Full wwPDB X-ray Structure Validation Report (i)

Mar 6, 2026 – 05:33 PM UTC

PDB ID	:	1R9T / pdb_00001r9t
Title	:	RNA POLYMERASE II STRAND SEPARATED ELONGATION COMPLEX, MISMATCHED NUCLEOTIDE
Authors	:	Westover, K.D.; Bushnell, D.A.; Kornberg, R.D.
Deposited on	:	2003-10-30
Resolution	:	3.50 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

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

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

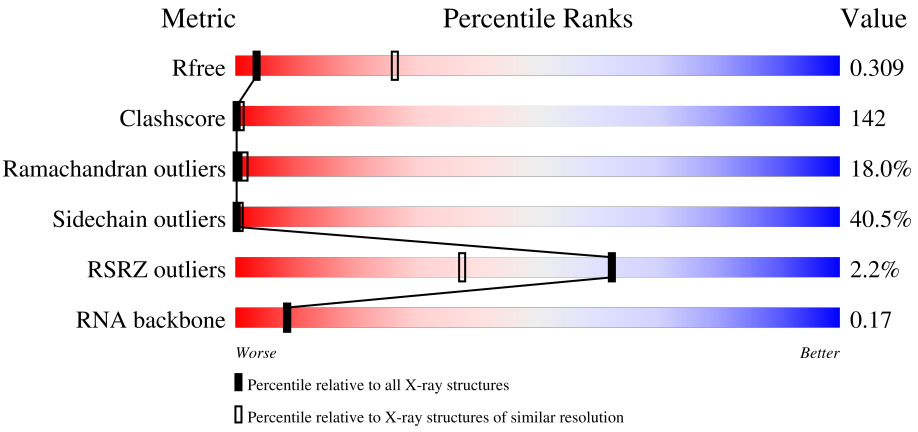
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal 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:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.50 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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1085 (3.54-3.46)
Clashscore	190562	1140 (3.54-3.46)
Ramachandran outliers	187476	1113 (3.54-3.46)
Sidechain outliers	187428	1114 (3.54-3.46)
RSRZ outliers	180081	1084 (3.54-3.46)
RNA backbone	3983	1010 (3.98-3.02)

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

Mol	Chain	Length	Quality of chain
1	R	10	90%, 50%, 50%
2	T	28	68%, 50%, 43%, 7%
3	N	14	50%, 79%, 21%
4	A	1733	%, 7%, 36%, 36%, 20%

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Mol	Chain	Length	Quality of chain
5	B	1224	9% 41% 39% 10%
6	C	318	12% 38% 33% 16%
7	E	215	7% 41% 51%
8	F	155	30% 23% 46%
9	H	146	3% 7% 45% 39% 9%
10	I	122	12% 35% 49%
11	J	70	11% 41% 37% 7%
12	K	120	9% 46% 40% 5%
13	L	70	6% 6% 30% 30% 34%

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
15	MG	A	2001	-	-	-	X
15	MG	A	2002	-	-	-	X

2 Entry composition

There are 16 unique types of molecules in this entry. The entry contains 29248 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a RNA chain called RNA strand.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	R	10	Total	C	N	O	P	0	0	0
			217	98	45	65	9			

- Molecule 2 is a DNA chain called DNA template strand.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	T	28	Total	C	N	O	P	0	0	0
			566	271	104	164	27			

- Molecule 3 is a DNA chain called DNA nontemplate strand.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	N	14	Total	C	N	O	P	0	0	0
			284	137	49	85	13			

- Molecule 4 is a protein called DNA-directed RNA polymerase II largest subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	A	1395	Total	C	N	O	S	0	0	0
			10969	6917	1923	2068	61			

- Molecule 5 is a protein called DNA-directed RNA polymerase II 140 kDa polypeptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	B	1106	Total	C	N	O	S	0	0	0
			8792	5568	1538	1631	55			

- Molecule 6 is a protein called DNA-directed RNA polymerase II 45 kDa polypeptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	C	266	Total	C	N	O	S	0	0	0
			2095	1317	348	417	13			

- Molecule 7 is a protein called DNA-directed RNA polymerases I, II, and III 27 kDa polypeptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	E	214	Total	C	N	O	S	0	0	0
			1752	1111	309	321	11			

- Molecule 8 is a protein called DNA-directed RNA polymerases I, II, and III 23 kDa polypeptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	F	84	Total	C	N	O	S	0	0	0
			679	434	115	127	3			

- Molecule 9 is a protein called DNA-directed RNA polymerases I, II, and III 14.5 kDa polypeptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	H	133	Total	C	N	O	S	0	0	0
			1068	673	180	211	4			

- Molecule 10 is a protein called DNA-directed RNA polymerase II 14.2 kDa polypeptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	I	119	Total	C	N	O	S	0	0	0
			971	596	179	186	10			

- Molecule 11 is a protein called DNA-directed RNA polymerases I, II, and III 8.3 kDa polypeptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	J	65	Total	C	N	O	S	0	0	0
			532	339	93	94	6			

- Molecule 12 is a protein called DNA-directed RNA polymerase II 13.6 kDa polypeptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	K	114	Total	C	N	O	S	0	0	0
			919	590	156	171	2			

- Molecule 13 is a protein called DNA-directed RNA polymerases I, II, and III 7.7 kDa polypeptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	L	46	Total	C	N	O	S	0	0	0
			363	224	72	63	4			

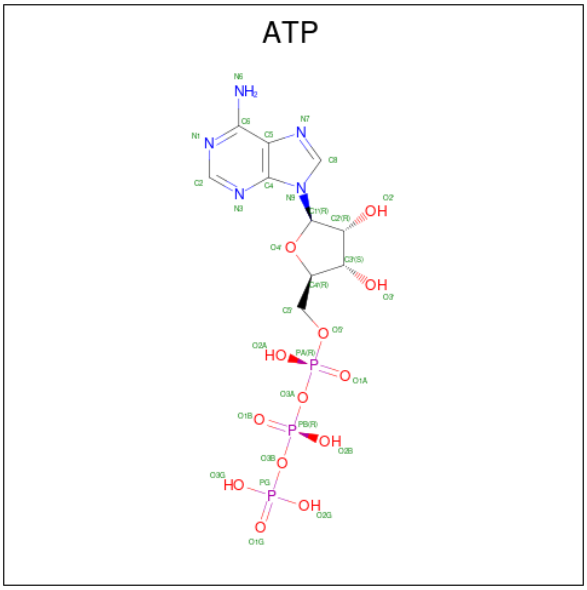
- Molecule 14 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
14	A	2	Total	Zn	0	0
			2	2		
14	B	1	Total	Zn	0	0
			1	1		
14	C	1	Total	Zn	0	0
			1	1		
14	I	2	Total	Zn	0	0
			2	2		
14	J	1	Total	Zn	0	0
			1	1		
14	L	1	Total	Zn	0	0
			1	1		

- Molecule 15 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
15	A	2	Total	Mg	0	0
			2	2		

- Molecule 16 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$).

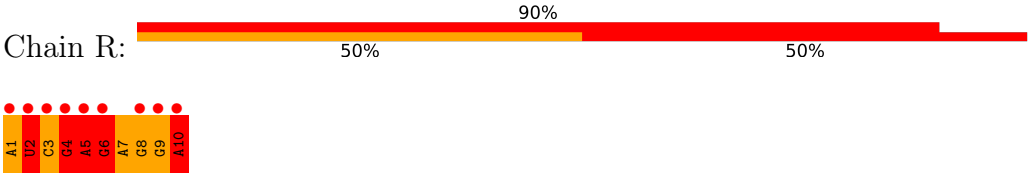


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
16	B	1	Total	C	N	O	P	0	0
			31	10	5	13	3		

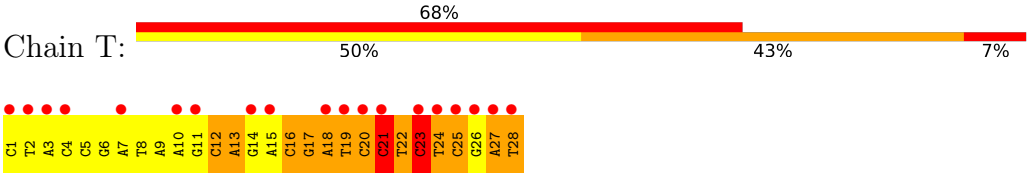
3 Residue-property plots (i)

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 electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density (RSRZ > 2). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

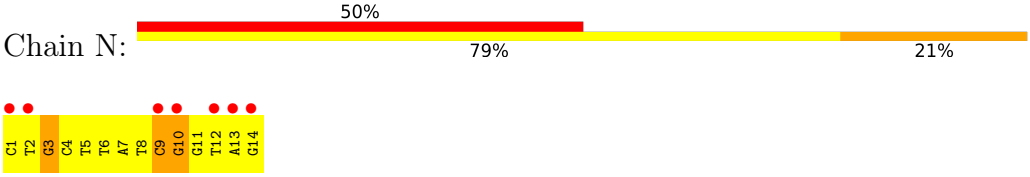
• Molecule 1: RNA strand



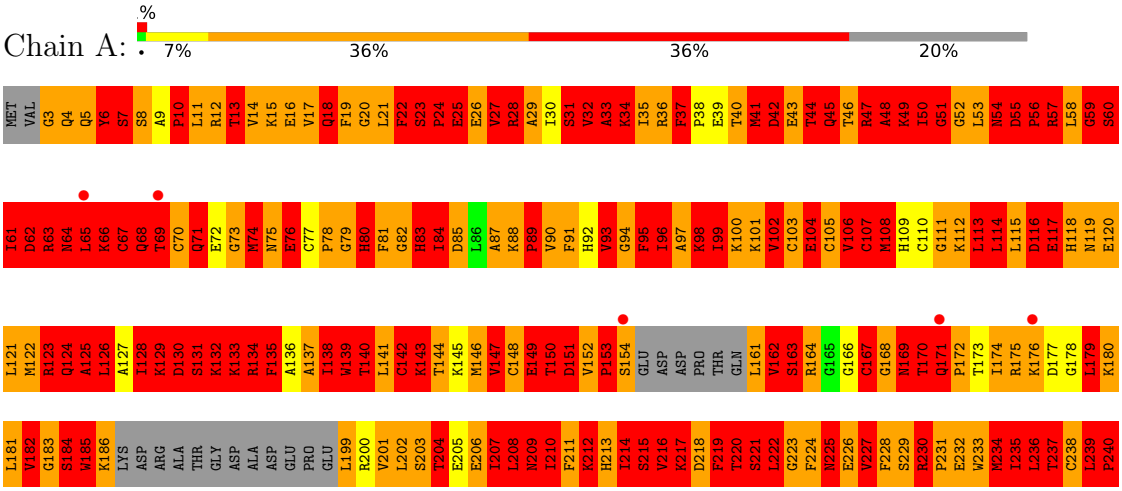
• Molecule 2: DNA template strand

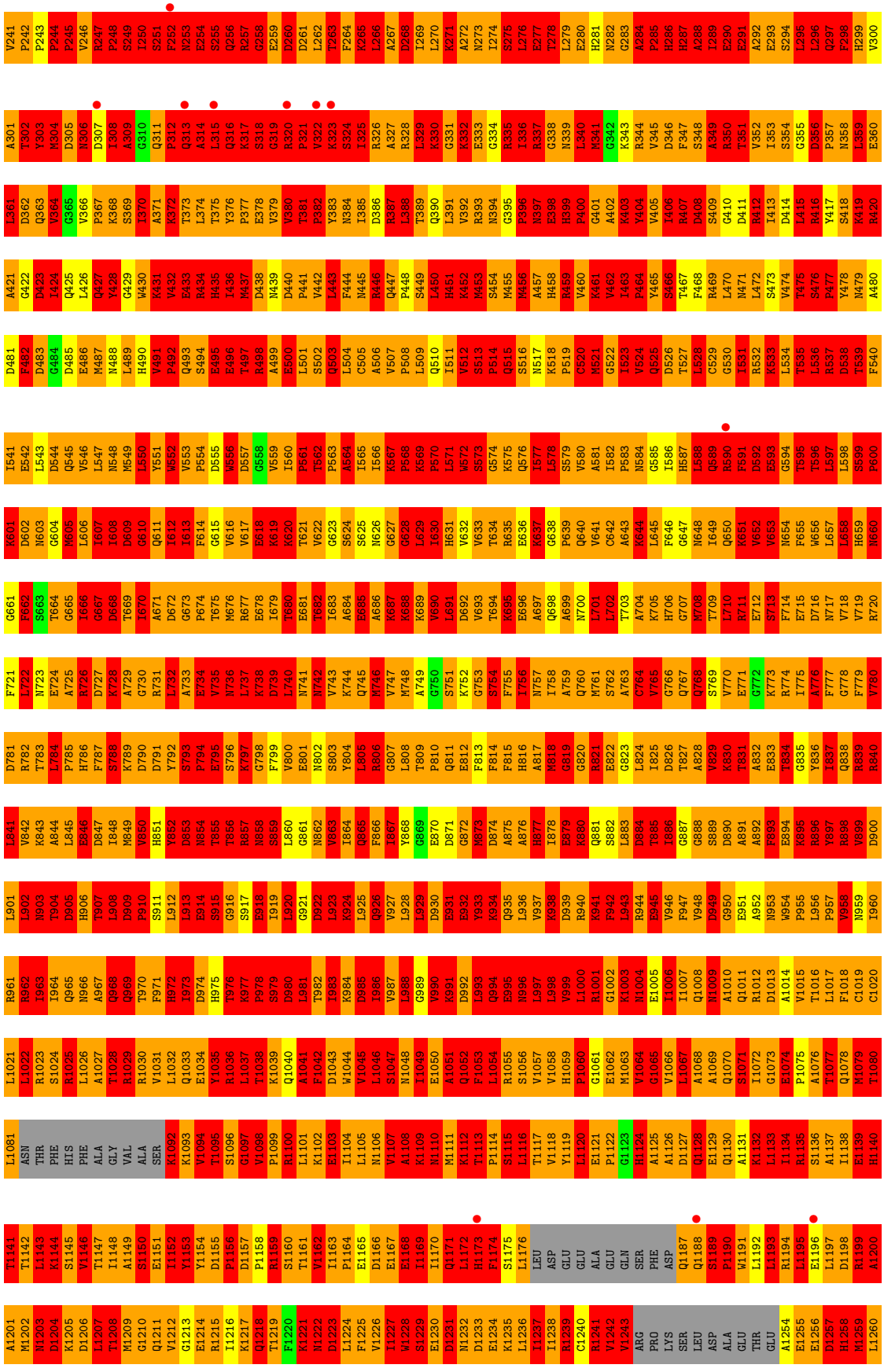


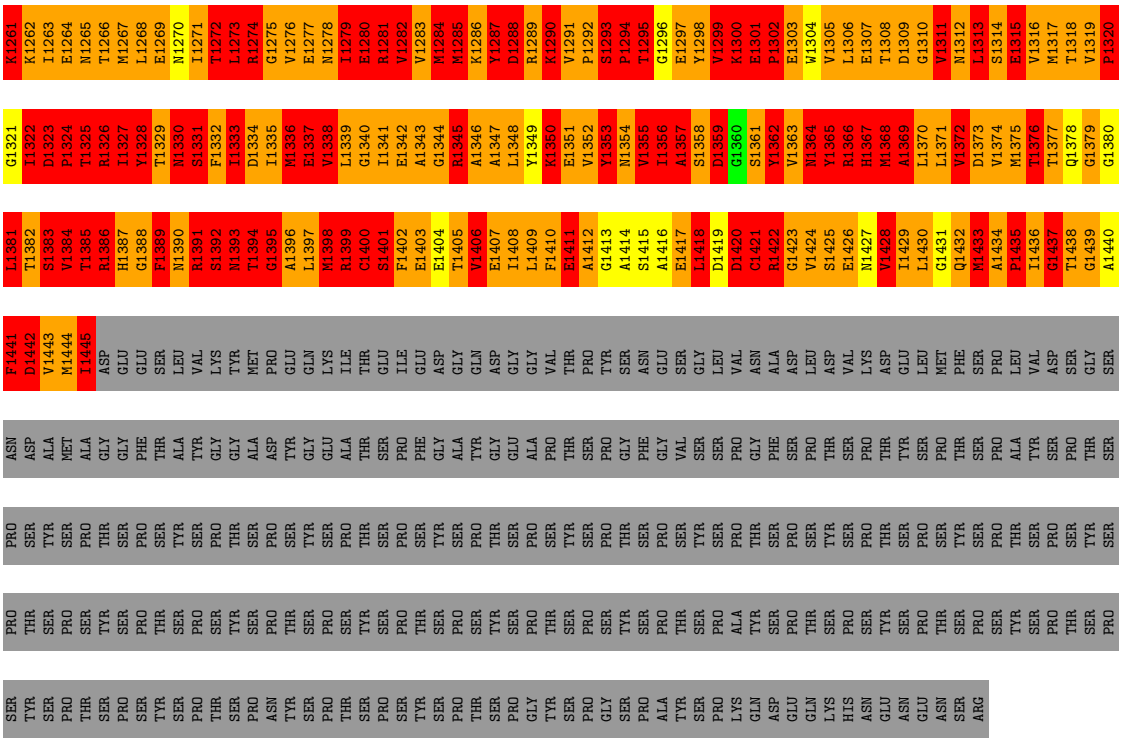
• Molecule 3: DNA nontemplate strand



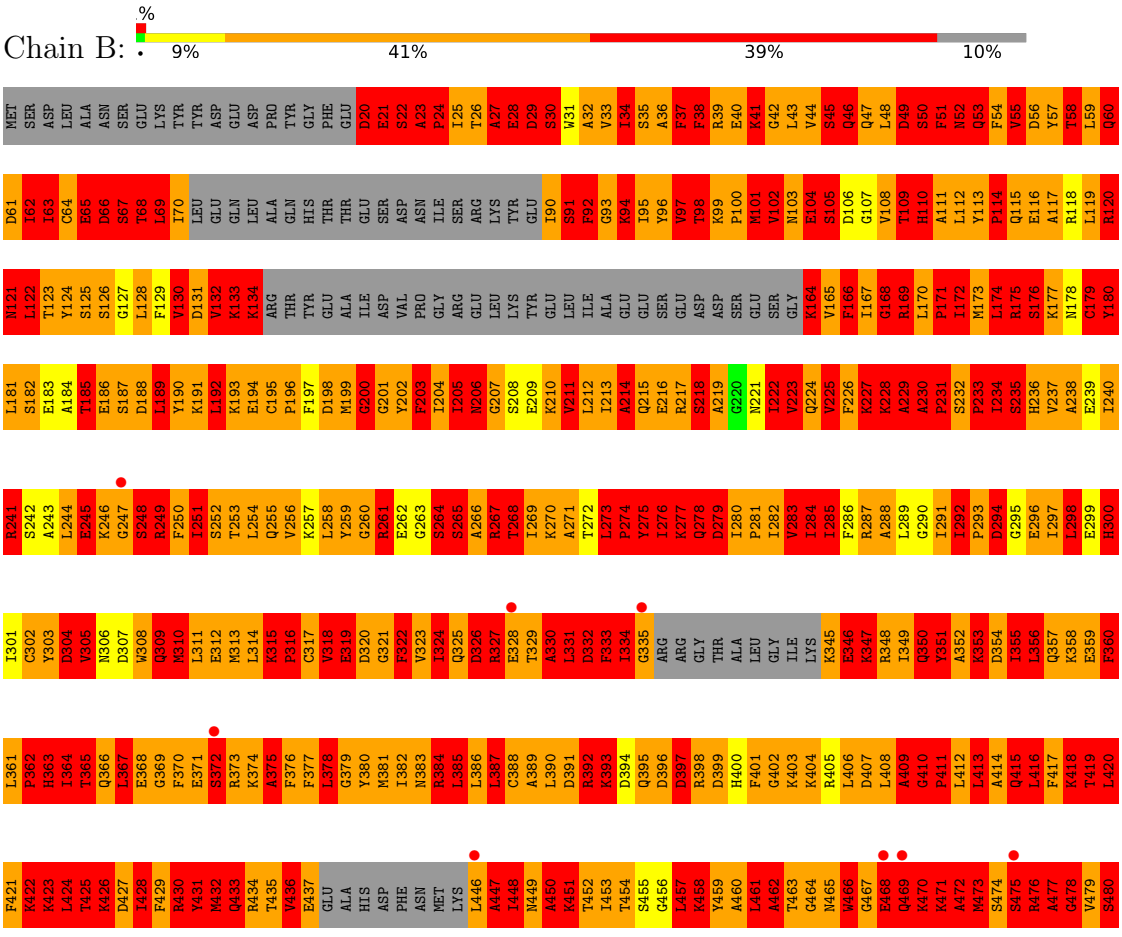
• Molecule 4: DNA-directed RNA polymerase II largest subunit

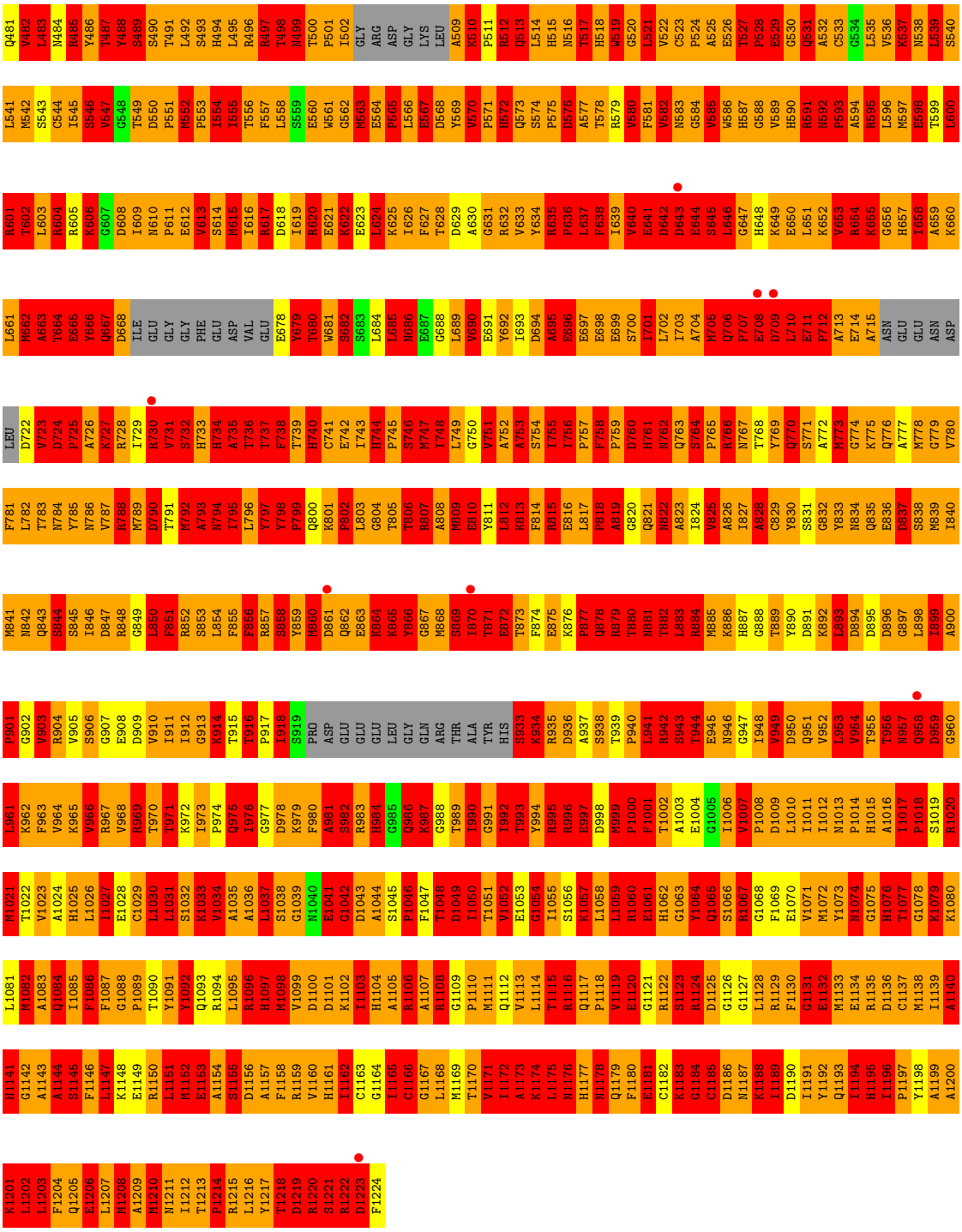






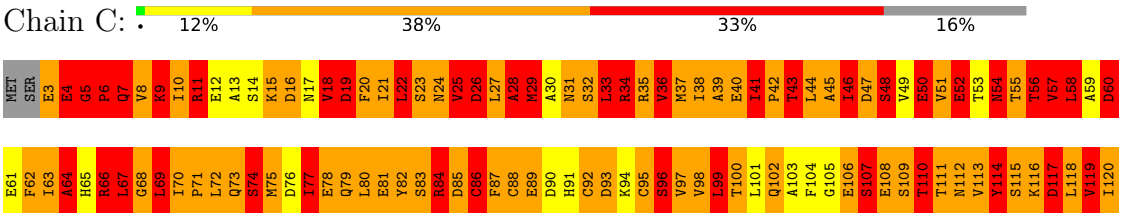
• Molecule 5: DNA-directed RNA polymerase II 140 kDa polypeptide

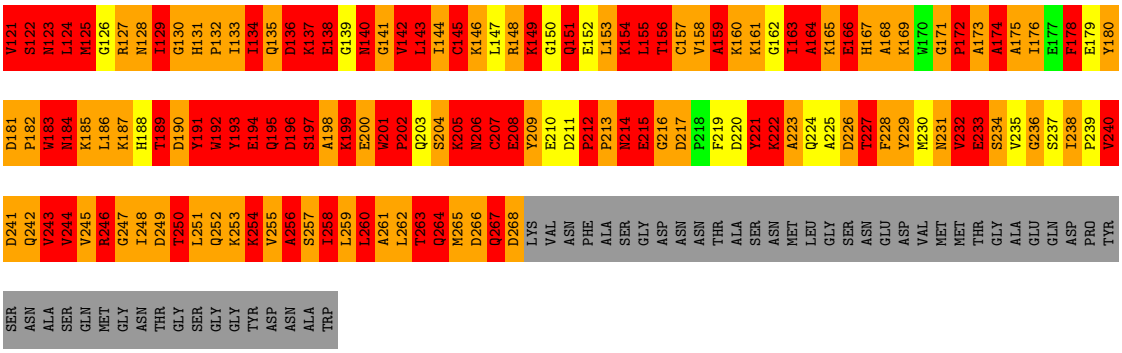




• Molecule 6: DNA-directed RNA polymerase II 45 kDa polypeptide

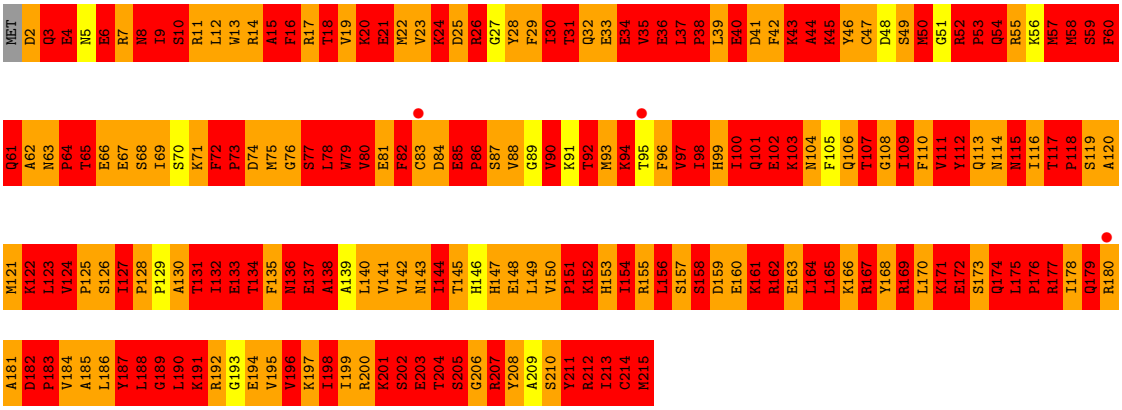
Chain C:





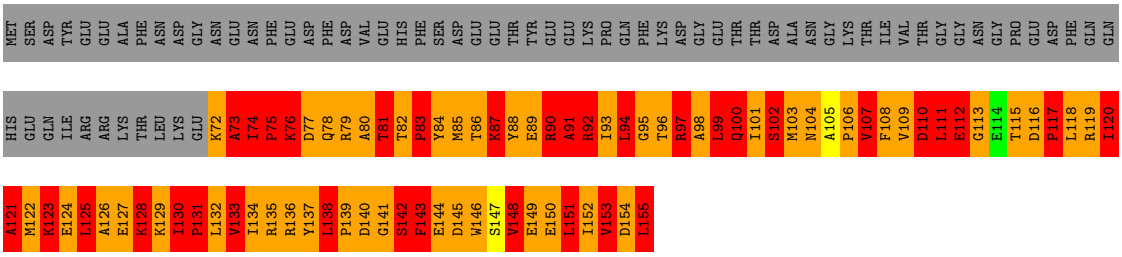
• Molecule 7: DNA-directed RNA polymerases I, II, and III 27 kDa polypeptide

Chain E:



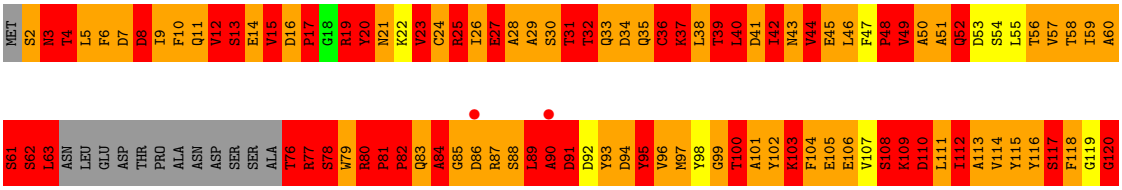
• Molecule 8: DNA-directed RNA polymerases I, II, and III 23 kDa polypeptide

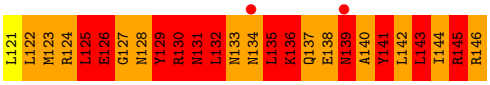
Chain F:



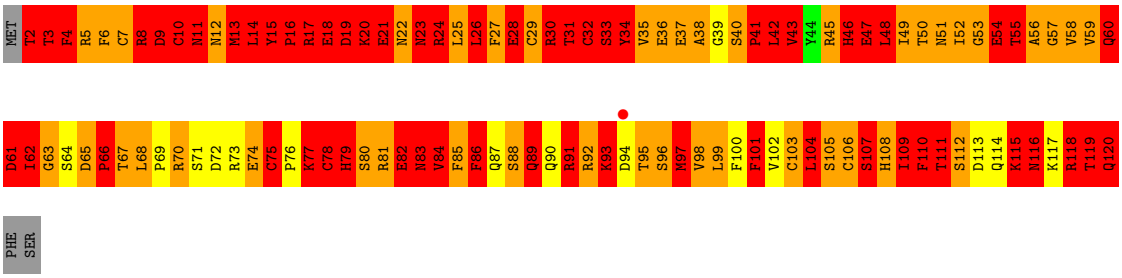
• Molecule 9: DNA-directed RNA polymerases I, II, and III 14.5 kDa polypeptide

Chain H:

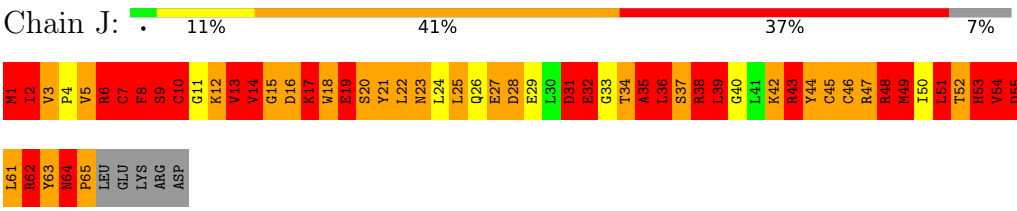




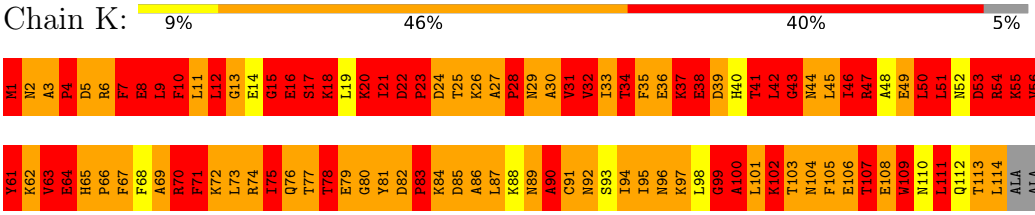
• Molecule 10: DNA-directed RNA polymerase II 14.2 kDa polypeptide



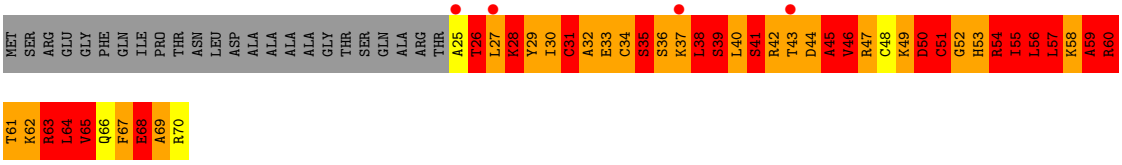
• Molecule 11: DNA-directed RNA polymerases I, II, and III 8.3 kDa polypeptide



• Molecule 12: DNA-directed RNA polymerase II 13.6 kDa polypeptide



• Molecule 13: DNA-directed RNA polymerases I, II, and III 7.7 kDa polypeptide



4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α, β, γ	168.85Å 222.96Å 193.60Å 90.00° 101.17° 90.00°	Depositor
Resolution (Å)	40.00 – 3.50 40.00 – 3.50	Depositor EDS
% Data completeness (in resolution range)	(Not available) (40.00-3.50) 93.6 (40.00-3.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	3.26 (at 3.48Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.230 , 0.317 0.226 , 0.309	Depositor DCC
R_{free} test set	8862 reflections (10.04%)	wwPDB-VP
Wilson B-factor (Å^2)	80.5	Xtriage
Anisotropy	0.219	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.27 , 114.9	EDS
L-test for twinning[2]	$< \|L\| > = 0.49$, $< L^2 > = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.91	EDS
Total number of atoms	29248	wwPDB-VP
Average B, all atoms (Å^2)	62.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.52% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: MG, ZN, ATP

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	R	2.68	14/244 (5.7%)	2.95	27/380 (7.1%)
2	T	1.69	14/633 (2.2%)	2.50	49/971 (5.0%)
3	N	0.91	2/316 (0.6%)	1.06	4/484 (0.8%)
4	A	4.65	2243/11163 (20.1%)	4.25	3160/15091 (20.9%)
5	B	4.64	1772/8963 (19.8%)	4.25	2551/12086 (21.1%)
6	C	4.38	421/2133 (19.7%)	4.19	575/2891 (19.9%)
7	E	4.87	395/1788 (22.1%)	4.18	508/2406 (21.1%)
8	F	4.60	141/691 (20.4%)	4.30	186/933 (19.9%)
9	H	5.16	264/1086 (24.3%)	4.35	321/1470 (21.8%)
10	I	4.74	212/989 (21.4%)	4.60	310/1331 (23.3%)
11	J	4.17	96/541 (17.7%)	3.92	117/727 (16.1%)
12	K	4.37	196/937 (20.9%)	3.99	247/1265 (19.5%)
13	L	5.37	92/365 (25.2%)	4.48	107/485 (22.1%)
All	All	4.57	5862/29849 (19.6%)	4.18	8162/40520 (20.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	R	0	1
2	T	1	2
4	A	2	121
5	B	4	114
6	C	1	11
7	E	0	17
8	F	0	5
9	H	0	16
10	I	1	18
11	J	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
12	K	0	9
13	L	0	5
All	All	9	321

