ASP	CA-C-O	-5.14	115.42	120.82
24	O	322	ASP	CA-C-N	5.14	127.17	120.28
24	O	322	ASP	C-N-CA	5.14	127.17	120.28
28	S	140	LEU	CA-C-O	-5.14	115.42	120.82
31	V	140	VAL	N-CA-C	5.14	116.06	108.45
7	7	7	LYS	CA-C-O	-5.14	115.26	120.71
18	I	271	ALA	CA-C-N	5.14	126.75	120.22
18	I	271	ALA	C-N-CA	5.14	126.75	120.22
23	N	894	ARG	N-CA-C	-5.14	106.94	114.39
6	6	185	ARG	CA-C-O	5.14	125.01	119.15
25	P	64	ASP	CA-C-O	-5.14	114.97	120.42
25	P	361	THR	N-CA-C	-5.14	102.92	110.52
35	Z	595	MET	O-C-N	5.14	127.57	122.12
6	6	141	LEU	N-CA-C	-5.14	105.68	111.28
17	H	305	ILE	CA-C-O	-5.14	115.05	120.39
29	T	4	LEU	CA-C-N	5.14	131.35	121.54
29	T	4	LEU	C-N-CA	5.14	131.35	121.54
25	P	337	HIS	CA-C-N	5.14	127.16	120.28
25	P	337	HIS	C-N-CA	5.14	127.16	120.28
30	U	75	ASN	O-C-N	-5.14	116.26	122.48
23	N	390	LEU	CA-C-N	5.13	125.42	119.93
23	N	390	LEU	C-N-CA	5.13	125.42	119.93
23	N	523	LEU	CA-C-O	5.13	125.99	120.55
35	Z	257	PRO	CA-C-O	-5.13	116.67	120.73
35	Z	524	ALA	CA-C-N	5.13	128.90	120.63
35	Z	524	ALA	C-N-CA	5.13	128.90	120.63
17	H	105	ILE	N-CA-C	5.13	120.02	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	3	149	LEU	N-CA-C	-5.13	101.33	109.59
14	E	225	GLN	N-CA-C	-5.13	106.26	112.88
18	I	156	ILE	CA-C-N	5.13	129.12	120.29
18	I	156	ILE	C-N-CA	5.13	129.12	120.29
27	R	24	TYR	O-C-N	5.13	127.63	122.09
27	R	54	ILE	N-CA-C	-5.13	106.09	113.07
35	Z	841	GLU	N-CA-C	-5.13	104.36	110.41
13	D	227	GLU	O-C-N	5.13	127.35	122.07
19	J	47	GLN	CA-C-N	5.13	127.15	120.28
19	J	47	GLN	C-N-CA	5.13	127.15	120.28
23	N	83	LEU	N-CA-C	5.13	116.87	111.28
27	R	340	GLN	CA-C-O	5.13	125.69	119.38
35	Z	70	ALA	O-C-N	-5.13	116.30	122.15
20	K	138	ALA	N-CA-C	-5.13	100.81	109.07
20	K	405	SER	CA-C-O	-5.13	115.11	120.55
21	L	354	GLU	CA-C-N	5.13	127.15	120.28
21	L	354	GLU	C-N-CA	5.13	127.15	120.28
26	Q	8	LEU	CA-C-O	-5.13	115.42	120.70
29	T	231	SER	CA-C-O	-5.13	113.99	120.55
35	Z	842	GLN	CA-C-O	5.13	125.86	120.42
7	7	60	LYS	CA-C-N	5.13	127.57	120.29
7	7	60	LYS	C-N-CA	5.13	127.57	120.29
21	L	108	VAL	N-CA-C	-5.13	102.89	109.30
27	R	246	TYR	CA-C-N	5.13	127.10	120.44
27	R	246	TYR	C-N-CA	5.13	127.10	120.44
35	Z	532	HIS	N-CA-C	5.13	116.95	111.36
31	V	30	SER	N-CA-C	-5.12	102.94	110.52
2	2	58	LEU	CA-C-O	5.12	125.98	120.55
4	4	32	ASP	N-CA-C	-5.12	100.94	108.99
12	C	85	GLU	N-CA-C	5.12	116.86	111.28
19	J	50	ALA	O-C-N	-5.12	116.69	122.12
24	O	59	LEU	N-CA-C	5.12	116.86	111.28
25	P	260	VAL	N-CA-C	5.12	115.89	110.72
35	Z	51	LEU	N-CA-C	-5.12	101.84	109.11
35	Z	616	LEU	O-C-N	-5.12	116.31	122.15
2	2	45	GLY	O-C-N	-5.12	119.39	123.49
11	B	46	ALA	O-C-N	5.12	129.21	123.27
17	H	256	LYS	N-CA-C	-5.12	105.61	111.14
20	K	88	ARG	CA-C-N	5.12	128.56	120.47
20	K	88	ARG	C-N-CA	5.12	128.56	120.47
28	S	238	LEU	CA-C-O	5.12	125.98	120.55
30	U	260	ASN	N-CA-C	5.12	116.55	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	Z	319	THR	CA-C-N	5.12	131.32	121.54
35	Z	319	THR	C-N-CA	5.12	131.32	121.54
13	D	117	GLN	CA-C-O	5.12	125.85	120.42
20	K	101	GLU	CA-C-O	5.12	124.53	120.13
25	P	202	LYS	CA-C-N	5.12	128.69	120.30
25	P	202	LYS	C-N-CA	5.12	128.69	120.30
25	P	325	ASP	CA-C-N	5.12	131.31	121.54
25	P	325	ASP	C-N-CA	5.12	131.31	121.54
27	R	136	ASN	N-CA-C	5.12	116.86	111.28
18	I	113	ILE	CA-C-N	5.12	127.14	120.28
18	I	113	ILE	C-N-CA	5.12	127.14	120.28
16	G	164	THR	N-CA-C	-5.12	100.96	108.79
23	N	475	ALA	N-CA-C	5.12	116.86	111.28
28	S	331	SER	CA-C-N	5.12	127.55	120.29
28	S	331	SER	C-N-CA	5.12	127.55	120.29
14	E	81	LEU	O-C-N	-5.11	116.97	123.01
16	G	30	VAL	O-C-N	-5.11	116.58	121.90
27	R	186	TYR	CA-C-N	5.11	127.68	120.42
27	R	186	TYR	C-N-CA	5.11	127.68	120.42
31	V	139	VAL	O-C-N	-5.11	117.74	123.26
26	Q	202	ARG	N-CA-C	5.11	116.85	111.28
15	F	190	ILE	CA-C-N	5.11	127.08	120.44
15	F	190	ILE	C-N-CA	5.11	127.08	120.44
17	H	226	GLU	N-CA-C	5.11	116.54	110.97
11	B	243	ILE	CA-C-O	-5.11	115.44	120.85
22	M	194	VAL	CA-C-O	-5.11	115.76	121.17
22	M	285	ALA	N-CA-C	-5.11	105.07	113.50
26	Q	242	SER	CA-C-O	5.11	125.96	120.55
7	7	188	SER	N-CA-C	-5.11	101.43	109.50
18	I	426	ASN	N-CA-C	5.11	117.74	111.82
19	J	254	GLY	CA-C-N	5.11	128.07	120.31
19	J	254	GLY	C-N-CA	5.11	128.07	120.31
23	N	781	ALA	O-C-N	5.11	128.86	122.22
31	V	246	LYS	N-CA-C	-5.11	106.90	113.23
35	Z	72	LYS	N-CA-C	5.11	117.51	111.33
2	2	51	ASP	O-C-N	5.10	127.53	122.12
2	2	101	ALA	O-C-N	-5.10	117.00	123.17
17	H	171	GLY	CA-C-N	5.10	131.29	121.54
17	H	171	GLY	C-N-CA	5.10	131.29	121.54
23	N	727	THR	N-CA-C	5.10	116.84	111.28
26	Q	420	ASN	CA-C-N	5.10	127.07	120.44
26	Q	420	ASN	C-N-CA	5.10	127.07	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	2	176	CYS	N-CA-C	-5.10	99.79	108.26
20	K	210	LEU	CA-C-O	5.10	125.94	120.38
24	O	358	ILE	N-CA-C	5.10	119.95	109.34
26	Q	156	ALA	CA-C-O	-5.10	115.46	120.82
23	N	590	ALA	N-CA-C	5.10	117.57	111.71
2	2	192	THR	CB-CA-C	5.10	115.83	110.17
18	I	301	GLU	O-C-N	5.10	127.32	122.07
22	M	221	TYR	N-CA-C	-5.10	101.54	109.24
3	3	54	LEU	O-C-N	5.09	127.96	122.15
18	I	321	ASP	N-CA-C	-5.09	105.42	111.69
23	N	497	ALA	CA-C-O	-5.09	115.45	120.90
23	N	649	VAL	CA-C-N	5.09	127.11	120.28
23	N	649	VAL	C-N-CA	5.09	127.11	120.28
11	B	240	SER	CA-C-O	-5.09	115.15	120.55
20	K	176	GLY	N-CA-C	-5.09	108.20	115.64
31	V	101	ASP	O-C-N	5.09	129.26	122.95
35	Z	554	THR	N-CA-C	-5.09	99.81	108.26
20	K	366	ALA	N-CA-C	-5.09	99.96	110.80
24	O	324	VAL	CA-C-N	5.09	127.10	120.28
24	O	324	VAL	C-N-CA	5.09	127.10	120.28
31	V	74	SER	CA-C-N	5.09	131.39	121.41
31	V	74	SER	C-N-CA	5.09	131.39	121.41
3	3	163	LEU	CA-C-N	5.09	128.05	120.31
3	3	163	LEU	C-N-CA	5.09	128.05	120.31
21	L	417	LYS	N-CA-C	-5.09	105.81	111.36
27	R	70	TYR	N-CA-C	-5.09	103.97	111.81
31	V	289	GLU	O-C-N	5.09	127.31	122.07
32	W	104	LYS	N-CA-C	5.09	116.83	111.28
12	C	236	LYS	CA-C-O	-5.09	115.16	120.55
15	F	123	TYR	N-CA-C	5.09	117.72	111.82
21	L	75	LYS	CA-C-N	5.09	127.05	120.44
21	L	75	LYS	C-N-CA	5.09	127.05	120.44
27	R	380	VAL	O-C-N	-5.09	116.71	122.36
29	T	53	ASN	CA-C-O	-5.09	115.23	121.28
29	T	248	GLU	N-CA-C	5.09	121.64	110.80
35	Z	424	SER	CA-C-O	5.09	125.94	120.70
10	A	121	MET	N-CA-C	-5.08	105.86	111.71
17	H	319	PHE	CA-C-O	5.08	125.62	119.11
20	K	151	PRO	CA-C-O	-5.08	113.19	120.56
25	P	365	LEU	CA-C-N	5.08	127.51	120.29
25	P	365	LEU	C-N-CA	5.08	127.51	120.29
35	Z	412	GLY	CA-C-N	5.08	128.73	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	Z	412	GLY	C-N-CA	5.08	128.73	120.60
20	K	218	GLY	CA-C-N	5.08	127.04	120.44
20	K	218	GLY	C-N-CA	5.08	127.04	120.44
20	K	335	ASP	CA-C-N	5.08	129.35	122.19
20	K	335	ASP	C-N-CA	5.08	129.35	122.19
22	M	396	VAL	O-C-N	5.08	127.06	121.83
15	F	84	LEU	CA-C-N	5.08	128.03	120.31
15	F	84	LEU	C-N-CA	5.08	128.03	120.31
15	F	188	GLU	N-CA-C	5.08	116.62	111.14
35	Z	504	GLU	O-C-N	5.08	127.57	122.09
14	E	67	ILE	CA-C-O	-5.08	114.90	120.48
27	R	113	LEU	CA-C-N	5.08	127.08	120.28
27	R	113	LEU	C-N-CA	5.08	127.08	120.28
15	F	128	TYR	CA-C-O	-5.07	115.17	120.55
23	N	695	ALA	CA-C-O	5.07	125.93	120.55
29	T	39	LEU	CA-C-O	-5.07	116.00	121.38
30	U	126	LYS	N-CA-C	-5.07	107.12	113.72
35	Z	283	ALA	CA-C-O	-5.07	115.17	120.55
35	Z	484	LYS	N-CA-C	5.07	116.50	111.07
26	Q	159	ASN	CA-C-N	5.07	127.49	120.29
26	Q	159	ASN	C-N-CA	5.07	127.49	120.29
12	C	21	GLN	N-CA-C	5.07	117.54	111.71
18	I	223	GLY	O-C-N	-5.07	116.11	122.70
19	J	35	ARG	N-CA-C	-5.07	105.75	111.28
35	Z	841	GLU	CA-C-O	5.07	125.58	121.02
35	Z	988	ASP	CA-C-O	5.07	125.60	119.31
5	5	199	LYS	CA-C-N	5.07	127.41	120.46
5	5	199	LYS	C-N-CA	5.07	127.41	120.46
10	A	81	MET	CA-C-O	-5.07	114.05	120.28
15	F	223	THR	CA-C-N	5.07	129.64	123.10
15	F	223	THR	C-N-CA	5.07	129.64	123.10
17	H	198	MET	CA-C-N	-5.07	115.73	122.72
17	H	198	MET	C-N-CA	-5.07	115.73	122.72
18	I	305	THR	CA-C-O	5.07	125.79	120.42
35	Z	277	GLU	N-CA-C	-5.07	100.01	110.80
1	1	132	THR	O-C-N	5.07	127.49	122.12
3	3	61	LYS	CA-C-N	5.07	127.48	120.29
3	3	61	LYS	C-N-CA	5.07	127.48	120.29
4	4	131	ALA	O-C-N	-5.07	118.00	123.42
10	A	184	ASN	CA-C-N	5.07	127.03	120.44
10	A	184	ASN	C-N-CA	5.07	127.03	120.44
21	L	313	ASP	CA-C-N	5.07	131.34	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	L	313	ASP	C-N-CA	5.07	131.34	121.41
4	4	179	ILE	CA-C-O	-5.06	115.11	120.48
23	N	630	ALA	CA-C-N	5.06	130.74	122.69
23	N	630	ALA	C-N-CA	5.06	130.74	122.69
33	X	51	ARG	N-CA-C	-5.06	100.03	108.23
18	I	187	LEU	N-CA-C	-5.06	106.35	112.88
25	P	113	ASN	CA-C-N	5.06	128.00	120.31
25	P	113	ASN	C-N-CA	5.06	128.00	120.31
1	1	149	GLU	N-CA-C	5.06	117.18	111.11
5	5	31	VAL	O-C-N	-5.06	117.31	122.82
12	C	130	PRO	N-CA-C	-5.06	102.05	112.47
15	F	94	TYR	N-CA-C	-5.06	105.76	111.28
19	J	362	CYS	O-C-N	5.06	127.92	122.15
26	Q	135	HIS	CA-C-O	5.06	125.79	119.97
27	R	46	ALA	CA-C-N	5.06	127.06	120.28
27	R	46	ALA	C-N-CA	5.06	127.06	120.28
35	Z	275	GLN	O-C-N	5.06	128.27	122.25
18	I	111	GLU	CA-C-N	-5.06	116.92	123.19
18	I	111	GLU	C-N-CA	-5.06	116.92	123.19
23	N	868	VAL	N-CA-C	-5.06	101.32	108.65
1	1	14	LEU	N-CA-C	-5.06	101.45	109.59
6	6	31	GLU	CA-C-O	-5.06	113.23	120.16
25	P	206	LYS	CA-C-N	5.06	127.47	120.29
25	P	206	LYS	C-N-CA	5.06	127.47	120.29
35	Z	512	ILE	CA-C-N	5.06	127.47	120.29
35	Z	512	ILE	C-N-CA	5.06	127.47	120.29
4	4	89	LYS	CA-C-N	5.05	127.99	120.31
4	4	89	LYS	C-N-CA	5.05	127.99	120.31
15	F	81	ALA	CA-C-N	5.05	127.47	120.29
15	F	81	ALA	C-N-CA	5.05	127.47	120.29
18	I	184	ILE	CA-C-N	5.05	131.32	121.41
18	I	184	ILE	C-N-CA	5.05	131.32	121.41
20	K	179	MET	CA-C-O	-5.05	115.50	120.70
35	Z	823	ASN	N-CA-C	-5.05	100.93	109.07
35	Z	962	ARG	N-CA-C	5.05	117.20	110.53
4	4	71	ASP	N-CA-C	-5.05	104.67	111.54
35	Z	787	ASP	O-C-N	-5.05	115.51	121.32
2	2	208	GLY	CA-C-N	5.05	130.32	122.49
2	2	208	GLY	C-N-CA	5.05	130.32	122.49
25	P	423	LEU	CA-C-N	5.05	127.05	120.28
25	P	423	LEU	C-N-CA	5.05	127.05	120.28
31	V	234	GLU	CA-C-N	5.05	127.30	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
31	V	234	GLU	C-N-CA	5.05	127.30	120.38
35	Z	536	GLY	CA-C-O	-5.05	113.40	119.01
7	7	22	TYR	N-CA-C	-5.05	100.16	108.49
10	A	247	ALA	N-CA-C	5.05	117.52	111.71
17	H	254	THR	CA-C-O	5.05	125.39	119.28
16	G	133	VAL	O-C-N	-5.05	117.25	123.00
26	Q	409	TYR	CA-C-N	5.05	127.04	120.28
26	Q	409	TYR	C-N-CA	5.05	127.04	120.28
18	I	81	ILE	CA-C-O	5.05	126.11	120.71
21	L	362	LYS	CA-C-N	5.05	127.02	120.56
21	L	362	LYS	C-N-CA	5.05	127.02	120.56
24	O	163	ILE	O-C-N	-5.05	116.49	120.07
33	X	74	MET	CA-C-N	5.05	129.40	122.84
33	X	74	MET	C-N-CA	5.05	129.40	122.84
12	C	142	ASP	N-CA-C	-5.04	106.54	113.30
13	D	89	ALA	CA-C-O	-5.04	115.07	120.42
25	P	395	ARG	O-C-N	-5.04	115.71	120.70
26	Q	187	LYS	N-CA-C	5.04	116.86	111.36
3	3	157	THR	CA-C-N	5.04	127.37	120.46
3	3	157	THR	C-N-CA	5.04	127.37	120.46
7	7	52	MET	CA-C-N	5.04	127.54	120.28
7	7	52	MET	C-N-CA	5.04	127.54	120.28
15	F	142	ALA	CA-C-O	-5.04	115.86	121.81
16	G	40	LYS	O-C-N	-5.04	117.41	123.06
17	H	448	ASP	CA-C-N	5.04	127.45	120.29
17	H	448	ASP	C-N-CA	5.04	127.45	120.29
20	K	372	ILE	O-C-N	5.04	126.76	121.87
26	Q	237	SER	CA-C-N	5.04	127.04	120.28
26	Q	237	SER	C-N-CA	5.04	127.04	120.28
33	X	29	VAL	N-CA-C	5.04	119.83	109.34
26	Q	5	GLY	CA-C-O	5.04	126.00	120.66
35	Z	747	ALA	CA-C-N	5.04	129.10	122.30
35	Z	747	ALA	C-N-CA	5.04	129.10	122.30
21	L	312	MET	N-CA-C	5.04	116.46	111.07
13	D	6	ARG	O-C-N	5.04	128.59	122.85
26	Q	83	GLU	CA-C-O	5.04	125.45	119.10
27	R	342	LEU	CA-C-N	5.04	127.03	120.28
27	R	342	LEU	C-N-CA	5.04	127.03	120.28
11	B	70	ASP	N-CA-C	-5.04	105.84	112.94
11	B	243	ILE	N-CA-C	-5.04	105.63	110.72
14	E	65	GLU	O-C-N	-5.04	117.97	123.26
22	M	334	ASP	CA-C-O	-5.04	115.14	120.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	P	384	VAL	CA-C-N	5.04	127.03	120.28
25	P	384	VAL	C-N-CA	5.04	127.03	120.28
13	D	151	GLU	O-C-N	-5.03	116.67	121.20
25	P	60	ALA	CA-C-O	-5.03	115.22	120.55
26	Q	137	LEU	CA-C-N	5.03	129.12	120.72
26	Q	137	LEU	C-N-CA	5.03	129.12	120.72
27	R	396	LYS	N-CA-C	5.03	116.77	111.28
35	Z	55	ARG	CA-C-N	5.03	127.53	120.28
35	Z	55	ARG	C-N-CA	5.03	127.53	120.28
2	2	59	ILE	N-CA-C	5.03	115.80	110.72
9	9	17	VAL	N-CA-C	5.03	115.95	108.65
19	J	301	ASP	CA-C-N	5.03	124.72	119.64
19	J	301	ASP	C-N-CA	5.03	124.72	119.64
25	P	189	LEU	CA-C-N	5.03	127.52	120.28
25	P	189	LEU	C-N-CA	5.03	127.52	120.28
32	W	178	PRO	CA-C-N	5.03	131.15	121.54
32	W	178	PRO	C-N-CA	5.03	131.15	121.54
35	Z	564	ARG	CA-C-N	5.03	127.43	120.29
35	Z	564	ARG	C-N-CA	5.03	127.43	120.29
2	2	156	SER	CA-C-N	5.03	127.02	120.28
2	2	156	SER	C-N-CA	5.03	127.02	120.28
26	Q	180	LEU	O-C-N	-5.03	116.79	122.12
29	T	7	LEU	CA-C-N	5.03	126.98	120.44
29	T	7	LEU	C-N-CA	5.03	126.98	120.44
33	X	13	GLY	CA-C-N	5.03	128.09	120.75
33	X	13	GLY	C-N-CA	5.03	128.09	120.75
30	U	261	LEU	O-C-N	5.03	127.45	122.12
1	1	157	HIS	CA-C-N	5.03	126.97	120.44
1	1	157	HIS	C-N-CA	5.03	126.97	120.44
23	N	161	TYR	O-C-N	-5.03	116.68	122.86
25	P	404	LYS	CA-C-O	-5.03	115.99	120.56
26	Q	145	HIS	CA-C-N	5.03	126.97	120.44
26	Q	145	HIS	C-N-CA	5.03	126.97	120.44
28	S	413	LEU	CA-C-N	5.03	127.27	120.44
28	S	413	LEU	C-N-CA	5.03	127.27	120.44
31	V	240	ALA	CA-C-O	-5.03	115.52	120.90
6	6	137	ILE	CA-C-N	5.02	128.41	120.97
6	6	137	ILE	C-N-CA	5.02	128.41	120.97
29	T	56	MET	N-CA-C	5.02	116.76	111.28
20	K	393	ARG	CA-C-O	-5.02	115.10	120.42
21	L	87	LEU	CA-C-N	5.02	127.42	120.29
21	L	87	LEU	C-N-CA	5.02	127.42	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	Q	228	GLU	N-CA-C	-5.02	107.00	113.23
26	Q	298	ALA	CA-C-N	5.02	127.42	120.29
26	Q	298	ALA	C-N-CA	5.02	127.42	120.29
26	Q	394	ASN	N-CA-C	-5.02	106.84	113.12
35	Z	219	ASP	CA-C-N	5.02	127.01	120.28
35	Z	219	ASP	C-N-CA	5.02	127.01	120.28
13	D	126	VAL	O-C-N	-5.02	117.28	123.00
25	P	424	GLU	CA-C-N	5.02	127.01	120.28
25	P	424	GLU	C-N-CA	5.02	127.01	120.28
11	B	166	LYS	O-C-N	5.02	129.06	123.19
16	G	189	ARG	N-CA-C	5.02	116.44	111.07
21	L	390	ASP	CA-C-O	5.02	125.74	120.42
23	N	143	LYS	CA-C-N	5.02	127.00	120.28
23	N	143	LYS	C-N-CA	5.02	127.00	120.28
23	N	420	THR	N-CA-C	-5.02	105.70	111.07
24	O	109	LEU	N-CA-C	5.02	115.94	108.31
31	V	190	HIS	O-C-N	5.02	129.39	122.46
12	C	27	GLU	CA-C-N	5.02	127.00	120.28
12	C	27	GLU	C-N-CA	5.02	127.00	120.28
4	4	106	TYR	CA-C-N	5.02	130.30	122.17
4	4	106	TYR	C-N-CA	5.02	130.30	122.17
6	6	32	PRO	O-C-N	5.02	128.45	122.98
2	2	205	PHE	N-CA-C	-5.01	103.45	109.72
23	N	58	ARG	N-CA-C	5.01	119.59	111.37
25	P	329	PHE	CA-C-O	-5.01	115.58	121.10
29	T	270	ILE	N-CA-C	5.01	115.23	110.42
31	V	261	LEU	CA-C-N	5.01	127.00	120.28
31	V	261	LEU	C-N-CA	5.01	127.00	120.28
31	V	262	THR	O-C-N	5.01	127.44	122.12
23	N	253	LEU	O-C-N	5.01	127.23	122.07
23	N	315	ASN	O-C-N	-5.01	116.91	122.07
7	7	68	TYR	CA-C-O	-5.01	115.55	121.16
18	I	247	ILE	CA-C-N	5.01	128.74	122.48
18	I	247	ILE	C-N-CA	5.01	128.74	122.48
26	Q	370	THR	CA-C-O	5.01	125.86	120.70
1	1	108	GLY	CA-C-O	5.01	125.59	121.18
4	4	194	PHE	CA-C-N	5.01	127.40	120.29
4	4	194	PHE	C-N-CA	5.01	127.40	120.29
10	A	118	ALA	N-CA-C	-5.01	105.47	111.03
10	A	249	ALA	CA-C-N	5.01	127.92	120.31
10	A	249	ALA	C-N-CA	5.01	127.92	120.31
18	I	430	GLU	CA-C-N	5.01	127.82	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	I	430	GLU	C-N-CA	5.01	127.82	120.71
23	N	762	ARG	CA-C-O	5.01	126.70	121.19
24	O	135	ARG	CA-C-N	5.01	129.08	120.71
24	O	135	ARG	C-N-CA	5.01	129.08	120.71
29	T	53	ASN	O-C-N	5.01	129.12	122.41
12	C	209	ASP	N-CA-C	-5.01	105.90	112.41
12	C	127	GLY	CA-C-N	5.01	129.86	120.95
12	C	127	GLY	C-N-CA	5.01	129.86	120.95
24	O	157	LEU	CA-C-N	5.01	127.40	120.29
24	O	157	LEU	C-N-CA	5.01	127.40	120.29
26	Q	130	ARG	CA-C-N	5.01	130.98	121.97
26	Q	130	ARG	C-N-CA	5.01	130.98	121.97
29	T	213	ASN	CA-C-N	5.01	126.99	120.28
29	T	213	ASN	C-N-CA	5.01	126.99	120.28
30	U	297	GLN	CA-C-N	5.01	126.95	120.44
30	U	297	GLN	C-N-CA	5.01	126.95	120.44
32	W	110	ILE	N-CA-C	-5.01	101.14	108.85
10	A	163	TYR	CA-C-N	-5.00	116.50	122.11
10	A	163	TYR	C-N-CA	-5.00	116.50	122.11
18	I	216	PRO	CA-C-O	-5.00	115.88	121.23
18	I	219	VAL	N-CA-C	-5.00	100.69	108.95
23	N	707	ASN	CA-C-N	5.00	128.79	120.94
23	N	707	ASN	C-N-CA	5.00	128.79	120.94
23	N	765	ASP	CA-C-O	5.00	124.33	118.97
26	Q	196	ALA	N-CA-C	5.00	116.73	111.28
26	Q	200	ALA	CA-C-O	-5.00	115.25	120.55
6	6	105	LEU	N-CA-C	-5.00	100.89	109.24
7	7	75	ALA	CA-C-N	5.00	129.13	120.58
7	7	75	ALA	C-N-CA	5.00	129.13	120.58
10	A	28	VAL	CB-CA-C	-5.00	105.32	112.22

There are no chirality outliers.

All (73) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1	-2	LEU	Peptide
6	6	-9	GLN	Peptide
7	7	100	ASN	Peptide
7	7	33	ARG	Peptide
10	A	172	GLY	Peptide
10	A	46	ARG	Mainchain
10	A	85	GLY	Peptide

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Mol	Chain	Res	Type	Group
13	D	56	ASP	Peptide
15	F	32	GLY	Peptide
17	H	172	MET	Peptide
17	H	182	ASN	Peptide
17	H	188	PRO	Peptide
17	H	192	ASP	Peptide
17	H	204	PRO	Peptide
17	H	280	VAL	Mainchain
19	J	82	LYS	Peptide
21	L	257	GLY	Mainchain
21	L	342	ARG	Mainchain
21	L	80	ASN	Peptide
21	L	81	ILE	Peptide
22	M	251	LEU	Mainchain
22	M	58	MET	Mainchain
23	N	346	ASN	Peptide
23	N	667	GLN	Peptide
23	N	762	ARG	Sidechain
23	N	780	ASP	Peptide
23	N	889	ARG	Sidechain
23	N	892	PRO	Peptide
23	N	906	ARG	Peptide
24	O	123	GLY	Peptide
24	O	277	ILE	Peptide
25	P	319	GLU	Peptide
25	P	45	LYS	Peptide
25	P	47	ARG	Sidechain
26	Q	402	THR	Peptide
27	R	202	GLY	Peptide
27	R	381	ILE	Peptide
28	S	163	VAL	Peptide
29	T	228	ILE	Peptide
29	T	243	ALA	Peptide
30	U	113	TYR	Sidechain
30	U	125	VAL	Peptide
30	U	153	THR	Peptide
30	U	161	ILE	Peptide
30	U	229	LEU	Peptide
30	U	91	GLY	Peptide
31	V	108	TYR	Mainchain
31	V	109	HIS	Sidechain
31	V	117	TRP	Peptide

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Mol	Chain	Res	Type	Group
31	V	216	LEU	Peptide
31	V	283	THR	Mainchain
31	V	46	PRO	Peptide
32	W	109	ARG	Peptide,Sidechain
32	W	13	SER	Peptide
32	W	153	LEU	Mainchain
32	W	168	THR	Peptide
32	W	175	THR	Peptide
32	W	181	LEU	Peptide
32	W	21	PHE	Peptide
32	W	38	GLN	Mainchain
32	W	53	SER	Peptide
32	W	71	LYS	Peptide
33	X	118	ASP	Peptide
33	X	13	GLY	Peptide
33	X	27	ILE	Peptide
35	Z	134	SER	Mainchain
35	Z	328	ASP	Peptide
35	Z	523	ALA	Peptide
35	Z	539	ASN	Peptide
35	Z	60	ASP	Peptide
35	Z	822	THR	Peptide
35	Z	958	ASN	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	1576	0	1555	204	0
2	2	1692	0	1699	96	0
3	3	1581	0	1574	105	0
4	4	1585	0	1590	93	0
5	5	1646	0	1595	128	0
6	6	1757	0	1711	86	0
7	7	1824	0	1832	155	0
8	8	3008	0	2929	214	0
9	9	601	0	624	153	0
10	A	1921	0	1909	165	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	B	1915	0	1929	145	0
12	C	1913	0	1914	150	0
13	D	1899	0	1908	110	0
14	E	1867	0	1841	163	0
15	F	1795	0	1797	181	0
16	G	1900	0	1889	198	0
17	H	2792	0	2878	344	0
18	I	2822	0	2869	291	0
19	J	2928	0	3054	364	0
20	K	3019	0	3079	421	0
21	L	2853	0	2925	289	0
22	M	2866	0	2936	290	0
23	N	6562	0	6625	486	0
24	O	3182	0	3207	615	0
25	P	3401	0	3483	325	0
26	Q	3471	0	3494	363	0
27	R	3218	0	3216	412	0
28	S	2893	0	2937	251	0
29	T	2235	0	2206	311	0
30	U	2061	0	2116	383	0
31	V	1942	0	1954	259	0
32	W	1534	0	1539	208	0
33	X	1032	0	1017	182	0
34	Y	168	0	153	17	0
35	Z	6289	0	6233	628	0
All	All	83748	0	84217	7569	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 45.