All (5862) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	437	MET	SD-CE	68.53	3.50	1.79
7	E	117	THR	CA-CB	56.95	2.43	1.53
4	A	1285	MET	SD-CE	47.79	2.99	1.79
4	A	820	GLY	C-O	-44.84	0.63	1.23
4	A	1398	MET	SD-CE	44.29	2.90	1.79
5	B	552	MET	SD-CE	43.28	2.87	1.79
5	B	865	LYS	N-CA	42.53	1.73	1.46
4	A	322	VAL	CA-CB	-41.99	0.97	1.54
8	F	103	MET	SD-CE	41.76	2.83	1.79
5	B	473	MET	SD-CE	38.62	2.76	1.79
5	B	1189	ILE	CA-CB	38.42	2.00	1.54
6	C	265	MET	SD-CE	37.40	2.73	1.79
5	B	108	VAL	CA-CB	37.24	2.05	1.54
7	E	215	MET	SD-CE	36.74	2.71	1.79
4	A	1110	ASN	CB-CG	36.08	2.42	1.52
9	H	100	THR	CA-CB	34.84	2.14	1.53
7	E	50	MET	SD-CE	34.51	2.65	1.79
5	B	69	LEU	CA-C	34.32	1.95	1.52
6	C	41	ILE	CA-CB	-33.64	1.10	1.54
5	B	1111	MET	SD-CE	32.77	2.61	1.79
4	A	69	THR	CA-CB	32.52	2.08	1.53
5	B	1098	MET	SD-CE	32.19	2.60	1.79
9	H	81	PRO	CA-C	31.73	1.81	1.52
4	A	531	ILE	CA-CB	31.57	1.97	1.54
4	A	162	VAL	CA-CB	30.15	1.95	1.54
5	B	882	THR	N-CA	29.88	1.81	1.46
5	B	903	VAL	CA-CB	-29.63	1.17	1.54
5	B	918	ILE	CA-CB	29.59	1.92	1.54
4	A	74	MET	SD-CE	29.57	2.53	1.79
5	B	101	MET	SD-CE	27.90	2.49	1.79
4	A	1433	MET	SD-CE	27.68	2.48	1.79
4	A	972	HIS	CA-CB	27.42	1.99	1.53
4	A	1080	THR	CA-CB	27.08	1.99	1.53
5	B	1027	ILE	CA-CB	-26.25	1.25	1.54
6	C	125	MET	SD-CE	26.04	2.44	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	522	VAL	CA-CB	-25.99	1.19	1.54
13	L	26	THR	CA-CB	25.92	1.97	1.53
5	B	472	ALA	N-CA	25.71	1.79	1.46
4	A	1259	MET	SD-CE	25.51	2.43	1.79
4	A	274	ILE	CA-CB	25.34	1.89	1.54
7	E	121	MET	SD-CE	25.30	2.42	1.79
4	A	1317	MET	SD-CE	25.15	2.42	1.79
5	B	1022	THR	CA-CB	-24.67	1.20	1.52
4	A	1110	ASN	CA-CB	24.65	1.95	1.53
13	L	43	THR	CA-CB	24.09	1.85	1.53
4	A	153	PRO	CA-C	24.07	1.86	1.52
5	B	789	MET	SD-CE	23.89	2.39	1.79
4	A	676	MET	SD-CE	23.77	2.38	1.79
5	B	1210	MET	SD-CE	23.20	2.37	1.79
5	B	1223	ASP	CA-C	23.12	1.83	1.52
5	B	211	VAL	CA-CB	-23.01	1.25	1.54
5	B	510	LYS	N-CA	22.88	1.72	1.46
4	A	1278	ASN	CA-CB	22.82	1.84	1.54
9	H	15	VAL	CA-CB	22.58	1.81	1.53
4	A	976	THR	CA-CB	22.52	1.91	1.53
13	L	26	THR	CA-C	22.49	1.82	1.52
5	B	646	LEU	CA-CB	22.45	1.91	1.53
7	E	83	CYS	CA-C	22.34	1.81	1.52
5	B	68	THR	CA-CB	22.30	1.88	1.53
9	H	82	PRO	CA-C	22.25	1.83	1.52
13	L	50	ASP	N-CA	22.13	1.74	1.46
7	E	117	THR	CA-C	22.11	1.80	1.52
4	A	506	ALA	CA-CB	-22.08	1.18	1.53
4	A	341	MET	SD-CE	22.05	2.34	1.79
4	A	252	PHE	CA-C	22.05	1.73	1.52
5	B	305	VAL	CA-CB	21.98	1.81	1.54
4	A	873	MET	SD-CE	21.72	2.33	1.79
7	E	128	PRO	CA-C	-21.70	1.31	1.52
4	A	320	ARG	C-N	21.55	1.75	1.34
5	B	1071	VAL	CA-CB	-21.50	1.28	1.54
5	B	866	TYR	CA-CB	21.48	1.81	1.52
5	B	880	THR	CA-C	21.48	1.81	1.52
4	A	227	VAL	CA-CB	21.44	1.87	1.54
7	E	33	GLU	CA-C	21.36	1.81	1.52
4	A	1238	ILE	CA-CB	-21.04	1.27	1.54
4	A	1284	MET	SD-CE	21.02	2.32	1.79
4	A	1134	ILE	CA-CB	-20.92	1.26	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1355	VAL	CA-CB	20.88	1.76	1.54
5	B	868	MET	SD-CE	20.82	2.31	1.79
4	A	1063	MET	SD-CE	20.68	2.31	1.79
4	A	41	MET	SD-CE	20.60	2.31	1.79
5	B	1091	TYR	CA-C	-20.57	1.28	1.52
4	A	1408	ILE	CA-CB	-20.51	1.26	1.54
4	A	318	SER	CA-C	20.40	1.80	1.52
6	C	121	VAL	CA-CB	-20.35	1.25	1.54
4	A	278	THR	CA-CB	20.30	1.87	1.53
4	A	44	THR	CA-CB	20.22	1.87	1.53
4	A	1174	PHE	CA-C	20.17	1.79	1.52
6	C	235	VAL	CA-CB	-20.09	1.26	1.54
4	A	905	ASP	CA-C	20.05	1.79	1.52
12	K	1	MET	SD-CE	19.93	2.29	1.79
4	A	817	ALA	CA-CB	-19.89	1.20	1.53
4	A	1277	GLU	CA-CB	19.86	1.85	1.53
4	A	563	PRO	CA-C	-19.72	1.31	1.52
4	A	311	GLN	CB-CG	19.70	2.11	1.52
4	A	1444	MET	CA-C	19.70	1.77	1.52
4	A	87	ALA	CA-CB	19.68	1.78	1.53
5	B	613	VAL	CA-CB	-19.66	1.34	1.54
5	B	662	MET	SD-CE	19.53	2.28	1.79
4	A	286	HIS	CA-C	19.50	1.78	1.52
4	A	1346	ALA	CA-CB	-19.43	1.20	1.53
5	B	758	PHE	C-O	-19.43	1.14	1.23
6	C	176	ILE	CA-CB	-19.34	1.30	1.54
5	B	250	PHE	CA-C	19.33	1.77	1.52
4	A	608	ILE	CA-CB	-19.33	1.29	1.53
5	B	703	ILE	CA-CB	-19.33	1.29	1.54
5	B	95	ILE	CA-CB	-19.31	1.22	1.55
7	E	35	VAL	CA-CB	19.28	1.80	1.54
11	J	52	THR	CA-C	19.27	1.77	1.52
5	B	249	ARG	CA-C	19.25	1.78	1.52
5	B	595	ARG	CG-CD	19.22	2.10	1.52
4	A	1104	ILE	CA-CB	-19.08	1.33	1.54
12	K	49	GLU	CA-C	-19.07	1.28	1.52
10	I	9	ASP	CA-C	19.05	1.78	1.52
5	B	1085	ILE	CA-CB	-19.02	1.24	1.54
4	A	87	ALA	CA-C	19.01	1.62	1.52
7	E	57	MET	SD-CE	19.01	2.27	1.79
10	I	107	SER	CA-C	18.98	1.78	1.52
4	A	832	ALA	CA-CB	-18.95	1.23	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	277	GLU	CA-C	18.94	1.77	1.52
4	A	864	ILE	CA-C	-18.90	1.34	1.52
4	A	562	THR	CA-CB	-18.89	1.25	1.53
4	A	844	ALA	CA-CB	-18.88	1.24	1.53
5	B	757	PRO	CA-C	-18.88	1.31	1.52
4	A	152	VAL	CA-CB	18.85	1.78	1.54
5	B	447	ALA	CA-C	18.63	1.77	1.52
9	H	86	ASP	CA-C	18.60	1.76	1.53
5	B	382	ILE	CA-CB	-18.58	1.31	1.54
5	B	826	ALA	CA-CB	-18.56	1.19	1.53
4	A	1278	ASN	CB-CG	18.54	1.98	1.52
5	B	436	VAL	CA-C	18.50	1.76	1.52
5	B	1152	MET	SD-CE	18.46	2.25	1.79
4	A	103	CYS	CA-C	-18.42	1.37	1.52
4	A	565	ILE	CA-CB	-18.31	1.30	1.54
4	A	1283	VAL	CA-CB	-18.30	1.28	1.55
5	B	133	LYS	CA-C	18.28	1.77	1.53
4	A	1361	SER	CA-C	18.25	1.75	1.52
5	B	982	SER	CA-C	-18.22	1.28	1.52
4	A	764	CYS	CA-C	18.21	1.75	1.52
4	A	820	GLY	C-N	18.21	1.68	1.33
1	R	5	A	O3'-P	-18.20	1.33	1.61
12	K	3	ALA	CA-CB	-18.18	1.28	1.53
5	B	1133	MET	SD-CE	18.15	2.25	1.79
4	A	308	ILE	CA-C	18.09	1.71	1.53
5	B	865	LYS	CA-C	18.08	1.76	1.52
5	B	199	MET	SD-CE	18.08	2.24	1.79
5	B	283	VAL	CA-C	-18.03	1.30	1.52
5	B	866	TYR	CA-C	18.00	1.74	1.53
4	A	88	LYS	CA-C	17.98	1.75	1.52
5	B	693	ILE	CA-CB	-17.96	1.31	1.54
4	A	1174	PHE	N-CA	17.93	1.69	1.46
4	A	286	HIS	CA-CB	17.90	1.83	1.53
5	B	705	MET	SD-CE	-17.82	1.35	1.79
5	B	1212	ILE	CA-CB	-17.77	1.30	1.54
4	A	207	ILE	CA-C	-17.72	1.30	1.52
5	B	646	LEU	CA-C	17.71	1.76	1.52
5	B	615	MET	SD-CE	17.71	2.23	1.79
4	A	250	ILE	CA-CB	17.70	1.78	1.54
10	I	52	ILE	CA-CB	17.68	1.78	1.54
13	L	51	CYS	CA-C	17.53	1.73	1.53
10	I	77	LYS	CA-CB	17.53	1.80	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	840	ILE	CA-CB	-17.49	1.33	1.54
4	A	977	LYS	CA-C	17.46	1.71	1.52
4	A	42	ASP	CA-CB	17.45	1.75	1.53
9	H	87	ARG	CA-C	17.44	1.73	1.52
11	J	55	ASP	CA-CB	17.41	1.75	1.52
5	B	880	THR	CA-CB	17.34	1.82	1.53
9	H	109	LYS	CA-C	17.33	1.75	1.52
7	E	159	ASP	CA-CB	17.30	1.75	1.53
5	B	1219	ASP	CA-C	17.26	1.74	1.52
9	H	3	ASN	N-CA	17.17	1.68	1.46
4	A	553	VAL	CA-CB	-17.16	1.32	1.54
4	A	875	ALA	CA-CB	-17.15	1.26	1.53
4	A	958	VAL	CA-CB	-17.15	1.31	1.54
4	A	992	ASP	CA-C	-17.10	1.32	1.52
4	A	125	ALA	CA-C	17.07	1.75	1.52
6	C	42	PRO	CA-C	-17.01	1.32	1.52
5	B	293	PRO	CA-C	17.01	1.71	1.52
5	B	881	ASN	CA-C	17.01	1.75	1.52
5	B	709	ASP	CA-CB	17.00	1.82	1.53
9	H	132	LEU	CA-C	16.99	1.75	1.52
6	C	266	ASP	CA-C	16.99	1.75	1.52
4	A	252	PHE	N-CA	16.98	1.65	1.46
5	B	479	VAL	CA-CB	-16.98	1.31	1.54
5	B	733	HIS	CA-C	16.95	1.75	1.52
6	C	225	ALA	CA-CB	-16.94	1.24	1.53
5	B	473	MET	CG-SD	16.93	2.23	1.80
4	A	1335	ILE	CA-CB	-16.93	1.36	1.54
5	B	793	ALA	CA-CB	-16.91	1.24	1.53
5	B	709	ASP	CA-C	16.90	1.75	1.52
6	C	136	ASP	CA-C	16.90	1.75	1.52
4	A	672	ASP	CB-CG	16.89	1.94	1.52
5	B	323	VAL	CA-CB	-16.89	1.36	1.54
5	B	275	TYR	CA-CB	16.88	1.81	1.53
4	A	1336	MET	SD-CE	16.82	2.21	1.79
13	L	43	THR	CA-C	16.76	1.72	1.52
13	L	50	ASP	CA-C	16.74	1.75	1.52
4	A	1121	GLU	CA-CB	16.73	1.77	1.53
5	B	462	ALA	CA-CB	-16.70	1.27	1.53
5	B	644	GLU	CA-C	16.66	1.72	1.52
6	C	133	ILE	CA-CB	-16.63	1.31	1.54
4	A	316	GLN	CA-C	16.61	1.76	1.52
4	A	1039	LYS	CA-C	-16.60	1.30	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	868	MET	CA-C	16.59	1.74	1.53
5	B	883	LEU	CA-CB	16.59	1.81	1.53
5	B	1221	SER	CA-C	16.54	1.75	1.52
4	A	1113	THR	CA-CB	-16.51	1.35	1.53
5	B	949	VAL	CA-CB	-16.50	1.38	1.54
4	A	776	ALA	CA-CB	-16.49	1.25	1.53
4	A	69	THR	N-CA	16.40	1.67	1.46
5	B	266	ALA	CA-C	16.38	1.74	1.52
8	F	73	ALA	CA-CB	-16.38	1.25	1.53
5	B	1073	TYR	CA-C	-16.37	1.32	1.52
10	I	9	ASP	CB-CG	16.31	1.92	1.52
4	A	249	SER	CA-C	16.31	1.74	1.52
5	B	646	LEU	CB-CG	16.30	1.86	1.53
10	I	10	CYS	N-CA	16.30	1.67	1.46
5	B	25	ILE	CA-CB	-16.30	1.31	1.54
5	B	709	ASP	N-CA	16.27	1.67	1.46
4	A	895	LYS	CB-CG	16.24	2.01	1.52
5	B	876	LYS	C-O	-16.23	1.06	1.24
4	A	877	HIS	CA-CB	16.19	1.77	1.53
10	I	119	THR	CA-C	16.18	1.74	1.52
5	B	69	LEU	C-O	16.17	1.43	1.24
4	A	327	ALA	CA-CB	16.16	1.81	1.53
4	A	620	LYS	CB-CG	16.13	2.00	1.52
5	B	1138	MET	SD-CE	16.13	2.19	1.79
5	B	589	VAL	CA-CB	-16.11	1.33	1.54
5	B	102	VAL	CA-CB	-16.11	1.32	1.54
5	B	695	ALA	CA-CB	16.10	1.80	1.53
4	A	669	THR	CA-CB	-16.09	1.30	1.53
7	E	124	VAL	CA-C	16.06	1.69	1.52
6	C	75	MET	SD-CE	16.06	2.19	1.79
5	B	734	HIS	N-CA	16.05	1.66	1.46
10	I	41	PRO	CA-C	-16.05	1.24	1.52
5	B	757	PRO	C-O	-16.04	1.06	1.23
4	A	905	ASP	CB-CG	16.03	1.92	1.52
9	H	117	SER	CA-C	16.02	1.73	1.52
12	K	69	ALA	CA-CB	-16.01	1.31	1.52
4	A	237	THR	CA-CB	16.00	1.80	1.53
4	A	453	MET	SD-CE	16.00	2.19	1.79
4	A	275	SER	N-CA	15.96	1.66	1.46
5	B	595	ARG	CD-NE	15.93	1.68	1.46
10	I	117	LYS	CA-C	15.92	1.73	1.52
4	A	1356	ILE	CA-CB	-15.91	1.32	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	442	VAL	CA-CB	-15.88	1.32	1.55
5	B	219	ALA	CA-CB	15.87	1.77	1.53
4	A	278	THR	CA-C	15.86	1.74	1.52
5	B	667	GLN	CB-CG	15.86	2.00	1.52
12	K	95	ILE	CA-CB	-15.84	1.34	1.54
5	B	882	THR	CA-CB	15.83	1.78	1.53
8	F	130	ILE	N-CA	15.83	1.66	1.46
6	C	64	ALA	CA-CB	-15.81	1.26	1.53
6	C	4	GLU	N-CA	15.79	1.66	1.46
4	A	727	ASP	CA-C	-15.78	1.31	1.52
5	B	1221	SER	CA-CB	15.73	1.80	1.53
5	B	472	ALA	C-O	15.71	1.43	1.24
4	A	255	SER	CA-C	15.71	1.72	1.52
9	H	110	ASP	CA-CB	15.70	1.80	1.53
7	E	45	LYS	CB-CG	15.69	1.99	1.52
10	I	73	ARG	CA-C	15.69	1.62	1.53
6	C	46	ILE	CA-CB	-15.68	1.34	1.53
5	B	283	VAL	CA-CB	-15.62	1.35	1.54
9	H	84	ALA	CA-CB	15.61	1.76	1.54
5	B	734	HIS	CA-C	15.60	1.73	1.52
10	I	107	SER	CA-CB	15.59	1.79	1.53
6	C	257	SER	CA-C	-15.59	1.31	1.52
4	A	185	TRP	CA-C	15.53	1.73	1.52
5	B	853	SER	CA-CB	-15.53	1.33	1.53
4	A	251	SER	CA-C	15.50	1.73	1.52
10	I	29	CYS	CA-CB	15.44	1.77	1.53
7	E	31	THR	CA-CB	15.42	1.79	1.53
4	A	1237	ILE	CA-CB	-15.41	1.29	1.55
5	B	1194	ILE	CA-CB	-15.40	1.33	1.54
4	A	534	LEU	CA-C	-15.39	1.32	1.52
4	A	80	HIS	N-CA	15.39	1.64	1.45
5	B	549	THR	CB-CG2	15.38	2.03	1.52
5	B	1007	VAL	C-O	-15.37	1.05	1.24
9	H	34	ASP	CB-CG	15.35	1.90	1.52
7	E	98	ILE	CA-CB	15.35	1.75	1.54
4	A	1077	THR	CA-C	-15.32	1.32	1.52
5	B	466	TRP	CG-CD2	-15.31	1.16	1.43
4	A	284	ALA	CA-CB	15.30	1.77	1.53
5	B	950	ASP	CA-C	-15.29	1.36	1.52
5	B	44	VAL	CA-CB	-15.29	1.36	1.54
5	B	860	MET	SD-CE	15.27	2.17	1.79
4	A	200	ARG	N-CA	15.25	1.66	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	554	PRO	CA-C	-15.24	1.30	1.52
7	E	45	LYS	CA-CB	15.23	1.79	1.53
5	B	62	ILE	CA-C	-15.22	1.32	1.52
6	C	113	VAL	CA-CB	-15.22	1.35	1.54
4	A	972	HIS	CB-CG	15.21	1.71	1.50
7	E	95	THR	CA-C	15.19	1.73	1.52
4	A	987	VAL	CB-CG2	15.18	2.02	1.52
4	A	976	THR	CA-C	15.15	1.73	1.52
4	A	1110	ASN	CA-C	15.13	1.73	1.52
4	A	1256	GLU	CA-CB	15.13	1.79	1.53
4	A	1058	VAL	CA-CB	-15.12	1.37	1.54
5	B	429	PHE	CB-CG	15.11	1.85	1.50
9	H	19	ARG	CB-CG	15.10	1.97	1.52
4	A	1291	VAL	CA-CB	-15.09	1.34	1.54
10	I	51	ASN	CA-C	15.08	1.74	1.52
4	A	972	HIS	N-CA	15.07	1.65	1.46
6	C	213	PRO	CA-C	15.07	1.73	1.52
5	B	24	PRO	CA-C	-15.06	1.38	1.53
4	A	895	LYS	CA-CB	15.06	1.78	1.53
9	H	34	ASP	CA-CB	15.04	1.76	1.53
5	B	637	LEU	CA-CB	-15.04	1.23	1.53
4	A	287	HIS	CA-C	15.03	1.73	1.53
12	K	83	PRO	CB-CG	15.01	2.24	1.49
4	A	55	ASP	CA-C	14.99	1.71	1.52
9	H	2	SER	CA-C	14.99	1.84	1.52
4	A	1173	HIS	CA-C	14.97	1.75	1.53
4	A	1368	MET	SD-CE	14.96	2.17	1.79
5	B	485	ARG	CA-CB	-14.95	1.41	1.53
5	B	726	ALA	CA-CB	-14.95	1.32	1.54
5	B	682	SER	CA-C	-14.94	1.32	1.52
5	B	414	ALA	CA-CB	-14.93	1.29	1.53
4	A	979	SER	CA-C	-14.93	1.32	1.52
5	B	478	GLY	CA-C	14.92	1.73	1.51
4	A	128	ILE	CA-CB	14.89	1.74	1.54
4	A	1153	TYR	CA-C	14.88	1.72	1.52
10	I	60	GLN	CB-CG	14.84	1.97	1.52
5	B	483	LEU	CA-C	14.84	1.72	1.52
5	B	879	ARG	CA-C	14.83	1.72	1.52
5	B	315	LYS	CA-CB	14.82	1.76	1.53
4	A	1154	TYR	CA-C	14.81	1.71	1.52
9	H	76	THR	CA-CB	14.79	1.94	1.54
4	A	1207	LEU	N-CA	14.78	1.63	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1162	VAL	CA-CB	-14.78	1.35	1.54
5	B	509	ALA	CA-C	14.77	1.83	1.52
5	B	799	PRO	CA-C	-14.77	1.31	1.52
5	B	23	ALA	CA-CB	-14.72	1.30	1.53
5	B	867	GLY	CA-C	14.72	1.68	1.52
4	A	311	GLN	CG-CD	14.71	1.88	1.52
7	E	151	PRO	CA-C	14.71	1.73	1.52
10	I	16	PRO	CA-C	14.67	1.73	1.52
5	B	256	VAL	CA-CB	-14.67	1.33	1.53
13	L	26	THR	N-CA	14.67	1.65	1.46
7	E	44	ALA	CA-C	14.66	1.72	1.52
4	A	848	ILE	CA-CB	-14.64	1.36	1.54
6	C	86	CYS	CA-C	-14.63	1.34	1.52
8	F	106	PRO	CA-C	-14.61	1.34	1.52
9	H	132	LEU	CA-CB	14.58	1.78	1.53
4	A	895	LYS	CG-CD	14.58	1.96	1.52
8	F	110	ASP	CA-C	14.56	1.69	1.52
5	B	470	LYS	N-CA	14.53	1.65	1.46
4	A	905	ASP	CA-CB	14.51	1.77	1.53
4	A	311	GLN	CA-CB	14.48	1.82	1.53
5	B	1189	ILE	CA-C	14.47	1.69	1.52
6	C	49	VAL	CA-CB	-14.47	1.37	1.54
4	A	577	ILE	CA-CB	-14.46	1.35	1.54
4	A	321	PRO	C-O	14.45	1.52	1.23
11	J	2	ILE	CA-CB	-14.45	1.34	1.54
4	A	1121	GLU	CB-CG	14.44	1.95	1.52
5	B	1119	VAL	CA-CB	-14.44	1.34	1.54
9	H	144	ILE	CA-CB	-14.43	1.36	1.54
5	B	315	LYS	CG-CD	14.41	1.95	1.52
10	I	116	ASN	CA-CB	14.41	1.77	1.53
5	B	753	ALA	CA-CB	-14.41	1.29	1.53
4	A	65	LEU	CA-CB	14.39	1.76	1.53
4	A	1098	VAL	CA-CB	-14.39	1.35	1.54
4	A	948	VAL	CA-CB	-14.38	1.34	1.54
5	B	225	VAL	CA-CB	-14.38	1.36	1.54
2	T	21	DC	O3'-P	-14.37	1.39	1.61
4	A	729	ALA	CA-CB	-14.37	1.30	1.53
4	A	690	VAL	CA-CB	-14.35	1.34	1.54
4	A	256	GLN	N-CA	14.34	1.63	1.46
4	A	657	LEU	CA-C	-14.34	1.37	1.53
4	A	900	ASP	N-CA	14.34	1.64	1.46
9	H	60	ALA	CA-CB	14.33	1.77	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	C	144	ILE	CA-CB	-14.32	1.34	1.54
5	B	801	LYS	C-O	-14.32	1.07	1.23
5	B	250	PHE	N-CA	14.30	1.64	1.46
5	B	968	VAL	CA-CB	-14.30	1.30	1.54
4	A	1343	ALA	CA-CB	-14.29	1.30	1.53
9	H	32	THR	CA-C	14.26	1.71	1.52
5	B	352	ALA	CA-C	14.25	1.71	1.52
13	L	66	GLN	CA-CB	14.24	1.72	1.53
5	B	733	HIS	CA-CB	14.22	1.76	1.53
10	I	118	ARG	CA-C	14.22	1.69	1.52
4	A	1007	ILE	CA-C	-14.19	1.35	1.52
4	A	746	MET	SD-CE	14.17	2.15	1.79
10	I	77	LYS	CG-CD	14.17	1.95	1.52
4	A	1113	THR	N-CA	-14.17	1.32	1.46
5	B	667	GLN	CA-CB	14.16	1.77	1.53
7	E	152	LYS	CA-CB	14.15	1.70	1.52
9	H	19	ARG	CG-CD	14.14	1.94	1.52
6	C	142	VAL	CA-CB	14.13	1.73	1.54
5	B	473	MET	N-CA	14.12	1.64	1.46
11	J	12	LYS	CA-C	-14.11	1.34	1.52
6	C	238	ILE	CA-CB	-14.10	1.35	1.54
5	B	1177	HIS	CA-CB	14.08	1.71	1.52
10	I	33	SER	CA-C	14.06	1.68	1.52
4	A	317	LYS	CA-C	14.05	1.71	1.52
5	B	275	TYR	CB-CG	14.04	1.82	1.51
5	B	892	LYS	CD-CE	13.99	1.94	1.52
12	K	5	ASP	CA-C	-13.97	1.34	1.53
10	I	37	GLU	CA-C	13.96	1.71	1.52
9	H	83	GLN	CA-C	13.95	1.71	1.52
5	B	325	GLN	CA-C	13.95	1.70	1.53
9	H	52	GLN	CA-CB	13.94	1.77	1.53
4	A	708	MET	SD-CE	13.94	2.14	1.79
7	E	119	SER	CA-CB	13.94	1.77	1.53
10	I	13	MET	CA-C	-13.93	1.36	1.52
7	E	52	ARG	CA-CB	13.93	1.75	1.53
8	F	78	GLN	CA-CB	13.92	1.73	1.53
4	A	596	THR	CA-CB	13.91	1.76	1.53
5	B	292	ILE	CA-CB	-13.90	1.36	1.54
8	F	76	LYS	CG-CD	13.89	1.94	1.52
4	A	512	VAL	CA-CB	-13.89	1.37	1.53
4	A	1175	SER	N-CA	13.87	1.63	1.46
4	A	1335	ILE	CA-C	-13.87	1.36	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	164	LYS	CB-CG	13.85	1.94	1.52
4	A	1161	THR	CA-CB	13.85	1.75	1.53
7	E	34	GLU	CA-C	13.85	1.71	1.52
4	A	1173	HIS	N-CA	13.85	1.71	1.47
13	L	37	LYS	CA-CB	13.85	1.70	1.52
7	E	95	THR	N-CA	13.84	1.64	1.46
4	A	1443	VAL	CA-CB	-13.83	1.36	1.54
4	A	927	VAL	N-CA	13.82	1.62	1.46
9	H	97	MET	SD-CE	13.82	2.14	1.79
4	A	550	LEU	CB-CG	-13.81	1.25	1.53
4	A	162	VAL	CA-C	13.80	1.70	1.52
11	J	5	VAL	CA-CB	-13.80	1.36	1.54
4	A	12	ARG	CA-C	-13.77	1.35	1.52
5	B	580	VAL	CA-CB	-13.77	1.37	1.54
5	B	704	ALA	CA-CB	-13.76	1.31	1.53
4	A	831	THR	CA-C	-13.74	1.33	1.52
4	A	316	GLN	CA-CB	13.74	1.72	1.53
5	B	334	ILE	CA-C	13.73	1.70	1.52
6	C	158	VAL	CA-CB	-13.72	1.35	1.54
4	A	781	ASP	CB-CG	13.71	1.86	1.52
4	A	318	SER	N-CA	13.70	1.63	1.46
4	A	320	ARG	CA-C	13.69	1.70	1.52
10	I	77	LYS	CB-CG	13.68	1.93	1.52
7	E	127	ILE	N-CA	13.68	1.63	1.46
4	A	129	LYS	CB-CG	13.67	1.93	1.52
4	A	126	LEU	N-CA	13.66	1.64	1.46
4	A	1137	ALA	CA-CB	-13.66	1.34	1.54
5	B	310	MET	SD-CE	13.64	2.13	1.79
4	A	1175	SER	CA-C	13.63	1.68	1.52
5	B	315	LYS	CB-CG	13.63	1.93	1.52
5	B	301	ILE	CA-CB	-13.62	1.35	1.54
4	A	121	LEU	CA-C	13.61	1.70	1.52
4	A	582	ILE	N-CA	-13.61	1.33	1.46
4	A	316	GLN	CB-CG	13.60	1.93	1.52
4	A	820	GLY	CA-C	13.60	1.71	1.51
8	F	149	GLU	CA-C	13.60	1.70	1.52
6	C	135	GLN	CA-C	-13.59	1.36	1.52
7	E	90	VAL	CA-CB	13.59	1.73	1.54
5	B	1036	ALA	CA-CB	13.59	1.76	1.53
13	L	64	LEU	CG-CD1	13.59	1.97	1.52
4	A	1277	GLU	CA-C	13.59	1.69	1.52
4	A	1013	ASP	CA-C	13.56	1.71	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	F	129	LYS	CA-C	13.56	1.66	1.53
5	B	204	ILE	CA-CB	-13.55	1.36	1.54
5	B	236	HIS	CA-C	-13.53	1.36	1.52
4	A	315	LEU	CA-CB	13.53	1.76	1.53
6	C	25	VAL	CA-CB	-13.52	1.35	1.55
4	A	406	ILE	CA-CB	-13.51	1.35	1.54
4	A	4	GLN	CA-C	13.50	1.71	1.53
6	C	115	SER	CA-C	-13.49	1.35	1.52
9	H	123	MET	SD-CE	13.48	2.13	1.79
5	B	667	GLN	CG-CD	13.47	1.85	1.52
4	A	1277	GLU	CG-CD	13.45	1.85	1.52
7	E	162	ARG	CG-CD	13.45	1.92	1.52
4	A	834	THR	CA-CB	-13.45	1.30	1.53
4	A	1151	GLU	CA-C	13.44	1.69	1.52
13	L	65	VAL	CA-C	-13.44	1.35	1.52
5	B	36	ALA	CA-CB	-13.40	1.32	1.53
6	C	212	PRO	CA-C	13.39	1.64	1.52
7	E	97	VAL	CA-CB	13.39	1.72	1.54
9	H	15	VAL	CA-C	13.38	1.69	1.52
10	I	101	PHE	CA-C	-13.37	1.36	1.52
5	B	213	ILE	CA-CB	-13.35	1.38	1.54
10	I	116	ASN	CA-C	13.35	1.70	1.52
4	A	981	LEU	CA-C	13.34	1.71	1.53
6	C	70	ILE	CA-CB	-13.33	1.36	1.54
10	I	10	CYS	CA-C	13.33	1.70	1.52
4	A	941	LYS	CG-CD	13.33	1.92	1.52
10	I	8	ARG	CG-CD	13.33	1.92	1.52
4	A	1272	THR	CA-CB	-13.32	1.34	1.53
4	A	1080	THR	CA-C	13.32	1.70	1.52
5	B	826	ALA	CA-C	-13.31	1.37	1.52
4	A	349	ALA	CA-CB	-13.30	1.30	1.53
4	A	499	ALA	CA-CB	-13.30	1.32	1.53
9	H	109	LYS	CB-CG	13.29	1.92	1.52
5	B	709	ASP	CB-CG	13.27	1.85	1.52
5	B	1144	ALA	CA-CB	-13.27	1.31	1.53
5	B	956	THR	CA-CB	-13.25	1.32	1.53
12	K	63	VAL	CA-CB	-13.25	1.38	1.53
4	A	265	LYS	CD-CE	13.25	1.92	1.52
5	B	1016	ALA	CA-C	-13.24	1.34	1.53
5	B	608	ASP	CB-CG	13.23	1.85	1.52
4	A	127	ALA	CA-C	13.23	1.69	1.52
4	A	1004	ASN	CA-C	13.23	1.69	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	758	PHE	CA-C	13.22	1.62	1.53
9	H	16	ASP	CA-C	13.22	1.68	1.52
5	B	43	LEU	CA-C	-13.22	1.34	1.52
9	H	127	GLY	CA-C	13.22	1.70	1.51
4	A	57	ARG	CA-C	13.21	1.70	1.52
7	E	30	ILE	CA-CB	-13.21	1.36	1.54
4	A	620	LYS	CD-CE	13.20	1.92	1.52
4	A	257	ARG	CA-CB	13.19	1.74	1.53
4	A	1125	ALA	CA-CB	13.19	1.75	1.53
4	A	128	ILE	N-CA	13.17	1.62	1.46
10	I	8	ARG	CA-C	13.16	1.70	1.52
6	C	111	THR	CA-CB	13.15	1.73	1.53
9	H	85	GLY	CA-C	13.14	1.70	1.51
4	A	58	LEU	CB-CG	-13.13	1.27	1.53
5	B	944	THR	CA-CB	-13.11	1.32	1.54
5	B	866	TYR	CB-CG	13.10	1.80	1.51
5	B	986	GLN	CG-CD	13.10	1.84	1.52
8	F	112	GLU	CB-CG	13.10	1.91	1.52
12	K	81	TYR	N-CA	13.10	1.63	1.46
5	B	595	ARG	CB-CG	13.10	1.91	1.52
5	B	655	LYS	CB-CG	13.09	1.91	1.52
5	B	713	ALA	CA-C	13.09	1.70	1.52
4	A	620	LYS	CG-CD	13.09	1.91	1.52
4	A	49	LYS	CA-C	13.06	1.60	1.53
9	H	51	ALA	CA-CB	13.05	1.75	1.53
5	B	799	PRO	C-O	-13.04	1.07	1.24
6	C	167	HIS	CA-C	-13.04	1.37	1.52
6	C	131	HIS	CA-C	-13.04	1.36	1.52
4	A	950	GLY	CA-C	13.02	1.65	1.51
5	B	566	LEU	CA-C	-13.00	1.36	1.53
5	B	880	THR	N-CA	12.99	1.62	1.46
12	K	54	ARG	CA-CB	12.99	1.70	1.52
5	B	133	LYS	CA-CB	12.99	1.71	1.53
6	C	214	ASN	N-CA	12.98	1.62	1.46
5	B	734	HIS	CA-CB	12.98	1.75	1.53
5	B	1145	SER	CA-C	-12.98	1.35	1.52
5	B	69	LEU	N-CA	12.97	1.62	1.46
10	I	73	ARG	N-CA	12.97	1.54	1.46
5	B	34	ILE	CA-CB	-12.96	1.39	1.54
5	B	49	ASP	CB-CG	12.93	1.84	1.52
4	A	322	VAL	CB-CG2	12.91	1.95	1.52
4	A	1434	ALA	CA-C	12.91	1.69	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	133	LYS	CB-CG	12.90	1.91	1.52
5	B	851	PHE	CA-C	-12.90	1.36	1.53
5	B	758	PHE	CA-CB	-12.90	1.41	1.52
9	H	19	ARG	CA-C	12.90	1.70	1.52
5	B	861	ASP	CA-C	12.90	1.68	1.52
9	H	59	ILE	CA-CB	-12.89	1.43	1.55
4	A	278	THR	N-CA	12.87	1.62	1.46
4	A	69	THR	CA-C	12.87	1.70	1.52
4	A	47	ARG	CA-C	12.85	1.68	1.52
4	A	317	LYS	CA-CB	12.85	1.75	1.53
5	B	868	MET	CG-SD	12.84	2.12	1.80
5	B	536	VAL	CA-CB	-12.83	1.33	1.55
5	B	658	ILE	CA-CB	-12.83	1.33	1.54
4	A	1064	VAL	CA-CB	-12.82	1.39	1.54
11	J	34	THR	CA-C	-12.80	1.35	1.52
6	C	41	ILE	CA-C	-12.80	1.39	1.52
7	E	45	LYS	CA-C	12.79	1.70	1.52
4	A	864	ILE	CA-CB	-12.78	1.34	1.54
4	A	164	ARG	CA-C	12.77	1.71	1.53
4	A	998	LEU	CG-CD2	12.77	1.94	1.52
7	E	172	GLU	CB-CG	12.77	1.90	1.52
8	F	76	LYS	CA-CB	12.77	1.75	1.53
4	A	64	ASN	CA-C	12.77	1.67	1.52
7	E	97	VAL	CA-C	12.77	1.69	1.52
6	C	30	ALA	CA-CB	-12.76	1.31	1.53
7	E	158	SER	CA-CB	12.76	1.75	1.53
4	A	790	ASP	CB-CG	12.76	1.83	1.52
5	B	986	GLN	CA-C	12.76	1.67	1.53
13	L	49	LYS	CB-CG	12.76	1.90	1.52
7	E	74	ASP	CA-C	12.74	1.69	1.52
11	J	53	HIS	N-CA	12.73	1.62	1.46
4	A	975	HIS	CA-C	12.73	1.73	1.52
4	A	147	VAL	CA-CB	12.72	1.70	1.54
4	A	962	ARG	CA-C	-12.70	1.37	1.53
4	A	756	ILE	CA-CB	-12.69	1.37	1.54
4	A	173	THR	CA-CB	12.68	1.70	1.53
5	B	981	ALA	CA-C	-12.67	1.35	1.52
10	I	83	ASN	CA-C	-12.66	1.38	1.53
4	A	863	VAL	CA-CB	12.66	1.68	1.54
5	B	315	LYS	CA-C	12.65	1.68	1.52
12	K	27	ALA	CA-CB	12.65	1.73	1.53
9	H	86	ASP	CB-CG	12.64	1.83	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	I	65	ASP	C-N	-12.62	1.23	1.33
13	L	42	ARG	CA-C	12.61	1.69	1.52
4	A	559	VAL	CA-CB	-12.61	1.39	1.53
11	J	3	VAL	C-O	-12.60	1.08	1.24
4	A	1361	SER	CA-CB	12.58	1.74	1.53
12	K	113	THR	CA-C	12.57	1.70	1.53
5	B	242	SER	CA-C	-12.56	1.36	1.52
4	A	1393	ASN	CB-CG	12.56	1.83	1.52
4	A	681	GLU	CG-CD	12.55	1.83	1.52
4	A	800	VAL	CA-CB	-12.54	1.39	1.54
4	A	957	PRO	CA-C	-12.54	1.36	1.52
4	A	1231	ASP	CA-CB	12.54	1.72	1.53
5	B	478	GLY	C-O	12.54	1.40	1.23
4	A	905	ASP	N-CA	12.53	1.62	1.46
4	A	1163	ILE	N-CA	-12.53	1.35	1.46
9	H	86	ASP	N-CA	12.53	1.68	1.46
8	F	152	ILE	CA-CB	-12.52	1.38	1.54
4	A	770	VAL	CA-CB	-12.52	1.38	1.54
6	C	41	ILE	C-O	-12.51	1.08	1.24
9	H	128	ASN	N-CA	12.50	1.59	1.46
5	B	1223	ASP	CA-CB	12.50	1.74	1.53
7	E	199	ILE	CA-C	-12.50	1.37	1.52
4	A	1015	VAL	CA-C	-12.49	1.39	1.52
4	A	1324	PRO	CA-C	-12.49	1.30	1.52
8	F	112	GLU	CG-CD	12.49	1.83	1.52
4	A	266	LEU	CA-C	12.46	1.69	1.52
4	A	1204	ASP	CB-CG	12.46	1.83	1.52
5	B	983	ARG	C-O	12.46	1.39	1.24
11	J	58	GLU	CA-C	-12.46	1.35	1.52
5	B	1055	ILE	CA-C	-12.46	1.37	1.52
4	A	1093	LYS	CA-CB	12.45	1.70	1.53
9	H	52	GLN	CB-CG	12.43	1.89	1.52
4	A	1221	LYS	CB-CG	12.43	1.89	1.52
5	B	711	GLU	CA-CB	-12.43	1.33	1.53
5	B	723	VAL	CA-CB	12.41	1.71	1.54
4	A	541	ILE	CA-C	-12.40	1.37	1.52
4	A	898	ARG	CA-C	-12.40	1.36	1.52
10	I	78	CYS	N-CA	12.40	1.62	1.46
11	J	65	PRO	CB-CG	12.40	2.11	1.49
12	K	14	GLU	CA-CB	12.40	1.71	1.52
4	A	409	SER	CA-C	12.40	1.69	1.52
4	A	439	ASN	CA-C	-12.40	1.37	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	670	ILE	CA-C	12.39	1.68	1.52
4	A	1277	GLU	CB-CG	12.38	1.89	1.52
4	A	1259	MET	CA-C	-12.36	1.37	1.52
4	A	539	THR	CA-CB	12.36	1.72	1.53
5	B	484	ASN	N-CA	12.35	1.62	1.45
12	K	20	LYS	CD-CE	12.34	1.89	1.52
4	A	827	THR	CA-CB	12.32	1.73	1.53
7	E	139	ALA	C-O	12.32	1.40	1.24
5	B	100	PRO	CA-C	-12.31	1.37	1.52
5	B	510	LYS	CA-C	12.31	1.66	1.52
10	I	60	GLN	CG-CD	12.30	1.82	1.52
5	B	783	THR	CA-CB	-12.30	1.33	1.53
4	A	269	ILE	CA-CB	-12.28	1.40	1.54
5	B	826	ALA	N-CA	-12.27	1.31	1.46
6	C	201	TRP	CB-CG	-12.27	1.12	1.50
4	A	1126	ALA	CA-C	12.27	1.68	1.53
5	B	250	PHE	CA-CB	12.27	1.68	1.52
4	A	786	HIS	CA-CB	-12.26	1.34	1.53
5	B	856	PHE	CA-CB	-12.24	1.34	1.53
4	A	286	HIS	N-CA	12.22	1.61	1.46
5	B	1022	THR	N-CA	-12.22	1.31	1.46
5	B	235	SER	CA-C	-12.22	1.39	1.52
4	A	1111	MET	N-CA	12.21	1.61	1.46
8	F	106	PRO	CB-CG	12.21	2.10	1.49
4	A	562	THR	CA-C	-12.19	1.40	1.53
11	J	46	CYS	CB-SG	12.19	2.21	1.81
5	B	32	ALA	CA-CB	-12.18	1.33	1.53
4	A	216	VAL	CA-CB	12.18	1.67	1.54
4	A	491	VAL	CA-C	-12.18	1.40	1.52
4	A	977	LYS	N-CA	12.18	1.65	1.46
4	A	287	HIS	N-CA	12.17	1.64	1.46
10	I	29	CYS	CB-SG	12.17	2.21	1.81
13	L	37	LYS	CA-C	12.16	1.68	1.52
5	B	1157	ALA	CA-C	-12.16	1.36	1.52
5	B	799	PRO	N-CD	-12.16	1.30	1.47
7	E	172	GLU	CA-CB	12.16	1.72	1.53
7	E	77	SER	CA-C	12.15	1.69	1.52
8	F	112	GLU	CA-CB	12.15	1.74	1.53
5	B	536	VAL	CA-C	-12.14	1.38	1.52
5	B	240	ILE	CA-CB	-12.14	1.38	1.54
5	B	630	ALA	CA-CB	-12.13	1.34	1.53
4	A	431	LYS	CG-CD	12.12	1.88	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1293	SER	CA-CB	12.12	1.73	1.52
5	B	517	THR	CA-CB	-12.12	1.32	1.53
12	K	56	VAL	CA-CB	-12.12	1.40	1.54
4	A	1438	THR	CA-CB	-12.11	1.33	1.53
4	A	402	ALA	CA-CB	-12.11	1.36	1.54
4	A	941	LYS	CB-CG	12.10	1.88	1.52
5	B	397	ASP	N-CA	12.09	1.61	1.46
6	C	21	ILE	CA-C	-12.09	1.37	1.52
7	E	103	LYS	CA-C	12.08	1.69	1.52
8	F	107	VAL	CA-CB	12.08	1.71	1.54
9	H	63	LEU	CG-CD2	12.07	1.92	1.52
7	E	96	PHE	CA-C	12.06	1.69	1.52
4	A	282	ASN	CA-C	12.05	1.69	1.52
4	A	1363	VAL	CA-CB	-12.03	1.38	1.54
4	A	564	ALA	CA-CB	-12.03	1.34	1.53
10	I	42	LEU	CG-CD2	12.02	1.92	1.52
4	A	1325	THR	N-CA	-12.02	1.30	1.46
4	A	255	SER	N-CA	12.01	1.60	1.46
9	H	84	ALA	CA-C	11.99	1.70	1.52
4	A	104	GLU	CA-C	11.98	1.68	1.52
4	A	749	ALA	CA-CB	-11.98	1.34	1.53
5	B	447	ALA	N-CA	11.98	1.61	1.46
9	H	39	THR	CA-C	11.97	1.66	1.52
7	E	121	MET	CA-C	11.97	1.69	1.52
5	B	655	LYS	CG-CD	11.97	1.88	1.52
7	E	82	PHE	CA-C	11.97	1.68	1.52
5	B	881	ASN	C-N	11.96	1.48	1.33
5	B	982	SER	C-O	-11.96	1.08	1.24
4	A	1230	GLU	CA-C	11.96	1.69	1.53
8	F	128	LYS	CA-C	11.96	1.68	1.52
5	B	954	VAL	CA-C	-11.94	1.37	1.52
4	A	739	ASP	CA-CB	11.94	1.73	1.53
4	A	1393	ASN	CA-CB	11.94	1.73	1.53
5	B	865	LYS	CB-CG	11.94	1.88	1.52
8	F	151	LEU	CA-C	-11.93	1.37	1.52
10	I	116	ASN	CB-CG	11.93	1.81	1.52
5	B	605	ARG	CA-C	-11.92	1.35	1.52
5	B	1059	LEU	CA-C	-11.92	1.37	1.52
11	J	34	THR	CA-CB	-11.91	1.33	1.53
5	B	878	GLN	N-CA	11.89	1.61	1.46
7	E	200	ARG	CA-C	-11.89	1.38	1.52
4	A	971	PHE	CA-C	11.88	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	432	MET	SD-CE	11.88	2.09	1.79
8	F	76	LYS	CB-CG	11.88	1.88	1.52
4	A	1387	HIS	CA-C	-11.87	1.42	1.53
4	A	1109	LYS	CG-CD	11.87	1.88	1.52
13	L	27	LEU	N-CA	11.86	1.61	1.45
4	A	146	MET	SD-CE	11.85	2.09	1.79
4	A	1352	VAL	CA-CB	-11.84	1.41	1.54
6	C	149	LYS	CB-CG	11.84	1.88	1.52
4	A	1209	MET	CG-SD	11.83	2.10	1.80
7	E	69	ILE	CA-CB	-11.83	1.41	1.54
4	A	1428	VAL	CA-C	-11.83	1.36	1.53
11	J	53	HIS	CA-C	-11.82	1.36	1.52
4	A	44	THR	CA-C	11.82	1.68	1.52
12	K	55	LYS	CB-CG	11.80	1.87	1.52
4	A	1109	LYS	CD-CE	11.79	1.87	1.52
5	B	497	ARG	CG-CD	11.79	1.87	1.52
2	T	21	DC	O5'-C5'	11.78	1.78	1.42
5	B	275	TYR	CA-C	11.78	1.68	1.52
5	B	639	ILE	CA-CB	-11.78	1.36	1.54
4	A	209	ASN	N-CA	11.77	1.61	1.46
9	H	19	ARG	CA-CB	11.77	1.73	1.53
4	A	392	VAL	CA-CB	-11.77	1.38	1.54
5	B	354	ASP	CA-CB	11.76	1.68	1.54
5	B	714	GLU	CA-C	11.76	1.67	1.52
5	B	964	VAL	CA-CB	-11.76	1.38	1.54
4	A	345	VAL	CA-CB	-11.76	1.37	1.55
12	K	30	ALA	CA-CB	-11.76	1.32	1.53
4	A	1092	LYS	CB-CG	11.75	1.87	1.52
5	B	454	THR	CA-CB	11.73	1.74	1.53
5	B	706	GLN	CB-CG	11.73	1.87	1.52
5	B	1222	ARG	CA-C	11.71	1.68	1.52
4	A	85	ASP	CA-CB	11.70	1.72	1.53
5	B	805	THR	CA-C	-11.70	1.41	1.53
5	B	1223	ASP	CB-CG	11.68	1.81	1.52
4	A	852	TYR	CA-C	11.66	1.68	1.52
4	A	791	ASP	CA-C	11.66	1.67	1.53
7	E	107	THR	CA-CB	-11.66	1.30	1.53
4	A	1391	ARG	CA-C	11.66	1.69	1.52
6	C	209	TYR	CD2-CE2	11.65	1.73	1.38
5	B	785	TYR	CA-C	-11.65	1.36	1.52
5	B	165	VAL	N-CA	11.64	1.59	1.46
7	E	10	SER	N-CA	11.64	1.59	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	336	ILE	CA-CB	-11.64	1.38	1.54
4	A	476	SER	C-O	-11.64	1.09	1.24
4	A	1256	GLU	CB-CG	11.64	1.87	1.52
9	H	139	ASN	CB-CG	11.63	1.81	1.52
10	I	17	ARG	CA-C	11.62	1.68	1.52
5	B	1187	ASN	CA-C	-11.61	1.38	1.52
7	E	139	ALA	CA-CB	11.60	1.73	1.53
5	B	277	LYS	CB-CG	11.60	1.87	1.52
5	B	870	ILE	CB-CG2	11.59	1.90	1.52
4	A	613	ILE	CA-CB	-11.59	1.36	1.54
9	H	113	ALA	CA-CB	-11.59	1.35	1.53
5	B	476	ARG	CG-CD	11.58	1.87	1.52
4	A	620	LYS	CE-NZ	11.58	1.84	1.49
7	E	54	GLN	CB-CG	11.56	1.87	1.52
5	B	304	ASP	N-CA	11.55	1.59	1.46
5	B	449	ASN	CA-CB	-11.55	1.38	1.52
4	A	685	GLU	CG-CD	11.55	1.80	1.52
4	A	61	ILE	CA-C	11.54	1.67	1.52
5	B	1220	ARG	CB-CG	11.54	1.87	1.52
5	B	1077	THR	CA-CB	-11.53	1.37	1.53
7	E	151	PRO	C-O	11.53	1.39	1.24
4	A	697	ALA	CA-C	-11.52	1.36	1.52
5	B	916	THR	CA-C	-11.52	1.38	1.52
4	A	29	ALA	CA-CB	11.51	1.71	1.53
4	A	321	PRO	CA-C	11.51	1.75	1.52
5	B	1177	HIS	CA-C	11.51	1.68	1.53
4	A	162	VAL	N-CA	11.51	1.60	1.46
4	A	902	LEU	CA-C	11.51	1.68	1.52
5	B	636	PRO	CB-CG	11.51	2.07	1.49
7	E	48	ASP	CA-CB	11.50	1.70	1.53
5	B	55	VAL	CA-CB	11.50	1.70	1.54
5	B	349	ILE	CA-C	11.50	1.66	1.52
12	K	54	ARG	CB-CG	11.50	1.86	1.52
7	E	118	PRO	CA-C	11.50	1.68	1.52
8	F	126	ALA	CA-CB	11.49	1.72	1.53
5	B	1185	CYS	CA-C	11.48	1.68	1.52
6	C	214	ASN	CA-C	11.47	1.68	1.52
13	L	41	SER	CA-CB	11.45	1.68	1.53
9	H	19	ARG	CD-NE	11.45	1.62	1.46
6	C	26	ASP	CA-C	11.45	1.68	1.52
9	H	83	GLN	N-CA	11.44	1.60	1.46
5	B	315	LYS	CD-CE	11.43	1.86	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	E	159	ASP	CB-CG	11.43	1.80	1.52
7	E	62	ALA	C-O	11.42	1.37	1.23
10	I	119	THR	N-CA	11.40	1.61	1.46
4	A	1408	ILE	CA-C	-11.40	1.34	1.52
5	B	169	ARG	CA-C	-11.40	1.38	1.52
7	E	85	GLU	CA-CB	11.40	1.69	1.53
6	C	266	ASP	N-CA	11.40	1.60	1.46
5	B	425	THR	CA-C	-11.39	1.37	1.52
4	A	644	LYS	CA-C	11.39	1.68	1.52
4	A	1423	GLY	CA-C	-11.39	1.44	1.52
10	I	9	ASP	CA-CB	11.39	1.72	1.53
4	A	588	LEU	CG-CD1	11.38	1.90	1.52
4	A	972	HIS	CA-C	11.38	1.68	1.52
4	A	672	ASP	CA-CB	11.37	1.72	1.53
4	A	1121	GLU	N-CA	11.37	1.60	1.45
5	B	646	LEU	N-CA	11.37	1.60	1.46
8	F	74	ILE	C-O	-11.37	1.10	1.24
5	B	883	LEU	CB-CG	11.36	1.76	1.53
4	A	571	LEU	CA-C	-11.36	1.39	1.52
5	B	869	SER	CA-C	11.35	1.68	1.52
5	B	843	GLN	CA-C	-11.34	1.36	1.52
9	H	41	ASP	CA-C	11.34	1.67	1.52
8	F	132	LEU	N-CA	-11.33	1.32	1.45
6	C	7	GLN	CA-CB	-11.33	1.35	1.53
7	E	178	ILE	CA-C	11.32	1.69	1.53
10	I	111	THR	C-O	-11.30	1.09	1.23
4	A	1080	THR	N-CA	11.30	1.60	1.46
5	B	492	LEU	CA-C	-11.30	1.37	1.52
4	A	590	ARG	CA-C	-11.29	1.37	1.52
8	F	155	LEU	CA-C	11.29	1.76	1.52
4	A	1341	ILE	CA-CB	11.28	1.69	1.54
4	A	982	THR	CA-CB	-11.28	1.33	1.53
5	B	353	LYS	N-CA	11.28	1.60	1.46
4	A	641	VAL	CA-CB	-11.27	1.40	1.54
7	E	45	LYS	CG-CD	11.27	1.86	1.52
5	B	532	ALA	CA-CB	11.27	1.78	1.53
5	B	666	TYR	CA-CB	11.27	1.72	1.53
6	C	208	GLU	CA-CB	11.26	1.70	1.53
10	I	43	VAL	CA-CB	-11.26	1.39	1.54
4	A	13	THR	CA-C	-11.26	1.38	1.52
4	A	301	ALA	CA-CB	-11.26	1.37	1.53
4	A	942	PHE	CA-CB	-11.26	1.34	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	739	THR	CA-CB	-11.26	1.35	1.54
11	J	55	ASP	N-CA	11.26	1.61	1.46
13	L	44	ASP	CA-C	11.25	1.68	1.52
9	H	145	ARG	CA-CB	11.25	1.71	1.53
4	A	259	GLU	N-CA	11.24	1.58	1.45
13	L	49	LYS	CG-CD	11.23	1.86	1.52
5	B	477	ALA	CA-CB	11.23	1.72	1.53
5	B	565	PRO	CA-CB	-11.23	1.37	1.53
6	C	104	PHE	CA-C	-11.23	1.39	1.52
4	A	258	GLY	N-CA	11.22	1.57	1.45
4	A	315	LEU	CA-C	11.22	1.67	1.52
4	A	109	HIS	CA-CB	11.21	1.72	1.53
5	B	730	ARG	CB-CG	11.20	1.86	1.52
4	A	1202	MET	CA-C	11.20	1.67	1.52
4	A	1205	LYS	CA-C	11.19	1.67	1.52
4	A	1242	VAL	CB-CG1	11.19	1.89	1.52
4	A	1221	LYS	CA-CB	11.18	1.72	1.53
5	B	887	HIS	CA-C	11.18	1.67	1.52
11	J	43	ARG	CA-C	11.18	1.66	1.52
4	A	616	VAL	CA-CB	-11.18	1.43	1.54
6	C	217	ASP	CB-CG	11.18	1.79	1.52
11	J	14	VAL	CA-CB	-11.17	1.39	1.54
5	B	987	LYS	CD-CE	11.16	1.85	1.52
5	B	1103	ILE	CA-C	-11.15	1.38	1.52
5	B	1188	LYS	CA-C	11.15	1.68	1.52
8	F	76	LYS	CD-CE	11.15	1.85	1.52
4	A	720	ARG	CA-C	-11.15	1.38	1.52
9	H	100	THR	CA-C	11.15	1.66	1.52
5	B	1140	ALA	CA-CB	11.14	1.72	1.53
4	A	1221	LYS	N-CA	11.14	1.60	1.46
12	K	81	TYR	CA-C	11.14	1.67	1.52
4	A	256	GLN	CA-C	11.13	1.65	1.52
4	A	1304	TRP	CA-C	-11.13	1.39	1.52
5	B	325	GLN	CA-CB	11.12	1.68	1.53
5	B	1154	ALA	CA-CB	-11.12	1.37	1.53
5	B	643	ASP	CA-CB	11.12	1.72	1.53
7	E	131	THR	CA-C	11.11	1.67	1.52
4	A	57	ARG	CG-CD	11.11	1.85	1.52
7	E	132	ILE	N-CA	11.11	1.60	1.46
5	B	1008	PRO	CA-C	11.10	1.63	1.53
4	A	941	LYS	CD-CE	11.10	1.85	1.52
7	E	201	LYS	CG-CD	11.10	1.85	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	K	60	ALA	CA-CB	-11.09	1.35	1.53
5	B	347	LYS	CB-CG	11.09	1.85	1.52
4	A	1282	VAL	N-CA	11.08	1.60	1.46
4	A	527	THR	CA-C	-11.07	1.37	1.52
5	B	26	THR	CA-C	11.07	1.66	1.52
2	T	18	DA	O3'-P	-11.06	1.44	1.61
4	A	42	ASP	CB-CG	11.05	1.79	1.52
5	B	409	ALA	CA-CB	-11.05	1.35	1.53
5	B	1092	TYR	CA-CB	-11.04	1.36	1.53
4	A	630	ILE	CA-C	-11.04	1.38	1.52
4	A	1279	ILE	CA-C	-11.04	1.42	1.53
4	A	324	SER	CA-CB	-11.03	1.34	1.53
4	A	1081	LEU	N-CA	11.03	1.67	1.46
4	A	1211	GLN	CA-CB	11.03	1.70	1.53
5	B	122	LEU	CG-CD1	11.02	1.89	1.52
4	A	607	ILE	CA-C	-11.01	1.38	1.52
6	C	4	GLU	CA-CB	11.01	1.72	1.53
4	A	67	CYS	CA-CB	11.01	1.69	1.53
6	C	168	ALA	CA-C	-11.01	1.38	1.52
5	B	69	LEU	CA-CB	11.00	1.69	1.53
9	H	109	LYS	CA-CB	11.00	1.72	1.53
5	B	134	LYS	CB-CG	10.99	1.85	1.52
6	C	264	GLN	CA-C	10.99	1.67	1.52
10	I	68	LEU	CA-C	-10.99	1.38	1.52
4	A	1127	ASP	CB-CG	10.99	1.79	1.52
6	C	222	LYS	CG-CD	10.98	1.85	1.52
4	A	599	SER	C-O	-10.98	1.10	1.24
4	A	886	ILE	CA-C	-10.98	1.39	1.52
4	A	411	ASP	CA-C	10.98	1.66	1.52
5	B	894	ASP	CA-C	10.98	1.67	1.52
4	A	321	PRO	C-N	10.97	1.48	1.33
7	E	3	GLN	CA-CB	10.97	1.72	1.53
5	B	539	LEU	CA-C	-10.97	1.39	1.52
4	A	311	GLN	CA-C	10.96	1.66	1.52
7	E	127	ILE	CA-C	10.95	1.64	1.52
6	C	224	GLN	CA-C	10.95	1.65	1.53
5	B	1117	GLN	CA-C	10.95	1.66	1.52
11	J	29	GLU	CA-CB	10.95	1.68	1.53
5	B	1141	HIS	CA-C	-10.95	1.37	1.52
7	E	150	VAL	CA-CB	10.94	1.67	1.54
8	F	127	GLU	CA-CB	10.94	1.64	1.53
4	A	526	ASP	CA-CB	10.93	1.70	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	H	132	LEU	CB-CG	10.93	1.75	1.53
4	A	81	PHE	CA-CB	10.93	1.70	1.53
12	K	107	THR	CA-CB	10.93	1.71	1.53
4	A	15	LYS	CD-CE	10.92	1.85	1.52
4	A	315	LEU	CB-CG	10.92	1.75	1.53
4	A	892	ALA	CA-C	-10.92	1.38	1.52
5	B	659	ALA	CA-CB	-10.92	1.35	1.53
5	B	1021	MET	SD-CE	10.91	2.06	1.79
5	B	517	THR	CA-C	-10.90	1.37	1.52
4	A	351	THR	CA-C	-10.90	1.40	1.53
4	A	323	LYS	CG-CD	10.89	1.85	1.52
5	B	276	ILE	CA-CB	10.89	1.69	1.54
5	B	347	LYS	CA-CB	10.89	1.70	1.53
6	C	31	ASN	CA-C	-10.89	1.41	1.53
6	C	263	THR	CA-CB	10.88	1.71	1.53
10	I	58	VAL	CA-CB	-10.88	1.41	1.54
9	H	94	ASP	CA-C	10.88	1.67	1.52
6	C	214	ASN	CB-CG	10.85	1.79	1.52
4	A	1121	GLU	CA-C	10.85	1.64	1.53
4	A	1347	ALA	CA-CB	-10.84	1.35	1.53
5	B	847	ASP	CA-C	-10.84	1.39	1.52
12	K	18	LYS	CA-C	-10.84	1.39	1.52
5	B	510	LYS	CA-CB	10.83	1.67	1.53
6	C	50	GLU	CG-CD	10.83	1.79	1.52
12	K	20	LYS	CG-CD	10.82	1.84	1.52
5	B	353	LYS	CG-CD	10.82	1.84	1.52
7	E	162	ARG	CD-NE	10.82	1.61	1.46
4	A	751	SER	C-O	10.81	1.37	1.23
4	A	1444	MET	SD-CE	10.81	2.06	1.79
9	H	91	ASP	CA-C	10.81	1.67	1.52
12	K	60	ALA	CA-C	-10.80	1.39	1.52
5	B	640	VAL	CA-CB	-10.80	1.39	1.54
4	A	274	ILE	CA-C	10.79	1.67	1.52
5	B	483	LEU	CB-CG	-10.79	1.31	1.53
6	C	205	LYS	CB-CG	10.79	1.84	1.52
4	A	1221	LYS	CA-C	10.79	1.67	1.52
4	A	312	PRO	CA-C	10.79	1.67	1.52
4	A	218	ASP	CB-CG	10.78	1.79	1.52
9	H	49	VAL	CA-CB	-10.78	1.47	1.55
4	A	1069	ALA	CA-CB	10.77	1.71	1.53
4	A	43	GLU	CA-C	10.76	1.66	1.52
6	C	78	GLU	CG-CD	10.76	1.78	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	275	SER	CA-C	10.76	1.67	1.52
10	I	7	CYS	CA-C	10.76	1.67	1.52
5	B	732	SER	C-O	10.75	1.36	1.24
5	B	747	MET	SD-CE	-10.75	1.52	1.79
4	A	397	ASN	CA-C	-10.74	1.40	1.52
8	F	152	ILE	CA-C	10.74	1.66	1.52
5	B	1083	ALA	CA-C	-10.74	1.39	1.52
4	A	129	LYS	CA-CB	10.74	1.71	1.53
5	B	1104	HIS	CA-CB	-10.73	1.37	1.53
5	B	245	GLU	N-CA	10.73	1.59	1.46
5	B	1103	ILE	C-O	-10.73	1.11	1.24
6	C	154	LYS	CB-CG	10.73	1.84	1.52
5	B	983	ARG	CA-C	10.73	1.64	1.52
8	F	81	THR	CA-CB	-10.73	1.35	1.53
5	B	347	LYS	CA-C	10.73	1.67	1.52
4	A	1121	GLU	CG-CD	10.72	1.78	1.52
4	A	531	ILE	CB-CG2	10.72	1.88	1.52
4	A	325	ILE	CB-CG2	10.72	1.88	1.52
12	K	10	PHE	CB-CG	-10.72	1.26	1.50
4	A	856	THR	CA-C	-10.71	1.43	1.53
4	A	1118	VAL	CA-CB	10.71	1.70	1.54
7	E	58	MET	CG-SD	10.71	2.07	1.80
5	B	230	ALA	CA-C	10.70	1.66	1.52
8	F	78	GLN	CB-CG	10.70	1.84	1.52
5	B	680	THR	CA-CB	10.70	1.70	1.53
5	B	1106	ARG	CA-C	-10.69	1.39	1.52
12	K	76	GLN	C-O	10.69	1.36	1.24
5	B	412	LEU	CA-CB	-10.67	1.36	1.53
5	B	172	ILE	CA-CB	-10.66	1.41	1.54
4	A	518	LYS	CD-CE	10.66	1.84	1.52
12	K	59	ALA	CA-CB	-10.66	1.36	1.53
5	B	714	GLU	N-CA	10.66	1.59	1.46
12	K	32	VAL	CA-CB	-10.66	1.40	1.54
5	B	191	LYS	CA-C	-10.65	1.39	1.52
4	A	17	VAL	CA-CB	10.65	1.68	1.54
5	B	724	ASP	CA-C	10.65	1.66	1.52
4	A	873	MET	CA-C	10.64	1.65	1.52
4	A	1287	TYR	CA-C	10.64	1.67	1.52
6	C	234	SER	CA-C	-10.64	1.40	1.52
4	A	129	LYS	CG-CD	10.63	1.84	1.52
5	B	367	LEU	CG-CD2	10.63	1.87	1.52
9	H	114	VAL	CA-CB	10.63	1.71	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	J	55	ASP	CB-CG	10.63	1.78	1.52
12	K	55	LYS	CD-CE	10.63	1.84	1.52
10	I	31	THR	CA-CB	-10.62	1.36	1.53
10	I	91	ARG	CD-NE	10.62	1.61	1.46
13	L	27	LEU	CA-C	10.62	1.65	1.52
4	A	1341	ILE	CA-C	-10.61	1.39	1.52
5	B	164	LYS	CA-C	10.61	1.75	1.52
5	B	382	ILE	N-CA	-10.61	1.33	1.46
4	A	790	ASP	CA-CB	10.61	1.69	1.53
7	E	162	ARG	CA-C	10.61	1.67	1.52
4	A	1333	ILE	CA-CB	-10.60	1.42	1.54
5	B	739	THR	CA-C	-10.60	1.38	1.52
9	H	16	ASP	N-CA	10.60	1.57	1.46
4	A	352	VAL	CB-CG2	-10.60	1.17	1.52
4	A	62	ASP	N-CA	10.59	1.59	1.46
5	B	67	SER	CA-CB	10.59	1.71	1.53
5	B	284	ILE	CA-CB	-10.59	1.40	1.54
6	C	240	VAL	CA-CB	-10.58	1.40	1.54
7	E	172	GLU	N-CA	10.58	1.59	1.46
5	B	981	ALA	CA-CB	-10.58	1.35	1.53
4	A	640	GLN	CG-CD	10.58	1.78	1.52
5	B	212	LEU	CA-C	-10.58	1.39	1.52
5	B	241	ARG	CA-CB	10.57	1.66	1.52
4	A	65	LEU	CB-CG	10.57	1.74	1.53
7	E	207	ARG	CG-CD	10.56	1.84	1.52
4	A	733	ALA	CA-CB	-10.56	1.37	1.53
4	A	736	ASN	CB-CG	-10.55	1.25	1.52
7	E	4	GLU	CB-CG	10.55	1.84	1.52
10	I	49	ILE	CA-CB	10.55	1.68	1.54
5	B	226	PHE	CA-C	-10.55	1.39	1.52
5	B	1099	VAL	CA-C	-10.55	1.39	1.52
9	H	52	GLN	CG-CD	10.54	1.78	1.52
4	A	970	THR	CA-CB	10.54	1.71	1.53
5	B	1072	MET	CG-SD	10.54	2.07	1.80
4	A	605	MET	CG-SD	10.54	2.07	1.80
4	A	1146	VAL	CB-CG2	10.54	1.87	1.52
7	E	128	PRO	C-O	-10.54	1.12	1.24
4	A	1266	THR	CA-CB	-10.53	1.36	1.53
5	B	679	TYR	CA-C	10.53	1.66	1.52
4	A	511	ILE	CA-CB	-10.53	1.42	1.54
9	H	79	TRP	N-CA	-10.52	1.33	1.46
5	B	712	PRO	CB-CG	10.51	2.02	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	J	35	ALA	CA-CB	-10.51	1.35	1.53
4	A	701	LEU	CA-C	10.51	1.66	1.52
4	A	1043	ASP	CA-C	10.51	1.67	1.52
10	I	29	CYS	N-CA	10.51	1.59	1.46
4	A	1003	LYS	CG-CD	10.50	1.83	1.52
5	B	393	LYS	CA-C	10.50	1.65	1.52
12	K	20	LYS	CB-CG	10.50	1.83	1.52
5	B	345	LYS	CD-CE	10.50	1.83	1.52
4	A	307	ASP	CA-C	10.50	1.67	1.52
5	B	372	SER	CA-CB	10.50	1.71	1.53
4	A	142	CYS	CA-C	-10.49	1.35	1.52
4	A	450	LEU	CA-C	10.49	1.64	1.53
4	A	842	VAL	CA-CB	-10.49	1.41	1.54
5	B	131	ASP	CA-CB	10.48	1.67	1.53
9	H	111	LEU	CA-CB	10.48	1.70	1.53
5	B	878	GLN	CA-C	10.48	1.66	1.52
7	E	205	SER	N-CA	10.48	1.59	1.46
5	B	287	ARG	CA-C	-10.48	1.39	1.52
5	B	1057	LYS	CB-CG	10.47	1.83	1.52
4	A	739	ASP	CB-CG	10.47	1.78	1.52
5	B	213	ILE	N-CA	-10.47	1.33	1.46
5	B	527	THR	CA-CB	-10.47	1.39	1.54
5	B	515	HIS	N-CA	10.46	1.58	1.46
5	B	230	ALA	CA-CB	10.46	1.70	1.53
5	B	533	CYS	CA-C	-10.46	1.38	1.52
4	A	900	ASP	CB-CG	10.45	1.78	1.52
13	L	44	ASP	CB-CG	10.45	1.78	1.52
5	B	786	ASN	CB-CG	10.45	1.78	1.52
9	H	16	ASP	CA-CB	10.45	1.66	1.53
12	K	113	THR	CA-CB	10.44	1.70	1.53
7	E	97	VAL	N-CA	10.44	1.59	1.46
9	H	3	ASN	CB-CG	10.44	1.78	1.52
4	A	1054	LEU	CA-CB	-10.43	1.35	1.53
7	E	201	LYS	CB-CG	10.43	1.83	1.52
4	A	37	PHE	CB-CG	10.42	1.74	1.50
4	A	530	GLY	CA-C	10.42	1.68	1.51
5	B	368	GLU	CA-CB	10.42	1.70	1.53
5	B	415	GLN	CB-CG	10.42	1.83	1.52
10	I	36	GLU	CG-CD	10.42	1.78	1.52
5	B	123	THR	CA-CB	-10.41	1.39	1.53
1	R	8	G	C3'-O3'	10.41	1.57	1.42
7	E	172	GLU	CG-CD	10.41	1.78	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	E	178	ILE	CA-CB	-10.41	1.38	1.54
4	A	1151	GLU	N-CA	10.41	1.58	1.45
5	B	1072	MET	SD-CE	-10.40	1.53	1.79
4	A	85	ASP	CB-CG	10.39	1.78	1.52
4	A	724	GLU	CG-CD	10.39	1.78	1.52
6	C	186	LEU	CA-CB	-10.39	1.35	1.53
12	K	55	LYS	CG-CD	10.39	1.83	1.52
4	A	1333	ILE	CA-C	10.38	1.65	1.52
9	H	108	SER	CA-C	-10.38	1.38	1.52
6	C	149	LYS	CG-CD	10.38	1.83	1.52
5	B	468	GLU	N-CA	10.38	1.59	1.46
5	B	915	THR	CA-C	-10.38	1.39	1.52
6	C	70	ILE	CA-C	-10.37	1.42	1.52
4	A	796	SER	CA-C	-10.37	1.38	1.52
6	C	234	SER	C-O	-10.36	1.11	1.23
1	R	4	G	P-OP1	10.36	1.69	1.49
4	A	291	GLU	CA-CB	10.36	1.69	1.53
5	B	1224	PHE	N-CA	10.36	1.66	1.46
4	A	49	LYS	CG-CD	10.36	1.83	1.52
7	E	66	GLU	CA-CB	10.36	1.71	1.53
6	C	36	VAL	CA-CB	-10.35	1.43	1.54
5	B	531	GLN	CA-CB	10.35	1.71	1.53
4	A	359	LEU	CA-C	10.35	1.65	1.52
7	E	140	LEU	CA-CB	10.35	1.69	1.54
4	A	935	GLN	N-CA	-10.35	1.33	1.46
5	B	353	LYS	CB-CG	10.34	1.83	1.52
7	E	44	ALA	CA-CB	10.34	1.71	1.53
5	B	222	ILE	CA-C	10.34	1.66	1.52
4	A	1141	THR	CA-CB	10.33	1.71	1.53
5	B	367	LEU	CA-C	10.33	1.66	1.52
5	B	1120	GLU	CA-CB	10.33	1.68	1.53
7	E	127	ILE	CA-CB	10.33	1.67	1.54
11	J	3	VAL	CA-CB	-10.33	1.40	1.54
4	A	532	ARG	CB-CG	10.33	1.83	1.52
5	B	855	PHE	N-CA	-10.32	1.33	1.46
5	B	975	GLN	CA-C	-10.32	1.43	1.53
5	B	429	PHE	CA-CB	10.31	1.71	1.53
4	A	1356	ILE	CA-C	-10.31	1.39	1.52
9	H	63	LEU	CG-CD1	10.31	1.86	1.52
6	C	154	LYS	CD-CE	10.30	1.83	1.52
5	B	1213	THR	CA-C	10.29	1.66	1.53
7	E	15	ALA	CA-CB	-10.29	1.36	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	37	PHE	CA-C	10.29	1.66	1.52
8	F	84	TYR	N-CA	10.28	1.59	1.45
5	B	1074	ASN	CA-C	-10.28	1.39	1.52
5	B	26	THR	CA-CB	-10.28	1.28	1.54
4	A	761	MET	SD-CE	10.27	2.05	1.79
4	A	1206	ASP	CA-CB	10.27	1.66	1.52
12	K	54	ARG	CG-CD	10.27	1.83	1.52
4	A	984	LYS	CD-CE	10.27	1.83	1.52
9	H	63	LEU	CA-C	10.27	1.74	1.52
12	K	20	LYS	CE-NZ	10.26	1.80	1.49
5	B	636	PRO	CG-CD	10.26	1.85	1.50
9	H	37	LYS	CD-CE	10.26	1.83	1.52
6	C	214	ASN	CA-CB	10.25	1.70	1.53
5	B	466	TRP	CE3-CZ3	-10.25	1.07	1.38
12	K	26	LYS	CG-CD	10.25	1.83	1.52
5	B	780	VAL	CA-CB	-10.25	1.42	1.53
6	C	255	VAL	CA-CB	-10.25	1.42	1.54
4	A	734	GLU	CA-C	10.24	1.66	1.52
4	A	1112	LYS	CB-CG	10.24	1.83	1.52
9	H	110	ASP	CB-CG	10.24	1.77	1.52
4	A	518	LYS	CE-NZ	10.23	1.80	1.49
5	B	836	GLU	CA-CB	10.23	1.70	1.53
5	B	294	ASP	CB-CG	10.22	1.77	1.52
10	I	3	THR	CA-CB	10.22	1.70	1.53
12	K	16	GLU	N-CA	10.21	1.59	1.46
4	A	988	LEU	CA-CB	-10.21	1.36	1.53
9	H	114	VAL	CA-C	10.20	1.65	1.52
4	A	652	VAL	CA-C	-10.20	1.39	1.52
4	A	1362	TYR	CD2-CE2	10.20	1.69	1.38
5	B	61	ASP	CA-CB	10.20	1.68	1.53
5	B	227	LYS	CG-CD	10.19	1.83	1.52
5	B	987	LYS	CA-C	10.19	1.66	1.52
9	H	20	TYR	N-CA	10.19	1.59	1.46
7	E	133	GLU	CA-C	10.19	1.66	1.52
4	A	171	GLN	CB-CG	10.18	1.82	1.52
4	A	569	LYS	C-O	-10.18	1.11	1.24
4	A	1290	LYS	CG-CD	10.18	1.82	1.52
4	A	15	LYS	CE-NZ	10.18	1.79	1.49
5	B	892	LYS	CE-NZ	10.18	1.79	1.49
8	F	112	GLU	N-CA	10.18	1.59	1.46
13	L	37	LYS	CG-CD	10.17	1.82	1.52
4	A	46	THR	CA-CB	10.17	1.70	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	302	THR	CA-C	10.17	1.67	1.52
4	A	1108	ALA	CA-C	10.17	1.66	1.52
10	I	27	PHE	CA-C	-10.17	1.39	1.52
4	A	797	LYS	CE-NZ	10.16	1.79	1.49
10	I	91	ARG	CB-CG	10.16	1.82	1.52
7	E	171	LYS	CA-C	10.15	1.64	1.52
4	A	620	LYS	CA-CB	10.15	1.71	1.53
4	A	694	THR	CA-C	10.15	1.66	1.52
5	B	345	LYS	CB-CG	10.14	1.82	1.52
4	A	1042	PHE	CA-C	10.14	1.66	1.52
6	C	20	PHE	CA-C	-10.14	1.39	1.52
4	A	150	THR	CA-CB	10.13	1.69	1.53
4	A	853	ASP	CA-C	10.13	1.66	1.52
4	A	99	ILE	CA-C	10.13	1.65	1.52
7	E	56	LYS	N-CA	10.12	1.59	1.46
5	B	275	TYR	N-CA	10.12	1.59	1.46
5	B	1172	ILE	CA-CB	10.12	1.68	1.54
4	A	934	LYS	CB-CG	10.11	1.82	1.52
5	B	755	ILE	CA-CB	-10.11	1.43	1.54
6	C	154	LYS	CG-CD	10.11	1.82	1.52
5	B	335	GLY	CA-C	10.11	1.70	1.52
5	B	606	LYS	CD-CE	10.11	1.82	1.52
9	H	127	GLY	N-CA	10.11	1.60	1.45
5	B	882	THR	CA-C	10.11	1.66	1.52
5	B	629	ASP	CA-CB	10.10	1.70	1.53
5	B	748	ILE	CA-CB	-10.10	1.41	1.54
12	K	57	LEU	C-O	10.10	1.35	1.24
5	B	345	LYS	CG-CD	10.10	1.82	1.52
12	K	73	LEU	CA-CB	-10.09	1.38	1.53
5	B	436	VAL	CA-CB	10.09	1.68	1.54
6	C	137	LYS	CE-NZ	10.09	1.79	1.49
5	B	887	HIS	CA-CB	10.08	1.70	1.53
5	B	227	LYS	CD-CE	10.08	1.82	1.52
5	B	1047	PHE	N-CA	-10.08	1.33	1.46
4	A	635	ARG	CA-C	-10.07	1.39	1.52
7	E	49	SER	CA-C	10.07	1.66	1.52
6	C	262	LEU	N-CA	10.07	1.58	1.46
4	A	906	HIS	N-CA	10.07	1.60	1.46
9	H	45	GLU	CG-CD	10.07	1.77	1.52
4	A	253	ASN	CA-CB	10.06	1.70	1.53
4	A	532	ARG	N-CA	10.06	1.60	1.46
5	B	523	CYS	CA-C	-10.06	1.38	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	260	ASP	CA-C	-10.05	1.39	1.53
9	H	9	ILE	CA-C	10.05	1.64	1.52
10	I	56	ALA	CA-CB	10.05	1.70	1.53
8	F	105	ALA	CA-C	10.05	1.66	1.52
4	A	516	SER	CA-CB	10.05	1.66	1.53
5	B	1107	ALA	CA-C	-10.04	1.39	1.52
10	I	93	LYS	CG-CD	10.04	1.82	1.52
4	A	254	GLU	CA-CB	10.04	1.70	1.53
6	C	154	LYS	CE-NZ	10.04	1.79	1.49
4	A	212	LYS	CB-CG	10.04	1.82	1.52
4	A	1204	ASP	CA-CB	10.03	1.70	1.53
5	B	531	GLN	CB-CG	10.03	1.82	1.52
12	K	90	ALA	N-CA	-10.03	1.33	1.46
5	B	111	ALA	N-CA	10.02	1.58	1.46
5	B	817	LEU	CA-CB	-10.02	1.37	1.53
5	B	327	ARG	CA-CB	10.02	1.70	1.53
10	I	107	SER	N-CA	10.02	1.59	1.46
4	A	956	LEU	CA-CB	-10.02	1.38	1.53
4	A	1163	ILE	CA-C	-10.01	1.43	1.52
6	C	10	ILE	CA-CB	-10.01	1.41	1.54
4	A	1237	ILE	CA-C	-10.01	1.41	1.52
4	A	836	TYR	CA-C	10.01	1.65	1.52
5	B	1010	LEU	N-CA	-10.01	1.33	1.46
4	A	1142	THR	CB-CG2	10.00	1.85	1.52
5	B	1213	THR	CA-CB	10.00	1.70	1.52
7	E	26	ARG	CA-C	-10.00	1.39	1.52
5	B	987	LYS	CE-NZ	9.99	1.79	1.49
5	B	1060	ARG	CA-C	9.99	1.66	1.52
10	I	13	MET	SD-CE	9.99	2.04	1.79
7	E	75	MET	N-CA	9.99	1.59	1.45
1	R	7	A	C5'-C4'	-9.98	1.36	1.51
4	A	977	LYS	CG-CD	9.98	1.82	1.52
5	B	62	ILE	C-O	-9.98	1.12	1.24
5	B	740	HIS	CA-C	9.98	1.65	1.52
5	B	1207	LEU	CA-C	-9.98	1.39	1.52
4	A	169	ASN	CA-C	9.98	1.66	1.52
5	B	466	TRP	CA-CB	-9.98	1.36	1.53
9	H	91	ASP	N-CA	9.97	1.59	1.46
5	B	134	LYS	CA-CB	9.97	1.73	1.53
5	B	1048	THR	CA-CB	-9.97	1.38	1.53
12	K	114	LEU	CA-CB	9.97	1.73	1.53
4	A	170	THR	CA-CB	9.97	1.68	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1127	ASP	CA-CB	9.97	1.70	1.53
4	A	1163	ILE	CA-CB	-9.97	1.45	1.54
2	T	17	DG	P-OP1	9.96	1.68	1.48
4	A	1329	THR	N-CA	-9.96	1.34	1.46
5	B	433	GLN	CB-CG	9.96	1.82	1.52
4	A	1013	ASP	CB-CG	9.96	1.76	1.52
5	B	791	THR	C-O	-9.96	1.11	1.24
4	A	1003	LYS	CB-CG	9.96	1.82	1.52
11	J	18	TRP	CA-C	-9.96	1.40	1.52
5	B	246	LYS	CA-C	9.95	1.65	1.53
4	A	1006	ILE	CA-CB	9.95	1.68	1.54
4	A	763	ALA	CA-CB	-9.95	1.37	1.53
6	C	42	PRO	CA-CB	-9.94	1.39	1.53
8	F	77	ASP	CA-C	-9.94	1.40	1.52
4	A	747	VAL	CA-CB	-9.94	1.40	1.54
4	A	372	LYS	CB-CG	9.93	1.82	1.52
5	B	729	ILE	CA-CB	-9.93	1.40	1.54
5	B	740	HIS	CA-CB	9.93	1.69	1.53
5	B	1136	ASP	CB-CG	9.93	1.76	1.52
4	A	185	TRP	N-CA	9.93	1.58	1.46
7	E	52	ARG	CB-CG	9.93	1.82	1.52
5	B	528	PRO	CA-CB	-9.93	1.41	1.53
13	L	68	GLU	CG-CD	9.93	1.76	1.52
4	A	474	VAL	CA-CB	-9.92	1.43	1.54
5	B	1095	LEU	CA-C	-9.92	1.40	1.52
5	B	798	TYR	CA-C	9.92	1.65	1.52
4	A	109	HIS	CA-C	9.91	1.66	1.52
5	B	987	LYS	CA-CB	9.91	1.67	1.53
9	H	87	ARG	CA-CB	9.91	1.70	1.53
6	C	36	VAL	CA-C	-9.90	1.40	1.52
8	F	148	VAL	CA-CB	-9.90	1.42	1.54
9	H	133	ASN	N-CA	9.90	1.58	1.46
5	B	188	ASP	CB-CG	9.89	1.76	1.52
5	B	1007	VAL	CA-C	9.89	1.63	1.52
4	A	755	PHE	CA-C	-9.89	1.40	1.52
5	B	430	ARG	CA-C	9.89	1.66	1.52
4	A	66	LYS	CB-CG	9.89	1.82	1.52
5	B	1193	GLN	CA-CB	9.89	1.66	1.53
5	B	1097	HIS	N-CA	9.89	1.58	1.46
9	H	14	GLU	CA-C	9.89	1.64	1.52
4	A	351	THR	CA-CB	-9.89	1.40	1.54
4	A	603	ASN	CA-C	-9.88	1.39	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	822	ASN	CA-C	-9.88	1.43	1.53
5	B	1003	ALA	CA-C	-9.88	1.38	1.52
8	F	140	ASP	CA-CB	9.88	1.68	1.53
4	A	783	THR	CA-CB	-9.87	1.37	1.53
5	B	447	ALA	CA-CB	-9.87	1.36	1.53
4	A	209	ASN	CA-C	9.87	1.66	1.52
5	B	1045	SER	CA-C	-9.87	1.40	1.52
8	F	115	THR	CA-C	9.86	1.62	1.52
5	B	622	LYS	CB-CG	9.86	1.82	1.52
7	E	34	GLU	N-CA	9.86	1.58	1.46
4	A	443	LEU	CA-C	-9.85	1.40	1.52
7	E	16	PHE	CA-C	9.85	1.66	1.52
4	A	855	THR	CA-CB	-9.85	1.36	1.53
5	B	855	PHE	CA-C	-9.84	1.43	1.53
12	K	4	PRO	CA-CB	-9.84	1.39	1.53
6	C	102	GLN	CG-CD	9.83	1.76	1.52
4	A	519	PRO	CA-CB	-9.83	1.40	1.54
4	A	1205	LYS	CA-CB	9.83	1.68	1.53
5	B	429	PHE	CD1-CE1	9.83	1.68	1.38
5	B	666	TYR	CB-CG	9.82	1.73	1.51
9	H	86	ASP	CA-CB	9.82	1.66	1.53
5	B	115	GLN	CG-CD	9.82	1.76	1.52
5	B	706	GLN	CA-C	9.82	1.65	1.52
4	A	978	PRO	CA-C	-9.81	1.38	1.52
5	B	266	ALA	CA-CB	9.81	1.70	1.53
6	C	189	THR	CA-C	-9.81	1.40	1.52
4	A	387	ARG	CA-C	-9.80	1.40	1.52
4	A	917	SER	CA-C	-9.80	1.39	1.52
4	A	1234	GLU	CA-C	9.81	1.65	1.52
13	L	37	LYS	CB-CG	9.81	1.81	1.52
4	A	812	GLU	CG-CD	9.80	1.76	1.52
4	A	991	LYS	CG-CD	9.80	1.81	1.52
4	A	367	PRO	CA-C	-9.79	1.42	1.52
4	A	885	THR	CA-C	9.79	1.66	1.52
4	A	1255	GLU	CA-C	9.79	1.65	1.52
6	C	227	THR	CA-CB	9.79	1.70	1.53
6	C	102	GLN	CB-CG	9.79	1.81	1.52
5	B	1220	ARG	N-CA	9.79	1.58	1.46
5	B	323	VAL	CA-C	9.79	1.65	1.52
5	B	432	MET	N-CA	9.78	1.58	1.46
6	C	260	LEU	CA-C	-9.78	1.39	1.52
5	B	228	LYS	N-CA	-9.78	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	486	GLU	CG-CD	9.78	1.76	1.52
4	A	698	GLN	CA-C	-9.77	1.39	1.52
5	B	798	TYR	C-N	9.77	1.56	1.33
5	B	62	ILE	CA-CB	9.76	1.66	1.54
5	B	94	LYS	CB-CG	9.76	1.81	1.52
9	H	109	LYS	CG-CD	9.76	1.81	1.52
6	C	205	LYS	CG-CD	9.76	1.81	1.52
4	A	130	ASP	N-CA	9.76	1.58	1.46
6	C	120	ILE	CA-CB	-9.76	1.39	1.53
7	E	19	VAL	CA-CB	-9.76	1.42	1.54
10	I	78	CYS	CA-C	-9.76	1.39	1.52
5	B	806	THR	CA-C	-9.75	1.40	1.52
9	H	128	ASN	CA-C	9.75	1.64	1.52
5	B	709	ASP	C-O	9.74	1.36	1.24
5	B	1165	ILE	CA-C	-9.74	1.40	1.52
7	E	50	MET	N-CA	9.74	1.58	1.46
4	A	413	ILE	CA-CB	-9.73	1.42	1.54
4	A	911	SER	CA-CB	9.73	1.69	1.53
5	B	793	ALA	CA-C	-9.73	1.39	1.52
5	B	1077	THR	CA-C	-9.73	1.39	1.52
13	L	50	ASP	CB-CG	9.73	1.76	1.52
4	A	1300	LYS	CA-C	9.73	1.65	1.52
4	A	1015	VAL	CA-CB	-9.72	1.43	1.54
9	H	114	VAL	N-CA	9.72	1.57	1.46
8	F	122	MET	SD-CE	9.72	2.03	1.79
11	J	59	LYS	CA-C	-9.72	1.39	1.52
2	T	22	DT	P-OP2	9.72	1.67	1.48
12	K	24	ASP	N-CA	9.72	1.57	1.46
7	E	94	LYS	CA-C	9.71	1.66	1.52
4	A	492	PRO	CA-C	-9.71	1.40	1.52
4	A	1047	SER	CA-CB	-9.71	1.37	1.53
5	B	366	GLN	CA-C	9.70	1.65	1.52
4	A	340	LEU	CA-C	-9.70	1.39	1.52
9	H	37	LYS	CG-CD	9.69	1.81	1.52
4	A	477	PRO	C-O	-9.68	1.11	1.24
4	A	1320	PRO	CA-CB	-9.68	1.41	1.54
5	B	622	LYS	CD-CE	9.68	1.81	1.52
4	A	1289	ARG	CA-C	-9.68	1.40	1.52
7	E	180	ARG	CD-NE	9.68	1.59	1.46
5	B	28	GLU	N-CA	9.68	1.58	1.46
5	B	235	SER	N-CA	-9.68	1.37	1.46
4	A	440	ASP	CA-CB	9.67	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	C	222	LYS	CB-CG	9.67	1.81	1.52
7	E	34	GLU	C-O	9.66	1.36	1.24
4	A	49	LYS	N-CA	9.66	1.54	1.46
4	A	592	ASP	CB-CG	9.65	1.76	1.52
5	B	322	PHE	CA-CB	9.65	1.69	1.53
4	A	184	SER	CA-C	9.65	1.65	1.52
6	C	84	ARG	CA-C	9.64	1.65	1.52
7	E	4	GLU	CG-CD	9.64	1.76	1.52
4	A	1374	VAL	CA-CB	-9.63	1.43	1.54
5	B	772	ALA	CA-CB	-9.63	1.39	1.54
4	A	98	LYS	CB-CG	9.63	1.81	1.52
4	A	985	ASP	CA-C	9.62	1.65	1.52
4	A	1147	THR	CA-C	-9.62	1.39	1.52
4	A	1243	VAL	CA-C	9.62	1.73	1.52
4	A	967	ALA	CA-CB	-9.62	1.37	1.53
6	C	174	ALA	CA-CB	9.61	1.69	1.53
4	A	461	LYS	CA-C	-9.61	1.43	1.53
4	A	1217	LYS	CB-CG	9.61	1.81	1.52
9	H	145	ARG	CA-C	9.61	1.63	1.52
4	A	722	LEU	CB-CG	-9.60	1.34	1.53
4	A	934	LYS	CG-CD	9.60	1.81	1.52
4	A	1386	ARG	CA-C	9.60	1.65	1.52
5	B	686	ASN	CA-C	-9.60	1.39	1.52
4	A	126	LEU	CA-C	9.60	1.65	1.52
7	E	171	LYS	CB-CG	9.60	1.81	1.52
4	A	934	LYS	CD-CE	9.60	1.81	1.52
9	H	80	ARG	CG-CD	9.59	1.81	1.52
5	B	1220	ARG	CA-CB	9.59	1.69	1.53
4	A	876	ALA	CA-CB	9.59	1.69	1.53
5	B	1099	VAL	CA-CB	-9.59	1.42	1.54
4	A	1403	GLU	CA-C	9.58	1.66	1.52
7	E	123	LEU	CA-C	9.58	1.65	1.53
5	B	743	ILE	CA-CB	-9.58	1.42	1.54
4	A	1293	SER	CA-C	9.58	1.65	1.53
12	K	50	LEU	CA-CB	-9.57	1.37	1.53
9	H	137	GLN	CA-C	-9.57	1.41	1.52
4	A	137	ALA	CA-CB	-9.56	1.38	1.53
4	A	507	VAL	C-N	-9.56	1.22	1.34
4	A	67	CYS	CB-SG	9.56	2.12	1.81
5	B	881	ASN	CB-CG	9.56	1.75	1.52
4	A	372	LYS	CG-CD	9.56	1.81	1.52
1	R	1	A	O3'-P	-9.55	1.46	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	880	LYS	CD-CE	9.55	1.81	1.52
5	B	635	ARG	C-O	-9.55	1.11	1.24
4	A	435	HIS	N-CA	-9.55	1.33	1.46
9	H	139	ASN	CA-CB	9.55	1.69	1.53
12	K	34	THR	CA-C	9.55	1.66	1.53
4	A	1231	ASP	CB-CG	9.55	1.75	1.52
5	B	585	VAL	CA-C	9.54	1.64	1.52
5	B	270	LYS	CA-C	-9.54	1.40	1.52
9	H	100	THR	N-CA	9.54	1.57	1.45
5	B	568	ASP	CB-CG	9.54	1.75	1.52
5	B	893	LEU	CA-C	-9.53	1.41	1.52
5	B	121	ASN	CA-C	-9.53	1.40	1.52
4	A	1336	MET	CG-SD	-9.52	1.56	1.80
4	A	722	LEU	CA-C	-9.52	1.40	1.52