All (7569) 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)
35:Z:321:PHE:CZ	35:Z:350:GLY:HA2	1.23	1.67
8:8:320:LYS:HE3	17:H:164:SER:CB	1.22	1.66
24:O:373:TRP:CD1	30:U:200:LEU:HD21	1.29	1.65
26:Q:243:PHE:HZ	26:Q:287:THR:CA	1.07	1.64
24:O:373:TRP:HD1	30:U:200:LEU:CD2	1.02	1.61
8:8:444:GLU:CG	9:9:74:ARG:HD2	1.30	1.61
35:Z:321:PHE:CE1	35:Z:350:GLY:HA2	1.26	1.61
26:Q:243:PHE:CZ	26:Q:287:THR:CA	1.79	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:8:330:LEU:HD12	17:H:166:THR:CG2	1.13	1.60
20:K:200:GLN:CG	27:R:204:TRP:HH2	1.15	1.60
8:8:330:LEU:CD1	17:H:166:THR:HG21	1.25	1.60
24:O:258:LEU:CD2	24:O:287:LEU:HD21	1.25	1.58
19:J:69:GLY:CA	20:K:144:ASN:HD21	1.16	1.58
23:N:399:PHE:CE1	23:N:441:VAL:HG21	1.36	1.58
20:K:200:GLN:CB	27:R:204:TRP:CZ2	1.76	1.57
24:O:306:ARG:HD2	24:O:351:SER:C	1.28	1.57
31:V:117:TRP:HE1	31:V:196:TYR:CB	0.99	1.57
26:Q:14:LEU:CD1	26:Q:26:VAL:HG21	1.33	1.56
29:T:197:TYR:CD2	29:T:235:PHE:CE1	1.90	1.56
18:I:281:ILE:CG2	18:I:284:ILE:HD11	1.35	1.56
21:L:252:VAL:CG1	22:M:256:ILE:CD1	1.80	1.54
29:T:197:TYR:CE2	29:T:235:PHE:CE1	1.92	1.54
20:K:200:GLN:HB3	27:R:204:TRP:CZ2	1.03	1.53
19:J:219:VAL:HB	20:K:281:ARG:CD	1.36	1.52
20:K:200:GLN:HB3	27:R:204:TRP:CH2	1.39	1.52
24:O:79:VAL:CG2	24:O:122:HIS:HA	1.40	1.51
24:O:210:ARG:HH21	24:O:242:ILE:CA	1.14	1.51
26:Q:243:PHE:CZ	26:Q:287:THR:HA	1.00	1.51
4:4:66:TYR:CE1	4:4:74:LEU:HD21	1.45	1.50
24:O:124:ASP:CG	24:O:127:LEU:HD13	1.34	1.50
20:K:200:GLN:CG	27:R:204:TRP:CH2	1.94	1.49
8:8:320:LYS:CE	17:H:164:SER:CB	1.75	1.49
30:U:275:VAL:HG11	31:V:251:TYR:CE1	1.46	1.49
23:N:399:PHE:CE1	23:N:441:VAL:CG2	1.95	1.48
24:O:373:TRP:CD1	30:U:200:LEU:CD2	1.83	1.48
8:8:329:ILE:CA	17:H:163:VAL:CG2	1.88	1.48
29:T:193:THR:HG21	29:T:226:TRP:CH2	1.48	1.48
20:K:364:PRO:HB3	26:Q:247:HIS:CE1	1.45	1.47
23:N:399:PHE:CD1	23:N:441:VAL:HG21	1.47	1.47
8:8:319:TRP:H	9:9:71:LEU:CD2	1.27	1.46
35:Z:321:PHE:CZ	35:Z:350:GLY:CA	1.91	1.46
24:O:277:ILE:CG2	24:O:279:ILE:H	1.27	1.46
24:O:277:ILE:HG21	24:O:279:ILE:CG1	1.44	1.45
35:Z:189:ALA:HB1	35:Z:193:PHE:CB	1.46	1.45
18:I:340:ARG:HH12	18:I:343:ARG:CG	1.27	1.45
31:V:118:LEU:CD1	31:V:140:VAL:HB	1.45	1.44
19:J:336:ASN:HD22	27:R:204:TRP:NE1	1.16	1.44
23:N:406:TYR:CE1	23:N:448:LEU:HD13	1.50	1.43
8:8:283:LYS:N	9:9:12:THR:HB	1.22	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O:210:ARG:NH2	24:O:242:ILE:CA	1.72	1.43
35:Z:193:PHE:CD2	35:Z:196:SER:HB2	1.49	1.43
10:A:57:LYS:HE2	10:A:69:VAL:CG1	1.43	1.43
20:K:210:LEU:CD2	20:K:212:TYR:CE2	2.00	1.42
20:K:364:PRO:CB	26:Q:247:HIS:CE1	2.02	1.42
29:T:193:THR:CG2	29:T:226:TRP:CH2	2.00	1.42
25:P:132:VAL:CA	25:P:171:MET:HE2	1.35	1.42
35:Z:134:SER:N	35:Z:134:SER:CA	1.78	1.42
30:U:275:VAL:HG11	31:V:251:TYR:CZ	1.55	1.41
24:O:153:LEU:CD1	24:O:174:THR:HG21	1.47	1.41
21:L:309:LEU:CD2	21:L:342:ARG:HD3	1.51	1.41
24:O:250:TRP:CZ2	24:O:270:ILE:HG23	1.56	1.41
35:Z:133:ASP:HA	35:Z:137:TYR:CD1	1.56	1.41
21:L:161:ARG:NH2	21:L:261:ARG:HH12	1.04	1.41
26:Q:243:PHE:CE1	26:Q:287:THR:HA	1.52	1.40
20:K:210:LEU:HD21	20:K:212:TYR:CZ	1.55	1.40
24:O:277:ILE:CG2	24:O:279:ILE:HG12	1.52	1.40
8:8:444:GLU:CB	9:9:74:ARG:CD	2.00	1.39
8:8:329:ILE:HA	17:H:163:VAL:CG2	0.92	1.39
8:8:444:GLU:OE1	9:9:74:ARG:CD	1.70	1.39
17:H:172:MET:HE3	18:I:129:TYR:CD2	1.56	1.39
25:P:425:HIS:CD2	30:U:225:ILE:HG23	1.56	1.39
27:R:422:ARG:NH1	28:S:301:PRO:HB3	1.33	1.39
24:O:80:LYS:HE2	24:O:81:TYR:CZ	1.55	1.39
3:3:59:ARG:NH2	12:C:99:LEU:HD11	1.34	1.38
19:J:69:GLY:N	20:K:144:ASN:ND2	1.69	1.38
22:M:257:GLY:C	22:M:258:GLU:N	1.81	1.38
16:G:146:HIS:HB3	16:G:148:TYR:CE1	1.57	1.38
20:K:200:GLN:CA	27:R:204:TRP:HZ2	1.37	1.38
8:8:319:TRP:N	9:9:71:LEU:CD2	1.81	1.38
18:I:281:ILE:HG21	18:I:284:ILE:CD1	1.54	1.38
19:J:219:VAL:HG11	20:K:284:ALA:CA	1.52	1.38
32:W:37:PHE:CE1	32:W:49:VAL:HG11	1.59	1.38
1:1:75:THR:HG22	1:1:111:TYR:CD1	1.59	1.37
30:U:189:ARG:HH12	31:V:296:LEU:CD2	1.36	1.37
32:W:5:ALA:HB2	32:W:103:ASN:ND2	1.38	1.37
14:E:157:HIS:CE1	14:E:172:ILE:HG21	1.58	1.37
19:J:69:GLY:CA	20:K:144:ASN:ND2	1.84	1.37
11:B:179:TRP:CD1	11:B:183:LEU:HD13	1.58	1.36
29:T:150:ARG:NH2	29:T:151:TRP:CZ2	1.92	1.36
8:8:444:GLU:HB3	9:9:74:ARG:CD	1.33	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:F:201:LEU:HD12	15:F:206:LEU:CD1	1.52	1.36
20:K:134:SER:CB	20:K:255:ARG:HH21	1.37	1.36
27:R:308:LEU:HD12	27:R:334:ARG:CZ	1.54	1.36
29:T:1:MET:HB3	29:T:2:PRO:CD	1.55	1.36
29:T:32:ILE:O	29:T:35:ILE:HG22	1.26	1.36
29:T:82:PHE:HE1	29:T:109:TYR:CD2	1.41	1.36
1:1:75:THR:CG2	1:1:111:TYR:HD1	1.37	1.35
23:N:25:LEU:CD1	23:N:57:ASP:HB2	1.54	1.35
27:R:308:LEU:HD12	27:R:334:ARG:NH1	1.08	1.35
8:8:318:PHE:C	9:9:71:LEU:HD23	1.48	1.35
8:8:326:LYS:HZ1	9:9:74:ARG:CZ	1.38	1.35
17:H:172:MET:CE	18:I:129:TYR:HD2	1.37	1.35
18:I:174:ASP:OD1	19:J:282:PHE:HB2	1.26	1.35
29:T:82:PHE:CE1	29:T:109:TYR:CD2	2.11	1.35
27:R:308:LEU:HB2	27:R:334:ARG:NH2	1.38	1.34
17:H:172:MET:CE	18:I:129:TYR:CD2	2.09	1.34
28:S:371:LEU:HD13	28:S:380:CYS:SG	1.68	1.34
8:8:116:ASN:HA	9:9:76:GLZ:C	1.53	1.34
27:R:422:ARG:HH12	28:S:301:PRO:CB	1.39	1.34
8:8:212:GLU:OE2	9:9:42:ARG:HD3	1.19	1.33
19:J:219:VAL:CB	20:K:281:ARG:HD3	1.57	1.33
29:T:197:TYR:CE2	29:T:235:PHE:CD1	2.14	1.33
18:I:340:ARG:NH1	18:I:343:ARG:CG	1.86	1.33
21:L:180:PHE:CD2	21:L:238:THR:OG1	1.82	1.33
20:K:210:LEU:HD21	20:K:212:TYR:CE2	1.62	1.33
8:8:320:LYS:CE	17:H:164:SER:HB3	0.87	1.33
21:L:161:ARG:HH21	21:L:261:ARG:NH1	1.25	1.33
27:R:308:LEU:CD1	27:R:334:ARG:CZ	2.07	1.33
30:U:275:VAL:CG1	31:V:251:TYR:CE1	2.11	1.33
35:Z:471:LEU:HA	35:Z:497:PHE:CZ	1.63	1.32
20:K:200:GLN:CB	27:R:204:TRP:CH2	1.95	1.32
26:Q:61:LEU:HB3	26:Q:65:TYR:CZ	1.64	1.32
16:G:140:VAL:CG2	16:G:220:LEU:HD21	1.60	1.32
18:I:100:ARG:O	18:I:104:LEU:CD1	1.77	1.32
27:R:208:ASN:ND2	27:R:238:PHE:HD1	1.28	1.32
13:D:96:HIS:CD2	13:D:100:LEU:HD12	1.66	1.31
18:I:175:LYS:O	19:J:282:PHE:CZ	1.83	1.31
11:B:158:PRO:O	12:C:57:LEU:HD12	1.15	1.31
20:K:200:GLN:CD	27:R:204:TRP:HH2	1.38	1.31
23:N:399:PHE:HE1	23:N:441:VAL:CG2	1.36	1.31
26:Q:135:HIS:ND1	26:Q:161:LEU:HD23	1.44	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:L:252:VAL:HG12	22:M:256:ILE:CD1	0.83	1.31
27:R:208:ASN:ND2	27:R:238:PHE:CD1	1.99	1.31
29:T:197:TYR:CD1	29:T:198:ASP:N	1.95	1.30
8:8:444:GLU:OE1	9:9:74:ARG:NE	1.62	1.30
35:Z:318:LYS:NZ	35:Z:459:ALA:O	1.62	1.30
35:Z:924:LYS:HB2	35:Z:959:HIS:CE1	1.64	1.30
8:8:264:HIS:CE1	9:9:10:GLY:HA2	1.64	1.30
8:8:319:TRP:N	9:9:71:LEU:HD23	1.35	1.30
23:N:21:LYS:HG3	23:N:55:PHE:CD2	1.66	1.30
31:V:117:TRP:NE1	31:V:196:TYR:HB3	0.97	1.30
8:8:212:GLU:OE2	9:9:42:ARG:CD	1.80	1.29
17:H:99:VAL:HG22	17:H:173:ARG:NH2	1.45	1.29
24:O:79:VAL:CB	24:O:122:HIS:HA	1.61	1.29
35:Z:610:GLY:CA	35:Z:748:LEU:HD13	1.63	1.29
1:1:122:LEU:HD11	7:7:28:PHE:CE1	1.68	1.29
24:O:76:LEU:HD22	24:O:121:ASP:OD1	1.31	1.29
6:6:91:LYS:HD2	6:6:96:TYR:OH	1.15	1.28
24:O:80:LYS:HE2	24:O:81:TYR:CE2	1.69	1.28
1:1:75:THR:CG2	1:1:111:TYR:CD1	2.12	1.28
21:L:252:VAL:CG1	22:M:256:ILE:HD12	1.41	1.28
24:O:373:TRP:HZ3	30:U:233:PHE:CB	1.45	1.28
24:O:373:TRP:CZ3	30:U:233:PHE:HB3	1.66	1.28
30:U:223:HIS:CE1	30:U:224:THR:OG1	1.87	1.28
35:Z:318:LYS:HE2	35:Z:496:ALA:O	1.31	1.28
8:8:329:ILE:CA	17:H:163:VAL:HG21	1.52	1.27
22:M:289:LYS:NZ	22:M:302:GLN:HE22	1.32	1.27
35:Z:321:PHE:CE1	35:Z:350:GLY:CA	2.08	1.27
18:I:340:ARG:NH1	18:I:343:ARG:HG3	0.96	1.27
24:O:306:ARG:HD3	24:O:350:ILE:O	1.18	1.27
18:I:100:ARG:O	18:I:104:LEU:HD11	1.31	1.27
26:Q:14:LEU:CD1	26:Q:26:VAL:CG2	2.13	1.26
22:M:75:LEU:CD1	22:M:77:TYR:CE1	2.18	1.26
25:P:303:PHE:O	25:P:348:HIS:NE2	1.68	1.26
27:R:125:GLU:CD	27:R:126:GLY:H	1.44	1.26
10:A:19:PHE:CZ	11:B:128:ARG:NH1	2.04	1.26
17:H:99:VAL:CG2	17:H:173:ARG:HH21	1.48	1.26
8:8:444:GLU:CD	9:9:74:ARG:HD2	1.61	1.25
30:U:275:VAL:CG1	31:V:251:TYR:HE1	1.45	1.25
11:B:158:PRO:O	12:C:57:LEU:CD1	1.83	1.25
24:O:124:ASP:OD2	24:O:127:LEU:HD13	1.35	1.25
19:J:219:VAL:CG1	20:K:284:ALA:HA	1.64	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:K:210:LEU:HD21	20:K:212:TYR:OH	1.31	1.25
21:L:309:LEU:HD22	21:L:342:ARG:NE	1.50	1.25
22:M:75:LEU:HD11	22:M:77:TYR:CE1	1.71	1.25
31:V:261:LEU:CD2	31:V:283:THR:HG21	1.64	1.25
14:E:125:GLU:OE1	15:F:123:TYR:CE1	1.90	1.25
20:K:364:PRO:CA	26:Q:247:HIS:CE1	2.20	1.25
19:J:219:VAL:O	20:K:281:ARG:HD2	1.25	1.25
21:L:259:SER:CB	21:L:303:ARG:HH22	1.48	1.25
28:S:256:LYS:O	28:S:259:TYR:CE2	1.90	1.25
29:T:197:TYR:CZ	29:T:235:PHE:HD1	1.53	1.25
19:J:193:THR:HB	19:J:316:PHE:CZ	1.72	1.24
30:U:56:PHE:CD1	30:U:68:LEU:HD21	1.70	1.24
32:W:5:ALA:CB	32:W:103:ASN:HD22	1.48	1.24
35:Z:321:PHE:CZ	35:Z:350:GLY:C	2.16	1.24
19:J:219:VAL:HG21	20:K:284:ALA:CA	1.65	1.24
26:Q:202:ARG:NH2	26:Q:222:SER:OG	1.68	1.24
27:R:308:LEU:CD1	27:R:334:ARG:NH1	1.99	1.24
16:G:140:VAL:HG21	16:G:220:LEU:CD2	1.68	1.24
32:W:21:PHE:CE1	32:W:144:PHE:CZ	2.26	1.24
18:I:252:LEU:N	18:I:253:ILE:N	1.86	1.23
28:S:211:ARG:NH2	28:S:240:ASP:HB3	1.52	1.23
1:1:19:ARG:NH1	1:1:29:ARG:HG3	1.53	1.23
17:H:286:GLU:OE2	17:H:289:ARG:NH2	1.70	1.23
23:N:277:LEU:CD1	23:N:290:LEU:CD1	2.15	1.23
24:O:79:VAL:CG1	24:O:121:ASP:O	1.85	1.23
24:O:118:GLY:O	24:O:166:ARG:CG	1.86	1.23
31:V:117:TRP:CE2	31:V:196:TYR:HB3	1.72	1.23
8:8:264:HIS:ND1	9:9:10:GLY:HA2	1.53	1.23
27:R:175:ALA:O	27:R:179:PHE:HD1	1.19	1.23
3:3:96:VAL:O	3:3:117:LEU:HD12	1.32	1.23
8:8:117:THR:N	9:9:76:GLZ:O	1.70	1.23
20:K:364:PRO:CA	26:Q:247:HIS:HE1	1.49	1.23
27:R:304:TYR:CE1	27:R:308:LEU:HD11	1.72	1.23
22:M:368:MET:SD	22:M:395:THR:CG2	2.26	1.23
24:O:43:GLU:OE2	24:O:44:SER:HB2	1.32	1.23
30:U:21:HIS:CE1	30:U:53:ALA:HB1	1.72	1.23
20:K:349:ARG:NH1	20:K:377:SER:H	1.34	1.22
24:O:79:VAL:HG21	24:O:122:HIS:CA	1.69	1.22
32:W:59:PRO:HG2	32:W:93:ILE:CG1	1.68	1.22
23:N:421:ASP:HA	23:N:424:LYS:NZ	1.53	1.22
22:M:77:TYR:HE2	22:M:159:LEU:CD1	1.52	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O:306:ARG:HD2	24:O:351:SER:O	1.35	1.22
35:Z:924:LYS:CB	35:Z:959:HIS:CE1	2.23	1.22
22:M:385:GLU:HB3	22:M:426:LYS:NZ	1.55	1.21
29:T:197:TYR:CD2	29:T:235:PHE:CD1	2.26	1.21
32:W:21:PHE:HE1	32:W:144:PHE:CZ	1.57	1.21
20:K:210:LEU:CD2	20:K:212:TYR:HE2	1.40	1.21
22:M:75:LEU:CG	22:M:77:TYR:CE1	2.23	1.21
18:I:175:LYS:O	19:J:282:PHE:CE1	1.94	1.21
31:V:92:MET:HG3	31:V:101:ASP:OD1	1.40	1.21
33:X:75:TRP:CD1	33:X:87:PHE:CE1	2.29	1.21
35:Z:81:SER:O	35:Z:82:MET:HG3	1.37	1.21
18:I:400:GLY:HA3	19:J:179:ILE:CG1	1.70	1.21
22:M:289:LYS:HZ2	22:M:302:GLN:NE2	1.38	1.21
29:T:216:GLU:O	29:T:220:PHE:HD1	1.23	1.21
8:8:116:ASN:C	9:9:76:GLZ:O	1.82	1.21
20:K:364:PRO:HA	26:Q:247:HIS:CE1	1.75	1.21
24:O:119:SER:O	24:O:166:ARG:NH1	1.71	1.21
24:O:230:PHE:CE1	24:O:251:LEU:HG	1.74	1.21
25:P:425:HIS:CG	30:U:225:ILE:HG23	1.75	1.21
19:J:60:ASP:OD1	19:J:63:ARG:NH2	1.73	1.20
22:M:75:LEU:HG	22:M:77:TYR:CE1	1.77	1.20
23:N:24:ALA:O	23:N:28:ILE:HG12	1.38	1.20
35:Z:189:ALA:CB	35:Z:193:PHE:CB	2.18	1.20
8:8:330:LEU:CD1	17:H:166:THR:CG2	1.96	1.20
27:R:415:GLN:CG	28:S:471:LEU:HD21	1.71	1.20
28:S:157:GLU:OE2	28:S:160:ARG:NH2	1.72	1.20
17:H:172:MET:HE2	18:I:129:TYR:HB2	1.23	1.20
23:N:25:LEU:HD11	23:N:57:ASP:CB	1.70	1.20
35:Z:237:VAL:HG12	35:Z:245:VAL:CG1	1.71	1.20
8:8:444:GLU:CG	9:9:74:ARG:CD	2.14	1.19
25:P:349:ASN:O	25:P:353:ILE:HG12	1.42	1.19
27:R:137:LEU:CD1	27:R:141:TYR:HE2	1.55	1.19
35:Z:189:ALA:HB1	35:Z:193:PHE:HB2	1.20	1.19
22:M:75:LEU:HG	22:M:77:TYR:CD1	1.74	1.19
24:O:42:SER:O	24:O:46:THR:CB	1.90	1.19
24:O:306:ARG:CD	24:O:351:SER:C	2.14	1.19
29:T:197:TYR:CZ	29:T:235:PHE:CD1	2.30	1.19
32:W:40:LYS:HE3	32:W:47:ASN:HB3	1.23	1.19
19:J:193:THR:HG21	19:J:316:PHE:CE1	1.75	1.19
20:K:244:HIS:CE1	20:K:250:GLY:HA3	1.76	1.19
35:Z:321:PHE:HZ	35:Z:350:GLY:C	1.47	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:Z:767:TYR:CD2	35:Z:772:ILE:HG13	1.76	1.19
24:O:62:TYR:CE2	24:O:82:LEU:HD22	1.77	1.19
30:U:273:LEU:HD11	30:U:277:TYR:OH	1.41	1.19
35:Z:429:ASN:O	35:Z:430:LEU:HG	1.41	1.19
20:K:113:THR:HA	20:K:252:ARG:NH1	1.56	1.19
22:M:50:ARG:HB3	32:W:73:LEU:HD13	1.20	1.19
30:U:56:PHE:HD1	30:U:68:LEU:CD2	1.54	1.19
20:K:281:ARG:HH12	20:K:287:GLY:CA	1.55	1.18
23:N:14:ARG:NH2	23:N:42:GLU:OE2	1.73	1.18
16:G:140:VAL:HG21	16:G:220:LEU:HD21	1.20	1.18
19:J:193:THR:CB	19:J:316:PHE:CZ	2.26	1.18
35:Z:146:PHE:C	35:Z:210:TYR:OH	1.87	1.18
3:3:18:LEU:HD11	3:3:177:VAL:CG1	1.74	1.18
32:W:146:GLU:O	32:W:147:ILE:CG1	1.91	1.18
13:D:203:VAL:O	13:D:204:GLN:OE1	1.62	1.18
21:L:309:LEU:HD22	21:L:342:ARG:CD	1.73	1.18
29:T:89:TYR:OH	29:T:102:LYS:NZ	1.77	1.18
35:Z:471:LEU:HG	35:Z:497:PHE:CE2	1.78	1.18
8:8:212:GLU:OE1	9:9:72:ARG:HD3	1.44	1.17
24:O:373:TRP:CZ3	30:U:233:PHE:CB	2.24	1.17
35:Z:924:LYS:HA	35:Z:959:HIS:ND1	1.57	1.17
24:O:118:GLY:O	24:O:166:ARG:HD3	1.43	1.17
24:O:232:GLU:O	24:O:236:HIS:HB2	1.43	1.17
30:U:189:ARG:NH1	31:V:296:LEU:HD22	1.58	1.17
8:8:208:GLN:N	9:9:75:GLY:O	1.78	1.17
20:K:364:PRO:HB3	26:Q:247:HIS:NE2	1.60	1.17
30:U:21:HIS:CE1	30:U:53:ALA:CB	2.26	1.17
32:W:120:ASP:C	32:W:121:SER:N	2.02	1.17
35:Z:218:GLU:HB2	35:Z:248:TYR:CZ	1.79	1.17
19:J:224:GLY:C	19:J:225:GLU:N	2.03	1.17
26:Q:135:HIS:ND1	26:Q:161:LEU:CD2	2.08	1.17
28:S:188:TYR:OH	28:S:210:LEU:HD22	1.45	1.17
29:T:1:MET:CB	29:T:2:PRO:CD	2.22	1.17
35:Z:401:VAL:HG22	35:Z:426:TYR:OH	1.40	1.17
19:J:336:ASN:ND2	27:R:204:TRP:NE1	1.91	1.17
20:K:210:LEU:CG	20:K:212:TYR:CE2	2.28	1.17
24:O:118:GLY:O	24:O:166:ARG:CD	1.93	1.17
26:Q:61:LEU:HB3	26:Q:65:TYR:CE2	1.80	1.17
35:Z:321:PHE:CE2	35:Z:351:PRO:HD3	1.78	1.17
8:8:326:LYS:HZ1	9:9:74:ARG:NH2	1.42	1.16
24:O:42:SER:O	24:O:46:THR:HB	1.43	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O:277:ILE:HG21	24:O:279:ILE:CB	1.73	1.16
27:R:422:ARG:HH12	28:S:301:PRO:CG	1.56	1.16
30:U:66:TRP:CZ3	30:U:68:LEU:HG	1.80	1.16
33:X:66:LEU:HD13	33:X:99:PHE:CZ	1.79	1.16
35:Z:924:LYS:CB	35:Z:959:HIS:HE1	1.58	1.16
17:H:280:VAL:HG21	18:I:304:ARG:HD3	1.24	1.16
24:O:258:LEU:CD2	24:O:287:LEU:CD2	2.22	1.16
6:6:175:VAL:HG13	6:6:179:PHE:CE2	1.79	1.16
17:H:77:ALA:O	18:I:153:THR:HG22	1.42	1.16
20:K:134:SER:CB	20:K:255:ARG:NH2	2.07	1.16
23:N:329:HIS:CE1	23:N:355:TRP:CE3	2.33	1.16
8:8:207:GLN:CA	9:9:75:GLY:O	1.84	1.16
10:A:57:LYS:CE	10:A:69:VAL:HG12	1.75	1.16
19:J:219:VAL:CB	20:K:284:ALA:HA	1.74	1.16
23:N:28:ILE:O	23:N:32:VAL:HG23	1.45	1.16
5:5:135:PHE:CE2	5:5:163:ALA:HB1	1.81	1.16
8:8:444:GLU:CD	9:9:74:ARG:CD	2.15	1.16
10:A:131:ARG:NH1	10:A:133:TYR:OH	1.79	1.16
19:J:234:PHE:CZ	19:J:279:LEU:HD21	1.79	1.16
23:N:479:GLU:HB2	23:N:512:ASN:ND2	1.61	1.16
30:U:8:VAL:O	30:U:159:CYS:SG	2.04	1.16
8:8:282:GLU:C	9:9:12:THR:HB	1.58	1.15
27:R:353:MET:CE	27:R:364:LEU:HD21	1.76	1.15
22:M:50:ARG:CB	32:W:73:LEU:HD13	1.76	1.15
22:M:75:LEU:CD1	22:M:77:TYR:CD1	2.30	1.15
24:O:214:ALA:HB1	24:O:248:TYR:OH	1.43	1.15
25:P:132:VAL:HA	25:P:171:MET:CE	1.76	1.15
27:R:33:LEU:HD21	27:R:92:ILE:HD13	1.27	1.15
33:X:10:PHE:O	33:X:33:ILE:HG22	1.40	1.15
35:Z:401:VAL:CG2	35:Z:426:TYR:OH	1.93	1.15
20:K:49:PHE:CD1	23:N:192:LEU:HD12	1.80	1.15
14:E:165:TYR:HB2	14:E:167:TYR:CE1	1.82	1.15
17:H:206:VAL:HG11	17:H:258:LEU:HD22	1.28	1.15
21:L:309:LEU:CD2	21:L:342:ARG:CD	2.23	1.15
23:N:421:ASP:CA	23:N:424:LYS:HZ3	1.58	1.15
24:O:306:ARG:CD	24:O:350:ILE:O	1.94	1.15
29:T:150:ARG:NH2	29:T:151:TRP:CE2	2.14	1.15
15:F:201:LEU:CD1	15:F:206:LEU:CD1	2.25	1.14
16:G:215:ILE:HG23	16:G:230:VAL:HB	1.26	1.14
24:O:185:PHE:CG	24:O:223:LEU:HB3	1.82	1.14
14:E:178:GLY:HA3	17:H:409:ARG:HH22	1.10	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J:216:ALA:O	19:J:219:VAL:N	1.78	1.14
23:N:277:LEU:HD11	23:N:290:LEU:HD11	1.16	1.14
24:O:258:LEU:HD22	24:O:287:LEU:CD2	1.77	1.14
30:U:223:HIS:ND1	30:U:224:THR:OG1	1.76	1.14
8:8:253:LYS:NZ	9:9:64:GLU:HB2	1.61	1.14
8:8:283:LYS:N	9:9:12:THR:CB	2.10	1.14
16:G:73:ILE:HG12	16:G:108:ILE:CD1	1.78	1.14
19:J:375:ILE:HD12	27:R:204:TRP:CE3	1.83	1.14
24:O:69:PHE:CD2	24:O:78:VAL:HG22	1.83	1.14
24:O:250:TRP:CE2	24:O:270:ILE:HG23	1.82	1.14
32:W:59:PRO:CG	32:W:93:ILE:HG13	1.76	1.14
19:J:219:VAL:HG11	20:K:284:ALA:C	1.73	1.14
20:K:49:PHE:CD1	23:N:192:LEU:CD1	2.30	1.14
27:R:280:ILE:HD12	27:R:289:ILE:HG13	1.22	1.14
13:D:88:LYS:NZ	13:D:120:TYR:OH	1.81	1.14
20:K:134:SER:OG	20:K:255:ARG:NH2	1.79	1.14
24:O:214:ALA:CB	24:O:248:TYR:OH	1.94	1.14
27:R:214:TYR:OH	27:R:226:GLU:HB3	1.47	1.14
33:X:75:TRP:CD1	33:X:87:PHE:CD1	2.35	1.14
17:H:390:ARG:HA	17:H:404:TRP:CZ2	1.82	1.13
24:O:277:ILE:CG2	24:O:279:ILE:N	2.10	1.13
27:R:137:LEU:HD11	27:R:141:TYR:CE2	1.83	1.13
20:K:210:LEU:HG	20:K:212:TYR:CE2	1.83	1.13
23:N:253:LEU:HD22	23:N:894:ARG:HH21	1.12	1.13
30:U:161:ILE:HG22	30:U:162:GLU:N	1.52	1.13
10:A:57:LYS:CE	10:A:69:VAL:CG1	2.26	1.13
23:N:14:ARG:HH21	23:N:42:GLU:CD	1.56	1.13
23:N:277:LEU:HB2	23:N:287:LEU:HD21	1.19	1.13
32:W:5:ALA:CB	32:W:103:ASN:ND2	2.09	1.13
27:R:175:ALA:O	27:R:179:PHE:CD1	2.01	1.13
32:W:146:GLU:O	32:W:147:ILE:HG13	0.97	1.13
35:Z:193:PHE:CD2	35:Z:196:SER:CB	2.32	1.13
35:Z:551:LEU:CD1	35:Z:591:ILE:HG22	1.78	1.13
8:8:326:LYS:HZ1	9:9:74:ARG:NE	1.47	1.13
18:I:281:ILE:CG2	18:I:284:ILE:CD1	2.16	1.13
5:5:135:PHE:HE2	5:5:163:ALA:HB1	1.04	1.12
23:N:277:LEU:CD1	23:N:290:LEU:HD12	1.75	1.12
25:P:308:LEU:HD23	25:P:369:LEU:HA	1.28	1.13
26:Q:423:VAL:HG13	27:R:414:LEU:HD11	1.31	1.12
31:V:117:TRP:HZ2	31:V:196:TYR:HA	1.15	1.12
33:X:11:ARG:CB	33:X:103:GLU:HG3	1.79	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:H:307:PHE:CZ	17:H:309:ASP:OD1	2.02	1.12
19:J:27:ILE:HA	20:K:51:LEU:CD2	1.78	1.12
19:J:219:VAL:CB	20:K:281:ARG:CD	2.19	1.12
27:R:308:LEU:CB	27:R:334:ARG:NH2	2.13	1.12
27:R:415:GLN:CG	28:S:471:LEU:CD2	2.28	1.12
30:U:35:GLY:CA	30:U:93:TYR:HB3	1.80	1.12
23:N:277:LEU:HD12	23:N:290:LEU:CD1	1.79	1.12
6:6:91:LYS:CD	6:6:96:TYR:OH	1.98	1.12
12:C:160:TRP:CD2	12:C:163:ILE:HD13	1.85	1.12
15:F:105:VAL:HG11	15:F:143:HIS:ND1	1.62	1.12
16:G:73:ILE:HG12	16:G:108:ILE:HD11	1.13	1.12
25:P:234:TYR:HA	25:P:267:PHE:CE2	1.84	1.12
29:T:82:PHE:CE1	29:T:109:TYR:CG	2.09	1.12
31:V:117:TRP:NE1	31:V:196:TYR:CB	1.68	1.12
35:Z:610:GLY:O	35:Z:748:LEU:HD22	1.50	1.12
3:3:96:VAL:O	3:3:117:LEU:CD1	1.98	1.11
8:8:264:HIS:ND1	9:9:10:GLY:CA	2.13	1.11
11:B:179:TRP:HD1	11:B:183:LEU:CD1	1.63	1.11
14:E:109:VAL:HG11	14:E:156:PHE:CD1	1.84	1.11
17:H:206:VAL:HG11	17:H:258:LEU:CD2	1.80	1.11
23:N:399:PHE:CD1	23:N:441:VAL:CG2	2.20	1.11
19:J:193:THR:CB	19:J:316:PHE:CE1	2.33	1.11
31:V:261:LEU:HD21	31:V:283:THR:HG21	1.31	1.11
32:W:5:ALA:CB	32:W:103:ASN:HB2	1.78	1.11
3:3:12:VAL:HG22	3:3:103:ILE:HD11	1.26	1.11
24:O:210:ARG:NH2	24:O:242:ILE:HA	0.78	1.11
24:O:230:PHE:HE1	24:O:251:LEU:CG	1.62	1.11
24:O:277:ILE:HG22	24:O:279:ILE:H	1.13	1.11
24:O:277:ILE:HG13	24:O:279:ILE:HB	1.22	1.11
12:C:160:TRP:CE3	12:C:163:ILE:HD13	1.85	1.11
18:I:75:PHE:HD2	18:I:76:VAL:HG23	1.16	1.11
17:H:172:MET:HE1	18:I:129:TYR:HD2	1.04	1.11
29:T:55:LEU:HG	29:T:59:LYS:HE2	1.19	1.11
8:8:444:GLU:HG2	9:9:74:ARG:HD2	1.28	1.10
19:J:219:VAL:HG11	20:K:284:ALA:HA	1.15	1.10
25:P:245:TYR:HE1	25:P:257:TRP:CZ2	1.67	1.10
18:I:400:GLY:HA3	19:J:179:ILE:CD1	1.80	1.10
19:J:115:LEU:HD21	19:J:120:TYR:HA	1.18	1.10
26:Q:329:GLU:OE1	26:Q:332:ARG:NH2	1.83	1.10
35:Z:312:TYR:OH	35:Z:348:LEU:HA	1.48	1.10
1:1:119:VAL:CG2	16:G:103:LYS:HZ2	1.64	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:P:302:LEU:HB3	25:P:310:ARG:HE	0.94	1.10
26:Q:46:VAL:HG23	26:Q:50:ARG:HB2	1.29	1.10
27:R:137:LEU:CD1	27:R:141:TYR:CE2	2.33	1.10
28:S:205:ASN:O	28:S:208:ILE:HG22	1.50	1.10
31:V:118:LEU:HD12	31:V:140:VAL:HB	1.24	1.10
6:6:34:VAL:HG12	6:6:196:LEU:HD12	1.31	1.10
17:H:168:ILE:HG22	17:H:169:GLU:N	1.66	1.10
28:S:163:VAL:HG22	28:S:184:TRP:CZ3	1.85	1.10
30:U:66:TRP:CZ3	30:U:68:LEU:CG	2.34	1.10
32:W:143:ASN:HB3	32:W:173:THR:HA	1.31	1.10
17:H:248:LEU:HD22	17:H:377:PHE:HE2	1.03	1.10
24:O:373:TRP:NE1	30:U:200:LEU:HD21	1.65	1.10
26:Q:31:LEU:HG	26:Q:50:ARG:HH21	1.10	1.10
35:Z:87:LYS:HE2	35:Z:90:LYS:HB2	1.34	1.10
4:4:43:MET:HG3	4:4:45:PHE:CZ	1.86	1.09
4:4:80:SER:HB2	4:4:124:LYS:HD2	1.28	1.09
8:8:116:ASN:CA	9:9:76:GLZ:C	2.29	1.09
8:8:318:PHE:HA	9:9:71:LEU:CD2	1.81	1.09
13:D:96:HIS:NE2	13:D:100:LEU:HD12	1.65	1.09
14:E:48:LEU:HD11	14:E:145:ALA:HB3	1.34	1.09
24:O:30:GLU:OE1	24:O:40:GLN:OE1	1.70	1.09
8:8:212:GLU:CD	9:9:72:ARG:HD3	1.77	1.09
14:E:201:LEU:HD11	14:E:239:LEU:HG	1.33	1.09
17:H:389:PHE:HB3	17:H:404:TRP:CZ3	1.87	1.09
23:N:19:SER:HB3	29:T:35:ILE:CG2	1.81	1.09
26:Q:249:LEU:O	26:Q:250:THR:HG22	1.51	1.09
30:U:92:TRP:HZ3	30:U:106:ILE:HB	1.02	1.09
35:Z:357:ILE:HD11	35:Z:914:LEU:HD13	1.30	1.09
8:8:329:ILE:HA	17:H:163:VAL:HG22	1.29	1.09
8:8:444:GLU:HB3	9:9:74:ARG:HD3	1.12	1.09
22:M:361:LEU:HB3	22:M:376:TRP:CD2	1.88	1.09
23:N:277:LEU:HD12	23:N:290:LEU:HD12	1.27	1.09
32:W:5:ALA:HB2	32:W:103:ASN:CB	1.83	1.09
1:1:119:VAL:HG21	16:G:103:LYS:HZ2	1.10	1.09
8:8:330:LEU:HD12	17:H:166:THR:HG23	1.13	1.09
10:A:195:ASN:O	10:A:196:GLU:HG2	1.51	1.09
26:Q:46:VAL:O	26:Q:50:ARG:HG2	1.50	1.09
27:R:415:GLN:HG3	28:S:471:LEU:CD2	1.82	1.09
8:8:329:ILE:CB	17:H:163:VAL:HG21	1.81	1.09
23:N:421:ASP:HA	23:N:424:LYS:HZ3	0.94	1.09
1:1:14:LEU:HD11	1:1:44:CYS:SG	1.92	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:G:146:HIS:CB	16:G:148:TYR:HE1	1.64	1.08
17:H:99:VAL:CG2	17:H:173:ARG:NH2	2.09	1.08
29:T:35:ILE:HD12	29:T:40:LEU:HD11	1.17	1.08
30:U:161:ILE:CG2	30:U:162:GLU:H	1.65	1.08
2:2:8:PHE:CZ	2:2:11:GLY:HA3	1.88	1.08
11:B:38:LYS:O	11:B:179:TRP:CZ2	2.06	1.08
19:J:27:ILE:CA	20:K:51:LEU:HD21	1.82	1.08
21:L:360:ILE:CG2	21:L:391:ILE:HD13	1.84	1.08
21:L:370:LYS:HB2	21:L:374:PHE:CZ	1.87	1.08
24:O:38:TRP:HE3	24:O:53:LYS:HD3	1.10	1.08
29:T:190:ALA:HB2	29:T:224:ARG:CZ	1.83	1.08
30:U:94:HIS:HE1	30:U:96:GLY:HA2	1.12	1.08
32:W:101:ARG:HH12	32:W:104:LYS:HG2	1.17	1.08
17:H:248:LEU:HD22	17:H:377:PHE:CE2	1.87	1.08
19:J:301:ASP:H	19:J:304:LEU:HD12	1.14	1.08
22:M:75:LEU:CG	22:M:77:TYR:CD1	2.36	1.08
23:N:406:TYR:CE1	23:N:448:LEU:CD1	2.35	1.08
24:O:118:GLY:O	24:O:166:ARG:HG2	1.48	1.08
24:O:283:HIS:NE2	24:O:287:LEU:HD12	1.66	1.08
27:R:353:MET:HE3	27:R:364:LEU:CD2	1.84	1.08
17:H:390:ARG:HA	17:H:404:TRP:CE2	1.88	1.08
19:J:219:VAL:CG2	20:K:284:ALA:HB2	1.82	1.08
20:K:240:SER:H	21:L:306:MET:HE1	1.12	1.08
24:O:80:LYS:HE2	24:O:81:TYR:OH	1.52	1.08
30:U:92:TRP:CZ3	30:U:106:ILE:HB	1.88	1.08
32:W:25:ARG:HD2	32:W:144:PHE:CE2	1.88	1.08
23:N:277:LEU:CB	23:N:287:LEU:HD21	1.82	1.08
24:O:124:ASP:CG	24:O:127:LEU:CD1	2.26	1.08
26:Q:243:PHE:CZ	26:Q:287:THR:C	2.31	1.08
35:Z:189:ALA:HB1	35:Z:193:PHE:HB3	1.16	1.08
35:Z:510:LEU:HD13	35:Z:542:ILE:HG12	1.34	1.08
1:1:75:THR:HG21	1:1:111:TYR:HD1	1.12	1.07
17:H:280:VAL:HG21	18:I:304:ARG:CD	1.84	1.07
19:J:219:VAL:CG1	20:K:284:ALA:CA	2.27	1.07
21:L:150:ILE:HG13	21:L:151:THR:HG23	1.33	1.07
24:O:358:ILE:HG22	24:O:360:GLY:H	1.11	1.07
32:W:7:VAL:HG23	32:W:110:ILE:HD13	1.09	1.07
35:Z:422:ILE:HB	35:Z:426:TYR:CE2	1.88	1.07
35:Z:551:LEU:HD13	35:Z:591:ILE:CG2	1.84	1.07
1:1:8:PHE:CE2	1:1:10:ASP:HB2	1.90	1.07
14:E:231:TYR:HE2	14:E:236:THR:HA	1.08	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J:193:THR:CG2	19:J:316:PHE:CE1	2.36	1.07
24:O:69:PHE:HD2	24:O:78:VAL:HG22	0.97	1.07
26:Q:65:TYR:HD2	26:Q:74:LEU:HB2	1.17	1.07
26:Q:272:LEU:HD23	26:Q:274:LEU:HD12	1.34	1.07
27:R:353:MET:HE3	27:R:364:LEU:HD21	1.23	1.07
29:T:197:TYR:CE2	29:T:235:PHE:HE1	1.46	1.07
29:T:229:VAL:HG22	29:T:234:TYR:HE1	1.19	1.07
32:W:5:ALA:HB2	32:W:103:ASN:CG	1.78	1.07
11:B:178:ARG:HH12	11:B:194:LEU:CB	1.66	1.07
14:E:231:TYR:CE2	14:E:236:THR:HA	1.88	1.07
23:N:47:GLU:O	23:N:50:TYR:HB3	1.52	1.07
24:O:124:ASP:HB3	24:O:127:LEU:HB2	1.19	1.07
30:U:275:VAL:HG11	31:V:251:TYR:OH	1.53	1.07
32:W:7:VAL:HG23	32:W:110:ILE:CD1	1.84	1.07
1:1:-6:GLY:HA3	2:2:116:HIS:CD2	1.90	1.07
15:F:201:LEU:CD1	15:F:206:LEU:HD12	1.82	1.07
24:O:233:LEU:HA	24:O:236:HIS:HB3	1.34	1.07
27:R:296:LEU:HD13	27:R:337:VAL:HG23	1.32	1.07
31:V:114:PHE:CD1	31:V:118:LEU:O	2.08	1.07
35:Z:610:GLY:HA2	35:Z:748:LEU:HD13	1.30	1.07
17:H:168:ILE:HG22	17:H:169:GLU:H	1.13	1.07
18:I:252:LEU:C	18:I:253:ILE:N	2.13	1.07
18:I:361:ILE:HG22	18:I:392:ILE:HG21	1.35	1.07
19:J:234:PHE:CE1	19:J:279:LEU:HD21	1.90	1.07
20:K:210:LEU:CD2	20:K:212:TYR:CZ	2.32	1.07
21:L:252:VAL:HG12	22:M:256:ILE:HD11	1.14	1.07
25:P:181:LEU:HD21	25:P:219:GLU:HB3	1.09	1.07
26:Q:160:ASP:OD1	26:Q:163:ARG:NH2	1.87	1.07
26:Q:311:LEU:HD12	26:Q:366:ILE:HG12	1.32	1.07
17:H:198:MET:CE	17:H:272:ILE:HG23	1.84	1.06
21:L:360:ILE:HG21	21:L:391:ILE:CD1	1.85	1.06
20:K:423:LYS:HE2	20:K:424:PHE:CE2	1.90	1.06
24:O:134:ALA:HB1	24:O:153:LEU:HD11	1.36	1.06
25:P:245:TYR:CE1	25:P:257:TRP:NE1	2.23	1.06
26:Q:382:LEU:HD11	27:R:299:SER:HB2	1.32	1.06
32:W:182:TYR:O	32:W:183:GLU:HG3	1.53	1.06
35:Z:358:TYR:HD2	35:Z:428:TRP:NE1	1.50	1.06
35:Z:471:LEU:CA	35:Z:497:PHE:CZ	2.38	1.06
1:1:8:PHE:HE2	1:1:10:ASP:HB2	0.97	1.06
17:H:340:LEU:CD1	17:H:370:ARG:HH11	1.66	1.06
22:M:385:GLU:CB	22:M:426:LYS:NZ	2.18	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O:153:LEU:HD13	24:O:174:THR:CG2	1.84	1.06
25:P:234:TYR:HA	25:P:267:PHE:CZ	1.90	1.06
27:R:353:MET:HA	27:R:357:PHE:CD1	1.90	1.06
17:H:449:LYS:HZ2	18:I:346:ARG:NH1	1.54	1.06
20:K:68:ILE:HG12	23:N:608:LEU:CD2	1.85	1.06
20:K:281:ARG:HH12	20:K:287:GLY:HA2	1.10	1.06
25:P:241:LEU:O	25:P:244:ILE:HG22	1.52	1.06
32:W:124:GLU:OE2	32:W:127:ARG:NH2	1.87	1.06
35:Z:786:SER:O	35:Z:787:ASP:CG	1.99	1.06
4:4:66:TYR:CE1	4:4:74:LEU:CD2	2.38	1.05
6:6:115:SER:OG	6:6:128:ARG:NH1	1.89	1.05
26:Q:14:LEU:HD11	26:Q:26:VAL:CG2	1.80	1.05
6:6:10:ASP:OD1	6:6:11:PHE:HD1	1.38	1.05
8:8:320:LYS:HE2	17:H:164:SER:CB	1.61	1.05
18:I:132:ILE:CD1	18:I:138:LYS:HE2	1.86	1.05
24:O:62:TYR:HE2	24:O:82:LEU:CD2	1.69	1.05
24:O:233:LEU:HD22	24:O:238:ILE:HD11	1.31	1.05
26:Q:243:PHE:HZ	26:Q:287:THR:C	1.62	1.05
32:W:21:PHE:CZ	32:W:144:PHE:CE1	2.44	1.05
35:Z:237:VAL:HG12	35:Z:245:VAL:HG11	1.36	1.05
8:8:318:PHE:CA	9:9:71:LEU:HD23	1.85	1.05
20:K:210:LEU:HD23	20:K:212:TYR:HE2	1.18	1.05
21:L:252:VAL:HG12	22:M:256:ILE:HD13	1.14	1.05
21:L:365:THR:OG1	21:L:376:PHE:HZ	1.40	1.05
24:O:11:LEU:HB3	24:O:43:GLU:OE1	1.56	1.05
35:Z:189:ALA:CB	35:Z:193:PHE:HB3	1.81	1.05
24:O:232:GLU:O	24:O:236:HIS:CB	2.03	1.05
27:R:171:MET:HE2	27:R:206:ARG:HG3	1.09	1.05
30:U:283:ARG:HD2	31:V:284:ALA:HA	1.36	1.05
30:U:283:ARG:CD	31:V:284:ALA:HA	1.86	1.05
33:X:40:GLU:O	33:X:41:GLU:HG2	1.55	1.05
6:6:175:VAL:CG1	6:6:179:PHE:HE2	1.69	1.05
18:I:369:MET:HE1	18:I:416:PHE:HZ	1.14	1.05
19:J:329:ARG:HG3	19:J:333:ARG:NH1	1.70	1.05
20:K:254:VAL:HG11	20:K:299:LEU:HD23	1.39	1.05
22:M:77:TYR:CE2	22:M:159:LEU:CD1	2.39	1.05
23:N:19:SER:CB	29:T:35:ILE:HG21	1.87	1.05
24:O:73:ILE:HG23	24:O:74:ASN:H	1.18	1.05
28:S:286:TYR:HE1	28:S:323:LEU:HD13	1.17	1.05
35:Z:400:ILE:CD1	35:Z:418:ALA:HB1	1.86	1.05
8:8:326:LYS:NZ	9:9:74:ARG:CZ	2.17	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:F:155:GLU:OE1	16:G:62:LYS:HB3	1.56	1.04
19:J:241:ALA:HB1	19:J:287:ASN:HD22	1.20	1.04
35:Z:64:TYR:CE1	35:Z:111:LEU:HB3	1.93	1.04
35:Z:133:ASP:HB3	35:Z:137:TYR:CE2	1.92	1.04
35:Z:138:ARG:HD2	35:Z:157:LEU:HD13	1.39	1.04
5:5:6:PHE:CE1	5:5:13:ILE:HB	1.92	1.04
21:L:259:SER:CB	21:L:303:ARG:NH2	2.20	1.04
29:T:197:TYR:CZ	29:T:199:PHE:HA	1.93	1.04
18:I:121:THR:HA	18:I:127:ASP:OD1	1.56	1.04
23:N:253:LEU:HD22	23:N:894:ARG:NH2	1.69	1.04
24:O:79:VAL:HG21	24:O:122:HIS:HA	1.12	1.04
28:S:163:VAL:CG2	28:S:184:TRP:HZ3	1.69	1.04
33:X:11:ARG:HB3	33:X:103:GLU:HG3	1.40	1.04
19:J:136:LEU:HD22	19:J:217:GLU:HG3	1.35	1.04
20:K:200:GLN:CD	27:R:204:TRP:CH2	2.23	1.04
30:U:273:LEU:HD11	30:U:277:TYR:CZ	1.93	1.04
8:8:207:GLN:HA	9:9:75:GLY:O	1.54	1.04
23:N:399:PHE:HE1	23:N:441:VAL:HG23	1.10	1.04
24:O:47:LYS:HZ1	24:O:65:PHE:HE2	1.04	1.04
24:O:76:LEU:CD2	24:O:121:ASP:OD1	2.04	1.04
31:V:52:LEU:HD11	31:V:107:TRP:CZ3	1.93	1.04
35:Z:471:LEU:CA	35:Z:497:PHE:HZ	1.69	1.04
8:8:283:LYS:C	9:9:12:THR:O	2.01	1.03
19:J:272:MET:HE3	19:J:290:ILE:HD13	1.36	1.03
24:O:38:TRP:CE3	24:O:53:LYS:HD3	1.94	1.03
24:O:79:VAL:CG2	24:O:122:HIS:CA	2.27	1.03
24:O:223:LEU:HD11	24:O:277:ILE:HD11	1.33	1.03
28:S:471:LEU:CD1	30:U:288:PHE:CZ	2.40	1.03
29:T:226:TRP:CE2	29:T:235:PHE:HE2	1.75	1.03
33:X:23:LEU:O	33:X:24:CYS:SG	2.16	1.03
8:8:253:LYS:NZ	9:9:64:GLU:CB	2.22	1.03
11:B:4:ARG:HH22	13:D:5:ASP:HB2	1.20	1.03
18:I:208:TYR:CE2	18:I:215:PRO:HB3	1.93	1.03
20:K:49:PHE:HE1	23:N:192:LEU:HG	1.23	1.03
20:K:200:GLN:CB	27:R:204:TRP:HZ2	1.32	1.03
23:N:383:LYS:N	23:N:412:TYR:OH	1.90	1.03
29:T:1:MET:CB	29:T:2:PRO:HD3	1.84	1.03
30:U:275:VAL:HG12	31:V:251:TYR:HE1	1.17	1.03
35:Z:218:GLU:CB	35:Z:248:TYR:CZ	2.40	1.03
3:3:18:LEU:CD1	3:3:177:VAL:HG13	1.88	1.03
3:3:179:TYR:OH	3:3:188:LYS:HE3	1.57	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J:27:ILE:HA	20:K:51:LEU:HD21	1.07	1.03
19:J:150:VAL:HG23	19:J:153:LEU:HD11	1.37	1.03
19:J:219:VAL:CG2	20:K:284:ALA:CA	2.37	1.03
20:K:200:GLN:HG2	27:R:204:TRP:CH2	1.82	1.03
20:K:236:ARG:HH21	21:L:310:THR:HG23	1.22	1.03
20:K:423:LYS:HE2	20:K:424:PHE:HE2	1.23	1.03
29:T:229:VAL:HG22	29:T:234:TYR:CE1	1.93	1.03
30:U:223:HIS:ND1	30:U:224:THR:N	2.07	1.03
31:V:118:LEU:CD1	31:V:140:VAL:CB	2.36	1.03
35:Z:551:LEU:CD1	35:Z:591:ILE:CG2	2.36	1.03
19:J:333:ARG:HH12	19:J:343:LEU:HD11	1.20	1.03
30:U:152:LYS:HB3	30:U:154:PHE:CZ	1.93	1.03
31:V:117:TRP:CE2	31:V:196:TYR:CB	2.36	1.03
35:Z:102:ILE:HG22	35:Z:112:LYS:HG3	1.38	1.03
12:C:147:GLN:HB3	12:C:149:TYR:HE1	1.23	1.03
23:N:33:ASP:HA	23:N:71:ASN:HD21	1.21	1.03
30:U:189:ARG:HH12	31:V:296:LEU:HD22	0.87	1.03
3:3:89:ARG:O	3:3:94:TYR:CE1	2.12	1.02
6:6:48:PHE:CE2	6:6:50:ALA:HB3	1.94	1.02
14:E:125:GLU:HB3	15:F:123:TYR:HE1	1.17	1.02
17:H:389:PHE:HB3	17:H:404:TRP:CE3	1.93	1.02
18:I:250:SER:O	18:I:253:ILE:HB	1.59	1.02
19:J:219:VAL:CG2	20:K:284:ALA:CB	2.37	1.02
24:O:329:MET:HA	25:P:357:TYR:OH	1.59	1.02
35:Z:135:LEU:O	35:Z:139:LEU:HG	1.59	1.02
10:A:57:LYS:HE2	10:A:69:VAL:HG11	1.39	1.02
22:M:361:LEU:HD13	22:M:376:TRP:CE3	1.94	1.02
27:R:415:GLN:HG3	28:S:471:LEU:HD21	1.05	1.02
30:U:66:TRP:O	32:W:93:ILE:HD12	1.56	1.02
18:I:339:ILE:HG21	18:I:347:LYS:HE2	1.40	1.02
22:M:289:LYS:NZ	22:M:334:ASP:HB2	1.74	1.02
23:N:782:PHE:CD1	23:N:875:LEU:HD22	1.94	1.02
25:P:181:LEU:HA	25:P:223:LEU:HD11	1.40	1.02
1:1:122:LEU:CD1	7:7:28:PHE:CE1	2.42	1.02
8:8:318:PHE:HA	9:9:71:LEU:HD22	1.42	1.02
14:E:241:LYS:HA	14:E:244:LYS:HZ2	1.24	1.02
19:J:219:VAL:C	20:K:281:ARG:HD2	1.83	1.02
24:O:80:LYS:CE	24:O:81:TYR:CE2	2.42	1.02
27:R:422:ARG:HH22	28:S:301:PRO:HD3	1.24	1.02
6:6:175:VAL:O	6:6:179:PHE:HD2	1.41	1.01
7:7:86:GLU:HG3	15:F:100:ASN:HB2	1.39	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:F:78:ALA:N	22:M:433:TYR:OH	1.91	1.01
15:F:201:LEU:HD12	15:F:206:LEU:HD11	1.04	1.01
18:I:174:ASP:OD1	19:J:282:PHE:CB	2.08	1.01
24:O:133:ILE:HG12	24:O:137:TYR:CE2	1.95	1.01
26:Q:7:LYS:HG3	26:Q:30:LEU:HD13	1.39	1.01
27:R:199:GLU:HB3	27:R:206:ARG:NE	1.75	1.01
27:R:320:LYS:HE3	27:R:324:ARG:HD2	1.42	1.01
30:U:56:PHE:HD1	30:U:68:LEU:HD21	0.95	1.01
1:1:-6:GLY:CA	2:2:116:HIS:CD2	2.42	1.01
9:9:15:LEU:HD11	9:9:29:LYS:HB3	1.40	1.01
17:H:96:PRO:HA	17:H:193:PRO:HG2	1.36	1.01
20:K:210:LEU:CD2	20:K:212:TYR:OH	2.06	1.01
23:N:28:ILE:O	23:N:32:VAL:CG2	2.09	1.01
24:O:185:PHE:CG	24:O:223:LEU:CB	2.42	1.01
27:R:422:ARG:NH1	28:S:301:PRO:CB	2.08	1.01
35:Z:352:LYS:O	35:Z:353:VAL:HG23	1.60	1.01
8:8:326:LYS:NZ	9:9:74:ARG:NE	2.07	1.01
18:I:132:ILE:HD12	18:I:138:LYS:CE	1.90	1.01
21:L:253:ASP:C	22:M:256:ILE:HG13	1.85	1.01
28:S:381:VAL:HG11	29:T:123:HIS:NE2	1.76	1.01
8:8:329:ILE:HA	17:H:163:VAL:HG23	1.05	1.01
8:8:444:GLU:CB	9:9:74:ARG:HD3	1.77	1.01
19:J:219:VAL:HG21	20:K:284:ALA:CB	1.90	1.01
21:L:161:ARG:NH2	21:L:261:ARG:NH1	1.89	1.01
21:L:178:ILE:HD13	21:L:230:LEU:HD22	1.41	1.01
23:N:329:HIS:CE1	23:N:355:TRP:CZ3	2.48	1.01
24:O:153:LEU:CD1	24:O:174:THR:CG2	2.38	1.01
16:G:197:LYS:HD2	16:G:241:PHE:CE2	1.96	1.01
17:H:99:VAL:HG23	17:H:173:ARG:HH21	1.24	1.01
21:L:221:TYR:CZ	21:L:348:GLU:HB3	1.96	1.01
22:M:50:ARG:CA	32:W:73:LEU:HD13	1.89	1.01
26:Q:51:ARG:HH22	26:Q:92:LYS:HD3	1.16	1.01
29:T:209:LEU:HB3	29:T:211:PHE:CE1	1.96	1.01
35:Z:767:TYR:CE2	35:Z:772:ILE:HG13	1.95	1.01
35:Z:924:LYS:CA	35:Z:959:HIS:CE1	2.44	1.01
18:I:100:ARG:O	18:I:104:LEU:HD12	1.59	1.00
18:I:400:GLY:HA3	19:J:179:ILE:HD11	1.38	1.00
23:N:25:LEU:HD11	23:N:57:ASP:HB2	1.05	1.00
29:T:35:ILE:HD12	29:T:40:LEU:CD1	1.91	1.00
6:6:175:VAL:HG13	6:6:179:PHE:HE2	0.87	1.00
8:8:212:GLU:CD	9:9:42:ARG:HD3	1.86	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:E:110:GLU:HG3	14:E:164:PHE:HE2	1.23	1.00
17:H:340:LEU:HD12	17:H:370:ARG:HH11	1.26	1.00
21:L:180:PHE:CE2	21:L:238:THR:OG1	2.03	1.00
21:L:221:TYR:OH	21:L:348:GLU:HB3	1.60	1.00
24:O:185:PHE:CB	24:O:223:LEU:HB3	1.91	1.00
24:O:325:GLU:O	24:O:329:MET:HG3	1.61	1.00
24:O:373:TRP:HD1	30:U:200:LEU:HD22	0.86	1.00
26:Q:61:LEU:CB	26:Q:65:TYR:CZ	2.37	1.00
27:R:174:ILE:HB	27:R:190:LYS:HD3	1.42	1.00
8:8:330:LEU:HD13	17:H:166:THR:HG21	1.38	1.00
20:K:364:PRO:CB	26:Q:247:HIS:HE1	1.50	1.00
25:P:221:TYR:CE2	25:P:244:ILE:HB	1.96	1.00
26:Q:31:LEU:HG	26:Q:50:ARG:NH2	1.76	1.00
27:R:415:GLN:HG2	28:S:471:LEU:HD22	1.44	1.00
5:5:8:PHE:CE1	5:5:13:ILE:HG12	1.97	1.00
28:S:436:ILE:HG12	29:T:196:SER:O	1.61	1.00
28:S:371:LEU:CD1	28:S:380:CYS:SG	2.49	1.00
10:A:57:LYS:NZ	10:A:69:VAL:HB	1.77	1.00
8:8:212:GLU:OE2	9:9:42:ARG:NE	1.94	1.00
10:A:220:LYS:HD2	10:A:238:ALA:O	1.62	1.00
20:K:254:VAL:CG1	20:K:299:LEU:HD23	1.91	1.00
22:M:379:LEU:HD22	22:M:415:PHE:CD1	1.97	1.00
24:O:62:TYR:HE2	24:O:82:LEU:HD22	0.84	1.00
29:T:226:TRP:CE2	29:T:235:PHE:CE2	2.50	1.00
30:U:94:HIS:CE1	30:U:96:GLY:HA2	1.96	1.00
14:E:165:TYR:HB2	14:E:167:TYR:CZ	1.97	0.99
19:J:219:VAL:CG2	20:K:284:ALA:HA	1.91	0.99
24:O:79:VAL:HG12	24:O:121:ASP:O	1.60	0.99
27:R:304:TYR:HE1	27:R:308:LEU:HD11	1.11	0.99
32:W:186:ALA:HA	32:W:192:LEU:HD12	1.44	0.99
11:B:178:ARG:NH1	11:B:194:LEU:HB2	1.76	0.99
24:O:250:TRP:CZ2	24:O:270:ILE:CG2	2.45	0.99
15:F:105:VAL:HG11	15:F:143:HIS:CE1	1.96	0.99
22:M:307:GLU:HG3	22:M:311:GLN:NE2	1.76	0.99
23:N:277:LEU:HB2	23:N:287:LEU:CD2	1.91	0.99
24:O:83:LEU:CD1	24:O:128:LEU:HD22	1.91	0.99
25:P:221:TYR:OH	25:P:240:TYR:O	1.80	0.99
27:R:286:LEU:HD23	27:R:289:ILE:HD11	1.44	0.99
13:D:203:VAL:C	13:D:204:GLN:OE1	2.05	0.99
14:E:157:HIS:CE1	14:E:172:ILE:CG2	2.44	0.99
6:6:125:GLU:OE1	6:6:128:ARG:HD3	1.61	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:8:207:GLN:C	9:9:75:GLY:O	2.05	0.99
8:8:253:LYS:HZ2	9:9:64:GLU:CB	1.73	0.99
12:C:18:ARG:NH1	12:C:23:GLU:OE2	1.94	0.99
14:E:125:GLU:HB3	15:F:123:TYR:CE1	1.97	0.99
19:J:301:ASP:N	19:J:304:LEU:HD12	1.77	0.99
22:M:385:GLU:HB3	22:M:426:LYS:HZ2	1.24	0.99
30:U:21:HIS:HE1	30:U:53:ALA:HB1	1.21	0.99
35:Z:610:GLY:HA3	35:Z:748:LEU:HD13	1.44	0.99
2:2:109:HIS:HB3	2:2:111:PHE:CE2	1.96	0.99
2:2:109:HIS:HB3	2:2:111:PHE:HE2	1.23	0.99
24:O:79:VAL:HB	24:O:122:HIS:HA	1.44	0.99
26:Q:174:LEU:HD11	26:Q:178:HIS:NE2	1.76	0.99
27:R:353:MET:HE3	27:R:364:LEU:HD11	1.41	0.99
35:Z:610:GLY:HA2	35:Z:748:LEU:CD1	1.91	0.99
1:1:122:LEU:HD11	7:7:28:PHE:CD1	1.96	0.99
21:L:132:ARG:NH2	21:L:156:MET:HG3	1.76	0.99
23:N:399:PHE:CD1	23:N:441:VAL:CB	2.44	0.99
25:P:425:HIS:CD2	30:U:225:ILE:CG2	2.45	0.99
31:V:80:VAL:HG23	31:V:125:THR:HA	1.45	0.99
32:W:21:PHE:CE1	32:W:144:PHE:CE1	2.51	0.99
1:1:122:LEU:HD21	7:7:28:PHE:HD1	1.26	0.99
29:T:216:GLU:O	29:T:220:PHE:CD1	2.15	0.99
31:V:161:THR:HA	31:V:189:ILE:HD11	1.45	0.99
25:P:140:THR:HG21	25:P:163:LEU:HD22	1.41	0.99
1:1:19:ARG:NH1	1:1:29:ARG:CG	2.24	0.99
6:6:94:PHE:HE1	7:7:99:MET:HE2	1.26	0.99
14:E:125:GLU:CB	15:F:123:TYR:HE1	1.75	0.99
14:E:201:LEU:CD1	14:E:239:LEU:HG	1.93	0.99
22:M:170:MET:HB3	22:M:244:LEU:HD11	1.42	0.99
24:O:250:TRP:NE1	24:O:270:ILE:HA	1.77	0.99
33:X:46:TRP:HB2	33:X:68:LEU:HD13	1.45	0.99
35:Z:189:ALA:CB	35:Z:193:PHE:HB2	1.90	0.99
27:R:305:PHE:HA	27:R:334:ARG:HH12	1.23	0.98
30:U:275:VAL:CG1	31:V:251:TYR:OH	2.10	0.98
33:X:12:ALA:HB3	33:X:33:ILE:HB	1.44	0.98
1:1:45:ARG:NH2	1:1:53:GLN:N	2.10	0.98
24:O:277:ILE:HG22	24:O:278:PRO:N	1.74	0.98
24:O:365:LYS:HB3	24:O:369:ARG:HH12	1.26	0.98
28:S:157:GLU:CD	28:S:160:ARG:HH21	1.70	0.98
32:W:5:ALA:HB2	32:W:103:ASN:HD22	0.91	0.98
10:A:57:LYS:HE2	10:A:69:VAL:HG12	1.02	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:P:135:GLU:HG2	25:P:138:ARG:NH2	1.78	0.98
26:Q:243:PHE:HE1	26:Q:287:THR:HG22	1.28	0.98
30:U:66:TRP:HZ3	30:U:68:LEU:CG	1.74	0.98
20:K:49:PHE:CE1	23:N:192:LEU:HG	1.98	0.98
25:P:302:LEU:HB3	25:P:310:ARG:NE	1.77	0.98
35:Z:471:LEU:HA	35:Z:497:PHE:HZ	0.81	0.98
18:I:400:GLY:CA	19:J:179:ILE:HD11	1.92	0.98
25:P:245:TYR:HE1	25:P:257:TRP:CE2	1.81	0.98
21:L:365:THR:OG1	21:L:376:PHE:CZ	2.11	0.98
27:R:263:ARG:HH11	27:R:296:LEU:HG	1.29	0.98
29:T:71:GLN:NE2	29:T:173:GLU:OE2	1.95	0.98
24:O:230:PHE:HE1	24:O:251:LEU:HG	0.84	0.98
17:H:77:ALA:O	18:I:153:THR:CG2	2.12	0.98
25:P:234:TYR:CD2	25:P:267:PHE:CE1	2.52	0.98
2:2:82:MET:O	2:2:86:HIS:HD2	1.47	0.98
19:J:219:VAL:HG22	20:K:284:ALA:HB2	1.44	0.98
24:O:219:ILE:O	24:O:223:LEU:HD13	1.63	0.98
24:O:306:ARG:HB3	24:O:350:ILE:O	1.63	0.98
18:I:408:ARG:NH1	18:I:410:GLN:O	1.96	0.98
19:J:67:GLU:HG2	19:J:69:GLY:H	1.27	0.98
30:U:275:VAL:CG1	31:V:251:TYR:CZ	2.43	0.98
35:Z:551:LEU:HA	35:Z:593:HIS:NE2	1.78	0.98
1:1:83:LYS:HD3	1:1:119:VAL:HG23	1.42	0.97
14:E:241:LYS:HA	14:E:244:LYS:NZ	1.78	0.97
26:Q:51:ARG:NH2	26:Q:92:LYS:HD3	1.79	0.97
28:S:286:TYR:CZ	28:S:323:LEU:HB3	1.99	0.97
35:Z:889:VAL:HG12	35:Z:894:MET:HE1	1.43	0.97
25:P:245:TYR:CE1	25:P:257:TRP:CZ2	2.51	0.97
27:R:320:LYS:CE	27:R:324:ARG:HD2	1.93	0.97
30:U:66:TRP:CE3	30:U:68:LEU:HG	1.99	0.97
35:Z:133:ASP:HA	35:Z:137:TYR:CE1	1.99	0.97
35:Z:392:LEU:HD12	35:Z:424:SER:O	1.63	0.97
35:Z:857:LEU:HD13	35:Z:908:ILE:HG13	1.44	0.97
17:H:198:MET:HE2	17:H:272:ILE:HG23	1.45	0.97
19:J:40:ASN:HB3	20:K:65:GLU:OE2	1.64	0.97
23:N:14:ARG:HB2	29:T:80:ASN:HD21	1.29	0.97
24:O:79:VAL:HG12	24:O:118:GLY:HA2	1.42	0.97
23:N:21:LYS:HE3	23:N:55:PHE:CZ	2.00	0.97
24:O:356:ARG:HH21	24:O:362:GLN:HG3	1.27	0.97
31:V:261:LEU:HD11	31:V:283:THR:CG2	1.94	0.97
34:Y:80:GLU:OE2	34:Y:83:ARG:NH2	1.97	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:H:271:PHE:HZ	17:H:307:PHE:HD2	1.00	0.97
26:Q:314:PHE:CE2	26:Q:339:TYR:CD1	2.50	0.97
29:T:193:THR:CB	29:T:226:TRP:HH2	1.77	0.97
21:L:269:TYR:CE2	21:L:273:HIS:CE1	2.52	0.97
26:Q:331:THR:HG22	26:Q:335:PHE:CE2	1.99	0.97
1:1:66:TYR:CE2	1:1:73:PRO:HA	2.00	0.97
11:B:178:ARG:HH12	11:B:194:LEU:HB2	1.26	0.97
23:N:277:LEU:HD11	23:N:290:LEU:CD1	1.84	0.97
35:Z:133:ASP:HA	35:Z:137:TYR:CG	1.98	0.97
11:B:4:ARG:HG2	15:F:123:TYR:OH	1.64	0.97
15:F:143:HIS:HE1	15:F:145:LEU:HB2	1.29	0.97
17:H:307:PHE:CE2	17:H:309:ASP:OD1	2.18	0.97
35:Z:321:PHE:HE1	35:Z:350:GLY:HA2	1.20	0.97
28:S:286:TYR:CE1	28:S:323:LEU:HD13	2.00	0.97
30:U:283:ARG:HD2	31:V:284:ALA:CA	1.93	0.97
35:Z:146:PHE:O	35:Z:210:TYR:CZ	2.18	0.97
21:L:309:LEU:HD23	21:L:342:ARG:HD3	1.42	0.97
25:P:196:ALA:HB1	25:P:227:ILE:HD11	1.47	0.97
28:S:471:LEU:HD12	30:U:288:PHE:CZ	1.99	0.97
35:Z:147:GLU:N	35:Z:210:TYR:OH	1.97	0.97
8:8:319:TRP:H	9:9:71:LEU:HD21	0.83	0.96
19:J:167:PRO:HA	19:J:174:PHE:CE1	1.99	0.96
35:Z:889:VAL:HG12	35:Z:894:MET:CE	1.94	0.96
3:3:89:ARG:O	3:3:94:TYR:HE1	1.44	0.96
8:8:212:GLU:OE2	9:9:72:ARG:CG	2.12	0.96
15:F:105:VAL:CG1	15:F:143:HIS:CE1	2.48	0.96
20:K:281:ARG:NH1	20:K:287:GLY:HA2	1.80	0.96
25:P:286:ASN:C	25:P:293:LEU:HD11	1.91	0.96
21:L:252:VAL:CB	22:M:256:ILE:HD12	1.82	0.96
24:O:258:LEU:HD23	24:O:287:LEU:HD21	1.46	0.96
8:8:318:PHE:CA	9:9:71:LEU:CD2	2.42	0.96
20:K:200:GLN:CA	27:R:204:TRP:CZ2	2.27	0.96
23:N:325:PHE:CA	31:V:182:LYS:HG2	1.95	0.96
26:Q:51:ARG:NH2	26:Q:92:LYS:HB3	1.79	0.96
12:C:149:TYR:OH	13:D:59:ILE:HB	1.64	0.96
15:F:65:LYS:HD3	15:F:222:PHE:CE2	2.01	0.96
23:N:25:LEU:CD1	23:N:57:ASP:CB	2.35	0.96
33:X:66:LEU:HD13	33:X:99:PHE:HZ	1.29	0.96
35:Z:758:LEU:HD22	35:Z:791:LYS:HD3	1.44	0.96
8:8:133:LEU:HD11	8:8:221[B]:MSE:HE2	1.47	0.96
35:Z:551:LEU:HG	35:Z:593:HIS:NE2	1.80	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:N:21:LYS:CG	23:N:55:PHE:CD2	2.48	0.96
35:Z:189:ALA:HB3	35:Z:193:PHE:HD2	1.31	0.96
25:P:349:ASN:O	25:P:353:ILE:CG1	2.13	0.96
26:Q:46:VAL:O	26:Q:50:ARG:CG	2.14	0.96
27:R:137:LEU:HD11	27:R:141:TYR:HE2	1.22	0.96
31:V:261:LEU:CD1	31:V:283:THR:HG21	1.95	0.96
32:W:37:PHE:CZ	32:W:49:VAL:HG11	2.01	0.96
8:8:327:SER:OG	17:H:164:SER:HB2	1.65	0.95
17:H:449:LYS:NZ	18:I:346:ARG:NH1	2.12	0.95
27:R:308:LEU:HB2	27:R:334:ARG:HH22	1.17	0.95
28:S:211:ARG:HH21	28:S:240:ASP:HB3	1.21	0.95
29:T:62:LEU:CD1	29:T:88:TYR:CE2	2.50	0.95
33:X:66:LEU:HD13	33:X:99:PHE:CE1	2.00	0.95
22:M:50:ARG:CA	32:W:73:LEU:CD1	2.43	0.95
26:Q:265:MET:HE3	26:Q:281:ILE:HD13	1.46	0.95
1:1:45:ARG:HH21	1:1:53:GLN:N	1.62	0.95
1:1:119:VAL:HB	16:G:103:LYS:NZ	1.82	0.95
1:1:124:TYR:OH	1:1:139:ASP:OD1	1.81	0.95
19:J:193:THR:OG1	19:J:316:PHE:CZ	2.18	0.95
24:O:66:VAL:CG1	24:O:106:PHE:CE1	2.49	0.95
29:T:82:PHE:CE1	29:T:109:TYR:CE2	2.42	0.95
35:Z:321:PHE:HZ	35:Z:350:GLY:CA	1.49	0.95
23:N:325:PHE:HA	31:V:182:LYS:HG2	1.45	0.95
24:O:185:PHE:HE2	24:O:219:ILE:HG22	1.29	0.95
24:O:373:TRP:CD1	30:U:200:LEU:HD22	1.75	0.95
29:T:197:TYR:CG	29:T:235:PHE:CD1	2.54	0.95
29:T:216:GLU:HG2	29:T:220:PHE:CE1	2.01	0.95
3:3:18:LEU:HD11	3:3:177:VAL:HG13	0.99	0.95
19:J:166:LEU:C	19:J:174:PHE:CE1	2.43	0.95
30:U:92:TRP:HD1	30:U:119:LEU:O	1.48	0.95
35:Z:218:GLU:CB	35:Z:248:TYR:OH	2.13	0.95
24:O:134:ALA:CB	24:O:153:LEU:HD11	1.94	0.95
24:O:300:VAL:HG12	24:O:301:PHE:CD2	2.01	0.95
4:4:26:VAL:HG11	4:4:29:ASP:HB3	1.46	0.95
8:8:319:TRP:N	9:9:71:LEU:HD21	1.61	0.95
15:F:166:GLN:HA	22:M:381:ARG:NH2	1.82	0.95
22:M:50:ARG:HA	32:W:73:LEU:HD12	1.46	0.95
21:L:259:SER:HB2	21:L:303:ARG:NH1	1.82	0.95
21:L:360:ILE:HG23	21:L:391:ILE:HD13	1.46	0.95
29:T:193:THR:CG2	29:T:226:TRP:HH2	1.63	0.95
31:V:57:PHE:HB2	31:V:62:THR:O	1.65	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:X:75:TRP:HD1	33:X:87:PHE:CD1	1.77	0.95
35:Z:103:TYR:CD1	35:Z:116:ALA:HB2	2.01	0.94
4:4:36:GLN:HE21	4:4:39:PRO:HA	1.32	0.94
8:8:326:LYS:NZ	9:9:74:ARG:NH2	2.13	0.94
23:N:233:ASN:OD1	23:N:269:LEU:HD22	1.67	0.94
23:N:399:PHE:HD1	23:N:441:VAL:HG11	1.29	0.94
33:X:75:TRP:CZ2	33:X:125:MET:HG3	2.02	0.94
35:Z:305:VAL:HG13	35:Z:982:ILE:HG12	1.45	0.94
19:J:193:THR:HB	19:J:316:PHE:HZ	1.24	0.94
13:D:138:PHE:HE1	13:D:215:VAL:HG12	1.26	0.94
35:Z:189:ALA:HB3	35:Z:193:PHE:CD2	2.02	0.94
1:1:119:VAL:CB	16:G:103:LYS:NZ	2.30	0.94
18:I:190:GLN:OE1	18:I:349:LEU:HD12	1.68	0.94
30:U:92:TRP:HZ3	30:U:106:ILE:CB	1.79	0.94
31:V:114:PHE:HD1	31:V:118:LEU:O	1.50	0.94
32:W:7:VAL:CG2	32:W:110:ILE:HD13	1.97	0.94
10:A:52:VAL:HG21	10:A:202:VAL:HG12	1.47	0.94
14:E:88:MET:HE2	14:E:142:LEU:CD1	1.97	0.94
19:J:115:LEU:CD2	19:J:120:TYR:HA	1.97	0.94
19:J:167:PRO:N	19:J:174:PHE:CE1	2.36	0.94
24:O:277:ILE:HB	24:O:279:ILE:N	1.83	0.94
29:T:197:TYR:CE1	29:T:235:PHE:HD1	1.85	0.94
32:W:120:ASP:O	32:W:121:SER:N	1.99	0.94
35:Z:510:LEU:HD11	35:Z:542:ILE:HA	1.50	0.94
20:K:158:ILE:HG23	21:L:256:ILE:HG23	1.49	0.94
6:6:175:VAL:CG1	6:6:179:PHE:CE2	2.48	0.94
14:E:109:VAL:CG1	14:E:156:PHE:CD1	2.51	0.94
14:E:110:GLU:HG3	14:E:164:PHE:CE2	2.03	0.94
14:E:165:TYR:CB	14:E:167:TYR:CE1	2.51	0.94
17:H:174:VAL:HG13	17:H:183:ILE:HG13	1.48	0.94
24:O:223:LEU:CD1	24:O:277:ILE:HD11	1.97	0.94
24:O:341:ILE:HD11	24:O:348:VAL:HG22	1.48	0.94
27:R:137:LEU:CG	27:R:141:TYR:HE2	1.81	0.94
27:R:263:ARG:NH1	27:R:296:LEU:O	2.00	0.94
29:T:193:THR:HG21	29:T:226:TRP:CZ3	2.02	0.94
29:T:197:TYR:HD1	29:T:198:ASP:H	0.97	0.94
29:T:226:TRP:HD1	29:T:241:GLU:OE1	1.50	0.94
30:U:66:TRP:CZ3	30:U:68:LEU:HD12	2.02	0.94
33:X:66:LEU:HD11	33:X:97:TYR:HB2	1.48	0.94
35:Z:102:ILE:HG12	35:Z:107:THR:OG1	1.66	0.94
35:Z:312:TYR:OH	35:Z:348:LEU:CA	2.14	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:N:214:LEU:HD12	23:N:217:MET:CE	1.96	0.94
23:N:324:LYS:HG3	23:N:325:PHE:CD1	2.02	0.94
29:T:245:TYR:HE2	29:T:251:HIS:HE2	1.15	0.94
35:Z:491:LEU:CD1	35:Z:900:LEU:HD12	1.97	0.94
35:Z:609:THR:HG23	35:Z:745:LEU:HD22	1.48	0.94
35:Z:767:TYR:HD2	35:Z:772:ILE:HG13	1.29	0.94
5:5:8:PHE:CZ	5:5:13:ILE:HD11	2.02	0.94
8:8:444:GLU:OE1	9:9:74:ARG:HD3	1.67	0.94
19:J:69:GLY:HA2	20:K:144:ASN:HD21	0.79	0.94
25:P:245:TYR:CE1	25:P:257:TRP:CE2	2.55	0.94
26:Q:314:PHE:CD2	26:Q:339:TYR:CD1	2.56	0.94
32:W:172:LEU:HD22	32:W:185:ILE:HA	1.49	0.94
33:X:75:TRP:HA	33:X:87:PHE:HE1	1.33	0.94
35:Z:56:LEU:HD22	35:Z:115:LEU:HD13	1.49	0.94
22:M:75:LEU:HD12	22:M:77:TYR:CD1	2.02	0.93
24:O:124:ASP:OD1	24:O:127:LEU:N	2.01	0.93
27:R:33:LEU:CD2	27:R:92:ILE:HD13	1.98	0.93
27:R:308:LEU:HD13	27:R:334:ARG:CZ	1.94	0.93
28:S:188:TYR:CZ	28:S:210:LEU:HD13	2.03	0.93
29:T:35:ILE:CD1	29:T:40:LEU:HD11	1.98	0.93
30:U:66:TRP:CZ3	30:U:68:LEU:CD1	2.50	0.93
35:Z:867:PHE:HE2	35:Z:871:HIS:HD1	1.10	0.93
1:1:1:THR:HG22	1:1:129:SER:H	1.32	0.93
1:1:19:ARG:NH1	1:1:29:ARG:HA	1.82	0.93
1:1:45:ARG:HH22	1:1:53:GLN:HB2	1.32	0.93
15:F:31:GLN:HA	22:M:430:VAL:CG1	1.98	0.93
13:D:159:TRP:CZ3	14:E:59:LEU:HD13	2.03	0.93
14:E:157:HIS:HE1	14:E:172:ILE:HG21	1.24	0.93
19:J:136:LEU:CD2	19:J:217:GLU:HG3	1.98	0.93
24:O:258:LEU:HD21	24:O:287:LEU:HD21	1.51	0.93
26:Q:331:THR:CG2	26:Q:335:PHE:HE2	1.81	0.93
29:T:28:PRO:HB2	29:T:29:PRO:HD3	1.49	0.93
35:Z:146:PHE:O	35:Z:210:TYR:OH	1.85	0.93
8:8:329:ILE:HA	17:H:163:VAL:HG21	0.94	0.93
18:I:228:GLY:HA3	18:I:350:PHE:CE1	2.04	0.93
8:8:212:GLU:OE2	9:9:72:ARG:HG3	1.67	0.93
16:G:182:HIS:CE1	16:G:186:LEU:HD12	2.04	0.93
18:I:358:LYS:HZ1	18:I:387:LEU:H	1.14	0.93
19:J:69:GLY:HA2	20:K:144:ASN:ND2	1.59	0.93
19:J:336:ASN:ND2	27:R:204:TRP:CD1	2.36	0.93
24:O:11:LEU:HD22	24:O:15:ARG:HH12	1.30	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O:210:ARG:HH22	24:O:242:ILE:HA	1.19	0.93
24:O:258:LEU:HD22	24:O:287:LEU:HD21	0.94	0.93
27:R:259:PHE:CD2	27:R:329:PHE:CE1	2.56	0.93
30:U:189:ARG:NH1	31:V:296:LEU:CD2	2.22	0.93
35:Z:193:PHE:HD2	35:Z:196:SER:HB2	1.33	0.93
35:Z:924:LYS:CA	35:Z:959:HIS:ND1	2.31	0.93
6:6:34:VAL:CG1	6:6:196:LEU:HD12	1.98	0.93
20:K:349:ARG:NH1	20:K:377:SER:N	2.16	0.93
21:L:325:MET:HE1	21:L:337:LEU:HD13	1.47	0.93
24:O:50:ASP:HA	24:O:53:LYS:NZ	1.84	0.93
35:Z:318:LYS:CE	35:Z:496:ALA:O	2.16	0.93
5:5:83:LEU:HD11	5:5:97:MET:HE1	1.51	0.93
11:B:139:HIS:CE1	11:B:145:PHE:CE2	2.57	0.93
18:I:132:ILE:HG12	18:I:156:ILE:HD12	1.49	0.93
27:R:353:MET:HE3	27:R:364:LEU:CD1	1.97	0.93
18:I:380:LEU:HA	18:I:420:LYS:HZ3	1.33	0.93
19:J:193:THR:HG21	19:J:316:PHE:HE1	1.27	0.93
19:J:219:VAL:HG21	20:K:284:ALA:N	1.84	0.93
32:W:5:ALA:HB2	32:W:103:ASN:HB2	1.44	0.93
3:3:-2:ASN:C	3:3:19:ARG:NH1	2.26	0.93
14:E:88:MET:CE	14:E:142:LEU:CD1	2.47	0.93
15:F:201:LEU:HD12	15:F:206:LEU:HD12	1.46	0.93
17:H:271:PHE:HZ	17:H:307:PHE:CD2	1.87	0.93
22:M:390:GLN:NE2	22:M:425:ARG:HB3	1.84	0.93
25:P:302:LEU:HB2	25:P:310:ARG:HH21	1.34	0.93
35:Z:506:LEU:HG	35:Z:530:LEU:HD11	1.51	0.93
7:7:8:TYR:CZ	7:7:11:GLY:HA3	2.04	0.93
17:H:261:ARG:NH2	17:H:273:ARG:NH2	2.16	0.93
24:O:69:PHE:HD2	24:O:78:VAL:CG2	1.82	0.93
29:T:209:LEU:HD13	29:T:211:PHE:CZ	2.04	0.93
20:K:68:ILE:HG12	23:N:608:LEU:HD23	1.50	0.92
26:Q:51:ARG:HD2	26:Q:96:VAL:HG21	1.51	0.92
31:V:117:TRP:CZ2	31:V:196:TYR:HA	2.04	0.92
35:Z:325:GLY:O	35:Z:326:VAL:HG22	1.69	0.92
10:A:77:ARG:HG3	10:A:78:THR:HG23	1.48	0.92
15:F:201:LEU:CD1	15:F:206:LEU:HD11	1.92	0.92
30:U:21:HIS:CE1	30:U:53:ALA:HB2	2.04	0.92
18:I:369:MET:HE1	18:I:416:PHE:CZ	2.05	0.92
26:Q:135:HIS:HB3	26:Q:161:LEU:HD22	1.51	0.92
30:U:18:ALA:HB1	30:U:93:TYR:OH	1.69	0.92
30:U:40:ASP:HB3	30:U:47:ARG:NH2	1.84	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:X:41:GLU:HB2	33:X:45:PHE:H	1.33	0.92
20:K:49:PHE:CE1	23:N:192:LEU:CG	2.52	0.92
21:L:370:LYS:HD2	21:L:374:PHE:CE1	2.04	0.92
26:Q:65:TYR:HB2	26:Q:74:LEU:HD22	1.51	0.92
28:S:175:SER:HB2	28:S:229:THR:OG1	1.68	0.92
29:T:197:TYR:CE1	29:T:235:PHE:CD1	2.57	0.92
30:U:35:GLY:N	30:U:93:TYR:HB3	1.84	0.92
30:U:40:ASP:HB3	30:U:47:ARG:HH21	1.31	0.92
35:Z:81:SER:O	35:Z:82:MET:CG	2.16	0.92
21:L:259:SER:HB3	21:L:303:ARG:HH22	1.35	0.92
22:M:385:GLU:CB	22:M:426:LYS:HZ3	1.79	0.92
26:Q:299:MET:CE	26:Q:335:PHE:HZ	1.83	0.92
33:X:11:ARG:HB2	33:X:103:GLU:HG3	1.49	0.92
16:G:140:VAL:HG11	16:G:220:LEU:HG	1.51	0.92
19:J:167:PRO:CA	19:J:174:PHE:CE1	2.51	0.92
28:S:191:HIS:NE2	28:S:206:GLN:HG3	1.85	0.92
28:S:425:ARG:NH1	29:T:155:GLY:HA2	1.83	0.92
29:T:197:TYR:CZ	29:T:199:PHE:CA	2.52	0.92
33:X:10:PHE:CE2	33:X:103:GLU:OE2	2.23	0.92
1:1:19:ARG:HH12	1:1:29:ARG:CG	1.82	0.92
7:7:107:ILE:HD11	7:7:136:THR:HG23	1.50	0.92
10:A:162:TYR:CZ	20:K:428:LYS:HB2	2.05	0.92
20:K:353:PHE:CD1	20:K:387:MET:SD	2.63	0.92
24:O:277:ILE:CG1	24:O:279:ILE:HB	2.00	0.92
29:T:193:THR:CB	29:T:226:TRP:CH2	2.51	0.92
30:U:66:TRP:CH2	30:U:68:LEU:HD12	2.04	0.92
33:X:41:GLU:CB	33:X:45:PHE:H	1.82	0.92
18:I:75:PHE:CD2	18:I:76:VAL:HG23	2.05	0.92
20:K:68:ILE:CD1	23:N:608:LEU:HD21	1.99	0.92
25:P:132:VAL:HA	25:P:171:MET:HE2	0.92	0.92
30:U:76:MET:HE2	31:V:94:MET:HE2	1.50	0.92
6:6:91:LYS:HD2	6:6:96:TYR:HH	1.17	0.91
18:I:100:ARG:C	18:I:104:LEU:HD11	1.96	0.91
26:Q:47:ASP:CA	26:Q:50:ARG:HB3	1.99	0.91
26:Q:174:LEU:HD11	26:Q:178:HIS:HE2	1.34	0.91
27:R:422:ARG:NH2	28:S:301:PRO:HD3	1.85	0.91
31:V:118:LEU:HD13	31:V:140:VAL:HB	1.52	0.91
26:Q:14:LEU:HD12	26:Q:26:VAL:HG21	1.51	0.91
27:R:312:TYR:HA	27:R:316:LEU:HD12	1.50	0.91
28:S:256:LYS:O	28:S:259:TYR:HE2	1.51	0.91
32:W:25:ARG:NH2	32:W:115:CYS:SG	2.43	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:8:116:ASN:C	9:9:76:GLZ:C	2.44	0.91
20:K:240:SER:HB2	21:L:306:MET:HE2	1.50	0.91
23:N:19:SER:HB3	29:T:35:ILE:HG21	1.44	0.91
23:N:43:LEU:HD21	23:N:69:TYR:CE1	2.05	0.91
29:T:216:GLU:CG	29:T:220:PHE:CE1	2.54	0.91
29:T:241:GLU:HA	29:T:246:GLU:HB2	1.52	0.91
35:Z:924:LYS:HB2	35:Z:959:HIS:HE1	0.76	0.91
17:H:172:MET:CE	18:I:129:TYR:HB2	2.00	0.91
18:I:361:ILE:HG22	18:I:392:ILE:CG2	1.99	0.91
19:J:167:PRO:CD	19:J:174:PHE:CZ	2.54	0.91
24:O:277:ILE:HG21	24:O:279:ILE:H	1.31	0.91
26:Q:331:THR:CG2	26:Q:335:PHE:CE2	2.53	0.91
30:U:16:LEU:HD22	31:V:209:GLU:OE2	1.68	0.91
32:W:182:TYR:O	32:W:183:GLU:CG	2.17	0.91
21:L:253:ASP:CA	22:M:256:ILE:HG13	2.01	0.91
28:S:188:TYR:CE2	28:S:210:LEU:HD13	2.05	0.91
30:U:19:LEU:HD12	30:U:127:GLN:CD	1.94	0.91
31:V:114:PHE:H	31:V:118:LEU:HD23	1.36	0.91
32:W:32:SER:O	32:W:36:ILE:HG12	1.71	0.91
4:4:26:VAL:CG1	4:4:28:LYS:O	2.18	0.91
22:M:365:SER:HB3	22:M:376:TRP:HZ2	1.33	0.91
19:J:166:LEU:C	19:J:174:PHE:HE1	1.77	0.91
24:O:66:VAL:HG12	24:O:106:PHE:CE1	2.06	0.91
26:Q:135:HIS:CB	26:Q:161:LEU:HD22	2.01	0.91
27:R:280:ILE:HD12	27:R:289:ILE:CG1	2.01	0.91
12:C:160:TRP:CZ3	12:C:163:ILE:HD13	2.05	0.91
24:O:250:TRP:CH2	24:O:270:ILE:HG23	2.05	0.91
26:Q:14:LEU:HD11	26:Q:26:VAL:HG21	0.92	0.91
27:R:31:PHE:CZ	27:R:182:ASN:ND2	2.39	0.91
30:U:5:HIS:ND1	30:U:6:GLU:N	2.19	0.91
30:U:94:HIS:CE1	30:U:96:GLY:CA	2.53	0.91
33:X:46:TRP:CZ2	33:X:132:SER:HA	2.06	0.91
35:Z:318:LYS:HZ3	35:Z:459:ALA:C	1.79	0.91
22:M:289:LYS:NZ	22:M:302:GLN:NE2	2.07	0.91
23:N:277:LEU:CD1	23:N:290:LEU:HD11	1.85	0.91
27:R:125:GLU:CD	27:R:126:GLY:N	2.29	0.91
35:Z:400:ILE:HD11	35:Z:418:ALA:HB1	1.52	0.91
1:1:19:ARG:HH12	1:1:29:ARG:HG3	1.21	0.91
16:G:182:HIS:CG	16:G:186:LEU:HG	2.05	0.91
21:L:309:LEU:HD22	21:L:342:ARG:HE	1.33	0.91
22:M:50:ARG:HB3	32:W:73:LEU:CD1	2.00	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O:69:PHE:CD2	24:O:78:VAL:CG2	2.53	0.91
35:Z:358:TYR:HD2	35:Z:428:TRP:HE1	0.91	0.91
16:G:53:ILE:HD11	16:G:212:GLU:HB2	1.53	0.90
23:N:479:GLU:HB2	23:N:512:ASN:CG	1.95	0.90
24:O:233:LEU:HD23	24:O:236:HIS:ND1	1.86	0.90
24:O:365:LYS:HB3	24:O:369:ARG:NH1	1.86	0.90
26:Q:269:LYS:NZ	26:Q:281:ILE:HD11	1.85	0.90
6:6:115:SER:CB	6:6:128:ARG:NH1	2.34	0.90
24:O:202:SER:O	24:O:203:THR:HG22	1.70	0.90
8:8:320:LYS:HE2	17:H:164:SER:HB3	0.92	0.90
29:T:193:THR:HG22	29:T:226:TRP:CH2	2.06	0.90
30:U:283:ARG:HH22	31:V:283:THR:HG22	1.34	0.90
3:3:-2:ASN:O	3:3:19:ARG:NH1	2.04	0.90
16:G:7:TYR:CE1	16:G:13:VAL:HG23	2.06	0.90
17:H:105:ILE:HG22	17:H:105:ILE:O	1.70	0.90
17:H:251:PRO:O	17:H:254:THR:HG23	1.70	0.90
20:K:49:PHE:CE1	23:N:192:LEU:HD12	2.06	0.90
24:O:103:LYS:O	24:O:129:ILE:CG1	2.19	0.90
24:O:133:ILE:CG1	24:O:137:TYR:CE2	2.54	0.90
26:Q:47:ASP:N	26:Q:50:ARG:HB3	1.86	0.90
30:U:152:LYS:CB	30:U:154:PHE:CZ	2.51	0.90
31:V:261:LEU:CD1	31:V:283:THR:CG2	2.48	0.90
32:W:9:VAL:O	32:W:113:PHE:HD2	1.52	0.90
1:1:176:VAL:HG13	1:1:183:VAL:CG1	2.00	0.90
3:3:59:ARG:HH21	12:C:99:LEU:HD11	1.37	0.90
20:K:210:LEU:HD11	20:K:212:TYR:CZ	2.07	0.90
20:K:364:PRO:CB	26:Q:247:HIS:NE2	2.26	0.90
24:O:79:VAL:CG1	24:O:118:GLY:HA2	2.02	0.90
27:R:171:MET:CE	27:R:206:ARG:HG3	2.00	0.90
35:Z:357:ILE:HG23	35:Z:960:GLY:O	1.72	0.90
4:4:95:ARG:HE	5:5:92:GLY:HA3	1.37	0.90
15:F:145:LEU:HD21	15:F:153:VAL:HG13	1.54	0.90
16:G:204:GLU:HA	16:G:207:LYS:HE2	1.52	0.90
27:R:241:ILE:HG22	27:R:242:GLU:HG3	1.52	0.90
29:T:216:GLU:CG	29:T:220:PHE:HE1	1.84	0.90
12:C:149:TYR:CE1	13:D:59:ILE:HD12	2.07	0.90
14:E:48:LEU:HD11	14:E:145:ALA:CB	2.00	0.90
18:I:387:LEU:HA	18:I:427:LYS:HZ2	1.37	0.90
24:O:277:ILE:HG21	24:O:279:ILE:HG12	0.90	0.90
24:O:293:LEU:O	24:O:297:ILE:HG13	1.70	0.90
29:T:89:TYR:CZ	29:T:102:LYS:NZ	2.40	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:T:226:TRP:HA	29:T:241:GLU:OE1	1.72	0.90
30:U:152:LYS:CB	30:U:154:PHE:CE1	2.32	0.90
32:W:132:LEU:HD22	32:W:137:VAL:HG11	1.52	0.90
1:1:8:PHE:HE2	1:1:10:ASP:CB	1.85	0.90
7:7:-3:VAL:HG11	7:7:49:ILE:HB	1.53	0.90
11:B:178:ARG:NH1	11:B:194:LEU:CB	2.34	0.90
23:N:406:TYR:HE1	23:N:448:LEU:HD13	1.12	0.90
24:O:358:ILE:HG22	24:O:359:SER:N	1.83	0.90
29:T:216:GLU:HG3	29:T:220:PHE:HE1	1.33	0.90
33:X:41:GLU:CG	33:X:45:PHE:HB2	2.02	0.90
15:F:120:THR:O	16:G:129:ARG:NH2	2.04	0.90
20:K:346:ARG:HE	20:K:372:ILE:HG21	1.37	0.90
31:V:53:MET:CE	31:V:65:VAL:HG11	2.02	0.90
31:V:154:ASP:HB3	31:V:156:PHE:CE1	2.06	0.90
32:W:21:PHE:HE1	32:W:144:PHE:HZ	1.15	0.90
15:F:153:VAL:HB	16:G:85:ARG:HH12	1.37	0.89
17:H:271:PHE:CZ	17:H:307:PHE:HD2	1.89	0.89
21:L:227:GLY:H	22:M:339:ARG:NH2	1.69	0.89
21:L:362:LYS:HA	21:L:376:PHE:CZ	2.07	0.89
12:C:160:TRP:CE2	12:C:163:ILE:HD13	2.06	0.89
16:G:94:GLU:OE2	16:G:118:TYR:OH	1.90	0.89
20:K:113:THR:CA	20:K:252:ARG:NH1	2.34	0.89
20:K:200:GLN:C	27:R:204:TRP:HZ2	1.78	0.89
23:N:399:PHE:HD1	23:N:441:VAL:CG1	1.85	0.89
24:O:4:ASN:HB2	24:O:39:PHE:HD1	1.36	0.89
24:O:124:ASP:OD2	24:O:127:LEU:CD1	2.20	0.89
31:V:117:TRP:NE1	31:V:196:TYR:HB2	1.82	0.89
21:L:362:LYS:HA	21:L:376:PHE:CE2	2.08	0.89
27:R:415:GLN:HG2	28:S:471:LEU:CD2	2.00	0.89
33:X:40:GLU:O	33:X:41:GLU:CG	2.19	0.89
34:Y:88:ASN:O	34:Y:89:GLN:HB3	1.70	0.89
35:Z:103:TYR:O	35:Z:112:LYS:NZ	2.06	0.89
35:Z:133:ASP:HB2	35:Z:137:TYR:CD2	2.07	0.89
27:R:190:LYS:HB2	27:R:213:TYR:OH	1.73	0.89
30:U:38:LEU:HB2	30:U:88:LYS:O	1.72	0.89
31:V:126:GLN:NE2	31:V:130:GLU:OE2	2.04	0.89
33:X:10:PHE:O	33:X:33:ILE:CG2	2.20	0.89
35:Z:348:LEU:HD11	35:Z:921:GLU:HG2	1.54	0.89
27:R:94:PHE:CZ	27:R:99:TYR:CZ	2.61	0.89
30:U:283:ARG:CZ	31:V:284:ALA:HA	2.01	0.89
18:I:106:ILE:CD1	19:J:85:LEU:HD22	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:I:400:GLY:HA3	19:J:179:ILE:HG13	1.53	0.89
21:L:227:GLY:N	22:M:339:ARG:NH2	2.18	0.89
25:P:181:LEU:CD2	25:P:219:GLU:HB3	2.00	0.89
29:T:226:TRP:CZ2	29:T:235:PHE:HE2	1.89	0.89
30:U:273:LEU:CD1	30:U:277:TYR:CZ	2.55	0.89
35:Z:218:GLU:HB2	35:Z:248:TYR:OH	1.68	0.89
6:6:175:VAL:O	6:6:179:PHE:CD2	2.25	0.89
7:7:121:TYR:HE2	7:7:136:THR:HG22	1.36	0.89
20:K:347:ARG:NH1	26:Q:205:ALA:CB	2.36	0.89
22:M:50:ARG:HA	32:W:73:LEU:CD1	2.02	0.89
30:U:161:ILE:CG2	30:U:162:GLU:N	2.27	0.89
16:G:166:LYS:HZ2	16:G:206:ASN:HA	1.38	0.89
19:J:69:GLY:H	20:K:144:ASN:ND2	1.69	0.89
19:J:136:LEU:HD22	19:J:217:GLU:CG	2.01	0.89
23:N:421:ASP:OD1	23:N:424:LYS:NZ	2.05	0.89
27:R:208:ASN:HD22	27:R:238:PHE:HD1	0.98	0.89
30:U:5:HIS:CG	30:U:6:GLU:H	1.91	0.89
35:Z:359:LYS:HZ2	35:Z:429:ASN:HD22	1.18	0.89
13:D:138:PHE:CE1	13:D:215:VAL:HG12	2.08	0.89
17:H:261:ARG:NH2	18:I:315:GLY:O	2.05	0.89
19:J:301:ASP:HB2	19:J:304:LEU:HG	1.54	0.89
20:K:358:SER:OG	26:Q:240:PHE:CE1	2.26	0.89
23:N:70:TYR:HE2	28:S:219:LYS:HE2	1.36	0.89
24:O:205:ILE:HD12	24:O:210:ARG:HD2	1.54	0.89
35:Z:193:PHE:CE2	35:Z:196:SER:HA	2.08	0.89
8:8:212:GLU:OE1	9:9:72:ARG:CD	2.20	0.88
19:J:193:THR:CG2	19:J:316:PHE:HE1	1.79	0.88
3:3:155:PHE:CE1	3:3:189:ARG:HD2	2.08	0.88
23:N:579:SER:HA	23:N:584:ARG:NH2	1.88	0.88
30:U:94:HIS:HE1	30:U:96:GLY:CA	1.85	0.88
32:W:180:LEU:HA	32:W:183:GLU:OE1	1.71	0.88
17:H:206:VAL:CG1	17:H:258:LEU:HD22	2.02	0.88
18:I:339:ILE:HD13	18:I:347:LYS:HE2	1.56	0.88
22:M:75:LEU:CG	22:M:77:TYR:HE1	1.84	0.88
25:P:273:TYR:OH	25:P:386:GLN:OE1	1.90	0.88
30:U:283:ARG:NH1	31:V:284:ALA:HA	1.88	0.88
23:N:666:GLN:HG3	23:N:873:ARG:HH21	1.35	0.88
24:O:370:LEU:HD13	30:U:204:LEU:HA	1.53	0.88
35:Z:358:TYR:CD2	35:Z:428:TRP:NE1	2.38	0.88
35:Z:868:ASN:HD21	35:Z:870:ALA:HB3	1.36	0.88
19:J:336:ASN:ND2	27:R:204:TRP:HE1	1.60	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:K:200:GLN:O	27:R:204:TRP:NE1	2.07	0.88
26:Q:162:LEU:HD11	26:Q:178:HIS:HE2	1.36	0.88
27:R:191:LEU:HB2	27:R:213:TYR:HE2	1.37	0.88
27:R:353:MET:HE3	27:R:364:LEU:CG	2.02	0.88
19:J:167:PRO:N	19:J:174:PHE:CZ	2.42	0.88
20:K:248:GLY:HA2	20:K:251:PRO:HG2	1.56	0.88
22:M:410:VAL:HG13	22:M:414:ASP:CB	2.02	0.88
24:O:277:ILE:CB	24:O:279:ILE:N	2.36	0.88
29:T:197:TYR:CE1	29:T:198:ASP:C	2.52	0.88
7:7:8:TYR:CE2	7:7:10:ASN:OD1	2.26	0.88
16:G:140:VAL:CB	16:G:220:LEU:HD21	2.02	0.88
20:K:281:ARG:HH12	20:K:287:GLY:N	1.71	0.88
22:M:368:MET:SD	22:M:395:THR:HG22	2.12	0.88
25:P:135:GLU:HG2	25:P:138:ARG:HH21	1.38	0.88
28:S:286:TYR:CE1	28:S:323:LEU:HB3	2.09	0.88
32:W:146:GLU:C	32:W:147:ILE:HG13	1.98	0.88
33:X:68:LEU:HD11	33:X:128:VAL:HB	1.52	0.88
8:8:320:LYS:HE3	17:H:164:SER:OG	1.73	0.88
10:A:162:TYR:CE2	20:K:428:LYS:HB2	2.08	0.88
16:G:121:ALA:O	16:G:125:TYR:HD1	1.56	0.88
19:J:167:PRO:HG3	19:J:174:PHE:CE2	2.09	0.88
20:K:347:ARG:NH1	26:Q:205:ALA:HB3	1.87	0.88
22:M:361:LEU:HB3	22:M:376:TRP:CE2	2.09	0.88
6:6:14:LEU:HD23	6:6:34:VAL:HG13	1.55	0.88
21:L:111:GLU:HG2	21:L:117:TYR:CD2	2.08	0.88
26:Q:82:THR:O	26:Q:85:MET:HG2	1.73	0.88
32:W:21:PHE:CZ	32:W:144:PHE:CZ	2.61	0.88
35:Z:133:ASP:CB	35:Z:137:TYR:CD2	2.57	0.88
22:M:77:TYR:CE2	22:M:159:LEU:HD11	2.07	0.88
22:M:289:LYS:HZ3	22:M:334:ASP:HB2	1.36	0.88
23:N:602:VAL:O	23:N:606:VAL:HG22	1.74	0.88
29:T:1:MET:HB3	29:T:2:PRO:HD3	0.91	0.88
29:T:62:LEU:HD12	29:T:88:TYR:CE2	2.09	0.88
35:Z:237:VAL:HG12	35:Z:245:VAL:HG12	1.56	0.88
22:M:50:ARG:CB	32:W:73:LEU:CD1	2.52	0.87
32:W:71:LYS:HA	32:W:74:ALA:HB3	1.57	0.87
1:1:66:TYR:HE2	1:1:73:PRO:HA	1.37	0.87
23:N:479:GLU:CB	23:N:512:ASN:HD21	1.87	0.87
24:O:3:ASN:HB2	24:O:39:PHE:CZ	2.09	0.87
27:R:422:ARG:HH12	28:S:301:PRO:HG3	1.37	0.87
35:Z:64:TYR:CE1	35:Z:68:LEU:HD11	2.09	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:Z:359:LYS:NZ	35:Z:429:ASN:HD22	1.72	0.87
35:Z:493:LEU:CD1	35:Z:497:PHE:CD2	2.57	0.87
18:I:366:THR:HG21	18:I:377:LEU:HD21	1.55	0.87
21:L:259:SER:CB	21:L:303:ARG:HH12	1.88	0.87
30:U:66:TRP:HZ3	30:U:68:LEU:CB	1.87	0.87
10:A:81:MET:SD	10:A:143:PHE:CE2	2.67	0.87
17:H:66:LYS:HG2	18:I:99:ILE:HD13	1.56	0.87
22:M:368:MET:SD	22:M:395:THR:HG21	2.15	0.87
28:S:145:PHE:O	28:S:149:SER:OG	1.91	0.87
32:W:5:ALA:HB3	32:W:103:ASN:HB2	1.57	0.87
20:K:155:ASP:O	21:L:126:ARG:CZ	2.23	0.87
23:N:579:SER:HA	23:N:584:ARG:CZ	2.04	0.87
27:R:353:MET:CE	27:R:364:LEU:HD11	2.04	0.87
24:O:185:PHE:CE2	24:O:219:ILE:HG22	2.09	0.87
24:O:373:TRP:HZ3	30:U:233:PHE:HB3	0.73	0.87
30:U:5:HIS:HD1	30:U:6:GLU:H	1.20	0.87
35:Z:133:ASP:CA	35:Z:137:TYR:CD1	2.52	0.87
10:A:130:GLN:HB3	11:B:127:VAL:HG23	1.57	0.87
15:F:166:GLN:CA	22:M:381:ARG:NH2	2.37	0.87
20:K:169:VAL:H	21:L:315:PHE:HE1	1.23	0.87
21:L:259:SER:HB2	21:L:303:ARG:HH12	1.35	0.87
24:O:25:LEU:O	24:O:29:PHE:CG	2.28	0.87
32:W:147:ILE:O	32:W:147:ILE:HG22	1.74	0.87
17:H:253:GLY:HA2	18:I:314:ASP:OD1	1.74	0.87
22:M:410:VAL:HG13	22:M:414:ASP:HB2	1.55	0.87
24:O:153:LEU:HD13	24:O:174:THR:HG21	0.88	0.87
24:O:188:PHE:CD2	24:O:220:SER:HB3	2.09	0.87
29:T:55:LEU:CG	29:T:59:LYS:HE2	2.05	0.87
35:Z:55:ARG:NH1	35:Z:63:LEU:HD22	1.89	0.87
35:Z:244:ARG:O	35:Z:248:TYR:HD1	1.58	0.87
35:Z:321:PHE:CE2	35:Z:351:PRO:CD	2.58	0.87
10:A:220:LYS:HD3	10:A:242:GLU:HB2	1.55	0.86
18:I:132:ILE:HD12	18:I:138:LYS:HE2	0.94	0.86
19:J:115:LEU:HB2	19:J:122:LEU:HD23	1.57	0.86
24:O:80:LYS:CE	24:O:81:TYR:CZ	2.51	0.86
25:P:203:ILE:CG2	25:P:220:TYR:CE1	2.58	0.86
25:P:369:LEU:HB3	25:P:371:LEU:HD12	1.55	0.86
26:Q:65:TYR:CD2	26:Q:74:LEU:HB2	2.08	0.86
32:W:168:THR:HG22	32:W:169:SER:HB3	1.57	0.86
1:1:119:VAL:CB	16:G:103:LYS:HZ2	1.88	0.86
17:H:155:PHE:HE1	22:M:77:TYR:N	1.73	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O:66:VAL:HG12	24:O:106:PHE:HE1	1.39	0.86
27:R:171:MET:SD	27:R:194:VAL:HG21	2.14	0.86
31:V:52:LEU:CD1	31:V:107:TRP:CZ3	2.56	0.86
33:X:66:LEU:CD1	33:X:99:PHE:CZ	2.58	0.86
2:2:82:MET:O	2:2:86:HIS:CD2	2.28	0.86
4:4:43:MET:CG	4:4:45:PHE:CZ	2.58	0.86
18:I:400:GLY:N	19:J:179:ILE:HD11	1.90	0.86
23:N:399:PHE:HD1	23:N:441:VAL:HG21	1.36	0.86
23:N:479:GLU:HB2	23:N:512:ASN:HD21	1.34	0.86
26:Q:46:VAL:C	26:Q:50:ARG:CB	2.47	0.86
28:S:163:VAL:CG2	28:S:184:TRP:CZ3	2.50	0.86
30:U:152:LYS:HB3	30:U:154:PHE:CE1	2.06	0.86
33:X:46:TRP:HZ2	33:X:132:SER:CA	1.86	0.86
2:2:8:PHE:CE1	2:2:12:VAL:N	2.42	0.86
6:6:116:PHE:CE2	6:6:122:TYR:HB3	2.11	0.86
14:E:125:GLU:OE1	15:F:123:TYR:CD1	2.27	0.86
22:M:163:PHE:CE1	22:M:261:LYS:HG2	2.10	0.86
29:T:155:GLY:O	29:T:156:SER:CB	2.23	0.86
3:3:26:GLY:HA3	3:3:174:TRP:CZ2	2.09	0.86
11:B:27:ALA:CB	20:K:426:PHE:HE1	1.88	0.86
13:D:11:PHE:CZ	14:E:137:PRO:HD2	2.10	0.86
19:J:193:THR:HB	19:J:316:PHE:CE1	2.02	0.86
23:N:714:THR:HG23	23:N:756:THR:OG1	1.75	0.86
28:S:256:LYS:O	28:S:259:TYR:CZ	2.27	0.86
28:S:436:ILE:HD12	28:S:438:HIS:NE2	1.91	0.86
32:W:21:PHE:CG	32:W:25:ARG:HA	2.10	0.86
15:F:179:PHE:HE1	15:F:188:GLU:OE2	1.59	0.86
20:K:49:PHE:HE1	23:N:192:LEU:CG	1.88	0.86
22:M:77:TYR:CE2	22:M:159:LEU:HD13	2.10	0.86
22:M:385:GLU:CB	22:M:426:LYS:HZ2	1.85	0.86
23:N:202:PHE:CE2	23:N:206:ILE:HD11	2.11	0.86
26:Q:90:LYS:HD3	26:Q:129:LYS:HZ1	1.40	0.86
30:U:283:ARG:NH1	31:V:284:ALA:N	2.24	0.86
32:W:21:PHE:HZ	32:W:144:PHE:CE1	1.93	0.86
32:W:59:PRO:HB2	32:W:93:ILE:HG21	1.55	0.86
32:W:143:ASN:CB	32:W:173:THR:HA	2.05	0.86
33:X:85:ARG:NH2	33:X:116:ALA:H	1.72	0.86
4:4:66:TYR:HE1	4:4:74:LEU:HD21	1.29	0.86
8:8:329:ILE:CG1	17:H:163:VAL:HG21	2.05	0.86
19:J:115:LEU:HD21	19:J:120:TYR:CA	2.04	0.86
23:N:365:PHE:CZ	23:N:406:TYR:HB2	2.10	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:K:68:ILE:CG1	23:N:608:LEU:CD2	2.54	0.86
20:K:210:LEU:CG	20:K:212:TYR:CZ	2.56	0.86
23:N:514:THR:HG22	23:N:546:LEU:HD13	1.57	0.86
26:Q:299:MET:HE1	26:Q:335:PHE:CZ	2.11	0.86
30:U:16:LEU:CD2	31:V:209:GLU:HG2	2.05	0.86
32:W:37:PHE:HE1	32:W:49:VAL:HG11	1.36	0.86
33:X:17:TYR:CE1	33:X:19:GLU:OE1	2.29	0.86
8:8:253:LYS:HZ1	9:9:64:GLU:HB2	1.38	0.86
20:K:95:VAL:HG13	20:K:139:LEU:HB2	1.58	0.86
21:L:426:LYS:HG3	21:L:427:LYS:H	1.40	0.86
22:M:77:TYR:HE2	22:M:159:LEU:HD13	1.39	0.86
7:7:150:VAL:HG12	7:7:151:VAL:HG23	1.58	0.86
12:C:239:LEU:HB3	12:C:245:THR:HG22	1.55	0.86
16:G:140:VAL:HG21	16:G:220:LEU:HD23	1.57	0.86
24:O:306:ARG:HG3	24:O:351:SER:HA	1.56	0.86
24:O:370:LEU:HD11	30:U:207:VAL:HG21	1.58	0.86
24:O:79:VAL:CB	24:O:121:ASP:O	2.23	0.85
26:Q:314:PHE:CD2	26:Q:339:TYR:HD1	1.94	0.85
28:S:211:ARG:CZ	28:S:240:ASP:HB3	2.04	0.85
30:U:92:TRP:CD1	30:U:119:LEU:O	2.28	0.85
8:8:212:GLU:CD	9:9:72:ARG:CD	2.49	0.85
17:H:146:VAL:HG12	17:H:155:PHE:HB3	1.57	0.85
17:H:271:PHE:HE1	17:H:273:ARG:HB2	1.39	0.85
19:J:115:LEU:HD12	19:J:122:LEU:CD2	2.06	0.85
22:M:203:ARG:HB3	22:M:206:LYS:HD2	1.54	0.85
24:O:42:SER:OG	24:O:50:ASP:HB2	1.75	0.85
25:P:245:TYR:CD1	25:P:257:TRP:NE1	2.40	0.85
35:Z:419:VAL:O	35:Z:422:ILE:HG12	1.75	0.85
8:8:212:GLU:OE2	9:9:72:ARG:CD	2.24	0.85
18:I:222:TYR:CZ	18:I:349:LEU:HA	2.11	0.85
20:K:113:THR:HA	20:K:252:ARG:HH12	1.40	0.85
24:O:214:ALA:HB3	24:O:248:TYR:OH	1.75	0.85
29:T:250:MET:O	29:T:251:HIS:CD2	2.29	0.85
13:D:96:HIS:CD2	13:D:100:LEU:CD1	2.58	0.85
21:L:111:GLU:HG2	21:L:117:TYR:HD2	1.41	0.85
26:Q:174:LEU:CD1	26:Q:178:HIS:NE2	2.38	0.85
26:Q:202:ARG:HH21	26:Q:222:SER:CB	1.89	0.85
29:T:59:LYS:HD2	29:T:97:SER:O	1.75	0.85
29:T:224:ARG:O	29:T:225:ASN:CB	2.25	0.85
30:U:104:LEU:HB2	30:U:152:LYS:HG2	1.58	0.85
35:Z:737:ALA:CA	35:Z:775:MET:HE2	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:I:252:LEU:CA	18:I:253:ILE:N	2.38	0.85
19:J:219:VAL:HB	20:K:281:ARG:NE	1.90	0.85
26:Q:311:LEU:CD1	26:Q:366:ILE:HG12	2.05	0.85
32:W:59:PRO:HG2	32:W:93:ILE:HG13	0.88	0.85
14:E:165:TYR:HB2	14:E:167:TYR:OH	1.75	0.85
19:J:241:ALA:HB1	19:J:287:ASN:ND2	1.91	0.85
21:L:132:ARG:HH22	21:L:156:MET:HG3	1.38	0.85
33:X:16:GLU:HB3	33:X:27:ILE:HB	1.56	0.85
4:4:43:MET:SD	4:4:45:PHE:HZ	1.98	0.85
6:6:10:ASP:OD1	6:6:11:PHE:CD1	2.28	0.85
15:F:65:LYS:HD3	15:F:222:PHE:HE2	1.42	0.85
25:P:308:LEU:HD23	25:P:369:LEU:HD23	1.59	0.85
30:U:161:ILE:HG22	30:U:162:GLU:H	0.75	0.85
35:Z:286:VAL:O	35:Z:287:ARG:HB3	1.74	0.85
35:Z:550:PHE:CD1	35:Z:562:TRP:CZ3	2.64	0.85
29:T:197:TYR:OH	29:T:199:PHE:HA	1.75	0.85
35:Z:133:ASP:CB	35:Z:137:TYR:CE2	2.58	0.85
35:Z:737:ALA:HB1	35:Z:775:MET:SD	2.17	0.85
18:I:340:ARG:CZ	18:I:343:ARG:HG3	2.03	0.85
19:J:234:PHE:CZ	19:J:279:LEU:CD2	2.58	0.85
24:O:42:SER:O	24:O:46:THR:CG2	2.24	0.85
24:O:358:ILE:CG2	24:O:359:SER:N	2.39	0.85
25:P:311:TRP:HH2	25:P:338:TRP:HE1	1.23	0.85
26:Q:46:VAL:O	26:Q:50:ARG:CB	2.24	0.85
28:S:230:LYS:NZ	28:S:256:LYS:HE3	1.91	0.85
31:V:261:LEU:HD21	31:V:283:THR:CG2	2.06	0.85
14:E:178:GLY:HA3	17:H:409:ARG:NH2	1.92	0.85
20:K:244:HIS:CE1	20:K:250:GLY:CA	2.60	0.85
30:U:19:LEU:CD1	30:U:127:GLN:OE1	2.25	0.85
31:V:165:ILE:HG21	31:V:189:ILE:HG21	1.58	0.85
20:K:158:ILE:CG2	21:L:256:ILE:HG23	2.06	0.84
24:O:26:PHE:HA	24:O:61:LEU:HD21	1.56	0.84
24:O:79:VAL:CB	24:O:122:HIS:CA	2.52	0.84
25:P:207:THR:OG1	25:P:217:LYS:NZ	2.09	0.84
27:R:320:LYS:HE3	27:R:324:ARG:CD	2.06	0.84
29:T:225:ASN:HD22	29:T:241:GLU:HA	1.40	0.84
1:1:66:TYR:HE2	1:1:73:PRO:CA	1.90	0.84
18:I:281:ILE:HG22	18:I:284:ILE:CD1	2.06	0.84
18:I:400:GLY:H	19:J:179:ILE:HD11	1.40	0.84
32:W:37:PHE:CE1	32:W:49:VAL:CG1	2.55	0.84
33:X:35:ILE:CG1	33:X:124:LYS:HE2	2.05	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:X:41:GLU:HG3	33:X:45:PHE:HB2	1.60	0.84
35:Z:737:ALA:HA	35:Z:775:MET:HE2	1.59	0.84
13:D:78:LEU:HD23	18:I:436:TYR:HE1	1.42	0.84
20:K:392:LEU:HG	20:K:396:ARG:NH1	1.92	0.84
30:U:56:PHE:CD1	30:U:68:LEU:CD2	2.45	0.84
31:V:238:LEU:HD11	31:V:242:LYS:HE3	1.59	0.84
11:B:139:HIS:ND1	11:B:145:PHE:CE2	2.45	0.84
19:J:69:GLY:N	20:K:144:ASN:HD22	1.72	0.84
24:O:277:ILE:CB	24:O:279:ILE:H	1.88	0.84
26:Q:14:LEU:HD13	26:Q:26:VAL:CG2	2.05	0.84
26:Q:382:LEU:HD11	27:R:299:SER:CB	2.08	0.84
35:Z:55:ARG:CZ	35:Z:63:LEU:HD22	2.07	0.84
10:A:104:PHE:CE2	10:A:110:TYR:O	2.31	0.84
18:I:244:PHE:HE1	18:I:246:ARG:HG2	1.42	0.84
26:Q:146:TYR:CD1	26:Q:151:TYR:HE1	1.95	0.84
30:U:92:TRP:CE3	30:U:110:PHE:CE2	2.65	0.84
11:B:66:LEU:HD12	11:B:71:ILE:O	1.77	0.84
19:J:336:ASN:HD22	27:R:204:TRP:CD1	1.95	0.84
20:K:49:PHE:CE1	23:N:192:LEU:CD1	2.60	0.84
26:Q:130:ARG:NH2	26:Q:133:LEU:HD12	1.93	0.84
26:Q:250:THR:HG23	26:Q:251:THR:N	1.93	0.84
35:Z:805:LEU:HB3	35:Z:893:PHE:CE1	2.13	0.84
1:1:176:VAL:CG1	1:1:183:VAL:CG1	2.56	0.84
8:8:320:LYS:HE3	17:H:164:SER:CA	2.06	0.84
10:A:119:LYS:HG2	10:A:163:TYR:CE2	2.13	0.84
14:E:201:LEU:HD11	14:E:239:LEU:CG	2.06	0.84
26:Q:85:MET:HE2	26:Q:93:THR:HA	1.60	0.84
27:R:63:TYR:HH	27:R:92:ILE:C	1.84	0.84
17:H:284:VAL:CG1	22:M:252:VAL:HG12	2.08	0.84
22:M:75:LEU:HD11	22:M:77:TYR:CZ	2.11	0.84
22:M:368:MET:SD	22:M:395:THR:HG23	2.15	0.84
23:N:399:PHE:CD1	23:N:441:VAL:HG11	2.11	0.84
23:N:490:LEU:HD21	23:N:526:TYR:CD2	2.13	0.84
26:Q:46:VAL:HG23	26:Q:50:ARG:CB	2.08	0.84
27:R:308:LEU:HD12	27:R:334:ARG:HH12	1.38	0.84
10:A:57:LYS:HZ1	10:A:69:VAL:HB	1.39	0.84
14:E:88:MET:CE	14:E:142:LEU:HD11	2.07	0.84
14:E:157:HIS:CD2	14:E:170:LYS:NZ	2.46	0.84
24:O:25:LEU:O	24:O:29:PHE:CD2	2.31	0.84
27:R:342:LEU:HG	27:R:392:ARG:HH21	1.41	0.84
17:H:261:ARG:HH22	17:H:273:ARG:NH2	1.74	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:N:21:LYS:CE	23:N:55:PHE:CE2	2.61	0.83
24:O:124:ASP:CB	24:O:127:LEU:HB2	2.07	0.83
24:O:223:LEU:HD11	24:O:277:ILE:CD1	2.07	0.83
24:O:233:LEU:CD2	24:O:236:HIS:ND1	2.41	0.83
25:P:134:VAL:CG2	25:P:138:ARG:HH12	1.90	0.83
29:T:264:MET:HE2	31:V:295:VAL:HG12	1.60	0.83
35:Z:563:VAL:HG11	35:Z:595:MET:HE3	1.59	0.83
7:7:95:ARG:NH1	7:7:102:LEU:HD13	1.93	0.83
13:D:70:HIS:HD2	13:D:138:PHE:O	1.62	0.83
23:N:782:PHE:CD1	23:N:875:LEU:CD2	2.61	0.83
24:O:105:GLN:HA	24:O:108:GLU:OE2	1.78	0.83
24:O:344:VAL:O	24:O:345:ASN:CG	2.22	0.83
35:Z:72:LYS:HE2	35:Z:117:ASP:OD2	1.77	0.83
1:1:19:ARG:NH1	1:1:29:ARG:CB	2.40	0.83
8:8:212:GLU:OE2	9:9:72:ARG:HD3	1.78	0.83
8:8:282:GLU:C	9:9:12:THR:CB	2.33	0.83
17:H:155:PHE:HE1	22:M:77:TYR:H	1.24	0.83
24:O:42:SER:C	24:O:46:THR:HB	2.02	0.83
35:Z:400:ILE:HD12	35:Z:418:ALA:HB1	1.58	0.83
7:7:55:ILE:HD11	7:7:102:LEU:HD21	1.59	0.83
20:K:188:VAL:HA	20:K:313:LYS:NZ	1.92	0.83
24:O:124:ASP:HB3	24:O:127:LEU:CB	2.07	0.83
24:O:306:ARG:HD2	24:O:352:TRP:N	1.93	0.83
25:P:221:TYR:HE2	25:P:244:ILE:HB	1.43	0.83
35:Z:55:ARG:HD3	35:Z:63:LEU:HB3	1.58	0.83
7:7:107:ILE:CD1	7:7:136:THR:HG23	2.07	0.83
21:L:370:LYS:HB2	21:L:374:PHE:HZ	1.38	0.83
25:P:308:LEU:CD2	25:P:369:LEU:HD23	2.09	0.83
32:W:172:LEU:CD2	32:W:185:ILE:HA	2.07	0.83
33:X:17:TYR:HE1	33:X:19:GLU:CD	1.86	0.83
7:7:13:ILE:CG2	7:7:169:ILE:HG13	2.08	0.83
14:E:231:TYR:CE2	14:E:236:THR:CA	2.62	0.83
27:R:280:ILE:CD1	27:R:289:ILE:HG13	2.05	0.83
30:U:189:ARG:HH12	31:V:296:LEU:HD23	1.38	0.83
8:8:116:ASN:C	9:9:76:GLZ:CA	2.52	0.83
17:H:175:GLY:C	17:H:183:ILE:HB	2.02	0.83
20:K:113:THR:CA	20:K:252:ARG:HH12	1.92	0.83
20:K:240:SER:N	21:L:306:MET:HE1	1.93	0.83
24:O:306:ARG:CG	24:O:352:TRP:N	2.42	0.83
27:R:208:ASN:HD21	27:R:238:PHE:HB2	1.42	0.83
28:S:471:LEU:HD12	30:U:288:PHE:HZ	1.38	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:59:ARG:NH2	12:C:99:LEU:CD1	2.31	0.83
4:4:66:TYR:CD1	4:4:74:LEU:HD11	2.13	0.83
5:5:6:PHE:CZ	5:5:13:ILE:HB	2.13	0.83
8:8:444:GLU:CB	9:9:74:ARG:HD2	1.77	0.83
19:J:375:ILE:O	27:R:204:TRP:CD1	2.32	0.83
24:O:43:GLU:CD	24:O:44:SER:HB2	2.02	0.83
29:T:197:TYR:CD1	29:T:235:PHE:CD1	2.66	0.83
32:W:186:ALA:O	32:W:192:LEU:HB2	1.79	0.83
8:8:212:GLU:HG2	9:9:42:ARG:NH1	1.94	0.83
18:I:244:PHE:CE1	18:I:246:ARG:HG2	2.14	0.83
22:M:170:MET:HE1	22:M:269:LEU:HD12	1.59	0.83
24:O:79:VAL:HG11	24:O:121:ASP:O	1.79	0.83
24:O:83:LEU:HD11	24:O:128:LEU:HD22	1.59	0.83
26:Q:85:MET:CE	26:Q:93:THR:HA	2.08	0.83
29:T:193:THR:CG2	29:T:226:TRP:CZ2	2.62	0.83
35:Z:260:GLU:HG2	35:Z:611:THR:HG21	1.60	0.83
8:8:253:LYS:HZ2	9:9:64:GLU:HB3	1.43	0.83
8:8:443:SER:OG	9:9:72:ARG:C	2.13	0.83
29:T:197:TYR:HE2	29:T:235:PHE:HE1	1.26	0.83
19:J:183:LYS:HA	19:J:286:LYS:HE3	1.61	0.82
25:P:134:VAL:HG23	25:P:138:ARG:HH12	1.43	0.82
28:S:176:LEU:HD11	28:S:179:ILE:HB	1.61	0.82
29:T:1:MET:CB	29:T:2:PRO:HD2	2.09	0.82
35:Z:924:LYS:HA	35:Z:959:HIS:CE1	2.09	0.82
5:5:135:PHE:HE2	5:5:163:ALA:CB	1.90	0.82
17:H:167:ASP:HB3	17:H:186:PRO:HG2	1.60	0.82
18:I:106:ILE:HD11	19:J:85:LEU:HD22	1.57	0.82
23:N:514:THR:HG22	23:N:546:LEU:CD1	2.09	0.82
24:O:130:ASP:O	24:O:133:ILE:HG22	1.79	0.82
26:Q:299:MET:CE	26:Q:335:PHE:CZ	2.62	0.82
30:U:92:TRP:CE2	30:U:120:LEU:HD13	2.13	0.82
33:X:8:ILE:CG2	33:X:124:LYS:HD2	2.08	0.82
15:F:166:GLN:HB3	22:M:381:ARG:CZ	2.09	0.82
18:I:262:ARG:HB3	19:J:223:ILE:HD12	1.60	0.82
20:K:254:VAL:HG13	20:K:258:PHE:HE1	1.41	0.82
24:O:79:VAL:HB	24:O:122:HIS:CA	2.10	0.82
24:O:358:ILE:HG22	24:O:360:GLY:N	1.92	0.82
12:C:42:ASP:HA	12:C:218:LYS:NZ	1.94	0.82
12:C:160:TRP:CZ3	12:C:163:ILE:CD1	2.62	0.82
13:D:96:HIS:NE2	13:D:100:LEU:CD1	2.42	0.82
14:E:88:MET:HE2	14:E:142:LEU:HD11	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:E:157:HIS:CD2	14:E:170:LYS:HZ3	1.97	0.82
19:J:219:VAL:O	20:K:281:ARG:CD	2.19	0.82
19:J:219:VAL:HG21	20:K:284:ALA:HB2	1.53	0.82
22:M:313:ASP:HA	22:M:316:SER:OG	1.79	0.82
27:R:31:PHE:HZ	27:R:182:ASN:ND2	1.74	0.82
29:T:197:TYR:CE2	29:T:199:PHE:C	2.58	0.82
31:V:258:GLU:HA	31:V:261:LEU:HD12	1.60	0.82
12:C:29:ILE:HD13	12:C:134:SER:HB3	1.61	0.82
15:F:198:SER:HB3	15:F:206:LEU:HD22	1.60	0.82
25:P:132:VAL:CA	25:P:171:MET:CE	2.31	0.82
25:P:196:ALA:HB1	25:P:227:ILE:CD1	2.08	0.82
25:P:234:TYR:CE2	25:P:267:PHE:CE1	2.67	0.82
31:V:113:GLY:HA2	31:V:118:LEU:HD22	1.59	0.82
33:X:17:TYR:HE1	33:X:19:GLU:OE1	1.62	0.82
35:Z:491:LEU:HD11	35:Z:900:LEU:CD1	2.09	0.82
19:J:37:LYS:HE3	20:K:58:TYR:CZ	2.15	0.82
20:K:347:ARG:NE	26:Q:215:VAL:HG13	1.94	0.82
22:M:163:PHE:CD1	22:M:261:LYS:HE3	2.14	0.82
25:P:234:TYR:CD2	25:P:267:PHE:CD1	2.68	0.82
25:P:241:LEU:O	25:P:244:ILE:CG2	2.27	0.82
26:Q:46:VAL:C	26:Q:50:ARG:HB3	2.05	0.82
28:S:421:TYR:CD2	29:T:157:TYR:HB2	2.13	0.82
29:T:23:CYS:O	29:T:27:LEU:HG	1.79	0.82
30:U:223:HIS:ND1	30:U:224:THR:CB	2.42	0.82
31:V:114:PHE:CE1	31:V:118:LEU:O	2.31	0.82
35:Z:491:LEU:HD13	35:Z:900:LEU:HD12	1.60	0.82
14:E:88:MET:CE	14:E:142:LEU:HD12	2.08	0.82
23:N:277:LEU:CB	23:N:287:LEU:CD2	2.54	0.82
27:R:308:LEU:HD13	27:R:334:ARG:NE	1.93	0.82
29:T:197:TYR:CE2	29:T:200:LEU:N	2.47	0.82
32:W:5:ALA:CB	32:W:103:ASN:CB	2.50	0.82
7:7:-3:VAL:CG1	7:7:49:ILE:HB	2.09	0.82
8:8:282:GLU:OE1	9:9:12:THR:HG23	1.79	0.82
15:F:105:VAL:HG11	15:F:143:HIS:HD1	1.45	0.82
26:Q:382:LEU:CD1	27:R:299:SER:HB2	2.09	0.82
35:Z:446:GLU:HG3	35:Z:484:LYS:HZ2	1.42	0.82
35:Z:535:VAL:HG23	35:Z:572:ILE:O	1.80	0.82
14:E:165:TYR:HB2	14:E:167:TYR:HE1	1.41	0.82
20:K:240:SER:HB2	21:L:306:MET:CE	2.10	0.82
23:N:365:PHE:HZ	23:N:406:TYR:HB2	1.44	0.82
24:O:137:TYR:HB3	24:O:149:LEU:HD11	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:R:214:TYR:HH	27:R:226:GLU:HB3	1.45	0.82
35:Z:397:ASP:HB3	35:Z:425:ILE:HD13	1.61	0.82
1:1:137:TYR:CZ	1:1:157:HIS:HD2	1.96	0.82
15:F:65:LYS:CD	15:F:222:PHE:CE2	2.62	0.82
20:K:49:PHE:HD1	23:N:192:LEU:CD1	1.91	0.82
23:N:21:LYS:CE	23:N:55:PHE:CZ	2.62	0.82
24:O:341:ILE:HG13	24:O:348:VAL:HA	1.60	0.82
25:P:241:LEU:C	25:P:244:ILE:HG22	2.04	0.82
35:Z:218:GLU:HB2	35:Z:248:TYR:CE2	2.15	0.82
35:Z:471:LEU:HG	35:Z:497:PHE:CZ	2.15	0.82
24:O:80:LYS:CE	24:O:81:TYR:OH	2.28	0.81
25:P:76:ASN:HD21	25:P:118:VAL:HG21	1.43	0.81
25:P:270:LEU:HD22	25:P:340:ASP:HB2	1.62	0.81
26:Q:186:HIS:O	26:Q:189:ARG:NH2	2.12	0.81
28:S:471:LEU:HD13	30:U:288:PHE:CZ	2.12	0.81
33:X:66:LEU:CD1	33:X:99:PHE:HZ	1.91	0.81
35:Z:422:ILE:HB	35:Z:426:TYR:HE2	1.45	0.81
1:1:19:ARG:NH2	1:1:26:ILE:HG21	1.95	0.81
22:M:357:ARG:NH2	22:M:386:PHE:H	1.78	0.81
25:P:184:MET:SD	25:P:223:LEU:HD13	2.19	0.81
25:P:234:TYR:CE2	25:P:267:PHE:CD1	2.68	0.81
11:B:139:HIS:ND1	11:B:145:PHE:CZ	2.48	0.81
21:L:178:ILE:CD1	21:L:230:LEU:HD22	2.09	0.81
21:L:227:GLY:N	22:M:339:ARG:HH21	1.76	0.81
23:N:664:LEU:O	23:N:706:MET:HE1	1.80	0.81
24:O:73:ILE:HG23	24:O:74:ASN:N	1.88	0.81
26:Q:7:LYS:HG3	26:Q:30:LEU:CD1	2.10	0.81
27:R:58:GLU:OE2	27:R:105:LYS:HB3	1.80	0.81
30:U:94:HIS:CE1	30:U:96:GLY:H	1.97	0.81
30:U:283:ARG:NH1	31:V:284:ALA:CA	2.43	0.81
35:Z:493:LEU:HD12	35:Z:497:PHE:CD2	2.16	0.81
35:Z:970:TYR:OH	35:Z:992:GLU:O	1.99	0.81
10:A:84:ASN:ND2	10:A:171:THR:HG21	1.95	0.81
27:R:63:TYR:OH	27:R:92:ILE:O	1.97	0.81
28:S:341:SER:O	28:S:344:PRO:HG2	1.80	0.81
19:J:142:VAL:HG13	19:J:204:HIS:CE1	2.16	0.81
21:L:309:LEU:HD21	21:L:342:ARG:HD3	1.62	0.81
22:M:62:ILE:HG13	22:M:66:LYS:HE3	1.63	0.81
27:R:94:PHE:HE2	27:R:96:GLN:HG2	1.45	0.81
27:R:422:ARG:NH1	28:S:301:PRO:CG	2.39	0.81
35:Z:530:LEU:HD12	35:Z:534:PHE:CD2	2.16	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:32:LYS:HD2	5:5:45:MET:HE1	1.61	0.81
24:O:15:ARG:HD3	24:O:72:LYS:O	1.80	0.81
27:R:33:LEU:HD12	27:R:43:ARG:HG3	1.62	0.81
30:U:35:GLY:C	30:U:93:TYR:HB3	2.04	0.81
12:C:106:ILE:HD13	12:C:111:LEU:HB2	1.62	0.81
15:F:65:LYS:CD	15:F:222:PHE:CD2	2.63	0.81
22:M:289:LYS:HZ2	22:M:302:GLN:HE22	0.86	0.81
25:P:140:THR:HG21	25:P:163:LEU:CD2	2.10	0.81
26:Q:329:GLU:CD	26:Q:332:ARG:HH21	1.88	0.81
28:S:421:TYR:HD2	29:T:157:TYR:HB2	1.45	0.81
29:T:224:ARG:O	29:T:225:ASN:CG	2.24	0.81
30:U:283:ARG:NE	31:V:284:ALA:HA	1.96	0.81
3:3:26:GLY:HA3	3:3:174:TRP:CE2	2.16	0.81
5:5:6:PHE:CZ	5:5:13:ILE:HG13	2.16	0.81
8:8:320:LYS:NZ	17:H:164:SER:HB3	1.95	0.81
10:A:39:ASN:HD21	10:A:58:LYS:HD2	1.45	0.81
16:G:122:HIS:CD2	16:G:128:VAL:HG11	2.15	0.81
25:P:308:LEU:CD2	25:P:369:LEU:CD2	2.59	0.81
27:R:396:LYS:HG2	27:R:400:TYR:CE2	2.16	0.81
28:S:230:LYS:CE	28:S:256:LYS:HE3	2.11	0.81
30:U:92:TRP:CZ3	30:U:106:ILE:CG2	2.63	0.81
32:W:20:ASP:O	32:W:21:PHE:HB2	1.81	0.81
12:C:213:PHE:HD2	12:C:230:PHE:CD2	1.99	0.81
23:N:124:TYR:HB2	23:N:162:ARG:HG3	1.63	0.81
24:O:38:TRP:HE3	24:O:53:LYS:CD	1.91	0.81
30:U:109:LEU:HD11	32:W:58:ASN:O	1.81	0.81
35:Z:103:TYR:CD1	35:Z:116:ALA:CB	2.63	0.81
35:Z:147:GLU:HA	35:Z:210:TYR:CE1	2.16	0.81
2:2:8:PHE:CZ	2:2:11:GLY:CA	2.65	0.80
10:A:52:VAL:CG2	10:A:202:VAL:HG12	2.11	0.80
18:I:251:GLU:C	18:I:253:ILE:N	2.38	0.80
23:N:70:TYR:CE2	28:S:219:LYS:HE2	2.16	0.80
24:O:356:ARG:NH2	24:O:362:GLN:HG3	1.95	0.80
26:Q:24:GLU:OE2	26:Q:77:PHE:HE2	1.63	0.80
35:Z:193:PHE:CG	35:Z:196:SER:HB2	2.15	0.80
11:B:178:ARG:HH12	11:B:194:LEU:HB3	1.45	0.80
17:H:251:PRO:O	17:H:254:THR:CG2	2.29	0.80
20:K:392:LEU:HG	20:K:396:ARG:HH12	1.44	0.80
24:O:210:ARG:HH21	24:O:242:ILE:C	1.87	0.80
25:P:245:TYR:HE1	25:P:257:TRP:HZ2	1.29	0.80
26:Q:27:TYR:OH	26:Q:54:GLN:HG3	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U:223:HIS:CE1	30:U:224:THR:CB	2.64	0.80
35:Z:218:GLU:HB3	35:Z:248:TYR:OH	1.81	0.80
29:T:241:GLU:HA	29:T:246:GLU:CB	2.10	0.80
20:K:346:ARG:NE	20:K:372:ILE:HG21	1.97	0.80
24:O:119:SER:HB2	24:O:166:ARG:HD3	1.63	0.80
24:O:188:PHE:HZ	24:O:216:ASP:HB3	1.46	0.80
25:P:234:TYR:CD2	25:P:267:PHE:CZ	2.69	0.80
26:Q:202:ARG:NH2	26:Q:222:SER:CB	2.44	0.80
26:Q:243:PHE:CE1	26:Q:287:THR:HG22	2.15	0.80
30:U:19:LEU:HD12	30:U:127:GLN:OE1	1.82	0.80
24:O:80:LYS:CD	24:O:81:TYR:CE2	2.64	0.80
25:P:303:PHE:O	25:P:348:HIS:CD2	2.33	0.80
25:P:395:ARG:HE	26:Q:357:VAL:HA	1.45	0.80
30:U:92:TRP:HE3	30:U:110:PHE:CE2	1.99	0.80
3:3:42:LEU:HD22	3:3:78:PHE:HZ	1.46	0.80
16:G:166:LYS:NZ	16:G:206:ASN:OD1	2.14	0.80
17:H:172:MET:HE3	18:I:129:TYR:CG	2.16	0.80
21:L:370:LYS:CB	21:L:374:PHE:CZ	2.64	0.80
24:O:338:LYS:O	24:O:350:ILE:HG23	1.81	0.80
26:Q:151:TYR:CZ	26:Q:187:LYS:HG3	2.17	0.80
27:R:208:ASN:ND2	27:R:238:PHE:HB2	1.97	0.80
28:S:398:THR:N	28:S:447:GLU:OE1	2.13	0.80
9:9:15:LEU:HD11	9:9:29:LYS:CB	2.12	0.80
15:F:143:HIS:CE1	15:F:145:LEU:HB2	2.16	0.80
21:L:132:ARG:HH21	21:L:149:ASP:CG	1.90	0.80
24:O:103:LYS:O	24:O:129:ILE:HG13	1.81	0.80
29:T:190:ALA:CB	29:T:224:ARG:CZ	2.60	0.80
35:Z:438:LYS:O	35:Z:442:VAL:HG23	1.81	0.80
17:H:175:GLY:CA	17:H:183:ILE:HB	2.12	0.80
19:J:166:LEU:O	19:J:174:PHE:HE1	1.63	0.80
23:N:190:LEU:HD11	23:N:228:VAL:HG23	1.63	0.80
26:Q:249:LEU:O	26:Q:250:THR:CG2	2.29	0.80
33:X:75:TRP:HD1	33:X:87:PHE:CE1	1.85	0.80
8:8:116:ASN:CA	9:9:76:GLZ:O	2.26	0.80
19:J:124:LYS:HZ2	20:K:103:ILE:HG21	1.44	0.80
25:P:281:ILE:HG13	25:P:300:VAL:HG21	1.64	0.80
26:Q:90:LYS:HD3	26:Q:129:LYS:NZ	1.96	0.80
26:Q:272:LEU:HD23	26:Q:274:LEU:CD1	2.09	0.80
27:R:421:VAL:O	27:R:422:ARG:CB	2.30	0.80
27:R:422:ARG:HH22	28:S:301:PRO:CD	1.94	0.80
32:W:5:ALA:CA	32:W:103:ASN:HD22	1.94	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:80:SER:C	4:4:124:LYS:HZ3	1.90	0.80
10:A:174:LYS:CD	10:A:214:LEU:HG	2.12	0.80
16:G:223:THR:HG23	16:G:228:LYS:HD2	1.63	0.80
18:I:339:ILE:HG21	18:I:347:LYS:CE	2.11	0.80
18:I:361:ILE:CG2	18:I:392:ILE:HG21	2.11	0.80
24:O:196:LEU:HB2	24:O:213:LEU:HD21	1.64	0.80
30:U:100:ARG:O	30:U:152:LYS:HD3	1.81	0.80
32:W:1:MET:N	32:W:44:ASN:HD21	1.80	0.80
35:Z:805:LEU:HD22	35:Z:893:PHE:CE1	2.17	0.80
1:1:19:ARG:NH1	1:1:29:ARG:CA	2.45	0.79
10:A:174:LYS:HD2	10:A:214:LEU:HG	1.62	0.79
10:A:195:ASN:O	10:A:196:GLU:CG	2.30	0.79
17:H:318:ARG:NH1	17:H:364:ALA:CB	2.45	0.79
23:N:320:SER:CB	23:N:686:ILE:HG22	2.11	0.79
24:O:344:VAL:HG21	25:P:361:THR:HG22	1.62	0.79
35:Z:401:VAL:HG22	35:Z:426:TYR:HH	1.47	0.79
1:1:176:VAL:CG1	1:1:183:VAL:HG13	2.10	0.79
11:B:32:VAL:HG11	11:B:48:GLU:HB2	1.62	0.79
20:K:184:ILE:HD12	20:K:222:LEU:HD13	1.64	0.79
23:N:33:ASP:HA	23:N:71:ASN:ND2	1.96	0.79
24:O:79:VAL:HB	24:O:121:ASP:O	1.82	0.79
26:Q:46:VAL:O	26:Q:47:ASP:OD1	2.00	0.79
3:3:61:LYS:NZ	3:3:85:SER:HB3	1.97	0.79
16:G:140:VAL:HB	16:G:220:LEU:HD11	1.64	0.79
17:H:271:PHE:CE1	17:H:273:ARG:HB2	2.17	0.79
23:N:24:ALA:O	23:N:28:ILE:CG1	2.27	0.79
23:N:326:SER:N	31:V:182:LYS:HG3	1.97	0.79
35:Z:147:GLU:HA	35:Z:210:TYR:OH	1.82	0.79
17:H:334:LEU:HD23	22:M:282:GLU:HG2	1.65	0.79
18:I:75:PHE:HD2	18:I:76:VAL:CG2	1.94	0.79
22:M:379:LEU:HD22	22:M:415:PHE:HD1	1.47	0.79
23:N:596:LEU:CD1	23:N:717:LEU:HD22	2.12	0.79
24:O:280:LEU:HA	24:O:283:HIS:HB3	1.62	0.79
25:P:234:TYR:CA	25:P:267:PHE:CE2	2.65	0.79
15:F:145:LEU:HD11	15:F:153:VAL:CG1	2.12	0.79
15:F:198:SER:HA	15:F:206:LEU:HD11	1.64	0.79
24:O:344:VAL:HB	25:P:361:THR:HG23	1.63	0.79
26:Q:59:LEU:HD13	26:Q:103:LYS:HD2	1.62	0.79
29:T:226:TRP:CD1	29:T:241:GLU:OE1	2.36	0.79
35:Z:147:GLU:CA	35:Z:210:TYR:OH	2.31	0.79
1:1:190:PRO:HA	1:1:193:TYR:HE1	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:-4:ILE:HG13	7:7:-3:VAL:HG23	1.63	0.79
7:7:145:PRO:HA	7:7:148:ARG:HE	1.48	0.79
23:N:25:LEU:HD13	23:N:57:ASP:HB2	1.60	0.79
23:N:112:GLU:O	23:N:116:GLN:HG2	1.83	0.79
25:P:308:LEU:HD23	25:P:369:LEU:CA	2.12	0.79
30:U:127:GLN:OE1	31:V:208:LYS:HB3	1.83	0.79
1:1:122:LEU:HD21	7:7:28:PHE:CD1	2.17	0.79
8:8:116:ASN:HB3	9:9:76:GLZ:HA1	1.64	0.79
23:N:19:SER:HB3	29:T:35:ILE:HG23	1.63	0.79
24:O:387:ARG:NH2	29:T:258:ASN:HB3	1.97	0.79
27:R:31:PHE:HZ	27:R:182:ASN:HD22	1.29	0.79
27:R:320:LYS:CD	27:R:324:ARG:HD2	2.13	0.79
29:T:62:LEU:HD12	29:T:88:TYR:HE2	1.46	0.79
1:1:45:ARG:NH2	1:1:53:GLN:CA	2.45	0.79
17:H:105:ILE:HG21	17:H:145:TYR:O	1.82	0.79
21:L:173:PHE:CZ	21:L:177:GLU:HB3	2.17	0.79
23:N:302:PHE:HA	23:N:871:MET:HE1	1.63	0.79
24:O:377:VAL:HG13	30:U:193:GLN:NE2	1.96	0.79
28:S:188:TYR:CZ	28:S:210:LEU:HD22	2.18	0.79
32:W:25:ARG:CD	32:W:144:PHE:CE2	2.64	0.79
19:J:169:LYS:NZ	19:J:206:THR:HA	1.97	0.79
19:J:208:CYS:SG	19:J:242:PRO:HB2	2.22	0.79
24:O:277:ILE:HG22	24:O:278:PRO:CD	2.13	0.79
25:P:302:LEU:CB	25:P:310:ARG:HE	1.86	0.79
26:Q:297:ASP:HB3	26:Q:321:TYR:OH	1.83	0.79
29:T:62:LEU:CD1	29:T:88:TYR:HE2	1.95	0.79
33:X:85:ARG:HH21	33:X:115:SER:CA	1.96	0.79
7:7:93:TYR:HD1	7:7:96:ARG:HE	1.30	0.79
12:C:149:TYR:CZ	13:D:59:ILE:HB	2.18	0.79
18:I:244:PHE:CE1	18:I:246:ARG:CZ	2.65	0.79
21:L:132:ARG:NH2	21:L:156:MET:CG	2.46	0.79
22:M:361:LEU:HD13	22:M:376:TRP:HE3	1.45	0.79
24:O:340:SER:HB3	25:P:358:SER:HB2	1.63	0.79
10:A:19:PHE:CE1	11:B:128:ARG:NH1	2.51	0.78
20:K:168:ASP:N	21:L:315:PHE:CE1	2.52	0.78
24:O:28:GLN:O	24:O:31:LYS:HB3	1.83	0.78
26:Q:7:LYS:CG	26:Q:30:LEU:HD13	2.12	0.78
27:R:130:GLN:O	27:R:134:TRP:CD1	2.36	0.78
27:R:183:ASP:CG	27:R:185:LEU:H	1.91	0.78
30:U:283:ARG:NH1	31:V:283:THR:C	2.41	0.78
31:V:112:PRO:HB2	31:V:114:PHE:CE1	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:Z:64:TYR:OH	35:Z:115:LEU:HB2	1.82	0.78
1:1:80:SER:HB2	16:G:103:LYS:HG3	1.64	0.78
17:H:431:ILE:CG2	18:I:196:GLU:OE2	2.31	0.78
24:O:373:TRP:CZ3	30:U:233:PHE:CG	2.70	0.78
30:U:32:ARG:NH2	30:U:56:PHE:HZ	1.79	0.78
35:Z:218:GLU:HG2	35:Z:219:ASP:N	1.98	0.78
4:4:69:ARG:HG3	13:D:90:ARG:NH1	1.99	0.78
17:H:249:TYR:CZ	17:H:376:GLU:HA	2.18	0.78
20:K:123:LEU:HD12	20:K:126:LEU:CD1	2.13	0.78
22:M:75:LEU:HG	22:M:77:TYR:HD1	1.39	0.78
31:V:57:PHE:CB	31:V:63:VAL:HA	2.13	0.78
31:V:117:TRP:HZ2	31:V:196:TYR:CA	1.94	0.78
35:Z:318:LYS:HE2	35:Z:496:ALA:C	2.07	0.78
20:K:200:GLN:C	27:R:204:TRP:CZ2	2.57	0.78
23:N:421:ASP:CA	23:N:424:LYS:NZ	2.28	0.78
35:Z:321:PHE:CD2	35:Z:351:PRO:HD3	2.17	0.78
17:H:431:ILE:HG21	18:I:196:GLU:OE2	1.84	0.78
19:J:169:LYS:CE	19:J:206:THR:HA	2.14	0.78
19:J:169:LYS:HE2	19:J:206:THR:HA	1.65	0.78
19:J:219:VAL:HG21	20:K:284:ALA:HA	1.51	0.78
23:N:508:THR:HG21	23:N:513:ILE:CG2	2.12	0.78
28:S:421:TYR:CZ	29:T:158:GLN:HB2	2.19	0.78
29:T:82:PHE:HA	29:T:109:TYR:OH	1.83	0.78
30:U:66:TRP:CZ2	30:U:109:LEU:HD12	2.18	0.78
7:7:8:TYR:CZ	7:7:11:GLY:CA	2.67	0.78
12:C:180:TYR:CE2	12:C:182:ASP:HA	2.18	0.78
14:E:201:LEU:HB3	14:E:243:LEU:HD22	1.66	0.78
17:H:340:LEU:HD11	17:H:370:ARG:HH11	1.47	0.78
22:M:77:TYR:HE2	22:M:159:LEU:HD11	1.40	0.78
24:O:4:ASN:HB2	24:O:39:PHE:CD1	2.18	0.78
24:O:233:LEU:HD23	24:O:236:HIS:CG	2.18	0.78
29:T:70:ILE:HG21	29:T:173:GLU:HB3	1.66	0.78
29:T:190:ALA:HB2	29:T:224:ARG:NE	1.97	0.78
35:Z:471:LEU:CB	35:Z:497:PHE:CZ	2.67	0.78
35:Z:610:GLY:O	35:Z:748:LEU:CD2	2.32	0.78
19:J:375:ILE:HD12	27:R:204:TRP:HE3	1.45	0.78
24:O:277:ILE:HG23	24:O:279:ILE:HG12	1.65	0.78
26:Q:265:MET:HE3	26:Q:281:ILE:CD1	2.13	0.78
7:7:121:TYR:CE2	7:7:136:THR:HG22	2.18	0.78
10:A:104:PHE:HE2	10:A:111:ASP:O	1.65	0.78
17:H:312:ASP:HA	17:H:360:THR:HG21	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O:306:ARG:CD	24:O:352:TRP:N	2.47	0.78
29:T:193:THR:HG22	29:T:226:TRP:CZ2	2.18	0.78
31:V:117:TRP:CZ2	31:V:196:TYR:CB	2.66	0.78
31:V:231:GLU:O	31:V:235:GLU:CB	2.32	0.78
33:X:46:TRP:CZ2	33:X:132:SER:CA	2.65	0.78
35:Z:985:LYS:HB2	35:Z:991:GLU:OE2	1.83	0.78
1:1:-6:GLY:HA2	2:2:116:HIS:CD2	2.19	0.78
3:3:-2:ASN:C	3:3:19:ARG:HH11	1.89	0.78
15:F:78:ALA:N	22:M:433:TYR:HH	1.79	0.78
17:H:249:TYR:OH	17:H:376:GLU:HB3	1.84	0.78
17:H:340:LEU:CD1	17:H:370:ARG:NH1	2.47	0.78
31:V:118:LEU:HD11	31:V:140:VAL:HB	1.59	0.78
35:Z:786:SER:O	35:Z:787:ASP:OD2	2.00	0.78
3:3:12:VAL:HG22	3:3:103:ILE:CD1	2.10	0.78
13:D:159:TRP:CE3	14:E:59:LEU:HD13	2.19	0.78
20:K:254:VAL:HG11	20:K:299:LEU:CD2	2.12	0.78
26:Q:405:GLN:O	27:R:396:LYS:HD3	1.84	0.78
29:T:193:THR:HB	29:T:226:TRP:CH2	2.19	0.78
30:U:92:TRP:CE3	30:U:110:PHE:CD2	2.72	0.78
1:1:75:THR:HB	1:1:111:TYR:CE1	2.19	0.77
1:1:122:LEU:CD1	7:7:28:PHE:HE1	1.97	0.77
10:A:220:LYS:CD	10:A:238:ALA:O	2.32	0.77
17:H:198:MET:HE2	17:H:272:ILE:CG2	2.14	0.77
22:M:252:VAL:HG21	22:M:285:ALA:HB1	1.67	0.77
27:R:94:PHE:CE2	27:R:95:ASP:O	2.38	0.77
32:W:21:PHE:CB	32:W:25:ARG:HA	2.14	0.77
33:X:95:GLU:HB3	33:X:97:TYR:CE1	2.19	0.77
35:Z:124:MET:HE1	35:Z:153:TYR:HA	1.66	0.77
35:Z:218:GLU:HG2	35:Z:219:ASP:H	1.46	0.77
2:2:87:LEU:CD2	2:2:94:ILE:HD11	2.15	0.77
4:4:26:VAL:CG1	4:4:29:ASP:HB3	2.14	0.77
4:4:43:MET:HG3	4:4:45:PHE:CE2	2.18	0.77
16:G:182:HIS:CD2	16:G:186:LEU:HD11	2.19	0.77
17:H:183:ILE:HG22	17:H:183:ILE:O	1.83	0.77
19:J:167:PRO:HA	19:J:174:PHE:CD1	2.18	0.77
20:K:346:ARG:NH2	20:K:372:ILE:HD13	1.99	0.77
20:K:393:ARG:NH2	20:K:414:GLN:OE1	2.17	0.77
20:K:423:LYS:HG2	20:K:424:PHE:CD2	2.18	0.77
23:N:406:TYR:CD1	23:N:448:LEU:CD1	2.66	0.77
24:O:277:ILE:HG21	24:O:279:ILE:CA	2.13	0.77
26:Q:272:LEU:CD2	26:Q:274:LEU:HD12	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:S:181:ALA:O	28:S:236:LEU:HD21	1.85	0.77
30:U:223:HIS:CG	30:U:224:THR:H	2.02	0.77
35:Z:758:LEU:CD2	35:Z:791:LYS:HD3	2.14	0.77
8:8:329:ILE:HG12	17:H:163:VAL:HG21	1.66	0.77
16:G:73:ILE:CG1	16:G:108:ILE:CD1	2.61	0.77
27:R:208:ASN:HD21	27:R:238:PHE:CB	1.96	0.77
30:U:107:ASN:ND2	30:U:111:LYS:HE3	1.99	0.77
30:U:223:HIS:CE1	30:U:224:THR:HG1	1.85	0.77
35:Z:570:LEU:HD12	35:Z:599:ILE:HG21	1.66	0.77
17:H:420:ARG:HD2	18:I:343:ARG:HH12	1.49	0.77
23:N:479:GLU:CB	23:N:512:ASN:ND2	2.42	0.77
24:O:210:ARG:CZ	24:O:242:ILE:HA	2.02	0.77
24:O:306:ARG:CB	24:O:350:ILE:O	2.33	0.77
29:T:155:GLY:O	29:T:156:SER:HB2	1.84	0.77
31:V:57:PHE:HB3	31:V:63:VAL:HA	1.66	0.77
16:G:73:ILE:CD1	16:G:108:ILE:HD13	2.14	0.77
21:L:236:ALA:HB2	21:L:277:ILE:HD12	1.64	0.77
22:M:221:TYR:HE1	22:M:346:LYS:CG	1.97	0.77
27:R:191:LEU:HB2	27:R:213:TYR:CE2	2.18	0.77
29:T:112:ASN:HA	29:T:177:PHE:HE2	1.50	0.77
30:U:92:TRP:CZ2	30:U:120:LEU:HD13	2.20	0.77
32:W:180:LEU:HD23	32:W:183:GLU:OE1	1.83	0.77
35:Z:518:LEU:HD22	35:Z:562:TRP:HB2	1.64	0.77
16:G:42:ASN:HD21	16:G:183:PRO:HG2	1.49	0.77
22:M:361:LEU:HB3	22:M:376:TRP:CE3	2.19	0.77
24:O:250:TRP:CD1	24:O:270:ILE:HA	2.18	0.77
1:1:-8:LYS:HE2	2:2:88:PHE:CE1	2.19	0.77
15:F:76:GLY:O	22:M:433:TYR:CE2	2.36	0.77
18:I:250:SER:O	18:I:253:ILE:CB	2.30	0.77
20:K:90:GLN:HE22	20:K:143:SER:CB	1.97	0.77
20:K:236:ARG:NH2	21:L:310:THR:HG23	1.97	0.77
29:T:240:LYS:HA	29:T:245:TYR:HB3	1.66	0.77
32:W:182:TYR:O	32:W:183:GLU:CB	2.32	0.77
33:X:35:ILE:HG13	33:X:124:LYS:HE2	1.66	0.77
10:A:46:ARG:HE	10:A:152:PRO:HB2	1.50	0.77
14:E:109:VAL:HB	14:E:156:PHE:CE1	2.19	0.77
16:G:196:ALA:O	16:G:200:TYR:CD2	2.38	0.77
17:H:253:GLY:CA	18:I:314:ASP:OD1	2.33	0.77
25:P:245:TYR:CE1	25:P:257:TRP:HZ2	2.03	0.77
35:Z:361:HIS:NE2	35:Z:861:THR:HB	1.99	0.77
35:Z:429:ASN:O	35:Z:430:LEU:CG	2.31	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:13:ILE:HG21	7:7:169:ILE:HG13	1.66	0.77
14:E:165:TYR:CB	14:E:167:TYR:CZ	2.67	0.77
24:O:66:VAL:CG1	24:O:106:PHE:HE1	1.91	0.77
32:W:168:THR:HG22	32:W:169:SER:CB	2.15	0.77
4:4:149:PRO:O	4:4:150:ASP:HB2	1.85	0.77
5:5:6:PHE:CZ	5:5:13:ILE:CG1	2.68	0.77
8:8:330:LEU:HD12	17:H:166:THR:CB	2.14	0.77
17:H:172:MET:HE1	18:I:129:TYR:CD2	1.96	0.77
20:K:155:ASP:O	21:L:126:ARG:NH2	2.18	0.77
22:M:385:GLU:HB3	22:M:426:LYS:HZ3	1.37	0.77
25:P:135:GLU:CG	25:P:138:ARG:NH2	2.47	0.77
29:T:93:ASN:ND2	29:T:94:HIS:HD2	1.81	0.77
7:7:85:PHE:CE2	7:7:120:ARG:HD3	2.20	0.76
18:I:175:LYS:O	19:J:282:PHE:CE2	2.37	0.76
20:K:168:ASP:HB2	21:L:315:PHE:CD1	2.18	0.76
24:O:342:ASP:OD1	25:P:358:SER:HB3	1.84	0.76
26:Q:99:THR:CG2	26:Q:103:LYS:HE2	2.14	0.76
26:Q:331:THR:HG22	26:Q:335:PHE:HE2	1.45	0.76
27:R:214:TYR:CE2	27:R:230:LEU:HD12	2.20	0.76
28:S:230:LYS:NZ	28:S:256:LYS:CE	2.47	0.76
28:S:471:LEU:HB3	30:U:288:PHE:CE1	2.20	0.76
33:X:66:LEU:CD1	33:X:97:TYR:HB2	2.14	0.76
35:Z:60:ASP:OD1	35:Z:63:LEU:HD12	1.85	0.76
10:A:220:LYS:HD2	10:A:238:ALA:C	2.10	0.76
17:H:172:MET:CE	18:I:129:TYR:CG	2.68	0.76
18:I:281:ILE:HG22	18:I:284:ILE:HG13	1.67	0.76
26:Q:51:ARG:HH21	26:Q:92:LYS:HB3	1.50	0.76
27:R:354:ALA:HB2	27:R:364:LEU:HD23	1.68	0.76
35:Z:103:TYR:HA	35:Z:112:LYS:HG2	1.66	0.76
35:Z:452:LEU:HD11	35:Z:485:ILE:HG23	1.67	0.76
35:Z:857:LEU:HD23	35:Z:858:GLY:N	1.99	0.76
8:8:448:TYR:OH	9:9:73:LEU:O	2.01	0.76
11:B:224:TYR:OH	11:B:228:PRO:HA	1.84	0.76
21:L:259:SER:HB2	21:L:303:ARG:CZ	2.16	0.76
23:N:70:TYR:HE2	28:S:219:LYS:CE	1.98	0.76
26:Q:222:SER:O	26:Q:226:HIS:CD2	2.37	0.76
29:T:250:MET:O	29:T:251:HIS:CG	2.38	0.76
1:1:19:ARG:HH11	1:1:29:ARG:HA	1.47	0.76
14:E:98:THR:O	14:E:102:TYR:HD1	1.67	0.76
20:K:104:ASP:OD1	20:K:107:THR:HB	1.85	0.76
26:Q:47:ASP:HA	26:Q:50:ARG:HB3	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:T:229:VAL:CG2	29:T:234:TYR:HE1	1.96	0.76
30:U:11:ALA:HB3	30:U:14:VAL:HG23	1.68	0.76
1:1:137:TYR:CZ	1:1:157:HIS:CD2	2.74	0.76
6:6:94:PHE:CE1	7:7:99:MET:HE2	2.15	0.76
15:F:38:LEU:HG	15:F:189:LEU:HD11	1.66	0.76
20:K:281:ARG:NH1	20:K:287:GLY:CA	2.40	0.76
23:N:265:ALA:HB1	23:N:269:LEU:HD23	1.67	0.76
31:V:261:LEU:CG	31:V:283:THR:HG21	2.15	0.76
33:X:8:ILE:HG21	33:X:124:LYS:HD2	1.65	0.76
8:8:212:GLU:CD	9:9:72:ARG:CG	2.58	0.76
11:B:119:GLN:HG3	11:B:123:GLN:HE21	1.48	0.76
17:H:248:LEU:CD2	17:H:377:PHE:HE2	1.94	0.76
18:I:358:LYS:NZ	18:I:387:LEU:H	1.84	0.76
22:M:390:GLN:HE21	22:M:425:ARG:HB3	1.48	0.76
30:U:66:TRP:O	32:W:93:ILE:CD1	2.33	0.76
32:W:36:ILE:HD11	32:W:182:TYR:HB2	1.67	0.76
5:5:8:PHE:CZ	5:5:13:ILE:CD1	2.67	0.76
10:A:135:ARG:NE	16:G:124:LEU:HD23	2.01	0.76
10:A:191:ILE:HD12	10:A:193:HIS:O	1.86	0.76
11:B:32:VAL:CG1	11:B:48:GLU:HB2	2.15	0.76
13:D:37:LYS:HG2	13:D:38:GLY:O	1.85	0.76
23:N:21:LYS:HE3	23:N:55:PHE:CE2	2.19	0.76
23:N:325:PHE:HA	31:V:182:LYS:CG	2.15	0.76
23:N:452:LEU:HD21	23:N:748:PHE:HE1	1.49	0.76
24:O:233:LEU:CD2	24:O:236:HIS:CE1	2.68	0.76
24:O:306:ARG:CG	24:O:351:SER:C	2.59	0.76
25:P:131:PHE:CE1	25:P:166:GLU:HB3	2.21	0.76
25:P:311:TRP:HH2	25:P:338:TRP:NE1	1.83	0.76
28:S:211:ARG:HH21	28:S:240:ASP:CB	1.98	0.76
29:T:62:LEU:HD11	29:T:88:TYR:CE2	2.20	0.76
30:U:66:TRP:CH2	30:U:109:LEU:HD12	2.20	0.76
30:U:223:HIS:CG	30:U:224:THR:N	2.53	0.76
35:Z:190:THR:H	35:Z:193:PHE:HB3	1.49	0.76
35:Z:767:TYR:CE2	35:Z:772:ILE:CG1	2.68	0.76
12:C:13:PHE:CZ	13:D:127:ARG:NH1	2.54	0.76
19:J:375:ILE:O	27:R:204:TRP:NE1	2.19	0.76
24:O:103:LYS:HA	24:O:129:ILE:HD11	1.68	0.76
33:X:45:PHE:CZ	33:X:69:ILE:HG12	2.20	0.76
35:Z:551:LEU:HG	35:Z:593:HIS:CE1	2.21	0.76
1:1:66:TYR:CE2	1:1:73:PRO:CA	2.67	0.76
15:F:201:LEU:HD22	15:F:204:GLU:HB2	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:N:21:LYS:HE3	23:N:55:PHE:CE1	2.21	0.76
25:P:213:TYR:HE2	25:P:217:LYS:HE3	1.50	0.76
31:V:154:ASP:HB3	31:V:156:PHE:HE1	1.50	0.76
33:X:100:TRP:HZ2	33:X:110:PRO:HG3	1.51	0.76
18:I:243:THR:CG2	18:I:245:LEU:HD21	2.15	0.76
20:K:155:ASP:OD1	20:K:156:SER:N	2.16	0.76
21:L:253:ASP:CA	22:M:256:ILE:HG21	2.06	0.76
23:N:10:LEU:HD22	23:N:42:GLU:HG3	1.66	0.76
24:O:47:LYS:NZ	24:O:65:PHE:HE2	1.81	0.76
25:P:263:HIS:CE1	25:P:327:LEU:HB2	2.21	0.76
31:V:118:LEU:HD13	31:V:140:VAL:CG1	2.16	0.76
11:B:179:TRP:CD1	11:B:183:LEU:CD1	2.51	0.75
17:H:172:MET:HE2	18:I:129:TYR:CB	2.12	0.75
22:M:62:ILE:CG1	22:M:66:LYS:HE3	2.17	0.75
24:O:79:VAL:HB	24:O:121:ASP:C	2.11	0.75
26:Q:243:PHE:CE1	26:Q:287:THR:CB	2.69	0.75
29:T:32:ILE:O	29:T:35:ILE:CG2	2.22	0.75
18:I:281:ILE:HG22	18:I:284:ILE:CG1	2.15	0.75
23:N:14:ARG:NH2	23:N:42:GLU:CD	2.35	0.75
25:P:101:MET:SD	25:P:139:VAL:HG13	2.26	0.75
28:S:163:VAL:HG21	28:S:184:TRP:HZ3	1.50	0.75
35:Z:321:PHE:CZ	35:Z:351:PRO:CD	2.69	0.75
17:H:410:LEU:HD11	17:H:444:LEU:HD22	1.68	0.75
23:N:555:ILE:HG23	23:N:559:TYR:CD2	2.20	0.75
23:N:666:GLN:HG3	23:N:873:ARG:NH2	2.02	0.75
26:Q:146:TYR:CE1	26:Q:151:TYR:CE1	2.73	0.75
2:2:8:PHE:HE1	2:2:12:VAL:C	1.95	0.75
20:K:49:PHE:CD1	23:N:192:LEU:HD11	2.22	0.75
26:Q:99:THR:HG23	26:Q:103:LYS:HE2	1.68	0.75
26:Q:146:TYR:CE1	26:Q:151:TYR:HE1	2.03	0.75
27:R:411:LEU:HD13	30:U:285:ILE:HG12	1.67	0.75
31:V:261:LEU:HD22	31:V:283:THR:HG21	1.67	0.75
1:1:75:THR:HG21	1:1:111:TYR:CD1	2.03	0.75
8:8:209:ASP:OD2	9:9:72:ARG:HA	1.86	0.75
11:B:4:ARG:NH1	13:D:3:GLY:HA3	2.00	0.75
12:C:193:ALA:O	12:C:197:LEU:HG	1.86	0.75
21:L:192:GLU:OE1	21:L:347:VAL:HG13	1.86	0.75
23:N:75:TYR:O	23:N:79:VAL:HG23	1.87	0.75
23:N:214:LEU:HA	23:N:217:MET:HE2	1.69	0.75
24:O:277:ILE:CG2	24:O:279:ILE:CB	2.60	0.75
27:R:36:SER:O	27:R:43:ARG:NH2	2.18	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:R:422:ARG:HH11	28:S:301:PRO:HB3	1.49	0.75
32:W:44:ASN:HB2	32:W:47:ASN:ND2	2.02	0.75
3:3:44:ILE:HG12	3:3:98:PRO:HB3	1.67	0.75
7:7:190:ALA:HB2	7:7:200:PHE:CD2	2.22	0.75
8:8:283:LYS:H	9:9:12:THR:HB	1.46	0.75
17:H:261:ARG:NH2	17:H:273:ARG:HH22	1.83	0.75
21:L:325:MET:SD	21:L:343:LEU:HD11	2.27	0.75
22:M:307:GLU:HG3	22:M:311:GLN:HE21	1.49	0.75
24:O:166:ARG:HH21	24:O:169:ASN:HB3	1.52	0.75
7:7:7:LYS:HE3	7:7:119:LEU:HB3	1.68	0.75
8:8:116:ASN:O	9:9:76:GLZ:HA1	1.87	0.75
8:8:283:LYS:H	9:9:12:THR:CA	2.00	0.75
12:C:213:PHE:CD2	12:C:230:PHE:CD2	2.74	0.75
17:H:168:ILE:HG12	17:H:186:PRO:HB2	1.68	0.75
20:K:49:PHE:HD1	23:N:192:LEU:HD11	1.50	0.75
20:K:311:ASN:OD1	20:K:312:VAL:HG23	1.85	0.75
24:O:344:VAL:O	24:O:345:ASN:CB	2.34	0.75
26:Q:90:LYS:HD3	26:Q:129:LYS:HE2	1.69	0.75
27:R:94:PHE:HZ	27:R:99:TYR:CZ	2.03	0.75
28:S:435:LYS:NZ	29:T:238:GLN:OE1	2.14	0.75
30:U:40:ASP:CB	30:U:47:ARG:HH21	1.98	0.75
31:V:257:GLU:O	31:V:261:LEU:HG	1.86	0.75
8:8:283:LYS:C	9:9:12:THR:C	2.54	0.75
13:D:11:PHE:CE2	14:E:137:PRO:HD2	2.21	0.75
14:E:114:GLN:HE21	15:F:82:ARG:HD2	1.50	0.75
17:H:405:GLU:O	17:H:409:ARG:HG2	1.87	0.75
29:T:225:ASN:HB3	29:T:241:GLU:HG2	1.68	0.75
35:Z:56:LEU:HD22	35:Z:115:LEU:CD1	2.15	0.75
7:7:8:TYR:HE2	7:7:10:ASN:OD1	1.64	0.75
10:A:126:GLN:HE22	10:A:130:GLN:NE2	1.85	0.75
19:J:272:MET:HE3	19:J:290:ILE:CD1	2.14	0.75
20:K:158:ILE:HG23	21:L:256:ILE:CG2	2.17	0.75
20:K:210:LEU:CD1	20:K:212:TYR:CZ	2.69	0.75
27:R:259:PHE:CD2	27:R:329:PHE:HE1	2.01	0.75
35:Z:888:LEU:HG	35:Z:901:PHE:CE1	2.21	0.75
12:C:147:GLN:HB3	12:C:149:TYR:CE1	2.15	0.74
16:G:203:HIS:CE1	16:G:211:PHE:HD1	2.05	0.74
17:H:217:GLN:HG3	17:H:376:GLU:CD	2.12	0.74
22:M:361:LEU:CB	22:M:376:TRP:CD2	2.67	0.74
27:R:304:TYR:CE1	27:R:308:LEU:CD1	2.64	0.74
30:U:94:HIS:CE1	30:U:96:GLY:N	2.54	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:X:46:TRP:HZ2	33:X:132:SER:N	1.86	0.74
1:1:59:VAL:HG11	1:1:82:PHE:CZ	2.22	0.74
1:1:118:SER:OG	7:7:53:GLN:HG3	1.88	0.74
4:4:81:SER:N	4:4:124:LYS:HZ3	1.84	0.74
17:H:271:PHE:CZ	17:H:307:PHE:CD2	2.69	0.74
21:L:223:PRO:HB2	21:L:226:THR:HG23	1.69	0.74
21:L:309:LEU:CD2	21:L:342:ARG:NE	2.39	0.74
24:O:271:LYS:HD3	24:O:274:ILE:HD12	1.68	0.74
26:Q:90:LYS:HD3	26:Q:129:LYS:CE	2.17	0.74
28:S:163:VAL:HG22	28:S:184:TRP:CH2	2.22	0.74
30:U:112:LYS:HZ3	32:W:60:ARG:NH2	1.85	0.74
31:V:118:LEU:HD12	31:V:140:VAL:CB	2.06	0.74
31:V:126:GLN:O	31:V:130:GLU:HG2	1.86	0.74
35:Z:53:VAL:HG12	35:Z:92:LEU:HD23	1.69	0.74
35:Z:87:LYS:CE	35:Z:90:LYS:HB2	2.15	0.74
19:J:27:ILE:CB	20:K:51:LEU:HD21	2.18	0.74
20:K:68:ILE:HD11	23:N:608:LEU:HD21	1.65	0.74
24:O:79:VAL:HG21	24:O:122:HIS:C	2.11	0.74
24:O:277:ILE:CG2	24:O:279:ILE:CG1	2.31	0.74
27:R:94:PHE:CZ	27:R:95:ASP:O	2.40	0.74
27:R:137:LEU:CG	27:R:141:TYR:CE2	2.69	0.74
33:X:85:ARG:NH2	33:X:115:SER:HB2	2.01	0.74
35:Z:558:LEU:HG	35:Z:558:LEU:O	1.85	0.74
8:8:208:GLN:N	9:9:75:GLY:H	1.85	0.74
17:H:389:PHE:O	17:H:404:TRP:CH2	2.39	0.74
19:J:219:VAL:CG1	20:K:284:ALA:CB	2.66	0.74
23:N:322:ASP:HB2	23:N:689:LYS:NZ	2.01	0.74
23:N:666:GLN:HG3	23:N:873:ARG:HE	1.52	0.74
24:O:106:PHE:O	24:O:107:GLN:HB2	1.87	0.74
26:Q:253:ASN:HD22	26:Q:258:ALA:HB2	1.52	0.74
35:Z:510:LEU:HD13	35:Z:542:ILE:CG1	2.16	0.74
2:2:187:LEU:HD13	2:2:190:TYR:CD1	2.23	0.74
2:2:196:ARG:HE	2:2:199:LYS:HE3	1.53	0.74
3:3:75:PRO:HB2	3:3:111:PHE:CD2	2.23	0.74
4:4:81:SER:N	4:4:124:LYS:NZ	2.36	0.74
11:B:38:LYS:O	11:B:179:TRP:CH2	2.39	0.74
15:F:123:TYR:CD1	15:F:124:GLY:N	2.54	0.74
17:H:154:LYS:NZ	22:M:164:ASP:O	2.20	0.74
19:J:69:GLY:H	20:K:144:ASN:HD22	1.28	0.74
21:L:279:PHE:HE2	21:L:281:ASP:OD1	1.69	0.74
27:R:137:LEU:O	27:R:141:TYR:HD2	1.71	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:61:LYS:HD3	3:3:81:LEU:HD11	1.70	0.74
12:C:160:TRP:CH2	12:C:163:ILE:CD1	2.70	0.74
20:K:248:GLY:CA	20:K:251:PRO:HG2	2.17	0.74
10:A:103:GLU:OE2	10:A:107:LYS:NZ	2.20	0.74
11:B:119:GLN:HE21	11:B:123:GLN:HG3	1.52	0.74
17:H:175:GLY:O	17:H:183:ILE:HB	1.88	0.74
20:K:353:PHE:CE1	20:K:387:MET:SD	2.80	0.74
21:L:259:SER:CB	21:L:303:ARG:NH1	2.48	0.74
24:O:373:TRP:CD1	30:U:200:LEU:CD1	2.70	0.74
27:R:353:MET:HE2	27:R:364:LEU:HD21	1.67	0.74
28:S:160:ARG:O	28:S:164:ILE:HG12	1.87	0.74
8:8:116:ASN:O	9:9:76:GLZ:CA	2.35	0.74
8:8:330:LEU:HD11	17:H:166:THR:OG1	1.87	0.74
11:B:183:LEU:HD23	11:B:184:GLU:O	1.88	0.74
17:H:284:VAL:HG13	22:M:252:VAL:HG12	1.69	0.74
17:H:430:ALA:HA	17:H:435:ARG:HH21	1.52	0.74
24:O:5:HIS:CE1	24:O:27:GLU:HB3	2.22	0.74
26:Q:267:LEU:HD22	26:Q:331:THR:HG23	1.69	0.74
31:V:57:PHE:CD1	31:V:63:VAL:HG13	2.23	0.74
32:W:186:ALA:HA	32:W:192:LEU:CD1	2.16	0.74
4:4:11:SER:HB2	4:4:182:ILE:CG2	2.18	0.74
15:F:215:ILE:HG13	15:F:220:THR:HG21	1.69	0.74
21:L:123:SER:HA	22:M:125:GLN:HG2	1.70	0.74
26:Q:146:TYR:CD1	26:Q:151:TYR:CE1	2.75	0.74
27:R:34:THR:HA	27:R:70:TYR:CD1	2.23	0.74
30:U:112:LYS:HZ3	32:W:60:ARG:HH21	1.33	0.74
35:Z:446:GLU:HG3	35:Z:484:LYS:NZ	2.02	0.74
35:Z:530:LEU:HD12	35:Z:534:PHE:HD2	1.53	0.74
8:8:484:GLY:HA3	17:H:187:LEU:HD23	1.68	0.74
15:F:105:VAL:CG1	15:F:143:HIS:ND1	2.45	0.74
15:F:179:PHE:CE1	15:F:188:GLU:OE2	2.40	0.74
24:O:276:LYS:O	24:O:277:ILE:HB	1.87	0.74
26:Q:174:LEU:HG	26:Q:178:HIS:CE1	2.23	0.74
26:Q:396:TRP:HB2	26:Q:398:TYR:CE2	2.23	0.74
26:Q:429:LYS:HE3	31:V:269:ARG:HH22	1.53	0.74
29:T:32:ILE:C	29:T:35:ILE:HG22	2.12	0.74
29:T:211:PHE:HD2	29:T:217:THR:HG1	1.36	0.74
35:Z:299:ASP:OD1	35:Z:334:LYS:HE2	1.87	0.74
35:Z:422:ILE:O	35:Z:426:TYR:CD2	2.41	0.74
11:B:174:PHE:CZ	11:B:198:GLU:OE1	2.41	0.73
18:I:243:THR:HG22	18:I:245:LEU:CD2	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J:142:VAL:CG1	19:J:204:HIS:HE1	2.01	0.73
20:K:156:SER:HB2	20:K:253:MET:HE2	1.67	0.73
24:O:303:LYS:O	24:O:304:ASN:HB2	1.87	0.73
25:P:140:THR:CG2	25:P:163:LEU:HD22	2.18	0.73
27:R:208:ASN:ND2	27:R:238:PHE:CG	2.56	0.73
28:S:471:LEU:CB	30:U:288:PHE:CE1	2.71	0.73
35:Z:392:LEU:HG	35:Z:428:TRP:HZ3	1.53	0.73
15:F:105:VAL:HG12	15:F:143:HIS:CE1	2.23	0.73
15:F:155:GLU:OE1	16:G:62:LYS:CB	2.35	0.73
17:H:155:PHE:CE1	22:M:76:PRO:HA	2.21	0.73
20:K:67:TYR:HE2	23:N:572:LEU:O	1.71	0.73
21:L:84:LEU:HD22	21:L:88:TYR:OH	1.89	0.73
22:M:166:ARG:O	22:M:167:VAL:HG22	1.88	0.73
22:M:351:LEU:HD22	22:M:387:ASN:OD1	1.87	0.73
23:N:84:ALA:O	23:N:86:LYS:HG3	1.88	0.73
26:Q:272:LEU:CD2	26:Q:274:LEU:CD1	2.66	0.73
27:R:137:LEU:HG	27:R:141:TYR:CE2	2.23	0.73
30:U:52:PHE:CE1	30:U:80:CYS:SG	2.81	0.73
30:U:92:TRP:CZ3	30:U:106:ILE:CB	2.61	0.73
33:X:35:ILE:HG12	33:X:124:LYS:HE2	1.68	0.73
5:5:68:LEU:HD13	14:E:70:ILE:O	1.88	0.73
8:8:485:GLU:H	17:H:187:LEU:CD2	2.00	0.73
10:A:218:PHE:HB2	10:A:223:LEU:HD21	1.69	0.73
20:K:140:HIS:HB3	20:K:143:SER:HB3	1.69	0.73
21:L:382:MET:HE1	21:L:416:MET:HA	1.70	0.73
22:M:385:GLU:HB2	22:M:426:LYS:NZ	2.03	0.73
25:P:286:ASN:O	25:P:293:LEU:HD21	1.87	0.73
26:Q:250:THR:HG23	26:Q:251:THR:H	1.51	0.73
29:T:112:ASN:HA	29:T:177:PHE:CE2	2.23	0.73
11:B:4:ARG:NH2	13:D:5:ASP:HB2	2.01	0.73
12:C:98:TYR:CE1	12:C:105:ASP:C	2.67	0.73
12:C:213:PHE:CE2	12:C:230:PHE:CE2	2.76	0.73
16:G:197:LYS:HD2	16:G:241:PHE:HE2	1.53	0.73
17:H:206:VAL:HG11	17:H:258:LEU:HD23	1.67	0.73
23:N:249:ASN:OD1	23:N:282:TYR:OH	2.04	0.73
23:N:329:HIS:HE1	23:N:355:TRP:CE3	2.02	0.73
24:O:337:LEU:O	24:O:338:LYS:HB3	1.87	0.73
27:R:130:GLN:O	27:R:134:TRP:HD1	1.70	0.73
2:2:142:TRP:HE1	2:2:145:ASP:HA	1.52	0.73
6:6:66:TYR:CE2	6:6:73:LYS:O	2.42	0.73
10:A:59:VAL:HG21	10:A:66:PRO:HB3	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:I:106:ILE:HD11	19:J:85:LEU:CD2	2.19	0.73
20:K:350:ARG:HH21	26:Q:215:VAL:HG11	1.53	0.73
32:W:40:LYS:CE	32:W:47:ASN:HB3	2.11	0.73
34:Y:88:ASN:O	34:Y:89:GLN:CB	2.32	0.73
35:Z:147:GLU:HA	35:Z:210:TYR:CZ	2.23	0.73
1:1:36:ARG:HB2	1:1:42:TRP:CZ3	2.23	0.73
4:4:66:TYR:CZ	4:4:74:LEU:HD21	2.21	0.73
8:8:282:GLU:OE2	9:9:66:THR:CG2	2.36	0.73
15:F:76:GLY:O	22:M:433:TYR:CZ	2.42	0.73
17:H:449:LYS:NZ	18:I:346:ARG:HH11	1.87	0.73
21:L:357:ARG:O	21:L:361:PHE:CD2	2.41	0.73
23:N:320:SER:HB2	23:N:686:ILE:HG22	1.69	0.73
23:N:399:PHE:HD1	23:N:441:VAL:CB	1.95	0.73
27:R:60:ALA:CB	27:R:102:LEU:HD22	2.19	0.73
33:X:45:PHE:CE1	33:X:69:ILE:HG12	2.24	0.73
35:Z:800:SER:OG	35:Z:815:MET:HE1	1.89	0.73
1:1:37:VAL:HB	1:1:63:LEU:HD12	1.70	0.73
1:1:83:LYS:CD	1:1:119:VAL:HG23	2.18	0.73
1:1:124:TYR:CD1	1:1:142:PHE:CZ	2.76	0.73
4:4:72:TYR:OH	4:4:109:LYS:HE3	1.88	0.73
14:E:157:HIS:CG	14:E:170:LYS:HZ3	2.06	0.73
19:J:27:ILE:CG1	20:K:51:LEU:HD21	2.19	0.73
19:J:324:ARG:NH2	19:J:352:GLY:H	1.87	0.73
19:J:336:ASN:HD22	27:R:204:TRP:HE1	0.74	0.73
22:M:289:LYS:HZ1	22:M:334:ASP:HB2	1.53	0.73
35:Z:321:PHE:CE1	35:Z:350:GLY:HA3	2.20	0.73
17:H:72:SER:HB3	18:I:153:THR:HG21	1.70	0.73
19:J:167:PRO:HD3	19:J:174:PHE:HZ	1.52	0.73
20:K:392:LEU:HD13	21:L:213:LYS:O	1.88	0.73
24:O:210:ARG:NH2	24:O:242:ILE:CB	2.51	0.73
25:P:112:LEU:HD11	25:P:146:ILE:HG21	1.69	0.73
27:R:101:GLU:CG	27:R:105:LYS:HE3	2.18	0.73
29:T:197:TYR:CD2	29:T:200:LEU:HG	2.24	0.73
30:U:35:GLY:H	30:U:93:TYR:HB3	1.53	0.73
31:V:231:GLU:O	31:V:235:GLU:HB2	1.89	0.73
35:Z:133:ASP:HB3	35:Z:137:TYR:CZ	2.24	0.73
35:Z:491:LEU:HD21	35:Z:900:LEU:HD11	1.70	0.73
35:Z:811:SER:O	35:Z:815:MET:HG3	1.89	0.73
1:1:19:ARG:HH21	1:1:26:ILE:HD13	1.53	0.73
16:G:182:HIS:CE1	16:G:186:LEU:CD1	2.71	0.73
17:H:174:VAL:CG1	17:H:183:ILE:HG13	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:N:14:ARG:HB2	29:T:80:ASN:ND2	2.01	0.73
23:N:324:LYS:HG3	23:N:325:PHE:HD1	1.53	0.73
25:P:221:TYR:HE1	25:P:240:TYR:HB3	1.54	0.73
25:P:360:ILE:HG12	25:P:402:PHE:CE2	2.24	0.73
27:R:305:PHE:HA	27:R:334:ARG:NH1	2.02	0.73
29:T:224:ARG:O	29:T:225:ASN:HB2	1.88	0.73
35:Z:312:TYR:HH	35:Z:348:LEU:HA	1.51	0.73
35:Z:514:ALA:HA	35:Z:546:ILE:HD13	1.71	0.73
6:6:115:SER:HB3	6:6:128:ARG:NH1	2.04	0.73
17:H:147:ILE:CD1	17:H:157:VAL:H	2.00	0.73
18:I:358:LYS:HZ1	18:I:387:LEU:N	1.87	0.73
24:O:185:PHE:HE2	24:O:219:ILE:CG2	2.00	0.73
27:R:199:GLU:CB	27:R:206:ARG:NE	2.51	0.73
30:U:105:LYS:HB3	32:W:58:ASN:ND2	2.04	0.73
31:V:182:LYS:HB3	31:V:185:ILE:HG22	1.71	0.73
32:W:180:LEU:HA	32:W:183:GLU:CD	2.14	0.73
35:Z:890:SER:HB2	35:Z:891:PRO:HD3	1.71	0.73
3:3:60:TYR:HD1	12:C:96:GLN:HB3	1.54	0.72
13:D:78:LEU:HD23	18:I:436:TYR:CE1	2.24	0.72
15:F:65:LYS:CG	15:F:222:PHE:CE2	2.71	0.72
15:F:179:PHE:CZ	15:F:192:ALA:HB2	2.24	0.72
23:N:669:GLU:O	23:N:670:LYS:HB2	1.87	0.72
24:O:250:TRP:CD2	24:O:270:ILE:HG12	2.24	0.72
25:P:241:LEU:HA	25:P:244:ILE:HG22	1.71	0.72
26:Q:162:LEU:HD11	26:Q:178:HIS:NE2	2.04	0.72
30:U:66:TRP:HZ3	30:U:68:LEU:HB2	1.51	0.72
33:X:85:ARG:HH22	33:X:116:ALA:H	1.36	0.72
4:4:117:GLN:HE22	4:4:130:GLY:HA3	1.53	0.72
8:8:279:GLY:O	9:9:6:LYS:NZ	2.16	0.72
24:O:223:LEU:CA	24:O:279:ILE:HG21	2.19	0.72
24:O:347:LEU:HB3	24:O:349:THR:HG23	1.71	0.72
29:T:1:MET:HB2	29:T:2:PRO:HD2	1.69	0.72
30:U:5:HIS:HD1	30:U:6:GLU:N	1.84	0.72
35:Z:397:ASP:HB3	35:Z:425:ILE:CD1	2.19	0.72
35:Z:493:LEU:HD11	35:Z:497:PHE:CD2	2.24	0.72
35:Z:963:ALA:O	35:Z:964:GLU:CD	2.33	0.72
14:E:88:MET:HE2	14:E:142:LEU:HD12	1.66	0.72
21:L:174:GLU:HG2	21:L:175:GLN:NE2	2.04	0.72
26:Q:299:MET:SD	26:Q:335:PHE:HZ	2.11	0.72
26:Q:423:VAL:HG13	27:R:414:LEU:CD1	2.16	0.72
27:R:416:LYS:O	28:S:298:ARG:NH1	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:T:199:PHE:O	29:T:200:LEU:HD23	1.89	0.72
29:T:199:PHE:O	29:T:200:LEU:HG	1.90	0.72
12:C:115:LEU:HD13	12:C:137:TYR:OH	1.89	0.72
19:J:234:PHE:HZ	19:J:279:LEU:CD2	2.02	0.72
25:P:433:ILE:HD11	30:U:203:LYS:CD	2.20	0.72
26:Q:130:ARG:HH21	26:Q:133:LEU:HD12	1.54	0.72
29:T:250:MET:O	29:T:251:HIS:CB	2.37	0.72
31:V:53:MET:HE2	31:V:65:VAL:HG11	1.71	0.72
13:D:190:GLU:OE1	13:D:193:LYS:NZ	2.22	0.72
16:G:87:LEU:HD11	16:G:115:LEU:HD22	1.70	0.72
17:H:95:HIS:HD1	18:I:113:ILE:HD13	1.54	0.72
19:J:167:PRO:HD3	19:J:174:PHE:CZ	2.25	0.72
23:N:685:VAL:HG13	23:N:691:GLN:HG3	1.69	0.72
24:O:303:LYS:O	24:O:304:ASN:CB	2.37	0.72
24:O:303:LYS:NZ	30:U:234:ASN:ND2	2.37	0.72
24:O:343:GLN:HG3	24:O:343:GLN:O	1.89	0.72
24:O:356:ARG:HH21	24:O:362:GLN:CG	2.01	0.72
27:R:59:MET:CE	27:R:143:GLN:O	2.37	0.72
27:R:60:ALA:HB2	27:R:102:LEU:HD22	1.72	0.72
27:R:137:LEU:HG	27:R:141:TYR:HE2	1.55	0.72
27:R:258:LEU:HD12	27:R:266:LEU:HD11	1.70	0.72
35:Z:185:ASP:CG	35:Z:186:GLY:H	1.97	0.72
35:Z:610:GLY:O	35:Z:748:LEU:HB3	1.89	0.72
35:Z:805:LEU:HD22	35:Z:893:PHE:CZ	2.25	0.72
17:H:168:ILE:CG2	17:H:169:GLU:H	1.87	0.72
20:K:242:PHE:HB3	20:K:295:ILE:HD13	1.70	0.72
27:R:101:GLU:HG2	27:R:105:LYS:HE3	1.69	0.72
31:V:37:MET:HE1	31:V:139:VAL:HG11	1.72	0.72
1:1:8:PHE:HZ	1:1:179:THR:HG22	1.55	0.72
12:C:160:TRP:CE3	12:C:163:ILE:CD1	2.69	0.72
18:I:433:GLU:HA	18:I:436:TYR:CE1	2.24	0.72
20:K:210:LEU:HD11	20:K:212:TYR:OH	1.88	0.72
23:N:366:THR:HG23	23:N:747:HIS:HE1	1.55	0.72
23:N:399:PHE:CD1	23:N:441:VAL:HB	2.25	0.72
24:O:42:SER:C	24:O:46:THR:CB	2.61	0.72
24:O:233:LEU:CA	24:O:236:HIS:HB3	2.19	0.72
28:S:257:LEU:O	28:S:259:TYR:CD2	2.42	0.72
29:T:241:GLU:O	29:T:242:LYS:HB3	1.89	0.72
31:V:53:MET:HE3	31:V:65:VAL:HG11	1.72	0.72
33:X:44:GLY:O	33:X:46:TRP:CD1	2.42	0.72
35:Z:312:TYR:OH	35:Z:348:LEU:CD2	2.38	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:Z:491:LEU:HD11	35:Z:900:LEU:HD12	1.70	0.72
17:H:389:PHE:CB	17:H:404:TRP:CE3	2.72	0.72
20:K:240:SER:H	21:L:306:MET:CE	1.96	0.72
23:N:195:THR:OG1	23:N:196:THR:HG23	1.90	0.72
30:U:141:GLU:O	30:U:142:GLN:HB3	1.88	0.72
7:7:54:HIS:CD2	7:7:95:ARG:HH22	2.08	0.72
14:E:231:TYR:CE1	14:E:235:LYS:HB3	2.24	0.72
18:I:339:ILE:HD13	18:I:347:LYS:CE	2.20	0.72
19:J:219:VAL:HB	20:K:281:ARG:HD3	0.73	0.72
21:L:132:ARG:CZ	21:L:156:MET:CG	2.68	0.72
21:L:370:LYS:HD2	21:L:374:PHE:CD1	2.25	0.72
22:M:251:LEU:O	22:M:253:GLN:N	2.23	0.72
23:N:479:GLU:CD	23:N:512:ASN:OD1	2.33	0.72
24:O:300:VAL:HG12	24:O:301:PHE:CE2	2.23	0.72
32:W:143:ASN:CG	32:W:173:THR:HG23	2.14	0.72
35:Z:433:LEU:HD11	35:Z:455:ILE:HG23	1.70	0.72
1:1:18:SER:HB3	1:1:31:THR:OG1	1.90	0.72
1:1:119:VAL:HG21	16:G:103:LYS:NZ	1.98	0.72
10:A:17:THR:HG21	10:A:129:THR:O	1.90	0.72
14:E:165:TYR:CB	14:E:167:TYR:OH	2.38	0.72
19:J:142:VAL:CG1	19:J:204:HIS:CE1	2.73	0.72
19:J:375:ILE:HD12	27:R:204:TRP:CD2	2.24	0.72
21:L:269:TYR:CD2	21:L:273:HIS:CE1	2.78	0.72
21:L:328:ASN:HD22	21:L:329:ARG:HG2	1.54	0.72
22:M:307:GLU:CG	22:M:311:GLN:NE2	2.52	0.72
25:P:308:LEU:HD23	25:P:369:LEU:CD2	2.20	0.72
26:Q:47:ASP:OD1	26:Q:50:ARG:HG2	1.89	0.72
26:Q:391:ASP:OD1	27:R:347:THR:HB	1.90	0.72
27:R:252:TYR:CD1	27:R:321:TYR:HB3	2.24	0.72
28:S:381:VAL:CG1	29:T:123:HIS:NE2	2.51	0.72
29:T:197:TYR:CE1	29:T:199:PHE:N	2.58	0.72
5:5:6:PHE:CZ	5:5:13:ILE:CB	2.73	0.71
5:5:51:ASP:OD2	5:5:95:LEU:HA	1.90	0.71
12:C:208:TYR:HA	12:C:235:ILE:HG21	1.72	0.71
19:J:183:LYS:HB3	19:J:276:LEU:HD13	1.72	0.71
24:O:87:LYS:HD3	24:O:132:GLU:OE1	1.90	0.71
8:8:264:HIS:ND1	9:9:10:GLY:HA3	2.05	0.71
11:B:32:VAL:HG13	11:B:48:GLU:OE1	1.90	0.71
14:E:231:TYR:OH	14:E:235:LYS:O	2.07	0.71
16:G:197:LYS:CD	16:G:241:PHE:CE2	2.72	0.71
20:K:188:VAL:HA	20:K:313:LYS:HZ1	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:N:421:ASP:N	23:N:424:LYS:HZ3	1.87	0.71
35:Z:433:LEU:HD12	35:Z:455:ILE:HG12	1.71	0.71
8:8:212:GLU:CG	9:9:42:ARG:CZ	2.68	0.71
17:H:146:VAL:H	17:H:157:VAL:HG21	1.54	0.71
17:H:198:MET:SD	17:H:272:ILE:HG23	2.29	0.71
19:J:115:LEU:HD23	19:J:116:ARG:O	1.91	0.71
25:P:283:LYS:HB3	25:P:286:ASN:HB3	1.71	0.71
27:R:396:LYS:HG2	27:R:400:TYR:HE2	1.55	0.71
33:X:40:GLU:O	33:X:41:GLU:CB	2.38	0.71
35:Z:867:PHE:HD2	35:Z:871:HIS:HA	1.53	0.71
8:8:282:GLU:OE2	9:9:66:THR:HG21	1.89	0.71
17:H:168:ILE:CG2	17:H:169:GLU:N	2.42	0.71
19:J:329:ARG:CG	19:J:333:ARG:NH1	2.51	0.71
20:K:280:LYS:NZ	20:K:293:GLN:HA	2.05	0.71
21:L:206:ILE:HG12	21:L:209:ARG:NH2	2.05	0.71
24:O:223:LEU:O	24:O:279:ILE:CG2	2.38	0.71
24:O:306:ARG:HG3	24:O:352:TRP:N	2.03	0.71
28:S:188:TYR:OH	28:S:210:LEU:CD2	2.31	0.71
35:Z:609:THR:CG2	35:Z:745:LEU:HD22	2.21	0.71
17:H:249:TYR:CE2	17:H:374:LYS:HG2	2.25	0.71
17:H:340:LEU:HD11	17:H:370:ARG:NH1	2.05	0.71
21:L:177:GLU:OE2	21:L:233:LYS:NZ	2.19	0.71
23:N:391:PRO:HA	23:N:401:LYS:HD3	1.72	0.71
25:P:115:ARG:HH22	25:P:142:ASP:HB3	1.55	0.71
25:P:221:TYR:CZ	25:P:244:ILE:HB	2.26	0.71
25:P:425:HIS:CG	30:U:225:ILE:CG2	2.67	0.71
28:S:435:LYS:HZ1	29:T:238:GLN:CD	1.96	0.71
30:U:273:LEU:HG	30:U:277:TYR:CE2	2.24	0.71
31:V:24:LYS:NZ	31:V:197:TYR:CE2	2.58	0.71
19:J:273:LEU:HD11	19:J:304:LEU:HD23	1.71	0.71
21:L:161:ARG:HH21	21:L:261:ARG:CZ	2.02	0.71
21:L:221:TYR:CZ	21:L:348:GLU:CB	2.74	0.71
25:P:308:LEU:HD13	25:P:345:VAL:HG22	1.73	0.71
26:Q:174:LEU:HD11	26:Q:178:HIS:CE1	2.24	0.71
26:Q:266:LEU:HD21	26:Q:281:ILE:HG21	1.71	0.71
30:U:37:ILE:HD13	30:U:121:LEU:CD1	2.20	0.71
8:8:320:LYS:CE	17:H:164:SER:OG	2.32	0.71
11:B:104:TYR:OH	11:B:140:ASP:HA	1.90	0.71
11:B:158:PRO:O	12:C:57:LEU:HD11	1.88	0.71
18:I:282:ASP:OD1	18:I:283:GLU:HG3	1.91	0.71
20:K:67:TYR:CE2	23:N:576:VAL:HB	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:L:189:GLN:OE1	21:L:349:ILE:HG12	1.90	0.71
24:O:117:ASN:HD22	24:O:167:ILE:HA	1.55	0.71
24:O:339:GLY:O	24:O:340:SER:HB2	1.91	0.71
26:Q:61:LEU:O	26:Q:65:TYR:CD1	2.44	0.71
35:Z:312:TYR:OH	35:Z:348:LEU:CB	2.38	0.71
19:J:131:ASP:H	19:J:132:PRO:HD2	1.55	0.71
19:J:375:ILE:CD1	27:R:204:TRP:CE3	2.69	0.71
23:N:89:PHE:CE1	23:N:101:ILE:HD11	2.26	0.71
24:O:230:PHE:CD1	24:O:251:LEU:CD1	2.73	0.71
24:O:306:ARG:HG3	24:O:351:SER:CA	2.21	0.71
25:P:177:ILE:CD1	25:P:216:LEU:HD13	2.20	0.71
25:P:369:LEU:HB3	25:P:371:LEU:CD1	2.21	0.71
29:T:156:SER:HB3	29:T:159:LYS:HB2	1.72	0.71
29:T:197:TYR:CD1	29:T:198:ASP:CA	2.74	0.71
33:X:12:ALA:HB3	33:X:33:ILE:CB	2.20	0.71
8:8:320:LYS:HE3	17:H:164:SER:HB3	0.78	0.71
14:E:88:MET:HE1	14:E:142:LEU:CD1	2.19	0.71
15:F:50:LYS:HE3	15:F:212:SER:CB	2.21	0.71
17:H:412:PRO:O	17:H:413:ASN:ND2	2.24	0.71
18:I:366:THR:HG21	18:I:377:LEU:CD2	2.21	0.71
24:O:78:VAL:HG11	24:O:106:PHE:CE2	2.24	0.71
24:O:232:GLU:O	24:O:236:HIS:HB3	1.90	0.71
25:P:184:MET:HB2	25:P:223:LEU:HD22	1.72	0.71
25:P:308:LEU:HD22	25:P:369:LEU:CD2	2.20	0.71
26:Q:243:PHE:CE1	26:Q:287:THR:CA	2.39	0.71
28:S:323:LEU:HD23	28:S:383:LEU:CD2	2.21	0.71
30:U:107:ASN:HD21	30:U:111:LYS:HE3	1.55	0.71
35:Z:64:TYR:CD1	35:Z:111:LEU:HB3	2.26	0.71
35:Z:138:ARG:CD	35:Z:157:LEU:HD13	2.19	0.71
35:Z:862:MET:HE2	35:Z:910:PRO:HG3	1.72	0.71
6:6:-6:PRO:HA	7:7:125:LEU:HD22	1.71	0.71
6:6:91:LYS:HB2	6:6:96:TYR:CZ	2.26	0.71
8:8:330:LEU:CD1	17:H:166:THR:CB	2.68	0.71
23:N:21:LYS:HE2	23:N:55:PHE:CE2	2.25	0.71
23:N:666:GLN:HA	23:N:873:ARG:NH2	2.06	0.71
26:Q:135:HIS:CG	26:Q:161:LEU:CD2	2.74	0.71
26:Q:314:PHE:CE2	26:Q:339:TYR:HD1	2.03	0.71
33:X:10:PHE:C	33:X:33:ILE:HG22	2.16	0.71
35:Z:551:LEU:HD12	35:Z:591:ILE:HG22	1.72	0.71
4:4:43:MET:CG	4:4:45:PHE:HZ	2.03	0.70
15:F:74:LEU:HA	15:F:132:LEU:HD23	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:I:228:GLY:HA3	18:I:350:PHE:CZ	2.26	0.70
20:K:113:THR:C	20:K:252:ARG:HH12	1.98	0.70
21:L:279:PHE:CE2	21:L:281:ASP:OD1	2.43	0.70
24:O:373:TRP:CH2	30:U:233:PHE:CB	2.73	0.70
26:Q:46:VAL:CG2	26:Q:50:ARG:HB2	2.14	0.70
26:Q:351:ILE:HG22	26:Q:362:ILE:HD13	1.71	0.70
29:T:198:ASP:OD1	29:T:199:PHE:N	2.24	0.70
30:U:280:ASN:HD21	31:V:291:ASN:CG	1.99	0.70
35:Z:868:ASN:ND2	35:Z:870:ALA:HB3	2.05	0.70
11:B:27:ALA:HA	20:K:426:PHE:CE1	2.26	0.70
19:J:27:ILE:HG12	20:K:51:LEU:HD21	1.73	0.70
23:N:293:LEU:HB3	23:N:294:PRO:HD3	1.73	0.70
25:P:181:LEU:CA	25:P:223:LEU:HD11	2.21	0.70
25:P:311:TRP:CH2	25:P:338:TRP:NE1	2.58	0.70
26:Q:179:LEU:HD13	26:Q:218:LEU:HD23	1.73	0.70
4:4:55:PHE:CZ	4:4:59:ILE:HG13	2.26	0.70
8:8:283:LYS:H	9:9:12:THR:N	1.88	0.70
13:D:106:VAL:CG1	13:D:148:TYR:CE2	2.74	0.70
17:H:99:VAL:HG22	17:H:173:ARG:HH22	1.52	0.70
25:P:266:TYR:OH	25:P:322:LEU:HA	1.91	0.70
26:Q:243:PHE:HE1	26:Q:287:THR:CG2	2.03	0.70
30:U:53:ALA:HB3	31:V:98:THR:HB	1.74	0.70
32:W:20:ASP:O	32:W:21:PHE:CB	2.39	0.70
35:Z:305:VAL:HG13	35:Z:982:ILE:CG1	2.20	0.70
35:Z:352:LYS:O	35:Z:353:VAL:CG2	2.37	0.70
1:1:124:TYR:CD1	1:1:142:PHE:CE2	2.79	0.70
8:8:326:LYS:NZ	9:9:74:ARG:HE	1.87	0.70
11:B:27:ALA:CA	20:K:426:PHE:HE1	2.04	0.70
14:E:109:VAL:HG11	14:E:156:PHE:HD1	1.53	0.70
20:K:113:THR:HA	20:K:252:ARG:CZ	2.20	0.70
27:R:263:ARG:HD3	27:R:296:LEU:HG	1.71	0.70
30:U:35:GLY:CA	30:U:93:TYR:CB	2.64	0.70
2:2:104:ASP:CG	2:2:106:THR:HG1	2.00	0.70
12:C:136:ILE:HD11	12:C:165:VAL:HG22	1.73	0.70
19:J:111:GLN:NE2	19:J:125:VAL:CG1	2.54	0.70
19:J:236:MET:O	19:J:240:HIS:ND1	2.15	0.70
21:L:259:SER:OG	21:L:303:ARG:NH2	2.22	0.70
22:M:289:LYS:HZ3	22:M:302:GLN:HE22	1.37	0.70
22:M:410:VAL:HG13	22:M:414:ASP:HB3	1.73	0.70
23:N:19:SER:CB	29:T:35:ILE:CG2	2.55	0.70
28:S:425:ARG:HH11	29:T:155:GLY:HA2	1.54	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:T:85:LEU:HD21	29:T:105:LEU:HD13	1.73	0.70
35:Z:133:ASP:CA	35:Z:137:TYR:CE1	2.72	0.70
1:1:80:SER:CB	16:G:103:LYS:HG3	2.22	0.70
14:E:98:THR:CG2	14:E:102:TYR:HE1	2.05	0.70
14:E:231:TYR:CD2	14:E:236:THR:OG1	2.45	0.70
18:I:281:ILE:CG2	18:I:284:ILE:CG1	2.69	0.70
19:J:219:VAL:CA	20:K:281:ARG:HD3	2.21	0.70
23:N:14:ARG:NE	23:N:42:GLU:OE1	2.23	0.70
24:O:352:TRP:HZ3	30:U:228:LYS:HG3	1.56	0.70
1:1:190:PRO:HA	1:1:193:TYR:CE1	2.26	0.70
4:4:26:VAL:HG12	4:4:28:LYS:O	1.90	0.70
6:6:115:SER:OG	6:6:128:ARG:CZ	2.38	0.70
8:8:283:LYS:CA	9:9:12:THR:HB	2.17	0.70
13:D:49:ARG:HG2	13:D:203:VAL:HG13	1.72	0.70
15:F:69:HIS:CE1	15:F:102:LYS:HB3	2.26	0.70
19:J:33:LYS:O	19:J:37:LYS:HG2	1.92	0.70
24:O:43:GLU:OE2	24:O:44:SER:CB	2.26	0.70
26:Q:51:ARG:CD	26:Q:96:VAL:HG21	2.20	0.70
26:Q:243:PHE:CZ	26:Q:287:THR:CB	2.72	0.70
28:S:159:ASN:HB2	28:S:187:ILE:HD11	1.74	0.70
33:X:46:TRP:CE2	33:X:132:SER:HA	2.26	0.70
35:Z:183:LYS:NZ	35:Z:579:GLU:OE2	2.16	0.70
35:Z:193:PHE:CE2	35:Z:200:THR:HG21	2.26	0.70
35:Z:786:SER:O	35:Z:787:ASP:CB	2.39	0.70
11:B:17:LYS:HD2	11:B:22:ASP:OD2	1.92	0.70
15:F:49:LEU:CD1	15:F:210:ASN:HB3	2.22	0.70
15:F:120:THR:O	16:G:129:ARG:CZ	2.39	0.70
20:K:347:ARG:HH11	26:Q:205:ALA:CB	2.01	0.70
22:M:146:VAL:HG12	22:M:158:THR:HG23	1.72	0.70
26:Q:65:TYR:CB	26:Q:74:LEU:HD22	2.22	0.70
30:U:38:LEU:HB2	30:U:88:LYS:C	2.17	0.70
31:V:52:LEU:O	31:V:108:TYR:HE1	1.75	0.70
32:W:3:LEU:HB3	32:W:106:GLN:HG2	1.74	0.70
32:W:32:SER:O	32:W:36:ILE:CG1	2.40	0.70
2:2:94:ILE:CG2	3:3:90:ARG:HH21	2.05	0.70
7:7:170:VAL:HG12	7:7:174:ARG:HH22	1.55	0.70
8:8:484:GLY:HA3	17:H:187:LEU:HA	1.72	0.70
16:G:197:LYS:CD	16:G:241:PHE:HE2	2.04	0.70
19:J:162:GLU:HA	19:J:166:LEU:HD12	1.73	0.70
19:J:216:ALA:O	19:J:219:VAL:HG23	1.90	0.70
24:O:203:THR:O	24:O:204:SER:HB2	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O:223:LEU:O	24:O:279:ILE:HG21	1.92	0.70
26:Q:85:MET:HE2	26:Q:93:THR:HG23	1.73	0.70
26:Q:351:ILE:HG22	26:Q:362:ILE:CD1	2.22	0.70
27:R:94:PHE:CZ	27:R:99:TYR:CE2	2.80	0.70
20:K:300:LEU:O	20:K:333:ARG:NH2	2.18	0.70
21:L:227:GLY:H	22:M:339:ARG:HH22	1.40	0.70
22:M:307:GLU:CG	22:M:311:GLN:HE21	2.05	0.70
23:N:771:PHE:HE2	23:N:885:ILE:CB	2.05	0.70
24:O:373:TRP:CD1	30:U:200:LEU:CG	2.75	0.70
35:Z:126:TYR:O	35:Z:127:SER:CB	2.38	0.70
21:L:259:SER:CB	21:L:303:ARG:CZ	2.69	0.69
21:L:336:ALA:HA	21:L:339:ARG:HE	1.57	0.69
23:N:137:PHE:HE2	23:N:165:ILE:HG13	1.55	0.69
27:R:339:ALA:HB2	27:R:377:LEU:HD22	1.74	0.69
35:Z:924:LYS:HD3	35:Z:958:ASN:OD1	1.92	0.69
7:7:8:TYR:OH	7:7:11:GLY:HA3	1.92	0.69
7:7:85:PHE:HE2	7:7:120:ARG:CZ	2.05	0.69
17:H:95:HIS:HE1	18:I:117:HIS:ND1	1.89	0.69
19:J:350:MET:HG2	19:J:386:VAL:HG13	1.72	0.69
20:K:123:LEU:HD12	20:K:126:LEU:HD11	1.73	0.69
21:L:253:ASP:HA	22:M:256:ILE:HG21	1.73	0.69
23:N:21:LYS:HG3	23:N:55:PHE:CG	2.27	0.69
23:N:49:LEU:HD13	23:N:57:ASP:OD2	1.92	0.69
23:N:414:GLY:HA3	23:N:728:LYS:NZ	2.06	0.69
24:O:358:ILE:CG2	24:O:359:SER:H	2.04	0.69
25:P:265:VAL:HG22	25:P:280:LEU:CD2	2.22	0.69
27:R:308:LEU:HD12	27:R:334:ARG:HH11	1.50	0.69
29:T:197:TYR:O	29:T:198:ASP:HB3	1.92	0.69
32:W:20:ASP:O	32:W:21:PHE:HD1	1.76	0.69
33:X:41:GLU:HB2	33:X:45:PHE:N	2.06	0.69
11:B:85:LEU:HD21	11:B:118:MET:HE3	1.73	0.69
13:D:106:VAL:HG11	13:D:148:TYR:CE2	2.28	0.69
18:I:128:TYR:CD2	18:I:154:MET:HG3	2.27	0.69
18:I:244:PHE:HE1	18:I:246:ARG:CG	2.04	0.69
19:J:37:LYS:HE3	20:K:58:TYR:CE1	2.26	0.69
19:J:167:PRO:CG	19:J:174:PHE:CZ	2.75	0.69
20:K:254:VAL:CG1	20:K:299:LEU:CD2	2.65	0.69
27:R:312:TYR:CE2	34:Y:73:PHE:CD1	2.80	0.69
29:T:249:MET:O	29:T:250:MET:HB3	1.90	0.69
30:U:223:HIS:HE1	30:U:224:THR:OG1	1.67	0.69
31:V:117:TRP:CE2	31:V:196:TYR:HB2	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:W:1:MET:H2	32:W:44:ASN:HD21	1.39	0.69
35:Z:397:ASP:OD2	35:Z:426:TYR:CE1	2.45	0.69
4:4:37:LEU:HD21	4:4:43:MET:CE	2.23	0.69
13:D:203:VAL:O	13:D:204:GLN:HB2	1.91	0.69
16:G:140:VAL:CG2	16:G:220:LEU:CD2	2.41	0.69
18:I:110:GLU:HB3	18:I:119:ILE:HG23	1.74	0.69
19:J:136:LEU:HD22	19:J:217:GLU:CD	2.17	0.69
20:K:254:VAL:HG13	20:K:258:PHE:CE1	2.25	0.69
24:O:177:GLN:O	24:O:181:PHE:CD2	2.45	0.69
24:O:344:VAL:CG2	25:P:361:THR:CG2	2.70	0.69
26:Q:253:ASN:ND2	26:Q:258:ALA:HB2	2.06	0.69
29:T:197:TYR:CD2	29:T:235:PHE:CZ	2.74	0.69
35:Z:193:PHE:HE2	35:Z:200:THR:HG21	1.57	0.69
8:8:320:LYS:HE2	17:H:164:SER:HB2	1.71	0.69
16:G:164:THR:HA	16:G:168:ARG:HE	1.56	0.69
19:J:191:PRO:HA	19:J:295:ASN:ND2	2.07	0.69
22:M:228:LYS:HE2	22:M:326:ALA:HB1	1.75	0.69
24:O:188:PHE:HD2	24:O:220:SER:HB3	1.53	0.69
30:U:16:LEU:HD22	31:V:209:GLU:CG	2.22	0.69
35:Z:318:LYS:NZ	35:Z:459:ALA:C	2.45	0.69
35:Z:854:LEU:HD22	35:Z:904:LEU:HD13	1.75	0.69
4:4:43:MET:HG3	4:4:45:PHE:HZ	1.56	0.69
10:A:32:PHE:CZ	20:K:428:LYS:NZ	2.59	0.69
17:H:168:ILE:HG12	17:H:186:PRO:CB	2.23	0.69
19:J:150:VAL:CG2	19:J:153:LEU:HD11	2.18	0.69
20:K:134:SER:HB3	20:K:255:ARG:NH2	2.01	0.69
21:L:132:ARG:CZ	21:L:156:MET:HG2	2.23	0.69
23:N:49:LEU:CD2	23:N:55:PHE:CD1	2.76	0.69
25:P:133:GLU:HG3	25:P:135:GLU:H	1.57	0.69
26:Q:416:VAL:HG21	27:R:403:LEU:HD22	1.74	0.69
32:W:114:VAL:O	32:W:114:VAL:HG12	1.92	0.69
35:Z:189:ALA:CB	35:Z:193:PHE:CD2	2.74	0.69
10:A:104:PHE:CD2	10:A:110:TYR:O	2.45	0.69
11:B:179:TRP:HD1	11:B:183:LEU:HD13	0.69	0.69
17:H:102:CYS:SG	17:H:174:VAL:HG22	2.33	0.69
19:J:219:VAL:CA	20:K:281:ARG:CD	2.71	0.69
23:N:421:ASP:HA	23:N:424:LYS:CE	2.23	0.69
24:O:5:HIS:ND1	24:O:27:GLU:HB3	2.08	0.69
24:O:293:LEU:HG	24:O:297:ILE:HD11	1.74	0.69
27:R:33:LEU:CD1	27:R:43:ARG:HG3	2.23	0.69
27:R:343:GLU:HG2	27:R:392:ARG:HH12	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U:38:LEU:HB3	30:U:89:LEU:HD23	1.75	0.69
30:U:92:TRP:CE3	30:U:106:ILE:CG2	2.76	0.69
4:4:69:ARG:HG3	13:D:90:ARG:HH11	1.55	0.69
10:A:40:ILE:HD13	10:A:84:ASN:HA	1.75	0.69
12:C:53:THR:OG1	12:C:210:ARG:HG2	1.92	0.69
13:D:157:SER:HB3	13:D:159:TRP:HE1	1.57	0.69
17:H:95:HIS:CE1	18:I:117:HIS:ND1	2.60	0.69
17:H:382:LEU:HD12	17:H:408:SER:HB3	1.72	0.69
18:I:244:PHE:CE1	18:I:246:ARG:CG	2.75	0.69
19:J:167:PRO:HG3	19:J:174:PHE:CZ	2.27	0.69
21:L:426:LYS:HG3	21:L:427:LYS:N	2.08	0.69
22:M:163:PHE:CG	22:M:261:LYS:HE3	2.27	0.69
26:Q:51:ARG:HH22	26:Q:92:LYS:CD	2.00	0.69
30:U:16:LEU:HD22	31:V:209:GLU:HG2	1.73	0.69
32:W:9:VAL:O	32:W:113:PHE:CD2	2.41	0.69
32:W:163:ASN:HB3	32:W:164:PRO:HD2	1.73	0.69
33:X:85:ARG:NH1	33:X:106:SER:HB3	2.07	0.69
1:1:45:ARG:HH22	1:1:53:GLN:CB	2.03	0.69
10:A:53:VAL:HG11	10:A:82:VAL:HG21	1.74	0.69
12:C:160:TRP:CH2	12:C:163:ILE:HD13	2.27	0.69
20:K:347:ARG:HH11	26:Q:205:ALA:HB3	1.55	0.69
24:O:66:VAL:CG1	24:O:106:PHE:CZ	2.75	0.69
24:O:79:VAL:CG2	24:O:122:HIS:CG	2.76	0.69
24:O:119:SER:C	24:O:166:ARG:HD3	2.18	0.69
24:O:230:PHE:CE1	24:O:251:LEU:CG	2.50	0.69
30:U:35:GLY:HA3	30:U:93:TYR:HB3	1.73	0.69
31:V:118:LEU:HD13	31:V:140:VAL:CB	2.15	0.69
7:7:-3:VAL:HG12	7:7:49:ILE:CG1	2.22	0.69
8:8:283:LYS:H	9:9:12:THR:H	1.41	0.69
16:G:98:PHE:CE2	16:G:106:ILE:HA	2.28	0.69
16:G:174:GLU:HB2	16:G:201:LEU:HD23	1.74	0.69
22:M:162:GLU:HB2	22:M:166:ARG:HE	1.58	0.69
24:O:79:VAL:HG21	24:O:123:GLY:N	2.08	0.69
25:P:203:ILE:HG21	25:P:220:TYR:CE1	2.27	0.69
25:P:425:HIS:CD2	30:U:225:ILE:HG12	2.28	0.69
30:U:37:ILE:HD13	30:U:121:LEU:HD12	1.75	0.69
35:Z:64:TYR:OH	35:Z:115:LEU:HD22	1.92	0.69
8:8:116:ASN:CA	9:9:76:GLZ:CA	2.71	0.68
12:C:115:LEU:CD1	12:C:137:TYR:OH	2.41	0.68
23:N:399:PHE:CE1	23:N:441:VAL:HG23	1.94	0.68
25:P:241:LEU:HD13	25:P:264:ILE:HG12	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Q:14:LEU:HD13	26:Q:26:VAL:HG23	1.73	0.68
26:Q:174:LEU:CD1	26:Q:178:HIS:CE1	2.76	0.68
15:F:49:LEU:HD12	15:F:210:ASN:HB3	1.75	0.68
18:I:222:TYR:CE1	18:I:349:LEU:HA	2.28	0.68
23:N:365:PHE:CZ	23:N:406:TYR:CB	2.75	0.68
24:O:303:LYS:HZ2	30:U:234:ASN:ND2	1.90	0.68
25:P:303:PHE:C	25:P:348:HIS:NE2	2.50	0.68
26:Q:269:LYS:HZ1	26:Q:281:ILE:HD11	1.55	0.68
27:R:353:MET:HA	27:R:357:PHE:CG	2.27	0.68
28:S:230:LYS:HE3	28:S:234:ILE:HD11	1.75	0.68
28:S:471:LEU:HB2	30:U:288:PHE:CZ	2.28	0.68
31:V:53:MET:HE2	31:V:65:VAL:CG1	2.23	0.68
31:V:114:PHE:HD1	31:V:118:LEU:C	2.01	0.68
32:W:71:LYS:HA	32:W:74:ALA:CB	2.22	0.68
35:Z:230:ILE:HG22	35:Z:231:ASP:N	2.07	0.68
2:2:8:PHE:CE2	2:2:11:GLY:HA3	2.27	0.68
6:6:116:PHE:CD2	6:6:122:TYR:HB3	2.28	0.68
14:E:204:LEU:O	14:E:208:MET:HG3	1.92	0.68
16:G:140:VAL:HB	16:G:220:LEU:HD21	1.76	0.68
18:I:182:SER:O	18:I:360:LYS:HE2	1.93	0.68
21:L:251:ILE:C	21:L:252:VAL:N	2.52	0.68
24:O:230:PHE:CD1	24:O:251:LEU:HD11	2.29	0.68
31:V:109:HIS:CE1	31:V:122:ASP:OD1	2.46	0.68
31:V:117:TRP:CZ2	31:V:196:TYR:CA	2.72	0.68
32:W:101:ARG:NH1	32:W:104:LYS:HG2	2.02	0.68
7:7:92:MET:CE	7:7:102:LEU:HD23	2.24	0.68
11:B:75:TYR:HB3	11:B:134:LEU:HD23	1.73	0.68
11:B:231:LYS:HD3	11:B:234:ARG:HH22	1.57	0.68
12:C:42:ASP:HA	12:C:218:LYS:HZ2	1.56	0.68
16:G:114:ARG:O	16:G:118:TYR:CD2	2.47	0.68
19:J:37:LYS:HE3	20:K:58:TYR:OH	1.94	0.68
19:J:40:ASN:CB	20:K:65:GLU:OE2	2.40	0.68
24:O:325:GLU:O	24:O:329:MET:CG	2.40	0.68
26:Q:419:LEU:HD23	26:Q:419:LEU:C	2.19	0.68
27:R:418:GLY:O	28:S:475:TYR:HE1	1.77	0.68
30:U:158:PRO:O	30:U:159:CYS:HB2	1.92	0.68
35:Z:103:TYR:HA	35:Z:112:LYS:CG	2.23	0.68
5:5:83:LEU:O	5:5:87:VAL:HG23	1.93	0.68
8:8:212:GLU:CD	9:9:42:ARG:CD	2.57	0.68
8:8:217:LEU:O	8:8:221[B]:MSE:HG2	1.94	0.68
19:J:333:ARG:HH12	19:J:343:LEU:CD1	2.04	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:L:132:ARG:NH2	21:L:149:ASP:OD1	2.27	0.68
21:L:379:ALA:HA	21:L:382:MET:CE	2.24	0.68
22:M:216:LYS:NZ	22:M:320:ARG:H	1.92	0.68
22:M:415:PHE:CE1	22:M:419:ILE:HD11	2.27	0.68
23:N:52:ASP:O	23:N:53:ASP:CB	2.41	0.68
24:O:230:PHE:CE1	24:O:251:LEU:CD1	2.76	0.68
27:R:422:ARG:NH1	28:S:301:PRO:HG3	2.04	0.68
33:X:33:ILE:HG13	33:X:48:PHE:CZ	2.28	0.68
35:Z:133:ASP:CG	35:Z:134:SER:H	2.00	0.68
35:Z:193:PHE:CE2	35:Z:196:SER:CA	2.76	0.68
35:Z:312:TYR:CE1	35:Z:348:LEU:O	2.46	0.68
35:Z:325:GLY:O	35:Z:326:VAL:CG2	2.41	0.68
4:4:36:GLN:NE2	4:4:39:PRO:HA	2.06	0.68
12:C:213:PHE:HE2	12:C:230:PHE:CE2	2.11	0.68
19:J:119:SER:O	19:J:120:TYR:CG	2.47	0.68
20:K:331:PRO:HA	20:K:335:ASP:OD1	1.93	0.68
21:L:252:VAL:CG1	22:M:256:ILE:HD11	1.87	0.68
22:M:75:LEU:CD2	22:M:77:TYR:HE1	2.06	0.68
23:N:405:LEU:HD11	23:N:426:ILE:HD13	1.76	0.68
23:N:525:ASN:ND2	23:N:535:LEU:HD23	2.09	0.68
29:T:199:PHE:O	29:T:200:LEU:CD2	2.41	0.68
35:Z:321:PHE:CZ	35:Z:351:PRO:HD3	2.27	0.68
6:6:66:TYR:HE2	6:6:73:LYS:O	1.77	0.68
17:H:155:PHE:CD1	22:M:76:PRO:HA	2.28	0.68
23:N:238:ALA:O	23:N:242:PHE:CD2	2.46	0.68
25:P:147:LYS:NZ	25:P:159:ILE:HG13	2.09	0.68
27:R:191:LEU:CB	27:R:213:TYR:HE2	2.06	0.68
28:S:185:PHE:HD1	28:S:239:ARG:CZ	2.07	0.68
31:V:113:GLY:HA2	31:V:118:LEU:CD2	2.24	0.68
32:W:20:ASP:O	32:W:21:PHE:CD1	2.47	0.68
35:Z:737:ALA:HB1	35:Z:775:MET:CE	2.24	0.68
35:Z:924:LYS:CB	35:Z:959:HIS:ND1	2.57	0.68
5:5:83:LEU:HD11	5:5:97:MET:CE	2.23	0.68
8:8:133:LEU:HD11	8:8:221[A]:MSE:SE	2.44	0.68
8:8:264:HIS:HE1	9:9:10:GLY:HA2	1.52	0.68
8:8:329:ILE:CA	17:H:163:VAL:HG23	1.88	0.68
17:H:187:LEU:HD22	18:I:115:ASP:OD1	1.94	0.68
20:K:68:ILE:CD1	23:N:608:LEU:CD2	2.72	0.68
20:K:254:VAL:HG13	20:K:299:LEU:HD23	1.76	0.68
20:K:350:ARG:NH2	26:Q:215:VAL:CG1	2.57	0.68
24:O:205:ILE:HD12	24:O:210:ARG:CD	2.22	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:P:134:VAL:HG23	25:P:138:ARG:NH1	2.08	0.68
25:P:302:LEU:CB	25:P:310:ARG:HH21	2.07	0.68
28:S:286:TYR:OH	28:S:323:LEU:HD22	1.94	0.68
28:S:465:ILE:HG13	29:T:266:TYR:HE2	1.56	0.68
31:V:133:ASN:O	31:V:134:SER:CB	2.42	0.68
33:X:41:GLU:HG3	33:X:45:PHE:CB	2.23	0.68
1:1:19:ARG:HH11	1:1:29:ARG:HG3	1.53	0.68
4:4:80:SER:CB	4:4:124:LYS:HD2	2.15	0.68
17:H:243:PRO:HG2	17:H:373:ARG:HE	1.58	0.68
20:K:99:PHE:CE1	20:K:101:GLU:O	2.47	0.68
24:O:306:ARG:CG	24:O:350:ILE:O	2.40	0.68
27:R:259:PHE:CD2	27:R:329:PHE:CD1	2.82	0.68
3:3:179:TYR:HE2	3:3:188:LYS:HD2	1.58	0.68
7:7:17:ASP:O	7:7:33:ARG:HD3	1.94	0.68
10:A:21:PRO:HB2	10:A:22:GLU:OE2	1.93	0.68
11:B:221:LEU:O	11:B:233:PRO:HD2	1.93	0.68
14:E:107:ILE:HD13	14:E:112:LEU:HD21	1.76	0.68
23:N:14:ARG:CB	29:T:80:ASN:HD21	2.06	0.68
30:U:283:ARG:NH2	31:V:283:THR:HG22	2.07	0.68
34:Y:80:GLU:CD	34:Y:83:ARG:HH21	2.01	0.68
35:Z:321:PHE:CZ	35:Z:351:PRO:N	2.62	0.68
5:5:40:PHE:CD2	5:5:41:LEU:HG	2.29	0.67
7:7:8:TYR:CE2	7:7:11:GLY:N	2.62	0.67
11:B:27:ALA:HB1	20:K:426:PHE:HE1	1.57	0.67
17:H:207:THR:CG2	17:H:208:TYR:CD2	2.77	0.67
19:J:113:VAL:HG21	19:J:122:LEU:HD22	1.76	0.67
24:O:373:TRP:CZ3	30:U:233:PHE:HB2	2.25	0.67
29:T:245:TYR:O	29:T:246:GLU:HB3	1.92	0.67
33:X:75:TRP:CH2	33:X:125:MET:HG3	2.29	0.67
35:Z:510:LEU:CD1	35:Z:542:ILE:HG12	2.18	0.67
7:7:119:LEU:HG	7:7:134:LEU:HD12	1.77	0.67
10:A:135:ARG:HE	16:G:124:LEU:HD23	1.57	0.67
15:F:80:ASP:CG	15:F:126:ARG:HH22	2.02	0.67
23:N:574:VAL:HG13	23:N:578:ASP:OD2	1.95	0.67
24:O:124:ASP:CB	24:O:127:LEU:HD13	2.21	0.67
24:O:185:PHE:HD2	24:O:220:SER:HA	1.58	0.67
24:O:366:MET:HE3	30:U:226:LEU:CD1	2.24	0.67
25:P:121:THR:HG22	25:P:122:ILE:HG23	1.75	0.67
28:S:404:LEU:HG	28:S:408:CYS:SG	2.34	0.67
30:U:16:LEU:HD23	31:V:209:GLU:HG2	1.75	0.67
32:W:37:PHE:CZ	32:W:49:VAL:CG1	2.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:Z:329:ILE:HD11	35:Z:335:LEU:HB3	1.74	0.67
7:7:85:PHE:CE2	7:7:120:ARG:CD	2.77	0.67
20:K:346:ARG:CZ	20:K:372:ILE:HD13	2.25	0.67
21:L:370:LYS:HD2	21:L:374:PHE:CZ	2.28	0.67
22:M:257:GLY:O	22:M:260:ALA:HB3	1.95	0.67
22:M:410:VAL:CG1	22:M:414:ASP:HB2	2.24	0.67
25:P:302:LEU:HB2	25:P:310:ARG:NH2	2.08	0.67
25:P:433:ILE:HD11	30:U:203:LYS:HD2	1.76	0.67
27:R:135:ILE:HA	27:R:154:LEU:HD13	1.76	0.67
31:V:244:MET:O	31:V:247:ILE:HG22	1.93	0.67
35:Z:133:ASP:CA	35:Z:137:TYR:CG	2.73	0.67
35:Z:758:LEU:HD22	35:Z:791:LYS:CD	2.20	0.67
3:3:179:TYR:CZ	3:3:188:LYS:HE3	2.30	0.67
13:D:11:PHE:CE1	14:E:136:ARG:HB2	2.29	0.67
15:F:201:LEU:HD13	15:F:206:LEU:HD12	1.71	0.67
16:G:121:ALA:O	16:G:125:TYR:CD1	2.44	0.67
17:H:105:ILE:HD13	17:H:146:VAL:HA	1.76	0.67
18:I:176:SER:O	19:J:282:PHE:CD1	2.48	0.67
22:M:50:ARG:N	32:W:73:LEU:HD13	2.09	0.67
23:N:596:LEU:HD23	23:N:628:ALA:HA	1.75	0.67
35:Z:401:VAL:HG21	35:Z:426:TYR:OH	1.92	0.67
1:1:14:LEU:CD1	1:1:44:CYS:SG	2.78	0.67
1:1:124:TYR:CE1	1:1:142:PHE:CD2	2.83	0.67
4:4:43:MET:SD	4:4:45:PHE:CZ	2.85	0.67
6:6:48:PHE:CZ	6:6:50:ALA:HB3	2.28	0.67
7:7:39:ASP:HA	7:7:198:LEU:HD22	1.76	0.67
15:F:84:LEU:HD21	15:F:128:TYR:CE2	2.29	0.67
18:I:247:ILE:HD13	18:I:267:ILE:HD13	1.75	0.67
19:J:45:GLU:OE1	23:N:608:LEU:HD11	1.94	0.67
24:O:137:TYR:CB	24:O:149:LEU:HD11	2.23	0.67
24:O:166:ARG:HH21	24:O:169:ASN:CB	2.08	0.67
28:S:223:LEU:HD13	28:S:259:TYR:HE1	1.59	0.67
2:2:104:ASP:CG	2:2:106:THR:OG1	2.36	0.67
10:A:104:PHE:CE2	10:A:111:ASP:O	2.47	0.67
15:F:198:SER:HB3	15:F:206:LEU:CD2	2.23	0.67
20:K:200:GLN:HA	27:R:204:TRP:CZ2	2.29	0.67
21:L:379:ALA:HA	21:L:382:MET:HE3	1.76	0.67
24:O:269:LEU:CD2	24:O:270:ILE:HG13	2.24	0.67
24:O:362:GLN:O	24:O:366:MET:HG3	1.95	0.67
26:Q:429:LYS:CE	31:V:269:ARG:HH22	2.08	0.67
35:Z:126:TYR:O	35:Z:127:SER:OG	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:A:46:ARG:NE	10:A:152:PRO:HB2	2.09	0.67
15:F:117:GLN:NE2	15:F:121:GLN:HE21	1.92	0.67
24:O:306:ARG:HG3	24:O:351:SER:C	2.20	0.67
6:6:63:VAL:O	6:6:67:HIS:HD2	1.77	0.67
8:8:116:ASN:CB	9:9:76:GLZ:HA1	2.25	0.67
12:C:106:ILE:HG12	12:C:107:PRO:O	1.95	0.67
12:C:149:TYR:OH	13:D:59:ILE:CB	2.42	0.67
13:D:92:GLU:OE2	13:D:108:TYR:HE2	1.77	0.67
14:E:18:GLU:HB3	15:F:31:GLN:HE22	1.60	0.67
16:G:8:ASP:OD1	16:G:9:LEU:HG	1.95	0.67
20:K:350:ARG:HH21	26:Q:215:VAL:CG1	2.07	0.67
22:M:44:PHE:HE2	24:O:110:ASP:O	1.76	0.67
23:N:15:GLU:O	23:N:16:ASN:CB	2.43	0.67
23:N:19:SER:HB2	29:T:35:ILE:HG21	1.75	0.67
23:N:52:ASP:OD1	23:N:54:THR:HG23	1.95	0.67
24:O:41:LEU:HD11	24:O:47:LYS:HE2	1.76	0.67
27:R:181:TYR:CD2	27:R:183:ASP:HB2	2.30	0.67
27:R:207:ARG:NH1	27:R:211:LYS:NZ	2.43	0.67
28:S:191:HIS:CD2	28:S:206:GLN:HG3	2.30	0.67
35:Z:146:PHE:O	35:Z:210:TYR:CE2	2.48	0.67
35:Z:471:LEU:HD23	35:Z:471:LEU:C	2.19	0.67
8:8:116:ASN:C	9:9:76:GLZ:HA1	2.20	0.67
12:C:33:GLY:HA3	12:C:65:LYS:NZ	2.10	0.67
12:C:160:TRP:CZ2	12:C:163:ILE:HD13	2.30	0.67
14:E:17:PRO:HA	15:F:24:TYR:CE1	2.30	0.67
17:H:172:MET:CE	18:I:129:TYR:CB	2.70	0.67
21:L:193:LEU:HD21	21:L:220:LEU:HD21	1.76	0.67
23:N:298:TYR:OH	23:N:766:GLN:OE1	2.13	0.67
25:P:286:ASN:CA	25:P:293:LEU:HD11	2.25	0.67
29:T:199:PHE:O	29:T:200:LEU:CG	2.42	0.67
29:T:224:ARG:HG2	29:T:242:LYS:HG2	1.76	0.67
30:U:18:ALA:HB3	30:U:125:VAL:HG11	1.76	0.67
32:W:143:ASN:O	32:W:174:VAL:O	2.12	0.67
2:2:186:TYR:CE2	2:2:188:ARG:HB2	2.29	0.67
3:3:179:TYR:CE2	3:3:188:LYS:HG3	2.30	0.67
8:8:118:CYS:SG	9:9:76:GLZ:C	2.83	0.67
8:8:485:GLU:H	17:H:187:LEU:HD23	1.59	0.67
11:B:66:LEU:HD13	11:B:235:PHE:CG	2.30	0.67
19:J:220:GLN:HE22	20:K:293:GLN:HE22	1.39	0.67
22:M:200:PRO:HB2	22:M:319:ASP:OD2	1.95	0.67
24:O:185:PHE:CB	24:O:223:LEU:CB	2.66	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:P:221:TYR:HE2	25:P:244:ILE:CB	2.08	0.67
25:P:245:TYR:HD1	25:P:257:TRP:HE1	1.32	0.67
25:P:347:GLU:O	25:P:351:ARG:HG3	1.95	0.67
28:S:471:LEU:CB	30:U:288:PHE:CZ	2.78	0.67
29:T:197:TYR:O	29:T:198:ASP:CB	2.43	0.67
33:X:66:LEU:CD1	33:X:97:TYR:CB	2.73	0.67
35:Z:134:SER:N	35:Z:134:SER:C	2.53	0.67
35:Z:889:VAL:HG22	35:Z:891:PRO:HD2	1.77	0.67
1:1:-8:LYS:HE3	1:1:51:ASP:OD1	1.95	0.66
4:4:26:VAL:HG13	4:4:28:LYS:O	1.93	0.66
19:J:27:ILE:HG12	20:K:51:LEU:CG	2.25	0.66
22:M:357:ARG:HG2	22:M:391:LEU:HD11	1.77	0.66
23:N:508:THR:HG21	23:N:513:ILE:HB	1.77	0.66
24:O:42:SER:O	24:O:46:THR:HG21	1.89	0.66
27:R:125:GLU:OE1	27:R:127:GLU:N	2.27	0.66
27:R:137:LEU:HD11	27:R:141:TYR:CZ	2.29	0.66
35:Z:236:PHE:CE2	35:Z:245:VAL:HG22	2.30	0.66
10:A:207:ILE:CG2	10:A:211:ILE:HD11	2.25	0.66
20:K:124:SER:O	20:K:127:ASP:OD1	2.13	0.66
22:M:379:LEU:HD13	22:M:415:PHE:CD1	2.30	0.66
23:N:190:LEU:HD13	23:N:224:THR:HG23	1.77	0.66
24:O:62:TYR:CE2	24:O:82:LEU:CD2	2.58	0.66
25:P:241:LEU:CA	25:P:244:ILE:HG22	2.25	0.66
26:Q:138:SER:CB	26:Q:161:LEU:HD11	2.25	0.66
26:Q:138:SER:HB3	26:Q:161:LEU:HD11	1.76	0.66
28:S:315:LYS:HG2	28:S:345:TYR:OH	1.94	0.66
29:T:107:SER:HG	29:T:174:PHE:HZ	1.43	0.66
29:T:169:GLN:CD	29:T:174:PHE:CZ	2.73	0.66
31:V:51:GLY:HA2	31:V:71:MET:HG2	1.76	0.66
32:W:20:ASP:C	32:W:21:PHE:HD1	2.02	0.66
32:W:52:ILE:HD13	32:W:94:ALA:HB2	1.77	0.66
1:1:57:ASP:OD2	10:A:106:TYR:OH	1.95	0.66
17:H:410:LEU:HB2	17:H:447:VAL:HG11	1.77	0.66
20:K:244:HIS:HB2	21:L:256:ILE:HG12	1.76	0.66
24:O:366:MET:HE3	30:U:226:LEU:HD13	1.76	0.66
26:Q:269:LYS:HZ2	26:Q:281:ILE:CD1	2.09	0.66
27:R:238:PHE:HD2	27:R:244:THR:HG21	1.61	0.66
29:T:227:PRO:HD3	29:T:241:GLU:OE2	1.95	0.66
29:T:241:GLU:CA	29:T:246:GLU:HB2	2.22	0.66
29:T:242:LYS:HG3	29:T:242:LYS:O	1.95	0.66
33:X:46:TRP:CB	33:X:68:LEU:HD13	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:Z:491:LEU:CD1	35:Z:900:LEU:CD1	2.67	0.66
35:Z:867:PHE:CD2	35:Z:871:HIS:HA	2.31	0.66
1:1:19:ARG:HH11	1:1:29:ARG:CA	2.06	0.66
7:7:8:TYR:CD2	7:7:10:ASN:OD1	2.47	0.66
12:C:53:THR:HB	12:C:59:GLN:NE2	2.10	0.66
13:D:106:VAL:HG11	13:D:148:TYR:HE2	1.59	0.66
19:J:301:ASP:H	19:J:304:LEU:CD1	2.02	0.66
20:K:99:PHE:CZ	20:K:101:GLU:C	2.73	0.66
20:K:314:VAL:CG1	20:K:316:MET:HE2	2.24	0.66
23:N:514:THR:CG2	23:N:546:LEU:CD1	2.73	0.66
30:U:16:LEU:HD22	31:V:209:GLU:CD	2.19	0.66
35:Z:146:PHE:C	35:Z:210:TYR:HH	2.01	0.66
1:1:13:ILE:HD12	1:1:177:VAL:HG22	1.77	0.66
8:8:283:LYS:H	9:9:12:THR:CB	2.01	0.66
13:D:172:ARG:O	13:D:176:GLU:HG3	1.96	0.66
14:E:219:LEU:CD1	14:E:239:LEU:HD23	2.26	0.66
17:H:244:LYS:HE2	17:H:340:LEU:O	1.94	0.66
18:I:199:GLU:HG3	18:I:236:VAL:HG13	1.77	0.66
20:K:281:ARG:NH1	20:K:287:GLY:N	2.43	0.66
22:M:123:SER:O	22:M:125:GLN:HG3	1.96	0.66
23:N:458:ALA:HB2	23:N:492:THR:OG1	1.95	0.66
23:N:771:PHE:CD2	23:N:772:GLN:O	2.49	0.66
25:P:213:TYR:CE2	25:P:217:LYS:HE3	2.30	0.66
26:Q:269:LYS:NZ	26:Q:281:ILE:CD1	2.57	0.66
27:R:176:ARG:HB2	27:R:243:LEU:HD11	1.76	0.66
31:V:79:SER:HA	31:V:121:VAL:CG1	2.26	0.66
7:7:10:ASN:HD22	7:7:195:ASN:ND2	1.94	0.66
15:F:65:LYS:HD3	15:F:222:PHE:CD2	2.29	0.66
17:H:96:PRO:HA	17:H:193:PRO:CG	2.19	0.66
22:M:379:LEU:HD22	22:M:415:PHE:CE1	2.31	0.66
24:O:225:ASP:O	24:O:226:LYS:HG3	1.96	0.66
26:Q:151:TYR:CE2	26:Q:187:LYS:HB3	2.29	0.66
27:R:36:SER:C	27:R:43:ARG:NH2	2.53	0.66
30:U:18:ALA:CB	30:U:93:TYR:OH	2.41	0.66
33:X:66:LEU:CD1	33:X:99:PHE:CE1	2.79	0.66
35:Z:72:LYS:CE	35:Z:117:ASP:OD2	2.43	0.66
35:Z:192:GLY:O	35:Z:193:PHE:HB2	1.96	0.66
35:Z:312:TYR:CE1	35:Z:348:LEU:C	2.73	0.66
35:Z:427:GLN:HG2	35:Z:428:TRP:CD2	2.31	0.66
1:1:-5:GLU:H	2:2:116:HIS:CE1	2.14	0.66
5:5:181:THR:OG1	5:5:184:GLY:O	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:K:353:PHE:HD1	20:K:387:MET:SD	2.14	0.66
23:N:514:THR:CG2	23:N:546:LEU:HD12	2.25	0.66
24:O:106:PHE:O	24:O:107:GLN:CB	2.43	0.66
24:O:214:ALA:HB1	24:O:248:TYR:CZ	2.29	0.66
32:W:52:ILE:HG22	32:W:61:VAL:HG22	1.77	0.66
33:X:46:TRP:CZ2	33:X:132:SER:N	2.64	0.66
35:Z:562:TRP:CH2	35:Z:566:LEU:HD22	2.31	0.66
3:3:75:PRO:CB	3:3:111:PHE:CD2	2.79	0.66
7:7:85:PHE:CE2	7:7:120:ARG:NE	2.63	0.66
7:7:201:LYS:CB	7:7:204:LEU:HD11	2.26	0.66
8:8:326:LYS:HZ1	9:9:74:ARG:HE	1.40	0.66
11:B:180:ASN:O	11:B:181:ASP:HB2	1.95	0.66
15:F:50:LYS:HE3	15:F:212:SER:HB3	1.77	0.66
18:I:96:LEU:O	18:I:99:ILE:HG22	1.96	0.66
24:O:202:SER:O	24:O:203:THR:CG2	2.44	0.66
26:Q:331:THR:HG22	26:Q:335:PHE:CD2	2.30	0.66
27:R:208:ASN:ND2	27:R:238:PHE:CB	2.56	0.66
31:V:106:GLY:C	31:V:107:TRP:CD1	2.74	0.66
35:Z:357:ILE:HG12	35:Z:960:GLY:HA3	1.78	0.66
35:Z:610:GLY:C	35:Z:748:LEU:HB3	2.21	0.66
35:Z:756:MET:CE	35:Z:759:ARG:HE	2.08	0.66
5:5:55:TRP:NE1	6:6:89:TYR:OH	2.28	0.66
7:7:-3:VAL:HG12	7:7:49:ILE:HG12	1.77	0.66
16:G:60:PRO:HB2	16:G:61:GLN:OE1	1.96	0.66
17:H:249:TYR:HE2	17:H:374:LYS:HG2	1.61	0.66
18:I:135:PHE:CD2	18:I:159:VAL:HG22	2.31	0.66
18:I:362:LEU:HG	18:I:377:LEU:HD22	1.77	0.66
28:S:214:MET:CE	28:S:236:LEU:HD13	2.26	0.66
29:T:241:GLU:N	29:T:246:GLU:HB2	2.10	0.66
33:X:46:TRP:CZ2	33:X:131:ASN:C	2.73	0.66
1:1:1:THR:HG22	1:1:129:SER:N	2.09	0.66
17:H:174:VAL:HG12	17:H:183:ILE:HG21	1.76	0.66
20:K:68:ILE:CG1	23:N:608:LEU:HD21	2.23	0.66
20:K:140:HIS:HE1	20:K:142:HIS:HB2	1.60	0.66
21:L:270:ALA:HB1	21:L:276:CYS:SG	2.36	0.66
23:N:176:GLN:HE21	23:N:182:ASN:ND2	1.93	0.66
26:Q:195:LYS:HE3	26:Q:229:ASP:OD2	1.96	0.66
28:S:237:ILE:HG21	28:S:253:PHE:CE1	2.31	0.66
30:U:40:ASP:CB	30:U:47:ARG:NH2	2.59	0.66
35:Z:862:MET:SD	35:Z:910:PRO:HG3	2.36	0.66
1:1:102:TYR:OH	1:1:180:ALA:HB2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:B:189:ILE:HG21	11:B:246:ARG:HD3	1.77	0.65
22:M:379:LEU:HD13	22:M:415:PHE:CE1	2.31	0.65
23:N:17:GLN:O	23:N:20:VAL:HG22	1.96	0.65
24:O:223:LEU:CD1	24:O:277:ILE:CD1	2.71	0.65
24:O:300:VAL:CG1	24:O:301:PHE:CE2	2.79	0.65
25:P:296:GLN:O	25:P:300:VAL:HG23	1.96	0.65
26:Q:61:LEU:CB	26:Q:65:TYR:CE2	2.70	0.65
28:S:188:TYR:CZ	28:S:210:LEU:CD1	2.77	0.65
29:T:89:TYR:CE1	29:T:102:LYS:NZ	2.62	0.65
33:X:87:PHE:CE2	33:X:125:MET:SD	2.89	0.65
35:Z:357:ILE:HD11	35:Z:914:LEU:CD1	2.18	0.65
35:Z:453:LEU:HD11	35:Z:899:GLN:CG	2.26	0.65
7:7:201:LYS:HB2	7:7:204:LEU:HD11	1.77	0.65
8:8:116:ASN:CA	9:9:76:GLZ:HA1	2.26	0.65
8:8:327:SER:OG	17:H:164:SER:CB	2.41	0.65
14:E:165:TYR:C	14:E:167:TYR:CE1	2.74	0.65
17:H:167:ASP:HB3	17:H:186:PRO:CG	2.26	0.65
18:I:122:SER:HB3	18:I:126:PRO:O	1.96	0.65
19:J:27:ILE:HG12	20:K:51:LEU:CD2	2.26	0.65
19:J:37:LYS:HG3	20:K:58:TYR:CE1	2.32	0.65
24:O:50:ASP:HA	24:O:53:LYS:HZ1	1.60	0.65
24:O:269:LEU:HD22	24:O:270:ILE:HG13	1.78	0.65
30:U:275:VAL:HG13	31:V:251:TYR:OH	1.94	0.65
1:1:45:ARG:HH21	1:1:52:THR:C	2.03	0.65
5:5:114:TYR:CE1	5:5:129:VAL:HG21	2.31	0.65
11:B:4:ARG:HH11	13:D:3:GLY:HA3	1.60	0.65
16:G:61:GLN:HA	16:G:64:VAL:HG23	1.79	0.65
20:K:156:SER:HA	21:L:126:ARG:NH1	2.11	0.65
20:K:158:ILE:N	21:L:256:ILE:HG22	2.10	0.65
21:L:249:SER:O	21:L:252:VAL:N	2.29	0.65
22:M:163:PHE:CD1	22:M:261:LYS:HG2	2.31	0.65
23:N:202:PHE:CZ	23:N:206:ILE:HD11	2.32	0.65
23:N:300:ASN:HD22	23:N:920:VAL:HG11	1.59	0.65
23:N:405:LEU:CD1	23:N:426:ILE:HD13	2.26	0.65
23:N:406:TYR:HE1	23:N:448:LEU:CD1	1.92	0.65
24:O:76:LEU:HD22	24:O:121:ASP:CG	2.20	0.65
24:O:124:ASP:HB2	24:O:127:LEU:HD22	1.79	0.65
28:S:468:ALA:O	28:S:472:HIS:HB2	1.96	0.65
29:T:55:LEU:HG	29:T:59:LYS:CE	2.12	0.65
30:U:288:PHE:HA	30:U:291:LEU:HD12	1.78	0.65
32:W:87:MET:HB3	32:W:120:ASP:OD2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:H:410:LEU:HD11	17:H:444:LEU:CD2	2.26	0.65
18:I:176:SER:HB2	19:J:282:PHE:CE1	2.31	0.65
19:J:37:LYS:CE	20:K:58:TYR:OH	2.44	0.65
21:L:132:ARG:NH1	21:L:156:MET:HG2	2.11	0.65
23:N:329:HIS:ND1	23:N:355:TRP:CE3	2.65	0.65
23:N:399:PHE:CE1	23:N:441:VAL:CB	2.73	0.65
24:O:43:GLU:CD	24:O:44:SER:CB	2.70	0.65
24:O:347:LEU:HB3	24:O:349:THR:CG2	2.26	0.65
26:Q:31:LEU:CG	26:Q:50:ARG:NH2	2.55	0.65
27:R:94:PHE:HE2	27:R:96:GLN:CG	2.08	0.65
30:U:283:ARG:HH11	31:V:284:ALA:CA	2.10	0.65
35:Z:286:VAL:O	35:Z:287:ARG:CB	2.37	0.65
11:B:14:PRO:HA	12:C:24:TYR:CZ	2.32	0.65
14:E:157:HIS:HB2	14:E:170:LYS:HD3	1.77	0.65
16:G:98:PHE:HE2	16:G:105:PRO:O	1.78	0.65
16:G:166:LYS:NZ	16:G:206:ASN:HA	2.11	0.65
17:H:77:ALA:C	18:I:153:THR:HG22	2.20	0.65
22:M:217:GLY:HA3	22:M:343:LEU:HD23	1.78	0.65
23:N:127:ASP:C	23:N:128:ILE:HG13	2.22	0.65
24:O:11:LEU:CB	24:O:43:GLU:OE1	2.40	0.65
24:O:196:LEU:HD13	24:O:213:LEU:HD23	1.79	0.65
29:T:209:LEU:HB3	29:T:211:PHE:CZ	2.30	0.65
31:V:104:VAL:HG11	31:V:107:TRP:NE1	2.11	0.65
35:Z:453:LEU:HD11	35:Z:899:GLN:HG2	1.78	0.65
35:Z:970:TYR:OH	35:Z:992:GLU:C	2.39	0.65
5:5:8:PHE:HZ	5:5:13:ILE:HD11	1.55	0.65
6:6:115:SER:CB	6:6:128:ARG:HH11	2.08	0.65
11:B:4:ARG:CG	15:F:123:TYR:OH	2.43	0.65
13:D:37:LYS:HE2	13:D:145:PRO:HB2	1.77	0.65
15:F:165:SER:O	15:F:169:LYS:HG3	1.96	0.65
21:L:357:ARG:O	21:L:360:ILE:HG22	1.97	0.65
22:M:379:LEU:CD2	22:M:415:PHE:CD1	2.77	0.65
23:N:666:GLN:HA	23:N:873:ARG:HH21	1.59	0.65
24:O:48:PHE:CE1	24:O:80:LYS:HD3	2.32	0.65
24:O:119:SER:CB	24:O:166:ARG:HD3	2.26	0.65
26:Q:425:GLN:OE1	31:V:265:GLU:OE1	2.14	0.65
27:R:194:VAL:HG13	27:R:206:ARG:HH21	1.60	0.65
27:R:259:PHE:O	27:R:259:PHE:CD1	2.50	0.65
30:U:66:TRP:C	32:W:93:ILE:HD12	2.21	0.65
32:W:44:ASN:HB2	32:W:47:ASN:HD21	1.62	0.65
35:Z:493:LEU:HD11	35:Z:497:PHE:HD2	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:205:PHE:HZ	3:3:144:LEU:HD22	1.62	0.65
14:E:72:ARG:HG3	14:E:72:ARG:O	1.96	0.65
17:H:430:ALA:HA	17:H:435:ARG:NH2	2.11	0.65
20:K:352:ILE:CG2	20:K:383:ILE:HG22	2.27	0.65
21:L:77:ARG:HD3	21:L:80:ASN:HD22	1.61	0.65
22:M:161:SER:O	22:M:166:ARG:NH2	2.30	0.65
22:M:361:LEU:O	22:M:376:TRP:CZ2	2.50	0.65
23:N:50:TYR:O	23:N:58:ARG:HG3	1.97	0.65
23:N:329:HIS:CE1	23:N:355:TRP:HE3	2.05	0.65
23:N:338:PHE:CZ	23:N:749:LEU:HB3	2.32	0.65
27:R:183:ASP:OD2	27:R:186:TYR:N	2.27	0.65
35:Z:862:MET:CE	35:Z:910:PRO:HG3	2.26	0.65
35:Z:963:ALA:C	35:Z:964:GLU:CD	2.65	0.65
8:8:326:LYS:HZ1	9:9:74:ARG:HH21	1.37	0.65
12:C:106:ILE:CD1	12:C:111:LEU:HB2	2.25	0.65
15:F:13:PHE:CE2	16:G:129:ARG:HG2	2.31	0.65
18:I:75:PHE:CD2	18:I:76:VAL:CG2	2.74	0.65
20:K:349:ARG:HH11	20:K:377:SER:H	1.42	0.65
22:M:357:ARG:NH2	22:M:386:PHE:N	2.44	0.65
24:O:105:GLN:HG3	24:O:108:GLU:OE1	1.95	0.65
25:P:203:ILE:HG21	25:P:220:TYR:CD1	2.31	0.65
25:P:260:VAL:HG22	25:P:328:ALA:HB2	1.79	0.65
25:P:286:ASN:HA	25:P:293:LEU:HD11	1.79	0.65
1:1:98:ILE:HD11	1:1:127:ALA:HB3	1.79	0.65
2:2:104:ASP:OD2	2:2:106:THR:OG1	2.14	0.65
4:4:11:SER:HB2	4:4:182:ILE:HG23	1.78	0.65
10:A:57:LYS:NZ	10:A:69:VAL:CB	2.57	0.65
17:H:307:PHE:CE1	17:H:309:ASP:OD1	2.48	0.65
23:N:239:LEU:HD11	23:N:243:LYS:HE3	1.78	0.65
23:N:399:PHE:CD1	23:N:441:VAL:CG1	2.68	0.65
24:O:79:VAL:HG21	24:O:122:HIS:CG	2.31	0.65
28:S:321:GLN:HG3	28:S:326:ASP:O	1.96	0.65
35:Z:133:ASP:OD1	35:Z:134:SER:N	2.29	0.65
35:Z:433:LEU:CD1	35:Z:455:ILE:HG12	2.27	0.65
1:1:176:VAL:HG12	1:1:178:LEU:HD21	1.78	0.65
4:4:80:SER:C	4:4:124:LYS:NZ	2.55	0.65
14:E:107:ILE:HD13	14:E:112:LEU:CD2	2.27	0.65
16:G:174:GLU:HB2	16:G:201:LEU:CD2	2.26	0.65
19:J:111:GLN:NE2	19:J:125:VAL:HG13	2.11	0.65
20:K:303:MET:HB3	20:K:333:ARG:NH1	2.11	0.65
26:Q:162:LEU:CD1	26:Q:178:HIS:HE2	2.08	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:V:40:HIS:ND1	31:V:70:ALA:HB2	2.12	0.65
32:W:52:ILE:CD1	32:W:94:ALA:HB2	2.27	0.65
33:X:24:CYS:HB2	33:X:80:SER:HA	1.77	0.65
35:Z:737:ALA:C	35:Z:775:MET:HE2	2.22	0.65
1:1:119:VAL:CG1	16:G:103:LYS:HZ3	2.09	0.64
3:3:79:THR:HG23	3:3:115:PHE:CZ	2.32	0.64
8:8:443:SER:OG	9:9:72:ARG:O	2.13	0.64
10:A:48:LYS:HD2	10:A:195:ASN:CG	2.22	0.64
17:H:280:VAL:HG21	18:I:304:ARG:HD2	1.77	0.64
25:P:207:THR:CB	25:P:217:LYS:HZ3	2.11	0.64
30:U:5:HIS:ND1	30:U:6:GLU:O	2.29	0.64
32:W:21:PHE:HB2	32:W:25:ARG:HA	1.79	0.64
35:Z:427:GLN:HG2	35:Z:428:TRP:CE3	2.32	0.64
35:Z:889:VAL:CG2	35:Z:891:PRO:HD2	2.27	0.64
16:G:87:LEU:CD1	16:G:115:LEU:HD22	2.26	0.64
18:I:102:ASN:HD21	19:J:83:LYS:NZ	1.93	0.64
19:J:115:LEU:HD12	19:J:122:LEU:HD21	1.77	0.64
19:J:119:SER:O	19:J:120:TYR:CD2	2.50	0.64
23:N:483:LEU:HD13	23:N:735:MET:HE1	1.79	0.64
23:N:731:VAL:O	23:N:734:VAL:HG12	1.97	0.64
24:O:79:VAL:HB	24:O:122:HIS:N	2.12	0.64
25:P:101:MET:HE1	25:P:139:VAL:HG22	1.78	0.64
26:Q:112:ASP:O	26:Q:116:PHE:CD2	2.50	0.64
31:V:79:SER:HA	31:V:121:VAL:HG13	1.79	0.64
35:Z:188:ALA:O	35:Z:189:ALA:HB3	1.96	0.64
8:8:330:LEU:CD1	17:H:166:THR:OG1	2.45	0.64
12:C:172:ALA:O	12:C:176:LEU:HG	1.97	0.64
16:G:67:GLN:HE22	16:G:85:ARG:HG2	1.62	0.64
17:H:147:ILE:HD13	17:H:157:VAL:H	1.61	0.64
18:I:243:THR:HG22	18:I:245:LEU:HD21	1.77	0.64
21:L:325:MET:HE1	21:L:337:LEU:CD1	2.25	0.64
23:N:127:ASP:O	23:N:128:ILE:HG13	1.98	0.64
24:O:116:ASN:HD22	24:O:121:ASP:HB3	1.61	0.64
24:O:118:GLY:C	24:O:166:ARG:HD3	2.20	0.64
24:O:344:VAL:HG21	25:P:361:THR:CG2	2.28	0.64
25:P:422:LEU:HD22	30:U:229:LEU:HD12	1.80	0.64
28:S:223:LEU:HD13	28:S:259:TYR:CE1	2.33	0.64
28:S:230:LYS:HZ3	28:S:256:LYS:CE	2.10	0.64
28:S:286:TYR:CE1	28:S:323:LEU:CD1	2.80	0.64
33:X:85:ARG:HH21	33:X:115:SER:HA	1.61	0.64
35:Z:68:LEU:HD22	35:Z:115:LEU:HA	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:Z:446:GLU:CG	35:Z:484:LYS:NZ	2.61	0.64
2:2:87:LEU:HD23	2:2:94:ILE:HD11	1.78	0.64
7:7:145:PRO:HB3	7:7:148:ARG:HH21	1.63	0.64
10:A:153:SER:HB2	10:A:155:TYR:HE1	1.62	0.64
15:F:85:SER:O	15:F:89:ARG:HG3	1.96	0.64
16:G:200:TYR:OH	16:G:239:ILE:HA	1.97	0.64
18:I:400:GLY:CA	19:J:179:ILE:HG13	2.27	0.64
19:J:119:SER:C	19:J:120:TYR:CG	2.76	0.64
25:P:203:ILE:HG23	25:P:220:TYR:CE1	2.31	0.64
27:R:422:ARG:HH21	28:S:299:LYS:CB	2.11	0.64
29:T:197:TYR:OH	29:T:234:TYR:HA	1.97	0.64
30:U:167:GLU:O	30:U:171:VAL:HG23	1.98	0.64
32:W:46:GLU:HB3	32:W:106:GLN:NE2	2.13	0.64
1:1:176:VAL:HG12	1:1:178:LEU:CD2	2.28	0.64
4:4:117:GLN:NE2	4:4:127:LEU:HD12	2.12	0.64
12:C:208:TYR:CB	12:C:235:ILE:HG22	2.27	0.64
14:E:125:GLU:CD	15:F:123:TYR:CE1	2.74	0.64
16:G:7:TYR:HE1	16:G:13:VAL:HG23	1.57	0.64
16:G:220:LEU:HD23	16:G:225:GLY:HA2	1.79	0.64
17:H:248:LEU:HD23	17:H:375:VAL:HB	1.79	0.64
19:J:78:ILE:HD11	19:J:107:LEU:CB	2.28	0.64
22:M:361:LEU:HD22	22:M:376:TRP:CZ3	2.32	0.64
23:N:313:LEU:HD22	23:N:786:ARG:NH2	2.13	0.64
23:N:320:SER:HB3	23:N:686:ILE:HG22	1.79	0.64
24:O:155:LYS:O	24:O:159:LYS:HG3	1.97	0.64
25:P:218:LEU:HD21	25:P:256:LYS:NZ	2.12	0.64
27:R:207:ARG:NH1	27:R:211:LYS:HZ2	1.95	0.64
30:U:94:HIS:ND1	30:U:96:GLY:N	2.44	0.64
35:Z:207:ILE:O	35:Z:210:TYR:HB2	1.97	0.64
35:Z:809:MET:HB2	35:Z:893:PHE:CD2	2.32	0.64
1:1:119:VAL:CG2	16:G:103:LYS:NZ	2.47	0.64
4:4:66:TYR:CD1	4:4:74:LEU:HD21	2.26	0.64
23:N:707:ASN:HD21	23:N:786:ARG:HH11	1.46	0.64
24:O:250:TRP:CE2	24:O:270:ILE:CG2	2.72	0.64
25:P:422:LEU:HD23	30:U:229:LEU:HA	1.80	0.64
27:R:263:ARG:NH1	27:R:296:LEU:HG	2.09	0.64
31:V:231:GLU:O	31:V:235:GLU:HB3	1.98	0.64
35:Z:471:LEU:CG	35:Z:497:PHE:CZ	2.80	0.64
8:8:212:GLU:HG3	9:9:42:ARG:CZ	2.27	0.64
10:A:89:ASP:OD1	10:A:135:ARG:NH2	2.31	0.64
12:C:69:LEU:CD2	12:C:88:ILE:HG23	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:F:31:GLN:HA	22:M:430:VAL:HG12	1.78	0.64
23:N:190:LEU:HD11	23:N:228:VAL:CG2	2.28	0.64
23:N:666:GLN:CG	23:N:873:ARG:HH21	2.10	0.64
24:O:342:ASP:OD1	25:P:358:SER:CB	2.45	0.64
29:T:209:LEU:CD1	29:T:211:PHE:CZ	2.80	0.64
30:U:223:HIS:ND1	30:U:224:THR:CA	2.60	0.64
32:W:20:ASP:C	32:W:21:PHE:CD1	2.75	0.64
33:X:85:ARG:NH2	33:X:116:ALA:N	2.44	0.64
35:Z:955:VAL:HG22	35:Z:956:LEU:N	2.12	0.64
2:2:94:ILE:HG22	3:3:90:ARG:HH21	1.61	0.64
3:3:60:TYR:HD1	12:C:96:GLN:CB	2.10	0.64
10:A:126:GLN:NE2	10:A:130:GLN:NE2	2.45	0.64
12:C:53:THR:HB	12:C:59:GLN:CD	2.23	0.64
18:I:113:ILE:HG22	18:I:115:ASP:H	1.62	0.64
24:O:277:ILE:HG21	24:O:279:ILE:N	1.92	0.64
24:O:337:LEU:O	24:O:338:LYS:CB	2.45	0.64
27:R:74:ASN:HA	27:R:86:ASP:OD2	1.96	0.64
3:3:96:VAL:O	3:3:117:LEU:HD11	1.97	0.64
10:A:156:LYS:HB3	10:A:166:TYR:CE1	2.32	0.64
17:H:390:ARG:CA	17:H:404:TRP:CE2	2.75	0.64
25:P:207:THR:HB	25:P:217:LYS:HE2	1.80	0.64
29:T:197:TYR:HD2	29:T:235:PHE:CE1	2.05	0.64
30:U:141:GLU:O	30:U:142:GLN:CB	2.45	0.64
35:Z:865:ASP:O	35:Z:877:THR:HG21	1.98	0.64
1:1:6:VAL:HB	1:1:155:ILE:HD11	1.79	0.64
2:2:8:PHE:CE1	2:2:11:GLY:C	2.76	0.64
6:6:-6:PRO:HA	7:7:125:LEU:CD2	2.26	0.64
12:C:149:TYR:CZ	13:D:59:ILE:HD12	2.33	0.64
12:C:208:TYR:HA	12:C:235:ILE:CG2	2.26	0.64
18:I:253:ILE:HD11	18:I:286:ALA:HB3	1.80	0.64
18:I:400:GLY:HA3	19:J:179:ILE:HG12	1.76	0.64
18:I:400:GLY:CA	19:J:179:ILE:CD1	2.60	0.64
19:J:166:LEU:C	19:J:174:PHE:CZ	2.75	0.64
19:J:324:ARG:HH21	19:J:353:CYS:H	1.46	0.64
24:O:140:LYS:HG2	24:O:141:ASN:CG	2.22	0.64
24:O:233:LEU:HD22	24:O:238:ILE:CD1	2.19	0.64
25:P:303:PHE:C	25:P:348:HIS:HE2	2.02	0.64
25:P:412:LEU:HD13	31:V:245:VAL:HA	1.80	0.64
35:Z:581:VAL:HG21	35:Z:603:VAL:HG12	1.80	0.64
35:Z:737:ALA:CB	35:Z:775:MET:SD	2.85	0.64
35:Z:963:ALA:C	35:Z:964:GLU:OE1	2.41	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:95:ARG:HH11	7:7:102:LEU:HD13	1.63	0.63
17:H:257:THR:CG2	17:H:261:ARG:HE	2.11	0.63
23:N:641:LEU:CB	23:N:660:LEU:HD21	2.28	0.63
24:O:373:TRP:CH2	30:U:233:PHE:HB2	2.32	0.63
26:Q:174:LEU:CG	26:Q:178:HIS:CE1	2.81	0.63
27:R:335:ARG:HA	27:R:371:PHE:CZ	2.33	0.63
29:T:225:ASN:HB2	29:T:241:GLU:CB	2.26	0.63
32:W:59:PRO:CB	32:W:93:ILE:HG21	2.28	0.63
8:8:326:LYS:NZ	9:9:74:ARG:HH21	1.94	0.63
14:E:98:THR:HG23	14:E:102:TYR:HE1	1.63	0.63
14:E:241:LYS:CA	14:E:244:LYS:NZ	2.58	0.63
19:J:124:LYS:HZ2	20:K:103:ILE:CG2	2.12	0.63
24:O:358:ILE:CG2	24:O:360:GLY:H	1.99	0.63
32:W:21:PHE:HB3	32:W:28:ALA:HB3	1.81	0.63
35:Z:352:LYS:C	35:Z:353:VAL:HG23	2.23	0.63
1:1:80:SER:HB3	16:G:103:LYS:CD	2.29	0.63
17:H:430:ALA:HA	17:H:435:ARG:HE	1.64	0.63
23:N:406:TYR:CD1	23:N:448:LEU:HD12	2.34	0.63
23:N:479:GLU:OE1	23:N:512:ASN:OD1	2.15	0.63
24:O:79:VAL:HG11	24:O:123:GLY:N	2.12	0.63
28:S:399:TYR:HD2	28:S:401:LYS:O	1.80	0.63
30:U:18:ALA:HB1	30:U:125:VAL:HG21	1.81	0.63
35:Z:189:ALA:CB	35:Z:193:PHE:CG	2.81	0.63
35:Z:391:ASN:OD1	35:Z:394:TYR:HD2	1.80	0.63
10:A:17:THR:CG2	10:A:129:THR:O	2.46	0.63
10:A:57:LYS:CE	10:A:69:VAL:CB	2.76	0.63
10:A:81:MET:SD	10:A:143:PHE:CZ	2.92	0.63
11:B:27:ALA:HB1	20:K:426:PHE:CE1	2.32	0.63
14:E:46:VAL:HB	14:E:222:ILE:HD12	1.79	0.63
16:G:108:ILE:CG2	16:G:148:TYR:CD1	2.81	0.63
17:H:146:VAL:H	17:H:157:VAL:CG2	2.10	0.63
17:H:187:LEU:HD22	18:I:115:ASP:CG	2.24	0.63
20:K:281:ARG:NH2	20:K:286:THR:C	2.56	0.63
20:K:365:GLU:HG2	20:K:404:GLN:H	1.62	0.63
21:L:252:VAL:HG11	22:M:299:ARG:NH2	2.13	0.63
23:N:190:LEU:HD13	23:N:224:THR:CG2	2.27	0.63
23:N:214:LEU:HD12	23:N:217:MET:HE2	1.81	0.63
24:O:185:PHE:CD1	24:O:279:ILE:HG13	2.34	0.63
26:Q:243:PHE:CE1	26:Q:287:THR:CG2	2.80	0.63
29:T:1:MET:HB2	29:T:2:PRO:CD	2.23	0.63
29:T:190:ALA:CB	29:T:224:ARG:NE	2.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:T:197:TYR:CZ	29:T:199:PHE:C	2.77	0.63
35:Z:877:THR:HG23	35:Z:907:GLY:HA2	1.80	0.63
1:1:119:VAL:HG11	16:G:103:LYS:HZ3	1.64	0.63
11:B:82:TYR:HE1	11:B:134:LEU:HD22	1.64	0.63
12:C:97:ASN:O	12:C:101:THR:HG23	1.97	0.63
18:I:340:ARG:NH1	18:I:343:ARG:CB	2.59	0.63
33:X:89:LEU:HG	33:X:91:PHE:CZ	2.34	0.63
8:8:330:LEU:H	17:H:163:VAL:HG23	1.63	0.63
17:H:318:ARG:HH12	17:H:364:ALA:CB	2.12	0.63
23:N:277:LEU:CD1	23:N:287:LEU:HD23	2.28	0.63
24:O:188:PHE:CZ	24:O:216:ASP:HB3	2.30	0.63
25:P:147:LYS:HZ2	25:P:159:ILE:HG13	1.64	0.63
25:P:263:HIS:CE1	25:P:327:LEU:O	2.51	0.63
26:Q:90:LYS:CD	26:Q:129:LYS:HZ1	2.10	0.63
29:T:147:LYS:O	29:T:151:TRP:CD1	2.52	0.63
35:Z:244:ARG:O	35:Z:248:TYR:CD1	2.46	0.63
35:Z:551:LEU:HD13	35:Z:591:ILE:HG22	1.56	0.63
1:1:112:THR:CG2	7:7:27:ARG:HH21	2.12	0.63
20:K:210:LEU:CD1	20:K:212:TYR:OH	2.47	0.63
24:O:341:ILE:HD12	24:O:348:VAL:HG13	1.80	0.63
26:Q:51:ARG:NH2	26:Q:92:LYS:CD	2.57	0.63
29:T:250:MET:O	29:T:251:HIS:HB2	1.98	0.63
30:U:16:LEU:CD2	31:V:209:GLU:CG	2.77	0.63
30:U:32:ARG:HH21	30:U:56:PHE:HZ	1.45	0.63
30:U:85:ALA:O	30:U:86:LYS:HB2	1.98	0.63
5:5:32:LYS:HD2	5:5:45:MET:CE	2.26	0.63
13:D:197:ARG:NH2	13:D:239:GLU:OE1	2.32	0.63
18:I:262:ARG:CB	19:J:223:ILE:HD12	2.29	0.63
20:K:240:SER:O	21:L:303:ARG:HG3	1.99	0.63
20:K:244:HIS:CE1	20:K:295:ILE:HD11	2.34	0.63
20:K:349:ARG:HH12	20:K:377:SER:H	1.44	0.63
21:L:357:ARG:HE	21:L:380:VAL:HG13	1.63	0.63
26:Q:46:VAL:C	26:Q:50:ARG:HB2	2.22	0.63
32:W:25:ARG:NE	32:W:144:PHE:CD2	2.66	0.63
33:X:8:ILE:CG2	33:X:124:LYS:CD	2.77	0.63
35:Z:55:ARG:NE	35:Z:63:LEU:HD13	2.14	0.63
35:Z:958:ASN:N	35:Z:961:GLU:OE1	2.29	0.63
1:1:80:SER:HB3	16:G:103:LYS:HD3	1.81	0.63
3:3:-2:ASN:C	3:3:19:ARG:HH12	2.07	0.63
8:8:209:ASP:CG	9:9:73:LEU:H	2.06	0.63
14:E:88:MET:HE1	14:E:142:LEU:HD12	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:F:117:GLN:HE21	15:F:121:GLN:HE21	1.47	0.63
17:H:155:PHE:CE1	22:M:76:PRO:CA	2.82	0.63
18:I:243:THR:HG21	18:I:245:LEU:HD21	1.80	0.63
19:J:154:THR:HA	19:J:157:ILE:HD12	1.81	0.63
23:N:325:PHE:N	31:V:182:LYS:HG2	2.14	0.63
24:O:223:LEU:HA	24:O:279:ILE:HG21	1.79	0.63
24:O:322:ASP:O	24:O:325:GLU:HB2	1.98	0.63
25:P:207:THR:HB	25:P:217:LYS:CE	2.28	0.63
26:Q:54:GLN:HE22	26:Q:81:SER:HB2	1.62	0.63
26:Q:299:MET:HE1	26:Q:335:PHE:CE2	2.34	0.63
26:Q:326:MET:HE2	26:Q:332:ARG:HD2	1.80	0.63
27:R:94:PHE:HZ	27:R:99:TYR:CE2	2.17	0.63
32:W:21:PHE:CE2	32:W:25:ARG:HG3	2.34	0.63
35:Z:407:VAL:HG12	35:Z:415:MET:HG3	1.80	0.63
1:1:45:ARG:HE	1:1:52:THR:HB	1.63	0.62
7:7:69:ASP:O	7:7:70:ASN:HB2	1.99	0.62
13:D:104:VAL:HG11	13:D:109:LEU:HD11	1.81	0.62
14:E:154:GLN:OE1	14:E:166:ARG:HD2	1.99	0.62
17:H:155:PHE:CE1	22:M:77:TYR:N	2.60	0.62
21:L:192:GLU:HB3	21:L:345:ARG:HH21	1.62	0.62
23:N:596:LEU:CD2	23:N:717:LEU:HD22	2.29	0.62
23:N:768:ILE:HG21	23:N:871:MET:SD	2.39	0.62
24:O:332:ILE:HD11	24:O:341:ILE:HG21	1.80	0.62
26:Q:264:TYR:OH	26:Q:330:LEU:HD12	1.98	0.62
31:V:182:LYS:HE2	31:V:185:ILE:HG21	1.81	0.62
33:X:46:TRP:O	33:X:68:LEU:HB2	2.00	0.62
4:4:81:SER:CA	4:4:124:LYS:HZ3	2.11	0.62
17:H:97:LEU:HD13	17:H:174:VAL:C	2.23	0.62
24:O:80:LYS:CE	24:O:81:TYR:HE2	2.10	0.62
25:P:181:LEU:HG	25:P:223:LEU:HD11	1.81	0.62
30:U:19:LEU:HD11	31:V:208:LYS:CB	2.29	0.62
32:W:5:ALA:CB	32:W:103:ASN:CG	2.60	0.62
3:3:1:GLY:HA2	3:3:17:ASP:OD2	1.99	0.62
3:3:1:GLY:HA3	3:3:33:LYS:NZ	2.15	0.62
5:5:33:ARG:HD3	5:5:45:MET:O	1.99	0.62
8:8:320:LYS:HE3	17:H:164:SER:C	2.24	0.62
17:H:49:LEU:C	17:H:49:LEU:HD13	2.25	0.62
22:M:189:GLN:O	22:M:193:LEU:HG	1.98	0.62
22:M:192:GLU:OE1	22:M:347:ILE:HG23	2.00	0.62
23:N:366:THR:HG23	23:N:747:HIS:CE1	2.34	0.62
23:N:596:LEU:CD1	23:N:717:LEU:CD2	2.77	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O:133:ILE:HG12	24:O:137:TYR:CD2	2.34	0.62
25:P:221:TYR:CE2	25:P:244:ILE:CB	2.76	0.62
26:Q:97:LEU:HD11	26:Q:121:SER:HB3	1.81	0.62
27:R:54:ILE:HD12	27:R:54:ILE:C	2.24	0.62
27:R:353:MET:O	27:R:357:PHE:HB2	1.99	0.62
30:U:90:ILE:C	30:U:90:ILE:HD12	2.24	0.62
33:X:41:GLU:HG3	33:X:45:PHE:CA	2.28	0.62
1:1:-7:LYS:HD3	2:2:92:GLY:O	2.00	0.62
5:5:73:ARG:HH12	5:5:106:ARG:CD	2.12	0.62
12:C:18:ARG:NH1	12:C:23:GLU:CD	2.57	0.62
14:E:130:GLU:CD	14:E:132:ARG:HE	2.08	0.62
17:H:390:ARG:HG3	17:H:404:TRP:NE1	2.14	0.62
18:I:252:LEU:H	18:I:253:ILE:N	1.96	0.62
19:J:219:VAL:HG11	20:K:284:ALA:CB	2.25	0.62
26:Q:9:GLU:OE2	26:Q:12:ARG:NH2	2.32	0.62
27:R:335:ARG:HA	27:R:371:PHE:HZ	1.64	0.62
31:V:37:MET:HE1	31:V:139:VAL:CG1	2.29	0.62
32:W:16:SER:HA	32:W:25:ARG:HH11	1.63	0.62
32:W:87:MET:H	32:W:118:ILE:HD11	1.62	0.62
33:X:8:ILE:HG21	33:X:124:LYS:CD	2.28	0.62
33:X:8:ILE:HG22	33:X:124:LYS:HD2	1.78	0.62
35:Z:449:ALA:HB1	35:Z:899:GLN:HE22	1.65	0.62
35:Z:914:LEU:HB3	35:Z:980:VAL:HG22	1.81	0.62
2:2:196:ARG:NE	2:2:199:LYS:HE3	2.13	0.62
7:7:62:LEU:HD11	7:7:87:TYR:CD2	2.35	0.62
10:A:153:SER:HB2	10:A:155:TYR:CE1	2.34	0.62
18:I:135:PHE:HD2	18:I:159:VAL:HG22	1.63	0.62
18:I:252:LEU:C	18:I:253:ILE:CA	2.72	0.62
23:N:322:ASP:HB2	23:N:689:LYS:HZ1	1.63	0.62
25:P:119:ILE:HD12	25:P:143:LEU:HD22	1.80	0.62
25:P:132:VAL:O	25:P:133:GLU:HB2	1.99	0.62
25:P:308:LEU:CD2	25:P:369:LEU:HD22	2.29	0.62
26:Q:278:VAL:O	26:Q:282:LEU:HG	2.00	0.62
27:R:40:ILE:CG2	27:R:89:ASN:HD22	2.13	0.62
27:R:421:VAL:O	27:R:422:ARG:HB2	1.99	0.62
35:Z:161:ILE:CD1	35:Z:207:ILE:HD11	2.29	0.62
35:Z:211:PHE:CD2	35:Z:220:ALA:HB2	2.35	0.62
3:3:59:ARG:HH22	12:C:99:LEU:HD11	1.52	0.62
8:8:133:LEU:CD1	8:8:221[B]:MSE:HE2	2.28	0.62
13:D:96:HIS:HD2	13:D:100:LEU:HB2	1.63	0.62
15:F:123:TYR:CD1	15:F:123:TYR:C	2.77	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:H:261:ARG:HH22	17:H:273:ARG:HH21	1.46	0.62
24:O:222:LEU:HD22	24:O:270:ILE:HD11	1.81	0.62
27:R:59:MET:HE2	27:R:143:GLN:O	1.99	0.62
27:R:154:LEU:HD21	27:R:173:THR:HG21	1.82	0.62
27:R:258:LEU:HD12	27:R:266:LEU:CD1	2.30	0.62
29:T:225:ASN:ND2	29:T:241:GLU:HA	2.13	0.62
30:U:98:LYS:HZ2	30:U:124:ASP:HB2	1.63	0.62
35:Z:889:VAL:CG1	35:Z:894:MET:CE	2.74	0.62
11:B:119:GLN:HG3	11:B:123:GLN:NE2	2.14	0.62
13:D:81:ASP:HB3	13:D:129:PHE:HD1	1.64	0.62
16:G:146:HIS:CB	16:G:148:TYR:CE1	2.50	0.62
17:H:97:LEU:HB2	17:H:173:ARG:HG2	1.82	0.62
17:H:390:ARG:HG3	17:H:404:TRP:HE1	1.65	0.62
23:N:52:ASP:O	23:N:53:ASP:HB2	1.98	0.62
24:O:119:SER:CA	24:O:166:ARG:HD3	2.30	0.62
25:P:308:LEU:HD22	25:P:369:LEU:HD22	1.82	0.62
26:Q:90:LYS:O	26:Q:94:VAL:HG23	2.00	0.62
26:Q:222:SER:O	26:Q:226:HIS:HD2	1.79	0.62
26:Q:382:LEU:HB3	27:R:263:ARG:HH22	1.64	0.62
27:R:101:GLU:OE2	27:R:105:LYS:NZ	2.28	0.62
32:W:143:ASN:OD1	32:W:173:THR:HG23	1.99	0.62
35:Z:767:TYR:HE2	35:Z:772:ILE:CG1	2.11	0.62
19:J:193:THR:HG21	19:J:316:PHE:CD1	2.33	0.62
20:K:128:ARG:HD3	31:V:276:PRO:HD3	1.82	0.62
20:K:169:VAL:N	21:L:315:PHE:HE1	1.94	0.62
23:N:277:LEU:HB3	23:N:287:LEU:HD21	1.76	0.62
24:O:9:THR:HG23	24:O:27:GLU:OE2	2.00	0.62
24:O:277:ILE:HG22	24:O:279:ILE:N	1.94	0.62
26:Q:279:LYS:HA	26:Q:282:LEU:HD12	1.81	0.62
28:S:323:LEU:HD23	28:S:383:LEU:HD21	1.82	0.62
33:X:85:ARG:HH21	33:X:115:SER:CB	2.11	0.62
35:Z:81:SER:C	35:Z:82:MET:HG3	2.19	0.62
35:Z:258:PRO:HB2	35:Z:259:PRO:HD3	1.82	0.62
35:Z:312:TYR:CZ	35:Z:348:LEU:O	2.53	0.62
1:1:4:MET:HE3	1:1:159:LEU:CD2	2.30	0.62
1:1:92:ASN:OD1	1:1:93:LEU:HG	2.00	0.62
5:5:177:LEU:HD12	5:5:191:HIS:NE2	2.15	0.62
7:7:83:TYR:CZ	15:F:101:ARG:HG2	2.35	0.62
14:E:153:TYR:HE1	14:E:222:ILE:HG22	1.65	0.62
14:E:180:GLN:HA	14:E:183:LEU:HD12	1.80	0.62
14:E:201:LEU:HD11	14:E:239:LEU:CD2	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:H:410:LEU:CB	17:H:447:VAL:HG11	2.30	0.62
19:J:78:ILE:HD11	19:J:107:LEU:HB2	1.81	0.62
19:J:111:GLN:CD	19:J:125:VAL:HG13	2.24	0.62
22:M:197:ILE:HG13	22:M:198:VAL:N	2.14	0.62
24:O:124:ASP:CB	24:O:127:LEU:HD22	2.30	0.62
25:P:241:LEU:HA	25:P:244:ILE:CG2	2.30	0.62
28:S:257:LEU:O	28:S:259:TYR:HD2	1.83	0.62
29:T:229:VAL:CG2	29:T:234:TYR:CE1	2.76	0.62
33:X:10:PHE:HE2	33:X:103:GLU:OE2	1.78	0.62
35:Z:493:LEU:CD1	35:Z:497:PHE:CE2	2.83	0.62
1:1:19:ARG:HH12	1:1:29:ARG:CB	2.08	0.62
1:1:103:ASP:HB2	1:1:106:ASN:OD1	1.98	0.62
11:B:27:ALA:HA	20:K:426:PHE:HE1	1.64	0.62
21:L:357:ARG:HB3	21:L:361:PHE:HE2	1.64	0.62
21:L:372:GLY:O	21:L:374:PHE:CE1	2.52	0.62
35:Z:260:GLU:CG	35:Z:611:THR:HG21	2.29	0.62
35:Z:431:ASP:OD2	35:Z:458:SER:HB3	1.99	0.62
5:5:8:PHE:CE1	5:5:13:ILE:CG1	2.79	0.61
17:H:146:VAL:HG11	22:M:75:LEU:HB3	1.81	0.61
19:J:250:ILE:HA	19:J:299:ILE:CD1	2.29	0.61
24:O:26:PHE:CA	24:O:61:LEU:HD21	2.29	0.61
28:S:185:PHE:CE1	28:S:239:ARG:HD2	2.35	0.61
28:S:188:TYR:CE1	28:S:210:LEU:HD13	2.35	0.61
28:S:191:HIS:NE2	28:S:206:GLN:CG	2.61	0.61
29:T:236:ASN:ND2	29:T:240:LYS:HE3	2.15	0.61
33:X:95:GLU:HB3	33:X:97:TYR:HE1	1.63	0.61
35:Z:831:LEU:HA	35:Z:834:LEU:HD12	1.81	0.61
1:1:19:ARG:HH11	1:1:29:ARG:CG	2.10	0.61
10:A:156:LYS:HE3	10:A:169:THR:HG21	1.81	0.61
11:B:140:ASP:OD1	11:B:143:ASN:HB2	2.00	0.61
13:D:92:GLU:OE2	13:D:108:TYR:CE2	2.53	0.61
18:I:176:SER:O	19:J:282:PHE:CE1	2.54	0.61
22:M:225:GLY:O	22:M:226:THR:CG2	2.48	0.61
23:N:596:LEU:HD13	23:N:717:LEU:HD22	1.81	0.61
27:R:79:LEU:HD13	27:R:93:LYS:CE	2.28	0.61
29:T:193:THR:HG21	29:T:226:TRP:HH2	1.20	0.61
32:W:21:PHE:HZ	32:W:144:PHE:CD1	2.17	0.61
32:W:158:ILE:HG13	32:W:171:LEU:HB2	1.82	0.61
35:Z:550:PHE:CD1	35:Z:562:TRP:HZ3	2.18	0.61
3:3:61:LYS:NZ	3:3:85:SER:CB	2.63	0.61
8:8:329:ILE:CA	17:H:163:VAL:HG22	2.02	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:D:34:VAL:CG2	13:D:199:LEU:HD21	2.30	0.61
19:J:219:VAL:C	20:K:281:ARG:CD	2.66	0.61
24:O:373:TRP:CZ3	30:U:233:PHE:CD2	2.88	0.61
26:Q:46:VAL:HB	26:Q:48:ASP:OD1	2.00	0.61
26:Q:326:MET:HE3	26:Q:332:ARG:HG3	1.81	0.61
26:Q:412:ALA:HB2	27:R:400:TYR:HE1	1.65	0.61
27:R:199:GLU:HB3	27:R:206:ARG:CD	2.30	0.61
27:R:243:LEU:O	27:R:244:THR:HB	2.00	0.61
29:T:170:ASN:HA	29:T:174:PHE:HB2	1.83	0.61
35:Z:361:HIS:CE1	35:Z:861:THR:HB	2.35	0.61
5:5:207:PHE:O	5:5:208:ASN:OD1	2.17	0.61
10:A:135:ARG:NH1	10:A:137:LEU:HD23	2.15	0.61
10:A:207:ILE:HG22	10:A:211:ILE:CD1	2.30	0.61
17:H:247:LEU:HD22	17:H:371:ILE:HD13	1.81	0.61
19:J:115:LEU:HD12	19:J:122:LEU:HD23	1.82	0.61
23:N:12:LEU:HD13	29:T:40:LEU:HD13	1.83	0.61
24:O:140:LYS:HG2	24:O:141:ASN:OD1	2.00	0.61
27:R:335:ARG:HG3	27:R:371:PHE:CE1	2.35	0.61
33:X:41:GLU:CD	33:X:45:PHE:HB2	2.25	0.61
33:X:85:ARG:HH12	33:X:106:SER:HB3	1.64	0.61
35:Z:68:LEU:CD2	35:Z:115:LEU:HA	2.30	0.61
35:Z:298:PHE:O	35:Z:307:HIS:NE2	2.33	0.61
35:Z:857:LEU:HD23	35:Z:857:LEU:C	2.25	0.61
35:Z:970:TYR:CE1	35:Z:993:GLU:N	2.69	0.61
1:1:143:ARG:H	1:1:146:MET:HE3	1.64	0.61
8:8:326:LYS:CE	9:9:74:ARG:HE	2.12	0.61
17:H:248:LEU:CD2	17:H:375:VAL:HB	2.31	0.61
19:J:45:GLU:OE1	23:N:608:LEU:CD1	2.49	0.61
19:J:45:GLU:OE1	23:N:608:LEU:CG	2.49	0.61
20:K:94:LEU:HB2	21:L:128:ILE:HB	1.83	0.61
20:K:134:SER:HB2	20:K:255:ARG:NH2	2.11	0.61
23:N:21:LYS:O	23:N:25:LEU:HG	2.01	0.61
25:P:360:ILE:HG12	25:P:402:PHE:CZ	2.35	0.61
26:Q:291:TYR:OH	26:Q:293:SER:CB	2.49	0.61
29:T:193:THR:O	29:T:197:TYR:HB2	2.00	0.61
35:Z:805:LEU:HD22	35:Z:893:PHE:HE1	1.65	0.61
11:B:178:ARG:NH1	11:B:194:LEU:HB3	2.10	0.61
13:D:153:SER:OG	13:D:155:ILE:HG12	2.01	0.61
14:E:72:ARG:O	14:E:73:HIS:CG	2.53	0.61
19:J:224:GLY:O	19:J:227:SER:HB2	2.01	0.61
20:K:90:GLN:HE22	20:K:143:SER:HB2	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:N:328:PHE:HZ	23:N:696:LYS:HD2	1.65	0.61
24:O:344:VAL:CG2	25:P:361:THR:HG22	2.30	0.61
27:R:270:VAL:O	27:R:270:VAL:HG12	2.01	0.61
30:U:85:ALA:O	30:U:86:LYS:CB	2.48	0.61
32:W:25:ARG:HD2	32:W:144:PHE:HE2	1.56	0.61
6:6:115:SER:HB3	6:6:128:ARG:HH11	1.66	0.61
8:8:328:LYS:O	17:H:163:VAL:HG22	2.00	0.61
20:K:194:GLN:HG2	20:K:197:LEU:HG	1.83	0.61
23:N:325:PHE:CA	31:V:182:LYS:CG	2.74	0.61
23:N:452:LEU:HD21	23:N:748:PHE:CE1	2.33	0.61
23:N:666:GLN:HG3	23:N:873:ARG:NE	2.14	0.61
31:V:50:MET:HB2	31:V:78:VAL:HG13	1.83	0.61
10:A:126:GLN:HE22	10:A:130:GLN:CD	2.08	0.61
14:E:15:PHE:HZ	15:F:126:ARG:HD2	1.65	0.61
17:H:312:ASP:OD1	17:H:360:THR:HG21	2.01	0.61
21:L:357:ARG:O	21:L:361:PHE:HD2	1.83	0.61
22:M:361:LEU:CD1	22:M:376:TRP:CE3	2.80	0.61
23:N:214:LEU:HD12	23:N:217:MET:HE3	1.81	0.61
24:O:58:ARG:HD2	24:O:58:ARG:C	2.26	0.61
25:P:181:LEU:HA	25:P:223:LEU:CD1	2.24	0.61
26:Q:154:SER:O	26:Q:158:ILE:HG13	2.01	0.61
27:R:33:LEU:HB2	27:R:46:ALA:HB1	1.83	0.61
27:R:64:LYS:O	27:R:68:GLU:HG3	2.00	0.61
27:R:263:ARG:NH1	27:R:296:LEU:C	2.58	0.61
29:T:149:ASP:O	29:T:153:MET:HG2	2.00	0.61
30:U:5:HIS:CG	30:U:6:GLU:N	2.62	0.61
8:8:318:PHE:CA	9:9:71:LEU:HD22	2.20	0.61
15:F:46:LEU:HD21	15:F:73:SER:HB3	1.82	0.61
18:I:126:PRO:HB2	18:I:128:TYR:CE2	2.36	0.61
19:J:45:GLU:OE1	23:N:608:LEU:HG	2.00	0.61
20:K:67:TYR:CE2	23:N:572:LEU:O	2.54	0.61
20:K:246:TYR:HB3	21:L:256:ILE:HD11	1.83	0.61
20:K:303:MET:HB3	20:K:333:ARG:HH12	1.64	0.61
24:O:10:ILE:O	24:O:14:LEU:HG	2.01	0.61
25:P:181:LEU:CG	25:P:223:LEU:HD11	2.31	0.61
25:P:412:LEU:HB3	31:V:245:VAL:HG22	1.83	0.61
26:Q:135:HIS:CB	26:Q:161:LEU:CD2	2.77	0.61
27:R:194:VAL:O	27:R:199:GLU:OE1	2.19	0.61
27:R:396:LYS:CG	27:R:400:TYR:CE2	2.84	0.61
29:T:190:ALA:HA	29:T:224:ARG:NH1	2.15	0.61
30:U:235:LEU:O	30:U:263:LYS:HD3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:X:46:TRP:NE1	33:X:132:SER:HA	2.15	0.61
33:X:48:PHE:CD1	33:X:48:PHE:C	2.78	0.61
33:X:75:TRP:CZ3	33:X:125:MET:CB	2.84	0.61
33:X:75:TRP:CZ3	33:X:125:MET:HB2	2.36	0.61
1:1:75:THR:HG22	1:1:111:TYR:CG	2.29	0.61
5:5:114:TYR:HE1	5:5:129:VAL:HG11	1.65	0.61
6:6:68:PHE:CZ	15:F:66:CYS:O	2.54	0.61
10:A:117:LEU:HD23	10:A:143:PHE:CD2	2.36	0.61
17:H:412:PRO:O	17:H:413:ASN:CG	2.44	0.61
18:I:408:ARG:NH2	18:I:415:ASP:OD2	2.33	0.61
21:L:132:ARG:HD2	21:L:133:ASN:N	2.16	0.61
23:N:420:THR:O	23:N:424:LYS:HG3	2.01	0.61
24:O:196:LEU:CB	24:O:213:LEU:HD21	2.31	0.61
28:S:188:TYR:CD2	28:S:210:LEU:HD13	2.36	0.61
30:U:35:GLY:HA3	30:U:93:TYR:CB	2.29	0.61
31:V:78:VAL:C	31:V:121:VAL:HG11	2.26	0.61
35:Z:188:ALA:O	35:Z:189:ALA:CB	2.49	0.61
35:Z:551:LEU:HD13	35:Z:591:ILE:HG21	1.80	0.61
35:Z:551:LEU:CA	35:Z:593:HIS:NE2	2.59	0.61
35:Z:809:MET:HB2	35:Z:893:PHE:HD2	1.66	0.61
1:1:-6:GLY:HA3	2:2:116:HIS:CG	2.34	0.60
1:1:98:ILE:HD11	1:1:127:ALA:CB	2.31	0.60
5:5:40:PHE:CE2	5:5:41:LEU:HG	2.36	0.60
8:8:329:ILE:HG12	17:H:163:VAL:HG11	1.82	0.60
12:C:160:TRP:CZ2	12:C:163:ILE:CD1	2.84	0.60
16:G:34:THR:OG1	16:G:65:LYS:NZ	2.33	0.60
20:K:273:GLU:OE1	21:L:306:MET:HB2	2.01	0.60
20:K:347:ARG:HG3	26:Q:215:VAL:HG11	1.83	0.60
23:N:21:LYS:HG3	23:N:55:PHE:HD2	1.54	0.60
27:R:305:PHE:CA	27:R:334:ARG:HH12	2.06	0.60
28:S:385:SER:OG	29:T:153:MET:HE3	2.01	0.60
7:7:8:TYR:CE1	7:7:11:GLY:C	2.79	0.60
13:D:4:TYR:O	13:D:4:TYR:CD1	2.54	0.60
22:M:170:MET:HB3	22:M:244:LEU:CD1	2.24	0.60
22:M:227:GLY:O	22:M:231:LEU:HG	2.00	0.60
23:N:475:ALA:HB1	23:N:510:HIS:NE2	2.16	0.60
25:P:203:ILE:CG2	25:P:220:TYR:CD1	2.84	0.60
25:P:422:LEU:CD2	30:U:229:LEU:HA	2.30	0.60
28:S:436:ILE:CG1	29:T:196:SER:O	2.45	0.60
30:U:112:LYS:NZ	32:W:60:ARG:NH2	2.49	0.60
35:Z:52:LEU:HD13	35:Z:67:SER:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:Z:194:GLU:HG2	35:Z:195:PHE:CD2	2.36	0.60
35:Z:567:ALA:CB	35:Z:599:ILE:HG12	2.31	0.60
2:2:8:PHE:CE2	2:2:11:GLY:CA	2.84	0.60
3:3:59:ARG:CZ	12:C:99:LEU:HD11	2.23	0.60
5:5:73:ARG:NH1	5:5:106:ARG:HD2	2.15	0.60
18:I:102:ASN:HD21	19:J:83:LYS:HZ1	1.49	0.60
20:K:350:ARG:NH2	26:Q:215:VAL:HG12	2.16	0.60
23:N:43:LEU:HD21	23:N:69:TYR:CZ	2.35	0.60
23:N:579:SER:HA	23:N:584:ARG:NE	2.15	0.60
24:O:219:ILE:HG22	24:O:223:LEU:HD22	1.78	0.60
25:P:235:LEU:HD21	25:P:276:LEU:HD11	1.81	0.60
26:Q:178:HIS:CB	26:Q:201:ALA:HB2	2.32	0.60
27:R:208:ASN:CG	27:R:238:PHE:CD1	2.77	0.60
29:T:209:LEU:CB	29:T:211:PHE:CE1	2.80	0.60
30:U:132:LEU:HG	30:U:134:THR:H	1.66	0.60
31:V:24:LYS:NZ	31:V:197:TYR:OH	2.34	0.60
31:V:104:VAL:HG13	31:V:106:GLY:O	2.02	0.60
31:V:182:LYS:HE2	31:V:185:ILE:CG2	2.31	0.60
35:Z:539:ASN:O	35:Z:574:TYR:OH	2.18	0.60
35:Z:854:LEU:HD21	35:Z:864:MET:SD	2.41	0.60
35:Z:867:PHE:HE2	35:Z:871:HIS:ND1	1.92	0.60
6:6:-8:PHE:HE1	7:7:124:LEU:HD13	1.67	0.60
21:L:253:ASP:HA	22:M:256:ILE:CB	2.31	0.60
23:N:320:SER:HB2	23:N:686:ILE:CG2	2.31	0.60
25:P:231:LYS:O	25:P:232:ARG:HB2	2.01	0.60
25:P:234:TYR:HA	25:P:267:PHE:HE2	1.55	0.60
28:S:288:THR:HG22	28:S:292:TYR:CE2	2.36	0.60
32:W:172:LEU:CD2	32:W:185:ILE:CA	2.79	0.60
35:Z:102:ILE:CG2	35:Z:112:LYS:HG3	2.21	0.60
6:6:22:THR:OG1	6:6:27:ASN:ND2	2.31	0.60
18:I:253:ILE:HB	19:J:267:GLU:OE2	2.02	0.60
19:J:142:VAL:O	19:J:142:VAL:HG12	2.01	0.60
23:N:398:ARG:HD2	23:N:438:ASP:HB3	1.83	0.60
23:N:402:GLY:HA2	23:N:442:LEU:HD12	1.84	0.60
24:O:240:GLU:C	24:O:241:THR:HG23	2.26	0.60
24:O:329:MET:CA	25:P:357:TYR:OH	2.45	0.60
24:O:373:TRP:CD1	30:U:200:LEU:HD11	2.35	0.60
27:R:125:GLU:OE1	27:R:126:GLY:N	2.32	0.60
27:R:134:TRP:CH2	27:R:156:LYS:NZ	2.66	0.60
27:R:308:LEU:CB	27:R:334:ARG:CZ	2.79	0.60
29:T:59:LYS:HD3	29:T:97:SER:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:T:225:ASN:HB2	29:T:241:GLU:CA	2.31	0.60
33:X:100:TRP:HZ2	33:X:110:PRO:CG	2.14	0.60
5:5:83:LEU:HD21	5:5:97:MET:SD	2.41	0.60
10:A:148:GLU:HG2	10:A:230:LYS:HE3	1.82	0.60
14:E:17:PRO:HA	15:F:24:TYR:CD1	2.36	0.60
22:M:166:ARG:O	22:M:167:VAL:CG2	2.50	0.60
23:N:771:PHE:CE2	23:N:772:GLN:O	2.55	0.60
25:P:293:LEU:HD23	25:P:293:LEU:C	2.26	0.60
26:Q:85:MET:HE2	26:Q:93:THR:CA	2.29	0.60
28:S:286:TYR:CE1	28:S:323:LEU:CB	2.83	0.60
35:Z:863:THR:OG1	35:Z:911:LYS:HE2	2.01	0.60
1:1:36:ARG:HG3	1:1:38:HIS:O	2.01	0.60
1:1:75:THR:CB	1:1:111:TYR:CD1	2.83	0.60
19:J:219:VAL:CG1	20:K:284:ALA:HB1	2.31	0.60
23:N:528:ARG:NH2	23:N:531:LEU:O	2.27	0.60
27:R:320:LYS:HD2	27:R:324:ARG:HD2	1.84	0.60
28:S:420:GLU:O	28:S:423:VAL:HG12	2.01	0.60
35:Z:186:GLY:O	35:Z:187:SER:CB	2.49	0.60
35:Z:193:PHE:CE2	35:Z:196:SER:CB	2.84	0.60
1:1:4:MET:HE1	1:1:158:SER:OG	2.01	0.60
3:3:173:GLY:HA2	3:3:193:MET:HE2	1.83	0.60
8:8:318:PHE:HA	9:9:71:LEU:HD23	1.55	0.60
12:C:208:TYR:HB2	12:C:235:ILE:CG2	2.32	0.60
16:G:182:HIS:CD2	16:G:186:LEU:CD1	2.85	0.60
19:J:133:LEU:HD23	19:J:137:MET:CE	2.32	0.60
19:J:143:PRO:O	19:J:204:HIS:ND1	2.35	0.60
20:K:68:ILE:HD11	23:N:608:LEU:CD2	2.31	0.60
28:S:153:GLU:HA	28:S:156:VAL:HG23	1.83	0.60
28:S:471:LEU:HB2	30:U:288:PHE:CE1	2.36	0.60
29:T:35:ILE:CD1	29:T:40:LEU:CD1	2.69	0.60
29:T:93:ASN:ND2	29:T:94:HIS:CD2	2.67	0.60
29:T:245:TYR:HE2	29:T:251:HIS:NE2	1.92	0.60
30:U:226:LEU:HD23	30:U:226:LEU:C	2.27	0.60
30:U:283:ARG:CZ	31:V:283:THR:C	2.74	0.60
35:Z:471:LEU:HG	35:Z:497:PHE:CD2	2.35	0.60
5:5:126:ILE:HD11	5:5:144:TYR:CZ	2.37	0.60
8:8:330:LEU:N	17:H:163:VAL:HG23	2.17	0.60
10:A:130:GLN:HB3	11:B:127:VAL:CG2	2.31	0.60
14:E:226:ASP:OD2	14:E:229:LYS:HD2	2.02	0.60
16:G:73:ILE:HG12	16:G:108:ILE:HD13	1.80	0.60
17:H:249:TYR:OH	17:H:376:GLU:CB	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J:111:GLN:CD	19:J:125:VAL:CG1	2.74	0.60
19:J:167:PRO:CD	19:J:174:PHE:HZ	2.06	0.60
22:M:335:PRO:O	22:M:342:ARG:NH1	2.35	0.60
23:N:47:GLU:O	23:N:50:TYR:CB	2.41	0.60
23:N:490:LEU:HD23	23:N:490:LEU:C	2.26	0.60
24:O:179:PHE:CZ	24:O:187:SER:HB3	2.37	0.60
24:O:223:LEU:HG	24:O:279:ILE:HG13	1.84	0.60
24:O:335:GLY:O	24:O:336:LEU:HB2	2.02	0.60
31:V:261:LEU:CD2	31:V:283:THR:CG2	2.58	0.60
35:Z:102:ILE:HG22	35:Z:112:LYS:CG	2.24	0.60
35:Z:970:TYR:CE1	35:Z:993:GLU:HB2	2.36	0.60
1:1:85:LEU:HD12	1:1:89:ASN:ND2	2.17	0.60
4:4:37:LEU:HD23	4:4:60:GLN:OE1	2.02	0.60
10:A:48:LYS:NZ	10:A:195:ASN:HD21	1.99	0.60
10:A:172:GLY:H	20:K:419:ASN:ND2	2.00	0.60
15:F:166:GLN:O	22:M:381:ARG:NH2	2.35	0.60
17:H:104:LYS:HB3	17:H:170:GLU:OE1	2.02	0.60
17:H:340:LEU:HD12	17:H:370:ARG:NH1	2.09	0.60
20:K:156:SER:CB	20:K:253:MET:HE2	2.32	0.60
24:O:217:LEU:HD21	24:O:236:HIS:HE1	1.67	0.60
27:R:37:LYS:HA	27:R:43:ARG:HH22	1.67	0.60
27:R:101:GLU:HG2	27:R:105:LYS:CE	2.31	0.60
27:R:137:LEU:O	27:R:141:TYR:CD2	2.53	0.60
27:R:421:VAL:O	27:R:422:ARG:HB3	2.01	0.60
30:U:19:LEU:HD23	30:U:19:LEU:C	2.26	0.60
32:W:98:LEU:O	32:W:98:LEU:HG	2.00	0.60
33:X:75:TRP:CG	33:X:87:PHE:CE1	2.88	0.60
35:Z:60:ASP:CG	35:Z:63:LEU:HD12	2.26	0.60
1:1:80:SER:HB3	16:G:103:LYS:CG	2.32	0.59
8:8:212:GLU:CG	9:9:42:ARG:NH1	2.65	0.59
15:F:145:LEU:HD23	15:F:146:GLU:C	2.27	0.59
16:G:150:LEU:HD12	16:G:156:TYR:HB3	1.84	0.59
17:H:244:LYS:HE3	17:H:340:LEU:HD22	1.84	0.59
18:I:306:MET:SD	18:I:338:LEU:HD11	2.42	0.59
18:I:384:LYS:HZ1	18:I:395:MET:CE	2.14	0.59
23:N:202:PHE:CE2	23:N:206:ILE:CD1	2.83	0.59
24:O:373:TRP:CH2	30:U:233:PHE:CG	2.90	0.59
26:Q:51:ARG:NH2	26:Q:92:LYS:CB	2.58	0.59
28:S:138:MET:SD	28:S:179:ILE:HG12	2.42	0.59
28:S:185:PHE:CD1	28:S:239:ARG:CZ	2.84	0.59
28:S:237:ILE:HG21	28:S:253:PHE:HE1	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:T:28:PRO:HB2	29:T:29:PRO:CD	2.29	0.59
29:T:197:TYR:CD1	29:T:198:ASP:C	2.79	0.59
32:W:65:PHE:CD2	32:W:65:PHE:O	2.54	0.59
33:X:8:ILE:HB	33:X:124:LYS:HE3	1.83	0.59
35:Z:551:LEU:CG	35:Z:593:HIS:NE2	2.60	0.59
1:1:38:HIS:HE1	1:1:67:THR:CG2	2.14	0.59
2:2:8:PHE:CE1	2:2:12:VAL:C	2.78	0.59
2:2:77:VAL:O	2:2:81:GLN:HG2	2.02	0.59
10:A:52:VAL:CG2	10:A:202:VAL:CG1	2.80	0.59
23:N:436:ASP:O	23:N:439:VAL:HG12	2.02	0.59
24:O:43:GLU:O	24:O:46:THR:HB	2.02	0.59
26:Q:112:ASP:O	26:Q:116:PHE:HD2	1.85	0.59
26:Q:266:LEU:HD21	26:Q:281:ILE:CG2	2.31	0.59
28:S:159:ASN:HB2	28:S:187:ILE:CD1	2.33	0.59
29:T:224:ARG:CG	29:T:242:LYS:HG2	2.32	0.59
30:U:16:LEU:C	31:V:32:ILE:HD11	2.27	0.59
30:U:280:ASN:ND2	31:V:291:ASN:CG	2.59	0.59
31:V:144:ILE:HG22	31:V:145:GLN:HE21	1.66	0.59
32:W:88:ALA:HB2	32:W:120:ASP:HB3	1.84	0.59
33:X:10:PHE:CD2	33:X:11:ARG:O	2.54	0.59
4:4:81:SER:CA	4:4:124:LYS:NZ	2.65	0.59
6:6:147:PHE:CD2	6:6:163:LEU:HA	2.37	0.59
12:C:16:GLU:OE1	12:C:18:ARG:NH2	2.36	0.59
13:D:106:VAL:HG12	13:D:148:TYR:CE2	2.37	0.59
16:G:7:TYR:CD1	16:G:13:VAL:HG23	2.37	0.59
19:J:69:GLY:N	20:K:144:ASN:CG	2.57	0.59
24:O:119:SER:C	24:O:166:ARG:CD	2.75	0.59
25:P:231:LYS:O	25:P:232:ARG:CB	2.49	0.59
25:P:269:VAL:HA	25:P:277:GLN:NE2	2.17	0.59
26:Q:135:HIS:NE2	26:Q:164:GLU:HG3	2.16	0.59
27:R:353:MET:HA	27:R:357:PHE:CE1	2.37	0.59
28:S:421:TYR:CE1	29:T:158:GLN:HB2	2.37	0.59
30:U:275:VAL:HG12	31:V:251:TYR:CE1	2.04	0.59
31:V:184:ASN:O	31:V:188:LEU:HG	2.01	0.59
32:W:21:PHE:CZ	32:W:25:ARG:HG3	2.37	0.59
1:1:13:ILE:CD1	1:1:177:VAL:HG22	2.32	0.59
1:1:109:GLU:HB3	1:1:111:TYR:CE1	2.37	0.59
1:1:176:VAL:HG13	1:1:183:VAL:HG12	1.83	0.59
7:7:81:PRO:HD2	7:7:112:GLN:HG2	1.84	0.59
8:8:114:MSE:CE	8:8:181:PRO:HD2	2.32	0.59
13:D:149:GLN:CD	13:D:162:GLN:HG2	2.27	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:G:140:VAL:HG21	16:G:225:GLY:HA2	1.84	0.59
17:H:208:TYR:OH	17:H:266:ARG:HD2	2.02	0.59
21:L:164:ASP:O	21:L:166:LEU:HD12	2.02	0.59
21:L:328:ASN:ND2	21:L:329:ARG:NE	2.50	0.59
23:N:555:ILE:HG23	23:N:559:TYR:CE2	2.38	0.59
24:O:196:LEU:HD13	24:O:213:LEU:CD2	2.31	0.59
26:Q:76:GLU:C	26:Q:79:PRO:HD2	2.27	0.59
27:R:63:TYR:OH	27:R:92:ILE:C	2.42	0.59
28:S:186:TYR:OH	28:S:309:PHE:HZ	1.85	0.59
30:U:105:LYS:HB3	32:W:58:ASN:HD21	1.65	0.59
31:V:261:LEU:CD1	31:V:283:THR:HG22	2.30	0.59
35:Z:189:ALA:HB3	35:Z:193:PHE:HB3	1.82	0.59
3:3:20:LEU:HD13	4:4:125:VAL:HG21	1.84	0.59
4:4:95:ARG:NE	5:5:92:GLY:HA3	2.14	0.59
16:G:141:ASP:OD1	16:G:143:ASN:N	2.22	0.59
19:J:219:VAL:HG13	20:K:284:ALA:HB1	1.85	0.59
21:L:276:CYS:SG	21:L:321:THR:HG23	2.42	0.59
21:L:360:ILE:CG2	21:L:391:ILE:CD1	2.51	0.59
22:M:383:THR:HB	22:M:386:PHE:CD1	2.37	0.59
24:O:33:TYR:CE1	24:O:57:LEU:HB2	2.38	0.59
24:O:66:VAL:HG11	24:O:106:PHE:CE1	2.37	0.59
24:O:140:LYS:HD3	24:O:141:ASN:HD21	1.66	0.59
29:T:225:ASN:HB2	29:T:241:GLU:HB3	1.83	0.59
30:U:287:ALA:O	30:U:291:LEU:HG	2.03	0.59
33:X:35:ILE:HG12	33:X:124:LYS:CE	2.32	0.59
33:X:66:LEU:HD12	33:X:97:TYR:CG	2.37	0.59
1:1:119:VAL:CG1	16:G:103:LYS:NZ	2.64	0.59
5:5:4:LEU:HD11	5:5:15:ALA:HB3	1.83	0.59
7:7:10:ASN:HD22	7:7:195:ASN:HD21	1.49	0.59
14:E:153:TYR:OH	14:E:223:THR:HA	2.02	0.59
15:F:120:THR:HB	16:G:129:ARG:HH22	1.67	0.59
17:H:102:CYS:SG	17:H:174:VAL:CG2	2.90	0.59
18:I:362:LEU:CD2	18:I:377:LEU:HD22	2.31	0.59
23:N:542:SER:HB3	23:N:547:LEU:HD12	1.84	0.59
26:Q:382:LEU:HD21	27:R:344:SER:HB3	1.84	0.59
27:R:360:SER:HA	34:Y:86:ARG:NH2	2.18	0.59
27:R:415:GLN:CG	28:S:471:LEU:HD22	2.08	0.59
28:S:242:LEU:HD21	28:S:278:LYS:HG2	1.85	0.59
35:Z:800:SER:OG	35:Z:815:MET:CE	2.50	0.59
4:4:7:ARG:HG3	4:4:12:VAL:HG22	1.84	0.59
10:A:119:LYS:HG2	10:A:163:TYR:CZ	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:A:130:GLN:CB	11:B:127:VAL:HG23	2.32	0.59
16:G:111:PHE:CE2	16:G:115:LEU:HD11	2.38	0.59
16:G:122:HIS:CD2	16:G:128:VAL:CG1	2.85	0.59
20:K:158:ILE:N	21:L:256:ILE:CG2	2.65	0.59
23:N:324:LYS:HG3	23:N:325:PHE:CE1	2.37	0.59
23:N:596:LEU:HD11	23:N:717:LEU:CD2	2.32	0.59
23:N:641:LEU:HB2	23:N:660:LEU:HD21	1.85	0.59
24:O:62:TYR:CE2	24:O:82:LEU:HD13	2.37	0.59
24:O:140:LYS:HD3	24:O:141:ASN:ND2	2.16	0.59
24:O:185:PHE:HB3	24:O:223:LEU:CB	2.32	0.59
24:O:293:LEU:O	24:O:297:ILE:CG1	2.47	0.59
27:R:110:ILE:HD11	27:R:140:TYR:OH	2.02	0.59
28:S:232:MET:HE2	28:S:268:LEU:HD13	1.85	0.59
33:X:41:GLU:CB	33:X:45:PHE:N	2.62	0.59
4:4:34:THR:OG1	4:4:181:LYS:NZ	2.36	0.59
13:D:96:HIS:CD2	13:D:100:LEU:HB2	2.38	0.59
14:E:162:GLY:O	15:F:82:ARG:NH2	2.36	0.59
23:N:238:ALA:O	23:N:242:PHE:HD2	1.83	0.59
23:N:338:PHE:CE1	23:N:749:LEU:HB3	2.37	0.59
23:N:719:ASN:HB3	23:N:721:ASP:OD1	2.02	0.59
24:O:306:ARG:CD	24:O:351:SER:O	2.29	0.59
29:T:175:ASP:OD1	29:T:176:SER:N	2.34	0.59
35:Z:321:PHE:HE1	35:Z:350:GLY:CA	1.85	0.59
4:4:40:HIS:HD2	4:4:184:ASP:O	1.86	0.59
10:A:14:ARG:HA	10:A:27:GLN:NE2	2.18	0.59
11:B:27:ALA:CB	20:K:426:PHE:CE1	2.79	0.59
15:F:38:LEU:HD13	15:F:172:LEU:HD22	1.83	0.59
17:H:105:ILE:CD1	17:H:146:VAL:HA	2.33	0.59
18:I:113:ILE:HG22	18:I:114:ASP:N	2.18	0.59
18:I:378:GLU:O	18:I:382:THR:HG23	2.02	0.59
19:J:219:VAL:CG1	20:K:281:ARG:NE	2.66	0.59
21:L:259:SER:HB2	21:L:303:ARG:NH2	2.09	0.59
35:Z:970:TYR:HH	35:Z:992:GLU:C	2.11	0.59
1:1:75:THR:HB	1:1:111:TYR:HE1	1.65	0.59
18:I:398:GLU:CD	18:I:422:ARG:HH21	2.11	0.59
19:J:113:VAL:CG2	19:J:122:LEU:HD22	2.33	0.59
20:K:173:ASP:HB2	20:K:221:MET:SD	2.43	0.59
22:M:365:SER:HB3	22:M:376:TRP:CZ2	2.25	0.59
23:N:641:LEU:CD1	23:N:660:LEU:HD23	2.33	0.59
25:P:221:TYR:HE2	25:P:244:ILE:CG1	2.16	0.59
25:P:369:LEU:O	25:P:371:LEU:HG	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:P:433:ILE:HD11	30:U:203:LYS:HD3	1.85	0.59
31:V:109:HIS:HE1	31:V:122:ASP:OD1	1.85	0.59
33:X:11:ARG:O	33:X:103:GLU:OE2	2.20	0.59
33:X:35:ILE:CG1	33:X:124:LYS:CE	2.79	0.59
35:Z:924:LYS:CG	35:Z:959:HIS:CE1	2.85	0.59
7:7:7:LYS:CE	7:7:119:LEU:HB3	2.32	0.58
8:8:282:GLU:HB2	9:9:12:THR:N	2.14	0.58
10:A:122:ALA:CB	10:A:163:TYR:CD1	2.86	0.58
11:B:4:ARG:HH22	13:D:5:ASP:CB	2.07	0.58
12:C:98:TYR:CE1	12:C:105:ASP:O	2.56	0.58
15:F:65:LYS:HG3	15:F:222:PHE:CE2	2.38	0.58
15:F:194:VAL:HG11	15:F:234:ILE:HA	1.84	0.58
22:M:75:LEU:HG	22:M:77:TYR:HE1	1.46	0.58
22:M:251:LEU:C	22:M:253:GLN:N	2.61	0.58
23:N:25:LEU:HD11	23:N:57:ASP:CG	2.28	0.58
23:N:298:TYR:OH	23:N:766:GLN:HB3	2.03	0.58
23:N:316:LYS:HE2	23:N:683:LEU:HD11	1.85	0.58
23:N:667:GLN:HG3	23:N:671:LEU:HD23	1.82	0.58
24:O:80:LYS:HD3	24:O:81:TYR:CE2	2.38	0.58
24:O:82:LEU:HD23	24:O:98:TYR:OH	2.02	0.58
24:O:229:ASN:CG	24:O:287:LEU:HG	2.28	0.58
35:Z:542:ILE:O	35:Z:546:ILE:HG12	2.03	0.58
3:3:89:ARG:NE	3:3:94:TYR:OH	2.29	0.58
6:6:9:GLU:HG2	6:6:11:PHE:HE1	1.67	0.58
15:F:153:VAL:HB	16:G:85:ARG:NH1	2.14	0.58
20:K:150:LEU:HD11	21:L:128:ILE:HD11	1.84	0.58
20:K:314:VAL:HG11	20:K:316:MET:HE2	1.85	0.58
24:O:228:TYR:CD1	24:O:294:MET:HG3	2.39	0.58
27:R:167:LYS:O	27:R:171:MET:HG2	2.03	0.58
32:W:145:GLY:HA3	32:W:148:GLU:OE1	2.03	0.58
35:Z:325:GLY:C	35:Z:326:VAL:HG22	2.28	0.58
1:1:90:LYS:HE2	7:7:-7:GLN:OE1	2.03	0.58
1:1:119:VAL:CB	16:G:103:LYS:HZ3	2.16	0.58
7:7:1:THR:HG22	7:7:2:SER:OG	2.03	0.58
15:F:65:LYS:HD2	15:F:222:PHE:CD2	2.37	0.58
17:H:274:VAL:HG21	17:H:294:LEU:HD13	1.85	0.58
18:I:339:ILE:O	18:I:340:ARG:HB3	2.03	0.58
20:K:281:ARG:NH2	20:K:287:GLY:N	2.51	0.58
21:L:197:ILE:HA	21:L:322:LYS:HE3	1.85	0.58
23:N:326:SER:N	31:V:182:LYS:CG	2.65	0.58
23:N:328:PHE:HE1	23:N:696:LYS:HB2	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:N:671:LEU:HD22	23:N:782:PHE:CE1	2.38	0.58
23:N:707:ASN:HD21	23:N:786:ARG:NH1	2.01	0.58
24:O:137:TYR:CB	24:O:149:LEU:CD1	2.81	0.58
24:O:250:TRP:CE2	24:O:270:ILE:HA	2.38	0.58
24:O:340:SER:O	25:P:358:SER:HB2	2.03	0.58
26:Q:48:ASP:HB3	26:Q:88:PHE:CE1	2.38	0.58
26:Q:297:ASP:HB3	26:Q:321:TYR:CZ	2.37	0.58
29:T:39:LEU:O	29:T:40:LEU:CB	2.51	0.58
35:Z:265:LEU:HD13	35:Z:288:LEU:HD21	1.85	0.58
1:1:119:VAL:HG11	16:G:103:LYS:NZ	2.18	0.58
10:A:87:ILE:CG2	10:A:88:PRO:HD3	2.32	0.58
17:H:98:GLN:OE1	17:H:178:ARG:NE	2.34	0.58
17:H:105:ILE:HA	17:H:170:GLU:OE2	2.04	0.58
19:J:163:VAL:HG13	19:J:182:PRO:HG2	1.84	0.58
19:J:273:LEU:HD22	19:J:309:ARG:O	2.02	0.58
23:N:479:GLU:HB3	23:N:512:ASN:HD21	1.69	0.58
23:N:884:PHE:CD2	23:N:896:PHE:HB2	2.38	0.58
24:O:345:ASN:O	24:O:347:LEU:HG	2.02	0.58
25:P:260:VAL:HG22	25:P:328:ALA:CB	2.33	0.58
25:P:286:ASN:O	25:P:293:LEU:HD11	2.03	0.58
27:R:193:ALA:O	27:R:197:MET:HG3	2.03	0.58
32:W:98:LEU:HD11	32:W:108:GLN:CG	2.33	0.58
35:Z:624:LEU:HD13	35:Z:736:LEU:O	2.04	0.58
12:C:68:LYS:HG3	12:C:229:ILE:HD11	1.85	0.58
17:H:147:ILE:HD11	17:H:157:VAL:O	2.04	0.58
17:H:295:PHE:CE1	17:H:336:LEU:HD12	2.38	0.58
19:J:250:ILE:HA	19:J:299:ILE:HD13	1.84	0.58
19:J:327:ILE:HG22	19:J:358:VAL:HG11	1.85	0.58
19:J:329:ARG:HB2	19:J:343:LEU:HD13	1.85	0.58
21:L:136:ASP:O	21:L:158:ILE:HD13	2.03	0.58
22:M:289:LYS:HD2	22:M:295:LYS:HE3	1.85	0.58
23:N:52:ASP:O	23:N:53:ASP:CG	2.47	0.58
23:N:641:LEU:HD12	23:N:660:LEU:HD23	1.86	0.58
25:P:327:LEU:O	25:P:328:ALA:HB3	2.04	0.58
26:Q:3:LEU:HD23	26:Q:36:SER:HA	1.86	0.58
31:V:24:LYS:HZ2	31:V:197:TYR:HE2	1.44	0.58
33:X:75:TRP:HA	33:X:87:PHE:CE1	2.26	0.58
4:4:77:GLN:OE1	4:4:116:TYR:OH	2.05	0.58
4:4:81:SER:HA	4:4:124:LYS:HZ3	1.68	0.58
11:B:82:TYR:HE1	11:B:134:LEU:CD2	2.17	0.58
17:H:166:THR:O	17:H:186:PRO:HB3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:K:306:PHE:O	20:K:307:ASP:HB2	2.03	0.58
21:L:259:SER:HB3	21:L:303:ARG:NH2	2.03	0.58
23:N:94:LYS:HE3	23:N:143:LYS:HZ3	1.68	0.58
23:N:329:HIS:ND1	23:N:355:TRP:HE3	2.00	0.58
25:P:94:GLN:HG3	25:P:125:VAL:HG12	1.84	0.58
25:P:298:SER:O	25:P:302:LEU:HG	2.02	0.58
30:U:92:TRP:CE3	30:U:110:PHE:HE2	2.21	0.58
5:5:58:TRP:CH2	5:5:86:LEU:HD11	2.38	0.58
12:C:194:LEU:HD23	12:C:197:LEU:HD12	1.86	0.58
16:G:98:PHE:CD2	16:G:106:ILE:HA	2.37	0.58
19:J:329:ARG:HG3	19:J:333:ARG:HH12	1.60	0.58
20:K:347:ARG:HH12	26:Q:205:ALA:CB	2.13	0.58
21:L:389:ALA:HA	21:L:392:ARG:CZ	2.33	0.58
24:O:133:ILE:O	24:O:137:TYR:CG	2.56	0.58
24:O:205:ILE:CD1	24:O:210:ARG:HD2	2.31	0.58
24:O:235:HIS:NE2	24:O:358:ILE:HG23	2.19	0.58
25:P:360:ILE:CD1	25:P:365:LEU:HD13	2.34	0.58
27:R:292:LEU:HD21	27:R:307:TYR:CB	2.34	0.58
28:S:176:LEU:CD1	28:S:179:ILE:HB	2.33	0.58
33:X:100:TRP:CZ2	33:X:110:PRO:HD3	2.39	0.58
2:2:152:ILE:CD1	2:2:177:VAL:HG21	2.34	0.58
5:5:66:HIS:CE1	5:5:70:GLU:CD	2.82	0.58
10:A:112:MET:HE1	10:A:116:VAL:HG12	1.85	0.58
12:C:4:ARG:HG3	12:C:9:ARG:NH2	2.18	0.58
18:I:167:MET:CG	18:I:270:VAL:HG11	2.33	0.58
19:J:27:ILE:HG13	20:K:51:LEU:HD11	1.86	0.58
20:K:254:VAL:CG1	20:K:258:PHE:HE1	2.11	0.58
20:K:262:ARG:NH1	20:K:311:ASN:ND2	2.51	0.58
21:L:81:ILE:O	21:L:83:ASP:N	2.37	0.58
25:P:271:SER:O	25:P:344:ARG:HD3	2.03	0.58
26:Q:65:TYR:HD2	26:Q:74:LEU:CB	2.04	0.58
26:Q:419:LEU:HD23	26:Q:419:LEU:O	2.02	0.58
28:S:343:LEU:N	28:S:344:PRO:HD2	2.17	0.58
29:T:241:GLU:H	29:T:246:GLU:HB2	1.68	0.58
30:U:157:LEU:HD23	30:U:157:LEU:C	2.29	0.58
33:X:85:ARG:HE	33:X:115:SER:HB3	1.68	0.58
2:2:84:LYS:HE3	2:2:85:GLN:HE21	1.69	0.58
18:I:190:GLN:NE2	18:I:351:GLU:HB3	2.19	0.58
18:I:387:LEU:HA	18:I:427:LYS:NZ	2.15	0.58
24:O:105:GLN:HA	24:O:108:GLU:CD	2.29	0.58
27:R:237:THR:HG22	27:R:250:ALA:HA	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:T:46:ILE:CD1	29:T:94:HIS:NE2	2.67	0.58
29:T:241:GLU:O	29:T:242:LYS:CB	2.51	0.58
35:Z:889:VAL:HG22	35:Z:890:SER:N	2.19	0.58
10:A:48:LYS:HZ1	10:A:195:ASN:HD21	1.50	0.58
12:C:120:GLN:NE2	13:D:81:ASP:OD1	2.37	0.58
20:K:200:GLN:O	27:R:204:TRP:CE2	2.56	0.58
23:N:300:ASN:ND2	23:N:920:VAL:HG11	2.19	0.58
24:O:240:GLU:O	24:O:241:THR:OG1	2.20	0.58
30:U:280:ASN:HD21	31:V:291:ASN:CB	2.17	0.58
35:Z:56:LEU:HB3	35:Z:99:LEU:HD21	1.85	0.58
35:Z:394:TYR:CD2	35:Z:395:CYS:N	2.67	0.58
35:Z:490:ILE:HG23	35:Z:529:ALA:HB2	1.86	0.58
17:H:389:PHE:CE2	17:H:407:ILE:HG22	2.39	0.57
19:J:27:ILE:HG12	20:K:51:LEU:HG	1.85	0.57
19:J:192:GLY:HA2	19:J:253:ILE:HG13	1.84	0.57
19:J:276:LEU:HD22	19:J:286:LYS:HE2	1.86	0.57
23:N:508:THR:HG21	23:N:513:ILE:CB	2.32	0.57
23:N:738:GLN:NE2	23:N:742:TRP:CH2	2.72	0.57
24:O:166:ARG:NH2	24:O:169:ASN:HB3	2.19	0.57
25:P:119:ILE:CD1	25:P:143:LEU:HD22	2.33	0.57
26:Q:314:PHE:CZ	26:Q:339:TYR:HB2	2.39	0.57
27:R:412:THR:HG22	27:R:416:LYS:HE3	1.86	0.57
30:U:92:TRP:NE1	30:U:120:LEU:HB2	2.19	0.57
4:4:37:LEU:HD21	4:4:43:MET:SD	2.44	0.57
6:6:-2:ASN:HD22	6:6:49:ALA:H	1.52	0.57
14:E:165:TYR:O	14:E:167:TYR:CE1	2.58	0.57
18:I:106:ILE:HD13	19:J:85:LEU:HD22	1.82	0.57
18:I:303:GLN:O	18:I:307:LEU:HG	2.04	0.57
24:O:217:LEU:HD21	24:O:236:HIS:CE1	2.38	0.57
25:P:238:ALA:O	25:P:242:GLN:HG3	2.03	0.57
26:Q:61:LEU:HB3	26:Q:65:TYR:CE1	2.31	0.57
27:R:208:ASN:CG	27:R:238:PHE:HB2	2.29	0.57
27:R:292:LEU:HD21	27:R:307:TYR:HB3	1.85	0.57
29:T:93:ASN:HD21	29:T:94:HIS:HD2	1.50	0.57
29:T:226:TRP:CD2	29:T:235:PHE:CE2	2.92	0.57
30:U:283:ARG:HH11	31:V:284:ALA:HA	1.63	0.57
31:V:52:LEU:O	31:V:108:TYR:CE1	2.57	0.57
32:W:16:SER:HA	32:W:25:ARG:NH1	2.19	0.57
1:1:8:PHE:HD2	1:1:10:ASP:H	1.50	0.57
12:C:9:ARG:HD3	14:E:9:ASP:OD1	2.03	0.57
18:I:222:TYR:OH	18:I:349:LEU:HB3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J:45:GLU:OE2	19:J:48:ARG:NH2	2.27	0.57
19:J:166:LEU:HB2	19:J:174:PHE:HZ	1.68	0.57
20:K:200:GLN:CG	27:R:204:TRP:CZ2	2.54	0.57
20:K:254:VAL:CG1	20:K:258:PHE:CE1	2.87	0.57
25:P:342:GLN:HE21	25:P:346:ILE:HD11	1.70	0.57
26:Q:294:ARG:NH2	26:Q:324:GLU:HB2	2.20	0.57
26:Q:326:MET:CE	26:Q:332:ARG:HD2	2.35	0.57
29:T:38:ASN:O	29:T:39:LEU:HD23	2.03	0.57
7:7:62:LEU:HD21	7:7:87:TYR:CZ	2.39	0.57
9:9:17:VAL:HG12	9:9:29:LYS:HE3	1.85	0.57
18:I:300:ARG:HG2	18:I:304:ARG:HH11	1.69	0.57
18:I:380:LEU:HA	18:I:420:LYS:NZ	2.12	0.57
19:J:169:LYS:HZ1	19:J:206:THR:HA	1.67	0.57
22:M:225:GLY:C	22:M:226:THR:HG23	2.28	0.57
23:N:158:LEU:HD13	23:N:192:LEU:CD2	2.34	0.57
24:O:26:PHE:HD1	24:O:61:LEU:CD2	2.16	0.57
24:O:230:PHE:HD1	24:O:251:LEU:CD1	2.16	0.57
25:P:131:PHE:CD1	25:P:166:GLU:HB3	2.40	0.57
25:P:164:GLN:HE22	25:P:202:LYS:NZ	2.01	0.57
26:Q:61:LEU:HD13	26:Q:65:TYR:CE2	2.39	0.57
26:Q:390:LEU:HD23	27:R:345:TYR:CE1	2.39	0.57
28:S:471:LEU:CD1	30:U:288:PHE:CE2	2.87	0.57
29:T:173:GLU:HA	29:T:175:ASP:OD1	2.04	0.57
30:U:92:TRP:CE3	30:U:106:ILE:HG21	2.38	0.57
31:V:50:MET:CB	31:V:78:VAL:HG13	2.35	0.57
35:Z:415:MET:HE1	35:Z:444:GLU:CD	2.29	0.57
35:Z:510:LEU:CD1	35:Z:542:ILE:HA	2.31	0.57
8:8:328:LYS:C	17:H:163:VAL:HG22	2.30	0.57
10:A:220:LYS:CD	10:A:242:GLU:HB2	2.32	0.57
17:H:62:ARG:HG2	17:H:66:LYS:HE3	1.86	0.57
18:I:358:LYS:CE	18:I:387:LEU:H	2.17	0.57
20:K:134:SER:OG	20:K:255:ARG:CZ	2.52	0.57
23:N:510:HIS:CE1	23:N:512:ASN:HB3	2.39	0.57
24:O:79:VAL:HG23	24:O:122:HIS:CG	2.40	0.57
25:P:180:ILE:HD11	25:P:206:LYS:HZ2	1.69	0.57
29:T:189:ILE:HG21	29:T:209:LEU:HD23	1.85	0.57
35:Z:312:TYR:OH	35:Z:348:LEU:HD23	2.05	0.57
7:7:8:TYR:CE2	7:7:10:ASN:C	2.82	0.57
7:7:68:TYR:CE2	16:G:92:ARG:HB3	2.39	0.57
10:A:24:ARG:NE	10:A:29:GLU:OE2	2.37	0.57
11:B:53:SER:HB3	11:B:56:ALA:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:B:139:HIS:HB2	11:B:145:PHE:CE1	2.39	0.57
15:F:137:TYR:CE2	15:F:218:LYS:HA	2.39	0.57
17:H:286:GLU:CD	17:H:289:ARG:HH21	1.94	0.57
18:I:196:GLU:O	18:I:208:TYR:OH	2.21	0.57
18:I:253:ILE:HG22	18:I:253:ILE:O	2.05	0.57
20:K:303:MET:HE1	20:K:316:MET:CE	2.35	0.57
21:L:394:CYS:SG	21:L:419:VAL:HA	2.45	0.57
21:L:403:ILE:HG23	22:M:203:ARG:HH11	1.70	0.57
22:M:220:MET:HB3	22:M:349:PHE:HE1	1.69	0.57
23:N:399:PHE:CE2	23:N:438:ASP:OD1	2.58	0.57
24:O:50:ASP:HA	24:O:53:LYS:HZ3	1.69	0.57
24:O:81:TYR:O	24:O:82:LEU:CB	2.51	0.57
24:O:133:ILE:HG13	24:O:137:TYR:CZ	2.40	0.57
25:P:415:TRP:CG	30:U:265:LEU:HD11	2.39	0.57
29:T:139:ASP:HB2	29:T:142:LEU:HD12	1.86	0.57
32:W:17:ARG:O	32:W:18:ASN:CG	2.48	0.57
35:Z:52:LEU:HB3	35:Z:67:SER:OG	2.05	0.57
35:Z:124:MET:CE	35:Z:153:TYR:HA	2.32	0.57
35:Z:394:TYR:CG	35:Z:395:CYS:N	2.72	0.57
4:4:24:ILE:HG23	4:4:25:SER:HB3	1.86	0.57
4:4:69:ARG:HA	13:D:90:ARG:NH1	2.19	0.57
12:C:208:TYR:HB2	12:C:235:ILE:HG22	1.87	0.57
13:D:49:ARG:CG	13:D:203:VAL:HG13	2.33	0.57
16:G:108:ILE:HG22	16:G:148:TYR:CD1	2.38	0.57
17:H:367:ARG:HH21	22:M:225:GLY:HA2	1.69	0.57
19:J:301:ASP:N	19:J:304:LEU:CD1	2.61	0.57
20:K:350:ARG:NH2	26:Q:215:VAL:HG11	2.18	0.57
24:O:79:VAL:CG2	24:O:122:HIS:CB	2.82	0.57
24:O:137:TYR:HB2	24:O:149:LEU:HD13	1.86	0.57
27:R:72:VAL:HA	27:R:76:GLN:OE1	2.05	0.57
31:V:80:VAL:CG2	31:V:125:THR:HA	2.28	0.57
35:Z:407:VAL:CG1	35:Z:415:MET:HG3	2.34	0.57
35:Z:889:VAL:H	35:Z:894:MET:CE	2.18	0.57
1:1:124:TYR:CE1	1:1:142:PHE:CE2	2.93	0.57
2:2:187:LEU:HD13	2:2:190:TYR:CE1	2.40	0.57
6:6:9:GLU:HG2	6:6:11:PHE:CE1	2.39	0.57
7:7:33:ARG:NH2	7:7:52:MET:HE1	2.20	0.57
7:7:85:PHE:CE2	7:7:120:ARG:CZ	2.86	0.57
12:C:16:GLU:OE1	12:C:18:ARG:CZ	2.53	0.57
16:G:42:ASN:ND2	16:G:183:PRO:HG2	2.19	0.57
17:H:217:GLN:HG2	17:H:376:GLU:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O:79:VAL:HG21	24:O:123:GLY:H	1.69	0.57
24:O:369:ARG:HE	30:U:226:LEU:HD22	1.68	0.57
27:R:43:ARG:NE	27:R:70:TYR:OH	2.28	0.57
27:R:199:GLU:HB3	27:R:206:ARG:CZ	2.35	0.57
31:V:79:SER:CA	31:V:121:VAL:CG1	2.83	0.57
33:X:48:PHE:C	33:X:48:PHE:HD1	2.12	0.57
35:Z:185:ASP:CG	35:Z:186:GLY:N	2.63	0.57
35:Z:756:MET:HE3	35:Z:759:ARG:HE	1.68	0.57
35:Z:906:ALA:O	35:Z:909:ARG:NH1	2.34	0.57
3:3:44:ILE:HG12	3:3:98:PRO:CB	2.33	0.57
5:5:73:ARG:HH12	5:5:106:ARG:HD2	1.70	0.57
5:5:159:ARG:NH2	5:5:203:GLU:OE1	2.35	0.57
11:B:85:LEU:HD21	11:B:118:MET:CE	2.35	0.57
12:C:213:PHE:CZ	12:C:215:THR:CG2	2.88	0.57
17:H:318:ARG:NH1	17:H:364:ALA:HB3	2.18	0.57
24:O:276:LYS:O	24:O:277:ILE:CB	2.53	0.57
25:P:213:TYR:CE2	25:P:217:LYS:CE	2.88	0.57
26:Q:250:THR:CG2	26:Q:251:THR:H	2.14	0.57
27:R:176:ARG:HB2	27:R:243:LEU:CD1	2.34	0.57
28:S:323:LEU:HD23	28:S:383:LEU:HD23	1.85	0.57
30:U:283:ARG:NH2	31:V:283:THR:O	2.37	0.57
33:X:85:ARG:CZ	33:X:115:SER:HB2	2.34	0.57
1:1:78:ALA:O	1:1:82:PHE:CD2	2.58	0.57
1:1:148:LYS:HE3	1:1:177:VAL:HG11	1.87	0.57
6:6:73:LYS:HD3	14:E:150:ASP:OD2	2.05	0.57
8:8:329:ILE:CG2	17:H:163:VAL:HG21	2.34	0.57
14:E:84:ASP:OD1	14:E:136:ARG:NH2	2.26	0.57
16:G:137:PHE:CZ	16:G:148:TYR:HB2	2.40	0.57
17:H:420:ARG:CD	18:I:343:ARG:HH12	2.17	0.57
18:I:190:GLN:OE1	18:I:349:LEU:CD1	2.48	0.57
19:J:350:MET:SD	19:J:361:VAL:HG21	2.45	0.57
20:K:140:HIS:CE1	20:K:142:HIS:HB2	2.38	0.57
20:K:173:ASP:CB	20:K:221:MET:SD	2.92	0.57
20:K:363:ALA:HB1	20:K:364:PRO:HD2	1.86	0.57
22:M:183:VAL:HG12	22:M:186:LEU:HD12	1.87	0.57
22:M:372:ASP:O	22:M:373:ASP:OD1	2.23	0.57
23:N:277:LEU:HD12	23:N:287:LEU:HD23	1.86	0.57
24:O:4:ASN:HD21	24:O:30:GLU:HB3	1.69	0.57
24:O:79:VAL:HG21	24:O:122:HIS:CB	2.34	0.57
24:O:366:MET:HG2	30:U:226:LEU:HD13	1.85	0.57
27:R:101:GLU:O	27:R:105:LYS:HG3	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:R:259:PHE:CD1	27:R:259:PHE:C	2.82	0.57
27:R:263:ARG:HD3	27:R:296:LEU:CG	2.35	0.57
31:V:96:LYS:N	31:V:101:ASP:HB2	2.19	0.57
35:Z:394:TYR:CE2	35:Z:395:CYS:O	2.58	0.57
35:Z:422:ILE:HD11	35:Z:436:LEU:CD2	2.35	0.57
35:Z:433:LEU:CD1	35:Z:455:ILE:HG23	2.35	0.57
4:4:117:GLN:NE2	4:4:130:GLY:HA3	2.20	0.56
6:6:34:VAL:HG12	6:6:196:LEU:CD1	2.21	0.56
6:6:48:PHE:CZ	6:6:50:ALA:CB	2.88	0.56
11:B:65:SER:HB2	11:B:90:ARG:HH21	1.70	0.56
12:C:18:ARG:HH11	12:C:23:GLU:CD	2.08	0.56
16:G:73:ILE:CG1	16:G:108:ILE:HD13	2.33	0.56
16:G:122:HIS:NE2	16:G:128:VAL:HG11	2.20	0.56
21:L:253:ASP:HA	22:M:256:ILE:CG2	2.34	0.56
24:O:294:MET:SD	24:O:357:ILE:HG23	2.45	0.56
24:O:352:TRP:CH2	30:U:227:GLY:HA3	2.39	0.56
27:R:80:GLU:HG3	27:R:81:HIS:CD2	2.40	0.56
27:R:342:LEU:CG	27:R:392:ARG:HH21	2.17	0.56
28:S:223:LEU:HD21	28:S:230:LYS:HE2	1.86	0.56
32:W:10:ILE:HA	32:W:113:PHE:CD2	2.39	0.56
32:W:101:ARG:CZ	32:W:104:LYS:HA	2.33	0.56
33:X:16:GLU:CB	33:X:27:ILE:HB	2.33	0.56
33:X:32:GLU:HG3	33:X:53:THR:OG1	2.05	0.56
33:X:44:GLY:O	33:X:46:TRP:HD1	1.85	0.56
35:Z:169:VAL:HG22	35:Z:192:GLY:HA3	1.87	0.56
1:1:141:ASN:HB2	1:1:154:PHE:HE1	1.69	0.56
2:2:220:ILE:CD1	3:3:39:HIS:CE1	2.88	0.56
10:A:94:ALA:O	10:A:98:LYS:HG3	2.05	0.56
16:G:182:HIS:ND1	16:G:186:LEU:HG	2.19	0.56
19:J:350:MET:CG	19:J:386:VAL:HG13	2.35	0.56
22:M:75:LEU:HD21	22:M:77:TYR:HE1	1.68	0.56
23:N:588:VAL:HG12	23:N:620:GLY:O	2.04	0.56
24:O:250:TRP:CH2	24:O:270:ILE:CG2	2.79	0.56
26:Q:370:THR:O	26:Q:374:GLU:HG3	2.04	0.56
27:R:304:TYR:CZ	27:R:337:VAL:HG21	2.40	0.56
28:S:138:MET:HB3	28:S:179:ILE:HD11	1.87	0.56
29:T:25:LYS:O	29:T:28:PRO:HD2	2.05	0.56
30:U:92:TRP:CZ3	30:U:106:ILE:HG22	2.39	0.56
31:V:161:THR:HA	31:V:189:ILE:CD1	2.29	0.56
1:1:36:ARG:HB2	1:1:42:TRP:CH2	2.40	0.56
1:1:38:HIS:CE1	1:1:67:THR:OG1	2.59	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:140:SER:OG	2:2:141:HIS:CD2	2.59	0.56
3:3:60:TYR:CD1	12:C:96:GLN:CB	2.88	0.56
5:5:57:THR:HG22	14:E:101:LEU:CD1	2.35	0.56
5:5:66:HIS:CE1	5:5:70:GLU:OE2	2.58	0.56
8:8:430:TYR:HB3	8:8:494:TYR:HB3	1.87	0.56
10:A:57:LYS:CE	10:A:69:VAL:HB	2.35	0.56
11:B:82:TYR:CE1	11:B:134:LEU:CD2	2.89	0.56
12:C:4:ARG:HA	12:C:9:ARG:HH22	1.69	0.56
15:F:138:ASP:OD1	15:F:140:SER:HB2	2.05	0.56
15:F:166:GLN:CB	22:M:381:ARG:NH2	2.67	0.56
15:F:197:ILE:HG23	15:F:206:LEU:HD21	1.87	0.56
16:G:64:VAL:HG12	16:G:66:ILE:H	1.69	0.56
17:H:105:ILE:CD1	17:H:147:ILE:H	2.18	0.56
17:H:249:TYR:CE1	17:H:376:GLU:HA	2.40	0.56
18:I:167:MET:HG3	18:I:270:VAL:HG11	1.85	0.56
18:I:172:LYS:HD3	19:J:275:LEU:HD21	1.88	0.56
19:J:143:PRO:HD2	19:J:204:HIS:HA	1.88	0.56
20:K:169:VAL:HB	20:K:224:LYS:HD2	1.86	0.56
20:K:188:VAL:HA	20:K:313:LYS:HZ3	1.65	0.56
20:K:244:HIS:HE1	20:K:295:ILE:HD11	1.70	0.56
22:M:196:ALA:HB2	22:M:345:ARG:HE	1.70	0.56
22:M:221:TYR:HE1	22:M:346:LYS:HG3	1.67	0.56
23:N:28:ILE:O	23:N:32:VAL:HG22	2.02	0.56
23:N:326:SER:H	31:V:182:LYS:HG3	1.70	0.56
23:N:771:PHE:HE2	23:N:885:ILE:HB	1.69	0.56
24:O:117:ASN:HD22	24:O:167:ILE:CA	2.18	0.56
24:O:344:VAL:O	24:O:345:ASN:HB2	2.04	0.56
25:P:67:ALA:HB2	25:P:75:LEU:HD22	1.87	0.56
25:P:241:LEU:HB3	25:P:264:ILE:HD11	1.86	0.56
27:R:207:ARG:CZ	27:R:211:LYS:HZ1	2.19	0.56
27:R:296:LEU:CD1	27:R:337:VAL:HG23	2.20	0.56
31:V:159:ILE:HG23	31:V:164:LEU:HD12	1.87	0.56
33:X:95:GLU:HB3	33:X:97:TYR:CD1	2.40	0.56
35:Z:49:LEU:HD12	35:Z:55:ARG:NH1	2.20	0.56
35:Z:452:LEU:CD1	35:Z:485:ILE:HG23	2.33	0.56
35:Z:506:LEU:HD23	35:Z:506:LEU:C	2.30	0.56
35:Z:866:VAL:HA	35:Z:877:THR:CG2	2.35	0.56
4:4:95:ARG:HH21	5:5:92:GLY:CA	2.18	0.56
16:G:90:ARG:HH12	16:G:122:HIS:HE1	1.54	0.56
16:G:182:HIS:NE2	16:G:186:LEU:CD1	2.68	0.56
17:H:393:SER:HB2	17:H:404:TRP:CH2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:I:148:LEU:HD11	19:J:95:ILE:CG2	2.35	0.56
18:I:201:PRO:HG3	18:I:208:TYR:CZ	2.40	0.56
20:K:157:SER:C	21:L:256:ILE:HG22	2.31	0.56
20:K:248:GLY:HA2	20:K:251:PRO:CG	2.28	0.56
20:K:392:LEU:CG	20:K:396:ARG:HH12	2.18	0.56
21:L:370:LYS:HB2	21:L:374:PHE:CE1	2.39	0.56
24:O:277:ILE:HG22	24:O:278:PRO:HD2	1.83	0.56
25:P:369:LEU:CB	25:P:371:LEU:HD12	2.31	0.56
26:Q:85:MET:HE3	26:Q:93:THR:HA	1.87	0.56
28:S:462:ASP:O	28:S:465:ILE:HG22	2.04	0.56
29:T:211:PHE:HD2	29:T:217:THR:OG1	1.88	0.56
32:W:60:ARG:O	32:W:60:ARG:HD2	2.05	0.56
35:Z:64:TYR:HE1	35:Z:68:LEU:HD11	1.70	0.56
35:Z:481:PRO:O	35:Z:482:ASP:HB2	2.06	0.56
6:6:179:PHE:O	6:6:183:THR:HG23	2.05	0.56
11:B:119:GLN:CG	11:B:123:GLN:HE21	2.18	0.56
14:E:98:THR:O	14:E:102:TYR:CD1	2.55	0.56
14:E:98:THR:CG2	14:E:102:TYR:CE1	2.87	0.56
14:E:157:HIS:CB	14:E:170:LYS:HD3	2.36	0.56
15:F:179:PHE:CD1	15:F:188:GLU:HG3	2.40	0.56
17:H:191:ILE:HG22	17:H:191:ILE:O	2.04	0.56
19:J:67:GLU:HG2	20:K:144:ASN:HD22	1.70	0.56
23:N:433:THR:CG2	23:N:439:VAL:HG21	2.35	0.56
23:N:651:PHE:CG	23:N:740:TRP:HH2	2.23	0.56
24:O:80:LYS:HG2	24:O:81:TYR:CE2	2.41	0.56
24:O:269:LEU:HD23	24:O:269:LEU:C	2.30	0.56
24:O:339:GLY:O	24:O:340:SER:CB	2.53	0.56
24:O:358:ILE:HG23	24:O:359:SER:H	1.70	0.56
25:P:257:TRP:CZ3	25:P:290:LEU:HD11	2.40	0.56
26:Q:135:HIS:CA	26:Q:161:LEU:HD22	2.35	0.56
29:T:264:MET:HE2	31:V:295:VAL:CG1	2.34	0.56
32:W:149:GLN:HG2	32:W:152:GLU:HG3	1.88	0.56
35:Z:805:LEU:HB3	35:Z:893:PHE:CZ	2.41	0.56
2:2:220:ILE:HD11	3:3:39:HIS:CE1	2.40	0.56
3:3:78:PHE:HE2	3:3:100:VAL:HG22	1.70	0.56
6:6:52:GLY:O	6:6:56:VAL:HG23	2.05	0.56
15:F:146:GLU:OE2	15:F:148:GLN:NE2	2.39	0.56
19:J:253:ILE:HG12	19:J:255:SER:H	1.70	0.56
20:K:169:VAL:HB	20:K:224:LYS:CD	2.36	0.56
21:L:328:ASN:ND2	21:L:329:ARG:HG2	2.20	0.56
22:M:49:GLN:HG3	32:W:73:LEU:HD11	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O:186:ASN:HD21	24:O:226:LYS:HD2	1.71	0.56
25:P:286:ASN:O	25:P:293:LEU:CG	2.54	0.56
27:R:259:PHE:CG	27:R:329:PHE:CE1	2.94	0.56
27:R:382:ASP:OD2	28:S:402:ILE:HA	2.06	0.56
30:U:92:TRP:CE3	30:U:106:ILE:HG22	2.41	0.56
30:U:283:ARG:HD2	31:V:284:ALA:CB	2.36	0.56
32:W:70:GLY:O	32:W:73:LEU:HB2	2.06	0.56
33:X:69:ILE:HB	33:X:73:THR:HG23	1.86	0.56
35:Z:258:PRO:HB2	35:Z:259:PRO:CD	2.36	0.56
35:Z:812:ILE:HA	35:Z:815:MET:HE3	1.87	0.56
7:7:124:LEU:HD12	7:7:124:LEU:C	2.31	0.56
10:A:207:ILE:HG22	10:A:211:ILE:HD12	1.88	0.56
11:B:38:LYS:NZ	11:B:145:PHE:O	2.37	0.56
11:B:179:TRP:HE1	11:B:183:LEU:HB3	1.71	0.56
15:F:201:LEU:O	15:F:202:ARG:HG3	2.06	0.56
18:I:384:LYS:HG3	18:I:420:LYS:HD2	1.88	0.56
19:J:327:ILE:HG22	19:J:358:VAL:CG1	2.36	0.56
19:J:357:ASP:O	19:J:361:VAL:HG23	2.05	0.56
22:M:183:VAL:CG1	22:M:186:LEU:HD12	2.36	0.56
23:N:525:ASN:ND2	23:N:535:LEU:CD2	2.68	0.56
24:O:69:PHE:CZ	24:O:73:ILE:HG21	2.41	0.56
26:Q:88:PHE:HB3	26:Q:92:LYS:HD2	1.87	0.56
27:R:396:LYS:CG	27:R:400:TYR:HE2	2.19	0.56
28:S:232:MET:HE2	28:S:268:LEU:CD1	2.35	0.56
30:U:283:ARG:HH22	31:V:283:THR:CG2	2.14	0.56
2:2:185:GLU:HG2	11:B:225:THR:OG1	2.06	0.56
3:3:179:TYR:CE2	3:3:188:LYS:HD2	2.39	0.56
7:7:170:VAL:HG12	7:7:174:ARG:NH2	2.19	0.56
16:G:182:HIS:HB3	16:G:183:PRO:HD2	1.88	0.56
17:H:314:VAL:HG13	17:H:329:VAL:HG13	1.87	0.56
18:I:167:MET:HG2	18:I:171:MET:SD	2.45	0.56
19:J:200:ARG:CG	19:J:210:PHE:CZ	2.88	0.56
23:N:424:LYS:HG2	23:N:450:ILE:HD11	1.87	0.56
23:N:514:THR:HG21	23:N:546:LEU:HD12	1.87	0.56
24:O:277:ILE:CB	24:O:279:ILE:HB	2.36	0.56
25:P:177:ILE:HD12	25:P:216:LEU:HD13	1.86	0.56
26:Q:9:GLU:CD	26:Q:12:ARG:HH21	2.13	0.56
29:T:39:LEU:O	29:T:40:LEU:HG	2.05	0.56
30:U:98:LYS:HE2	30:U:122:ILE:HG22	1.87	0.56
31:V:69:PHE:C	31:V:108:TYR:OH	2.49	0.56
32:W:16:SER:HA	32:W:25:ARG:HD3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:X:93:SER:CB	33:X:96:ARG:HH21	2.19	0.56
35:Z:771:HIS:O	35:Z:775:MET:HG2	2.06	0.56
5:5:66:HIS:HE1	5:5:70:GLU:CD	2.14	0.56
5:5:120:THR:HG22	5:5:122:LEU:HG	1.87	0.56
8:8:212:GLU:HG2	9:9:42:ARG:CZ	2.34	0.56
12:C:207:THR:O	12:C:211:LEU:HG	2.05	0.56
17:H:338:THR:HG21	22:M:281:ASP:CG	2.31	0.56
17:H:430:ALA:HA	17:H:435:ARG:NE	2.21	0.56
19:J:200:ARG:HG3	19:J:210:PHE:CZ	2.40	0.56
24:O:250:TRP:CD1	24:O:269:LEU:O	2.59	0.56
24:O:258:LEU:HD21	24:O:287:LEU:HD11	1.87	0.56
24:O:258:LEU:HB3	24:O:291:ILE:HG13	1.87	0.56
24:O:277:ILE:HB	24:O:278:PRO:C	2.31	0.56
28:S:188:TYR:CE1	28:S:210:LEU:CD1	2.89	0.56
35:Z:96:TYR:HE1	35:Z:119:LEU:HD22	1.70	0.56
2:2:83:LEU:HD21	2:2:98:LEU:HD12	1.87	0.56
3:3:60:TYR:HA	12:C:96:GLN:OE1	2.05	0.56
6:6:176:ARG:HD2	6:6:208:TYR:CE2	2.41	0.56
10:A:36:ASN:HD21	10:A:140:ILE:CD1	2.19	0.56
10:A:174:LYS:HD3	10:A:214:LEU:HG	1.86	0.56
15:F:92:CYS:SG	15:F:103:LEU:HD23	2.46	0.56
16:G:182:HIS:CG	16:G:186:LEU:CG	2.86	0.56
17:H:167:ASP:OD2	17:H:183:ILE:HD12	2.06	0.56
17:H:276:GLY:O	17:H:314:VAL:HG21	2.06	0.56
18:I:362:LEU:HD21	18:I:377:LEU:CD2	2.36	0.56
20:K:90:GLN:NE2	20:K:143:SER:OG	2.35	0.56
21:L:358:LEU:HD12	21:L:376:PHE:HB3	1.87	0.56
23:N:36:TRP:HB3	23:N:71:ASN:HD22	1.71	0.56
23:N:122:GLN:HA	23:N:124:TYR:CE2	2.40	0.56
23:N:246:LYS:NZ	23:N:280:GLN:HB2	2.21	0.56
25:P:260:VAL:O	25:P:264:ILE:HG13	2.05	0.56
26:Q:99:THR:HG22	26:Q:103:LYS:HG2	1.86	0.56
31:V:111:HIS:HD2	31:V:140:VAL:HG21	1.71	0.56
35:Z:737:ALA:O	35:Z:775:MET:HE2	2.06	0.56
2:2:8:PHE:CE2	2:2:11:GLY:N	2.74	0.55
11:B:37:ILE:HD11	11:B:175:LEU:HD22	1.88	0.55
14:E:157:HIS:HB3	14:E:170:LYS:HZ3	1.71	0.55
16:G:86:HIS:NE2	16:G:90:ARG:NH2	2.53	0.55
16:G:182:HIS:NE2	16:G:186:LEU:HD11	2.21	0.55
16:G:215:ILE:HG23	16:G:230:VAL:CB	2.18	0.55
17:H:428:MET:CE	17:H:431:ILE:HD12	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:L:283:VAL:HG11	21:L:325:MET:CE	2.35	0.55
23:N:596:LEU:HD11	23:N:717:LEU:HD22	1.89	0.55
24:O:30:GLU:OE1	24:O:40:GLN:CD	2.48	0.55
24:O:66:VAL:HG12	24:O:106:PHE:CZ	2.41	0.55
27:R:194:VAL:HG13	27:R:206:ARG:NH2	2.20	0.55
27:R:404:VAL:HG22	30:U:278:ILE:HG12	1.88	0.55
28:S:159:ASN:CB	28:S:187:ILE:CD1	2.84	0.55
29:T:163:LEU:HD13	29:T:163:LEU:C	2.31	0.55
29:T:193:THR:HB	29:T:226:TRP:CZ2	2.40	0.55
30:U:19:LEU:HD11	31:V:208:LYS:HB3	1.88	0.55
30:U:97:PRO:HG2	30:U:100:ARG:HH21	1.70	0.55
35:Z:440:LEU:HD21	35:Z:477:TYR:OH	2.06	0.55
2:2:99:ILE:HG13	2:2:127:LEU:HD12	1.87	0.55
4:4:81:SER:HA	4:4:124:LYS:NZ	2.21	0.55
7:7:145:PRO:CB	7:7:148:ARG:HH21	2.18	0.55
8:8:212:GLU:CD	9:9:72:ARG:HG2	2.31	0.55
12:C:42:ASP:HA	12:C:218:LYS:HZ3	1.69	0.55
16:G:116:GLY:O	16:G:120:GLN:HG3	2.06	0.55
19:J:115:LEU:HB2	19:J:122:LEU:CD2	2.33	0.55
19:J:375:ILE:HB	27:R:204:TRP:CD2	2.41	0.55
24:O:119:SER:HB2	24:O:166:ARG:CD	2.34	0.55
25:P:177:ILE:HG23	25:P:203:ILE:HD11	1.88	0.55
25:P:283:LYS:HB3	25:P:286:ASN:CB	2.36	0.55
26:Q:426:LEU:HD23	26:Q:426:LEU:C	2.31	0.55
27:R:71:LEU:HG	27:R:72:VAL:HG23	1.87	0.55
27:R:177:LEU:HB2	27:R:190:LYS:NZ	2.21	0.55
27:R:207:ARG:NH2	27:R:211:LYS:HZ1	2.04	0.55
28:S:256:LYS:HD2	28:S:259:TYR:OH	2.06	0.55
29:T:39:LEU:O	29:T:40:LEU:HB2	2.05	0.55
30:U:35:GLY:C	30:U:93:TYR:CB	2.77	0.55
30:U:38:LEU:CD1	30:U:87:GLU:HG2	2.37	0.55
32:W:7:VAL:O	32:W:110:ILE:HD12	2.05	0.55
10:A:12:TYR:HB2	10:A:15:HIS:HD2	1.72	0.55
24:O:137:TYR:HB2	24:O:149:LEU:CD1	2.37	0.55
24:O:223:LEU:C	24:O:279:ILE:HG21	2.31	0.55
25:P:76:ASN:ND2	25:P:118:VAL:HG21	2.17	0.55
25:P:286:ASN:O	25:P:293:LEU:CD2	2.53	0.55
26:Q:51:ARG:HA	26:Q:54:GLN:HB3	1.89	0.55
26:Q:291:TYR:OH	26:Q:293:SER:HB3	2.07	0.55
35:Z:318:LYS:HZ1	35:Z:459:ALA:HB1	1.69	0.55
35:Z:392:LEU:HG	35:Z:428:TRP:CZ3	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:Z:889:VAL:HG22	35:Z:891:PRO:CD	2.35	0.55
2:2:152:ILE:HD11	2:2:177:VAL:HG21	1.88	0.55
3:3:69:GLU:OE2	11:B:109:LEU:HD22	2.06	0.55
3:3:179:TYR:CE2	3:3:188:LYS:CD	2.90	0.55
10:A:150:LEU:CD2	10:A:155:TYR:OH	2.55	0.55
16:G:81:ILE:HB	16:G:82:PRO:HD3	1.89	0.55
22:M:170:MET:HG2	22:M:246:LEU:HD13	1.87	0.55
27:R:60:ALA:HB3	27:R:102:LEU:CD2	2.36	0.55
28:S:159:ASN:CB	28:S:187:ILE:HD13	2.37	0.55
28:S:186:TYR:HH	28:S:309:PHE:HZ	1.51	0.55
29:T:245:TYR:O	29:T:246:GLU:CB	2.51	0.55
35:Z:169:VAL:CG2	35:Z:192:GLY:HA3	2.36	0.55
4:4:60:GLN:HE21	4:4:64:GLN:NE2	2.04	0.55
5:5:7:ARG:HG3	5:5:110:PRO:HB2	1.87	0.55
10:A:239:GLU:O	10:A:243:GLU:HG3	2.06	0.55
12:C:144:TYR:HB2	12:C:147:GLN:NE2	2.22	0.55
23:N:91:ILE:HD12	23:N:140:MET:SD	2.46	0.55
24:O:83:LEU:HD13	24:O:128:LEU:HD22	1.85	0.55
24:O:344:VAL:HB	25:P:361:THR:CG2	2.35	0.55
26:Q:178:HIS:HB3	26:Q:201:ALA:HB2	1.89	0.55
28:S:465:ILE:HG13	29:T:266:TYR:CE2	2.39	0.55
29:T:82:PHE:CZ	29:T:109:TYR:CG	2.87	0.55
32:W:29:GLN:O	32:W:32:SER:HB3	2.06	0.55
33:X:100:TRP:CZ2	33:X:110:PRO:HG3	2.37	0.55
35:Z:551:LEU:CD1	35:Z:591:ILE:HG23	2.35	0.55
1:1:45:ARG:NH2	1:1:52:THR:OG1	2.39	0.55
4:4:149:PRO:O	4:4:150:ASP:CB	2.52	0.55
11:B:27:ALA:CA	20:K:426:PHE:CE1	2.85	0.55
11:B:65:SER:HB2	11:B:90:ARG:NH2	2.22	0.55
18:I:113:ILE:HD11	18:I:119:ILE:HB	1.89	0.55
19:J:333:ARG:NH1	19:J:343:LEU:HD11	2.04	0.55
20:K:153:ASP:HB2	21:L:110:LYS:NZ	2.22	0.55
22:M:197:ILE:O	22:M:200:PRO:HD2	2.07	0.55
23:N:758:VAL:HB	23:N:874:ILE:HD13	1.87	0.55
24:O:233:LEU:HD23	24:O:236:HIS:CE1	2.40	0.55
25:P:213:TYR:CD2	25:P:217:LYS:HE2	2.41	0.55
27:R:312:TYR:CD2	34:Y:73:PHE:HD1	2.25	0.55
28:S:185:PHE:CE1	28:S:239:ARG:NH1	2.75	0.55
28:S:188:TYR:CZ	28:S:210:LEU:CD2	2.88	0.55
29:T:46:ILE:HD13	29:T:94:HIS:NE2	2.21	0.55
30:U:21:HIS:ND1	30:U:53:ALA:HB2	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U:66:TRP:CH2	30:U:109:LEU:CD1	2.88	0.55
30:U:92:TRP:CD1	30:U:120:LEU:HA	2.42	0.55
30:U:109:LEU:CD2	32:W:60:ARG:HB2	2.36	0.55
33:X:40:GLU:C	33:X:41:GLU:HG2	2.31	0.55
35:Z:348:LEU:CD1	35:Z:921:GLU:HG2	2.33	0.55
8:8:282:GLU:OE2	9:9:66:THR:HG23	2.06	0.55
12:C:68:LYS:CG	12:C:229:ILE:HD11	2.36	0.55
16:G:108:ILE:HG21	16:G:148:TYR:CD1	2.42	0.55
18:I:380:LEU:HD23	18:I:420:LYS:NZ	2.22	0.55
22:M:225:GLY:O	22:M:226:THR:HG23	2.05	0.55
25:P:234:TYR:HD2	25:P:267:PHE:CG	2.25	0.55
29:T:126:LEU:HD21	29:T:136:LEU:HD21	1.89	0.55
32:W:180:LEU:O	32:W:183:GLU:HB2	2.06	0.55
35:Z:195:PHE:HB3	35:Z:197:LYS:NZ	2.22	0.55
35:Z:361:HIS:CE1	35:Z:861:THR:O	2.60	0.55
35:Z:829:GLN:HG2	35:Z:832:ARG:NH2	2.21	0.55
1:1:80:SER:CB	16:G:103:LYS:CG	2.85	0.55
11:B:12:PHE:HZ	12:C:129:ARG:HH21	1.52	0.55
18:I:121:THR:CA	18:I:127:ASP:OD1	2.45	0.55
18:I:171:MET:HE1	18:I:270:VAL:HB	1.89	0.55
18:I:175:LYS:O	19:J:282:PHE:CD1	2.56	0.55
24:O:26:PHE:HA	24:O:61:LEU:CD2	2.34	0.55
24:O:58:ARG:HD2	24:O:58:ARG:O	2.07	0.55
24:O:107:GLN:O	24:O:107:GLN:HG2	2.07	0.55
24:O:377:VAL:O	30:U:193:GLN:NE2	2.34	0.55
26:Q:85:MET:HE2	26:Q:93:THR:CG2	2.37	0.55
27:R:286:LEU:HD23	27:R:289:ILE:CD1	2.28	0.55
28:S:471:LEU:HD13	30:U:288:PHE:CE2	2.41	0.55
29:T:155:GLY:O	29:T:156:SER:OG	2.22	0.55
30:U:133:PRO:HD3	31:V:212:MET:SD	2.47	0.55
31:V:117:TRP:CZ2	31:V:196:TYR:HB3	2.35	0.55
35:Z:551:LEU:HD11	35:Z:591:ILE:CG2	2.31	0.55
2:2:50:ALA:HB2	3:3:120:CYS:SG	2.47	0.55
15:F:65:LYS:HB2	15:F:222:PHE:CE2	2.42	0.55
16:G:203:HIS:CE1	16:G:211:PHE:CD1	2.91	0.55
17:H:280:VAL:HG11	18:I:304:ARG:CZ	2.37	0.55
19:J:166:LEU:CB	19:J:174:PHE:HZ	2.19	0.55
20:K:93:PRO:HB3	21:L:153:LEU:HB2	1.89	0.55
20:K:254:VAL:HG13	20:K:299:LEU:CD2	2.36	0.55
24:O:341:ILE:CG1	24:O:348:VAL:HA	2.33	0.55
25:P:429:ILE:HG23	30:U:203:LYS:HD3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U:92:TRP:HE3	30:U:110:PHE:HE2	1.54	0.55
33:X:66:LEU:HD11	33:X:97:TYR:CB	2.28	0.55
33:X:125:MET:O	33:X:128:VAL:HG22	2.07	0.55
1:1:176:VAL:HG12	1:1:183:VAL:HG13	1.88	0.55
10:A:234:PHE:HE2	10:A:236:LEU:HD21	1.71	0.55
11:B:38:LYS:HE3	11:B:145:PHE:HB2	1.89	0.55
13:D:159:TRP:CE3	14:E:59:LEU:CD1	2.90	0.55
14:E:98:THR:HG22	14:E:102:TYR:CE1	2.42	0.55
17:H:167:ASP:CG	17:H:168:ILE:N	2.65	0.55
18:I:244:PHE:HE1	18:I:246:ARG:CZ	2.20	0.55
19:J:166:LEU:HB2	19:J:167:PRO:HD3	1.88	0.55
22:M:415:PHE:HE1	22:M:419:ILE:HD11	1.70	0.55
23:N:155:GLY:O	23:N:159:GLU:HG3	2.07	0.55
23:N:399:PHE:HD1	23:N:441:VAL:CG2	1.90	0.55
24:O:203:THR:O	24:O:204:SER:CB	2.54	0.55
25:P:221:TYR:OH	25:P:244:ILE:HB	2.06	0.55
26:Q:98:LYS:O	26:Q:140:LYS:NZ	2.40	0.55
26:Q:351:ILE:HD12	26:Q:386:PHE:CE1	2.41	0.55
29:T:197:TYR:CE1	29:T:199:PHE:CA	2.89	0.55
29:T:197:TYR:HD1	29:T:198:ASP:N	1.60	0.55
30:U:66:TRP:N	32:W:93:ILE:HD11	2.22	0.55
4:4:147:TYR:HE1	4:4:151:MET:HB2	1.72	0.54
8:8:241:ILE:HD13	9:9:64:GLU:OE1	2.08	0.54
12:C:160:TRP:CE2	12:C:163:ILE:CD1	2.86	0.54
15:F:215:ILE:CG1	15:F:220:THR:HG21	2.37	0.54
17:H:280:VAL:CG2	18:I:304:ARG:CD	2.73	0.54
22:M:44:PHE:CE2	24:O:110:ASP:O	2.59	0.54
23:N:420:THR:HG22	23:N:424:LYS:HZ2	1.71	0.54
23:N:549:TYR:CE2	23:N:586:ALA:HB2	2.42	0.54
23:N:666:GLN:NE2	23:N:712:ASN:HA	2.22	0.54
23:N:774:ASN:ND2	23:N:885:ILE:HD11	2.21	0.54
24:O:48:PHE:CD1	24:O:81:TYR:HE2	2.24	0.54
24:O:80:LYS:HG2	24:O:81:TYR:CD2	2.42	0.54
24:O:370:LEU:HD11	30:U:207:VAL:CG2	2.33	0.54
27:R:422:ARG:NH2	28:S:299:LYS:CB	2.70	0.54
30:U:173:HIS:HE1	31:V:151:VAL:H	1.55	0.54
30:U:283:ARG:CZ	31:V:283:THR:O	2.55	0.54
31:V:127:LYS:NZ	31:V:194:ARG:NH2	2.55	0.54
1:1:122:LEU:CD1	7:7:28:PHE:CD1	2.81	0.54
5:5:104:TYR:C	5:5:104:TYR:CD1	2.86	0.54
10:A:183:GLU:O	10:A:187:LYS:HG3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:B:139:HIS:CE1	11:B:145:PHE:CZ	2.92	0.54
11:B:142:PHE:O	11:B:143:ASN:OD1	2.24	0.54
14:E:110:GLU:CG	14:E:164:PHE:HE2	2.09	0.54
18:I:362:LEU:CG	18:I:377:LEU:HD22	2.38	0.54
19:J:89:GLN:N	19:J:90:PRO:CD	2.70	0.54
19:J:131:ASP:H	19:J:132:PRO:CD	2.20	0.54
23:N:483:LEU:HD21	23:N:519:VAL:HB	1.89	0.54
23:N:771:PHE:CE2	23:N:885:ILE:HB	2.43	0.54
24:O:366:MET:CE	30:U:226:LEU:CD1	2.85	0.54
28:S:147:TRP:O	28:S:148:ASP:HB2	2.07	0.54
30:U:233:PHE:CE1	30:U:260:ASN:HB2	2.42	0.54
35:Z:830:LEU:O	35:Z:834:LEU:HG	2.07	0.54
6:6:14:LEU:CD2	6:6:34:VAL:HG13	2.31	0.54
6:6:61:ASN:O	6:6:65:TRP:CD1	2.61	0.54
10:A:195:ASN:C	10:A:196:GLU:HG2	2.29	0.54
14:E:179:ALA:O	14:E:183:LEU:HG	2.08	0.54
17:H:62:ARG:HG3	18:I:133:LEU:HD11	1.89	0.54
19:J:219:VAL:HB	20:K:284:ALA:HA	1.83	0.54
20:K:422:ASP:OD2	20:K:428:LYS:HD3	2.08	0.54
21:L:252:VAL:CG1	22:M:256:ILE:HD13	1.92	0.54
22:M:385:GLU:HB2	22:M:426:LYS:HZ3	1.59	0.54
23:N:94:LYS:HE3	23:N:143:LYS:NZ	2.23	0.54
23:N:433:THR:HG22	23:N:439:VAL:HG21	1.89	0.54
23:N:573:HIS:O	23:N:576:VAL:HG12	2.07	0.54
24:O:222:LEU:HD22	24:O:270:ILE:CD1	2.35	0.54
25:P:289:ASN:O	25:P:293:LEU:HD13	2.07	0.54
25:P:429:ILE:CG2	30:U:203:LYS:HD3	2.37	0.54
28:S:241:PHE:CZ	28:S:253:PHE:CE2	2.95	0.54
29:T:209:LEU:HD13	29:T:211:PHE:CE2	2.42	0.54
31:V:133:ASN:O	31:V:134:SER:HB3	2.07	0.54
31:V:154:ASP:CB	31:V:156:PHE:HE1	2.19	0.54
35:Z:491:LEU:HD22	35:Z:903:MET:SD	2.47	0.54
3:3:75:PRO:HB3	3:3:111:PHE:HD2	1.73	0.54
3:3:98:PRO:HG2	3:3:115:PHE:HB2	1.89	0.54
4:4:139:THR:O	4:4:143:LEU:HG	2.06	0.54
4:4:167:LEU:HD22	4:4:171:MET:CE	2.38	0.54
15:F:145:LEU:HD23	15:F:146:GLU:N	2.22	0.54
15:F:166:GLN:C	22:M:381:ARG:HH21	2.15	0.54
16:G:140:VAL:HG23	16:G:220:LEU:HD21	1.78	0.54
17:H:224:VAL:O	17:H:228:PRO:HG3	2.07	0.54
19:J:81:ASP:O	19:J:82:LYS:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J:183:LYS:C	19:J:276:LEU:HD13	2.32	0.54
20:K:141:ARG:NH1	21:L:153:LEU:CD1	2.71	0.54
22:M:197:ILE:HB	22:M:322:LYS:HD3	1.89	0.54
23:N:214:LEU:CD1	23:N:217:MET:CE	2.79	0.54
25:P:308:LEU:HD13	25:P:345:VAL:CG2	2.36	0.54
26:Q:272:LEU:HD21	26:Q:274:LEU:HD11	1.90	0.54
27:R:174:ILE:CB	27:R:190:LYS:HD3	2.29	0.54
28:S:436:ILE:HD12	28:S:438:HIS:CD2	2.41	0.54
32:W:159:ALA:HA	32:W:162:ASN:ND2	2.21	0.54
33:X:16:GLU:CD	33:X:27:ILE:HG21	2.33	0.54
33:X:85:ARG:NH2	33:X:115:SER:CB	2.70	0.54
35:Z:752:ILE:O	35:Z:755:GLU:HB2	2.07	0.54
2:2:142:TRP:NE1	2:2:145:ASP:H	2.06	0.54
7:7:106:ILE:HB	7:7:122:VAL:CG1	2.37	0.54
10:A:234:PHE:HE2	10:A:236:LEU:CD2	2.21	0.54
13:D:70:HIS:CD2	13:D:138:PHE:O	2.53	0.54
14:E:241:LYS:HA	14:E:244:LYS:HZ3	1.71	0.54
21:L:111:GLU:HG2	21:L:117:TYR:CE2	2.43	0.54
23:N:15:GLU:O	23:N:16:ASN:HB3	2.07	0.54
24:O:41:LEU:HG	24:O:43:GLU:H	1.72	0.54
24:O:377:VAL:HG21	30:U:200:LEU:CD1	2.37	0.54
26:Q:311:LEU:HD11	26:Q:366:ILE:HD11	1.90	0.54
27:R:158:LEU:HD13	27:R:170:VAL:CG2	2.38	0.54
27:R:187:VAL:O	27:R:213:TYR:OH	2.17	0.54
29:T:110:LEU:HD22	29:T:122:PHE:CE1	2.42	0.54
29:T:193:THR:HB	29:T:226:TRP:HH2	1.57	0.54
30:U:9:THR:HB	30:U:162:GLU:HB3	1.89	0.54
31:V:24:LYS:NZ	31:V:197:TYR:CZ	2.74	0.54
33:X:38:ASN:HD21	33:X:47:ASP:HB2	1.72	0.54
35:Z:331:GLY:HA3	35:Z:346:LEU:HD13	1.89	0.54
35:Z:357:ILE:HG23	35:Z:960:GLY:CA	2.36	0.54
35:Z:812:ILE:HA	35:Z:815:MET:CE	2.37	0.54
35:Z:985:LYS:HB2	35:Z:991:GLU:CD	2.33	0.54
1:1:34:LEU:HD13	1:1:176:VAL:HG23	1.89	0.54
10:A:207:ILE:CG2	10:A:211:ILE:CD1	2.84	0.54
11:B:139:HIS:ND1	11:B:145:PHE:CD2	2.71	0.54
13:D:188:VAL:HG21	13:D:216:LYS:CE	2.37	0.54
15:F:145:LEU:HD11	15:F:153:VAL:HG11	1.90	0.54
17:H:207:THR:HG22	17:H:208:TYR:CD2	2.41	0.54
18:I:380:LEU:CD1	18:I:416:PHE:HB3	2.38	0.54
20:K:300:LEU:HA	20:K:333:ARG:NH1	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:L:169:ASN:O	21:L:170:MET:HB2	2.07	0.54
27:R:389:GLU:OE2	28:S:399:TYR:HE1	1.90	0.54
29:T:97:SER:OG	29:T:98:GLU:HG3	2.08	0.54
32:W:60:ARG:CZ	32:W:62:LEU:HD21	2.38	0.54
32:W:123:ASP:HB3	32:W:127:ARG:HH12	1.72	0.54
35:Z:741:LEU:HD22	35:Z:782:ILE:CD1	2.36	0.54
1:1:114:PRO:HG2	1:1:118:SER:HB3	1.89	0.54
5:5:6:PHE:HZ	5:5:13:ILE:HG13	1.68	0.54
6:6:175:VAL:HG12	6:6:179:PHE:CE2	2.42	0.54
14:E:143:LEU:CD2	14:E:157:HIS:ND1	2.71	0.54
17:H:174:VAL:HG13	17:H:183:ILE:CG1	2.28	0.54
18:I:170:VAL:HG23	18:I:171:MET:HG3	1.88	0.54
18:I:194:ILE:CG2	18:I:236:VAL:HG21	2.37	0.54
20:K:244:HIS:HE1	20:K:250:GLY:HA3	1.60	0.54
24:O:103:LYS:O	24:O:129:ILE:CD1	2.55	0.54
24:O:343:GLN:HB3	25:P:360:ILE:HG22	1.90	0.54
27:R:191:LEU:CA	27:R:213:TYR:HE2	2.21	0.54
28:S:171:TYR:HE2	28:S:176:LEU:HA	1.72	0.54
29:T:190:ALA:HB1	29:T:224:ARG:HD3	1.90	0.54
31:V:83:VAL:HG11	31:V:107:TRP:CH2	2.42	0.54
35:Z:318:LYS:HG2	35:Z:496:ALA:O	2.07	0.54
2:2:37:ILE:HG22	2:2:63:ILE:HG21	1.89	0.54
4:4:80:SER:HB2	4:4:124:LYS:CD	2.20	0.54
15:F:80:ASP:OD2	15:F:126:ARG:NH1	2.39	0.54
18:I:124:THR:O	18:I:125:MET:HB2	2.08	0.54
19:J:160:ILE:CD1	19:J:314:ILE:HG21	2.37	0.54
21:L:253:ASP:HA	22:M:256:ILE:HG13	1.85	0.54
21:L:267:PHE:CZ	21:L:311:GLN:NE2	2.76	0.54
22:M:171:GLU:O	22:M:244:LEU:HD12	2.08	0.54
23:N:70:TYR:HE2	28:S:219:LYS:CD	2.20	0.54
23:N:414:GLY:HA3	23:N:728:LYS:HZ3	1.72	0.54
25:P:181:LEU:HG	25:P:223:LEU:CD1	2.38	0.54
27:R:320:LYS:O	27:R:324:ARG:HG3	2.08	0.54
28:S:185:PHE:CD1	28:S:239:ARG:HD2	2.42	0.54
32:W:98:LEU:HD11	32:W:108:GLN:HG3	1.90	0.54
32:W:147:ILE:O	32:W:147:ILE:CG2	2.47	0.54
33:X:24:CYS:HB2	33:X:79:LYS:O	2.08	0.54
35:Z:737:ALA:HB2	35:Z:771:HIS:CE1	2.43	0.54
6:6:1:GLY:C	6:6:46:ASN:HD21	2.15	0.54
12:C:39:MET:HE1	13:D:56:ASP:OD2	2.07	0.54
15:F:145:LEU:CD2	15:F:153:VAL:HG13	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:K:156:SER:OG	20:K:249:GLU:HB3	2.08	0.54
20:K:300:LEU:C	20:K:333:ARG:HH22	2.15	0.54
20:K:342:SER:OG	20:K:343:LEU:HG	2.08	0.54
20:K:353:PHE:HD1	20:K:387:MET:CG	2.21	0.54
21:L:132:ARG:CZ	21:L:156:MET:HG3	2.35	0.54
21:L:204:PRO:HG3	21:L:320:GLN:NE2	2.23	0.54
21:L:206:ILE:HG12	21:L:209:ARG:HH22	1.73	0.54
22:M:43:ILE:HG21	32:W:26:PHE:CE2	2.42	0.54
24:O:366:MET:CE	30:U:226:LEU:HD13	2.38	0.54
25:P:425:HIS:HE1	30:U:228:LYS:HB2	1.72	0.54
27:R:312:TYR:HE2	34:Y:73:PHE:HB2	1.72	0.54
31:V:117:TRP:CE3	31:V:123:VAL:HG22	2.43	0.54
32:W:11:ASP:OD1	32:W:12:ASN:N	2.34	0.54
35:Z:970:TYR:CZ	35:Z:993:GLU:HB2	2.43	0.54
13:D:113:VAL:HG11	13:D:135:ILE:HD11	1.90	0.54
14:E:157:HIS:CB	14:E:170:LYS:HZ3	2.21	0.54
15:F:154:THR:HG22	15:F:156:LEU:CD1	2.38	0.54
20:K:99:PHE:CZ	20:K:102:PRO:N	2.76	0.54
20:K:364:PRO:HB2	26:Q:247:HIS:NE2	2.22	0.54
21:L:197:ILE:O	21:L:322:LYS:HE3	2.08	0.54
23:N:641:LEU:HB3	23:N:660:LEU:HD21	1.90	0.54
24:O:277:ILE:CG2	24:O:278:PRO:N	2.48	0.54
26:Q:418:GLN:HB3	31:V:262:THR:HG21	1.90	0.54
27:R:404:VAL:CG2	30:U:278:ILE:HD11	2.38	0.54
1:1:176:VAL:CG1	1:1:178:LEU:HD21	2.37	0.53
5:5:45:MET:HE1	5:5:53:GLN:OE1	2.08	0.53
8:8:206:LYS:NZ	9:9:74:ARG:CD	2.71	0.53
10:A:142:THR:OG1	10:A:156:LYS:HE2	2.07	0.53
14:E:231:TYR:CZ	14:E:235:LYS:HB3	2.42	0.53
20:K:152:PRO:CB	20:K:259:ARG:HD2	2.38	0.53
20:K:346:ARG:HE	20:K:372:ILE:CG2	2.16	0.53
26:Q:299:MET:SD	26:Q:335:PHE:CZ	2.99	0.53
27:R:238:PHE:CD2	27:R:244:THR:HG21	2.42	0.53
31:V:52:LEU:HD11	31:V:107:TRP:HZ3	1.66	0.53
35:Z:54:GLU:O	35:Z:57:LYS:HB3	2.08	0.53
35:Z:193:PHE:CD2	35:Z:196:SER:CA	2.91	0.53
3:3:96:VAL:H	3:3:117:LEU:HG	1.73	0.53
5:5:33:ARG:HH11	5:5:46:ALA:HB2	1.72	0.53
7:7:48:ASP:CG	7:7:103:TRP:CD1	2.86	0.53
15:F:91:GLN:NE2	15:F:115:LYS:NZ	2.56	0.53
18:I:194:ILE:HG21	18:I:236:VAL:HG21	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:K:379:SER:OG	20:K:382:VAL:HG23	2.07	0.53
22:M:277:ILE:HG21	22:M:324:LEU:HD12	1.90	0.53
23:N:89:PHE:HE1	23:N:101:ILE:HD11	1.73	0.53
23:N:322:ASP:HB2	23:N:689:LYS:HZ2	1.70	0.53
24:O:283:HIS:CD2	24:O:287:LEU:HD12	2.39	0.53
25:P:234:TYR:CG	25:P:267:PHE:CZ	2.96	0.53
25:P:306:ASN:HD22	25:P:310:ARG:HD3	1.73	0.53
27:R:304:TYR:CD1	27:R:308:LEU:HD11	2.39	0.53
31:V:80:VAL:HG23	31:V:125:THR:CA	2.29	0.53
35:Z:495:ILE:HD12	35:Z:906:ALA:HB2	1.91	0.53
1:1:78:ALA:O	1:1:82:PHE:HD2	1.90	0.53
10:A:19:PHE:HZ	11:B:128:ARG:HH12	1.51	0.53
11:B:12:PHE:CE2	11:B:18:LEU:HD21	2.43	0.53
13:D:171:VAL:O	13:D:175:LEU:HG	2.08	0.53
13:D:203:VAL:C	13:D:204:GLN:CD	2.76	0.53
18:I:137:ASP:O	18:I:141:LEU:HG	2.08	0.53
18:I:172:LYS:HA	19:J:231:ARG:CZ	2.37	0.53
19:J:37:LYS:CE	20:K:58:TYR:CE1	2.92	0.53
19:J:133:LEU:HD23	19:J:137:MET:HE1	1.88	0.53
20:K:262:ARG:NH1	20:K:311:ASN:CG	2.66	0.53
21:L:269:TYR:CZ	21:L:273:HIS:CE1	2.95	0.53
22:M:357:ARG:HH22	22:M:385:GLU:N	2.06	0.53
24:O:277:ILE:HG21	24:O:279:ILE:HB	1.79	0.53
24:O:300:VAL:CG1	24:O:301:PHE:CD2	2.85	0.53
24:O:373:TRP:HE1	30:U:200:LEU:HD21	1.67	0.53
27:R:214:TYR:CZ	27:R:218:CYS:SG	3.01	0.53
30:U:18:ALA:HB2	30:U:93:TYR:HE2	1.73	0.53
30:U:92:TRP:HE1	30:U:120:LEU:HB2	1.73	0.53
35:Z:312:TYR:CZ	35:Z:348:LEU:CA	2.91	0.53
35:Z:460:SER:HB2	35:Z:495:ILE:HG22	1.90	0.53
35:Z:610:GLY:CA	35:Z:748:LEU:CD1	2.52	0.53
1:1:18:SER:OG	1:1:33:LYS:HG2	2.08	0.53
3:3:60:TYR:CD1	12:C:96:GLN:HG3	2.43	0.53
8:8:206:LYS:NZ	9:9:74:ARG:HD3	2.23	0.53
8:8:207:GLN:C	9:9:75:GLY:H	2.16	0.53
9:9:63:LYS:O	9:9:64:GLU:HB2	2.09	0.53
20:K:243:VAL:O	20:K:243:VAL:HG12	2.09	0.53
24:O:185:PHE:CE1	24:O:279:ILE:HG13	2.44	0.53
24:O:250:TRP:CG	24:O:270:ILE:HG12	2.41	0.53
24:O:337:LEU:HB3	24:O:350:ILE:HG21	1.91	0.53
26:Q:99:THR:CG2	26:Q:103:LYS:CE	2.86	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Q:258:ALA:O	26:Q:261:VAL:HG12	2.08	0.53
28:S:212:SER:O	28:S:216:LYS:HG3	2.08	0.53
28:S:371:LEU:HD13	28:S:380:CYS:HG	1.67	0.53
29:T:197:TYR:CG	29:T:198:ASP:N	2.44	0.53
33:X:41:GLU:HG3	33:X:45:PHE:C	2.33	0.53
35:Z:218:GLU:HB3	35:Z:248:TYR:CZ	2.35	0.53
12:C:194:LEU:HA	12:C:197:LEU:HD12	1.91	0.53
16:G:86:HIS:HD2	16:G:131:PHE:HZ	1.55	0.53
17:H:147:ILE:HD11	17:H:157:VAL:HB	1.91	0.53
20:K:171:TYR:CE2	20:K:225:ALA:HB1	2.44	0.53
20:K:200:GLN:O	27:R:204:TRP:CZ2	2.62	0.53
21:L:161:ARG:HH12	21:L:264:ARG:NH2	2.06	0.53
22:M:75:LEU:CD2	22:M:77:TYR:CE1	2.85	0.53
23:N:28:ILE:HG21	23:N:64:ILE:HD13	1.91	0.53
23:N:877:GLN:OE1	23:N:880:ARG:NH2	2.42	0.53
25:P:257:TRP:CZ2	25:P:261:LEU:HD22	2.43	0.53
26:Q:155:LEU:CD1	26:Q:185:TYR:HE1	2.21	0.53
30:U:36:VAL:HB	30:U:89:LEU:HD22	1.90	0.53
4:4:66:TYR:HE1	4:4:74:LEU:CD2	2.02	0.53
7:7:54:HIS:CD2	7:7:58:LEU:HD11	2.43	0.53
9:9:54:ARG:NH2	9:9:58:ASP:OD2	2.42	0.53
12:C:106:ILE:HG23	12:C:106:ILE:O	2.08	0.53
14:E:109:VAL:CB	14:E:156:PHE:CE1	2.90	0.53
16:G:192:VAL:HG13	16:G:215:ILE:HD13	1.89	0.53
22:M:50:ARG:N	32:W:73:LEU:CD1	2.70	0.53
23:N:106:ILE:O	23:N:110:VAL:HG23	2.09	0.53
24:O:217:LEU:CD2	24:O:238:ILE:HD13	2.38	0.53
25:P:221:TYR:CZ	25:P:240:TYR:O	2.62	0.53
26:Q:249:LEU:C	26:Q:250:THR:HG22	2.32	0.53
30:U:283:ARG:HE	31:V:287:THR:HB	1.74	0.53
31:V:261:LEU:HD13	31:V:283:THR:CG2	2.38	0.53
35:Z:218:GLU:HA	35:Z:248:TYR:CE1	2.44	0.53
35:Z:554:THR:O	35:Z:555:ALA:HB3	2.07	0.53
35:Z:617:ILE:HG23	35:Z:743:ILE:HG23	1.91	0.53
1:1:75:THR:CB	1:1:111:TYR:CE1	2.91	0.53
1:1:109:GLU:HB3	1:1:111:TYR:HE1	1.72	0.53
3:3:63:ASN:HD22	12:C:96:GLN:HE22	1.57	0.53
3:3:179:TYR:CE2	3:3:188:LYS:CG	2.92	0.53
6:6:115:SER:HB2	6:6:128:ARG:HG2	1.89	0.53
11:B:18:LEU:HD12	11:B:21:ILE:HD12	1.90	0.53
15:F:179:PHE:CE1	15:F:192:ALA:HB2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:G:73:ILE:HD13	16:G:108:ILE:HD13	1.91	0.53
16:G:215:ILE:CG2	16:G:230:VAL:HB	2.18	0.53
17:H:318:ARG:NH1	17:H:364:ALA:HB2	2.24	0.53
22:M:362:GLN:HA	22:M:376:TRP:HE1	1.72	0.53
23:N:328:PHE:CZ	23:N:696:LYS:HD2	2.42	0.53
23:N:383:LYS:H	23:N:412:TYR:HH	1.52	0.53
23:N:457:SER:O	23:N:458:ALA:HB3	2.09	0.53
24:O:73:ILE:CG2	24:O:74:ASN:H	2.07	0.53
24:O:82:LEU:CD2	24:O:98:TYR:OH	2.56	0.53
24:O:87:LYS:CD	24:O:135:ARG:HD2	2.39	0.53
24:O:103:LYS:O	24:O:129:ILE:HD11	2.09	0.53
24:O:195:TYR:HD2	24:O:213:LEU:HD13	1.74	0.53
25:P:286:ASN:HA	25:P:293:LEU:CD1	2.38	0.53
26:Q:217:GLU:HA	26:Q:220:LEU:HD12	1.91	0.53
27:R:360:SER:CB	34:Y:86:ARG:HH22	2.21	0.53
29:T:256:LYS:O	29:T:260:ILE:HG12	2.08	0.53
34:Y:84:TYR:O	34:Y:88:ASN:ND2	2.41	0.53
35:Z:621:LEU:HD13	35:Z:760:HIS:NE2	2.24	0.53
6:6:28:SER:OG	6:6:31:GLU:HB2	2.09	0.53
7:7:48:ASP:OD2	7:7:103:TRP:CD1	2.62	0.53
8:8:212:GLU:HG2	9:9:42:ARG:HH11	1.74	0.53
8:8:485:GLU:H	17:H:187:LEU:HD21	1.71	0.53
15:F:80:ASP:OD2	15:F:126:ARG:NH2	2.41	0.53
15:F:166:GLN:CA	22:M:381:ARG:HH21	2.21	0.53
17:H:420:ARG:CZ	18:I:343:ARG:NH1	2.72	0.53
19:J:67:GLU:O	20:K:144:ASN:HB2	2.09	0.53
20:K:68:ILE:HG12	23:N:608:LEU:HD21	1.77	0.53
20:K:167:PRO:HB2	21:L:315:PHE:HZ	1.74	0.53
30:U:94:HIS:HB3	30:U:122:ILE:HG12	1.89	0.53
30:U:152:LYS:CG	30:U:154:PHE:CZ	2.92	0.53
35:Z:359:LYS:NZ	35:Z:429:ASN:ND2	2.51	0.53
35:Z:385:PHE:HZ	35:Z:898:HIS:ND1	2.06	0.53
1:1:8:PHE:CE2	1:1:10:ASP:CB	2.74	0.53
2:2:72:ARG:NH1	10:A:116:VAL:HG21	2.23	0.53
2:2:142:TRP:NE1	2:2:145:ASP:HA	2.21	0.53
6:6:31:GLU:OE1	6:6:33:LYS:NZ	2.32	0.53
18:I:166:PRO:HG2	18:I:270:VAL:HG21	1.90	0.53
18:I:433:GLU:HA	18:I:436:TYR:CZ	2.43	0.53
23:N:158:LEU:HD13	23:N:192:LEU:HD21	1.90	0.53
23:N:741:TYR:H	23:N:742:TRP:HE3	1.57	0.53
24:O:47:LYS:NZ	24:O:69:PHE:CD1	2.68	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O:120:LYS:CB	24:O:166:ARG:HD2	2.39	0.53
25:P:202:LYS:HE2	25:P:206:LYS:NZ	2.23	0.53
25:P:384:VAL:HG13	25:P:390:TYR:HA	1.90	0.53
26:Q:162:LEU:CD1	26:Q:178:HIS:NE2	2.68	0.53
27:R:78:ASP:O	27:R:93:LYS:HG3	2.09	0.53
28:S:197:SER:O	28:S:198:SER:CB	2.57	0.53
29:T:169:GLN:OE1	29:T:174:PHE:CZ	2.61	0.53
30:U:66:TRP:H	32:W:93:ILE:HD11	1.73	0.53
32:W:179:ARG:O	32:W:180:LEU:HB2	2.07	0.53
35:Z:236:PHE:CE2	35:Z:245:VAL:CG2	2.92	0.53
4:4:3:ILE:HD11	4:4:44:SER:OG	2.08	0.53
5:5:124:GLY:N	5:5:127:PHE:HZ	2.07	0.53
5:5:135:PHE:HB2	5:5:167:ARG:NH1	2.24	0.53
10:A:220:LYS:HD3	10:A:242:GLU:CB	2.36	0.53
11:B:156:TYR:CE1	12:C:81:THR:HG21	2.44	0.53
12:C:206:LEU:HD11	12:C:211:LEU:HD11	1.91	0.53
18:I:150:HIS:ND1	18:I:151:HIS:N	2.57	0.53
19:J:115:LEU:HD23	19:J:115:LEU:C	2.35	0.53
23:N:89:PHE:CZ	23:N:101:ILE:HD11	2.44	0.53
23:N:176:GLN:NE2	23:N:182:ASN:ND2	2.56	0.53
25:P:308:LEU:O	25:P:308:LEU:HG	2.08	0.53
26:Q:308:ASN:C	26:Q:309:ARG:HD3	2.34	0.53
26:Q:343:LEU:CD2	26:Q:376:LYS:HG2	2.39	0.53
26:Q:429:LYS:NZ	31:V:269:ARG:HH22	2.07	0.53
27:R:125:GLU:CG	27:R:126:GLY:H	2.13	0.53
29:T:249:MET:O	29:T:250:MET:CB	2.57	0.53
35:Z:49:LEU:CD1	35:Z:55:ARG:CZ	2.87	0.53
35:Z:81:SER:O	35:Z:82:MET:CB	2.57	0.53
1:1:104:ASP:OD1	1:1:105:LYS:HG3	2.09	0.52
11:B:82:TYR:CD1	11:B:134:LEU:HD21	2.44	0.52
12:C:19:LEU:HD11	13:D:127:ARG:NH2	2.24	0.52
12:C:216:ILE:HG12	12:C:227:GLN:HG2	1.91	0.52
17:H:284:VAL:HG13	22:M:252:VAL:CG1	2.39	0.52
19:J:374:ARG:NH1	19:J:378:THR:HG21	2.23	0.52
24:O:117:ASN:C	24:O:166:ARG:HG2	2.33	0.52
24:O:210:ARG:NE	24:O:242:ILE:O	2.36	0.52
26:Q:418:GLN:O	26:Q:421:LYS:HB2	2.09	0.52
27:R:268:SER:OG	27:R:269:LYS:HG3	2.09	0.52
28:S:186:TYR:OH	28:S:309:PHE:CZ	2.62	0.52
29:T:190:ALA:HB2	29:T:224:ARG:NH2	2.20	0.52
31:V:114:PHE:CD1	31:V:118:LEU:C	2.80	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:37:VAL:HB	1:1:63:LEU:CD1	2.39	0.52
5:5:76:VAL:HG12	5:5:113:TYR:HD1	1.74	0.52
6:6:11:PHE:HA	6:6:105:LEU:HD21	1.90	0.52
11:B:174:PHE:CE1	26:Q:169:ASP:OD2	2.62	0.52
12:C:107:PRO:HD2	12:C:110:ILE:HD12	1.91	0.52
15:F:49:LEU:HD23	15:F:51:ARG:NH2	2.23	0.52
21:L:328:ASN:HD21	21:L:329:ARG:NE	2.07	0.52
26:Q:417:GLY:O	26:Q:421:LYS:HG3	2.09	0.52
27:R:240:SER:OG	27:R:244:THR:HG22	2.10	0.52
30:U:132:LEU:HG	30:U:134:THR:N	2.24	0.52
33:X:86:ILE:HG12	33:X:100:TRP:CD1	2.44	0.52
35:Z:748:LEU:HD23	35:Z:748:LEU:C	2.34	0.52
7:7:13:ILE:HG22	7:7:169:ILE:HG13	1.90	0.52
7:7:33:ARG:HH22	7:7:52:MET:HE1	1.74	0.52
10:A:110:TYR:CD2	10:A:111:ASP:O	2.62	0.52
19:J:189:GLY:O	19:J:295:ASN:OD1	2.26	0.52
21:L:81:ILE:HG22	21:L:82:ARG:N	2.23	0.52
22:M:50:ARG:CB	32:W:73:LEU:HB3	2.39	0.52
23:N:49:LEU:HD21	23:N:55:PHE:CD1	2.44	0.52
24:O:286:PHE:HE1	24:O:334:LEU:HD11	1.74	0.52
24:O:306:ARG:HD3	24:O:350:ILE:C	2.19	0.52
25:P:99:LYS:O	25:P:103:TYR:HD1	1.92	0.52
25:P:395:ARG:NE	26:Q:357:VAL:HA	2.20	0.52
26:Q:47:ASP:O	26:Q:51:ARG:HB2	2.09	0.52
26:Q:75:ARG:HH21	26:Q:113:ASP:HA	1.74	0.52
32:W:34:GLU:O	32:W:38:GLN:HG3	2.08	0.52
35:Z:312:TYR:CZ	35:Z:348:LEU:HA	2.39	0.52
10:A:48:LYS:NZ	10:A:195:ASN:ND2	2.57	0.52
12:C:98:TYR:CD1	12:C:104:GLU:O	2.62	0.52
14:E:219:LEU:HD11	14:E:239:LEU:HD23	1.91	0.52
18:I:281:ILE:HG21	18:I:284:ILE:HD11	0.57	0.52
20:K:141:ARG:NH1	21:L:153:LEU:HD11	2.23	0.52
20:K:289:ASP:O	20:K:293:GLN:HG3	2.10	0.52
22:M:410:VAL:HG12	22:M:411:LYS:O	2.09	0.52
23:N:360:GLN:O	23:N:364:LYS:HG3	2.10	0.52
24:O:66:VAL:HG13	24:O:106:PHE:CZ	2.44	0.52
26:Q:291:TYR:CZ	26:Q:293:SER:HB2	2.44	0.52
28:S:256:LYS:HD2	28:S:259:TYR:HH	1.72	0.52
28:S:315:LYS:HA	28:S:345:TYR:OH	2.08	0.52
29:T:11:LEU:HD21	29:T:27:LEU:CD2	2.40	0.52
29:T:82:PHE:HE1	29:T:109:TYR:CE2	1.95	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:T:227:PRO:CD	29:T:241:GLU:OE2	2.58	0.52
33:X:33:ILE:CD1	33:X:48:PHE:CZ	2.93	0.52
35:Z:889:VAL:HB	35:Z:901:PHE:CZ	2.44	0.52
2:2:30:ASN:O	2:2:31:CYS:HB2	2.09	0.52
2:2:220:ILE:CD1	3:3:39:HIS:ND1	2.73	0.52
8:8:283:LYS:CA	9:9:12:THR:O	2.56	0.52
10:A:36:ASN:HD21	10:A:140:ILE:HD12	1.73	0.52
17:H:207:THR:HG23	17:H:208:TYR:CD2	2.44	0.52
21:L:173:PHE:HD1	21:L:175:GLN:O	1.93	0.52
22:M:302:GLN:OE1	22:M:302:GLN:HA	2.09	0.52
24:O:11:LEU:CD2	24:O:15:ARG:HH12	2.13	0.52
24:O:137:TYR:HB3	24:O:149:LEU:CD1	2.37	0.52
24:O:369:ARG:HE	30:U:226:LEU:CD2	2.22	0.52
25:P:234:TYR:CA	25:P:267:PHE:CZ	2.80	0.52
26:Q:11:ALA:O	26:Q:14:LEU:HB2	2.09	0.52
27:R:137:LEU:HD23	27:R:153:THR:HB	1.90	0.52
28:S:205:ASN:O	28:S:208:ILE:CG2	2.39	0.52
32:W:25:ARG:NE	32:W:144:PHE:CE2	2.77	0.52
33:X:83:SER:HB3	33:X:86:ILE:HD11	1.91	0.52
35:Z:916:LEU:HD23	35:Z:922:PRO:CA	2.40	0.52
35:Z:973:TYR:HD2	35:Z:974:THR:HG22	1.75	0.52
5:5:125:ASP:OD1	5:5:126:ILE:N	2.42	0.52
8:8:118:CYS:N	9:9:76:GLZ:O	2.39	0.52
10:A:46:ARG:HG3	10:A:152:PRO:HB2	1.91	0.52
10:A:183:GLU:HG2	10:A:187:LYS:HE2	1.91	0.52
15:F:135:ILE:HG22	15:F:144:LEU:HD13	1.91	0.52
17:H:167:ASP:CG	17:H:168:ILE:H	2.18	0.52
18:I:252:LEU:HD22	18:I:263:LEU:CD2	2.39	0.52
20:K:75:LEU:O	20:K:79:LEU:HG	2.10	0.52
23:N:421:ASP:N	23:N:424:LYS:NZ	2.52	0.52
24:O:166:ARG:NH2	24:O:169:ASN:CB	2.72	0.52
26:Q:31:LEU:CG	26:Q:50:ARG:HH21	2.00	0.52
26:Q:311:LEU:CD1	26:Q:366:ILE:CG1	2.86	0.52
30:U:66:TRP:CZ3	30:U:68:LEU:HB2	2.40	0.52
30:U:123:VAL:HG12	30:U:125:VAL:HG13	1.92	0.52
31:V:182:LYS:CB	31:V:185:ILE:HG22	2.40	0.52
33:X:22:ARG:HE	33:X:96:ARG:HH12	1.58	0.52
2:2:70:THR:OG1	2:2:72:ARG:HG3	2.10	0.52
3:3:61:LYS:HZ2	3:3:85:SER:HB3	1.75	0.52
5:5:158:LYS:HE3	5:5:196:LEU:HD11	1.92	0.52
12:C:144:TYR:CB	12:C:147:GLN:HE21	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:D:218:ASP:O	13:D:219:SER:HB2	2.09	0.52
20:K:189:GLU:HG3	20:K:230:THR:HG22	1.91	0.52
20:K:347:ARG:NH1	26:Q:205:ALA:HB1	2.23	0.52
20:K:349:ARG:CZ	20:K:376:ASP:HA	2.40	0.52
21:L:407:ARG:HD3	21:L:409:HIS:CD2	2.45	0.52
23:N:277:LEU:HB3	23:N:287:LEU:CD2	2.36	0.52
27:R:354:ALA:HB1	27:R:361:VAL:HA	1.92	0.52
29:T:86:LYS:HB3	29:T:87:PRO:HD3	1.90	0.52
35:Z:335:LEU:HG	35:Z:335:LEU:O	2.09	0.52
1:1:85:LEU:HD12	1:1:89:ASN:HD22	1.75	0.52
1:1:120:HIS:NE2	7:7:49:ILE:HG21	2.25	0.52
11:B:45:ILE:HD12	11:B:74:VAL:HG13	1.92	0.52
11:B:70:ASP:O	11:B:214:ILE:HG21	2.10	0.52
16:G:60:PRO:HB3	16:G:212:GLU:OE2	2.10	0.52
19:J:219:VAL:CA	20:K:281:ARG:HD2	2.34	0.52
20:K:95:VAL:CG1	20:K:139:LEU:HB2	2.34	0.52
23:N:21:LYS:CG	23:N:55:PHE:CE2	2.93	0.52
24:O:52:ALA:HB3	24:O:85:SER:HB3	1.90	0.52
24:O:87:LYS:HD2	24:O:135:ARG:CD	2.40	0.52
24:O:140:LYS:CD	24:O:141:ASN:HD21	2.23	0.52
24:O:335:GLY:O	24:O:336:LEU:CB	2.58	0.52
26:Q:11:ALA:HA	26:Q:14:LEU:HD12	1.91	0.52
27:R:60:ALA:HB3	27:R:102:LEU:HD22	1.91	0.52
27:R:94:PHE:CG	27:R:95:ASP:N	2.77	0.52
27:R:252:TYR:CE1	27:R:321:TYR:HB3	2.45	0.52
30:U:76:MET:HB2	31:V:94:MET:HE1	1.91	0.52
31:V:57:PHE:CD2	31:V:63:VAL:HG22	2.44	0.52
32:W:182:TYR:O	32:W:183:GLU:HB2	2.06	0.52
35:Z:128:GLU:OE2	35:Z:132:HIS:HB2	2.10	0.52
35:Z:955:VAL:O	35:Z:956:LEU:HB2	2.08	0.52
1:1:-6:GLY:CA	2:2:116:HIS:CG	2.91	0.52
6:6:-8:PHE:CE1	7:7:124:LEU:HD13	2.44	0.52
7:7:185:ARG:HG2	7:7:205:GLN:HG3	1.92	0.52
17:H:66:LYS:HE2	18:I:99:ILE:HB	1.92	0.52
17:H:249:TYR:CZ	17:H:376:GLU:CA	2.91	0.52
17:H:389:PHE:C	17:H:404:TRP:CZ3	2.88	0.52
20:K:352:ILE:HG21	20:K:383:ILE:HG22	1.91	0.52
21:L:407:ARG:HD3	21:L:409:HIS:NE2	2.25	0.52
22:M:50:ARG:HB3	32:W:73:LEU:HB3	1.90	0.52
23:N:645:THR:HG21	23:N:660:LEU:HD11	1.91	0.52
24:O:260:VAL:HG11	24:O:262:ASP:OD2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:P:268:LEU:HD12	25:P:280:LEU:HD23	1.91	0.52
25:P:273:TYR:HE2	25:P:388:ILE:HG13	1.75	0.52
25:P:352:VAL:HB	25:P:356:TYR:CE2	2.45	0.52
26:Q:266:LEU:HD23	26:Q:281:ILE:CD1	2.40	0.52
27:R:137:LEU:HD12	27:R:141:TYR:CE2	2.36	0.52
28:S:237:ILE:CG2	28:S:253:PHE:CE1	2.92	0.52
30:U:100:ARG:O	30:U:152:LYS:CD	2.55	0.52
30:U:132:LEU:HD21	30:U:134:THR:O	2.10	0.52
32:W:59:PRO:CB	32:W:93:ILE:HG13	2.38	0.52
35:Z:147:GLU:HA	35:Z:210:TYR:HE1	1.70	0.52
35:Z:187:SER:O	35:Z:188:ALA:HB3	2.10	0.52
35:Z:391:ASN:OD1	35:Z:394:TYR:CD2	2.63	0.52
35:Z:557:GLU:O	35:Z:558:LEU:HB3	2.09	0.52
5:5:37:ILE:HG22	5:5:38:ASN:HB2	1.90	0.52
13:D:203:VAL:O	13:D:204:GLN:CB	2.57	0.52
15:F:65:LYS:CD	15:F:222:PHE:HD2	2.22	0.52
15:F:166:GLN:HA	22:M:381:ARG:HH22	1.70	0.52
17:H:402:ILE:HD13	17:H:443:PHE:HE2	1.75	0.52
18:I:132:ILE:CG1	18:I:156:ILE:HD12	2.29	0.52
20:K:254:VAL:O	20:K:258:PHE:HD1	1.92	0.52
22:M:196:ALA:HB2	22:M:345:ARG:NE	2.24	0.52
23:N:277:LEU:HD23	23:N:280:GLN:NE2	2.25	0.52
26:Q:243:PHE:CE2	26:Q:287:THR:C	2.84	0.52
29:T:197:TYR:HE2	29:T:200:LEU:N	2.04	0.52
29:T:224:ARG:HB3	29:T:242:LYS:CB	2.40	0.52
35:Z:220:ALA:O	35:Z:224:LEU:HG	2.10	0.52
35:Z:424:SER:OG	35:Z:457:ILE:HG21	2.10	0.52
35:Z:620:LEU:HD23	35:Z:743:ILE:CG1	2.40	0.52
1:1:122:LEU:CG	7:7:28:PHE:CE1	2.93	0.51
6:6:61:ASN:O	6:6:65:TRP:HD1	1.92	0.51
11:B:4:ARG:NH2	13:D:5:ASP:H	2.06	0.51
14:E:157:HIS:HD2	14:E:170:LYS:NZ	2.07	0.51
15:F:51:ARG:NH2	15:F:204:GLU:OE1	2.33	0.51
16:G:7:TYR:CE1	16:G:13:VAL:CG2	2.89	0.51
17:H:168:ILE:HD13	17:H:174:VAL:CG1	2.40	0.51
20:K:262:ARG:NH1	20:K:311:ASN:OD1	2.43	0.51
21:L:360:ILE:HG21	21:L:391:ILE:HD12	1.83	0.51
22:M:163:PHE:CD1	22:M:261:LYS:CE	2.90	0.51
23:N:508:THR:HG21	23:N:513:ILE:HG22	1.91	0.51
30:U:15:LEU:HD12	30:U:125:VAL:HG12	1.92	0.51
30:U:273:LEU:O	30:U:277:TYR:CG	2.62	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:W:142:ILE:CG2	32:W:185:ILE:HD12	2.40	0.51
35:Z:955:VAL:HG22	35:Z:956:LEU:HG	1.90	0.51
2:2:87:LEU:HD21	2:2:94:ILE:HD11	1.93	0.51
7:7:54:HIS:HD2	7:7:95:ARG:HH22	1.56	0.51
8:8:114:MSE:HE2	8:8:181:PRO:HD2	1.90	0.51
8:8:318:PHE:CZ	17:H:163:VAL:HG13	2.45	0.51
13:D:34:VAL:HG21	13:D:199:LEU:HD21	1.92	0.51
14:E:143:LEU:HD21	14:E:157:HIS:ND1	2.25	0.51
17:H:162:ARG:HH21	17:H:167:ASP:CG	2.18	0.51
17:H:198:MET:CE	17:H:272:ILE:CG2	2.72	0.51
17:H:198:MET:HE1	17:H:272:ILE:HG12	1.92	0.51
20:K:127:ASP:OD1	20:K:128:ARG:N	2.42	0.51
22:M:290:ARG:NE	22:M:292:ASP:OD2	2.38	0.51
24:O:41:LEU:CD1	24:O:47:LYS:HG2	2.40	0.51
24:O:133:ILE:HG13	24:O:137:TYR:CE2	2.42	0.51
25:P:135:GLU:CG	25:P:138:ARG:HH22	2.24	0.51
26:Q:65:TYR:CD2	26:Q:74:LEU:HD13	2.44	0.51
26:Q:351:ILE:CG2	26:Q:362:ILE:HD13	2.40	0.51
27:R:110:ILE:HG22	27:R:114:ASN:ND2	2.25	0.51
31:V:108:TYR:O	31:V:109:HIS:CD2	2.63	0.51
31:V:168:LEU:CD1	31:V:182:LYS:HD2	2.41	0.51
32:W:25:ARG:HD2	32:W:144:PHE:CZ	2.43	0.51
32:W:71:LYS:CA	32:W:74:ALA:HB3	2.34	0.51
35:Z:437:ASP:O	35:Z:441:TYR:CD2	2.64	0.51
2:2:72:ARG:CZ	2:2:75:ARG:HH12	2.23	0.51
6:6:120:GLY:O	6:6:121:SER:HB2	2.10	0.51
10:A:174:LYS:HD3	10:A:214:LEU:HA	1.91	0.51
14:E:165:TYR:CB	14:E:167:TYR:HE1	2.09	0.51
15:F:65:LYS:HD2	15:F:222:PHE:HD2	1.73	0.51
16:G:98:PHE:CZ	16:G:107:PRO:HD3	2.45	0.51
17:H:428:MET:HE2	17:H:431:ILE:HD12	1.92	0.51
19:J:169:LYS:HE2	19:J:206:THR:HG22	1.92	0.51
20:K:89:ILE:HG22	20:K:90:GLN:HE21	1.75	0.51