4	A	1003	LYS	CD-CE	9.52	1.81	1.52
9	H	113	ALA	CA-C	9.52	1.65	1.52
10	I	22	ASN	CA-C	9.52	1.65	1.52
12	K	28	PRO	CA-C	9.52	1.66	1.52
4	A	644	LYS	CD-CE	9.51	1.80	1.52
4	A	1299	VAL	CB-CG1	9.51	1.83	1.52
4	A	1443	VAL	CA-C	-9.51	1.41	1.52
9	H	89	LEU	CG-CD2	9.51	1.83	1.52
5	B	170	LEU	N-CA	-9.50	1.37	1.46
7	E	116	ILE	CA-CB	9.50	1.67	1.54
4	A	904	THR	CA-C	9.49	1.65	1.52
5	B	91	SER	N-CA	9.49	1.58	1.46
5	B	133	LYS	CG-CD	9.49	1.80	1.52
11	J	5	VAL	N-CA	-9.49	1.34	1.46
6	C	121	VAL	CB-CG1	9.49	1.83	1.52
6	C	72	LEU	CB-CG	-9.48	1.34	1.53
5	B	1057	LYS	CG-CD	9.48	1.80	1.52
7	E	23	VAL	CA-C	-9.48	1.40	1.52
11	J	53	HIS	CA-CB	-9.48	1.37	1.53
4	A	57	ARG	N-CA	9.48	1.58	1.46
4	A	991	LYS	CB-CG	9.48	1.80	1.52
5	B	51	PHE	CA-C	-9.47	1.41	1.52
7	E	98	ILE	CA-C	9.47	1.64	1.52
12	K	85	ASP	CB-CG	9.47	1.75	1.52
5	B	66	ASP	CA-C	9.46	1.65	1.52
5	B	777	ALA	CA-CB	-9.46	1.38	1.53
4	A	75	ASN	N-CA	9.46	1.58	1.46
7	E	18	THR	CA-CB	-9.46	1.38	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	763	ALA	CA-C	9.46	1.59	1.53
5	B	1101	ASP	CA-C	9.45	1.65	1.52
10	I	10	CYS	CB-SG	9.46	2.12	1.81
5	B	327	ARG	CB-CG	9.45	1.80	1.52
5	B	655	LYS	CA-CB	9.45	1.69	1.53
5	B	802	PRO	CA-C	9.45	1.64	1.52
5	B	476	ARG	N-CA	9.44	1.58	1.46
4	A	368	LYS	CA-C	-9.44	1.40	1.52
5	B	787	VAL	CA-C	-9.44	1.40	1.52
4	A	1176	LEU	CB-CG	9.44	1.72	1.53
4	A	408	ASP	CB-CG	9.43	1.75	1.52
5	B	1172	ILE	CA-C	9.43	1.64	1.52
5	B	367	LEU	CA-CB	9.43	1.69	1.53
5	B	429	PHE	CD2-CE2	9.43	1.67	1.38
5	B	622	LYS	CG-CD	9.43	1.80	1.52
12	K	17	SER	CA-CB	9.43	1.68	1.53
13	L	56	LEU	N-CA	9.43	1.58	1.46
10	I	8	ARG	CA-CB	9.42	1.69	1.53
8	F	94	LEU	CG-CD1	9.42	1.83	1.52
5	B	909	ASP	CA-C	-9.41	1.40	1.52
12	K	46	ILE	CA-CB	-9.41	1.43	1.54
5	B	666	TYR	CA-C	9.41	1.65	1.52
5	B	368	GLU	CG-CD	9.41	1.75	1.52
4	A	925	LEU	CA-C	-9.40	1.44	1.52
4	A	975	HIS	CA-CB	9.40	1.64	1.53
5	B	595	ARG	CA-CB	9.40	1.69	1.53
6	C	226	ASP	CA-C	-9.40	1.41	1.52
4	A	408	ASP	N-CA	9.40	1.58	1.46
5	B	896	ASP	CA-CB	9.40	1.68	1.53
9	H	84	ALA	N-CA	9.40	1.59	1.46
5	B	473	MET	CA-CB	9.39	1.69	1.53
4	A	1176	LEU	N-CA	9.39	1.64	1.46
6	C	220	ASP	CA-C	9.39	1.65	1.52
4	A	977	LYS	CB-CG	9.39	1.80	1.52
5	B	1185	CYS	CB-SG	9.39	2.12	1.81
5	B	758	PHE	N-CA	9.38	1.54	1.46
5	B	973	ILE	CA-CB	9.38	1.66	1.54
7	E	180	ARG	N-CA	9.38	1.57	1.46
4	A	815	PHE	CA-CB	-9.38	1.38	1.53
5	B	433	GLN	CA-CB	9.37	1.68	1.53
6	C	54	ASN	CA-C	-9.38	1.43	1.53
4	A	593	GLU	CG-CD	9.37	1.75	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	617	VAL	CA-CB	-9.37	1.43	1.54
5	B	250	PHE	CB-CG	9.37	1.72	1.50
10	I	93	LYS	CB-CG	9.37	1.80	1.52
4	A	590	ARG	CG-CD	9.37	1.80	1.52
5	B	868	MET	CB-CG	9.36	1.80	1.52
5	B	241	ARG	CG-CD	9.36	1.80	1.52
9	H	89	LEU	CA-CB	9.36	1.69	1.53
6	C	230	MET	SD-CE	-9.35	1.56	1.79
5	B	540	SER	CA-CB	-9.35	1.38	1.53
5	B	700	SER	CA-CB	-9.35	1.40	1.53
12	K	64	GLU	N-CA	-9.35	1.34	1.46
6	C	208	GLU	CG-CD	9.35	1.75	1.52
5	B	567	GLU	CG-CD	9.34	1.75	1.52
4	A	1384	VAL	C-O	-9.34	1.12	1.24
5	B	275	TYR	CD1-CE1	9.34	1.66	1.38
4	A	367	PRO	CA-CB	-9.33	1.43	1.54
5	B	996	ARG	CA-CB	-9.33	1.37	1.53
5	B	1013	ASN	C-N	-9.33	1.25	1.33
5	B	267	ARG	CA-C	-9.32	1.41	1.52
5	B	565	PRO	CA-C	-9.32	1.39	1.52
10	I	29	CYS	CA-C	9.32	1.66	1.52
5	B	1224	PHE	CB-CG	9.32	1.72	1.50
5	B	564	GLU	CA-C	9.32	1.64	1.52
5	B	642	ASP	N-CA	9.32	1.58	1.46
6	C	156	THR	CA-CB	-9.32	1.42	1.53
7	E	36	GLU	CA-C	9.31	1.65	1.52
4	A	1122	PRO	CA-C	9.31	1.65	1.52
4	A	618	GLU	CA-C	9.30	1.63	1.53
5	B	595	ARG	CA-C	9.30	1.65	1.52
5	B	873	THR	CA-C	-9.30	1.41	1.52
4	A	64	ASN	N-CA	9.30	1.57	1.46
4	A	4	GLN	N-CA	9.30	1.59	1.46
5	B	858	SER	CA-C	-9.30	1.41	1.52
7	E	138	ALA	CA-C	9.30	1.65	1.52
4	A	976	THR	CB-CG2	9.30	1.83	1.52
5	B	1007	VAL	CA-CB	-9.29	1.42	1.54
4	A	1299	VAL	CA-C	9.29	1.61	1.52
7	E	198	ILE	CA-CB	-9.29	1.44	1.55
5	B	570	VAL	CB-CG2	9.29	1.83	1.52
5	B	1193	GLN	CG-CD	9.29	1.75	1.52
5	B	680	THR	CA-C	-9.29	1.41	1.52
9	H	136	LYS	CB-CG	9.28	1.80	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	863	VAL	CB-CG1	9.28	1.83	1.52
5	B	131	ASP	CB-CG	9.28	1.75	1.52
4	A	291	GLU	CA-C	9.27	1.64	1.52
8	F	155	LEU	CA-CB	9.27	1.72	1.53
5	B	1065	GLN	CA-C	-9.27	1.41	1.52
4	A	242	PRO	CA-C	-9.27	1.43	1.52
7	E	207	ARG	CD-NE	9.27	1.59	1.46
4	A	294	SER	CA-C	-9.26	1.41	1.52
13	L	42	ARG	CG-CD	9.26	1.80	1.52
4	A	284	ALA	CA-C	9.26	1.64	1.52
4	A	925	LEU	CG-CD2	9.26	1.83	1.52
4	A	748	MET	CA-C	-9.25	1.40	1.52
5	B	70	ILE	CA-C	9.25	1.72	1.52
9	H	17	PRO	CA-C	9.25	1.65	1.52
4	A	363	GLN	C-O	9.25	1.35	1.23
4	A	856	THR	CA-CB	9.25	1.67	1.52
4	A	217	LYS	CB-CG	9.24	1.80	1.52
4	A	1173	HIS	C-N	9.24	1.46	1.33
4	A	1350	LYS	CG-CD	9.24	1.80	1.52
6	C	217	ASP	CA-CB	9.24	1.65	1.53
4	A	628	GLY	CA-C	-9.24	1.38	1.51
4	A	53	LEU	N-CA	9.24	1.57	1.45
5	B	1220	ARG	CA-C	9.24	1.65	1.52
9	H	131	ASN	CB-CG	9.23	1.75	1.52
6	C	173	ALA	CA-CB	9.23	1.69	1.53
10	I	3	THR	CB-CG2	9.23	1.83	1.52
4	A	1111	MET	SD-CE	9.23	2.02	1.79
5	B	426	LYS	CD-CE	9.23	1.80	1.52
4	A	1057	VAL	CB-CG1	9.22	1.82	1.52
5	B	122	LEU	CA-CB	-9.22	1.38	1.53
5	B	303	TYR	CA-CB	9.22	1.69	1.53
7	E	162	ARG	CA-CB	9.22	1.69	1.53
7	E	52	ARG	CA-C	9.21	1.64	1.52
5	B	950	ASP	CB-CG	9.21	1.75	1.52
5	B	292	ILE	CA-C	9.19	1.62	1.52
5	B	65	GLU	N-CA	9.19	1.58	1.46
5	B	463	THR	N-CA	-9.19	1.34	1.46
10	I	87	GLN	CD-NE2	9.19	1.52	1.33
4	A	973	ILE	CA-CB	9.19	1.67	1.54
4	A	991	LYS	CD-CE	9.19	1.80	1.52
6	C	137	LYS	CD-CE	9.18	1.80	1.52
5	B	524	PRO	C-O	-9.18	1.13	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	F	78	GLN	CA-C	9.18	1.65	1.53
7	E	52	ARG	CG-CD	9.17	1.79	1.52
5	B	818	PRO	CA-CB	-9.17	1.40	1.53
7	E	63	ASN	CA-C	9.17	1.64	1.52
4	A	49	LYS	CD-CE	9.16	1.79	1.52
4	A	299	HIS	CA-C	9.16	1.65	1.52
13	L	57	LEU	CA-CB	-9.16	1.37	1.53
5	B	509	ALA	CA-CB	9.16	1.82	1.52
5	B	706	GLN	CG-CD	9.16	1.75	1.52
5	B	1052	VAL	CA-CB	9.15	1.65	1.54
5	B	1084	GLN	C-O	-9.15	1.12	1.23
9	H	136	LYS	CA-CB	9.15	1.74	1.53
5	B	1189	ILE	N-CA	9.14	1.54	1.46
10	I	52	ILE	N-CA	9.14	1.57	1.46
4	A	545	GLN	CA-C	9.14	1.65	1.52
5	B	1069	PHE	C-O	9.13	1.35	1.23
9	H	9	ILE	CA-CB	9.13	1.65	1.54
12	K	102	LYS	CA-C	-9.12	1.41	1.52
4	A	540	PHE	CA-C	9.12	1.64	1.52
4	A	81	PHE	N-CA	9.12	1.57	1.46
5	B	1215	ARG	N-CA	-9.12	1.34	1.46
7	E	37	LEU	N-CA	9.12	1.58	1.46
12	K	74	ARG	C-O	9.12	1.34	1.24
4	A	17	VAL	CB-CG1	9.11	1.82	1.52
6	C	4	GLU	CG-CD	9.11	1.74	1.52
4	A	945	GLU	CB-CG	9.11	1.79	1.52
5	B	174	LEU	CB-CG	-9.11	1.35	1.53
4	A	286	HIS	CB-CG	9.10	1.62	1.50
4	A	712	GLU	CG-CD	9.10	1.74	1.52
5	B	133	LYS	N-CA	9.10	1.56	1.46
5	B	690	VAL	CA-C	-9.10	1.41	1.52
5	B	934	LYS	CA-C	9.10	1.64	1.53
4	A	45	GLN	N-CA	9.09	1.57	1.46
4	A	479	ASN	CA-C	-9.09	1.40	1.52
4	A	1314	SER	CA-C	-9.09	1.40	1.52
10	I	4	PHE	CB-CG	-9.09	1.29	1.50
5	B	620	ARG	CB-CG	9.08	1.79	1.52
7	E	65	THR	CA-C	9.08	1.64	1.52
5	B	714	GLU	CA-CB	9.08	1.65	1.53
5	B	707	PRO	CA-C	9.07	1.65	1.52
4	A	871	ASP	CA-C	-9.07	1.41	1.52
12	K	53	ASP	CB-CG	9.07	1.74	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	11	LEU	CA-C	-9.06	1.42	1.52
4	A	630	ILE	CA-CB	-9.06	1.42	1.54
5	B	655	LYS	CD-CE	9.06	1.79	1.52
4	A	40	THR	CA-C	-9.05	1.45	1.52
4	A	353	ILE	CA-CB	-9.05	1.42	1.55
5	B	354	ASP	CB-CG	9.06	1.74	1.52
5	B	468	GLU	CG-CD	9.05	1.74	1.52
5	B	1220	ARG	CG-CD	9.05	1.79	1.52
10	I	98	VAL	CA-CB	-9.05	1.43	1.54
4	A	984	LYS	CE-NZ	9.05	1.76	1.49
10	I	20	LYS	N-CA	9.04	1.57	1.46
4	A	1078	GLN	CA-C	-9.04	1.39	1.52
13	L	58	LYS	CA-C	-9.04	1.40	1.52
13	L	68	GLU	CB-CG	9.04	1.79	1.52
4	A	11	LEU	CG-CD2	9.04	1.82	1.52
4	A	590	ARG	CB-CG	9.04	1.79	1.52
4	A	1337	GLU	CG-CD	9.04	1.74	1.52
5	B	751	VAL	CA-CB	-9.04	1.42	1.54
10	I	36	GLU	CA-CB	9.04	1.71	1.54
8	F	138	LEU	C-O	-9.04	1.12	1.23
5	B	955	THR	N-CA	-9.03	1.34	1.46
5	B	951	GLN	CG-CD	9.03	1.74	1.52
4	A	523	ILE	CA-CB	-9.03	1.42	1.54
5	B	502	ILE	CA-CB	9.03	1.78	1.54
13	L	42	ARG	N-CA	9.02	1.57	1.46
5	B	692	TYR	CA-CB	9.02	1.65	1.53
6	C	32	SER	CA-C	-9.01	1.39	1.52
4	A	267	ALA	CA-CB	-9.01	1.38	1.53
10	I	34	TYR	CA-C	-9.01	1.40	1.52
4	A	1391	ARG	CG-CD	9.00	1.79	1.52
4	A	83	HIS	CA-CB	-9.00	1.38	1.53
4	A	1300	LYS	CD-CE	9.00	1.79	1.52
7	E	186	LEU	CG-CD2	9.00	1.82	1.52
5	B	397	ASP	CB-CG	8.99	1.74	1.52
13	L	33	GLU	CA-CB	8.99	1.67	1.53
5	B	470	LYS	CE-NZ	8.99	1.76	1.49
4	A	457	ALA	N-CA	-8.99	1.34	1.46
6	C	7	GLN	N-CA	8.99	1.57	1.46
5	B	723	VAL	N-CA	8.98	1.57	1.46
5	B	936	ASP	CA-C	-8.98	1.41	1.52
6	C	201	TRP	CA-CB	-8.98	1.40	1.53
10	I	93	LYS	CA-CB	8.98	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	482	VAL	CA-C	8.98	1.64	1.52
7	E	150	VAL	N-CA	-8.98	1.38	1.46
5	B	334	ILE	CA-CB	-8.97	1.42	1.54
4	A	978	PRO	CA-CB	-8.97	1.41	1.53
4	A	1109	LYS	CA-CB	8.97	1.68	1.53
4	A	929	LEU	CG-CD1	8.96	1.82	1.52
4	A	983	ILE	CA-CB	-8.96	1.42	1.54
5	B	330	ALA	CA-CB	8.96	1.68	1.53
10	I	23	ASN	N-CA	8.96	1.57	1.46
4	A	387	ARG	CG-CD	8.96	1.79	1.52
5	B	130	VAL	C-O	-8.96	1.12	1.23
7	E	50	MET	CA-C	8.96	1.64	1.52
4	A	1294	PRO	CB-CG	8.95	1.94	1.49
5	B	116	GLU	CA-C	8.94	1.64	1.52
4	A	54	ASN	CA-C	8.94	1.64	1.52
4	A	637	LYS	C-O	-8.94	1.13	1.24
4	A	275	SER	CA-CB	8.93	1.68	1.53
4	A	368	LYS	CD-CE	8.92	1.79	1.52
5	B	590	HIS	CA-CB	-8.92	1.39	1.53
5	B	1222	ARG	CG-CD	8.92	1.79	1.52
4	A	1435	PRO	CA-C	8.91	1.65	1.52
5	B	521	LEU	CA-C	-8.91	1.40	1.52
5	B	1220	ARG	CD-NE	8.91	1.58	1.46
9	H	131	ASN	CA-CB	8.91	1.68	1.53
9	H	79	TRP	CB-CG	-8.91	1.22	1.50
9	H	90	ALA	CA-CB	8.91	1.68	1.53
12	K	52	ASN	CA-C	8.90	1.64	1.52
4	A	1104	ILE	CB-CG2	-8.90	1.23	1.52
9	H	25	ARG	C-O	8.90	1.34	1.23
11	J	59	LYS	CD-CE	8.90	1.79	1.52
5	B	1120	GLU	CG-CD	8.89	1.74	1.52
4	A	945	GLU	CG-CD	8.89	1.74	1.52
4	A	1176	LEU	CA-CB	8.89	1.71	1.53
4	A	337	ARG	CG-CD	8.89	1.79	1.52
5	B	730	ARG	CG-CD	8.89	1.79	1.52
6	C	152	GLU	CG-CD	8.89	1.74	1.52
7	E	11	ARG	CA-C	8.88	1.63	1.52
4	A	898	ARG	CB-CG	8.88	1.79	1.52
6	C	264	GLN	N-CA	8.88	1.57	1.46
11	J	43	ARG	N-CA	8.88	1.56	1.46
5	B	471	LYS	N-CA	8.87	1.57	1.46
9	H	106	GLU	CA-CB	8.87	1.64	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	70	CYS	N-CA	8.87	1.57	1.46
5	B	166	PHE	CA-C	-8.87	1.41	1.52
6	C	143	LEU	N-CA	-8.87	1.34	1.46
4	A	259	GLU	CA-C	8.87	1.65	1.53
4	A	87	ALA	N-CA	8.86	1.56	1.45
4	A	101	LYS	CG-CD	8.86	1.79	1.52
5	B	108	VAL	N-CA	8.86	1.57	1.46
5	B	771	SER	CA-C	-8.86	1.40	1.52
4	A	777	PHE	C-O	8.86	1.34	1.23
12	K	57	LEU	CG-CD1	8.86	1.81	1.52
4	A	440	ASP	CA-C	8.86	1.64	1.52
7	E	117	THR	N-CA	8.85	1.58	1.46
7	E	3	GLN	CB-CG	8.85	1.78	1.52
4	A	1320	PRO	CA-C	8.85	1.61	1.52
5	B	870	ILE	N-CA	8.85	1.57	1.46
9	H	81	PRO	N-CA	8.85	1.64	1.46
5	B	629	ASP	CB-CG	8.84	1.74	1.52
7	E	131	THR	CA-CB	8.84	1.68	1.53
7	E	152	LYS	CG-CD	8.84	1.78	1.52
4	A	27	VAL	CA-CB	-8.84	1.42	1.54
4	A	460	VAL	CA-CB	-8.84	1.43	1.54
5	B	595	ARG	NE-CZ	8.84	1.42	1.33
8	F	111	LEU	CA-C	-8.84	1.40	1.52
4	A	461	LYS	CB-CG	8.83	1.78	1.52
4	A	57	ARG	CB-CG	8.83	1.78	1.52
4	A	254	GLU	CA-C	8.83	1.64	1.52
4	A	237	THR	CB-CG2	8.83	1.81	1.52
6	C	222	LYS	CD-CE	8.83	1.78	1.52
4	A	323	LYS	CA-C	8.82	1.64	1.52
4	A	717	ASN	C-O	-8.82	1.14	1.24
4	A	66	LYS	CG-CD	8.82	1.78	1.52
4	A	217	LYS	CA-CB	8.82	1.69	1.53
5	B	1074	ASN	CA-CB	-8.82	1.41	1.53
4	A	1081	LEU	CA-CB	8.82	1.71	1.53
10	I	119	THR	CA-CB	8.82	1.67	1.53
4	A	1298	TYR	CA-C	8.82	1.64	1.52
5	B	873	THR	CA-CB	8.82	1.70	1.53
6	C	154	LYS	CA-C	8.82	1.64	1.53
9	H	146	ARG	CG-CD	8.82	1.78	1.52
4	A	537	ARG	N-CA	8.81	1.57	1.46
4	A	1203	ASN	CA-C	8.81	1.64	1.52
4	A	68	GLN	N-CA	8.81	1.57	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	667	GLN	N-CA	8.81	1.57	1.46
5	B	786	ASN	CG-OD1	8.80	1.40	1.23
4	A	1214	GLU	CG-CD	8.80	1.74	1.52
4	A	1007	ILE	N-CA	-8.79	1.35	1.46
7	E	163	GLU	CA-C	-8.79	1.42	1.52
4	A	593	GLU	CA-CB	8.79	1.68	1.53
4	A	679	ILE	CA-C	-8.79	1.41	1.52
5	B	576	ASP	N-CA	8.79	1.57	1.46
4	A	833	GLU	CA-CB	8.79	1.67	1.53
1	R	4	G	C3'-O3'	8.78	1.55	1.42
4	A	36	ARG	CB-CG	8.77	1.78	1.52
9	H	111	LEU	CA-C	8.77	1.62	1.52
5	B	319	GLU	CG-CD	8.76	1.74	1.52
1	R	5	A	P-O5'	8.76	1.72	1.59
4	A	209	ASN	CA-CB	8.76	1.68	1.53
5	B	393	LYS	CG-CD	8.76	1.78	1.52
4	A	542	GLU	N-CA	-8.76	1.35	1.45
4	A	1258	HIS	CA-C	8.75	1.64	1.52
5	B	108	VAL	CB-CG1	8.75	1.81	1.52
5	B	1224	PHE	CA-CB	8.74	1.71	1.53
11	J	50	ILE	CA-CB	8.74	1.67	1.54
5	B	530	GLY	CA-C	8.74	1.64	1.51
4	A	898	ARG	CG-CD	8.73	1.78	1.52
4	A	748	MET	SD-CE	8.73	2.01	1.79
5	B	481	GLN	CA-C	-8.73	1.42	1.52
8	F	154	ASP	CB-CG	8.73	1.73	1.52
4	A	258	GLY	CA-C	8.73	1.61	1.51
7	E	75	MET	CG-SD	8.73	2.02	1.80
10	I	120	GLN	N-CA	8.73	1.62	1.46
4	A	313	GLN	N-CA	8.72	1.57	1.46
4	A	203	SER	CA-CB	8.72	1.65	1.53
10	I	8	ARG	CB-CG	8.72	1.78	1.52
4	A	1102	LYS	CD-CE	8.71	1.78	1.52
5	B	911	ILE	CA-C	-8.71	1.41	1.53
5	B	913	GLY	CA-C	-8.71	1.46	1.52
5	B	1032	SER	CA-CB	8.71	1.68	1.53
4	A	212	LYS	C-O	8.71	1.34	1.24
9	H	139	ASN	N-CA	-8.71	1.34	1.46
10	I	35	VAL	CA-C	8.70	1.62	1.52
4	A	401	GLY	CA-C	8.70	1.64	1.51
4	A	1237	ILE	C-O	-8.70	1.14	1.23
6	C	59	ALA	CA-CB	8.70	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	801	LYS	CA-C	-8.69	1.40	1.52
4	A	65	LEU	CG-CD2	8.69	1.81	1.52
7	E	55	ARG	CA-C	8.69	1.64	1.52
5	B	626	ILE	CA-CB	-8.69	1.43	1.54
6	C	72	LEU	CA-CB	-8.68	1.35	1.54
8	F	127	GLU	CB-CG	8.68	1.78	1.52
4	A	1160	SER	CA-C	8.68	1.63	1.52
12	K	73	LEU	CB-CG	-8.68	1.36	1.53
4	A	641	VAL	CA-C	-8.68	1.41	1.52
5	B	901	PRO	CB-CG	8.68	1.93	1.49
4	A	1335	ILE	N-CA	-8.67	1.36	1.46
4	A	167	CYS	N-CA	8.67	1.57	1.46
4	A	905	ASP	C-O	8.67	1.34	1.24
7	E	67	GLU	CA-C	8.67	1.61	1.53
9	H	134	ASN	CA-C	-8.67	1.41	1.52
5	B	403	LYS	CA-C	-8.67	1.41	1.53
9	H	126	GLU	CG-CD	8.67	1.73	1.52
4	A	6	TYR	CA-CB	8.66	1.66	1.53
4	A	1385	THR	CA-CB	-8.66	1.40	1.53
4	A	282	ASN	CB-CG	8.65	1.73	1.52
5	B	643	ASP	CA-C	8.65	1.64	1.52
5	B	1055	ILE	C-O	-8.65	1.15	1.24
7	E	49	SER	CA-CB	8.65	1.67	1.53
8	F	74	ILE	CA-CB	-8.65	1.43	1.54
6	C	101	LEU	CA-C	-8.65	1.42	1.52
9	H	89	LEU	CB-CG	8.65	1.70	1.53
4	A	50	ILE	CA-C	8.64	1.63	1.52
13	L	44	ASP	CA-CB	8.64	1.65	1.53
4	A	925	LEU	N-CA	-8.64	1.36	1.46
4	A	1130	GLN	CA-CB	8.64	1.67	1.53
8	F	76	LYS	CA-C	8.64	1.64	1.52
5	B	47	GLN	N-CA	8.64	1.56	1.46
4	A	749	ALA	CA-C	-8.63	1.41	1.52
7	E	162	ARG	CB-CG	8.63	1.78	1.52
6	C	240	VAL	CA-C	-8.63	1.41	1.52
6	C	209	TYR	CA-CB	8.63	1.65	1.53
1	R	4	G	O3'-P	8.62	1.74	1.61
4	A	1334	ASP	CB-CG	8.62	1.73	1.52
4	A	1221	LYS	CG-CD	8.62	1.78	1.52
4	A	148	CYS	CA-C	8.62	1.62	1.53
4	A	1373	ASP	CB-CG	8.62	1.73	1.52
4	A	98	LYS	CG-CD	8.62	1.78	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1009	ASN	CA-C	8.62	1.64	1.52
7	E	150	VAL	CA-C	-8.62	1.45	1.53
4	A	710	LEU	CB-CG	-8.61	1.36	1.53
9	H	56	THR	CA-CB	-8.61	1.39	1.54
5	B	353	LYS	CA-CB	8.61	1.68	1.53
12	K	50	LEU	N-CA	-8.61	1.35	1.46
4	A	66	LYS	CD-CE	8.60	1.78	1.52
5	B	313	MET	SD-CE	8.60	2.01	1.79
4	A	1144	LYS	CD-CE	8.60	1.78	1.52
11	J	52	THR	CA-CB	-8.60	1.40	1.53
4	A	941	LYS	CA-CB	8.60	1.68	1.53
4	A	1267	MET	SD-CE	8.60	2.01	1.79
5	B	305	VAL	CB-CG2	8.59	1.80	1.52
4	A	1092	LYS	CA-CB	8.59	1.70	1.53
6	C	258	ILE	CA-C	-8.59	1.41	1.53
5	B	68	THR	N-CA	8.59	1.56	1.46
7	E	186	LEU	CA-C	-8.59	1.40	1.52
5	B	1185	CYS	CA-CB	8.58	1.68	1.53
4	A	838	GLN	CB-CG	8.58	1.78	1.52
4	A	456	MET	CG-SD	8.58	2.02	1.80
4	A	533	LYS	N-CA	8.58	1.57	1.46
6	C	42	PRO	C-O	-8.57	1.13	1.23
6	C	3	GLU	N-CA	8.57	1.62	1.46
8	F	115	THR	CA-CB	-8.57	1.39	1.54
5	B	277	LYS	CA-CB	8.57	1.67	1.53
5	B	327	ARG	CG-CD	8.57	1.78	1.52
8	F	127	GLU	CG-CD	8.57	1.73	1.52
13	L	30	ILE	CA-CB	-8.57	1.42	1.54
5	B	25	ILE	CB-CG2	-8.57	1.24	1.52
9	H	20	TYR	CA-C	8.57	1.64	1.52
12	K	79	GLU	CA-C	8.57	1.64	1.52
4	A	951	GLU	CA-C	-8.56	1.42	1.52
4	A	257	ARG	N-CA	8.56	1.57	1.46
4	A	255	SER	CA-CB	8.56	1.67	1.53
5	B	846	ILE	CA-CB	-8.56	1.43	1.54
4	A	1124	HIS	CA-C	8.56	1.64	1.52
5	B	597	MET	CA-C	-8.56	1.42	1.52
6	C	143	LEU	CB-CG	-8.56	1.36	1.53
4	A	370	ILE	CA-CB	-8.55	1.42	1.54
4	A	736	ASN	CA-CB	-8.55	1.39	1.53
5	B	123	THR	CA-C	8.55	1.64	1.53
5	B	631	GLY	CA-C	8.55	1.62	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	C	140	ASN	CA-C	-8.55	1.42	1.52
9	H	109	LYS	CD-CE	8.55	1.78	1.52
4	A	915	SER	CA-C	8.55	1.64	1.52
5	B	275	TYR	CE1-CZ	8.55	1.58	1.38
5	B	251	ILE	N-CA	8.54	1.56	1.46
4	A	253	ASN	CA-C	-8.54	1.41	1.52
4	A	313	GLN	CA-C	-8.54	1.41	1.52
5	B	331	LEU	CA-C	-8.54	1.40	1.52
6	C	208	GLU	CB-CG	8.54	1.78	1.52
5	B	449	ASN	CA-C	8.53	1.63	1.53
13	L	37	LYS	CD-CE	8.53	1.78	1.52
4	A	962	ARG	CB-CG	8.53	1.78	1.52
4	A	150	THR	CA-C	8.52	1.62	1.52
4	A	48	ALA	CA-CB	8.52	1.67	1.53
4	A	58	LEU	N-CA	8.52	1.56	1.46
5	B	92	PHE	N-CA	-8.52	1.36	1.46
5	B	813	LYS	CE-NZ	8.52	1.75	1.49
4	A	833	GLU	CG-CD	8.52	1.73	1.52
6	C	192	TRP	CA-C	-8.52	1.42	1.52
4	A	632	VAL	CA-CB	8.52	1.64	1.54
9	H	146	ARG	CB-CG	8.51	1.77	1.52
5	B	914	LYS	CG-CD	8.51	1.77	1.52
4	A	323	LYS	N-CA	8.51	1.57	1.46
5	B	1017	ILE	CA-CB	-8.51	1.43	1.54
5	B	104	GLU	CA-C	-8.50	1.41	1.52
6	C	209	TYR	CZ-OH	8.50	1.55	1.38
7	E	139	ALA	N-CA	8.49	1.57	1.46
4	A	1000	LEU	CA-CB	-8.48	1.34	1.53
4	A	657	LEU	N-CA	-8.48	1.37	1.46
4	A	1059	HIS	CA-C	-8.48	1.42	1.52
4	A	465	TYR	CA-C	-8.48	1.41	1.52
4	A	1174	PHE	CA-CB	8.48	1.67	1.53
4	A	1255	GLU	N-CA	8.48	1.57	1.46
4	A	14	VAL	CA-CB	-8.48	1.43	1.54
4	A	1126	ALA	CA-CB	8.48	1.64	1.53
5	B	266	ALA	N-CA	8.48	1.57	1.46
6	C	245	VAL	CA-C	-8.47	1.42	1.52
12	K	59	ALA	CA-C	-8.47	1.41	1.52
4	A	769	SER	CA-C	-8.47	1.41	1.52
4	A	416	ARG	CA-CB	-8.47	1.42	1.54
4	A	774	ARG	CA-C	-8.47	1.41	1.52
5	B	818	PRO	CA-C	-8.47	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	1189	ILE	CB-CG2	8.47	1.80	1.52
4	A	1290	LYS	CD-CE	8.46	1.77	1.52
13	L	49	LYS	C-N	8.46	1.45	1.33
4	A	1275	GLY	CA-C	-8.46	1.43	1.52
5	B	627	PHE	CA-C	-8.46	1.42	1.52
10	I	5	ARG	CA-CB	8.46	1.67	1.53
4	A	1114	PRO	CA-C	8.45	1.64	1.52
5	B	103	ASN	N-CA	8.45	1.56	1.46
5	B	730	ARG	CA-C	-8.45	1.41	1.53
8	F	76	LYS	N-CA	8.45	1.57	1.46
4	A	1104	ILE	N-CA	-8.45	1.37	1.46
4	A	1316	VAL	CA-CB	8.45	1.64	1.54
5	B	132	VAL	CB-CG2	-8.45	1.24	1.52
6	C	201	TRP	CA-C	8.45	1.63	1.52
6	C	254	LYS	CA-C	-8.45	1.40	1.52
4	A	50	ILE	N-CA	8.44	1.56	1.46
5	B	1008	PRO	N-CA	8.44	1.54	1.46
12	K	28	PRO	CB-CG	8.44	1.91	1.49
4	A	213	HIS	CA-CB	8.44	1.67	1.53
6	C	47	ASP	C-O	8.44	1.36	1.23
4	A	1081	LEU	CB-CG	8.43	1.70	1.53
2	T	17	DG	C3'-O3'	-8.43	1.17	1.42
4	A	838	GLN	C-O	-8.43	1.13	1.24
4	A	857	ARG	CA-C	-8.43	1.42	1.52
5	B	968	VAL	CB-CG1	-8.43	1.24	1.52
9	H	40	LEU	CA-C	-8.43	1.42	1.52
7	E	141	VAL	CA-C	-8.43	1.40	1.52
4	A	892	ALA	N-CA	-8.43	1.34	1.46
5	B	1046	PRO	CA-C	-8.43	1.40	1.52
4	A	304	MET	CA-C	8.42	1.64	1.52
4	A	118	HIS	CA-C	8.42	1.64	1.52
13	L	32	ALA	CA-CB	8.42	1.67	1.53
5	B	1223	ASP	N-CA	8.41	1.57	1.46
10	I	69	PRO	CA-C	-8.41	1.43	1.52
4	A	962	ARG	CG-CD	8.41	1.77	1.52
9	H	111	LEU	N-CA	8.41	1.56	1.46
4	A	471	ASN	C-O	-8.41	1.13	1.24
5	B	389	ALA	CA-C	-8.41	1.40	1.52
5	B	847	ASP	C-O	-8.40	1.14	1.24
4	A	32	VAL	CA-CB	8.40	1.65	1.54
5	B	816	GLU	CA-C	-8.40	1.41	1.52
5	B	705	MET	CA-C	-8.39	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	233	TRP	CA-C	-8.39	1.42	1.52
4	A	279	LEU	N-CA	8.39	1.57	1.46
4	A	1130	GLN	CB-CG	8.39	1.77	1.52
4	A	649	ILE	CA-CB	8.38	1.66	1.54
5	B	281	PRO	CA-CB	-8.38	1.44	1.54
4	A	1303	GLU	N-CA	8.38	1.56	1.46
12	K	78	THR	CA-C	-8.38	1.42	1.52
5	B	635	ARG	CG-CD	8.38	1.77	1.52
6	C	25	VAL	N-CA	-8.38	1.36	1.46
4	A	535	THR	N-CA	-8.38	1.36	1.46
5	B	370	PHE	CA-CB	8.37	1.67	1.53
4	A	383	TYR	N-CA	-8.37	1.36	1.46
4	A	1169	ILE	CA-CB	8.37	1.65	1.54
5	B	297	ILE	CA-C	8.37	1.62	1.52
5	B	398	ARG	CZ-NH1	8.37	1.44	1.32
4	A	496	GLU	CG-CD	8.36	1.73	1.52
4	A	212	LYS	CA-CB	8.36	1.67	1.53
12	K	10	PHE	CA-C	-8.36	1.42	1.52
4	A	595	THR	C-O	-8.35	1.13	1.23
5	B	356	LEU	CA-CB	8.35	1.63	1.52
5	B	448	ILE	CA-C	8.35	1.63	1.52
4	A	1196	GLU	CG-CD	8.35	1.73	1.52
5	B	227	LYS	CA-C	-8.35	1.41	1.52
5	B	281	PRO	CA-C	-8.35	1.43	1.52
5	B	583	ASN	CA-C	-8.35	1.41	1.52
5	B	908	GLU	CG-CD	8.35	1.73	1.52
8	F	154	ASP	CA-CB	8.35	1.63	1.53
5	B	1008	PRO	CA-CB	-8.35	1.40	1.54
5	B	471	LYS	CD-CE	8.35	1.77	1.52
4	A	321	PRO	CB-CG	-8.34	1.18	1.51
4	A	101	LYS	CB-CG	8.34	1.77	1.52
4	A	768	GLN	CD-NE2	8.33	1.50	1.33
10	I	40	SER	CA-CB	8.33	1.66	1.53
4	A	435	HIS	CA-CB	-8.33	1.39	1.53
4	A	664	THR	CB-CG2	8.33	1.80	1.52
5	B	788	ARG	CA-C	-8.33	1.42	1.52
7	E	148	GLU	CG-CD	8.33	1.72	1.52
8	F	116	ASP	N-CA	8.33	1.57	1.46
4	A	321	PRO	N-CA	8.32	1.61	1.47
10	I	77	LYS	CA-C	8.32	1.64	1.52
4	A	220	THR	CA-CB	8.32	1.67	1.53
10	I	103	CYS	CA-C	-8.32	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	171	GLN	CA-CB	8.32	1.65	1.53
4	A	1028	THR	N-CA	-8.32	1.35	1.46
5	B	367	LEU	CB-CG	8.32	1.70	1.53
6	C	78	GLU	CB-CG	8.32	1.77	1.52
12	K	90	ALA	CA-CB	-8.32	1.39	1.53
4	A	780	VAL	CA-C	8.31	1.63	1.52
4	A	1049	ILE	CA-CB	-8.31	1.43	1.54
7	E	81	GLU	N-CA	8.31	1.57	1.46
5	B	986	GLN	CD-OE1	8.31	1.39	1.23
5	B	842	ASN	CA-C	8.31	1.64	1.52
4	A	1288	ASP	CA-CB	8.31	1.66	1.53
5	B	629	ASP	N-CA	8.31	1.55	1.45
4	A	850	VAL	N-CA	-8.30	1.35	1.46
11	J	17	LYS	CA-CB	8.30	1.67	1.53
5	B	471	LYS	C-N	8.30	1.45	1.33
7	E	111	VAL	CB-CG1	8.30	1.79	1.52
4	A	999	VAL	CA-CB	-8.29	1.43	1.54
4	A	1171	GLN	CA-CB	8.29	1.66	1.53
10	I	33	SER	N-CA	8.29	1.53	1.46
5	B	952	VAL	CA-C	-8.29	1.42	1.52
4	A	1126	ALA	C-O	8.29	1.34	1.23
4	A	328	ARG	CA-C	8.29	1.63	1.52
5	B	598	GLU	CG-CD	8.28	1.72	1.52
4	A	668	ASP	CA-C	8.28	1.63	1.52
4	A	1400	CYS	C-O	-8.28	1.13	1.24
4	A	44	THR	N-CA	8.28	1.56	1.46
5	B	758	PHE	CB-CG	-8.28	1.31	1.50
4	A	566	ILE	N-CA	8.28	1.53	1.46
3	N	10	DG	P-OP1	8.27	1.65	1.48
4	A	301	ALA	N-CA	8.27	1.56	1.46
4	A	387	ARG	CD-NE	8.27	1.57	1.46
4	A	514	PRO	CA-CB	-8.27	1.42	1.53
5	B	1159	ARG	CA-C	-8.27	1.42	1.52
12	K	48	ALA	CA-CB	8.27	1.67	1.53
4	A	218	ASP	CA-CB	8.27	1.67	1.53
7	E	158	SER	N-CA	8.27	1.56	1.46
4	A	108	MET	CG-SD	8.27	2.01	1.80
4	A	941	LYS	CE-NZ	8.27	1.74	1.49
5	B	29	ASP	CG-OD2	8.27	1.41	1.25
4	A	904	THR	CA-CB	8.26	1.67	1.53
4	A	633	VAL	CA-C	-8.26	1.40	1.52
4	A	1041	ALA	CA-C	8.26	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	347	LYS	CG-CD	8.26	1.77	1.52
8	F	131	PRO	C-N	-8.26	1.22	1.33
4	A	1119	TYR	CA-C	-8.26	1.42	1.52
5	B	782	LEU	CA-C	-8.26	1.41	1.52
7	E	38	PRO	CA-C	-8.25	1.40	1.52
4	A	539	THR	C-O	8.25	1.33	1.24
10	I	36	GLU	CB-CG	8.25	1.77	1.52
4	A	492	PRO	CA-CB	-8.25	1.42	1.53
4	A	1422	ARG	CA-C	8.24	1.63	1.52
4	A	845	LEU	N-CA	8.24	1.55	1.46
5	B	104	GLU	CA-CB	8.24	1.65	1.53
5	B	882	THR	CB-CG2	8.24	1.79	1.52
10	I	5	ARG	N-CA	8.24	1.56	1.46
5	B	1150	ARG	C-O	-8.24	1.13	1.24
9	H	112	ILE	CA-CB	8.24	1.65	1.54
4	A	1318	THR	CA-CB	-8.24	1.39	1.53
5	B	207	GLY	CA-C	-8.24	1.40	1.51
6	C	56	THR	CA-CB	-8.24	1.39	1.53
9	H	14	GLU	CG-CD	8.24	1.72	1.52
4	A	1416	ALA	CA-C	-8.23	1.45	1.53
5	B	279	ASP	CB-CG	8.23	1.72	1.52
7	E	195	VAL	CA-CB	-8.23	1.44	1.54
10	I	4	PHE	CA-C	8.23	1.63	1.52
4	A	1409	LEU	N-CA	-8.23	1.36	1.46
4	A	171	GLN	CG-CD	8.22	1.72	1.52
4	A	1187	GLN	CA-C	8.22	1.70	1.52
7	E	69	ILE	N-CA	-8.22	1.37	1.46
5	B	510	LYS	CG-CD	8.22	1.77	1.52
4	A	57	ARG	CD-NE	8.21	1.57	1.46
5	B	1188	LYS	CG-CD	8.21	1.77	1.52
6	C	181	ASP	C-N	-8.21	1.23	1.34
5	B	272	THR	CA-C	-8.21	1.42	1.52
6	C	125	MET	CG-SD	8.21	2.01	1.80
4	A	19	PHE	CA-C	-8.21	1.41	1.53
4	A	387	ARG	C-O	-8.21	1.14	1.24
4	A	476	SER	CA-CB	-8.21	1.40	1.53
4	A	1263	ILE	CA-CB	-8.21	1.43	1.54
5	B	1087	PHE	CA-C	-8.20	1.43	1.52
4	A	317	LYS	CB-CG	8.20	1.77	1.52
4	A	1147	THR	CA-CB	-8.20	1.41	1.53
9	H	93	TYR	CA-CB	8.20	1.66	1.53
10	I	115	LYS	CA-C	8.20	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	K	63	VAL	CA-C	-8.20	1.43	1.52
5	B	419	THR	CB-CG2	8.20	1.79	1.52
7	E	199	ILE	CA-CB	-8.19	1.42	1.54
4	A	323	LYS	CD-CE	8.19	1.77	1.52
9	H	129	TYR	CA-C	8.19	1.62	1.52
12	K	105	PHE	C-O	8.19	1.33	1.24
5	B	164	LYS	CG-CD	8.19	1.77	1.52
5	B	963	PHE	CA-C	-8.18	1.42	1.52
5	B	986	GLN	CA-CB	8.18	1.63	1.52
4	A	349	ALA	CA-C	-8.18	1.41	1.52
4	A	996	ASN	CA-CB	-8.18	1.39	1.53
9	H	85	GLY	C-N	8.18	1.44	1.33
4	A	1078	GLN	N-CA	-8.18	1.34	1.46
5	B	188	ASP	CA-CB	8.18	1.67	1.53
4	A	216	VAL	CA-C	8.17	1.62	1.52
4	A	708	MET	CA-C	-8.17	1.42	1.52
5	B	592	ASN	CA-C	8.17	1.63	1.52
4	A	914	GLU	CA-C	8.16	1.63	1.52
5	B	1084	GLN	CA-C	-8.16	1.42	1.52
12	K	96	ASN	CA-C	-8.16	1.42	1.52
5	B	622	LYS	CE-NZ	8.16	1.73	1.49
8	F	121	ALA	CA-CB	-8.16	1.39	1.53
6	C	202	PRO	CA-C	-8.15	1.40	1.52
6	C	149	LYS	CA-CB	8.15	1.66	1.53
10	I	60	GLN	CA-CB	8.15	1.66	1.53
4	A	316	GLN	C-O	8.15	1.31	1.24
4	A	376	TYR	C-O	-8.15	1.13	1.24
4	A	691	LEU	CG-CD1	-8.15	1.25	1.52
5	B	99	LYS	CE-NZ	8.15	1.73	1.49
4	A	227	VAL	CA-C	8.14	1.63	1.52
5	B	51	PHE	CA-CB	-8.14	1.40	1.53
4	A	277	GLU	CA-CB	8.14	1.66	1.53
10	I	77	LYS	CD-CE	8.14	1.76	1.52
4	A	309	ALA	N-CA	8.13	1.56	1.46
4	A	218	ASP	N-CA	8.13	1.56	1.46
4	A	201	VAL	CA-CB	8.13	1.67	1.54
4	A	680	THR	N-CA	-8.13	1.36	1.46
7	E	25	ASP	CA-CB	8.13	1.66	1.53
12	K	109	TRP	CA-C	-8.13	1.41	1.52
13	L	42	ARG	CB-CG	8.13	1.76	1.52
4	A	384	ASN	N-CA	8.13	1.56	1.46
5	B	261	ARG	CB-CG	8.12	1.76	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	E	201	LYS	CA-C	8.13	1.64	1.53
5	B	509	ALA	C-N	8.12	1.43	1.33
5	B	54	PHE	CA-CB	-8.12	1.39	1.53
7	E	190	LEU	CG-CD2	8.12	1.79	1.52
4	A	55	ASP	N-CA	8.11	1.57	1.46
4	A	220	THR	CB-CG2	8.11	1.79	1.52
4	A	880	LYS	CB-CG	8.11	1.76	1.52
4	A	833	GLU	CB-CG	8.11	1.76	1.52
4	A	985	ASP	C-O	8.11	1.34	1.24
4	A	251	SER	N-CA	8.11	1.56	1.46
5	B	466	TRP	CE2-CZ2	-8.11	1.22	1.39
4	A	440	ASP	C-O	8.10	1.34	1.23
4	A	855	THR	CA-C	8.10	1.63	1.52
5	B	432	MET	CA-C	8.10	1.63	1.52
4	A	251	SER	CA-CB	8.10	1.67	1.53
5	B	1120	GLU	CB-CG	8.10	1.76	1.52
5	B	305	VAL	CB-CG1	8.10	1.79	1.52
5	B	397	ASP	CA-CB	8.10	1.67	1.53
6	C	60	ASP	CB-CG	8.10	1.72	1.52
4	A	277	GLU	CB-CG	8.10	1.76	1.52
4	A	631	HIS	CA-C	8.10	1.63	1.52
4	A	685	GLU	CA-CB	8.10	1.66	1.53
5	B	1089	PRO	CA-C	8.10	1.62	1.52
6	C	3	GLU	CA-C	8.10	1.70	1.52
4	A	281	HIS	CA-C	8.09	1.63	1.52
4	A	565	ILE	N-CA	-8.09	1.36	1.46
4	A	1383	SER	C-O	8.09	1.34	1.24
4	A	133	LYS	CD-CE	8.08	1.76	1.52
4	A	969	GLN	CA-CB	8.08	1.66	1.53
4	A	567	LYS	CA-CB	-8.08	1.40	1.53
4	A	690	VAL	CA-C	-8.08	1.42	1.52
5	B	294	ASP	CA-CB	8.08	1.67	1.53
5	B	904	ARG	CA-CB	-8.08	1.41	1.53
11	J	17	LYS	CE-NZ	8.08	1.73	1.49
12	K	2	ASN	CA-CB	-8.07	1.40	1.53
12	K	2	ASN	N-CA	-8.07	1.35	1.46
12	K	95	ILE	N-CA	-8.07	1.36	1.46
4	A	1365	TYR	N-CA	-8.06	1.36	1.46
4	A	818	MET	SD-CE	8.06	1.99	1.79
7	E	16	PHE	C-O	8.06	1.34	1.24
4	A	945	GLU	CA-CB	8.06	1.67	1.53
4	A	1102	LYS	CG-CD	8.06	1.76	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1135	ARG	C-O	8.05	1.34	1.24
6	C	249	ASP	CB-CG	8.05	1.72	1.52
7	E	122	LYS	CD-CE	8.05	1.76	1.52
4	A	34	LYS	CB-CG	8.05	1.76	1.52
4	A	1221	LYS	C-O	8.05	1.34	1.24
8	F	105	ALA	C-O	8.04	1.32	1.23
7	E	28	TYR	N-CA	8.04	1.56	1.46
5	B	1051	THR	CA-CB	-8.04	1.37	1.54
4	A	277	GLU	N-CA	8.04	1.56	1.46
4	A	473	SER	CA-CB	8.04	1.66	1.53
13	L	56	LEU	CA-C	8.04	1.63	1.52
5	B	381	MET	C-O	8.04	1.33	1.24
4	A	66	LYS	CA-CB	8.03	1.67	1.53
4	A	1445	ILE	CA-CB	8.03	1.76	1.54
6	C	209	TYR	CD1-CE1	8.03	1.62	1.38
12	K	112	GLN	CG-CD	8.03	1.72	1.52
4	A	1300	LYS	CG-CD	8.03	1.76	1.52
5	B	645	SER	N-CA	8.03	1.56	1.46
4	A	411	ASP	CB-CG	8.03	1.72	1.52
6	C	7	GLN	CB-CG	-8.03	1.28	1.52
6	C	263	THR	CA-C	8.03	1.63	1.52
5	B	667	GLN	CA-C	8.02	1.63	1.52
8	F	78	GLN	CG-CD	8.02	1.72	1.52
13	L	49	LYS	CA-C	8.02	1.65	1.53
4	A	844	ALA	N-CA	-8.02	1.36	1.46
10	I	14	LEU	C-O	8.02	1.34	1.24
4	A	411	ASP	N-CA	8.01	1.55	1.46
4	A	935	GLN	CA-CB	-8.01	1.40	1.53
4	A	1047	SER	CA-C	8.01	1.63	1.52
13	L	34	CYS	N-CA	8.01	1.56	1.46
4	A	529	CYS	CA-C	8.00	1.63	1.52
13	L	45	ALA	CA-CB	8.00	1.67	1.53
4	A	883	LEU	N-CA	8.00	1.56	1.46
4	A	1072	ILE	CA-CB	-8.00	1.43	1.54
4	A	1420	ASP	CB-CG	8.00	1.72	1.52
12	K	110	ASN	CA-C	-8.00	1.42	1.52
4	A	145	LYS	N-CA	8.00	1.56	1.46
13	L	56	LEU	CA-CB	-8.00	1.40	1.53
4	A	319	GLY	N-CA	8.00	1.56	1.45
4	A	1224	LEU	CB-CG	8.00	1.69	1.53
6	C	161	LYS	N-CA	-7.99	1.35	1.46
4	A	593	GLU	CB-CG	7.99	1.76	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	J	8	PHE	N-CA	-7.99	1.35	1.46
4	A	949	ASP	CA-CB	7.99	1.67	1.53
4	A	527	THR	C-O	-7.99	1.14	1.24
10	I	106	CYS	N-CA	7.99	1.55	1.46
4	A	96	ILE	N-CA	-7.98	1.37	1.46
4	A	759	ALA	C-O	7.98	1.33	1.24
5	B	1157	ALA	N-CA	7.98	1.56	1.46
11	J	44	TYR	CD2-CE2	7.98	1.62	1.38
4	A	1350	LYS	CB-CG	7.98	1.76	1.52
4	A	1429	ILE	CA-CB	-7.98	1.44	1.54
4	A	448	PRO	N-CD	-7.98	1.36	1.47
5	B	261	ARG	CG-CD	7.98	1.76	1.52
6	C	57	VAL	CA-CB	-7.98	1.44	1.54
6	C	175	ALA	CA-C	-7.97	1.43	1.52
4	A	153	PRO	CA-CB	7.97	1.65	1.53
4	A	1285	MET	CG-SD	7.97	2.00	1.80
5	B	1148	LYS	CA-C	-7.97	1.42	1.52
4	A	453	MET	CA-CB	-7.97	1.40	1.53
5	B	911	ILE	CA-CB	-7.96	1.43	1.54
13	L	35	SER	CA-CB	7.96	1.67	1.53
12	K	11	LEU	CA-CB	-7.96	1.42	1.53
7	E	201	LYS	CD-CE	7.96	1.76	1.52
8	F	125	LEU	CG-CD2	7.96	1.78	1.52
4	A	1311	VAL	CA-C	-7.96	1.42	1.52
4	A	1026	LEU	N-CA	7.95	1.56	1.46
11	J	44	TYR	N-CA	-7.95	1.35	1.46
4	A	105	CYS	N-CA	7.95	1.56	1.46
5	B	624	LEU	N-CA	-7.95	1.37	1.46
5	B	641	GLU	CG-CD	7.95	1.72	1.52
5	B	959	ASP	CA-C	7.95	1.63	1.52
8	F	129	LYS	CB-CG	7.95	1.76	1.52
4	A	1158	PRO	CA-C	-7.94	1.41	1.52
5	B	235	SER	C-O	-7.94	1.14	1.24
4	A	938	LYS	CD-CE	7.93	1.76	1.52
13	L	27	LEU	CA-CB	7.93	1.70	1.54
4	A	880	LYS	CA-CB	7.93	1.66	1.53
4	A	231	PRO	CA-C	-7.92	1.41	1.52
7	E	35	VAL	CB-CG2	7.92	1.78	1.52
4	A	403	LYS	CE-NZ	7.92	1.73	1.49
4	A	490	HIS	CA-C	-7.92	1.42	1.52
4	A	288	ALA	CA-CB	7.92	1.66	1.53
4	A	1256	GLU	CG-CD	7.92	1.71	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	320	ARG	N-CA	7.92	1.57	1.46
9	H	32	THR	CA-CB	7.91	1.66	1.53
8	F	106	PRO	C-O	-7.91	1.14	1.23
5	B	378	LEU	CA-C	7.91	1.63	1.52
4	A	390	GLN	CG-CD	7.91	1.71	1.52
5	B	966	VAL	CA-CB	-7.91	1.45	1.54
11	J	10	CYS	CB-SG	7.91	2.07	1.81
5	B	726	ALA	CA-C	-7.91	1.42	1.52
10	I	3	THR	N-CA	7.91	1.56	1.46
7	E	115	ASN	N-CA	7.90	1.56	1.46
4	A	531	ILE	N-CA	7.90	1.56	1.46
4	A	1359	ASP	CA-CB	7.90	1.65	1.53
5	B	638	PHE	N-CA	7.90	1.55	1.45
4	A	497	THR	CA-CB	-7.90	1.40	1.53
4	A	1163	ILE	C-O	-7.90	1.15	1.23
5	B	431	TYR	CA-CB	7.90	1.66	1.53
8	F	153	VAL	CB-CG1	7.90	1.78	1.52
9	H	87	ARG	N-CA	7.90	1.55	1.46
10	I	86	PHE	CA-CB	-7.90	1.40	1.53
5	B	809	MET	CG-SD	7.89	2.00	1.80
7	E	77	SER	CA-CB	7.89	1.66	1.53
4	A	321	PRO	CG-CD	7.89	1.73	1.51
5	B	775	LYS	C-O	7.89	1.34	1.24
5	B	49	ASP	CA-CB	7.88	1.65	1.53
4	A	1033	GLN	CA-C	-7.88	1.41	1.52
6	C	260	LEU	N-CA	-7.88	1.35	1.46
5	B	229	ALA	CA-C	-7.88	1.42	1.52
4	A	1162	VAL	CB-CG1	-7.88	1.26	1.52
5	B	795	ILE	C-O	-7.88	1.16	1.24
4	A	284	ALA	N-CA	7.87	1.57	1.46
5	B	519	TRP	CA-C	-7.87	1.42	1.52
4	A	725	ALA	CA-C	7.87	1.63	1.52
5	B	436	VAL	N-CA	7.87	1.56	1.46
5	B	790	ASP	CB-CG	7.87	1.71	1.52
4	A	1292	PRO	CA-C	-7.87	1.41	1.52
4	A	720	ARG	CB-CG	7.86	1.76	1.52
5	B	602	THR	CA-C	7.86	1.63	1.52
6	C	3	GLU	C-N	7.86	1.44	1.33
5	B	354	ASP	CA-C	7.86	1.57	1.52
5	B	570	VAL	CA-C	-7.86	1.44	1.52
5	B	1210	MET	CA-CB	-7.86	1.42	1.53
4	A	371	ALA	CA-CB	-7.85	1.40	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	K	106	GLU	CA-C	-7.85	1.41	1.52
5	B	193	LYS	CD-CE	7.85	1.75	1.52
5	B	653	VAL	CA-C	-7.84	1.42	1.52
6	C	205	LYS	CD-CE	7.84	1.75	1.52
4	A	605	MET	SD-CE	-7.84	1.59	1.79
4	A	1206	ASP	C-N	7.84	1.43	1.33
10	I	115	LYS	CD-CE	7.84	1.75	1.52
5	B	130	VAL	N-CA	7.84	1.55	1.46
7	E	72	PHE	CA-C	7.84	1.62	1.52
4	A	1370	LEU	CA-C	7.83	1.63	1.52
5	B	433	GLN	CG-CD	7.83	1.71	1.52
9	H	134	ASN	N-CA	7.83	1.56	1.46
4	A	930	ASP	CA-C	7.83	1.63	1.52
5	B	493	SER	N-CA	-7.83	1.36	1.46
6	C	100	THR	CA-C	-7.83	1.43	1.52
4	A	240	PRO	CA-C	-7.83	1.41	1.52
4	A	768	GLN	CA-C	-7.83	1.43	1.52
5	B	918	ILE	CB-CG2	7.83	1.78	1.52
5	B	1138	MET	CG-SD	7.82	2.00	1.80
4	A	451	HIS	N-CA	7.82	1.56	1.46
10	I	81	ARG	CA-C	7.82	1.65	1.52
4	A	175	ARG	CA-C	7.82	1.61	1.52
4	A	277	GLU	CG-CD	7.82	1.71	1.52
5	B	168	GLY	CA-C	7.82	1.62	1.51
9	H	88	SER	CA-C	7.82	1.62	1.52
5	B	206	ASN	CB-CG	-7.82	1.32	1.52
5	B	368	GLU	CB-CG	7.82	1.75	1.52
6	C	12	GLU	CG-CD	7.82	1.71	1.52
9	H	57	VAL	CB-CG1	7.81	1.78	1.52
4	A	282	ASN	N-CA	7.81	1.56	1.46
5	B	883	LEU	CG-CD2	7.81	1.78	1.52
4	A	598	LEU	CG-CD1	7.81	1.78	1.52
7	E	3	GLN	CG-CD	7.81	1.71	1.52
4	A	980	ASP	CB-CG	7.80	1.71	1.52
4	A	48	ALA	CA-C	7.80	1.63	1.52
6	C	36	VAL	N-CA	-7.80	1.37	1.46
4	A	554	PRO	N-CA	-7.80	1.37	1.47
4	A	1369	ALA	CA-CB	-7.80	1.40	1.53
4	A	356	ASP	CB-CG	7.80	1.71	1.52
5	B	237	VAL	CA-CB	-7.80	1.43	1.54
9	H	58	THR	C-O	-7.80	1.13	1.23
10	I	14	LEU	N-CA	-7.80	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	899	ILE	CA-CB	-7.79	1.43	1.54
4	A	97	ALA	CA-C	-7.79	1.41	1.52
4	A	36	ARG	CA-CB	7.79	1.66	1.53
4	A	1127	ASP	N-CA	7.79	1.56	1.46
7	E	191	LYS	CA-C	7.79	1.63	1.53
5	B	904	ARG	CB-CG	-7.78	1.29	1.52
6	C	9	LYS	CG-CD	7.78	1.75	1.52
5	B	471	LYS	C-O	7.78	1.33	1.24
4	A	476	SER	CA-C	-7.78	1.43	1.52
5	B	300	HIS	N-CA	7.77	1.56	1.46
5	B	764	SER	CA-CB	7.77	1.64	1.53
7	E	191	LYS	CG-CD	7.77	1.75	1.52
9	H	38	LEU	CG-CD1	7.77	1.78	1.52
12	K	53	ASP	N-CA	7.77	1.55	1.46
4	A	56	PRO	N-CA	7.77	1.57	1.47
4	A	149	GLU	N-CA	7.77	1.56	1.46
5	B	941	LEU	CB-CG	-7.77	1.38	1.53
4	A	1329	THR	CA-CB	-7.77	1.40	1.53
4	A	891	ALA	CA-C	-7.76	1.43	1.52
4	A	1093	LYS	CB-CG	7.76	1.75	1.52
5	B	883	LEU	CA-C	7.76	1.63	1.53
5	B	106	ASP	CB-CG	7.76	1.71	1.52
4	A	848	ILE	CB-CG2	-7.76	1.26	1.52
7	E	187	TYR	CA-C	-7.75	1.38	1.52
4	A	1217	LYS	CA-CB	7.75	1.65	1.53
9	H	133	ASN	CA-CB	7.75	1.68	1.54
5	B	848	ARG	CA-C	7.75	1.63	1.52
8	F	155	LEU	CB-CG	7.75	1.69	1.53
4	A	1435	PRO	N-CA	7.75	1.57	1.47
5	B	164	LYS	CA-CB	7.75	1.69	1.53
7	E	88	VAL	CA-CB	7.75	1.65	1.54
4	A	1165	GLU	CA-CB	7.74	1.65	1.53
5	B	1050	ILE	CA-CB	-7.74	1.44	1.54
6	C	10	ILE	CA-C	-7.74	1.43	1.52
10	I	62	ILE	CA-CB	-7.74	1.44	1.54
4	A	221	SER	CA-CB	-7.74	1.41	1.53
4	A	838	GLN	CG-CD	7.74	1.71	1.52
4	A	29	ALA	CA-C	7.74	1.62	1.52
4	A	213	HIS	CA-C	7.74	1.63	1.52
6	C	141	GLY	CA-C	-7.74	1.41	1.51
4	A	306	ASN	CB-CG	-7.73	1.32	1.52
7	E	81	GLU	CB-CG	7.73	1.75	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	E	181	ALA	CA-CB	-7.73	1.40	1.53
4	A	1428	VAL	CA-CB	-7.73	1.43	1.54
8	F	155	LEU	CG-CD2	7.73	1.78	1.52
4	A	571	LEU	CG-CD2	7.73	1.78	1.52
5	B	429	PHE	CG-CD1	7.73	1.55	1.38
7	E	191	LYS	CB-CG	7.73	1.75	1.52
6	C	137	LYS	CG-CD	7.73	1.75	1.52
11	J	64	ASN	CA-C	7.73	1.62	1.52
12	K	8	GLU	CG-CD	7.72	1.71	1.52
4	A	364	VAL	CA-CB	-7.72	1.44	1.54
1	R	6	G	P-OP2	7.72	1.64	1.49
5	B	1013	ASN	CA-C	7.72	1.61	1.53
4	A	796	SER	N-CA	-7.71	1.36	1.46
4	A	1335	ILE	C-O	-7.71	1.15	1.24
4	A	1331	SER	CA-C	-7.71	1.43	1.52
5	B	620	ARG	N-CA	-7.71	1.35	1.46
4	A	495	GLU	CA-CB	7.71	1.66	1.53
4	A	1206	ASP	CB-CG	7.71	1.71	1.52
4	A	428	TYR	N-CA	7.70	1.56	1.46
9	H	125	LEU	CG-CD1	7.70	1.77	1.52
10	I	22	ASN	CA-CB	7.70	1.66	1.53
4	A	37	PHE	CA-CB	7.70	1.64	1.53
4	A	1138	ILE	C-O	7.70	1.32	1.23
4	A	210	ILE	CA-C	-7.70	1.43	1.52
4	A	1266	THR	N-CA	-7.70	1.36	1.46
5	B	691	GLU	CG-CD	7.70	1.71	1.52
4	A	1205	LYS	CB-CG	7.70	1.75	1.52
4	A	549	MET	CG-SD	7.70	2.00	1.80
4	A	734	GLU	N-CA	7.70	1.56	1.46
4	A	58	LEU	CA-CB	-7.69	1.41	1.53
4	A	3	GLY	N-CA	7.69	1.57	1.45
4	A	403	LYS	CD-CE	7.69	1.75	1.52
4	A	1351	GLU	N-CA	-7.69	1.36	1.46
5	B	316	PRO	CA-CB	-7.69	1.40	1.54
4	A	518	LYS	CA-C	7.69	1.62	1.52
5	B	733	HIS	C-N	7.69	1.44	1.33
5	B	761	HIS	CA-CB	-7.69	1.40	1.53
5	B	945	GLU	CA-C	7.69	1.63	1.52
5	B	1211	ASN	CB-CG	7.69	1.71	1.52
6	C	225	ALA	CA-C	-7.69	1.43	1.52
5	B	262	GLU	N-CA	7.68	1.55	1.46
5	B	1098	MET	N-CA	-7.68	1.35	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	688	LYS	CD-CE	7.67	1.75	1.52
5	B	241	ARG	CB-CG	7.67	1.75	1.52
5	B	489	SER	CA-CB	7.67	1.66	1.53
6	C	73	GLN	CA-C	-7.67	1.42	1.52
5	B	106	ASP	CA-CB	7.67	1.64	1.53
4	A	496	GLU	N-CA	7.67	1.56	1.46
4	A	598	LEU	CA-CB	-7.67	1.41	1.54
4	A	930	ASP	CB-CG	7.67	1.71	1.52
7	E	157	SER	CA-C	7.67	1.63	1.52
4	A	1369	ALA	CA-C	7.67	1.63	1.52
6	C	262	LEU	CA-C	7.67	1.62	1.52
4	A	212	LYS	CG-CD	7.66	1.75	1.52
4	A	977	LYS	CD-CE	7.66	1.75	1.52
5	B	248	SER	CA-C	7.66	1.63	1.52
4	A	658	LEU	CG-CD1	7.65	1.77	1.52
6	C	134	ILE	CA-CB	-7.65	1.44	1.54
5	B	755	ILE	CA-C	7.65	1.60	1.52
5	B	934	LYS	CA-CB	7.65	1.63	1.52
5	B	1100	ASP	N-CA	-7.65	1.36	1.46
4	A	901	LEU	CA-CB	7.65	1.66	1.53
5	B	315	LYS	CE-NZ	7.65	1.72	1.49
4	A	933	TYR	CD1-CE1	7.65	1.61	1.38
4	A	363	GLN	CD-NE2	7.64	1.49	1.33
4	A	1325	THR	CA-CB	-7.64	1.40	1.53
5	B	1123	SER	N-CA	-7.64	1.37	1.46
6	C	182	PRO	CA-C	-7.64	1.41	1.52
13	L	49	LYS	CD-CE	7.64	1.75	1.52
13	L	61	THR	CB-CG2	7.64	1.77	1.52
5	B	1058	LEU	N-CA	-7.64	1.37	1.46
5	B	591	ARG	CA-C	-7.63	1.42	1.53
5	B	759	PRO	CA-C	-7.63	1.42	1.52
5	B	646	LEU	CG-CD2	7.63	1.77	1.52
11	J	49	MET	SD-CE	-7.63	1.60	1.79
5	B	941	LEU	CA-CB	-7.63	1.40	1.53
5	B	992	ILE	N-CA	-7.63	1.36	1.46
13	L	34	CYS	CA-C	7.63	1.61	1.52
4	A	996	ASN	CA-C	7.63	1.62	1.52
5	B	629	ASP	CA-C	-7.63	1.42	1.53
5	B	775	LYS	CA-CB	-7.62	1.42	1.53
4	A	49	LYS	CB-CG	7.62	1.75	1.52
4	A	775	ILE	N-CA	-7.62	1.37	1.46
7	E	45	LYS	CD-CE	7.62	1.75	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	J	5	VAL	CA-C	-7.62	1.43	1.52
12	K	82	ASP	CB-CG	7.62	1.71	1.52
4	A	1287	TYR	CD2-CE2	7.62	1.61	1.38
9	H	11	GLN	N-CA	-7.61	1.36	1.46
5	B	690	VAL	CA-CB	-7.61	1.44	1.54
4	A	563	PRO	C-O	-7.61	1.15	1.23
5	B	412	LEU	CB-CG	-7.61	1.38	1.53
4	A	510	GLN	CA-C	-7.61	1.42	1.52
5	B	473	MET	CA-C	-7.61	1.42	1.52
6	C	147	LEU	CA-CB	-7.61	1.38	1.54
7	E	149	LEU	CA-C	-7.60	1.42	1.52
9	H	58	THR	CA-C	-7.60	1.43	1.52
4	A	840	ARG	N-CA	-7.60	1.35	1.46
5	B	943	SER	CA-C	7.60	1.62	1.52
4	A	312	PRO	N-CA	7.60	1.57	1.47
9	H	116	TYR	N-CA	-7.60	1.36	1.46
6	C	59	ALA	CA-C	7.60	1.63	1.53
12	K	29	ASN	C-O	7.60	1.34	1.23
4	A	1112	LYS	N-CA	7.59	1.55	1.46
9	H	99	GLY	N-CA	7.59	1.52	1.44
5	B	37	PHE	C-O	-7.59	1.14	1.24
7	E	170	LEU	N-CA	-7.59	1.37	1.46
5	B	476	ARG	CZ-NH1	7.59	1.43	1.32
7	E	54	GLN	CA-CB	7.59	1.63	1.52
9	H	63	LEU	CA-CB	7.59	1.68	1.53
4	A	455	MET	CA-CB	-7.59	1.39	1.53
4	A	1219	THR	C-O	7.59	1.33	1.24
4	A	841	LEU	C-N	-7.58	1.26	1.34
4	A	938	LYS	C-O	7.58	1.33	1.24
4	A	874	ASP	CA-C	7.58	1.62	1.52
4	A	567	LYS	CA-C	7.58	1.62	1.52
7	E	20	LYS	CB-CG	7.58	1.75	1.52
7	E	24	LYS	N-CA	-7.58	1.37	1.46
7	E	215	MET	CG-SD	7.58	1.99	1.80
5	B	1009	ASP	CB-CG	7.58	1.71	1.52
4	A	66	LYS	N-CA	7.58	1.55	1.46
4	A	265	LYS	CE-NZ	7.58	1.72	1.49
5	B	241	ARG	CD-NE	7.58	1.56	1.46
6	C	268	ASP	CB-CG	7.57	1.71	1.52
5	B	356	LEU	CA-C	7.57	1.63	1.53
9	H	58	THR	CA-CB	-7.57	1.40	1.53
4	A	1032	LEU	CA-CB	7.57	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	F	140	ASP	CB-CG	7.57	1.71	1.52
4	A	1059	HIS	C-N	-7.57	1.24	1.33
5	B	385	LEU	CA-C	7.57	1.62	1.52
4	A	826	ASP	CA-CB	7.56	1.65	1.53
5	B	411	PRO	CA-CB	-7.56	1.43	1.53
5	B	1098	MET	CB-CG	7.56	1.75	1.52
4	A	363	GLN	N-CA	-7.56	1.36	1.45
5	B	423	LYS	CA-CB	-7.55	1.41	1.53
6	C	122	SER	CA-CB	7.55	1.65	1.53
10	I	107	SER	CB-OG	7.55	1.57	1.42
4	A	373	THR	CA-C	-7.55	1.42	1.52
4	A	1031	VAL	N-CA	-7.55	1.38	1.46
4	A	407	ARG	CA-C	-7.55	1.42	1.52
4	A	1108	ALA	C-O	7.55	1.33	1.24
4	A	1137	ALA	N-CA	-7.55	1.36	1.45
4	A	49	LYS	CA-CB	7.54	1.64	1.52
4	A	393	ARG	CG-CD	7.54	1.75	1.52
5	B	291	ILE	CA-C	7.54	1.61	1.53
9	H	117	SER	N-CA	7.54	1.55	1.46
10	I	17	ARG	N-CA	7.54	1.55	1.46
5	B	346	GLU	CA-C	7.54	1.62	1.52
11	J	51	LEU	C-O	-7.54	1.14	1.24
4	A	902	LEU	CA-CB	7.54	1.66	1.53
5	B	470	LYS	CA-C	7.54	1.62	1.52
10	I	11	ASN	CA-C	-7.54	1.42	1.52
10	I	30	ARG	C-O	7.54	1.35	1.24
4	A	644	LYS	CE-NZ	7.54	1.72	1.49
5	B	844	SER	C-O	-7.53	1.15	1.24
9	H	82	PRO	N-CA	7.53	1.56	1.47
12	K	47	ARG	CG-CD	7.53	1.75	1.52
10	I	85	PHE	CE2-CZ	-7.53	1.16	1.38
5	B	864	LYS	C-N	7.53	1.43	1.34
12	K	1	MET	N-CA	7.53	1.60	1.46
5	B	209	GLU	N-CA	-7.53	1.36	1.46
5	B	490	SER	CA-C	-7.53	1.43	1.52
10	I	22	ASN	N-CA	7.53	1.55	1.46
4	A	785	PRO	CA-CB	-7.52	1.43	1.53
5	B	620	ARG	CG-CD	7.52	1.75	1.52
5	B	861	ASP	C-O	7.52	1.33	1.23
6	C	136	ASP	CA-CB	7.52	1.66	1.53
6	C	243	VAL	CA-CB	-7.52	1.44	1.54
4	A	884	ASP	CA-C	-7.52	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1045	VAL	CA-C	-7.52	1.43	1.52
5	B	513	GLN	CA-C	-7.52	1.42	1.52
5	B	655	LYS	N-CA	7.52	1.55	1.46
4	A	830	LYS	CA-CB	7.52	1.66	1.53
4	A	1019	CYS	CA-C	-7.52	1.42	1.52
9	H	114	VAL	CB-CG1	7.52	1.77	1.52
9	H	126	GLU	C-N	7.51	1.44	1.33
11	J	25	LEU	CB-CG	-7.51	1.38	1.53
4	A	461	LYS	CD-CE	7.51	1.75	1.52
4	A	104	GLU	CG-CD	7.51	1.70	1.52
4	A	306	ASN	CA-CB	-7.51	1.40	1.53
4	A	403	LYS	CA-C	-7.51	1.43	1.52
4	A	1227	ILE	CA-CB	-7.51	1.44	1.54
5	B	1064	TYR	CA-C	7.51	1.62	1.52
11	J	57	ILE	CB-CG2	7.51	1.77	1.52
4	A	344	ARG	CA-CB	-7.50	1.41	1.53
4	A	1306	LEU	N-CA	-7.50	1.36	1.45
5	B	125	SER	C-O	7.50	1.32	1.23
7	E	71	LYS	CB-CG	7.50	1.75	1.52
7	E	95	THR	CA-CB	7.50	1.65	1.53
9	H	80	ARG	CB-CG	7.50	1.75	1.52
4	A	238	CYS	N-CA	7.50	1.55	1.46
5	B	531	GLN	CG-CD	7.49	1.70	1.52
5	B	1051	THR	N-CA	-7.49	1.36	1.45
4	A	759	ALA	CA-C	7.49	1.62	1.52
5	B	745	PRO	CA-C	-7.49	1.41	1.52
2	T	12	DC	C3'-O3'	7.48	1.65	1.42
4	A	406	ILE	CB-CG2	-7.48	1.27	1.52
4	A	532	ARG	CD-NE	7.48	1.56	1.46
4	A	980	ASP	C-O	-7.48	1.14	1.24
5	B	1211	ASN	CA-CB	7.48	1.64	1.53
5	B	1221	SER	N-CA	7.48	1.55	1.46
12	K	34	THR	CB-CG2	7.48	1.77	1.52
10	I	43	VAL	CA-C	-7.48	1.43	1.52
4	A	791	ASP	N-CA	7.48	1.55	1.46
4	A	1081	LEU	CG-CD2	7.48	1.77	1.52
5	B	891	ASP	CA-C	-7.48	1.42	1.52
7	E	66	GLU	CB-CG	7.48	1.74	1.52
7	E	152	LYS	CB-CG	7.47	1.74	1.52
4	A	43	GLU	CA-CB	7.47	1.64	1.53
6	C	246	ARG	CA-C	-7.47	1.42	1.52
12	K	26	LYS	N-CA	-7.47	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	H	30	SER	CA-C	7.47	1.62	1.52
5	B	828	ALA	CA-C	-7.46	1.42	1.52
4	A	600	PRO	CA-CB	-7.46	1.43	1.53
5	B	621	GLU	CA-C	7.46	1.62	1.52
5	B	781	PHE	CB-CG	-7.46	1.33	1.50
6	C	29	MET	SD-CE	7.46	1.98	1.79
8	F	101	ILE	CB-CG2	7.46	1.77	1.52
9	H	79	TRP	CA-CB	-7.46	1.43	1.53
4	A	1117	THR	CA-C	-7.45	1.44	1.52
5	B	28	GLU	CB-CG	7.45	1.74	1.52
5	B	133	LYS	CD-CE	7.45	1.74	1.52
4	A	88	LYS	N-CA	-7.45	1.35	1.46
4	A	479	ASN	CA-CB	-7.45	1.40	1.53
4	A	1071	SER	C-O	-7.45	1.14	1.24
4	A	259	GLU	CA-CB	7.45	1.65	1.53
5	B	816	GLU	CG-CD	7.45	1.70	1.52
4	A	1315	GLU	CG-CD	7.45	1.70	1.52
9	H	146	ARG	CD-NE	7.45	1.56	1.46
10	I	48	LEU	CG-CD1	7.45	1.77	1.52
4	A	708	MET	CG-SD	7.44	1.99	1.80
5	B	802	PRO	C-O	7.44	1.32	1.23
4	A	526	ASP	CB-CG	7.44	1.70	1.52
4	A	1362	TYR	N-CA	7.44	1.54	1.45
4	A	561	PRO	CA-CB	-7.44	1.43	1.53
4	A	666	ILE	CA-CB	-7.44	1.44	1.54
4	A	1198	ASP	CB-CG	7.44	1.70	1.52
4	A	724	GLU	CB-CG	7.44	1.74	1.52
4	A	144	THR	CA-CB	7.43	1.65	1.53
5	B	33	VAL	CA-CB	7.43	1.63	1.54
5	B	116	GLU	CA-CB	7.43	1.66	1.53
13	L	33	GLU	CA-C	7.43	1.62	1.52
4	A	1077	THR	CA-CB	-7.43	1.41	1.53
6	C	184	ASN	CB-CG	7.43	1.70	1.52
10	I	107	SER	C-O	7.43	1.33	1.24
5	B	542	MET	SD-CE	7.42	1.98	1.79
6	C	3	GLU	CG-CD	7.42	1.70	1.52
5	B	880	THR	C-O	7.42	1.33	1.24
12	K	35	PHE	N-CA	7.42	1.55	1.46
5	B	94	LYS	CG-CD	7.42	1.74	1.52
5	B	589	VAL	C-O	-7.42	1.14	1.23
5	B	1060	ARG	CA-CB	-7.42	1.41	1.53
4	A	1285	MET	CA-CB	7.42	1.66	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	C	266	ASP	CA-CB	7.42	1.66	1.53
4	A	175	ARG	CG-CD	7.42	1.74	1.52
4	A	204	THR	CA-CB	7.41	1.66	1.53
5	B	471	LYS	CA-CB	7.41	1.66	1.53
7	E	71	LYS	N-CA	7.41	1.55	1.46
5	B	491	THR	CA-C	7.41	1.63	1.52
13	L	66	GLN	CG-CD	7.41	1.70	1.52
4	A	1072	ILE	CA-C	7.41	1.62	1.52
5	B	636	PRO	CA-C	-7.41	1.41	1.52
7	E	19	VAL	C-O	7.41	1.32	1.24
7	E	211	TYR	CA-C	-7.41	1.44	1.52
5	B	422	LYS	CB-CG	7.41	1.74	1.52
8	F	75	PRO	CA-C	7.41	1.62	1.52
4	A	1189	SER	C-O	7.40	1.34	1.23
5	B	976	ILE	CA-C	-7.40	1.43	1.52
9	H	39	THR	CA-CB	-7.40	1.42	1.53
5	B	195	CYS	CA-C	-7.40	1.45	1.53
5	B	1162	ILE	N-CA	-7.40	1.37	1.46
6	C	9	LYS	CD-CE	7.40	1.74	1.52
4	A	1359	ASP	CB-CG	7.40	1.70	1.52
7	E	90	VAL	CB-CG1	7.40	1.76	1.52
4	A	1080	THR	C-N	7.39	1.43	1.33
4	A	1422	ARG	N-CA	7.39	1.54	1.46
5	B	1137	CYS	CA-CB	-7.39	1.41	1.53
4	A	597	LEU	CA-C	7.39	1.62	1.52
4	A	1037	LEU	CA-C	-7.39	1.42	1.52
8	F	153	VAL	CA-C	-7.39	1.44	1.52
4	A	316	GLN	CG-CD	7.39	1.70	1.52
5	B	636	PRO	C-O	-7.38	1.14	1.24
7	E	209	ALA	CA-C	-7.38	1.43	1.52
11	J	42	LYS	CG-CD	7.38	1.74	1.52
4	A	841	LEU	CA-C	-7.38	1.43	1.52
12	K	51	LEU	CB-CG	7.38	1.68	1.53
1	R	2	U	P-OP2	7.38	1.63	1.49
4	A	939	ASP	CA-C	-7.38	1.42	1.52
5	B	249	ARG	CB-CG	7.38	1.74	1.52
5	B	482	VAL	CB-CG2	-7.38	1.28	1.52
7	E	48	ASP	CA-C	7.38	1.63	1.53
4	A	1209	MET	C-O	7.38	1.33	1.24
5	B	381	MET	CG-SD	7.38	1.99	1.80
5	B	522	VAL	CB-CG1	-7.38	1.28	1.52
5	B	581	PHE	CA-CB	-7.37	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	H	89	LEU	CG-CD1	7.37	1.76	1.52
4	A	96	ILE	CA-C	-7.37	1.44	1.52
5	B	192	LEU	CB-CG	-7.37	1.38	1.53
5	B	819	ALA	CA-C	-7.37	1.43	1.52
5	B	864	LYS	CA-CB	7.37	1.66	1.53
4	A	54	ASN	CA-CB	7.37	1.66	1.53
4	A	176	LYS	CG-CD	7.37	1.74	1.52
5	B	269	ILE	CA-CB	-7.37	1.45	1.54
6	C	63	ILE	N-CA	-7.37	1.38	1.46
7	E	84	ASP	CA-C	7.37	1.62	1.52
12	K	114	LEU	CB-CG	7.37	1.68	1.53
5	B	767	ASN	C-O	-7.37	1.15	1.24
7	E	42	PHE	CD2-CE2	7.37	1.60	1.38
5	B	957	ASN	CB-CG	7.36	1.70	1.52
13	L	44	ASP	N-CA	7.36	1.54	1.46
4	A	212	LYS	N-CA	7.36	1.55	1.46
7	E	136	ASN	N-CA	-7.36	1.36	1.46
4	A	1212	VAL	CA-C	-7.36	1.43	1.52
5	B	892	LYS	CG-CD	7.36	1.74	1.52
9	H	24	CYS	CA-CB	7.36	1.65	1.53
4	A	895	LYS	N-CA	7.35	1.55	1.46
5	B	951	GLN	CD-OE1	7.35	1.37	1.23
6	C	203	GLN	N-CA	7.35	1.55	1.46
4	A	603	ASN	CB-CG	-7.35	1.33	1.52
4	A	1256	GLU	N-CA	7.35	1.55	1.46
6	C	39	ALA	CA-CB	-7.35	1.43	1.53
9	H	15	VAL	N-CA	7.35	1.55	1.46
8	F	109	VAL	CA-C	-7.35	1.43	1.52
5	B	812	LEU	CG-CD1	7.35	1.76	1.52
6	C	84	ARG	CB-CG	7.35	1.74	1.52
4	A	1079	MET	SD-CE	7.34	1.98	1.79
4	A	1129	GLU	CG-CD	7.34	1.70	1.52
5	B	56	ASP	CB-CG	7.34	1.70	1.52
5	B	314	LEU	CA-C	-7.34	1.42	1.52
4	A	607	ILE	CB-CG2	7.34	1.76	1.52
5	B	538	ASN	CG-ND2	7.34	1.48	1.33
5	B	982	SER	CA-CB	-7.34	1.41	1.53
6	C	205	LYS	CA-C	-7.34	1.43	1.52
13	L	36	SER	N-CA	7.34	1.55	1.46
4	A	804	TYR	CA-C	-7.34	1.42	1.52
4	A	1266	THR	CA-C	-7.34	1.42	1.52
7	E	201	LYS	CA-CB	7.34	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	871	ASP	CA-CB	7.33	1.69	1.53
5	B	332	ASP	CB-CG	7.33	1.70	1.52
8	F	151	LEU	C-O	-7.33	1.15	1.23
4	A	321	PRO	N-CD	-7.33	1.37	1.47
5	B	601	ARG	CB-CG	7.33	1.74	1.52
4	A	1095	THR	C-O	7.33	1.33	1.24
11	J	29	GLU	CA-C	7.33	1.60	1.53
5	B	658	ILE	N-CA	-7.33	1.35	1.46
4	A	73	GLY	CA-C	-7.33	1.42	1.52
4	A	461	LYS	CG-CD	7.33	1.74	1.52
5	B	623	GLU	CA-CB	-7.33	1.42	1.53
8	F	93	ILE	CA-C	7.32	1.62	1.52
9	H	38	LEU	N-CA	7.32	1.55	1.46
4	A	560	ILE	CA-CB	-7.32	1.44	1.54
4	A	656	TRP	CB-CG	-7.32	1.27	1.50
5	B	431	TYR	CD1-CE1	7.32	1.60	1.38
7	E	133	GLU	N-CA	7.32	1.55	1.46
4	A	981	LEU	CG-CD1	7.32	1.76	1.52
4	A	1022	LEU	CG-CD2	7.32	1.76	1.52
6	C	15	LYS	C-O	7.32	1.33	1.24
5	B	633	VAL	CA-CB	-7.32	1.42	1.54
5	B	459	TYR	CA-C	-7.32	1.42	1.52
5	B	1009	ASP	CA-C	7.32	1.62	1.52
7	E	18	THR	N-CA	-7.32	1.37	1.46
4	A	265	LYS	CG-CD	7.32	1.74	1.52
10	I	13	MET	CG-SD	7.32	1.99	1.80
5	B	695	ALA	N-CA	7.31	1.55	1.46
5	B	936	ASP	N-CA	-7.31	1.36	1.46
5	B	869	SER	N-CA	7.31	1.55	1.46
5	B	1176	ASN	N-CA	7.31	1.55	1.46
4	A	77	CYS	C-N	7.31	1.42	1.33
4	A	741	ASN	CA-C	-7.31	1.43	1.52
4	A	777	PHE	CA-CB	-7.31	1.40	1.53
5	B	833	TYR	C-O	-7.31	1.11	1.23
5	B	326	ASP	CA-CB	-7.30	1.41	1.53
5	B	1049	ASP	CB-CG	7.30	1.70	1.52
9	H	38	LEU	CA-C	7.30	1.62	1.52
4	A	765	VAL	C-O	-7.30	1.15	1.24
4	A	524	VAL	CB-CG1	7.30	1.76	1.52
5	B	334	ILE	CB-CG2	-7.30	1.28	1.52
10	I	71	SER	CA-C	-7.30	1.43	1.53
5	B	850	LEU	N-CA	-7.30	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1007	ILE	C-O	-7.30	1.17	1.24
5	B	943	SER	CA-CB	7.30	1.65	1.53
5	B	335	GLY	N-CA	7.29	1.57	1.45
6	C	50	GLU	CA-C	-7.29	1.43	1.52
5	B	1159	ARG	C-O	-7.29	1.15	1.23
4	A	1078	GLN	CA-CB	-7.29	1.43	1.54
7	E	42	PHE	CD1-CE1	7.29	1.60	1.38
4	A	1387	HIS	CA-CB	-7.29	1.44	1.53
5	B	979	LYS	CA-CB	-7.29	1.41	1.53
8	F	119	ARG	CB-CG	7.29	1.74	1.52
12	K	55	LYS	CA-CB	7.29	1.63	1.53
7	E	86	PRO	CA-C	7.28	1.62	1.52
4	A	288	ALA	CA-C	7.28	1.62	1.52
10	I	62	ILE	CA-C	-7.28	1.43	1.52
9	H	132	LEU	CG-CD1	7.28	1.76	1.52
4	A	1281	ARG	N-CA	7.28	1.55	1.46
5	B	536	VAL	CB-CG1	-7.28	1.28	1.52
9	H	135	LEU	N-CA	-7.28	1.36	1.46
5	B	398	ARG	N-CA	7.27	1.55	1.46
5	B	59	LEU	CG-CD2	7.27	1.76	1.52
9	H	121	LEU	CA-C	7.27	1.62	1.52
7	E	29	PHE	CA-C	-7.27	1.43	1.52
5	B	987	LYS	CG-CD	7.27	1.74	1.52
4	A	1165	GLU	CB-CG	7.27	1.74	1.52
5	B	1148	LYS	CD-CE	7.27	1.74	1.52
4	A	1257	ASP	CB-CG	-7.26	1.33	1.52
5	B	694	ASP	CA-CB	7.26	1.64	1.53
6	C	148	ARG	C-O	-7.26	1.16	1.24
4	A	1102	LYS	CB-CG	7.26	1.74	1.52
4	A	108	MET	CA-CB	7.26	1.65	1.53
4	A	176	LYS	CD-CE	7.26	1.74	1.52
5	B	382	ILE	CA-C	-7.26	1.43	1.52
12	K	10	PHE	N-CA	7.26	1.54	1.46
5	B	209	GLU	C-O	-7.26	1.15	1.24
4	A	897	TYR	C-O	7.26	1.33	1.24
4	A	938	LYS	N-CA	7.26	1.55	1.46
4	A	400	PRO	CA-C	-7.25	1.42	1.52
7	E	163	GLU	N-CA	7.25	1.55	1.46
4	A	1257	ASP	CA-C	-7.25	1.43	1.52
5	B	577	ALA	CA-C	-7.25	1.43	1.53
6	C	169	LYS	N-CA	-7.25	1.36	1.46
10	I	59	VAL	CB-CG2	-7.25	1.28	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	41	LYS	CG-CD	7.25	1.74	1.52
4	A	104	GLU	CA-CB	7.25	1.65	1.53
4	A	788	SER	CA-C	7.25	1.62	1.52
4	A	551	TYR	CE2-CZ	7.25	1.55	1.38
5	B	119	LEU	CA-C	-7.25	1.42	1.52
6	C	100	THR	N-CA	-7.25	1.36	1.45
6	C	209	TYR	CE2-CZ	7.25	1.55	1.38
4	A	1074	GLU	N-CA	-7.25	1.35	1.46
4	A	109	HIS	N-CA	7.24	1.55	1.46
4	A	352	VAL	CA-CB	-7.24	1.44	1.54
4	A	878	ILE	CA-C	-7.24	1.44	1.52
12	K	33	ILE	CA-C	-7.24	1.44	1.53
4	A	524	VAL	C-O	-7.24	1.16	1.23
4	A	752	LYS	CA-CB	-7.24	1.42	1.53
5	B	747	MET	CA-C	-7.24	1.41	1.52
6	C	90	ASP	CA-C	7.24	1.62	1.52
5	B	22	SER	CA-C	-7.23	1.43	1.52
5	B	208	SER	CA-C	-7.23	1.43	1.52
10	I	8	ARG	CD-NE	7.23	1.56	1.46
12	K	114	LEU	N-CA	7.23	1.59	1.46
5	B	183	GLU	CA-C	-7.23	1.42	1.52
5	B	756	ILE	CA-CB	-7.23	1.44	1.54
8	F	73	ALA	CA-C	7.23	1.62	1.52
9	H	107	VAL	N-CA	7.23	1.55	1.46
12	K	112	GLN	CA-CB	7.23	1.64	1.53
4	A	975	HIS	C-O	7.22	1.33	1.23
12	K	45	LEU	CA-CB	-7.22	1.41	1.53
4	A	781	ASP	CA-CB	7.22	1.64	1.53
4	A	1303	GLU	CA-CB	7.22	1.65	1.53
5	B	522	VAL	CB-CG2	-7.22	1.28	1.52
4	A	1170	ILE	CA-CB	-7.21	1.48	1.55
5	B	1105	ALA	CA-CB	-7.21	1.41	1.53
4	A	1353	TYR	N-CA	-7.21	1.36	1.46
5	B	415	GLN	CG-CD	7.21	1.70	1.52
4	A	154	SER	N-CA	7.21	1.59	1.46
4	A	1010	ALA	CA-C	-7.21	1.44	1.52
5	B	778	MET	N-CA	-7.21	1.37	1.45
6	C	29	MET	CG-SD	7.21	1.98	1.80
6	C	120	ILE	N-CA	-7.21	1.37	1.46
7	E	152	LYS	CD-CE	7.21	1.74	1.52
9	H	33	GLN	N-CA	7.21	1.55	1.46
4	A	230	ARG	N-CA	7.21	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	880	LYS	CG-CD	7.21	1.74	1.52
4	A	1018	PHE	CA-CB	7.21	1.64	1.53
4	A	756	ILE	N-CA	-7.20	1.37	1.46
4	A	1021	LEU	CB-CG	-7.20	1.39	1.53
4	A	1299	VAL	N-CA	7.20	1.56	1.46
9	H	2	SER	N-CA	7.20	1.59	1.46
6	C	129	ILE	N-CA	-7.20	1.37	1.46
7	E	85	GLU	CG-CD	7.20	1.70	1.52
10	I	74	GLU	CG-CD	7.20	1.70	1.52
4	A	1233	ASP	CA-CB	7.20	1.64	1.53
9	H	60	ALA	CA-C	7.20	1.62	1.52
5	B	825	VAL	CB-CG1	7.20	1.76	1.52
5	B	1062	HIS	CA-C	-7.20	1.43	1.52
8	F	102	SER	CA-C	7.19	1.62	1.52
4	A	366	VAL	CA-CB	-7.19	1.44	1.54
5	B	1219	ASP	CA-CB	7.19	1.64	1.53
4	A	500	GLU	CA-C	-7.19	1.42	1.52
5	B	879	ARG	N-CA	-7.19	1.36	1.46
11	J	44	TYR	CD1-CE1	7.19	1.60	1.38
4	A	724	GLU	C-O	-7.19	1.15	1.24
5	B	221	ASN	C-O	7.19	1.33	1.23
5	B	972	LYS	CA-C	-7.19	1.44	1.52
6	C	33	LEU	N-CA	-7.19	1.37	1.46
5	B	97	VAL	CA-CB	-7.18	1.45	1.54
5	B	637	LEU	C-O	-7.18	1.09	1.23
4	A	185	TRP	CA-CB	7.18	1.65	1.53
4	A	915	SER	N-CA	7.18	1.55	1.46
4	A	571	LEU	CA-CB	7.18	1.66	1.53
10	I	106	CYS	CA-C	7.18	1.62	1.52
4	A	379	VAL	CA-CB	-7.18	1.45	1.54
9	H	57	VAL	CA-C	-7.18	1.43	1.52
4	A	37	PHE	CD2-CE2	7.17	1.60	1.38
4	A	1014	ALA	CA-C	7.17	1.62	1.52
9	H	135	LEU	CB-CG	7.17	1.67	1.53
6	C	69	LEU	CA-C	-7.17	1.42	1.52
5	B	665	GLU	N-CA	7.17	1.55	1.46
5	B	756	ILE	N-CA	7.17	1.55	1.46
5	B	1199	ALA	CA-CB	7.17	1.64	1.53
4	A	129	LYS	CD-CE	7.17	1.74	1.52
5	B	509	ALA	C-O	7.17	1.37	1.23
6	C	257	SER	CA-CB	7.17	1.66	1.53
4	A	212	LYS	CA-C	7.16	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	H	14	GLU	N-CA	7.16	1.54	1.46
4	A	309	ALA	CA-C	7.16	1.62	1.52
5	B	308	TRP	N-CA	-7.16	1.36	1.46
5	B	386	LEU	CA-CB	7.16	1.65	1.53
13	L	42	ARG	CD-NE	7.16	1.56	1.46
5	B	490	SER	CA-CB	-7.16	1.43	1.54
4	A	1034	GLU	CA-CB	7.15	1.66	1.54
4	A	1322	ILE	CA-CB	-7.15	1.45	1.54
5	B	786	ASN	CA-C	-7.15	1.42	1.52
4	A	1311	VAL	N-CA	-7.15	1.36	1.46
12	K	57	LEU	CA-CB	7.15	1.64	1.53
5	B	359	GLU	N-CA	7.15	1.53	1.46
9	H	21	ASN	N-CA	7.14	1.54	1.46
4	A	1282	VAL	CA-CB	7.14	1.64	1.54
5	B	52	ASN	CB-CG	-7.14	1.34	1.52
5	B	237	VAL	CA-C	-7.14	1.43	1.52
5	B	813	LYS	CD-CE	7.14	1.73	1.52
7	E	10	SER	CA-C	-7.14	1.43	1.52
4	A	551	TYR	CD2-CE2	7.14	1.60	1.38
4	A	975	HIS	N-CA	7.14	1.56	1.46
4	A	875	ALA	CA-C	-7.14	1.43	1.52
4	A	774	ARG	C-N	-7.14	1.25	1.33
5	B	450	ALA	N-CA	7.14	1.55	1.46
4	A	172	PRO	CA-C	-7.13	1.45	1.52
4	A	572	TRP	CA-C	7.13	1.62	1.53
4	A	582	ILE	CA-C	-7.13	1.47	1.53
10	I	32	CYS	CA-C	7.13	1.56	1.52
5	B	111	ALA	CA-C	7.13	1.62	1.52
5	B	832	GLY	CA-C	7.13	1.60	1.51
5	B	164	LYS	N-CA	7.13	1.59	1.46
5	B	312	GLU	CA-C	-7.13	1.43	1.52
5	B	606	LYS	CE-NZ	7.13	1.70	1.49
5	B	1191	ILE	CA-C	7.13	1.61	1.52
7	E	178	ILE	C-O	7.13	1.32	1.23
8	F	98	ALA	CA-CB	-7.13	1.42	1.53
7	E	71	LYS	CA-C	7.13	1.62	1.53
6	C	261	ALA	CA-C	7.12	1.62	1.52
4	A	1149	ALA	C-O	7.12	1.32	1.23
4	A	1373	ASP	N-CA	-7.12	1.37	1.46
5	B	210	LYS	CD-CE	7.12	1.73	1.52
6	C	165	LYS	CB-CG	7.12	1.73	1.52
6	C	44	LEU	CA-C	-7.12	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	I	99	LEU	CA-CB	-7.12	1.41	1.53
6	C	122	SER	C-O	7.11	1.33	1.23
5	B	541	LEU	CA-CB	7.11	1.64	1.53
10	I	120	GLN	CA-CB	7.11	1.67	1.53
6	C	176	ILE	CA-C	-7.11	1.43	1.52
6	C	176	ILE	N-CA	-7.11	1.37	1.46
5	B	1009	ASP	C-O	7.11	1.33	1.23
5	B	261	ARG	N-CA	7.11	1.55	1.45
5	B	422	LYS	C-O	-7.11	1.15	1.24
5	B	835	GLN	CA-C	-7.11	1.44	1.52
6	C	232	VAL	CB-CG1	-7.11	1.29	1.52
5	B	1160	VAL	C-O	7.10	1.31	1.23
6	C	110	THR	N-CA	7.10	1.55	1.46
12	K	108	GLU	CG-CD	7.10	1.69	1.52
4	A	337	ARG	CA-CB	-7.10	1.42	1.53
4	A	641	VAL	N-CA	-7.10	1.38	1.46
5	B	427	ASP	CA-C	-7.10	1.43	1.52
5	B	1018	PRO	CA-CB	-7.10	1.43	1.53
5	B	585	VAL	CA-CB	-7.10	1.45	1.54
6	C	233	GLU	CG-CD	7.10	1.69	1.52
13	L	49	LYS	CA-CB	7.10	1.66	1.53
7	E	75	MET	SD-CE	7.10	1.97	1.79
7	E	91	LYS	CA-C	7.10	1.61	1.52
11	J	3	VAL	CB-CG2	7.10	1.75	1.52
4	A	715	GLU	CA-C	-7.10	1.43	1.52
5	B	487	THR	CA-C	-7.09	1.44	1.52
6	C	4	GLU	CB-CG	7.09	1.73	1.52
4	A	1289	ARG	CG-CD	7.09	1.73	1.52
5	B	392	ARG	CA-CB	-7.09	1.41	1.53
5	B	635	ARG	CA-CB	-7.09	1.42	1.53
13	L	64	LEU	CG-CD2	7.09	1.75	1.52
5	B	190	TYR	CA-C	-7.09	1.43	1.52
5	B	609	ILE	CA-CB	-7.09	1.44	1.54
5	B	1021	MET	C-N	-7.09	1.24	1.33
4	A	202	LEU	CA-CB	7.09	1.62	1.53
10	I	109	ILE	CA-C	-7.09	1.43	1.52
4	A	987	VAL	C-O	-7.08	1.15	1.24
4	A	1288	ASP	CB-CG	7.08	1.69	1.52
4	A	1294	PRO	CA-CB	7.08	1.63	1.53
5	B	524	PRO	CA-CB	-7.08	1.44	1.53
4	A	150	THR	CB-CG2	7.08	1.75	1.52
4	A	207	ILE	CA-CB	-7.08	1.44	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1217	LYS	CG-CD	7.08	1.73	1.52
5	B	189	LEU	CA-C	-7.08	1.43	1.52
5	B	563	MET	SD-CE	-7.08	1.61	1.79
5	B	1188	LYS	CB-CG	7.08	1.73	1.52
7	E	212	ARG	CA-CB	-7.08	1.42	1.53
4	A	380	VAL	CA-CB	-7.08	1.44	1.54
9	H	144	ILE	CB-CG2	7.08	1.75	1.52
4	A	1395	GLY	CA-C	7.07	1.61	1.51
4	A	1438	THR	CB-CG2	7.07	1.75	1.52
9	H	4	THR	CA-C	-7.07	1.43	1.52
10	I	93	LYS	CD-CE	7.07	1.73	1.52
5	B	399	ASP	CA-C	-7.07	1.41	1.52
5	B	1092	TYR	CE1-CZ	7.07	1.55	1.38
5	B	177	LYS	CB-CG	7.06	1.73	1.52
7	E	16	PHE	CE2-CZ	7.06	1.59	1.38
12	K	20	LYS	CA-CB	7.06	1.65	1.53
10	I	28	GLU	C-O	-7.06	1.15	1.24
4	A	812	GLU	CA-CB	7.06	1.64	1.53
5	B	328	GLU	CG-CD	7.06	1.69	1.52
7	E	138	ALA	C-O	7.06	1.32	1.24
4	A	200	ARG	CB-CG	7.06	1.73	1.52
5	B	904	ARG	N-CA	-7.06	1.37	1.46
5	B	967	ARG	CA-CB	-7.06	1.42	1.53
6	C	260	LEU	CG-CD2	7.06	1.75	1.52
4	A	1426	GLU	CA-C	-7.05	1.43	1.52
5	B	581	PHE	CA-C	7.05	1.60	1.52
4	A	866	PHE	CD2-CE2	7.05	1.59	1.38
5	B	283	VAL	C-O	-7.05	1.16	1.24
5	B	567	GLU	CB-CG	7.05	1.73	1.52
4	A	880	LYS	CE-NZ	7.04	1.70	1.49
5	B	311	LEU	N-CA	-7.04	1.37	1.46
5	B	1203	LEU	N-CA	-7.04	1.37	1.46
9	H	63	LEU	CB-CG	7.04	1.67	1.53
4	A	1327	ILE	CA-CB	-7.04	1.44	1.54
12	K	13	GLY	CA-C	7.04	1.61	1.51
7	E	71	LYS	CA-CB	7.04	1.65	1.53
10	I	19	ASP	CA-C	7.04	1.62	1.52
5	B	647	GLY	N-CA	7.04	1.55	1.45
4	A	1291	VAL	CA-C	-7.04	1.45	1.52
5	B	428	ILE	CA-CB	-7.04	1.44	1.54
5	B	426	LYS	CE-NZ	7.04	1.70	1.49
5	B	1079	LYS	CD-CE	7.04	1.73	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	317	CYS	N-CA	-7.03	1.38	1.46
5	B	1201	LYS	CD-CE	7.03	1.73	1.52
10	I	8	ARG	N-CA	7.03	1.55	1.46
4	A	326	ARG	C-O	-7.03	1.15	1.24
4	A	1070	GLN	CA-C	-7.03	1.43	1.52
7	E	66	GLU	CA-C	7.03	1.63	1.52
12	K	112	GLN	CB-CG	7.03	1.73	1.52
7	E	73	PRO	C-O	-7.03	1.14	1.24
4	A	906	HIS	CA-C	7.02	1.68	1.52
5	B	1023	VAL	CB-CG2	-7.02	1.29	1.52
4	A	1026	LEU	CG-CD2	7.02	1.75	1.52
6	C	70	ILE	N-CA	-7.02	1.38	1.46
7	E	174	GLN	CA-C	7.02	1.62	1.52
10	I	22	ASN	CB-CG	7.02	1.69	1.52
4	A	1077	THR	N-CA	-7.02	1.37	1.46
5	B	876	LYS	CA-C	-7.02	1.45	1.52
10	I	59	VAL	CA-CB	-7.02	1.45	1.54
12	K	54	ARG	CD-NE	7.02	1.56	1.46
4	A	866	PHE	CA-C	7.01	1.62	1.52
5	B	90	ILE	CA-C	7.01	1.67	1.52
7	E	50	MET	CG-SD	7.01	1.98	1.80
1	R	2	U	C3'-O3'	-7.01	1.31	1.42
4	A	337	ARG	CZ-NH1	7.01	1.42	1.32
4	A	1112	LYS	CA-CB	7.01	1.64	1.53
5	B	280	ILE	CA-C	-7.01	1.45	1.52
10	I	30	ARG	CG-CD	7.01	1.73	1.52
4	A	257	ARG	C-N	7.01	1.42	1.33
4	A	482	PHE	C-O	-7.01	1.15	1.23
4	A	673	GLY	CA-C	7.01	1.61	1.51
7	E	78	LEU	N-CA	7.01	1.54	1.45
7	E	119	SER	CA-C	7.01	1.62	1.52
13	L	50	ASP	CA-CB	7.01	1.65	1.53
4	A	123	ARG	CG-CD	7.00	1.73	1.52
6	C	264	GLN	CA-CB	7.00	1.65	1.53
5	B	370	PHE	CB-CG	7.00	1.66	1.50
5	B	1097	HIS	C-O	7.00	1.32	1.24
12	K	28	PRO	N-CA	7.00	1.56	1.47
5	B	643	ASP	CB-CG	7.00	1.69	1.52
4	A	481	ASP	CA-CB	7.00	1.63	1.53
5	B	252	SER	CA-CB	7.00	1.63	1.53
4	A	1338	VAL	CA-CB	-7.00	1.45	1.54
4	A	24	PRO	CA-C	-6.99	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	891	ALA	CA-CB	6.99	1.64	1.53
4	A	934	LYS	CE-NZ	6.99	1.70	1.49
4	A	734	GLU	CG-CD	6.99	1.69	1.52
4	A	1108	ALA	CA-CB	-6.99	1.41	1.53
5	B	483	LEU	C-N	6.99	1.44	1.33
5	B	803	LEU	CA-CB	-6.99	1.41	1.53
4	A	1170	ILE	CA-C	6.99	1.63	1.53
7	E	180	ARG	CG-CD	6.99	1.73	1.52
5	B	174	LEU	CA-C	-6.98	1.43	1.52
4	A	1257	ASP	CA-CB	-6.98	1.41	1.53
5	B	28	GLU	CG-CD	6.98	1.69	1.52
5	B	229	ALA	CA-CB	6.98	1.65	1.53
4	A	174	ILE	CA-C	6.97	1.60	1.52
4	A	784	LEU	C-O	-6.97	1.15	1.24
5	B	784	ASN	CB-CG	6.97	1.69	1.52
5	B	61	ASP	CB-CG	6.97	1.69	1.52
7	E	91	LYS	CB-CG	6.97	1.73	1.52
4	A	1196	GLU	CA-C	6.97	1.62	1.52
5	B	1133	MET	CA-C	6.97	1.61	1.52
4	A	698	GLN	CD-OE1	6.97	1.36	1.23
4	A	417	TYR	CA-C	6.97	1.63	1.53
4	A	555	ASP	N-CA	-6.97	1.38	1.46
4	A	728	LYS	CG-CD	6.96	1.73	1.52
4	A	923	LEU	CA-CB	-6.96	1.41	1.53
5	B	275	TYR	CG-CD1	6.96	1.53	1.39
7	E	126	SER	CA-CB	6.96	1.64	1.53
5	B	622	LYS	CA-C	6.96	1.62	1.53
10	I	45	ARG	CG-CD	6.96	1.73	1.52
10	I	51	ASN	CB-CG	6.96	1.69	1.52
4	A	263	THR	CA-CB	6.96	1.64	1.53
4	A	1424	VAL	CB-CG2	-6.96	1.29	1.52
7	E	91	LYS	CA-CB	6.96	1.64	1.53
4	A	256	GLN	C-O	6.95	1.31	1.23
4	A	1003	LYS	N-CA	6.95	1.55	1.46
5	B	640	VAL	CA-C	6.95	1.61	1.52
13	L	67	PHE	CA-C	-6.95	1.44	1.52
9	H	12	VAL	N-CA	-6.95	1.38	1.46
4	A	399	HIS	CA-CB	6.95	1.64	1.53
5	B	743	ILE	C-O	6.94	1.32	1.24
11	J	46	CYS	C-O	-6.94	1.16	1.24
10	I	115	LYS	CG-CD	6.94	1.73	1.52
4	A	419	LYS	C-O	6.94	1.32	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	34	ILE	CA-C	-6.94	1.44	1.52
5	B	244	LEU	CG-CD2	6.94	1.75	1.52
5	B	830	TYR	CA-C	-6.94	1.43	1.52
4	A	720	ARG	C-O	-6.94	1.15	1.24
5	B	346	GLU	N-CA	6.94	1.55	1.46
5	B	536	VAL	C-O	-6.94	1.14	1.23
5	B	666	TYR	CD2-CE2	6.94	1.59	1.38
5	B	727	LYS	CE-NZ	6.94	1.70	1.49
5	B	628	THR	CA-C	6.94	1.63	1.52
4	A	470	LEU	CG-CD2	6.93	1.75	1.52
4	A	994	GLN	CA-C	6.93	1.62	1.52
5	B	318	VAL	CA-CB	-6.93	1.45	1.54
5	B	231	PRO	N-CD	6.93	1.57	1.47
5	B	1059	LEU	C-O	-6.93	1.16	1.24
4	A	838	GLN	CA-C	-6.93	1.43	1.52
5	B	230	ALA	N-CA	-6.93	1.36	1.46
5	B	855	PHE	CA-CB	-6.93	1.42	1.52
5	B	176	SER	CA-CB	6.92	1.63	1.53
9	H	17	PRO	C-O	6.92	1.32	1.24
6	C	58	LEU	CA-CB	6.92	1.64	1.53
6	C	238	ILE	C-O	-6.92	1.15	1.24
6	C	75	MET	CG-SD	6.92	1.98	1.80
8	F	87	LYS	CE-NZ	6.92	1.70	1.49
5	B	211	VAL	CA-C	-6.92	1.44	1.52
4	A	1118	VAL	CB-CG1	6.92	1.75	1.52
4	A	1429	ILE	N-CA	-6.92	1.38	1.46
5	B	422	LYS	CG-CD	6.92	1.73	1.52
5	B	234	ILE	CA-CB	-6.92	1.44	1.54
4	A	424	ILE	CA-CB	-6.91	1.45	1.54
4	A	431	LYS	CD-CE	6.91	1.73	1.52
4	A	1055	ARG	CB-CG	6.91	1.73	1.52
4	A	1117	THR	CA-CB	-6.91	1.41	1.53
4	A	588	LEU	CA-C	-6.91	1.44	1.52
4	A	709	THR	N-CA	-6.91	1.37	1.46
4	A	199	LEU	CA-C	6.91	1.67	1.52
4	A	763	ALA	N-CA	6.91	1.50	1.46
5	B	232	SER	CA-C	-6.91	1.45	1.52
6	C	118	LEU	CA-C	6.91	1.62	1.53
4	A	394	ASN	CB-CG	-6.91	1.34	1.52
7	E	192	ARG	CA-C	6.91	1.62	1.52
10	I	68	LEU	N-CA	-6.91	1.35	1.46
10	I	91	ARG	CG-CD	6.91	1.73	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	F	105	ALA	CA-CB	6.90	1.64	1.53
4	A	1417	GLU	N-CA	-6.90	1.36	1.45
12	K	57	LEU	CG-CD2	6.90	1.75	1.52
12	K	66	PRO	CA-C	-6.90	1.41	1.52
4	A	1242	VAL	CA-C	6.90	1.61	1.52
5	B	36	ALA	C-O	-6.90	1.15	1.24
5	B	475	SER	C-O	6.90	1.32	1.24
4	A	833	GLU	C-O	6.90	1.32	1.24
10	I	6	PHE	CA-C	6.90	1.60	1.52
11	J	17	LYS	CD-CE	6.90	1.73	1.52
4	A	262	LEU	CA-CB	-6.90	1.42	1.53
4	A	418	SER	CA-C	-6.90	1.43	1.52
5	B	701	ILE	CA-CB	-6.90	1.45	1.54
5	B	730	ARG	CA-CB	6.90	1.63	1.53
7	E	138	ALA	CA-CB	-6.89	1.41	1.53
5	B	760	ASP	CA-C	-6.89	1.44	1.52
5	B	784	ASN	CG-ND2	6.89	1.47	1.33
4	A	481	ASP	CA-C	6.89	1.63	1.53
4	A	1357	ALA	CA-C	6.89	1.62	1.52
5	B	249	ARG	C-N	6.89	1.43	1.33
7	E	191	LYS	CA-CB	6.89	1.64	1.53
5	B	492	LEU	CG-CD1	-6.89	1.29	1.52
5	B	111	ALA	CA-CB	6.88	1.63	1.53
6	C	85	ASP	CA-CB	6.88	1.64	1.53
7	E	192	ARG	CB-CG	6.88	1.73	1.52
5	B	1169	MET	SD-CE	6.88	1.96	1.79
9	H	135	LEU	CG-CD2	6.88	1.75	1.52
5	B	416	LEU	CA-CB	-6.88	1.43	1.53
5	B	242	SER	C-O	-6.87	1.15	1.23
5	B	451	LYS	CD-CE	6.87	1.73	1.52
5	B	756	ILE	CA-C	6.87	1.60	1.52
4	A	526	ASP	C-O	6.87	1.32	1.24
5	B	210	LYS	N-CA	6.87	1.54	1.45
5	B	863	GLU	CA-C	6.87	1.61	1.52
4	A	1445	ILE	CA-C	6.87	1.67	1.52
5	B	739	THR	CB-CG2	-6.87	1.29	1.52
5	B	407	ASP	N-CA	-6.87	1.37	1.46
9	H	14	GLU	CA-CB	6.87	1.66	1.53
4	A	984	LYS	CG-CD	6.87	1.73	1.52
8	F	131	PRO	C-O	6.87	1.32	1.24
4	A	140	THR	CA-CB	-6.86	1.41	1.53
4	A	465	TYR	CA-CB	-6.86	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1337	GLU	CB-CG	6.86	1.73	1.52
8	F	149	GLU	CA-CB	6.86	1.64	1.53
5	B	1204	PHE	CA-C	-6.86	1.43	1.52
4	A	618	GLU	C-O	6.86	1.30	1.24
7	E	94	LYS	CB-CG	6.86	1.73	1.52
13	L	39	SER	CA-C	-6.86	1.43	1.52
4	A	264	PHE	CA-CB	-6.86	1.41	1.53
5	B	332	ASP	CA-CB	6.86	1.65	1.53
5	B	805	THR	C-O	-6.86	1.17	1.24
4	A	1320	PRO	CG-CD	6.85	1.74	1.50
6	C	161	LYS	CE-NZ	6.85	1.70	1.49
11	J	29	GLU	CB-CG	6.85	1.73	1.52
4	A	809	THR	CA-CB	-6.85	1.42	1.53
12	K	15	GLY	N-CA	6.85	1.55	1.45
12	K	55	LYS	CE-NZ	6.85	1.69	1.49
6	C	37	MET	SD-CE	6.84	1.96	1.79
4	A	175	ARG	CB-CG	6.84	1.73	1.52
4	A	1096	SER	CA-C	6.84	1.60	1.52
5	B	510	LYS	CD-CE	6.84	1.73	1.52
7	E	213	ILE	CA-CB	-6.84	1.43	1.55
12	K	1	MET	C-O	6.84	1.37	1.23
4	A	234	MET	SD-CE	6.84	1.96	1.79
6	C	143	LEU	CA-CB	-6.84	1.42	1.52
11	J	28	ASP	N-CA	6.84	1.54	1.46
4	A	1116	LEU	CA-CB	-6.83	1.37	1.53
5	B	824	ILE	C-O	6.83	1.31	1.24
4	A	929	LEU	CG-CD2	6.83	1.75	1.52
5	B	934	LYS	CD-CE	6.83	1.73	1.52
5	B	1064	TYR	C-O	6.83	1.32	1.23
8	F	72	LYS	N-CA	6.83	1.59	1.46
9	H	12	VAL	CA-CB	-6.83	1.45	1.54
5	B	475	SER	C-N	6.83	1.43	1.33
4	A	932	GLU	N-CA	6.83	1.54	1.46
4	A	976	THR	N-CA	6.83	1.54	1.46
10	I	61	ASP	CA-C	6.83	1.62	1.52
12	K	6	ARG	CA-CB	-6.83	1.42	1.53
4	A	536	LEU	C-O	-6.83	1.15	1.24
4	A	546	VAL	CB-CG1	6.83	1.75	1.52
4	A	1153	TYR	CA-CB	6.82	1.64	1.53
4	A	862	ASN	CA-CB	-6.82	1.42	1.53
6	C	196	ASP	CA-C	6.82	1.61	1.52
4	A	278	THR	CB-CG2	6.82	1.75	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	265	SER	N-CA	6.82	1.54	1.46
5	B	796	LEU	CG-CD2	6.82	1.75	1.52
4	A	252	PHE	CB-CG	6.82	1.66	1.50
4	A	467	THR	CA-CB	6.82	1.67	1.53
5	B	1041	GLU	CA-C	-6.82	1.43	1.52
6	C	260	LEU	C-O	-6.81	1.15	1.24
4	A	874	ASP	CB-CG	6.81	1.69	1.52
6	C	108	GLU	N-CA	-6.81	1.37	1.46
7	E	167	ARG	N-CA	-6.81	1.38	1.46
4	A	79	GLY	C-N	6.81	1.42	1.33
5	B	117	ALA	CA-C	-6.80	1.43	1.52
6	C	55	THR	CB-CG2	-6.80	1.30	1.52
4	A	360	GLU	N-CA	6.80	1.53	1.45
5	B	110	HIS	CA-C	6.80	1.62	1.53
5	B	1201	LYS	CE-NZ	6.80	1.69	1.49
6	C	231	ASN	N-CA	6.80	1.54	1.46
4	A	341	MET	N-CA	-6.80	1.37	1.46
4	A	350	ARG	N-CA	-6.80	1.37	1.46
5	B	32	ALA	CA-C	-6.79	1.43	1.52
12	K	85	ASP	CA-CB	6.79	1.64	1.53
5	B	265	SER	CA-CB	6.78	1.65	1.53
7	E	76	GLY	N-CA	6.78	1.55	1.45
4	A	390	GLN	CB-CG	6.78	1.72	1.52
4	A	1160	SER	C-O	6.78	1.32	1.23
4	A	1130	GLN	CG-CD	6.78	1.69	1.52
4	A	1394	THR	CA-C	6.78	1.61	1.52
5	B	255	GLN	CG-CD	6.78	1.69	1.52
5	B	24	PRO	C-O	-6.78	1.15	1.23
5	B	391	ASP	CB-CG	6.78	1.69	1.52
11	J	38	ARG	CB-CG	6.78	1.72	1.52
4	A	137	ALA	CA-C	6.78	1.59	1.53
10	I	11	ASN	CB-CG	6.78	1.69	1.52
11	J	59	LYS	C-O	-6.78	1.15	1.24
4	A	226	GLU	CA-CB	6.77	1.65	1.53
4	A	655	PHE	N-CA	-6.77	1.38	1.46
5	B	414	ALA	N-CA	-6.77	1.38	1.46
13	L	43	THR	N-CA	6.77	1.59	1.46
13	L	62	LYS	CA-CB	6.77	1.65	1.53
4	A	1171	GLN	CA-C	6.77	1.62	1.52
4	A	1385	THR	CB-CG2	6.77	1.74	1.52
6	C	232	VAL	CA-CB	-6.77	1.46	1.54
7	E	29	PHE	CA-CB	6.77	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	F	86	THR	CA-CB	6.77	1.64	1.53
4	A	151	ASP	CA-C	6.76	1.61	1.53
5	B	533	CYS	CA-CB	-6.76	1.42	1.53
6	C	81	GLU	CA-CB	6.76	1.64	1.53
6	C	264	GLN	C-O	6.76	1.32	1.24
9	H	31	THR	N-CA	6.76	1.54	1.45
4	A	274	ILE	CB-CG2	6.76	1.74	1.52
12	K	47	ARG	CD-NE	6.76	1.55	1.46
5	B	706	GLN	CA-CB	6.76	1.64	1.53
4	A	290	GLU	CA-C	6.76	1.61	1.52
4	A	358	ASN	CA-C	-6.76	1.43	1.52
5	B	206	ASN	CA-CB	-6.75	1.43	1.53
5	B	595	ARG	CZ-NH2	6.75	1.42	1.33
4	A	396	PRO	CB-CG	-6.75	1.15	1.49
6	C	22	LEU	C-O	-6.75	1.16	1.23
6	C	213	PRO	C-N	6.75	1.43	1.33
5	B	984	HIS	CA-CB	-6.75	1.42	1.53
5	B	1199	ALA	CA-C	6.75	1.61	1.52
4	A	790	ASP	CG-OD1	6.75	1.38	1.25
8	F	138	LEU	N-CA	6.75	1.56	1.45
5	B	266	ALA	C-O	6.75	1.32	1.24
5	B	524	PRO	CA-C	-6.74	1.41	1.52
4	A	101	LYS	CA-C	6.74	1.61	1.52
7	E	184	VAL	C-O	-6.74	1.15	1.23
9	H	87	ARG	CB-CG	6.74	1.72	1.52
5	B	358	LYS	CB-CG	6.74	1.72	1.52
9	H	52	GLN	CA-C	6.74	1.61	1.52
10	I	20	LYS	CB-CG	-6.74	1.32	1.52
4	A	782	ARG	N-CA	-6.73	1.37	1.45
5	B	480	SER	N-CA	6.73	1.54	1.46
6	C	154	LYS	N-CA	6.73	1.55	1.46
4	A	230	ARG	CG-CD	6.73	1.72	1.52
4	A	758	ILE	CA-CB	-6.73	1.45	1.54
4	A	280	GLU	CA-C	6.73	1.61	1.52
7	E	60	PHE	CA-C	6.73	1.62	1.53
10	I	108	HIS	N-CA	6.73	1.54	1.46
5	B	423	LYS	CE-NZ	6.72	1.69	1.49
9	H	3	ASN	CA-C	6.72	1.61	1.52
4	A	52	GLY	N-CA	6.72	1.55	1.45
4	A	133	LYS	CG-CD	6.72	1.72	1.52
4	A	356	ASP	C-O	-6.72	1.15	1.24
4	A	699	ALA	CA-CB	-6.72	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1034	GLU	CA-C	-6.72	1.43	1.52
4	A	1052	GLN	CD-NE2	6.72	1.47	1.33
5	B	744	HIS	CA-C	6.72	1.61	1.52
4	A	81	PHE	CB-CG	6.72	1.66	1.50
4	A	701	LEU	N-CA	6.72	1.54	1.46
4	A	1262	LYS	CA-C	6.72	1.62	1.52
6	C	52	GLU	CG-CD	6.72	1.68	1.52
4	A	1038	THR	CA-C	-6.72	1.44	1.52
12	K	97	LYS	N-CA	-6.72	1.38	1.46
4	A	643	ALA	CA-CB	-6.71	1.42	1.53
5	B	49	ASP	CA-C	6.71	1.61	1.52
5	B	230	ALA	C-N	6.71	1.49	1.33
4	A	149	GLU	CA-C	6.71	1.61	1.52
4	A	1092	LYS	CG-CD	6.71	1.72	1.52
4	A	209	ASN	CB-CG	6.71	1.68	1.52
4	A	1290	LYS	C-O	6.71	1.31	1.24
4	A	1159	ARG	CB-CG	6.71	1.72	1.52
5	B	658	ILE	CA-C	-6.71	1.42	1.52
6	C	137	LYS	CB-CG	6.71	1.72	1.52
5	B	175	ARG	CG-CD	6.71	1.72	1.52
10	I	117	LYS	CB-CG	6.71	1.72	1.52
5	B	393	LYS	CD-CE	6.71	1.72	1.52
6	C	149	LYS	CA-C	-6.71	1.44	1.52
5	B	114	PRO	CA-C	-6.70	1.42	1.52
5	B	715	ALA	CA-CB	6.70	1.74	1.52
4	A	1199	ARG	N-CA	6.70	1.54	1.46
6	C	48	SER	N-CA	-6.70	1.37	1.46
4	A	770	VAL	N-CA	-6.70	1.38	1.46
4	A	914	GLU	CA-CB	-6.70	1.43	1.53
4	A	361	LEU	C-O	-6.70	1.15	1.24
5	B	494	HIS	CA-CB	-6.70	1.41	1.53
5	B	722	ASP	CA-C	6.70	1.67	1.52
7	E	90	VAL	CA-C	6.70	1.61	1.52
4	A	752	LYS	CB-CG	-6.69	1.32	1.52
4	A	149	GLU	CA-CB	6.68	1.64	1.53
4	A	846	GLU	C-O	-6.68	1.15	1.24
4	A	1012	ARG	CB-CG	6.68	1.72	1.52
5	B	543	SER	N-CA	-6.68	1.36	1.45
4	A	556	TRP	N-CA	6.68	1.54	1.46
4	A	926	GLN	C-N	6.68	1.42	1.33
4	A	1378	GLN	CA-C	6.68	1.63	1.52
5	B	731	VAL	CA-CB	-6.68	1.45	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	1127	GLY	CA-C	-6.68	1.45	1.52
5	B	1156	ASP	C-O	-6.68	1.15	1.23
4	A	1231	ASP	N-CA	6.68	1.60	1.46
5	B	702	LEU	CA-CB	-6.68	1.41	1.53
4	A	247	ARG	CA-C	6.68	1.61	1.52
9	H	56	THR	CA-C	-6.68	1.44	1.52
9	H	94	ASP	CA-CB	6.68	1.64	1.53
4	A	1361	SER	CB-OG	6.68	1.55	1.42
5	B	910	VAL	CB-CG1	6.68	1.74	1.52
4	A	162	VAL	CB-CG1	6.67	1.74	1.52
6	C	167	HIS	CA-CB	-6.67	1.42	1.53
4	A	953	ASN	CG-ND2	6.67	1.47	1.33
4	A	695	LYS	CD-CE	6.67	1.72	1.52
4	A	1203	ASN	CB-CG	6.67	1.68	1.52
4	A	1228	TRP	CA-C	-6.67	1.44	1.52
5	B	935	ARG	CG-CD	6.67	1.72	1.52
9	H	3	ASN	CA-CB	6.67	1.64	1.53
4	A	217	LYS	CA-C	6.67	1.62	1.52
11	J	29	GLU	CG-CD	6.67	1.68	1.52
5	B	827	ILE	C-O	-6.67	1.17	1.24
9	H	91	ASP	C-O	6.67	1.32	1.24
12	K	22	ASP	C-O	6.67	1.29	1.24
12	K	83	PRO	CG-CD	6.67	1.73	1.50
5	B	345	LYS	CE-NZ	6.66	1.69	1.49
11	J	39	LEU	CA-CB	-6.66	1.42	1.53
5	B	666	TYR	CD1-CE1	6.66	1.58	1.38
5	B	858	SER	CA-CB	-6.66	1.41	1.53
4	A	997	LEU	C-O	-6.66	1.16	1.24
4	A	1319	VAL	N-CA	-6.66	1.38	1.46
5	B	112	LEU	CA-C	6.66	1.61	1.52
4	A	927	VAL	CB-CG1	6.66	1.74	1.52
4	A	1345	ARG	CA-C	-6.66	1.44	1.52
6	C	267	GLN	N-CA	6.66	1.54	1.46
4	A	317	LYS	C-N	6.66	1.43	1.33
4	A	586	ILE	CA-C	-6.66	1.44	1.52
4	A	1437	GLY	C-N	-6.66	1.24	1.33
5	B	699	GLU	CD-OE2	6.65	1.38	1.25
9	H	57	VAL	CA-CB	6.65	1.63	1.54
4	A	898	ARG	CD-NE	6.65	1.55	1.46
6	C	52	GLU	CB-CG	6.65	1.72	1.52
9	H	29	ALA	CA-CB	6.65	1.65	1.53
4	A	357	PRO	CA-C	-6.64	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	1086	PHE	CA-C	6.64	1.61	1.52
6	C	34	ARG	CB-CG	6.64	1.72	1.52
4	A	1391	ARG	CD-NE	6.64	1.55	1.46
5	B	502	ILE	N-CA	6.64	1.58	1.46
5	B	1151	LEU	CG-CD1	6.64	1.74	1.52
4	A	1175	SER	C-N	6.64	1.42	1.33
5	B	964	VAL	CB-CG1	-6.64	1.30	1.52
8	F	100	GLN	CA-CB	6.64	1.64	1.53
7	E	58	MET	CB-CG	6.64	1.72	1.52
7	E	159	ASP	CA-C	6.64	1.60	1.53
12	K	102	LYS	CG-CD	6.64	1.72	1.52
5	B	1010	LEU	C-O	6.63	1.31	1.23
4	A	900	ASP	CA-CB	6.63	1.70	1.53
5	B	874	PHE	N-CA	-6.63	1.37	1.46
4	A	934	LYS	CA-CB	6.63	1.64	1.53
4	A	1259	MET	CG-SD	6.63	1.97	1.80
4	A	828	ALA	C-O	6.63	1.33	1.24
4	A	388	LEU	CA-C	6.63	1.61	1.52
6	C	221	TYR	CD1-CE1	-6.63	1.18	1.38
7	E	66	GLU	N-CA	6.63	1.54	1.46
5	B	60	GLN	CA-CB	6.62	1.64	1.53
5	B	510	LYS	CB-CG	6.62	1.72	1.52
4	A	1329	THR	CA-C	-6.62	1.45	1.52
6	C	179	GLU	CG-CD	6.62	1.68	1.52
10	I	66	PRO	CA-C	-6.62	1.46	1.52
10	I	73	ARG	CA-CB	6.62	1.63	1.53
4	A	814	PHE	CB-CG	-6.62	1.35	1.50
5	B	693	ILE	C-O	-6.62	1.15	1.24
5	B	46	GLN	CD-OE1	6.62	1.36	1.23
7	E	110	PHE	CA-C	6.62	1.60	1.53
5	B	38	PHE	CG-CD1	-6.62	1.25	1.38
5	B	267	ARG	CA-CB	6.62	1.61	1.52
4	A	436	ILE	CA-C	-6.61	1.44	1.52
5	B	431	TYR	N-CA	6.61	1.54	1.46
9	H	92	ASP	CA-C	6.61	1.63	1.52
11	J	9	SER	CA-CB	-6.61	1.43	1.53
4	A	478	TYR	CA-CB	-6.61	1.43	1.53
4	A	719	VAL	CA-CB	-6.61	1.44	1.54
5	B	30	SER	CA-CB	-6.61	1.42	1.53
5	B	847	ASP	N-CA	-6.61	1.38	1.46
5	B	1223	ASP	C-N	6.61	1.42	1.33
7	E	105	PHE	CD2-CE2	6.61	1.58	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	794	PRO	C-O	6.61	1.32	1.24
4	A	796	SER	C-O	-6.61	1.16	1.24
5	B	543	SER	CA-C	-6.61	1.44	1.53
6	C	153	LEU	CA-CB	-6.61	1.44	1.53
7	E	180	ARG	CA-CB	6.61	1.63	1.53
5	B	325	GLN	CG-CD	6.60	1.68	1.52
4	A	51	GLY	CA-C	6.60	1.61	1.51
4	A	480	ALA	CA-CB	-6.60	1.42	1.53
6	C	165	LYS	CA-C	-6.60	1.44	1.52
4	A	1339	LEU	N-CA	6.60	1.55	1.46
4	A	762	SER	CA-C	-6.60	1.44	1.52
6	C	74	SER	CA-CB	6.60	1.62	1.53
7	E	21	GLU	CA-C	-6.60	1.44	1.52
5	B	560	GLU	CG-CD	6.59	1.68	1.52
4	A	1294	PRO	CA-C	6.59	1.61	1.52
5	B	66	ASP	N-CA	6.59	1.55	1.46
8	F	116	ASP	C-O	-6.59	1.15	1.24
4	A	1429	ILE	C-O	-6.59	1.16	1.24
6	C	267	GLN	CB-CG	6.59	1.72	1.52
11	J	1	MET	SD-CE	6.59	1.96	1.79
5	B	244	LEU	CA-C	6.59	1.61	1.52
4	A	551	TYR	CZ-OH	6.58	1.51	1.38
5	B	41	LYS	CE-NZ	6.58	1.69	1.49
5	B	430	ARG	N-CA	6.58	1.54	1.46
7	E	122	LYS	CA-C	6.58	1.61	1.52
5	B	261	ARG	CA-CB	6.58	1.62	1.53
7	E	190	LEU	C-O	-6.58	1.15	1.23
4	A	1293	SER	N-CA	-6.58	1.36	1.45
8	F	128	LYS	CB-CG	6.58	1.72	1.52
6	C	123	ASN	CB-CG	6.58	1.68	1.52
5	B	381	MET	SD-CE	6.58	1.96	1.79
5	B	754	SER	C-N	-6.58	1.27	1.34
4	A	181	LEU	CA-CB	-6.57	1.44	1.53
8	F	88	TYR	CE1-CZ	-6.57	1.22	1.38
6	C	233	GLU	N-CA	6.57	1.53	1.46
4	A	728	LYS	CD-CE	6.56	1.72	1.52
4	A	672	ASP	N-CA	6.56	1.54	1.46
5	B	222	ILE	N-CA	-6.56	1.36	1.46
4	A	795	GLU	CG-CD	6.56	1.68	1.52
4	A	914	GLU	N-CA	6.56	1.54	1.46
4	A	1391	ARG	CB-CG	6.56	1.72	1.52
12	K	37	LYS	CE-NZ	6.56	1.69	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1419	ASP	N-CA	-6.55	1.38	1.46
5	B	512	ARG	CA-CB	6.55	1.65	1.53
4	A	644	LYS	CG-CD	6.55	1.72	1.52
4	A	1303	GLU	CG-CD	6.55	1.68	1.52
11	J	19	GLU	CA-C	6.55	1.61	1.52
4	A	741	ASN	CG-ND2	6.55	1.47	1.33
5	B	481	GLN	C-O	-6.55	1.16	1.23
8	F	142	SER	CA-C	-6.55	1.44	1.52
4	A	564	ALA	CA-C	-6.55	1.44	1.52
4	A	153	PRO	N-CA	6.55	1.55	1.47
4	A	938	LYS	CG-CD	6.54	1.72	1.52
10	I	90	GLN	CA-CB	-6.54	1.42	1.53
4	A	651	LYS	CA-C	6.54	1.61	1.52
11	J	62	ARG	CA-C	6.54	1.61	1.52
12	K	57	LEU	CA-C	6.54	1.60	1.52
5	B	1171	VAL	CA-C	-6.54	1.44	1.52
10	I	80	SER	CA-CB	-6.54	1.43	1.53
4	A	936	LEU	CG-CD2	6.54	1.74	1.52
4	A	1332	PHE	CE2-CZ	6.54	1.58	1.38
6	C	77	ILE	CA-CB	-6.54	1.44	1.54
12	K	82	ASP	CA-CB	6.54	1.61	1.53
5	B	68	THR	C-N	6.54	1.42	1.33
5	B	99	LYS	C-N	-6.54	1.25	1.33
7	E	194	GLU	CA-C	-6.54	1.44	1.52
12	K	53	ASP	CA-CB	6.54	1.62	1.53
9	H	76	THR	N-CA	6.53	1.58	1.46
4	A	1214	GLU	CB-CG	6.53	1.72	1.52
4	A	1338	VAL	CB-CG2	-6.53	1.31	1.52
5	B	216	GLU	N-CA	-6.53	1.38	1.46
5	B	355	ILE	C-O	-6.53	1.16	1.24
6	C	222	LYS	CA-CB	6.53	1.63	1.54
5	B	29	ASP	CB-CG	6.53	1.68	1.52
4	A	241	VAL	C-N	-6.53	1.25	1.33
4	A	705	LYS	CA-C	-6.53	1.44	1.52
5	B	268	THR	C-O	-6.53	1.15	1.23
7	E	93	MET	N-CA	6.53	1.54	1.46
6	C	174	ALA	CA-C	-6.52	1.44	1.52
6	C	253	LYS	CA-C	-6.52	1.44	1.52
4	A	186	LYS	CB-CG	6.52	1.72	1.52
5	B	384	ARG	CA-C	-6.52	1.44	1.52
4	A	1205	LYS	CD-CE	6.52	1.72	1.52
5	B	33	VAL	N-CA	-6.52	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	113	TYR	CA-C	6.52	1.60	1.52
5	B	275	TYR	CD2-CE2	6.52	1.58	1.38
5	B	470	LYS	CG-CD	6.52	1.72	1.52
4	A	1241	ARG	CG-CD	6.52	1.72	1.52
5	B	900	ALA	N-CA	-6.52	1.35	1.45
6	C	51	VAL	CA-C	-6.52	1.44	1.52
4	A	1027	ALA	N-CA	-6.52	1.37	1.46
5	B	865	LYS	CA-CB	6.51	1.64	1.52
4	A	1230	GLU	CG-CD	6.51	1.68	1.52
11	J	56	LEU	CA-C	-6.51	1.43	1.52
5	B	358	LYS	CG-CD	6.51	1.72	1.52
5	B	470	LYS	CD-CE	6.51	1.72	1.52
6	C	7	GLN	CG-CD	-6.51	1.35	1.52
12	K	27	ALA	C-O	6.51	1.32	1.24
4	A	408	ASP	CA-CB	6.51	1.64	1.53
4	A	706	HIS	CA-CB	6.51	1.64	1.53
4	A	1153	TYR	CD1-CE1	6.51	1.58	1.38
6	C	223	ALA	C-O	6.51	1.32	1.24
5	B	264	SER	CA-CB	6.50	1.64	1.53
5	B	789	MET	CA-CB	-6.50	1.43	1.53
4	A	796	SER	CA-CB	-6.50	1.43	1.53
5	B	113	TYR	C-O	-6.50	1.17	1.24
5	B	949	VAL	CA-C	6.50	1.62	1.53
6	C	73	GLN	CA-CB	-6.50	1.43	1.53
12	K	67	PHE	CD2-CE2	-6.50	1.19	1.38
13	L	53	HIS	CA-C	-6.50	1.44	1.52
4	A	602	ASP	CB-CG	6.49	1.68	1.52
6	C	258	ILE	N-CA	-6.49	1.37	1.46
4	A	1305	VAL	CA-C	-6.49	1.44	1.52
7	E	31	THR	CB-CG2	6.49	1.74	1.52
4	A	131	SER	CA-C	6.49	1.61	1.52
5	B	1055	ILE	CA-CB	-6.49	1.46	1.54
12	K	4	PRO	C-O	6.49	1.32	1.24
5	B	277	LYS	N-CA	-6.49	1.38	1.46
5	B	806	THR	C-O	-6.49	1.15	1.23
12	K	6	ARG	CD-NE	-6.49	1.37	1.46
4	A	6	TYR	CA-C	-6.48	1.44	1.52
9	H	107	VAL	CA-C	6.48	1.60	1.52
4	A	854	ASN	CA-C	6.48	1.61	1.52
10	I	54	GLU	N-CA	6.48	1.54	1.46
12	K	1	MET	CG-SD	6.48	1.97	1.80
6	C	138	GLU	CG-CD	6.48	1.68	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	F	81	THR	CA-C	6.48	1.61	1.52
4	A	426	LEU	CA-CB	6.48	1.62	1.53
12	K	85	ASP	N-CA	6.48	1.54	1.46
4	A	525	GLN	CA-C	-6.48	1.44	1.52
4	A	637	LYS	CE-NZ	6.47	1.68	1.49
9	H	130	ARG	N-CA	6.47	1.54	1.46
5	B	589	VAL	CB-CG1	-6.47	1.31	1.52
4	A	601	LYS	CD-CE	6.47	1.71	1.52
8	F	124	GLU	CA-CB	-6.47	1.42	1.53
5	B	94	LYS	CA-CB	6.47	1.64	1.53
7	E	82	PHE	CA-CB	6.47	1.61	1.53
12	K	35	PHE	CA-CB	6.47	1.63	1.53
4	A	606	LEU	CA-C	-6.46	1.45	1.52
4	A	1286	LYS	C-O	6.46	1.32	1.23
4	A	1189	SER	CA-C	6.46	1.60	1.52
5	B	95	ILE	CB-CG2	6.46	1.73	1.52
4	A	1054	LEU	CG-CD2	6.46	1.73	1.52
5	B	645	SER	CA-CB	6.46	1.64	1.53
5	B	751	VAL	CB-CG2	-6.46	1.31	1.52
5	B	1175	LEU	CA-C	6.46	1.60	1.52
4	A	1356	ILE	C-O	-6.46	1.16	1.24
4	A	825	ILE	N-CA	-6.46	1.39	1.46
6	C	145	CYS	C-O	-6.46	1.17	1.24
10	I	2	THR	CA-CB	6.46	1.71	1.54
4	A	1337	GLU	CA-CB	6.45	1.64	1.53
5	B	330	ALA	CA-C	6.45	1.61	1.52
4	A	313	GLN	CB-CG	-6.45	1.33	1.52
4	A	881	GLN	CG-CD	-6.45	1.35	1.52
4	A	1353	TYR	CD1-CE1	6.45	1.57	1.38
5	B	249	ARG	CG-CD	6.45	1.71	1.52
5	B	345	LYS	CA-CB	6.45	1.66	1.53
7	E	162	ARG	NE-CZ	6.45	1.40	1.33
4	A	240	PRO	CA-CB	6.45	1.62	1.53
4	A	581	ALA	CA-C	-6.45	1.44	1.52
7	E	169	ARG	CB-CG	6.45	1.71	1.52
10	I	82	GLU	CA-CB	-6.45	1.43	1.53
4	A	943	LEU	CG-CD1	6.44	1.73	1.52
5	B	645	SER	C-N	6.44	1.42	1.33
5	B	319	GLU	CB-CG	6.44	1.71	1.52
5	B	1104	HIS	CA-C	6.44	1.62	1.53
4	A	677	ARG	CD-NE	6.44	1.55	1.46
5	B	334	ILE	C-N	6.44	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	E	41	ASP	CB-CG	6.44	1.68	1.52
7	E	124	VAL	CA-CB	-6.44	1.45	1.54
10	I	118	ARG	N-CA	6.44	1.54	1.46
4	A	1142	THR	CA-CB	6.44	1.63	1.53
4	A	877	HIS	CB-CG	6.44	1.59	1.50
5	B	316	PRO	CA-C	-6.44	1.44	1.52
6	C	151	GLN	CA-C	-6.44	1.45	1.52
12	K	88	LYS	CG-CD	6.44	1.71	1.52
4	A	383	TYR	CA-CB	6.44	1.63	1.53
13	L	42	ARG	CA-CB	6.44	1.64	1.53
4	A	1211	GLN	C-O	6.43	1.31	1.24
5	B	649	LYS	CG-CD	6.43	1.71	1.52
6	C	90	ASP	C-O	6.43	1.32	1.24
7	E	72	PHE	N-CA	-6.43	1.37	1.46
5	B	593	PRO	CB-CG	-6.43	1.17	1.49
5	B	702	LEU	N-CA	-6.43	1.39	1.46
4	A	640	GLN	CB-CG	6.43	1.71	1.52
4	A	1046	LEU	CG-CD1	6.43	1.73	1.52
4	A	560	ILE	N-CA	-6.43	1.38	1.46
4	A	643	ALA	C-O	6.43	1.32	1.24
4	A	973	ILE	CA-C	6.43	1.60	1.52
5	B	1033	LYS	CA-C	-6.43	1.45	1.52
13	L	50	ASP	C-O	6.43	1.32	1.24
4	A	315	LEU	CG-CD2	6.43	1.73	1.52
5	B	545	ILE	CA-C	6.43	1.60	1.52
4	A	799	PHE	C-O	6.42	1.31	1.23
5	B	187	SER	CA-CB	6.42	1.63	1.53
5	B	177	LYS	CG-CD	6.42	1.71	1.52
6	C	28	ALA	CA-CB	-6.42	1.42	1.53
6	C	181	ASP	CA-CB	-6.42	1.43	1.53
5	B	734	HIS	CB-CG	6.42	1.59	1.50
9	H	23	VAL	CA-C	-6.42	1.44	1.52
7	E	13	TRP	CA-CB	-6.42	1.43	1.53
4	A	792	TYR	CE1-CZ	6.42	1.53	1.38
5	B	69	LEU	CB-CG	6.42	1.66	1.53
4	A	170	THR	CA-C	6.42	1.59	1.53
4	A	583	PRO	CB-CG	-6.42	1.17	1.49
4	A	878	ILE	CB-CG2	-6.42	1.31	1.52
4	A	1014	ALA	C-O	6.42	1.32	1.24
5	B	615	MET	C-O	6.42	1.31	1.23
5	B	708	GLU	C-O	6.42	1.32	1.24
5	B	875	GLU	N-CA	-6.42	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	208	LEU	CA-C	6.41	1.61	1.52
4	A	123	ARG	CD-NE	6.41	1.55	1.46
6	C	134	ILE	CA-C	-6.41	1.44	1.52
5	B	1113	VAL	CA-C	-6.41	1.44	1.52
5	B	1116	ARG	CA-C	6.41	1.62	1.52
5	B	1222	ARG	CB-CG	6.41	1.71	1.52
11	J	48	ARG	C-O	6.41	1.32	1.24
4	A	739	ASP	CA-C	6.41	1.61	1.52
5	B	533	CYS	N-CA	-6.41	1.38	1.46
7	E	21	GLU	CG-CD	6.41	1.68	1.52
13	L	55	ILE	CA-CB	-6.41	1.45	1.54
4	A	886	ILE	C-O	-6.40	1.17	1.24
4	A	833	GLU	CA-C	6.40	1.61	1.52
4	A	138	ILE	CA-CB	-6.40	1.45	1.54
5	B	1167	GLY	N-CA	6.40	1.54	1.45
4	A	1137	ALA	CA-C	-6.40	1.44	1.52
5	B	661	LEU	CA-CB	-6.40	1.42	1.53
6	C	235	VAL	CA-C	6.40	1.63	1.52
7	E	106	GLN	CA-C	6.40	1.60	1.52
4	A	712	GLU	CA-CB	6.39	1.64	1.53
4	A	927	VAL	CB-CG2	-6.39	1.31	1.52
6	C	98	VAL	CA-C	-6.39	1.45	1.52
11	J	49	MET	N-CA	-6.39	1.38	1.46
4	A	67	CYS	N-CA	-6.39	1.38	1.46
5	B	246	LYS	CA-CB	6.39	1.64	1.53
8	F	126	ALA	C-O	-6.39	1.16	1.24
4	A	239	LEU	CA-C	-6.39	1.45	1.52
4	A	340	LEU	CB-CG	-6.39	1.40	1.53
5	B	633	VAL	C-O	-6.39	1.15	1.23
5	B	788	ARG	CB-CG	6.39	1.71	1.52
5	B	990	ILE	N-CA	-6.39	1.38	1.46
5	B	1165	ILE	N-CA	-6.39	1.38	1.46
4	A	344	ARG	CA-C	-6.39	1.44	1.52
2	T	13	DA	O3'-P	6.39	1.70	1.61
4	A	1141	THR	N-CA	6.39	1.54	1.46
4	A	1167	GLU	CA-C	6.39	1.61	1.52
9	H	136	LYS	CG-CD	6.39	1.71	1.52
11	J	19	GLU	CG-CD	6.39	1.68	1.52
13	L	25	ALA	CA-C	6.39	1.66	1.52
4	A	199	LEU	C-N	6.38	1.42	1.33
4	A	1444	MET	N-CA	6.38	1.55	1.46
5	B	461	LEU	CG-CD2	6.38	1.73	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	H	76	THR	CB-CG2	6.38	1.73	1.52
4	A	1199	ARG	CG-CD	6.38	1.71	1.52
4	A	1418	LEU	CA-C	-6.38	1.45	1.52
5	B	723	VAL	CA-C	6.38	1.60	1.52
6	C	210	GLU	N-CA	6.38	1.54	1.45
7	E	39	LEU	N-CA	-6.38	1.38	1.46
8	F	135	ARG	CA-C	6.38	1.59	1.53
4	A	237	THR	CA-C	6.38	1.61	1.52
4	A	254	GLU	CB-CG	6.38	1.71	1.52
5	B	682	SER	C-O	-6.38	1.16	1.24
5	B	786	ASN	N-CA	-6.38	1.38	1.46
7	E	147	HIS	CA-C	-6.38	1.44	1.52
4	A	434	ARG	C-N	-6.38	1.24	1.33
4	A	1394	THR	CA-CB	6.38	1.64	1.53
9	H	2	SER	C-N	6.37	1.42	1.33
12	K	27	ALA	CA-C	6.37	1.60	1.52
5	B	976	ILE	CA-CB	-6.37	1.46	1.54
4	A	1096	SER	N-CA	6.37	1.54	1.45
6	C	200	GLU	CA-C	-6.37	1.45	1.52
7	E	182	ASP	CB-CG	6.37	1.68	1.52
4	A	768	GLN	CA-CB	-6.37	1.43	1.53
4	A	1003	LYS	CA-CB	6.37	1.64	1.53
4	A	1030	ARG	CA-C	-6.37	1.44	1.52
5	B	289	LEU	CG-CD1	6.37	1.73	1.52
4	A	1288	ASP	N-CA	6.37	1.54	1.46
9	H	96	VAL	CA-CB	-6.37	1.46	1.54
9	H	133	ASN	CA-C	6.37	1.60	1.52
10	I	13	MET	CB-CG	6.37	1.71	1.52
12	K	62	LYS	CG-CD	6.37	1.71	1.52
5	B	715	ALA	CA-C	6.36	1.66	1.52
5	B	801	LYS	CG-CD	6.36	1.71	1.52
6	C	88	CYS	C-O	-6.36	1.15	1.23
9	H	124	ARG	CB-CG	6.36	1.71	1.52
4	A	1134	ILE	CA-C	-6.36	1.44	1.52
5	B	374	LYS	CG-CD	6.36	1.71	1.52
5	B	420	LEU	CA-C	-6.36	1.44	1.52
5	B	568	ASP	N-CA	6.36	1.54	1.46
5	B	711	GLU	CG-CD	-6.36	1.36	1.52
6	C	198	ALA	N-CA	-6.36	1.36	1.45
8	F	72	LYS	CG-CD	6.36	1.71	1.52
2	T	23	DC	O3'-P	-6.35	1.51	1.61
4	A	242	PRO	C-N	6.35	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	291	GLU	CG-CD	6.35	1.68	1.52
4	A	685	GLU	CB-CG	6.35	1.71	1.52
4	A	840	ARG	CZ-NH2	6.35	1.41	1.33
5	B	99	LYS	CD-CE	6.35	1.71	1.52
4	A	1169	ILE	CA-C	-6.35	1.44	1.52
7	E	8	ASN	CA-C	6.35	1.61	1.52
4	A	586	ILE	CA-CB	6.35	1.61	1.53
9	H	21	ASN	CA-CB	6.35	1.62	1.53
4	A	824	LEU	CA-C	-6.35	1.44	1.52
4	A	844	ALA	C-O	-6.35	1.15	1.23
11	J	56	LEU	CA-CB	-6.35	1.42	1.53
4	A	555	ASP	C-O	6.34	1.31	1.24
8	F	96	THR	CA-CB	-6.34	1.42	1.53
4	A	813	PHE	CA-C	-6.34	1.44	1.52
9	H	76	THR	CA-C	6.34	1.66	1.52
4	A	167	CYS	CA-C	6.34	1.61	1.52
4	A	1036	ARG	CA-CB	6.34	1.64	1.53
9	H	145	ARG	CG-CD	6.34	1.71	1.52
5	B	68	THR	CB-CG2	6.34	1.73	1.52
9	H	126	GLU	CA-C	6.34	1.60	1.52
4	A	968	GLN	CA-CB	6.33	1.64	1.53
4	A	107	CYS	CB-SG	6.33	2.02	1.81
5	B	635	ARG	CB-CG	6.33	1.71	1.52
4	A	1211	GLN	CB-CG	6.33	1.71	1.52
12	K	96	ASN	N-CA	-6.33	1.38	1.46
5	B	426	LYS	CG-CD	6.33	1.71	1.52
5	B	865	LYS	CG-CD	6.33	1.71	1.52
4	A	1100	ARG	CA-CB	-6.33	1.42	1.53
5	B	249	ARG	CA-CB	6.33	1.64	1.53
4	A	670	ILE	C-O	6.32	1.31	1.24
4	A	1261	LYS	N-CA	6.32	1.54	1.46
5	B	645	SER	CA-C	6.32	1.61	1.52
7	E	58	MET	SD-CE	6.32	1.95	1.79
5	B	970	THR	CA-CB	-6.32	1.42	1.53
4	A	471	ASN	CA-C	-6.32	1.44	1.52
4	A	1255	GLU	CA-CB	6.32	1.64	1.53
4	A	1393	ASN	N-CA	6.32	1.54	1.46
7	E	36	GLU	C-O	6.32	1.31	1.24
4	A	200	ARG	CD-NE	6.32	1.55	1.46
4	A	841	LEU	C-O	-6.32	1.16	1.24
4	A	1070	GLN	C-O	-6.32	1.16	1.24
4	A	1190	PRO	CA-C	-6.32	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1434	ALA	C-O	-6.32	1.15	1.24
5	B	384	ARG	CD-NE	6.32	1.55	1.46
5	B	1002	THR	C-O	6.32	1.32	1.23
4	A	32	VAL	CA-C	6.31	1.60	1.52
6	C	148	ARG	CA-CB	-6.31	1.45	1.53
7	E	33	GLU	N-CA	6.31	1.54	1.46
4	A	1239	ARG	CG-CD	6.31	1.71	1.52
5	B	1035	ALA	CA-CB	-6.31	1.42	1.53
6	C	37	MET	CA-CB	-6.31	1.42	1.53
4	A	1268	LEU	CA-C	6.31	1.61	1.52
6	C	51	VAL	CA-CB	-6.31	1.46	1.54
10	I	117	LYS	CA-CB	6.31	1.62	1.53
5	B	838	SER	N-CA	-6.31	1.37	1.45
5	B	1052	VAL	C-O	-6.31	1.17	1.24
7	E	7	ARG	CB-CG	6.31	1.71	1.52
7	E	137	GLU	C-O	-6.31	1.16	1.24
5	B	620	ARG	CA-CB	6.31	1.64	1.53
4	A	1013	ASP	N-CA	-6.30	1.37	1.46
4	A	302	THR	CB-CG2	6.30	1.73	1.52
4	A	455	MET	CG-SD	-6.30	1.65	1.80
6	C	259	LEU	N-CA	-6.30	1.38	1.46
4	A	1323	ASP	CA-CB	-6.30	1.42	1.52
4	A	1418	LEU	N-CA	-6.30	1.38	1.46
9	H	19	ARG	CZ-NH2	6.30	1.41	1.33
4	A	372	LYS	CA-CB	6.30	1.64	1.53
4	A	982	THR	CA-C	-6.30	1.45	1.52
12	K	70	ARG	CG-CD	6.30	1.71	1.52
4	A	838	GLN	CA-CB	6.30	1.64	1.53
4	A	1144	LYS	CG-CD	6.30	1.71	1.52
4	A	1043	ASP	CB-CG	6.30	1.67	1.52
5	B	132	VAL	CA-CB	-6.30	1.45	1.54
7	E	20	LYS	CA-C	6.30	1.61	1.52
5	B	469	GLN	N-CA	6.29	1.54	1.46
7	E	114	ASN	CB-CG	6.29	1.67	1.52
4	A	672	ASP	CG-OD2	6.29	1.37	1.25
5	B	277	LYS	CG-CD	6.29	1.71	1.52
4	A	696	GLU	CG-CD	6.29	1.67	1.52
4	A	994	GLN	CA-CB	6.29	1.64	1.53
4	A	1205	LYS	C-O	6.29	1.31	1.23
6	C	110	THR	CA-C	6.29	1.61	1.52
5	B	1166	CYS	CA-C	6.29	1.60	1.53
5	B	320	ASP	CB-CG	6.29	1.67	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	J	26	GLN	CA-CB	6.29	1.64	1.53
5	B	1151	LEU	CA-C	-6.29	1.43	1.52
5	B	1172	ILE	C-O	6.29	1.31	1.24
8	F	125	LEU	N-CA	-6.29	1.37	1.46
4	A	362	ASP	CA-CB	-6.28	1.44	1.53
4	A	1255	GLU	CG-CD	6.28	1.67	1.52
4	A	612	ILE	CA-C	6.28	1.60	1.52
10	I	39	GLY	CA-C	6.28	1.59	1.51
12	K	50	LEU	CB-CG	-6.28	1.40	1.53
5	B	174	LEU	CA-CB	-6.28	1.44	1.53
4	A	545	GLN	CD-NE2	6.28	1.46	1.33
4	A	988	LEU	CG-CD2	6.28	1.73	1.52
4	A	1023	ARG	N-CA	-6.28	1.38	1.46
4	A	371	ALA	CA-C	-6.27	1.44	1.52
5	B	183	GLU	CG-CD	6.27	1.67	1.52
6	C	52	GLU	CA-CB	6.27	1.62	1.53
7	E	170	LEU	CG-CD1	6.27	1.73	1.52
10	I	115	LYS	CE-NZ	6.27	1.68	1.49
4	A	509	LEU	CG-CD1	6.27	1.73	1.52
10	I	101	PHE	CB-CG	-6.27	1.36	1.50
11	J	61	LEU	CA-CB	-6.27	1.43	1.53
12	K	109	TRP	CE3-CZ3	-6.27	1.19	1.38
4	A	290	GLU	CB-CG	6.27	1.71	1.52
4	A	297	GLN	CA-C	-6.27	1.44	1.52
4	A	734	GLU	CD-OE1	6.27	1.37	1.25
5	B	550	ASP	C-O	6.27	1.31	1.24
4	A	390	GLN	CA-CB	6.27	1.64	1.53
4	A	885	THR	CB-CG2	-6.27	1.31	1.52
10	I	83	ASN	C-O	-6.27	1.18	1.24
5	B	40	GLU	CG-CD	6.26	1.67	1.52
5	B	122	LEU	CB-CG	-6.26	1.41	1.53
10	I	96	SER	CA-CB	6.26	1.63	1.53
4	A	920	LEU	CA-C	-6.26	1.44	1.52
12	K	88	LYS	CD-CE	6.26	1.71	1.52
4	A	664	THR	C-N	6.26	1.40	1.34
10	I	30	ARG	CD-NE	6.26	1.55	1.46
4	A	1005	GLU	CA-C	6.26	1.61	1.52
4	A	1092	LYS	CA-C	6.26	1.66	1.52
4	A	1348	LEU	CA-C	-6.26	1.44	1.52
4	A	14	VAL	CA-C	-6.25	1.44	1.52
5	B	47	GLN	CA-CB	6.25	1.63	1.53
10	I	46	HIS	C-O	-6.25	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	336	ILE	C-O	6.25	1.31	1.24
4	A	1023	ARG	C-O	-6.25	1.16	1.24
6	C	209	TYR	CB-CG	6.25	1.65	1.51
5	B	127	GLY	CA-C	-6.25	1.48	1.52
5	B	760	ASP	CB-CG	-6.25	1.36	1.52
4	A	447	GLN	CD-NE2	6.25	1.46	1.33
7	E	29	PHE	CB-CG	6.25	1.65	1.50
4	A	1257	ASP	N-CA	6.25	1.54	1.46
12	K	100	ALA	CA-CB	-6.25	1.43	1.53
4	A	221	SER	CA-C	-6.25	1.44	1.52
4	A	329	LEU	C-O	-6.25	1.16	1.24
5	B	1003	ALA	CA-CB	-6.25	1.42	1.53
5	B	1093	GLN	CA-CB	-6.25	1.44	1.53
4	A	689	LYS	CG-CD	6.24	1.71	1.52
5	B	597	MET	N-CA	-6.24	1.39	1.46
5	B	625	LYS	CD-CE	6.24	1.71	1.52
5	B	865	LYS	C-O	6.24	1.28	1.23
5	B	877	PRO	C-N	6.24	1.42	1.33
9	H	93	TYR	CB-CG	6.24	1.65	1.51
4	A	316	GLN	N-CA	6.24	1.54	1.46
6	C	260	LEU	CG-CD1	6.24	1.73	1.52
4	A	601	LYS	CE-NZ	6.24	1.68	1.49
4	A	976	THR	C-N	6.24	1.43	1.33
4	A	1001	ARG	CA-C	-6.24	1.46	1.53
4	A	789	LYS	CD-CE	6.23	1.71	1.52
5	B	1106	ARG	CB-CG	6.23	1.71	1.52
5	B	563	MET	CA-CB	6.23	1.64	1.53
5	B	625	LYS	CG-CD	6.23	1.71	1.52
9	H	37	LYS	CA-C	6.23	1.60	1.52
9	H	88	SER	N-CA	6.23	1.53	1.46
4	A	28	ARG	CB-CG	6.23	1.71	1.52
5	B	610	ASN	CA-CB	-6.23	1.43	1.53
6	C	201	TRP	C-O	-6.23	1.15	1.23
4	A	276	LEU	CA-C	6.23	1.60	1.52
4	A	969	GLN	CG-CD	6.23	1.67	1.52
5	B	450	ALA	C-O	6.23	1.31	1.24
5	B	522	VAL	N-CA	-6.23	1.38	1.46
4	A	200	ARG	CA-C	6.23	1.60	1.52
4	A	847	ASP	CB-CG	6.23	1.67	1.52
5	B	840	ILE	C-O	6.23	1.31	1.24
7	E	119	SER	N-CA	6.23	1.54	1.46
8	F	128	LYS	CD-CE	6.23	1.71	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	C	182	PRO	CA-CB	-6.22	1.43	1.53
12	K	48	ALA	CA-C	-6.22	1.44	1.52
12	K	14	GLU	N-CA	6.22	1.55	1.46
7	E	46	TYR	CE1-CZ	6.22	1.53	1.38
7	E	132	ILE	CA-C	6.22	1.60	1.52
4	A	169	ASN	CB-CG	6.22	1.67	1.52
4	A	799	PHE	CB-CG	6.21	1.65	1.50
5	B	875	GLU	CA-C	-6.21	1.45	1.53
7	E	122	LYS	CG-CD	6.21	1.71	1.52
4	A	681	GLU	CA-CB	6.21	1.63	1.53
5	B	660	LYS	CG-CD	6.21	1.71	1.52
5	B	971	THR	CA-C	-6.21	1.45	1.52
9	H	51	ALA	C-O	6.21	1.31	1.24
4	A	17	VAL	C-O	-6.21	1.17	1.24
5	B	228	LYS	CA-CB	6.21	1.63	1.53
4	A	481	ASP	CB-CG	6.21	1.67	1.52
5	B	609	ILE	CA-C	-6.21	1.45	1.52
5	B	706	GLN	C-O	-6.21	1.16	1.24
5	B	1091	TYR	C-O	-6.21	1.17	1.24
5	B	390	LEU	C-O	6.21	1.32	1.24
7	E	50	MET	CB-CG	6.21	1.71	1.52
9	H	14	GLU	CB-CG	6.21	1.71	1.52
4	A	132	LYS	CG-CD	6.20	1.71	1.52
4	A	865	GLN	CA-C	6.20	1.60	1.52
4	A	1165	GLU	CG-CD	6.20	1.67	1.52
5	B	357	GLN	CB-CG	6.20	1.71	1.52
4	A	596	THR	CA-C	6.20	1.61	1.52
1	R	3	C	C3'-O3'	6.20	1.51	1.42
5	B	568	ASP	C-O	6.20	1.31	1.24
12	K	99	GLY	N-CA	6.20	1.54	1.45
4	A	956	LEU	CA-C	6.20	1.58	1.52
4	A	368	LYS	CE-NZ	6.20	1.68	1.49
4	A	1107	VAL	CB-CG2	6.20	1.73	1.52
4	A	496	GLU	CA-CB	6.19	1.64	1.53
4	A	1262	LYS	CD-CE	6.19	1.71	1.52
5	B	552	MET	C-N	-6.19	1.26	1.33
4	A	174	ILE	CA-CB	6.19	1.62	1.54
5	B	864	LYS	N-CA	6.19	1.54	1.46
5	B	1014	PRO	CA-CB	-6.19	1.43	1.54
7	E	85	GLU	CA-C	6.19	1.62	1.52
9	H	98	TYR	CA-C	6.19	1.59	1.52
5	B	110	HIS	CA-CB	6.19	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	764	CYS	CA-CB	-6.19	1.43	1.53
4	A	836	TYR	N-CA	6.19	1.53	1.46
5	B	469	GLN	CD-NE2	6.19	1.46	1.33
4	A	1241	ARG	CB-CG	6.18	1.71	1.52
6	C	163	ILE	CA-CB	-6.18	1.46	1.54
4	A	747	VAL	N-CA	-6.18	1.38	1.46
4	A	789	LYS	CE-NZ	6.18	1.67	1.49
4	A	936	LEU	CG-CD1	6.18	1.73	1.52
5	B	374	LYS	CA-CB	-6.18	1.44	1.53
5	B	499	ASN	CA-C	-6.18	1.45	1.52
9	H	101	ALA	C-O	6.18	1.31	1.23
4	A	1324	PRO	CA-CB	-6.18	1.43	1.53
4	A	1159	ARG	CA-C	6.17	1.61	1.52
4	A	1434	ALA	CA-CB	-6.17	1.42	1.53
5	B	1098	MET	CG-SD	6.17	1.96	1.80
13	L	68	GLU	CA-C	6.17	1.60	1.52
4	A	104	GLU	CB-CG	6.17	1.71	1.52
9	H	124	ARG	CG-CD	6.17	1.71	1.52
12	K	37	LYS	CD-CE	6.17	1.71	1.52
4	A	462	VAL	CA-CB	-6.17	1.48	1.54
5	B	104	GLU	C-O	-6.17	1.16	1.24
5	B	783	THR	N-CA	-6.17	1.38	1.46
4	A	825	ILE	CA-CB	-6.17	1.47	1.54
4	A	909	ASP	CA-C	6.17	1.60	1.52
5	B	1082	MET	CG-SD	6.17	1.96	1.80
12	K	39	ASP	N-CA	-6.17	1.36	1.46
4	A	689	LYS	CD-CE	6.17	1.71	1.52
5	B	1070	GLU	N-CA	-6.16	1.38	1.46
6	C	79	GLN	CG-CD	6.16	1.67	1.52
6	C	167	HIS	C-O	-6.16	1.17	1.23
2	T	23	DC	C4'-O4'	-6.16	1.33	1.45
9	H	102	TYR	CA-C	6.16	1.60	1.52
4	A	956	LEU	C-N	6.16	1.41	1.33
6	C	69	LEU	C-N	-6.16	1.26	1.33
7	E	48	ASP	CB-CG	6.16	1.67	1.52
11	J	13	VAL	CA-C	6.16	1.60	1.52
5	B	181	LEU	CA-CB	-6.16	1.43	1.53
12	K	5	ASP	CB-CG	6.16	1.67	1.52
4	A	319	GLY	CA-C	6.16	1.60	1.51
4	A	1092	LYS	N-CA	6.16	1.57	1.46
4	A	1362	TYR	CD1-CE1	6.15	1.57	1.38
12	K	6	ARG	CG-CD	-6.15	1.34	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	768	GLN	C-O	-6.15	1.16	1.23
5	B	1129	ARG	CG-CD	6.15	1.70	1.52
4	A	143	LYS	CD-CE	6.15	1.70	1.52
4	A	595	THR	N-CA	6.15	1.53	1.45
6	C	159	ALA	CA-CB	-6.15	1.43	1.53
5	B	203	PHE	CA-C	-6.15	1.45	1.53
5	B	475	SER	CA-C	-6.14	1.44	1.52
5	B	678	GLU	CA-CB	-6.14	1.41	1.53
6	C	185	LYS	CG-CD	6.14	1.70	1.52
4	A	47	ARG	CD-NE	6.14	1.54	1.46
4	A	498	ARG	N-CA	-6.14	1.38	1.46
5	B	983	ARG	CZ-NH2	-6.14	1.25	1.33
6	C	199	LYS	N-CA	6.14	1.54	1.46
4	A	1267	MET	CG-SD	6.14	1.96	1.80
13	L	63	ARG	N-CA	6.14	1.53	1.46
4	A	1375	MET	SD-CE	-6.14	1.64	1.79
5	B	52	ASN	CA-CB	-6.14	1.43	1.53
7	E	4	GLU	CA-CB	6.14	1.61	1.53
7	E	104	ASN	CA-CB	6.14	1.63	1.53
4	A	681	GLU	CA-C	-6.14	1.44	1.52
5	B	289	LEU	CA-C	6.14	1.63	1.52
5	B	1077	THR	N-CA	-6.14	1.38	1.46
4	A	320	ARG	CA-CB	6.13	1.63	1.53
4	A	1049	ILE	CA-C	-6.13	1.45	1.52
5	B	259	TYR	CA-CB	6.13	1.63	1.53
5	B	1069	PHE	N-CA	-6.13	1.38	1.45
4	A	667	GLY	CA-C	6.13	1.60	1.51
5	B	51	PHE	C-O	-6.13	1.17	1.24
4	A	736	ASN	N-CA	6.13	1.54	1.46
4	A	1211	GLN	CG-CD	6.13	1.67	1.52
5	B	769	TYR	CA-C	-6.13	1.45	1.53
4	A	117	GLU	N-CA	6.13	1.53	1.46
4	A	406	ILE	CA-C	-6.13	1.45	1.52
4	A	557	ASP	CB-CG	6.13	1.67	1.52
4	A	1202	MET	CA-CB	6.13	1.62	1.53
5	B	1202	LEU	CA-CB	-6.13	1.43	1.53
7	E	133	GLU	CA-CB	6.13	1.63	1.53
12	K	71	PHE	CA-CB	6.13	1.63	1.53
5	B	315	LYS	C-O	-6.13	1.16	1.24
5	B	455	SER	N-CA	6.12	1.53	1.46
4	A	736	ASN	C-O	-6.12	1.16	1.24
4	A	1021	LEU	CA-CB	-6.12	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	276	ILE	N-CA	6.12	1.53	1.46
5	B	487	THR	C-O	-6.12	1.16	1.23
8	F	134	ILE	CA-CB	-6.12	1.47	1.54
4	A	1402	PHE	CD1-CE1	6.12	1.57	1.38
11	J	12	LYS	CE-NZ	6.12	1.67	1.49
4	A	547	LEU	CG-CD1	6.12	1.72	1.52
4	A	1302	PRO	CA-CB	-6.12	1.45	1.54
4	A	325	ILE	N-CA	6.12	1.53	1.46
4	A	394	ASN	CA-C	-6.12	1.44	1.52
4	A	266	LEU	C-O	6.12	1.31	1.24
4	A	611	GLN	CA-C	-6.12	1.45	1.52
5	B	232	SER	C-N	-6.12	1.26	1.34
5	B	406	LEU	N-CA	-6.12	1.38	1.46
5	B	418	LYS	CD-CE	6.12	1.70	1.52
4	A	816	HIS	CA-CB	-6.11	1.43	1.53
5	B	307	ASP	N-CA	-6.11	1.39	1.46
5	B	887	HIS	CB-CG	6.11	1.58	1.50
6	C	61	GLU	CG-CD	6.11	1.67	1.52
9	H	45	GLU	CB-CG	6.11	1.70	1.52
5	B	1174	LYS	CG-CD	6.11	1.70	1.52
4	A	551	TYR	CA-CB	6.11	1.63	1.53
5	B	736	THR	CA-C	6.11	1.60	1.53
5	B	1084	GLN	N-CA	-6.11	1.38	1.45
8	F	120	ILE	CA-C	6.11	1.60	1.52
4	A	955	PRO	CG-CD	6.11	1.71	1.50
4	A	1417	GLU	CA-C	-6.10	1.44	1.53
4	A	68	GLN	C-N	6.10	1.42	1.33
4	A	607	ILE	CA-CB	6.10	1.62	1.54
6	C	250	THR	CA-CB	-6.10	1.43	1.53
12	K	114	LEU	CG-CD2	6.10	1.72	1.52
4	A	245	PRO	CA-C	6.10	1.61	1.52
5	B	476	ARG	CB-CG	6.10	1.70	1.52
5	B	969	ARG	CA-C	-6.10	1.45	1.52
7	E	81	GLU	CA-CB	6.09	1.61	1.52
9	H	4	THR	N-CA	6.09	1.53	1.45
4	A	645	LEU	CA-C	6.09	1.61	1.52
4	A	1156	PRO	CB-CG	6.09	1.80	1.49
4	A	971	PHE	C-N	6.09	1.42	1.33
5	B	1101	ASP	CB-CG	6.09	1.67	1.52
9	H	90	ALA	CA-C	6.09	1.60	1.52
4	A	771	GLU	CG-CD	6.09	1.67	1.52
5	B	361	LEU	CA-CB	-6.09	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	E	14	ARG	CG-CD	6.09	1.70	1.52
4	A	728	LYS	N-CA	-6.09	1.38	1.46
5	B	193	LYS	CA-C	-6.09	1.45	1.53
4	A	425	GLN	CG-CD	6.09	1.67	1.52
6	C	87	PHE	CE2-CZ	6.09	1.56	1.38
4	A	101	LYS	CD-CE	6.08	1.70	1.52
4	A	1265	ASN	CA-C	-6.08	1.46	1.53
4	A	1432	GLN	C-O	6.08	1.30	1.24
2	T	16	DC	C3'-O3'	6.08	1.60	1.42
4	A	323	LYS	CB-CG	6.08	1.70	1.52
5	B	1074	ASN	C-O	-6.08	1.16	1.24
13	L	27	LEU	CB-CG	6.08	1.65	1.53
4	A	528	LEU	CG-CD1	-6.08	1.32	1.52
4	A	773	LYS	CA-C	-6.08	1.45	1.52
4	A	947	PHE	CA-C	-6.08	1.46	1.53
5	B	429	PHE	CA-C	6.08	1.61	1.52
4	A	329	LEU	CA-C	-6.08	1.44	1.52
5	B	618	ASP	N-CA	6.08	1.53	1.46
6	C	192	TRP	CZ3-CH2	6.08	1.55	1.40
4	A	184	SER	CA-CB	6.08	1.63	1.53
4	A	425	GLN	C-O	6.08	1.31	1.24
4	A	760	GLN	N-CA	-6.08	1.38	1.46
4	A	801	GLU	CD-OE2	6.08	1.36	1.25
4	A	1128	GLN	CA-CB	6.08	1.63	1.53
5	B	115	GLN	CB-CG	6.08	1.70	1.52
4	A	1235	LYS	C-O	6.07	1.31	1.24
7	E	14	ARG	CB-CG	6.07	1.70	1.52
12	K	13	GLY	C-O	6.07	1.32	1.23
4	A	427	GLN	CB-CG	6.07	1.70	1.52
7	E	11	ARG	CB-CG	6.07	1.70	1.52
12	K	7	PHE	CA-C	-6.07	1.44	1.52
13	L	40	LEU	CB-CG	6.07	1.65	1.53
4	A	778	GLY	CA-C	-6.07	1.43	1.51
4	A	581	ALA	CA-CB	-6.07	1.43	1.53
4	A	962	ARG	CA-CB	6.07	1.62	1.53
7	E	13	TRP	CB-CG	-6.07	1.31	1.50
7	E	113	GLN	CA-CB	6.07	1.63	1.54
12	K	38	GLU	CB-CG	6.07	1.70	1.52
4	A	734	GLU	C-O	6.06	1.31	1.24
4	A	893	PHE	CD1-CE1	6.06	1.56	1.38
5	B	70	ILE	N-CA	6.06	1.57	1.46
5	B	460	ALA	CA-CB	6.06	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	598	GLU	CA-C	-6.06	1.44	1.52
6	C	180	TYR	CD1-CE1	6.06	1.56	1.38
4	A	502	SER	CA-C	-6.06	1.44	1.52
4	A	814	PHE	CA-CB	-6.06	1.42	1.53
5	B	958	GLN	CA-CB	6.06	1.63	1.53
4	A	814	PHE	N-CA	-6.06	1.38	1.46
5	B	224	GLN	N-CA	-6.06	1.38	1.46
5	B	1010	LEU	CA-C	6.06	1.59	1.52
11	J	48	ARG	CA-C	6.06	1.61	1.52
12	K	92	ASN	CA-CB	6.06	1.62	1.53
4	A	355	GLY	CA-C	-6.06	1.44	1.52
4	A	373	THR	C-O	-6.06	1.16	1.24
5	B	244	LEU	CA-CB	6.06	1.61	1.53
6	C	205	LYS	CE-NZ	6.06	1.67	1.49
4	A	153	PRO	CB-CG	6.05	1.79	1.49
5	B	933	SER	CA-CB	6.05	1.65	1.53
4	A	553	VAL	N-CA	-6.05	1.39	1.46
4	A	815	PHE	CB-CG	-6.05	1.36	1.50
5	B	622	LYS	CA-CB	6.05	1.63	1.53
7	E	61	GLN	N-CA	-6.05	1.38	1.45
3	N	3	DG	P-OP2	6.05	1.60	1.48
4	A	1144	LYS	CE-NZ	6.05	1.67	1.49
5	B	546	SER	CA-C	-6.05	1.44	1.52
5	B	861	ASP	N-CA	6.05	1.53	1.46
5	B	1110	PRO	C-O	-6.05	1.16	1.23
13	L	59	ALA	CA-C	-6.05	1.44	1.52
4	A	1036	ARG	CA-C	-6.05	1.44	1.52
5	B	866	TYR	CD1-CE1	6.05	1.56	1.38
4	A	13	THR	N-CA	-6.05	1.38	1.45
4	A	856	THR	C-O	-6.05	1.17	1.23
7	E	196	VAL	CA-CB	-6.04	1.46	1.54
11	J	13	VAL	CB-CG2	6.04	1.72	1.52
4	A	894	GLU	N-CA	-6.04	1.40	1.46
4	A	1081	LEU	CG-CD1	6.04	1.72	1.52
4	A	1391	ARG	CA-CB	6.04	1.64	1.53
5	B	198	ASP	N-CA	6.04	1.53	1.45
5	B	1090	THR	N-CA	6.04	1.53	1.46
6	C	203	GLN	CA-CB	6.04	1.62	1.53
5	B	351	TYR	CD1-CE1	6.04	1.56	1.38
4	A	1021	LEU	CG-CD2	6.04	1.72	1.52
5	B	256	VAL	CA-C	-6.03	1.45	1.52
4	A	1287	TYR	CZ-OH	6.03	1.50	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	J	64	ASN	CG-ND2	6.03	1.46	1.33
4	A	421	ALA	CA-CB	-6.03	1.44	1.53
4	A	1343	ALA	CA-C	-6.03	1.44	1.52
5	B	58	THR	C-O	-6.03	1.16	1.24
10	I	60	GLN	N-CA	6.03	1.53	1.46
5	B	210	LYS	CE-NZ	6.03	1.67	1.49
5	B	1083	ALA	CA-CB	-6.03	1.38	1.54
9	H	42	ILE	CA-C	-6.03	1.45	1.52
4	A	637	LYS	CD-CE	6.03	1.70	1.52
6	C	183	TRP	CA-C	-6.03	1.44	1.52
10	I	103	CYS	CA-CB	-6.03	1.44	1.53
7	E	95	THR	CB-CG2	6.02	1.72	1.52
5	B	116	GLU	N-CA	6.02	1.53	1.46
10	I	39	GLY	C-O	6.02	1.30	1.23
4	A	677	ARG	CG-CD	6.02	1.70	1.52
4	A	691	LEU	CA-C	6.02	1.60	1.52
4	A	725	ALA	C-O	6.02	1.31	1.24
5	B	45	SER	N-CA	6.02	1.53	1.46
5	B	244	LEU	N-CA	6.02	1.53	1.46
5	B	638	PHE	CA-C	-6.02	1.44	1.53
5	B	801	LYS	CD-CE	6.02	1.70	1.52
5	B	949	VAL	CB-CG1	-6.02	1.32	1.52
4	A	1078	GLN	C-O	-6.02	1.16	1.24
9	H	80	ARG	C-N	6.02	1.40	1.33
11	J	59	LYS	N-CA	-6.02	1.38	1.46
4	A	251	SER	C-N	6.02	1.41	1.33
4	A	1135	ARG	CA-C	6.02	1.60	1.52
5	B	238	ALA	CA-C	-6.02	1.45	1.52
4	A	290	GLU	CG-CD	6.01	1.67	1.52
5	B	38	PHE	CE2-CZ	-6.01	1.20	1.38
5	B	870	ILE	CA-CB	6.01	1.62	1.54
8	F	88	TYR	N-CA	-6.01	1.38	1.46
4	A	1028	THR	CA-CB	-6.01	1.43	1.53
4	A	897	TYR	CA-C	6.01	1.61	1.52
5	B	576	ASP	CA-C	6.01	1.60	1.52
4	A	1040	GLN	C-O	6.01	1.31	1.24
4	A	1261	LYS	CG-CD	6.01	1.70	1.52
4	A	1402	PHE	CE2-CZ	6.01	1.56	1.38
12	K	68	PHE	CA-C	6.01	1.60	1.52
4	A	843	LYS	CD-CE	6.01	1.70	1.52
5	B	107	GLY	C-O	6.01	1.32	1.23
5	B	938	SER	CA-CB	6.01	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	107	CYS	CA-CB	6.01	1.68	1.53
4	A	492	PRO	N-CA	-6.01	1.39	1.47
4	A	744	LYS	CA-C	-6.01	1.44	1.52
4	A	745	GLN	N-CA	-6.01	1.38	1.46
7	E	165	LEU	CA-CB	-6.01	1.43	1.53
13	L	62	LYS	CA-C	6.01	1.61	1.52
4	A	371	ALA	N-CA	-6.00	1.38	1.46
5	B	606	LYS	CG-CD	6.00	1.70	1.52
10	I	105	SER	CA-CB	-6.00	1.45	1.54
4	A	25	GLU	N-CA	6.00	1.53	1.46
4	A	1214	GLU	CA-CB	6.00	1.63	1.53
5	B	246	LYS	CB-CG	6.00	1.70	1.52
6	C	162	GLY	CA-C	6.00	1.58	1.51
10	I	97	MET	C-O	-6.00	1.16	1.24
5	B	488	TYR	CZ-OH	-6.00	1.25	1.38
5	B	827	ILE	CA-CB	-6.00	1.46	1.54
11	J	9	SER	CA-C	-6.00	1.44	1.52
5	B	25	ILE	N-CA	-6.00	1.38	1.46
5	B	1148	LYS	CE-NZ	6.00	1.67	1.49
4	A	949	ASP	CB-CG	6.00	1.67	1.52
5	B	226	PHE	CD1-CE1	6.00	1.56	1.38
5	B	1111	MET	CA-C	6.00	1.60	1.52
9	H	10	PHE	CD1-CE1	6.00	1.56	1.38
10	I	45	ARG	CB-CG	6.00	1.70	1.52
10	I	81	ARG	CB-CG	6.00	1.70	1.52
4	A	1043	ASP	N-CA	6.00	1.54	1.46
4	A	226	GLU	CG-CD	5.99	1.67	1.52
4	A	767	GLN	N-CA	5.99	1.53	1.46
5	B	265	SER	C-O	-5.99	1.16	1.24
6	C	123	ASN	CA-CB	5.99	1.60	1.52
5	B	653	VAL	C-O	-5.99	1.17	1.24
4	A	609	ASP	N-CA	-5.99	1.38	1.46
5	B	753	ALA	C-O	-5.99	1.16	1.24
4	A	834	THR	CA-C	-5.99	1.44	1.52
4	A	1219	THR	CB-CG2	-5.99	1.32	1.52
4	A	150	THR	N-CA	5.99	1.53	1.46
5	B	501	PRO	N-CA	5.99	1.54	1.47
4	A	849	MET	C-O	5.98	1.31	1.24
4	A	1074	GLU	CA-C	-5.98	1.45	1.52
4	A	36	ARG	CD-NE	5.98	1.54	1.46
4	A	480	ALA	N-CA	-5.98	1.38	1.45
4	A	1110	ASN	CG-ND2	5.98	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	E	32	GLN	CA-CB	-5.98	1.44	1.53
4	A	793	SER	CA-C	-5.98	1.45	1.52
4	A	1366	ARG	CA-C	-5.98	1.44	1.52
5	B	1217	TYR	CD1-CE1	-5.98	1.20	1.38
5	B	792	MET	SD-CE	5.98	1.94	1.79
5	B	1080	LYS	CD-CE	5.98	1.70	1.52
4	A	34	LYS	CA-CB	5.97	1.63	1.53
4	A	1003	LYS	CE-NZ	5.97	1.67	1.49
4	A	1059	HIS	C-O	-5.97	1.17	1.24
5	B	865	LYS	C-N	5.97	1.41	1.33
5	B	966	VAL	C-O	-5.97	1.17	1.24
6	C	178	PHE	CB-CG	-5.97	1.36	1.50
7	E	179	GLN	CD-OE1	5.97	1.34	1.23
4	A	360	GLU	CG-CD	5.97	1.67	1.52
4	A	789	LYS	CA-CB	5.97	1.63	1.53
4	A	1018	PHE	CA-C	5.97	1.60	1.52
5	B	836	GLU	CB-CG	5.97	1.70	1.52
5	B	411	PRO	CA-C	-5.97	1.44	1.52
4	A	1228	TRP	CA-CB	-5.97	1.43	1.53
5	B	892	LYS	CA-CB	5.97	1.63	1.53
4	A	952	ALA	CA-C	-5.96	1.44	1.52
6	C	228	PHE	CE1-CZ	-5.96	1.20	1.38
4	A	279	LEU	CA-C	5.96	1.60	1.52
7	E	135	PHE	CD1-CE1	5.96	1.56	1.38
10	I	91	ARG	CA-CB	5.96	1.63	1.53
11	J	49	MET	CA-C	-5.96	1.45	1.52
4	A	12	ARG	N-CA	-5.96	1.38	1.45
4	A	238	CYS	CA-C	5.96	1.60	1.52
4	A	418	SER	CA-CB	5.96	1.63	1.53
5	B	1197	PRO	C-O	-5.96	1.16	1.24
12	K	29	ASN	CB-CG	5.96	1.67	1.52
4	A	171	GLN	N-CA	5.95	1.54	1.46
5	B	646	LEU	C-N	5.95	1.42	1.33
4	A	775	ILE	CA-CB	-5.95	1.46	1.53
5	B	500	THR	N-CA	5.95	1.54	1.46
5	B	749	LEU	N-CA	-5.95	1.39	1.45
11	J	48	ARG	CA-CB	5.95	1.63	1.53
9	H	17	PRO	N-CA	5.95	1.54	1.47
5	B	101	MET	CG-SD	5.95	1.95	1.80
5	B	510	LYS	C-N	-5.95	1.28	1.33
5	B	691	GLU	CA-C	-5.95	1.45	1.52
11	J	44	TYR	CE2-CZ	5.95	1.52	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	K	16	GLU	CG-CD	5.95	1.67	1.52
13	L	69	ALA	CA-CB	-5.95	1.37	1.53
4	A	733	ALA	C-O	-5.94	1.15	1.23
4	A	997	LEU	CA-C	-5.94	1.44	1.52
5	B	474	SER	CA-C	5.94	1.60	1.52
5	B	790	ASP	CA-C	-5.94	1.45	1.52
13	L	49	LYS	C-O	5.94	1.30	1.23
4	A	1318	THR	C-N	-5.94	1.26	1.33
5	B	418	LYS	CG-CD	5.94	1.70	1.52
4	A	808	LEU	CG-CD2	5.94	1.72	1.52
4	A	127	ALA	C-N	5.93	1.41	1.33
4	A	897	TYR	N-CA	5.93	1.53	1.46
7	E	192	ARG	CA-CB	5.93	1.63	1.53
12	K	12	LEU	CA-C	-5.93	1.45	1.52
5	B	238	ALA	CA-CB	-5.93	1.39	1.53
8	F	119	ARG	CG-CD	5.93	1.70	1.52
4	A	360	GLU	CA-CB	5.93	1.62	1.53
4	A	918	GLU	CA-CB	-5.93	1.43	1.53
5	B	307	ASP	CB-CG	-5.93	1.37	1.52
5	B	866	TYR	CD2-CE2	5.93	1.56	1.38
5	B	962	LYS	CG-CD	5.93	1.70	1.52
5	B	998	ASP	CA-C	5.93	1.60	1.52
5	B	130	VAL	CB-CG2	-5.93	1.32	1.52
5	B	999	MET	SD-CE	-5.93	1.64	1.79
8	F	83	PRO	C-N	5.93	1.41	1.33
4	A	859	SER	CA-C	5.92	1.60	1.52
4	A	913	LEU	N-CA	-5.92	1.38	1.45
4	A	951	GLU	N-CA	5.92	1.53	1.46
4	A	1436	ILE	CA-CB	5.92	1.63	1.54
5	B	848	ARG	CG-CD	5.92	1.70	1.52
5	B	223	VAL	CB-CG1	5.92	1.72	1.52
4	A	752	LYS	N-CA	5.92	1.52	1.46
4	A	957	PRO	C-O	-5.92	1.16	1.23
4	A	1364	ASN	CA-C	-5.92	1.45	1.52
5	B	580	VAL	CB-CG2	-5.92	1.33	1.52
8	F	111	LEU	N-CA	5.92	1.54	1.46
10	I	2	THR	CB-CG2	5.92	1.72	1.52
5	B	106	ASP	N-CA	5.92	1.54	1.46
6	C	149	LYS	CD-CE	5.92	1.70	1.52
7	E	64	PRO	CB-CG	-5.92	1.20	1.49
4	A	1007	ILE	CA-CB	-5.92	1.47	1.54
4	A	1013	ASP	CG-OD1	5.92	1.36	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	437	GLU	CA-C	5.92	1.65	1.52
5	B	653	VAL	CA-CB	-5.92	1.46	1.54
6	C	227	THR	N-CA	-5.92	1.38	1.46
5	B	366	GLN	N-CA	5.92	1.54	1.45
5	B	624	LEU	CA-C	-5.91	1.46	1.52
5	B	935	ARG	CD-NE	5.91	1.54	1.46
4	A	486	GLU	C-O	-5.91	1.16	1.23
6	C	85	ASP	CB-CG	5.91	1.66	1.52
7	E	83	CYS	C-O	5.91	1.30	1.24
4	A	37	PHE	CD1-CE1	5.91	1.56	1.38
5	B	1089	PRO	CA-CB	-5.91	1.46	1.53
12	K	25	THR	CB-CG2	5.91	1.72	1.52
5	B	948	ILE	CA-CB	-5.91	1.46	1.54
5	B	105	SER	CA-C	5.90	1.60	1.52
7	E	113	GLN	CB-CG	5.90	1.70	1.52
4	A	252	PHE	CA-CB	5.90	1.63	1.53
5	B	591	ARG	CA-CB	5.90	1.62	1.53
5	B	625	LYS	N-CA	-5.90	1.38	1.46
6	C	232	VAL	C-O	-5.90	1.17	1.24
4	A	353	ILE	CA-C	-5.90	1.46	1.52
4	A	713	SER	CA-CB	-5.90	1.43	1.53
5	B	433	GLN	CA-C	5.90	1.60	1.52
13	L	62	LYS	CB-CG	5.90	1.70	1.52
5	B	473	MET	CB-CG	5.90	1.70	1.52
4	A	229	SER	CA-C	5.90	1.59	1.52
4	A	1389	PHE	CA-C	-5.90	1.44	1.52
9	H	42	ILE	C-O	-5.90	1.17	1.24
5	B	216	GLU	CA-C	-5.89	1.45	1.52
12	K	38	GLU	CA-C	5.89	1.60	1.52
4	A	662	PHE	CA-C	5.89	1.60	1.52
4	A	702	LEU	N-CA	5.89	1.53	1.46
4	A	991	LYS	CE-NZ	5.89	1.67	1.49
6	C	20	PHE	N-CA	-5.89	1.38	1.46
7	E	184	VAL	CA-C	-5.89	1.45	1.52
4	A	297	GLN	CB-CG	5.89	1.70	1.52
4	A	542	GLU	CA-CB	-5.89	1.44	1.53
4	A	550	LEU	CA-CB	5.89	1.62	1.53
7	E	184	VAL	N-CA	5.89	1.53	1.46
9	H	128	ASN	CB-CG	5.89	1.66	1.52
4	A	277	GLU	C-N	5.89	1.42	1.33
4	A	330	LYS	CE-NZ	5.89	1.67	1.49
4	A	1262	LYS	CG-CD	5.89	1.70	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	196	PRO	CA-CB	-5.88	1.43	1.54
12	K	57	LEU	CB-CG	5.88	1.65	1.53
4	A	119	ASN	N-CA	5.88	1.53	1.46
4	A	810	PRO	CG-CD	-5.88	1.30	1.50
5	B	251	ILE	CA-C	5.88	1.59	1.52
7	E	191	LYS	N-CA	5.88	1.53	1.45
5	B	735	ALA	CA-C	-5.88	1.44	1.52
4	A	953	ASN	CG-OD1	5.88	1.34	1.23
5	B	397	ASP	CA-C	5.88	1.60	1.52
4	A	1224	LEU	CA-C	-5.88	1.44	1.52
9	H	11	GLN	CA-CB	-5.88	1.42	1.53
5	B	701	ILE	N-CA	-5.87	1.39	1.46
5	B	1025	HIS	CA-CB	-5.87	1.43	1.53
7	E	140	LEU	CA-C	-5.87	1.45	1.52
4	A	1304	TRP	N-CA	-5.87	1.39	1.46
9	H	39	THR	C-O	5.87	1.30	1.24
4	A	1323	ASP	C-O	-5.87	1.17	1.24
4	A	1333	ILE	N-CA	-5.87	1.39	1.46
5	B	804	GLY	CA-C	5.87	1.60	1.51
5	B	1057	LYS	CD-CE	5.87	1.70	1.52
9	H	115	TYR	CA-CB	5.87	1.63	1.53
5	B	834	ASN	CA-C	-5.87	1.45	1.52
10	I	4	PHE	C-O	5.87	1.31	1.24