23:N:490:LEU:HD21	23:N:526:TYR:CG	2.46	0.51
24:O:47:LYS:NZ	24:O:65:PHE:CE2	2.61	0.51
24:O:69:PHE:HZ	24:O:77:SER:HB3	1.75	0.51
24:O:217:LEU:HD21	24:O:238:ILE:HD13	1.92	0.51
25:P:147:LYS:HD3	25:P:155:GLU:HG3	1.91	0.51
25:P:234:TYR:CD2	25:P:267:PHE:CE2	2.99	0.51
26:Q:74:LEU:HD21	26:Q:104:PHE:CE1	2.45	0.51
26:Q:74:LEU:HD21	26:Q:104:PHE:HE1	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Q:351:ILE:HD12	26:Q:386:PHE:CD1	2.45	0.51
28:S:168:LEU:HD13	28:S:184:TRP:CZ2	2.45	0.51
31:V:40:HIS:CE1	31:V:70:ALA:HB2	2.44	0.51
31:V:79:SER:CA	31:V:121:VAL:HG13	2.39	0.51
35:Z:64:TYR:OH	35:Z:115:LEU:CB	2.57	0.51
3:3:44:ILE:HG22	3:3:51:VAL:HG22	1.92	0.51
3:3:155:PHE:CE1	3:3:189:ARG:CD	2.89	0.51
4:4:27:LEU:HD12	5:5:137:TYR:CE1	2.45	0.51
4:4:28:LYS:HE2	5:5:127:PHE:CE2	2.44	0.51
5:5:74:ILE:HG12	5:5:75:SER:O	2.10	0.51
11:B:139:HIS:ND1	11:B:145:PHE:CE1	2.77	0.51
16:G:106:ILE:HG23	16:G:106:ILE:O	2.10	0.51
19:J:339:ARG:HH12	27:R:168:ILE:HG13	1.76	0.51
20:K:353:PHE:HD1	20:K:387:MET:HG3	1.74	0.51
23:N:433:THR:HG22	23:N:439:VAL:HG11	1.93	0.51
23:N:555:ILE:HB	23:N:571:LEU:HD21	1.92	0.51
23:N:669:GLU:O	23:N:670:LYS:CB	2.54	0.51
24:O:373:TRP:CH2	30:U:229:LEU:O	2.64	0.51
28:S:232:MET:HA	28:S:272:TYR:OH	2.11	0.51
28:S:425:ARG:NH1	29:T:155:GLY:CA	2.66	0.51
28:S:465:ILE:HG12	29:T:266:TYR:CD2	2.46	0.51
30:U:283:ARG:HH12	31:V:283:THR:C	2.18	0.51
33:X:10:PHE:CE2	33:X:11:ARG:O	2.64	0.51
33:X:46:TRP:HE1	33:X:132:SER:HA	1.75	0.51
33:X:75:TRP:CE3	33:X:125:MET:HB3	2.45	0.51
12:C:161:LYS:HD2	12:C:180:TYR:OH	2.10	0.51
13:D:159:TRP:CH2	14:E:59:LEU:HD13	2.45	0.51
15:F:198:SER:HA	15:F:206:LEU:CD1	2.36	0.51
19:J:219:VAL:CB	20:K:281:ARG:NE	2.63	0.51
19:J:220:GLN:HE22	20:K:293:GLN:NE2	2.07	0.51
19:J:234:PHE:HE1	19:J:279:LEU:HD21	1.69	0.51
21:L:161:ARG:HH21	21:L:261:ARG:HH12	0.52	0.51
21:L:254:LYS:N	22:M:256:ILE:HG13	2.24	0.51
23:N:386:MET:CE	23:N:404:SER:HA	2.41	0.51
26:Q:250:THR:CG2	26:Q:251:THR:N	2.62	0.51
28:S:277:SER:OG	28:S:293:ILE:HG13	2.11	0.51
28:S:288:THR:CG2	28:S:292:TYR:CE2	2.93	0.51
1:1:120:HIS:CB	7:7:28:PHE:CE1	2.93	0.51
3:3:75:PRO:CB	3:3:111:PHE:HD2	2.23	0.51
5:5:32:LYS:HB2	6:6:123:GLU:OE2	2.10	0.51
5:5:77:ALA:HA	5:5:121:ARG:HH21	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:159:ARG:HH12	5:5:200:VAL:HA	1.76	0.51
9:9:42:ARG:HD2	9:9:49:GLN:OE1	2.11	0.51
10:A:57:LYS:HZ3	10:A:69:VAL:HB	1.72	0.51
13:D:138:PHE:HE1	13:D:215:VAL:CG1	2.09	0.51
16:G:90:ARG:HH12	16:G:122:HIS:CE1	2.28	0.51
17:H:146:VAL:N	17:H:157:VAL:HG21	2.24	0.51
23:N:542:SER:HB3	23:N:547:LEU:CD1	2.41	0.51
23:N:641:LEU:O	23:N:645:THR:HG23	2.10	0.51
24:O:254:LEU:O	24:O:258:LEU:HG	2.11	0.51
25:P:234:TYR:CD2	25:P:267:PHE:CG	2.99	0.51
25:P:308:LEU:HD22	25:P:369:LEU:HD23	1.86	0.51
28:S:141:LEU:O	28:S:145:PHE:CE2	2.64	0.51
31:V:261:LEU:HD11	31:V:283:THR:HG22	1.83	0.51
32:W:59:PRO:CG	32:W:93:ILE:CG1	2.58	0.51
33:X:85:ARG:HE	33:X:115:SER:CB	2.23	0.51
33:X:91:PHE:O	33:X:92:SER:HB2	2.11	0.51
35:Z:254:PRO:HB3	35:Z:287:ARG:HH12	1.75	0.51
35:Z:403:ASN:OD1	35:Z:405:ASN:HB2	2.11	0.51
35:Z:505:VAL:O	35:Z:509:LEU:HG	2.10	0.51
8:8:330:LEU:HD11	17:H:166:THR:HG21	1.66	0.51
10:A:135:ARG:NH2	16:G:124:LEU:HD21	2.25	0.51
11:B:38:LYS:CE	11:B:145:PHE:O	2.59	0.51
11:B:75:TYR:HB3	11:B:134:LEU:CD2	2.41	0.51
15:F:12:THR:HG22	15:F:13:PHE:O	2.10	0.51
15:F:155:GLU:CD	16:G:62:LYS:HB3	2.33	0.51
17:H:342:GLY:O	17:H:343:PHE:HB2	2.09	0.51
19:J:286:LYS:NZ	19:J:289:LYS:HG2	2.26	0.51
19:J:329:ARG:CB	19:J:343:LEU:HD13	2.40	0.51
23:N:395:ALA:HB3	23:N:401:LYS:HE3	1.93	0.51
23:N:596:LEU:HD21	23:N:627:ILE:HG22	1.93	0.51
23:N:771:PHE:CG	23:N:772:GLN:N	2.78	0.51
24:O:138:LEU:CD2	24:O:146:ALA:CB	2.89	0.51
24:O:387:ARG:HH22	29:T:258:ASN:HB3	1.72	0.51
27:R:259:PHE:HD2	27:R:329:PHE:HE1	1.57	0.51
30:U:68:LEU:HD13	30:U:110:PHE:CZ	2.46	0.51
33:X:73:THR:CG2	33:X:91:PHE:CE1	2.94	0.51
35:Z:970:TYR:CD1	35:Z:993:GLU:HB2	2.45	0.51
11:B:178:ARG:CD	11:B:191:ILE:HG23	2.40	0.51
18:I:235:ALA:O	18:I:239:GLN:HG2	2.10	0.51
19:J:187:LEU:C	19:J:195:LYS:HZ2	2.18	0.51
23:N:666:GLN:HG3	23:N:873:ARG:CZ	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:P:425:HIS:CE1	30:U:228:LYS:HB2	2.46	0.51
27:R:381:ILE:HG22	27:R:388:VAL:HG22	1.92	0.51
28:S:214:MET:HE2	28:S:236:LEU:HD13	1.93	0.51
28:S:439:GLU:OE2	29:T:199:PHE:HB2	2.11	0.51
29:T:111:LEU:HD21	29:T:177:PHE:HB2	1.91	0.51
30:U:98:LYS:NZ	30:U:124:ASP:HB2	2.25	0.51
30:U:154:PHE:CD1	30:U:154:PHE:N	2.78	0.51
35:Z:924:LYS:CG	35:Z:959:HIS:ND1	2.74	0.51
9:9:42:ARG:HB2	9:9:70:VAL:O	2.11	0.51
12:C:71:ASP:OD1	12:C:72:LYS:HG3	2.11	0.51
14:E:46:VAL:HG11	14:E:145:ALA:HB1	1.93	0.51
18:I:148:LEU:HD11	19:J:95:ILE:HG21	1.92	0.51
18:I:222:TYR:OH	18:I:349:LEU:CB	2.59	0.51
19:J:219:VAL:HG22	20:K:284:ALA:CB	2.17	0.51
20:K:283:ASP:O	20:K:284:ALA:HB3	2.11	0.51
20:K:316:MET:HG3	20:K:334:LEU:HD21	1.92	0.51
21:L:245:PHE:CZ	21:L:281:ASP:OD2	2.64	0.51
21:L:283:VAL:HG11	21:L:325:MET:HE2	1.92	0.51
23:N:47:GLU:CD	23:N:81:TYR:OH	2.54	0.51
23:N:542:SER:CB	23:N:547:LEU:HD13	2.40	0.51
23:N:579:SER:CA	23:N:584:ARG:NH2	2.69	0.51
24:O:173:SER:HB3	24:O:195:TYR:CE1	2.46	0.51
27:R:263:ARG:HD3	27:R:296:LEU:CD2	2.41	0.51
33:X:46:TRP:O	33:X:68:LEU:CB	2.59	0.51
3:3:61:LYS:HZ2	3:3:85:SER:CB	2.24	0.51
4:4:72:TYR:HB2	12:C:143:ARG:NH2	2.25	0.51
9:9:54:ARG:CZ	9:9:58:ASP:OD2	2.59	0.51
16:G:114:ARG:O	16:G:118:TYR:HD2	1.94	0.51
21:L:197:ILE:HG23	21:L:322:LYS:HD2	1.92	0.51
23:N:738:GLN:NE2	23:N:742:TRP:CZ3	2.80	0.51
24:O:379:LYS:HE2	24:O:383:LYS:NZ	2.26	0.51
26:Q:294:ARG:HB2	26:Q:324:GLU:OE1	2.11	0.51
26:Q:311:LEU:HD11	26:Q:366:ILE:CD1	2.41	0.51
28:S:343:LEU:HB2	28:S:344:PRO:CD	2.41	0.51
32:W:41:ARG:CZ	32:W:67:ALA:O	2.60	0.51
32:W:159:ALA:HA	32:W:162:ASN:HD21	1.76	0.51
33:X:39:GLU:HA	33:X:133:SER:OG	2.11	0.51
1:1:124:TYR:HD1	1:1:142:PHE:CZ	2.29	0.50
4:4:51:ASP:HB3	4:4:97:TYR:HD1	1.76	0.50
7:7:-3:VAL:HG12	7:7:49:ILE:HB	1.92	0.50
8:8:133:LEU:HD11	8:8:221[B]:MSE:CE	2.31	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:A:52:VAL:HG23	10:A:202:VAL:CG1	2.41	0.50
12:C:13:PHE:CE1	13:D:127:ARG:HD2	2.46	0.50
14:E:157:HIS:ND1	14:E:172:ILE:HG21	2.15	0.50
18:I:113:ILE:CG2	18:I:114:ASP:N	2.74	0.50
18:I:361:ILE:CG2	18:I:392:ILE:CG2	2.79	0.50
20:K:60:LEU:O	20:K:64:GLN:HG3	2.12	0.50
22:M:228:LYS:HE2	22:M:326:ALA:CB	2.41	0.50
23:N:33:ASP:O	23:N:36:TRP:HD1	1.94	0.50
23:N:273:LEU:O	23:N:277:LEU:HG	2.11	0.50
23:N:330:THR:O	23:N:334:VAL:HG23	2.10	0.50
24:O:103:LYS:O	24:O:129:ILE:HG12	2.07	0.50
24:O:222:LEU:CD2	24:O:270:ILE:CD1	2.90	0.50
24:O:226:LYS:HB3	24:O:226:LYS:NZ	2.26	0.50
25:P:248:ASP:OD1	25:P:256:LYS:NZ	2.41	0.50
25:P:265:VAL:HG22	25:P:280:LEU:HD23	1.93	0.50
25:P:268:LEU:HD12	25:P:280:LEU:CD2	2.41	0.50
25:P:353:ILE:HG22	25:P:402:PHE:CZ	2.46	0.50
26:Q:429:LYS:HG2	30:U:292:ILE:HG22	1.92	0.50
27:R:416:LYS:NZ	28:S:294:ILE:HG21	2.26	0.50
28:S:322:LEU:CD2	28:S:327:ILE:HG22	2.41	0.50
28:S:465:ILE:HG12	29:T:266:TYR:HD2	1.76	0.50
29:T:114:LEU:HD13	29:T:148:LEU:HD23	1.92	0.50
33:X:11:ARG:HG2	33:X:103:GLU:HA	1.93	0.50
5:5:3:THR:HG23	5:5:16:VAL:HG12	1.92	0.50
5:5:65:LEU:HD13	14:E:97:VAL:HG21	1.93	0.50
6:6:17:ASP:OD2	6:6:189:VAL:HA	2.11	0.50
20:K:158:ILE:CG2	21:L:256:ILE:CG2	2.82	0.50
21:L:228:LYS:NZ	21:L:326:ALA:HB1	2.27	0.50
23:N:91:ILE:O	23:N:94:LYS:HE2	2.11	0.50
24:O:70:TYR:OH	24:O:113:LYS:HE3	2.11	0.50
26:Q:390:LEU:HD23	27:R:345:TYR:HE1	1.76	0.50
27:R:36:SER:C	27:R:43:ARG:HH21	2.15	0.50
29:T:161:TRP:HE3	29:T:162:ASP:OD1	1.93	0.50
29:T:194:GLU:OE2	29:T:239:SER:N	2.44	0.50
30:U:127:GLN:HG2	31:V:212:MET:HB3	1.93	0.50
33:X:80:SER:OG	33:X:83:SER:HB3	2.11	0.50
33:X:100:TRP:HZ2	33:X:110:PRO:HD3	1.76	0.50
35:Z:165:TYR:O	35:Z:169:VAL:HG23	2.11	0.50
35:Z:312:TYR:CZ	35:Z:348:LEU:C	2.88	0.50
35:Z:862:MET:HE2	35:Z:910:PRO:CG	2.40	0.50
2:2:61:SER:OG	11:B:94:HIS:HB3	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:85:GLN:O	2:2:89:LYS:HG3	2.12	0.50
3:3:84:SER:O	3:3:88:GLU:HG3	2.12	0.50
7:7:121:TYR:CE1	7:7:123:ASN:HB3	2.46	0.50
7:7:129:TYR:CE2	7:7:134:LEU:HD22	2.45	0.50
10:A:40:ILE:CD1	10:A:84:ASN:HA	2.41	0.50
10:A:156:LYS:HB3	10:A:166:TYR:HE1	1.75	0.50
11:B:35:LEU:C	11:B:35:LEU:HD12	2.36	0.50
15:F:12:THR:HG21	16:G:9:LEU:HD23	1.94	0.50
17:H:62:ARG:HA	18:I:133:LEU:HD11	1.94	0.50
18:I:300:ARG:HG2	18:I:304:ARG:NH1	2.26	0.50
19:J:115:LEU:CB	19:J:122:LEU:HD23	2.35	0.50
19:J:342:ASN:HB2	19:J:345:LYS:HD2	1.94	0.50
23:N:253:LEU:HD13	23:N:894:ARG:NE	2.25	0.50
25:P:272:PRO:HG2	25:P:273:TYR:CD1	2.47	0.50
27:R:181:TYR:HD2	27:R:183:ASP:HB2	1.75	0.50
29:T:209:LEU:CD1	29:T:211:PHE:CE2	2.94	0.50
29:T:240:LYS:HA	29:T:245:TYR:CB	2.38	0.50
29:T:246:GLU:HG3	29:T:246:GLU:O	2.10	0.50
32:W:20:ASP:OD2	32:W:176:PRO:HB3	2.11	0.50
35:Z:232:LYS:HA	35:Z:235:GLN:HB3	1.93	0.50
35:Z:357:ILE:CD1	35:Z:914:LEU:HD13	2.22	0.50
35:Z:963:ALA:O	35:Z:964:GLU:CG	2.58	0.50
1:1:138:CYS:HA	1:1:154:PHE:HZ	1.75	0.50
6:6:3:ILE:CD1	6:6:101:ILE:HD12	2.40	0.50
6:6:73:LYS:NZ	14:E:108:ASN:ND2	2.59	0.50
11:B:82:TYR:O	11:B:86:VAL:HG23	2.10	0.50
18:I:176:SER:HB2	19:J:282:PHE:HE1	1.76	0.50
19:J:196:THR:HA	19:J:246:PHE:CZ	2.46	0.50
20:K:192:LEU:HD21	20:K:313:LYS:HG2	1.92	0.50
20:K:300:LEU:HA	20:K:333:ARG:HH12	1.77	0.50
21:L:104:LEU:HD13	22:M:127:VAL:HG12	1.94	0.50
21:L:140:LEU:CD2	21:L:158:ILE:HG12	2.42	0.50
22:M:345:ARG:NH2	22:M:347:ILE:HG12	2.26	0.50
23:N:328:PHE:HE1	23:N:696:LYS:CB	2.24	0.50
24:O:15:ARG:HD2	24:O:43:GLU:OE2	2.11	0.50
24:O:81:TYR:O	24:O:82:LEU:HB2	2.11	0.50
24:O:258:LEU:HD13	24:O:291:ILE:HD11	1.94	0.50
25:P:127:GLU:OE2	25:P:130:ILE:HG22	2.12	0.50
27:R:259:PHE:HZ	27:R:332:GLU:OE1	1.95	0.50
29:T:32:ILE:HA	29:T:35:ILE:CG2	2.42	0.50
29:T:225:ASN:CB	29:T:241:GLU:HA	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:V:32:ILE:O	31:V:36:LYS:HG2	2.11	0.50
35:Z:617:ILE:HD11	35:Z:747:ALA:HB2	1.93	0.50
35:Z:888:LEU:HG	35:Z:901:PHE:HE1	1.71	0.50
4:4:27:LEU:HD12	5:5:137:TYR:CZ	2.46	0.50
5:5:104:TYR:C	5:5:104:TYR:HD1	2.20	0.50
12:C:57:LEU:HG	12:C:58:GLU:O	2.12	0.50
14:E:208:MET:SD	14:E:212:LEU:HD13	2.52	0.50
17:H:168:ILE:HA	17:H:174:VAL:HG11	1.94	0.50
19:J:187:LEU:HD13	19:J:198:LEU:HD23	1.93	0.50
21:L:147:THR:OG1	21:L:159:LEU:HD11	2.11	0.50
22:M:376:TRP:CE3	22:M:376:TRP:HA	2.47	0.50
23:N:220:CYS:HB3	23:N:225:LEU:HD11	1.93	0.50
24:O:138:LEU:CD2	24:O:146:ALA:HB1	2.42	0.50
25:P:184:MET:CB	25:P:223:LEU:HD22	2.39	0.50
26:Q:195:LYS:NZ	26:Q:229:ASP:HB3	2.27	0.50
32:W:38:GLN:HG2	32:W:69:PHE:HZ	1.76	0.50
35:Z:422:ILE:HD11	35:Z:436:LEU:HD23	1.94	0.50
16:G:217:TRP:HE1	16:G:228:LYS:HB2	1.76	0.50
17:H:402:ILE:HD13	17:H:443:PHE:CE2	2.47	0.50
18:I:335:ASP:HB2	18:I:338:LEU:HG	1.94	0.50
19:J:150:VAL:CG1	19:J:197:LEU:HD13	2.42	0.50
19:J:224:GLY:O	19:J:228:ARG:N	2.43	0.50
19:J:374:ARG:NH1	19:J:378:THR:CG2	2.74	0.50
20:K:107:THR:OG1	20:K:121:ARG:NH1	2.44	0.50
20:K:158:ILE:HG22	21:L:256:ILE:HG23	1.91	0.50
21:L:119:VAL:HG11	21:L:148:LEU:HD11	1.93	0.50
23:N:21:LYS:HE2	23:N:55:PHE:CZ	2.41	0.50
23:N:321:LEU:HD22	23:N:328:PHE:CD1	2.47	0.50
24:O:306:ARG:CD	24:O:351:SER:CA	2.88	0.50
24:O:340:SER:CB	25:P:358:SER:HB2	2.38	0.50
25:P:134:VAL:CG2	25:P:138:ARG:NH1	2.68	0.50
27:R:308:LEU:HB3	27:R:334:ARG:NH2	2.18	0.50
29:T:248:GLU:O	29:T:248:GLU:HG2	2.11	0.50
31:V:113:GLY:HA3	31:V:142:ASP:OD2	2.11	0.50
31:V:117:TRP:HH2	31:V:157:ARG:C	2.20	0.50
35:Z:854:LEU:HD11	35:Z:864:MET:SD	2.51	0.50
35:Z:985:LYS:HB2	35:Z:991:GLU:HG3	1.94	0.50
3:3:63:ASN:ND2	12:C:96:GLN:HE22	2.09	0.50
3:3:85:SER:HA	3:3:88:GLU:OE1	2.10	0.50
5:5:76:VAL:HG13	5:5:101:ILE:HG22	1.92	0.50
14:E:143:LEU:HG	14:E:172:ILE:CD1	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:F:166:GLN:C	22:M:381:ARG:NH2	2.70	0.50
15:F:179:PHE:HD1	15:F:188:GLU:HG3	1.76	0.50
16:G:86:HIS:HD2	16:G:131:PHE:CZ	2.29	0.50
17:H:145:TYR:HB2	17:H:162:ARG:CZ	2.42	0.50
18:I:176:SER:C	19:J:282:PHE:CD1	2.90	0.50
19:J:212:ARG:HH12	20:K:330:ARG:HD3	1.77	0.50
22:M:175:LYS:NZ	22:M:240:ASN:HB3	2.27	0.50
24:O:153:LEU:HD11	24:O:174:THR:HG21	1.75	0.50
24:O:233:LEU:HD22	24:O:236:HIS:ND1	2.26	0.50
25:P:311:TRP:HB3	25:P:312:PRO:HD3	1.93	0.50
26:Q:331:THR:HG21	26:Q:335:PHE:HE2	1.68	0.50
27:R:404:VAL:HG21	30:U:274:MET:SD	2.52	0.50
33:X:23:LEU:O	33:X:24:CYS:CB	2.59	0.50
33:X:33:ILE:HD11	33:X:48:PHE:CE2	2.46	0.50
35:Z:401:VAL:CG2	35:Z:426:TYR:HH	2.08	0.50
1:1:176:VAL:HG13	1:1:183:VAL:HG13	1.79	0.50
3:3:44:ILE:HG12	3:3:98:PRO:HA	1.94	0.50
4:4:18:LYS:HB3	4:4:179:ILE:HG13	1.93	0.50
11:B:117:ILE:HG22	11:B:130:PHE:CE2	2.46	0.50
12:C:98:TYR:CD1	12:C:106:ILE:N	2.80	0.50
12:C:208:TYR:CB	12:C:235:ILE:CG2	2.89	0.50
15:F:51:ARG:HH21	15:F:204:GLU:CD	2.18	0.50
16:G:140:VAL:CG1	16:G:220:LEU:HG	2.35	0.50
17:H:295:PHE:HE1	17:H:336:LEU:HD12	1.76	0.50
19:J:143:PRO:O	19:J:204:HIS:CG	2.64	0.50
20:K:211:LEU:HD23	20:K:338:ILE:HB	1.94	0.50
20:K:314:VAL:HG12	20:K:316:MET:HE2	1.91	0.50
24:O:287:LEU:C	24:O:287:LEU:HD23	2.36	0.50
24:O:374:ASN:HA	30:U:200:LEU:HD13	1.93	0.50
26:Q:282:LEU:HD23	26:Q:288:LYS:HE3	1.93	0.50
27:R:301:TYR:HD2	27:R:357:PHE:O	1.95	0.50
27:R:383:ARG:HD3	28:S:406:ASP:OD1	2.11	0.50
29:T:225:ASN:CB	29:T:241:GLU:HG2	2.41	0.50
30:U:127:GLN:HB3	31:V:212:MET:HB2	1.94	0.50
32:W:101:ARG:HH12	32:W:104:LYS:CG	2.04	0.50
4:4:27:LEU:CD1	5:5:137:TYR:CE1	2.95	0.50
7:7:13:ILE:HG12	7:7:191:ILE:HG12	1.94	0.50
7:7:193:ASP:OD2	7:7:195:ASN:HB2	2.12	0.50
12:C:98:TYR:CE1	12:C:104:GLU:O	2.65	0.50
13:D:157:SER:HB3	13:D:159:TRP:NE1	2.26	0.50
15:F:43:HIS:NE2	15:F:219:ASP:OD1	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:F:45:VAL:HG13	15:F:189:LEU:HD23	1.93	0.50
15:F:215:ILE:CD1	15:F:220:THR:HG21	2.41	0.50
17:H:284:VAL:HB	22:M:254:MET:HB3	1.92	0.50
19:J:256:THR:O	19:J:257:ARG:HB2	2.12	0.50
20:K:244:HIS:ND1	20:K:250:GLY:HA3	2.24	0.50
22:M:379:LEU:HB3	22:M:415:PHE:CE1	2.46	0.50
23:N:123:PHE:HZ	23:N:129:ILE:HB	1.77	0.50
24:O:69:PHE:CE2	24:O:78:VAL:CG2	2.94	0.50
24:O:283:HIS:NE2	24:O:287:LEU:CD1	2.56	0.50
24:O:293:LEU:HG	24:O:297:ILE:CD1	2.42	0.50
25:P:320:PRO:O	25:P:321:VAL:HB	2.12	0.50
27:R:83:GLU:HG3	27:R:83:GLU:O	2.12	0.50
27:R:301:TYR:HE2	27:R:359:VAL:CG1	2.25	0.50
35:Z:124:MET:SD	35:Z:153:TYR:HA	2.52	0.50
35:Z:228:GLU:OE2	35:Z:259:PRO:HG3	2.12	0.50
35:Z:857:LEU:HD22	35:Z:908:ILE:HG21	1.94	0.50
2:2:104:ASP:OD1	2:2:106:THR:OG1	2.24	0.49
3:3:140:MET:HE3	3:3:144:LEU:HD11	1.94	0.49
5:5:6:PHE:CE1	5:5:13:ILE:CB	2.79	0.49
6:6:114:TYR:CE2	6:6:124:ARG:HB2	2.46	0.49
7:7:62:LEU:HD11	7:7:87:TYR:CE2	2.47	0.49
7:7:95:ARG:HH12	7:7:102:LEU:HD13	1.73	0.49
8:8:253:LYS:NZ	9:9:64:GLU:HB3	2.09	0.49
10:A:128:TYR:HD1	10:A:131:ARG:HD2	1.76	0.49
10:A:162:TYR:CZ	20:K:428:LYS:CB	2.86	0.49
11:B:140:ASP:OD1	11:B:140:ASP:O	2.30	0.49
14:E:123:PHE:O	14:E:123:PHE:CD1	2.65	0.49
18:I:102:ASN:ND2	19:J:83:LYS:HZ1	2.10	0.49
18:I:244:PHE:CE1	18:I:246:ARG:NE	2.78	0.49
18:I:361:ILE:O	18:I:365:HIS:CD2	2.65	0.49
20:K:360:MET:HE1	20:K:407:LEU:HD21	1.94	0.49
22:M:175:LYS:HZ3	22:M:240:ASN:HB3	1.77	0.49
22:M:309:LEU:HD22	22:M:342:ARG:HG2	1.93	0.49
23:N:542:SER:CB	23:N:547:LEU:CD1	2.90	0.49
23:N:671:LEU:HD22	23:N:782:PHE:HE1	1.76	0.49
25:P:289:ASN:O	25:P:290:LEU:HB2	2.10	0.49
26:Q:178:HIS:HB2	26:Q:201:ALA:HB2	1.94	0.49
27:R:263:ARG:HH11	27:R:296:LEU:C	2.20	0.49
27:R:308:LEU:HD13	27:R:334:ARG:CD	2.41	0.49
27:R:334:ARG:O	27:R:338:TYR:CD2	2.65	0.49
28:S:227:ASN:OD1	28:S:263:ASP:CG	2.55	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U:20:ASP:O	30:U:24:ARG:HG3	2.11	0.49
31:V:114:PHE:N	31:V:118:LEU:HD23	2.17	0.49
33:X:67:ILE:HG12	33:X:95:GLU:OE2	2.12	0.49
35:Z:142:ASP:OD2	35:Z:202:ARG:HB2	2.11	0.49
35:Z:442:VAL:O	35:Z:448:LYS:HE3	2.12	0.49
4:4:168:GLU:OE2	4:4:175:PHE:CD1	2.65	0.49
5:5:66:HIS:HE1	5:5:70:GLU:OE2	1.94	0.49
15:F:49:LEU:HD11	15:F:210:ASN:HB3	1.93	0.49
15:F:65:LYS:HG3	15:F:222:PHE:CD2	2.47	0.49
15:F:166:GLN:CB	22:M:381:ARG:CZ	2.86	0.49
16:G:206:ASN:HD21	16:G:209:LYS:HB2	1.76	0.49
19:J:219:VAL:CG1	20:K:281:ARG:CD	2.89	0.49
20:K:179:MET:O	20:K:183:GLU:HG3	2.12	0.49
20:K:198:TYR:CB	20:K:205:PRO:HG3	2.42	0.49
20:K:352:ILE:HG22	20:K:383:ILE:HG22	1.94	0.49
20:K:353:PHE:CD1	20:K:387:MET:CG	2.94	0.49
21:L:174:GLU:HG2	21:L:175:GLN:CD	2.38	0.49
21:L:309:LEU:CD2	21:L:342:ARG:HE	2.10	0.49
23:N:486:GLY:HA2	23:N:524:ILE:CG2	2.42	0.49
24:O:157:LEU:HD22	24:O:171:PHE:CG	2.47	0.49
26:Q:326:MET:HE3	26:Q:332:ARG:CG	2.43	0.49
27:R:312:TYR:CD2	34:Y:73:PHE:CD1	3.00	0.49
28:S:144:LEU:C	28:S:155:LEU:HD13	2.38	0.49
29:T:28:PRO:CB	29:T:29:PRO:HD3	2.34	0.49
29:T:189:ILE:HG21	29:T:209:LEU:CD2	2.42	0.49
31:V:145:GLN:HB3	31:V:152:VAL:HG21	1.94	0.49
32:W:182:TYR:C	32:W:183:GLU:HG3	2.31	0.49
33:X:10:PHE:C	33:X:33:ILE:CG2	2.82	0.49
35:Z:502:ASN:CG	35:Z:505:VAL:HG23	2.36	0.49
35:Z:531:ALA:HA	35:Z:573:LEU:HG	1.93	0.49
35:Z:866:VAL:HA	35:Z:877:THR:HG22	1.93	0.49
1:1:142:PHE:HA	1:1:146:MET:CE	2.42	0.49
5:5:177:LEU:HD12	5:5:191:HIS:HE2	1.76	0.49
6:6:147:PHE:CE2	6:6:163:LEU:HA	2.48	0.49
7:7:8:TYR:CE1	7:7:12:VAL:N	2.81	0.49
7:7:33:ARG:NH1	7:7:52:MET:HE1	2.26	0.49
8:8:318:PHE:C	9:9:71:LEU:CD2	2.35	0.49
11:B:43:VAL:CG1	11:B:214:ILE:HB	2.42	0.49
14:E:208:MET:HE1	14:E:212:LEU:HA	1.95	0.49
16:G:86:HIS:NE2	16:G:90:ARG:CZ	2.74	0.49
19:J:27:ILE:HA	20:K:51:LEU:HD22	1.87	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:L:403:ILE:CG2	22:M:203:ARG:HH11	2.25	0.49
22:M:203:ARG:CB	22:M:206:LYS:HD2	2.37	0.49
23:N:137:PHE:CE2	23:N:165:ILE:HG13	2.43	0.49
23:N:192:LEU:C	23:N:192:LEU:HD23	2.36	0.49
23:N:782:PHE:HD1	23:N:875:LEU:CD2	2.20	0.49
24:O:196:LEU:HD21	24:O:242:ILE:HD11	1.93	0.49
26:Q:162:LEU:CD1	26:Q:178:HIS:CD2	2.95	0.49
28:S:187:ILE:HG23	28:S:188:TYR:N	2.27	0.49
28:S:234:ILE:HG22	28:S:257:LEU:HD13	1.94	0.49
30:U:276:ILE:HB	31:V:291:ASN:HD22	1.78	0.49
33:X:8:ILE:HG22	33:X:124:LYS:CE	2.42	0.49
33:X:66:LEU:HD12	33:X:97:TYR:CB	2.42	0.49
1:1:178:LEU:HD23	1:1:183:VAL:HG13	1.94	0.49
10:A:74:CYS:HG	10:A:233:PHE:HD2	1.58	0.49
10:A:87:ILE:HG23	10:A:88:PRO:HD3	1.92	0.49
12:C:9:ARG:CZ	13:D:6:ARG:HH12	2.25	0.49
12:C:176:LEU:HD21	12:C:196:THR:HG21	1.94	0.49
13:D:34:VAL:HG22	13:D:163:THR:OG1	2.12	0.49
17:H:96:PRO:O	17:H:97:LEU:HB3	2.11	0.49
20:K:153:ASP:HB2	21:L:110:LYS:HZ2	1.77	0.49
22:M:43:ILE:HD13	32:W:26:PHE:HE2	1.77	0.49
23:N:14:ARG:NH2	23:N:42:GLU:OE1	2.42	0.49
23:N:253:LEU:HD13	23:N:894:ARG:HE	1.77	0.49
23:N:326:SER:H	31:V:182:LYS:CG	2.24	0.49
24:O:179:PHE:CE2	24:O:187:SER:HB3	2.47	0.49
25:P:394:ASN:OD1	25:P:396:PRO:HD2	2.13	0.49
26:Q:7:LYS:HB3	26:Q:30:LEU:HD22	1.94	0.49
26:Q:291:TYR:CZ	26:Q:293:SER:CB	2.95	0.49
27:R:271:ILE:O	27:R:272:ASP:HB2	2.11	0.49
27:R:320:LYS:HE3	27:R:324:ARG:CZ	2.42	0.49
31:V:108:TYR:HA	31:V:139:VAL:O	2.12	0.49
33:X:73:THR:HG21	33:X:91:PHE:HE1	1.76	0.49
35:Z:133:ASP:CB	35:Z:137:TYR:CG	2.94	0.49
35:Z:265:LEU:HB3	35:Z:288:LEU:HD11	1.93	0.49
35:Z:424:SER:OG	35:Z:457:ILE:HD13	2.13	0.49
35:Z:429:ASN:C	35:Z:430:LEU:HG	2.31	0.49
1:1:-2:LEU:C	1:1:-2:LEU:HD12	2.37	0.49
2:2:83:LEU:HD23	2:2:113:ILE:HG12	1.93	0.49
3:3:146:GLU:O	3:3:149:LEU:HD11	2.12	0.49
5:5:124:GLY:HA3	5:5:127:PHE:CZ	2.48	0.49
7:7:169:ILE:HG21	7:7:189:LEU:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:F:2:PHE:HB2	15:F:5:ASN:ND2	2.27	0.49
15:F:13:PHE:CZ	16:G:129:ARG:HG2	2.48	0.49
16:G:10:SER:O	16:G:11:ASN:OD1	2.30	0.49
17:H:271:PHE:CE1	17:H:273:ARG:CZ	2.95	0.49
18:I:361:ILE:HB	18:I:392:ILE:HD13	1.93	0.49
18:I:376:ASN:OD1	18:I:378:GLU:HB2	2.12	0.49
19:J:193:THR:OG1	19:J:316:PHE:CE1	2.51	0.49
20:K:304:ASP:HB2	20:K:333:ARG:CZ	2.43	0.49
22:M:129:LEU:C	22:M:129:LEU:HD12	2.37	0.49
23:N:43:LEU:HD11	23:N:69:TYR:CZ	2.47	0.49
23:N:208:ARG:HG2	23:N:232:LEU:HD13	1.94	0.49
24:O:76:LEU:HD21	24:O:121:ASP:OD1	2.08	0.49
24:O:222:LEU:CD2	24:O:270:ILE:HD12	2.42	0.49
29:T:143:SER:O	29:T:146:ILE:HG22	2.13	0.49
1:1:83:LYS:CE	1:1:119:VAL:HG23	2.42	0.49
3:3:133:ALA:O	3:3:137:LEU:HG	2.12	0.49
7:7:6:MET:HE1	7:7:165:ALA:HA	1.93	0.49
17:H:168:ILE:CG1	17:H:186:PRO:HB2	2.40	0.49
18:I:244:PHE:CZ	18:I:280:PHE:CG	3.01	0.49
19:J:166:LEU:CB	19:J:174:PHE:CZ	2.95	0.49
19:J:236:MET:HE3	19:J:240:HIS:CE1	2.47	0.49
19:J:324:ARG:HH22	19:J:352:GLY:H	1.60	0.49
20:K:198:TYR:HB3	20:K:205:PRO:HG3	1.95	0.49
21:L:286:ILE:HB	21:L:304:THR:HG21	1.94	0.49
23:N:238:ALA:HB1	23:N:242:PHE:HE2	1.78	0.49
29:T:89:TYR:HE1	29:T:102:LYS:HZ2	1.53	0.49
30:U:22:TYR:CE1	30:U:27:THR:HG22	2.48	0.49
30:U:85:ALA:O	30:U:86:LYS:HG3	2.13	0.49
35:Z:129:ASN:OD1	35:Z:156:HIS:NE2	2.46	0.49
35:Z:471:LEU:CG	35:Z:497:PHE:CE2	2.71	0.49
35:Z:551:LEU:HD23	35:Z:551:LEU:C	2.38	0.49
1:1:87:TYR:OH	7:7:51:ASP:OD1	2.16	0.49
2:2:35:HIS:HE1	2:2:53:GLU:HG2	1.78	0.49
3:3:80:GLN:HG2	11:B:102:GLY:CA	2.42	0.49
3:3:129:VAL:HG22	3:3:138:PHE:CE1	2.48	0.49
10:A:167:LYS:HE3	11:B:57:MET:HG2	1.94	0.49
22:M:307:GLU:CD	22:M:311:GLN:HE21	2.19	0.49
23:N:414:GLY:HA3	23:N:728:LYS:HZ1	1.75	0.49
24:O:303:LYS:O	24:O:304:ASN:CG	2.55	0.49
26:Q:54:GLN:NE2	26:Q:81:SER:HB2	2.26	0.49
27:R:301:TYR:CD2	27:R:357:PHE:O	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:X:66:LEU:CD1	33:X:97:TYR:CG	2.95	0.49
35:Z:184:SER:OG	35:Z:185:ASP:N	2.43	0.49
35:Z:756:MET:HE3	35:Z:759:ARG:HH21	1.77	0.49
2:2:72:ARG:HD3	2:2:73:GLU:O	2.13	0.49
6:6:-6:PRO:CA	7:7:125:LEU:HD22	2.42	0.49
7:7:33:ARG:NH2	7:7:46:SER:HA	2.28	0.49
7:7:86:GLU:HG3	15:F:100:ASN:CB	2.28	0.49
11:B:174:PHE:CE2	11:B:198:GLU:OE1	2.66	0.49
12:C:68:LYS:HD2	12:C:229:ILE:CD1	2.42	0.49
12:C:149:TYR:OH	13:D:59:ILE:CG2	2.60	0.49
15:F:120:THR:HB	16:G:129:ARG:NH2	2.28	0.49
15:F:169:LYS:O	15:F:173:GLU:HG3	2.13	0.49
18:I:109:LEU:HD11	18:I:147:VAL:HG11	1.95	0.49
18:I:428:VAL:HG12	18:I:428:VAL:O	2.12	0.49
19:J:133:LEU:CD2	19:J:137:MET:HE1	2.43	0.49
20:K:192:LEU:HD11	20:K:268:ILE:HD11	1.94	0.49
23:N:19:SER:C	29:T:35:ILE:HG12	2.36	0.49
24:O:69:PHE:CD2	24:O:78:VAL:HG23	2.45	0.49
25:P:310:ARG:O	25:P:313:ILE:HB	2.13	0.49
26:Q:99:THR:HG22	26:Q:103:LYS:CG	2.43	0.49
27:R:404:VAL:HG23	30:U:278:ILE:HD11	1.94	0.49
28:S:138:MET:SD	28:S:178:LEU:HB2	2.52	0.49
29:T:132:HIS:CG	29:T:133:ILE:N	2.81	0.49
30:U:283:ARG:HH12	31:V:283:THR:HG22	1.77	0.49
33:X:121:ILE:O	33:X:125:MET:HG2	2.13	0.49
35:Z:567:ALA:HB1	35:Z:738:TYR:CE2	2.48	0.49
1:1:6:VAL:CG2	1:1:155:ILE:HD11	2.43	0.49
2:2:38:SER:HB3	2:2:39:PRO:HD2	1.95	0.49
4:4:37:LEU:HD13	4:4:79:VAL:HG11	1.95	0.49
5:5:147:ASP:O	5:5:148:LEU:HB2	2.13	0.49
6:6:91:LYS:HB2	6:6:96:TYR:OH	2.12	0.49
10:A:135:ARG:NE	16:G:124:LEU:CD2	2.74	0.49
11:B:3:ASP:OD1	11:B:3:ASP:O	2.31	0.49
13:D:188:VAL:HG21	13:D:216:LYS:HE2	1.94	0.49
14:E:93:ARG:O	14:E:97:VAL:HG23	2.13	0.49
14:E:231:TYR:HD2	14:E:236:THR:OG1	1.90	0.49
15:F:38:LEU:CG	15:F:189:LEU:HD11	2.40	0.49
19:J:200:ARG:HG2	19:J:210:PHE:CZ	2.48	0.49
20:K:210:LEU:HG	20:K:212:TYR:CD2	2.43	0.49
20:K:258:PHE:HE1	20:K:299:LEU:HD23	1.77	0.49
21:L:132:ARG:CG	21:L:133:ASN:H	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:M:371:ASP:OD2	22:M:411:LYS:HG2	2.12	0.49
23:N:710:GLY:O	23:N:711:ARG:HB2	2.11	0.49
24:O:377:VAL:CG1	30:U:193:GLN:NE2	2.72	0.49
28:S:322:LEU:HD21	28:S:327:ILE:HG22	1.94	0.49
29:T:85:LEU:CD2	29:T:105:LEU:HD13	2.43	0.49
35:Z:298:PHE:CZ	35:Z:310:LEU:HD13	2.48	0.49
2:2:35:HIS:CE1	2:2:53:GLU:HG2	2.48	0.49
12:C:13:PHE:HA	12:C:19:LEU:HD23	1.95	0.49
13:D:216:LYS:HB3	13:D:217:PRO:CD	2.43	0.49
18:I:104:LEU:O	19:J:95:ILE:HG22	2.13	0.49
18:I:408:ARG:HH12	18:I:411:VAL:HA	1.76	0.49
19:J:161:LYS:HG3	19:J:165:GLU:OE1	2.13	0.49
20:K:99:PHE:HZ	20:K:102:PRO:N	2.11	0.49
20:K:240:SER:CB	21:L:306:MET:CE	2.88	0.49
21:L:84:LEU:HD22	21:L:88:TYR:CZ	2.47	0.49
21:L:383:SER:O	21:L:384:ASP:OD1	2.31	0.49
24:O:112:LYS:O	24:O:113:LYS:HB2	2.13	0.49
24:O:188:PHE:CE2	24:O:220:SER:HB3	2.47	0.49
26:Q:162:LEU:HD13	26:Q:178:HIS:CD2	2.47	0.49
26:Q:314:PHE:CD2	26:Q:339:TYR:CE1	2.99	0.49
27:R:79:LEU:HD13	27:R:93:LYS:NZ	2.28	0.49
28:S:235:ASN:HB2	28:S:272:TYR:CE1	2.48	0.49
30:U:19:LEU:HD12	30:U:127:GLN:NE2	2.25	0.49
30:U:32:ARG:HG3	30:U:100:ARG:NH1	2.27	0.49
31:V:168:LEU:HD12	31:V:182:LYS:NZ	2.28	0.49
35:Z:55:ARG:HG2	35:Z:60:ASP:OD2	2.13	0.49
3:3:64:LEU:CD2	12:C:92:ARG:HB3	2.43	0.48
5:5:55:TRP:CZ3	5:5:86:LEU:HD13	2.47	0.48
5:5:63:CYS:SG	5:5:74:ILE:HD13	2.53	0.48
8:8:388:MSE:HE2	8:8:392:GLU:HB3	1.94	0.48
11:B:177:LYS:NZ	26:Q:168:LEU:HA	2.28	0.48
14:E:103:TYR:O	14:E:104:ASP:HB2	2.12	0.48
14:E:162:GLY:HA3	15:F:79:PRO:HG3	1.95	0.48
15:F:145:LEU:HD11	15:F:153:VAL:HG13	1.92	0.48
16:G:183:PRO:HD2	16:G:186:LEU:HD23	1.94	0.48
18:I:380:LEU:O	18:I:384:LYS:HG3	2.12	0.48
19:J:88:VAL:HG21	19:J:91:GLU:HB2	1.95	0.48
20:K:173:ASP:HB3	20:K:221:MET:SD	2.52	0.48
20:K:200:GLN:CD	27:R:204:TRP:CZ3	2.88	0.48
21:L:75:LYS:HG2	21:L:78:ARG:NH2	2.28	0.48
23:N:124:TYR:CE1	23:N:125:THR:HG22	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:N:406:TYR:CE1	23:N:448:LEU:HB3	2.48	0.48
29:T:75:PHE:O	29:T:78:PHE:HB3	2.13	0.48
29:T:226:TRP:CZ2	29:T:235:PHE:CE2	2.82	0.48
33:X:31:GLY:HA2	33:X:53:THR:H	1.78	0.48
35:Z:392:LEU:CD1	35:Z:424:SER:O	2.50	0.48
8:8:448:TYR:HE1	9:9:75:GLY:HA3	1.77	0.48
10:A:75:ILE:HD11	10:A:81:MET:HE2	1.95	0.48
13:D:179:TYR:CE1	13:D:184:PRO:HB3	2.48	0.48
16:G:45:VAL:HG23	16:G:47:PHE:HE1	1.78	0.48
17:H:257:THR:HG22	17:H:261:ARG:HE	1.77	0.48
17:H:397:SER:C	17:H:398:VAL:HG13	2.37	0.48
18:I:387:LEU:CD2	18:I:427:LYS:HD3	2.44	0.48
19:J:375:ILE:O	27:R:204:TRP:CE2	2.66	0.48
21:L:336:ALA:HA	21:L:339:ARG:NE	2.27	0.48
21:L:364:HIS:O	21:L:368:VAL:HG23	2.13	0.48
22:M:193:LEU:HD23	22:M:347:ILE:HD13	1.95	0.48
23:N:338:PHE:CE2	23:N:749:LEU:HD23	2.48	0.48
24:O:277:ILE:CG2	24:O:279:ILE:HB	2.40	0.48
24:O:320:PRO:HD2	24:O:323:ASN:HD22	1.77	0.48
24:O:354:GLN:HG3	24:O:355:PRO:HD2	1.94	0.48
25:P:209:LYS:O	25:P:211:PRO:HD3	2.13	0.48
26:Q:318:LEU:HD11	26:Q:326:MET:SD	2.53	0.48
27:R:60:ALA:CB	27:R:102:LEU:CD2	2.91	0.48
27:R:79:LEU:HB2	27:R:93:LYS:HE2	1.95	0.48
28:S:230:LYS:HZ1	28:S:256:LYS:CE	2.23	0.48
29:T:209:LEU:HD13	29:T:211:PHE:HZ	1.67	0.48
29:T:225:ASN:HB2	29:T:241:GLU:HA	1.95	0.48
31:V:168:LEU:HD13	31:V:182:LYS:HD2	1.95	0.48
32:W:143:ASN:HD21	32:W:149:GLN:HG3	1.78	0.48
32:W:179:ARG:O	32:W:180:LEU:CB	2.61	0.48
33:X:40:GLU:O	33:X:41:GLU:HB2	2.13	0.48
33:X:41:GLU:HG3	33:X:45:PHE:O	2.13	0.48
35:Z:91:PHE:O	35:Z:94:PRO:HD2	2.14	0.48
35:Z:581:VAL:CG2	35:Z:603:VAL:HG12	2.42	0.48
35:Z:612:GLY:C	35:Z:616:LEU:HD12	2.38	0.48
1:1:-8:LYS:HE2	2:2:88:PHE:CD1	2.48	0.48
7:7:170:VAL:CG1	7:7:174:ARG:HH22	2.24	0.48
12:C:208:TYR:CE1	12:C:209:ASP:HB3	2.48	0.48
14:E:114:GLN:NE2	15:F:82:ARG:HD2	2.22	0.48
18:I:124:THR:O	18:I:125:MET:CB	2.60	0.48
18:I:349:LEU:HD12	18:I:349:LEU:C	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J:115:LEU:HD23	19:J:116:ARG:N	2.28	0.48
23:N:433:THR:HB	23:N:439:VAL:HG21	1.96	0.48
23:N:656:ALA:O	23:N:660:LEU:HG	2.14	0.48
25:P:204:LEU:HD22	25:P:240:TYR:CE2	2.48	0.48
27:R:214:TYR:CE1	27:R:218:CYS:SG	3.06	0.48
27:R:292:LEU:CD2	27:R:307:TYR:HB2	2.43	0.48
27:R:389:GLU:OE2	28:S:399:TYR:CE1	2.66	0.48
28:S:144:LEU:O	28:S:155:LEU:HD13	2.13	0.48
28:S:461:PHE:HE2	29:T:263:ALA:HB1	1.77	0.48
35:Z:400:ILE:HD12	35:Z:407:VAL:HG22	1.94	0.48
5:5:8:PHE:CZ	5:5:13:ILE:CG1	2.96	0.48
11:B:68:THR:OG1	11:B:71:ILE:HD12	2.14	0.48
11:B:180:ASN:O	11:B:181:ASP:CB	2.61	0.48
12:C:45:VAL:HG21	12:C:189:ALA:CB	2.43	0.48
14:E:35:SER:OG	14:E:51:GLU:HB2	2.14	0.48
14:E:122:ARG:HD3	14:E:131:GLU:O	2.13	0.48
14:E:231:TYR:CE2	14:E:236:THR:N	2.81	0.48
17:H:368:PRO:HA	17:H:372:ASP:OD1	2.13	0.48
20:K:49:PHE:CD1	23:N:192:LEU:HG	2.45	0.48
22:M:401:ILE:HG22	22:M:405:ASN:ND2	2.28	0.48
24:O:80:LYS:CG	24:O:81:TYR:CE2	2.97	0.48
24:O:185:PHE:HB2	24:O:223:LEU:HB3	1.86	0.48
25:P:101:MET:CE	25:P:139:VAL:HG22	2.43	0.48
25:P:415:TRP:CD2	30:U:265:LEU:HD11	2.49	0.48
26:Q:47:ASP:HA	26:Q:50:ARG:CB	2.42	0.48
26:Q:48:ASP:CG	26:Q:49:LYS:H	2.22	0.48
26:Q:232:TYR:OH	26:Q:271:MET:HE2	2.14	0.48
26:Q:350:ILE:HG22	26:Q:362:ILE:HG12	1.96	0.48
27:R:241:ILE:CG2	27:R:242:GLU:HG3	2.36	0.48
27:R:354:ALA:HA	27:R:364:LEU:HD22	1.95	0.48
28:S:471:LEU:HD12	30:U:288:PHE:CE2	2.48	0.48
30:U:38:LEU:HD11	30:U:87:GLU:HG2	1.95	0.48
31:V:106:GLY:O	31:V:107:TRP:CD1	2.66	0.48
31:V:161:THR:CA	31:V:189:ILE:HD11	2.32	0.48
31:V:212:MET:HG3	31:V:212:MET:O	2.13	0.48
1:1:122:LEU:CD2	7:7:28:PHE:HD1	2.12	0.48
7:7:201:LYS:HB3	7:7:204:LEU:HD11	1.94	0.48
10:A:25:LEU:HD11	11:B:128:ARG:NH2	2.28	0.48
10:A:111:ASP:OD1	10:A:112:MET:N	2.45	0.48
11:B:109:LEU:O	11:B:113:GLU:HG2	2.13	0.48
15:F:190:ILE:HG21	15:F:233:TYR:CD1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:H:168:ILE:HD13	17:H:174:VAL:HG11	1.94	0.48
20:K:67:TYR:CD1	20:K:67:TYR:C	2.92	0.48
20:K:77:ARG:HB3	20:K:81:ARG:HH12	1.78	0.48
20:K:246:TYR:CG	20:K:247:LEU:N	2.81	0.48
21:L:177:GLU:HG2	21:L:233:LYS:HD3	1.95	0.48
21:L:375:ASP:OD1	21:L:377:GLU:HB2	2.14	0.48
22:M:166:ARG:C	22:M:167:VAL:HG22	2.39	0.48
22:M:383:THR:HB	22:M:386:PHE:CG	2.48	0.48
24:O:366:MET:O	24:O:370:LEU:HG	2.13	0.48
31:V:261:LEU:HB3	31:V:280:LEU:CD1	2.43	0.48
35:Z:358:TYR:CE1	35:Z:910:PRO:HG2	2.48	0.48
35:Z:551:LEU:HD23	35:Z:551:LEU:O	2.13	0.48
2:2:104:ASP:HB2	2:2:105:PRO:HD2	1.95	0.48
3:3:17:ASP:C	3:3:17:ASP:OD1	2.56	0.48
10:A:19:PHE:HE1	11:B:78:MET:HE1	1.77	0.48
12:C:206:LEU:CD1	12:C:211:LEU:HD11	2.43	0.48
19:J:78:ILE:HD11	19:J:107:LEU:HB3	1.95	0.48
19:J:119:SER:C	19:J:120:TYR:CD1	2.91	0.48
19:J:124:LYS:NZ	20:K:103:ILE:HG21	2.23	0.48
19:J:300:LEU:C	19:J:304:LEU:HD12	2.35	0.48
20:K:415:VAL:HG13	20:K:416:LYS:HG2	1.94	0.48
23:N:556:ALA:HB1	23:N:593:PHE:HB2	1.94	0.48
24:O:42:SER:O	24:O:46:THR:OG1	2.31	0.48
25:P:274:GLY:HA3	25:P:344:ARG:NH2	2.28	0.48
26:Q:76:GLU:O	26:Q:79:PRO:HD2	2.14	0.48
27:R:105:LYS:O	27:R:109:LYS:HG2	2.14	0.48
33:X:100:TRP:HZ2	33:X:110:PRO:CD	2.26	0.48
35:Z:318:LYS:CE	35:Z:459:ALA:O	2.58	0.48
3:3:69:GLU:OE2	11:B:109:LEU:HB2	2.14	0.48
4:4:60:GLN:HE21	4:4:64:GLN:CD	2.21	0.48
7:7:108:VAL:CG1	7:7:118:PHE:HE2	2.27	0.48
10:A:135:ARG:CZ	16:G:124:LEU:CD2	2.92	0.48
11:B:189:ILE:HG21	11:B:246:ARG:CD	2.43	0.48
12:C:86:ILE:O	12:C:90:THR:HG23	2.13	0.48
12:C:213:PHE:CD2	12:C:230:PHE:CE2	2.99	0.48
16:G:108:ILE:HG22	16:G:148:TYR:CE1	2.49	0.48
20:K:97:GLY:HA3	20:K:139:LEU:HD11	1.94	0.48
23:N:69:TYR:CE2	23:N:81:TYR:CE2	3.01	0.48
23:N:262:VAL:HA	23:N:270:LEU:HD21	1.95	0.48
23:N:714:THR:CG2	23:N:756:THR:OG1	2.57	0.48
23:N:742:TRP:HB3	23:N:745:LEU:HD22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:N:771:PHE:CE2	23:N:885:ILE:HG21	2.48	0.48
24:O:48:PHE:CD1	24:O:81:TYR:CE2	3.01	0.48
25:P:233:GLU:HG3	25:P:236:GLU:H	1.78	0.48
25:P:241:LEU:HB3	25:P:264:ILE:CD1	2.44	0.48
26:Q:151:TYR:CE2	26:Q:187:LYS:CB	2.96	0.48
27:R:34:THR:HA	27:R:70:TYR:CE1	2.48	0.48
27:R:312:TYR:CE2	34:Y:73:PHE:HD1	2.27	0.48
30:U:18:ALA:CB	30:U:125:VAL:HG11	2.41	0.48
32:W:48:THR:H	32:W:103:ASN:HD21	1.62	0.48
35:Z:740:VAL:HA	35:Z:743:ILE:HD12	1.96	0.48
1:1:13:ILE:HG21	1:1:151:THR:HG22	1.96	0.48
5:5:4:LEU:C	5:5:4:LEU:HD12	2.39	0.48
5:5:35:ILE:HG21	5:5:56:GLU:HB2	1.95	0.48
8:8:329:ILE:N	17:H:163:VAL:HG22	2.28	0.48
12:C:224:GLU:O	12:C:225:VAL:HB	2.14	0.48
13:D:215:VAL:HG13	13:D:221:ILE:HG12	1.96	0.48
15:F:130:VAL:O	15:F:149:PRO:HB3	2.13	0.48
15:F:135:ILE:HG22	15:F:144:LEU:CD1	2.43	0.48
17:H:312:ASP:OD1	17:H:360:THR:CG2	2.61	0.48
18:I:328:THR:HG23	18:I:330:LYS:O	2.13	0.48
20:K:294:ARG:HH12	20:K:298:GLU:HB2	1.79	0.48
22:M:228:LYS:NZ	22:M:327:THR:H	2.12	0.48
24:O:233:LEU:HD13	24:O:251:LEU:HD13	1.95	0.48
28:S:223:LEU:CD2	28:S:230:LYS:HG2	2.44	0.48
28:S:376:THR:HG23	28:S:378:GLN:HG2	1.95	0.48
35:Z:357:ILE:HG23	35:Z:960:GLY:C	2.38	0.48
35:Z:955:VAL:CG2	35:Z:956:LEU:N	2.76	0.48
1:1:19:ARG:NH2	1:1:26:ILE:HD13	2.27	0.48
1:1:175:MET:CE	1:1:188:PHE:CE1	2.96	0.48
7:7:83:TYR:CD2	15:F:101:ARG:NE	2.81	0.48
8:8:116:ASN:HA	9:9:76:GLZ:O	1.93	0.48
8:8:484:GLY:CA	17:H:187:LEU:HD23	2.42	0.48
12:C:198:SER:CA	12:C:206:LEU:HD22	2.44	0.48
15:F:156:LEU:HD22	15:F:159:THR:HB	1.95	0.48
16:G:45:VAL:HG23	16:G:47:PHE:CE1	2.49	0.48
16:G:115:LEU:HB3	16:G:150:LEU:CD2	2.44	0.48
16:G:182:HIS:CB	16:G:186:LEU:HG	2.43	0.48
17:H:105:ILE:H	17:H:170:GLU:CD	2.22	0.48
18:I:265:ARG:HA	18:I:312:GLN:HE22	1.79	0.48
21:L:277:ILE:HG23	21:L:324:ILE:HD12	1.96	0.48
23:N:365:PHE:CE2	23:N:403:GLY:HA2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:N:479:GLU:HB2	23:N:512:ASN:OD1	2.11	0.48
24:O:269:LEU:HD23	24:O:270:ILE:HG13	1.96	0.48
25:P:234:TYR:CE2	25:P:267:PHE:O	2.66	0.48
26:Q:66:VAL:HG23	26:Q:109:ASP:HB3	1.96	0.48
28:S:293:ILE:HG21	28:S:317:HIS:HB2	1.96	0.48
29:T:39:LEU:O	29:T:40:LEU:CG	2.61	0.48
32:W:132:LEU:CD2	32:W:137:VAL:HG21	2.44	0.48
35:Z:737:ALA:CB	35:Z:775:MET:CE	2.91	0.48
35:Z:868:ASN:OD1	35:Z:871:HIS:N	2.46	0.48
1:1:82:PHE:CD2	1:1:99:VAL:HG21	2.49	0.48
10:A:57:LYS:HE3	10:A:69:VAL:HG12	1.83	0.48
10:A:126:GLN:NE2	10:A:130:GLN:CD	2.72	0.48
12:C:144:TYR:HB2	12:C:147:GLN:HE21	1.79	0.48
15:F:216:VAL:HG12	15:F:222:PHE:HA	1.95	0.48
21:L:280:MET:HE3	21:L:323:ILE:CG2	2.44	0.48
22:M:252:VAL:CG2	22:M:285:ALA:HB1	2.41	0.48
23:N:321:LEU:C	23:N:321:LEU:HD12	2.39	0.48
24:O:120:LYS:HB2	24:O:166:ARG:HD2	1.96	0.48
25:P:218:LEU:HD21	25:P:256:LYS:HZ3	1.76	0.48
26:Q:261:VAL:HG13	26:Q:262:LEU:N	2.29	0.48
28:S:390:THR:HA	28:S:393:ARG:NH2	2.29	0.48
29:T:86:LYS:NZ	29:T:125:GLU:HG3	2.28	0.48
29:T:89:TYR:CE1	29:T:102:LYS:CE	2.97	0.48
30:U:38:LEU:HG	30:U:87:GLU:HG2	1.96	0.48
33:X:89:LEU:HG	33:X:91:PHE:CE2	2.48	0.48
33:X:90:VAL:HG12	33:X:92:SER:H	1.79	0.48
34:Y:82:ASP:HB3	34:Y:86:ARG:NH1	2.29	0.48
35:Z:237:VAL:CG1	35:Z:245:VAL:HG11	2.26	0.48
35:Z:370:SER:OG	35:Z:390:LEU:CD1	2.61	0.48
4:4:33:LYS:O	4:4:34:THR:CG2	2.62	0.47
11:B:12:PHE:HZ	12:C:129:ARG:NH2	2.12	0.47
13:D:32:CYS:SG	13:D:166:ARG:O	2.68	0.47
13:D:129:PHE:HB3	13:D:131:VAL:HG12	1.96	0.47
18:I:362:LEU:HD21	18:I:377:LEU:HD23	1.96	0.47
19:J:52:ASN:HD21	23:N:613:HIS:H	1.61	0.47
19:J:135:SER:O	19:J:136:LEU:HB2	2.14	0.47
19:J:160:ILE:HD11	19:J:314:ILE:HG21	1.96	0.47
21:L:373:GLU:C	21:L:374:PHE:HD1	2.21	0.47
26:Q:308:ASN:O	26:Q:309:ARG:HB2	2.12	0.47
27:R:167:LYS:HD3	27:R:202:GLY:HA2	1.94	0.47
27:R:301:TYR:CZ	27:R:338:TYR:CE1	3.01	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:R:320:LYS:HE3	27:R:324:ARG:NE	2.28	0.47
27:R:339:ALA:HA	27:R:377:LEU:HD11	1.95	0.47
28:S:138:MET:HE1	28:S:178:LEU:CD1	2.44	0.47
29:T:107:SER:OG	29:T:174:PHE:HZ	1.96	0.47
33:X:11:ARG:HB2	33:X:103:GLU:CG	2.32	0.47
35:Z:546:ILE:HG21	35:Z:566:LEU:HD21	1.96	0.47
1:1:66:TYR:HE2	1:1:73:PRO:N	2.11	0.47
5:5:77:ALA:CA	5:5:121:ARG:HH21	2.28	0.47
6:6:21:ILE:HD11	6:6:188:GLN:HG2	1.96	0.47
7:7:172:ALA:O	7:7:175:VAL:HB	2.14	0.47
13:D:190:GLU:OE1	13:D:193:LYS:CE	2.62	0.47
16:G:39:ILE:HD11	16:G:198:ILE:HD12	1.96	0.47
16:G:78:SER:HB2	16:G:164:THR:HG23	1.96	0.47
17:H:142:ASP:HB3	17:H:157:VAL:HG13	1.95	0.47
17:H:431:ILE:HG22	18:I:196:GLU:OE2	2.14	0.47
21:L:183:ILE:HD12	21:L:231:LEU:HD23	1.94	0.47
21:L:370:LYS:CD	21:L:374:PHE:CZ	2.96	0.47
21:L:372:GLY:O	21:L:374:PHE:HE1	1.95	0.47
24:O:76:LEU:CD2	24:O:121:ASP:CG	2.82	0.47
25:P:109:SER:O	25:P:112:LEU:HB3	2.14	0.47
27:R:93:LYS:HG2	27:R:94:PHE:N	2.29	0.47
35:Z:466:GLU:OE1	35:Z:466:GLU:N	2.34	0.47
35:Z:552:GLU:O	35:Z:553:ARG:CB	2.61	0.47
2:2:8:PHE:HE1	2:2:12:VAL:O	1.95	0.47
2:2:220:ILE:HD12	3:3:39:HIS:ND1	2.29	0.47
5:5:54:PHE:HB2	6:6:85:GLN:HE22	1.79	0.47
6:6:77:ILE:CD1	6:6:102:ILE:HD12	2.44	0.47
6:6:106:ASP:C	6:6:106:ASP:OD1	2.57	0.47
8:8:276:LEU:HB3	8:8:344:MSE:HE1	1.96	0.47
10:A:57:LYS:NZ	10:A:69:VAL:CG1	2.77	0.47
18:I:289:THR:O	18:I:306:MET:SD	2.72	0.47
19:J:112:ARG:HD3	19:J:129:LYS:HD2	1.96	0.47
19:J:224:GLY:O	19:J:227:SER:N	2.47	0.47
21:L:253:ASP:HA	22:M:256:ILE:CG1	2.45	0.47
22:M:77:TYR:CE2	22:M:79:VAL:HG12	2.49	0.47
23:N:596:LEU:HD13	23:N:717:LEU:CD2	2.42	0.47
23:N:771:PHE:CE2	23:N:885:ILE:HG13	2.49	0.47
26:Q:233:LYS:O	26:Q:236:PHE:HB3	2.14	0.47
27:R:292:LEU:CD2	27:R:307:TYR:CB	2.91	0.47
30:U:54:LEU:HD12	30:U:55:PRO:HD2	1.95	0.47
35:Z:312:TYR:OH	35:Z:348:LEU:HB3	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:Z:406:TRP:O	35:Z:410:THR:HG23	2.14	0.47
35:Z:446:GLU:CD	35:Z:484:LYS:HZ3	2.22	0.47
35:Z:813:PHE:CE2	35:Z:885:ALA:HB2	2.49	0.47
1:1:4:MET:HE3	1:1:159:LEU:HD23	1.96	0.47
7:7:77:GLU:O	7:7:77:GLU:HG3	2.15	0.47
8:8:283:LYS:N	9:9:12:THR:CA	2.62	0.47
8:8:330:LEU:HD11	17:H:166:THR:CG2	2.26	0.47
10:A:89:ASP:HB3	10:A:139:VAL:HG13	1.96	0.47
14:E:12:VAL:HG11	14:E:124:GLY:HA3	1.96	0.47
15:F:80:ASP:OD1	15:F:126:ARG:NH2	2.48	0.47
16:G:37:ILE:C	16:G:37:ILE:HD12	2.39	0.47
19:J:225:GLU:OE2	19:J:228:ARG:NH2	2.25	0.47
20:K:129:GLU:O	20:K:130:LEU:HD23	2.14	0.47
22:M:165:SER:OG	22:M:168:LYS:HB2	2.14	0.47
23:N:539:MET:HE3	23:N:547:LEU:O	2.14	0.47
24:O:79:VAL:HG23	24:O:122:HIS:CD2	2.49	0.47
25:P:234:TYR:HD2	25:P:267:PHE:CD2	2.32	0.47
25:P:299:LEU:HD23	25:P:302:LEU:HD12	1.95	0.47
27:R:62:TYR:CE2	27:R:180:PHE:CZ	3.02	0.47
30:U:83:ILE:HD13	31:V:70:ALA:HB3	1.95	0.47
31:V:107:TRP:CE2	31:V:129:PHE:CZ	3.02	0.47
1:1:59:VAL:HG22	1:1:81:VAL:HG12	1.95	0.47
10:A:12:TYR:HB2	10:A:15:HIS:CD2	2.48	0.47
11:B:13:SER:HB3	11:B:14:PRO:HD2	1.97	0.47
13:D:149:GLN:OE1	13:D:162:GLN:HG2	2.15	0.47
14:E:226:ASP:O	14:E:226:ASP:OD1	2.32	0.47
16:G:47:PHE:O	16:G:215:ILE:HG13	2.15	0.47
17:H:65:GLU:HG3	18:I:133:LEU:CB	2.44	0.47
17:H:217:GLN:CG	17:H:376:GLU:CD	2.87	0.47
19:J:200:ARG:HG2	19:J:210:PHE:CE2	2.50	0.47
21:L:206:ILE:CG1	21:L:209:ARG:NH2	2.76	0.47
21:L:224:PRO:HA	21:L:228:LYS:HE2	1.97	0.47
23:N:771:PHE:HE2	23:N:885:ILE:HG13	1.79	0.47
24:O:258:LEU:HD23	24:O:287:LEU:CD2	2.22	0.47
25:P:327:LEU:O	25:P:328:ALA:CB	2.61	0.47
26:Q:109:ASP:O	26:Q:109:ASP:OD1	2.32	0.47
26:Q:135:HIS:CG	26:Q:161:LEU:HD23	2.33	0.47
27:R:208:ASN:OD1	27:R:238:PHE:HB2	2.14	0.47
28:S:159:ASN:HB3	28:S:187:ILE:HD13	1.96	0.47
28:S:234:ILE:CG2	28:S:257:LEU:HD13	2.44	0.47
31:V:52:LEU:CD1	31:V:107:TRP:CE3	2.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:V:57:PHE:HE2	31:V:59:ASP:HB3	1.78	0.47
35:Z:351:PRO:O	35:Z:352:LYS:HB2	2.14	0.47
35:Z:446:GLU:CG	35:Z:484:LYS:HZ3	2.26	0.47
1:1:25:TYR:HE2	2:2:132:LEU:HB2	1.80	0.47
2:2:72:ARG:NH2	2:2:75:ARG:HH12	2.11	0.47
3:3:61:LYS:HZ3	3:3:85:SER:HB3	1.77	0.47
10:A:140:ILE:HG12	10:A:159:PRO:HD3	1.96	0.47
12:C:50:ARG:HD2	12:C:212:GLU:OE2	2.15	0.47
12:C:115:LEU:HD12	12:C:137:TYR:OH	2.15	0.47
15:F:65:LYS:CB	15:F:222:PHE:CE2	2.98	0.47
15:F:182:ILE:CD1	15:F:188:GLU:HG2	2.45	0.47
18:I:324:VAL:HG12	18:I:326:MET:HG3	1.97	0.47
19:J:236:MET:HE3	19:J:240:HIS:HE1	1.80	0.47
19:J:277:ASN:HB2	19:J:309:ARG:NH1	2.30	0.47
21:L:133:ASN:O	21:L:134:SER:CB	2.63	0.47
22:M:196:ALA:HB1	22:M:345:ARG:HG3	1.96	0.47
22:M:361:LEU:CB	22:M:376:TRP:CE3	2.96	0.47
23:N:158:LEU:CD1	23:N:192:LEU:HD22	2.45	0.47
26:Q:266:LEU:HD23	26:Q:281:ILE:HD12	1.96	0.47
30:U:79:MET:CE	31:V:90:LYS:HE2	2.45	0.47
30:U:127:GLN:CG	31:V:212:MET:CB	2.93	0.47
32:W:25:ARG:NH2	32:W:115:CYS:HA	2.30	0.47
35:Z:737:ALA:O	35:Z:740:VAL:HG12	2.15	0.47
35:Z:768:GLY:O	35:Z:769:ASN:CB	2.63	0.47
35:Z:874:ASN:OD1	35:Z:876:VAL:HB	2.14	0.47
4:4:15:ALA:HB1	4:4:178:VAL:HG21	1.96	0.47
7:7:1:THR:O	7:7:2:SER:HB2	2.15	0.47
8:8:253:LYS:HZ2	9:9:64:GLU:CD	2.22	0.47
8:8:320:LYS:HD2	17:H:164:SER:OG	2.15	0.47
10:A:31:ALA:HA	16:G:14:PHE:CE2	2.50	0.47
10:A:71:TYR:OH	16:G:157:TRP:CZ2	2.67	0.47
10:A:87:ILE:HG22	10:A:88:PRO:HD3	1.96	0.47
11:B:67:LEU:HD11	11:B:73:ALA:HB2	1.97	0.47
14:E:219:LEU:HB2	14:E:231:TYR:CD2	2.50	0.47
15:F:227:GLY:O	15:F:230:VAL:HG22	2.14	0.47
16:G:108:ILE:CG2	16:G:148:TYR:CE1	2.97	0.47
17:H:334:LEU:CD2	22:M:282:GLU:HG2	2.42	0.47
18:I:93:LYS:O	18:I:97:GLU:HG2	2.15	0.47
18:I:380:LEU:HD11	18:I:416:PHE:CB	2.45	0.47
19:J:219:VAL:O	19:J:219:VAL:HG12	2.15	0.47
19:J:220:GLN:OE1	20:K:290:ARG:HD3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:K:49:PHE:CE1	23:N:192:LEU:CB	2.98	0.47
20:K:222:LEU:O	20:K:226:VAL:HG23	2.15	0.47
23:N:190:LEU:HD23	23:N:190:LEU:C	2.40	0.47
23:N:576:VAL:HG13	23:N:577:SER:N	2.30	0.47
23:N:741:TYR:HD2	23:N:742:TRP:CZ3	2.33	0.47
24:O:129:ILE:O	24:O:133:ILE:HB	2.15	0.47
24:O:257:ALA:HA	24:O:265:LYS:HG2	1.96	0.47
25:P:342:GLN:O	25:P:345:VAL:HG12	2.14	0.47
26:Q:9:GLU:O	26:Q:13:ARG:HG3	2.14	0.47
26:Q:272:LEU:CD2	26:Q:274:LEU:HD11	2.41	0.47
26:Q:423:VAL:CG1	27:R:414:LEU:HD11	2.22	0.47
27:R:59:MET:HE1	27:R:143:GLN:O	2.13	0.47
27:R:94:PHE:CE1	27:R:98:LEU:HD23	2.50	0.47
27:R:380:VAL:HG21	27:R:391:ASN:HD22	1.79	0.47
29:T:93:ASN:HD21	29:T:94:HIS:CD2	2.32	0.47
29:T:209:LEU:CB	29:T:211:PHE:CZ	2.97	0.47
30:U:104:LEU:HD13	30:U:152:LYS:HA	1.97	0.47
33:X:11:ARG:HH22	33:X:105:ASN:HD22	1.63	0.47
35:Z:982:ILE:HD12	35:Z:982:ILE:N	2.29	0.47
1:1:137:TYR:CE1	1:1:157:HIS:CD2	3.03	0.47
3:3:179:TYR:OH	3:3:188:LYS:CE	2.46	0.47
4:4:26:VAL:HG12	4:4:28:LYS:C	2.39	0.47
7:7:-3:VAL:CG1	7:7:49:ILE:CB	2.87	0.47
10:A:77:ARG:CG	10:A:78:THR:HG23	2.33	0.47
15:F:80:ASP:CG	15:F:126:ARG:NH2	2.72	0.47
17:H:62:ARG:HA	18:I:133:LEU:CD1	2.45	0.47
17:H:420:ARG:NH1	18:I:343:ARG:NH2	2.63	0.47
18:I:301:GLU:CD	18:I:304:ARG:HH21	2.23	0.47
18:I:396:CYS:O	19:J:179:ILE:CD1	2.63	0.47
20:K:92:VAL:HA	20:K:94:LEU:HG	1.97	0.47
20:K:156:SER:CA	21:L:126:ARG:NH1	2.76	0.47
21:L:223:PRO:CB	21:L:226:THR:HG23	2.42	0.47
22:M:327:THR:HG21	22:M:329:ARG:O	2.15	0.47
23:N:314:LEU:HD11	23:N:340:HIS:HE1	1.80	0.47
23:N:757:THR:OG1	23:N:759:ILE:HG23	2.15	0.47
24:O:173:SER:O	24:O:177:GLN:HG3	2.15	0.47
24:O:229:ASN:HB2	24:O:258:LEU:HD13	1.95	0.47
24:O:338:LYS:H	24:O:350:ILE:HG23	1.80	0.47
26:Q:115:ILE:HG23	26:Q:141:LEU:HD11	1.95	0.47
28:S:152:LEU:O	28:S:156:VAL:HG23	2.15	0.47
28:S:390:THR:HA	28:S:393:ARG:CZ	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:T:224:ARG:O	29:T:242:LYS:HB2	2.15	0.47
30:U:90:ILE:HD12	30:U:91:GLY:N	2.30	0.47
30:U:109:LEU:HD22	32:W:60:ARG:HB2	1.97	0.47
31:V:144:ILE:HG22	31:V:145:GLN:NE2	2.29	0.47
35:Z:99:LEU:HD22	35:Z:115:LEU:HD11	1.97	0.47
35:Z:381:LEU:HD23	35:Z:414:GLY:HA2	1.97	0.47
35:Z:780:MET:HE1	35:Z:795:THR:HB	1.95	0.47
5:5:150:VAL:HG21	5:5:179:HIS:ND1	2.30	0.47
7:7:17:ASP:C	7:7:17:ASP:OD1	2.57	0.47
8:8:318:PHE:CE1	17:H:163:VAL:HG13	2.50	0.47
8:8:319:TRP:CD1	9:9:37:PRO:HD2	2.50	0.47
11:B:39:ALA:O	11:B:40:THR:HB	2.15	0.47
14:E:107:ILE:HG21	14:E:112:LEU:HD21	1.95	0.47
21:L:166:LEU:HD22	21:L:169:ASN:OD1	2.15	0.47
21:L:263:ILE:HD13	21:L:307:GLU:HB2	1.97	0.47
21:L:292:SER:O	21:L:293:GLU:HB2	2.15	0.47
22:M:385:GLU:HB2	22:M:426:LYS:HD3	1.96	0.47
23:N:579:SER:HA	23:N:584:ARG:HH21	1.74	0.47
24:O:69:PHE:CE2	24:O:78:VAL:HG23	2.50	0.47
24:O:195:TYR:CD2	24:O:213:LEU:HD13	2.49	0.47
25:P:42:LEU:O	25:P:46:THR:HG23	2.15	0.47
25:P:123:ARG:NH1	25:P:128:ASN:HD22	2.13	0.47
25:P:272:PRO:HA	25:P:344:ARG:HD3	1.97	0.47
26:Q:101:ILE:CG2	26:Q:140:LYS:HD3	2.45	0.47
27:R:187:VAL:HA	27:R:213:TYR:OH	2.15	0.47
28:S:343:LEU:HB2	28:S:344:PRO:HD3	1.97	0.47
30:U:79:MET:HE3	31:V:90:LYS:HE2	1.97	0.47
33:X:46:TRP:H	33:X:68:LEU:HB3	1.80	0.47
33:X:66:LEU:HD21	33:X:91:PHE:CZ	2.50	0.47
34:Y:89:GLN:HG3	34:Y:89:GLN:O	2.14	0.47
35:Z:522:THR:HG22	35:Z:525:MET:HE2	1.96	0.47
35:Z:558:LEU:O	35:Z:558:LEU:CG	2.58	0.47
3:3:10:ASP:HA	3:3:110:PRO:HD3	1.96	0.47
4:4:73:GLU:CD	4:4:108:LYS:HZ1	2.21	0.47
8:8:328:LYS:O	17:H:163:VAL:O	2.33	0.47
21:L:216:LYS:NZ	21:L:341:GLY:HA2	2.30	0.47
21:L:285:ALA:O	21:L:301:ILE:HG12	2.15	0.47
22:M:163:PHE:HE1	22:M:261:LYS:HG2	1.77	0.47
22:M:225:GLY:C	22:M:226:THR:CG2	2.88	0.47
25:P:81:LEU:HA	25:P:84:LYS:HE2	1.97	0.47
25:P:290:LEU:HB2	25:P:293:LEU:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:S:256:LYS:O	28:S:259:TYR:OH	2.31	0.47
30:U:38:LEU:HD23	30:U:38:LEU:H	1.80	0.47
8:8:281:ASN:O	9:9:6:LYS:HE3	2.15	0.46
8:8:303:ILE:HB	8:8:345:LEU:HD23	1.97	0.46
9:9:15:LEU:CD2	9:9:26:VAL:HG13	2.44	0.46
12:C:54:SER:H	12:C:59:GLN:NE2	2.13	0.46
13:D:38:GLY:HA2	13:D:185:PRO:HD2	1.96	0.46
15:F:13:PHE:CE2	16:G:129:ARG:CG	2.99	0.46
17:H:62:ARG:CG	17:H:66:LYS:HE3	2.45	0.46
19:J:252:SER:HA	19:J:258:VAL:HG22	1.97	0.46
20:K:123:LEU:HD12	20:K:126:LEU:HD12	1.91	0.46
20:K:347:ARG:HH12	26:Q:205:ALA:HB3	1.74	0.46
23:N:176:GLN:HG3	23:N:182:ASN:HD22	1.80	0.46
23:N:399:PHE:HA	23:N:441:VAL:CG1	2.45	0.46
23:N:771:PHE:HE2	23:N:885:ILE:CG1	2.27	0.46
24:O:25:LEU:HB3	24:O:29:PHE:CE2	2.50	0.46
24:O:69:PHE:HZ	24:O:77:SER:CB	2.29	0.46
24:O:341:ILE:HB	24:O:350:ILE:HG13	1.96	0.46
24:O:365:LYS:HE3	24:O:369:ARG:HH12	1.80	0.46
28:S:457:PRO:HG3	30:U:274:MET:HB2	1.96	0.46
29:T:11:LEU:HD21	29:T:27:LEU:HD21	1.97	0.46
30:U:5:HIS:HD1	30:U:6:GLU:C	2.21	0.46
31:V:117:TRP:HE1	31:V:196:TYR:HB3	0.58	0.46
33:X:93:SER:HB2	33:X:96:ARG:NH2	2.30	0.46
35:Z:218:GLU:CA	35:Z:248:TYR:CZ	2.98	0.46
2:2:93:HIS:HB3	3:3:91:PHE:CE1	2.50	0.46
3:3:92:GLY:O	3:3:94:TYR:CD1	2.68	0.46
3:3:169:ASP:CG	3:3:171:LEU:H	2.23	0.46
6:6:17:ASP:C	6:6:17:ASP:OD1	2.58	0.46
8:8:320:LYS:CD	17:H:164:SER:OG	2.62	0.46
11:B:178:ARG:HD2	11:B:191:ILE:HG23	1.96	0.46
11:B:204:PHE:CZ	11:B:209:ILE:HD11	2.49	0.46
12:C:194:LEU:HD12	12:C:242:THR:HG21	1.96	0.46
14:E:65:GLU:HB2	14:E:218:GLN:OE1	2.14	0.46
16:G:203:HIS:ND1	16:G:211:PHE:CD1	2.83	0.46
16:G:222:GLU:HG3	16:G:222:GLU:O	2.13	0.46
17:H:389:PHE:C	17:H:404:TRP:CH2	2.93	0.46
17:H:393:SER:CB	17:H:404:TRP:HH2	2.27	0.46
18:I:194:ILE:HD11	18:I:232:LEU:HD13	1.97	0.46
18:I:227:THR:OG1	18:I:390:ALA:HB2	2.15	0.46
19:J:143:PRO:HD2	19:J:204:HIS:CA	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:L:287:GLY:HA2	21:L:305:LEU:HD13	1.96	0.46
22:M:50:ARG:HB3	32:W:73:LEU:CB	2.46	0.46
22:M:219:LEU:HD12	22:M:325:ALA:HB3	1.96	0.46
22:M:300:GLU:O	22:M:304:THR:HG23	2.15	0.46
24:O:286:PHE:CE1	24:O:334:LEU:HD11	2.50	0.46
24:O:321:LYS:O	24:O:325:GLU:HG3	2.15	0.46
25:P:144:VAL:HG13	25:P:156:ALA:HB1	1.96	0.46
26:Q:216:ALA:O	26:Q:220:LEU:HG	2.15	0.46
27:R:62:TYR:O	27:R:66:LEU:HG	2.15	0.46
27:R:191:LEU:HD13	27:R:213:TYR:HD2	1.80	0.46
27:R:325:HIS:O	27:R:328:PHE:HB2	2.15	0.46
28:S:465:ILE:CG1	29:T:266:TYR:CE2	2.98	0.46
35:Z:312:TYR:OH	35:Z:348:LEU:HD22	2.13	0.46
1:1:120:HIS:HB3	7:7:28:PHE:CE1	2.50	0.46
3:3:80:GLN:HG2	11:B:102:GLY:N	2.30	0.46
5:5:77:ALA:HB1	5:5:121:ARG:NH2	2.30	0.46
10:A:63:LEU:HD21	16:G:179:VAL:HG11	1.97	0.46
10:A:101:ALA:O	10:A:105:ARG:HG3	2.15	0.46
10:A:119:LYS:HG2	10:A:163:TYR:HE2	1.74	0.46
11:B:177:LYS:HZ3	26:Q:168:LEU:HA	1.81	0.46
17:H:430:ALA:HA	17:H:435:ARG:CZ	2.44	0.46
18:I:354:ASP:C	18:I:354:ASP:OD1	2.57	0.46
19:J:375:ILE:CD1	27:R:204:TRP:HB3	2.45	0.46
22:M:63:LYS:O	22:M:67:GLU:HG2	2.16	0.46
27:R:250:ALA:HB1	27:R:279:LEU:HD21	1.96	0.46
27:R:252:TYR:HD1	27:R:321:TYR:HB3	1.79	0.46
30:U:85:ALA:O	30:U:86:LYS:CG	2.63	0.46
30:U:92:TRP:NE1	30:U:120:LEU:HA	2.30	0.46
30:U:280:ASN:HD21	31:V:291:ASN:HB3	1.80	0.46
33:X:95:GLU:O	33:X:96:ARG:HB3	2.16	0.46
35:Z:471:LEU:C	35:Z:471:LEU:CD2	2.88	0.46
35:Z:491:LEU:HD21	35:Z:900:LEU:CD1	2.44	0.46
4:4:45:PHE:HD1	4:4:101:VAL:HG12	1.80	0.46
8:8:116:ASN:O	9:9:76:GLZ:HA2	2.15	0.46
8:8:329:ILE:C	17:H:163:VAL:HG23	2.40	0.46
19:J:241:ALA:CB	19:J:287:ASN:HD22	2.09	0.46
20:K:124:SER:O	20:K:127:ASP:CG	2.58	0.46
23:N:277:LEU:HA	23:N:280:GLN:HG2	1.97	0.46
24:O:260:VAL:HG12	24:O:262:ASP:CG	2.41	0.46
25:P:433:ILE:HD13	30:U:203:LYS:HA	1.96	0.46
25:P:436:GLU:OE1	30:U:206:ASP:OD2	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Q:51:ARG:HH21	26:Q:92:LYS:CB	2.23	0.46
27:R:183:ASP:OD2	27:R:185:LEU:HB2	2.14	0.46
27:R:320:LYS:HE3	27:R:324:ARG:NH1	2.29	0.46
27:R:353:MET:CA	27:R:357:PHE:CD1	2.82	0.46
30:U:19:LEU:HD11	30:U:127:GLN:OE1	2.13	0.46
33:X:38:ASN:HD21	33:X:47:ASP:CB	2.28	0.46
35:Z:133:ASP:CB	35:Z:137:TYR:CZ	2.95	0.46
35:Z:610:GLY:C	35:Z:748:LEU:HD13	2.35	0.46
7:7:33:ARG:CZ	7:7:52:MET:HE1	2.46	0.46
7:7:190:ALA:HB2	7:7:200:PHE:HD2	1.75	0.46
14:E:72:ARG:C	14:E:73:HIS:CG	2.93	0.46
14:E:196:ALA:O	14:E:200:VAL:HG23	2.15	0.46
15:F:35:THR:HG23	15:F:133:LEU:HD12	1.96	0.46
15:F:65:LYS:CG	15:F:222:PHE:CD2	2.97	0.46
15:F:117:GLN:HE21	15:F:121:GLN:HG3	1.80	0.46
16:G:94:GLU:CD	16:G:118:TYR:OH	2.56	0.46
17:H:227:LEU:N	17:H:228:PRO:HD2	2.30	0.46
17:H:375:VAL:HG12	17:H:377:PHE:CE2	2.51	0.46
18:I:128:TYR:CD2	18:I:154:MET:CG	2.97	0.46
18:I:182:SER:O	18:I:360:LYS:CE	2.62	0.46
20:K:346:ARG:NH2	20:K:372:ILE:CD1	2.76	0.46
21:L:186:LEU:CD2	21:L:387:ASN:OD1	2.64	0.46
22:M:186:LEU:HB2	22:M:231:LEU:HD21	1.97	0.46
24:O:91:ASP:HB3	24:O:94:GLU:HB2	1.96	0.46
24:O:117:ASN:O	24:O:166:ARG:HG2	2.15	0.46
24:O:233:LEU:HA	24:O:236:HIS:CB	2.25	0.46
24:O:306:ARG:HG3	24:O:352:TRP:H	1.78	0.46
26:Q:396:TRP:HB2	26:Q:398:TYR:CZ	2.49	0.46
27:R:285:ALA:O	27:R:287:GLN:HG3	2.15	0.46
30:U:76:MET:HB2	31:V:94:MET:CE	2.46	0.46
32:W:123:ASP:HB3	32:W:127:ARG:NH1	2.31	0.46
35:Z:534:PHE:O	35:Z:573:LEU:CD2	2.64	0.46
35:Z:563:VAL:HG11	35:Z:595:MET:CE	2.38	0.46
2:2:160:GLN:O	2:2:164:TRP:CD1	2.68	0.46
5:5:8:PHE:HA	5:5:146:TRP:CD1	2.51	0.46
5:5:45:MET:O	5:5:46:ALA:HB2	2.16	0.46
5:5:158:LYS:HG2	5:5:196:LEU:HD21	1.98	0.46
6:6:91:LYS:CB	6:6:96:TYR:OH	2.64	0.46
6:6:112:ALA:HB1	6:6:114:TYR:CE1	2.51	0.46
7:7:17:ASP:OD2	7:7:183:SER:HA	2.16	0.46
7:7:195:ASN:C	7:7:196:THR:HG23	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:B:224:TYR:HD2	11:B:226:GLY:H	1.63	0.46
13:D:11:PHE:CZ	14:E:137:PRO:CD	2.93	0.46
14:E:231:TYR:CZ	14:E:235:LYS:C	2.94	0.46
19:J:27:ILE:CG1	20:K:51:LEU:HD11	2.46	0.46
20:K:245:LYS:HE3	21:L:300:GLU:OE2	2.15	0.46
23:N:654:GLN:HG3	23:N:698:GLY:CA	2.45	0.46
24:O:23:HIS:HB3	24:O:26:PHE:HB3	1.98	0.46
27:R:285:ALA:CB	27:R:314:ASN:HD22	2.28	0.46
30:U:21:HIS:HE1	30:U:53:ALA:CB	1.92	0.46
31:V:79:SER:N	31:V:121:VAL:HG11	2.30	0.46
35:Z:427:GLN:CG	35:Z:428:TRP:CE3	2.99	0.46
1:1:80:SER:CB	16:G:103:LYS:CD	2.94	0.46
5:5:8:PHE:CZ	5:5:13:ILE:HG12	2.49	0.46
8:8:330:LEU:HD11	17:H:166:THR:CB	2.40	0.46
12:C:46:LEU:HD11	12:C:138:ALA:CB	2.46	0.46
17:H:336:LEU:HG	17:H:370:ARG:HH12	1.80	0.46
21:L:173:PHE:O	21:L:243:PHE:HB3	2.16	0.46
21:L:332:THR:HG21	22:M:295:LYS:HD3	1.97	0.46
24:O:23:HIS:CB	24:O:26:PHE:HB3	2.46	0.46
24:O:87:LYS:HD2	24:O:135:ARG:HD2	1.97	0.46
24:O:225:ASP:HB3	24:O:290:LYS:HE2	1.96	0.46
24:O:344:VAL:CB	25:P:361:THR:CG2	2.94	0.46
26:Q:269:LYS:CE	26:Q:281:ILE:HD11	2.46	0.46
28:S:264:VAL:HG11	28:S:272:TYR:HE2	1.79	0.46
30:U:78:GLU:CD	30:U:81:LYS:HZ3	2.23	0.46
31:V:78:VAL:C	31:V:121:VAL:CG1	2.89	0.46
33:X:8:ILE:CG2	33:X:124:LYS:CE	2.93	0.46
33:X:85:ARG:HH21	33:X:116:ALA:N	2.13	0.46
35:Z:805:LEU:CD2	35:Z:893:PHE:CZ	2.97	0.46
11:B:43:VAL:HG21	11:B:137:ALA:HB1	1.98	0.46
14:E:157:HIS:CG	14:E:170:LYS:NZ	2.81	0.46
18:I:199:GLU:HA	18:I:240:THR:HG22	1.96	0.46
19:J:248:ASP:O	19:J:249:GLU:CB	2.64	0.46
20:K:141:ARG:HH12	21:L:153:LEU:HD11	1.81	0.46
23:N:647:ASP:O	23:N:653:ARG:NE	2.49	0.46
23:N:681:ASN:O	23:N:685:VAL:HG23	2.16	0.46
24:O:260:VAL:CG1	24:O:262:ASP:CG	2.88	0.46
24:O:377:VAL:HG13	30:U:193:GLN:CD	2.40	0.46
25:P:140:THR:CB	25:P:163:LEU:HD22	2.46	0.46
25:P:218:LEU:HD11	25:P:256:LYS:CE	2.46	0.46
26:Q:128:GLU:HG3	26:Q:129:LYS:HG2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:T:89:TYR:CE1	29:T:102:LYS:HE3	2.51	0.46
32:W:41:ARG:NH1	32:W:67:ALA:O	2.49	0.46
32:W:144:PHE:HE1	32:W:176:PRO:HA	1.80	0.46
32:W:172:LEU:HD21	32:W:185:ILE:N	2.31	0.46
33:X:22:ARG:HG2	33:X:96:ARG:NH1	2.31	0.46
35:Z:212:LEU:HD13	35:Z:217:GLU:OE2	2.15	0.46
35:Z:340:LEU:C	35:Z:340:LEU:HD12	2.41	0.46
4:4:66:TYR:CD1	4:4:74:LEU:CD1	2.92	0.46
5:5:57:THR:HG22	14:E:101:LEU:HD12	1.97	0.46
17:H:217:GLN:HG3	17:H:376:GLU:OE2	2.15	0.46
20:K:49:PHE:CD1	23:N:192:LEU:CG	2.86	0.46
20:K:347:ARG:HH11	26:Q:205:ALA:HB1	1.77	0.46
22:M:175:LYS:NZ	22:M:240:ASN:CB	2.79	0.46
22:M:201:MET:HE2	22:M:319:ASP:OD1	2.15	0.46
23:N:195:THR:C	23:N:196:THR:HG23	2.40	0.46
24:O:214:ALA:HB3	24:O:248:TYR:HH	1.79	0.46
25:P:145:GLU:O	25:P:149:GLU:HG3	2.16	0.46
27:R:304:TYR:CE2	27:R:337:VAL:HG21	2.51	0.46
27:R:360:SER:HB3	34:Y:86:ARG:HH22	1.81	0.46
28:S:281:ALA:HB2	28:S:320:ILE:HD11	1.97	0.46
28:S:390:THR:OG1	28:S:393:ARG:NH2	2.49	0.46
29:T:59:LYS:HD3	29:T:97:SER:CB	2.45	0.46
29:T:193:THR:CB	29:T:226:TRP:CZ2	2.94	0.46
30:U:92:TRP:NE1	30:U:120:LEU:CA	2.78	0.46
30:U:273:LEU:O	30:U:277:TYR:CD2	2.69	0.46
35:Z:96:TYR:CE1	35:Z:119:LEU:HD22	2.51	0.46
1:1:122:LEU:CG	7:7:28:PHE:HE1	2.29	0.46
7:7:92:MET:HE2	7:7:102:LEU:HD23	1.97	0.46
7:7:129:TYR:HE2	7:7:134:LEU:CD2	2.29	0.46
14:E:165:TYR:C	14:E:167:TYR:HE1	2.20	0.46
15:F:72:LEU:C	15:F:72:LEU:HD12	2.40	0.46
15:F:74:LEU:C	15:F:74:LEU:HD12	2.41	0.46
16:G:140:VAL:HG11	16:G:220:LEU:CG	2.35	0.46
17:H:280:VAL:CG2	18:I:304:ARG:HD2	2.42	0.46
18:I:178:THR:HG23	19:J:282:PHE:HA	1.98	0.46
18:I:250:SER:O	18:I:253:ILE:CG1	2.63	0.46
19:J:88:VAL:HG23	19:J:91:GLU:H	1.80	0.46
19:J:336:ASN:ND2	20:K:200:GLN:O	2.46	0.46
20:K:99:PHE:CE1	20:K:101:GLU:C	2.92	0.46
21:L:269:TYR:CE2	21:L:273:HIS:NE2	2.84	0.46
21:L:328:ASN:ND2	21:L:329:ARG:HE	2.12	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:N:49:LEU:HD21	23:N:55:PHE:CE1	2.51	0.46
23:N:666:GLN:CG	23:N:873:ARG:HE	2.23	0.46
23:N:707:ASN:HB3	23:N:711:ARG:CZ	2.46	0.46
23:N:870:ASN:OD1	23:N:871:MET:HG2	2.16	0.46
26:Q:115:ILE:HG23	26:Q:141:LEU:CD1	2.46	0.46
28:S:323:LEU:CD2	28:S:383:LEU:HD21	2.45	0.46
28:S:471:LEU:CD1	30:U:288:PHE:HZ	2.00	0.46
30:U:154:PHE:N	30:U:154:PHE:HD1	2.14	0.46
31:V:33:ALA:O	31:V:37:MET:HG3	2.16	0.46
35:Z:434:GLN:O	35:Z:437:ASP:HB2	2.16	0.46
1:1:59:VAL:HG21	1:1:82:PHE:CE1	2.51	0.45
3:3:63:ASN:HD22	12:C:96:GLN:NE2	2.14	0.45
5:5:150:VAL:CG2	5:5:179:HIS:CE1	2.99	0.45
11:B:78:MET:HG2	11:B:80:PRO:HD2	1.98	0.45
11:B:140:ASP:CG	11:B:143:ASN:HB2	2.41	0.45
12:C:39:MET:HE2	12:C:161:LYS:CB	2.46	0.45
14:E:166:ARG:C	14:E:167:TYR:CD1	2.94	0.45
15:F:117:GLN:HE21	15:F:121:GLN:NE2	2.14	0.45
15:F:155:GLU:C	15:F:156:LEU:HD12	2.41	0.45
17:H:280:VAL:O	17:H:280:VAL:HG12	2.16	0.45
17:H:387:ASN:O	17:H:391:ILE:HG13	2.16	0.45
19:J:375:ILE:HB	27:R:204:TRP:CE3	2.51	0.45
22:M:42:ARG:HB2	32:W:27:GLU:HB3	1.98	0.45
25:P:132:VAL:HA	25:P:171:MET:SD	2.55	0.45
25:P:293:LEU:HD23	25:P:293:LEU:O	2.16	0.45
25:P:308:LEU:CD2	25:P:369:LEU:HA	2.20	0.45
26:Q:90:LYS:CD	26:Q:129:LYS:NZ	2.70	0.45
31:V:185:ILE:HA	31:V:188:LEU:HD12	1.98	0.45
33:X:73:THR:HG22	33:X:91:PHE:CD1	2.52	0.45
35:Z:64:TYR:HE1	35:Z:111:LEU:O	1.99	0.45
35:Z:318:LYS:CD	35:Z:496:ALA:O	2.62	0.45
35:Z:452:LEU:HD11	35:Z:485:ILE:CG2	2.44	0.45
35:Z:756:MET:HE1	35:Z:759:ARG:HE	1.80	0.45
1:1:7:THR:HA	1:1:12:VAL:HA	1.98	0.45
1:1:8:PHE:CZ	1:1:179:THR:HG22	2.44	0.45
1:1:45:ARG:NH2	1:1:52:THR:C	2.70	0.45
11:B:68:THR:HB	11:B:69:PRO:HD2	1.98	0.45
11:B:236:ARG:NH1	11:B:238:LEU:CD2	2.79	0.45
12:C:180:TYR:HE2	12:C:182:ASP:HA	1.76	0.45
14:E:48:LEU:CD1	14:E:145:ALA:HB3	2.25	0.45
14:E:48:LEU:HD21	14:E:155:LEU:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:E:165:TYR:O	14:E:167:TYR:CD1	2.69	0.45
17:H:393:SER:OG	17:H:404:TRP:HH2	1.99	0.45
20:K:190:LEU:HB2	20:K:198:TYR:OH	2.15	0.45
24:O:73:ILE:CG2	24:O:74:ASN:N	2.63	0.45
24:O:230:PHE:CE1	24:O:251:LEU:HD11	2.48	0.45
24:O:341:ILE:CD1	24:O:348:VAL:HA	2.47	0.45
25:P:235:LEU:CD2	25:P:276:LEU:HD11	2.47	0.45
27:R:259:PHE:O	27:R:259:PHE:HD1	1.97	0.45
29:T:38:ASN:O	29:T:39:LEU:CD2	2.64	0.45
30:U:94:HIS:HD1	30:U:96:GLY:H	1.60	0.45
30:U:223:HIS:CE1	30:U:224:THR:HB	2.49	0.45
31:V:104:VAL:HG11	31:V:107:TRP:HE1	1.81	0.45
32:W:60:ARG:HD2	32:W:60:ARG:C	2.40	0.45
35:Z:502:ASN:ND2	35:Z:505:VAL:HG23	2.31	0.45
35:Z:552:GLU:O	35:Z:553:ARG:HB2	2.15	0.45
35:Z:567:ALA:HB1	35:Z:599:ILE:HG12	1.97	0.45
35:Z:620:LEU:HD23	35:Z:743:ILE:HG13	1.98	0.45
2:2:220:ILE:HD12	3:3:39:HIS:CE1	2.50	0.45
4:4:28:LYS:CE	5:5:127:PHE:CE2	3.00	0.45
6:6:43:MET:HE2	6:6:84:ILE:HD11	1.98	0.45
11:B:44:VAL:CG2	11:B:211:LEU:HD11	2.46	0.45
13:D:37:LYS:CE	13:D:145:PRO:HB2	2.46	0.45
17:H:251:PRO:O	17:H:254:THR:HG21	2.13	0.45
17:H:397:SER:OG	17:H:436:LYS:HE2	2.17	0.45
19:J:274:GLU:HA	19:J:309:ARG:NH1	2.32	0.45
21:L:132:ARG:CD	21:L:133:ASN:H	2.29	0.45
21:L:311:GLN:NE2	21:L:316:ASP:HB2	2.32	0.45
21:L:389:ALA:HA	21:L:392:ARG:NH2	2.31	0.45
22:M:50:ARG:CB	32:W:73:LEU:CB	2.94	0.45
24:O:303:LYS:HZ3	30:U:234:ASN:ND2	2.12	0.45
25:P:360:ILE:CD1	25:P:402:PHE:HZ	2.29	0.45
28:S:141:LEU:O	28:S:145:PHE:CZ	2.70	0.45
28:S:227:ASN:ND2	28:S:260:PRO:HD2	2.31	0.45
28:S:435:LYS:NZ	29:T:238:GLN:CD	2.68	0.45
29:T:156:SER:HB3	29:T:159:LYS:CB	2.44	0.45
35:Z:361:HIS:HE1	35:Z:861:THR:O	1.98	0.45
1:1:119:VAL:HB	16:G:103:LYS:HZ3	1.71	0.45
5:5:159:ARG:HH11	5:5:200:VAL:HG13	1.81	0.45
7:7:8:TYR:CZ	7:7:11:GLY:N	2.84	0.45
7:7:83:TYR:CE1	15:F:101:ARG:HG2	2.51	0.45
8:8:212:GLU:CD	9:9:42:ARG:NE	2.73	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:D:11:PHE:HD2	14:E:26:TYR:HB2	1.82	0.45
16:G:73:ILE:HG22	16:G:75:CYS:SG	2.57	0.45
17:H:382:LEU:HD13	17:H:385:ARG:HH21	1.82	0.45
20:K:303:MET:HE1	20:K:316:MET:HE3	1.99	0.45
21:L:206:ILE:CG1	21:L:209:ARG:HH22	2.28	0.45
24:O:306:ARG:CG	24:O:351:SER:CA	2.89	0.45
27:R:207:ARG:HH12	27:R:211:LYS:NZ	2.15	0.45
28:S:185:PHE:CD1	28:S:239:ARG:NH1	2.85	0.45
29:T:46:ILE:HD11	29:T:94:HIS:NE2	2.31	0.45
29:T:55:LEU:HD22	29:T:94:HIS:CD2	2.51	0.45
29:T:226:TRP:NE1	29:T:235:PHE:CD2	2.85	0.45
29:T:250:MET:O	29:T:251:HIS:HD2	1.93	0.45
30:U:19:LEU:HD11	31:V:208:LYS:HB2	1.97	0.45
30:U:288:PHE:O	30:U:291:LEU:HB2	2.16	0.45
1:1:18:SER:O	1:1:19:ARG:HB2	2.17	0.45
3:3:79:THR:HG23	3:3:115:PHE:HZ	1.81	0.45
7:7:74:ASP:HA	7:7:79:LEU:HD12	1.97	0.45
7:7:85:PHE:CD2	7:7:120:ARG:HD3	2.50	0.45
7:7:116:ASP:C	7:7:116:ASP:OD1	2.58	0.45
12:C:50:ARG:HD2	12:C:212:GLU:CD	2.42	0.45
13:D:190:GLU:OE1	13:D:193:LYS:HE2	2.16	0.45
14:E:109:VAL:CG1	14:E:156:PHE:CG	2.99	0.45
16:G:113:ASP:OD1	16:G:156:TYR:OH	2.30	0.45
17:H:146:VAL:HG12	17:H:155:PHE:CB	2.39	0.45
18:I:196:GLU:OE2	18:I:200:LEU:HD23	2.16	0.45
18:I:299:GLU:O	18:I:303:GLN:HG2	2.17	0.45
18:I:397:THR:O	19:J:179:ILE:HD12	2.17	0.45
20:K:49:PHE:HE1	23:N:192:LEU:CB	2.30	0.45
20:K:258:PHE:CE1	20:K:299:LEU:HD23	2.52	0.45
20:K:262:ARG:NH1	20:K:311:ASN:HD21	2.13	0.45
24:O:118:GLY:C	24:O:166:ARG:HG2	2.32	0.45
24:O:196:LEU:HD21	24:O:242:ILE:CD1	2.46	0.45
24:O:270:ILE:HG22	24:O:271:LYS:N	2.31	0.45
25:P:110:LEU:O	25:P:113:ASN:HB2	2.17	0.45
25:P:352:VAL:HG23	25:P:353:ILE:N	2.31	0.45
27:R:301:TYR:HE2	27:R:359:VAL:HG13	1.81	0.45
28:S:471:LEU:CB	30:U:288:PHE:HE1	2.24	0.45
29:T:59:LYS:HD3	29:T:97:SER:HA	1.98	0.45
31:V:133:ASN:HD22	31:V:136:ALA:HB2	1.81	0.45
35:Z:546:ILE:CG2	35:Z:566:LEU:HD21	2.46	0.45
1:1:-5:GLU:O	2:2:116:HIS:CE1	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:8:PHE:CZ	2:2:11:GLY:C	2.95	0.45
3:3:69:GLU:OE1	11:B:106:PRO:HG2	2.17	0.45
5:5:19:ARG:H	5:5:31:VAL:HG12	1.82	0.45
5:5:199:LYS:HG2	5:5:203:GLU:OE1	2.16	0.45
14:E:15:PHE:CZ	15:F:126:ARG:HD2	2.50	0.45
16:G:45:VAL:CG2	16:G:47:PHE:HE1	2.30	0.45
16:G:98:PHE:CE2	16:G:105:PRO:O	2.63	0.45
17:H:175:GLY:H	17:H:183:ILE:HG13	1.82	0.45
18:I:173:MET:H	19:J:231:ARG:NH2	2.14	0.45
18:I:417:LYS:O	18:I:421:GLU:HG3	2.16	0.45
19:J:329:ARG:CA	19:J:343:LEU:HD13	2.47	0.45
20:K:171:TYR:CD2	20:K:225:ALA:HB1	2.52	0.45
20:K:226:VAL:O	20:K:230:THR:HG23	2.17	0.45
21:L:379:ALA:HA	21:L:382:MET:HE2	1.96	0.45
22:M:327:THR:CG2	22:M:329:ARG:O	2.65	0.45
23:N:399:PHE:HE2	23:N:438:ASP:OD1	2.00	0.45
23:N:521:LEU:HD13	23:N:539:MET:SD	2.56	0.45
24:O:344:VAL:O	24:O:345:ASN:ND2	2.49	0.45
25:P:433:ILE:CD1	30:U:203:LYS:HA	2.47	0.45
26:Q:195:LYS:HZ2	26:Q:229:ASP:HB3	1.81	0.45
26:Q:381:ILE:HG21	27:R:344:SER:HA	1.97	0.45
26:Q:426:LEU:HD21	30:U:292:ILE:HD11	1.98	0.45
27:R:34:THR:HG22	27:R:70:TYR:HB2	1.98	0.45
31:V:113:GLY:O	31:V:114:PHE:CG	2.69	0.45
33:X:83:SER:OG	33:X:110:PRO:HG3	2.17	0.45
35:Z:103:TYR:CG	35:Z:116:ALA:HB2	2.48	0.45
35:Z:362:LEU:CD2	35:Z:858:GLY:O	2.65	0.45
35:Z:528:LEU:HD11	35:Z:565:PHE:CD1	2.51	0.45
35:Z:973:TYR:CD2	35:Z:974:THR:HG22	2.51	0.45
4:4:66:TYR:CG	4:4:74:LEU:HD11	2.49	0.45
5:5:33:ARG:NH1	5:5:46:ALA:HB2	2.31	0.45
7:7:42:VAL:HG23	7:7:192:ILE:HD11	1.98	0.45
7:7:62:LEU:HD21	7:7:87:TYR:CE2	2.52	0.45
10:A:104:PHE:HE2	10:A:111:ASP:C	2.23	0.45
11:B:127:VAL:HG22	11:B:128:ARG:O	2.17	0.45
13:D:122:GLN:HG3	14:E:134:MET:SD	2.56	0.45
19:J:153:LEU:O	19:J:157:ILE:HG13	2.16	0.45
19:J:364:GLU:CD	19:J:388:LYS:HD3	2.42	0.45
22:M:384:ASP:O	22:M:386:PHE:CD1	2.70	0.45
23:N:328:PHE:CE1	23:N:696:LYS:HB2	2.50	0.45
24:O:140:LYS:CD	24:O:141:ASN:ND2	2.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O:193:LEU:HD13	24:O:236:HIS:CD2	2.51	0.45
25:P:213:TYR:HD2	25:P:217:LYS:HG2	1.82	0.45
26:Q:65:TYR:HB2	26:Q:74:LEU:CD2	2.36	0.45
27:R:147:LYS:HD3	27:R:181:TYR:CZ	2.52	0.45
27:R:153:THR:O	27:R:156:LYS:HB2	2.17	0.45
28:S:173:LEU:O	28:S:174:ARG:NH1	2.43	0.45
28:S:189:LEU:HD12	28:S:193:THR:HB	1.99	0.45
28:S:364:ILE:HD13	28:S:380:CYS:HB3	1.99	0.45
32:W:162:ASN:O	32:W:163:ASN:CG	2.60	0.45
33:X:8:ILE:HG22	33:X:124:LYS:CD	2.44	0.45
35:Z:551:LEU:CB	35:Z:593:HIS:NE2	2.80	0.45
35:Z:570:LEU:CD1	35:Z:599:ILE:HG21	2.43	0.45
35:Z:624:LEU:CD1	35:Z:736:LEU:O	2.64	0.45
1:1:38:HIS:NE2	1:1:73:PRO:HD2	2.30	0.45
1:1:120:HIS:HB2	7:7:28:PHE:CZ	2.52	0.45
2:2:200:GLN:O	2:2:201:LYS:HB2	2.17	0.45
3:3:-2:ASN:CA	3:3:19:ARG:NH1	2.80	0.45
3:3:140:MET:CG	3:3:168:ARG:HH22	2.30	0.45
5:5:95:LEU:HD13	5:5:95:LEU:C	2.41	0.45
7:7:-3:VAL:HG12	7:7:49:ILE:CB	2.45	0.45
8:8:153:ASP:O	8:8:156[A]:ILE:HG22	2.17	0.45
12:C:208:TYR:CA	12:C:235:ILE:HG21	2.44	0.45
13:D:34:VAL:HB	13:D:199:LEU:HD21	1.97	0.45
13:D:45:GLY:HA3	13:D:199:LEU:CD1	2.47	0.45
14:E:50:VAL:HG22	14:E:67:ILE:HD11	1.99	0.45
15:F:40:SER:O	15:F:41:ASN:CG	2.60	0.45
16:G:45:VAL:CG2	16:G:47:PHE:CE1	2.99	0.45
18:I:225:PRO:HB3	19:J:309:ARG:HH21	1.80	0.45
19:J:165:GLU:OE2	19:J:205:HIS:CD2	2.70	0.45
20:K:347:ARG:HG3	26:Q:215:VAL:CG1	2.46	0.45
22:M:219:LEU:CD1	22:M:325:ALA:HB3	2.47	0.45
25:P:397:ALA:HB1	25:P:399:ILE:HD12	1.98	0.45
26:Q:426:LEU:HD23	26:Q:426:LEU:O	2.16	0.45
27:R:422:ARG:HH22	28:S:301:PRO:CG	2.30	0.45
30:U:37:ILE:HD13	30:U:121:LEU:HD11	1.97	0.45
31:V:25:GLU:OE2	31:V:157:ARG:NH1	2.50	0.45
31:V:118:LEU:HD12	31:V:140:VAL:CG2	2.47	0.45
31:V:261:LEU:HD11	31:V:283:THR:HG21	1.67	0.45
32:W:132:LEU:HD22	32:W:137:VAL:HG21	1.99	0.45
35:Z:53:VAL:O	35:Z:56:LEU:HB2	2.17	0.45
35:Z:132:HIS:C	35:Z:137:TYR:CE1	2.95	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:119:VAL:HB	16:G:103:LYS:HZ1	1.76	0.45
15:F:128:TYR:HB3	15:F:130:VAL:HG12	1.99	0.45
16:G:161:GLY:HA3	16:G:175:LEU:HD21	1.97	0.45
19:J:87:LYS:HD2	19:J:93:LYS:HE2	1.99	0.45
19:J:234:PHE:HZ	19:J:279:LEU:HD21	1.49	0.45
23:N:70:TYR:CE2	28:S:219:LYS:CE	2.86	0.45
23:N:758:VAL:H	23:N:874:ILE:HD12	1.82	0.45
23:N:774:ASN:ND2	23:N:885:ILE:CD1	2.80	0.45
25:P:286:ASN:O	25:P:293:LEU:CD1	2.65	0.45
26:Q:288:LYS:NZ	26:Q:296:ILE:HG21	2.32	0.45
27:R:72:VAL:O	27:R:72:VAL:HG12	2.16	0.45
29:T:4:LEU:O	29:T:5:ALA:HB3	2.17	0.45
29:T:224:ARG:HB3	29:T:242:LYS:HB2	1.98	0.45
30:U:40:ASP:HB2	30:U:47:ARG:NE	2.32	0.45
35:Z:303:ASP:OD1	35:Z:303:ASP:C	2.59	0.45
35:Z:315:ALA:CA	35:Z:327:GLN:HE22	2.29	0.45
1:1:66:TYR:HE2	1:1:72:THR:C	2.25	0.45
8:8:485:GLU:N	17:H:187:LEU:HD23	2.29	0.45
10:A:57:LYS:NZ	10:A:66:PRO:O	2.47	0.45
13:D:45:GLY:HA3	13:D:199:LEU:HD11	1.99	0.45
13:D:236:ILE:O	13:D:240:LYS:HG3	2.17	0.45
16:G:217:TRP:O	16:G:217:TRP:HD1	2.00	0.45
17:H:271:PHE:CZ	17:H:273:ARG:CZ	3.00	0.45
19:J:88:VAL:HB	19:J:90:PRO:HD2	1.97	0.45
21:L:362:LYS:CA	21:L:376:PHE:CE2	2.93	0.45
22:M:186:LEU:CD1	22:M:231:LEU:HD21	2.47	0.45
22:M:369:THR:C	22:M:370:THR:HG23	2.42	0.45
23:N:300:ASN:HD22	23:N:920:VAL:HG21	1.82	0.45
24:O:185:PHE:CE2	24:O:219:ILE:CG2	2.86	0.45
24:O:366:MET:HE3	30:U:226:LEU:HD12	1.96	0.45
25:P:180:ILE:HD11	25:P:206:LYS:NZ	2.31	0.45
26:Q:124:PHE:CD1	26:Q:127:ARG:NH2	2.85	0.45
28:S:163:VAL:HG21	28:S:184:TRP:CZ3	2.37	0.45
30:U:40:ASP:HB2	30:U:47:ARG:HE	1.82	0.45
32:W:142:ILE:HG22	32:W:185:ILE:HD12	1.99	0.45
33:X:33:ILE:CG1	33:X:48:PHE:CZ	2.99	0.45
1:1:29:ARG:HE	1:1:30:VAL:HG23	1.82	0.44
1:1:82:PHE:O	1:1:86:CYS:SG	2.72	0.44
3:3:74:GLU:CD	3:3:105:SER:HB2	2.43	0.44
5:5:150:VAL:HG23	5:5:179:HIS:CE1	2.52	0.44
5:5:159:ARG:NH1	5:5:200:VAL:HG13	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:-3:VAL:CG1	7:7:49:ILE:CG1	2.93	0.44
7:7:103:TRP:CD1	7:7:103:TRP:O	2.70	0.44
7:7:119:LEU:HD23	7:7:131:SER:O	2.17	0.44
7:7:121:TYR:HE1	7:7:123:ASN:HB3	1.82	0.44
10:A:39:ASN:ND2	10:A:58:LYS:HD2	2.21	0.44
10:A:57:LYS:CE	10:A:69:VAL:HG11	2.21	0.44
11:B:12:PHE:CZ	11:B:18:LEU:HD21	2.52	0.44
11:B:179:TRP:NE1	11:B:183:LEU:HB3	2.32	0.44
14:E:165:TYR:O	14:E:167:TYR:HE1	1.98	0.44
15:F:166:GLN:HA	22:M:381:ARG:HH21	1.72	0.44
17:H:98:GLN:NE2	17:H:193:PRO:O	2.50	0.44
18:I:75:PHE:CD2	18:I:76:VAL:N	2.85	0.44
18:I:408:ARG:NH1	18:I:410:GLN:C	2.73	0.44
22:M:163:PHE:CE1	22:M:261:LYS:HE3	2.52	0.44
23:N:17:GLN:H	23:N:20:VAL:CG2	2.29	0.44
23:N:227:LYS:HA	23:N:724:THR:HG21	1.99	0.44
23:N:258:ALA:CB	23:N:289:ILE:HG21	2.46	0.44
23:N:745:LEU:O	23:N:748:PHE:HD2	1.99	0.44
23:N:759:ILE:HG12	23:N:902:VAL:HG12	1.99	0.44
24:O:373:TRP:NE1	30:U:200:LEU:HD11	2.32	0.44
27:R:126:GLY:O	27:R:127:GLU:HB2	2.16	0.44
28:S:211:ARG:NE	28:S:240:ASP:HB3	2.30	0.44
29:T:143:SER:O	29:T:147:LYS:HG3	2.17	0.44
30:U:152:LYS:HG2	30:U:154:PHE:CZ	2.53	0.44
33:X:41:GLU:CB	33:X:45:PHE:HB2	2.47	0.44
33:X:46:TRP:CH2	33:X:131:ASN:HB2	2.52	0.44
1:1:82:PHE:CE2	1:1:99:VAL:HG21	2.53	0.44
3:3:80:GLN:HG2	11:B:102:GLY:HA3	1.99	0.44
4:4:55:PHE:CE2	4:4:59:ILE:HG13	2.52	0.44
5:5:40:PHE:CE2	5:5:41:LEU:CG	3.00	0.44
11:B:82:TYR:CE1	11:B:134:LEU:HD21	2.53	0.44
15:F:33:SER:HA	15:F:51:ARG:NH1	2.32	0.44
15:F:38:LEU:CD2	15:F:189:LEU:CD1	2.96	0.44
19:J:248:ASP:O	19:J:249:GLU:HB3	2.18	0.44
20:K:281:ARG:HH12	20:K:286:THR:C	2.24	0.44
21:L:335:PRO:O	21:L:339:ARG:HG3	2.16	0.44
21:L:336:ALA:HA	21:L:339:ARG:HH21	1.82	0.44
23:N:5:THR:HG23	23:N:8:PRO:CD	2.47	0.44
23:N:170:LEU:O	23:N:174:LEU:HG	2.17	0.44
24:O:210:ARG:NH2	24:O:242:ILE:CG1	2.80	0.44
25:P:221:TYR:HE2	25:P:244:ILE:HD13	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:P:425:HIS:CD2	30:U:225:ILE:CB	3.00	0.44
26:Q:138:SER:HB2	26:Q:161:LEU:HD11	1.96	0.44
26:Q:326:MET:HB3	26:Q:332:ARG:HD3	1.99	0.44
27:R:331:ARG:NH2	27:R:367:ASP:HB3	2.33	0.44
28:S:185:PHE:HE1	28:S:239:ARG:NH1	2.14	0.44
28:S:395:ILE:HD12	28:S:410:LYS:HD3	1.98	0.44
29:T:245:TYR:CE2	29:T:251:HIS:NE2	2.76	0.44
32:W:16:SER:CB	32:W:25:ARG:NH1	2.80	0.44
32:W:120:ASP:O	32:W:121:SER:O	2.35	0.44
1:1:120:HIS:HB2	7:7:28:PHE:CE1	2.53	0.44
3:3:59:ARG:NE	12:C:99:LEU:HD21	2.32	0.44
5:5:19:ARG:HD2	5:5:171:SER:C	2.42	0.44
10:A:51:THR:HB	10:A:228:ALA:HB3	1.98	0.44
10:A:79:ILE:CD1	10:A:112:MET:HB3	2.47	0.44
12:C:68:LYS:HD2	12:C:229:ILE:HD11	1.98	0.44
18:I:243:THR:HG22	18:I:245:LEU:CG	2.47	0.44
18:I:300:ARG:O	18:I:304:ARG:HG3	2.17	0.44
19:J:61:GLU:O	19:J:65:LEU:HG	2.17	0.44
20:K:281:ARG:NH1	20:K:286:THR:C	2.74	0.44
20:K:349:ARG:HH11	20:K:377:SER:N	2.01	0.44
24:O:69:PHE:HE2	24:O:78:VAL:N	2.15	0.44
25:P:214:GLU:O	25:P:218:LEU:HG	2.18	0.44
28:S:471:LEU:HB2	30:U:288:PHE:HZ	1.76	0.44
31:V:108:TYR:O	31:V:109:HIS:CG	2.70	0.44
32:W:65:PHE:CZ	32:W:102:GLN:OE1	2.71	0.44
1:1:6:VAL:CB	1:1:155:ILE:HD11	2.46	0.44
1:1:45:ARG:HE	1:1:52:THR:CB	2.29	0.44
7:7:123:ASN:HD21	7:7:127:VAL:HB	1.81	0.44
8:8:337:PHE:CZ	8:8:474:LYS:HG3	2.52	0.44
13:D:188:VAL:CG2	13:D:216:LYS:HE2	2.48	0.44
18:I:102:ASN:ND2	19:J:83:LYS:NZ	2.62	0.44
19:J:133:LEU:HD23	19:J:137:MET:SD	2.57	0.44
19:J:142:VAL:HG12	19:J:204:HIS:CE1	2.51	0.44
21:L:81:ILE:HG22	21:L:82:ARG:HA	2.00	0.44
21:L:135:VAL:HB	21:L:158:ILE:HD11	1.99	0.44
22:M:49:GLN:CG	32:W:73:LEU:HD11	2.48	0.44
23:N:419:THR:O	23:N:423:LEU:HG	2.16	0.44
24:O:179:PHE:HB3	24:O:188:PHE:HB2	1.99	0.44
24:O:226:LYS:C	24:O:290:LYS:HE3	2.43	0.44
25:P:218:LEU:HD21	25:P:256:LYS:HZ1	1.81	0.44
27:R:241:ILE:HG22	27:R:242:GLU:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:S:176:LEU:HG	28:S:179:ILE:O	2.18	0.44
31:V:117:TRP:NE1	31:V:196:TYR:CG	2.49	0.44
33:X:26:PRO:O	33:X:27:ILE:HD13	2.18	0.44
12:C:137:TYR:HE1	12:C:151:SER:OG	2.01	0.44
15:F:7:ASP:HA	15:F:21:GLN:HE21	1.83	0.44
16:G:140:VAL:CB	16:G:220:LEU:CD2	2.84	0.44
16:G:140:VAL:HB	16:G:220:LEU:CD1	2.41	0.44
18:I:380:LEU:HD11	18:I:416:PHE:HB3	1.98	0.44
19:J:364:GLU:OE1	19:J:388:LYS:HD3	2.18	0.44
22:M:292:ASP:C	22:M:292:ASP:OD1	2.59	0.44
22:M:383:THR:HB	22:M:386:PHE:CE1	2.53	0.44
23:N:884:PHE:CE2	23:N:896:PHE:HB2	2.53	0.44
24:O:261:GLY:CA	24:O:288:ARG:HH22	2.30	0.44
24:O:292:CYS:HG	24:O:317:THR:HG1	1.64	0.44
27:R:339:ALA:O	27:R:342:LEU:HB3	2.18	0.44
33:X:45:PHE:CD1	33:X:68:LEU:O	2.71	0.44
35:Z:189:ALA:HB3	35:Z:196:SER:HB2	1.99	0.44
35:Z:448:LYS:O	35:Z:451:ALA:HB3	2.17	0.44
35:Z:850:LEU:HD21	35:Z:901:PHE:CE1	2.53	0.44
2:2:8:PHE:CE1	2:2:13:VAL:HG23	2.52	0.44
3:3:59:ARG:HE	12:C:99:LEU:HD21	1.81	0.44
5:5:55:TRP:NE1	6:6:89:TYR:HH	2.14	0.44
7:7:13:ILE:HD12	7:7:165:ALA:HB1	2.00	0.44
7:7:85:PHE:CZ	7:7:120:ARG:HG2	2.53	0.44
8:8:253:LYS:HE3	9:9:64:GLU:OE1	2.18	0.44
10:A:133:TYR:HB3	11:B:5:TYR:CE2	2.53	0.44
19:J:102:ILE:HD11	19:J:122:LEU:HB2	2.00	0.44
19:J:145:SER:OG	19:J:201:ALA:HB2	2.18	0.44
21:L:105:ILE:HG12	21:L:159:LEU:CD1	2.48	0.44
23:N:255:ALA:O	23:N:259:PHE:CD2	2.70	0.44
23:N:406:TYR:HD1	23:N:448:LEU:HB2	1.83	0.44
23:N:510:HIS:NE2	31:V:60:ASP:HB2	2.33	0.44
24:O:228:TYR:HB2	24:O:294:MET:HE3	1.98	0.44
25:P:290:LEU:HB2	25:P:293:LEU:CB	2.48	0.44
26:Q:7:LYS:CB	26:Q:30:LEU:HD13	2.47	0.44
26:Q:363:SER:O	26:Q:366:ILE:HG22	2.17	0.44
27:R:78:ASP:C	27:R:93:LYS:HG3	2.43	0.44
27:R:110:ILE:CG2	27:R:114:ASN:ND2	2.80	0.44
27:R:154:LEU:HD21	27:R:173:THR:CG2	2.46	0.44
29:T:182:LYS:HG2	29:T:186:ARG:NE	2.33	0.44
30:U:52:PHE:CZ	30:U:80:CYS:SG	3.10	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U:276:ILE:HB	31:V:291:ASN:ND2	2.32	0.44
31:V:127:LYS:HZ1	31:V:194:ARG:NH2	2.15	0.44
32:W:16:SER:CA	32:W:25:ARG:HH11	2.29	0.44
35:Z:612:GLY:HA2	35:Z:616:LEU:HD12	1.99	0.44
35:Z:613:ASP:H	35:Z:616:LEU:HB2	1.83	0.44
2:2:149:GLU:CG	2:2:153:LYS:HE3	2.48	0.44
4:4:147:TYR:CE1	4:4:151:MET:HB2	2.51	0.44
5:5:60:GLY:O	5:5:64:ARG:HG3	2.18	0.44
10:A:79:ILE:HD11	10:A:112:MET:O	2.18	0.44
17:H:105:ILE:CG2	17:H:145:TYR:O	2.61	0.44
23:N:96:GLN:HE22	28:S:220:ILE:HD13	1.83	0.44
24:O:11:LEU:HB3	24:O:43:GLU:CD	2.37	0.44
24:O:26:PHE:CD1	24:O:61:LEU:CD2	3.00	0.44
24:O:341:ILE:CD1	24:O:348:VAL:HG22	2.35	0.44
24:O:359:SER:O	24:O:363:ILE:HD12	2.18	0.44
25:P:115:ARG:HH22	25:P:142:ASP:CB	2.29	0.44
25:P:188:ILE:HD13	25:P:226:LYS:HB3	1.99	0.44
26:Q:298:ALA:HB1	26:Q:325:LEU:HD22	1.98	0.44
28:S:295:ALA:HA	28:S:298:ARG:NE	2.32	0.44
35:Z:315:ALA:HA	35:Z:327:GLN:HE22	1.82	0.44
35:Z:457:ILE:HD11	35:Z:902:TYR:CD1	2.52	0.44
1:1:19:ARG:CZ	1:1:26:ILE:HG21	2.48	0.44
1:1:66:TYR:CD2	1:1:73:PRO:HB3	2.53	0.44
5:5:17:ASP:C	5:5:17:ASP:OD1	2.61	0.44
7:7:170:VAL:CG1	7:7:174:ARG:NH2	2.81	0.44
17:H:155:PHE:CE1	22:M:77:TYR:O	2.71	0.44
18:I:366:THR:HA	18:I:369:MET:SD	2.58	0.44
19:J:150:VAL:CG1	19:J:197:LEU:CD1	2.95	0.44
20:K:236:ARG:HH21	21:L:310:THR:CG2	2.11	0.44
20:K:370:SER:O	20:K:374:ARG:HG3	2.18	0.44
21:L:374:PHE:CD1	21:L:374:PHE:N	2.84	0.44
21:L:374:PHE:HD1	21:L:374:PHE:N	2.15	0.44
22:M:196:ALA:CB	22:M:345:ARG:HG3	2.47	0.44
22:M:267:PHE:CZ	22:M:315:PHE:CD2	3.06	0.44
23:N:771:PHE:HE2	23:N:885:ILE:CG2	2.30	0.44
25:P:302:LEU:CB	25:P:310:ARG:NE	2.62	0.44
26:Q:429:LYS:HE3	31:V:269:ARG:NH2	2.27	0.44
27:R:261:LEU:O	27:R:336:LYS:NZ	2.50	0.44
28:S:175:SER:HB2	28:S:229:THR:HG1	1.79	0.44
29:T:197:TYR:CG	29:T:198:ASP:H	1.73	0.44
30:U:132:LEU:CD2	30:U:134:THR:O	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:V:71:MET:HE2	31:V:71:MET:HA	1.99	0.44
33:X:46:TRP:HB2	33:X:68:LEU:CD1	2.32	0.44
35:Z:121:ILE:O	35:Z:125:THR:HG23	2.18	0.44
35:Z:312:TYR:HH	35:Z:348:LEU:HD23	1.82	0.44
35:Z:610:GLY:O	35:Z:748:LEU:CB	2.62	0.44
1:1:188:PHE:HA	1:1:192:GLU:OE1	2.17	0.44
5:5:77:ALA:CB	5:5:121:ARG:NH2	2.81	0.44
13:D:133:THR:OG1	13:D:150:THR:OG1	2.36	0.44
14:E:127:ALA:HB3	14:E:130:GLU:HG2	2.00	0.44
17:H:248:LEU:HB2	17:H:256:LYS:HD3	2.00	0.44
18:I:400:GLY:C	19:J:179:ILE:HG13	2.43	0.44
19:J:126:LEU:HD21	20:K:103:ILE:HD13	2.00	0.44
21:L:259:SER:HB3	21:L:303:ARG:HH12	1.77	0.44
23:N:399:PHE:HA	23:N:441:VAL:HG11	2.00	0.44
24:O:203:THR:OG1	24:O:204:SER:N	2.49	0.44
24:O:377:VAL:HG21	30:U:200:LEU:HD11	2.00	0.44
26:Q:48:ASP:CG	26:Q:49:LYS:N	2.75	0.44
26:Q:279:LYS:O	26:Q:282:LEU:HB2	2.18	0.44
28:S:241:PHE:CZ	28:S:253:PHE:CZ	3.06	0.44
35:Z:884:THR:HG22	35:Z:888:LEU:HD13	1.99	0.44
1:1:175:MET:CE	1:1:188:PHE:HE1	2.30	0.43
5:5:19:ARG:HD2	5:5:172:GLY:N	2.33	0.43
5:5:107:LYS:O	5:5:108:GLU:HG3	2.18	0.43
7:7:33:ARG:HH12	7:7:52:MET:HE1	1.83	0.43
7:7:68:TYR:CZ	16:G:92:ARG:HG2	2.52	0.43
10:A:46:ARG:HH21	10:A:152:PRO:HD2	1.83	0.43
10:A:219:SER:HB2	10:A:222:ASP:OD2	2.18	0.43
14:E:122:ARG:CD	14:E:131:GLU:O	2.66	0.43
16:G:98:PHE:HE2	16:G:105:PRO:C	2.25	0.43
16:G:182:HIS:HB3	16:G:186:LEU:HG	1.99	0.43
17:H:154:LYS:HZ2	22:M:162:GLU:HG2	1.82	0.43
17:H:390:ARG:CA	17:H:404:TRP:CZ2	2.75	0.43
18:I:208:TYR:CE2	18:I:215:PRO:CB	2.84	0.43
21:L:163:THR:O	21:L:164:ASP:HB2	2.16	0.43
21:L:173:PHE:HZ	21:L:177:GLU:HB3	1.75	0.43
22:M:50:ARG:HB3	32:W:73:LEU:CG	2.48	0.43
22:M:357:ARG:HH22	22:M:385:GLU:H	1.65	0.43
23:N:25:LEU:CD2	23:N:64:ILE:HD12	2.48	0.43
23:N:258:ALA:HB1	23:N:289:ILE:HG21	2.00	0.43
23:N:510:HIS:CE1	23:N:512:ASN:CB	3.00	0.43
24:O:134:ALA:HB3	24:O:153:LEU:HD21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O:137:TYR:HD2	24:O:149:LEU:HD21	1.83	0.43
24:O:245:ASP:O	24:O:246:SER:HB2	2.18	0.43
24:O:345:ASN:HD21	25:P:359:ARG:HH11	1.66	0.43
25:P:202:LYS:HG2	25:P:206:LYS:HE3	1.98	0.43
27:R:259:PHE:CE2	27:R:329:PHE:CD1	3.05	0.43
27:R:353:MET:CE	27:R:364:LEU:CD2	2.61	0.43
32:W:58:ASN:HA	32:W:59:PRO:HD3	1.61	0.43
33:X:72:GLU:O	33:X:72:GLU:HG2	2.18	0.43
33:X:85:ARG:O	33:X:100:TRP:CD1	2.70	0.43
35:Z:72:LYS:NZ	35:Z:117:ASP:OD2	2.49	0.43
35:Z:426:TYR:CD2	35:Z:432:GLY:HA3	2.53	0.43
35:Z:839:SER:O	35:Z:842:GLN:HG3	2.18	0.43
1:1:8:PHE:CE2	1:1:10:ASP:CA	3.01	0.43
1:1:36:ARG:N	1:1:42:TRP:CE3	2.85	0.43
4:4:101:VAL:C	4:4:102:LEU:HD12	2.44	0.43
8:8:283:LYS:N	9:9:12:THR:H	2.12	0.43
12:C:208:TYR:CA	12:C:235:ILE:CG2	2.95	0.43
15:F:34:VAL:H	15:F:51:ARG:HH12	1.64	0.43
17:H:183:ILE:O	17:H:183:ILE:CG2	2.54	0.43
17:H:290:MET:O	17:H:294:LEU:HG	2.19	0.43
17:H:393:SER:HA	17:H:396:MET:CE	2.48	0.43
18:I:148:LEU:CD1	19:J:95:ILE:HG21	2.47	0.43
18:I:167:MET:CG	18:I:270:VAL:CG1	2.96	0.43
19:J:111:GLN:NE2	19:J:125:VAL:HG12	2.33	0.43
21:L:132:ARG:NH1	21:L:156:MET:CG	2.79	0.43
21:L:225:GLY:C	22:M:339:ARG:NH2	2.76	0.43
21:L:236:ALA:CB	21:L:277:ILE:HD12	2.41	0.43
24:O:258:LEU:HB3	24:O:291:ILE:CD1	2.48	0.43
27:R:23:ASN:HD21	27:R:143:GLN:NE2	2.16	0.43
27:R:316:LEU:HD23	27:R:322:LEU:HD13	2.00	0.43
30:U:283:ARG:HD2	31:V:284:ALA:C	2.42	0.43
31:V:40:HIS:CG	31:V:70:ALA:HB2	2.52	0.43
32:W:1:MET:H3	32:W:44:ASN:HD21	1.62	0.43
33:X:85:ARG:O	33:X:100:TRP:HD1	2.01	0.43
35:Z:491:LEU:CD2	35:Z:900:LEU:CD1	2.95	0.43
35:Z:504:GLU:O	35:Z:508:LEU:HG	2.18	0.43
2:2:81:GLN:HA	2:2:84:LYS:HE2	2.00	0.43
8:8:216:GLN:OE1	8:8:216:GLN:HA	2.18	0.43
10:A:46:ARG:CG	10:A:152:PRO:HB2	2.48	0.43
10:A:48:LYS:HZ2	10:A:195:ASN:CG	2.25	0.43
16:G:149:MET:HB3	16:G:159:TYR:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:H:65:GLU:HG3	18:I:133:LEU:HB2	2.00	0.43
19:J:329:ARG:HA	19:J:343:LEU:CD1	2.48	0.43
20:K:99:PHE:CZ	20:K:102:PRO:HD3	2.53	0.43
23:N:65:ALA:O	23:N:69:TYR:CD2	2.72	0.43
23:N:158:LEU:CD1	23:N:192:LEU:CD2	2.95	0.43
24:O:365:LYS:CB	24:O:369:ARG:HH12	2.14	0.43
24:O:377:VAL:HA	30:U:193:GLN:HE22	1.83	0.43
25:P:132:VAL:O	25:P:133:GLU:CB	2.66	0.43
25:P:425:HIS:CD2	30:U:225:ILE:CG1	3.00	0.43
26:Q:151:TYR:CZ	26:Q:187:LYS:CG	2.94	0.43
28:S:187:ILE:HG23	28:S:188:TYR:CD1	2.54	0.43
29:T:43:ASP:OD1	29:T:44:LEU:N	2.48	0.43
29:T:59:LYS:HZ3	29:T:97:SER:HA	1.83	0.43
29:T:197:TYR:CG	29:T:235:PHE:CG	3.04	0.43
30:U:231:ASP:OD1	30:U:232:VAL:N	2.51	0.43
33:X:73:THR:CG2	33:X:91:PHE:HE1	2.30	0.43
33:X:75:TRP:CA	33:X:87:PHE:HE1	2.17	0.43
35:Z:49:LEU:HD11	35:Z:55:ARG:CZ	2.48	0.43
35:Z:64:TYR:CD1	35:Z:111:LEU:HD22	2.53	0.43
35:Z:140:LEU:O	35:Z:141:SER:OG	2.25	0.43
35:Z:491:LEU:CD2	35:Z:900:LEU:HD11	2.45	0.43
1:1:4:MET:O	1:1:14:LEU:HD12	2.19	0.43
1:1:122:LEU:CD2	7:7:28:PHE:CD1	2.95	0.43
5:5:135:PHE:HB2	5:5:167:ARG:NH2	2.33	0.43
7:7:8:TYR:CE1	7:7:11:GLY:CA	3.01	0.43
7:7:54:HIS:O	7:7:58:LEU:HG	2.18	0.43
10:A:48:LYS:HD2	10:A:195:ASN:HA	2.00	0.43
10:A:74:CYS:SG	10:A:233:PHE:HD2	2.41	0.43
10:A:81:MET:SD	10:A:143:PHE:HE2	2.36	0.43
11:B:156:TYR:CD1	12:C:81:THR:HG21	2.52	0.43
15:F:31:GLN:HA	22:M:430:VAL:HG11	1.93	0.43
15:F:49:LEU:HD23	15:F:51:ARG:CZ	2.49	0.43
15:F:156:LEU:HG	16:G:58:LEU:HD23	2.01	0.43
16:G:98:PHE:CE2	16:G:105:PRO:C	2.96	0.43
16:G:137:PHE:CE2	16:G:148:TYR:HB2	2.53	0.43
17:H:271:PHE:CZ	17:H:273:ARG:NH2	2.87	0.43
19:J:329:ARG:HA	19:J:343:LEU:HD13	2.00	0.43
20:K:141:ARG:HH11	21:L:153:LEU:CD1	2.31	0.43
20:K:245:LYS:NZ	21:L:299:ARG:HE	2.16	0.43
21:L:383:SER:OG	21:L:386:PHE:CG	2.67	0.43
22:M:228:LYS:CE	22:M:326:ALA:HB1	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O:41:LEU:HD11	24:O:47:LYS:HG2	2.01	0.43
24:O:103:LYS:CA	24:O:129:ILE:HD11	2.43	0.43
24:O:344:VAL:CB	25:P:361:THR:HG23	2.42	0.43
24:O:377:VAL:HG21	30:U:200:LEU:HD12	2.00	0.43
25:P:133:GLU:N	25:P:171:MET:SD	2.82	0.43
27:R:32:LEU:CD2	27:R:318:PRO:HA	2.48	0.43
28:S:197:SER:O	28:S:198:SER:HB3	2.18	0.43
29:T:250:MET:C	29:T:251:HIS:CG	2.96	0.43
30:U:123:VAL:CG1	30:U:125:VAL:HG13	2.48	0.43
31:V:111:HIS:CD2	31:V:140:VAL:HG21	2.51	0.43
32:W:46:GLU:HB3	32:W:106:GLN:HE22	1.81	0.43
33:X:85:ARG:NE	33:X:115:SER:CB	2.81	0.43
35:Z:367:SER:OG	35:Z:859:LYS:O	2.36	0.43
35:Z:760:HIS:HD1	35:Z:761:PHE:HD1	1.65	0.43
2:2:3:ILE:HD13	2:2:46:ALA:HB2	2.00	0.43
4:4:69:ARG:CA	13:D:90:ARG:NH1	2.82	0.43
4:4:72:TYR:HH	4:4:109:LYS:HE3	1.80	0.43
6:6:193:LEU:HB2	6:6:210:LEU:HD11	2.01	0.43
11:B:117:ILE:HG22	11:B:130:PHE:HE2	1.83	0.43
16:G:69:VAL:HG11	16:G:111:PHE:CE1	2.53	0.43
17:H:389:PHE:HE1	17:H:422:VAL:HB	1.84	0.43
17:H:393:SER:HB2	17:H:404:TRP:CZ2	2.53	0.43
18:I:148:LEU:HD11	19:J:95:ILE:HG22	1.99	0.43
18:I:380:LEU:HD13	18:I:416:PHE:HB3	2.00	0.43
18:I:433:GLU:O	18:I:436:TYR:CE2	2.71	0.43
20:K:294:ARG:NH1	20:K:298:GLU:HB2	2.33	0.43
21:L:186:LEU:HD23	21:L:387:ASN:OD1	2.17	0.43
21:L:259:SER:HB3	21:L:303:ARG:NH1	2.33	0.43
22:M:312:LEU:HD11	22:M:323:VAL:HG21	2.00	0.43
23:N:208:ARG:CG	23:N:232:LEU:HD13	2.48	0.43
23:N:307:LYS:NZ	23:N:345:ASP:OD2	2.50	0.43
23:N:716:GLN:HG3	23:N:718:GLU:H	1.84	0.43
25:P:425:HIS:NE2	30:U:225:ILE:HA	2.33	0.43
27:R:252:TYR:CD1	27:R:321:TYR:CB	2.98	0.43
28:S:182:LYS:HE3	28:S:309:PHE:CZ	2.53	0.43
29:T:197:TYR:CD1	29:T:235:PHE:CG	3.05	0.43
30:U:61:LYS:NZ	32:W:127:ARG:HB3	2.34	0.43
32:W:9:VAL:C	32:W:113:PHE:HD2	2.23	0.43
35:Z:138:ARG:NE	35:Z:203:LEU:HD11	2.34	0.43
35:Z:427:GLN:O	35:Z:428:TRP:HB2	2.19	0.43
35:Z:516:THR:HB	35:Z:554:THR:HB	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:118:ILE:HG12	4:4:124:LYS:HG3	2.01	0.43
5:5:51:ASP:CG	5:5:95:LEU:HD22	2.44	0.43
5:5:135:PHE:HB2	5:5:167:ARG:HH12	1.84	0.43
7:7:169:ILE:CG2	7:7:189:LEU:HD11	2.48	0.43
8:8:211:GLU:CD	9:9:42:ARG:HH22	2.26	0.43
13:D:144:GLU:HA	13:D:145:PRO:HD3	1.64	0.43
14:E:163:THR:HB	14:E:165:TYR:CE1	2.53	0.43
14:E:165:TYR:CG	14:E:167:TYR:OH	2.71	0.43
14:E:241:LYS:O	14:E:244:LYS:HG2	2.19	0.43
17:H:175:GLY:HA2	17:H:183:ILE:HB	1.94	0.43
18:I:243:THR:HG22	18:I:245:LEU:HG	2.00	0.43
18:I:340:ARG:HH12	18:I:343:ARG:CD	2.16	0.43
19:J:324:ARG:NH2	19:J:352:GLY:N	2.61	0.43
20:K:194:GLN:CD	20:K:196:ASP:HB2	2.43	0.43
20:K:393:ARG:HD2	20:K:410:ALA:HB1	2.00	0.43
21:L:181:ASP:OD1	21:L:182:GLY:N	2.52	0.43
22:M:221:TYR:HE1	22:M:346:LYS:HG2	1.81	0.43
26:Q:46:VAL:O	26:Q:50:ARG:HB2	2.10	0.43
26:Q:90:LYS:HZ1	26:Q:129:LYS:HD3	1.83	0.43
27:R:259:PHE:HD2	27:R:329:PHE:CE1	2.29	0.43
27:R:357:PHE:CD1	27:R:357:PHE:N	2.87	0.43
30:U:35:GLY:HA3	30:U:93:TYR:CG	2.53	0.43
33:X:41:GLU:HG3	33:X:45:PHE:N	2.33	0.43
35:Z:862:MET:HG2	35:Z:910:PRO:HA	1.99	0.43
1:1:59:VAL:HG21	1:1:82:PHE:CD1	2.53	0.43
5:5:135:PHE:HB2	5:5:167:ARG:CZ	2.49	0.43
6:6:63:VAL:O	6:6:67:HIS:CD2	2.66	0.43
7:7:129:TYR:CE2	7:7:134:LEU:CD2	3.01	0.43
8:8:209:ASP:HA	9:9:73:LEU:O	2.19	0.43
10:A:96:ARG:HH12	10:A:137:LEU:HD11	1.82	0.43
12:C:45:VAL:HG21	12:C:189:ALA:HB3	1.98	0.43
12:C:208:TYR:CD2	12:C:236:LYS:HG2	2.54	0.43
13:D:176:GLU:HG2	14:E:58:LEU:CD1	2.49	0.43
23:N:383:LYS:CA	23:N:412:TYR:OH	2.65	0.43
23:N:433:THR:CB	23:N:439:VAL:HG21	2.49	0.43
24:O:69:PHE:CZ	24:O:77:SER:CB	3.02	0.43
24:O:270:ILE:HG22	24:O:271:LYS:HG2	2.01	0.43
25:P:241:LEU:CD1	25:P:264:ILE:HG12	2.45	0.43
29:T:226:TRP:NE1	29:T:235:PHE:CE2	2.85	0.43
30:U:142:GLN:O	30:U:142:GLN:HG3	2.19	0.43
30:U:230:GLN:HG3	30:U:231:ASP:N	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:X:111:LEU:HD23	33:X:115:SER:HA	2.00	0.43
35:Z:192:GLY:O	35:Z:193:PHE:CB	2.64	0.43
35:Z:333:GLY:O	35:Z:334:LYS:HB2	2.19	0.43
35:Z:377:ALA:HB2	35:Z:411:LYS:HD3	2.00	0.43
35:Z:985:LYS:HD2	35:Z:991:GLU:OE2	2.18	0.43
7:7:143:ALA:O	7:7:146:LEU:HB2	2.18	0.43
8:8:387:VAL:HG13	8:8:387:VAL:O	2.18	0.43
9:9:4:PHE:HB3	9:9:12:THR:CG2	2.49	0.43
10:A:69:VAL:HA	16:G:157:TRP:CZ3	2.54	0.43
14:E:143:LEU:HG	14:E:172:ILE:HD13	1.99	0.43
17:H:420:ARG:HE	18:I:342:GLY:HA3	1.83	0.43
20:K:67:TYR:CD2	23:N:572:LEU:HB3	2.53	0.43
21:L:197:ILE:O	21:L:201:LEU:HG	2.18	0.43
22:M:385:GLU:O	22:M:426:LYS:HD2	2.18	0.43
23:N:310:ASP:OD1	23:N:312:GLY:N	2.48	0.43
24:O:26:PHE:HD1	24:O:61:LEU:HG	1.81	0.43
25:P:360:ILE:HD12	25:P:365:LEU:HD13	2.01	0.43
26:Q:14:LEU:HD12	26:Q:26:VAL:CG2	2.23	0.43
26:Q:356:CYS:SG	26:Q:398:TYR:CE1	3.07	0.43
27:R:171:MET:SD	27:R:194:VAL:CG2	2.99	0.43
29:T:10:SER:O	29:T:13:ILE:HG22	2.19	0.43
29:T:48:ASN:OD1	29:T:50:ILE:HB	2.19	0.43
29:T:149:ASP:HA	29:T:152:LEU:HD12	2.00	0.43
30:U:283:ARG:NE	31:V:287:THR:HB	2.33	0.43
35:Z:61:SER:OG	35:Z:111:LEU:HD11	2.19	0.43
35:Z:99:LEU:HD22	35:Z:115:LEU:HD21	1.99	0.43
35:Z:546:ILE:HG21	35:Z:566:LEU:CD2	2.48	0.43
35:Z:889:VAL:CG2	35:Z:890:SER:N	2.82	0.43
7:7:68:TYR:O	7:7:69:ASP:HB2	2.19	0.43
8:8:283:LYS:C	9:9:12:THR:HG22	2.44	0.43
10:A:46:ARG:CZ	10:A:152:PRO:O	2.67	0.43
10:A:119:LYS:CG	10:A:163:TYR:CE2	2.94	0.43
13:D:96:HIS:CE1	13:D:100:LEU:HD12	2.46	0.43
17:H:389:PHE:CE1	17:H:422:VAL:HB	2.54	0.43
21:L:174:GLU:HG2	21:L:175:GLN:HE22	1.77	0.43
22:M:77:TYR:CE2	22:M:79:VAL:CG1	3.02	0.43
22:M:256:ILE:O	22:M:258:GLU:N	2.51	0.43
23:N:721:ASP:O	23:N:897:LYS:NZ	2.52	0.43
25:P:337:HIS:O	25:P:341:LEU:HG	2.18	0.43
26:Q:51:ARG:NH2	26:Q:92:LYS:CG	2.82	0.43
26:Q:298:ALA:CB	26:Q:325:LEU:HD22	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:R:422:ARG:NH2	28:S:299:LYS:HB2	2.34	0.43
30:U:18:ALA:HB2	30:U:93:TYR:CE2	2.53	0.43
30:U:283:ARG:CZ	31:V:284:ALA:CA	2.83	0.43
35:Z:193:PHE:HE2	35:Z:200:THR:CG2	2.29	0.43
35:Z:205:LEU:HA	35:Z:232:LYS:HD3	2.00	0.43
35:Z:610:GLY:O	35:Z:748:LEU:CG	2.66	0.43
35:Z:890:SER:CB	35:Z:891:PRO:HD3	2.45	0.43
4:4:11:SER:CB	4:4:182:ILE:CG2	2.94	0.43
5:5:124:GLY:N	5:5:127:PHE:CZ	2.86	0.43
8:8:206:LYS:NZ	9:9:74:ARG:HG2	2.34	0.43
10:A:68:THR:O	16:G:157:TRP:CZ3	2.72	0.43
10:A:158:ASP:C	10:A:158:ASP:OD1	2.60	0.43
15:F:123:TYR:C	15:F:123:TYR:HD1	2.23	0.43
20:K:96:ILE:HG13	21:L:128:ILE:HG13	2.01	0.43
20:K:303:MET:HE2	20:K:314:VAL:HG11	2.01	0.43
21:L:357:ARG:HB3	21:L:361:PHE:CE2	2.49	0.43
23:N:325:PHE:HA	31:V:182:LYS:CD	2.48	0.43
23:N:406:TYR:CE1	23:N:448:LEU:CB	3.01	0.43
23:N:482:ALA:HB1	23:N:517:LEU:HD23	2.01	0.43
24:O:380:LEU:HD22	30:U:259:ASN:HD22	1.84	0.43
25:P:299:LEU:O	25:P:303:PHE:CD2	2.71	0.43
27:R:110:ILE:CG2	27:R:114:ASN:HD21	2.32	0.43
27:R:194:VAL:CG2	27:R:199:GLU:CD	2.92	0.43
29:T:110:LEU:O	29:T:114:LEU:HG	2.18	0.43
35:Z:64:TYR:OH	35:Z:115:LEU:CD2	2.64	0.43
35:Z:422:ILE:HD11	35:Z:436:LEU:HD21	2.01	0.43
1:1:38:HIS:HB3	1:1:41:ILE:HB	2.00	0.42
1:1:122:LEU:HB3	1:1:123:PRO:HD2	2.01	0.42
2:2:33:LYS:O	2:2:35:HIS:CD2	2.72	0.42
4:4:33:LYS:C	4:4:34:THR:HG23	2.44	0.42
10:A:43:LEU:C	10:A:43:LEU:HD12	2.44	0.42
11:B:132:VAL:HG22	11:B:133:SER:N	2.33	0.42
12:C:133:VAL:HG13	12:C:135:PHE:CE1	2.54	0.42
15:F:171:TYR:CE1	15:F:196:ALA:HB2	2.53	0.42
17:H:168:ILE:HG12	17:H:186:PRO:HB3	2.01	0.42
17:H:305:ILE:CG2	17:H:352:MET:SD	3.07	0.42
17:H:430:ALA:HB1	17:H:435:ARG:HB2	2.01	0.42
17:H:430:ALA:CA	17:H:435:ARG:HH21	2.27	0.42
19:J:37:LYS:CG	20:K:58:TYR:CE1	3.01	0.42
19:J:156:GLN:HG2	19:J:160:ILE:CG1	2.49	0.42
24:O:185:PHE:CD1	24:O:279:ILE:CD1	3.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Q:351:ILE:HG22	26:Q:362:ILE:HD11	2.00	0.42
26:Q:415:LEU:HD21	30:U:278:ILE:CG2	2.48	0.42
27:R:301:TYR:HA	27:R:304:TYR:HB3	2.01	0.42
28:S:284:LEU:HD13	28:S:382:ARG:NH2	2.34	0.42
32:W:162:ASN:O	32:W:163:ASN:ND2	2.52	0.42
35:Z:68:LEU:HD13	35:Z:114:SER:HB2	2.01	0.42
35:Z:568:LEU:HG	35:Z:738:TYR:OH	2.18	0.42
35:Z:581:VAL:CG2	35:Z:603:VAL:CG1	2.97	0.42
35:Z:889:VAL:HG11	35:Z:892:SER:HB3	2.01	0.42
1:1:157:HIS:NE2	1:1:161:GLN:NE2	2.67	0.42
2:2:57:GLN:HB3	11:B:99:ARG:HD3	2.01	0.42
3:3:44:ILE:HG12	3:3:98:PRO:CA	2.48	0.42
3:3:76:GLU:HA	3:3:111:PHE:CZ	2.54	0.42
4:4:95:ARG:HH21	5:5:92:GLY:HA3	1.83	0.42
6:6:138:MET:HB3	6:6:139:PRO:HD3	2.00	0.42
7:7:42:VAL:CG2	7:7:192:ILE:HD11	2.49	0.42
11:B:141:GLU:OE2	11:B:231:LYS:HD2	2.19	0.42
12:C:176:LEU:CD2	12:C:196:THR:HG21	2.49	0.42
18:I:252:LEU:CD2	18:I:263:LEU:HD21	2.49	0.42
19:J:167:PRO:CA	19:J:174:PHE:CZ	2.92	0.42
20:K:99:PHE:CE2	20:K:102:PRO:HD3	2.54	0.42
21:L:173:PHE:HE1	21:L:176:GLY:C	2.28	0.42
21:L:227:GLY:CA	22:M:339:ARG:NH2	2.82	0.42
21:L:269:TYR:CZ	21:L:273:HIS:CD2	3.06	0.42
23:N:12:LEU:HD11	29:T:40:LEU:HB3	2.01	0.42
23:N:13:LEU:HD12	23:N:21:LYS:HD3	2.00	0.42
23:N:675:VAL:HA	23:N:678:ILE:HD12	2.01	0.42
24:O:30:GLU:OE2	24:O:58:ARG:HD3	2.19	0.42
25:P:60:ALA:HA	25:P:96:MET:CE	2.49	0.42
25:P:127:GLU:CD	25:P:130:ILE:HG22	2.45	0.42
26:Q:223:GLY:HA3	26:Q:239:PHE:CZ	2.54	0.42
30:U:5:HIS:CE1	30:U:6:GLU:O	2.71	0.42
30:U:19:LEU:HD13	31:V:209:GLU:HG3	2.00	0.42
33:X:93:SER:CB	33:X:96:ARG:NH2	2.82	0.42
35:Z:506:LEU:HD23	35:Z:506:LEU:O	2.20	0.42
3:3:42:LEU:HD22	3:3:78:PHE:CZ	2.38	0.42
3:3:75:PRO:HB3	3:3:111:PHE:CD2	2.49	0.42
3:3:172:SER:O	3:3:193:MET:HE1	2.18	0.42
8:8:326:LYS:HZ2	9:9:74:ARG:NE	2.08	0.42
12:C:34:THR:OG1	12:C:167:ALA:O	2.31	0.42
12:C:92:ARG:O	12:C:95:ALA:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:D:104:VAL:HG11	13:D:109:LEU:CD1	2.49	0.42
15:F:91:GLN:NE2	15:F:115:LYS:HZ1	2.17	0.42
15:F:154:THR:CG2	15:F:156:LEU:HD11	2.49	0.42
21:L:74:LEU:HD11	22:M:47:GLU:HB3	2.00	0.42
21:L:75:LYS:HA	21:L:78:ARG:HH21	1.83	0.42
21:L:174:GLU:O	21:L:175:GLN:HB2	2.19	0.42
23:N:314:LEU:CD1	23:N:336:ASN:OD1	2.67	0.42
23:N:420:THR:C	23:N:424:LYS:HZ3	2.27	0.42
24:O:62:TYR:CE2	24:O:82:LEU:CD1	3.01	0.42
24:O:210:ARG:HH22	24:O:242:ILE:CG1	2.32	0.42
24:O:226:LYS:HB3	24:O:226:LYS:HZ3	1.84	0.42
26:Q:71:LYS:NZ	26:Q:72:ASP:OD1	2.50	0.42
26:Q:90:LYS:CD	26:Q:129:LYS:HE2	2.46	0.42
26:Q:149:LYS:HG2	26:Q:149:LYS:O	2.19	0.42
27:R:93:LYS:CG	27:R:94:PHE:N	2.81	0.42
27:R:158:LEU:HD13	27:R:170:VAL:HG23	2.01	0.42
28:S:185:PHE:CD1	28:S:239:ARG:CD	3.03	0.42
29:T:25:LYS:C	29:T:28:PRO:HD2	2.45	0.42
30:U:19:LEU:HD22	30:U:20:ASP:OD1	2.19	0.42
30:U:38:LEU:HD21	30:U:52:PHE:HE1	1.83	0.42
33:X:69:ILE:H	33:X:73:THR:HG21	1.83	0.42
35:Z:741:LEU:CD2	35:Z:782:ILE:HD12	2.48	0.42
1:1:31:THR:O	1:1:174:ARG:HD2	2.18	0.42
5:5:116:ASP:C	5:5:116:ASP:OD1	2.62	0.42
6:6:65:TRP:CZ2	15:F:93:ASN:ND2	2.86	0.42
7:7:5:SER:OG	7:7:119:LEU:HD11	2.19	0.42
7:7:93:TYR:O	7:7:96:ARG:HG2	2.19	0.42
14:E:165:TYR:OH	22:M:434:ALA:HB3	2.19	0.42
17:H:152:ILE:O	17:H:152:ILE:HG22	2.18	0.42
17:H:184:GLU:HG2	17:H:185:LEU:HG	2.00	0.42
19:J:48:ARG:HD3	20:K:68:ILE:HG23	2.00	0.42
19:J:250:ILE:HA	19:J:299:ILE:HD11	2.01	0.42
20:K:96:ILE:HD11	21:L:118:ILE:HG12	2.01	0.42
20:K:236:ARG:HE	21:L:310:THR:HG23	1.85	0.42
21:L:135:VAL:HB	21:L:158:ILE:CD1	2.49	0.42
21:L:328:ASN:HD22	21:L:329:ARG:CG	2.28	0.42
23:N:641:LEU:HB2	23:N:660:LEU:CD2	2.48	0.42
24:O:161:ASP:O	24:O:162:SER:HB2	2.19	0.42
24:O:254:LEU:HA	24:O:269:LEU:HD11	2.00	0.42
24:O:345:ASN:ND2	25:P:359:ARG:HD2	2.34	0.42
25:P:114:THR:O	25:P:118:VAL:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Q:419:LEU:C	26:Q:419:LEU:CD2	2.88	0.42
27:R:139:GLU:O	27:R:143:GLN:HG2	2.20	0.42
27:R:382:ASP:HB2	28:S:399:TYR:HB3	2.01	0.42
27:R:422:ARG:HH21	28:S:299:LYS:HG3	1.84	0.42
28:S:421:TYR:CE2	29:T:158:GLN:HB2	2.54	0.42
28:S:439:GLU:OE1	28:S:439:GLU:N	2.53	0.42
29:T:41:ILE:HG23	29:T:43:ASP:H	1.83	0.42
31:V:261:LEU:HD13	31:V:283:THR:HG22	2.00	0.42
32:W:41:ARG:CZ	32:W:67:ALA:C	2.92	0.42
33:X:46:TRP:HH2	33:X:131:ASN:CB	2.33	0.42
1:1:138:CYS:O	1:1:142:PHE:HB2	2.20	0.42
2:2:188:ARG:H	11:B:227:ILE:HD12	1.84	0.42
4:4:129:TYR:CD2	4:4:143:LEU:HD13	2.55	0.42
8:8:212:GLU:CG	9:9:42:ARG:CD	2.98	0.42
10:A:104:PHE:CE2	10:A:112:MET:HA	2.54	0.42
10:A:127:ILE:O	10:A:131:ARG:HG3	2.20	0.42
11:B:64:VAL:HG22	11:B:74:VAL:HG12	2.02	0.42
14:E:52:LYS:HE2	14:E:217:ALA:C	2.45	0.42
14:E:178:GLY:H	17:H:409:ARG:HH12	1.66	0.42
18:I:398:GLU:OE1	18:I:419:ALA:HB1	2.20	0.42
19:J:111:GLN:CG	19:J:125:VAL:HG13	2.50	0.42
20:K:244:HIS:CE1	20:K:250:GLY:N	2.87	0.42
21:L:109:MET:HE3	21:L:120:LYS:HB3	2.01	0.42
22:M:289:LYS:HZ1	22:M:334:ASP:CB	2.27	0.42
23:N:25:LEU:CD1	23:N:57:ASP:HB3	2.43	0.42
23:N:309:ILE:HD12	23:N:340:HIS:HD2	1.83	0.42
23:N:455:MET:HG2	23:N:487:LEU:O	2.19	0.42
24:O:117:ASN:ND2	24:O:167:ILE:HA	2.29	0.42
24:O:230:PHE:HD1	24:O:251:LEU:HD12	1.83	0.42
25:P:181:LEU:HD12	25:P:223:LEU:CD1	2.49	0.42
27:R:191:LEU:HD12	27:R:210:TYR:CE1	2.55	0.42
27:R:372:ILE:HD11	27:R:381:ILE:HG12	2.00	0.42
30:U:22:TYR:CE1	30:U:27:THR:CG2	3.02	0.42
31:V:36:LYS:HB3	31:V:68:VAL:HG12	2.01	0.42
31:V:279:HIS:O	31:V:283:THR:N	2.42	0.42
33:X:12:ALA:HB3	33:X:33:ILE:CG2	2.49	0.42
35:Z:768:GLY:O	35:Z:769:ASN:HB3	2.19	0.42
1:1:-5:GLU:N	2:2:116:HIS:ND1	2.67	0.42
5:5:124:GLY:CA	5:5:127:PHE:CZ	3.03	0.42
14:E:157:HIS:CD2	14:E:170:LYS:HZ1	2.34	0.42
14:E:219:LEU:HB2	14:E:231:TYR:HD2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:G:146:HIS:HB3	16:G:148:TYR:HE1	0.83	0.42
20:K:309:SER:O	20:K:310:THR:HB	2.20	0.42
22:M:186:LEU:CB	22:M:231:LEU:HD21	2.49	0.42
23:N:142:GLU:O	23:N:146:LYS:HG3	2.19	0.42
23:N:376:LYS:HA	23:N:411:ILE:HG12	2.02	0.42
23:N:510:HIS:HD1	23:N:512:ASN:N	2.17	0.42
23:N:555:ILE:O	23:N:559:TYR:HD2	2.03	0.42
24:O:345:ASN:HD21	25:P:359:ARG:NH1	2.17	0.42
25:P:207:THR:CB	25:P:217:LYS:CE	2.95	0.42
26:Q:61:LEU:HD13	26:Q:65:TYR:HE2	1.81	0.42
26:Q:115:ILE:HD11	26:Q:148:LYS:HD2	2.01	0.42
33:X:66:LEU:HD21	33:X:91:PHE:HZ	1.84	0.42
35:Z:329:ILE:HG12	35:Z:334:LYS:O	2.20	0.42
35:Z:916:LEU:HD22	35:Z:921:GLU:C	2.45	0.42
5:5:80:SER:HA	5:5:101:ILE:CD1	2.50	0.42
6:6:152:GLU:HB2	6:6:161:LYS:HG3	2.02	0.42
8:8:212:GLU:CG	9:9:42:ARG:NE	2.81	0.42
8:8:490:LEU:HD13	9:9:73:LEU:HD12	2.01	0.42
9:9:1:MET:HE3	9:9:19:PRO:HG3	2.02	0.42
14:E:52:LYS:HE2	14:E:218:GLN:HB2	2.02	0.42
15:F:78:ALA:HB3	15:F:79:PRO:HD3	2.02	0.42
16:G:183:PRO:O	16:G:184:GLU:HG2	2.19	0.42
17:H:166:THR:O	17:H:166:THR:HG22	2.20	0.42
17:H:224:VAL:HG22	17:H:243:PRO:HG2	2.02	0.42
17:H:279:LEU:O	17:H:281:GLN:N	2.52	0.42
20:K:122:ILE:HD12	20:K:127:ASP:HA	2.01	0.42
21:L:354:GLU:HG2	21:L:357:ARG:NH2	2.35	0.42
22:M:197:ILE:C	22:M:200:PRO:HD2	2.45	0.42
23:N:361:ASN:ND2	23:N:399:PHE:CZ	2.87	0.42
23:N:641:LEU:CB	23:N:660:LEU:CD2	2.96	0.42
24:O:5:HIS:HE1	24:O:27:GLU:OE1	2.02	0.42
24:O:292:CYS:SG	24:O:317:THR:OG1	2.72	0.42
25:P:34:SER:O	25:P:38:GLN:HB2	2.19	0.42
25:P:196:ALA:CB	25:P:227:ILE:CD1	2.91	0.42
26:Q:24:GLU:O	26:Q:28:LEU:HG	2.19	0.42
26:Q:27:TYR:OH	26:Q:54:GLN:CG	2.62	0.42
27:R:34:THR:O	27:R:70:TYR:CE1	2.73	0.42
29:T:59:LYS:CD	29:T:97:SER:HA	2.49	0.42
29:T:82:PHE:HB2	29:T:109:TYR:HE1	1.64	0.42
29:T:224:ARG:O	29:T:225:ASN:ND2	2.52	0.42
30:U:92:TRP:CD1	30:U:119:LEU:C	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:V:106:GLY:C	31:V:107:TRP:HD1	2.26	0.42
31:V:280:LEU:HA	31:V:283:THR:HB	2.01	0.42
32:W:9:VAL:HG22	32:W:52:ILE:HD11	2.01	0.42
33:X:47:ASP:OD2	33:X:65:SER:HB3	2.20	0.42
35:Z:850:LEU:CD2	35:Z:901:PHE:CE1	3.02	0.42
35:Z:985:LYS:HB2	35:Z:991:GLU:CG	2.50	0.42
4:4:37:LEU:HA	4:4:60:GLN:HE22	1.85	0.42
5:5:8:PHE:HE1	5:5:12:ILE:C	2.27	0.42
5:5:76:VAL:HG12	5:5:113:TYR:CD1	2.53	0.42
8:8:114:MSE:CE	8:8:180:LEU:HA	2.49	0.42
14:E:231:TYR:HH	14:E:235:LYS:C	2.18	0.42
16:G:24:GLU:O	16:G:28:LYS:HG3	2.20	0.42
17:H:304:CYS:SG	17:H:349:ILE:HG12	2.60	0.42
17:H:441:LYS:O	17:H:445:LYS:HG3	2.19	0.42
18:I:196:GLU:CD	18:I:200:LEU:HD23	2.45	0.42
19:J:238:ARG:HA	19:J:288:ILE:HD11	2.01	0.42
19:J:350:MET:CG	19:J:386:VAL:HG22	2.50	0.42
22:M:361:LEU:C	22:M:376:TRP:CE2	2.98	0.42
24:O:261:GLY:HA3	24:O:288:ARG:HH12	1.85	0.42
26:Q:24:GLU:OE2	26:Q:77:PHE:CE2	2.55	0.42
26:Q:197:SER:O	26:Q:200:ALA:HB3	2.20	0.42
27:R:312:TYR:HE2	34:Y:73:PHE:CD1	2.34	0.42
28:S:320:ILE:HD13	28:S:323:LEU:HD12	2.00	0.42
31:V:24:LYS:NZ	31:V:197:TYR:HE2	2.09	0.42
33:X:75:TRP:CZ3	33:X:125:MET:HB3	2.55	0.42
35:Z:49:LEU:HD11	35:Z:55:ARG:NH2	2.34	0.42
35:Z:188:ALA:O	35:Z:193:PHE:HD2	2.02	0.42
35:Z:321:PHE:CE2	35:Z:351:PRO:N	2.87	0.42
1:1:-5:GLU:N	2:2:116:HIS:CE1	2.86	0.42
1:1:138:CYS:HA	1:1:154:PHE:CZ	2.54	0.42
2:2:8:PHE:CE1	2:2:12:VAL:CA	3.02	0.42
4:4:95:ARG:HH21	5:5:92:GLY:C	2.27	0.42
5:5:9:GLN:HA	5:5:146:TRP:CZ2	2.54	0.42
12:C:78:ALA:HB3	12:C:165:VAL:HG23	2.01	0.42
14:E:143:LEU:HD23	14:E:157:HIS:ND1	2.34	0.42
15:F:15:PRO:HG3	16:G:25:TYR:CZ	2.55	0.42
16:G:217:TRP:C	16:G:217:TRP:CD1	2.98	0.42
18:I:188:GLU:HA	18:I:191:ILE:HD12	2.02	0.42
18:I:252:LEU:HD22	18:I:263:LEU:HD23	2.00	0.42
20:K:207:ARG:NE	20:K:307:ASP:O	2.53	0.42
20:K:347:ARG:CD	26:Q:215:VAL:HG13	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:L:392:ARG:HH21	22:M:339:ARG:HG3	1.85	0.42
22:M:170:MET:CB	22:M:244:LEU:HD11	2.31	0.42
22:M:309:LEU:HD22	22:M:342:ARG:CG	2.49	0.42
23:N:14:ARG:CZ	23:N:42:GLU:OE1	2.68	0.42
23:N:21:LYS:HE3	23:N:49:LEU:HD21	2.02	0.42
23:N:280:GLN:HG3	23:N:282:TYR:H	1.85	0.42
24:O:258:LEU:HB3	24:O:291:ILE:CG1	2.49	0.42
25:P:263:HIS:NE2	25:P:327:LEU:HB2	2.35	0.42
25:P:319:GLU:O	25:P:323:ASN:CG	2.62	0.42
26:Q:429:LYS:HG2	30:U:292:ILE:CG2	2.49	0.42
27:R:199:GLU:CB	27:R:206:ARG:HE	2.29	0.42
28:S:142:VAL:HA	28:S:145:PHE:CE2	2.54	0.42
28:S:468:ALA:O	28:S:472:HIS:CB	2.66	0.42
29:T:135:ASN:O	29:T:142:LEU:HD12	2.19	0.42
31:V:251:TYR:O	31:V:255:ILE:HG12	2.19	0.42
35:Z:237:VAL:CG1	35:Z:245:VAL:HG12	2.40	0.42
35:Z:276:ASN:O	35:Z:277:GLU:HB2	2.18	0.42
3:3:1:GLY:HA3	3:3:33:LYS:HZ3	1.85	0.42
5:5:126:ILE:HG23	5:5:140:LEU:HD21	2.02	0.42
6:6:77:ILE:HD11	6:6:102:ILE:HD12	2.02	0.42
9:9:44:ILE:HD13	9:9:49:GLN:HA	2.02	0.42
11:B:37:ILE:HD11	11:B:175:LEU:CD2	2.49	0.42
12:C:54:SER:H	12:C:59:GLN:HE21	1.67	0.42
13:D:32:CYS:SG	13:D:166:ARG:HB3	2.59	0.42
13:D:179:TYR:CE1	13:D:184:PRO:CB	3.03	0.42
14:E:157:HIS:CD2	14:E:170:LYS:CE	3.03	0.42
17:H:410:LEU:HB3	17:H:447:VAL:HG11	2.02	0.42
17:H:420:ARG:NE	18:I:343:ARG:NH1	2.68	0.42
18:I:118:ALA:O	18:I:130:VAL:HG22	2.20	0.42
18:I:250:SER:HA	18:I:253:ILE:CD1	2.50	0.42
18:I:262:ARG:CG	19:J:223:ILE:HD12	2.50	0.42
19:J:182:PRO:O	19:J:286:LYS:NZ	2.45	0.42
19:J:336:ASN:CG	27:R:204:TRP:CD1	2.96	0.42
21:L:309:LEU:HD23	21:L:342:ARG:CD	2.22	0.42
22:M:71:ASN:HB3	31:V:75:GLY:HA3	2.02	0.42
23:N:123:PHE:CZ	23:N:129:ILE:HB	2.55	0.42
24:O:185:PHE:HB3	24:O:223:LEU:HB2	2.01	0.42
24:O:304:ASN:HB3	24:O:352:TRP:CD1	2.55	0.42
26:Q:115:ILE:HG13	26:Q:144:LEU:HD13	2.02	0.42
29:T:90:PHE:O	29:T:91:SER:HB3	2.20	0.42
30:U:97:PRO:CG	30:U:100:ARG:HH21	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:U:158:PRO:O	30:U:159:CYS:CB	2.62	0.42
4:4:179:ILE:HG21	4:4:190:GLN:NE2	2.35	0.41
5:5:174:SER:HA	5:5:193:VAL:HG13	2.02	0.41
10:A:64:LEU:C	10:A:64:LEU:HD23	2.45	0.41
13:D:31:THR:OG1	13:D:47:GLU:HB2	2.19	0.41
16:G:166:LYS:HZ1	16:G:206:ASN:CG	2.21	0.41
16:G:204:GLU:HA	16:G:207:LYS:CE	2.37	0.41
17:H:168:ILE:CD1	17:H:186:PRO:HB2	2.50	0.41
17:H:211:VAL:HA	17:H:218:ILE:CD1	2.50	0.41
20:K:155:ASP:C	21:L:126:ARG:CZ	2.91	0.41
20:K:304:ASP:HB2	20:K:333:ARG:NH2	2.34	0.41
21:L:82:ARG:NH1	21:L:86:LYS:NZ	2.69	0.41
21:L:372:GLY:O	21:L:374:PHE:CD1	2.73	0.41
23:N:246:LYS:HE2	23:N:282:TYR:CB	2.50	0.41
23:N:479:GLU:CG	23:N:512:ASN:OD1	2.68	0.41
24:O:83:LEU:CD1	24:O:128:LEU:CD2	2.82	0.41
24:O:116:ASN:HD22	24:O:121:ASP:CB	2.31	0.41
24:O:202:SER:C	24:O:203:THR:HG22	2.39	0.41
25:P:180:ILE:CG2	25:P:184:MET:HE3	2.50	0.41
25:P:241:LEU:HD13	25:P:264:ILE:CG1	2.46	0.41
26:Q:412:ALA:HB2	27:R:400:TYR:CE1	2.51	0.41
27:R:292:LEU:CD2	27:R:307:TYR:HB3	2.49	0.41
27:R:352:SER:O	27:R:357:PHE:CD1	2.73	0.41
28:S:208:ILE:HG23	28:S:209:ILE:N	2.34	0.41
29:T:198:ASP:O	29:T:199:PHE:CD1	2.73	0.41
30:U:92:TRP:CD1	30:U:92:TRP:N	2.88	0.41
31:V:44:GLY:HA3	31:V:49:VAL:HG22	2.01	0.41
35:Z:126:TYR:O	35:Z:127:SER:HB3	2.16	0.41
35:Z:534:PHE:O	35:Z:573:LEU:HD22	2.19	0.41
35:Z:889:VAL:H	35:Z:894:MET:HE3	1.82	0.41
6:6:-7:ASN:OD1	6:6:-5:TYR:HB2	2.20	0.41
7:7:19:LEU:HD21	7:7:21:SER:OG	2.20	0.41
10:A:199:TRP:HH2	10:A:244:ARG:HH11	1.68	0.41
11:B:139:HIS:CG	11:B:145:PHE:CE1	3.07	0.41
18:I:176:SER:C	19:J:282:PHE:CE1	2.99	0.41
18:I:290:LYS:HB3	18:I:335:ASP:OD2	2.19	0.41
20:K:99:PHE:CZ	20:K:102:PRO:CD	3.04	0.41
21:L:198:GLU:HG3	21:L:239:ILE:HD11	2.01	0.41
22:M:189:GLN:OE1	22:M:189:GLN:N	2.47	0.41
22:M:361:LEU:CB	22:M:376:TRP:CE2	2.94	0.41
23:N:510:HIS:HD1	23:N:512:ASN:H	1.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:N:782:PHE:CE1	23:N:875:LEU:HD22	2.50	0.41
24:O:69:PHE:CZ	24:O:77:SER:HB3	2.55	0.41
24:O:117:ASN:HB3	24:O:166:ARG:HB3	2.01	0.41
24:O:277:ILE:CG2	24:O:279:ILE:CA	2.82	0.41
26:Q:237:SER:O	26:Q:240:PHE:HB3	2.19	0.41
27:R:415:GLN:CD	28:S:471:LEU:HD21	2.40	0.41
28:S:182:LYS:HE3	28:S:309:PHE:CE2	2.56	0.41
28:S:398:THR:OG1	28:S:402:ILE:HD11	2.20	0.41
30:U:127:GLN:CG	31:V:212:MET:HB3	2.51	0.41
32:W:69:PHE:O	32:W:73:LEU:HG	2.20	0.41
32:W:152:GLU:O	32:W:155:ASP:HB2	2.20	0.41
33:X:75:TRP:CE2	33:X:125:MET:HG3	2.50	0.41
35:Z:161:ILE:HD13	35:Z:207:ILE:HD11	2.00	0.41
35:Z:322:GLU:HG2	35:Z:323:TYR:CD2	2.56	0.41
35:Z:357:ILE:HG12	35:Z:960:GLY:CA	2.47	0.41
35:Z:864:MET:O	35:Z:865:ASP:CG	2.63	0.41
2:2:82:MET:C	2:2:86:HIS:HD2	2.22	0.41
5:5:12:ILE:O	5:5:179:HIS:HD2	2.03	0.41
5:5:61:SER:HA	5:5:64:ARG:NH2	2.36	0.41
5:5:83:LEU:HD11	5:5:97:MET:SD	2.61	0.41
10:A:87:ILE:HD13	16:G:157:TRP:CH2	2.55	0.41
16:G:107:PRO:HD2	16:G:110:ALA:CB	2.50	0.41
20:K:280:LYS:HE2	20:K:325:ASP:OD2	2.19	0.41
21:L:111:GLU:CG	21:L:117:TYR:CD2	2.94	0.41
21:L:163:THR:HG21	21:L:269:TYR:CD2	2.55	0.41
23:N:517:LEU:O	23:N:521:LEU:HG	2.20	0.41
24:O:88:ASP:OD2	24:O:206:THR:HG21	2.20	0.41
26:Q:326:MET:HE2	26:Q:332:ARG:CD	2.48	0.41
26:Q:416:VAL:CG2	27:R:403:LEU:HD22	2.44	0.41
27:R:71:LEU:HD12	27:R:76:GLN:HB2	2.01	0.41
28:S:223:LEU:HD22	28:S:259:TYR:CE1	2.55	0.41
28:S:364:ILE:HG23	28:S:371:LEU:CD1	2.50	0.41
29:T:35:ILE:HA	29:T:40:LEU:HD11	2.02	0.41
30:U:32:ARG:NH1	30:U:103:ASP:OD1	2.46	0.41
34:Y:83:ARG:O	34:Y:87:GLU:HG3	2.20	0.41
35:Z:214:HIS:O	35:Z:214:HIS:CG	2.72	0.41
35:Z:809:MET:SD	35:Z:893:PHE:HB2	2.61	0.41
2:2:104:ASP:OD1	2:2:104:ASP:C	2.62	0.41
5:5:104:TYR:CD1	5:5:182:GLU:HA	2.55	0.41
13:D:9:SER:HA	13:D:19:GLN:CD	2.45	0.41
14:E:165:TYR:HB3	14:E:167:TYR:CZ	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:I:167:MET:HG2	18:I:270:VAL:HG11	2.00	0.41
18:I:358:LYS:HG2	18:I:392:ILE:HD11	2.00	0.41
19:J:320:SER:O	19:J:324:ARG:HG3	2.20	0.41
19:J:374:ARG:HH11	19:J:378:THR:CG2	2.34	0.41
20:K:152:PRO:HB3	20:K:259:ARG:HD2	2.03	0.41
20:K:173:ASP:C	20:K:174:VAL:HG13	2.45	0.41
20:K:244:HIS:CE1	20:K:250:GLY:H	2.39	0.41
23:N:246:LYS:HZ1	23:N:280:GLN:HB2	1.83	0.41
24:O:188:PHE:CD2	24:O:220:SER:CB	2.93	0.41
26:Q:69:GLY:C	26:Q:71:LYS:H	2.28	0.41
27:R:30:ALA:O	27:R:34:THR:HG23	2.20	0.41
27:R:63:TYR:CZ	27:R:92:ILE:O	2.72	0.41
27:R:183:ASP:CG	27:R:184:GLN:H	2.28	0.41
28:S:377:TYR:CD2	29:T:132:HIS:CD2	3.08	0.41
29:T:38:ASN:C	29:T:39:LEU:HG	2.45	0.41
31:V:59:ASP:C	31:V:59:ASP:OD1	2.62	0.41
33:X:46:TRP:CH2	33:X:131:ASN:CB	3.03	0.41
35:Z:189:ALA:O	35:Z:190:THR:HB	2.21	0.41
35:Z:253:VAL:HG13	35:Z:264:PHE:HE2	1.86	0.41
35:Z:473:LEU:O	35:Z:477:TYR:CD2	2.73	0.41
35:Z:617:ILE:CD1	35:Z:747:ALA:HB2	2.50	0.41
2:2:213:LEU:HB2	3:3:192:LYS:HB2	2.03	0.41
8:8:317:PHE:HA	9:9:73:LEU:HD21	1.38	0.41
12:C:198:SER:HA	12:C:206:LEU:HD22	2.03	0.41
13:D:11:PHE:HE1	14:E:136:ARG:HD2	1.85	0.41
13:D:208:LYS:HG2	13:D:226:SER:HB3	2.02	0.41
15:F:11:VAL:HG21	16:G:126:ASN:O	2.21	0.41
15:F:40:SER:HA	15:F:180:ILE:HA	2.02	0.41
15:F:215:ILE:HG13	15:F:220:THR:CG2	2.45	0.41
16:G:197:LYS:HD3	16:G:241:PHE:HE2	1.83	0.41
17:H:318:ARG:HH11	17:H:364:ALA:HB3	1.85	0.41
17:H:414:SER:HA	17:H:418:GLU:OE2	2.20	0.41
18:I:266:GLN:NE2	19:J:223:ILE:HG21	2.35	0.41
20:K:268:ILE:HD13	20:K:313:LYS:HB2	2.03	0.41
23:N:325:PHE:C	31:V:182:LYS:CG	2.94	0.41
23:N:406:TYR:CD1	23:N:448:LEU:CB	3.04	0.41
24:O:356:ARG:CZ	24:O:362:GLN:HG3	2.48	0.41
25:P:135:GLU:HG3	25:P:138:ARG:HH22	1.86	0.41
26:Q:419:LEU:O	26:Q:423:VAL:HG23	2.21	0.41
27:R:207:ARG:HH12	27:R:211:LYS:HZ2	1.65	0.41
28:S:134:ILE:HG22	28:S:138:MET:HE2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:S:211:ARG:NE	28:S:240:ASP:CB	2.83	0.41
29:T:68:ALA:O	29:T:72:THR:HG23	2.21	0.41
29:T:216:GLU:HG3	29:T:220:PHE:CE1	2.23	0.41
30:U:175:LEU:HD23	31:V:205:LYS:NZ	2.36	0.41
31:V:108:TYR:C	31:V:109:HIS:CG	2.98	0.41
31:V:133:ASN:HD22	31:V:136:ALA:CB	2.32	0.41
31:V:168:LEU:HD12	31:V:182:LYS:HZ3	1.85	0.41
32:W:1:MET:N	32:W:44:ASN:ND2	2.57	0.41
32:W:143:ASN:CG	32:W:173:THR:HA	2.44	0.41
35:Z:381:LEU:O	35:Z:385:PHE:HD2	2.04	0.41
2:2:69:TYR:CE2	11:B:87:ASP:OD2	2.74	0.41
2:2:186:TYR:CZ	2:2:188:ARG:HB2	2.56	0.41
2:2:188:ARG:HG2	2:2:189:ASN:ND2	2.36	0.41
5:5:32:LYS:CD	5:5:45:MET:CE	2.97	0.41
7:7:59:LEU:HD23	7:7:62:LEU:HD12	2.01	0.41
10:A:162:TYR:CD1	20:K:428:LYS:HD2	2.56	0.41
12:C:98:TYR:CE1	12:C:106:ILE:N	2.88	0.41
14:E:123:PHE:CD1	14:E:123:PHE:C	2.98	0.41
18:I:199:GLU:HA	18:I:240:THR:CG2	2.51	0.41
18:I:262:ARG:CG	19:J:223:ILE:HG21	2.50	0.41
18:I:406:GLU:O	18:I:407:ARG:HB2	2.21	0.41
19:J:339:ARG:NH1	27:R:168:ILE:HG13	2.35	0.41
20:K:215:PRO:HA	20:K:219:LYS:HE2	2.00	0.41
21:L:111:GLU:CG	21:L:117:TYR:CE2	3.03	0.41
21:L:308:LEU:HG	21:L:312:MET:HE3	2.02	0.41
23:N:717:LEU:HD23	23:N:730:VAL:HG22	2.03	0.41
24:O:340:SER:C	25:P:358:SER:HB2	2.45	0.41
25:P:143:LEU:HG	25:P:147:LYS:HE3	2.03	0.41
25:P:360:ILE:HG12	25:P:402:PHE:HE2	1.77	0.41
26:Q:347:LEU:O	26:Q:351:ILE:HG12	2.21	0.41
28:S:211:ARG:HE	28:S:240:ASP:CG	2.29	0.41
28:S:341:SER:O	28:S:344:PRO:CG	2.62	0.41
29:T:38:ASN:O	29:T:39:LEU:HG	2.20	0.41
30:U:141:GLU:HG2	30:U:142:GLN:N	2.35	0.41
35:Z:64:TYR:CE1	35:Z:111:LEU:O	2.74	0.41
35:Z:188:ALA:HB1	35:Z:200:THR:HG22	2.02	0.41
35:Z:916:LEU:HD23	35:Z:922:PRO:HB3	2.03	0.41
35:Z:966:GLU:C	35:Z:966:GLU:CD	2.88	0.41
1:1:35:THR:C	1:1:42:TRP:HE3	2.29	0.41
1:1:64:GLU:OE1	10:A:105:ARG:HD2	2.21	0.41
2:2:104:ASP:OD1	2:2:107:GLY:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:-2:ASN:CA	3:3:19:ARG:HH12	2.33	0.41
10:A:205:PHE:CZ	10:A:209:HIS:NE2	2.88	0.41
11:B:217:GLU:OE2	11:B:234:ARG:NH2	2.54	0.41
12:C:160:TRP:CZ2	12:C:163:ILE:HD11	2.54	0.41
16:G:150:LEU:CD1	16:G:156:TYR:HB3	2.48	0.41
17:H:295:PHE:CZ	17:H:336:LEU:HD12	2.56	0.41
17:H:382:LEU:HD21	17:H:409:ARG:CZ	2.51	0.41
17:H:393:SER:HA	17:H:396:MET:HE3	2.03	0.41
18:I:255:LYS:NZ	19:J:267:GLU:OE1	2.51	0.41
19:J:37:LYS:CG	20:K:58:TYR:HE1	2.34	0.41
20:K:104:ASP:OD1	20:K:104:ASP:C	2.63	0.41
22:M:75:LEU:HD12	22:M:77:TYR:CG	2.52	0.41
22:M:162:GLU:HB2	22:M:166:ARG:HH21	1.86	0.41
22:M:379:LEU:CD1	22:M:415:PHE:CD1	3.01	0.41
23:N:158:LEU:HD13	23:N:192:LEU:HD22	2.01	0.41
23:N:497:ALA:O	23:N:501:MET:HG3	2.20	0.41
23:N:645:THR:CG2	23:N:660:LEU:HD11	2.50	0.41
23:N:771:PHE:HE2	23:N:885:ILE:HG21	1.84	0.41
24:O:25:LEU:O	24:O:29:PHE:CB	2.69	0.41
24:O:79:VAL:CG1	24:O:118:GLY:CA	2.87	0.41
24:O:124:ASP:OD1	24:O:126:ILE:N	2.54	0.41
24:O:240:GLU:O	24:O:241:THR:CB	2.69	0.41
25:P:203:ILE:HG23	25:P:220:TYR:CD1	2.53	0.41
25:P:213:TYR:CD2	25:P:217:LYS:CE	3.04	0.41
25:P:269:VAL:HA	25:P:277:GLN:HE21	1.86	0.41
27:R:255:VAL:HG11	27:R:322:LEU:HD13	2.03	0.41
27:R:316:LEU:HD22	27:R:322:LEU:HB3	2.02	0.41
29:T:197:TYR:CD1	29:T:235:PHE:HB2	2.55	0.41
30:U:92:TRP:CE2	30:U:120:LEU:CD1	2.96	0.41
31:V:83:VAL:HG11	31:V:107:TRP:HH2	1.85	0.41
32:W:21:PHE:HE1	32:W:144:PHE:CE1	2.07	0.41
33:X:22:ARG:NE	33:X:96:ARG:HH12	2.17	0.41
35:Z:176:GLU:HB3	35:Z:177:THR:HG23	2.03	0.41
35:Z:453:LEU:HD11	35:Z:899:GLN:CB	2.51	0.41
35:Z:857:LEU:CD1	35:Z:908:ILE:HG13	2.32	0.41
35:Z:970:TYR:CZ	35:Z:993:GLU:N	2.89	0.41
4:4:6:ILE:CD1	4:4:159:LEU:HD23	2.50	0.41
8:8:329:ILE:HG23	17:H:163:VAL:HG21	2.03	0.41
8:8:448:TYR:CE1	9:9:75:GLY:HA3	2.55	0.41
8:8:490:LEU:CD1	9:9:73:LEU:HD12	2.51	0.41
12:C:148:LEU:HB3	12:C:160:TRP:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:C:164:SER:HB2	12:C:169:THR:HG23	2.03	0.41
13:D:179:TYR:CZ	13:D:184:PRO:HB3	2.55	0.41
14:E:201:LEU:CD1	14:E:239:LEU:CG	2.78	0.41
18:I:100:ARG:HH21	19:J:95:ILE:CD1	2.33	0.41
18:I:197:SER:OG	18:I:219:VAL:HG11	2.20	0.41
19:J:159:GLU:O	19:J:163:VAL:HG23	2.20	0.41
20:K:96:ILE:CG1	21:L:128:ILE:HG13	2.50	0.41
20:K:100:LEU:HB2	20:K:109:ILE:HG23	2.03	0.41
21:L:382:MET:CE	21:L:416:MET:HA	2.44	0.41
22:M:162:GLU:CB	22:M:166:ARG:HE	2.32	0.41
24:O:87:LYS:HD2	24:O:135:ARG:HD3	2.03	0.41
24:O:159:LYS:C	24:O:160:LYS:HG2	2.46	0.41
25:P:132:VAL:C	25:P:171:MET:HE2	2.28	0.41
27:R:50:VAL:O	27:R:54:ILE:HG23	2.21	0.41
27:R:416:LYS:HZ3	28:S:294:ILE:HG21	1.86	0.41
31:V:265:GLU:HG2	31:V:269:ARG:HE	1.86	0.41
32:W:101:ARG:NH1	32:W:104:LYS:HA	2.36	0.41
32:W:168:THR:CG2	32:W:169:SER:HB3	2.39	0.41
35:Z:60:ASP:OD2	35:Z:63:LEU:HD12	2.21	0.41
35:Z:471:LEU:HD23	35:Z:471:LEU:O	2.20	0.41
35:Z:493:LEU:CD1	35:Z:497:PHE:HD2	2.18	0.41
35:Z:612:GLY:HA2	35:Z:616:LEU:CD1	2.50	0.41
35:Z:737:ALA:CA	35:Z:775:MET:CE	2.89	0.41
35:Z:888:LEU:N	35:Z:894:MET:SD	2.90	0.41
1:1:6:VAL:O	1:1:13:ILE:HG22	2.21	0.41
1:1:90:LYS:NZ	7:7:-7:GLN:HB3	2.35	0.41
9:9:71:LEU:HB3	9:9:72:ARG:H	1.55	0.41
12:C:39:MET:HE2	12:C:161:LYS:HB3	2.02	0.41
12:C:209:ASP:C	12:C:209:ASP:OD1	2.63	0.41
13:D:47:GLU:OE2	13:D:203:VAL:HG22	2.20	0.41
15:F:87:TYR:O	15:F:91:GLN:HG3	2.21	0.41
15:F:154:THR:HG22	15:F:156:LEU:HD11	2.01	0.41
16:G:43:ASP:OD1	16:G:43:ASP:C	2.63	0.41
16:G:140:VAL:CG2	16:G:225:GLY:HA2	2.49	0.41
16:G:146:HIS:ND1	16:G:148:TYR:OH	2.41	0.41
16:G:170:SER:HB3	16:G:201:LEU:HG	2.02	0.41
16:G:176:GLU:O	16:G:179:VAL:HG12	2.21	0.41
17:H:175:GLY:N	17:H:183:ILE:HB	2.36	0.41
17:H:208:TYR:H	17:H:262:ALA:CB	2.33	0.41
17:H:249:TYR:C	17:H:256:LYS:HZ1	2.29	0.41
19:J:252:SER:CA	19:J:258:VAL:HG22	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J:266:SER:O	19:J:270:ARG:HG3	2.21	0.41
20:K:280:LYS:HG2	20:K:325:ASP:OD2	2.20	0.41
21:L:221:TYR:HH	21:L:348:GLU:HB3	1.75	0.41
22:M:75:LEU:HD21	22:M:77:TYR:CE1	2.50	0.41
23:N:447:SER:O	23:N:450:ILE:HG22	2.21	0.41
24:O:8:ASP:OD1	24:O:41:LEU:HD23	2.21	0.41
24:O:47:LYS:CE	24:O:65:PHE:HE2	2.31	0.41
24:O:87:LYS:HD3	24:O:135:ARG:HD2	2.02	0.41
24:O:362:GLN:NE2	30:U:223:HIS:N	2.69	0.41
25:P:234:TYR:O	25:P:267:PHE:HE2	2.04	0.41
25:P:281:ILE:CG1	25:P:300:VAL:HG21	2.43	0.41
25:P:311:TRP:CH2	25:P:338:TRP:CD1	3.08	0.41
25:P:345:VAL:HG13	25:P:346:ILE:N	2.36	0.41
25:P:435:LYS:NZ	30:U:153:THR:HA	2.36	0.41
26:Q:317:ALA:O	26:Q:321:TYR:HB2	2.21	0.41
26:Q:326:MET:CE	26:Q:332:ARG:CD	2.99	0.41
27:R:51:LEU:O	27:R:55:LYS:HG2	2.21	0.41
27:R:79:LEU:HB2	27:R:93:LYS:CE	2.51	0.41
27:R:304:TYR:CE1	27:R:337:VAL:HG11	2.55	0.41
27:R:416:LYS:C	28:S:298:ARG:HH11	2.29	0.41
28:S:185:PHE:CD1	28:S:239:ARG:NE	2.89	0.41
28:S:230:LYS:HZ1	28:S:256:LYS:HE2	1.86	0.41
28:S:457:PRO:HG3	30:U:274:MET:HE2	2.02	0.41
29:T:72:THR:O	29:T:73:PHE:HB2	2.21	0.41
31:V:93:ASP:O	31:V:97:GLN:HG3	2.21	0.41
33:X:24:CYS:CB	33:X:79:LYS:O	2.69	0.41
35:Z:237:VAL:HB	35:Z:275:GLN:OE1	2.20	0.41
35:Z:396:ASN:OD1	35:Z:396:ASN:O	2.38	0.41
35:Z:439:TYR:O	35:Z:447:VAL:HG12	2.21	0.41
35:Z:490:ILE:HD11	35:Z:523:ALA:HA	2.02	0.41
1:1:8:PHE:CE2	1:1:10:ASP:N	2.88	0.41
5:5:120:THR:CG2	5:5:122:LEU:HG	2.49	0.41
6:6:-2:ASN:ND2	6:6:48:PHE:CD1	2.89	0.41
17:H:271:PHE:HE1	17:H:273:ARG:CB	2.20	0.41
17:H:389:PHE:CB	17:H:404:TRP:CZ3	2.80	0.41
18:I:215:PRO:HA	18:I:216:PRO:HD3	1.94	0.41
18:I:362:LEU:CD2	18:I:377:LEU:CD2	2.96	0.41
18:I:377:LEU:O	18:I:381:VAL:HG23	2.21	0.41
19:J:115:LEU:CD2	19:J:116:ARG:O	2.66	0.41
19:J:362:CYS:HA	19:J:382:PHE:HE1	1.85	0.41
21:L:298:ASP:HA	21:L:301:ILE:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:N:28:ILE:CG2	23:N:64:ILE:HD13	2.51	0.41
24:O:62:TYR:CE2	24:O:66:VAL:CG2	3.04	0.41
25:P:218:LEU:O	25:P:221:TYR:HB2	2.21	0.41
26:Q:186:HIS:HE1	26:Q:228:GLU:HG3	1.85	0.41
29:T:132:HIS:O	29:T:136:LEU:HG	2.21	0.41
30:U:107:ASN:O	30:U:111:LYS:HG3	2.20	0.41
35:Z:382:ALA:O	35:Z:386:VAL:HG23	2.20	0.41
35:Z:741:LEU:HD22	35:Z:782:ILE:HD12	2.02	0.41
1:1:72:THR:O	1:1:72:THR:HG23	2.21	0.40
7:7:28:PHE:HB3	7:7:31:VAL:HG23	2.04	0.40
7:7:51:ASP:OD2	7:7:103:TRP:HB3	2.20	0.40
7:7:121:TYR:CD1	7:7:129:TYR:CE1	3.08	0.40
10:A:70:SER:O	10:A:71:TYR:CG	2.74	0.40
10:A:135:ARG:CZ	16:G:124:LEU:HD23	2.51	0.40
10:A:157:THR:HG22	10:A:163:TYR:HB2	2.02	0.40
12:C:111:LEU:O	12:C:115:LEU:HG	2.22	0.40
13:D:176:GLU:CG	14:E:58:LEU:CD1	3.00	0.40
15:F:201:LEU:O	15:F:202:ARG:CG	2.69	0.40
18:I:361:ILE:O	18:I:365:HIS:HD2	2.04	0.40
19:J:286:LYS:HZ1	19:J:289:LYS:HG2	1.85	0.40
20:K:280:LYS:NZ	20:K:293:GLN:HG2	2.36	0.40
21:L:249:SER:O	21:L:252:VAL:HB	2.21	0.40
21:L:336:ALA:CB	21:L:339:ARG:HH21	2.34	0.40
21:L:357:ARG:NE	21:L:380:VAL:HG13	2.32	0.40
22:M:257:GLY:CA	22:M:258:GLU:N	2.72	0.40
23:N:463:TYR:CE2	23:N:485:MET:SD	3.14	0.40
23:N:638:ILE:HD12	23:N:664:LEU:HD11	2.03	0.40
24:O:356:ARG:HE	24:O:362:GLN:HG3	1.85	0.40
24:O:359:SER:O	24:O:363:ILE:CD1	2.69	0.40
26:Q:135:HIS:CD2	26:Q:164:GLU:HG3	2.56	0.40
27:R:169:ASP:O	27:R:173:THR:HG23	2.21	0.40
30:U:94:HIS:HD1	30:U:96:GLY:N	2.18	0.40
32:W:139:VAL:HG13	32:W:169:SER:HA	2.01	0.40
2:2:149:GLU:HG2	2:2:153:LYS:HE3	2.03	0.40
5:5:114:TYR:CE1	5:5:129:VAL:HG11	2.51	0.40
6:6:77:ILE:HG23	6:6:78:ASN:N	2.35	0.40
21:L:70:TYR:CD2	22:M:45:ARG:HG3	2.56	0.40
21:L:140:LEU:HD23	21:L:158:ILE:HG12	2.03	0.40
22:M:167:VAL:HG23	22:M:167:VAL:O	2.21	0.40
22:M:257:GLY:O	22:M:260:ALA:CB	2.68	0.40
23:N:782:PHE:CE1	23:N:875:LEU:CD2	3.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:O:287:LEU:HD23	24:O:287:LEU:O	2.21	0.40
24:O:294:MET:SD	24:O:357:ILE:CG2	3.10	0.40
25:P:425:HIS:HD2	30:U:225:ILE:HG12	1.81	0.40
26:Q:138:SER:HB2	26:Q:161:LEU:CD1	2.50	0.40
27:R:376:GLN:O	27:R:377:LEU:HB2	2.21	0.40
27:R:422:ARG:NH2	28:S:299:LYS:HB3	2.36	0.40
35:Z:963:ALA:O	35:Z:964:GLU:HG3	2.21	0.40
2:2:104:ASP:OD1	2:2:106:THR:N	2.54	0.40
8:8:114:MSE:HE1	8:8:180:LEU:HA	2.03	0.40
13:D:30:GLY:HA2	18:I:436:TYR:CD2	2.56	0.40
15:F:91:GLN:CD	15:F:115:LYS:NZ	2.80	0.40
16:G:46:VAL:CG1	16:G:215:ILE:HD11	2.51	0.40
19:J:218:LEU:HG	19:J:230:VAL:HG22	2.04	0.40
19:J:220:GLN:HG3	19:J:229:MET:HE2	2.03	0.40
20:K:396:ARG:HH11	21:L:215:PRO:HG3	1.86	0.40
21:L:104:LEU:HD12	22:M:127:VAL:HA	2.03	0.40
23:N:19:SER:HB3	29:T:35:ILE:CG1	2.52	0.40
23:N:235:ALA:O	23:N:238:ALA:HB3	2.21	0.40
23:N:301:THR:OG1	23:N:920:VAL:HG13	2.21	0.40
23:N:399:PHE:CE1	23:N:441:VAL:HB	2.50	0.40
23:N:490:LEU:CD1	23:N:731:VAL:HG21	2.51	0.40
25:P:177:ILE:CD1	25:P:216:LEU:HD22	2.52	0.40
25:P:202:LYS:HE2	25:P:206:LYS:CE	2.52	0.40
25:P:270:LEU:HD22	25:P:340:ASP:CB	2.41	0.40
25:P:293:LEU:C	25:P:293:LEU:CD2	2.95	0.40
26:Q:31:LEU:CD2	26:Q:50:ARG:NH2	2.84	0.40
26:Q:135:HIS:HB3	26:Q:161:LEU:CD2	2.36	0.40
27:R:258:LEU:CD1	27:R:266:LEU:CD1	2.98	0.40
27:R:285:ALA:HB3	27:R:314:ASN:HD22	1.86	0.40
28:S:315:LYS:CG	28:S:345:TYR:OH	2.64	0.40
29:T:144:TYR:HD2	29:T:169:GLN:HE21	1.69	0.40
29:T:216:GLU:HG2	29:T:220:PHE:CD1	2.53	0.40
32:W:7:VAL:C	32:W:110:ILE:HD12	2.46	0.40
32:W:88:ALA:H	32:W:120:ASP:CG	2.29	0.40
35:Z:227:ILE:O	35:Z:227:ILE:HG22	2.21	0.40
35:Z:970:TYR:CZ	35:Z:993:GLU:CA	3.05	0.40
3:3:60:TYR:CD1	12:C:96:GLN:CG	3.05	0.40
5:5:150:VAL:CG2	5:5:179:HIS:ND1	2.84	0.40
6:6:3:ILE:HG13	6:6:101:ILE:HD12	2.03	0.40
6:6:20:ASN:HB3	6:6:28:SER:HB3	2.04	0.40
7:7:90:THR:O	7:7:94:GLN:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:9:55:THR:O	9:9:58:ASP:HB2	2.21	0.40
11:B:12:PHE:CZ	12:C:129:ARG:NH2	2.79	0.40
11:B:178:ARG:HD3	11:B:191:ILE:HG23	2.04	0.40
13:D:11:PHE:HA	13:D:17:ILE:HD13	2.02	0.40
16:G:140:VAL:HB	16:G:220:LEU:CD2	2.50	0.40
17:H:340:LEU:CD1	17:H:370:ARG:HD2	2.51	0.40
18:I:380:LEU:HD23	18:I:420:LYS:HZ3	1.86	0.40
21:L:114:GLU:HA	21:L:117:TYR:OH	2.22	0.40
22:M:186:LEU:HD13	22:M:231:LEU:HG	2.03	0.40
22:M:361:LEU:O	22:M:376:TRP:CE2	2.74	0.40
25:P:259:PRO:O	25:P:263:HIS:ND1	2.23	0.40
25:P:265:VAL:HA	25:P:280:LEU:HD23	2.03	0.40
25:P:342:GLN:O	25:P:346:ILE:HG13	2.21	0.40
25:P:346:ILE:HG21	25:P:379:TYR:CD2	2.57	0.40
26:Q:51:ARG:O	26:Q:54:GLN:HB3	2.22	0.40
26:Q:220:LEU:O	26:Q:224:ILE:HG13	2.21	0.40
27:R:71:LEU:HA	27:R:76:GLN:HB2	2.04	0.40
28:S:425:ARG:HG3	28:S:429:ASP:OD2	2.21	0.40
29:T:190:ALA:HB1	29:T:224:ARG:CD	2.51	0.40
29:T:193:THR:HG22	29:T:235:PHE:CE2	2.56	0.40
30:U:226:LEU:HD23	30:U:226:LEU:O	2.20	0.40
30:U:273:LEU:CG	30:U:277:TYR:CZ	3.03	0.40
31:V:109:HIS:H	31:V:140:VAL:HG22	1.87	0.40
35:Z:357:ILE:O	35:Z:361:HIS:HB2	2.21	0.40
35:Z:551:LEU:HD11	35:Z:591:ILE:HG23	1.98	0.40
1:1:19:ARG:CZ	1:1:29:ARG:HA	2.49	0.40
1:1:60:GLN:O	1:1:64:GLU:HG3	2.22	0.40
1:1:112:THR:CG2	7:7:27:ARG:NH2	2.84	0.40
2:2:75:ARG:NH2	10:A:110:TYR:HB3	2.37	0.40
2:2:109:HIS:CB	2:2:111:PHE:HE2	2.12	0.40
5:5:8:PHE:CE1	5:5:13:ILE:CD1	3.05	0.40
10:A:30:TYR:O	16:G:14:PHE:HE2	2.04	0.40
10:A:65:ASP:OD1	10:A:65:ASP:C	2.64	0.40
11:B:3:ASP:OD1	11:B:3:ASP:C	2.62	0.40
12:C:33:GLY:HA3	12:C:65:LYS:HZ3	1.82	0.40
15:F:16:THR:OG1	15:F:18:ARG:O	2.40	0.40
17:H:49:LEU:C	17:H:49:LEU:CD1	2.93	0.40
18:I:404:LEU:HD21	19:J:166:LEU:HD13	2.03	0.40
19:J:126:LEU:HD21	20:K:103:ILE:CD1	2.52	0.40
20:K:404:GLN:O	20:K:408:GLU:HG3	2.22	0.40
21:L:201:LEU:HG	21:L:322:LYS:HE2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:M:221:TYR:CE1	22:M:346:LYS:HG3	2.53	0.40
22:M:306:LEU:HG	22:M:310:ASN:HD21	1.86	0.40
23:N:21:LYS:HE3	23:N:55:PHE:CD2	2.57	0.40
24:O:30:GLU:CD	24:O:40:GLN:OE1	2.57	0.40
24:O:134:ALA:CB	24:O:153:LEU:HD21	2.51	0.40
24:O:147:ARG:NH2	24:O:178:TYR:OH	2.53	0.40
24:O:178:TYR:CZ	24:O:182:LYS:HD2	2.57	0.40
24:O:298:GLU:O	24:O:365:LYS:NZ	2.50	0.40
25:P:55:SER:OG	25:P:57:GLU:HB3	2.22	0.40
25:P:204:LEU:HD13	25:P:220:TYR:HE2	1.86	0.40
25:P:299:LEU:HA	25:P:302:LEU:HD12	2.02	0.40
25:P:369:LEU:C	25:P:371:LEU:HG	2.45	0.40
29:T:35:ILE:HG23	29:T:36:LYS:N	2.36	0.40
30:U:38:LEU:CG	30:U:87:GLU:HG2	2.51	0.40
30:U:92:TRP:NE1	30:U:120:LEU:CB	2.84	0.40
31:V:78:VAL:HG12	31:V:78:VAL:O	2.21	0.40
33:X:66:LEU:HD13	33:X:99:PHE:HE1	1.74	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	1	203/215 (94%)	189 (93%)	13 (6%)	1 (0%)	24 63
2	2	221/261 (85%)	207 (94%)	10 (4%)	4 (2%)	6 34
3	3	202/205 (98%)	188 (93%)	12 (6%)	2 (1%)	12 49
4	4	196/198 (99%)	181 (92%)	13 (7%)	2 (1%)	12 49
5	5	210/287 (73%)	194 (92%)	11 (5%)	5 (2%)	4 27
6	6	220/241 (91%)	206 (94%)	11 (5%)	3 (1%)	9 40
7	7	231/266 (87%)	208 (90%)	16 (7%)	7 (3%)	3 23