4	A	47	ARG	N-CA	5.87	1.53	1.46
5	B	812	LEU	C-O	5.87	1.32	1.24
4	A	226	GLU	CB-CG	5.86	1.70	1.52
5	B	956	THR	CB-CG2	5.86	1.71	1.52
9	H	124	ARG	CD-NE	5.86	1.54	1.46
4	A	112	LYS	N-CA	-5.86	1.38	1.45
4	A	506	ALA	N-CA	-5.86	1.39	1.45
4	A	933	TYR	CA-C	-5.86	1.44	1.52
4	A	1241	ARG	CD-NE	5.86	1.54	1.46
5	B	652	LYS	CG-CD	5.86	1.70	1.52
5	B	958	GLN	CB-CG	5.86	1.70	1.52
11	J	3	VAL	CA-C	-5.86	1.46	1.52
4	A	141	LEU	C-O	-5.86	1.16	1.24
4	A	977	LYS	CA-CB	5.86	1.63	1.52
4	A	1176	LEU	CG-CD2	5.86	1.71	1.52
5	B	788	ARG	N-CA	-5.86	1.38	1.45
5	B	918	ILE	N-CA	5.86	1.53	1.46
6	C	151	GLN	N-CA	-5.86	1.38	1.46
6	C	160	LYS	CA-C	-5.86	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	J	23	ASN	CA-C	-5.86	1.45	1.53
4	A	1073	GLY	CA-C	-5.85	1.45	1.51
9	H	17	PRO	CG-CD	-5.85	1.30	1.50
5	B	43	LEU	CA-CB	5.85	1.63	1.53
5	B	435	THR	CA-CB	5.85	1.62	1.53
4	A	400	PRO	CB-CG	5.85	1.78	1.49
4	A	1174	PHE	C-N	5.85	1.40	1.33
5	B	1206	GLU	CG-CD	5.85	1.66	1.52
4	A	591	PHE	CA-C	5.85	1.60	1.52
10	I	97	MET	CG-SD	5.85	1.95	1.80
1	R	1	A	C3'-O3'	5.85	1.50	1.42
4	A	905	ASP	CG-OD2	5.85	1.36	1.25
4	A	1188	GLN	N-CA	5.85	1.53	1.46
4	A	765	VAL	CA-C	-5.85	1.44	1.52
4	A	59	GLY	CA-C	5.84	1.60	1.51
4	A	895	LYS	CD-CE	5.84	1.70	1.52
4	A	1172	LEU	N-CA	-5.84	1.38	1.46
7	E	86	PRO	CA-CB	5.84	1.62	1.53
9	H	80	ARG	N-CA	5.84	1.54	1.46
4	A	1039	LYS	CE-NZ	5.84	1.66	1.49
5	B	348	ARG	N-CA	5.84	1.53	1.45
4	A	443	LEU	CG-CD1	5.84	1.71	1.52
4	A	232	GLU	CG-CD	5.84	1.66	1.52
4	A	840	ARG	CD-NE	5.84	1.54	1.46
11	J	5	VAL	CB-CG1	-5.84	1.33	1.52
12	K	1	MET	CA-CB	-5.84	1.41	1.53
13	L	64	LEU	C-O	5.84	1.31	1.24
5	B	668	ASP	CB-CG	5.84	1.66	1.52
12	K	29	ASN	CG-ND2	5.84	1.45	1.33
7	E	162	ARG	C-O	5.84	1.31	1.24
4	A	896	ARG	CB-CG	5.83	1.70	1.52
4	A	95	PHE	CA-C	-5.83	1.44	1.52
6	C	102	GLN	N-CA	-5.83	1.39	1.46
4	A	1415	SER	CA-C	-5.83	1.44	1.52
7	E	40	GLU	CA-C	5.83	1.60	1.52
7	E	123	LEU	N-CA	5.83	1.52	1.46
5	B	259	TYR	CD2-CE2	5.83	1.56	1.38
4	A	427	GLN	CA-CB	5.83	1.61	1.52
4	A	1157	ASP	N-CA	5.83	1.54	1.46
5	B	537	LYS	CA-C	-5.83	1.45	1.52
4	A	1310	GLY	C-N	-5.83	1.26	1.33
5	B	170	LEU	CA-C	-5.83	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	1048	THR	C-O	5.83	1.30	1.23
5	B	231	PRO	C-O	5.82	1.31	1.24
5	B	1019	SER	C-O	-5.82	1.16	1.24
9	H	99	GLY	CA-C	5.82	1.61	1.52
5	B	334	ILE	N-CA	-5.82	1.39	1.46
5	B	649	LYS	CD-CE	5.82	1.70	1.52
6	C	205	LYS	CA-CB	5.82	1.62	1.53
10	I	65	ASP	CA-C	5.82	1.60	1.53
4	A	186	LYS	CG-CD	5.82	1.70	1.52
4	A	443	LEU	C-O	-5.82	1.17	1.24
4	A	1125	ALA	CA-C	5.82	1.60	1.52
4	A	1212	VAL	CA-CB	-5.82	1.46	1.54
4	A	1443	VAL	C-N	5.81	1.40	1.33
5	B	226	PHE	CE1-CZ	5.81	1.56	1.38
5	B	799	PRO	C-N	5.81	1.41	1.33
4	A	1362	TYR	CE2-CZ	5.81	1.52	1.38
5	B	34	ILE	C-O	-5.81	1.17	1.24
5	B	174	LEU	N-CA	-5.81	1.39	1.46
7	E	86	PRO	N-CA	5.81	1.54	1.47
5	B	496	ARG	CA-CB	5.81	1.62	1.53
5	B	773	MET	CG-SD	5.81	1.95	1.80
6	C	129	ILE	CA-CB	-5.80	1.46	1.54
6	C	161	LYS	CG-CD	5.80	1.69	1.52
12	K	14	GLU	CG-CD	5.80	1.66	1.52
5	B	455	SER	CA-CB	-5.80	1.44	1.53
7	E	209	ALA	N-CA	-5.80	1.39	1.46
9	H	7	ASP	N-CA	-5.80	1.38	1.45
9	H	105	GLU	CD-OE2	5.80	1.36	1.25
12	K	47	ARG	CB-CG	5.80	1.69	1.52
4	A	411	ASP	CA-CB	5.80	1.63	1.53
8	F	146	TRP	CA-C	5.80	1.59	1.52
10	I	16	PRO	C-O	5.80	1.31	1.24
4	A	1261	LYS	CD-CE	5.80	1.69	1.52
4	A	374	LEU	CA-CB	-5.80	1.43	1.53
4	A	398	GLU	CG-CD	5.80	1.66	1.52
4	A	439	ASN	N-CA	-5.80	1.35	1.46
5	B	600	LEU	N-CA	5.80	1.53	1.46
6	C	76	ASP	CA-C	5.80	1.60	1.52
6	C	110	THR	CA-CB	5.80	1.63	1.53
9	H	58	THR	CB-CG2	5.80	1.71	1.52
4	A	84	ILE	CA-C	-5.79	1.45	1.52
4	A	918	GLU	N-CA	-5.79	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	C	151	GLN	CD-NE2	5.79	1.45	1.33
6	C	165	LYS	CG-CD	5.79	1.69	1.52
4	A	1164	PRO	CA-C	5.79	1.60	1.52
8	F	116	ASP	CB-CG	5.79	1.66	1.52
5	B	578	THR	N-CA	-5.79	1.39	1.46
5	B	858	SER	C-O	-5.79	1.16	1.23
5	B	879	ARG	CA-CB	5.79	1.63	1.53
5	B	1021	MET	CA-C	-5.79	1.45	1.53
4	A	1000	LEU	CG-CD2	5.79	1.71	1.52
5	B	791	THR	CA-C	-5.78	1.45	1.52
5	B	1188	LYS	CA-CB	5.78	1.62	1.54
6	C	87	PHE	CA-C	-5.78	1.43	1.52
11	J	47	ARG	CA-CB	-5.78	1.44	1.53
7	E	165	LEU	CB-CG	-5.78	1.41	1.53
11	J	54	VAL	C-O	5.78	1.30	1.24
6	C	129	ILE	CB-CG2	-5.78	1.33	1.52
10	I	61	ASP	CB-CG	5.78	1.66	1.52
10	I	102	VAL	C-O	-5.78	1.17	1.24
5	B	270	LYS	N-CA	-5.78	1.38	1.45
6	C	60	ASP	CA-C	5.78	1.60	1.52
12	K	14	GLU	CB-CG	5.78	1.69	1.52
4	A	595	THR	CA-C	-5.78	1.45	1.52
5	B	29	ASP	CA-CB	5.78	1.63	1.53
5	B	966	VAL	CB-CG1	-5.78	1.33	1.52
4	A	782	ARG	CA-CB	-5.77	1.43	1.53
4	A	944	ARG	CG-CD	-5.77	1.35	1.52
11	J	44	TYR	C-O	-5.77	1.16	1.24
4	A	124	GLN	CA-CB	5.77	1.63	1.53
4	A	434	ARG	N-CA	-5.77	1.38	1.45
4	A	1132	LYS	CD-CE	5.77	1.69	1.52
4	A	1196	GLU	N-CA	5.77	1.53	1.45
8	F	137	TYR	CA-C	5.77	1.59	1.52
5	B	29	ASP	CA-C	5.77	1.60	1.52
5	B	822	ASN	N-CA	-5.77	1.38	1.46
4	A	792	TYR	N-CA	5.77	1.53	1.46
5	B	1201	LYS	CB-CG	5.77	1.69	1.52
6	C	62	PHE	N-CA	-5.77	1.39	1.46
7	E	205	SER	CA-CB	5.77	1.63	1.53
8	F	75	PRO	CA-CB	-5.77	1.45	1.53
4	A	1262	LYS	CB-CG	5.77	1.69	1.52
4	A	1334	ASP	CA-C	5.77	1.60	1.52
5	B	689	LEU	CG-CD1	-5.77	1.33	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	693	VAL	C-O	-5.76	1.17	1.24
5	B	538	ASN	CG-OD1	5.76	1.34	1.23
5	B	601	ARG	CA-C	5.76	1.60	1.52
7	E	93	MET	CA-C	5.76	1.60	1.52
13	L	26	THR	C-N	5.76	1.41	1.33
4	A	698	GLN	CG-CD	5.76	1.66	1.52
5	B	38	PHE	CB-CG	-5.76	1.37	1.50
12	K	1	MET	CB-CG	5.76	1.69	1.52
4	A	1228	TRP	C-O	-5.76	1.17	1.23
8	F	119	ARG	CD-NE	5.76	1.54	1.46
13	L	33	GLU	CB-CG	5.76	1.69	1.52
5	B	948	ILE	CA-C	-5.76	1.45	1.52
7	E	145	THR	C-O	-5.76	1.16	1.24
5	B	702	LEU	CG-CD1	5.75	1.71	1.52
6	C	156	THR	N-CA	-5.75	1.36	1.46
5	B	418	LYS	CB-CG	5.75	1.69	1.52
6	C	88	CYS	CB-SG	-5.75	1.62	1.81
6	C	124	LEU	N-CA	-5.75	1.39	1.46
4	A	1208	THR	CA-C	5.75	1.60	1.53
5	B	311	LEU	CA-C	-5.75	1.45	1.52
4	A	926	GLN	CA-C	-5.75	1.44	1.52
5	B	333	PHE	CE2-CZ	5.75	1.55	1.38
4	A	1298	TYR	N-CA	-5.75	1.39	1.46
5	B	259	TYR	CB-CG	5.75	1.64	1.51
5	B	866	TYR	N-CA	5.75	1.54	1.46
5	B	647	GLY	CA-C	5.75	1.59	1.51
5	B	1115	THR	CA-CB	-5.75	1.43	1.53
5	B	1158	PHE	CD2-CE2	5.75	1.55	1.38
12	K	11	LEU	C-O	-5.75	1.17	1.24
4	A	54	ASN	N-CA	-5.74	1.38	1.46
5	B	273	LEU	CA-CB	5.74	1.62	1.53
5	B	960	GLY	CA-C	5.74	1.59	1.51
9	H	61	SER	CA-C	5.74	1.60	1.52
4	A	687	LYS	CB-CG	5.74	1.69	1.52
5	B	395	GLN	CA-C	5.74	1.60	1.52
8	F	85	MET	N-CA	5.74	1.52	1.46
4	A	208	LEU	CG-CD2	5.74	1.71	1.52
5	B	115	GLN	CA-C	5.74	1.60	1.52
4	A	1161	THR	CA-C	-5.74	1.45	1.52
6	C	167	HIS	N-CA	-5.74	1.39	1.46
5	B	630	ALA	CA-C	5.74	1.59	1.52
4	A	248	PRO	CA-CB	-5.73	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	658	LEU	CA-CB	-5.73	1.43	1.53
5	B	217	ARG	N-CA	-5.73	1.38	1.46
5	B	567	GLU	CA-CB	5.73	1.62	1.53
5	B	962	LYS	CD-CE	5.73	1.69	1.52
8	F	91	ALA	N-CA	-5.73	1.38	1.46
11	J	51	LEU	C-N	-5.73	1.26	1.33
5	B	407	ASP	CG-OD2	5.73	1.36	1.25
7	E	102	GLU	CA-CB	5.73	1.63	1.53
5	B	1046	PRO	C-O	5.73	1.31	1.24
5	B	1212	ILE	C-O	-5.73	1.17	1.24
4	A	274	ILE	C-N	5.72	1.41	1.33
6	C	221	TYR	CG-CD2	5.72	1.51	1.39
8	F	76	LYS	CE-NZ	5.72	1.66	1.49
4	A	337	ARG	CD-NE	5.72	1.54	1.46
4	A	1387	HIS	N-CA	5.72	1.54	1.47
5	B	61	ASP	N-CA	5.72	1.53	1.46
5	B	165	VAL	CA-C	5.72	1.59	1.52
5	B	895	ASP	CA-C	-5.72	1.45	1.52
10	I	101	PHE	CA-CB	-5.72	1.42	1.53
7	E	42	PHE	C-O	5.72	1.31	1.24
4	A	116	ASP	CB-CG	5.72	1.66	1.52
4	A	455	MET	SD-CE	-5.72	1.65	1.79
4	A	732	LEU	CA-C	-5.72	1.44	1.52
4	A	1235	LYS	CD-CE	5.72	1.69	1.52
5	B	122	LEU	CA-C	5.72	1.61	1.53
5	B	320	ASP	CA-C	-5.72	1.44	1.52
4	A	76	GLU	CA-C	5.72	1.60	1.52
4	A	438	ASP	N-CA	-5.72	1.38	1.46
5	B	555	ILE	CA-CB	-5.72	1.46	1.54
6	C	204	SER	N-CA	5.72	1.53	1.45
9	H	136	LYS	CA-C	5.72	1.60	1.53
10	I	91	ARG	CZ-NH2	5.72	1.40	1.33
5	B	1095	LEU	N-CA	5.72	1.52	1.45
5	B	27	ALA	CA-CB	-5.71	1.43	1.53
5	B	411	PRO	CB-CG	5.71	1.78	1.49
5	B	1150	ARG	CA-C	-5.71	1.45	1.52
6	C	30	ALA	CA-C	5.71	1.60	1.52
8	F	94	LEU	CG-CD2	5.71	1.71	1.52
12	K	38	GLU	CD-OE2	5.71	1.36	1.25
4	A	717	ASN	CA-C	-5.71	1.45	1.52
5	B	1060	ARG	N-CA	5.71	1.53	1.46
7	E	29	PHE	CE2-CZ	5.71	1.55	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	I	51	ASN	C-N	5.71	1.41	1.33
5	B	291	ILE	N-CA	-5.71	1.40	1.46
5	B	1002	THR	CA-C	5.71	1.60	1.53
5	B	1136	ASP	CG-OD2	5.71	1.36	1.25
9	H	44	VAL	CA-CB	-5.71	1.46	1.54
12	K	3	ALA	C-O	-5.71	1.17	1.24
13	L	61	THR	CA-CB	-5.71	1.42	1.54
5	B	270	LYS	CA-CB	-5.71	1.44	1.54
6	C	67	LEU	CG-CD2	5.71	1.71	1.52
6	C	222	LYS	CA-C	-5.71	1.44	1.52
7	E	25	ASP	CB-CG	5.71	1.66	1.52
10	I	84	VAL	CA-C	-5.71	1.45	1.52
4	A	1168	GLU	CA-CB	5.70	1.63	1.53
4	A	718	VAL	CA-CB	-5.70	1.47	1.54
5	B	914	LYS	CD-CE	5.70	1.69	1.52
5	B	958	GLN	CG-CD	5.70	1.66	1.52
6	C	201	TRP	CG-CD2	-5.70	1.33	1.43
8	F	113	GLY	CA-C	-5.70	1.43	1.51
4	A	499	ALA	CA-C	-5.70	1.45	1.52
5	B	501	PRO	C-O	-5.70	1.16	1.23
6	C	175	ALA	N-CA	-5.70	1.39	1.46
7	E	94	LYS	CG-CD	5.70	1.69	1.52
7	E	128	PRO	CA-CB	5.70	1.61	1.54
4	A	885	THR	C-O	-5.70	1.17	1.24
5	B	284	ILE	CA-C	5.70	1.59	1.52
5	B	769	TYR	C-O	-5.70	1.17	1.23
10	I	14	LEU	CB-CG	-5.70	1.42	1.53
4	A	478	TYR	CB-CG	-5.70	1.39	1.51
5	B	951	GLN	CB-CG	5.70	1.69	1.52
5	B	1045	SER	CA-CB	-5.70	1.45	1.53
12	K	51	LEU	CG-CD1	5.70	1.71	1.52
12	K	92	ASN	N-CA	5.70	1.53	1.46
4	A	127	ALA	CA-CB	5.70	1.62	1.53
5	B	1220	ARG	C-O	5.70	1.31	1.24
9	H	37	LYS	CE-NZ	5.70	1.66	1.49
4	A	11	LEU	CB-CG	-5.69	1.42	1.53
4	A	858	ASN	CA-CB	-5.69	1.44	1.53
5	B	1222	ARG	CD-NE	5.69	1.54	1.46
12	K	18	LYS	C-O	-5.69	1.17	1.24
5	B	298	LEU	CG-CD1	-5.69	1.33	1.52
4	A	181	LEU	CA-C	5.69	1.60	1.52
5	B	417	PHE	CA-C	-5.69	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	F	123	LYS	CB-CG	5.69	1.69	1.52
10	I	89	GLN	CA-C	5.69	1.60	1.52
6	C	87	PHE	N-CA	-5.69	1.39	1.46
4	A	483	ASP	C-O	-5.68	1.16	1.23
4	A	754	SER	N-CA	5.68	1.53	1.46
4	A	1285	MET	C-O	5.68	1.31	1.24
4	A	1243	VAL	N-CA	5.68	1.57	1.46
5	B	419	THR	CA-C	5.68	1.60	1.52
5	B	328	GLU	CA-C	-5.68	1.44	1.52
5	B	1161	HIS	CA-C	-5.68	1.45	1.52
4	A	1064	VAL	CB-CG1	5.67	1.71	1.52
5	B	472	ALA	CA-CB	5.67	1.63	1.53
4	A	1169	ILE	CB-CG2	5.67	1.71	1.52
4	A	1362	TYR	CB-CG	5.67	1.64	1.51
5	B	965	LYS	CE-NZ	5.67	1.66	1.49
6	C	84	ARG	CG-CD	5.67	1.69	1.52
8	F	117	PRO	CA-C	5.67	1.60	1.52
12	K	33	ILE	CA-CB	-5.67	1.47	1.53
4	A	479	ASN	CG-OD1	5.67	1.34	1.23
4	A	674	PRO	CG-CD	5.67	1.70	1.50
5	B	60	GLN	CB-CG	5.67	1.69	1.52
5	B	114	PRO	CA-CB	-5.67	1.45	1.53
5	B	91	SER	CA-CB	5.67	1.63	1.53
5	B	278	GLN	CA-C	5.67	1.60	1.52
5	B	487	THR	N-CA	-5.67	1.39	1.46
6	C	55	THR	CA-CB	-5.67	1.44	1.53
6	C	248	ILE	CA-C	-5.67	1.45	1.52
4	A	764	CYS	N-CA	5.67	1.52	1.46
6	C	204	SER	CA-C	-5.67	1.45	1.53
6	C	224	GLN	CG-CD	5.67	1.66	1.52
5	B	95	ILE	C-O	-5.66	1.16	1.23
5	B	235	SER	CA-CB	-5.66	1.40	1.54
5	B	587	HIS	CA-CB	5.66	1.62	1.53
10	I	114	GLN	CA-C	5.66	1.60	1.52
4	A	677	ARG	CB-CG	5.66	1.69	1.52
4	A	1372	VAL	CA-CB	-5.66	1.46	1.54
6	C	42	PRO	N-CD	-5.66	1.39	1.47
4	A	463	ILE	CA-CB	5.66	1.61	1.54
4	A	186	LYS	N-CA	5.66	1.56	1.46
4	A	1001	ARG	CB-CG	5.66	1.69	1.52
7	E	3	GLN	C-O	5.66	1.31	1.24
4	A	1320	PRO	C-O	5.65	1.30	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	409	ALA	CA-C	-5.65	1.45	1.52
4	A	689	LYS	CE-NZ	5.65	1.66	1.49
4	A	979	SER	N-CA	-5.65	1.38	1.46
4	A	1329	THR	C-O	5.65	1.31	1.23
4	A	1355	VAL	CA-C	-5.65	1.46	1.52
5	B	101	MET	N-CA	-5.65	1.38	1.46
5	B	104	GLU	CG-CD	5.65	1.66	1.52
5	B	250	PHE	CD2-CE2	5.65	1.55	1.38
5	B	429	PHE	CG-CD2	5.65	1.50	1.38
5	B	726	ALA	N-CA	-5.65	1.38	1.45
9	H	144	ILE	N-CA	-5.65	1.39	1.46
4	A	983	ILE	C-O	-5.65	1.17	1.24
10	I	85	PHE	CA-C	-5.65	1.45	1.53
4	A	890	ASP	CA-C	-5.65	1.45	1.52
4	A	946	VAL	C-O	5.65	1.30	1.24
6	C	161	LYS	CD-CE	5.65	1.69	1.52
4	A	963	ILE	CA-CB	-5.65	1.46	1.54
4	A	1281	ARG	CA-C	-5.65	1.45	1.52
5	B	795	ILE	CA-CB	-5.65	1.45	1.55
4	A	130	ASP	CB-CG	5.64	1.66	1.52
4	A	899	VAL	C-N	5.64	1.42	1.33
4	A	1378	GLN	CG-CD	5.64	1.66	1.52
10	I	64	SER	C-O	5.64	1.31	1.23
4	A	254	GLU	C-O	5.64	1.31	1.24
4	A	530	GLY	N-CA	5.64	1.52	1.45
4	A	1059	HIS	CA-CB	5.64	1.62	1.53
5	B	373	ARG	CB-CG	5.64	1.69	1.52
5	B	714	GLU	CG-CD	5.64	1.66	1.52
5	B	392	ARG	N-CA	5.64	1.53	1.46
11	J	40	GLY	CA-C	-5.64	1.44	1.51
4	A	176	LYS	CB-CG	5.64	1.69	1.52
4	A	446	ARG	C-O	5.64	1.30	1.23
5	B	361	LEU	CB-CG	-5.64	1.42	1.53
6	C	137	LYS	CA-CB	5.64	1.62	1.53
7	E	182	ASP	CA-C	-5.64	1.45	1.52
8	F	94	LEU	C-O	-5.64	1.16	1.24
4	A	393	ARG	CB-CG	5.64	1.69	1.52
5	B	785	TYR	C-O	5.64	1.31	1.24
5	B	1064	TYR	CE2-CZ	5.64	1.51	1.38
6	C	164	ALA	CA-CB	-5.64	1.44	1.53
8	F	129	LYS	CG-CD	5.64	1.69	1.52
5	B	21	GLU	CG-CD	5.63	1.66	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	231	PRO	N-CA	5.63	1.54	1.47
5	B	359	GLU	CA-C	5.63	1.60	1.53
5	B	377	PHE	N-CA	-5.63	1.39	1.46
4	A	1126	ALA	N-CA	5.63	1.53	1.46
5	B	207	GLY	C-O	5.63	1.32	1.24
7	E	166	LYS	CA-C	5.63	1.59	1.52
4	A	1138	ILE	CA-C	5.63	1.60	1.52
6	C	5	GLY	CA-C	5.63	1.59	1.51
6	C	173	ALA	CA-C	-5.63	1.48	1.52
7	E	9	ILE	C-N	5.63	1.40	1.33
7	E	16	PHE	N-CA	-5.63	1.39	1.46
9	H	87	ARG	CG-CD	5.63	1.69	1.52
9	H	130	ARG	CB-CG	-5.63	1.35	1.52
4	A	1102	LYS	CE-NZ	5.63	1.66	1.49
4	A	1310	GLY	CA-C	-5.63	1.44	1.51
5	B	421	PHE	C-O	5.63	1.31	1.24
7	E	55	ARG	CB-CG	5.63	1.69	1.52
4	A	1115	SER	CA-C	5.62	1.60	1.52
6	C	13	ALA	CA-CB	-5.62	1.43	1.53
6	C	25	VAL	CA-C	-5.62	1.45	1.52
6	C	253	LYS	CE-NZ	5.62	1.66	1.49
7	E	29	PHE	CD1-CE1	5.62	1.55	1.38
7	E	104	ASN	N-CA	5.62	1.53	1.46
7	E	214	CYS	CA-C	-5.62	1.45	1.52
8	F	87	LYS	CD-CE	5.62	1.69	1.52
4	A	305	ASP	CB-CG	5.62	1.66	1.52
5	B	31	TRP	N-CA	-5.62	1.38	1.46
5	B	303	TYR	N-CA	5.62	1.53	1.46
4	A	1398	MET	CA-C	-5.62	1.45	1.52
5	B	1120	GLU	CD-OE2	5.62	1.36	1.25
5	B	1153	GLU	CG-CD	5.62	1.66	1.52
7	E	208	TYR	CA-C	5.62	1.59	1.52
9	H	79	TRP	CA-C	-5.62	1.45	1.52
4	A	447	GLN	C-O	-5.62	1.17	1.24
5	B	903	VAL	CB-CG2	-5.62	1.34	1.52
6	C	58	LEU	N-CA	5.62	1.52	1.46
7	E	143	ASN	CA-C	5.62	1.59	1.52
8	F	110	ASP	N-CA	5.62	1.53	1.46
8	F	149	GLU	CG-CD	5.62	1.66	1.52
9	H	80	ARG	C-O	-5.62	1.17	1.24
4	A	12	ARG	CA-CB	-5.61	1.43	1.53
4	A	37	PHE	CG-CD2	5.61	1.50	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	48	LEU	CA-C	-5.61	1.46	1.52
5	B	50	SER	C-O	-5.61	1.17	1.24
5	B	133	LYS	CE-NZ	5.61	1.66	1.49
5	B	1031	LEU	C-O	5.61	1.30	1.24
6	C	98	VAL	C-O	-5.61	1.18	1.24
5	B	1014	PRO	N-CA	5.61	1.53	1.47
5	B	1189	ILE	CB-CG1	5.61	1.64	1.53
5	B	1202	LEU	CG-CD2	5.61	1.71	1.52
12	K	82	ASP	CA-C	-5.61	1.45	1.52
4	A	1199	ARG	CB-CG	5.61	1.69	1.52
4	A	1301	GLU	CB-CG	5.61	1.69	1.52
5	B	1187	ASN	N-CA	-5.61	1.39	1.46
4	A	351	THR	C-O	-5.61	1.19	1.24
4	A	566	ILE	CA-C	-5.61	1.47	1.52
10	I	17	ARG	C-O	5.61	1.31	1.24
5	B	825	VAL	CA-C	-5.61	1.45	1.52
5	B	840	ILE	N-CA	-5.61	1.39	1.46
7	E	192	ARG	CG-CD	5.61	1.69	1.52
4	A	1404	GLU	N-CA	5.60	1.53	1.46
4	A	492	PRO	CB-CG	5.60	1.77	1.49
4	A	1036	ARG	C-O	-5.60	1.17	1.24
5	B	552	MET	CG-SD	5.60	1.94	1.80
5	B	619	ILE	CB-CG2	-5.60	1.34	1.52
7	E	47	CYS	C-O	5.60	1.30	1.24
7	E	68	SER	CA-C	-5.60	1.44	1.52
13	L	66	GLN	CB-CG	5.60	1.69	1.52
4	A	533	LYS	CE-NZ	5.60	1.66	1.49
4	A	1109	LYS	CB-CG	5.60	1.69	1.52
4	A	78	PRO	C-O	-5.60	1.17	1.23
4	A	409	SER	C-O	5.60	1.31	1.24
4	A	1055	ARG	CD-NE	5.60	1.54	1.46
5	B	475	SER	CA-CB	5.60	1.62	1.53
5	B	1102	LYS	N-CA	-5.60	1.38	1.45
4	A	98	LYS	CD-CE	5.60	1.69	1.52
6	C	137	LYS	N-CA	5.60	1.53	1.46
8	F	73	ALA	N-CA	5.60	1.53	1.46
4	A	282	ASN	CA-CB	5.60	1.62	1.53
5	B	915	THR	CA-CB	-5.59	1.43	1.53
4	A	295	LEU	CA-C	5.59	1.60	1.52
4	A	1004	ASN	C-O	5.59	1.30	1.23
4	A	1110	ASN	N-CA	5.59	1.53	1.46
5	B	770	GLN	CA-CB	-5.59	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	269	ILE	CA-C	5.59	1.59	1.52
5	B	737	THR	CA-CB	5.59	1.62	1.53
6	C	43	THR	N-CA	-5.59	1.39	1.46
7	E	68	SER	N-CA	5.59	1.53	1.46
13	L	46	VAL	CA-CB	-5.59	1.46	1.54
4	A	912	LEU	CA-C	-5.58	1.45	1.52
12	K	49	GLU	C-N	-5.58	1.25	1.33
4	A	1054	LEU	CB-CG	-5.58	1.42	1.53
5	B	433	GLN	N-CA	5.58	1.53	1.46
6	C	98	VAL	CA-CB	-5.58	1.47	1.54
4	A	10	PRO	CA-C	5.58	1.60	1.52
4	A	1002	GLY	C-O	5.58	1.31	1.23
6	C	185	LYS	CD-CE	5.58	1.69	1.52
7	E	113	GLN	CA-C	-5.58	1.45	1.52
4	A	450	LEU	CB-CG	5.58	1.64	1.53
6	C	32	SER	N-CA	-5.58	1.38	1.46
4	A	411	ASP	CG-OD2	5.58	1.35	1.25
4	A	1100	ARG	C-O	-5.58	1.17	1.24
4	A	1377	THR	C-O	-5.58	1.17	1.23
8	F	81	THR	CB-CG2	-5.58	1.34	1.52
4	A	60	SER	N-CA	5.58	1.53	1.46
6	C	56	THR	CB-CG2	-5.58	1.34	1.52
4	A	78	PRO	CG-CD	5.58	1.69	1.50
5	B	1096	ARG	C-O	-5.58	1.16	1.23
6	C	44	LEU	N-CA	-5.58	1.39	1.46
4	A	1420	ASP	CA-CB	5.57	1.62	1.53
7	E	141	VAL	CA-CB	-5.57	1.46	1.54
6	C	266	ASP	C-O	5.57	1.31	1.24
7	E	120	ALA	CA-CB	5.57	1.62	1.53
7	E	180	ARG	CZ-NH2	5.57	1.40	1.33
4	A	822	GLU	CD-OE2	5.57	1.35	1.25
5	B	213	ILE	CA-C	-5.57	1.46	1.52
5	B	275	TYR	CG-CD2	5.57	1.51	1.39
5	B	1194	ILE	CA-C	5.57	1.59	1.52
4	A	569	LYS	CD-CE	5.57	1.69	1.52
5	B	668	ASP	CA-C	5.57	1.64	1.52
5	B	900	ALA	C-O	-5.57	1.17	1.23
6	C	192	TRP	CD2-CE2	5.57	1.50	1.41
4	A	375	THR	N-CA	-5.57	1.38	1.45
4	A	1235	LYS	CG-CD	5.57	1.69	1.52
5	B	497	ARG	CB-CG	5.57	1.69	1.52
8	F	134	ILE	CB-CG2	5.57	1.71	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	K	29	ASN	N-CA	5.57	1.55	1.46
4	A	679	ILE	N-CA	-5.56	1.39	1.46
7	E	53	PRO	CA-CB	-5.56	1.45	1.53
4	A	1017	LEU	CA-CB	5.56	1.61	1.53
5	B	35	SER	C-O	-5.56	1.17	1.24
5	B	491	THR	CA-CB	-5.56	1.43	1.53
7	E	2	ASP	CA-C	5.56	1.64	1.52
9	H	38	LEU	CG-CD2	5.56	1.71	1.52
4	A	832	ALA	N-CA	-5.56	1.39	1.46
6	C	264	GLN	CG-CD	5.56	1.66	1.52
4	A	576	GLN	CD-OE1	5.56	1.34	1.23
4	A	1021	LEU	N-CA	-5.56	1.39	1.46
5	B	604	ARG	N-CA	-5.56	1.38	1.46
5	B	1017	ILE	CB-CG2	5.56	1.70	1.52
5	B	1219	ASP	C-O	5.56	1.30	1.23
7	E	184	VAL	CA-CB	5.56	1.61	1.55
4	A	254	GLU	C-N	5.56	1.42	1.33
4	A	924	LYS	N-CA	5.56	1.52	1.46
5	B	90	ILE	N-CA	5.56	1.56	1.46
6	C	207	CYS	CA-C	-5.56	1.45	1.52
12	K	66	PRO	C-O	-5.56	1.17	1.24
6	C	172	PRO	CA-C	-5.56	1.44	1.52
4	A	392	VAL	CB-CG1	-5.55	1.34	1.52
5	B	451	LYS	CG-CD	5.55	1.69	1.52
10	I	9	ASP	CG-OD2	5.55	1.35	1.25
10	I	19	ASP	CB-CG	5.55	1.66	1.52
6	C	256	ALA	N-CA	-5.55	1.39	1.46
4	A	460	VAL	CA-C	-5.55	1.46	1.52
4	A	1009	ASN	N-CA	5.55	1.53	1.46
4	A	1384	VAL	CB-CG2	-5.55	1.34	1.52
5	B	404	LYS	CD-CE	5.55	1.69	1.52
4	A	488	ASN	CG-ND2	5.55	1.45	1.33
4	A	530	GLY	C-N	5.55	1.41	1.33
5	B	839	MET	SD-CE	-5.55	1.65	1.79
5	B	117	ALA	CA-CB	-5.55	1.45	1.53
5	B	747	MET	C-O	-5.55	1.16	1.24
6	C	185	LYS	CA-CB	-5.55	1.44	1.53
10	I	95	THR	C-O	-5.55	1.16	1.23
4	A	460	VAL	N-CA	-5.55	1.39	1.46
4	A	690	VAL	C-O	-5.55	1.17	1.24
4	A	786	HIS	CB-CG	-5.55	1.42	1.50
4	A	1030	ARG	C-O	5.55	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	I	16	PRO	CB-CG	5.55	1.77	1.49
7	E	169	ARG	CA-C	-5.54	1.46	1.53
5	B	270	LYS	CE-NZ	5.54	1.66	1.49
5	B	419	THR	CA-CB	-5.54	1.44	1.53
5	B	855	PHE	CD2-CE2	5.54	1.55	1.38
5	B	326	ASP	N-CA	5.54	1.53	1.46
4	A	42	ASP	CA-C	5.54	1.59	1.52
5	B	210	LYS	CA-C	-5.54	1.46	1.52
4	A	1077	THR	CB-CG2	5.54	1.70	1.52
10	I	17	ARG	CB-CG	5.54	1.69	1.52
4	A	260	ASP	N-CA	5.54	1.52	1.45
4	A	422	GLY	CA-C	5.54	1.57	1.51
4	A	208	LEU	CG-CD1	5.53	1.70	1.52
4	A	303	TYR	CZ-OH	5.53	1.49	1.38
4	A	485	ASP	CB-CG	5.53	1.65	1.52
5	B	953	LEU	CG-CD2	5.53	1.70	1.52
4	A	80	HIS	CA-C	5.53	1.59	1.52
4	A	228	PHE	CA-C	-5.53	1.45	1.52
4	A	917	SER	C-O	-5.53	1.17	1.24
7	E	171	LYS	CG-CD	5.53	1.69	1.52
12	K	5	ASP	CA-CB	5.53	1.62	1.53
4	A	602	ASP	CA-C	5.53	1.60	1.53
4	A	829	VAL	CB-CG2	5.53	1.70	1.52
5	B	419	THR	N-CA	5.53	1.53	1.46
12	K	67	PHE	CD1-CE1	-5.53	1.22	1.38
4	A	497	THR	CA-C	-5.53	1.45	1.52
4	A	711	ARG	N-CA	-5.53	1.38	1.46
5	B	694	ASP	CB-CG	5.53	1.65	1.52
5	B	1221	SER	CB-OG	5.53	1.53	1.42
13	L	48	CYS	CA-C	5.53	1.60	1.52
4	A	894	GLU	CA-CB	-5.52	1.46	1.53
4	A	1039	LYS	CA-CB	5.52	1.62	1.53
4	A	36	ARG	CG-CD	5.52	1.69	1.52
4	A	176	LYS	CA-CB	5.52	1.61	1.53
4	A	1035	TYR	CA-C	-5.52	1.47	1.53
4	A	1272	THR	N-CA	-5.52	1.39	1.46
5	B	326	ASP	CA-C	5.52	1.60	1.52
5	B	386	LEU	CG-CD1	5.52	1.70	1.52
5	B	401	PHE	C-O	5.52	1.30	1.24
5	B	1118	PRO	CA-CB	-5.52	1.45	1.53
7	E	54	GLN	CG-CD	5.52	1.65	1.52
10	I	107	SER	C-N	5.52	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1403	GLU	CG-CD	5.52	1.65	1.52
4	A	1444	MET	CG-SD	5.52	1.94	1.80
5	B	820	GLY	CA-C	5.52	1.59	1.51
10	I	11	ASN	C-O	-5.52	1.17	1.24
4	A	1435	PRO	CB-CG	5.52	1.77	1.49
5	B	1107	ALA	C-O	-5.52	1.17	1.24
6	C	203	GLN	CG-CD	5.52	1.65	1.52
4	A	655	PHE	CB-CG	-5.51	1.38	1.50
5	B	128	LEU	N-CA	-5.51	1.39	1.46
5	B	1116	ARG	CG-CD	-5.51	1.35	1.52
6	C	198	ALA	C-O	-5.51	1.17	1.24
8	F	140	ASP	CA-C	-5.51	1.46	1.53
4	A	123	ARG	CB-CG	5.51	1.69	1.52
4	A	1031	VAL	CA-C	-5.51	1.46	1.52
4	A	1289	ARG	CB-CG	5.51	1.69	1.52
6	C	112	ASN	CA-CB	5.51	1.62	1.53
5	B	1157	ALA	C-O	-5.51	1.16	1.23
4	A	684	ALA	CA-C	5.51	1.60	1.52
4	A	936	LEU	C-O	5.51	1.31	1.24
4	A	1029	ARG	CA-C	-5.51	1.44	1.52
5	B	294	ASP	CA-C	5.51	1.60	1.52
5	B	434	ARG	CG-CD	5.51	1.69	1.52
6	C	253	LYS	CD-CE	5.51	1.69	1.52
7	E	81	GLU	CG-CD	5.51	1.65	1.52
4	A	1288	ASP	CG-OD2	5.51	1.35	1.25
5	B	455	SER	CA-C	5.51	1.60	1.52
12	K	112	GLN	CD-NE2	5.51	1.44	1.33
4	A	217	LYS	CG-CD	5.51	1.69	1.52
4	A	388	LEU	CA-CB	-5.51	1.44	1.53
5	B	489	SER	N-CA	5.51	1.53	1.46
5	B	539	LEU	N-CA	-5.51	1.39	1.45
4	A	654	ASN	CB-CG	-5.50	1.38	1.52
7	E	60	PHE	C-O	5.50	1.31	1.23
7	E	70	SER	CA-CB	5.50	1.62	1.53
8	F	155	LEU	C-OXT	5.50	1.34	1.23
4	A	25	GLU	CG-CD	5.50	1.65	1.52
5	B	814	PHE	CE2-CZ	5.50	1.55	1.38
5	B	54	PHE	CE2-CZ	-5.50	1.22	1.38
5	B	126	SER	CA-C	-5.50	1.46	1.52
5	B	383	ASN	CB-CG	5.50	1.65	1.52
5	B	429	PHE	CE2-CZ	5.50	1.55	1.38
6	C	67	LEU	CA-CB	5.50	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	E	20	LYS	CG-CD	5.50	1.69	1.52
7	E	29	PHE	CG-CD1	5.50	1.50	1.38
4	A	421	ALA	N-CA	-5.50	1.38	1.45
4	A	1032	LEU	CA-C	-5.50	1.45	1.52
4	A	1067	LEU	N-CA	-5.50	1.38	1.46
5	B	743	ILE	CA-C	5.50	1.59	1.52
9	H	27	GLU	CA-CB	5.50	1.61	1.53
2	T	24	DT	P-OP1	-5.50	1.37	1.48
4	A	1196	GLU	C-O	5.50	1.30	1.23
4	A	495	GLU	CA-C	5.50	1.60	1.52
4	A	1147	THR	C-O	-5.50	1.17	1.24
4	A	1393	ASN	CA-C	5.50	1.60	1.52
5	B	1052	VAL	CA-C	-5.50	1.46	1.52
7	E	117	THR	CB-OG1	5.50	1.52	1.43
8	F	86	THR	CA-C	-5.50	1.45	1.52
4	A	678	GLU	CA-C	-5.50	1.45	1.52
5	B	661	LEU	CA-C	-5.50	1.45	1.52
4	A	799	PHE	N-CA	-5.49	1.39	1.46
5	B	640	VAL	C-O	5.49	1.30	1.24
6	C	66	ARG	CA-C	-5.49	1.45	1.52
4	A	821	ARG	N-CA	5.49	1.52	1.46
6	C	42	PRO	CB-CG	-5.49	1.22	1.49
4	A	31	SER	N-CA	-5.49	1.38	1.45
4	A	866	PHE	CD1-CE1	5.49	1.55	1.38
6	C	222	LYS	CE-NZ	5.49	1.65	1.49
5	B	167	ILE	CA-C	5.49	1.59	1.52
5	B	1047	PHE	CA-CB	-5.49	1.46	1.52
4	A	1110	ASN	C-N	5.49	1.40	1.33
5	B	197	PHE	CB-CG	-5.49	1.38	1.50
5	B	908	GLU	CA-CB	5.49	1.60	1.53
5	B	908	GLU	CB-CG	5.48	1.69	1.52
5	B	996	ARG	CZ-NH1	5.48	1.40	1.32
7	E	77	SER	N-CA	5.48	1.53	1.46
4	A	524	VAL	CB-CG2	5.48	1.70	1.52
4	A	1261	LYS	CB-CG	5.48	1.68	1.52
9	H	82	PRO	CB-CG	5.48	1.77	1.49
4	A	478	TYR	C-O	5.48	1.31	1.24
5	B	668	ASP	N-CA	5.48	1.56	1.46
5	B	934	LYS	C-O	5.48	1.30	1.23
6	C	76	ASP	CB-CG	5.48	1.65	1.52
8	F	133	VAL	CA-C	-5.48	1.46	1.52
9	H	131	ASN	N-CA	5.48	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	I	21	GLU	CA-CB	5.48	1.62	1.53
5	B	1195	HIS	CA-CB	5.48	1.63	1.53
7	E	116	ILE	CA-C	5.48	1.59	1.52
10	I	79	HIS	N-CA	5.48	1.53	1.46
4	A	97	ALA	CA-CB	-5.48	1.44	1.53
4	A	620	LYS	N-CA	-5.48	1.39	1.46
4	A	1033	GLN	CG-CD	-5.48	1.38	1.52
4	A	1040	GLN	CA-C	-5.48	1.46	1.52
4	A	233	TRP	CA-CB	-5.47	1.44	1.53
4	A	554	PRO	C-O	-5.47	1.16	1.24
4	A	584	ASN	CG-OD1	5.47	1.33	1.23
4	A	587	HIS	N-CA	-5.47	1.39	1.46
4	A	1199	ARG	CD-NE	5.47	1.53	1.46
5	B	852	ARG	N-CA	-5.47	1.39	1.45
5	B	963	PHE	CA-CB	-5.47	1.44	1.53
11	J	32	GLU	C-O	5.47	1.30	1.24
11	J	56	LEU	N-CA	-5.47	1.39	1.46
4	A	383	TYR	CE1-CZ	5.47	1.51	1.38
4	A	399	HIS	CB-CG	5.47	1.57	1.50
4	A	714	PHE	N-CA	-5.47	1.39	1.46
5	B	586	TRP	C-O	5.47	1.30	1.24
12	K	18	LYS	CD-CE	5.47	1.68	1.52
4	A	37	PHE	C-O	-5.47	1.16	1.24
5	B	309	GLN	CA-C	-5.47	1.45	1.52
5	B	896	ASP	CB-CG	5.47	1.65	1.52
5	B	953	LEU	CB-CG	-5.47	1.42	1.53
6	C	217	ASP	N-CA	-5.47	1.37	1.45
9	H	103	LYS	CA-C	5.47	1.59	1.52
4	A	3	GLY	C-N	5.47	1.41	1.33
5	B	976	ILE	N-CA	-5.47	1.39	1.46
4	A	840	ARG	CA-C	5.47	1.60	1.52
5	B	458	LYS	CA-CB	5.47	1.62	1.53
6	C	228	PHE	CA-CB	-5.47	1.43	1.53
10	I	30	ARG	N-CA	5.47	1.52	1.46
11	J	64	ASN	C-O	5.47	1.31	1.24
4	A	609	ASP	CA-C	-5.46	1.45	1.52
10	I	111	THR	CA-C	-5.46	1.46	1.52
4	A	551	TYR	CB-CG	5.46	1.63	1.51
4	A	947	PHE	CE2-CZ	-5.46	1.22	1.38
6	C	71	PRO	CA-C	-5.46	1.45	1.52
4	A	125	ALA	C-N	5.46	1.42	1.33
4	A	450	LEU	CG-CD1	5.46	1.70	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	944	THR	N-CA	5.46	1.53	1.46
5	B	1174	LYS	CD-CE	5.46	1.68	1.52
10	I	117	LYS	CG-CD	5.46	1.68	1.52
4	A	254	GLU	N-CA	-5.46	1.39	1.46
4	A	521	MET	C-O	-5.46	1.17	1.23
5	B	714	GLU	CB-CG	5.46	1.68	1.52
7	E	97	VAL	C-O	5.46	1.30	1.24
2	T	19	DT	P-OP2	5.46	1.59	1.48
4	A	1230	GLU	CA-CB	5.46	1.61	1.53
5	B	488	TYR	CD1-CE1	-5.46	1.22	1.38
5	B	552	MET	C-O	-5.46	1.19	1.24
10	I	40	SER	C-O	5.46	1.31	1.24
4	A	398	GLU	CB-CG	5.46	1.68	1.52
4	A	744	LYS	CE-NZ	5.46	1.65	1.49
5	B	889	THR	CA-CB	-5.46	1.44	1.53
4	A	247	ARG	N-CA	5.46	1.53	1.46
4	A	261	ASP	CB-CG	5.46	1.65	1.52
4	A	980	ASP	CG-OD2	5.46	1.35	1.25
5	B	277	LYS	CD-CE	5.46	1.68	1.52
5	B	1032	SER	CA-C	5.45	1.60	1.52
6	C	223	ALA	CA-CB	5.45	1.62	1.53
5	B	875	GLU	CG-CD	5.45	1.65	1.52
4	A	986	ILE	N-CA	-5.45	1.39	1.46
4	A	1187	GLN	C-O	5.45	1.34	1.23
5	B	1044	ALA	CA-CB	5.45	1.62	1.53
7	E	46	TYR	CD1-CE1	5.45	1.55	1.38
4	A	568	PRO	CB-CG	-5.45	1.22	1.49
4	A	818	MET	CA-C	-5.45	1.45	1.52
4	A	1162	VAL	C-N	-5.45	1.27	1.33
5	B	1068	GLY	C-O	5.45	1.30	1.24
4	A	124	GLN	CG-CD	5.45	1.65	1.52
5	B	212	LEU	N-CA	-5.45	1.39	1.46
7	E	75	MET	C-O	-5.45	1.16	1.23
4	A	332	LYS	CE-NZ	5.45	1.65	1.49
4	A	1130	GLN	CD-NE2	5.45	1.44	1.33
4	A	145	LYS	CA-CB	5.44	1.62	1.53
10	I	10	CYS	C-O	5.44	1.30	1.24
4	A	775	ILE	C-O	-5.44	1.18	1.24
4	A	109	HIS	CB-CG	5.44	1.57	1.50
4	A	804	TYR	CB-CG	-5.44	1.39	1.51
10	I	37	GLU	CG-CD	5.44	1.65	1.52
4	A	637	LYS	CA-C	-5.44	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	893	PHE	CA-CB	-5.44	1.44	1.53
4	A	1054	LEU	N-CA	5.44	1.53	1.46
5	B	168	GLY	N-CA	5.44	1.53	1.45
5	B	756	ILE	C-O	-5.44	1.17	1.24
5	B	908	GLU	CA-C	5.44	1.60	1.52
5	B	1073	TYR	N-CA	5.44	1.52	1.46
4	A	129	LYS	C-O	-5.44	1.17	1.24
5	B	902	GLY	C-N	-5.44	1.25	1.33
4	A	1422	ARG	C-O	5.43	1.31	1.24
9	H	115	TYR	N-CA	5.43	1.53	1.46
12	K	85	ASP	CG-OD2	5.43	1.35	1.25
9	H	52	GLN	C-O	5.43	1.30	1.24
12	K	6	ARG	CB-CG	-5.43	1.36	1.52
13	L	29	TYR	CA-C	-5.43	1.47	1.53
5	B	347	LYS	N-CA	5.43	1.53	1.46
5	B	802	PRO	C-N	-5.43	1.26	1.34
7	E	168	TYR	CD1-CE1	5.43	1.54	1.38
8	F	111	LEU	C-N	5.43	1.41	1.33
4	A	43	GLU	CG-CD	5.43	1.65	1.52
4	A	98	LYS	CA-C	5.43	1.60	1.52
4	A	1287	TYR	CE2-CZ	5.43	1.51	1.38
5	B	447	ALA	C-O	5.43	1.30	1.24
5	B	546	SER	N-CA	5.43	1.53	1.46
4	A	1133	LEU	CG-CD2	5.42	1.70	1.52
4	A	1279	ILE	N-CA	5.42	1.53	1.46
5	B	571	PRO	CA-C	-5.42	1.44	1.52
4	A	766	GLY	CA-C	5.42	1.59	1.51
4	A	836	TYR	CZ-OH	5.42	1.49	1.38
13	L	43	THR	CB-CG2	5.42	1.70	1.52
4	A	773	LYS	CE-NZ	5.42	1.65	1.49
4	A	1400	CYS	N-CA	5.42	1.53	1.46
5	B	891	ASP	CB-CG	5.42	1.65	1.52
5	B	1156	ASP	CA-C	-5.42	1.45	1.52
4	A	271	LYS	CB-CG	5.42	1.68	1.52
10	I	110	PHE	CA-C	-5.42	1.45	1.52
4	A	504	LEU	C-O	-5.42	1.16	1.23
4	A	1194	ARG	CA-C	5.42	1.60	1.53
5	B	841	MET	SD-CE	-5.42	1.66	1.79
5	B	712	PRO	CG-CD	5.42	1.69	1.50
8	F	130	ILE	CA-C	-5.42	1.47	1.52
9	H	80	ARG	CA-C	5.42	1.59	1.52
4	A	922	ASP	CA-C	-5.41	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	E	46	TYR	CZ-OH	5.41	1.49	1.38
12	K	79	GLU	CG-CD	5.41	1.65	1.52
4	A	1435	PRO	CA-CB	-5.41	1.46	1.53
5	B	808	ALA	CA-C	-5.41	1.45	1.52
7	E	26	ARG	CA-CB	-5.41	1.44	1.53
7	E	214	CYS	N-CA	-5.41	1.39	1.45
4	A	337	ARG	N-CA	-5.41	1.40	1.46
4	A	379	VAL	N-CA	-5.41	1.39	1.46
4	A	431	LYS	CB-CG	5.41	1.68	1.52
5	B	206	ASN	N-CA	5.41	1.54	1.46
5	B	418	LYS	C-O	-5.41	1.17	1.24
4	A	934	LYS	N-CA	5.41	1.53	1.46
4	A	1172	LEU	CB-CG	5.41	1.64	1.53
5	B	994	TYR	CA-C	5.41	1.59	1.52
4	A	950	GLY	C-O	5.41	1.30	1.24
9	H	15	VAL	CB-CG1	5.41	1.70	1.52
4	A	290	GLU	CA-CB	5.41	1.62	1.53
4	A	1153	TYR	CB-CG	5.41	1.63	1.51
5	B	206	ASN	C-O	5.41	1.32	1.24
5	B	239	GLU	CD-OE1	5.41	1.35	1.25
11	J	2	ILE	C-O	-5.41	1.17	1.24
4	A	95	PHE	CB-CG	-5.40	1.38	1.50
4	A	377	PRO	CA-CB	-5.40	1.46	1.53
4	A	857	ARG	N-CA	-5.40	1.39	1.45
4	A	1043	ASP	C-O	5.40	1.30	1.24
5	B	258	LEU	N-CA	-5.40	1.39	1.46
5	B	900	ALA	CA-C	5.40	1.59	1.52
4	A	594	GLY	N-CA	5.40	1.53	1.45
4	A	640	GLN	CA-C	-5.40	1.45	1.52
5	B	211	VAL	CB-CG2	-5.40	1.34	1.52
5	B	353	LYS	CD-CE	5.40	1.68	1.52
7	E	161	LYS	CG-CD	5.40	1.68	1.52
10	I	60	GLN	CD-NE2	5.40	1.44	1.33
4	A	1410	PHE	C-O	-5.40	1.17	1.24
5	B	756	ILE	CB-CG2	-5.40	1.34	1.52
4	A	71	GLN	N-CA	-5.39	1.39	1.46
4	A	12	ARG	C-O	-5.39	1.17	1.23
4	A	61	ILE	N-CA	5.39	1.53	1.46
4	A	106	VAL	CA-C	5.39	1.60	1.53
4	A	173	THR	CA-C	5.39	1.59	1.52
6	C	8	VAL	N-CA	-5.39	1.39	1.46
13	L	25	ALA	CA-CB	5.39	1.70	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	437	GLU	CA-CB	5.39	1.64	1.53
5	B	572	HIS	N-CA	-5.39	1.39	1.46
4	A	128	ILE	CA-C	5.39	1.59	1.52
5	B	1158	PHE	CA-C	-5.39	1.45	1.52
5	B	866	TYR	C-N	5.39	1.37	1.33
7	E	78	LEU	CB-CG	5.39	1.64	1.53
5	B	935	ARG	N-CA	5.39	1.52	1.46
9	H	86	ASP	C-N	5.39	1.40	1.33
4	A	366	VAL	CA-C	5.38	1.58	1.52
4	A	1154	TYR	CA-CB	-5.38	1.46	1.53
5	B	46	GLN	C-N	5.38	1.41	1.33
5	B	118	ARG	CA-CB	5.38	1.62	1.53
11	J	38	ARG	C-O	-5.38	1.17	1.24
4	A	495	GLU	CG-CD	5.38	1.65	1.52
4	A	980	ASP	N-CA	-5.38	1.39	1.46
7	E	190	LEU	CA-C	-5.38	1.45	1.52
10	I	54	GLU	CG-CD	5.38	1.65	1.52
4	A	508	PRO	CA-CB	-5.38	1.46	1.53
4	A	722	LEU	CA-CB	-5.38	1.46	1.54
7	E	58	MET	CA-C	-5.38	1.45	1.52
12	K	78	THR	C-O	-5.38	1.17	1.23
4	A	1296	GLY	N-CA	5.38	1.53	1.45
5	B	593	PRO	C-O	-5.38	1.17	1.24
7	E	57	MET	N-CA	5.38	1.53	1.46
7	E	98	ILE	CB-CG2	5.38	1.70	1.52
4	A	1424	VAL	CA-C	-5.38	1.46	1.52
6	C	168	ALA	C-O	5.38	1.31	1.24
4	A	1265	ASN	CA-CB	-5.38	1.46	1.53
4	A	428	TYR	CB-CG	-5.37	1.39	1.51
4	A	776	ALA	N-CA	5.37	1.53	1.46
4	A	792	TYR	C-O	5.37	1.31	1.24
5	B	878	GLN	C-O	5.37	1.30	1.24
4	A	1102	LYS	N-CA	5.37	1.52	1.46
4	A	1396	ALA	N-CA	5.37	1.52	1.46
5	B	121	ASN	C-N	-5.37	1.25	1.33
5	B	212	LEU	CA-CB	-5.37	1.46	1.53
5	B	999	MET	C-O	-5.37	1.16	1.23
7	E	21	GLU	N-CA	5.37	1.52	1.46
7	E	208	TYR	CB-CG	5.37	1.63	1.51
4	A	348	SER	CA-CB	-5.37	1.46	1.53
5	B	190	TYR	N-CA	-5.37	1.39	1.46
5	B	829	CYS	C-O	5.37	1.30	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	989	THR	CA-C	5.37	1.59	1.52
6	C	126	GLY	CA-C	-5.37	1.46	1.51
10	I	41	PRO	N-CA	-5.37	1.40	1.47
4	A	1036	ARG	CD-NE	5.37	1.53	1.46
4	A	1280	GLU	CG-CD	5.37	1.65	1.52
5	B	425	THR	C-O	-5.37	1.17	1.24
5	B	554	ILE	CA-CB	-5.37	1.48	1.54
6	C	102	GLN	CA-CB	5.37	1.62	1.53
6	C	150	GLY	N-CA	5.37	1.53	1.45
4	A	1036	ARG	CB-CG	5.36	1.68	1.52
5	B	50	SER	CA-C	-5.36	1.45	1.52
6	C	215	GLU	N-CA	5.36	1.53	1.46
9	H	129	TYR	N-CA	5.36	1.53	1.46
4	A	118	HIS	CA-CB	5.36	1.62	1.53
4	A	425	GLN	N-CA	-5.36	1.39	1.46
5	B	293	PRO	CB-CG	5.36	1.76	1.49
5	B	1146	PHE	CE1-CZ	-5.36	1.22	1.38
4	A	816	HIS	N-CA	-5.36	1.39	1.46
9	H	55	LEU	CA-CB	-5.36	1.44	1.53
4	A	656	TRP	CA-CB	-5.36	1.44	1.53
4	A	363	GLN	CD-OE1	5.36	1.33	1.23
4	A	740	LEU	CA-CB	-5.36	1.45	1.53
6	C	249	ASP	CG-OD2	5.36	1.35	1.25
12	K	74	ARG	CG-CD	5.36	1.68	1.52
4	A	912	LEU	C-N	-5.35	1.26	1.33
5	B	491	THR	N-CA	-5.35	1.39	1.46
5	B	1082	MET	CB-CG	5.35	1.68	1.52
8	F	125	LEU	CA-C	-5.35	1.46	1.52
10	I	115	LYS	CB-CG	5.35	1.68	1.52
1	R	9	G	P-OP1	-5.35	1.38	1.49
4	A	55	ASP	C-N	5.35	1.46	1.33
7	E	105	PHE	CE1-CZ	5.35	1.54	1.38
4	A	813	PHE	N-CA	-5.35	1.40	1.46
6	C	144	ILE	C-O	-5.35	1.17	1.24
10	I	89	GLN	CA-CB	-5.35	1.44	1.53
4	A	314	ALA	CA-C	5.35	1.59	1.52
4	A	561	PRO	N-CA	-5.35	1.40	1.47
12	K	31	VAL	CA-CB	-5.35	1.45	1.55
13	L	45	ALA	N-CA	5.35	1.53	1.46
6	C	81	GLU	CG-CD	5.35	1.65	1.52
5	B	1123	SER	CA-C	-5.34	1.45	1.52
7	E	32	GLN	CA-C	5.34	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	J	23	ASN	CG-ND2	5.34	1.44	1.33
5	B	796	LEU	CA-CB	-5.34	1.45	1.53
4	A	850	VAL	CB-CG2	5.34	1.70	1.52
5	B	620	ARG	CA-C	5.34	1.60	1.52
4	A	682	THR	CA-C	5.34	1.59	1.52
4	A	841	LEU	CA-CB	-5.34	1.45	1.53
4	A	1133	LEU	CA-C	-5.34	1.45	1.52
5	B	868	MET	CA-CB	5.34	1.62	1.53
13	L	51	CYS	C-O	5.34	1.29	1.23
4	A	6	TYR	CB-CG	5.34	1.63	1.51
10	I	97	MET	SD-CE	-5.34	1.66	1.79
4	A	987	VAL	CA-C	-5.34	1.46	1.52
5	B	109	THR	CA-C	5.34	1.59	1.52
5	B	498	THR	CB-CG2	5.34	1.70	1.52
10	I	37	GLU	CA-CB	5.34	1.62	1.53
4	A	879	GLU	N-CA	-5.33	1.39	1.46
4	A	497	THR	N-CA	-5.33	1.39	1.46
5	B	934	LYS	CB-CG	5.33	1.68	1.52
7	E	9	ILE	CA-CB	5.33	1.61	1.54
4	A	516	SER	CA-C	5.33	1.59	1.53
7	E	171	LYS	CA-CB	5.33	1.62	1.53
4	A	562	THR	N-CA	-5.33	1.39	1.45
4	A	954	TRP	CG-CD2	-5.33	1.34	1.43
5	B	431	TYR	C-O	-5.33	1.17	1.24
11	J	24	LEU	CB-CG	-5.33	1.42	1.53
4	A	1233	ASP	N-CA	-5.33	1.38	1.45
7	E	190	LEU	N-CA	-5.33	1.38	1.45
4	A	1035	TYR	C-O	5.33	1.29	1.23
5	B	711	GLU	N-CA	5.33	1.53	1.46
5	B	1027	ILE	C-O	-5.33	1.18	1.24
8	F	122	MET	N-CA	5.33	1.52	1.46
4	A	849	MET	CA-C	5.32	1.59	1.52
4	A	1255	GLU	CB-CG	5.32	1.68	1.52
5	B	566	LEU	N-CA	-5.32	1.39	1.46
4	A	824	LEU	CG-CD2	5.32	1.70	1.52
4	A	498	ARG	CG-CD	5.32	1.68	1.52
5	B	1222	ARG	CA-CB	5.32	1.62	1.53
11	J	57	ILE	CA-CB	-5.32	1.46	1.54
4	A	740	LEU	CG-CD2	5.32	1.70	1.52
4	A	849	MET	CG-SD	5.32	1.94	1.80
7	E	57	MET	CA-C	5.32	1.59	1.52
7	E	195	VAL	C-O	-5.32	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	47	ARG	C-O	5.31	1.30	1.24
4	A	1412	ALA	CA-C	5.31	1.59	1.52
7	E	152	LYS	N-CA	5.31	1.53	1.46
4	A	124	GLN	CA-C	5.31	1.59	1.52
4	A	1081	LEU	CA-C	5.31	1.64	1.52
5	B	241	ARG	NE-CZ	5.31	1.38	1.33
5	B	1131	GLY	N-CA	-5.31	1.40	1.45
8	F	124	GLU	C-O	5.31	1.31	1.24
4	A	596	THR	N-CA	5.31	1.53	1.46
4	A	1189	SER	CA-CB	5.31	1.60	1.53
9	H	50	ALA	CA-CB	5.31	1.62	1.53
4	A	306	ASN	N-CA	5.31	1.53	1.46
8	F	143	PHE	CE1-CZ	5.31	1.54	1.38
4	A	974	ASP	CA-CB	5.31	1.60	1.53
5	B	547	VAL	C-O	5.31	1.30	1.24
5	B	1006	ILE	N-CA	-5.31	1.39	1.46
6	C	11	ARG	CA-C	-5.31	1.48	1.52
6	C	19	ASP	CA-C	-5.31	1.46	1.52
6	C	176	ILE	CB-CG2	-5.31	1.35	1.52
12	K	51	LEU	CG-CD2	5.31	1.70	1.52
4	A	901	LEU	CB-CG	5.30	1.64	1.53
4	A	956	LEU	CG-CD2	5.30	1.70	1.52
4	A	996	ASN	CB-CG	-5.30	1.38	1.52
5	B	352	ALA	CA-CB	-5.30	1.44	1.53
7	E	20	LYS	CA-CB	5.30	1.62	1.53
8	F	155	LEU	N-CA	5.30	1.56	1.46
4	A	275	SER	C-O	5.30	1.30	1.24
6	C	83	SER	CA-C	5.30	1.59	1.52
13	L	46	VAL	N-CA	5.30	1.52	1.46
4	A	720	ARG	CA-CB	5.30	1.61	1.53
4	A	760	GLN	CG-CD	5.30	1.65	1.52
6	C	43	THR	CA-CB	-5.30	1.44	1.53
9	H	145	ARG	C-O	5.30	1.29	1.23
10	I	5	ARG	CD-NE	5.30	1.53	1.46
10	I	94	ASP	CA-CB	5.30	1.59	1.53
4	A	935	GLN	CB-CG	-5.30	1.36	1.52
5	B	855	PHE	C-O	-5.30	1.18	1.23
4	A	477	PRO	CA-CB	-5.30	1.46	1.53
10	I	79	HIS	C-N	-5.30	1.26	1.33
5	B	575	PRO	CA-C	5.29	1.60	1.52
5	B	227	LYS	CA-CB	5.29	1.61	1.53
5	B	1171	VAL	CB-CG1	5.29	1.70	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	E	61	GLN	C-O	5.29	1.30	1.23
4	A	1025	ARG	CD-NE	5.29	1.53	1.46
4	A	1079	MET	CA-C	5.29	1.60	1.53
6	C	179	GLU	CA-C	5.29	1.59	1.52
4	A	805	LEU	C-O	-5.29	1.17	1.24
4	A	1156	PRO	C-O	5.29	1.30	1.24
6	C	92	CYS	CA-CB	-5.29	1.46	1.54
7	E	140	LEU	CB-CG	5.29	1.64	1.53
4	A	176	LYS	C-O	5.29	1.30	1.24
4	A	1346	ALA	CA-C	5.29	1.59	1.52
5	B	818	PRO	C-O	-5.29	1.17	1.24
6	C	58	LEU	CG-CD2	5.29	1.70	1.52
7	E	197	LYS	CA-C	-5.29	1.46	1.52
9	H	145	ARG	CB-CG	5.29	1.68	1.52
4	A	331	GLY	C-O	5.28	1.31	1.24
4	A	545	GLN	CA-CB	-5.28	1.44	1.53
5	B	864	LYS	CB-CG	5.28	1.68	1.52
5	B	886	LYS	CD-CE	5.28	1.68	1.52
5	B	1071	VAL	CB-CG2	-5.28	1.35	1.52
9	H	26	ILE	CB-CG2	-5.28	1.35	1.52
4	A	268	ASP	CA-C	5.28	1.59	1.52
4	A	320	ARG	C-O	-5.28	1.17	1.24
4	A	356	ASP	N-CA	5.28	1.53	1.46
9	H	80	ARG	CD-NE	5.28	1.53	1.46
6	C	89	GLU	CG-CD	5.28	1.65	1.52
12	K	22	ASP	CA-CB	-5.28	1.45	1.53
4	A	49	LYS	CE-NZ	5.28	1.65	1.49
4	A	1258	HIS	CA-CB	5.28	1.61	1.53
4	A	376	TYR	CA-C	-5.27	1.46	1.52
5	B	274	PRO	CA-C	5.27	1.59	1.52
5	B	602	THR	CA-CB	5.27	1.62	1.53
5	B	953	LEU	N-CA	-5.27	1.39	1.45
6	C	20	PHE	C-O	-5.27	1.17	1.24
4	A	847	ASP	CA-CB	5.27	1.61	1.53
7	E	9	ILE	N-CA	-5.27	1.39	1.45
4	A	1066	VAL	N-CA	-5.27	1.39	1.46
5	B	223	VAL	N-CA	5.27	1.52	1.46
5	B	269	ILE	N-CA	5.27	1.52	1.46
5	B	278	GLN	CG-CD	5.27	1.65	1.52
9	H	51	ALA	CA-C	5.27	1.59	1.52
4	A	65	LEU	CA-C	5.27	1.62	1.52
4	A	56	PRO	CA-C	5.26	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1372	VAL	CB-CG1	-5.26	1.35	1.52
5	B	497	ARG	NE-CZ	5.26	1.38	1.33
7	E	94	LYS	CA-CB	5.26	1.62	1.53
9	H	2	SER	CA-CB	5.26	1.64	1.53
9	H	117	SER	C-O	5.26	1.30	1.24
4	A	954	TRP	C-O	-5.26	1.18	1.24
4	A	1392	SER	CA-C	5.26	1.59	1.52
5	B	172	ILE	CB-CG2	-5.26	1.35	1.52
4	A	350	ARG	CA-C	-5.26	1.45	1.52
5	B	195	CYS	C-N	-5.26	1.28	1.34
5	B	352	ALA	N-CA	-5.26	1.39	1.46
4	A	88	LYS	CB-CG	5.26	1.68	1.52
4	A	256	GLN	C-N	5.26	1.41	1.33
4	A	1066	VAL	CA-C	-5.26	1.45	1.52
7	E	56	LYS	CB-CG	5.26	1.68	1.52
4	A	890	ASP	CB-CG	5.25	1.65	1.52
4	A	956	LEU	CB-CG	-5.25	1.43	1.53
5	B	1164	GLY	C-O	5.25	1.29	1.23
4	A	929	LEU	CA-C	5.25	1.59	1.52
7	E	79	TRP	CB-CG	5.25	1.66	1.50
4	A	162	VAL	CB-CG2	5.25	1.69	1.52
6	C	240	VAL	N-CA	-5.25	1.39	1.46
10	I	2	THR	N-CA	5.25	1.56	1.46
4	A	941	LYS	N-CA	5.25	1.52	1.46
5	B	271	ALA	N-CA	-5.25	1.37	1.46
5	B	1023	VAL	CA-C	-5.25	1.45	1.52
7	E	2	ASP	N-CA	5.25	1.56	1.46
12	K	14	GLU	CA-C	5.25	1.59	1.53
4	A	95	PHE	N-CA	-5.25	1.38	1.45
5	B	223	VAL	C-O	5.25	1.30	1.24
6	C	158	VAL	C-O	-5.25	1.17	1.24
4	A	232	GLU	CA-CB	5.24	1.62	1.53
5	B	116	GLU	CG-CD	5.24	1.65	1.52
5	B	562	GLY	CA-C	-5.24	1.44	1.51
5	B	949	VAL	N-CA	-5.24	1.39	1.46
5	B	1219	ASP	C-N	5.24	1.41	1.33
12	K	43	GLY	C-O	5.24	1.30	1.23
4	A	1271	ILE	CA-CB	5.24	1.59	1.53
5	B	981	ALA	C-N	5.24	1.41	1.33
12	K	46	ILE	N-CA	-5.24	1.40	1.46
4	A	1315	GLU	CB-CG	5.24	1.68	1.52
4	A	1243	VAL	CB-CG2	5.24	1.69	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	443	LEU	CA-CB	-5.24	1.46	1.53
5	B	186	GLU	CA-CB	5.24	1.61	1.53
5	B	641	GLU	CB-CG	5.24	1.68	1.52
5	B	760	ASP	C-O	-5.24	1.18	1.24
5	B	1082	MET	CA-CB	5.24	1.62	1.53
6	C	255	VAL	C-O	5.24	1.29	1.24
4	A	1261	LYS	CE-NZ	5.23	1.65	1.49
7	E	175	LEU	N-CA	-5.23	1.37	1.45
4	A	843	LYS	C-O	5.23	1.31	1.24
4	A	486	GLU	CB-CG	5.23	1.68	1.52
5	B	834	ASN	N-CA	5.23	1.52	1.46
10	I	93	LYS	C-O	5.23	1.30	1.24
4	A	291	GLU	CB-CG	5.23	1.68	1.52
7	E	162	ARG	N-CA	5.23	1.52	1.46
4	A	279	LEU	CA-CB	-5.23	1.44	1.53
4	A	971	PHE	N-CA	5.23	1.51	1.46
5	B	1037	LEU	C-O	-5.23	1.17	1.24
4	A	806	ARG	CZ-NH1	5.23	1.40	1.32
9	H	106	GLU	CG-CD	5.23	1.65	1.52
12	K	91	CYS	CA-C	-5.23	1.45	1.52
4	A	1161	THR	N-CA	-5.22	1.39	1.45
5	B	362	PRO	CA-CB	-5.22	1.46	1.53
5	B	468	GLU	CB-CG	5.22	1.68	1.52
5	B	823	ALA	N-CA	5.22	1.52	1.46
6	C	123	ASN	N-CA	-5.22	1.40	1.46
4	A	593	GLU	N-CA	5.22	1.52	1.46
5	B	63	ILE	CA-CB	-5.22	1.47	1.54
5	B	538	ASN	N-CA	-5.22	1.39	1.46
4	A	590	ARG	C-O	-5.22	1.17	1.24
12	K	42	LEU	CA-CB	-5.22	1.45	1.53
4	A	203	SER	N-CA	-5.22	1.39	1.46
4	A	1002	GLY	CA-C	5.22	1.59	1.51
5	B	435	THR	CA-C	5.22	1.59	1.52
6	C	102	GLN	CD-NE2	5.22	1.44	1.33
4	A	315	LEU	C-O	5.21	1.30	1.24
4	A	337	ARG	NE-CZ	5.21	1.38	1.33
5	B	214	ALA	C-O	-5.21	1.17	1.24
5	B	285	ILE	CA-C	5.21	1.59	1.52
5	B	319	GLU	CD-OE2	5.21	1.35	1.25
7	E	85	GLU	CB-CG	5.21	1.68	1.52
4	A	153	PRO	N-CD	5.21	1.55	1.47
7	E	207	ARG	CB-CG	5.21	1.68	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	592	ASP	CA-C	5.21	1.59	1.52
4	A	782	ARG	C-O	5.21	1.30	1.23
4	A	1222	ASN	C-O	5.21	1.30	1.23
5	B	1011	ILE	CA-CB	-5.21	1.47	1.54
6	C	34	ARG	CA-C	5.21	1.59	1.52
4	A	112	LYS	CA-C	-5.21	1.46	1.52
5	B	126	SER	N-CA	-5.21	1.39	1.45
5	B	1027	ILE	CA-C	-5.21	1.46	1.52
6	C	35	ARG	CG-CD	5.21	1.68	1.52
4	A	57	ARG	CA-CB	5.21	1.62	1.53
4	A	871	ASP	CG-OD2	5.21	1.35	1.25
4	A	423	ASP	CA-C	-5.20	1.45	1.52
5	B	380	TYR	CA-CB	-5.20	1.44	1.53
5	B	1041	GLU	CG-CD	5.20	1.65	1.52
5	B	1155	SER	CA-C	5.20	1.59	1.52
5	B	772	ALA	N-CA	-5.20	1.38	1.45
4	A	262	LEU	CA-C	-5.20	1.45	1.52
4	A	591	PHE	N-CA	5.20	1.52	1.46
5	B	164	LYS	C-N	5.20	1.40	1.33
4	A	562	THR	C-O	-5.20	1.17	1.24
8	F	129	LYS	N-CA	5.20	1.54	1.46
5	B	842	ASN	N-CA	5.19	1.52	1.46
6	C	22	LEU	CA-C	-5.19	1.46	1.52
5	B	661	LEU	CB-CG	-5.19	1.43	1.53
6	C	97	VAL	CA-C	-5.19	1.46	1.52
5	B	910	VAL	CA-C	-5.19	1.47	1.52
9	H	107	VAL	CA-CB	-5.19	1.48	1.54
4	A	284	ALA	C-N	5.19	1.46	1.33
4	A	1266	THR	C-O	-5.19	1.17	1.24
4	A	215	SER	CA-C	5.19	1.60	1.53
4	A	652	VAL	CB-CG1	5.18	1.69	1.52
5	B	296	GLU	C-O	-5.18	1.17	1.24
7	E	53	PRO	CB-CG	5.18	1.75	1.49
8	F	155	LEU	CG-CD1	5.18	1.69	1.52
9	H	36	CYS	CA-C	5.18	1.59	1.52
4	A	358	ASN	C-O	-5.18	1.17	1.24
4	A	1106	ASN	N-CA	-5.18	1.39	1.46
7	E	102	GLU	N-CA	5.18	1.52	1.46
5	B	590	HIS	N-CA	5.18	1.52	1.46
5	B	1217	TYR	CG-CD2	5.18	1.50	1.39
11	J	18	TRP	CB-CG	-5.18	1.34	1.50
4	A	925	LEU	CG-CD1	5.18	1.69	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	697	GLU	CD-OE2	5.18	1.35	1.25
6	C	45	ALA	CA-C	-5.18	1.46	1.52
10	I	4	PHE	N-CA	-5.18	1.39	1.46
4	A	66	LYS	CE-NZ	5.17	1.64	1.49
4	A	121	LEU	N-CA	5.17	1.52	1.46
4	A	852	TYR	N-CA	5.17	1.52	1.46
4	A	1013	ASP	CG-OD2	5.17	1.35	1.25
4	A	1236	LEU	CA-C	-5.17	1.46	1.52
4	A	1262	LYS	CE-NZ	5.17	1.64	1.49
5	B	303	TYR	CD1-CE1	5.17	1.54	1.38
4	A	152	VAL	CB-CG1	5.17	1.69	1.52
6	C	247	GLY	C-O	5.17	1.30	1.23
5	B	225	VAL	CA-C	-5.17	1.46	1.52
5	B	805	THR	CB-CG2	-5.17	1.35	1.52
6	C	62	PHE	CB-CG	-5.17	1.38	1.50
6	C	62	PHE	CA-CB	-5.17	1.45	1.53
10	I	15	TYR	C-O	-5.17	1.17	1.24
4	A	487	MET	C-O	-5.17	1.17	1.23
4	A	660	ASN	CA-CB	-5.17	1.45	1.53
4	A	851	HIS	N-CA	5.17	1.52	1.45
4	A	1234	GLU	CA-CB	5.17	1.61	1.53
5	B	57	TYR	C-O	-5.17	1.17	1.24
5	B	608	ASP	CA-CB	5.17	1.62	1.53
7	E	199	ILE	CB-CG2	5.17	1.69	1.52
8	F	85	MET	CA-C	-5.17	1.46	1.52
8	F	118	LEU	CG-CD1	5.17	1.69	1.52
4	A	121	LEU	C-O	5.17	1.30	1.24
4	A	393	ARG	CA-C	-5.17	1.46	1.52
5	B	39	ARG	CA-C	-5.17	1.45	1.52
6	C	37	MET	C-O	-5.17	1.17	1.24
7	E	84	ASP	N-CA	5.17	1.52	1.46
9	H	143	LEU	N-CA	-5.17	1.40	1.46
11	J	55	ASP	CG-OD2	5.17	1.35	1.25
4	A	214	ILE	CA-C	5.17	1.59	1.52
4	A	531	ILE	C-N	5.17	1.41	1.33
4	A	958	VAL	CB-CG2	5.17	1.69	1.52
5	B	557	PHE	CB-CG	-5.16	1.38	1.50
5	B	617	ARG	CA-C	-5.16	1.46	1.52
4	A	444	PHE	CA-C	-5.16	1.46	1.53
4	A	485	ASP	C-O	-5.16	1.17	1.23
5	B	350	GLN	CA-C	-5.16	1.45	1.52
5	B	554	ILE	CA-C	5.16	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	E	90	VAL	C-O	5.16	1.30	1.24
8	F	104	ASN	CG-ND2	5.16	1.44	1.33
5	B	114	PRO	N-CD	-5.16	1.40	1.47
5	B	1037	LEU	CA-CB	-5.16	1.44	1.53
9	H	97	MET	CG-SD	5.16	1.93	1.80
9	H	102	TYR	N-CA	5.16	1.52	1.46
5	B	847	ASP	CG-OD2	5.16	1.35	1.25
5	B	272	THR	CB-CG2	5.15	1.69	1.52
5	B	856	PHE	CB-CG	-5.15	1.38	1.50
5	B	354	ASP	N-CA	5.15	1.52	1.45
5	B	1146	PHE	CA-CB	-5.15	1.45	1.53
9	H	45	GLU	CD-OE1	5.15	1.35	1.25
11	J	6	ARG	CD-NE	-5.15	1.39	1.46
11	J	43	ARG	C-O	5.15	1.29	1.23
9	H	111	LEU	CG-CD1	5.15	1.69	1.52
4	A	1060	PRO	CA-C	-5.15	1.46	1.52
4	A	475	THR	CA-C	5.15	1.59	1.52
5	B	103	ASN	CB-CG	5.15	1.65	1.52
5	B	437	GLU	N-CA	5.15	1.56	1.46
5	B	1074	ASN	N-CA	-5.15	1.39	1.46
12	K	103	THR	CA-CB	5.15	1.61	1.53
4	A	784	LEU	CG-CD2	-5.14	1.35	1.52
4	A	1230	GLU	CB-CG	5.14	1.67	1.52
7	E	56	LYS	C-O	5.14	1.30	1.24
4	A	398	GLU	N-CA	5.14	1.52	1.46
4	A	544	ASP	C-O	-5.14	1.17	1.24
4	A	1112	LYS	CG-CD	5.14	1.67	1.52
5	B	786	ASN	CG-ND2	5.14	1.44	1.33
7	E	149	LEU	CG-CD2	5.14	1.69	1.52
4	A	997	LEU	CA-CB	-5.14	1.45	1.53
4	A	1344	GLY	C-O	5.14	1.29	1.23
5	B	273	LEU	CA-C	5.14	1.59	1.52
5	B	730	ARG	CD-NE	5.14	1.53	1.46
5	B	1132	GLU	CB-CG	5.14	1.67	1.52
11	J	42	LYS	C-O	-5.14	1.17	1.24
4	A	38	PRO	CA-CB	-5.14	1.46	1.53
4	A	631	HIS	CA-CB	5.14	1.62	1.53
4	A	1203	ASN	CA-CB	5.14	1.62	1.53
5	B	391	ASP	CA-C	5.14	1.60	1.53
8	F	88	TYR	C-O	-5.14	1.17	1.24
10	I	75	CYS	CA-C	5.14	1.59	1.52
4	A	476	SER	N-CA	5.13	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	122	LEU	N-CA	-5.13	1.39	1.45
5	B	470	LYS	CB-CG	5.13	1.67	1.52
5	B	666	TYR	C-O	-5.13	1.17	1.24
4	A	565	ILE	CA-C	-5.13	1.46	1.52
6	C	228	PHE	CG-CD2	-5.13	1.28	1.38
4	A	416	ARG	CG-CD	5.13	1.67	1.52
6	C	91	HIS	C-O	-5.13	1.17	1.23
6	C	168	ALA	CA-CB	5.13	1.60	1.53
9	H	29	ALA	CA-C	5.13	1.58	1.52
5	B	952	VAL	CB-CG1	5.13	1.69	1.52
4	A	684	ALA	C-O	5.13	1.30	1.24
5	B	1105	ALA	CA-C	-5.13	1.46	1.52
6	C	263	THR	CB-CG2	5.13	1.69	1.52
4	A	169	ASN	CA-CB	5.12	1.62	1.53
4	A	738	LYS	CA-CB	-5.12	1.45	1.53
5	B	170	LEU	C-O	5.12	1.30	1.24
5	B	407	ASP	CG-OD1	5.12	1.35	1.25
4	A	420	ARG	C-O	-5.12	1.16	1.23
7	E	198	ILE	C-O	-5.12	1.18	1.23
10	I	50	THR	C-O	-5.12	1.17	1.24
4	A	6	TYR	CD2-CE2	5.12	1.54	1.38
4	A	39	GLU	CG-CD	5.12	1.64	1.52
4	A	1064	VAL	CA-C	5.12	1.59	1.52
5	B	370	PHE	CA-C	5.12	1.59	1.52
9	H	78	SER	C-N	-5.12	1.26	1.33
13	L	51	CYS	N-CA	5.12	1.53	1.46
4	A	397	ASN	C-O	-5.12	1.18	1.23
5	B	38	PHE	N-CA	5.12	1.52	1.46
5	B	1004	GLU	CG-CD	5.12	1.64	1.52
5	B	1079	LYS	CE-NZ	5.12	1.64	1.49
9	H	84	ALA	C-O	5.12	1.30	1.24
4	A	594	GLY	CA-C	5.12	1.59	1.51
5	B	529	GLU	CG-CD	5.12	1.64	1.52
7	E	32	GLN	N-CA	-5.12	1.39	1.46
5	B	752	ALA	CA-CB	-5.12	1.44	1.53
6	C	11	ARG	C-O	-5.12	1.17	1.23
4	A	1442	ASP	CA-CB	-5.11	1.46	1.53
6	C	136	ASP	N-CA	-5.11	1.39	1.46
5	B	994	TYR	N-CA	-5.11	1.39	1.46
5	B	187	SER	C-O	5.11	1.30	1.24
7	E	126	SER	C-N	5.11	1.39	1.33
7	E	187	TYR	N-CA	-5.11	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	869	SER	CA-CB	5.11	1.62	1.53
6	C	216	GLY	CA-C	-5.11	1.46	1.52
4	A	387	ARG	CB-CG	5.11	1.67	1.52
4	A	972	HIS	C-O	5.11	1.30	1.24
4	A	1403	GLU	CA-CB	5.11	1.61	1.53
5	B	248	SER	CA-CB	5.11	1.62	1.53
5	B	349	ILE	N-CA	-5.11	1.40	1.46
6	C	44	LEU	C-O	-5.11	1.17	1.24
13	L	38	LEU	CA-C	-5.11	1.46	1.53
5	B	997	GLU	CA-C	-5.10	1.46	1.52
6	C	151	GLN	CA-CB	-5.10	1.44	1.53
6	C	178	PHE	CA-CB	-5.10	1.45	1.53
8	F	135	ARG	N-CA	-5.10	1.38	1.46
4	A	926	GLN	CA-CB	-5.10	1.44	1.53
4	A	1167	GLU	CA-CB	5.10	1.61	1.53
4	A	1211	GLN	CA-C	5.10	1.59	1.52
4	A	1284	MET	N-CA	5.10	1.52	1.46
6	C	22	LEU	N-CA	-5.10	1.40	1.46
7	E	95	THR	C-O	5.10	1.30	1.24
4	A	1371	LEU	C-O	5.10	1.30	1.24
5	B	423	LYS	CB-CG	-5.10	1.37	1.52
7	E	4	GLU	CA-C	5.10	1.59	1.52
7	E	104	ASN	CB-CG	5.10	1.64	1.52
4	A	1445	ILE	N-CA	5.10	1.55	1.46
4	A	307	ASP	CB-CG	5.09	1.64	1.52
4	A	420	ARG	CG-CD	-5.09	1.37	1.52
4	A	980	ASP	CA-C	-5.09	1.46	1.52
4	A	1063	MET	CG-SD	-5.09	1.68	1.80
6	C	108	GLU	CA-C	-5.09	1.45	1.52
4	A	525	GLN	CD-OE1	5.09	1.33	1.23
5	B	1116	ARG	CA-CB	-5.09	1.45	1.53
4	A	129	LYS	N-CA	5.09	1.52	1.46
4	A	1411	GLU	CG-CD	5.09	1.64	1.52
5	B	469	GLN	CD-OE1	5.09	1.33	1.23
5	B	785	TYR	CD1-CE1	-5.09	1.23	1.38
4	A	264	PHE	C-O	-5.09	1.17	1.24
4	A	455	MET	C-O	-5.09	1.17	1.23
5	B	644	GLU	CA-CB	5.09	1.61	1.53
6	C	146	LYS	CA-CB	-5.09	1.43	1.54
7	E	159	ASP	CG-OD2	5.09	1.35	1.25
8	F	131	PRO	CA-C	-5.09	1.45	1.52
12	K	103	THR	CB-CG2	5.09	1.69	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	646	PHE	C-O	5.08	1.30	1.24
4	A	992	ASP	C-O	5.08	1.31	1.24
4	A	1389	PHE	N-CA	-5.08	1.39	1.46
6	C	150	GLY	C-N	-5.08	1.26	1.33
6	C	34	ARG	CG-CD	5.08	1.67	1.52
6	C	152	GLU	CD-OE2	5.08	1.35	1.25
12	K	79	GLU	CA-CB	5.08	1.62	1.53
4	A	424	ILE	CA-C	-5.08	1.46	1.52
4	A	1056	SER	CA-CB	5.08	1.62	1.53
4	A	1296	GLY	CA-C	5.08	1.59	1.51
5	B	1221	SER	C-O	5.08	1.30	1.24
7	E	105	PHE	C-O	5.08	1.30	1.23
2	T	21	DC	C3'-C2'	-5.08	1.42	1.52
4	A	23	SER	CA-C	-5.08	1.46	1.52
4	A	218	ASP	CA-C	5.08	1.58	1.53
4	A	893	PHE	CE1-CZ	-5.08	1.23	1.38
5	B	1022	THR	CB-CG2	5.08	1.69	1.52
5	B	278	GLN	CA-CB	5.08	1.62	1.53
12	K	74	ARG	CZ-NH1	5.08	1.39	1.32
4	A	448	PRO	CG-CD	-5.07	1.38	1.51
4	A	801	GLU	CD-OE1	5.07	1.34	1.25
6	C	185	LYS	CE-NZ	5.07	1.64	1.49
7	E	48	ASP	N-CA	5.07	1.52	1.45
8	F	133	VAL	N-CA	-5.07	1.40	1.46
5	B	1130	PHE	CA-C	-5.07	1.47	1.53
5	B	68	THR	CA-C	5.07	1.59	1.52
5	B	225	VAL	C-O	-5.07	1.18	1.24
4	A	45	GLN	CA-CB	5.07	1.60	1.54
5	B	787	VAL	C-N	-5.07	1.25	1.33
9	H	11	GLN	CA-C	-5.07	1.46	1.52
4	A	1058	VAL	C-O	5.06	1.30	1.24
8	F	91	ALA	C-O	-5.06	1.17	1.24
12	K	91	CYS	CA-CB	-5.06	1.45	1.53
5	B	884	ARG	N-CA	5.06	1.52	1.46
4	A	1168	GLU	CG-CD	5.06	1.64	1.52
5	B	1084	GLN	CA-CB	-5.06	1.45	1.53
6	C	152	GLU	CD-OE1	5.06	1.34	1.25
7	E	50	MET	CA-CB	5.06	1.62	1.53
12	K	28	PRO	CA-CB	-5.06	1.46	1.53
5	B	278	GLN	CD-NE2	5.06	1.43	1.33
5	B	780	VAL	CB-CG1	-5.06	1.35	1.52
5	B	1097	HIS	CA-CB	5.06	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	C	41	ILE	CB-CG2	-5.06	1.35	1.52
5	B	1122	ARG	N-CA	5.06	1.52	1.46
7	E	203	GLU	N-CA	5.06	1.52	1.46
4	A	143	LYS	CE-NZ	5.05	1.64	1.49
5	B	393	LYS	CB-CG	5.05	1.67	1.52
5	B	575	PRO	CG-CD	5.05	1.68	1.50
5	B	794	ASN	CA-C	-5.05	1.46	1.52
4	A	7	SER	N-CA	-5.05	1.38	1.46
4	A	1233	ASP	CB-CG	5.05	1.64	1.52
7	E	172	GLU	CA-C	5.05	1.60	1.52
9	H	78	SER	CA-CB	5.05	1.62	1.53
4	A	70	CYS	CA-C	-5.05	1.46	1.52
7	E	6	GLU	CA-C	-5.05	1.45	1.52
4	A	605	MET	CB-CG	5.05	1.67	1.52
6	C	180	TYR	CD2-CE2	5.05	1.53	1.38
4	A	1167	GLU	CG-CD	5.05	1.64	1.52
5	B	1030	LEU	C-O	-5.05	1.17	1.24
6	C	157	CYS	CA-CB	-5.05	1.45	1.53
6	C	189	THR	C-O	-5.05	1.17	1.23
5	B	1150	ARG	CA-CB	-5.05	1.45	1.53
7	E	167	ARG	CA-C	5.05	1.59	1.53
10	I	119	THR	C-N	5.05	1.40	1.33
12	K	44	ASN	CA-C	5.05	1.59	1.52
4	A	779	PHE	CD2-CE2	-5.04	1.23	1.38
7	E	28	TYR	CA-CB	5.04	1.61	1.53
4	A	822	GLU	CA-C	-5.04	1.46	1.52
4	A	974	ASP	N-CA	5.04	1.52	1.46
4	A	1278	ASN	CA-C	5.04	1.60	1.52
4	A	1419	ASP	CA-CB	5.04	1.60	1.53
5	B	855	PHE	CD1-CE1	5.04	1.53	1.38
5	B	995	ARG	N-CA	-5.04	1.39	1.45
5	B	1054	GLY	C-O	5.04	1.30	1.23
4	A	424	ILE	N-CA	-5.04	1.40	1.46
4	A	937	VAL	CB-CG2	5.04	1.69	1.52
4	A	1301	GLU	CG-CD	5.04	1.64	1.52
9	H	128	ASN	CA-CB	5.04	1.61	1.53
12	K	26	LYS	CD-CE	5.04	1.67	1.52
12	K	24	ASP	CB-CG	5.04	1.64	1.52
4	A	426	LEU	CA-C	5.04	1.59	1.52
5	B	1011	ILE	N-CA	-5.04	1.39	1.46
4	A	1011	GLN	N-CA	-5.04	1.40	1.46
4	A	709	THR	CA-CB	5.04	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	167	ILE	N-CA	5.04	1.52	1.46
6	C	116	LYS	CB-CG	5.04	1.67	1.52
11	J	61	LEU	C-O	-5.04	1.18	1.24
4	A	74	MET	N-CA	-5.03	1.39	1.46
5	B	313	MET	N-CA	-5.03	1.40	1.46
5	B	778	MET	CG-SD	5.03	1.93	1.80
6	C	134	ILE	CB-CG2	5.03	1.69	1.52
4	A	985	ASP	CB-CG	5.03	1.64	1.52
5	B	370	PHE	C-O	5.03	1.30	1.24
5	B	429	PHE	N-CA	5.03	1.52	1.46
5	B	470	LYS	C-N	5.03	1.40	1.33
5	B	511	PRO	CA-C	-5.03	1.45	1.52
4	A	234	MET	CB-CG	5.03	1.67	1.52
4	A	854	ASN	N-CA	5.03	1.52	1.46
5	B	51	PHE	CB-CG	-5.03	1.39	1.50
5	B	458	LYS	CB-CG	5.03	1.67	1.52
5	B	1121	GLY	C-O	-5.03	1.17	1.23
7	E	207	ARG	NE-CZ	5.03	1.38	1.33
10	I	51	ASN	C-O	5.03	1.30	1.24
13	L	46	VAL	CB-CG2	-5.03	1.35	1.52
4	A	372	LYS	CD-CE	5.03	1.67	1.52
4	A	1205	LYS	CG-CD	5.03	1.67	1.52
5	B	188	ASP	CA-C	5.03	1.59	1.52
5	B	1097	HIS	CA-C	-5.03	1.46	1.52
7	E	134	THR	C-O	-5.03	1.18	1.24
7	E	188	LEU	C-O	5.03	1.30	1.24
9	H	42	ILE	CA-CB	5.03	1.61	1.54
10	I	41	PRO	C-O	-5.03	1.17	1.24
4	A	784	LEU	N-CA	5.02	1.53	1.46
5	B	258	LEU	CG-CD2	5.02	1.69	1.52
6	C	156	THR	CA-C	-5.02	1.47	1.53
5	B	759	PRO	N-CA	5.02	1.53	1.47
5	B	994	TYR	CE2-CZ	-5.02	1.26	1.38
6	C	194	GLU	CG-CD	5.02	1.64	1.52
8	F	92	ARG	CZ-NH1	5.02	1.39	1.32
10	I	85	PHE	C-O	-5.02	1.18	1.24
5	B	780	VAL	N-CA	-5.02	1.40	1.46
8	F	152	ILE	C-O	5.02	1.30	1.24
13	L	61	THR	N-CA	5.02	1.52	1.45
5	B	25	ILE	C-O	-5.02	1.16	1.23
5	B	461	LEU	CA-C	5.02	1.59	1.52
5	B	1059	LEU	CA-CB	-5.02	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	C	108	GLU	CG-CD	5.02	1.64	1.52
6	C	184	ASN	C-O	-5.02	1.17	1.24
13	L	60	ARG	CA-C	5.02	1.59	1.52
11	J	34	THR	N-CA	-5.02	1.39	1.46
12	K	23	PRO	CB-CG	5.02	1.74	1.49
4	A	879	GLU	CG-CD	5.01	1.64	1.52
5	B	43	LEU	C-O	-5.01	1.17	1.23
5	B	428	ILE	N-CA	-5.01	1.40	1.46
6	C	111	THR	CA-C	-5.01	1.46	1.52
12	K	58	PHE	CA-CB	5.01	1.62	1.53
4	A	590	ARG	N-CA	-5.01	1.39	1.46
7	E	176	PRO	CA-C	-5.01	1.45	1.52
9	H	35	GLN	CB-CG	5.01	1.67	1.52
4	A	1153	TYR	CE1-CZ	5.01	1.50	1.38
5	B	568	ASP	CG-OD1	5.01	1.34	1.25
8	F	79	ARG	C-O	5.01	1.29	1.23
4	A	121	LEU	CG-CD2	5.01	1.69	1.52
5	B	1092	TYR	N-CA	-5.01	1.40	1.45
4	A	931	GLU	N-CA	5.01	1.52	1.46
4	A	1416	ALA	CA-CB	-5.01	1.47	1.53
12	K	10	PHE	C-O	-5.01	1.17	1.24
4	A	570	PRO	CA-CB	-5.00	1.46	1.53
5	B	224	GLN	CD-OE1	5.00	1.33	1.23
5	B	1203	LEU	CA-C	5.00	1.59	1.52
4	A	1148	ILE	CA-CB	5.00	1.61	1.54
5	B	193	LYS	CG-CD	5.00	1.67	1.52
5	B	353	LYS	CA-C	5.00	1.59	1.52
7	E	168	TYR	CG-CD2	-5.00	1.28	1.39
4	A	581	ALA	C-O	5.00	1.30	1.24
5	B	36	ALA	CA-C	-5.00	1.45	1.52
6	C	264	GLN	CB-CG	5.00	1.67	1.52

All (8162) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	821	ARG	N-CA-C	-50.67	56.86	114.62
5	B	62	ILE	N-CA-C	-27.51	86.57	113.53
7	E	184	VAL	N-CA-C	-26.19	89.04	111.56
4	A	257	ARG	N-CA-C	25.96	148.54	112.45
4	A	325	ILE	CA-C-O	-25.56	88.83	120.78
4	A	325	ILE	O-C-N	24.29	152.94	122.57
4	A	259	GLU	N-CA-C	23.83	145.73	110.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	T	13	DA	OP1-P-O3'	-23.38	37.85	108.00
4	A	320	ARG	N-CA-C	22.68	159.92	109.81
9	H	100	THR	N-CA-C	-22.46	74.24	109.95
5	B	758	PHE	CB-CA-C	-22.42	89.63	110.71
12	K	5	ASP	CA-C-N	-22.08	91.51	120.65
12	K	5	ASP	C-N-CA	-22.08	91.51	120.65
5	B	429	PHE	N-CA-C	-22.07	85.45	112.38
10	I	75	CYS	N-CA-C	-21.90	81.71	110.40
4	A	291	GLU	N-CA-C	-21.76	87.64	111.14
6	C	205	LYS	N-CA-C	-21.38	88.19	111.07
5	B	477	ALA	CA-C-N	-21.37	79.52	121.41
5	B	477	ALA	C-N-CA	-21.37	79.52	121.41
4	A	330	LYS	N-CA-C	21.08	142.36	108.63
5	B	941	LEU	CB-CG-CD2	21.07	173.92	110.70
4	A	322	VAL	CA-C-O	-20.97	94.57	120.78
4	A	324	SER	CA-C-O	-20.85	90.70	120.51
5	B	472	ALA	O-C-N	20.62	150.01	122.59
4	A	21	LEU	N-CA-C	20.26	137.95	109.18
1	R	3	C	O3'-P-O5'	-20.25	73.63	104.00
4	A	1207	LEU	N-CA-C	20.24	141.51	108.32
5	B	635	ARG	N-CA-C	20.07	154.16	109.81
5	B	69	LEU	N-CA-C	19.93	141.73	109.24
4	A	820	GLY	N-CA-C	-19.78	66.30	113.18
5	B	604	ARG	N-CA-C	-19.75	89.20	113.50
1	R	4	G	OP2-P-O3'	-19.73	48.80	108.00
4	A	1299	VAL	N-CA-C	19.65	132.51	108.53
5	B	636	PRO	CB-CA-C	19.52	143.78	111.56
4	A	321	PRO	CA-C-N	-19.50	86.87	121.97
4	A	321	PRO	C-N-CA	-19.50	86.87	121.97
5	B	758	PHE	CA-C-O	-19.49	107.02	120.47
5	B	427	ASP	N-CA-C	-19.35	88.57	113.72
4	A	1403	GLU	CA-C-N	-19.30	95.71	123.11
4	A	1403	GLU	C-N-CA	-19.30	95.71	123.11
2	T	23	DC	C4'-C3'-O3'	19.25	138.88	110.00
6	C	260	LEU	N-CA-C	-19.15	89.49	113.23
4	A	323	LYS	CA-C-O	-19.02	93.31	120.51
4	A	87	ALA	O-C-N	18.99	137.80	120.71
10	I	31	THR	CA-C-N	-18.96	98.88	121.64
10	I	31	THR	C-N-CA	-18.96	98.88	121.64
5	B	276	ILE	N-CA-C	18.85	135.63	108.48
5	B	330	ALA	N-CA-C	-18.83	88.43	111.40
5	B	431	TYR	N-CA-C	-18.81	70.73	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	99	LYS	N-CA-C	-18.79	85.77	109.64
4	A	1094	VAL	N-CA-C	18.73	135.15	108.36
7	E	53	PRO	CA-C-N	-18.72	92.30	122.26
7	E	53	PRO	C-N-CA	-18.72	92.30	122.26
8	F	125	LEU	CA-C-N	-18.64	85.95	121.54
8	F	125	LEU	C-N-CA	-18.64	85.95	121.54
4	A	818	MET	CG-SD-CE	-18.62	59.93	100.90
5	B	1196	ILE	N-CA-C	18.47	129.88	109.01
6	C	167	HIS	CA-C-N	-18.40	93.60	122.49
6	C	167	HIS	C-N-CA	-18.40	93.60	122.49
5	B	167	ILE	CB-CA-C	-18.39	81.22	110.28
4	A	531	ILE	O-C-N	18.36	145.53	122.57
9	H	58	THR	CA-C-N	-18.34	105.00	122.97
9	H	58	THR	C-N-CA	-18.34	105.00	122.97
5	B	264	SER	CB-CA-C	18.21	138.39	109.61
4	A	337	ARG	NE-CZ-NH2	-18.18	102.83	119.20
4	A	168	GLY	N-CA-C	18.02	134.49	114.67
4	A	1323	ASP	CA-C-N	18.01	138.60	119.87
4	A	1323	ASP	C-N-CA	18.01	138.60	119.87
5	B	430	ARG	N-CA-C	17.99	135.84	113.17
12	K	75	ILE	N-CA-C	17.90	133.17	108.11
6	C	70	ILE	N-CA-CB	-17.70	86.43	111.21
2	T	18	DA	O3'-P-O5'	-17.65	77.53	104.00
4	A	735	VAL	N-CA-C	17.56	127.04	110.53
4	A	126	LEU	N-CA-C	17.53	134.39	113.18
1	R	4	G	O3'-P-O5'	17.52	130.28	104.00
6	C	41	ILE	CA-CB-CG1	17.45	140.07	110.40
10	I	65	ASP	CA-C-O	17.45	134.77	119.59
4	A	78	PRO	N-CA-C	-17.42	84.49	110.80
10	I	73	ARG	N-CA-C	17.42	123.06	108.78
7	E	188	LEU	O-C-N	17.42	140.13	122.19
4	A	1111	MET	N-CA-C	17.38	135.43	110.23
4	A	946	VAL	N-CA-C	17.36	127.08	110.42
6	C	201	TRP	CA-C-N	-17.34	98.16	119.84
6	C	201	TRP	C-N-CA	-17.34	98.16	119.84
4	A	274	ILE	CB-CA-C	17.34	135.47	112.24
4	A	1434	ALA	CA-C-N	-17.32	98.19	119.84
4	A	1434	ALA	C-N-CA	-17.32	98.19	119.84
5	B	604	ARG	CA-C-N	-17.30	93.99	122.54
5	B	604	ARG	C-N-CA	-17.30	93.99	122.54
4	A	320	ARG	CB-CA-C	-17.30	76.08	110.17
2	T	21	DC	C4'-C3'-O3'	17.23	135.85	110.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1269	GLU	N-CA-C	17.20	135.69	112.30
5	B	865	LYS	N-CA-CB	17.14	127.53	111.59
4	A	1023	ARG	CA-C-N	-17.12	97.34	120.28
4	A	1023	ARG	C-N-CA	-17.12	97.34	120.28
2	T	20	DC	OP1-P-O3'	-17.11	56.68	108.00
5	B	517	THR	N-CA-C	17.07	133.85	113.20
7	E	107	THR	N-CA-C	17.05	138.05	109.06
4	A	236	LEU	N-CA-C	16.99	135.00	108.67
5	B	466	TRP	CB-CG-CD2	-16.97	103.04	126.80
5	B	467	GLY	N-CA-C	16.83	153.07	113.18
9	H	80	ARG	CA-C-N	-16.76	103.12	120.38
9	H	80	ARG	C-N-CA	-16.76	103.12	120.38
10	I	79	HIS	N-CA-C	16.76	146.49	110.80
2	T	27	DA	OP1-P-O3'	-16.71	57.88	108.00
11	J	5	VAL	N-CA-C	-16.69	83.51	108.87
4	A	608	ILE	N-CA-C	16.67	132.04	107.37
4	A	1233	ASP	N-CA-C	-16.64	88.63	110.43
5	B	25	ILE	N-CA-C	16.61	128.16	110.05
4	A	120	GLU	N-CA-C	16.60	131.33	112.57
4	A	324	SER	N-CA-C	16.60	146.16	110.80
5	B	471	LYS	N-CA-CB	16.49	138.37	110.49
5	B	882	THR	CB-CA-C	-16.49	83.47	110.84
4	A	1405	THR	N-CA-C	16.36	133.24	113.28
5	B	1191	ILE	N-CA-C	16.34	131.78	108.42
4	A	1275	GLY	N-CA-C	-16.33	94.54	111.85
4	A	722	LEU	CB-CG-CD2	16.30	159.61	110.70
5	B	1015	HIS	CA-C-N	-16.29	101.20	123.03
5	B	1015	HIS	C-N-CA	-16.29	101.20	123.03
4	A	671	ALA	N-CA-C	16.28	135.04	109.65
4	A	833	GLU	N-CA-C	-16.28	91.16	111.02
5	B	838	SER	N-CA-C	-16.24	86.56	109.95
5	B	758	PHE	CA-C-N	-16.24	102.42	120.45
5	B	758	PHE	C-N-CA	-16.24	102.42	120.45
11	J	64	ASN	N-CA-C	16.23	145.69	109.81
5	B	745	PRO	N-CD-CG	-16.22	78.88	103.20
4	A	1227	ILE	CB-CA-C	-16.17	84.76	111.29
8	F	105	ALA	CB-CA-C	16.10	133.40	109.09
6	C	7	GLN	N-CA-C	16.05	134.90	108.26
5	B	956	THR	N-CA-C	16.00	132.84	108.52
4	A	321	PRO	N-CA-C	-15.96	70.61	112.10
5	B	471	LYS	O-C-N	15.88	143.71	122.59
9	H	81	PRO	N-CA-C	-15.82	91.40	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	749	LEU	CA-C-N	-15.82	108.09	122.17
5	B	749	LEU	C-N-CA	-15.82	108.09	122.17
4	A	863	VAL	CA-C-N	-15.80	106.18	122.77
4	A	863	VAL	C-N-CA	-15.80	106.18	122.77
4	A	476	SER	CA-C-N	-15.74	100.17	119.84
4	A	476	SER	C-N-CA	-15.74	100.17	119.84
4	A	531	ILE	CA-C-O	-15.71	101.14	120.78
5	B	222	ILE	N-CA-C	15.66	133.55	107.24
4	A	1444	MET	N-CA-C	15.58	128.09	108.45
5	B	881	ASN	CA-C-N	15.58	145.96	121.19
5	B	881	ASN	C-N-CA	15.58	145.96	121.19
5	B	1093	GLN	CA-C-N	-15.55	101.30	122.30
5	B	1093	GLN	C-N-CA	-15.55	101.30	122.30
7	E	63	ASN	N-CA-C	15.54	133.88	109.64
4	A	1310	GLY	CA-C-N	-15.48	101.75	123.11
4	A	1310	GLY	C-N-CA	-15.48	101.75	123.11
5	B	798	TYR	CA-C-O	-15.48	98.95	120.16
13	L	44	ASP	N-CA-C	-15.46	93.73	112.59
5	B	61	ASP	CA-C-N	-15.44	103.18	121.71
5	B	61	ASP	C-N-CA	-15.44	103.18	121.71
4	A	79	GLY	CA-C-O	-15.42	102.20	122.24
2	T	21	DC	C5'-C4'-C3'	15.40	138.00	114.90
4	A	319	GLY	N-CA-C	-15.31	76.89	113.18
4	A	820	GLY	CA-C-N	-15.31	92.39	121.63
4	A	820	GLY	C-N-CA	-15.31	92.39	121.63
4	A	1434	ALA	N-CA-C	15.30	131.40	110.29
5	B	901	PRO	N-CA-C	15.27	135.31	113.47
5	B	861	ASP	N-CA-C	15.26	134.85	108.75
5	B	484	ASN	N-CA-C	-15.26	87.98	109.95
11	J	54	VAL	O-C-N	15.22	139.64	123.20
5	B	287	ARG	N-CA-C	-15.22	94.14	111.03
5	B	497	ARG	NE-CZ-NH2	-15.17	105.55	119.20
5	B	511	PRO	N-CA-C	15.11	133.24	114.35
6	C	91	HIS	CB-CA-C	-15.11	84.88	109.80
6	C	199	LYS	N-CA-C	-15.11	94.89	113.02
5	B	591	ARG	N-CA-C	-15.08	88.23	109.95
5	B	304	ASP	CA-C-N	-15.07	103.57	122.26
5	B	304	ASP	C-N-CA	-15.07	103.57	122.26
4	A	325	ILE	N-CA-CB	15.07	136.09	111.23
5	B	796	LEU	CA-C-N	-15.03	98.95	120.29
5	B	796	LEU	C-N-CA	-15.03	98.95	120.29
10	I	74	GLU	N-CA-C	-15.00	86.59	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	L	58	LYS	N-CA-C	14.94	131.99	113.17
4	A	483	ASP	N-CA-C	-14.93	88.81	111.81
4	A	1315	GLU	CA-C-N	-14.91	104.11	121.85
4	A	1315	GLU	C-N-CA	-14.91	104.11	121.85
8	F	131	PRO	N-CA-CB	-14.90	87.61	103.25
5	B	589	VAL	N-CA-CB	-14.88	95.21	112.32
4	A	451	HIS	CB-CA-C	-14.86	80.86	110.42
4	A	1329	THR	CB-CA-C	-14.83	90.17	110.79
6	C	46	ILE	N-CA-C	14.81	127.96	108.12
5	B	190	TYR	N-CA-C	-14.77	94.72	111.71
7	E	194	GLU	CA-C-N	-14.73	103.96	123.12
7	E	194	GLU	C-N-CA	-14.73	103.96	123.12
6	C	42	PRO	N-CA-C	14.63	134.01	111.34
5	B	545	ILE	N-CA-C	14.62	129.17	108.12
12	K	16	GLU	N-CA-C	-14.60	79.70	110.80
5	B	296	GLU	N-CA-C	-14.59	94.80	112.89
9	H	92	ASP	N-CA-C	-14.59	95.51	113.02
5	B	113	TYR	CA-C-N	-14.58	101.62	119.84
5	B	113	TYR	C-N-CA	-14.58	101.62	119.84
6	C	89	GLU	N-CA-C	-14.55	90.91	110.55
4	A	337	ARG	NE-CZ-NH1	14.54	136.04	121.50
4	A	1333	ILE	N-CA-CB	-14.54	93.54	110.55
4	A	69	THR	N-CA-CB	14.53	135.05	110.49
7	E	75	MET	N-CA-C	14.53	129.71	110.53
5	B	348	ARG	CA-C-N	-14.51	102.28	120.56
5	B	348	ARG	C-N-CA	-14.51	102.28	120.56
5	B	68	THR	N-CA-C	14.51	131.72	109.96
5	B	370	PHE	N-CA-C	-14.50	79.92	110.80
4	A	221	SER	N-CA-C	-14.49	95.49	111.28
5	B	69	LEU	CA-C-O	14.49	136.22	120.43
2	T	17	DG	O3'-P-O5'	-14.44	82.34	104.00
4	A	316	GLN	N-CA-C	-14.42	93.39	110.41
10	I	26	LEU	N-CA-C	14.42	135.11	107.71
6	C	133	ILE	CB-CA-C	-14.42	95.73	111.59
5	B	97	VAL	N-CA-C	14.40	128.86	108.12
4	A	432	VAL	CA-C-N	-14.39	100.28	120.71
4	A	432	VAL	C-N-CA	-14.39	100.28	120.71
4	A	1138	ILE	N-CA-C	14.38	123.93	111.56
7	E	10	SER	N-CA-C	-14.36	93.50	111.02
5	B	470	LYS	O-C-N	14.33	141.65	122.59
4	A	1355	VAL	N-CA-C	-14.33	95.33	110.23
4	A	841	LEU	N-CA-C	-14.32	95.67	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1208	THR	N-CA-C	14.32	136.48	107.69
6	C	115	SER	N-CA-C	-14.29	95.78	111.36
4	A	269	ILE	N-CA-C	14.29	123.85	110.42
4	A	899	VAL	O-C-N	14.28	140.41	122.57
4	A	170	THR	N-CA-C	14.27	135.04	108.65
4	A	354	SER	CA-C-N	-14.24	107.31	122.69
4	A	354	SER	C-N-CA	-14.24	107.31	122.69
4	A	890	ASP	N-CA-C	-14.20	95.26	113.72
5	B	471	LYS	CB-CA-C	-14.16	82.24	110.42
4	A	711	ARG	N-CA-C	-14.13	96.12	113.50
5	B	740	HIS	CB-CA-C	14.13	132.47	109.72
10	I	25	LEU	N-CA-C	14.13	132.33	109.59
4	A	22	PHE	N-CA-C	14.09	131.10	108.41
4	A	1110	ASN	CA-CB-CG	14.09	126.69	112.60
4	A	384	ASN	N-CA-C	14.08	131.29	113.55
6	C	267	GLN	CA-C-N	-14.08	96.36	121.70
6	C	267	GLN	C-N-CA	-14.08	96.36	121.70
5	B	877	PRO	N-CA-C	14.06	130.90	111.22
4	A	87	ALA	CA-C-O	14.05	128.12	119.55
13	L	49	LYS	CA-C-N	14.03	148.33	121.54
13	L	49	LYS	C-N-CA	14.03	148.33	121.54
10	I	29	CYS	N-CA-C	14.02	130.85	109.96
4	A	1017	LEU	N-CA-C	-14.01	96.08	111.07
4	A	434	ARG	CA-C-O	13.99	137.21	121.40
4	A	253	ASN	CA-CB-CG	13.94	126.54	112.60
5	B	581	PHE	N-CA-C	13.94	131.13	108.41
7	E	202	SER	N-CA-C	13.94	130.51	107.23
4	A	972	HIS	CA-CB-CG	13.93	127.73	113.80
10	I	55	THR	N-CA-C	-13.91	92.38	110.33
7	E	155	ARG	CA-C-N	-13.91	99.45	122.82
7	E	155	ARG	C-N-CA	-13.91	99.45	122.82
5	B	580	VAL	CB-CA-C	-13.91	91.37	110.98
6	C	174	ALA	CA-C-N	-13.90	99.05	121.58
6	C	174	ALA	C-N-CA	-13.90	99.05	121.58
4	A	1031	VAL	CA-C-O	-13.86	106.86	121.27
5	B	484	ASN	CB-CA-C	-13.85	85.03	111.48
5	B	980	PHE	N-CA-C	13.85	127.07	108.38
7	E	83	CYS	N-CA-C	13.84	129.09	109.15
7	E	5	ASN	N-CA-C	-13.83	96.20	111.14
5	B	168	GLY	N-CA-C	13.82	145.92	113.18
5	B	432	MET	N-CA-C	13.81	140.22	110.80
7	E	85	GLU	CB-CA-C	-13.79	98.03	110.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	F	81	THR	N-CA-CB	-13.78	87.20	110.49
10	I	18	GLU	N-CA-C	13.78	130.59	108.41
5	B	334	ILE	N-CA-C	13.78	137.99	109.34
6	C	173	ALA	N-CA-C	13.75	130.97	112.13
7	E	119	SER	N-CA-C	-13.75	95.77	112.54
9	H	37	LYS	O-C-N	13.74	138.99	122.92
5	B	492	LEU	CA-CB-CG	-13.71	68.31	116.30
4	A	337	ARG	CD-NE-CZ	13.71	143.59	124.40
5	B	1048	THR	N-CA-C	13.68	126.85	108.38
4	A	532	ARG	N-CA-C	13.66	135.41	114.64
4	A	1392	SER	N-CA-C	13.63	139.83	110.80
7	E	135	PHE	CA-C-N	-13.62	102.02	121.50
7	E	135	PHE	C-N-CA	-13.62	102.02	121.50
4	A	380	VAL	CB-CA-C	-13.62	88.96	111.29
8	F	105	ALA	N-CA-C	-13.62	92.56	110.40
5	B	647	GLY	N-CA-C	13.62	145.45	113.18
8	F	75	PRO	CB-CA-C	-13.55	89.19	111.56
4	A	6	TYR	N-CA-C	-13.54	88.79	110.32
4	A	1274	ARG	CA-C-N	-13.54	103.75	122.57
4	A	1274	ARG	C-N-CA	-13.54	103.75	122.57
4	A	1393	ASN	CA-CB-CG	13.54	126.14	112.60
8	F	146	TRP	N-CA-C	13.51	130.69	108.26
10	I	32	CYS	O-C-N	13.51	135.84	120.58
9	H	134	ASN	N-CA-C	-13.50	82.04	110.80
11	J	49	MET	CA-CB-CG	-13.50	87.09	114.10
4	A	1333	ILE	CB-CA-C	13.49	129.24	111.97
7	E	26	ARG	O-C-N	13.48	137.99	122.22
5	B	483	LEU	CA-C-O	-13.48	101.24	120.51
4	A	1166	ASP	CA-C-N	-13.46	97.56	120.58
4	A	1166	ASP	C-N-CA	-13.46	97.56	120.58
6	C	158	VAL	CB-CA-C	-13.44	89.24	111.29
10	I	99	LEU	N-CA-C	13.44	128.69	110.55
4	A	163	SER	N-CA-C	13.43	132.46	108.69
9	H	19	ARG	CG-CD-NE	13.42	141.53	112.00
8	F	109	VAL	CB-CA-C	-13.42	89.29	111.29
9	H	87	ARG	N-CA-C	13.42	128.19	108.60
9	H	145	ARG	N-CA-C	13.39	130.50	108.26
6	C	159	ALA	N-CA-C	13.39	129.64	110.23
4	A	1303	GLU	CA-C-N	-13.37	104.14	122.99
4	A	1303	GLU	C-N-CA	-13.37	104.14	122.99
10	I	98	VAL	N-CA-C	13.36	127.98	109.55
4	A	55	ASP	N-CA-C	13.32	139.25	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	C	5	GLY	N-CA-C	13.32	139.51	112.34
10	I	80	SER	N-CA-C	13.32	126.79	110.41
4	A	316	GLN	N-CA-CB	13.31	127.77	111.79
5	B	326	ASP	N-CA-C	13.31	139.14	110.80
6	C	183	TRP	N-CA-C	-13.31	89.16	110.32
4	A	608	ILE	CB-CA-C	-13.29	92.71	111.19
4	A	1277	GLU	CB-CG-CD	13.29	135.20	112.60
4	A	735	VAL	CA-C-O	-13.26	106.33	121.05
4	A	23	SER	CA-C-N	-13.24	104.35	119.05
4	A	23	SER	C-N-CA	-13.24	104.35	119.05
6	C	162	GLY	N-CA-C	13.24	130.38	111.19
9	H	82	PRO	N-CA-CB	-13.24	89.35	103.25
5	B	466	TRP	CB-CG-CD1	13.22	146.72	126.90
4	A	1336	MET	N-CA-C	13.21	125.68	111.28
4	A	1361	SER	CA-CB-OG	13.20	137.50	111.10
12	K	21	ILE	N-CA-C	13.20	129.42	107.24
5	B	1093	GLN	N-CA-C	13.19	130.74	109.24
7	E	35	VAL	CB-CA-C	13.19	132.92	111.29
5	B	1099	VAL	N-CA-C	13.18	124.03	110.72
4	A	980	ASP	CB-CG-OD2	13.17	148.69	118.40
5	B	709	ASP	CA-CB-CG	13.17	125.77	112.60
4	A	331	GLY	N-CA-C	13.16	140.49	114.16
4	A	534	LEU	N-CA-C	-13.15	96.95	111.28
5	B	109	THR	CB-CA-C	13.15	131.75	110.19
5	B	1013	ASN	CA-C-N	-13.13	105.01	120.89
5	B	1013	ASN	C-N-CA	-13.13	105.01	120.89
4	A	322	VAL	N-CA-C	13.11	136.61	109.34
4	A	1278	ASN	CA-CB-CG	13.10	125.70	112.60
4	A	1335	ILE	N-CA-C	-13.10	96.61	110.23
4	A	57	ARG	N-CA-CB	13.07	132.57	110.49
5	B	747	MET	CA-C-N	-13.05	102.73	121.52
5	B	747	MET	C-N-CA	-13.05	102.73	121.52
5	B	860	MET	N-CA-C	13.04	129.73	109.52
5	B	788	ARG	N-CA-C	-13.04	88.90	109.50
9	H	20	TYR	CA-C-N	-13.03	101.75	122.73
9	H	20	TYR	C-N-CA	-13.03	101.75	122.73
4	A	685	GLU	N-CA-C	-13.03	95.51	111.40
4	A	1345	ARG	N-CA-C	-13.00	95.16	111.02
4	A	250	ILE	N-CA-C	13.00	136.38	109.34
12	K	23	PRO	N-CA-CB	-13.00	89.60	103.25
10	I	66	PRO	CB-CA-C	13.00	124.56	110.00
4	A	1381	LEU	N-CA-C	-12.98	87.73	108.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	C	221	TYR	CE1-CZ-OH	-12.98	80.95	119.90
5	B	113	TYR	CB-CA-C	12.98	124.58	110.17
8	F	138	LEU	CA-C-N	-12.97	105.95	121.00
8	F	138	LEU	C-N-CA	-12.97	105.95	121.00
5	B	475	SER	CA-C-N	12.95	146.28	121.54
5	B	475	SER	C-N-CA	12.95	146.28	121.54
10	I	10	CYS	N-CA-C	12.95	138.38	110.80
4	A	552	TRP	N-CA-C	12.94	125.39	111.28
5	B	172	ILE	N-CA-C	12.94	126.29	108.17
4	A	1320	PRO	CB-CA-C	-12.92	91.44	110.17
5	B	706	GLN	CA-C-N	-12.91	103.70	119.84
5	B	706	GLN	C-N-CA	-12.91	103.70	119.84
4	A	314	ALA	N-CA-C	12.91	138.30	110.80
5	B	512	ARG	N-CA-C	-12.89	97.52	113.38
4	A	378	GLU	CA-C-N	-12.88	101.89	122.50
4	A	378	GLU	C-N-CA	-12.88	101.89	122.50
5	B	644	GLU	N-CA-C	12.88	130.94	108.02
10	I	118	ARG	N-CA-C	12.86	129.60	108.26
4	A	1368	MET	CG-SD-CE	12.85	129.16	100.90
4	A	720	ARG	CG-CD-NE	-12.84	83.75	112.00
5	B	693	ILE	N-CA-C	12.84	127.84	108.71
5	B	880	THR	N-CA-C	12.83	138.13	110.80
4	A	249	SER	N-CA-CB	-12.82	88.82	110.49
5	B	132	VAL	CA-C-O	-12.82	104.75	120.78
9	H	31	THR	N-CA-CB	12.82	128.08	110.38
1	R	8	G	OP1-P-O3'	-12.82	69.53	108.00
5	B	595	ARG	CD-NE-CZ	12.80	142.33	124.40
4	A	917	SER	CA-C-N	-12.79	97.11	121.54
4	A	917	SER	C-N-CA	-12.79	97.11	121.54
4	A	1206	ASP	N-CA-C	-12.79	86.24	108.23
5	B	1011	ILE	CB-CA-C	-12.78	92.62	110.77
4	A	323	LYS	CA-C-N	-12.75	97.19	121.54
4	A	323	LYS	C-N-CA	-12.75	97.19	121.54
5	B	475	SER	O-C-N	12.75	139.55	122.59
4	A	751	SER	O-C-N	12.75	139.51	122.30
10	I	95	THR	N-CA-C	12.73	129.88	110.14
9	H	49	VAL	CB-CA-C	-12.73	99.78	111.74
5	B	1131	GLY	N-CA-C	12.72	126.25	111.36
4	A	520	CYS	N-CA-C	12.71	129.58	112.30
5	B	638	PHE	N-CA-CB	12.71	130.97	110.51
4	A	372	LYS	N-CA-C	-12.70	97.81	113.18
5	B	806	THR	N-CA-C	-12.70	90.22	109.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	182	VAL	N-CA-C	12.67	128.53	107.24
4	A	1348	LEU	N-CA-C	-12.67	97.51	111.07
4	A	903	ASN	CA-C-N	-12.63	97.41	121.54
4	A	903	ASN	C-N-CA	-12.63	97.41	121.54
5	B	25	ILE	CB-CA-C	-12.62	97.71	111.59
5	B	21	GLU	N-CA-C	12.61	137.67	110.80
4	A	56	PRO	O-C-N	12.61	139.66	122.64
4	A	1155	ASP	N-CA-C	-12.60	81.95	109.81
4	A	1294	PRO	N-CA-CB	-12.60	90.02	103.25
9	H	36	CYS	N-CA-C	12.60	130.29	108.75
4	A	753	GLY	O-C-N	12.60	133.73	122.90
6	C	73	GLN	CA-C-N	-12.58	102.28	121.53
6	C	73	GLN	C-N-CA	-12.58	102.28	121.53
4	A	309	ALA	N-CA-C	12.57	137.58	110.80
5	B	635	ARG	CA-CB-CG	-12.56	88.97	114.10
4	A	308	ILE	CB-CA-C	-12.56	97.77	111.59
6	C	260	LEU	CA-C-N	-12.54	97.12	121.58
6	C	260	LEU	C-N-CA	-12.54	97.12	121.58
4	A	270	LEU	N-CA-C	-12.54	98.27	113.19
7	E	195	VAL	CA-C-N	-12.53	99.41	121.97
7	E	195	VAL	C-N-CA	-12.53	99.41	121.97
9	H	100	THR	N-CA-CB	12.53	130.90	110.85
4	A	681	GLU	N-CA-C	-12.53	97.71	111.36
5	B	1172	ILE	CA-C-O	12.52	136.43	120.78
5	B	981	ALA	O-C-N	12.52	139.24	122.59
4	A	1109	LYS	O-C-N	12.51	137.31	122.17
6	C	58	LEU	CA-C-N	-12.51	96.92	122.07
6	C	58	LEU	C-N-CA	-12.51	96.92	122.07
13	L	68	GLU	CA-C-N	-12.51	103.59	123.23
13	L	68	GLU	C-N-CA	-12.51	103.59	123.23
5	B	707	PRO	N-CA-C	-12.50	86.72	112.47
5	B	948	ILE	CA-C-N	-12.50	102.97	120.35
5	B	948	ILE	C-N-CA	-12.50	102.97	120.35
9	H	59	ILE	N-CA-C	12.48	123.21	111.48
4	A	752	LYS	N-CA-C	12.47	128.76	108.55
5	B	212	LEU	CA-C-N	-12.47	106.78	122.37
5	B	212	LEU	C-N-CA	-12.47	106.78	122.37
5	B	553	PRO	N-CA-C	-12.47	97.63	113.84
7	E	80	VAL	CA-C-O	-12.47	107.89	121.23
5	B	1085	ILE	N-CA-CB	-12.46	91.53	112.47
4	A	585	GLY	CA-C-N	-12.46	106.16	123.11
4	A	585	GLY	C-N-CA	-12.46	106.16	123.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	L	65	VAL	CA-C-N	-12.45	106.21	122.77
13	L	65	VAL	C-N-CA	-12.45	106.21	122.77
9	H	140	ALA	CA-C-N	-12.44	100.50	122.15
9	H	140	ALA	C-N-CA	-12.44	100.50	122.15
5	B	957	ASN	N-CA-C	12.43	129.61	109.59
5	B	853	SER	N-CA-C	12.43	124.62	108.34
5	B	474	SER	N-CA-C	-12.41	97.50	112.89
4	A	722	LEU	CA-C-N	-12.40	103.57	120.44
4	A	722	LEU	C-N-CA	-12.40	103.57	120.44
5	B	903	VAL	CB-CA-C	-12.40	95.03	111.15
4	A	532	ARG	CB-CA-C	-12.38	90.60	109.29
5	B	817	LEU	CA-C-N	12.38	135.31	119.84
5	B	817	LEU	C-N-CA	12.38	135.31	119.84
10	I	107	SER	CA-CB-OG	12.36	135.82	111.10
10	I	14	LEU	O-C-N	12.36	139.29	123.23
4	A	531	ILE	N-CA-CB	12.36	131.62	111.23
7	E	117	THR	N-CA-CB	12.36	132.37	110.37
5	B	853	SER	CA-CB-OG	-12.35	86.39	111.10
4	A	56	PRO	N-CA-C	12.35	137.91	112.47
5	B	825	VAL	N-CA-C	12.35	127.87	108.85
5	B	102	VAL	CB-CA-C	-12.34	91.05	111.29
4	A	1029	ARG	CB-CA-C	-12.34	90.26	110.74
5	B	635	ARG	CB-CA-C	-12.34	85.86	110.17
5	B	130	VAL	CA-C-O	-12.33	107.20	121.75
6	C	151	GLN	CA-C-N	-12.31	102.78	122.73
6	C	151	GLN	C-N-CA	-12.31	102.78	122.73
7	E	157	SER	N-CA-C	12.31	137.02	110.80
10	I	36	GLU	CA-CB-CG	12.30	138.71	114.10
13	L	64	LEU	O-C-N	12.30	138.94	122.59
4	A	1443	VAL	O-C-N	12.28	136.34	123.07
4	A	1335	ILE	CA-C-N	-12.28	103.82	120.28
4	A	1335	ILE	C-N-CA	-12.28	103.82	120.28
4	A	49	LYS	CA-C-O	-12.27	110.60	118.33
4	A	1271	ILE	N-CA-C	12.25	126.84	107.73
4	A	542	GLU	N-CA-C	12.24	128.65	110.17
8	F	130	ILE	N-CA-C	-12.24	82.44	108.88
4	A	997	LEU	CA-C-N	-12.22	98.20	121.54
4	A	997	LEU	C-N-CA	-12.22	98.20	121.54
5	B	305	VAL	N-CA-C	12.21	122.78	111.91
10	I	96	SER	CA-CB-OG	12.21	135.53	111.10
4	A	566	ILE	N-CA-CB	12.21	121.65	111.64
5	B	588	GLY	CA-C-N	-12.21	106.73	123.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	588	GLY	C-N-CA	-12.21	106.73	123.46
5	B	231	PRO	N-CA-CB	-12.20	90.44	103.25
5	B	798	TYR	C-N-CD	-12.20	75.00	125.00
5	B	473	MET	CA-C-O	12.19	137.94	120.51
4	A	78	PRO	CA-C-N	-12.18	107.16	120.44
4	A	78	PRO	C-N-CA	-12.18	107.16	120.44
4	A	568	PRO	N-CA-C	12.18	137.56	112.47
5	B	450	ALA	O-C-N	12.16	138.77	122.59
13	L	28	LYS	CA-C-N	-12.16	106.11	122.16
13	L	28	LYS	C-N-CA	-12.16	106.11	122.16
4	A	463	ILE	CA-C-N	12.15	131.88	120.21
4	A	463	ILE	C-N-CA	12.15	131.88	120.21
10	I	83	ASN	CA-C-N	-12.15	100.10	121.97
10	I	83	ASN	C-N-CA	-12.15	100.10	121.97
4	A	93	VAL	N-CA-C	12.14	134.60	109.34
12	K	58	PHE	N-CA-C	12.14	129.51	108.75
4	A	1282	VAL	CB-CA-C	-12.14	91.39	111.29
5	B	731	VAL	N-CA-CB	-12.13	91.22	111.23
5	B	868	MET	N-CA-C	-12.13	83.31	107.69
9	H	127	GLY	CA-C-N	-12.12	101.90	122.14
9	H	127	GLY	C-N-CA	-12.12	101.90	122.14
7	E	117	THR	CA-CB-OG1	12.12	127.78	109.60
5	B	253	THR	N-CA-C	12.11	129.05	108.23
7	E	190	LEU	CA-C-N	-12.10	100.89	123.27
7	E	190	LEU	C-N-CA	-12.10	100.89	123.27
4	A	476	SER	CA-CB-OG	-12.10	86.91	111.10
6	C	98	VAL	N-CA-C	12.09	125.09	108.17
5	B	231	PRO	CA-N-CD	-12.08	95.08	112.00
4	A	588	LEU	N-CA-C	12.08	128.31	108.26
4	A	311	GLN	CA-CB-CG	12.08	138.25	114.10
8	F	103	MET	CG-SD-CE	12.06	127.44	100.90
4	A	265	LYS	N-CA-C	-12.06	98.69	113.41
4	A	998	LEU	CB-CG-CD1	-12.05	74.53	110.70
11	J	3	VAL	CA-C-N	-12.05	104.77	119.84
11	J	3	VAL	C-N-CA	-12.05	104.77	119.84
4	A	112	LYS	N-CA-C	-12.04	90.77	109.07
4	A	1113	THR	CA-C-N	-12.03	104.80	119.84
4	A	1113	THR	C-N-CA	-12.03	104.80	119.84
5	B	619	ILE	CA-C-O	12.03	133.81	120.46
5	B	882	THR	CA-C-N	-12.02	105.51	122.46
5	B	882	THR	C-N-CA	-12.02	105.51	122.46
13	L	65	VAL	N-CA-C	12.02	125.43	108.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1072	ILE	CA-C-N	12.01	133.56	119.99
4	A	1072	ILE	C-N-CA	12.01	133.56	119.99
5	B	1098	MET	CA-C-N	-12.01	103.37	120.42
5	B	1098	MET	C-N-CA	-12.01	103.37	120.42
5	B	689	LEU	CA-C-N	-12.00	100.36	121.97
5	B	689	LEU	C-N-CA	-12.00	100.36	121.97
4	A	864	ILE	O-C-N	12.00	134.21	121.97
5	B	801	LYS	N-CA-C	-11.99	94.69	110.40
5	B	1156	ASP	CB-CA-C	-11.99	90.67	109.61
5	B	166	PHE	CA-C-N	11.99	140.13	122.75
5	B	166	PHE	C-N-CA	11.99	140.13	122.75
5	B	723	VAL	CB-CA-C	-11.97	91.65	111.29
4	A	1007	ILE	N-CA-C	-11.96	99.86	110.74
13	L	52	GLY	CA-C-N	-11.95	102.81	122.17
13	L	52	GLY	C-N-CA	-11.95	102.81	122.17
5	B	1092	TYR	N-CA-C	11.95	128.66	110.14
4	A	1283	VAL	N-CA-C	11.94	126.94	108.44
4	A	783	THR	N-CA-C	11.93	124.03	111.14
4	A	1006	ILE	CA-C-O	11.91	132.42	119.92
9	H	49	VAL	CA-C-O	-11.90	112.69	120.66
5	B	712	PRO	N-CA-C	-11.90	87.96	112.47
5	B	731	VAL	CA-C-N	-11.89	102.88	122.39
5	B	731	VAL	C-N-CA	-11.89	102.88	122.39
10	I	78	CYS	CB-CA-C	-11.89	86.75	110.42
4	A	666	ILE	N-CA-C	-11.88	95.99	112.50
4	A	43	GLU	N-CA-C	-11.88	89.88	109.24
5	B	1113	VAL	CB-CA-C	-11.86	91.84	111.29
4	A	147	VAL	CB-CA-C	-11.83	94.30	110.98
5	B	866	TYR	N-CA-CB	11.82	126.53	110.57
5	B	694	ASP	CB-CA-C	-11.81	89.64	109.48
5	B	131	ASP	CA-CB-CG	11.80	124.40	112.60
8	F	86	THR	CB-CA-C	-11.80	89.33	109.51
4	A	624	SER	N-CA-C	-11.79	96.21	112.25
4	A	1403	GLU	O-C-N	-11.79	107.93	122.20
5	B	275	TYR	CA-CB-CG	11.79	135.13	113.90
6	C	121	VAL	N-CA-C	11.79	128.97	112.35
5	B	244	LEU	N-CA-C	11.78	126.91	109.59
9	H	102	TYR	N-CA-C	11.78	128.05	114.62
4	A	877	HIS	CA-C-N	-11.77	105.16	122.58
4	A	877	HIS	C-N-CA	-11.77	105.16	122.58
4	A	352	VAL	CB-CA-C	-11.76	92.00	111.29
5	B	133	LYS	N-CA-C	11.75	128.12	109.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	193	LYS	CA-C-N	-11.75	104.65	122.74
5	B	193	LYS	C-N-CA	-11.75	104.65	122.74
7	E	9	ILE	CB-CA-C	11.74	122.58	111.30
4	A	1040	GLN	O-C-N	11.74	135.73	122.11
4	A	806	ARG	NE-CZ-NH2	-11.70	108.67	119.20
12	K	107	THR	N-CA-C	-11.70	98.81	113.55
4	A	201	VAL	CA-C-N	-11.70	107.63	122.84
4	A	201	VAL	C-N-CA	-11.70	107.63	122.84
11	J	48	ARG	NE-CZ-NH2	11.69	129.72	119.20
5	B	1054	GLY	CA-C-N	11.68	135.13	120.88
5	B	1054	GLY	C-N-CA	11.68	135.13	120.88
4	A	1289	ARG	CA-C-N	11.68	139.88	121.66
4	A	1289	ARG	C-N-CA	11.68	139.88	121.66
1	R	1	A	C2'-C3'-O3'	11.68	131.21	113.70
7	E	202	SER	CB-CA-C	-11.67	96.13	111.42
6	C	140	ASN	CA-C-N	-11.67	98.53	121.41
6	C	140	ASN	C-N-CA	-11.67	98.53	121.41
5	B	467	GLY	CA-C-N	11.67	143.82	121.54
5	B	467	GLY	C-N-CA	11.67	143.82	121.54
4	A	284	ALA	N-CA-C	11.66	135.58	109.81
6	C	142	VAL	CB-CA-C	-11.66	92.17	111.29
4	A	1219	THR	N-CA-CB	-11.65	90.80	110.49
2	T	13	DA	OP2-P-O3'	11.65	142.96	108.00
5	B	899	ILE	CB-CA-C	-11.62	92.23	111.29
5	B	1168	LEU	N-CA-C	11.62	127.24	109.23
5	B	93	GLY	N-CA-C	-11.62	92.26	111.08
6	C	163	ILE	N-CA-C	11.61	124.84	108.12
4	A	637	LYS	CA-C-O	-11.61	108.75	120.70
4	A	974	ASP	N-CA-C	11.60	128.04	108.20
5	B	745	PRO	CA-N-CD	-11.60	95.76	112.00
4	A	1404	GLU	CA-C-N	-11.59	100.50	122.06
4	A	1404	GLU	C-N-CA	-11.59	100.50	122.06
4	A	726	ARG	N-CA-C	-11.58	98.66	111.28
4	A	927	VAL	N-CA-C	11.57	121.52	110.30
4	A	1137	ALA	N-CA-C	-11.56	99.17	113.97
6	C	36	VAL	N-CA-C	-11.54	98.24	110.36
8	F	150	GLU	N-CA-C	11.54	123.94	111.36
4	A	1270	ASN	N-CA-C	-11.54	95.66	113.89
4	A	1151	GLU	N-CA-C	11.54	128.08	109.85
4	A	466	SER	N-CA-C	11.52	124.78	108.54
5	B	388	CYS	CA-C-N	-11.51	104.23	122.65
5	B	388	CYS	C-N-CA	-11.51	104.23	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	F	78	GLN	CB-CA-C	11.51	126.55	111.82
4	A	898	ARG	CG-CD-NE	11.50	137.31	112.00
7	E	35	VAL	N-CA-C	-11.49	85.44	109.34
4	A	613	ILE	CA-C-N	-11.49	100.60	121.62
4	A	613	ILE	C-N-CA	-11.49	100.60	121.62
7	E	199	ILE	N-CA-CB	-11.49	97.41	112.34
5	B	881	ASN	CB-CA-C	11.48	133.26	110.42
5	B	192	LEU	CB-CG-CD2	-11.46	76.33	110.70
7	E	32	GLN	CA-C-N	-11.45	99.67	121.54
7	E	32	GLN	C-N-CA	-11.45	99.67	121.54
4	A	1394	THR	CB-CA-C	-11.45	87.64	110.42
4	A	6	TYR	CA-C-N	-11.44	101.81	123.32
4	A	6	TYR	C-N-CA	-11.44	101.81	123.32
5	B	1218	THR	N-CA-CB	-11.43	93.78	110.47
4	A	540	PHE	N-CA-C	11.43	128.57	110.17
4	A	968	GLN	CA-C-N	-11.41	104.48	122.29
4	A	968	GLN	C-N-CA	-11.41	104.48	122.29
5	B	1006	ILE	N-CA-C	11.41	125.83	109.51
4	A	469	ARG	CG-CD-NE	-11.41	86.90	112.00
4	A	289	ILE	N-CA-C	-11.39	85.65	109.34
5	B	68	THR	CA-C-N	11.39	138.44	122.72
5	B	68	THR	C-N-CA	11.39	138.44	122.72
4	A	431	LYS	N-CA-C	11.38	124.91	108.86
9	H	23	VAL	CA-C-N	11.38	139.24	122.39
9	H	23	VAL	C-N-CA	11.38	139.24	122.39
4	A	564	ALA	CA-C-N	-11.38	104.32	122.64
4	A	564	ALA	C-N-CA	-11.38	104.32	122.64
12	K	38	GLU	CG-CD-OE1	-11.37	92.24	118.40
12	K	57	LEU	O-C-N	11.37	133.86	122.03
6	C	68	GLY	CA-C-N	-11.37	104.46	122.65
6	C	68	GLY	C-N-CA	-11.37	104.46	122.65
4	A	108	MET	N-CA-CB	-11.36	91.29	110.49
4	A	1136	SER	CA-C-O	11.36	133.30	119.78
5	B	166	PHE	O-C-N	11.36	138.00	123.23
5	B	323	VAL	CB-CA-C	-11.35	97.80	111.65
8	F	74	ILE	CA-C-N	11.35	134.03	119.84
8	F	74	ILE	C-N-CA	11.35	134.03	119.84
4	A	4	GLN	N-CA-CB	11.35	128.01	110.87
4	A	1326	ARG	CA-C-N	-11.35	101.54	121.97
4	A	1326	ARG	C-N-CA	-11.35	101.54	121.97
7	E	205	SER	N-CA-C	-11.34	86.64	110.80
4	A	909	ASP	CA-C-N	-11.34	105.67	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	909	ASP	C-N-CA	-11.34	105.67	119.84
6	C	93	ASP	N-CA-C	-11.34	99.10	113.16
13	L	57	LEU	N-CA-CB	-11.33	93.27	111.62
4	A	117	GLU	O-C-N	11.32	134.12	122.12
4	A	311	GLN	CB-CG-CD	11.32	131.84	112.60
10	I	4	PHE	O-C-N	11.32	137.64	122.59
4	A	421	ALA	N-CA-CB	-11.31	93.95	110.80
2	T	20	DC	C4'-C3'-O3'	11.31	126.96	110.00
4	A	886	ILE	CA-C-N	-11.31	109.15	122.83
4	A	886	ILE	C-N-CA	-11.31	109.15	122.83
4	A	53	LEU	CB-CA-C	-11.30	86.91	111.78
5	B	655	LYS	CB-CG-CD	11.30	137.29	111.30
5	B	884	ARG	N-CA-CB	11.30	131.36	111.13
4	A	315	LEU	N-CA-C	-11.30	86.74	110.80
4	A	538	ASP	CA-C-N	-11.30	106.58	123.07
4	A	538	ASP	C-N-CA	-11.30	106.58	123.07
4	A	586	ILE	CA-C-N	-11.30	107.41	123.00
4	A	586	ILE	C-N-CA	-11.30	107.41	123.00
11	J	5	VAL	CB-CA-C	-11.28	95.75	111.21
4	A	513	SER	N-CA-C	11.27	123.81	109.72
6	C	149	LYS	N-CA-CB	11.27	126.35	110.01
5	B	637	LEU	CA-C-N	-11.27	102.70	122.64
5	B	637	LEU	C-N-CA	-11.27	102.70	122.64
7	E	82	PHE	N-CA-C	11.25	126.10	108.67
4	A	842	VAL	CA-C-N	-11.24	105.06	122.49
4	A	842	VAL	C-N-CA	-11.24	105.06	122.49
5	B	1083	ALA	CA-C-N	-11.24	102.28	122.74
5	B	1083	ALA	C-N-CA	-11.24	102.28	122.74
6	C	152	GLU	CA-CB-CG	11.24	136.59	114.10
4	A	895	LYS	CB-CG-CD	11.23	137.14	111.30
4	A	410	GLY	O-C-N	11.23	137.30	122.70
4	A	297	GLN	N-CA-C	-11.22	97.71	111.40
8	F	123	LYS	CA-C-N	-11.22	103.26	122.56
8	F	123	LYS	C-N-CA	-11.22	103.26	122.56
10	I	65	ASP	CB-CA-C	11.22	126.54	109.60
11	J	43	ARG	N-CA-C	11.21	126.48	110.23
4	A	257	ARG	CB-CA-C	-11.20	88.94	110.11
9	H	19	ARG	N-CA-C	-11.20	86.94	110.80
5	B	630	ALA	N-CA-C	11.20	127.50	110.14
6	C	91	HIS	CA-C-N	-11.19	105.68	122.23
6	C	91	HIS	C-N-CA	-11.19	105.68	122.23
4	A	861	GLY	N-CA-C	-11.18	100.39	114.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	1171	VAL	O-C-N	11.18	136.54	122.57
4	A	927	VAL	CB-CA-C	-11.17	97.84	111.81
5	B	424	LEU	N-CA-C	-11.17	97.45	111.75
4	A	735	VAL	N-CA-CB	11.17	124.87	110.57
4	A	89	PRO	N-CA-CB	-11.16	91.53	103.25
4	A	468	PHE	CA-C-N	-11.16	106.74	122.93
4	A	468	PHE	C-N-CA	-11.16	106.74	122.93
5	B	264	SER	N-CA-C	-11.15	94.74	110.35
5	B	1212	ILE	N-CA-C	11.14	125.82	108.89
4	A	302	THR	N-CA-CB	-11.14	91.62	109.78
5	B	893	LEU	CA-C-O	-11.14	108.90	120.71
9	H	80	ARG	N-CA-C	-11.14	85.20	109.81
4	A	620	LYS	N-CA-C	-11.13	99.73	113.20
10	I	78	CYS	CA-CB-SG	11.13	139.99	114.40
4	A	98	LYS	N-CA-C	-11.12	87.11	110.80
5	B	884	ARG	N-CA-C	-11.12	90.16	109.06
4	A	1172	LEU	CA-C-O	-11.12	104.61	120.51
4	A	665	GLY	CA-C-N	-11.11	102.42	120.64
4	A	665	GLY	C-N-CA	-11.11	102.42	120.64
4	A	437	MET	N-CA-C	11.11	125.68	109.69
5	B	944	THR	CB-CA-C	-11.10	92.53	109.29
5	B	167	ILE	CA-C-O	-11.09	108.35	120.43
4	A	84	ILE	O-C-N	11.08	136.42	122.57
4	A	345	VAL	N-CA-C	11.08	125.62	108.44
5	B	520	GLY	CA-C-N	-11.08	102.80	122.42
5	B	520	GLY	C-N-CA	-11.08	102.80	122.42
5	B	752	ALA	CA-C-N	-11.08	100.37	121.54
5	B	752	ALA	C-N-CA	-11.08	100.37	121.54
10	I	3	THR	N-CA-CB	11.08	129.21	110.49
5	B	1089	PRO	N-CA-C	-11.07	93.19	111.68
5	B	1193	GLN	N-CA-C	-11.07	91.35	108.96
10	I	35	VAL	CA-C-N	-11.07	104.27	122.21
10	I	35	VAL	C-N-CA	-11.07	104.27	122.21
11	J	62	ARG	CG-CD-NE	-11.07	87.65	112.00
4	A	1313	LEU	O-C-N	11.06	136.61	122.23
5	B	916	THR	CA-C-N	11.06	133.66	119.84
5	B	916	THR	C-N-CA	11.06	133.66	119.84
4	A	978	PRO	N-CA-C	11.05	135.24	112.47
5	B	49	ASP	N-CA-C	-11.05	97.85	111.11
4	A	274	ILE	CA-C-O	-11.05	108.89	120.71
4	A	1187	GLN	CA-C-N	11.05	137.74	121.72
4	A	1187	GLN	C-N-CA	11.05	137.74	121.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	223	VAL	N-CA-CB	-11.05	93.00	111.23
10	I	77	LYS	CA-CB-CG	11.04	136.19	114.10
5	B	1046	PRO	N-CA-C	11.04	135.21	112.47
11	J	61	LEU	N-CA-C	-11.04	99.25	111.28
5	B	353	LYS	CA-CB-CG	11.03	136.16	114.10
10	I	77	LYS	CB-CG-CD	11.03	136.67	111.30
7	E	73	PRO	N-CA-CB	-11.03	91.67	103.25
5	B	91	SER	CA-C-N	-11.02	103.67	121.86
5	B	91	SER	C-N-CA	-11.02	103.67	121.86
5	B	809	MET	N-CA-C	-11.01	99.36	111.36
4	A	265	LYS	CD-CE-NZ	11.00	147.09	111.90
4	A	316	GLN	CA-C-N	11.00	142.54	121.54
4	A	316	GLN	C-N-CA	11.00	142.54	121.54
7	E	111	VAL	N-CA-C	11.00	132.21	109.34
4	A	404	TYR	N-CA-C	10.99	134.22	110.80
5	B	889	THR	CB-CA-C	-10.99	90.93	109.50
5	B	315	LYS	CA-CB-CG	10.99	136.07	114.10
4	A	1422	ARG	CA-C-O	10.98	131.31	119.34
5	B	640	VAL	N-CA-C	10.98	132.19	109.34
5	B	316	PRO	N-CA-C	10.98	128.08	114.35
10	I	8	ARG	CD-NE-CZ	10.98	139.77	124.40
6	C	172	PRO	CA-C-N	-10.97	106.10	122.56
6	C	172	PRO	C-N-CA	-10.97	106.10	122.56
5	B	1137	CYS	CA-C-N	-10.97	105.58	120.28
5	B	1137	CYS	C-N-CA	-10.97	105.58	120.28
4	A	102	VAL	CB-CA-C	-10.96	88.30	111.32
6	C	9	LYS	N-CA-CB	10.96	128.91	110.71
7	E	133	GLU	N-CA-C	-10.95	87.48	110.80
4	A	602	ASP	N-CA-C	-10.94	96.29	111.39
5	B	1166	CYS	N-CA-CB	-10.94	97.19	110.53
4	A	293	GLU	N-CA-C	-10.94	96.73	113.02
4	A	415	LEU	CA-C-N	-10.93	105.08	122.24
4	A	415	LEU	C-N-CA	-10.93	105.08	122.24
4	A	1434	ALA	CB-CA-C	-10.93	93.12	108.86
10	I	16	PRO	CA-CB-CG	-10.93	83.73	104.50
6	C	176	ILE	CB-CA-C	-10.92	95.01	110.96
4	A	142	CYS	N-CA-C	-10.92	97.34	110.44
4	A	664	THR	N-CA-C	-10.92	87.55	110.80
5	B	595	ARG	CB-CG-CD	10.91	136.40	111.30
7	E	4	GLU	CB-CG-CD	10.91	131.15	112.60
9	H	128	ASN	N-CA-C	10.91	127.14	112.30
4	A	1011	GLN	CA-CB-CG	-10.91	92.29	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	510	LYS	N-CA-C	10.91	124.46	108.76
4	A	532	ARG	CA-C-N	-10.90	99.59	121.18
4	A	532	ARG	C-N-CA	-10.90	99.59	121.18
8	F	145	ASP	N-CA-C	10.90	125.87	110.50
8	F	76	LYS	CB-CG-CD	10.90	136.38	111.30
4	A	670	ILE	CA-C-N	-10.90	101.94	123.09
4	A	670	ILE	C-N-CA	-10.90	101.94	123.09
4	A	1018	PHE	N-CA-C	10.89	124.18	111.11
5	B	209	GLU	CA-C-N	-10.89	104.51	122.81
5	B	209	GLU	C-N-CA	-10.89	104.51	122.81
4	A	727	ASP	N-CA-C	10.89	124.45	111.82
5	B	852	ARG	CA-C-N	-10.89	104.53	122.39
5	B	852	ARG	C-N-CA	-10.89	104.53	122.39
5	B	706	GLN	N-CA-C	-10.88	85.76	109.81
4	A	1278	ASN	CA-C-N	-10.88	110.62	122.59
4	A	1278	ASN	C-N-CA	-10.88	110.62	122.59
10	I	107	SER	CB-CA-C	10.87	132.06	110.42
12	K	83	PRO	CB-CG-CD	-10.87	71.30	106.10
4	A	606	LEU	CA-C-N	-10.87	102.40	121.97
4	A	606	LEU	C-N-CA	-10.87	102.40	121.97
4	A	1217	LYS	N-CA-C	-10.86	99.52	111.36
5	B	211	VAL	CB-CA-C	-10.86	94.30	110.81
5	B	667	GLN	CB-CG-CD	10.86	131.07	112.60
4	A	971	PHE	CA-C-N	10.86	142.28	121.54
4	A	971	PHE	C-N-CA	10.86	142.28	121.54
5	B	29	ASP	CB-CG-OD1	-10.86	93.43	118.40
5	B	629	ASP	CA-C-N	-10.86	103.81	122.92
5	B	629	ASP	C-N-CA	-10.86	103.81	122.92
5	B	1157	ALA	N-CA-C	-10.85	92.02	108.52
4	A	968	GLN	CA-CB-CG	10.85	135.79	114.10
5	B	427	ASP	CB-CA-C	-10.85	91.33	109.55
4	A	1162	VAL	CA-C-N	-10.84	107.99	123.28
4	A	1162	VAL	C-N-CA	-10.84	107.99	123.28
5	B	823	ALA	N-CA-C	10.84	125.53	110.24
4	A	776	ALA	N-CA-C	10.83	133.87	110.80
4	A	259	GLU	N-CA-CB	-10.82	93.68	110.46
5	B	878	GLN	N-CA-C	10.82	133.85	110.80
4	A	639	PRO	CA-C-N	-10.81	103.87	120.31
4	A	639	PRO	C-N-CA	-10.81	103.87	120.31
6	C	86	CYS	CA-C-N	-10.81	105.03	122.66
6	C	86	CYS	C-N-CA	-10.81	105.03	122.66
4	A	1443	VAL	CA-C-N	10.81	140.79	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1443	VAL	C-N-CA	10.81	140.79	122.20
12	K	46	ILE	CB-CA-C	-10.81	97.88	112.04
4	A	1305	VAL	CA-C-N	-10.80	105.48	122.87
4	A	1305	VAL	C-N-CA	-10.80	105.48	122.87
5	B	265	SER	CA-C-N	-10.80	100.91	121.54
5	B	265	SER	C-N-CA	-10.80	100.91	121.54
5	B	885	MET	CA-C-N	-10.79	106.11	122.09
5	B	885	MET	C-N-CA	-10.79	106.11	122.09
4	A	1160	SER	N-CA-C	10.79	125.03	108.96
5	B	940	PRO	CB-CA-C	-10.77	93.79	111.56
4	A	1313	LEU	CB-CA-C	-10.76	91.01	110.70
4	A	599	SER	CA-C-N	-10.76	106.39	119.84
4	A	599	SER	C-N-CA	-10.76	106.39	119.84
4	A	1207	LEU	CA-C-N	10.75	139.37	123.13
4	A	1207	LEU	C-N-CA	10.75	139.37	123.13
6	C	220	ASP	CA-C-N	-10.74	105.84	122.49
6	C	220	ASP	C-N-CA	-10.74	105.84	122.49
4	A	286	HIS	CA-CB-CG	10.74	124.54	113.80
4	A	794	PRO	N-CA-C	10.74	134.60	112.47
4	A	1038	THR	O-C-N	10.74	133.35	123.26
4	A	1403	GLU	N-CA-C	10.74	128.98	111.37
8	F	135	ARG	CA-CB-CG	-10.74	92.62	114.10
5	B	123	THR	N-CA-C	10.73	127.70	107.75
10	I	40	SER	CA-CB-OG	10.73	132.56	111.10
4	A	820	GLY	O-C-N	10.72	136.63	122.70
8	F	77	ASP	CB-CA-C	-10.71	91.30	110.36
5	B	577	ALA	CA-C-N	-10.70	105.83	121.24
5	B	577	ALA	C-N-CA	-10.70	105.83	121.24
4	A	955	PRO	N-CA-C	-10.70	94.40	111.19
9	H	31	THR	N-CA-C	-10.69	95.59	110.35
5	B	1088	GLY	CA-C-N	-10.69	108.81	120.14
5	B	1088	GLY	C-N-CA	-10.69	108.81	120.14
6	C	148	ARG	N-CA-C	10.69	124.36	109.29
4	A	363	GLN	O-C-N	10.68	135.89	122.43
9	H	110	ASP	CA-CB-CG	10.68	123.28	112.60
5	B	746	SER	CA-C-N	-10.68	105.25	122.66
5	B	746	SER	C-N-CA	-10.68	105.25	122.66
2	T	21	DC	O5'-P-OP1	10.68	141.02	109.00
4	A	1241	ARG	NE-CZ-NH2	10.67	128.80	119.20
7	E	9	ILE	CA-C-O	-10.67	110.27	120.30
11	J	2	ILE	N-CA-C	10.67	131.53	109.34
4	A	1161	THR	O-C-N	10.67	135.09	123.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	236	HIS	N-CA-C	-10.67	91.11	108.07
10	I	108	HIS	CA-C-N	-10.67	108.16	122.99
10	I	108	HIS	C-N-CA	-10.67	108.16	122.99
5	B	423	LYS	N-CA-C	10.66	122.59	110.97
11	J	49	MET	N-CA-C	10.66	122.98	111.36
4	A	1004	ASN	N-CA-C	10.66	125.28	110.35
4	A	576	GLN	CA-C-N	-10.66	103.16	120.64
4	A	576	GLN	C-N-CA	-10.66	103.16	120.64
4	A	247	ARG	NE-CZ-NH2	-10.65	109.61	119.20
11	J	24	LEU	CA-C-N	-10.65	102.92	120.71
11	J	24	LEU	C-N-CA	-10.65	102.92	120.71
5	B	112	LEU	N-CA-C	10.65	127.85	109.96
10	I	82	GLU	N-CA-C	10.64	126.65	108.02
4	A	612	ILE	CA-C-N	-10.64	111.60	122.77
4	A	612	ILE	C-N-CA	-10.64	111.60	122.77
5	B	127	GLY	CA-C-O	10.63	130.60	120.92
5	B	202	TYR	N-CA-C	10.63	125.77	110.14
5	B	1172	ILE	N-CA-CB	-10.63	93.69	111.23
7	E	138	ALA	N-CA-C	10.63	133.44	110.80
4	A	1424	VAL	N-CA-C	-10.63	99.18	110.23
5	B	1180	PHE	N-CA-CB	-10.63	92.53	110.49
12	K	17	SER	CA-CB-OG	10.62	132.34	111.10
9	H	110	ASP	N-CA-C	10.62	133.41	110.80
10	I	6	PHE	CA-C-N	-10.61	105.86	120.82
10	I	6	PHE	C-N-CA	-10.61	105.86	120.82
10	I	72	ASP	CA-C-N	-10.61	111.58	123.04
10	I	72	ASP	C-N-CA	-10.61	111.58	123.04
5	B	799	PRO	O-C-N	10.61	136.96	122.64
5	B	887	HIS	CA-CB-CG	10.61	124.41	113.80
10	I	24	ARG	CA-C-N	-10.60	107.56	122.93
10	I	24	ARG	C-N-CA	-10.60	107.56	122.93
4	A	1035	TYR	O-C-N	10.60	135.58	123.28
4	A	183	GLY	N-CA-C	10.60	138.30	113.18
5	B	1094	ARG	NE-CZ-NH1	-10.60	110.90	121.50
5	B	431	TYR	CB-CA-C	10.59	131.50	110.42
4	A	586	ILE	N-CA-C	10.59	123.04	107.37
6	C	243	VAL	CA-C-N	-10.58	102.92	121.97
6	C	243	VAL	C-N-CA	-10.58	102.92	121.97
4	A	1039	LYS	CA-C-N	-10.58	103.75	120.88
4	A	1039	LYS	C-N-CA	-10.58	103.75	120.88
5	B	368	GLU	CA-CB-CG	10.57	135.25	114.10
4	A	620	LYS	CG-CD-CE	10.57	135.61	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	C	191	TYR	CA-C-N	-10.57	106.22	122.81
6	C	191	TYR	C-N-CA	-10.57	106.22	122.81
7	E	73	PRO	CA-N-CD	-10.57	97.21	112.00
12	K	31	VAL	N-CA-CB	-10.57	92.16	111.92
13	L	27	LEU	N-CA-C	10.57	125.90	109.52
5	B	864	LYS	CA-C-O	-10.56	105.41	120.51
4	A	52	GLY	CA-C-O	-10.56	102.20	120.57
6	C	167	HIS	CB-CA-C	10.55	129.95	110.95
4	A	1003	LYS	CB-CG-CD	10.55	135.57	111.30
4	A	1316	VAL	CB-CA-C	-10.55	99.38	110.88
5	B	39	ARG	N-CA-C	-10.55	98.93	112.23
5	B	552	MET	CB-CG-SD	-10.55	81.05	112.70
5	B	1096	ARG	N-CA-C	-10.55	97.11	110.19
4	A	920	LEU	N-CA-C	-10.55	88.33	110.80
4	A	884	ASP	N-CA-C	10.54	126.34	113.38
5	B	616	ILE	CB-CA-C	-10.54	95.80	110.77
4	A	1172	LEU	N-CA-C	10.54	133.25	110.80
4	A	937	VAL	CA-C-O	-10.54	109.35	121.05
5	B	50	SER	CB-CA-C	-10.54	93.95	110.81
4	A	5	GLN	N-CA-C	10.54	133.24	110.80
5	B	950	ASP	N-CA-C	-10.52	99.25	112.72
4	A	676	MET	CG-SD-CE	10.52	124.04	100.90
4	A	173	THR	N-CA-C	-10.52	93.16	109.25
4	A	780	VAL	N-CA-C	10.52	131.21	109.34
5	B	483	LEU	CB-CG-CD2	10.52	142.25	110.70
4	A	1121	GLU	CA-C-N	10.51	132.98	119.84
4	A	1121	GLU	C-N-CA	10.51	132.98	119.84
5	B	596	LEU	N-CA-C	10.51	122.82	111.36
4	A	361	LEU	CA-C-N	-10.51	107.52	123.17
4	A	361	LEU	C-N-CA	-10.51	107.52	123.17
5	B	416	LEU	CA-C-N	-10.50	105.38	120.29
5	B	416	LEU	C-N-CA	-10.50	105.38	120.29
7	E	80	VAL	N-CA-C	-10.50	96.03	109.58
12	K	42	LEU	CA-CB-CG	10.50	153.04	116.30
11	J	13	VAL	CB-CA-C	-10.50	94.08	111.29
5	B	757	PRO	CA-C-N	-10.49	113.03	123.10
5	B	757	PRO	C-N-CA	-10.49	113.03	123.10
5	B	872	GLU	CA-C-N	-10.49	103.80	121.64
5	B	872	GLU	C-N-CA	-10.49	103.80	121.64
5	B	1173	ALA	CA-C-N	-10.49	106.34	122.08
5	B	1173	ALA	C-N-CA	-10.49	106.34	122.08
5	B	469	GLN	CA-C-N	10.49	141.57	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	469	GLN	C-N-CA	10.49	141.57	121.54
5	B	902	GLY	CA-C-N	-10.49	107.19	121.66
5	B	902	GLY	C-N-CA	-10.49	107.19	121.66
9	H	133	ASN	N-CA-C	10.48	130.34	114.09
7	E	82	PHE	CA-C-O	10.48	132.44	120.60
10	I	66	PRO	CA-C-O	10.48	130.62	118.68
5	B	393	LYS	N-CA-C	10.46	126.46	109.40
5	B	322	PHE	N-CA-CB	10.46	128.17	110.49
7	E	58	MET	CB-CG-SD	10.46	144.08	112.70
4	A	1380	GLY	CA-C-O	10.46	132.96	121.67
5	B	937	ALA	CA-C-N	-10.45	103.70	121.89
5	B	937	ALA	C-N-CA	-10.45	103.70	121.89
4	A	410	GLY	CA-C-N	10.45	135.55	120.71
4	A	410	GLY	C-N-CA	10.45	135.55	120.71
5	B	757	PRO	N-CA-CB	-10.45	94.68	103.36
4	A	344	ARG	N-CA-C	-10.45	94.22	110.42
9	H	12	VAL	CA-C-N	10.45	136.56	120.89
9	H	12	VAL	C-N-CA	10.45	136.56	120.89
12	K	21	ILE	CB-CA-C	-10.45	98.30	110.73
4	A	719	VAL	CB-CA-C	-10.45	96.80	112.05
8	F	106	PRO	CB-CA-C	10.44	124.63	110.95
5	B	316	PRO	CA-CB-CG	-10.44	84.67	104.50
5	B	274	PRO	CA-C-N	-10.42	101.64	121.54
5	B	274	PRO	C-N-CA	-10.42	101.64	121.54
5	B	1096	ARG	CA-C-O	-10.42	111.07	122.01
10	I	10	CYS	CB-CA-C	-10.42	89.69	110.42
13	L	39	SER	N-CA-C	-10.42	88.61	110.80
5	B	305	VAL	CB-CA-C	10.41	124.16	112.19
1	R	5	A	C2'-C3'-O3'	10.41	129.31	113.70
5	B	461	LEU	CA-CB-CG	-10.40	79.90	116.30
6	C	232	VAL	CB-CA-C	10.40	126.61	110.81
11	J	55	ASP	CA-CB-CG	10.39	122.99	112.60
4	A	144	THR	CB-CA-C	-10.38	94.50	110.90
6	C	16	ASP	N-CA-C	10.38	129.18	113.61
6	C	24	ASN	N-CA-C	10.38	125.72	111.39
9	H	106	GLU	CB-CG-CD	10.38	130.25	112.60
4	A	876	ALA	CA-C-N	-10.38	105.42	122.65
4	A	876	ALA	C-N-CA	-10.38	105.42	122.65
4	A	326	ARG	CA-C-O	-10.38	109.91	120.80
4	A	399	HIS	N-CA-C	10.38	132.74	109.81
5	B	436	VAL	CB-CA-C	10.37	128.30	111.29
6	C	50	GLU	CA-C-N	-10.37	108.57	122.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	C	50	GLU	C-N-CA	-10.37	108.57	122.99
5	B	476	ARG	CA-CB-CG	10.37	134.84	114.10
7	E	136	ASN	N-CA-C	10.37	126.25	109.76
4	A	1406	VAL	CB-CA-C	10.36	128.29	111.29
4	A	73	GLY	CA-C-N	-10.36	101.75	121.54
4	A	73	GLY	C-N-CA	-10.36	101.75	121.54
4	A	763	ALA	O-C-N	10.36	129.24	121.47
6	C	231	ASN	CA-C-N	-10.36	109.73	123.10
6	C	231	ASN	C-N-CA	-10.36	109.73	123.10
5	B	1144	ALA	N-CA-C	10.36	132.86	110.80
5	B	1156	ASP	CA-C-O	-10.36	109.88	121.07
10	I	49	ILE	N-CA-C	-10.36	89.26	107.18
5	B	175	ARG	NE-CZ-NH2	10.36	128.52	119.20
4	A	236	LEU	O-C-N	10.35	136.27	122.82
4	A	1107	VAL	O-C-N	10.35	135.50	122.57
4	A	963	ILE	CA-C-N	-10.33	107.33	120.56
4	A	963	ILE	C-N-CA	-10.33	107.33	120.56
5	B	431	TYR	CA-CB-CG	10.33	132.50	113.90
5	B	372	SER	N-CA-C	-10.33	99.94	112.54
4	A	844	ALA	CA-C-N	-10.32	107.02	120.65
4	A	844	ALA	C-N-CA	-10.32	107.02	120.65
5	B	231	PRO	N-CA-C	10.30	133.69	112.47
4	A	319	GLY	CA-C-O	-10.29	102.66	120.57
4	A	955	PRO	CB-CA-C	-10.29	97.52	111.21
5	B	501	PRO	CA-C-O	-10.29	107.49	122.31
6	C	221	TYR	OH-CZ-CE2	10.29	150.77	119.90
4	A	659	HIS	N-CA-C	10.29	125.72	112.34
5	B	276	ILE	CA-C-O	10.29	132.71	120.67
4	A	1188	GLN	CA-C-N	-10.29	105.46	121.92
4	A	1188	GLN	C-N-CA	-10.29	105.46	121.92
4	A	978	PRO	CA-N-CD	-10.29	97.60	112.00
6	C	84	ARG	NE-CZ-NH1	-10.26	111.24	121.50
6	C	192	TRP	CA-CB-CG	10.26	133.10	113.60
7	E	127	ILE	CA-C-N	-10.26	109.81	120.38
7	E	127	ILE	C-N-CA	-10.26	109.81	120.38
4	A	93	VAL	CB-CA-C	-10.25	94.47	111.29
4	A	668	ASP	CA-C-N	-10.25	104.73	122.36
4	A	668	ASP	C-N-CA	-10.25	104.73	122.36
4	A	1146	VAL	CB-CA-C	-10.25	100.99	110.63
4	A	926	GLN	O-C-N	10.25	135.66	122.33
5	B	1100	ASP	CB-CA-C	10.25	131.95	110.32
6	C	197	SER	CA-C-N	-10.25	106.30	121.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	C	197	SER	C-N-CA	-10.25	106.30	121.98
11	J	52	THR	N-CA-C	10.24	124.45	111.24
5	B	1194	ILE	CA-C-N	-10.24	105.68	121.86
5	B	1194	ILE	C-N-CA	-10.24	105.68	121.86
7	E	181	ALA	N-CA-C	10.24	125.03	112.54
7	E	184	VAL	CB-CA-C	10.24	121.17	111.44
4	A	262	LEU	CA-C-N	-10.24	106.71	120.63
4	A	262	LEU	C-N-CA	-10.24	106.71	120.63
5	B	723	VAL	N-CA-C	10.24	130.63	109.34
4	A	1350	LYS	CB-CG-CD	10.23	134.83	111.30
4	A	309	ALA	N-CA-CB	-10.22	93.21	110.49
4	A	1435	PRO	CA-CB-CG	-10.22	85.08	104.50
5	B	283	VAL	CA-C-N	-10.22	103.57	121.97
5	B	283	VAL	C-N-CA	-10.22	103.57	121.97
11	J	26	GLN	N-CA-C	10.22	125.28	113.01
4	A	1419	ASP	CA-C-N	10.21	134.99	120.79
4	A	1419	ASP	C-N-CA	10.21	134.99	120.79
5	B	459	TYR	CA-C-N	-10.21	106.55	120.44
5	B	459	TYR	C-N-CA	-10.21	106.55	120.44
7	E	119	SER	CA-CB-OG	10.21	131.52	111.10
5	B	384	ARG	N-CA-CB	10.21	125.41	110.20
6	C	55	THR	CB-CA-C	-10.20	92.21	110.37
6	C	120	ILE	N-CA-C	10.20	122.70	108.93
4	A	595	THR	CA-C-O	-10.20	109.51	121.44
5	B	646	LEU	CD1-CG-CD2	-10.20	88.36	110.80
5	B	487	THR	CB-CA-C	-10.19	95.36	110.24
9	H	33	GLN	N-CA-C	10.19	123.83	109.15
10	I	34	TYR	CA-C-N	-10.19	108.22	122.69
10	I	34	TYR	C-N-CA	-10.19	108.22	122.69
5	B	880	THR	N-CA-CB	-10.19	93.27	110.49
4	A	203	SER	N-CA-C	-10.18	94.62	109.59
9	H	121	LEU	N-CA-C	-10.18	94.69	109.96
5	B	876	LYS	N-CA-C	-10.18	89.71	108.85
5	B	294	ASP	CA-C-N	-10.18	101.46	121.41
5	B	294	ASP	C-N-CA	-10.18	101.46	121.41
5	B	69	LEU	CA-C-N	10.18	140.02	121.70
5	B	69	LEU	C-N-CA	10.18	140.02	121.70
5	B	398	ARG	NE-CZ-NH2	-10.17	110.04	119.20
5	B	187	SER	CB-CA-C	10.17	128.14	110.85
5	B	740	HIS	CB-CG-ND1	-10.17	107.44	122.70
4	A	980	ASP	CB-CG-OD1	-10.16	95.03	118.40
5	B	472	ALA	N-CA-CB	10.15	127.65	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	198	ASP	N-CA-C	-10.15	96.19	110.50
4	A	40	THR	N-CA-C	-10.14	98.23	112.13
5	B	523	CYS	CA-C-N	10.14	129.94	119.19
5	B	523	CYS	C-N-CA	10.14	129.94	119.19
11	J	39	LEU	CA-C-N	-10.14	111.73	123.08
11	J	39	LEU	C-N-CA	-10.14	111.73	123.08
4	A	658	LEU	CB-CG-CD2	-10.13	80.30	110.70
5	B	25	ILE	CA-C-N	-10.13	106.82	122.62
5	B	25	ILE	C-N-CA	-10.13	106.82	122.62
7	E	3	GLN	N-CA-CB	10.13	127.61	110.49
5	B	1099	VAL	CA-C-O	10.13	131.59	120.85
10	I	42	LEU	CA-C-N	-10.12	103.75	121.97
10	I	42	LEU	C-N-CA	-10.12	103.75	121.97
4	A	734	GLU	CA-C-N	-10.12	107.61	120.56
4	A	734	GLU	C-N-CA	-10.12	107.61	120.56
10	I	60	GLN	CB-CG-CD	10.12	129.81	112.60
8	F	79	ARG	O-C-N	10.12	135.25	123.41
5	B	230	ALA	N-CA-C	10.11	132.15	109.81
8	F	144	GLU	CA-C-N	-10.11	105.07	120.94
8	F	144	GLU	C-N-CA	-10.11	105.07	120.94
5	B	1158	PHE	CA-C-N	-10.11	107.59	122.65
5	B	1158	PHE	C-N-CA	-10.11	107.59	122.65
5	B	463	THR	CA-C-N	-10.10	101.61	121.41
5	B	463	THR	C-N-CA	-10.10	101.61	121.41
5	B	936	ASP	CB-CA-C	-10.10	92.46	109.53
6	C	69	LEU	N-CA-C	10.10	125.34	112.92
4	A	1343	ALA	CA-C-N	-10.09	108.72	120.03
4	A	1343	ALA	C-N-CA	-10.09	108.72	120.03
5	B	1220	ARG	CG-CD-NE	10.09	134.20	112.00
9	H	130	ARG	CB-CA-C	-10.09	90.34	110.42
5	B	1135	ARG	CB-CA-C	-10.09	94.09	110.84
4	A	829	VAL	CB-CA-C	10.08	121.02	111.44
5	B	1157	ALA	CA-C-N	-10.08	102.29	121.54
5	B	1157	ALA	C-N-CA	-10.08	102.29	121.54
7	E	3	GLN	CA-CB-CG	10.08	134.26	114.10
4	A	144	THR	CA-C-O	-10.08	110.32	120.70
5	B	221	ASN	CA-C-O	10.07	133.47	120.98
5	B	431	TYR	CA-C-O	-10.07	106.11	120.51
5	B	470	LYS	CA-C-N	10.06	140.76	121.54
5	B	470	LYS	C-N-CA	10.06	140.76	121.54
4	A	59	GLY	CA-C-N	-10.06	102.32	121.54
4	A	59	GLY	C-N-CA	-10.06	102.32	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	204	ILE	CB-CA-C	-10.06	94.79	111.29
9	H	16	ASP	N-CA-C	10.06	130.40	108.66
4	A	315	LEU	CA-CB-CG	10.06	151.50	116.30
4	A	906	HIS	N-CA-C	10.06	124.78	113.21
4	A	1055	ARG	CB-CG-CD	10.06	134.43	111.30
4	A	253	ASN	O-C-N	10.05	135.96	122.59
4	A	47	ARG	CA-C-O	10.05	131.11	120.36
4	A	899	VAL	CA-C-N	10.05	139.01	122.73
4	A	899	VAL	C-N-CA	10.05	139.01	122.73
7	E	158	SER	CA-CB-OG	10.05	131.19	111.10
10	I	31	THR	N-CA-CB	10.04	125.79	110.42
10	I	110	PHE	CA-C-N	-10.04	106.82	122.59
10	I	110	PHE	C-N-CA	-10.04	106.82	122.59
4	A	664	THR	CA-C-N	10.04	131.40	122.47
4	A	664	THR	C-N-CA	10.04	131.40	122.47
4	A	372	LYS	CA-CB-CG	10.03	134.17	114.10
4	A	1311	VAL	N-CA-C	10.04	124.10	107.24
6	C	21	ILE	CA-C-N	-10.03	107.54	122.39
6	C	21	ILE	C-N-CA	-10.03	107.54	122.39
6	C	21	ILE	N-CA-C	-10.03	93.60	108.45
4	A	152	VAL	O-C-N	10.03	132.53	121.10
10	I	75	CYS	CA-C-N	10.03	132.37	119.84
10	I	75	CYS	C-N-CA	10.03	132.37	119.84
4	A	237	THR	O-C-N	10.02	135.92	122.59
5	B	692	TYR	CA-C-N	-10.02	108.58	122.91
5	B	692	TYR	C-N-CA	-10.02	108.58	122.91
5	B	372	SER	CA-CB-OG	10.02	131.14	111.10
4	A	153	PRO	N-CA-CB	-10.02	92.73	103.25
5	B	805	THR	CA-C-N	-10.02	106.33	122.36
5	B	805	THR	C-N-CA	-10.02	106.33	122.36
4	A	582	ILE	CA-C-O	10.02	127.68	119.47
1	R	7	A	P-O5'-C5'	-10.01	105.88	120.90
4	A	746	MET	N-CA-C	-10.01	101.19	113.50
9	H	110	ASP	N-CA-CB	-10.01	93.57	110.49
10	I	96	SER	N-CA-C	10.01	124.98	109.96
11	J	6	ARG	NE-CZ-NH2	-10.01	110.19	119.20
12	K	54	ARG	CA-CB-CG	10.01	134.11	114.10
13	L	46	VAL	CB-CA-C	-10.00	94.89	111.29
10	I	14	LEU	CA-C-N	10.00	146.20	121.80
10	I	14	LEU	C-N-CA	10.00	146.20	121.80
4	A	253	ASN	N-CA-C	9.99	132.09	110.80
4	A	1121	GLU	CA-CB-CG	9.99	134.09	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	984	HIS	N-CA-CB	9.99	127.38	110.49
10	I	50	THR	CA-C-N	-9.99	104.29	122.38
10	I	50	THR	C-N-CA	-9.99	104.29	122.38
5	B	363	HIS	N-CA-C	-9.99	94.31	109.60
4	A	460	VAL	N-CA-C	9.99	122.79	109.21
4	A	1047	SER	N-CA-C	9.99	132.07	110.80
5	B	787	VAL	CA-C-N	-9.98	107.05	122.62
5	B	787	VAL	C-N-CA	-9.98	107.05	122.62
5	B	610	ASN	CA-C-N	-9.98	109.48	119.56
5	B	610	ASN	C-N-CA	-9.98	109.48	119.56
12	K	15	GLY	O-C-N	9.98	135.68	122.70
5	B	1007	VAL	CA-C-N	-9.98	110.07	120.85
5	B	1007	VAL	C-N-CA	-9.98	110.07	120.85
5	B	1012	ILE	CB-CA-C	-9.98	96.81	111.68
4	A	1014	ALA	CA-C-O	9.98	131.68	119.31
4	A	1173	HIS	CA-C-N	9.98	140.59	121.54
4	A	1173	HIS	C-N-CA	9.98	140.59	121.54
4	A	639	PRO	N-CA-C	-9.97	100.50	113.57
4	A	1445	ILE	N-CA-CB	-9.97	94.55	111.50
1	R	5	A	C5'-C4'-C3'	9.97	130.95	116.00
4	A	935	GLN	CA-CB-CG	-9.97	94.17	114.10
4	A	103	CYS	N-CA-C	-9.96	98.48	112.13
4	A	1066	VAL	CA-C-N	-9.96	104.08	120.72
4	A	1066	VAL	C-N-CA	-9.96	104.08	120.72
5	B	55	VAL	CB-CA-C	-9.96	94.95	111.29
4	A	664	THR	CB-CA-C	-9.96	90.61	110.42
4	A	778	GLY	O-C-N	9.96	135.64	122.70
5	B	996	ARG	NE-CZ-NH2	-9.95	110.25	119.20
5	B	509	ALA	N-CA-C	9.95	138.85	111.00
1	R	8	G	OP2-P-O3'	9.94	137.82	108.00
11	J	52	THR	N-CA-CB	-9.94	95.45	110.07
4	A	650	GLN	CB-CG-CD	-9.94	95.70	112.60
5	B	591	ARG	CB-CG-CD	9.93	134.15	111.30
5	B	776	GLN	CA-C-O	9.93	129.28	118.65
5	B	880	THR	CA-C-O	9.93	134.71	120.51
8	F	74	ILE	CB-CA-C	-9.93	93.28	111.36
5	B	1017	ILE	O-C-N	9.93	132.42	121.10
4	A	24	PRO	CB-CA-C	9.93	129.00	112.62
12	K	14	GLU	N-CA-C	9.93	126.83	107.57
4	A	84	ILE	CA-C-N	9.93	134.82	120.82
4	A	84	ILE	C-N-CA	9.93	134.82	120.82
4	A	1314	SER	O-C-N	9.93	133.51	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	F	134	ILE	CB-CA-C	-9.93	96.17	111.26
7	E	81	GLU	N-CA-CB	9.92	128.12	110.95
4	A	1017	LEU	CD1-CG-CD2	-9.92	88.97	110.80
4	A	825	ILE	N-CA-C	9.92	119.92	110.30
4	A	23	SER	N-CA-C	-9.91	97.33	109.72
10	I	11	ASN	N-CA-CB	9.91	127.24	110.49
4	A	1219	THR	CA-C-O	9.91	134.68	120.51
5	B	745	PRO	N-CA-CB	-9.90	91.97	103.26
4	A	842	VAL	N-CA-C	9.90	125.87	113.00
5	B	1018	PRO	N-CA-CB	-9.90	92.86	103.25
4	A	596	THR	CB-CA-C	-9.90	90.72	110.42
4	A	1374	VAL	O-C-N	9.89	131.60	121.91
5	B	777	ALA	CA-C-N	-9.89	105.51	122.92
5	B	777	ALA	C-N-CA	-9.89	105.51	122.92
5	B	222	ILE	O-C-N	9.89	132.62	123.03
5	B	464	GLY	N-CA-C	-9.89	89.75	113.18
5	B	403	LYS	N-CA-C	-9.88	96.00	109.54
4	A	1311	VAL	CA-C-O	-9.88	110.63	120.31
9	H	45	GLU	N-CA-C	-9.88	100.04	113.18
5	B	833	TYR	N-CA-C	-9.88	98.02	111.55
10	I	119	THR	N-CA-C	9.88	125.65	113.50
13	L	60	ARG	N-CA-C	-9.87	89.77	110.80
4	A	50	ILE	N-CA-C	9.86	129.85	109.34
5	B	397	ASP	CA-C-N	-9.86	102.70	121.54
5	B	397	ASP	C-N-CA	-9.86	102.70	121.54
4	A	251	SER	CA-C-N	9.86	137.35	122.17
4	A	251	SER	C-N-CA	9.86	137.35	122.17
4	A	308	ILE	N-CA-C	9.85	120.79	110.05
5	B	219	ALA	CA-C-N	-9.85	112.05	122.69
5	B	219	ALA	C-N-CA	-9.85	112.05	122.69
9	H	30	SER	N-CA-CB	-9.85	93.84	110.49
5	B	780	VAL	CB-CA-C	-9.85	101.36	111.80
4	A	434	ARG	N-CA-C	9.85	124.11	109.24
4	A	612	ILE	N-CA-C	9.84	122.75	108.58
6	C	186	LEU	CB-CG-CD2	-9.84	81.18	110.70
6	C	171	GLY	CA-C-N	-9.84	107.54	119.84
6	C	171	GLY	C-N-CA	-9.84	107.54	119.84
8	F	105	ALA	CA-C-N	-9.84	110.29	120.03
8	F	105	ALA	C-N-CA	-9.84	110.29	120.03
12	K	35	PHE	CA-C-N	-9.83	105.25	122.07
12	K	35	PHE	C-N-CA	-9.83	105.25	122.07
4	A	33	ALA	CA-C-N	-9.82	102.78	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	33	ALA	C-N-CA	-9.82	102.78	121.54
5	B	107	GLY	O-C-N	9.82	134.91	123.61
5	B	1153	GLU	CA-C-N	-9.82	104.20	121.29
5	B	1153	GLU	C-N-CA	-9.82	104.20	121.29
12	K	113	THR	CA-C-N	9.82	139.38	121.70
12	K	113	THR	C-N-CA	9.82	139.38	121.70
4	A	1105	LEU	CA-C-O	9.82	131.26	119.97
5	B	1139	ILE	N-CA-C	-9.82	101.30	110.53
4	A	294	SER	CB-CA-C	9.82	124.56	109.34
9	H	45	GLU	CA-CB-CG	9.82	133.74	114.10
7	E	153	HIS	N-CA-C	-9.82	96.36	110.59
5	B	666	TYR	CA-C-O	-9.81	106.48	120.51
5	B	691	GLU	CA-C-N	-9.81	109.32	123.05
5	B	691	GLU	C-N-CA	-9.81	109.32	123.05
5	B	818	PRO	CB-CA-C	-9.81	95.38	111.56
4	A	1368	MET	CB-CG-SD	-9.80	83.30	112.70
4	A	635	ARG	N-CA-C	-9.80	101.43	113.97
4	A	904	THR	N-CA-CB	-9.80	93.93	110.49
7	E	62	ALA	O-C-N	9.80	134.38	122.92
6	C	119	VAL	N-CA-CB	-9.80	95.07	111.23
4	A	63	ARG	CA-C-N	9.79	137.13	122.93
4	A	63	ARG	C-N-CA	9.79	137.13	122.93
8	F	80	ALA	N-CA-CB	-9.79	93.95	110.49
4	A	968	GLN	N-CA-CB	9.78	127.02	110.49
7	E	151	PRO	CA-C-N	9.78	138.69	122.07
7	E	151	PRO	C-N-CA	9.78	138.69	122.07
7	E	176	PRO	N-CA-C	-9.78	95.84	111.19
6	C	102	GLN	CA-CB-CG	9.77	133.65	114.10
4	A	211	PHE	N-CA-C	-9.77	99.10	111.02
4	A	298	PHE	N-CA-C	9.76	121.61	110.97
5	B	132	VAL	CB-CA-C	-9.76	95.28	111.29
5	B	578	THR	CA-C-N	-9.76	105.19	121.39
5	B	578	THR	C-N-CA	-9.76	105.19	121.39
5	B	942	ARG	CB-CA-C	-9.76	91.00	110.42
12	K	18	LYS	CA-C-N	-9.76	105.75	122.92
12	K	18	LYS	C-N-CA	-9.76	105.75	122.92
5	B	981	ALA	CA-C-O	-9.75	106.57	120.51
6	C	117	ASP	CA-C-N	-9.75	102.74	121.06
6	C	117	ASP	C-N-CA	-9.75	102.74	121.06
4	A	943	LEU	CA-C-N	-9.74	104.95	120.63
4	A	943	LEU	C-N-CA	-9.74	104.95	120.63
6	C	31	ASN	CB-CA-C	-9.74	95.90	111.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	C	172	PRO	N-CA-C	-9.74	92.41	112.47
4	A	403	LYS	CD-CE-NZ	9.74	143.06	111.90
4	A	1012	ARG	CA-C-O	9.73	130.73	120.70
7	E	176	PRO	CB-CA-C	-9.73	98.27	111.21
7	E	162	ARG	CG-CD-NE	9.73	133.40	112.00
4	A	992	ASP	O-C-N	9.72	135.58	122.26
9	H	127	GLY	O-C-N	-9.72	110.06	122.70
12	K	77	THR	CA-C-N	9.72	134.60	120.90
12	K	77	THR	C-N-CA	9.72	134.60	120.90
4	A	843	LYS	CA-C-O	9.71	130.88	119.32
4	A	941	LYS	CD-CE-NZ	9.71	142.98	111.90
5	B	1170	THR	N-CA-C	-9.71	100.75	112.59
5	B	841	MET	N-CA-C	9.70	124.34	108.52
5	B	866	TYR	CA-CB-CG	9.70	131.37	113.90
5	B	252	SER	N-CA-CB	-9.70	96.80	111.64
4	A	566	ILE	N-CA-C	9.70	119.28	111.62
6	C	193	TYR	N-CA-C	9.69	121.03	108.34
5	B	849	GLY	CA-C-N	-9.69	107.57	121.42
5	B	849	GLY	C-N-CA	-9.69	107.57	121.42
6	C	249	ASP	N-CA-CB	-9.69	96.34	110.10
5	B	901	PRO	CA-CB-CG	-9.69	86.10	104.50
4	A	1038	THR	N-CA-C	-9.68	92.14	107.73
11	J	15	GLY	CA-C-N	-9.68	107.28	122.67
11	J	15	GLY	C-N-CA	-9.68	107.28	122.67
4	A	70	CYS	N-CA-C	9.68	121.59	111.14
4	A	144	THR	N-CA-CB	9.68	124.10	110.07
4	A	320	ARG	N-CA-CB	-9.68	93.15	110.37
4	A	685	GLU	CB-CG-CD	9.68	129.05	112.60
4	A	1293	SER	CB-CA-C	-9.67	94.60	109.11
5	B	791	THR	N-CA-C	-9.67	94.38	109.76
8	F	96	THR	N-CA-C	9.67	124.13	111.75
4	A	1344	GLY	N-CA-C	9.67	124.62	112.83
6	C	38	ILE	CB-CA-C	-9.67	95.44	111.29
4	A	367	PRO	O-C-N	9.66	136.00	123.05
5	B	699	GLU	N-CA-C	9.66	124.90	112.34
4	A	265	LYS	CG-CD-CE	9.66	133.52	111.30
5	B	698	GLU	N-CA-C	-9.65	100.62	111.82
6	C	8	VAL	N-CA-C	9.65	122.64	109.80
9	H	144	ILE	N-CA-C	9.65	123.09	108.71
10	I	9	ASP	CB-CA-C	9.65	129.63	110.42
4	A	1138	ILE	CA-C-O	9.65	129.99	120.73
5	B	449	ASN	CB-CA-C	-9.64	97.25	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	E	86	PRO	N-CA-CB	-9.64	93.12	103.25
5	B	758	PHE	N-CA-C	9.64	132.36	112.40
5	B	1211	ASN	CA-C-N	-9.63	108.23	122.68
5	B	1211	ASN	C-N-CA	-9.63	108.23	122.68
4	A	15	LYS	CD-CE-NZ	9.63	142.71	111.90
4	A	720	ARG	N-CA-CB	9.63	124.55	110.20
4	A	13	THR	N-CA-C	-9.62	95.08	109.81
5	B	1066	SER	N-CA-C	9.62	125.80	112.72
13	L	61	THR	CB-CA-C	-9.62	90.07	109.79
4	A	1309	ASP	CA-C-N	-9.62	104.27	121.67
4	A	1309	ASP	C-N-CA	-9.62	104.27	121.67
8	F	124	GLU	CB-CG-CD	-9.61	96.26	112.60
2	T	13	DA	C4'-C3'-O3'	9.61	124.41	110.00
6	C	196	ASP	N-CA-C	9.61	124.90	107.99
10	I	30	ARG	CA-C-O	9.60	132.67	119.80
5	B	479	VAL	N-CA-C	-9.60	89.37	109.34
6	C	82	TYR	N-CA-CB	9.60	126.01	110.16
5	B	633	VAL	N-CA-C	9.60	122.80	109.45
5	B	1208	MET	CG-SD-CE	-9.60	79.79	100.90
5	B	539	LEU	CA-C-N	9.60	134.92	120.82
5	B	539	LEU	C-N-CA	9.60	134.92	120.82
7	E	62	ALA	N-CA-C	9.60	121.98	108.74
4	A	441	PRO	CA-C-N	-9.59	110.03	123.17
4	A	441	PRO	C-N-CA	-9.59	110.03	123.17
4	A	1150	SER	CA-C-O	-9.59	110.01	120.36
5	B	483	LEU	N-CA-C	-9.59	90.38	110.80
5	B	180	TYR	CA-C-N	-9.58	106.08	122.56
5	B	180	TYR	C-N-CA	-9.58	106.08	122.56
5	B	661	LEU	N-CA-C	-9.57	101.60	113.28
5	B	757	PRO	CB-CA-C	9.57	122.31	111.11
4	A	1113	THR	N-CA-C	9.57	127.05	110.02
4	A	867	ILE	CA-C-N	-9.57	107.41	120.90
4	A	867	ILE	C-N-CA	-9.57	107.41	120.90
6	C	245	VAL	CB-CA-C	-9.57	99.85	111.81
12	K	33	ILE	CB-CA-C	-9.57	100.90	111.23
12	K	98	LEU	O-C-N	9.57	131.93	122.07
6	C	7	GLN	CB-CA-C	-9.56	95.41	110.14
7	E	152	LYS	CA-CB-CG	9.56	133.23	114.10
5	B	188	ASP	CA-C-N	-9.56	104.23	120.58
5	B	188	ASP	C-N-CA	-9.56	104.23	120.58
5	B	911	ILE	CA-CB-CG1	-9.56	94.15	110.40
5	B	1154	ALA	N-CA-C	-9.54	98.36	110.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	174	ILE	N-CA-C	9.54	122.71	109.55
5	B	498	THR	CB-CA-C	-9.54	91.44	110.42
5	B	759	PRO	N-CA-C	9.53	126.27	114.35
4	A	461	LYS	CA-C-N	-9.53	107.11	120.35
4	A	461	LYS	C-N-CA	-9.53	107.11	120.35
4	A	1391	ARG	CA-C-N	-9.53	103.34	121.54
4	A	1391	ARG	C-N-CA	-9.53	103.34	121.54
5	B	133	LYS	CA-CB-CG	9.53	133.16	114.10
8	F	127	GLU	N-CA-C	-9.53	89.03	108.18
13	L	49	LYS	CB-CG-CD	9.53	133.22	111.30
8	F	78	GLN	CA-C-O	9.53	132.74	121.40
5	B	980	PHE	CA-C-N	-9.52	103.35	121.54
5	B	980	PHE	C-N-CA	-9.52	103.35	121.54
5	B	354	ASP	O-C-N	9.52	131.34	120.58
4	A	251	SER	CA-CB-OG	9.52	130.13	111.10
4	A	628	GLY	N-CA-C	9.52	135.73	113.18
5	B	261	ARG	CA-C-O	-9.52	112.02	122.01
5	B	637	LEU	N-CA-CB	9.52	126.67	110.50
4	A	1270	ASN	N-CA-CB	9.51	124.65	110.95
10	I	8	ARG	CA-CB-CG	9.51	133.12	114.10
11	J	16	ASP	N-CA-C	-9.51	100.98	112.59
12	K	54	ARG	CD-NE-CZ	9.51	137.71	124.40
5	B	1221	SER	N-CA-C	9.50	131.04	110.80
5	B	332	ASP	O-C-N	9.50	135.22	122.59
4	A	704	ALA	O-C-N	9.50	133.70	123.06
5	B	1073	TYR	CA-C-N	-9.49	107.95	121.72
5	B	1073	TYR	C-N-CA	-9.49	107.95	121.72
4	A	993	LEU	N-CA-C	-9.49	98.37	112.04
5	B	1221	SER	CA-CB-OG	9.49	130.08	111.10
4	A	1294	PRO	CB-CA-C	-9.48	95.91	111.56
5	B	497	ARG	CG-CD-NE	-9.48	91.13	112.00
6	C	212	PRO	CA-C-N	-9.48	107.98	119.84
6	C	212	PRO	C-N-CA	-9.48	107.98	119.84
12	K	22	ASP	CA-C-N	-9.48	107.98	119.84
12	K	22	ASP	C-N-CA	-9.48	107.98	119.84
4	A	425	GLN	N-CA-C	-9.48	93.28	108.73
4	A	355	GLY	CA-C-O	-9.47	107.68	122.27
4	A	13	THR	N-CA-CB	-9.47	96.84	111.05
5	B	936	ASP	N-CA-C	-9.47	95.23	110.20
9	H	103	LYS	CA-C-N	9.47	137.16	123.14
9	H	103	LYS	C-N-CA	9.47	137.16	123.14
4	A	555	ASP	O-C-N	9.47	132.16	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	734	HIS	CA-CB-CG	9.47	123.27	113.80
5	B	169	ARG	CA-C-N	-9.46	111.78	122.00
5	B	169	ARG	C-N-CA	-9.46	111.78	122.00
5	B	372	SER	CA-C-N	-9.46	106.65	120.28
5	B	372	SER	C-N-CA	-9.46	106.65	120.28
5	B	935	ARG	CB-CG-CD	9.46	133.06	111.30
4	A	718	VAL	N-CA-C	9.46	119.50	110.42
7	E	120	ALA	N-CA-C	9.46	125.14	113.50
4	A	1285	MET	N-CA-C	-9.46	90.66	110.80
13	L	36	SER	CA-C-N	-9.45	106.86	122.17
13	L	36	SER	C-N-CA	-9.45	106.86	122.17
7	E	44	ALA	N-CA-C	-9.45	90.67	110.80
10	I	70	ARG	NE-CZ-NH1	-9.45	112.05	121.50
10	I	110	PHE	N-CA-C	9.45	123.22	109.14
5	B	411	PRO	CA-C-N	-9.45	104.39	122.53
5	B	411	PRO	C-N-CA	-9.45	104.39	122.53
9	H	95	TYR	CA-CB-CG	9.45	130.90	113.90
5	B	633	VAL	CA-C-N	-9.44	103.51	121.54
5	B	633	VAL	C-N-CA	-9.44	103.51	121.54
5	B	90	ILE	CA-C-N	-9.44	103.51	121.54
5	B	90	ILE	C-N-CA	-9.44	103.51	121.54
5	B	756	ILE	CA-C-N	-9.44	109.47	120.13
5	B	756	ILE	C-N-CA	-9.44	109.47	120.13
4	A	647	GLY	CA-C-N	-9.44	104.16	121.52
4	A	647	GLY	C-N-CA	-9.44	104.16	121.52
5	B	489	SER	N-CA-CB	9.44	126.44	110.49
13	L	41	SER	N-CA-C	9.44	124.11	108.73
4	A	330	LYS	CB-CA-C	-9.43	95.79	110.88
10	I	90	GLN	N-CA-C	-9.43	96.56	110.52
13	L	32	ALA	N-CA-C	9.43	123.29	111.69
10	I	20	LYS	O-C-N	9.43	135.13	122.59
13	L	25	ALA	CA-C-N	9.43	139.54	121.54
13	L	25	ALA	C-N-CA	9.43	139.54	121.54
9	H	91	ASP	CA-C-N	-9.42	106.36	122.56
9	H	91	ASP	C-N-CA	-9.42	106.36	122.56
4	A	26	GLU	N-CA-C	-9.42	100.58	111.03
6	C	35	ARG	CA-C-O	9.42	130.60	120.90
4	A	752	LYS	CB-CA-C	-9.41	92.91	109.86
4	A	1189	SER	N-CA-C	9.41	123.81	110.07
4	A	218	ASP	CA-CB-CG	9.41	122.01	112.60
4	A	1048	ASN	N-CA-CB	-9.41	94.58	110.49
9	H	82	PRO	CA-N-CD	-9.41	98.83	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	K	97	LYS	N-CA-C	-9.41	101.02	111.28
4	A	23	SER	CB-CA-C	9.41	123.09	109.08
4	A	249	SER	CA-C-O	-9.40	107.06	120.51
5	B	315	LYS	CA-C-N	-9.40	110.01	120.45
5	B	315	LYS	C-N-CA	-9.40	110.01	120.45
4	A	316	GLN	CA-C-O	9.40	129.48	121.02
7	E	150	VAL	CB-CA-C	-9.40	100.04	110.85
9	H	43	ASN	N-CA-C	9.40	130.81	110.80
10	I	116	ASN	CA-CB-CG	9.39	121.99	112.60
5	B	549	THR	CA-CB-OG1	-9.39	95.52	109.60
4	A	514	PRO	CB-CA-C	-9.39	96.07	111.56
5	B	478	GLY	CA-C-N	-9.39	105.07	121.97
5	B	478	GLY	C-N-CA	-9.39	105.07	121.97
7	E	45	LYS	CB-CG-CD	9.39	132.89	111.30
4	A	399	HIS	CB-CA-C	-9.38	91.69	110.17
4	A	1126	ALA	N-CA-C	9.38	126.26	111.81
6	C	189	THR	CB-CA-C	-9.38	90.28	110.45
4	A	265	LYS	CA-C-N	-9.37	103.64	121.54
4	A	265	LYS	C-N-CA	-9.37	103.64	121.54
7	E	196	VAL	CB-CA-C	-9.37	95.92	111.29
10	I	29	CYS	CA-CB-SG	9.37	135.96	114.40
4	A	1328	TYR	CA-C-O	9.37	131.84	120.60
8	F	83	PRO	CA-C-N	9.37	138.03	120.97
8	F	83	PRO	C-N-CA	9.37	138.03	120.97
9	H	114	VAL	N-CA-CB	9.37	128.21	112.47
5	B	907	GLY	CA-C-N	-9.37	107.40	122.95
5	B	907	GLY	C-N-CA	-9.37	107.40	122.95
5	B	275	TYR	CB-CA-C	9.36	129.05	110.42
5	B	290	GLY	CA-C-N	-9.36	105.81	121.63
5	B	290	GLY	C-N-CA	-9.36	105.81	121.63
4	A	129	LYS	CA-CB-CG	9.36	132.81	114.10
4	A	527	THR	CB-CA-C	-9.36	92.31	110.46
4	A	1328	TYR	N-CA-C	9.36	124.97	109.06
4	A	49	LYS	N-CA-CB	-9.35	94.68	110.49
9	H	91	ASP	N-CA-C	9.35	130.72	110.80
5	B	949	VAL	N-CA-C	9.35	124.56	109.78
4	A	505	CYS	N-CA-C	9.35	124.42	112.92
7	E	131	THR	O-C-N	9.35	135.02	122.59
4	A	1029	ARG	N-CA-CB	9.35	125.01	109.78
5	B	413	LEU	N-CA-C	-9.35	96.04	111.37
12	K	46	ILE	CA-C-N	-9.35	106.11	120.31
12	K	46	ILE	C-N-CA	-9.35	106.11	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	688	LYS	CB-CG-CD	9.34	132.79	111.30
5	B	227	LYS	N-CA-CB	9.34	125.64	110.41
5	B	646	LEU	CA-CB-CG	9.34	148.99	116.30
5	B	1174	LYS	N-CA-C	-9.34	97.70	110.68
4	A	316	GLN	CB-CA-C	9.34	126.55	111.24
4	A	527	THR	N-CA-C	-9.34	99.80	111.75
4	A	1000	LEU	CA-CB-CG	-9.34	83.62	116.30
13	L	66	GLN	CB-CA-C	9.34	125.32	110.19
4	A	893	PHE	N-CA-C	-9.34	100.47	112.23
4	A	106	VAL	CB-CA-C	-9.33	99.01	111.70
4	A	1343	ALA	N-CA-C	-9.33	100.21	111.69
6	C	36	VAL	N-CA-CB	-9.33	100.15	110.51
7	E	132	ILE	CA-C-N	-9.33	103.72	121.54
7	E	132	ILE	C-N-CA	-9.33	103.72	121.54
4	A	1214	GLU	N-CA-C	-9.33	101.16	112.54
4	A	981	LEU	CA-C-O	9.33	132.42	121.88
4	A	1117	THR	O-C-N	9.33	135.55	123.24
9	H	62	SER	N-CA-CB	-9.33	94.73	110.49
5	B	1009	ASP	CA-C-O	9.32	131.06	119.78
4	A	806	ARG	O-C-N	9.32	134.35	122.23
4	A	1127	ASP	N-CA-C	-9.31	90.96	110.80
5	B	1181	GLU	N-CA-C	9.31	130.63	110.80
6	C	83	SER	CB-CA-C	9.31	125.30	110.96
9	H	62	SER	O-C-N	9.31	134.97	122.59
7	E	34	GLU	CA-C-O	9.30	133.82	120.51
7	E	204	THR	O-C-N	9.31	135.57	122.36
13	L	38	LEU	N-CA-C	-9.30	97.51	110.35
4	A	1289	ARG	O-C-N	9.30	134.02	123.42
7	E	42	PHE	O-C-N	9.30	135.20	122.46
10	I	82	GLU	N-CA-CB	-9.30	95.96	110.65
8	F	144	GLU	N-CA-C	9.29	124.28	108.02
5	B	300	HIS	CA-CB-CG	-9.29	104.51	113.80
6	C	57	VAL	CB-CA-C	-9.29	99.40	112.22
5	B	470	LYS	CA-CB-CG	9.29	132.68	114.10
10	I	37	GLU	CA-CB-CG	9.29	132.67	114.10
5	B	934	LYS	N-CA-C	9.28	124.66	108.52
9	H	57	VAL	CB-CA-C	-9.28	96.08	111.29
4	A	569	LYS	CA-C-N	-9.27	108.25	119.84
4	A	569	LYS	C-N-CA	-9.27	108.25	119.84
4	A	632	VAL	CB-CA-C	-9.27	99.87	112.02
5	B	272	THR	CA-C-N	-9.27	99.17	121.80
5	B	272	THR	C-N-CA	-9.27	99.17	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	C	233	GLU	CB-CG-CD	9.27	128.37	112.60
10	I	65	ASP	N-CA-C	-9.27	96.55	109.71
4	A	7	SER	N-CA-C	-9.27	96.35	109.69
12	K	1	MET	CA-C-N	-9.26	106.24	122.26
12	K	1	MET	C-N-CA	-9.26	106.24	122.26
9	H	146	ARG	CG-CD-NE	9.26	132.37	112.00
6	C	222	LYS	O-C-N	9.26	132.52	122.34
4	A	1165	GLU	N-CA-C	-9.25	101.27	111.36
5	B	1104	HIS	N-CA-CB	-9.25	97.71	110.29
5	B	355	ILE	CA-C-N	-9.24	105.17	122.27
5	B	355	ILE	C-N-CA	-9.24	105.17	122.27
6	C	256	ALA	N-CA-CB	-9.24	94.86	110.49
13	L	67	PHE	CA-C-O	-9.24	110.71	121.16
5	B	635	ARG	CA-C-N	-9.24	108.29	119.84
5	B	635	ARG	C-N-CA	-9.24	108.29	119.84
6	C	120	ILE	CA-C-N	-9.24	106.50	120.82
6	C	120	ILE	C-N-CA	-9.24	106.50	120.82
4	A	252	PHE	O-C-N	9.24	132.76	121.95
4	A	618	GLU	N-CA-C	9.23	120.81	108.07
4	A	1017	LEU	CB-CG-CD1	9.23	138.40	110.70
5	B	660	LYS	CB-CA-C	-9.23	91.33	110.17
4	A	216	VAL	N-CA-C	-9.23	101.34	110.30
5	B	569	TYR	CA-C-O	9.23	130.44	120.38
5	B	581	PHE	CA-C-N	-9.23	111.05	123.14
5	B	581	PHE	C-N-CA	-9.23	111.05	123.14
10	I	27	PHE	CA-C-N	-9.23	103.91	121.54
10	I	27	PHE	C-N-CA	-9.23	103.91	121.54
4	A	176	LYS	N-CA-C	-9.23	94.22	109.07
5	B	367	LEU	CB-CG-CD2	9.23	138.38	110.70
5	B	423	LYS	CB-CA-C	-9.23	96.75	110.96
4	A	57	ARG	CA-CB-CG	9.22	132.55	114.10
9	H	86	ASP	N-CA-CB	9.22	130.27	111.36
5	B	226	PHE	CA-C-O	-9.22	108.94	120.28
4	A	727	ASP	O-C-N	9.21	133.60	122.27
4	A	527	THR	N-CA-CB	9.21	124.69	110.14
4	A	292	ALA	N-CA-C	9.21	124.17	111.55
5	B	477	ALA	O-C-N	-9.21	110.34	122.59
6	C	257	SER	CA-CB-OG	9.21	129.51	111.10
9	H	124	ARG	CB-CG-CD	9.21	132.48	111.30
5	B	42	GLY	CA-C-N	-9.21	107.35	122.54
5	B	42	GLY	C-N-CA	-9.21	107.35	122.54
4	A	914	GLU	CB-CA-C	-9.20	96.43	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	607	ILE	O-C-N	9.20	134.07	122.57
7	E	72	PHE	O-C-N	9.20	131.90	121.32
4	A	936	LEU	CA-C-N	-9.20	108.78	120.56
4	A	936	LEU	C-N-CA	-9.20	108.78	120.56
10	I	78	CYS	CA-C-O	-9.20	107.35	120.51
4	A	1342	GLU	CA-C-N	-9.20	104.85	120.58
4	A	1342	GLU	C-N-CA	-9.20	104.85	120.58
1	R	3	C	OP1-P-O3'	9.20	135.59	108.00
6	C	249	ASP	CB-CA-C	9.20	126.01	111.39
4	A	609	ASP	N-CA-C	-9.19	91.22	110.80
4	A	864	ILE	CB-CA-C	-9.19	101.90	110.91
5	B	209	GLU	O-C-N	-9.19	110.78	123.01
6	C	9	LYS	CB-CA-C	-9.19	94.17	109.80
5	B	733	HIS	CA-C-O	-9.19	109.41	119.97
4	A	1368	MET	CA-C-N	-9.19	104.00	121.54
4	A	1368	MET	C-N-CA	-9.19	104.00	121.54
4	A	113	LEU	CA-C-N	-9.18	109.49	123.17
4	A	113	LEU	C-N-CA	-9.18	109.49	123.17
5	B	411	PRO	CA-CB-CG	-9.18	87.06	104.50
7	E	177	ARG	O-C-N	9.18	133.40	123.03
4	A	210	ILE	O-C-N	9.18	134.04	122.57
4	A	254	GLU	CB-CA-C	9.18	128.68	110.42
5	B	61	ASP	CA-CB-CG	9.17	121.77	112.60
4	A	1302	PRO	CB-CA-C	9.17	123.47	110.17
8	F	72	LYS	O-C-N	9.17	137.67	123.00
5	B	609	ILE	CB-CA-C	-9.17	96.38	110.50
10	I	3	THR	CB-CA-C	-9.17	92.18	110.42
6	C	256	ALA	N-CA-C	9.16	130.32	110.80
8	F	109	VAL	N-CA-C	-9.16	90.28	109.34
4	A	620	LYS	CA-CB-CG	9.16	132.42	114.10
4	A	1300	LYS	CD-CE-NZ	9.16	141.21	111.90
6	C	144	ILE	CA-C-N	-9.16	106.15	122.45
6	C	144	ILE	C-N-CA	-9.16	106.15	122.45
5	B	323	VAL	N-CA-C	-9.16	104.00	112.43
4	A	725	ALA	N-CA-C	9.15	122.41	111.33
8	F	116	ASP	CA-C-N	-9.15	108.40	119.84
8	F	116	ASP	C-N-CA	-9.15	108.40	119.84
4	A	926	GLN	CA-C-N	9.15	132.14	120.70
4	A	926	GLN	C-N-CA	9.15	132.14	120.70
4	A	937	VAL	CB-CA-C	9.15	124.00	112.02
6	C	259	LEU	N-CA-CB	-9.14	96.63	110.26
9	H	34	ASP	CB-CA-C	9.14	128.22	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	T	17	DG	C4'-C3'-O3'	9.14	123.71	110.00
5	B	909	ASP	N-CA-C	9.14	123.72	110.10
9	H	145	ARG	CB-CG-CD	9.14	132.33	111.30
6	C	90	ASP	N-CA-C	9.14	130.27	110.80
5	B	744	HIS	CB-CA-C	9.14	128.18	110.17
4	A	998	LEU	CB-CG-CD2	9.14	138.11	110.70
5	B	243	ALA	O-C-N	9.14	131.63	123.41
4	A	95	PHE	N-CA-CB	-9.13	98.28	110.88
5	B	1157	ALA	N-CA-CB	9.13	125.76	111.24
6	C	182	PRO	CA-C-O	-9.13	106.79	120.03
4	A	811	GLN	N-CA-C	-9.13	101.28	111.14
7	E	73	PRO	CA-C-N	-9.13	104.10	121.54
7	E	73	PRO	C-N-CA	-9.13	104.10	121.54
9	H	23	VAL	O-C-N	9.13	133.98	122.57
6	C	119	VAL	CA-C-N	-9.12	107.45	120.77
6	C	119	VAL	C-N-CA	-9.12	107.45	120.77
13	L	37	LYS	CG-CD-CE	9.12	132.29	111.30
5	B	69	LEU	N-CA-CB	-9.12	95.57	110.43
4	A	291	GLU	CB-CG-CD	9.11	128.09	112.60
5	B	433	GLN	N-CA-C	-9.11	100.48	111.69
6	C	207	CYS	CA-C-N	9.11	132.29	120.44
6	C	207	CYS	C-N-CA	9.11	132.29	120.44
11	J	54	VAL	CB-CA-C	9.11	123.64	110.33
4	A	1004	ASN	CA-C-O	9.11	130.91	121.07
10	I	120	GLN	N-CA-C	9.11	136.51	111.00
5	B	518	HIS	CA-C-N	-9.11	106.64	120.94
5	B	518	HIS	C-N-CA	-9.11	106.64	120.94
5	B	983	ARG	NE-CZ-NH1	9.11	130.61	121.50
4	A	252	PHE	CB-CA-C	9.11	126.38	111.26
4	A	479	ASN	CB-CA-C	-9.11	92.30	110.42
5	B	1049	ASP	N-CA-C	9.11	123.95	113.02
7	E	74	ASP	N-CA-C	9.11	130.19	110.80
5	B	786	ASN	N-CA-CB	9.10	125.80	110.32
4	A	582	ILE	N-CA-CB	9.10	119.97	110.23
4	A	317	LYS	N-CA-C	9.10	130.17	110.80
4	A	1428	VAL	CB-CA-C	9.10	124.48	111.65
4	A	653	VAL	CB-CA-C	-9.09	98.07	112.16
5	B	868	MET	CG-SD-CE	9.09	120.91	100.90
4	A	559	VAL	CA-C-N	-9.09	105.31	122.13
4	A	559	VAL	C-N-CA	-9.09	105.31	122.13
7	E	63	ASN	CA-C-N	9.09	131.20	119.84
7	E	63	ASN	C-N-CA	9.09	131.20	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	1076	HIS	CA-C-O	9.09	130.05	120.42
4	A	970	THR	CB-CA-C	-9.09	94.20	110.37
4	A	201	VAL	N-CA-CB	-9.08	97.21	112.47
4	A	927	VAL	CA-CB-CG2	-9.08	94.97	110.40
5	B	511	PRO	CA-C-N	-9.08	106.56	122.26
5	B	511	PRO	C-N-CA	-9.08	106.56	122.26
4	A	1228	TRP	CB-CA-C	-9.07	90.36	111.95
5	B	334	ILE	O-C-N	9.07	133.90	122.57
5	B	223	VAL	N-CA-C	9.06	128.19	109.34
4	A	1392	SER	N-CA-CB	-9.06	95.18	110.49
4	A	670	ILE	N-CA-C	9.06	128.18	109.34
4	A	1237	ILE	CB-CA-C	-9.06	94.99	110.30
4	A	177	ASP	CB-CA-C	-9.05	96.95	110.62
4	A	790	ASP	N-CA-C	-9.05	99.06	111.28
10	I	8	ARG	O-C-N	-9.05	110.55	122.59
4	A	995	GLU	CB-CA-C	9.05	125.77	109.29
5	B	471	LYS	CA-C-O	-9.05	107.56	120.51
10	I	60	GLN	CA-C-N	-9.05	107.17	120.38
10	I	60	GLN	C-N-CA	-9.05	107.17	120.38
4	A	323	LYS	CB-CG-CD	9.05	132.11	111.30
5	B	58	THR	CB-CA-C	-9.05	92.42	110.42
5	B	880	THR	CB-CA-C	9.04	128.42	110.42
7	E	201	LYS	CG-CD-CE	9.05	132.11	111.30
7	E	10	SER	N-CA-CB	9.04	123.57	109.82
4	A	471	ASN	CA-C-N	-9.04	107.99	120.38
4	A	471	ASN	C-N-CA	-9.04	107.99	120.38
4	A	664	THR	OG1-CB-CG2	9.04	127.38	109.30
5	B	587	HIS	N-CA-CB	9.04	124.26	110.61
4	A	1066	VAL	CB-CA-C	-9.03	98.16	112.16
5	B	843	GLN	N-CA-C	-9.04	101.69	112.89
6	C	38	ILE	N-CA-C	9.04	128.13	109.34
9	H	85	GLY	O-C-N	9.04	134.45	122.70
12	K	25	THR	CA-C-O	9.03	130.00	120.70
4	A	992	ASP	CB-CA-C	-9.03	96.04	110.85
5	B	1117	GLN	CA-C-N	-9.03	110.25	119.92
5	B	1117	GLN	C-N-CA	-9.03	110.25	119.92
4	A	1176	LEU	CA-CB-CG	9.03	147.90	116.30
9	H	29	ALA	CA-C-N	9.02	138.77	121.54
9	H	29	ALA	C-N-CA	9.02	138.77	121.54
5	B	1090	THR	CA-C-N	-9.02	110.29	123.00
5	B	1090	THR	C-N-CA	-9.02	110.29	123.00
9	H	96	VAL	N-CA-C	9.02	120.62	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	765	VAL	CB-CA-C	-9.01	100.16	112.24
4	A	833	GLU	CB-CG-CD	9.01	127.92	112.60
5	B	1079	LYS	CA-C-N	-9.01	107.57	120.82
5	B	1079	LYS	C-N-CA	-9.01	107.57	120.82
5	B	213	ILE	N-CA-C	9.01	122.01	108.23
6	C	18	VAL	CA-C-N	-9.01	109.92	123.07
6	C	18	VAL	C-N-CA	-9.01	109.92	123.07
5	B	964	VAL	CA-C-N	-9.01	109.06	122.39
5	B	964	VAL	C-N-CA	-9.01	109.06	122.39
5	B	1099	VAL	O-C-N	9.01	131.11	121.83
10	I	2	THR	CB-CA-C	-9.01	89.29	109.10
4	A	409	SER	N-CA-CB	-9.00	95.27	110.49
5	B	900	ALA	CB-CA-C	9.00	122.69	109.09
8	F	99	LEU	CA-C-N	-9.00	106.63	120.31
8	F	99	LEU	C-N-CA	-9.00	106.63	120.31
5	B	94	LYS	CB-CG-CD	9.00	131.99	111.30
5	B	593	PRO	CA-N-CD	-9.00	99.41	112.00
7	E	205	SER	CA-CB-OG	8.99	129.09	111.10
4	A	316	GLN	O-C-N	8.99	131.08	122.18
4	A	593	GLU	CA-C-N	-8.99	103.79	121.41
4	A	593	GLU	C-N-CA	-8.99	103.79	121.41
4	A	866	PHE	N-CA-CB	-8.98	96.35	110.46
5	B	128	LEU	N-CA-CB	-8.98	95.57	110.39
7	E	26	ARG	NE-CZ-NH1	-8.98	112.52	121.50
5	B	879	ARG	O-C-N	8.98	134.53	122.59
5	B	882	THR	N-CA-C	8.98	126.10	111.37
7	E	167	ARG	NE-CZ-NH2	8.98	127.28	119.20
4	A	1438	THR	OG1-CB-CG2	8.97	127.25	109.30
5	B	371	GLU	CA-C-N	-8.97	105.73	120.72
5	B	371	GLU	C-N-CA	-8.97	105.73	120.72
4	A	781	ASP	N-CA-C	-8.97	102.28	113.23
4	A	1346	ALA	CA-C-N	-8.97	105.87	121.66
4	A	1346	ALA	C-N-CA	-8.97	105.87	121.66
13	L	53	HIS	N-CA-C	8.97	123.66	108.23
9	H	52	GLN	N-CA-C	-8.97	91.70	110.80
4	A	1100	ARG	CA-CB-CG	-8.96	96.18	114.10