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
8	8	368/416 (88%)	364 (99%)	4 (1%)	0	100	100
9	9	74/76 (97%)	71 (96%)	3 (4%)	0	100	100
10	A	241/252 (96%)	217 (90%)	20 (8%)	4 (2%)	7	36
11	B	248/250 (99%)	227 (92%)	15 (6%)	6 (2%)	4	27
12	C	243/258 (94%)	224 (92%)	16 (7%)	3 (1%)	10	44
13	D	240/254 (94%)	221 (92%)	16 (7%)	3 (1%)	9	42
14	E	241/260 (93%)	225 (93%)	13 (5%)	3 (1%)	10	44
15	F	231/234 (99%)	209 (90%)	19 (8%)	3 (1%)	9	42
16	G	243/288 (84%)	224 (92%)	16 (7%)	3 (1%)	10	44
17	H	353/467 (76%)	298 (84%)	36 (10%)	19 (5%)	1	15
18	I	358/437 (82%)	326 (91%)	25 (7%)	7 (2%)	6	31
19	J	367/405 (91%)	337 (92%)	21 (6%)	9 (2%)	4	26
20	K	377/428 (88%)	336 (89%)	29 (8%)	12 (3%)	3	21
21	L	357/437 (82%)	326 (91%)	18 (5%)	13 (4%)	2	20
22	M	363/434 (84%)	322 (89%)	29 (8%)	12 (3%)	3	21
23	N	843/945 (89%)	786 (93%)	37 (4%)	20 (2%)	4	27
24	O	385/393 (98%)	309 (80%)	44 (11%)	32 (8%)	0	9
25	P	413/445 (93%)	374 (91%)	22 (5%)	17 (4%)	2	18
26	Q	429/434 (99%)	390 (91%)	28 (6%)	11 (3%)	4	25
27	R	398/429 (93%)	345 (87%)	36 (9%)	17 (4%)	2	17
28	S	351/523 (67%)	308 (88%)	31 (9%)	12 (3%)	3	21
29	T	270/274 (98%)	235 (87%)	16 (6%)	19 (7%)	1	11
30	U	245/338 (72%)	226 (92%)	9 (4%)	10 (4%)	2	18
31	V	239/306 (78%)	212 (89%)	18 (8%)	9 (4%)	2	19
32	W	193/268 (72%)	156 (81%)	17 (9%)	20 (10%)	0	6
33	X	125/156 (80%)	101 (81%)	19 (15%)	5 (4%)	2	18
34	Y	17/89 (19%)	17 (100%)	0	0	100	100
35	Z	807/993 (81%)	690 (86%)	68 (8%)	49 (6%)	1	13
All	All	10502/12162 (86%)	9449 (90%)	711 (7%)	342 (3%)	5	21

All (342) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	4	150	ASP
11	B	203	GLU
13	D	31	THR
13	D	204	GLN
17	H	183	ILE
17	H	185	LEU
17	H	188	PRO
17	H	303	ALA
18	I	125	MET
18	I	430	GLU
19	J	151	GLY
19	J	249	GLU
19	J	310	ILE
20	K	281	ARG
20	K	283	ASP
20	K	366	ALA
21	L	81	ILE
21	L	134	SER
21	L	170	MET
21	L	282	GLU
21	L	297	ALA
22	M	252	VAL
22	M	258	GLU
22	M	433	TYR
23	N	16	ASN
23	N	53	ASP
23	N	415	PHE
23	N	915	ALA
24	O	20	PRO
24	O	43	GLU
24	O	73	ILE
24	O	82	LEU
24	O	103	LYS
24	O	107	GLN
24	O	243	VAL
24	O	277	ILE
24	O	304	ASN
24	O	338	LYS
24	O	340	SER
24	O	345	ASN
24	O	358	ILE
25	P	232	ARG
26	Q	149	LYS

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Mol	Chain	Res	Type
26	Q	402	THR
26	Q	404	ASN
27	R	203	ASP
27	R	240	SER
28	S	328	PRO
29	T	5	ALA
29	T	156	SER
29	T	239	SER
29	T	245	TYR
29	T	251	HIS
30	U	7	LYS
30	U	86	LYS
30	U	87	GLU
30	U	113	TYR
30	U	161	ILE
31	V	45	VAL
31	V	48	GLU
31	V	61	TYR
31	V	117	TRP
31	V	135	ARG
32	W	11	ASP
32	W	12	ASN
32	W	18	ASN
32	W	59	PRO
32	W	147	ILE
32	W	179	ARG
32	W	183	GLU
32	W	192	LEU
33	X	29	VAL
33	X	41	GLU
35	Z	82	MET
35	Z	127	SER
35	Z	134	SER
35	Z	187	SER
35	Z	189	ALA
35	Z	193	PHE
35	Z	277	GLU
35	Z	318	LYS
35	Z	337	GLU
35	Z	353	VAL
35	Z	430	LEU
35	Z	553	ARG