5	B	795	ILE	CB-CA-C	-8.96	96.35	110.69
5	B	131	ASP	N-CA-CB	-8.96	92.99	111.36
5	B	1153	GLU	CB-CA-C	8.96	125.84	110.79
4	A	338	GLY	CA-C-N	-8.95	107.85	122.08
4	A	338	GLY	C-N-CA	-8.95	107.85	122.08
4	A	805	LEU	CA-C-N	-8.95	105.27	120.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	805	LEU	C-N-CA	-8.95	105.27	120.58
7	E	43	LYS	N-CA-CB	-8.95	95.36	110.49
5	B	1122	ARG	CA-C-O	8.95	130.56	119.11
12	K	17	SER	CA-C-N	-8.95	108.84	120.65
12	K	17	SER	C-N-CA	-8.95	108.84	120.65
5	B	637	LEU	CB-CA-C	8.94	127.09	110.10
8	F	119	ARG	CB-CG-CD	8.94	131.86	111.30
10	I	71	SER	CB-CA-C	-8.94	94.98	110.45
10	I	98	VAL	CB-CA-C	-8.94	99.29	111.63
12	K	56	VAL	CB-CA-C	-8.94	98.73	110.98
4	A	779	PHE	N-CA-C	-8.94	98.73	110.53
5	B	1147	LEU	CB-CA-C	-8.94	92.64	110.42
4	A	1285	MET	CA-CB-CG	8.94	131.97	114.10
5	B	1217	TYR	CE1-CZ-OH	-8.94	93.09	119.90
7	E	116	ILE	CA-C-O	-8.94	109.61	120.78
4	A	204	THR	N-CA-CB	-8.93	95.40	110.49
5	B	765	PRO	CA-C-N	-8.93	108.30	120.44
5	B	765	PRO	C-N-CA	-8.93	108.30	120.44
4	A	879	GLU	N-CA-C	8.93	122.86	108.76
9	H	109	LYS	CB-CG-CD	8.93	131.83	111.30
4	A	81	PHE	N-CA-C	8.92	124.30	110.20
6	C	226	ASP	N-CA-C	-8.92	95.40	109.50
4	A	59	GLY	O-C-N	-8.92	111.10	122.70
4	A	563	PRO	N-CD-CG	-8.92	89.82	103.20
8	F	136	ARG	N-CA-C	8.92	123.68	110.30
9	H	99	GLY	N-CA-C	8.92	129.46	112.51
4	A	946	VAL	CA-C-O	8.91	130.62	121.17
11	J	37	SER	CA-C-N	-8.91	107.36	120.38
11	J	37	SER	C-N-CA	-8.91	107.36	120.38
4	A	525	GLN	CA-C-N	-8.91	108.86	120.44
4	A	525	GLN	C-N-CA	-8.91	108.86	120.44
4	A	766	GLY	N-CA-C	8.91	134.30	113.18
5	B	393	LYS	CA-C-O	8.91	130.32	120.70
4	A	550	LEU	CB-CG-CD2	8.91	137.42	110.70
4	A	977	LYS	CB-CA-C	8.91	123.76	109.51
5	B	358	LYS	N-CA-C	8.91	121.07	111.36
7	E	179	GLN	N-CA-CB	-8.91	96.35	110.69
5	B	621	GLU	N-CA-C	-8.90	100.25	113.61
5	B	772	ALA	N-CA-C	-8.90	102.14	113.72
5	B	218	SER	CA-C-N	-8.90	104.33	121.06
5	B	218	SER	C-N-CA	-8.90	104.33	121.06
5	B	1018	PRO	CB-CA-C	-8.90	96.87	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	1022	THR	N-CA-CB	-8.90	99.24	110.45
4	A	755	PHE	CA-C-O	8.89	130.14	120.80
5	B	680	THR	CB-CA-C	-8.89	93.70	109.71
10	I	50	THR	N-CA-C	8.89	123.40	108.90
4	A	1034	GLU	CA-CB-CG	8.89	131.88	114.10
7	E	189	GLY	CA-C-N	-8.89	106.63	121.39
7	E	189	GLY	C-N-CA	-8.89	106.63	121.39
7	E	110	PHE	N-CA-C	8.89	123.52	109.39
4	A	857	ARG	NH1-CZ-NH2	8.88	130.85	119.30
4	A	1387	HIS	O-C-N	8.89	131.98	122.38
4	A	620	LYS	CD-CE-NZ	8.88	140.32	111.90
4	A	1285	MET	CA-C-N	8.88	138.38	122.31
4	A	1285	MET	C-N-CA	8.88	138.38	122.31
12	K	70	ARG	NE-CZ-NH1	-8.88	112.62	121.50
7	E	58	MET	O-C-N	8.88	134.40	122.59
10	I	66	PRO	CA-C-N	-8.88	107.89	122.54
10	I	66	PRO	C-N-CA	-8.88	107.89	122.54
4	A	847	ASP	CB-CG-OD2	8.87	138.81	118.40
5	B	609	ILE	N-CA-C	-8.87	95.24	108.46
4	A	1312	ASN	N-CA-CB	8.87	124.66	110.65
5	B	266	ALA	CA-C-O	8.87	133.19	120.51
7	E	66	GLU	CA-C-N	8.87	136.16	122.42
7	E	66	GLU	C-N-CA	8.87	136.16	122.42
6	C	233	GLU	N-CA-C	-8.86	95.33	109.59
4	A	845	LEU	N-CA-C	8.86	120.62	110.97
4	A	913	LEU	CA-C-N	8.86	131.95	120.44
4	A	913	LEU	C-N-CA	8.86	131.95	120.44
4	A	1096	SER	N-CA-C	8.85	122.53	109.07
6	C	46	ILE	CB-CA-C	-8.85	101.70	111.35
5	B	1188	LYS	CA-C-N	-8.85	112.31	122.14
5	B	1188	LYS	C-N-CA	-8.85	112.31	122.14
2	T	23	DC	C5'-C4'-O4'	8.85	122.67	109.40
4	A	1108	ALA	N-CA-CB	-8.85	95.54	110.49
11	J	63	TYR	N-CA-C	-8.85	95.34	109.59
4	A	1377	THR	N-CA-C	8.85	125.30	113.97
4	A	994	GLN	CA-C-N	-8.85	106.62	121.92
4	A	994	GLN	C-N-CA	-8.85	106.62	121.92
8	F	139	PRO	CB-CA-C	8.85	119.91	110.00
12	K	55	LYS	CD-CE-NZ	8.85	140.20	111.90
5	B	393	LYS	CG-CD-CE	8.84	131.63	111.30
5	B	1121	GLY	CA-C-N	-8.84	104.34	121.58
5	B	1121	GLY	C-N-CA	-8.84	104.34	121.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	114	PRO	CA-C-N	-8.84	107.14	121.19
5	B	114	PRO	C-N-CA	-8.84	107.14	121.19
5	B	277	LYS	CA-CB-CG	8.84	131.77	114.10
4	A	176	LYS	O-C-N	8.83	133.71	123.29
5	B	573	GLN	CA-CB-CG	8.83	131.77	114.10
4	A	205	GLU	N-CA-C	8.83	123.05	111.75
9	H	112	ILE	CA-CB-CG2	8.83	125.50	110.50
12	K	70	ARG	CA-C-N	-8.83	104.68	121.54
12	K	70	ARG	C-N-CA	-8.83	104.68	121.54
4	A	960	ILE	CA-C-N	-8.82	106.42	120.63
4	A	960	ILE	C-N-CA	-8.82	106.42	120.63
5	B	381	MET	CA-C-O	8.82	130.09	120.82
7	E	83	CYS	CA-C-O	8.82	131.12	120.62
4	A	1376	THR	N-CA-CB	-8.82	97.78	110.57
4	A	1406	VAL	N-CA-CB	-8.82	96.68	111.23
5	B	406	LEU	CA-C-N	-8.82	111.38	122.84
5	B	406	LEU	C-N-CA	-8.82	111.38	122.84
10	I	61	ASP	CB-CA-C	8.82	127.57	110.46
4	A	982	THR	N-CA-CB	-8.81	95.87	110.68
6	C	104	PHE	CA-C-N	-8.81	111.32	120.31
6	C	104	PHE	C-N-CA	-8.81	111.32	120.31
13	L	30	ILE	CA-C-N	-8.81	104.31	122.03
13	L	30	ILE	C-N-CA	-8.81	104.31	122.03
7	E	168	TYR	N-CA-CB	8.81	125.38	110.49
5	B	1115	THR	CB-CA-C	-8.81	92.89	110.42
12	K	82	ASP	CA-C-N	8.81	130.85	119.84
12	K	82	ASP	C-N-CA	8.81	130.85	119.84
4	A	1031	VAL	O-C-N	8.81	130.75	121.94
10	I	17	ARG	CA-C-N	8.80	134.13	122.42
10	I	17	ARG	C-N-CA	8.80	134.13	122.42
4	A	203	SER	O-C-N	8.80	134.05	122.96
4	A	234	MET	CA-C-N	-8.80	109.56	122.58
4	A	234	MET	C-N-CA	-8.80	109.56	122.58
4	A	261	ASP	CA-C-O	8.80	129.65	119.18
5	B	1161	HIS	N-CA-CB	8.80	124.29	110.56
5	B	489	SER	CA-C-N	-8.80	107.68	122.11
5	B	489	SER	C-N-CA	-8.80	107.68	122.11
4	A	792	TYR	O-C-N	8.79	132.88	122.24
4	A	1301	GLU	CB-CA-C	-8.79	101.47	110.17
7	E	184	VAL	CA-C-N	-8.79	104.75	121.54
7	E	184	VAL	C-N-CA	-8.79	104.75	121.54
13	L	70	ARG	N-CA-C	8.79	135.60	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	751	SER	CA-C-N	8.79	137.94	121.69
4	A	751	SER	C-N-CA	8.79	137.94	121.69
5	B	526	GLU	CA-C-N	-8.78	108.68	122.56
5	B	526	GLU	C-N-CA	-8.78	108.68	122.56
6	C	217	ASP	CB-CA-C	8.78	128.77	110.50
10	I	77	LYS	N-CA-CB	8.79	123.51	110.33
5	B	791	THR	CA-C-O	-8.78	110.68	120.69
6	C	4	GLU	N-CA-CB	8.78	125.33	110.49
4	A	471	ASN	CA-C-O	-8.78	110.68	120.69
4	A	998	LEU	N-CA-C	8.78	129.49	110.80
6	C	48	SER	N-CA-C	8.78	129.49	110.80
5	B	276	ILE	O-C-N	8.78	132.66	123.18
5	B	1120	GLU	CB-CG-CD	8.78	127.52	112.60
6	C	66	ARG	CA-C-N	-8.78	105.76	120.68
6	C	66	ARG	C-N-CA	-8.78	105.76	120.68
4	A	1034	GLU	N-CA-C	-8.77	103.16	114.04
11	J	65	PRO	N-CA-CB	-8.77	93.35	103.00
4	A	112	LYS	O-C-N	8.77	133.25	123.25
4	A	1041	ALA	N-CA-CB	-8.77	95.67	110.49
8	F	131	PRO	N-CA-C	8.77	130.54	112.47
4	A	182	VAL	N-CA-CB	-8.77	100.88	112.10
4	A	277	GLU	CB-CG-CD	8.77	127.50	112.60
4	A	597	LEU	N-CA-C	8.77	129.48	110.80
5	B	823	ALA	CB-CA-C	-8.77	95.59	109.70
5	B	943	SER	N-CA-C	8.77	129.47	110.80
4	A	220	THR	CA-C-N	-8.76	108.54	120.28
4	A	220	THR	C-N-CA	-8.76	108.54	120.28
5	B	356	LEU	CB-CA-C	8.76	122.81	111.50
5	B	1127	GLY	N-CA-C	-8.76	98.98	111.42
13	L	57	LEU	CA-C-N	-8.76	108.08	122.54
13	L	57	LEU	C-N-CA	-8.76	108.08	122.54
4	A	546	VAL	N-CA-C	-8.76	101.17	110.36
4	A	765	VAL	CA-C-O	-8.76	111.34	120.71
5	B	236	HIS	N-CA-CB	8.76	126.49	111.69
4	A	688	LYS	CA-C-O	-8.75	107.99	120.51
4	A	531	ILE	CA-C-N	8.75	137.42	121.41
4	A	531	ILE	C-N-CA	8.75	137.42	121.41
4	A	1056	SER	N-CA-C	-8.75	102.59	113.18
4	A	1313	LEU	CA-CB-CG	8.75	146.93	116.30
4	A	417	TYR	N-CA-C	-8.75	94.93	109.80
4	A	759	ALA	CA-C-O	8.75	130.69	121.07
4	A	1301	GLU	CA-C-N	8.75	130.19	120.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1301	GLU	C-N-CA	8.75	130.19	120.66
4	A	7	SER	N-CA-CB	8.74	124.07	110.87
4	A	1057	VAL	CB-CA-C	-8.74	100.03	111.13
4	A	683	ILE	N-CA-C	-8.74	102.32	110.53
4	A	1256	GLU	CB-CG-CD	8.73	127.45	112.60
4	A	874	ASP	CA-C-O	8.73	130.79	121.19
4	A	926	GLN	N-CA-C	-8.73	100.99	112.34
9	H	13	SER	CA-C-N	8.73	136.18	122.74
9	H	13	SER	C-N-CA	8.73	136.18	122.74
5	B	1216	LEU	CA-C-O	8.71	129.69	120.36
6	C	113	VAL	CA-C-N	-8.71	106.94	123.32
6	C	113	VAL	C-N-CA	-8.71	106.94	123.32
4	A	1308	THR	N-CA-C	8.71	123.22	110.59
5	B	756	ILE	N-CA-CB	-8.71	99.02	111.21
10	I	77	LYS	CD-CE-NZ	8.71	139.78	111.90
10	I	88	SER	CB-CA-C	-8.71	93.08	110.42
5	B	698	GLU	CA-C-N	-8.71	106.61	120.63
5	B	698	GLU	C-N-CA	-8.71	106.61	120.63
5	B	1193	GLN	CB-CG-CD	8.71	127.41	112.60
4	A	1225	PHE	CA-C-N	-8.71	106.30	121.97
4	A	1225	PHE	C-N-CA	-8.71	106.30	121.97
5	B	863	GLU	N-CA-C	8.71	122.71	108.52
5	B	1220	ARG	CA-C-N	8.70	138.16	121.54
5	B	1220	ARG	C-N-CA	8.70	138.16	121.54
4	A	906	HIS	CA-C-N	-8.70	107.24	122.64
4	A	906	HIS	C-N-CA	-8.70	107.24	122.64
5	B	826	ALA	O-C-N	8.70	135.26	123.34
4	A	1028	THR	CA-CB-CG2	-8.70	95.71	110.50
6	C	165	LYS	CB-CG-CD	8.70	131.31	111.30
7	E	199	ILE	CA-C-O	-8.70	112.48	120.22
6	C	66	ARG	CA-CB-CG	-8.69	96.72	114.10
7	E	85	GLU	CA-C-O	-8.69	112.67	119.71
5	B	881	ASN	CA-C-O	-8.69	108.09	120.51
5	B	277	LYS	N-CA-C	-8.69	100.82	111.33
8	F	152	ILE	N-CA-CB	-8.69	94.80	110.95
7	E	28	TYR	CA-C-N	-8.68	111.55	122.84
7	E	28	TYR	C-N-CA	-8.68	111.55	122.84
13	L	68	GLU	CB-CG-CD	8.68	127.36	112.60
4	A	995	GLU	N-CA-CB	-8.68	97.78	110.53
4	A	679	ILE	CA-C-N	-8.67	108.64	120.44
4	A	679	ILE	C-N-CA	-8.67	108.64	120.44
8	F	79	ARG	CG-CD-NE	8.67	131.08	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	513	SER	CA-C-O	8.67	126.77	119.66
4	A	1012	ARG	CA-C-N	-8.67	104.02	121.18
4	A	1012	ARG	C-N-CA	-8.67	104.02	121.18
4	A	1308	THR	CA-C-N	-8.66	109.59	122.24
4	A	1308	THR	C-N-CA	-8.66	109.59	122.24
5	B	433	GLN	CB-CG-CD	8.66	127.33	112.60
5	B	839	MET	CG-SD-CE	-8.66	81.84	100.90
5	B	398	ARG	NE-CZ-NH1	8.66	130.16	121.50
5	B	325	GLN	CB-CA-C	8.66	125.95	111.23
5	B	983	ARG	NE-CZ-NH2	-8.65	111.41	119.20
10	I	9	ASP	O-C-N	-8.65	111.08	122.59
4	A	516	SER	CA-CB-OG	8.65	128.40	111.10
6	C	206	ASN	N-CA-C	8.65	129.22	110.80
7	E	195	VAL	N-CA-C	8.65	120.34	107.80
9	H	6	PHE	CA-C-N	-8.65	106.54	121.85
9	H	6	PHE	C-N-CA	-8.65	106.54	121.85
5	B	1069	PHE	CA-C-O	8.65	131.74	121.36
5	B	466	TRP	CA-CB-CG	8.64	130.02	113.60
4	A	779	PHE	CB-CA-C	-8.64	91.97	109.68
4	A	1135	ARG	O-C-N	8.63	134.07	122.59
5	B	207	GLY	O-C-N	8.63	132.68	122.50
5	B	867	GLY	CA-C-O	8.63	127.75	120.76
5	B	115	GLN	CB-CG-CD	8.63	127.27	112.60
5	B	325	GLN	CB-CG-CD	8.63	127.27	112.60
5	B	167	ILE	N-CA-C	-8.62	95.58	108.17
4	A	346	ASP	N-CA-C	8.62	121.91	110.53
4	A	105	CYS	CA-CB-SG	8.62	134.23	114.40
5	B	499	ASN	N-CA-C	-8.62	95.97	109.07
5	B	1131	GLY	O-C-N	8.62	131.47	122.93
4	A	506	ALA	N-CA-C	8.62	123.78	110.42
4	A	1049	ILE	CB-CA-C	-8.62	97.16	111.29
4	A	1294	PRO	N-CD-CG	-8.62	90.27	103.20
5	B	467	GLY	O-C-N	8.62	133.90	122.70
8	F	131	PRO	O-C-N	8.62	134.27	122.64
5	B	634	TYR	CA-C-O	-8.61	108.19	120.51
5	B	871	THR	N-CA-C	8.61	125.83	107.67
10	I	46	HIS	CB-CA-C	-8.61	99.14	112.31
4	A	55	ASP	CA-C-N	8.60	130.59	119.84
4	A	55	ASP	C-N-CA	8.60	130.59	119.84
5	B	798	TYR	O-C-N	-8.60	111.43	121.32
4	A	833	GLU	CG-CD-OE1	8.60	138.18	118.40
5	B	635	ARG	CB-CG-CD	8.60	131.08	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	L	48	CYS	N-CA-C	8.59	129.10	110.80
4	A	64	ASN	N-CA-C	8.59	123.42	109.59
4	A	1285	MET	CB-CG-SD	8.59	138.47	112.70
6	C	156	THR	N-CA-C	8.59	123.32	107.60
5	B	95	ILE	CA-C-N	-8.59	109.23	122.62
5	B	95	ILE	C-N-CA	-8.59	109.23	122.62
2	T	21	DC	C4'-C3'-C2'	8.58	115.28	102.40
4	A	447	GLN	CB-CG-CD	-8.58	98.01	112.60
5	B	490	SER	CA-C-N	-8.58	106.87	120.60
5	B	490	SER	C-N-CA	-8.58	106.87	120.60
5	B	1022	THR	CA-CB-OG1	-8.58	96.73	109.60
6	C	205	LYS	CD-CE-NZ	8.58	139.36	111.90
5	B	526	GLU	N-CA-C	8.58	121.50	109.15
6	C	78	GLU	CA-CB-CG	8.58	131.26	114.10
4	A	239	LEU	CB-CA-C	8.58	121.62	110.13
7	E	92	THR	CB-CA-C	8.58	125.03	110.79
4	A	387	ARG	N-CA-C	-8.57	101.51	111.03
5	B	1006	ILE	CB-CA-C	-8.57	97.36	111.51
6	C	224	GLN	CA-C-N	-8.57	110.50	122.93
6	C	224	GLN	C-N-CA	-8.57	110.50	122.93
7	E	172	GLU	CA-CB-CG	8.57	131.24	114.10
9	H	84	ALA	O-C-N	8.57	131.19	122.10
4	A	672	ASP	N-CA-CB	8.57	124.97	110.49
4	A	1384	VAL	N-CA-CB	8.57	125.37	111.23
4	A	684	ALA	N-CA-C	8.56	121.69	111.33
5	B	481	GLN	CA-C-N	-8.56	106.56	121.97
5	B	481	GLN	C-N-CA	-8.56	106.56	121.97
10	I	91	ARG	CA-C-O	8.55	132.74	120.51
5	B	50	SER	N-CA-CB	8.55	122.68	109.94
5	B	234	ILE	CB-CA-C	-8.55	102.18	111.59
5	B	795	ILE	CG1-CB-CG2	-8.55	85.04	110.70
13	L	40	LEU	O-C-N	8.55	132.93	122.92
5	B	690	VAL	CA-C-O	-8.55	110.09	120.78
9	H	136	LYS	N-CA-CB	-8.55	94.59	111.60
9	H	145	ARG	CA-C-O	8.55	130.63	120.20
4	A	970	THR	N-CA-CB	8.55	122.87	110.47
10	I	91	ARG	CD-NE-CZ	8.55	136.37	124.40
4	A	524	VAL	N-CA-C	8.54	123.08	108.90
10	I	39	GLY	O-C-N	8.54	130.59	122.13
4	A	1150	SER	CA-C-N	8.54	137.16	122.81
4	A	1150	SER	C-N-CA	8.54	137.16	122.81
5	B	802	PRO	CA-C-O	8.54	132.28	121.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	H	57	VAL	CA-C-N	-8.54	108.69	122.36
9	H	57	VAL	C-N-CA	-8.54	108.69	122.36
2	T	20	DC	OP2-P-O3'	8.54	133.62	108.00
4	A	273	ASN	CA-C-N	-8.54	106.89	120.55
4	A	273	ASN	C-N-CA	-8.54	106.89	120.55
5	B	623	GLU	CA-CB-CG	-8.54	97.02	114.10
5	B	712	PRO	CA-C-N	-8.54	105.23	121.54
5	B	712	PRO	C-N-CA	-8.54	105.23	121.54
9	H	126	GLU	CA-C-O	-8.54	110.36	120.60
4	A	569	LYS	N-CA-C	-8.54	90.95	109.81
4	A	981	LEU	CB-CG-CD2	-8.54	85.09	110.70
5	B	861	ASP	CA-C-N	8.53	135.99	122.59
5	B	861	ASP	C-N-CA	8.53	135.99	122.59
4	A	898	ARG	CA-C-N	-8.53	106.61	121.97
4	A	898	ARG	C-N-CA	-8.53	106.61	121.97
9	H	84	ALA	N-CA-CB	-8.53	99.65	111.00
4	A	954	TRP	CA-CB-CG	-8.53	97.40	113.60
12	K	54	ARG	NE-CZ-NH1	8.53	130.03	121.50
4	A	1209	MET	CG-SD-CE	8.53	119.66	100.90
5	B	550	ASP	CA-C-N	8.53	128.51	119.05
5	B	550	ASP	C-N-CA	8.53	128.51	119.05
10	I	66	PRO	N-CA-CB	-8.53	93.22	102.17
4	A	1314	SER	CA-C-N	8.53	135.50	122.37
4	A	1314	SER	C-N-CA	8.53	135.50	122.37
13	L	63	ARG	CA-C-O	8.53	131.22	119.80
4	A	435	HIS	N-CA-CB	-8.52	96.08	110.49
4	A	992	ASP	CA-C-O	-8.52	109.89	119.78
5	B	745	PRO	CB-CA-C	8.52	127.47	112.64
7	E	86	PRO	CA-N-CD	-8.52	100.07	112.00
4	A	1315	GLU	CB-CG-CD	8.52	127.08	112.60
10	I	31	THR	CB-CA-C	-8.52	95.50	109.56
11	J	50	ILE	CB-CA-C	-8.52	101.21	111.94
5	B	287	ARG	NE-CZ-NH2	8.52	126.86	119.20
4	A	1033	GLN	N-CA-C	8.52	123.45	112.89
7	E	61	GLN	CA-C-N	-8.52	108.57	122.11
7	E	61	GLN	C-N-CA	-8.52	108.57	122.11
10	I	104	LEU	N-CA-C	8.52	124.87	113.97
4	A	125	ALA	N-CA-C	8.51	128.93	110.80
4	A	980	ASP	CA-CB-CG	8.51	121.11	112.60
4	A	1098	VAL	N-CA-C	8.51	127.27	108.88
5	B	334	ILE	CA-C-O	-8.51	110.14	120.78
10	I	13	MET	O-C-N	8.51	133.43	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	428	TYR	CB-CA-C	-8.51	93.49	110.42
4	A	1079	MET	CA-C-O	-8.51	112.36	121.98
6	C	115	SER	CA-C-N	-8.51	106.93	120.63
6	C	115	SER	C-N-CA	-8.51	106.93	120.63
8	F	112	GLU	N-CA-CB	8.51	124.87	110.49
5	B	982	SER	N-CA-C	-8.51	92.68	110.80
5	B	406	LEU	CA-C-O	8.51	129.73	120.71
5	B	1094	ARG	CA-C-O	-8.51	110.90	120.43
6	C	106	GLU	O-C-N	8.51	130.19	120.58
9	H	80	ARG	CB-CG-CD	8.50	130.86	111.30
5	B	377	PHE	N-CA-C	-8.50	101.59	111.03
4	A	1242	VAL	CB-CA-C	-8.50	97.35	111.29
7	E	49	SER	CB-CA-C	8.50	125.13	110.68
5	B	987	LYS	CD-CE-NZ	8.50	139.09	111.90
8	F	112	GLU	CB-CG-CD	8.50	127.04	112.60
5	B	1008	PRO	CB-CA-C	-8.49	97.80	110.20
10	I	89	GLN	N-CA-C	8.49	128.89	110.80
4	A	244	PRO	N-CA-C	8.49	121.06	110.70
5	B	280	ILE	CA-C-N	-8.49	109.81	120.51
5	B	280	ILE	C-N-CA	-8.49	109.81	120.51
5	B	650	GLU	N-CA-C	8.49	121.92	109.69
5	B	1191	ILE	CA-C-O	8.49	129.93	121.19
7	E	79	TRP	N-CA-C	8.49	123.84	107.71
4	A	703	THR	CA-C-N	-8.49	107.56	122.07
4	A	703	THR	C-N-CA	-8.49	107.56	122.07
11	J	38	ARG	CA-C-O	-8.49	110.70	120.20
4	A	75	ASN	N-CA-C	-8.48	92.73	110.80
8	F	107	VAL	CA-C-N	-8.48	110.66	122.87
8	F	107	VAL	C-N-CA	-8.48	110.66	122.87
4	A	200	ARG	O-C-N	8.48	133.24	123.06
7	E	113	GLN	CA-CB-CG	8.48	131.06	114.10
4	A	1284	MET	O-C-N	8.48	133.39	123.30
4	A	3	GLY	O-C-N	8.48	136.57	123.00
5	B	409	ALA	CA-C-N	-8.48	108.56	121.87
5	B	409	ALA	C-N-CA	-8.48	108.56	121.87
7	E	177	ARG	CA-CB-CG	-8.48	97.14	114.10
8	F	152	ILE	CA-C-N	-8.48	111.57	123.10
8	F	152	ILE	C-N-CA	-8.48	111.57	123.10
5	B	107	GLY	CA-C-N	8.47	137.22	121.97
5	B	107	GLY	C-N-CA	8.47	137.22	121.97
6	C	255	VAL	N-CA-CB	8.47	120.22	110.65
11	J	53	HIS	CA-C-N	-8.47	111.21	122.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	J	53	HIS	C-N-CA	-8.47	111.21	122.99
4	A	423	ASP	CB-CG-OD1	-8.47	98.92	118.40
5	B	419	THR	N-CA-C	8.47	128.84	110.80
6	C	172	PRO	CB-CA-C	-8.47	97.58	111.56
4	A	480	ALA	CA-C-N	-8.47	106.66	123.09
4	A	480	ALA	C-N-CA	-8.47	106.66	123.09
9	H	42	ILE	CB-CA-C	-8.47	97.40	111.29
9	H	37	LYS	CG-CD-CE	8.47	130.77	111.30
4	A	58	LEU	CA-C-O	-8.46	111.04	120.69
4	A	123	ARG	N-CA-C	-8.46	92.77	110.80
4	A	1307	GLU	N-CA-C	8.46	122.97	107.99
6	C	182	PRO	N-CD-CG	-8.46	90.50	103.20
4	A	627	GLY	CA-C-O	-8.46	105.84	120.57
5	B	541	LEU	CA-C-N	-8.46	109.11	122.65
5	B	541	LEU	C-N-CA	-8.46	109.11	122.65
6	C	41	ILE	CG1-CB-CG2	-8.46	85.33	110.70
9	H	26	ILE	N-CA-C	8.46	120.30	108.12
4	A	351	THR	CB-CA-C	-8.46	96.26	114.10
4	A	1034	GLU	CA-C-N	-8.45	106.40	121.87
4	A	1034	GLU	C-N-CA	-8.45	106.40	121.87
5	B	476	ARG	NE-CZ-NH2	-8.46	111.59	119.20
4	A	990	VAL	N-CA-CB	-8.45	97.28	111.23
6	C	148	ARG	CA-C-N	-8.45	109.45	120.44
6	C	148	ARG	C-N-CA	-8.45	109.45	120.44
4	A	587	HIS	N-CA-C	8.45	122.67	109.07
4	A	839	ARG	N-CA-C	-8.45	103.56	114.04
4	A	423	ASP	CA-C-N	-8.45	106.77	121.97
4	A	423	ASP	C-N-CA	-8.45	106.77	121.97
4	A	745	GLN	CB-CG-CD	-8.45	98.24	112.60
4	A	1137	ALA	CA-C-N	-8.45	114.55	123.08
4	A	1137	ALA	C-N-CA	-8.45	114.55	123.08
4	A	532	ARG	CA-C-O	-8.44	107.88	118.43
4	A	737	LEU	CA-C-N	8.45	135.08	121.74
4	A	737	LEU	C-N-CA	8.45	135.08	121.74
6	C	149	LYS	CA-C-O	-8.44	111.95	120.82
10	I	30	ARG	CG-CD-NE	8.44	130.57	112.00
4	A	1401	SER	CA-CB-OG	8.44	127.98	111.10
5	B	582	VAL	N-CA-C	8.44	119.93	108.11
4	A	260	ASP	N-CA-CB	8.44	122.03	110.38
4	A	742	ASN	CA-C-N	-8.44	106.46	120.30
4	A	742	ASN	C-N-CA	-8.44	106.46	120.30
4	A	74	MET	N-CA-C	8.44	128.77	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	C	24	ASN	CB-CA-C	-8.44	99.91	111.89
12	K	51	LEU	CA-CB-CG	8.44	145.82	116.30
4	A	454	SER	N-CA-C	-8.43	102.98	113.18
4	A	315	LEU	CB-CA-C	8.43	127.19	110.42
4	A	390	GLN	CB-CG-CD	8.43	126.92	112.60
4	A	1067	LEU	CA-CB-CG	-8.43	86.81	116.30
4	A	518	LYS	CD-CE-NZ	8.42	138.86	111.90
4	A	741	ASN	N-CA-C	-8.42	95.61	108.67
7	E	13	TRP	N-CA-C	8.42	120.54	111.36
8	F	106	PRO	CB-CG-CD	-8.42	79.15	106.10
5	B	885	MET	N-CA-CB	-8.42	97.85	111.24
4	A	571	LEU	CB-CG-CD2	8.42	135.96	110.70
8	F	125	LEU	N-CA-C	-8.42	102.82	113.43
9	H	146	ARG	N-CA-CB	-8.42	96.19	110.50
5	B	960	GLY	O-C-N	8.41	133.64	122.70
5	B	121	ASN	CA-C-O	8.41	132.24	119.96
6	C	209	TYR	CA-CB-CG	8.41	129.04	113.90
8	F	142	SER	O-C-N	8.41	133.78	122.59
5	B	780	VAL	N-CA-C	8.41	119.31	107.37
11	J	28	ASP	N-CA-CB	8.41	122.83	110.56
5	B	250	PHE	CB-CA-C	-8.40	97.01	111.30
5	B	844	SER	N-CA-C	-8.40	102.06	111.14
4	A	134	ARG	CB-CA-C	-8.40	97.56	110.92
4	A	590	ARG	CA-C-O	-8.40	108.50	120.51
4	A	309	ALA	CA-C-N	-8.40	109.04	121.72
4	A	309	ALA	C-N-CA	-8.40	109.04	121.72
9	H	52	GLN	CB-CG-CD	8.40	126.87	112.60
4	A	285	PRO	N-CA-C	8.39	129.76	112.47
9	H	81	PRO	CA-C-N	-8.39	109.35	119.84
9	H	81	PRO	C-N-CA	-8.39	109.35	119.84
1	R	7	A	C4'-C3'-O3'	8.39	125.58	113.00
4	A	405	VAL	CB-CA-C	-8.39	96.20	110.71
7	E	72	PHE	N-CA-C	8.38	128.34	109.81
4	A	797	LYS	N-CA-C	8.38	123.69	112.88
4	A	455	MET	CA-CB-CG	-8.38	97.34	114.10
4	A	430	TRP	CA-C-O	-8.38	112.10	121.40
4	A	507	VAL	N-CA-C	8.38	126.98	108.88
4	A	864	ILE	CA-CB-CG1	-8.38	96.16	110.40
5	B	126	SER	CB-CA-C	8.38	125.99	110.24
10	I	8	ARG	N-CA-CB	8.38	124.65	110.49
4	A	11	LEU	N-CA-CB	-8.38	96.77	110.59
4	A	1221	LYS	CB-CG-CD	8.37	130.56	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	E	58	MET	CA-C-N	8.37	137.53	121.54
7	E	58	MET	C-N-CA	8.37	137.53	121.54
4	A	552	TRP	CA-C-O	8.37	129.42	120.55
4	A	1291	VAL	CA-C-N	8.37	130.30	119.84
4	A	1291	VAL	C-N-CA	8.37	130.30	119.84
5	B	893	LEU	N-CA-C	-8.37	96.12	109.59
6	C	205	LYS	N-CA-CB	8.37	122.14	110.01
7	E	177	ARG	NE-CZ-NH2	8.37	126.73	119.20
8	F	130	ILE	O-C-N	8.37	130.64	121.10
5	B	975	GLN	CA-C-N	-8.37	108.78	120.74
5	B	975	GLN	C-N-CA	-8.37	108.78	120.74
5	B	986	GLN	CB-CA-C	8.37	124.67	112.12
7	E	127	ILE	N-CA-CB	-8.36	99.50	111.21
13	L	44	ASP	N-CA-CB	8.36	124.30	110.92
5	B	1061	GLU	CB-CG-CD	8.36	126.81	112.60
10	I	112	SER	CA-C-N	8.36	133.97	122.19
10	I	112	SER	C-N-CA	8.36	133.97	122.19
4	A	781	ASP	CA-C-O	8.36	129.73	120.12
4	A	913	LEU	O-C-N	8.36	132.53	122.75
4	A	972	HIS	CA-C-N	8.36	137.01	121.97
4	A	972	HIS	C-N-CA	8.36	137.01	121.97
5	B	949	VAL	CA-C-N	-8.35	107.42	122.46
5	B	949	VAL	C-N-CA	-8.35	107.42	122.46
4	A	1266	THR	N-CA-C	-8.35	97.59	111.37
4	A	337	ARG	CB-CG-CD	8.35	130.50	111.30
4	A	420	ARG	N-CA-C	8.35	123.61	112.25
7	E	214	CYS	CB-CA-C	8.35	123.58	109.80
9	H	80	ARG	CD-NE-CZ	8.35	136.09	124.40
4	A	775	ILE	N-CA-C	8.35	119.86	108.84
6	C	40	GLU	CA-C-O	8.35	127.58	118.65
4	A	925	LEU	CA-C-N	-8.34	107.20	120.63
4	A	925	LEU	C-N-CA	-8.34	107.20	120.63
4	A	1064	VAL	N-CA-C	8.34	120.13	110.62
4	A	1109	LYS	CG-CD-CE	8.34	130.48	111.30
6	C	125	MET	CB-CA-C	-8.34	98.46	111.39
5	B	1044	ALA	CA-C-N	-8.34	108.58	121.92
5	B	1044	ALA	C-N-CA	-8.34	108.58	121.92
5	B	1071	VAL	CB-CA-C	-8.34	98.54	111.71
4	A	819	GLY	CA-C-N	-8.33	105.08	121.41
4	A	819	GLY	C-N-CA	-8.33	105.08	121.41
5	B	1071	VAL	CA-C-N	-8.33	108.71	122.21
5	B	1071	VAL	C-N-CA	-8.33	108.71	122.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	227	VAL	N-CA-C	8.33	122.67	111.17
4	A	585	GLY	N-CA-C	-8.33	93.44	113.18
4	A	846	GLU	N-CA-C	8.32	128.53	110.80
7	E	3	GLN	N-CA-C	-8.32	93.07	110.80
5	B	520	GLY	CA-C-O	8.32	127.86	119.04
2	T	27	DA	OP2-P-O3'	8.32	132.96	108.00
5	B	943	SER	CA-CB-OG	8.32	127.74	111.10
10	I	28	GLU	N-CA-CB	-8.32	96.43	110.49
4	A	656	TRP	CA-C-O	8.32	132.40	120.51
6	C	4	GLU	CA-CB-CG	8.32	130.73	114.10
6	C	127	ARG	NE-CZ-NH1	-8.32	113.18	121.50
4	A	884	ASP	O-C-N	8.31	133.31	122.42
9	H	34	ASP	OD1-CG-OD2	-8.31	102.95	122.90
5	B	1121	GLY	CA-C-O	-8.31	106.11	120.57
4	A	116	ASP	CA-C-N	8.31	131.76	120.38
4	A	116	ASP	C-N-CA	8.31	131.76	120.38
7	E	183	PRO	N-CD-CG	-8.31	90.74	103.20
13	L	67	PHE	CA-C-N	8.31	133.38	121.50
13	L	67	PHE	C-N-CA	8.31	133.38	121.50
4	A	277	GLU	CB-CA-C	8.30	124.58	110.79
5	B	847	ASP	N-CA-C	-8.30	102.17	111.14
7	E	139	ALA	O-C-N	8.30	134.55	122.43
4	A	603	ASN	CA-C-N	-8.30	109.40	121.44
4	A	603	ASN	C-N-CA	-8.30	109.40	121.44
4	A	1241	ARG	CA-C-O	-8.30	111.11	120.66
7	E	2	ASP	N-CA-C	8.30	134.24	111.00
4	A	151	ASP	CA-C-N	-8.30	106.78	122.13
4	A	151	ASP	C-N-CA	-8.30	106.78	122.13
4	A	951	GLU	O-C-N	8.30	133.18	123.30
5	B	322	PHE	N-CA-C	-8.30	93.12	110.80
5	B	570	VAL	N-CA-CB	-8.30	99.59	111.21
6	C	220	ASP	O-C-N	-8.30	112.81	123.02
7	E	145	THR	CA-C-N	-8.30	108.29	122.56
7	E	145	THR	C-N-CA	-8.30	108.29	122.56
4	A	997	LEU	CA-C-O	-8.30	111.67	120.63
10	I	112	SER	N-CA-CB	-8.29	97.44	110.46
4	A	1239	ARG	CB-CG-CD	8.29	130.38	111.30
4	A	536	LEU	N-CA-C	8.29	128.45	110.80
5	B	1141	HIS	CA-C-O	8.29	128.97	119.27
5	B	383	ASN	N-CA-C	-8.29	102.25	111.28
5	B	567	GLU	CB-CG-CD	8.29	126.69	112.60
5	B	1045	SER	CB-CA-C	8.29	127.73	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	C	155	LEU	N-CA-C	8.29	120.54	108.86
5	B	538	ASN	CA-C-N	-8.28	108.56	122.64
5	B	538	ASN	C-N-CA	-8.28	108.56	122.64
4	A	67	CYS	N-CA-C	-8.28	100.22	110.65
5	B	133	LYS	CD-CE-NZ	8.28	138.39	111.90
5	B	966	VAL	CB-CA-C	-8.28	99.58	110.84
4	A	1281	ARG	N-CA-CB	8.27	124.47	110.49
7	E	166	LYS	CA-C-N	-8.27	109.97	122.21
7	E	166	LYS	C-N-CA	-8.27	109.97	122.21
5	B	383	ASN	CA-C-O	-8.27	111.79	120.55
4	A	917	SER	N-CA-CB	8.27	124.46	110.49
4	A	76	GLU	CA-C-N	-8.26	110.12	121.61
4	A	76	GLU	C-N-CA	-8.26	110.12	121.61
4	A	443	LEU	CA-C-O	-8.26	111.95	120.54
4	A	1422	ARG	CA-C-N	-8.26	114.35	122.20
4	A	1422	ARG	C-N-CA	-8.26	114.35	122.20
5	B	877	PRO	CB-CA-C	-8.26	98.74	111.22
5	B	900	ALA	CA-C-N	-8.26	110.38	118.97
5	B	900	ALA	C-N-CA	-8.26	110.38	118.97
10	I	43	VAL	O-C-N	8.26	132.89	122.57
4	A	568	PRO	CA-N-CD	-8.26	100.44	112.00
7	E	30	ILE	N-CA-C	8.26	126.52	109.34
5	B	68	THR	CA-CB-CG2	8.26	124.53	110.50
5	B	95	ILE	CG1-CB-CG2	8.26	135.47	110.70
4	A	825	ILE	CA-C-N	-8.25	108.39	120.28
4	A	12	ARG	O-C-N	8.25	132.59	123.10
4	A	749	ALA	O-C-N	8.25	131.56	122.15
4	A	825	ILE	C-N-CA	-8.25	108.39	120.28
4	A	847	ASP	CA-C-N	-8.25	108.42	121.62
4	A	847	ASP	C-N-CA	-8.25	108.42	121.62
4	A	1222	ASN	O-C-N	8.25	133.55	122.82
5	B	305	VAL	CA-C-O	8.25	128.39	120.14
7	E	168	TYR	CA-C-N	-8.25	110.31	122.35
7	E	168	TYR	C-N-CA	-8.25	110.31	122.35
5	B	545	ILE	CB-CA-C	-8.25	98.29	110.33
5	B	938	SER	CA-CB-OG	8.25	127.59	111.10
4	A	735	VAL	CA-C-N	-8.24	105.80	121.54
4	A	735	VAL	C-N-CA	-8.24	105.80	121.54
9	H	120	GLY	CA-C-N	-8.24	109.41	120.95
9	H	120	GLY	C-N-CA	-8.24	109.41	120.95
5	B	685	LEU	CB-CG-CD1	-8.24	85.99	110.70
4	A	891	ALA	N-CA-C	8.23	120.03	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	562	GLY	N-CA-C	-8.23	93.66	113.18
4	A	456	MET	CA-CB-CG	8.23	130.56	114.10
4	A	1407	GLU	N-CA-CB	-8.23	97.14	110.14
5	B	247	GLY	N-CA-C	8.23	132.69	113.18
12	K	68	PHE	CA-C-N	8.23	137.49	122.27
4	A	552	TRP	N-CA-CB	-8.23	98.03	110.12
5	B	635	ARG	O-C-N	8.23	130.78	121.32
12	K	68	PHE	C-N-CA	8.23	137.49	122.27
5	B	1006	ILE	CA-C-N	-8.22	106.91	122.13
5	B	1006	ILE	C-N-CA	-8.22	106.91	122.13
1	R	4	G	P-O3'-C3'	8.22	132.53	120.20
4	A	997	LEU	N-CA-CB	8.22	122.39	110.06
4	A	1197	LEU	CA-C-N	-8.22	109.67	121.42
4	A	1197	LEU	C-N-CA	-8.22	109.67	121.42
5	B	301	ILE	CB-CA-C	-8.22	97.81	111.29
5	B	972	LYS	CA-C-N	-8.22	106.92	122.13
5	B	972	LYS	C-N-CA	-8.22	106.92	122.13
7	E	162	ARG	NH1-CZ-NH2	-8.22	108.61	119.30
12	K	4	PRO	N-CD-CG	-8.22	90.87	103.20
5	B	1115	THR	CA-C-N	-8.22	110.15	123.05
5	B	1115	THR	C-N-CA	-8.22	110.15	123.05
4	A	261	ASP	N-CA-CB	-8.22	97.56	110.46
4	A	898	ARG	CB-CA-C	-8.22	97.16	111.05
5	B	964	VAL	CA-CB-CG1	-8.22	96.43	110.40
6	C	92	CYS	CA-CB-SG	-8.22	95.50	114.40
12	K	53	ASP	CA-C-N	-8.22	106.67	122.61
4	A	264	PHE	CB-CA-C	-8.21	94.52	110.46
5	B	384	ARG	CA-C-N	-8.21	105.85	121.54
5	B	384	ARG	C-N-CA	-8.21	105.85	121.54
12	K	53	ASP	C-N-CA	-8.22	106.67	122.61
7	E	141	VAL	CA-C-N	-8.21	109.02	122.57
7	E	141	VAL	C-N-CA	-8.21	109.02	122.57
5	B	1021	MET	CA-C-O	8.21	131.64	122.03
4	A	79	GLY	N-CA-C	-8.21	103.30	112.33
4	A	688	LYS	CA-C-N	-8.21	108.50	120.82
4	A	688	LYS	C-N-CA	-8.21	108.50	120.82
4	A	264	PHE	N-CA-C	8.21	122.25	111.75
6	C	137	LYS	CD-CE-NZ	8.20	138.15	111.90
4	A	327	ALA	N-CA-CB	8.20	124.19	110.41
7	E	179	GLN	CB-CA-C	8.20	124.15	109.38
9	H	62	SER	N-CA-C	8.20	128.27	110.80
5	B	277	LYS	CB-CG-CD	8.20	130.16	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	I	118	ARG	CB-CA-C	-8.20	97.51	110.14
5	B	360	PHE	N-CA-C	-8.20	91.47	107.62
5	B	418	LYS	CA-CB-CG	8.20	130.50	114.10
10	I	65	ASP	CB-CG-OD1	-8.20	99.54	118.40
4	A	675	THR	N-CA-C	-8.20	102.87	113.12
4	A	898	ARG	N-CA-CB	8.20	122.12	110.24
4	A	1284	MET	CA-CB-CG	8.20	130.49	114.10
5	B	1074	ASN	N-CA-C	-8.20	96.71	109.25
11	J	34	THR	OG1-CB-CG2	-8.20	92.91	109.30
4	A	1128	GLN	N-CA-C	-8.19	102.29	111.71
5	B	767	ASN	CB-CA-C	-8.19	94.57	110.46
7	E	60	PHE	CA-C-O	8.19	131.37	121.87
4	A	844	ALA	N-CA-C	-8.18	101.80	112.68
4	A	1055	ARG	CB-CA-C	-8.18	97.20	110.79
4	A	969	GLN	CB-CA-C	8.18	124.22	109.99
5	B	1143	ALA	N-CA-C	8.18	122.39	109.39
5	B	1216	LEU	N-CA-C	8.18	122.06	108.73
5	B	617	ARG	N-CA-C	-8.18	95.08	108.41
5	B	620	ARG	CB-CA-C	8.17	124.72	110.01
5	B	729	ILE	N-CA-CB	-8.17	101.64	112.10
5	B	844	SER	CA-CB-OG	-8.17	94.75	111.10
5	B	883	LEU	CA-CB-CG	8.17	144.88	116.30
4	A	1300	LYS	CG-CD-CE	8.16	130.08	111.30
4	A	1286	LYS	CB-CA-C	-8.16	101.10	111.22
5	B	239	GLU	N-CA-CB	-8.16	96.34	111.52
5	B	447	ALA	N-CA-C	8.16	128.19	110.80
7	E	34	GLU	N-CA-CB	-8.16	96.70	110.49
7	E	48	ASP	CA-CB-CG	8.16	120.76	112.60
4	A	440	ASP	CA-C-O	8.16	130.02	120.88
5	B	1213	THR	N-CA-C	8.16	122.15	110.24
7	E	207	ARG	CA-CB-CG	8.16	130.42	114.10
5	B	759	PRO	CA-N-CD	-8.16	100.58	112.00
8	F	148	VAL	CA-C-N	-8.16	108.71	120.29
8	F	148	VAL	C-N-CA	-8.16	108.71	120.29
5	B	591	ARG	CG-CD-NE	-8.15	94.06	112.00
10	I	102	VAL	CB-CA-C	-8.15	99.41	110.42
4	A	247	ARG	N-CA-C	8.15	127.83	109.81
4	A	1066	VAL	N-CA-C	8.15	121.24	111.05
4	A	1262	LYS	N-CA-C	-8.15	102.44	112.38
5	B	423	LYS	CA-C-N	-8.15	108.48	120.38
5	B	423	LYS	C-N-CA	-8.15	108.48	120.38
7	E	12	LEU	CA-C-N	-8.15	108.72	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	E	12	LEU	C-N-CA	-8.15	108.72	120.29
4	A	664	THR	O-C-N	8.15	133.43	122.59
10	I	118	ARG	CA-C-N	-8.15	107.83	121.92
10	I	118	ARG	C-N-CA	-8.15	107.83	121.92
5	B	728	ARG	NE-CZ-NH1	-8.14	113.36	121.50
8	F	148	VAL	O-C-N	8.14	130.34	122.20
4	A	1205	LYS	N-CA-C	8.14	122.53	110.48
5	B	509	ALA	N-CA-CB	-8.14	98.19	110.40
4	A	101	LYS	CA-CB-CG	8.14	130.38	114.10
4	A	257	ARG	CA-C-O	-8.14	110.07	120.00
5	B	1192	TYR	N-CA-C	8.14	122.13	108.13
13	L	59	ALA	N-CA-C	-8.14	93.46	110.80
6	C	222	LYS	CG-CD-CE	8.14	130.02	111.30
8	F	124	GLU	CA-C-O	8.14	129.28	119.43
4	A	255	SER	CA-CB-OG	8.14	127.37	111.10
4	A	436	ILE	CA-C-O	-8.13	111.87	120.57
4	A	565	ILE	N-CA-C	-8.14	96.36	108.97
4	A	737	LEU	CB-CA-C	-8.13	94.23	110.42
6	C	65	HIS	CA-C-N	-8.13	106.90	121.14
6	C	65	HIS	C-N-CA	-8.13	106.90	121.14
7	E	4	GLU	CB-CA-C	8.14	124.20	111.02
6	C	19	ASP	CA-C-N	-8.13	106.01	121.54
6	C	19	ASP	C-N-CA	-8.13	106.01	121.54
8	F	110	ASP	N-CA-CB	-8.13	98.48	110.84
5	B	324	ILE	CA-C-N	-8.13	111.06	123.17
5	B	324	ILE	C-N-CA	-8.13	111.06	123.17
6	C	51	VAL	N-CA-C	8.13	119.83	108.12
9	H	144	ILE	CA-C-N	-8.13	110.36	122.39
9	H	144	ILE	C-N-CA	-8.13	110.36	122.39
12	K	3	ALA	CA-C-N	8.13	130.00	119.84
12	K	3	ALA	C-N-CA	8.13	130.00	119.84
5	B	454	THR	OG1-CB-CG2	-8.13	93.05	109.30
5	B	884	ARG	O-C-N	8.13	133.16	123.33
4	A	1125	ALA	CA-C-N	-8.12	111.06	123.17
4	A	1125	ALA	C-N-CA	-8.12	111.06	123.17
5	B	454	THR	N-CA-CB	8.12	124.13	110.32
4	A	154	SER	N-CA-C	8.12	133.73	111.00
4	A	1239	ARG	CG-CD-NE	8.12	129.86	112.00
6	C	128	ASN	CA-C-N	-8.12	107.36	121.97
4	A	341	MET	CG-SD-CE	-8.12	83.04	100.90
4	A	444	PHE	CB-CA-C	-8.12	97.59	111.23
4	A	856	THR	CA-C-N	-8.12	108.56	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	856	THR	C-N-CA	-8.12	108.56	121.87
6	C	128	ASN	C-N-CA	-8.12	107.36	121.97
4	A	1274	ARG	CG-CD-NE	-8.12	94.14	112.00
5	B	970	THR	CA-C-O	-8.12	112.56	121.33
9	H	15	VAL	CB-CA-C	8.12	122.47	111.19
4	A	1031	VAL	N-CA-CB	8.12	119.52	110.51
5	B	658	ILE	CA-C-N	-8.11	107.38	121.66
5	B	658	ILE	C-N-CA	-8.11	107.38	121.66
5	B	956	THR	CB-CA-C	-8.12	96.92	109.99
5	B	1162	ILE	N-CA-C	8.12	120.02	108.42
4	A	1207	LEU	O-C-N	8.11	132.67	123.42
7	E	55	ARG	N-CA-C	8.11	128.08	110.80
9	H	2	SER	N-CA-C	8.11	133.72	111.00
5	B	569	TYR	N-CA-C	8.11	122.12	109.07
9	H	84	ALA	N-CA-C	8.11	124.86	114.56
5	B	694	ASP	CA-C-O	-8.11	111.80	120.80
4	A	870	GLU	CB-CG-CD	8.10	126.38	112.60
4	A	938	LYS	CB-CG-CD	8.10	129.94	111.30
6	C	169	LYS	CD-CE-NZ	-8.10	85.97	111.90
12	K	5	ASP	N-CA-CB	8.10	121.85	110.26
9	H	124	ARG	N-CA-C	8.10	123.58	107.62
10	I	59	VAL	N-CA-CB	-8.10	97.87	111.23
5	B	576	ASP	CA-C-N	-8.10	110.90	123.13
5	B	576	ASP	C-N-CA	-8.10	110.90	123.13
6	C	137	LYS	N-CA-CB	8.10	123.93	110.33
4	A	895	LYS	CG-CD-CE	8.10	129.92	111.30
4	A	1160	SER	CA-C-N	-8.10	108.01	122.74
4	A	1160	SER	C-N-CA	-8.10	108.01	122.74
5	B	448	ILE	N-CA-CB	-8.10	97.87	111.23
5	B	1199	ALA	CA-C-O	8.10	129.56	120.90
4	A	11	LEU	CD1-CG-CD2	8.09	128.60	110.80
4	A	768	GLN	CA-C-N	-8.09	106.72	121.69
4	A	768	GLN	C-N-CA	-8.09	106.72	121.69
5	B	55	VAL	CA-C-N	-8.09	108.68	120.82
5	B	55	VAL	C-N-CA	-8.09	108.68	120.82
5	B	896	ASP	CA-CB-CG	8.09	120.69	112.60
4	A	1337	GLU	CA-CB-CG	8.09	130.28	114.10
8	F	140	ASP	CA-CB-CG	8.09	120.69	112.60
4	A	127	ALA	N-CA-CB	8.09	124.32	110.98
5	B	61	ASP	CB-CA-C	-8.08	96.83	110.81
4	A	256	GLN	CA-C-O	-8.08	109.30	120.21
4	A	857	ARG	NE-CZ-NH2	-8.08	111.93	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	278	GLN	CA-C-N	-8.08	104.41	123.16
5	B	278	GLN	C-N-CA	-8.08	104.41	123.16
5	B	1189	ILE	CB-CA-C	8.08	119.35	110.62
5	B	525	ALA	CA-C-N	-8.08	109.05	121.66
5	B	525	ALA	C-N-CA	-8.08	109.05	121.66
5	B	610	ASN	N-CA-C	8.08	127.67	109.81
4	A	276	LEU	CB-CA-C	8.08	122.89	109.56
5	B	958	GLN	N-CA-C	-8.08	93.60	110.80
6	C	122	SER	CA-CB-OG	8.07	127.25	111.10
12	K	94	ILE	CA-C-O	8.07	129.35	120.71
4	A	670	ILE	CB-CA-C	-8.07	98.05	111.29
5	B	64	CYS	N-CA-C	-8.07	96.06	109.46
4	A	1311	VAL	N-CA-CB	-8.07	101.77	112.10
5	B	999	MET	CG-SD-CE	-8.07	83.15	100.90
4	A	472	LEU	CB-CA-C	-8.07	96.96	110.68
4	A	841	LEU	CA-C-N	-8.07	108.36	121.19
4	A	841	LEU	C-N-CA	-8.07	108.36	121.19
5	B	354	ASP	CB-CG-OD2	8.07	136.95	118.40
5	B	577	ALA	N-CA-CB	-8.07	97.38	110.69
4	A	530	GLY	CA-C-N	-8.06	107.46	121.97
4	A	530	GLY	C-N-CA	-8.06	107.46	121.97
4	A	679	ILE	CB-CA-C	-8.06	101.10	112.22
5	B	743	ILE	CA-C-O	8.06	129.33	120.95
7	E	85	GLU	CA-CB-CG	8.06	130.22	114.10
8	F	109	VAL	CA-C-N	8.06	134.31	122.86
8	F	109	VAL	C-N-CA	8.06	134.31	122.86
5	B	856	PHE	CB-CA-C	-8.06	95.20	109.71
6	C	123	ASN	CA-C-O	8.06	129.68	120.98
5	B	536	VAL	CA-C-O	-8.05	112.91	121.93
4	A	1127	ASP	N-CA-CB	8.05	124.09	110.49
5	B	1026	LEU	CA-C-N	-8.05	110.64	120.70
5	B	1026	LEU	C-N-CA	-8.05	110.64	120.70
6	C	121	VAL	CG1-CB-CG2	8.05	128.51	110.80
11	J	59	LYS	CA-C-N	-8.05	105.89	121.58
11	J	59	LYS	C-N-CA	-8.05	105.89	121.58
9	H	130	ARG	N-CA-CB	-8.05	96.89	110.49
4	A	1076	ALA	N-CA-C	-8.05	102.46	111.07
12	K	11	LEU	CA-C-N	-8.05	110.05	121.72
4	A	578	LEU	N-CA-C	-8.04	102.46	111.71
5	B	241	ARG	N-CA-C	-8.04	92.85	107.98
12	K	11	LEU	C-N-CA	-8.05	110.05	121.72
5	B	1004	GLU	CA-C-N	-8.04	105.64	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	1004	GLU	C-N-CA	-8.04	105.64	121.41
8	F	85	MET	CA-C-O	-8.04	111.87	120.80
5	B	510	LYS	N-CA-CB	-8.04	101.62	110.71
8	F	111	LEU	CA-C-O	-8.04	112.25	121.66
5	B	632	ARG	CA-CB-CG	8.04	130.18	114.10
5	B	892	LYS	CD-CE-NZ	8.04	137.63	111.90
4	A	432	VAL	N-CA-CB	-8.04	97.97	111.23
4	A	757	ASN	N-CA-C	-8.04	101.60	111.33
4	A	1118	VAL	CB-CA-C	-8.04	98.12	110.50
6	C	150	GLY	N-CA-C	8.04	132.23	113.18
5	B	182	SER	CA-C-N	-8.04	107.54	121.52
5	B	182	SER	C-N-CA	-8.04	107.54	121.52
7	E	214	CYS	CA-C-N	-8.04	107.24	121.70
7	E	214	CYS	C-N-CA	-8.04	107.24	121.70
5	B	164	LYS	CB-CG-CD	8.03	129.77	111.30
5	B	936	ASP	O-C-N	8.03	132.48	123.01
10	I	35	VAL	N-CA-C	8.03	122.23	108.90
5	B	1093	GLN	O-C-N	-8.03	114.20	123.27
4	A	375	THR	CA-CB-OG1	-8.03	97.56	109.60
4	A	1157	ASP	CA-CB-CG	-8.02	104.58	112.60
5	B	384	ARG	CD-NE-CZ	8.02	135.63	124.40
6	C	135	GLN	N-CA-C	-8.02	100.52	113.19
5	B	846	ILE	O-C-N	8.02	130.09	121.83
4	A	244	PRO	CB-CA-C	8.02	120.70	110.92
4	A	269	ILE	CA-C-N	-8.02	102.76	121.52
4	A	269	ILE	C-N-CA	-8.02	102.76	121.52
10	I	77	LYS	CA-C-O	-8.02	110.22	119.60
4	A	460	VAL	CA-C-N	-8.01	109.38	121.72
4	A	460	VAL	C-N-CA	-8.01	109.38	121.72
6	C	189	THR	CA-C-O	-8.01	112.67	121.33
4	A	982	THR	CA-C-N	-8.01	107.55	121.97
4	A	982	THR	C-N-CA	-8.01	107.55	121.97
9	H	38	LEU	CA-C-N	8.01	134.30	123.00
9	H	38	LEU	C-N-CA	8.01	134.30	123.00
5	B	662	MET	CB-CA-C	8.01	123.62	110.24
5	B	986	GLN	CA-CB-CG	-8.01	98.08	114.10
5	B	362	PRO	CA-C-N	-8.01	109.09	121.74
5	B	362	PRO	C-N-CA	-8.01	109.09	121.74
5	B	1180	PHE	CA-C-N	-8.01	106.25	121.54
5	B	1180	PHE	C-N-CA	-8.01	106.25	121.54
4	A	316	GLN	CB-CG-CD	8.00	126.20	112.60
4	A	718	VAL	N-CA-CB	-8.00	101.19	110.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	213	ILE	CB-CA-C	-8.00	101.28	110.96
4	A	41	MET	N-CA-C	8.00	127.84	110.80
5	B	914	LYS	CB-CG-CD	8.00	129.70	111.30
4	A	247	ARG	NE-CZ-NH1	8.00	129.50	121.50
4	A	535	THR	N-CA-C	8.00	120.08	111.36
4	A	553	VAL	CB-CA-C	-8.00	96.80	111.36
4	A	941	LYS	N-CA-CB	8.00	124.01	110.49
5	B	542	MET	CA-C-O	8.00	128.92	119.56
9	H	143	LEU	CA-C-O	8.00	129.96	120.20
4	A	1379	GLY	CA-C-N	-8.00	112.43	122.19
4	A	1379	GLY	C-N-CA	-8.00	112.43	122.19
5	B	1147	LEU	CA-C-N	-8.00	107.36	120.71
5	B	1147	LEU	C-N-CA	-8.00	107.36	120.71
4	A	1257	ASP	O-C-N	7.99	133.22	122.59
5	B	628	THR	CB-CA-C	-7.99	97.71	111.45
5	B	819	ALA	CA-C-N	-7.99	105.75	121.41
5	B	819	ALA	C-N-CA	-7.99	105.75	121.41
5	B	224	GLN	CA-C-N	-7.99	112.80	123.10
5	B	224	GLN	C-N-CA	-7.99	112.80	123.10
5	B	493	SER	CA-C-N	-7.99	107.92	122.38
5	B	493	SER	C-N-CA	-7.99	107.92	122.38
12	K	92	ASN	N-CA-CB	7.99	121.65	110.07
4	A	1322	ILE	N-CA-C	-7.99	96.73	108.87
5	B	850	LEU	O-C-N	7.98	132.43	123.01
6	C	154	LYS	N-CA-C	7.98	123.73	107.69
5	B	637	LEU	CB-CG-CD1	7.98	134.64	110.70
12	K	96	ASN	O-C-N	7.98	130.29	122.07
4	A	428	TYR	CA-C-N	-7.98	109.17	122.25
4	A	428	TYR	C-N-CA	-7.98	109.17	122.25
4	A	669	THR	N-CA-C	-7.98	104.07	113.88
13	L	48	CYS	CA-CB-SG	7.98	132.74	114.40
4	A	1400	CYS	CA-CB-SG	-7.97	96.06	114.40
4	A	1043	ASP	CA-C-O	7.97	129.14	119.49
5	B	347	LYS	CB-CG-CD	7.97	129.64	111.30
5	B	1033	LYS	CG-CD-CE	7.97	129.63	111.30
4	A	349	ALA	CA-C-N	-7.97	106.31	121.54
4	A	349	ALA	C-N-CA	-7.97	106.31	121.54
4	A	812	GLU	CB-CG-CD	7.97	126.15	112.60
5	B	971	THR	CA-C-N	-7.97	111.75	122.99
5	B	971	THR	C-N-CA	-7.97	111.75	122.99
5	B	250	PHE	CA-CB-CG	7.97	121.77	113.80
6	C	48	SER	CA-CB-OG	-7.97	95.17	111.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	350	GLN	N-CA-C	-7.96	93.84	110.80
5	B	792	MET	N-CA-C	7.96	127.76	110.80
6	C	187	LYS	CA-C-O	7.96	131.90	120.51
5	B	595	ARG	NH1-CZ-NH2	-7.96	108.95	119.30
12	K	85	ASP	N-CA-C	-7.96	102.68	111.36
4	A	1057	VAL	N-CA-C	7.96	122.03	110.09
4	A	1391	ARG	CG-CD-NE	7.96	129.51	112.00
4	A	399	HIS	N-CA-CB	7.96	124.53	110.37
5	B	1155	SER	CA-C-N	7.96	133.16	121.31
5	B	1155	SER	C-N-CA	7.96	133.16	121.31
5	B	248	SER	CA-C-N	7.95	136.73	121.54
5	B	248	SER	C-N-CA	7.95	136.73	121.54
5	B	948	ILE	CB-CA-C	-7.95	98.25	111.29
4	A	938	LYS	CD-CE-NZ	7.95	137.34	111.90
4	A	533	LYS	N-CA-CB	7.95	124.30	110.39
4	A	1165	GLU	CA-CB-CG	7.95	129.99	114.10
4	A	1295	THR	O-C-N	7.95	133.08	122.43
9	H	97	MET	CG-SD-CE	7.95	118.38	100.90
4	A	532	ARG	O-C-N	-7.94	113.51	121.93
6	C	22	LEU	CB-CA-C	7.94	122.37	110.14
12	K	52	ASN	N-CA-C	-7.94	103.59	113.28
4	A	417	TYR	OH-CZ-CE2	-7.94	96.08	119.90
5	B	229	ALA	O-C-N	7.94	133.15	122.59
6	C	189	THR	N-CA-C	-7.94	97.00	109.07
7	E	67	GLU	N-CA-C	-7.94	100.76	111.96
5	B	429	PHE	CA-CB-CG	7.94	121.74	113.80
4	A	1121	GLU	CB-CG-CD	7.93	126.09	112.60
4	A	967	ALA	N-CA-C	-7.93	93.91	110.80
4	A	1054	LEU	N-CA-C	7.93	127.69	110.80
4	A	1398	MET	CG-SD-CE	7.93	118.35	100.90
5	B	785	TYR	O-C-N	7.92	133.05	122.43
4	A	1001	ARG	N-CA-C	7.92	123.13	111.96
9	H	39	THR	CA-C-O	7.92	128.78	120.30
4	A	251	SER	N-CA-C	7.92	127.67	110.80
4	A	887	GLY	N-CA-C	7.92	123.92	112.60
5	B	538	ASN	N-CA-CB	-7.92	96.67	111.00
6	C	154	LYS	CB-CG-CD	7.92	129.50	111.30
4	A	146	MET	N-CA-C	7.91	126.39	113.89
5	B	291	ILE	CB-CA-C	7.91	119.98	111.35
9	H	129	TYR	N-CA-C	7.91	123.40	113.43
4	A	746	MET	CA-C-O	7.91	127.84	119.14
5	B	287	ARG	NE-CZ-NH1	-7.91	113.59	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	E	162	ARG	CD-NE-CZ	7.91	135.48	124.40
12	K	72	LYS	N-CA-C	7.91	122.10	108.02
4	A	1387	HIS	CA-CB-CG	-7.91	105.89	113.80
6	C	168	ALA	N-CA-C	-7.91	102.13	112.41
12	K	2	ASN	CA-C-N	7.91	131.98	120.51
12	K	2	ASN	C-N-CA	7.91	131.98	120.51
5	B	236	HIS	O-C-N	7.91	130.53	123.41
5	B	424	LEU	CA-C-N	-7.90	108.90	120.28
5	B	424	LEU	C-N-CA	-7.90	108.90	120.28
5	B	514	LEU	CB-CG-CD2	7.90	134.41	110.70
4	A	753	GLY	CA-C-O	-7.90	111.44	122.43
5	B	292	ILE	N-CA-C	7.90	125.95	108.88
5	B	488	TYR	CA-C-O	-7.90	109.21	120.51
4	A	1437	GLY	CA-C-O	7.90	134.32	120.57
9	H	14	GLU	CA-C-N	7.90	133.85	123.11
9	H	14	GLU	C-N-CA	7.90	133.85	123.11
4	A	47	ARG	CD-NE-CZ	7.89	135.45	124.40
5	B	206	ASN	N-CA-C	7.89	122.26	112.47
7	E	56	LYS	O-C-N	7.89	133.01	122.43
5	B	859	TYR	CA-C-N	-7.89	110.20	122.59
5	B	859	TYR	C-N-CA	-7.89	110.20	122.59
5	B	1038	SER	CB-CA-C	-7.89	92.93	110.21
8	F	131	PRO	N-CD-CG	-7.89	91.36	103.20
5	B	1097	HIS	N-CA-CB	7.89	123.82	110.49
5	B	1209	ALA	CA-C-O	7.89	128.98	119.43
9	H	25	ARG	N-CA-C	-7.89	96.83	109.76
10	I	56	ALA	N-CA-CB	7.89	123.82	110.49
5	B	313	MET	CA-C-O	-7.88	112.19	120.55
5	B	1045	SER	N-CA-C	-7.88	98.56	110.07
4	A	715	GLU	CA-C-N	-7.88	109.00	120.82
4	A	715	GLU	C-N-CA	-7.88	109.00	120.82
5	B	496	ARG	NE-CZ-NH1	-7.88	113.62	121.50
5	B	696	GLU	CG-CD-OE2	-7.88	100.27	118.40
9	H	129	TYR	N-CA-CB	-7.88	97.11	110.51
5	B	638	PHE	CB-CA-C	-7.88	95.84	111.60
4	A	531	ILE	CA-CB-CG2	7.88	123.89	110.50
4	A	685	GLU	CB-CA-C	7.88	124.03	110.79
7	E	150	VAL	CA-C-N	-7.88	109.99	119.84
7	E	150	VAL	C-N-CA	-7.88	109.99	119.84
4	A	580	VAL	CA-C-N	-7.87	108.34	120.31
4	A	580	VAL	C-N-CA	-7.87	108.34	120.31
4	A	377	PRO	N-CD-CG	-7.87	91.40	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1401	SER	N-CA-C	7.87	127.56	110.80
5	B	812	LEU	CA-C-N	7.87	133.32	122.07
5	B	812	LEU	C-N-CA	7.87	133.32	122.07
9	H	13	SER	CB-CA-C	-7.87	98.89	111.39
4	A	1301	GLU	N-CA-CB	7.86	121.63	110.07
9	H	114	VAL	N-CA-C	7.86	121.25	108.99
4	A	1423	GLY	CA-C-O	-7.86	114.07	120.91
5	B	643	ASP	CA-C-N	-7.86	111.70	122.86
5	B	643	ASP	C-N-CA	-7.86	111.70	122.86
4	A	315	LEU	CA-C-N	7.86	133.55	121.53
4	A	315	LEU	C-N-CA	7.86	133.55	121.53
5	B	231	PRO	CA-CB-CG	-7.86	89.58	104.50
5	B	302	CYS	CB-CA-C	7.85	122.64	109.84
6	C	58	LEU	N-CA-C	7.85	121.90	110.28
6	C	161	LYS	CB-CA-C	-7.85	96.26	109.53
9	H	125	LEU	N-CA-C	7.85	121.70	108.90
7	E	24	LYS	CA-C-O	-7.85	112.23	120.55
4	A	57	ARG	CB-CG-CD	7.85	129.35	111.30
4	A	687	LYS	CB-CA-C	7.85	126.04	110.42
7	E	36	GLU	N-CA-C	7.84	127.51	110.80
10	I	81	ARG	CB-CA-C	7.84	120.87	111.22
4	A	230	ARG	CA-C-N	-7.84	110.04	119.84
4	A	230	ARG	C-N-CA	-7.84	110.04	119.84
10	I	7	CYS	N-CA-C	7.84	121.78	110.10
5	B	628	THR	N-CA-CB	-7.84	99.90	111.51
4	A	89	PRO	N-CD-CG	-7.84	91.44	103.20
4	A	330	LYS	CA-C-N	-7.84	105.07	121.06
4	A	330	LYS	C-N-CA	-7.84	105.07	121.06
4	A	1331	SER	N-CA-CB	7.84	122.09	110.49
7	E	138	ALA	N-CA-CB	-7.83	97.25	110.49
5	B	285	ILE	CA-C-N	-7.83	109.00	120.28
5	B	285	ILE	C-N-CA	-7.83	109.00	120.28
5	B	785	TYR	CA-C-N	-7.83	108.07	120.60
5	B	785	TYR	C-N-CA	-7.83	108.07	120.60
4	A	1020	CYS	CA-C-N	-7.83	110.32	120.65
4	A	1020	CYS	C-N-CA	-7.83	110.32	120.65
6	C	198	ALA	CA-C-N	-7.83	109.10	122.56
6	C	198	ALA	C-N-CA	-7.83	109.10	122.56
7	E	185	ALA	CA-C-N	-7.82	107.89	121.66
7	E	185	ALA	C-N-CA	-7.82	107.89	121.66
4	A	972	HIS	CA-C-O	7.82	131.69	120.51
5	B	316	PRO	CA-C-N	-7.82	108.21	120.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	316	PRO	C-N-CA	-7.82	108.21	120.88
6	C	199	LYS	CA-C-N	-7.82	107.90	122.60
6	C	199	LYS	C-N-CA	-7.82	107.90	122.60
7	E	200	ARG	NE-CZ-NH1	-7.82	113.68	121.50
4	A	1327	ILE	O-C-N	7.82	132.34	122.57
5	B	241	ARG	CD-NE-CZ	7.82	135.35	124.40
4	A	499	ALA	O-C-N	7.82	130.12	122.07
4	A	541	ILE	CA-C-N	-7.82	108.81	122.64
4	A	541	ILE	C-N-CA	-7.82	108.81	122.64
4	A	795	GLU	CB-CG-CD	7.82	125.89	112.60
9	H	126	GLU	CA-C-N	7.82	136.73	121.41
9	H	126	GLU	C-N-CA	7.82	136.73	121.41
10	I	25	LEU	CA-C-O	7.82	128.99	120.71
6	C	264	GLN	CB-CG-CD	7.81	125.88	112.60
4	A	221	SER	CA-CB-OG	-7.81	95.47	111.10
4	A	971	PHE	O-C-N	7.81	131.03	122.05
5	B	164	LYS	CA-CB-CG	7.81	129.72	114.10
5	B	532	ALA	CA-C-O	7.81	127.63	119.51
6	C	39	ALA	N-CA-C	7.81	122.56	112.41
4	A	658	LEU	CB-CG-CD1	7.80	134.11	110.70
4	A	1288	ASP	CA-C-N	-7.80	108.37	121.64
4	A	1288	ASP	C-N-CA	-7.80	108.37	121.64
6	C	254	LYS	CA-C-N	-7.80	111.20	120.72
6	C	254	LYS	C-N-CA	-7.80	111.20	120.72
4	A	681	GLU	CB-CG-CD	7.80	125.86	112.60
10	I	18	GLU	CA-C-N	-7.80	108.59	122.32
10	I	18	GLU	C-N-CA	-7.80	108.59	122.32
5	B	812	LEU	N-CA-CB	-7.80	98.11	110.98
4	A	847	ASP	N-CA-C	-7.79	104.20	112.93
5	B	636	PRO	N-CA-CB	7.79	111.43	103.25
12	K	55	LYS	CB-CA-C	7.79	123.34	111.18
4	A	977	LYS	CB-CG-CD	7.79	129.22	111.30
6	C	216	GLY	CA-C-N	-7.79	109.45	121.92
6	C	216	GLY	C-N-CA	-7.79	109.45	121.92
8	F	151	LEU	CA-CB-CG	-7.79	89.04	116.30
5	B	468	GLU	N-CA-C	7.79	127.39	110.80
13	L	62	LYS	CG-CD-CE	7.79	129.21	111.30
4	A	215	SER	N-CA-C	7.79	121.88	110.59
5	B	1012	ILE	N-CA-C	7.79	121.42	109.12
5	B	1214	PRO	N-CA-C	-7.78	96.43	112.47
9	H	115	TYR	CA-C-O	7.78	131.34	120.52
12	K	30	ALA	CA-C-N	7.78	134.10	122.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	K	30	ALA	C-N-CA	7.78	134.10	122.58
5	B	605	ARG	NE-CZ-NH2	-7.78	112.20	119.20
4	A	461	LYS	CA-CB-CG	7.78	129.66	114.10
5	B	38	PHE	N-CA-C	7.78	127.36	110.80
11	J	25	LEU	CB-CG-CD1	-7.78	87.37	110.70
6	C	212	PRO	N-CA-CB	-7.78	95.54	103.08
5	B	826	ALA	CA-C-N	7.77	132.68	121.80
5	B	826	ALA	C-N-CA	7.77	132.68	121.80
5	B	265	SER	O-C-N	-7.77	112.25	122.59
6	C	86	CYS	CA-C-O	-7.77	113.31	121.55
10	I	58	VAL	N-CA-C	-7.77	97.29	108.17
2	T	12	DC	C4'-C3'-O3'	7.77	121.65	110.00
7	E	162	ARG	NE-CZ-NH1	7.77	129.27	121.50
11	J	25	LEU	O-C-N	7.77	131.57	122.17
4	A	905	ASP	CA-CB-CG	7.76	120.36	112.60
4	A	1428	VAL	CA-CB-CG2	-7.76	97.20	110.40
13	L	45	ALA	CA-C-N	7.76	135.94	121.97
13	L	45	ALA	C-N-CA	7.76	135.94	121.97
4	A	1236	LEU	N-CA-C	7.76	121.58	108.23
10	I	109	ILE	CB-CA-C	-7.76	99.00	110.33
5	B	632	ARG	NE-CZ-NH1	-7.76	113.74	121.50
5	B	976	ILE	CA-C-N	-7.76	106.20	121.41
5	B	976	ILE	C-N-CA	-7.76	106.20	121.41
5	B	949	VAL	O-C-N	-7.76	114.63	122.62
6	C	219	PHE	CA-C-N	-7.76	110.47	121.72
6	C	219	PHE	C-N-CA	-7.76	110.47	121.72
6	C	257	SER	O-C-N	7.76	132.58	122.42
7	E	54	GLN	CA-C-O	7.76	131.80	122.41
5	B	1141	HIS	N-CA-C	-7.75	103.62	113.23
13	L	68	GLU	N-CA-C	-7.75	97.44	109.76
6	C	163	ILE	CB-CA-C	-7.75	99.02	110.33
9	H	58	THR	CB-CA-C	-7.75	93.40	110.67
5	B	1112	GLN	N-CA-C	-7.74	99.67	110.35
6	C	165	LYS	N-CA-CB	7.74	123.58	110.49
7	E	17	ARG	CG-CD-NE	7.74	129.04	112.00
7	E	26	ARG	N-CA-CB	7.74	122.14	110.22
4	A	265	LYS	CA-C-O	7.74	128.16	119.41
5	B	415	GLN	CA-C-N	-7.74	108.53	121.92
5	B	415	GLN	C-N-CA	-7.74	108.53	121.92
10	I	84	VAL	CA-C-N	-7.74	109.70	122.39
10	I	84	VAL	C-N-CA	-7.74	109.70	122.39
4	A	90	VAL	N-CA-C	7.74	120.44	108.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1136	SER	N-CA-CB	-7.74	99.17	110.70
5	B	905	VAL	CB-CA-C	-7.74	98.60	111.29
5	B	595	ARG	NE-CZ-NH1	7.74	129.24	121.50
5	B	629	ASP	CA-C-O	-7.74	112.84	121.89
5	B	1180	PHE	N-CA-C	7.74	127.28	110.80
6	C	34	ARG	CA-C-N	-7.74	110.11	120.63
6	C	34	ARG	C-N-CA	-7.74	110.11	120.63
4	A	261	ASP	CB-CA-C	7.73	124.57	109.72
5	B	232	SER	CB-CA-C	-7.73	98.98	109.42
10	I	78	CYS	O-C-N	7.73	132.87	122.59
6	C	178	PHE	N-CA-CB	-7.73	98.95	111.24
4	A	982	THR	CA-CB-OG1	-7.73	98.01	109.60
4	A	336	ILE	CA-C-O	7.73	130.44	120.78
4	A	545	GLN	N-CA-C	7.72	127.25	110.80
4	A	1008	GLN	CB-CA-C	7.72	126.61	110.32
4	A	1299	VAL	CA-C-O	7.72	129.55	121.44
5	B	39	ARG	CA-C-N	-7.72	107.70	122.06
5	B	39	ARG	C-N-CA	-7.72	107.70	122.06
6	C	253	LYS	CB-CG-CD	7.72	129.06	111.30
10	I	20	LYS	N-CA-C	-7.72	94.36	110.80
4	A	945	GLU	N-CA-C	-7.71	94.37	110.80
4	A	200	ARG	CG-CD-NE	7.71	128.96	112.00
5	B	241	ARG	N-CA-CB	-7.71	99.08	110.49
5	B	307	ASP	N-CA-C	7.71	120.37	110.65
5	B	1110	PRO	N-CA-C	7.71	122.36	111.33
7	E	42	PHE	CA-C-O	7.71	128.29	119.27
5	B	466	TRP	N-CA-C	7.71	127.22	110.80
6	C	3	GLU	N-CA-C	7.71	132.59	111.00
12	K	76	GLN	CA-C-N	7.71	134.91	122.81
12	K	76	GLN	C-N-CA	7.71	134.91	122.81
4	A	739	ASP	CB-CA-C	7.71	126.09	109.99
4	A	99	ILE	N-CA-C	7.70	125.36	109.34
4	A	481	ASP	CB-CA-C	7.70	128.38	112.44
4	A	729	ALA	N-CA-C	-7.70	102.57	110.97
6	C	149	LYS	CB-CA-C	-7.70	98.79	110.88
12	K	77	THR	N-CA-C	7.70	122.04	109.72
5	B	798	TYR	OH-CZ-CE2	7.70	143.00	119.90
4	A	1223	ASP	CB-CA-C	7.70	125.74	110.42
12	K	34	THR	OG1-CB-CG2	7.70	124.69	109.30
6	C	32	SER	CA-CB-OG	-7.70	95.70	111.10
5	B	326	ASP	CB-CA-C	-7.70	95.10	110.42
4	A	1029	ARG	NE-CZ-NH2	-7.69	112.28	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	C	255	VAL	O-C-N	7.69	130.17	121.94
4	A	1324	PRO	CA-C-N	-7.69	107.68	121.14
4	A	1324	PRO	C-N-CA	-7.69	107.68	121.14
10	I	109	ILE	O-C-N	7.69	131.50	123.20
4	A	495	GLU	N-CA-C	-7.69	102.87	111.71
5	B	345	LYS	CD-CE-NZ	7.69	136.50	111.90
9	H	52	GLN	CB-CA-C	7.69	125.72	110.42
5	B	67	SER	CA-CB-OG	7.69	126.47	111.10
5	B	195	CYS	CB-CA-C	-7.69	96.95	109.56
4	A	927	VAL	CG1-CB-CG2	-7.68	93.89	110.80
4	A	1115	SER	CA-C-N	7.68	135.18	122.73
4	A	1115	SER	C-N-CA	7.68	135.18	122.73
4	A	254	GLU	N-CA-C	-7.68	94.44	110.80
5	B	1052	VAL	N-CA-CB	7.68	119.54	110.55
5	B	1072	MET	CA-CB-CG	7.68	129.46	114.10
4	A	50	ILE	N-CA-CB	7.67	123.89	111.23
5	B	766	ARG	NH1-CZ-NH2	7.67	129.28	119.30
4	A	788	SER	CA-CB-OG	-7.67	95.76	111.10
6	C	232	VAL	N-CA-C	-7.67	97.41	108.53
4	A	1303	GLU	N-CA-CB	-7.67	99.67	111.56
5	B	111	ALA	CB-CA-C	-7.67	98.76	110.26
4	A	107	CYS	O-C-N	7.66	132.62	123.27
5	B	1066	SER	CB-CA-C	-7.66	101.80	111.22
7	E	11	ARG	NE-CZ-NH1	-7.66	113.84	121.50
12	K	49	GLU	CA-C-N	-7.66	106.90	121.54
12	K	49	GLU	C-N-CA	-7.66	106.90	121.54
8	F	123	LYS	O-C-N	-7.66	111.05	122.39
4	A	489	LEU	CA-CB-CG	7.66	143.12	116.30
4	A	912	LEU	CA-C-N	-7.66	107.92	120.87
4	A	912	LEU	C-N-CA	-7.66	107.92	120.87
4	A	1211	GLN	N-CA-C	-7.66	102.93	111.28
2	T	12	DC	C2'-C3'-O3'	-7.66	100.01	111.50
4	A	1369	ALA	N-CA-C	7.66	127.11	110.80
4	A	249	SER	CB-CA-C	7.66	125.66	110.42
4	A	323	LYS	CA-CB-CG	7.66	129.41	114.10
4	A	417	TYR	CE1-CZ-OH	7.66	142.87	119.90
4	A	434	ARG	CG-CD-NE	7.66	128.84	112.00
4	A	562	THR	N-CA-C	-7.66	99.92	109.64
4	A	861	GLY	CA-C-O	7.66	127.64	119.07
10	I	45	ARG	NE-CZ-NH2	-7.66	112.31	119.20
5	B	938	SER	CB-CA-C	7.65	122.81	109.80
12	K	4	PRO	O-C-N	7.65	132.97	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	565	ILE	O-C-N	7.65	131.41	122.69
4	A	430	TRP	N-CA-CB	-7.65	98.54	111.31
5	B	98	THR	N-CA-C	7.64	122.48	110.32
5	B	632	ARG	CA-C-N	-7.64	110.46	121.85
5	B	632	ARG	C-N-CA	-7.64	110.46	121.85
10	I	60	GLN	N-CA-CB	7.64	122.24	109.78
12	K	102	LYS	CA-C-N	7.64	130.74	120.65
12	K	102	LYS	C-N-CA	7.64	130.74	120.65
5	B	909	ASP	CA-C-N	-7.64	109.72	121.18
5	B	909	ASP	C-N-CA	-7.64	109.72	121.18
9	H	136	LYS	O-C-N	7.64	132.54	122.15
10	I	16	PRO	N-CD-CG	-7.64	91.74	103.20
4	A	1290	LYS	CG-CD-CE	7.64	128.87	111.30
4	A	991	LYS	CG-CD-CE	7.63	128.86	111.30
4	A	1095	THR	O-C-N	7.63	132.74	122.59
5	B	1052	VAL	CG1-CB-CG2	-7.63	94.00	110.80
4	A	935	GLN	CA-C-N	-7.63	108.39	120.60
4	A	935	GLN	C-N-CA	-7.63	108.39	120.60
7	E	69	ILE	N-CA-CB	-7.63	103.82	112.21
7	E	172	GLU	CB-CG-CD	7.63	125.57	112.60
4	A	367	PRO	N-CA-C	-7.63	97.98	112.01
5	B	526	GLU	CG-CD-OE2	-7.62	100.86	118.40
4	A	486	GLU	CA-CB-CG	7.62	129.34	114.10
4	A	578	LEU	CB-CA-C	7.62	124.72	110.63
4	A	710	LEU	CB-CA-C	-7.62	95.26	110.42
4	A	1234	GLU	CA-C-N	-7.62	112.21	122.72
4	A	1234	GLU	C-N-CA	-7.62	112.21	122.72
5	B	1222	ARG	CB-CG-CD	7.62	128.82	111.30
7	E	157	SER	CB-CA-C	-7.62	95.26	110.42
12	K	27	ALA	O-C-N	7.62	130.08	121.32
5	B	988	GLY	CA-C-N	-7.62	109.42	123.05
5	B	988	GLY	C-N-CA	-7.62	109.42	123.05
5	B	1104	HIS	N-CA-C	7.62	120.16	110.33
4	A	479	ASN	CB-CG-ND2	-7.62	104.98	116.40
5	B	510	LYS	CG-CD-CE	7.62	128.82	111.30
10	I	48	LEU	N-CA-C	-7.62	103.06	114.64
6	C	119	VAL	CG1-CB-CG2	7.61	127.55	110.80
4	A	223	GLY	N-CA-C	7.61	131.22	113.18
4	A	1277	GLU	CA-CB-CG	7.61	129.32	114.10
4	A	1345	ARG	NE-CZ-NH2	-7.61	112.35	119.20
5	B	288	ALA	N-CA-C	7.61	122.23	112.34
12	K	19	LEU	O-C-N	7.61	132.91	123.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	477	PRO	CA-C-N	-7.61	107.53	121.52
4	A	477	PRO	C-N-CA	-7.61	107.53	121.52
5	B	296	GLU	N-CA-CB	7.61	122.80	110.40
5	B	546	SER	CB-CA-C	-7.61	95.28	110.42
5	B	1091	TYR	CB-CA-C	-7.61	97.54	110.16
5	B	39	ARG	N-CA-CB	7.60	122.01	110.30
6	C	121	VAL	CA-CB-CG2	-7.60	97.48	110.40
5	B	638	PHE	CA-CB-CG	7.60	121.40	113.80
4	A	818	MET	N-CA-C	-7.60	103.27	112.54
4	A	896	ARG	CG-CD-NE	7.60	128.72	112.00
5	B	1135	ARG	CG-CD-NE	-7.60	95.29	112.00
5	B	197	PHE	N-CA-C	-7.60	103.74	113.16
4	A	924	LYS	CA-C-O	7.59	128.93	119.59
5	B	310	MET	CA-C-O	7.59	128.47	120.42
8	F	115	THR	CB-CA-C	-7.59	98.16	110.08
5	B	410	GLY	CA-C-O	7.59	132.38	121.52
5	B	311	LEU	O-C-N	7.59	130.17	122.12
5	B	125	SER	CA-C-O	7.59	129.53	121.33
6	C	3	GLU	CA-C-O	-7.59	107.90	120.80
5	B	399	ASP	N-CA-C	7.59	120.59	110.88
6	C	268	ASP	N-CA-CB	7.59	123.40	110.50
6	C	59	ALA	N-CA-C	7.58	121.75	110.52
8	F	76	LYS	CA-CB-CG	7.58	129.27	114.10
4	A	210	ILE	N-CA-CB	-7.58	98.72	111.23
4	A	1052	GLN	CB-CA-C	7.58	123.42	110.84
7	E	161	LYS	CD-CE-NZ	7.58	136.14	111.90
2	T	17	DG	C4'-C3'-C2'	7.57	113.76	102.40
4	A	974	ASP	CA-C-N	7.57	136.02	122.31
4	A	974	ASP	C-N-CA	7.57	136.02	122.31
4	A	1284	MET	CB-CG-SD	-7.57	89.98	112.70
4	A	1095	THR	CA-C-N	7.57	134.84	121.75
4	A	1095	THR	C-N-CA	7.57	134.84	121.75
4	A	1152	ILE	N-CA-C	7.57	125.08	109.34
8	F	107	VAL	CB-CA-C	7.57	123.14	110.95
5	B	1095	LEU	CA-C-N	-7.57	108.12	121.29
5	B	1095	LEU	C-N-CA	-7.57	108.12	121.29
10	I	35	VAL	O-C-N	-7.57	114.47	123.02
4	A	336	ILE	O-C-N	7.57	132.03	122.57
4	A	1035	TYR	CA-CB-CG	7.57	127.52	113.90
5	B	476	ARG	CD-NE-CZ	7.57	134.99	124.40
4	A	595	THR	CA-C-N	-7.56	107.09	121.54
4	A	595	THR	C-N-CA	-7.56	107.09	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	152	VAL	CB-CA-C	-7.56	97.60	111.36
5	B	94	LYS	N-CA-CB	7.56	123.27	110.49
8	F	103	MET	CA-C-N	7.56	133.56	122.82
8	F	103	MET	C-N-CA	7.56	133.56	122.82
5	B	539	LEU	O-C-N	7.56	131.79	123.10
5	B	982	SER	O-C-N	7.56	132.64	122.59
5	B	1205	GLN	CB-CG-CD	7.56	125.45	112.60
4	A	1025	ARG	N-CA-C	-7.56	102.64	111.03
9	H	82	PRO	N-CD-CG	-7.56	91.87	103.20
13	L	55	ILE	CA-C-O	-7.56	111.33	120.78
5	B	1010	LEU	CB-CA-C	7.55	122.87	109.65
11	J	47	ARG	CA-C-O	7.55	128.43	120.42
4	A	905	ASP	CB-CA-C	7.55	125.45	110.42
4	A	911	SER	CA-CB-OG	7.55	126.20	111.10
5	B	269	ILE	N-CA-C	7.55	118.68	108.11
6	C	202	PRO	N-CD-CG	-7.55	91.87	103.20
12	K	100	ALA	N-CA-CB	-7.55	97.73	110.49
13	L	26	THR	N-CA-CB	7.55	123.25	110.49
4	A	34	LYS	N-CA-C	-7.55	94.72	110.80
4	A	1327	ILE	N-CA-C	7.55	125.04	109.34
6	C	254	LYS	N-CA-C	-7.55	103.80	113.16
12	K	22	ASP	N-CA-CB	7.55	120.69	109.82
12	K	114	LEU	CB-CG-CD2	7.55	133.35	110.70
4	A	339	ASN	CA-C-N	-7.55	107.12	121.54
4	A	339	ASN	C-N-CA	-7.55	107.12	121.54
5	B	113	TYR	CA-C-O	7.55	126.53	119.59
12	K	99	GLY	CA-C-N	-7.55	107.13	121.54
12	K	99	GLY	C-N-CA	-7.55	107.13	121.54
4	A	176	LYS	CD-CE-NZ	7.54	136.04	111.90
5	B	351	TYR	CE1-CZ-OH	7.54	142.53	119.90
5	B	484	ASN	O-C-N	7.54	133.62	122.76
5	B	131	ASP	N-CA-C	-7.54	95.69	109.56
5	B	287	ARG	CB-CG-CD	7.54	128.64	111.30
7	E	53	PRO	CA-C-O	-7.54	106.88	120.60
4	A	528	LEU	CB-CA-C	7.54	123.01	109.29
5	B	470	LYS	CA-C-O	-7.54	109.73	120.51
5	B	1108	ARG	NE-CZ-NH2	-7.54	112.42	119.20
8	F	98	ALA	O-C-N	7.54	131.32	122.20
5	B	414	ALA	O-C-N	-7.54	114.13	122.12
5	B	1007	VAL	CB-CA-C	-7.54	97.65	111.36
5	B	1165	ILE	O-C-N	7.54	131.99	122.57
4	A	406	ILE	CB-CA-C	-7.53	98.90	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	H	117	SER	CA-C-O	7.53	128.52	120.46
9	H	96	VAL	CA-C-N	-7.53	109.60	123.01
9	H	96	VAL	C-N-CA	-7.53	109.60	123.01
6	C	83	SER	N-CA-C	7.53	119.18	110.97
4	A	624	SER	CB-CA-C	-7.53	100.68	111.14
6	C	77	ILE	CB-CA-C	-7.53	101.06	112.05
6	C	131	HIS	CB-CA-C	-7.53	95.34	110.17
5	B	128	LEU	N-CA-C	7.53	121.75	107.75
4	A	327	ALA	CA-C-N	-7.52	110.72	120.65
4	A	327	ALA	C-N-CA	-7.52	110.72	120.65
4	A	1368	MET	CA-CB-CG	-7.52	99.05	114.10
4	A	570	PRO	N-CA-CB	-7.52	95.35	103.25
9	H	12	VAL	N-CA-C	7.52	119.67	108.54
4	A	297	GLN	N-CA-CB	7.52	121.25	110.13
4	A	1419	ASP	O-C-N	7.51	131.79	123.22
6	C	20	PHE	CA-C-N	-7.51	111.89	122.71
6	C	20	PHE	C-N-CA	-7.51	111.89	122.71
10	I	21	GLU	N-CA-CB	-7.51	97.79	110.49
4	A	114	LEU	CA-CB-CG	-7.51	90.00	116.30
4	A	885	THR	CA-C-O	-7.51	111.61	120.10
5	B	368	GLU	CB-CA-C	-7.51	96.81	110.56
5	B	662	MET	CA-C-N	-7.51	107.19	121.54
5	B	662	MET	C-N-CA	-7.51	107.19	121.54
5	B	967	ARG	CA-CB-CG	7.51	129.12	114.10
13	L	57	LEU	CA-C-O	-7.51	113.10	121.51
8	F	138	LEU	CA-CB-CG	-7.51	90.02	116.30
5	B	192	LEU	CB-CG-CD1	7.51	133.22	110.70
5	B	655	LYS	CG-CD-CE	7.51	128.57	111.30
4	A	20	GLY	N-CA-C	7.51	121.19	110.46
6	C	61	GLU	N-CA-C	7.50	120.53	111.82
8	F	92	ARG	NE-CZ-NH2	-7.50	112.44	119.20
12	K	63	VAL	CA-CB-CG1	-7.50	97.64	110.40
4	A	11	LEU	CB-CG-CD1	-7.50	88.19	110.70
4	A	735	VAL	CA-CB-CG1	-7.50	97.64	110.40
5	B	1150	ARG	CA-CB-CG	-7.50	99.09	114.10
5	B	412	LEU	CB-CG-CD2	-7.50	88.19	110.70
4	A	150	THR	N-CA-CB	7.50	122.93	110.33
4	A	1081	LEU	N-CA-CB	7.50	123.25	110.50
4	A	1275	GLY	CA-C-O	-7.50	116.26	122.33
11	J	59	LYS	N-CA-CB	7.50	121.55	110.53
4	A	972	HIS	CB-CA-C	7.50	125.33	110.42
4	A	21	LEU	CA-C-N	-7.49	112.45	122.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	21	LEU	C-N-CA	-7.49	112.45	122.42
13	L	64	LEU	CD1-CG-CD2	7.49	127.28	110.80
4	A	450	LEU	N-CA-C	7.49	120.09	110.65
7	E	106	GLN	N-CA-C	-7.49	104.11	113.55
7	E	119	SER	O-C-N	7.49	132.47	122.43
5	B	1013	ASN	N-CA-C	7.49	119.34	109.83
7	E	45	LYS	CA-CB-CG	7.49	129.08	114.10
5	B	738	PHE	CA-C-N	-7.49	107.71	121.41
5	B	738	PHE	C-N-CA	-7.49	107.71	121.41
5	B	810	GLU	CA-CB-CG	-7.49	99.12	114.10
2	T	24	DT	C6-N1-C1'	7.49	130.58	119.35
5	B	1179	GLN	CA-C-O	7.49	128.78	120.70
9	H	38	LEU	N-CA-C	7.49	126.74	110.80
4	A	405	VAL	CA-C-O	-7.48	112.53	120.76
5	B	1067	ARG	O-C-N	7.48	132.14	122.04
5	B	1071	VAL	N-CA-C	7.48	119.10	109.30
4	A	1432	GLN	CA-C-N	-7.48	110.24	120.87
4	A	1432	GLN	C-N-CA	-7.48	110.24	120.87
5	B	274	PRO	CA-N-CD	-7.48	101.52	112.00
4	A	528	LEU	CB-CG-CD2	7.48	133.14	110.70
4	A	664	THR	CA-C-O	-7.48	109.81	120.51
4	A	1319	VAL	N-CA-CB	-7.48	100.74	111.21
5	B	249	ARG	N-CA-CB	7.48	123.13	110.49
5	B	1010	LEU	CA-C-N	-7.48	113.15	123.10
5	B	1010	LEU	C-N-CA	-7.48	113.15	123.10
7	E	52	ARG	CB-CG-CD	7.48	128.50	111.30
4	A	41	MET	CA-C-N	-7.48	112.47	122.42
4	A	41	MET	C-N-CA	-7.48	112.47	122.42
5	B	659	ALA	CA-C-O	7.48	128.02	119.27
8	F	136	ARG	NE-CZ-NH2	7.48	125.93	119.20
4	A	360	GLU	N-CA-CB	7.47	122.81	110.63
4	A	991	LYS	CA-C-N	-7.47	109.66	122.14
4	A	991	LYS	C-N-CA	-7.47	109.66	122.14
11	J	43	ARG	CA-C-O	7.47	129.41	121.19
4	A	927	VAL	CA-CB-CG1	7.47	123.10	110.40
5	B	448	ILE	CB-CA-C	-7.47	99.04	111.29
4	A	372	LYS	CG-CD-CE	7.47	128.48	111.30
5	B	944	THR	OG1-CB-CG2	7.47	124.24	109.30
5	B	426	LYS	CD-CE-NZ	7.47	135.80	111.90
4	A	465	TYR	CA-C-N	-7.47	112.90	123.20
4	A	465	TYR	C-N-CA	-7.47	112.90	123.20
4	A	720	ARG	N-CA-C	-7.46	102.51	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	H	46	LEU	CB-CA-C	-7.46	94.71	110.31
5	B	482	VAL	N-CA-CB	-7.46	98.92	111.23
5	B	681	TRP	CB-CA-C	-7.46	95.57	110.42
5	B	62	ILE	CB-CA-C	-7.46	103.34	110.65
5	B	228	LYS	CA-C-O	-7.46	111.10	120.20
5	B	968	VAL	CA-C-N	-7.46	109.98	122.29
5	B	968	VAL	C-N-CA	-7.46	109.98	122.29
5	B	1140	ALA	CB-CA-C	-7.46	95.57	110.42
12	K	86	ALA	O-C-N	7.46	130.03	122.12
5	B	812	LEU	O-C-N	7.46	131.22	122.19
4	A	540	PHE	CA-C-O	7.46	130.08	121.28
4	A	550	LEU	N-CA-C	-7.46	101.92	111.02
4	A	1149	ALA	CA-C-N	-7.46	112.47	122.99
4	A	1149	ALA	C-N-CA	-7.46	112.47	122.99
5	B	235	SER	CA-CB-OG	-7.46	96.18	111.10
5	B	1014	PRO	CA-CB-CG	-7.46	90.33	104.50
5	B	1049	ASP	CA-C-O	7.46	128.45	119.43
5	B	70	ILE	N-CA-CB	-7.45	98.83	111.50
6	C	202	PRO	CB-CA-C	7.45	123.86	111.56
5	B	728	ARG	CA-C-N	-7.45	112.83	123.11
5	B	728	ARG	C-N-CA	-7.45	112.83	123.11
6	C	148	ARG	CB-CA-C	-7.45	105.09	114.40
12	K	86	ALA	CA-C-N	7.45	130.57	120.44
12	K	86	ALA	C-N-CA	7.45	130.57	120.44
4	A	686	ALA	N-CA-C	7.45	122.02	112.34
10	I	103	CYS	N-CA-C	-7.44	101.25	110.41
5	B	655	LYS	N-CA-CB	7.44	121.90	110.14
5	B	242	SER	CA-C-O	-7.44	112.36	120.92
6	C	208	GLU	CB-CG-CD	7.44	125.25	112.60
5	B	1116	ARG	NE-CZ-NH2	-7.44	112.50	119.20
5	B	111	ALA	CA-C-N	-7.43	111.09	122.09
5	B	111	ALA	C-N-CA	-7.43	111.09	122.09
5	B	532	ALA	N-CA-CB	-7.43	96.81	111.60
5	B	793	ALA	N-CA-C	-7.43	94.96	110.80
9	H	144	ILE	N-CA-CB	-7.43	98.97	110.86
4	A	1362	TYR	N-CA-C	-7.43	98.11	109.85
7	E	154	ILE	N-CA-CB	-7.43	98.97	111.23
4	A	505	CYS	N-CA-CB	-7.43	99.71	110.56
5	B	575	PRO	CA-C-N	7.43	135.73	121.54
5	B	575	PRO	C-N-CA	7.43	135.73	121.54
5	B	1080	LYS	CA-C-O	7.43	129.46	121.44
4	A	1408	ILE	N-CA-C	-7.42	101.49	111.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	1204	PHE	O-C-N	7.42	129.99	122.12
4	A	1124	HIS	CA-C-O	7.42	131.12	120.51
5	B	799	PRO	N-CA-C	-7.42	97.18	112.47
4	A	1399	ARG	CB-CA-C	7.42	123.30	110.68
5	B	1055	ILE	CA-CB-CG1	-7.42	97.78	110.40
4	A	722	LEU	CA-CB-CG	7.42	142.26	116.30
4	A	1236	LEU	CA-C-N	-7.42	112.16	122.69
4	A	1236	LEU	C-N-CA	-7.42	112.16	122.69
4	A	1338	VAL	CB-CA-C	-7.42	99.12	111.29
5	B	101	MET	CG-SD-CE	7.42	117.22	100.90
5	B	190	TYR	CA-C-N	-7.42	110.80	120.44
5	B	190	TYR	C-N-CA	-7.42	110.80	120.44
9	H	40	LEU	CB-CA-C	-7.42	96.27	109.70
4	A	967	ALA	CA-C-N	-7.42	107.37	121.54
4	A	967	ALA	C-N-CA	-7.42	107.37	121.54
5	B	790	ASP	CA-CB-CG	7.42	120.02	112.60
7	E	178	ILE	CA-C-O	7.42	129.53	121.67
10	I	45	ARG	CG-CD-NE	-7.42	95.69	112.00
9	H	144	ILE	CB-CA-C	7.41	121.43	110.98
2	T	22	DT	O3'-P-O5'	-7.41	92.89	104.00
10	I	17	ARG	CA-CB-CG	7.41	128.91	114.10
5	B	1143	ALA	CA-C-N	-7.40	107.40	121.54
5	B	1143	ALA	C-N-CA	-7.40	107.40	121.54
4	A	626	ASN	CA-C-O	7.40	128.47	120.55
4	A	107	CYS	CA-CB-SG	7.40	131.41	114.40
4	A	547	LEU	CA-CB-CG	-7.40	90.41	116.30
4	A	634	THR	CA-C-N	-7.40	109.98	122.11
4	A	634	THR	C-N-CA	-7.40	109.98	122.11
6	C	222	LYS	CB-CA-C	7.40	121.44	109.02
5	B	510	LYS	CA-C-O	7.39	128.29	121.34
4	A	420	ARG	CA-CB-CG	-7.39	99.31	114.10
4	A	973	ILE	N-CA-C	7.39	124.72	109.34
4	A	1052	GLN	CA-C-O	-7.39	112.37	121.02
4	A	1296	GLY	N-CA-C	7.39	130.70	113.18
9	H	111	LEU	N-CA-C	7.39	120.46	108.34
13	L	37	LYS	CA-CB-CG	7.39	128.88	114.10
6	C	148	ARG	CA-C-O	-7.39	112.81	119.91
12	K	66	PRO	N-CA-C	7.39	123.25	113.57
4	A	1153	TYR	N-CA-CB	-7.39	98.37	110.41
5	B	729	ILE	CA-C-N	-7.39	109.56	122.64
5	B	729	ILE	C-N-CA	-7.39	109.56	122.64
12	K	30	ALA	N-CA-C	7.39	120.59	108.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1305	VAL	N-CA-C	7.38	119.46	108.46
5	B	1009	ASP	N-CA-CB	-7.38	99.12	110.42
5	B	699	GLU	CG-CD-OE1	-7.38	101.42	118.40
10	I	11	ASN	CA-C-O	-7.38	109.95	120.51
11	J	26	GLN	O-C-N	7.38	132.65	122.46
4	A	988	LEU	CB-CA-C	-7.38	95.73	110.42
5	B	417	PHE	N-CA-C	-7.38	103.31	111.36
4	A	593	GLU	N-CA-CB	7.38	122.96	110.49
4	A	939	ASP	CB-CG-OD2	-7.38	101.42	118.40
4	A	406	ILE	O-C-N	7.38	131.00	123.10
4	A	526	ASP	O-C-N	7.38	129.67	122.07
10	I	115	LYS	CD-CE-NZ	7.38	135.50	111.90
4	A	743	VAL	CA-CB-CG1	-7.37	97.86	110.40
9	H	101	ALA	O-C-N	7.37	132.78	123.19
4	A	1232	ASN	CB-CA-C	-7.37	97.63	109.13
5	B	1068	GLY	CA-C-N	-7.37	109.47	122.07
5	B	1068	GLY	C-N-CA	-7.37	109.47	122.07
5	B	983	ARG	N-CA-CB	-7.37	96.41	111.07
5	B	1123	SER	CB-CA-C	7.37	123.02	110.79
5	B	1128	LEU	CA-C-N	-7.37	111.67	122.65
5	B	1128	LEU	C-N-CA	-7.37	111.67	122.65
6	C	187	LYS	CB-CA-C	7.37	125.08	110.42
4	A	31	SER	O-C-N	7.37	132.03	122.23
5	B	987	LYS	CB-CG-CD	7.37	128.24	111.30
4	A	369	SER	CB-CA-C	-7.37	95.76	110.42
4	A	783	THR	O-C-N	7.37	130.04	122.09
5	B	22	SER	N-CA-C	-7.37	95.11	110.80
5	B	949	VAL	CA-CB-CG1	-7.37	97.88	110.40
7	E	141	VAL	N-CA-C	-7.37	101.88	111.09
4	A	907	THR	CA-C-N	7.36	134.32	122.32
4	A	907	THR	C-N-CA	7.36	134.32	122.32
5	B	461	LEU	CA-C-O	7.36	131.04	120.51
7	E	178	ILE	N-CA-CB	7.36	122.10	112.60
4	A	49	LYS	CD-CE-NZ	7.36	135.46	111.90
4	A	477	PRO	CB-CA-C	-7.36	99.42	111.56
4	A	735	VAL	O-C-N	-7.36	114.25	121.90
9	H	117	SER	N-CA-C	7.36	121.02	107.99
5	B	1015	HIS	CA-CB-CG	-7.36	106.44	113.80
4	A	927	VAL	CA-C-N	-7.35	110.63	120.63
4	A	927	VAL	C-N-CA	-7.35	110.63	120.63
4	A	237	THR	CB-CA-C	-7.35	95.79	110.42
4	A	447	GLN	CA-C-O	7.35	128.50	120.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1271	ILE	CA-C-O	7.35	129.72	120.75
7	E	39	LEU	CA-CB-CG	-7.35	90.59	116.30
4	A	129	LYS	CG-CD-CE	7.34	128.19	111.30
6	C	143	LEU	CB-CG-CD2	-7.34	88.67	110.70
9	H	107	VAL	O-C-N	7.34	132.29	122.31
12	K	22	ASP	N-CA-C	7.34	122.03	110.58
4	A	1344	GLY	CA-C-O	7.34	127.99	120.80
12	K	63	VAL	CA-C-O	7.34	130.62	120.86
5	B	755	ILE	N-CA-C	7.34	122.15	112.98
11	J	53	HIS	CB-CA-C	-7.34	95.82	110.42
4	A	885	THR	N-CA-C	7.33	120.14	111.71
5	B	946	ASN	CA-CB-CG	-7.33	105.27	112.60
6	C	235	VAL	CA-C-O	7.33	128.17	120.25
7	E	180	ARG	CA-C-O	7.33	128.32	120.55
4	A	85	ASP	CB-CA-C	7.33	121.34	109.90
4	A	1162	VAL	CA-CB-CG1	-7.33	97.94	110.40
4	A	1288	ASP	N-CA-CB	-7.33	99.50	110.71
7	E	74	ASP	CA-C-N	7.33	134.31	120.97
7	E	74	ASP	C-N-CA	7.33	134.31	120.97
9	H	25	ARG	CA-C-N	7.33	133.18	122.99
9	H	25	ARG	C-N-CA	7.33	133.18	122.99
4	A	58	LEU	CB-CG-CD2	-7.33	88.71	110.70
4	A	491	VAL	N-CA-CB	7.33	121.47	111.21
4	A	359	LEU	O-C-N	-7.33	114.23	123.24
4	A	806	ARG	NH1-CZ-NH2	7.33	128.82	119.30
11	J	7	CYS	CA-C-O	7.33	129.24	120.81
4	A	370	ILE	CA-C-O	7.33	128.16	120.25
5	B	99	LYS	CA-C-O	7.33	127.79	120.17
5	B	855	PHE	CB-CA-C	-7.33	102.35	111.43
4	A	123	ARG	CD-NE-CZ	7.32	134.65	124.40
9	H	89	LEU	CA-CB-CG	7.32	141.93	116.30
4	A	713	SER	N-CA-CB	-7.32	99.02	110.44
5	B	50	SER	CA-C-O	-7.32	113.07	120.90
5	B	1217	TYR	OH-CZ-CE2	7.32	141.86	119.90
4	A	208	LEU	N-CA-C	-7.32	102.09	111.02
5	B	693	ILE	CA-C-N	-7.32	111.75	122.65
5	B	693	ILE	C-N-CA	-7.32	111.75	122.65
5	B	759	PRO	CA-C-N	-7.32	110.49	120.44
5	B	759	PRO	C-N-CA	-7.32	110.49	120.44
3	N	10	DG	O3'-P-O5'	7.32	114.97	104.00
4	A	248	PRO	CA-C-N	7.32	135.51	121.54
4	A	248	PRO	C-N-CA	7.32	135.51	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	E	165	LEU	N-CA-C	7.32	126.38	110.80
5	B	327	ARG	CA-CB-CG	7.31	128.73	114.10
4	A	1410	PHE	CA-C-N	-7.31	110.37	120.38
4	A	1410	PHE	C-N-CA	-7.31	110.37	120.38
6	C	243	VAL	CA-C-O	-7.31	111.64	120.78
4	A	934	LYS	CA-C-O	7.30	130.95	120.51
5	B	90	ILE	N-CA-C	7.30	131.45	111.00
4	A	800	VAL	CA-C-N	-7.30	109.50	122.42
4	A	800	VAL	C-N-CA	-7.30	109.50	122.42
4	A	248	PRO	O-C-N	7.30	132.49	122.64
5	B	1204	PHE	CA-C-N	7.30	130.28	120.65
5	B	1204	PHE	C-N-CA	7.30	130.28	120.65
6	C	165	LYS	CA-C-N	-7.30	109.81	122.36
6	C	165	LYS	C-N-CA	-7.30	109.81	122.36
9	H	13	SER	N-CA-C	7.30	122.35	111.04
4	A	1206	ASP	O-C-N	7.29	132.34	122.57
12	K	76	GLN	O-C-N	7.29	131.84	123.31
5	B	234	ILE	CA-C-N	-7.29	108.94	120.17
5	B	234	ILE	C-N-CA	-7.29	108.94	120.17
5	B	292	ILE	CA-C-N	-7.29	111.52	119.98
5	B	292	ILE	C-N-CA	-7.29	111.52	119.98
5	B	889	THR	N-CA-CB	7.29	122.51	110.63
4	A	525	GLN	N-CA-C	7.28	126.31	110.80
5	B	797	TYR	N-CA-C	7.28	119.30	111.36
12	K	36	GLU	CG-CD-OE1	-7.28	101.65	118.40
4	A	322	VAL	CA-C-N	-7.28	107.63	121.54
4	A	322	VAL	C-N-CA	-7.28	107.63	121.54
5	B	1018	PRO	CA-N-CD	-7.28	101.81	112.00
11	J	51	LEU	CB-CA-C	7.28	124.64	110.67
4	A	839	ARG	NE-CZ-NH2	7.28	125.75	119.20
12	K	100	ALA	N-CA-C	7.28	126.30	110.80
4	A	555	ASP	CA-C-N	7.28	135.44	121.54
4	A	555	ASP	C-N-CA	7.28	135.44	121.54
4	A	1110	ASN	OD1-CG-ND2	-7.28	115.33	122.60
5	B	416	LEU	CB-CA-C	-7.28	96.05	109.29
4	A	911	SER	N-CA-C	-7.27	103.06	112.23
4	A	1048	ASN	CA-CB-CG	7.27	119.87	112.60
4	A	929	LEU	CD1-CG-CD2	7.27	126.79	110.80
9	H	144	ILE	CA-CB-CG1	-7.27	98.04	110.40
5	B	41	LYS	CA-C-N	-7.27	108.31	121.32
5	B	41	LYS	C-N-CA	-7.27	108.31	121.32
5	B	305	VAL	N-CA-CB	-7.26	103.89	112.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	595	ARG	CG-CD-NE	7.26	127.98	112.00
10	I	91	ARG	CB-CA-C	7.26	124.88	110.42
4	A	1056	SER	CB-CA-C	7.26	124.40	109.95
4	A	329	LEU	CA-CB-CG	-7.26	90.88	116.30
8	F	94	LEU	CA-CB-CG	-7.26	90.88	116.30
9	H	25	ARG	O-C-N	7.26	131.69	123.19
4	A	58	LEU	CB-CA-C	-7.26	98.01	109.84
4	A	931	GLU	O-C-N	7.26	132.25	122.59
4	A	1207	LEU	CB-CA-C	-7.26	97.62	109.89
5	B	597	MET	O-C-N	7.26	129.87	122.03
5	B	1192	TYR	N-CA-CB	-7.26	98.61	110.59
4	A	387	ARG	N-CA-CB	7.26	120.50	109.98
4	A	891	ALA	CA-C-N	-7.26	111.24	122.49
4	A	891	ALA	C-N-CA	-7.26	111.24	122.49
5	B	420	LEU	N-CA-C	-7.26	104.41	113.55
7	E	106	GLN	N-CA-CB	7.26	120.92	110.40
5	B	1067	ARG	NE-CZ-NH1	7.25	128.75	121.50
4	A	845	LEU	CA-CB-CG	-7.25	90.92	116.30
5	B	961	LEU	N-CA-CB	-7.25	98.23	110.49
5	B	1128	LEU	N-CA-C	-7.25	98.71	109.81
4	A	98	LYS	CG-CD-CE	7.25	127.98	111.30
5	B	211	VAL	N-CA-C	7.25	119.05	108.53
5	B	971	THR	CA-CB-OG1	-7.25	98.72	109.60
5	B	960	GLY	N-CA-C	7.25	130.36	113.18
3	N	9	DC	O3'-P-O5'	-7.25	93.13	104.00
4	A	1357	ALA	N-CA-C	7.25	126.24	110.80
5	B	170	LEU	CA-CB-CG	-7.25	90.93	116.30
7	E	5	ASN	CA-C-N	7.25	131.69	120.82
7	E	5	ASN	C-N-CA	7.25	131.69	120.82
8	F	149	GLU	CB-CG-CD	7.25	124.92	112.60
4	A	50	ILE	CB-CA-C	-7.25	99.41	111.29
4	A	462	VAL	N-CA-C	7.25	121.23	109.78
4	A	932	GLU	CB-CA-C	-7.25	96.00	110.42
4	A	966	ASN	CA-C-N	-7.25	107.70	121.54
4	A	966	ASN	C-N-CA	-7.25	107.70	121.54
5	B	489	SER	CA-CB-OG	7.25	125.59	111.10
7	E	183	PRO	N-CA-C	7.25	127.39	112.47
4	A	758	ILE	CA-C-O	7.24	128.53	120.85
4	A	890	ASP	CA-C-N	7.24	130.29	120.44
4	A	890	ASP	C-N-CA	7.24	130.29	120.44
4	A	1382	THR	CB-CA-C	-7.24	101.82	111.82
6	C	9	LYS	N-CA-C	-7.24	95.44	108.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	K	6	ARG	N-CA-C	7.24	118.86	110.97
4	A	956	LEU	N-CA-C	7.24	123.45	107.95
4	A	1010	ALA	O-C-N	7.24	130.51	122.11
5	B	497	ARG	CD-NE-CZ	7.24	134.54	124.40
4	A	481	ASP	CA-CB-CG	7.24	119.84	112.60
4	A	768	GLN	N-CA-CB	-7.24	98.83	110.63
6	C	3	GLU	CB-CG-CD	7.24	124.90	112.60
5	B	696	GLU	CA-C-N	-7.24	108.64	120.72
5	B	696	GLU	C-N-CA	-7.24	108.64	120.72
5	B	889	THR	N-CA-C	7.24	121.82	110.17
7	E	159	ASP	CA-CB-CG	7.24	119.84	112.60
11	J	62	ARG	CA-C-N	-7.24	112.44	122.93
11	J	62	ARG	C-N-CA	-7.24	112.44	122.93
4	A	472	LEU	N-CA-C	7.23	120.08	111.33
4	A	1224	LEU	CD1-CG-CD2	-7.23	94.89	110.80
6	C	97	VAL	CA-C-N	-7.23	114.22	123.19
6	C	97	VAL	C-N-CA	-7.23	114.22	123.19
7	E	69	ILE	N-CA-C	-7.23	105.55	113.43
5	B	367	LEU	CB-CA-C	7.23	124.81	110.42
5	B	876	LYS	CA-C-O	-7.23	112.61	119.55
4	A	804	TYR	N-CA-CB	7.23	122.61	110.32
4	A	1193	LEU	CA-C-N	-7.23	111.47	123.33
4	A	1193	LEU	C-N-CA	-7.23	111.47	123.33
6	C	42	PRO	N-CD-CG	-7.23	92.36	103.20
5	B	663	ALA	N-CA-CB	-7.23	98.28	110.49
5	B	221	ASN	O-C-N	7.22	132.00	122.47
5	B	565	PRO	CA-C-N	-7.22	106.19	121.80
5	B	565	PRO	C-N-CA	-7.22	106.19	121.80
5	B	993	THR	CA-CB-CG2	-7.22	98.22	110.50
5	B	193	LYS	CG-CD-CE	7.22	127.91	111.30
5	B	457	LEU	CA-CB-CG	-7.22	91.02	116.30
5	B	571	PRO	N-CA-C	7.22	124.51	113.75
5	B	1097	HIS	CA-C-N	-7.22	110.69	122.82
5	B	1097	HIS	C-N-CA	-7.22	110.69	122.82
4	A	453	MET	N-CA-C	7.22	126.17	110.80
5	B	53	GLN	CA-C-O	7.22	128.47	119.59
5	B	235	SER	CB-CA-C	-7.22	95.30	110.45
9	H	2	SER	N-CA-CB	-7.22	98.23	110.50
5	B	261	ARG	CB-CG-CD	7.21	127.89	111.30
5	B	942	ARG	CA-C-N	-7.21	107.77	121.54
5	B	942	ARG	C-N-CA	-7.21	107.77	121.54
6	C	99	LEU	N-CA-C	7.21	120.08	109.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	H	137	GLN	O-C-N	7.21	132.77	123.11
5	B	544	CYS	CA-C-N	-7.21	112.97	122.99
5	B	544	CYS	C-N-CA	-7.21	112.97	122.99
5	B	736	THR	CA-C-N	-7.21	107.77	121.54
5	B	736	THR	C-N-CA	-7.21	107.77	121.54
5	B	822	ASN	CA-C-O	-7.21	112.85	122.51
6	C	251	LEU	N-CA-C	-7.21	103.11	110.97
5	B	352	ALA	CA-C-O	-7.21	112.78	120.42
5	B	620	ARG	CA-CB-CG	7.21	128.51	114.10
4	A	129	LYS	CB-CG-CD	7.21	127.87	111.30
4	A	651	LYS	N-CA-C	7.21	126.15	110.80
4	A	1361	SER	CB-CA-C	7.21	121.00	109.61
5	B	372	SER	N-CA-CB	7.20	122.35	110.39
5	B	900	ALA	N-CA-CB	-7.20	99.65	109.88
6	C	192	TRP	N-CA-C	-7.20	98.19	109.72
5	B	486	TYR	N-CA-C	-7.20	103.47	112.90
6	C	245	VAL	N-CA-C	7.20	117.29	110.30
4	A	144	THR	N-CA-C	-7.20	103.36	111.14
6	C	103	ALA	CA-C-N	-7.20	109.40	121.64
6	C	103	ALA	C-N-CA	-7.20	109.40	121.64
6	C	238	ILE	CB-CA-C	-7.20	98.25	111.36
7	E	85	GLU	N-CA-C	7.20	122.70	108.59
4	A	297	GLN	CB-CA-C	-7.20	98.70	110.79
4	A	322	VAL	CA-CB-CG2	-7.20	98.16	110.40
4	A	942	PHE	CA-C-N	-7.20	108.69	120.71
4	A	942	PHE	C-N-CA	-7.20	108.69	120.71
4	A	1054	LEU	CA-CB-CG	-7.20	91.10	116.30
4	A	1321	GLY	CA-C-N	-7.20	110.98	122.50
4	A	1321	GLY	C-N-CA	-7.20	110.98	122.50
4	A	60	SER	N-CA-C	7.20	126.13	110.80
7	E	12	LEU	CA-CB-CG	-7.20	91.11	116.30
4	A	206	GLU	O-C-N	7.20	130.40	122.20
11	J	53	HIS	N-CA-CB	7.20	122.65	110.49
13	L	65	VAL	CA-CB-CG2	7.20	122.63	110.40
5	B	370	PHE	N-CA-CB	-7.19	98.33	110.49
5	B	195	CYS	N-CA-CB	7.19	120.32	109.75
4	A	141	LEU	CA-C-N	-7.19	110.40	123.34
4	A	141	LEU	C-N-CA	-7.19	110.40	123.34
4	A	1255	GLU	CB-CG-CD	7.19	124.82	112.60
5	B	666	TYR	CA-CB-CG	7.19	126.84	113.90
4	A	1381	LEU	CB-CG-CD2	-7.19	89.13	110.70
5	B	1065	GLN	CA-C-O	-7.19	113.93	121.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1017	LEU	CB-CG-CD2	7.19	132.26	110.70
5	B	639	ILE	N-CA-C	7.19	120.34	109.20
5	B	1184	GLY	N-CA-C	-7.19	96.14	113.18
4	A	885	THR	CB-CA-C	-7.19	97.34	110.63
4	A	1241	ARG	NE-CZ-NH1	-7.19	114.31	121.50
5	B	47	GLN	N-CA-CB	7.19	120.49	110.07
5	B	1091	TYR	CA-CB-CG	7.19	126.83	113.90
4	A	1371	LEU	CA-C-N	7.18	134.90	121.97
4	A	1371	LEU	C-N-CA	7.18	134.90	121.97
12	K	68	PHE	CA-C-O	7.18	130.43	121.66
5	B	228	LYS	O-C-N	7.18	132.47	123.28