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Mol	Chain	Res	Type
35	Z	558	LEU
35	Z	787	ASP
35	Z	825	ALA
35	Z	955	VAL
35	Z	966	GLU
2	2	31	CYS
5	5	19	ARG
5	5	46	ALA
5	5	208	ASN
7	7	77	GLU
7	7	152	ASP
10	A	160	ALA
11	B	181	ASP
13	D	7	ALA
14	E	249	ALA
15	F	11	VAL
15	F	103	LEU
17	H	179	SER
17	H	323	ALA
19	J	354	SER
19	J	395	GLU
20	K	422	ASP
21	L	290	ARG
23	N	50	TYR
23	N	128	ILE
23	N	249	ASN
23	N	324	LYS
23	N	394	ARG
23	N	395	ALA
23	N	745	LEU
24	O	18	ALA
24	O	58	ARG
24	O	120	LYS
24	O	346	GLU
25	P	47	ARG
25	P	133	GLU
25	P	231	LYS
25	P	283	LYS
25	P	289	ASN
25	P	321	VAL
25	P	328	ALA
26	Q	38	SER

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Mol	Chain	Res	Type
26	Q	128	GLU
26	Q	131	VAL
26	Q	189	ARG
26	Q	387	TYR
26	Q	403	PRO
27	R	162	ILE
27	R	197	MET
27	R	244	THR
27	R	290	SER
27	R	421	VAL
28	S	193	THR
29	T	117	ASN
29	T	197	TYR
29	T	198	ASP
29	T	225	ASN
29	T	243	ALA
29	T	248	GLU
29	T	250	MET
30	U	141	GLU
30	U	159	CYS
31	V	134	SER
32	W	21	PHE
32	W	54	GLY
32	W	114	VAL
32	W	153	LEU
32	W	191	ILE
33	X	72	GLU
35	Z	110	ASN
35	Z	185	ASP
35	Z	188	ALA
35	Z	320	SER
35	Z	482	ASP
35	Z	769	ASN
35	Z	990	ARG
1	1	19	ARG
2	2	193	PRO
2	2	196	ARG
5	5	148	LEU
6	6	10	ASP
7	7	2	SER
7	7	74	ASP
7	7	75	ALA

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Mol	Chain	Res	Type
10	A	150	LEU
11	B	40	THR
11	B	215	GLY
12	C	52	VAL
14	E	54	ALA
14	E	73	HIS
16	G	208	GLU
17	H	97	LEU
17	H	172	MET
17	H	310	GLU
17	H	343	PHE
18	I	164	ALA
18	I	320	GLY
19	J	131	ASP
19	J	194	GLY
20	K	153	ASP
20	K	288	SER
20	K	377	SER
21	L	319	GLY
22	M	162	GLU
22	M	336	ALA
22	M	424	ALA
22	M	429	SER
23	N	529	GLN
23	N	614	ASN
23	N	863	SER
24	O	56	PRO
24	O	183	ASN
24	O	228	TYR
24	O	248	TYR
25	P	168	TYR
25	P	319	GLU
26	Q	109	ASP
27	R	37	LYS
27	R	76	GLN
27	R	124	ASP
27	R	326	ALA
27	R	377	LEU
28	S	172	ASN
28	S	177	ASN
28	S	195	ALA
28	S	225	HIS

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Mol	Chain	Res	Type
28	S	299	LYS
29	T	40	LEU
29	T	91	SER
29	T	92	ASN
29	T	237	ASN
31	V	59	ASP
31	V	73	GLN
32	W	101	ARG
32	W	136	ASN
32	W	143	ASN
32	W	164	PRO
33	X	28	PRO
35	Z	186	GLY
35	Z	230	ILE
35	Z	333	GLY
35	Z	352	LYS
35	Z	396	ASN
35	Z	523	ALA
35	Z	895	LEU
3	3	-5	SER
6	6	157	GLY
7	7	221	GLY
10	A	231	ASP
11	B	2	THR
16	G	222	GLU
17	H	166	THR
17	H	168	ILE
17	H	318	ARG
17	H	358	PRO
18	I	166	PRO
20	K	341	PRO
21	L	164	ASP
21	L	289	ARG
21	L	385	GLY
23	N	283	ASP
23	N	458	ALA
23	N	670	LYS
24	O	36	LYS
24	O	204	SER
24	O	353	VAL
25	P	87	GLY
25	P	322	LEU

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Mol	Chain	Res	Type
26	Q	354	PHE
27	R	83	GLU
27	R	241	ILE
27	R	262	GLU
28	S	144	LEU
28	S	192	GLU
28	S	375	ASP
29	T	90	PHE
30	U	230	GLN
35	Z	133	ASP
35	Z	215	ASN
35	Z	259	PRO
35	Z	964	GLU
2	2	201	LYS
3	3	107	SER
10	A	168	ALA
11	B	233	PRO
16	G	185	GLY
17	H	104	LYS
18	I	117	HIS
19	J	126	LEU
20	K	286	THR
20	K	397	LYS
21	L	284	ASP
22	M	431	SER
23	N	786	ARG
24	O	114	GLN
24	O	239	MET
25	P	89	LEU
25	P	172	GLU
25	P	306	ASN
28	S	198	SER
29	T	172	SER
29	T	242	LYS
30	U	162	GLU
31	V	247	ILE
32	W	142	ILE
35	Z	143	VAL
35	Z	556	ILE
35	Z	975	SER
4	4	194	PHE
12	C	3	SER

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Mol	Chain	Res	Type
15	F	202	ARG
17	H	187	LEU
17	H	378	SER
18	I	116	ASP
20	K	278	ALA
22	M	143	ASN
22	M	175	LYS
22	M	226	THR
23	N	771	PHE
24	O	230	PHE
24	O	272	VAL
25	P	290	LEU
27	R	74	ASN
27	R	393	PRO
32	W	196	SER
33	X	24	CYS
35	Z	109	PRO
35	Z	328	ASP
35	Z	351	PRO
35	Z	578	GLY
5	5	173	GLY
17	H	211	VAL
21	L	350	PRO
24	O	355	PRO
25	P	124	VAL
35	Z	87	LYS
35	Z	326	VAL
7	7	70	ASN
12	C	225	VAL
30	U	125	VAL
35	Z	373	GLY
19	J	299	ILE
20	K	215	PRO
22	M	83	VAL
24	O	237	PRO
24	O	278	PRO
24	O	360	GLY
28	S	165	PRO
35	Z	192	GLY
17	H	105	ILE
21	L	287	GLY
23	N	353	LEU

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Mol	Chain	Res	Type
35	Z	481	PRO
35	Z	925	VAL
6	6	154	GLY
32	W	176	PRO
35	Z	519	PRO

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	1	169/178 (95%)	169 (100%)	0	100	100
2	2	182/214 (85%)	182 (100%)	0	100	100
3	3	172/173 (99%)	172 (100%)	0	100	100
4	4	175/175 (100%)	175 (100%)	0	100	100
5	5	169/235 (72%)	168 (99%)	1 (1%)	78	83
6	6	185/201 (92%)	185 (100%)	0	100	100
7	7	199/224 (89%)	199 (100%)	0	100	100
8	8	331/369 (90%)	325 (98%)	6 (2%)	51	68
9	9	68/68 (100%)	65 (96%)	3 (4%)	25	47
10	A	207/210 (99%)	207 (100%)	0	100	100
11	B	209/209 (100%)	209 (100%)	0	100	100
12	C	204/216 (94%)	204 (100%)	0	100	100
13	D	214/226 (95%)	214 (100%)	0	100	100
14	E	199/215 (93%)	199 (100%)	0	100	100
15	F	192/193 (100%)	192 (100%)	0	100	100
16	G	201/239 (84%)	201 (100%)	0	100	100
17	H	303/399 (76%)	302 (100%)	1 (0%)	86	86
18	I	319/385 (83%)	318 (100%)	1 (0%)	86	86
19	J	325/352 (92%)	324 (100%)	1 (0%)	86	86
20	K	334/374 (89%)	333 (100%)	1 (0%)	86	86

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
21	L	308/377 (82%)	308 (100%)	0	100	100
22	M	315/375 (84%)	315 (100%)	0	100	100
23	N	713/797 (90%)	710 (100%)	3 (0%)	84	84
24	O	363/368 (99%)	362 (100%)	1 (0%)	86	86
25	P	388/415 (94%)	380 (98%)	8 (2%)	47	65
26	Q	388/391 (99%)	388 (100%)	0	100	100
27	R	351/379 (93%)	351 (100%)	0	100	100
28	S	330/489 (68%)	330 (100%)	0	100	100
29	T	254/256 (99%)	254 (100%)	0	100	100
30	U	234/308 (76%)	229 (98%)	5 (2%)	47	65
31	V	217/268 (81%)	214 (99%)	3 (1%)	59	72
32	W	171/230 (74%)	169 (99%)	2 (1%)	63	75
33	X	116/144 (81%)	115 (99%)	1 (1%)	70	79
34	Y	18/81 (22%)	18 (100%)	0	100	100
35	Z	692/850 (81%)	692 (100%)	0	100	100
All	All	9215/10583 (87%)	9178 (100%)	37 (0%)	81	84

All (37) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
5	5	104	TYR
8	8	180	LEU
8	8	260	LYS
8	8	324	ASN
8	8	369	GLU
8	8	422	LYS
8	8	456	LEU
9	9	18	GLU
9	9	40	GLN
9	9	71	LEU
17	H	282	LYS
18	I	257	LEU
19	J	221	LYS
20	K	288	SER
23	N	780	ASP
23	N	866	TYR
23	N	905	LEU

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Mol	Chain	Res	Type
24	O	20	PRO
25	P	31	ASP
25	P	33	ASN
25	P	43	GLU
25	P	57	GLU
25	P	58	VAL
25	P	69	ARG
25	P	85	LYS
25	P	88	GLN
30	U	71	ASN
30	U	74	GLU
30	U	75	ASN
30	U	77	ASN
30	U	154	PHE
31	V	68	VAL
31	V	85	ASP
31	V	109	HIS
32	W	8	LEU
32	W	191	ILE
33	X	48	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (221) such sidechains are listed below:

Mol	Chain	Res	Type
1	1	38	HIS
1	1	89	ASN
1	1	157	HIS
1	1	161	GLN
2	2	35	HIS
2	2	66	HIS
2	2	85	GLN
2	2	86	HIS
2	2	114	HIS
2	2	116	HIS
2	2	141	HIS
2	2	189	ASN
3	3	63	ASN
4	4	36	GLN
4	4	60	GLN
4	4	64	GLN
4	4	98	GLN
4	4	117	GLN

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Mol	Chain	Res	Type
4	4	132	HIS
4	4	145	HIS
4	4	146	HIS
5	5	179	HIS
6	6	-2	ASN
6	6	27	ASN
6	6	46	ASN
6	6	67	HIS
6	6	70	HIS
6	6	85	GLN
7	7	53	GLN
7	7	70	ASN
7	7	144	ASN
7	7	186	ASN
7	7	195	ASN
7	7	205	GLN
8	8	338	GLN
8	8	415	HIS
8	8	431	ASN
9	9	25	ASN
9	9	31	GLN
9	9	60	ASN
10	A	37	GLN
10	A	39	ASN
10	A	56	GLN
10	A	126	GLN
10	A	130	GLN
10	A	193	HIS
11	B	20	GLN
11	B	119	GLN
11	B	123	GLN
12	C	59	GLN
12	C	147	GLN
13	D	70	HIS
13	D	96	HIS
13	D	149	GLN
13	D	162	GLN
13	D	204	GLN
13	D	241	GLN
14	E	108	ASN
14	E	114	GLN
14	E	157	HIS

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Mol	Chain	Res	Type
15	F	31	GLN
15	F	69	HIS
15	F	91	GLN
15	F	117	GLN
15	F	143	HIS
15	F	199	GLN
16	G	42	ASN
16	G	67	GLN
16	G	120	GLN
16	G	122	HIS
16	G	182	HIS
16	G	227	HIS
16	G	247	ASN
17	H	95	HIS
17	H	265	ASN
17	H	339	GLN
17	H	413	ASN
18	I	102	ASN
18	I	312	GLN
18	I	365	HIS
19	J	111	GLN
19	J	181	GLN
19	J	204	HIS
19	J	205	HIS
19	J	277	ASN
19	J	287	ASN
19	J	295	ASN
19	J	336	ASN
19	J	342	ASN
19	J	376	HIS
20	K	90	GLN
20	K	144	ASN
20	K	180	GLN
20	K	264	ASN
20	K	293	GLN
20	K	302	GLN
20	K	419	ASN
21	L	67	HIS
21	L	73	GLN
21	L	79	GLN
21	L	80	ASN
21	L	311	GLN

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Mol	Chain	Res	Type
21	L	320	GLN
21	L	328	ASN
22	M	55	ASN
22	M	253	GLN
22	M	302	GLN
22	M	311	GLN
22	M	328	ASN
22	M	364	HIS
22	M	390	GLN
23	N	71	ASN
23	N	96	GLN
23	N	116	GLN
23	N	176	GLN
23	N	182	ASN
23	N	280	GLN
23	N	300	ASN
23	N	306	ASN
23	N	329	HIS
23	N	360	GLN
23	N	361	ASN
23	N	375	HIS
23	N	459	ASN
23	N	525	ASN
23	N	667	GLN
23	N	707	ASN
23	N	738	GLN
23	N	747	HIS
24	O	4	ASN
24	O	5	HIS
24	O	28	GLN
24	O	40	GLN
24	O	116	ASN
24	O	117	ASN
24	O	141	ASN
24	O	169	ASN
24	O	186	ASN
24	O	211	GLN
24	O	323	ASN
24	O	326	HIS
24	O	343	GLN
24	O	345	ASN
24	O	362	GLN

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Mol	Chain	Res	Type
24	O	376	GLN
25	P	76	ASN
25	P	164	GLN
25	P	285	GLN
25	P	306	ASN
25	P	315	GLN
25	P	342	GLN
25	P	401	ASN
25	P	425	HIS
25	P	431	HIS
26	Q	54	GLN
26	Q	114	GLN
26	Q	226	HIS
26	Q	247	HIS
26	Q	252	HIS
26	Q	253	ASN
27	R	81	HIS
27	R	89	ASN
27	R	114	ASN
27	R	132	GLN
27	R	143	GLN
27	R	182	ASN
27	R	208	ASN
27	R	314	ASN
27	R	391	ASN
28	S	143	GLN
28	S	202	ASN
28	S	302	HIS
29	T	47	GLN
29	T	80	ASN
29	T	93	ASN
29	T	94	HIS
29	T	192	ASN
29	T	225	ASN
29	T	236	ASN
29	T	272	ASN
30	U	21	HIS
30	U	107	ASN
30	U	117	ASN
30	U	128	GLN
30	U	173	HIS
30	U	201	GLN

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Mol	Chain	Res	Type
30	U	234	ASN
30	U	259	ASN
30	U	270	ASN
30	U	280	ASN
31	V	64	ASN
31	V	73	GLN
31	V	109	HIS
31	V	133	ASN
31	V	145	GLN
31	V	186	GLN
31	V	204	HIS
31	V	291	ASN
32	W	44	ASN
32	W	58	ASN
32	W	103	ASN
32	W	136	ASN
32	W	143	ASN
32	W	162	ASN
32	W	163	ASN
33	X	38	ASN
33	X	105	ASN
35	Z	168	GLN
35	Z	309	GLN
35	Z	361	HIS
35	Z	391	ASN
35	Z	429	ASN
35	Z	435	GLN
35	Z	532	HIS
35	Z	771	HIS
35	Z	824	ASN
35	Z	856	HIS
35	Z	899	GLN
35	Z	931	GLN
35	Z	959	HIS
35	Z	976	HIS

5.3.3 RNA

There are no RNA molecules in this entry.

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

1 non-standard protein/DNA/RNA residue is modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
9	GLZ	9	76	-	3,3,3	2.42	1 (33%)	1,2,2	0.52	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
9	GLZ	9	76	-	-	0/0/1/1	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	9	76	GLZ	O-C	4.12	1.43	1.20

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 18 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
9	9	76	GLZ	18	0

5.5 Carbohydrates (i)

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

The following chains have linkage breaks:

Mol	Chain	Number of breaks
32	W	3
19	J	2
20	K	2
21	L	2
22	M	2
31	V	2
18	I	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	J	218:LEU	C	219:VAL	N	3.99
1	K	248:GLY	C	249:GLU	N	3.09
1	L	251:ILE	C	252:VAL	N	2.52
1	I	252:LEU	C	253:ILE	N	2.13
1	J	224:GLY	C	225:GLU	N	2.03
1	W	120:ASP	C	121:SER	N	2.02
1	K	242:PHE	C	243:VAL	N	1.83
1	M	257:GLY	C	258:GLU	N	1.81
1	V	99:GLY	C	100:ARG	N	1.65
1	L	257:GLY	C	258:GLU	N	1.64
1	V	282:GLU	C	283:THR	N	1.62
1	M	58:MET	C	59:LEU	N	1.16
1	W	154:LEU	C	155:ASP	N	1.05
1	W	38:GLN	C	39:ALA	N	0.46

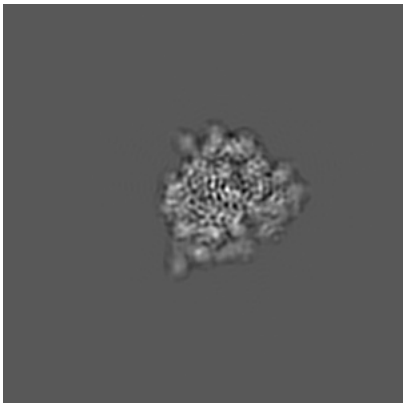
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-3034. These allow visual inspection of the internal detail of the map and identification of artifacts.

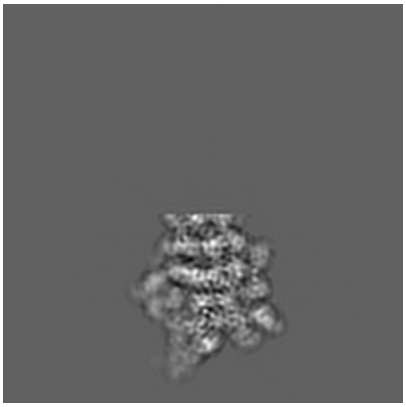
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

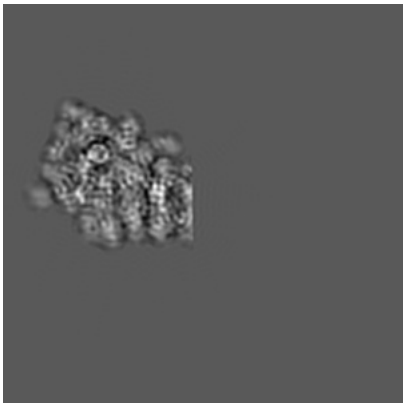
6.1.1 Primary map



X



Y

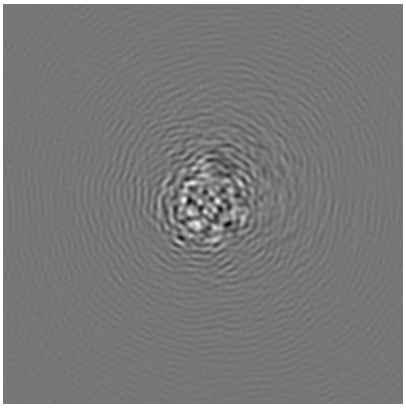


Z

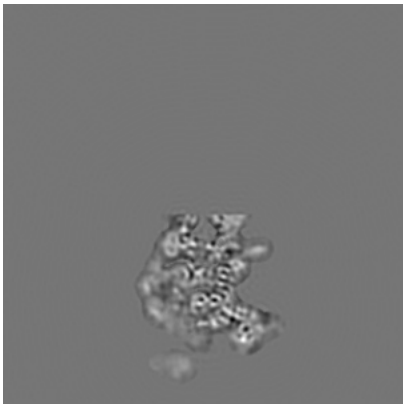
The images above show the map projected in three orthogonal directions.

6.2 Central slices

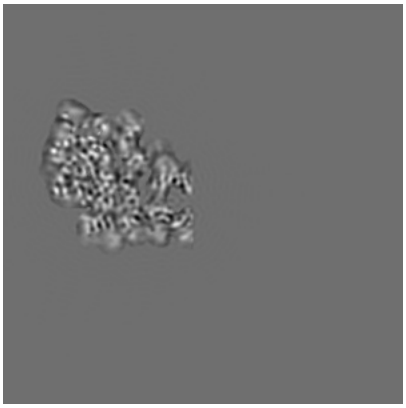
6.2.1 Primary map



X Index: 140



Y Index: 140



Z Index: 140

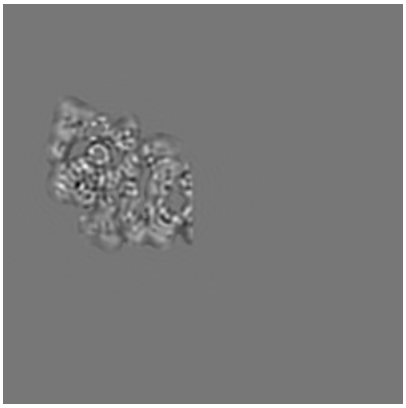
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

6.3.1 Primary map

X Index: 91

Y Index: 157

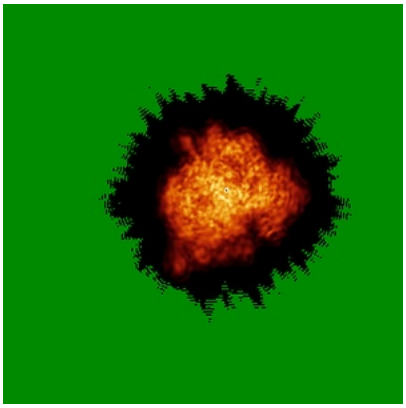


Z Index: 145

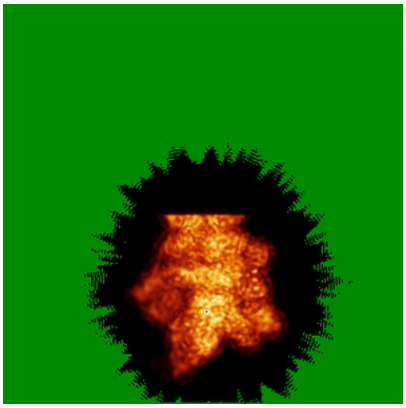
The images above show the largest variance slices of the map in three orthogonal directions.

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

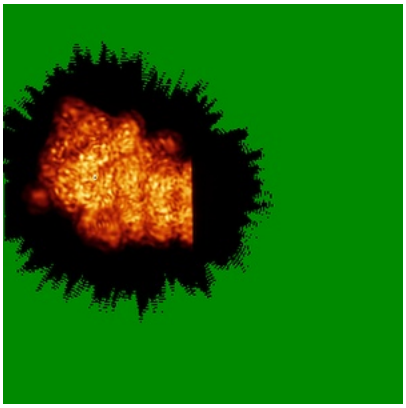
6.4.1 Primary map



X



Y

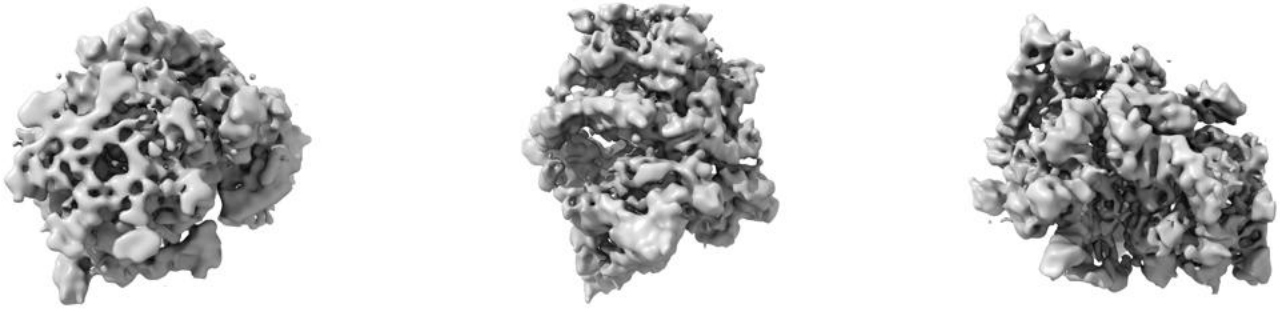


Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 1.17. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

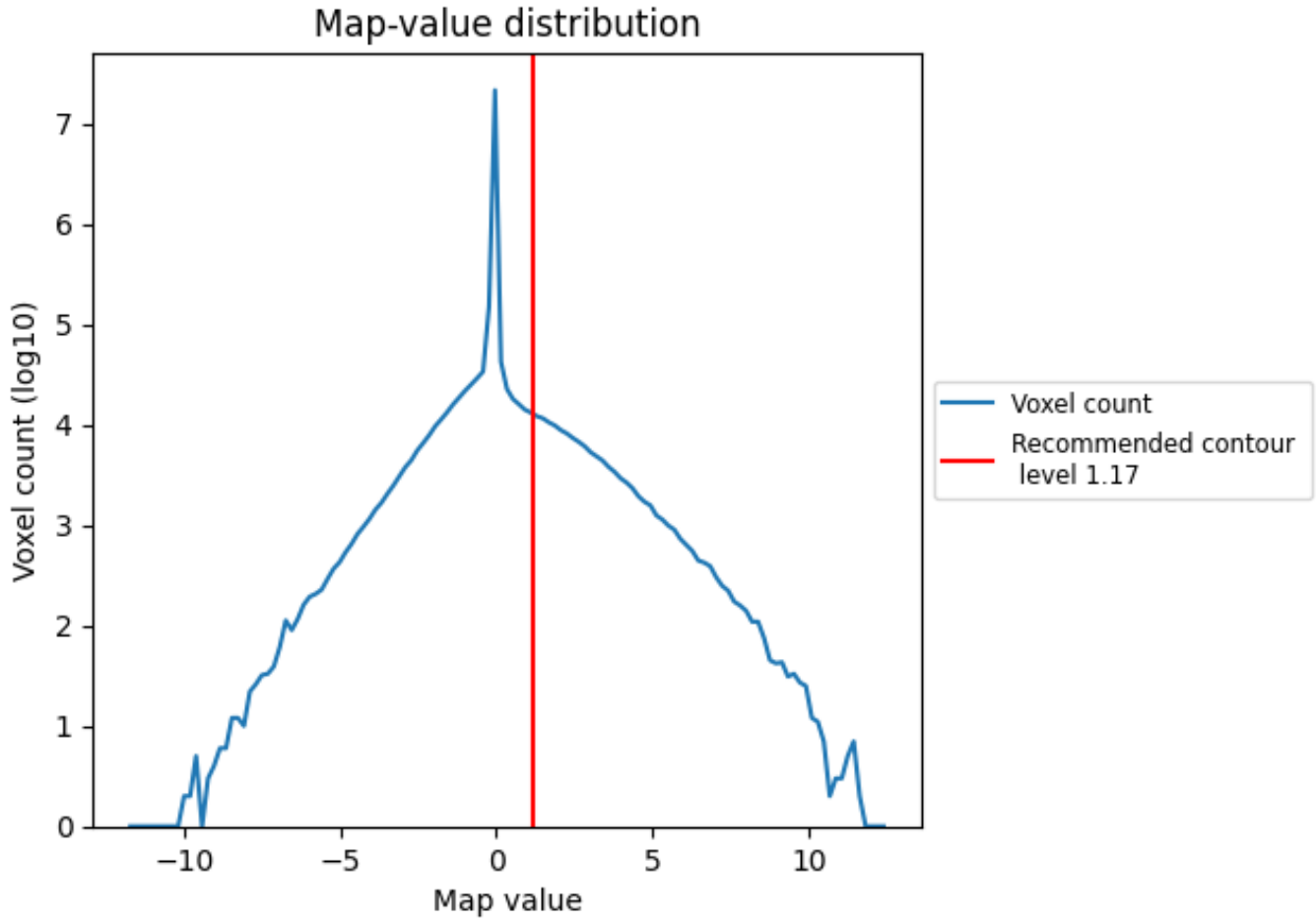
6.6 Mask visualisation (i)

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

7 Map analysis

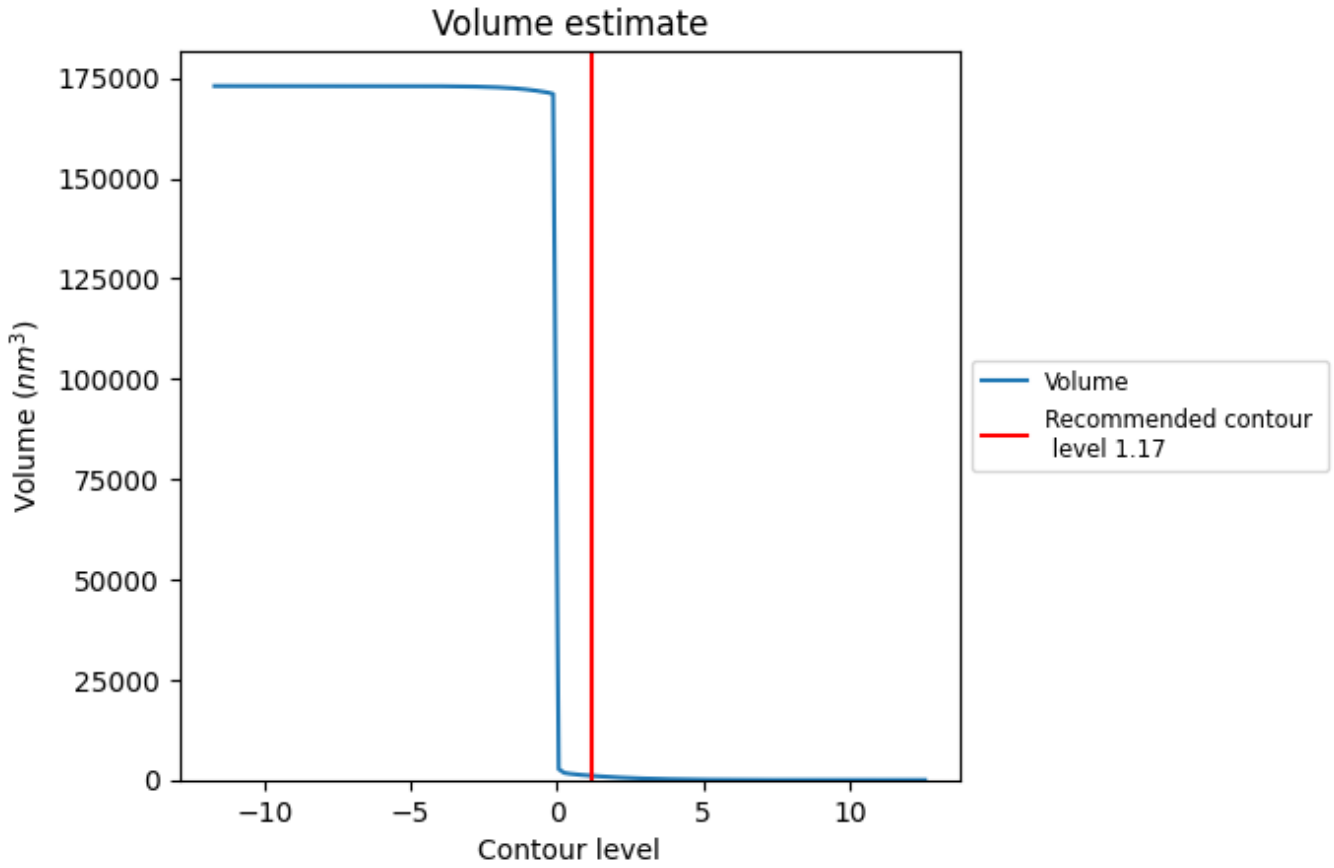
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

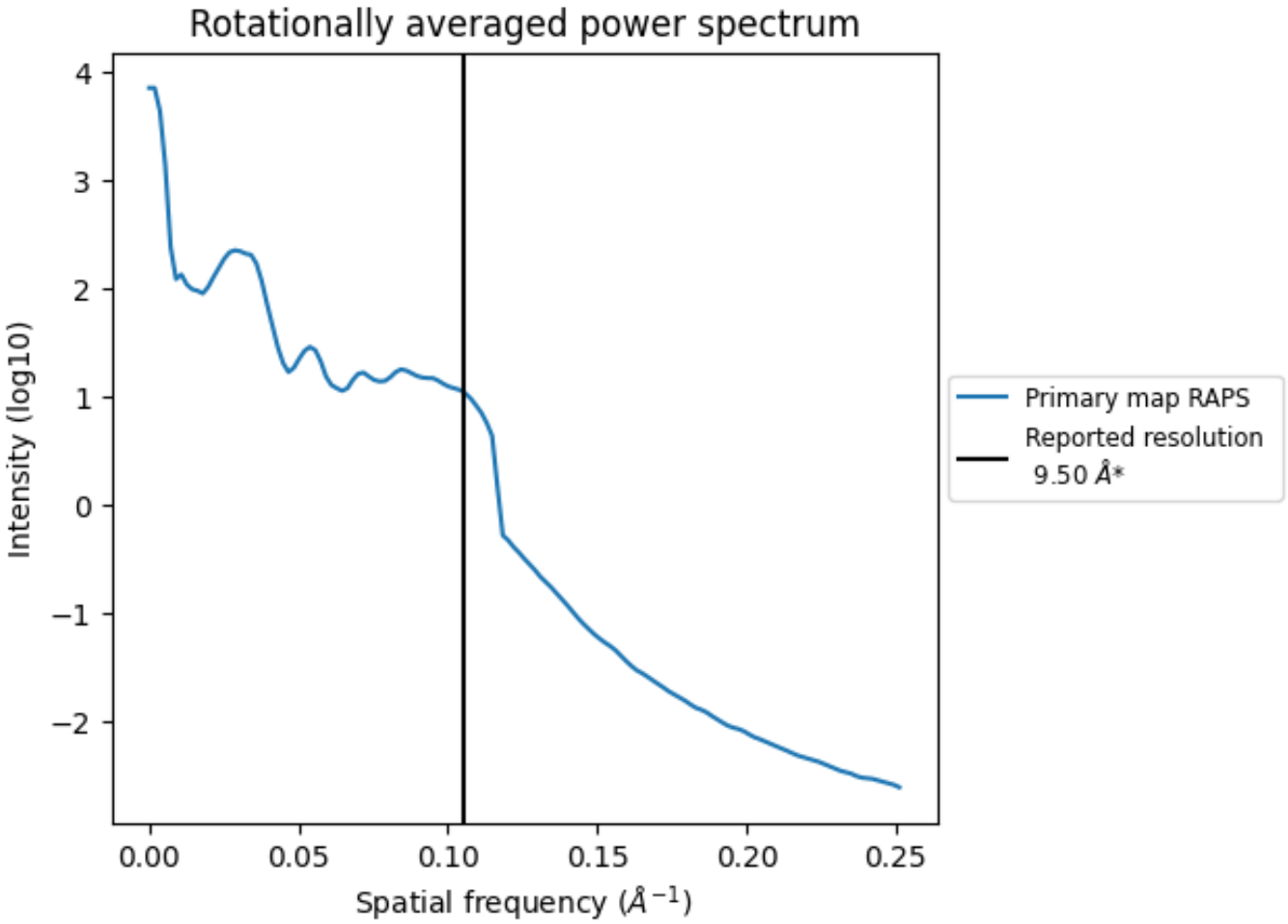
7.2 Volume estimate



The volume at the recommended contour level is 1054 nm^3; this corresponds to an approximate mass of 952 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.105 Å^{-1}

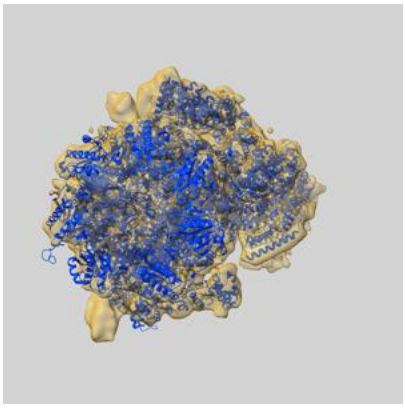
8 Fourier-Shell correlation

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

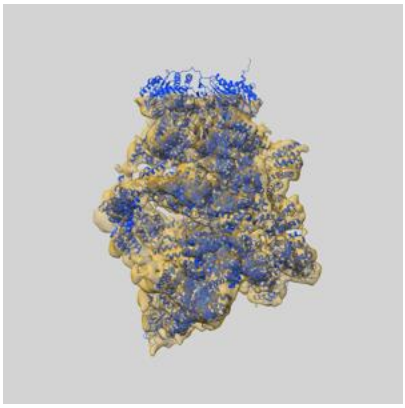
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-3034 and PDB model 5A5B. Per-residue inclusion information can be found in section 3 on page 11.

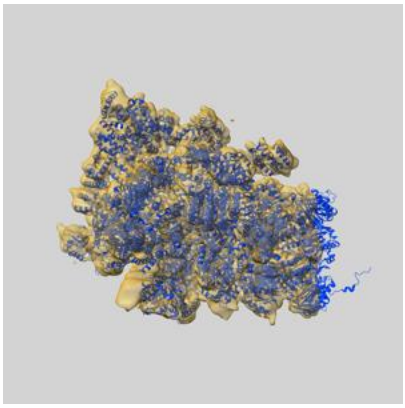
9.1 Map-model overlay



X



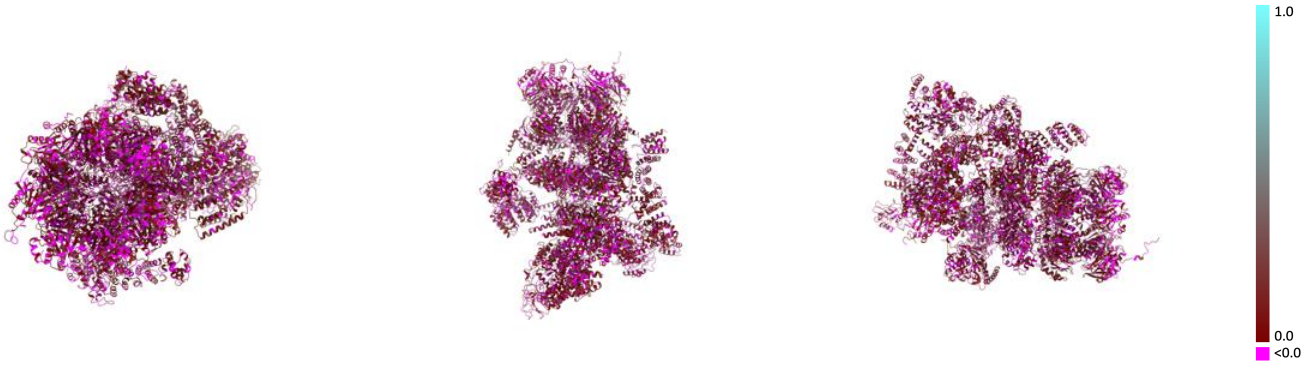
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 1.17 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

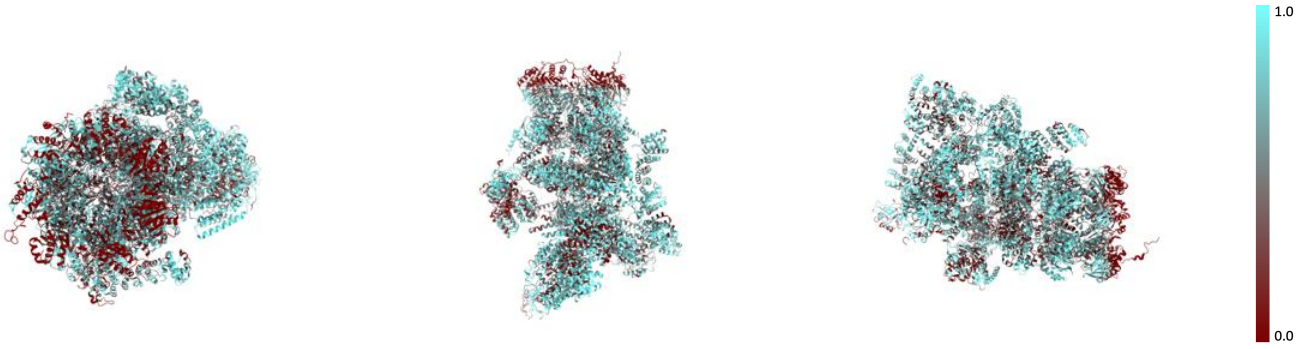
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

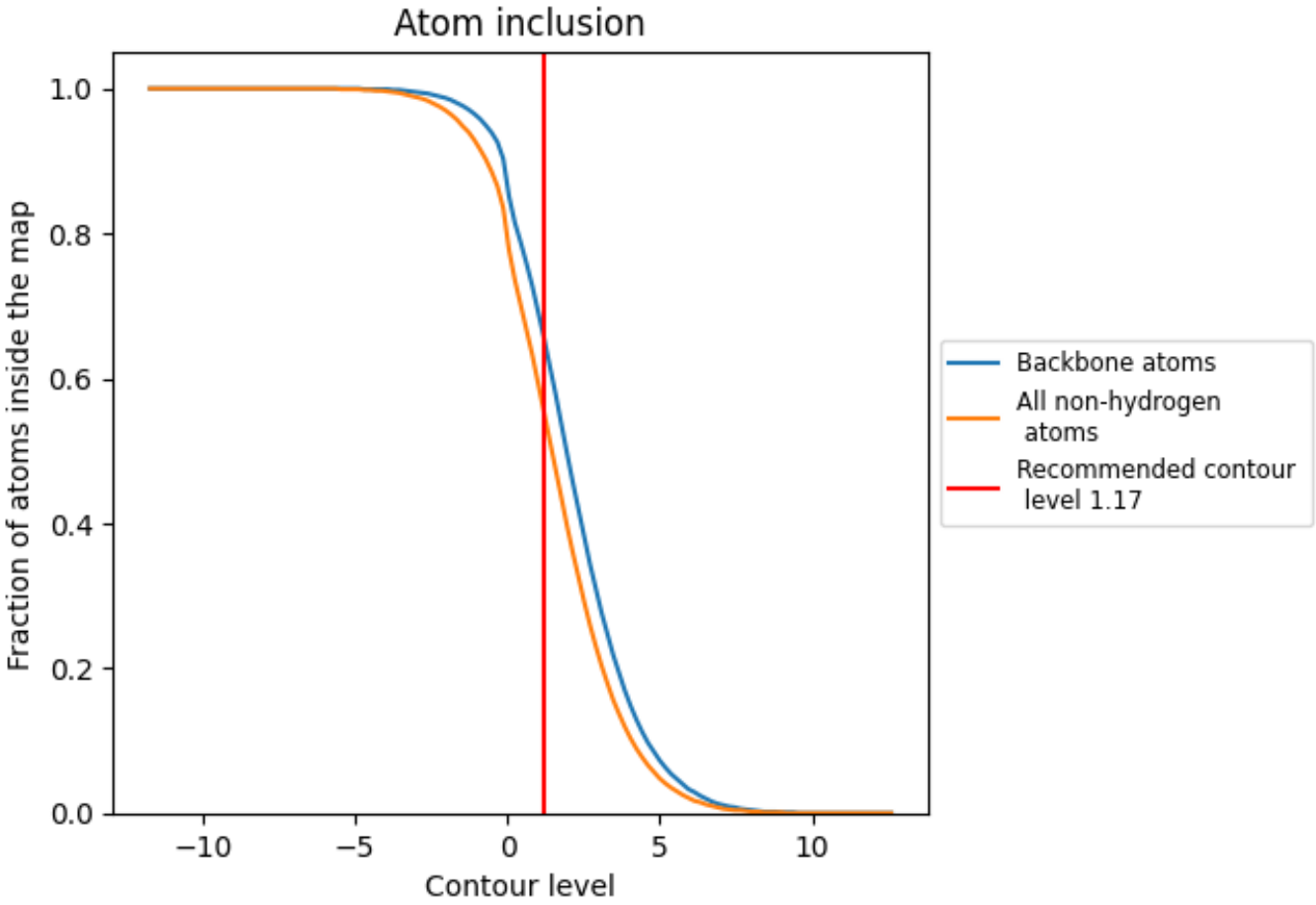
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (1.17).

9.4 Atom inclusion (i)



At the recommended contour level, 66% of all backbone atoms, 56% 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 (1.17) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5600	0.0710
1	0.3510	0.0390
2	0.2590	0.0270
3	0.2560	0.0390
4	0.3590	0.0410
5	0.4020	0.0540
6	0.3900	0.0510
7	0.3960	0.0590
8	0.5410	0.0900
9	0.4480	0.0500
A	0.6180	0.0790
B	0.5530	0.0690
C	0.5690	0.0840
D	0.6600	0.1000
E	0.6270	0.0900
F	0.6600	0.0830
G	0.6240	0.0810
H	0.4620	0.0380
I	0.4990	0.0700
J	0.5640	0.0670
K	0.5200	0.0710
L	0.5680	0.0690
M	0.4950	0.0180
N	0.6470	0.0910
O	0.7100	0.0950
P	0.7460	0.0990
Q	0.7080	0.0990
R	0.6920	0.0860
S	0.5420	0.0710
T	0.6530	0.0800
U	0.4850	0.0760
V	0.5680	0.0830
W	0.5810	0.0500
X	0.5400	0.0430
Y	0.7360	0.0980
Z	0.5480	0.0520