5	B	1119	VAL	CA-C-N	-7.18	111.46	122.09
5	B	1119	VAL	C-N-CA	-7.18	111.46	122.09
9	H	137	GLN	CA-C-N	7.18	135.26	121.54
9	H	137	GLN	C-N-CA	7.18	135.26	121.54
4	A	692	ASP	CA-C-N	-7.18	111.51	120.56
4	A	692	ASP	C-N-CA	-7.18	111.51	120.56
5	B	1018	PRO	CA-CB-CG	-7.18	90.86	104.50
4	A	1109	LYS	N-CA-C	-7.18	102.64	111.40
9	H	12	VAL	CB-CA-C	-7.18	102.68	111.08
4	A	693	VAL	N-CA-C	-7.18	103.53	110.42
5	B	177	LYS	CA-C-N	-7.18	108.68	121.81
5	B	177	LYS	C-N-CA	-7.18	108.68	121.81
9	H	52	GLN	CA-CB-CG	7.18	128.45	114.10
4	A	206	GLU	N-CA-C	7.17	120.93	111.75
4	A	1366	ARG	NE-CZ-NH2	7.17	125.66	119.20
4	A	945	GLU	CA-CB-CG	7.17	128.44	114.10
5	B	346	GLU	N-CA-C	7.17	126.08	110.80
8	F	141	GLY	N-CA-C	-7.17	96.19	113.18
4	A	794	PRO	CA-C-N	7.17	135.23	121.54
4	A	794	PRO	C-N-CA	7.17	135.23	121.54
5	B	39	ARG	CB-CA-C	-7.17	95.76	110.38
9	H	116	TYR	CA-C-O	-7.17	113.11	120.71
4	A	498	ARG	N-CA-C	-7.17	103.55	111.36
5	B	1043	ASP	N-CA-CB	7.17	120.63	110.24
10	I	14	LEU	CB-CG-CD2	-7.17	89.20	110.70
4	A	846	GLU	CA-C-N	-7.16	110.76	122.65
4	A	846	GLU	C-N-CA	-7.16	110.76	122.65
4	A	396	PRO	CA-N-CD	-7.16	101.97	112.00
4	A	1263	ILE	CA-CB-CG1	-7.16	98.23	110.40
5	B	708	GLU	CA-CB-CG	7.16	128.42	114.10
4	A	850	VAL	CB-CA-C	-7.16	99.55	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	925	LEU	CD1-CG-CD2	7.16	126.55	110.80
4	A	70	CYS	O-C-N	7.16	129.82	122.09
5	B	546	SER	N-CA-CB	7.16	122.58	110.49
5	B	283	VAL	CB-CA-C	7.15	121.39	112.02
7	E	73	PRO	CA-CB-CG	-7.15	90.91	104.50
7	E	128	PRO	N-CA-CB	-7.15	96.14	103.08
7	E	179	GLN	CA-C-O	-7.15	113.13	120.71
11	J	45	CYS	N-CA-C	-7.15	103.18	110.97
8	F	109	VAL	O-C-N	7.15	131.51	122.57
4	A	1276	VAL	N-CA-C	7.15	118.89	108.53
5	B	251	ILE	O-C-N	7.15	130.43	123.14
5	B	395	GLN	CB-CG-CD	7.15	124.75	112.60
6	C	265	MET	CB-CA-C	7.15	120.61	109.03
4	A	121	LEU	N-CA-C	-7.14	104.71	113.50
4	A	928	LEU	CA-CB-CG	-7.14	91.30	116.30
5	B	825	VAL	CA-C-O	7.14	130.75	121.32
8	F	137	TYR	CA-C-N	7.14	132.46	121.03
8	F	137	TYR	C-N-CA	7.14	132.46	121.03
4	A	914	GLU	CA-C-O	-7.14	113.32	120.82
4	A	1340	GLY	O-C-N	7.14	130.32	122.68
6	C	32	SER	CA-C-N	-7.14	108.74	121.81
6	C	32	SER	C-N-CA	-7.14	108.74	121.81
4	A	642	CYS	N-CA-C	-7.14	103.43	111.07
5	B	1143	ALA	O-C-N	-7.14	113.21	122.56
5	B	1214	PRO	CA-C-O	7.14	133.59	120.60
9	H	93	TYR	CA-C-N	-7.14	107.90	121.54
9	H	93	TYR	C-N-CA	-7.14	107.90	121.54
12	K	89	ASN	CA-C-O	7.14	130.72	120.51
4	A	83	HIS	CA-C-N	-7.14	109.12	121.97
4	A	83	HIS	C-N-CA	-7.14	109.12	121.97
4	A	806	ARG	CA-CB-CG	7.14	128.38	114.10
5	B	485	ARG	N-CA-CB	7.14	123.14	110.79
7	E	128	PRO	N-CD-CG	-7.14	92.50	103.20
11	J	46	CYS	O-C-N	-7.14	114.56	122.12
5	B	370	PHE	CA-C-N	7.13	135.17	121.54
5	B	370	PHE	C-N-CA	7.13	135.17	121.54
6	C	216	GLY	O-C-N	7.13	129.09	122.17
13	L	62	LYS	N-CA-C	7.13	122.16	113.17
2	T	24	DT	C2-N1-C1'	-7.13	108.66	119.35
4	A	840	ARG	CB-CA-C	7.13	124.02	109.55
5	B	214	ALA	CA-C-N	-7.13	111.50	122.62
5	B	214	ALA	C-N-CA	-7.13	111.50	122.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	171	GLN	CB-CG-CD	7.13	124.72	112.60
4	A	1285	MET	O-C-N	7.13	132.07	122.59
5	B	44	VAL	CB-CA-C	-7.13	103.64	110.70
5	B	996	ARG	CG-CD-NE	7.13	127.68	112.00
5	B	188	ASP	CB-CG-OD2	7.13	134.79	118.40
6	C	88	CYS	CA-C-O	-7.13	113.74	121.94
4	A	59	GLY	N-CA-C	7.12	130.06	113.18
4	A	284	ALA	CA-C-N	7.12	128.74	119.84
4	A	284	ALA	C-N-CA	7.12	128.74	119.84
6	C	264	GLN	N-CA-C	7.12	125.97	110.80
4	A	74	MET	CB-CG-SD	-7.12	91.34	112.70
4	A	890	ASP	O-C-N	7.12	131.10	122.35
4	A	1174	PHE	CA-C-N	7.12	133.11	121.58
4	A	1174	PHE	C-N-CA	7.12	133.11	121.58
7	E	69	ILE	CB-CA-C	7.12	119.74	110.84
4	A	958	VAL	CG1-CB-CG2	7.12	126.45	110.80
5	B	393	LYS	CA-C-N	7.12	131.28	120.82
5	B	393	LYS	C-N-CA	7.12	131.28	120.82
5	B	628	THR	CA-C-N	-7.12	107.73	122.03
5	B	628	THR	C-N-CA	-7.12	107.73	122.03
4	A	461	LYS	CB-CG-CD	7.11	127.66	111.30
5	B	54	PHE	N-CA-C	-7.11	95.65	110.80
5	B	386	LEU	CA-C-N	-7.11	110.04	120.28
5	B	386	LEU	C-N-CA	-7.11	110.04	120.28
8	F	90	ARG	CG-CD-NE	-7.11	96.35	112.00
5	B	641	GLU	CA-C-N	7.11	135.12	121.54
5	B	641	GLU	C-N-CA	7.11	135.12	121.54
7	E	30	ILE	CB-CA-C	-7.11	99.63	111.29
4	A	619	LYS	CA-CB-CG	-7.11	99.88	114.10
5	B	862	GLN	N-CA-C	7.11	120.54	109.52
5	B	248	SER	N-CA-C	7.11	125.94	110.80
4	A	53	LEU	N-CA-CB	7.11	121.36	110.49
5	B	177	LYS	CB-CG-CD	7.11	127.65	111.30
5	B	549	THR	CA-CB-CG2	7.11	122.58	110.50
9	H	41	ASP	O-C-N	-7.11	114.92	123.16
9	H	124	ARG	CB-CA-C	-7.11	99.00	111.22
4	A	274	ILE	N-CA-C	-7.11	103.25	111.00
5	B	293	PRO	CB-CA-C	7.11	120.95	111.71
5	B	753	ALA	CB-CA-C	-7.11	96.28	110.42
6	C	263	THR	N-CA-CB	-7.11	98.48	110.49
7	E	81	GLU	CB-CA-C	-7.11	101.14	111.23
4	A	451	HIS	N-CA-C	-7.10	95.67	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	248	SER	O-C-N	7.10	132.03	122.59
7	E	135	PHE	CB-CA-C	-7.10	99.21	110.14
4	A	336	ILE	CA-C-N	7.10	130.66	120.79
4	A	336	ILE	C-N-CA	7.10	130.66	120.79
4	A	503	GLN	N-CA-CB	-7.10	98.44	110.51
5	B	262	GLU	N-CA-C	7.10	120.11	109.25
5	B	450	ALA	CA-C-N	7.10	135.10	121.54
5	B	450	ALA	C-N-CA	7.10	135.10	121.54
9	H	136	LYS	CA-CB-CG	7.10	128.29	114.10
4	A	393	ARG	N-CA-C	-7.10	102.74	111.40
4	A	1376	THR	CB-CA-C	7.09	123.28	110.72
5	B	465	ASN	N-CA-C	7.09	125.91	110.80
5	B	1076	HIS	CB-CA-C	-7.09	98.79	110.85
5	B	1064	TYR	CA-CB-CG	7.09	126.67	113.90
4	A	621	THR	CA-C-O	7.09	126.94	119.14
4	A	1128	GLN	CA-C-N	7.09	132.37	120.88
4	A	1128	GLN	C-N-CA	7.09	132.37	120.88
5	B	451	LYS	N-CA-CB	-7.09	98.51	110.49
7	E	200	ARG	CA-CB-CG	7.09	128.28	114.10
4	A	1003	LYS	CD-CE-NZ	7.09	134.58	111.90
4	A	1377	THR	CA-C-N	-7.09	109.48	122.31
4	A	1377	THR	C-N-CA	-7.09	109.48	122.31
5	B	38	PHE	CA-C-N	-7.09	108.63	120.68
5	B	38	PHE	C-N-CA	-7.09	108.63	120.68
7	E	90	VAL	CB-CA-C	7.09	122.92	111.29
4	A	713	SER	CA-CB-OG	-7.09	96.92	111.10
5	B	620	ARG	CD-NE-CZ	7.09	134.32	124.40
5	B	797	TYR	N-CA-CB	7.09	120.65	110.16
11	J	38	ARG	N-CA-C	7.09	120.82	111.75
4	A	957	PRO	CA-C-O	-7.08	113.01	122.08
9	H	120	GLY	N-CA-C	7.08	129.97	113.18
4	A	16	GLU	CB-CA-C	-7.08	95.66	109.68
4	A	571	LEU	CB-CG-CD1	-7.08	89.45	110.70
4	A	627	GLY	O-C-N	7.08	131.91	122.70
4	A	927	VAL	N-CA-CB	7.08	118.34	110.62
5	B	416	LEU	N-CA-C	-7.08	104.79	113.50
4	A	521	MET	N-CA-CB	-7.08	98.31	111.13
4	A	1059	HIS	N-CA-CB	7.08	122.72	110.05
7	E	106	GLN	CA-C-N	-7.08	110.19	122.37
7	E	106	GLN	C-N-CA	-7.08	110.19	122.37
7	E	180	ARG	CD-NE-CZ	7.08	134.31	124.40
6	C	104	PHE	N-CA-C	-7.08	96.72	108.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	40	THR	CB-CA-C	7.08	122.01	110.83
4	A	283	GLY	CA-C-O	-7.08	108.26	120.57
5	B	568	ASP	CA-CB-CG	7.08	119.67	112.60
5	B	873	THR	N-CA-C	-7.08	96.72	108.32
5	B	979	LYS	N-CA-C	7.08	120.99	110.52
5	B	1030	LEU	CA-CB-CG	-7.07	91.54	116.30
5	B	1079	LYS	N-CA-C	7.07	120.64	110.24
5	B	689	LEU	CA-CB-CG	-7.07	91.55	116.30
11	J	9	SER	CA-CB-OG	-7.07	96.96	111.10
4	A	559	VAL	N-CA-C	7.07	116.50	106.53
6	C	35	ARG	O-C-N	7.07	129.66	122.03
12	K	50	LEU	CB-CG-CD1	-7.07	89.49	110.70
6	C	78	GLU	CB-CA-C	7.07	123.54	110.11
11	J	10	CYS	CA-CB-SG	7.07	130.66	114.40
4	A	139	TRP	CA-CB-CG	7.07	127.03	113.60
4	A	1129	GLU	CA-CB-CG	7.07	128.24	114.10
5	B	106	ASP	N-CA-C	-7.07	102.64	110.91
7	E	139	ALA	CA-C-N	7.07	133.50	122.26
7	E	139	ALA	C-N-CA	7.07	133.50	122.26
7	E	199	ILE	CG1-CB-CG2	7.07	131.90	110.70
9	H	56	THR	N-CA-CB	-7.07	100.19	111.43
4	A	123	ARG	NE-CZ-NH1	7.07	128.56	121.50
4	A	359	LEU	CA-C-N	-7.07	110.63	122.64
4	A	359	LEU	C-N-CA	-7.07	110.63	122.64
5	B	118	ARG	N-CA-C	-7.07	102.71	111.75
5	B	576	ASP	N-CA-CB	-7.07	98.55	110.49
4	A	674	PRO	N-CA-C	-7.06	97.92	112.47
5	B	531	GLN	CA-CB-CG	7.06	128.23	114.10
4	A	137	ALA	N-CA-C	-7.06	102.00	111.96
4	A	1017	LEU	N-CA-CB	7.06	120.25	110.01
5	B	398	ARG	CD-NE-CZ	7.06	134.29	124.40
5	B	681	TRP	CA-C-N	-7.06	109.58	120.31
5	B	681	TRP	C-N-CA	-7.06	109.58	120.31
9	H	41	ASP	CA-C-N	-7.06	109.26	121.97
9	H	41	ASP	C-N-CA	-7.06	109.26	121.97
13	L	42	ARG	CA-CB-CG	7.06	128.22	114.10
4	A	239	LEU	O-C-N	7.06	129.78	121.10
5	B	941	LEU	CA-CB-CG	-7.06	91.59	116.30
2	T	18	DA	C2'-C3'-O3'	7.06	122.09	111.50
4	A	170	THR	OG1-CB-CG2	-7.06	95.18	109.30
4	A	1221	LYS	CA-C-N	7.06	134.95	123.37
4	A	1221	LYS	C-N-CA	7.06	134.95	123.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1224	LEU	N-CA-C	-7.06	95.76	110.80
10	I	104	LEU	CA-CB-CG	-7.06	91.59	116.30
12	K	34	THR	N-CA-C	-7.06	101.42	110.53
12	K	53	ASP	N-CA-C	-7.06	98.45	109.25
4	A	1132	LYS	CG-CD-CE	7.05	127.52	111.30
4	A	469	ARG	CA-CB-CG	7.05	128.21	114.10
5	B	52	ASN	CB-CA-C	-7.05	96.38	110.42
6	C	80	LEU	N-CA-C	-7.05	98.59	109.52
9	H	111	LEU	CB-CG-CD1	7.05	131.86	110.70
4	A	268	ASP	N-CA-CB	-7.05	98.58	110.49
4	A	381	THR	CA-C-N	-7.05	111.03	119.84
4	A	381	THR	C-N-CA	-7.05	111.03	119.84
5	B	1079	LYS	CA-CB-CG	-7.05	100.00	114.10
6	C	150	GLY	CA-C-O	7.05	132.84	120.57
9	H	144	ILE	CG1-CB-CG2	7.05	131.85	110.70
4	A	280	GLU	N-CA-CB	-7.05	98.58	110.49
5	B	184	ALA	CA-C-N	7.05	133.50	120.95
5	B	184	ALA	C-N-CA	7.05	133.50	120.95
5	B	294	ASP	O-C-N	-7.05	113.22	122.59
5	B	662	MET	N-CA-C	-7.05	103.31	112.68
4	A	778	GLY	CA-C-N	7.05	133.79	120.97
4	A	778	GLY	C-N-CA	7.05	133.79	120.97
6	C	154	LYS	CD-CE-NZ	7.05	134.45	111.90
5	B	564	GLU	CA-C-O	7.04	129.81	120.16
5	B	109	THR	N-CA-CB	-7.04	99.49	110.55
6	C	251	LEU	CA-C-O	7.04	128.39	121.00
5	B	1152	MET	CA-C-N	-7.04	108.95	120.71
5	B	1152	MET	C-N-CA	-7.04	108.95	120.71
4	A	1017	LEU	CB-CA-C	7.04	121.93	110.88
4	A	1170	ILE	CB-CA-C	7.04	117.69	111.71
5	B	327	ARG	CB-CG-CD	7.04	127.49	111.30
5	B	421	PHE	CA-C-N	7.04	132.46	120.71
5	B	421	PHE	C-N-CA	7.04	132.46	120.71
4	A	89	PRO	CA-N-CD	-7.04	102.15	112.00
4	A	1418	LEU	N-CA-C	-7.04	96.58	108.26
7	E	199	ILE	O-C-N	7.04	129.30	122.97
4	A	360	GLU	CB-CG-CD	7.03	124.56	112.60
7	E	122	LYS	CA-C-N	7.03	133.62	122.86
7	E	122	LYS	C-N-CA	7.03	133.62	122.86
4	A	1331	SER	CB-CA-C	-7.03	99.87	111.68
4	A	1421	CYS	CA-CB-SG	7.03	130.57	114.40
5	B	183	GLU	N-CA-C	-7.03	105.89	114.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1232	ASN	CA-C-O	7.03	126.56	118.55
5	B	34	ILE	CB-CA-C	-7.03	102.97	111.97
4	A	578	LEU	CA-C-O	7.03	128.04	120.10
5	B	315	LYS	CB-CG-CD	7.03	127.46	111.30
12	K	74	ARG	O-C-N	7.03	131.49	123.27
4	A	529	CYS	O-C-N	7.02	132.15	122.46
10	I	110	PHE	CA-C-O	-7.02	113.64	121.51
4	A	676	MET	CA-C-N	-7.02	110.17	120.28
4	A	676	MET	C-N-CA	-7.02	110.17	120.28
8	F	75	PRO	N-CA-C	7.02	126.94	112.47
5	B	1006	ILE	CA-C-O	7.02	129.50	121.28
5	B	1148	LYS	N-CA-C	-7.02	102.83	111.40
12	K	16	GLU	CA-C-N	-7.02	106.64	121.81
12	K	16	GLU	C-N-CA	-7.02	106.64	121.81
4	A	1070	GLN	N-CA-C	-7.02	102.84	111.33
7	E	59	SER	CA-C-O	7.02	130.55	120.51
4	A	541	ILE	O-C-N	7.02	130.26	123.03
4	A	1433	MET	O-C-N	-7.02	114.33	122.89
5	B	892	LYS	CA-C-N	-7.02	112.75	122.93
5	B	892	LYS	C-N-CA	-7.02	112.75	122.93
9	H	17	PRO	CA-C-O	7.02	133.37	120.60
9	H	110	ASP	CA-C-N	7.01	132.66	122.77
9	H	110	ASP	C-N-CA	7.01	132.66	122.77
5	B	852	ARG	NE-CZ-NH1	-7.01	114.49	121.50
4	A	762	SER	N-CA-C	7.01	122.12	113.50
5	B	690	VAL	N-CA-CB	-7.01	99.66	111.23
5	B	1052	VAL	N-CA-C	-7.01	103.69	110.42
5	B	1115	THR	N-CA-CB	-7.01	98.64	110.49
6	C	246	ARG	CA-C-N	-7.01	107.67	121.41
6	C	246	ARG	C-N-CA	-7.01	107.67	121.41
4	A	106	VAL	N-CA-C	-7.01	99.34	109.29
5	B	882	THR	N-CA-CB	7.01	121.63	109.72
2	T	27	DA	O3'-P-O5'	7.00	114.50	104.00
4	A	317	LYS	O-C-N	7.00	131.91	122.59
4	A	368	LYS	CD-CE-NZ	7.00	134.31	111.90
4	A	1237	ILE	N-CA-C	7.00	120.53	108.90
6	C	25	VAL	O-C-N	7.00	130.70	123.00
4	A	150	THR	CB-CA-C	7.00	121.93	110.24
4	A	1282	VAL	N-CA-C	7.00	123.90	109.34
5	B	332	ASP	N-CA-C	-7.00	95.89	110.80
5	B	941	LEU	CB-CA-C	-7.00	97.68	109.65
5	B	1166	CYS	CA-CB-SG	7.00	130.50	114.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	1195	HIS	CB-CA-C	7.00	120.46	110.24
5	B	622	LYS	CG-CD-CE	7.00	127.40	111.30
8	F	139	PRO	CA-N-CD	-7.00	102.20	112.00
4	A	619	LYS	N-CA-C	7.00	119.80	111.33
4	A	538	ASP	CB-CG-OD2	7.00	134.49	118.40
5	B	315	LYS	CD-CE-NZ	7.00	134.28	111.90
6	C	200	GLU	CB-CA-C	6.99	121.92	110.24
4	A	357	PRO	CA-C-N	-6.99	108.19	121.54
4	A	357	PRO	C-N-CA	-6.99	108.19	121.54
4	A	359	LEU	CB-CA-C	6.99	123.99	109.38
5	B	255	GLN	CA-C-N	-6.99	114.22	123.17
5	B	255	GLN	C-N-CA	-6.99	114.22	123.17
6	C	35	ARG	CA-C-N	6.99	129.61	120.60
6	C	35	ARG	C-N-CA	6.99	129.61	120.60
4	A	227	VAL	CG1-CB-CG2	-6.99	95.43	110.80
11	J	34	THR	CA-CB-CG2	-6.99	98.63	110.50
4	A	446	ARG	NE-CZ-NH2	-6.98	112.91	119.20
11	J	25	LEU	CB-CA-C	-6.98	99.06	110.79
4	A	337	ARG	CA-CB-CG	-6.98	100.14	114.10
4	A	720	ARG	CB-CA-C	-6.98	97.92	110.70
5	B	1194	ILE	CB-CA-C	-6.98	99.84	111.29
8	F	91	ALA	CA-C-N	-6.98	109.84	121.92
8	F	91	ALA	C-N-CA	-6.98	109.84	121.92
9	H	143	LEU	CA-C-N	-6.98	112.92	122.91
9	H	143	LEU	C-N-CA	-6.98	112.92	122.91
4	A	1371	LEU	CA-C-O	6.98	130.49	120.51
7	E	211	TYR	CB-CA-C	-6.98	100.43	110.62
4	A	171	GLN	N-CA-C	-6.98	93.60	107.91
4	A	409	SER	N-CA-C	6.98	125.67	110.80
4	A	760	GLN	CA-C-N	-6.98	110.38	120.29
4	A	760	GLN	C-N-CA	-6.98	110.38	120.29
4	A	1128	GLN	CB-CA-C	6.98	123.54	110.63
5	B	702	LEU	CB-CG-CD2	-6.98	89.77	110.70
10	I	38	ALA	N-CA-C	6.98	125.66	110.80
4	A	902	LEU	CB-CA-C	6.97	124.30	110.42
8	F	83	PRO	O-C-N	6.97	132.05	122.64
13	L	42	ARG	CB-CG-CD	6.97	127.34	111.30
4	A	1046	LEU	CB-CG-CD1	6.97	131.61	110.70
5	B	1135	ARG	NH1-CZ-NH2	6.97	128.36	119.30
4	A	1278	ASN	O-C-N	-6.97	114.42	121.88
4	A	1307	GLU	CB-CG-CD	6.97	124.45	112.60
4	A	15	LYS	CB-CG-CD	6.97	127.33	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	941	LEU	CB-CG-CD1	-6.97	89.80	110.70
2	T	13	DA	C2'-C3'-O3'	-6.97	101.05	111.50
4	A	12	ARG	CA-C-N	-6.96	110.56	123.03
4	A	12	ARG	C-N-CA	-6.96	110.56	123.03
5	B	279	ASP	CA-CB-CG	6.96	119.56	112.60
5	B	589	VAL	CA-C-N	-6.96	108.81	121.69
5	B	589	VAL	C-N-CA	-6.96	108.81	121.69
5	B	326	ASP	CA-CB-CG	-6.96	105.64	112.60
4	A	77	CYS	N-CA-CB	6.96	119.35	110.23
4	A	263	THR	OG1-CB-CG2	-6.96	95.38	109.30
5	B	245	GLU	N-CA-C	6.96	118.95	111.36
5	B	476	ARG	CA-C-N	-6.96	108.25	121.54
5	B	476	ARG	C-N-CA	-6.96	108.25	121.54
4	A	321	PRO	CA-C-O	-6.96	103.50	120.20
5	B	422	LYS	N-CA-C	-6.96	102.91	111.40
8	F	111	LEU	O-C-N	6.96	132.01	122.41
6	C	149	LYS	O-C-N	6.96	129.23	122.07
4	A	1407	GLU	CA-C-N	-6.96	108.33	120.29
4	A	1407	GLU	C-N-CA	-6.96	108.33	120.29
4	A	357	PRO	N-CA-C	6.95	126.79	112.47
12	K	26	LYS	CG-CD-CE	6.95	127.29	111.30
4	A	1150	SER	O-C-N	6.95	131.57	123.30
5	B	1123	SER	CA-C-N	-6.95	111.58	122.49
5	B	1123	SER	C-N-CA	-6.95	111.58	122.49
4	A	347	PHE	CB-CA-C	-6.95	102.55	111.86
4	A	355	GLY	O-C-N	6.95	130.80	123.09
4	A	736	ASN	CA-C-N	-6.95	108.27	121.54
4	A	736	ASN	C-N-CA	-6.95	108.27	121.54
4	A	988	LEU	CA-C-N	-6.95	107.79	121.41
4	A	988	LEU	C-N-CA	-6.95	107.79	121.41
4	A	1281	ARG	CA-CB-CG	6.95	128.00	114.10
5	B	362	PRO	CA-N-CD	-6.95	102.27	112.00
9	H	140	ALA	N-CA-CB	6.95	122.23	110.49
4	A	442	VAL	N-CA-C	6.95	118.16	108.23
4	A	1214	GLU	CB-CG-CD	6.95	124.41	112.60
9	H	39	THR	N-CA-CB	-6.95	99.81	110.65
5	B	797	TYR	CA-CB-CG	6.94	126.40	113.90
5	B	1220	ARG	CB-CA-C	6.94	124.24	110.42
5	B	869	SER	N-CA-C	6.94	125.59	110.80
4	A	474	VAL	N-CA-C	-6.94	106.24	112.90
4	A	1107	VAL	N-CA-CB	6.94	122.68	111.23
5	B	52	ASN	CA-C-N	-6.94	111.13	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	52	ASN	C-N-CA	-6.94	111.13	122.65
6	C	99	LEU	CA-C-N	-6.94	110.84	122.29
6	C	99	LEU	C-N-CA	-6.94	110.84	122.29
7	E	152	LYS	N-CA-CB	6.94	120.84	109.88
4	A	848	ILE	CB-CA-C	-6.94	102.06	111.63
5	B	497	ARG	NE-CZ-NH1	6.94	128.44	121.50
5	B	743	ILE	N-CA-C	6.94	117.69	110.62
12	K	80	GLY	CA-C-O	-6.94	108.50	120.57
4	A	509	LEU	CA-C-N	-6.93	111.10	122.54
4	A	509	LEU	C-N-CA	-6.93	111.10	122.54
4	A	1398	MET	CB-CG-SD	-6.93	91.90	112.70
5	B	1218	THR	N-CA-C	6.93	121.87	113.41
4	A	236	LEU	CA-C-N	6.93	134.78	121.54
4	A	236	LEU	C-N-CA	6.93	134.78	121.54
12	K	57	LEU	CA-C-N	6.93	134.14	121.94
12	K	57	LEU	C-N-CA	6.93	134.14	121.94
4	A	473	SER	CB-CA-C	6.93	123.18	110.36
10	I	67	THR	CA-C-O	6.93	127.46	119.35
9	H	78	SER	CA-CB-OG	6.93	124.95	111.10
8	F	142	SER	N-CA-C	6.92	125.55	110.80
4	A	1221	LYS	CA-CB-CG	6.92	127.94	114.10
12	K	100	ALA	CA-C-O	6.92	130.41	120.51
5	B	942	ARG	NE-CZ-NH2	-6.92	112.97	119.20
7	E	186	LEU	N-CA-C	-6.92	104.65	113.23
13	L	49	LYS	CG-CD-CE	6.92	127.22	111.30
4	A	838	GLN	CA-C-N	-6.92	110.17	122.42
4	A	838	GLN	C-N-CA	-6.92	110.17	122.42
4	A	101	LYS	CG-CD-CE	6.92	127.21	111.30
4	A	331	GLY	CA-C-O	6.92	127.71	119.82
5	B	763	GLN	CA-C-N	-6.92	111.44	120.09
5	B	763	GLN	C-N-CA	-6.92	111.44	120.09
7	E	47	CYS	CA-C-N	6.92	133.27	120.95
7	E	47	CYS	C-N-CA	6.92	133.27	120.95
9	H	109	LYS	CD-CE-NZ	6.92	134.04	111.90
12	K	41	THR	N-CA-CB	6.92	122.18	110.49
4	A	172	PRO	CA-C-O	-6.92	113.02	122.15
4	A	1112	LYS	CA-CB-CG	6.92	127.93	114.10
5	B	491	THR	CB-CA-C	6.92	124.91	110.32
4	A	341	MET	CB-CA-C	6.92	121.88	109.29
4	A	104	GLU	CB-CG-CD	6.91	124.35	112.60
4	A	813	PHE	CA-C-N	-6.91	109.17	120.72
4	A	813	PHE	C-N-CA	-6.91	109.17	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	1140	ALA	N-CA-C	6.91	125.53	110.80
2	T	19	DT	C2'-C3'-O3'	-6.91	101.13	111.50
7	E	209	ALA	CA-C-N	-6.91	110.75	122.92
7	E	209	ALA	C-N-CA	-6.91	110.75	122.92
4	A	54	ASN	N-CA-C	6.91	125.52	110.80
4	A	538	ASP	CB-CG-OD1	-6.91	102.51	118.40
4	A	1325	THR	OG1-CB-CG2	6.91	123.12	109.30
4	A	826	ASP	CB-CA-C	6.91	123.41	110.63
5	B	813	LYS	CD-CE-NZ	6.91	134.01	111.90
1	R	6	G	P-O5'-C5'	-6.91	110.54	120.90
5	B	616	ILE	N-CA-C	6.90	117.83	107.75
10	I	40	SER	CB-CA-C	6.90	123.77	110.17
5	B	868	MET	CA-CB-CG	6.90	127.90	114.10
4	A	822	GLU	CG-CD-OE1	-6.90	102.54	118.40
4	A	987	VAL	CG1-CB-CG2	6.90	125.97	110.80
5	B	693	ILE	CA-C-O	-6.90	112.84	120.84
7	E	162	ARG	CB-CG-CD	6.90	127.16	111.30
9	H	94	ASP	N-CA-CB	6.90	122.15	110.49
5	B	622	LYS	CA-CB-CG	6.90	127.89	114.10
4	A	1059	HIS	CA-C-O	6.89	128.23	119.54
4	A	1104	ILE	N-CA-CB	-6.89	102.86	110.51
5	B	1129	ARG	CA-CB-CG	6.89	127.89	114.10
7	E	7	ARG	CA-C-O	-6.89	113.56	120.80
7	E	53	PRO	CB-CA-C	-6.89	100.18	111.56
8	F	107	VAL	N-CA-C	-6.89	98.41	108.89
9	H	52	GLN	CA-C-O	6.89	130.37	120.51
4	A	280	GLU	N-CA-C	6.89	125.48	110.80
4	A	962	ARG	N-CA-C	-6.89	101.02	111.56
9	H	123	MET	N-CA-C	6.89	120.13	108.90
6	C	35	ARG	CB-CG-CD	6.88	127.13	111.30
11	J	20	SER	N-CA-C	-6.88	103.86	111.36
12	K	90	ALA	N-CA-CB	-6.88	98.86	110.49
4	A	815	PHE	O-C-N	6.88	130.09	122.11
6	C	246	ARG	N-CA-C	-6.88	104.14	112.54
4	A	528	LEU	CD1-CG-CD2	-6.88	95.66	110.80
5	B	989	THR	N-CA-C	-6.88	100.02	110.14
4	A	69	THR	CA-CB-OG1	6.88	119.92	109.60
4	A	817	ALA	N-CA-C	6.88	119.80	111.82
6	C	203	GLN	N-CA-CB	-6.88	99.22	110.43
12	K	22	ASP	CA-C-O	6.88	127.20	121.08
4	A	633	VAL	N-CA-C	-6.87	102.50	111.09
4	A	1370	LEU	CD1-CG-CD2	-6.87	95.68	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	241	ARG	CA-CB-CG	6.87	127.85	114.10
6	C	256	ALA	O-C-N	6.87	131.73	122.59
4	A	143	LYS	CD-CE-NZ	6.87	133.89	111.90
4	A	348	SER	N-CA-CB	-6.87	98.50	110.87
8	F	92	ARG	NE-CZ-NH1	6.87	128.37	121.50
4	A	479	ASN	CA-CB-CG	6.87	119.47	112.60
4	A	975	HIS	CA-C-N	6.87	134.66	121.54
4	A	975	HIS	C-N-CA	6.87	134.66	121.54
4	A	1277	GLU	N-CA-C	-6.87	100.55	110.24
4	A	1393	ASN	CB-CA-C	6.87	124.09	110.42
5	B	302	CYS	CA-C-N	-6.87	111.21	122.54
5	B	302	CYS	C-N-CA	-6.87	111.21	122.54
5	B	599	THR	CB-CA-C	6.87	122.24	110.84
5	B	876	LYS	CB-CG-CD	6.87	127.10	111.30
5	B	1041	GLU	O-C-N	6.87	131.08	123.04
5	B	1076	HIS	N-CA-C	-6.87	103.87	111.36
7	E	32	GLN	CB-CA-C	6.87	123.47	109.67
4	A	1331	SER	N-CA-C	6.86	120.88	107.98
4	A	45	GLN	N-CA-CB	6.86	121.99	114.17
4	A	388	LEU	N-CA-C	6.86	125.42	110.80
7	E	160	GLU	O-C-N	6.86	129.14	122.07
10	I	17	ARG	N-CA-CB	6.86	122.09	110.49
4	A	619	LYS	CA-C-N	-6.86	108.22	121.94
4	A	619	LYS	C-N-CA	-6.86	108.22	121.94
4	A	735	VAL	CB-CA-C	-6.86	103.03	112.02
9	H	145	ARG	CA-CB-CG	6.86	127.82	114.10
10	I	11	ASN	CA-CB-CG	6.86	119.46	112.60
10	I	84	VAL	N-CA-C	-6.86	95.07	109.34
5	B	110	HIS	CA-CB-CG	-6.86	106.94	113.80
5	B	174	LEU	CA-CB-CG	6.86	140.30	116.30
5	B	520	GLY	O-C-N	-6.86	113.43	122.28
10	I	16	PRO	CA-N-CD	-6.86	102.40	112.00
4	A	239	LEU	CA-C-N	-6.86	111.27	119.84
4	A	239	LEU	C-N-CA	-6.86	111.27	119.84
5	B	134	LYS	N-CA-C	6.86	130.20	111.00
5	B	821	GLN	CA-C-N	-6.86	112.53	122.06
5	B	821	GLN	C-N-CA	-6.86	112.53	122.06
7	E	108	GLY	N-CA-C	6.86	129.43	113.18
6	C	136	ASP	O-C-N	-6.85	113.47	122.59
5	B	176	SER	N-CA-CB	6.85	119.84	110.38
5	B	785	TYR	CB-CA-C	-6.85	95.99	110.31
5	B	1115	THR	N-CA-C	6.85	125.39	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	982	SER	CA-C-N	6.85	130.72	120.17
5	B	982	SER	C-N-CA	6.85	130.72	120.17
5	B	615	MET	N-CA-CB	-6.85	99.63	110.79
8	F	106	PRO	CA-C-O	-6.85	113.31	122.08
4	A	550	LEU	CB-CA-C	-6.85	100.03	110.92
5	B	552	MET	N-CA-C	6.85	122.06	112.75
5	B	208	SER	CA-C-O	6.84	127.85	120.32
4	A	1171	GLN	N-CA-C	-6.84	100.16	111.37
9	H	112	ILE	CA-CB-CG1	-6.83	98.78	110.40
4	A	425	GLN	O-C-N	6.83	131.01	123.22
4	A	1254	ALA	CA-C-N	6.83	134.59	121.54
4	A	1254	ALA	C-N-CA	6.83	134.59	121.54
5	B	549	THR	CA-C-O	6.83	128.47	120.89
7	E	26	ARG	CA-C-O	-6.83	112.38	120.10
4	A	532	ARG	CD-NE-CZ	6.83	133.97	124.40
4	A	604	GLY	N-CA-C	6.83	124.72	112.22
4	A	844	ALA	CA-C-O	-6.83	110.57	120.13
4	A	145	LYS	N-CA-CB	6.83	120.14	109.69
4	A	1219	THR	O-C-N	6.83	131.67	122.59
5	B	1092	TYR	CE1-CZ-OH	6.83	140.38	119.90
4	A	521	MET	N-CA-C	-6.83	97.08	108.75
10	I	41	PRO	CA-C-O	-6.83	109.44	119.00
5	B	210	LYS	N-CA-CB	6.83	122.26	111.20
7	E	83	CYS	N-CA-CB	-6.83	98.41	109.60
4	A	820	GLY	CA-C-O	6.82	132.44	120.57
4	A	1022	LEU	CA-C-N	-6.82	109.08	120.68
4	A	1022	LEU	C-N-CA	-6.82	109.08	120.68
6	C	57	VAL	CA-C-N	6.82	130.56	120.87
6	C	57	VAL	C-N-CA	6.82	130.56	120.87
4	A	1366	ARG	NE-CZ-NH1	-6.82	114.68	121.50
5	B	482	VAL	N-CA-C	6.82	123.53	109.34
5	B	274	PRO	N-CD-CG	-6.82	92.97	103.20
5	B	573	GLN	CB-CG-CD	-6.82	101.01	112.60
10	I	52	ILE	O-C-N	6.82	131.09	122.57
5	B	447	ALA	CA-C-N	-6.82	109.70	121.97
5	B	447	ALA	C-N-CA	-6.82	109.70	121.97
5	B	711	GLU	CB-CG-CD	-6.82	101.01	112.60
5	B	1043	ASP	CB-CG-OD1	-6.82	102.72	118.40
6	C	152	GLU	CA-C-N	-6.82	113.31	122.72
6	C	152	GLU	C-N-CA	-6.82	113.31	122.72
4	A	88	LYS	CG-CD-CE	6.81	126.97	111.30
5	B	306	ASN	CA-C-O	6.81	127.53	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	780	VAL	CA-C-N	-6.81	109.22	121.14
5	B	780	VAL	C-N-CA	-6.81	109.22	121.14
5	B	999	MET	CB-CA-C	-6.81	97.48	109.61
4	A	326	ARG	N-CA-CB	6.81	120.08	110.07
5	B	739	THR	O-C-N	6.81	129.15	121.93
6	C	248	ILE	CA-C-O	6.81	129.29	120.78
5	B	1091	TYR	CA-C-O	-6.81	113.02	120.30
4	A	539	THR	O-C-N	6.81	132.10	123.12
6	C	21	ILE	CB-CA-C	-6.81	98.94	110.71
6	C	195	GLN	CA-C-N	-6.81	112.41	122.41
6	C	195	GLN	C-N-CA	-6.81	112.41	122.41
8	F	144	GLU	CG-CD-OE1	-6.81	102.75	118.40
4	A	837	ILE	CB-CA-C	-6.80	100.13	111.29
4	A	961	ARG	CD-NE-CZ	6.80	133.93	124.40
4	A	1337	GLU	N-CA-CB	6.80	121.49	110.40
5	B	354	ASP	CB-CG-OD1	-6.80	102.75	118.40
6	C	253	LYS	CD-CE-NZ	6.80	133.68	111.90
8	F	97	ARG	NE-CZ-NH2	-6.80	113.08	119.20
4	A	232	GLU	CA-C-O	6.80	127.75	119.38
5	B	970	THR	CB-CA-C	-6.80	95.82	110.45
5	B	1169	MET	CA-C-O	6.80	130.24	120.51
5	B	264	SER	CA-CB-OG	6.80	124.70	111.10
7	E	62	ALA	CA-C-N	6.80	138.22	122.31
7	E	62	ALA	C-N-CA	6.80	138.22	122.31
4	A	1051	ALA	CA-C-O	6.80	130.23	120.51
4	A	1342	GLU	N-CA-C	-6.80	104.95	113.18
5	B	468	GLU	N-CA-CB	6.80	121.98	110.49
5	B	1034	VAL	CB-CA-C	-6.80	100.14	111.29
6	C	225	ALA	N-CA-C	6.80	120.53	109.59
7	E	113	GLN	N-CA-CB	6.79	120.64	110.65
4	A	541	ILE	CA-CB-CG2	6.79	122.05	110.50
5	B	170	LEU	CA-C-O	6.79	127.65	121.06
13	L	27	LEU	CA-CB-CG	6.79	140.07	116.30
4	A	399	HIS	O-C-N	6.79	129.13	121.32
5	B	964	VAL	CB-CA-C	-6.79	98.74	111.30
6	C	44	LEU	CB-CA-C	-6.79	99.19	110.19
5	B	1188	LYS	CA-CB-CG	6.79	127.68	114.10
4	A	269	ILE	CB-CA-C	-6.79	103.11	111.87
4	A	809	THR	CB-CA-C	-6.79	96.80	110.17
5	B	610	ASN	CB-CA-C	-6.79	96.80	110.17
5	B	109	THR	CA-C-N	-6.79	107.07	121.32
5	B	109	THR	C-N-CA	-6.79	107.07	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	730	ARG	CB-CG-CD	6.78	126.90	111.30
5	B	1075	GLY	N-CA-C	6.78	129.26	113.18
9	H	143	LEU	N-CA-C	6.78	119.52	108.26
4	A	286	HIS	O-C-N	-6.78	113.57	122.59
4	A	236	LEU	CD1-CG-CD2	6.78	125.72	110.80
4	A	1138	ILE	CA-C-N	6.78	134.49	121.54
4	A	1138	ILE	C-N-CA	6.78	134.49	121.54
12	K	96	ASN	N-CA-C	6.78	118.32	111.07
4	A	992	ASP	N-CA-CB	6.78	122.74	111.49
5	B	37	PHE	N-CA-C	-6.78	96.37	110.80
7	E	169	ARG	NH1-CZ-NH2	6.78	128.11	119.30
12	K	114	LEU	N-CA-CB	6.77	122.02	110.50
4	A	34	LYS	CA-CB-CG	6.77	127.65	114.10
7	E	158	SER	O-C-N	6.77	131.60	122.59
4	A	679	ILE	N-CA-C	-6.77	103.88	110.72
6	C	168	ALA	CA-C-N	-6.77	108.38	121.58
6	C	168	ALA	C-N-CA	-6.77	108.38	121.58
6	C	187	LYS	N-CA-CB	-6.77	99.05	110.49
4	A	161	LEU	CA-CB-CG	6.77	139.99	116.30
5	B	32	ALA	CA-C-N	-6.77	111.19	120.46
5	B	32	ALA	C-N-CA	-6.77	111.19	120.46
5	B	277	LYS	CB-CA-C	6.77	122.19	110.68
7	E	175	LEU	CB-CG-CD1	-6.77	90.40	110.70
10	I	21	GLU	CA-C-O	-6.77	110.83	120.51
5	B	549	THR	O-C-N	6.77	129.64	122.20
4	A	714	PHE	CB-CA-C	-6.76	99.35	110.85
4	A	1060	PRO	O-C-N	6.76	130.79	123.01
4	A	1130	GLN	CB-CA-C	6.76	123.14	110.63
5	B	945	GLU	O-C-N	-6.76	115.48	123.06
4	A	590	ARG	CB-CA-C	-6.76	96.96	110.42
4	A	1365	TYR	CA-C-N	-6.76	111.11	120.38
4	A	1365	TYR	C-N-CA	-6.76	111.11	120.38
6	C	202	PRO	O-C-N	6.76	131.77	122.64
4	A	108	MET	N-CA-C	6.76	125.20	110.80
4	A	136	ALA	N-CA-C	-6.76	103.11	112.30
4	A	895	LYS	CA-CB-CG	6.76	127.62	114.10
4	A	1367	HIS	CA-C-O	6.76	128.51	121.07
5	B	880	THR	CA-CB-CG2	6.76	122.00	110.50
5	B	892	LYS	CB-CG-CD	6.76	126.85	111.30
4	A	1173	HIS	N-CA-CB	6.76	122.53	111.58
6	C	4	GLU	CB-CG-CD	6.76	124.09	112.60
4	A	384	ASN	CA-C-O	6.76	127.44	119.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	552	MET	CA-CB-CG	6.76	127.61	114.10
6	C	123	ASN	N-CA-C	-6.76	96.61	108.23
12	K	78	THR	CB-CA-C	-6.75	98.82	109.70
4	A	324	SER	CA-C-N	-6.75	109.81	121.97
4	A	324	SER	C-N-CA	-6.75	109.81	121.97
5	B	465	ASN	CB-CG-ND2	-6.75	106.27	116.40
12	K	102	LYS	N-CA-C	-6.75	103.84	111.07
4	A	1190	PRO	N-CA-CB	-6.75	97.06	103.41
5	B	740	HIS	N-CA-C	-6.75	98.27	108.46
5	B	771	SER	CA-C-N	-6.75	111.53	122.26
5	B	771	SER	C-N-CA	-6.75	111.53	122.26
5	B	1103	ILE	CA-CB-CG2	6.75	121.98	110.50
7	E	46	TYR	N-CA-C	6.75	121.52	113.28
4	A	1006	ILE	CB-CA-C	-6.75	102.13	111.65
4	A	1438	THR	N-CA-CB	-6.75	99.08	110.49
7	E	207	ARG	CG-CD-NE	6.75	126.85	112.00
4	A	1316	VAL	N-CA-CB	6.75	121.66	112.35
5	B	629	ASP	N-CA-C	-6.75	100.81	110.59
5	B	653	VAL	CB-CA-C	-6.75	100.22	111.29
5	B	733	HIS	CA-CB-CG	6.75	120.55	113.80
7	E	79	TRP	CA-C-N	-6.75	111.53	120.91
7	E	79	TRP	C-N-CA	-6.75	111.53	120.91
4	A	394	ASN	CA-CB-CG	-6.75	105.85	112.60
5	B	479	VAL	CA-CB-CG1	-6.75	98.93	110.40
11	J	44	TYR	CB-CA-C	6.75	122.93	110.11
4	A	583	PRO	CA-C-N	-6.75	113.26	122.77
4	A	583	PRO	C-N-CA	-6.75	113.26	122.77
4	A	582	ILE	CA-CB-CG2	-6.74	99.03	110.50
4	A	843	LYS	O-C-N	6.74	130.40	122.24
4	A	881	GLN	CA-CB-CG	-6.74	100.61	114.10
5	B	198	ASP	CA-C-O	-6.74	114.21	121.56
5	B	811	TYR	CA-CB-CG	-6.74	101.76	113.90
4	A	789	LYS	N-CA-C	-6.74	99.97	110.42
5	B	830	TYR	CA-C-N	-6.74	105.75	121.52
5	B	830	TYR	C-N-CA	-6.74	105.75	121.52
4	A	505	CYS	CA-C-O	6.74	127.44	119.56
4	A	1274	ARG	O-C-N	-6.74	113.63	122.59
6	C	161	LYS	CG-CD-CE	6.74	126.80	111.30
8	F	103	MET	O-C-N	6.74	131.55	122.59
4	A	1303	GLU	N-CA-C	6.74	119.10	108.79
5	B	564	GLU	CB-CG-CD	6.74	124.05	112.60
6	C	33	LEU	CA-C-N	-6.74	108.67	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	C	33	LEU	C-N-CA	-6.74	108.67	121.54
10	I	41	PRO	O-C-N	6.74	131.46	122.30
4	A	882	SER	CA-C-O	-6.74	113.41	121.56
5	B	589	VAL	CA-C-O	-6.74	114.37	121.44
5	B	703	ILE	N-CA-C	6.74	119.76	109.12
5	B	1133	MET	N-CA-C	6.74	118.62	111.28
7	E	68	SER	CB-CA-C	-6.74	97.31	110.11
4	A	938	LYS	CB-CA-C	-6.73	97.02	110.42
4	A	1107	VAL	CA-C-N	6.73	134.40	121.54
4	A	1107	VAL	C-N-CA	6.73	134.40	121.54
5	B	49	ASP	CB-CA-C	6.73	121.58	110.81
9	H	79	TRP	N-CA-C	-6.73	97.57	108.41
4	A	1000	LEU	CB-CG-CD1	-6.73	90.51	110.70
4	A	1385	THR	CA-C-O	-6.73	113.17	121.78
12	K	20	LYS	CD-CE-NZ	6.73	133.44	111.90
4	A	934	LYS	O-C-N	6.73	131.54	122.59
10	I	82	GLU	CA-CB-CG	-6.73	100.64	114.10
4	A	1345	ARG	CA-C-N	-6.73	108.69	121.54
4	A	1345	ARG	C-N-CA	-6.73	108.69	121.54
4	A	1381	LEU	CA-C-N	6.73	133.72	122.76
4	A	1381	LEU	C-N-CA	6.73	133.72	122.76
4	A	652	VAL	CB-CA-C	-6.72	103.11	111.92
4	A	1337	GLU	CB-CG-CD	6.72	124.03	112.60
5	B	223	VAL	CA-CB-CG1	6.72	121.83	110.40
8	F	78	GLN	N-CA-CB	-6.72	101.50	112.25
4	A	740	LEU	CD1-CG-CD2	6.72	125.59	110.80
4	A	1445	ILE	N-CA-C	6.72	129.81	111.00
5	B	524	PRO	CA-C-N	-6.72	110.06	122.09
5	B	524	PRO	C-N-CA	-6.72	110.06	122.09
5	B	799	PRO	CA-CB-CG	-6.72	91.73	104.50
7	E	147	HIS	N-CA-C	6.72	120.78	109.76
4	A	709	THR	CA-C-N	-6.72	108.71	121.54
4	A	709	THR	C-N-CA	-6.72	108.71	121.54
5	B	730	ARG	CG-CD-NE	6.72	126.78	112.00
4	A	375	THR	N-CA-C	6.72	119.93	109.52
4	A	605	MET	CB-CG-SD	-6.72	92.55	112.70
5	B	544	CYS	N-CA-CB	-6.72	101.15	111.56
5	B	844	SER	CA-C-O	-6.72	113.78	120.70
6	C	70	ILE	N-CA-C	-6.72	94.37	108.88
4	A	1057	VAL	CA-CB-CG2	-6.71	98.98	110.40
5	B	228	LYS	CD-CE-NZ	6.71	133.39	111.90
5	B	622	LYS	CD-CE-NZ	6.71	133.39	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	600	PRO	CA-C-N	-6.71	111.47	122.54
4	A	600	PRO	C-N-CA	-6.71	111.47	122.54
10	I	22	ASN	CA-C-N	6.71	134.36	121.54
10	I	22	ASN	C-N-CA	6.71	134.36	121.54
5	B	227	LYS	CB-CG-CD	6.71	126.73	111.30
4	A	754	SER	CB-CA-C	-6.71	97.08	110.42
9	H	78	SER	CA-C-O	6.71	130.10	120.51
4	A	786	HIS	CB-CA-C	-6.71	99.39	110.72
5	B	29	ASP	CB-CG-OD2	6.71	133.82	118.40
4	A	17	VAL	CA-CB-CG1	6.70	121.80	110.40
4	A	833	GLU	CB-CA-C	6.70	121.58	110.92
4	A	1173	HIS	O-C-N	6.70	134.64	122.44
7	E	43	LYS	O-C-N	6.70	131.51	122.59
7	E	189	GLY	N-CA-C	6.70	129.06	113.18
7	E	171	LYS	CB-CG-CD	6.70	126.71	111.30
4	A	1143	LEU	N-CA-C	-6.70	103.67	110.97
4	A	1280	GLU	CA-C-O	-6.70	110.93	120.51
7	E	90	VAL	N-CA-C	6.70	123.28	109.34
7	E	21	GLU	N-CA-CB	6.70	119.72	110.01
4	A	363	GLN	CA-CB-CG	-6.70	100.71	114.10
7	E	123	LEU	N-CA-C	6.70	121.10	112.26
13	L	66	GLN	O-C-N	-6.70	115.59	123.22
4	A	1015	VAL	N-CA-CB	-6.69	99.14	110.86
5	B	470	LYS	CD-CE-NZ	6.69	133.32	111.90
6	C	30	ALA	N-CA-CB	-6.69	99.56	110.14
6	C	56	THR	CB-CA-C	-6.69	97.10	110.42
4	A	703	THR	N-CA-C	6.69	119.85	109.07
5	B	1220	ARG	N-CA-C	-6.69	96.55	110.80
6	C	50	GLU	N-CA-C	-6.69	97.99	108.90
4	A	311	GLN	N-CA-C	6.69	120.08	109.64
5	B	737	THR	OG1-CB-CG2	-6.69	95.92	109.30
4	A	644	LYS	CG-CD-CE	6.69	126.68	111.30
5	B	402	GLY	CA-C-N	-6.69	113.24	122.87
5	B	402	GLY	C-N-CA	-6.69	113.24	122.87
6	C	62	PHE	N-CA-C	-6.69	104.07	111.36
6	C	244	VAL	CB-CA-C	-6.69	100.32	111.29
10	I	96	SER	CA-C-N	-6.69	108.77	121.54
10	I	96	SER	C-N-CA	-6.69	108.77	121.54
5	B	422	LYS	N-CA-CB	6.69	120.03	110.13
6	C	209	TYR	CE1-CZ-CE2	-6.69	106.93	120.30
4	A	47	ARG	N-CA-C	6.68	119.62	108.73
4	A	685	GLU	CA-C-N	-6.68	109.87	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	685	GLU	C-N-CA	-6.68	109.87	120.63
4	A	944	ARG	O-C-N	6.68	131.02	122.33
5	B	191	LYS	CA-C-O	-6.68	113.80	120.82
5	B	1023	VAL	CA-C-N	-6.68	111.50	120.79
5	B	1023	VAL	C-N-CA	-6.68	111.50	120.79
4	A	613	ILE	CG1-CB-CG2	6.68	130.75	110.70
5	B	229	ALA	N-CA-C	6.68	125.03	110.80
9	H	84	ALA	CA-C-O	6.68	126.17	118.55
4	A	370	ILE	CG1-CB-CG2	-6.68	90.66	110.70
4	A	871	ASP	CA-CB-CG	6.68	119.28	112.60
6	C	41	ILE	O-C-N	6.68	128.72	121.10
9	H	62	SER	CA-C-O	6.68	130.06	120.51
4	A	13	THR	CA-C-N	-6.68	111.89	122.64
4	A	13	THR	C-N-CA	-6.68	111.89	122.64
4	A	821	ARG	CB-CA-C	6.68	118.16	109.28
5	B	1215	ARG	N-CA-C	6.68	119.41	109.59
4	A	1054	LEU	CD1-CG-CD2	6.68	125.49	110.80
5	B	702	LEU	CB-CA-C	-6.68	100.89	111.17
5	B	702	LEU	CA-CB-CG	-6.67	92.94	116.30
5	B	1205	GLN	N-CA-CB	6.67	119.66	109.91
5	B	61	ASP	N-CA-C	-6.67	105.46	112.93
7	E	44	ALA	N-CA-CB	-6.67	99.22	110.49
7	E	89	GLY	O-C-N	6.67	130.36	123.29
6	C	139	GLY	CA-C-N	-6.67	112.12	122.59
6	C	139	GLY	C-N-CA	-6.67	112.12	122.59
4	A	1002	GLY	N-CA-C	6.67	128.98	113.18
4	A	1188	GLN	CA-CB-CG	6.67	127.44	114.10
5	B	165	VAL	CB-CA-C	-6.67	100.69	110.62
5	B	395	GLN	CA-CB-CG	-6.67	100.77	114.10
6	C	165	LYS	CB-CA-C	-6.67	97.15	110.42
12	K	39	ASP	CA-C-N	-6.67	111.77	120.44
12	K	39	ASP	C-N-CA	-6.67	111.77	120.44
4	A	1036	ARG	CA-CB-CG	6.67	127.43	114.10
5	B	1098	MET	CA-CB-CG	6.67	127.43	114.10
4	A	995	GLU	CA-CB-CG	6.67	127.43	114.10
7	E	149	LEU	CB-CG-CD1	-6.66	90.71	110.70
7	E	52	ARG	CA-C-N	6.66	128.17	119.84
7	E	52	ARG	C-N-CA	6.66	128.17	119.84
8	F	104	ASN	N-CA-C	-6.66	101.78	111.17
4	A	566	ILE	CB-CA-C	-6.66	105.12	111.05
4	A	781	ASP	CA-C-N	-6.66	110.23	121.75
4	A	781	ASP	C-N-CA	-6.66	110.23	121.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	880	LYS	CD-CE-NZ	6.66	133.21	111.90
4	A	1378	GLN	CA-C-O	6.66	130.76	120.37
5	B	791	THR	CA-C-N	-6.66	108.82	121.54
5	B	791	THR	C-N-CA	-6.66	108.82	121.54
6	C	127	ARG	NH1-CZ-NH2	6.66	127.96	119.30
9	H	15	VAL	O-C-N	-6.66	114.16	122.88
12	K	48	ALA	CB-CA-C	-6.66	97.89	110.67
4	A	987	VAL	CA-CB-CG1	-6.66	99.08	110.40
10	I	91	ARG	CB-CG-CD	6.66	126.61	111.30
4	A	68	GLN	CA-C-O	-6.66	110.99	120.51
4	A	199	LEU	N-CA-C	6.66	129.64	111.00
5	B	246	LYS	CA-CB-CG	6.66	127.41	114.10
4	A	47	ARG	CG-CD-NE	6.65	126.64	112.00
4	A	217	LYS	CB-CG-CD	6.65	126.60	111.30
4	A	487	MET	O-C-N	-6.65	115.81	123.33
4	A	1355	VAL	CG1-CB-CG2	-6.65	96.17	110.80
5	B	618	ASP	CA-C-N	-6.65	110.57	121.34
5	B	618	ASP	C-N-CA	-6.65	110.57	121.34
5	B	798	TYR	N-CA-C	6.65	124.51	109.81
12	K	36	GLU	N-CA-C	6.65	120.90	110.32
4	A	370	ILE	CB-CA-C	-6.65	101.33	112.16
10	I	24	ARG	CG-CD-NE	-6.65	97.37	112.00
4	A	1303	GLU	CA-CB-CG	6.64	127.39	114.10
4	A	239	LEU	N-CA-CB	-6.64	97.78	110.27
5	B	954	VAL	O-C-N	6.64	128.95	122.97
7	E	191	LYS	CB-CG-CD	6.64	126.58	111.30
9	H	14	GLU	CA-CB-CG	6.64	127.38	114.10
4	A	902	LEU	N-CA-CB	-6.64	99.27	110.49
4	A	1232	ASN	N-CA-CB	-6.64	102.17	111.00
5	B	860	MET	O-C-N	6.64	131.78	123.15
11	J	29	GLU	N-CA-CB	-6.64	100.51	111.53
4	A	601	LYS	CA-CB-CG	-6.64	100.83	114.10
4	A	393	ARG	CA-C-N	-6.64	110.86	120.82
4	A	393	ARG	C-N-CA	-6.64	110.86	120.82
4	A	917	SER	CA-CB-OG	6.63	124.37	111.10
5	B	1043	ASP	CA-C-N	-6.63	108.87	121.54
5	B	1043	ASP	C-N-CA	-6.63	108.87	121.54
4	A	564	ALA	N-CA-C	6.63	118.59	111.36
5	B	651	LEU	CA-C-N	-6.63	109.63	120.71
5	B	651	LEU	C-N-CA	-6.63	109.63	120.71
5	B	846	ILE	N-CA-CB	-6.63	100.63	110.58
5	B	293	PRO	CA-C-O	6.63	128.23	121.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	I	115	LYS	N-CA-C	-6.63	96.67	110.80
4	A	513	SER	CB-CA-C	-6.63	99.20	109.08
5	B	29	ASP	CA-C-N	-6.63	109.99	121.66
5	B	29	ASP	C-N-CA	-6.63	109.99	121.66
10	I	35	VAL	CA-CB-CG1	-6.63	99.13	110.40
4	A	1032	LEU	CD1-CG-CD2	-6.63	96.22	110.80
4	A	1391	ARG	CB-CG-CD	6.63	126.54	111.30
11	J	1	MET	CG-SD-CE	-6.63	86.31	100.90
10	I	111	THR	N-CA-C	6.63	119.79	109.52
4	A	332	LYS	N-CA-C	-6.62	96.69	110.80
4	A	1214	GLU	CB-CA-C	6.62	124.16	110.31
5	B	633	VAL	CA-C-O	-6.62	113.65	121.80
7	E	201	LYS	CB-CG-CD	6.62	126.54	111.30
4	A	486	GLU	N-CA-C	-6.62	99.68	109.81
5	B	935	ARG	CD-NE-CZ	6.62	133.67	124.40
5	B	964	VAL	CA-CB-CG2	6.62	121.65	110.40
4	A	1163	ILE	CA-C-N	6.62	128.11	119.84
4	A	1163	ILE	C-N-CA	6.62	128.11	119.84
5	B	1079	LYS	CB-CA-C	-6.62	99.91	109.84
6	C	28	ALA	N-CA-C	6.62	124.89	110.80
7	E	158	SER	CA-C-N	6.62	130.81	120.89
7	E	158	SER	C-N-CA	6.62	130.81	120.89
8	F	112	GLU	O-C-N	6.62	131.39	122.59
9	H	44	VAL	N-CA-CB	-6.62	100.31	111.23
10	I	93	LYS	CA-CB-CG	6.62	127.33	114.10
5	B	203	PHE	CA-C-O	-6.61	113.82	121.82
5	B	274	PRO	CA-C-O	-6.61	108.56	120.60
5	B	351	TYR	OH-CZ-CE2	-6.61	100.06	119.90
9	H	129	TYR	CB-CA-C	6.61	120.76	109.65
4	A	752	LYS	N-CA-CB	6.61	122.69	110.99
12	K	77	THR	O-C-N	6.61	131.79	123.19
4	A	108	MET	CA-C-N	6.61	134.16	121.54
4	A	108	MET	C-N-CA	6.61	134.16	121.54
12	K	105	PHE	CA-C-O	6.61	127.43	120.42
4	A	998	LEU	N-CA-CB	-6.61	99.32	110.49
5	B	209	GLU	CB-CA-C	6.61	119.68	110.16
4	A	306	ASN	CA-CB-CG	-6.61	105.99	112.60
4	A	398	GLU	N-CA-C	-6.61	98.95	109.59
4	A	483	ASP	CA-C-O	-6.61	112.98	121.17
4	A	724	GLU	CB-CG-CD	6.61	123.83	112.60
4	A	1308	THR	N-CA-CB	-6.61	100.38	110.42
6	C	46	ILE	CG1-CB-CG2	6.61	130.52	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	153	PRO	CA-C-N	6.61	133.59	121.70
4	A	153	PRO	C-N-CA	6.61	133.59	121.70
4	A	359	LEU	N-CA-CB	-6.61	99.35	111.37
4	A	612	ILE	O-C-N	-6.61	115.42	122.95
4	A	752	LYS	CA-C-N	-6.61	111.68	122.05
4	A	752	LYS	C-N-CA	-6.61	111.68	122.05
5	B	294	ASP	CA-CB-CG	6.60	119.20	112.60
12	K	78	THR	CA-C-N	-6.60	108.93	121.54
12	K	78	THR	C-N-CA	-6.60	108.93	121.54
5	B	102	VAL	CG1-CB-CG2	6.60	125.32	110.80
5	B	315	LYS	CG-CD-CE	6.60	126.49	111.30
5	B	1125	ASP	O-C-N	6.60	130.13	122.67
6	C	145	CYS	CA-C-N	-6.60	112.22	122.59
6	C	145	CYS	C-N-CA	-6.60	112.22	122.59
12	K	14	GLU	CB-CG-CD	6.60	123.82	112.60
4	A	923	LEU	N-CA-CB	6.60	121.65	110.49
4	A	977	LYS	CD-CE-NZ	6.60	133.02	111.90
5	B	378	LEU	N-CA-CB	-6.60	99.33	110.49
5	B	941	LEU	CD1-CG-CD2	-6.60	96.28	110.80
6	C	238	ILE	CA-C-N	-6.60	113.72	120.85
6	C	238	ILE	C-N-CA	-6.60	113.72	120.85
4	A	717	ASN	N-CA-CB	6.60	119.58	110.01
5	B	229	ALA	N-CA-CB	-6.60	99.34	110.49
5	B	391	ASP	N-CA-C	-6.60	103.19	111.90
10	I	61	ASP	N-CA-C	6.60	120.20	111.75
4	A	840	ARG	CD-NE-CZ	6.60	133.63	124.40
4	A	593	GLU	CB-CG-CD	6.59	123.81	112.60
4	A	717	ASN	CB-CA-C	-6.59	100.53	110.88
5	B	1136	ASP	N-CA-C	-6.59	102.97	111.02
7	E	133	GLU	CA-CB-CG	6.59	127.29	114.10
5	B	971	THR	CA-CB-CG2	6.59	121.71	110.50
4	A	410	GLY	N-CA-C	6.59	128.80	113.18
4	A	450	LEU	N-CA-CB	-6.59	102.77	110.35
8	F	79	ARG	CB-CG-CD	-6.59	96.14	111.30
4	A	570	PRO	N-CD-CG	-6.59	93.32	103.20
4	A	634	THR	N-CA-C	6.59	119.46	111.82
5	B	131	ASP	CA-C-N	6.59	133.83	121.97
5	B	131	ASP	C-N-CA	6.59	133.83	121.97
5	B	608	ASP	CA-C-N	-6.59	113.78	122.94
5	B	608	ASP	C-N-CA	-6.59	113.78	122.94
7	E	169	ARG	N-CA-C	-6.59	103.09	111.92
5	B	1011	ILE	N-CA-C	6.59	117.37	107.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	J	24	LEU	CB-CA-C	-6.59	96.42	110.32
5	B	973	ILE	CB-CA-C	-6.59	99.37	111.36
9	H	82	PRO	CA-C-N	6.59	134.12	121.54
9	H	82	PRO	C-N-CA	6.59	134.12	121.54
4	A	6	TYR	CB-CA-C	-6.58	98.25	109.51
5	B	1026	LEU	O-C-N	-6.58	115.24	122.09
9	H	3	ASN	N-CA-C	6.58	124.83	110.80
4	A	256	GLN	N-CA-CB	-6.58	99.78	110.71
4	A	640	GLN	CB-CG-CD	6.58	123.79	112.60
5	B	955	THR	O-C-N	6.58	131.34	122.59
10	I	91	ARG	CG-CD-NE	6.58	126.48	112.00
9	H	84	ALA	CB-CA-C	6.58	119.39	109.13
10	I	107	SER	CA-C-O	6.58	129.92	120.51
5	B	301	ILE	CA-C-N	-6.58	112.09	121.50
5	B	301	ILE	C-N-CA	-6.58	112.09	121.50
8	F	107	VAL	N-CA-CB	-6.58	96.29	111.81
4	A	427	GLN	CA-C-O	-6.58	114.03	121.39
4	A	934	LYS	CD-CE-NZ	6.58	132.94	111.90
4	A	1207	LEU	CA-C-O	6.58	128.16	120.14
5	B	614	SER	CA-C-O	6.58	128.59	121.16
5	B	531	GLN	N-CA-C	6.57	124.80	110.80
5	B	604	ARG	O-C-N	-6.57	113.68	122.49
5	B	49	ASP	CA-CB-CG	6.57	119.17	112.60
10	I	56	ALA	O-C-N	6.57	131.33	122.59
5	B	227	LYS	CG-CD-CE	6.57	126.41	111.30
6	C	216	GLY	N-CA-C	6.57	120.84	112.83
4	A	1012	ARG	N-CA-C	-6.57	104.05	111.14
5	B	870	ILE	CG1-CB-CG2	6.57	130.39	110.70
5	B	1141	HIS	CA-C-N	-6.57	110.17	122.05
5	B	1141	HIS	C-N-CA	-6.57	110.17	122.05
13	L	50	ASP	CA-CB-CG	6.57	119.17	112.60
5	B	795	ILE	N-CA-CB	6.56	124.07	111.93
4	A	1329	THR	O-C-N	6.56	131.90	123.24
6	C	44	LEU	CA-C-N	-6.56	110.58	121.80
6	C	44	LEU	C-N-CA	-6.56	110.58	121.80
7	E	131	THR	N-CA-CB	6.56	121.58	110.49
5	B	230	ALA	O-C-N	6.56	128.86	121.32
5	B	317	CYS	N-CA-C	-6.56	102.78	111.24
9	H	118	PHE	O-C-N	6.56	129.96	122.55
12	K	109	TRP	O-C-N	6.56	130.34	122.27
9	H	76	THR	CB-CA-C	6.56	123.52	109.10
5	B	95	ILE	CB-CA-C	-6.55	102.20	111.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	128	LEU	CA-CB-CG	-6.55	93.36	116.30
4	A	507	VAL	N-CA-CB	-6.55	102.03	111.21
4	A	556	TRP	CB-CG-CD2	6.55	135.97	126.80
6	C	109	SER	N-CA-CB	-6.55	99.42	110.49
5	B	1013	ASN	CA-C-O	6.55	127.33	120.25
4	A	923	LEU	CA-C-O	-6.55	111.14	120.51
4	A	1073	GLY	N-CA-C	-6.55	104.72	112.64
5	B	846	ILE	CA-C-O	6.55	127.79	120.85
7	E	195	VAL	O-C-N	-6.55	115.44	123.10
10	I	71	SER	N-CA-C	6.55	120.15	110.46
4	A	88	LYS	CA-C-N	6.55	128.03	119.84
4	A	88	LYS	C-N-CA	6.55	128.03	119.84
4	A	1071	SER	N-CA-C	6.55	120.87	113.01
5	B	192	LEU	N-CA-CB	6.55	120.06	110.57
8	F	75	PRO	CA-N-CD	-6.55	102.83	112.00
5	B	194	GLU	CB-CA-C	6.55	121.55	109.70
5	B	825	VAL	CA-C-N	-6.55	111.52	121.86
5	B	825	VAL	C-N-CA	-6.55	111.52	121.86
10	I	5	ARG	CA-C-O	6.55	129.87	120.51
4	A	516	SER	CB-CA-C	6.54	121.62	111.28
5	B	241	ARG	NE-CZ-NH1	6.54	128.04	121.50
12	K	60	ALA	O-C-N	6.54	129.83	123.29
12	K	78	THR	CA-C-O	-6.54	113.95	121.15
4	A	18	GLN	N-CA-C	6.54	120.62	107.41
4	A	1136	SER	CB-CA-C	6.54	121.73	110.94
6	C	159	ALA	CB-CA-C	-6.54	98.86	109.72
7	E	180	ARG	NH1-CZ-NH2	-6.54	110.80	119.30
8	F	76	LYS	CG-CD-CE	6.54	126.34	111.30
4	A	1114	PRO	CA-C-N	6.54	134.03	121.54
4	A	1114	PRO	C-N-CA	6.54	134.03	121.54
4	A	266	LEU	CB-CA-C	6.54	123.43	110.42
4	A	656	TRP	CA-CB-CG	-6.54	101.18	113.60
8	F	119	ARG	CD-NE-CZ	6.54	133.55	124.40
4	A	1164	PRO	CB-CA-C	-6.54	100.78	111.56
4	A	1159	ARG	CB-CA-C	6.54	123.14	110.46
10	I	29	CYS	CA-C-N	-6.54	112.01	122.66
10	I	29	CYS	C-N-CA	-6.54	112.01	122.66
5	B	1213	THR	CA-C-O	6.53	127.37	120.64
9	H	44	VAL	N-CA-C	6.53	122.93	109.34
5	B	650	GLU	CB-CA-C	-6.53	98.03	111.22
5	B	744	HIS	CA-C-O	6.53	129.11	120.16
5	B	1087	PHE	CB-CA-C	-6.53	101.08	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	952	ALA	N-CA-CB	-6.53	100.75	110.61
4	A	1295	THR	CA-C-N	6.53	134.21	121.41
4	A	1295	THR	C-N-CA	6.53	134.21	121.41
5	B	667	GLN	N-CA-CB	6.53	121.53	110.49
4	A	1327	ILE	CG1-CB-CG2	6.53	130.29	110.70
5	B	956	THR	CA-C-N	-6.53	113.46	122.93
5	B	956	THR	C-N-CA	-6.53	113.46	122.93
6	C	167	HIS	N-CA-C	-6.53	98.22	108.14
7	E	98	ILE	N-CA-CB	6.53	122.00	111.23
7	E	101	GLN	CA-C-N	6.52	134.00	121.54
7	E	101	GLN	C-N-CA	6.52	134.00	121.54
4	A	1265	ASN	CB-CA-C	-6.52	101.03	111.39
4	A	891	ALA	CB-CA-C	-6.52	100.60	110.90
5	B	174	LEU	CB-CG-CD1	-6.52	91.15	110.70
8	F	123	LYS	CA-CB-CG	6.52	127.13	114.10
10	I	16	PRO	N-CA-CB	-6.52	96.41	103.25
4	A	66	LYS	CB-CG-CD	6.52	126.29	111.30
4	A	743	VAL	CB-CA-C	-6.52	101.70	112.26
6	C	47	ASP	O-C-N	6.52	130.75	121.95
6	C	73	GLN	CB-CA-C	-6.52	97.47	109.46
6	C	160	LYS	CA-C-N	-6.52	112.10	121.42
6	C	160	LYS	C-N-CA	-6.52	112.10	121.42
8	F	91	ALA	N-CA-CB	-6.52	99.48	110.49
9	H	134	ASN	CA-C-N	-6.52	109.09	121.54
9	H	134	ASN	C-N-CA	-6.52	109.09	121.54
5	B	116	GLU	N-CA-C	6.51	124.68	110.80
7	E	66	GLU	CB-CA-C	6.51	121.96	110.37
11	J	6	ARG	CG-CD-NE	-6.51	97.67	112.00
4	A	608	ILE	CA-CB-CG2	-6.51	99.43	110.50
5	B	373	ARG	CG-CD-NE	6.51	126.33	112.00
7	E	169	ARG	NE-CZ-NH2	-6.51	113.34	119.20
4	A	235	ILE	O-C-N	6.51	130.42	123.00
5	B	639	ILE	CB-CA-C	-6.51	101.88	111.19
4	A	1028	THR	N-CA-C	6.51	124.67	110.80
5	B	93	GLY	O-C-N	6.51	130.94	123.58
5	B	352	ALA	O-C-N	-6.51	114.73	122.15
5	B	753	ALA	CA-C-N	-6.51	108.88	120.99
5	B	753	ALA	C-N-CA	-6.51	108.88	120.99
5	B	708	GLU	O-C-N	6.51	131.25	122.59
4	A	701	LEU	CB-CG-CD2	-6.51	91.18	110.70
5	B	415	GLN	CB-CG-CD	6.51	123.66	112.60
5	B	775	LYS	N-CA-CB	-6.51	101.58	110.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	E	207	ARG	CD-NE-CZ	6.51	133.51	124.40
8	F	148	VAL	CB-CA-C	6.51	122.72	110.94
5	B	319	GLU	CB-CG-CD	6.50	123.66	112.60
5	B	356	LEU	CB-CG-CD1	6.50	130.22	110.70
9	H	116	TYR	OH-CZ-CE2	-6.50	100.38	119.90
12	K	45	LEU	CA-C-N	-6.50	111.36	120.53
12	K	45	LEU	C-N-CA	-6.50	111.36	120.53
13	L	51	CYS	CB-CA-C	-6.50	100.83	111.50
4	A	55	ASP	CA-CB-CG	-6.50	106.10	112.60
4	A	222	LEU	N-CA-C	-6.50	100.90	110.52
4	A	593	GLU	O-C-N	-6.50	113.94	122.59
4	A	1286	LYS	N-CA-C	6.50	122.05	113.20
4	A	1346	ALA	N-CA-C	6.50	124.65	110.80
5	B	173	MET	CG-SD-CE	-6.50	86.59	100.90
5	B	994	TYR	CA-C-O	6.50	128.14	120.66
5	B	1043	ASP	CA-CB-CG	-6.50	106.10	112.60
5	B	1223	ASP	O-C-N	-6.50	113.94	122.59
8	F	89	GLU	CA-C-O	6.50	127.40	120.70
4	A	900	ASP	O-C-N	6.50	131.20	123.27
4	A	1242	VAL	CA-C-N	6.50	133.40	121.70
4	A	1242	VAL	C-N-CA	6.50	133.40	121.70
5	B	99	LYS	CB-CA-C	6.50	119.79	109.52
5	B	104	GLU	N-CA-C	-6.50	99.42	109.76
5	B	1003	ALA	CA-C-N	-6.50	108.90	121.58
5	B	1003	ALA	C-N-CA	-6.50	108.90	121.58
6	C	252	GLN	CA-C-O	6.50	127.48	120.20
4	A	975	HIS	O-C-N	6.50	131.08	121.72
5	B	615	MET	O-C-N	6.50	130.74	123.40
4	A	1375	MET	CB-CA-C	-6.50	100.05	110.84
5	B	48	LEU	CA-CB-CG	-6.50	93.56	116.30
5	B	195	CYS	CA-C-N	6.50	127.42	120.47
5	B	195	CYS	C-N-CA	6.50	127.42	120.47
5	B	939	THR	N-CA-C	6.50	117.84	109.65
5	B	990	ILE	N-CA-CB	-6.50	103.45	110.53
5	B	1090	THR	N-CA-C	-6.50	98.65	108.52
6	C	164	ALA	N-CA-C	6.50	124.64	110.80
8	F	112	GLU	OE1-CD-OE2	-6.50	107.31	122.90
4	A	649	ILE	N-CA-C	-6.49	102.93	111.05
5	B	785	TYR	N-CA-C	-6.49	104.62	112.54
7	E	64	PRO	CA-N-CD	-6.49	102.91	112.00
8	F	128	LYS	CB-CA-C	6.49	123.34	110.42
9	H	100	THR	CA-CB-OG1	6.49	119.34	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	900	ASP	CA-CB-CG	6.49	119.09	112.60
5	B	1175	LEU	CA-C-O	-6.49	114.01	121.15
10	I	9	ASP	CB-CG-OD2	6.49	133.33	118.40
4	A	542	GLU	CB-CG-CD	-6.49	101.57	112.60
4	A	1206	ASP	CB-CA-C	6.49	122.02	111.05
4	A	1329	THR	N-CA-CB	6.49	120.64	110.71
5	B	606	LYS	CD-CE-NZ	6.49	132.67	111.90
5	B	764	SER	N-CA-C	6.49	122.38	113.16
4	A	548	ASN	N-CA-C	6.49	118.89	111.11
6	C	97	VAL	CB-CA-C	6.49	121.93	111.29
7	E	215	MET	N-CA-CB	-6.49	99.47	110.50
4	A	1350	LYS	CA-C-O	6.49	129.78	120.51
5	B	398	ARG	N-CA-C	6.49	124.61	110.80
5	B	1047	PHE	CB-CA-C	6.49	121.26	110.88
6	C	105	GLY	CA-C-N	-6.49	113.86	121.64
6	C	105	GLY	C-N-CA	-6.49	113.86	121.64
10	I	32	CYS	CA-C-O	-6.49	115.08	119.68
8	F	92	ARG	N-CA-C	-6.48	105.52	113.50
4	A	765	VAL	N-CA-C	-6.48	103.93	111.00
4	A	866	PHE	CA-C-O	6.48	126.89	119.18
4	A	945	GLU	CA-C-O	-6.48	111.24	120.51
5	B	102	VAL	CA-C-O	-6.48	112.68	120.78
7	E	155	ARG	N-CA-C	6.48	119.64	110.50
4	A	316	GLN	CA-CB-CG	6.48	127.06	114.10
12	K	69	ALA	N-CA-CB	-6.48	100.53	110.25
1	R	10	A	N9-C1'-C2'	6.48	121.72	112.00
4	A	176	LYS	CA-C-N	6.48	132.06	122.86
4	A	176	LYS	C-N-CA	6.48	132.06	122.86
5	B	937	ALA	N-CA-C	6.48	118.01	107.32
10	I	38	ALA	CB-CA-C	-6.48	97.53	110.42
4	A	775	ILE	N-CA-CB	-6.47	103.63	110.82
4	A	894	GLU	CA-C-O	-6.47	114.09	120.89
4	A	1025	ARG	NE-CZ-NH1	-6.47	115.03	121.50
5	B	732	SER	O-C-N	6.47	132.78	122.61
7	E	56	LYS	CA-CB-CG	6.47	127.05	114.10
12	K	96	ASN	CA-CB-CG	-6.47	106.13	112.60
4	A	1109	LYS	CD-CE-NZ	6.47	132.61	111.90
7	E	53	PRO	O-C-N	-6.47	113.90	122.64
5	B	1008	PRO	N-CD-CG	-6.47	93.49	103.20
4	A	1013	ASP	CB-CA-C	6.47	123.37	110.17
4	A	1327	ILE	CA-C-O	6.47	128.87	120.78
5	B	514	LEU	CD1-CG-CD2	-6.47	96.57	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	I	6	PHE	N-CA-C	6.47	120.17	110.14
7	E	40	GLU	CB-CA-C	6.47	123.29	110.42
9	H	3	ASN	CA-CB-CG	6.47	119.07	112.60
1	R	5	A	C4'-C3'-O3'	6.47	122.70	113.00
4	A	1362	TYR	OH-CZ-CE2	6.47	139.30	119.90
5	B	999	MET	CA-CB-CG	6.47	127.03	114.10
12	K	38	GLU	CG-CD-OE2	6.47	133.27	118.40
5	B	834	ASN	N-CA-C	-6.46	97.03	110.80
5	B	871	THR	CB-CA-C	-6.46	102.58	111.95
7	E	17	ARG	NE-CZ-NH2	6.46	125.02	119.20
10	I	8	ARG	NE-CZ-NH1	6.46	127.97	121.50
4	A	781	ASP	CA-CB-CG	6.46	119.06	112.60
5	B	390	LEU	CA-C-O	6.46	127.58	119.95
7	E	53	PRO	N-CA-C	6.46	125.78	112.47
7	E	173	SER	CB-CA-C	-6.46	100.73	110.88
4	A	571	LEU	CA-C-O	-6.46	113.86	121.16
5	B	37	PHE	O-C-N	-6.46	114.00	122.59
5	B	104	GLU	CA-C-N	-6.46	109.21	121.54
5	B	104	GLU	C-N-CA	-6.46	109.21	121.54
5	B	1019	SER	CA-C-O	-6.46	110.84	119.11
6	C	165	LYS	CA-CB-CG	6.46	127.02	114.10
7	E	96	PHE	O-C-N	-6.46	114.00	122.59
5	B	187	SER	O-C-N	6.46	129.51	122.15
5	B	760	ASP	CA-C-O	-6.46	114.05	120.70
4	A	481	ASP	N-CA-C	-6.45	99.58	109.65
4	A	741	ASN	CA-C-N	-6.45	108.99	120.99
4	A	741	ASN	C-N-CA	-6.45	108.99	120.99
4	A	1298	TYR	CA-C-N	-6.45	114.62	123.46
4	A	1298	TYR	C-N-CA	-6.45	114.62	123.46
5	B	701	ILE	CA-C-O	6.45	128.85	120.78
4	A	1112	LYS	N-CA-C	6.45	121.35	112.90
5	B	752	ALA	N-CA-C	6.45	124.54	110.80
5	B	183	GLU	O-C-N	6.45	129.57	121.64
4	A	646	PHE	CA-C-O	6.45	127.40	120.24
4	A	996	ASN	CA-CB-CG	-6.45	106.15	112.60
5	B	122	LEU	CA-CB-CG	6.45	138.87	116.30
5	B	636	PRO	CA-C-O	-6.45	108.86	120.60
5	B	710	LEU	N-CA-C	6.45	121.20	112.88
4	A	351	THR	N-CA-C	-6.45	99.87	108.19
4	A	395	GLY	CA-C-O	-6.45	112.30	121.52
4	A	690	VAL	CA-C-O	-6.45	112.72	120.78
10	I	47	GLU	N-CA-CB	6.44	121.38	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	810	PRO	CA-CB-CG	-6.44	92.26	104.50
10	I	112	SER	O-C-N	6.44	131.56	122.41
4	A	242	PRO	CA-C-N	6.44	127.01	120.38
4	A	242	PRO	C-N-CA	6.44	127.01	120.38
4	A	379	VAL	CA-C-N	6.44	133.56	121.97
4	A	379	VAL	C-N-CA	6.44	133.56	121.97
5	B	404	LYS	CG-CD-CE	6.44	126.11	111.30
6	C	106	GLU	CA-C-O	6.44	124.25	119.68
7	E	177	ARG	CA-C-N	6.44	131.72	122.77
7	E	177	ARG	C-N-CA	6.44	131.72	122.77
5	B	898	LEU	CA-C-N	-6.44	110.38	121.97
5	B	898	LEU	C-N-CA	-6.44	110.38	121.97
5	B	327	ARG	CG-CD-NE	6.44	126.16	112.00
10	I	76	PRO	CB-CA-C	-6.44	100.94	111.56
4	A	412	ARG	N-CA-C	6.43	120.05	107.57
5	B	282	ILE	O-C-N	6.43	128.40	121.90
5	B	859	TYR	N-CA-C	6.43	119.43	109.07
13	L	48	CYS	N-CA-CB	-6.43	99.61	110.49
4	A	763	ALA	N-CA-CB	-6.43	99.62	110.49
4	A	1279	ILE	CA-C-O	-6.43	113.86	121.64
6	C	186	LEU	N-CA-C	6.43	120.39	112.54
4	A	1346	ALA	O-C-N	-6.43	114.04	122.59
5	B	117	ALA	O-C-N	6.43	131.49	122.36
5	B	666	TYR	CA-C-N	-6.43	109.26	121.54
5	B	666	TYR	C-N-CA	-6.43	109.26	121.54
4	A	413	ILE	N-CA-CB	-6.43	101.52	110.13
6	C	210	GLU	CG-CD-OE2	-6.43	103.61	118.40
4	A	400	PRO	CA-C-N	-6.43	108.81	121.41
4	A	400	PRO	C-N-CA	-6.43	108.81	121.41
4	A	769	SER	CA-C-N	-6.43	114.06	122.99
4	A	769	SER	C-N-CA	-6.43	114.06	122.99
5	B	70	ILE	CG1-CB-CG2	6.43	129.98	110.70
9	H	109	LYS	CG-CD-CE	6.42	126.08	111.30
4	A	304	MET	CG-SD-CE	-6.42	86.77	100.90
5	B	284	ILE	CB-CA-C	-6.42	100.76	111.29
7	E	172	GLU	CB-CA-C	6.42	121.40	110.74
12	K	30	ALA	O-C-N	6.42	130.59	123.33
5	B	698	GLU	CA-CB-CG	6.42	126.94	114.10
4	A	1354	ASN	CA-C-N	6.42	129.18	120.77
4	A	1354	ASN	C-N-CA	6.42	129.18	120.77
7	E	100	ILE	CA-C-O	-6.42	112.76	120.78
5	B	278	GLN	N-CA-CB	-6.41	99.65	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	731	VAL	CB-CA-C	6.41	121.81	111.29
5	B	1106	ARG	CA-C-N	-6.41	109.29	121.54
5	B	1106	ARG	C-N-CA	-6.41	109.29	121.54
4	A	69	THR	OG1-CB-CG2	-6.41	96.48	109.30
5	B	585	VAL	CA-CB-CG2	-6.41	99.50	110.40
5	B	760	ASP	CB-CA-C	-6.41	100.77	110.90
5	B	897	GLY	N-CA-C	-6.41	105.50	116.01
5	B	1172	ILE	CB-CA-C	6.41	121.80	111.29
5	B	567	GLU	N-CA-C	-6.41	100.86	111.37
5	B	1108	ARG	CG-CD-NE	-6.41	97.90	112.00
6	C	183	TRP	O-C-N	6.41	130.24	123.06
5	B	306	ASN	N-CA-CB	-6.41	101.21	110.56
4	A	1067	LEU	CA-C-N	-6.41	108.00	121.64
4	A	1067	LEU	C-N-CA	-6.41	108.00	121.64
5	B	723	VAL	N-CA-CB	6.41	121.80	111.23
9	H	102	TYR	N-CA-CB	-6.41	101.06	111.18
5	B	879	ARG	CD-NE-CZ	6.40	133.37	124.40
10	I	92	ARG	CD-NE-CZ	6.40	133.37	124.40
4	A	878	ILE	N-CA-CB	-6.40	99.95	111.92
5	B	766	ARG	NE-CZ-NH1	-6.40	115.10	121.50
4	A	262	LEU	N-CA-C	-6.40	104.17	112.23
4	A	923	LEU	CA-C-N	-6.40	112.03	122.65
4	A	923	LEU	C-N-CA	-6.40	112.03	122.65
4	A	933	TYR	CB-CA-C	-6.40	96.19	110.21
4	A	998	LEU	CA-C-O	6.40	129.66	120.51
5	B	642	ASP	O-C-N	6.40	131.10	122.59
4	A	736	ASN	CB-CA-C	-6.40	97.69	110.42
4	A	902	LEU	N-CA-C	-6.40	97.17	110.80
5	B	964	VAL	O-C-N	-6.40	115.67	123.09
5	B	612	GLU	CA-CB-CG	-6.40	101.31	114.10
5	B	807	ARG	CG-CD-NE	6.40	126.08	112.00
6	C	10	ILE	CA-CB-CG1	-6.40	99.53	110.40
5	B	1223	ASP	N-CA-C	6.40	124.42	110.80
6	C	81	GLU	CB-CG-CD	6.40	123.47	112.60
4	A	294	SER	N-CA-C	-6.39	105.49	113.55
4	A	995	GLU	CG-CD-OE2	-6.39	103.69	118.40
4	A	1273	LEU	N-CA-C	6.39	121.24	113.38
8	F	153	VAL	CG1-CB-CG2	6.39	124.87	110.80
6	C	259	LEU	CA-C-O	6.39	127.80	120.00
7	E	71	LYS	CA-CB-CG	6.39	126.88	114.10
4	A	884	ASP	N-CA-CB	6.39	120.05	110.53
4	A	1100	ARG	NE-CZ-NH2	-6.39	113.45	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	514	PRO	CA-CB-CG	-6.39	92.36	104.50
5	B	370	PHE	CB-CA-C	6.39	123.14	110.42
12	K	47	ARG	CG-CD-NE	6.39	126.06	112.00
12	K	103	THR	CB-CA-C	-6.39	101.12	110.96
4	A	881	GLN	N-CA-C	-6.39	100.04	109.81
6	C	62	PHE	CA-C-N	-6.39	112.72	120.70
6	C	62	PHE	C-N-CA	-6.39	112.72	120.70
4	A	459	ARG	N-CA-CB	-6.39	100.36	110.77
4	A	1241	ARG	N-CA-C	-6.39	98.57	109.24
4	A	613	ILE	N-CA-CB	-6.38	103.15	111.90
5	B	1001	PHE	N-CA-C	6.38	119.59	109.50
6	C	235	VAL	N-CA-CB	-6.38	98.88	110.95
5	B	652	LYS	CB-CG-CD	6.38	125.98	111.30
10	I	90	GLN	CB-CG-CD	-6.38	101.75	112.60
4	A	1108	ALA	CA-C-N	6.38	131.37	120.71
4	A	1108	ALA	C-N-CA	6.38	131.37	120.71
5	B	500	THR	N-CA-C	-6.38	95.70	109.81
5	B	794	ASN	CA-C-O	-6.38	113.81	120.70
6	C	221	TYR	CZ-CE2-CD2	-6.38	108.11	119.60
4	A	1315	GLU	N-CA-CB	6.38	121.51	110.98
9	H	132	LEU	CB-CA-C	6.38	123.12	110.42
4	A	118	HIS	CA-C-O	-6.38	111.39	120.51
4	A	443	LEU	CA-CB-CG	-6.38	93.98	116.30
4	A	970	THR	CA-C-O	-6.38	111.71	119.43
5	B	331	LEU	O-C-N	6.38	130.68	122.39
6	C	156	THR	CA-C-N	-6.38	107.80	121.45
6	C	156	THR	C-N-CA	-6.38	107.80	121.45
8	F	137	TYR	N-CA-C	6.38	120.22	109.76
12	K	41	THR	CA-CB-CG2	-6.38	99.66	110.50
5	B	110	HIS	CA-C-O	-6.38	114.28	121.81
5	B	251	ILE	CB-CA-C	6.38	120.50	110.81
7	E	109	ILE	CB-CA-C	-6.38	100.83	111.29
8	F	129	LYS	CA-C-N	-6.38	110.33	122.13
8	F	129	LYS	C-N-CA	-6.38	110.33	122.13
10	I	81	ARG	CA-C-N	-6.38	113.76	123.07
10	I	81	ARG	C-N-CA	-6.38	113.76	123.07
11	J	59	LYS	CA-C-O	-6.38	112.13	119.14
4	A	206	GLU	CB-CA-C	-6.38	98.09	110.46
5	B	1060	ARG	N-CA-C	6.38	124.38	110.80
4	A	264	PHE	CA-C-O	-6.37	113.06	120.20
4	A	485	ASP	CA-C-O	-6.37	114.79	121.55
5	B	96	TYR	CA-C-N	-6.37	114.13	122.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	96	TYR	C-N-CA	-6.37	114.13	122.99
6	C	136	ASP	CB-CA-C	6.37	123.10	110.42
7	E	114	ASN	CA-C-O	-6.37	111.39	120.51
13	L	56	LEU	N-CA-C	6.37	124.38	110.80
4	A	461	LYS	CG-CD-CE	6.37	125.95	111.30
7	E	91	LYS	N-CA-C	-6.37	103.96	111.03
5	B	612	GLU	CB-CA-C	-6.37	100.80	110.92
5	B	996	ARG	N-CA-C	6.37	124.37	110.80
5	B	1029	CYS	O-C-N	6.37	128.91	122.03
7	E	21	GLU	CG-CD-OE2	-6.37	103.75	118.40
13	L	41	SER	CA-C-O	-6.37	113.55	120.36
4	A	1059	HIS	CA-C-N	-6.37	112.95	119.83
4	A	1059	HIS	C-N-CA	-6.37	112.95	119.83
5	B	249	ARG	CA-C-N	6.37	131.77	122.41
5	B	249	ARG	C-N-CA	6.37	131.77	122.41
4	A	599	SER	CA-CB-OG	6.37	123.83	111.10
5	B	126	SER	N-CA-CB	-6.37	101.50	111.05
5	B	237	VAL	CB-CA-C	-6.37	100.85	111.29
7	E	168	TYR	N-CA-C	-6.37	97.24	110.80
4	A	66	LYS	CG-CD-CE	6.36	125.94	111.30
5	B	185	THR	CA-C-N	-6.36	111.25	120.29
5	B	185	THR	C-N-CA	-6.36	111.25	120.29
5	B	540	SER	CA-C-O	-6.36	114.57	121.44
4	A	1127	ASP	CA-CB-CG	6.36	118.96	112.60
4	A	1110	ASN	CB-CA-C	6.36	123.07	110.42
5	B	514	LEU	CB-CG-CD1	-6.36	91.62	110.70
7	E	5	ASN	O-C-N	6.36	128.96	122.09
4	A	1283	VAL	O-C-N	6.36	129.75	122.82
5	B	22	SER	N-CA-CB	-6.36	99.75	110.49
5	B	469	GLN	O-C-N	6.36	131.04	122.59
5	B	1177	HIS	N-CA-C	-6.36	102.65	111.81
12	K	68	PHE	N-CA-C	6.36	120.27	110.42
4	A	49	LYS	O-C-N	6.36	126.92	121.65
4	A	268	ASP	CA-C-N	6.36	128.47	120.72
4	A	268	ASP	C-N-CA	6.36	128.47	120.72
5	B	1137	CYS	N-CA-C	6.36	119.02	111.33
4	A	560	ILE	CA-C-N	-6.35	111.90	119.84
4	A	560	ILE	C-N-CA	-6.35	111.90	119.84
4	A	1134	ILE	CG1-CB-CG2	6.35	129.76	110.70
5	B	420	LEU	N-CA-CB	6.35	119.61	110.40
5	B	748	ILE	CB-CA-C	-6.35	93.19	111.42
6	C	31	ASN	CA-C-N	-6.35	109.17	120.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	C	31	ASN	C-N-CA	-6.35	109.17	120.99
6	C	244	VAL	CA-C-N	-6.35	112.76	120.70
6	C	244	VAL	C-N-CA	-6.35	112.76	120.70
9	H	29	ALA	N-CA-C	6.35	120.05	109.95
4	A	797	LYS	CB-CA-C	6.35	121.45	110.72
5	B	993	THR	OG1-CB-CG2	-6.35	96.60	109.30
4	A	654	ASN	CA-C-O	6.35	127.27	119.97
5	B	861	ASP	N-CA-CB	-6.35	99.64	111.13
6	C	25	VAL	CB-CA-C	-6.35	99.75	111.18
6	C	137	LYS	N-CA-C	-6.35	104.23	112.68
7	E	198	ILE	CA-C-N	-6.35	113.31	122.84
7	E	198	ILE	C-N-CA	-6.35	113.31	122.84
4	A	511	ILE	CA-C-N	-6.35	115.08	122.95
4	A	511	ILE	C-N-CA	-6.35	115.08	122.95
4	A	1406	VAL	CA-C-N	6.35	129.65	120.38
4	A	1406	VAL	C-N-CA	6.35	129.65	120.38
5	B	119	LEU	CB-CG-CD2	-6.35	91.66	110.70
5	B	513	GLN	CA-C-N	-6.35	111.70	120.71
5	B	513	GLN	C-N-CA	-6.35	111.70	120.71
5	B	1009	ASP	CA-CB-CG	6.35	118.95	112.60
5	B	1145	SER	O-C-N	6.35	129.65	122.22
4	A	102	VAL	CA-C-N	-6.35	113.04	122.56
4	A	102	VAL	C-N-CA	-6.35	113.04	122.56
4	A	103	CYS	CA-C-N	-6.35	109.42	121.54
4	A	103	CYS	C-N-CA	-6.35	109.42	121.54
4	A	756	ILE	CA-C-N	6.35	129.07	120.38
4	A	756	ILE	C-N-CA	6.35	129.07	120.38
4	A	1068	ALA	N-CA-C	-6.35	103.63	112.45
5	B	1148	LYS	CG-CD-CE	6.35	125.90	111.30
7	E	167	ARG	CG-CD-NE	6.35	125.96	112.00
10	I	107	SER	CA-C-N	6.35	129.88	120.87
10	I	107	SER	C-N-CA	6.35	129.88	120.87
4	A	771	GLU	CB-CG-CD	6.34	123.39	112.60
6	C	233	GLU	CB-CA-C	-6.34	97.96	109.38
6	C	265	MET	CA-C-O	-6.34	112.07	119.24
4	A	136	ALA	N-CA-CB	6.34	122.02	111.49
4	A	708	MET	N-CA-CB	6.34	121.20	111.56
5	B	865	LYS	CB-CA-C	-6.34	107.28	116.54
7	E	19	VAL	CB-CA-C	-6.34	103.58	112.14
4	A	302	THR	OG1-CB-CG2	6.34	121.98	109.30
5	B	174	LEU	O-C-N	6.34	130.95	122.96
5	B	646	LEU	CB-CG-CD2	6.34	129.72	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	835	GLN	CA-C-N	-6.34	113.00	122.07
5	B	835	GLN	C-N-CA	-6.34	113.00	122.07
4	A	1153	TYR	CB-CG-CD1	6.34	130.31	120.80
10	I	71	SER	CA-C-N	-6.34	111.34	122.62
10	I	71	SER	C-N-CA	-6.34	111.34	122.62
5	B	1207	LEU	N-CA-CB	6.34	119.38	109.94
12	K	47	ARG	CD-NE-CZ	6.34	133.27	124.40
12	K	74	ARG	CA-CB-CG	-6.33	101.43	114.10
4	A	636	GLU	O-C-N	6.33	129.58	122.11
7	E	134	THR	N-CA-CB	-6.33	100.63	110.57
4	A	931	GLU	CA-C-O	-6.33	111.46	120.51
4	A	1032	LEU	CB-CG-CD2	6.33	129.69	110.70
4	A	1046	LEU	O-C-N	-6.33	114.17	122.59
4	A	1146	VAL	CA-C-O	6.33	126.31	119.35
4	A	1198	ASP	N-CA-C	6.33	120.20	110.20
5	B	28	GLU	CB-CG-CD	6.33	123.36	112.60
5	B	860	MET	CA-C-N	6.33	133.08	121.94
5	B	860	MET	C-N-CA	6.33	133.08	121.94
8	F	117	PRO	N-CA-CB	-6.33	96.60	103.25
4	A	591	PHE	N-CA-C	6.33	124.28	110.80
4	A	689	LYS	CB-CA-C	-6.33	100.23	110.74
4	A	841	LEU	CA-C-O	6.33	127.26	120.55
13	L	50	ASP	N-CA-C	6.33	124.28	110.80
4	A	24	PRO	N-CA-CB	-6.33	96.37	103.33
4	A	948	VAL	CG1-CB-CG2	6.33	124.72	110.80
5	B	865	LYS	CB-CG-CD	6.33	125.85	111.30
5	B	1136	ASP	CB-CA-C	6.33	120.98	110.92
4	A	107	CYS	N-CA-CB	6.32	122.44	111.00
4	A	407	ARG	CA-C-O	-6.32	111.47	120.51
5	B	636	PRO	CB-CG-CD	-6.32	85.87	106.10
5	B	806	THR	N-CA-CB	-6.32	101.38	111.62
5	B	1086	PHE	CA-C-N	-6.32	113.27	122.44
5	B	1086	PHE	C-N-CA	-6.32	113.27	122.44
6	C	191	TYR	O-C-N	-6.32	115.22	122.68
7	E	34	GLU	N-CA-C	6.32	124.27	110.80
4	A	666	ILE	CB-CA-C	-6.32	94.40	111.34
5	B	515	HIS	N-CA-C	6.32	119.71	109.40
4	A	1382	THR	N-CA-C	6.32	120.45	107.37
4	A	1353	TYR	CE1-CZ-OH	6.32	138.85	119.90
5	B	698	GLU	CG-CD-OE1	6.32	132.93	118.40
4	A	1030	ARG	CA-C-N	-6.32	112.45	120.60
4	A	1030	ARG	C-N-CA	-6.32	112.45	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	920	LEU	CA-CB-CG	-6.31	94.20	116.30
4	A	1391	ARG	N-CA-C	-6.31	105.33	113.16
5	B	90	ILE	O-C-N	-6.31	112.90	123.00
6	C	11	ARG	N-CA-C	-6.31	101.94	111.34
6	C	90	ASP	CB-CG-OD2	-6.31	103.88	118.40
8	F	153	VAL	N-CA-CB	-6.31	104.51	112.15
5	B	473	MET	CA-CB-CG	-6.31	101.48	114.10
4	A	136	ALA	CA-C-O	6.31	127.10	119.78
4	A	981	LEU	CB-CG-CD1	6.31	129.62	110.70
5	B	611	PRO	N-CA-C	6.31	121.74	113.86
5	B	1221	SER	CA-C-O	6.31	129.53	120.51
6	C	11	ARG	CA-C-O	-6.31	112.46	119.40
4	A	439	ASN	O-C-N	6.31	129.92	121.97
6	C	196	ASP	CA-C-O	6.31	127.48	120.92
9	H	123	MET	CB-CA-C	-6.31	98.17	109.71
4	A	441	PRO	CB-CA-C	-6.30	101.16	111.56
4	A	534	LEU	CA-C-N	-6.30	111.34	120.29
4	A	534	LEU	C-N-CA	-6.30	111.34	120.29
4	A	873	MET	CG-SD-CE	-6.30	87.03	100.90
4	A	963	ILE	CB-CA-C	-6.30	100.95	111.29
5	B	369	GLY	CA-C-O	6.30	131.54	120.57
5	B	392	ARG	N-CA-CB	6.30	120.01	110.30
5	B	935	ARG	CA-C-O	6.30	127.88	120.69
7	E	206	GLY	N-CA-C	6.30	125.87	115.34
8	F	127	GLU	CB-CG-CD	6.30	123.32	112.60
9	H	38	LEU	CB-CA-C	-6.30	97.88	110.42
11	J	42	LYS	N-CA-CB	-6.30	99.84	110.49
5	B	1065	GLN	CB-CG-CD	-6.30	101.88	112.60
7	E	59	SER	O-C-N	6.30	130.97	122.59
4	A	297	GLN	CB-CG-CD	6.30	123.31	112.60
4	A	805	LEU	CB-CA-C	-6.30	98.20	110.11
4	A	1300	LYS	N-CA-CB	-6.30	99.84	110.49
4	A	1390	ASN	N-CA-CB	6.30	119.91	110.65
5	B	348	ARG	N-CA-C	6.30	122.44	114.31
5	B	911	ILE	CA-C-O	-6.30	113.30	119.92
4	A	1056	SER	CA-C-N	-6.30	110.18	120.13
4	A	1056	SER	C-N-CA	-6.30	110.18	120.13
4	A	1141	THR	CB-CA-C	-6.30	97.88	110.42
5	B	165	VAL	N-CA-CB	6.30	122.35	111.39
5	B	203	PHE	O-C-N	6.30	130.01	122.20
5	B	268	THR	CA-C-O	-6.30	114.22	121.47
7	E	89	GLY	CA-C-N	6.30	133.31	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	E	89	GLY	C-N-CA	6.30	133.31	121.97
13	L	29	TYR	N-CA-C	-6.30	97.00	108.65
4	A	169	ASN	N-CA-C	-6.30	97.38	110.80
4	A	1426	GLU	CA-CB-CG	-6.30	101.50	114.10
7	E	172	GLU	N-CA-C	-6.30	100.98	111.37
4	A	1324	PRO	CB-CA-C	-6.30	101.93	111.44
5	B	235	SER	CA-C-O	-6.30	111.91	118.65
4	A	422	GLY	N-CA-C	-6.29	104.85	115.80
4	A	743	VAL	CA-C-O	6.29	127.27	120.47
9	H	86	ASP	CA-CB-CG	6.29	118.89	112.60
5	B	988	GLY	O-C-N	-6.29	118.12	123.60
6	C	207	CYS	O-C-N	6.29	130.66	122.42
5	B	749	LEU	CB-CG-CD2	-6.29	91.83	110.70
5	B	467	GLY	CA-C-O	-6.29	109.63	120.57
5	B	1166	CYS	O-C-N	6.29	130.57	122.71
4	A	566	ILE	CA-C-O	-6.29	115.20	120.80
4	A	242	PRO	CB-CA-C	-6.29	103.25	110.92
10	I	50	THR	O-C-N	-6.29	115.82	123.30
4	A	43	GLU	CA-C-N	6.28	133.54	121.54
4	A	43	GLU	C-N-CA	6.28	133.54	121.54
4	A	570	PRO	CB-CA-C	6.28	121.93	111.56
5	B	118	ARG	CA-C-N	-6.28	109.96	121.52
5	B	118	ARG	C-N-CA	-6.28	109.96	121.52
5	B	896	ASP	N-CA-CB	6.28	120.02	109.78
8	F	140	ASP	N-CA-CB	6.28	119.94	110.14
12	K	18	LYS	CA-C-O	-6.28	114.40	121.00
4	A	1319	VAL	CB-CA-C	-6.28	99.93	111.36
4	A	789	LYS	CG-CD-CE	6.28	125.75	111.30
4	A	939	ASP	CB-CA-C	6.28	122.92	110.42
5	B	224	GLN	N-CA-C	6.28	119.79	108.48
12	K	107	THR	CA-CB-OG1	6.28	119.02	109.60
4	A	318	SER	O-C-N	-6.28	114.24	122.59
5	B	111	ALA	CA-C-O	-6.28	113.30	120.58
5	B	933	SER	CA-C-N	-6.28	112.21	122.26
5	B	933	SER	C-N-CA	-6.28	112.21	122.26
6	C	174	ALA	N-CA-C	6.28	124.17	110.80
4	A	123	ARG	CG-CD-NE	6.28	125.81	112.00
4	A	294	SER	O-C-N	6.28	131.55	122.13
4	A	1326	ARG	NE-CZ-NH2	6.28	124.85	119.20
4	A	1167	GLU	CB-CA-C	6.27	122.18	110.70
4	A	1311	VAL	CA-C-N	-6.27	113.91	123.07
4	A	1311	VAL	C-N-CA	-6.27	113.91	123.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1341	ILE	N-CA-C	6.27	117.06	110.72
6	C	50	GLU	CA-CB-CG	6.27	126.65	114.10
11	J	24	LEU	CB-CG-CD1	-6.27	91.88	110.70
5	B	118	ARG	CG-CD-NE	-6.27	98.20	112.00
13	L	26	THR	CA-CB-OG1	6.27	119.01	109.60
4	A	97	ALA	CA-C-N	-6.27	109.56	121.54
4	A	97	ALA	C-N-CA	-6.27	109.56	121.54
4	A	200	ARG	N-CA-CB	6.27	119.20	109.48
5	B	535	LEU	CA-CB-CG	-6.27	94.36	116.30
4	A	263	THR	N-CA-CB	6.27	119.07	109.98
4	A	363	GLN	CB-CG-CD	6.27	123.25	112.60
4	A	1290	LYS	N-CA-C	6.27	118.17	109.15
4	A	737	LEU	O-C-N	6.27	130.92	122.59
4	A	387	ARG	CD-NE-CZ	6.26	133.17	124.40
4	A	1402	PHE	N-CA-C	-6.26	97.46	110.80
5	B	521	LEU	O-C-N	6.26	129.77	122.25
8	F	116	ASP	CA-CB-CG	6.26	118.86	112.60
5	B	1213	THR	CA-C-N	-6.26	112.01	119.84
5	B	1213	THR	C-N-CA	-6.26	112.01	119.84
9	H	20	TYR	O-C-N	-6.26	114.26	122.59
12	K	54	ARG	N-CA-CB	6.26	120.43	110.22
4	A	1024	SER	CB-CA-C	-6.26	100.40	110.79
4	A	1336	MET	CA-CB-CG	-6.26	101.58	114.10
5	B	468	GLU	CB-CG-CD	6.26	123.24	112.60
5	B	1188	LYS	O-C-N	-6.26	115.74	122.19
9	H	131	ASN	CA-CB-CG	6.26	118.86	112.60
4	A	839	ARG	CA-C-O	6.26	126.88	119.06
4	A	306	ASN	O-C-N	6.26	130.91	122.59
4	A	978	PRO	CA-CB-CG	-6.26	92.61	104.50
4	A	1350	LYS	CA-C-N	-6.26	109.88	120.58
4	A	1350	LYS	C-N-CA	-6.26	109.88	120.58
5	B	1057	LYS	CG-CD-CE	6.26	125.69	111.30
9	H	124	ARG	CD-NE-CZ	6.26	133.16	124.40
13	L	33	GLU	CA-CB-CG	6.26	126.61	114.10
4	A	366	VAL	N-CA-CB	-6.25	102.45	111.21
4	A	1415	SER	CA-C-N	6.25	132.37	122.93
4	A	1415	SER	C-N-CA	6.25	132.37	122.93
7	E	35	VAL	N-CA-CB	-6.25	100.91	111.23
5	B	483	LEU	CD1-CG-CD2	-6.25	97.05	110.80
5	B	1161	HIS	CB-CA-C	-6.25	99.48	109.80
6	C	190	ASP	CB-CG-OD2	6.25	132.78	118.40
12	K	75	ILE	CA-C-O	6.25	126.95	120.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1113	THR	O-C-N	6.25	127.50	121.31
5	B	597	MET	N-CA-C	-6.25	104.09	111.03
4	A	482	PHE	CA-C-O	-6.25	113.83	121.89
5	B	771	SER	CA-C-O	6.25	126.96	119.59
5	B	895	ASP	O-C-N	6.25	131.46	122.28
7	E	7	ARG	CG-CD-NE	-6.25	98.25	112.00
12	K	41	THR	CB-CA-C	-6.25	97.98	110.42
12	K	61	TYR	N-CA-C	6.25	118.57	109.07
4	A	1038	THR	CA-C-O	-6.25	114.27	121.26
5	B	984	HIS	CA-C-N	-6.25	109.17	121.41
5	B	984	HIS	C-N-CA	-6.25	109.17	121.41
8	F	143	PHE	N-CA-CB	-6.25	99.93	110.49
5	B	495	LEU	CB-CG-CD1	6.24	129.43	110.70
5	B	1057	LYS	CB-CG-CD	6.24	125.66	111.30
5	B	1220	ARG	NH1-CZ-NH2	-6.24	111.19	119.30
9	H	15	VAL	N-CA-CB	-6.24	103.81	111.67
9	H	31	THR	CA-C-O	-6.24	114.83	121.88
9	H	139	ASN	N-CA-C	-6.24	97.50	110.80
5	B	1124	ARG	CA-C-N	-6.24	113.19	122.36
5	B	1124	ARG	C-N-CA	-6.24	113.19	122.36
4	A	850	VAL	CA-C-O	-6.24	112.98	120.78
4	A	891	ALA	O-C-N	6.24	128.83	122.09
5	B	1065	GLN	N-CA-C	-6.24	101.86	110.35
10	I	47	GLU	CB-CG-CD	6.24	123.21	112.60
4	A	1125	ALA	O-C-N	-6.24	114.30	122.59
4	A	1315	GLU	O-C-N	-6.24	114.64	122.19
4	A	152	VAL	N-CA-C	6.24	122.35	108.88
4	A	481	ASP	N-CA-CB	6.24	121.13	110.65
4	A	821	ARG	NE-CZ-NH2	6.24	124.81	119.20
4	A	1397	LEU	CA-C-N	-6.24	109.63	121.54
4	A	1397	LEU	C-N-CA	-6.24	109.63	121.54
5	B	252	SER	N-CA-C	6.24	121.44	108.53
5	B	858	SER	CB-CA-C	-6.24	97.56	109.66
4	A	775	ILE	CB-CA-C	-6.23	102.98	111.33
4	A	1391	ARG	CD-NE-CZ	6.23	133.12	124.40
5	B	798	TYR	CE1-CZ-OH	-6.23	101.20	119.90
4	A	486	GLU	CA-C-O	-6.23	114.33	121.68
9	H	126	GLU	CA-CB-CG	6.23	126.56	114.10
4	A	166	GLY	CA-C-N	6.23	133.43	121.54
4	A	166	GLY	C-N-CA	6.23	133.43	121.54
4	A	207	ILE	O-C-N	6.23	130.35	122.57
5	B	1011	ILE	N-CA-CB	6.23	119.74	111.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	1209	ALA	N-CA-CB	-6.23	101.44	110.47
6	C	130	GLY	CA-C-N	-6.23	106.61	121.80
6	C	130	GLY	C-N-CA	-6.23	106.61	121.80
4	A	1117	THR	N-CA-CB	-6.23	101.18	110.71
5	B	390	LEU	CA-CB-CG	6.23	138.09	116.30
7	E	122	LYS	CD-CE-NZ	6.23	131.82	111.90
4	A	878	ILE	CA-C-N	-6.22	109.68	121.63
4	A	878	ILE	C-N-CA	-6.22	109.68	121.63
4	A	1130	GLN	CA-CB-CG	6.22	126.55	114.10
5	B	857	ARG	CB-CA-C	-6.22	97.36	109.68
4	A	1111	MET	CA-C-N	-6.22	110.07	121.52
4	A	1111	MET	C-N-CA	-6.22	110.07	121.52
13	L	27	LEU	O-C-N	-6.22	115.06	123.15
5	B	1027	ILE	CB-CA-C	-6.22	104.03	111.81
12	K	51	LEU	N-CA-C	-6.22	103.36	113.19
5	B	113	TYR	C-N-CD	6.22	150.49	125.00
5	B	870	ILE	CA-CB-CG1	-6.22	99.83	110.40
4	A	69	THR	CA-C-N	6.21	128.89	120.44
4	A	69	THR	C-N-CA	6.21	128.89	120.44
4	A	1093	LYS	CA-CB-CG	6.21	126.53	114.10
5	B	464	GLY	CA-C-O	-6.21	109.76	120.57
8	F	128	LYS	CD-CE-NZ	6.21	131.79	111.90
4	A	1198	ASP	CB-CA-C	-6.21	99.03	109.53
4	A	958	VAL	CB-CA-C	-6.21	101.10	111.29
5	B	186	GLU	O-C-N	6.21	129.23	122.15
5	B	942	ARG	N-CA-C	6.21	124.03	110.80
9	H	116	TYR	O-C-N	6.21	131.10	123.21
13	L	61	THR	OG1-CB-CG2	6.21	121.72	109.30
5	B	422	LYS	CA-C-O	-6.21	113.91	120.55
10	I	86	PHE	CA-CB-CG	-6.21	107.59	113.80
4	A	878	ILE	CB-CA-C	-6.21	99.59	110.71
5	B	892	LYS	CG-CD-CE	6.21	125.58	111.30
11	J	59	LYS	CB-CG-CD	6.21	125.58	111.30
4	A	360	GLU	CA-CB-CG	6.21	126.51	114.10
4	A	710	LEU	CA-C-N	-6.21	111.18	121.92
4	A	710	LEU	C-N-CA	-6.21	111.18	121.92
4	A	867	ILE	O-C-N	-6.21	116.64	123.03
5	B	111	ALA	O-C-N	-6.21	115.14	122.96
5	B	521	LEU	CD1-CG-CD2	-6.21	97.14	110.80
4	A	133	LYS	CD-CE-NZ	6.21	131.76	111.90
5	B	435	THR	CB-CA-C	-6.21	100.30	110.85
4	A	406	ILE	N-CA-C	6.20	117.70	108.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1028	THR	CA-C-N	-6.20	111.52	120.82
4	A	1028	THR	C-N-CA	-6.20	111.52	120.82
4	A	221	SER	O-C-N	6.20	128.69	122.12
4	A	68	GLN	O-C-N	6.20	130.84	122.59
4	A	1039	LYS	CD-CE-NZ	6.20	131.74	111.90
5	B	375	ALA	CB-CA-C	-6.20	98.08	110.42
5	B	1092	TYR	OH-CZ-CE2	-6.20	101.30	119.90
11	J	3	VAL	CG1-CB-CG2	6.20	124.44	110.80
12	K	7	PHE	N-CA-C	6.20	124.01	110.80
5	B	192	LEU	CB-CA-C	-6.20	99.75	110.72
4	A	679	ILE	CG1-CB-CG2	-6.20	92.11	110.70
10	I	4	PHE	N-CA-C	-6.20	97.60	110.80
2	T	12	DC	O3'-P-O5'	6.20	113.29	104.00
5	B	92	PHE	N-CA-CB	-6.20	101.53	110.45
6	C	246	ARG	CA-C-O	6.19	127.00	119.38
5	B	973	ILE	N-CA-C	6.19	122.25	108.88
6	C	9	LYS	CG-CD-CE	6.19	125.54	111.30
4	A	509	LEU	CB-CA-C	-6.19	97.26	110.32
4	A	514	PRO	CA-C-N	-6.19	109.99	120.58
4	A	514	PRO	C-N-CA	-6.19	109.99	120.58
4	A	851	HIS	CB-CA-C	-6.19	97.58	110.40
5	B	97	VAL	CB-CA-C	-6.19	101.29	110.33
5	B	349	ILE	CB-CA-C	-6.19	104.05	111.97
5	B	307	ASP	CA-C-O	6.19	131.92	122.20
5	B	518	HIS	CB-CA-C	-6.19	97.63	109.95
4	A	212	LYS	CA-CB-CG	6.19	126.47	114.10
4	A	225	ASN	CA-C-N	-6.19	109.72	121.54
4	A	225	ASN	C-N-CA	-6.19	109.72	121.54
5	B	280	ILE	CB-CA-C	-6.19	100.10	111.36
5	B	291	ILE	CA-C-O	6.19	128.49	120.69
4	A	225	ASN	N-CA-C	6.19	118.80	110.88
4	A	416	ARG	CA-C-N	-6.19	108.81	123.16
4	A	416	ARG	C-N-CA	-6.19	108.81	123.16
5	B	175	ARG	CB-CA-C	6.19	122.73	110.42
4	A	308	ILE	N-CA-CB	-6.18	101.11	111.38
4	A	411	ASP	CB-CA-C	-6.18	99.45	109.72
4	A	525	GLN	CA-C-O	-6.18	111.67	120.51
4	A	944	ARG	CA-C-O	-6.18	112.31	119.61
5	B	291	ILE	N-CA-C	6.18	116.41	108.12
5	B	689	LEU	N-CA-C	-6.18	104.22	112.94
7	E	75	MET	CA-C-O	-6.18	114.70	121.87
4	A	47	ARG	NE-CZ-NH1	6.18	127.68	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	T	18	DA	P-O3'-C3'	6.18	129.47	120.20
5	B	757	PRO	N-CD-CG	-6.18	93.93	103.20
4	A	22	PHE	CA-C-O	6.18	127.19	120.58
4	A	99	ILE	O-C-N	-6.18	114.85	122.57
4	A	350	ARG	NE-CZ-NH2	6.18	124.76	119.20
5	B	1100	ASP	N-CA-CB	-6.18	99.81	110.32
5	B	1129	ARG	CG-CD-NE	-6.18	98.40	112.00
10	I	110	PHE	N-CA-CB	-6.18	101.61	111.62
5	B	946	ASN	N-CA-C	-6.18	98.55	108.55
5	B	1223	ASP	CA-CB-CG	6.18	118.78	112.60
6	C	147	LEU	CB-CG-CD1	-6.18	92.17	110.70
1	R	8	G	O3'-P-O5'	-6.17	94.74	104.00
5	B	740	HIS	CB-CG-CD2	6.17	139.23	131.20
5	B	886	LYS	N-CA-C	6.17	120.33	109.96
4	A	1053	PHE	CA-C-N	-6.17	109.75	121.54
4	A	1053	PHE	C-N-CA	-6.17	109.75	121.54
5	B	837	ASP	CA-C-N	-6.17	111.85	123.27
5	B	837	ASP	C-N-CA	-6.17	111.85	123.27
9	H	89	LEU	CA-C-N	-6.17	109.75	121.54
9	H	89	LEU	C-N-CA	-6.17	109.75	121.54
12	K	6	ARG	CG-CD-NE	-6.17	98.42	112.00
2	T	28	DT	N1-C1'-C2'	6.17	122.75	113.50
4	A	41	MET	CB-CG-SD	-6.17	94.19	112.70
5	B	172	ILE	CA-C-N	-6.17	112.80	121.99
5	B	172	ILE	C-N-CA	-6.17	112.80	121.99
5	B	181	LEU	CB-CG-CD2	-6.17	92.19	110.70
4	A	421	ALA	CB-CA-C	6.17	120.72	109.99
4	A	896	ARG	N-CA-C	6.17	123.94	110.80
4	A	1424	VAL	CG1-CB-CG2	-6.17	97.23	110.80
6	C	73	GLN	CA-C-O	-6.17	114.38	121.47
7	E	122	LYS	CB-CG-CD	6.17	125.49	111.30
5	B	634	TYR	N-CA-CB	-6.17	100.07	110.49
6	C	112	ASN	CA-C-N	-6.17	114.90	123.10
6	C	112	ASN	C-N-CA	-6.17	114.90	123.10
11	J	57	ILE	CB-CA-C	-6.17	100.01	111.79
12	K	36	GLU	CA-C-N	-6.17	113.76	122.46
12	K	36	GLU	C-N-CA	-6.17	113.76	122.46
6	C	33	LEU	CA-C-O	6.17	128.02	120.56
4	A	537	ARG	CB-CA-C	-6.16	98.16	110.42
4	A	608	ILE	N-CA-CB	6.16	119.44	111.67
7	E	208	TYR	CA-C-O	6.16	127.67	120.89
12	K	6	ARG	NE-CZ-NH2	-6.16	113.65	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	892	ALA	N-CA-C	-6.16	105.05	113.30
4	A	1113	THR	CA-CB-OG1	-6.16	100.36	109.60
12	K	106	GLU	CB-CG-CD	6.16	123.07	112.60
4	A	68	GLN	N-CA-CB	-6.16	100.08	110.49
6	C	51	VAL	O-C-N	6.16	129.85	123.20
10	I	66	PRO	N-CA-C	6.16	122.25	114.92
4	A	954	TRP	O-C-N	6.16	126.35	121.55
5	B	345	LYS	CB-CG-CD	6.16	125.46	111.30
6	C	96	SER	N-CA-CB	-6.16	101.98	111.46
9	H	16	ASP	CA-C-O	6.16	126.72	120.38
5	B	392	ARG	O-C-N	6.15	130.58	122.33
6	C	201	TRP	C-N-CD	6.15	150.23	125.00
11	J	10	CYS	N-CA-C	6.15	123.91	110.80
12	K	109	TRP	CB-CA-C	-6.15	98.85	110.67
1	R	6	G	OP1-P-OP2	-6.15	101.14	119.60
2	T	23	DC	O3'-P-O5'	6.15	113.23	104.00
4	A	469	ARG	NE-CZ-NH1	-6.15	115.35	121.50
6	C	8	VAL	N-CA-CB	-6.15	98.45	110.45
4	A	222	LEU	N-CA-CB	6.15	120.30	110.46
4	A	363	GLN	N-CA-C	-6.15	100.88	110.17
5	B	108	VAL	CA-C-N	-6.15	114.44	123.05
5	B	108	VAL	C-N-CA	-6.15	114.44	123.05
5	B	431	TYR	N-CA-CB	6.15	120.89	110.49
5	B	869	SER	CA-C-N	6.15	133.04	121.97
5	B	869	SER	C-N-CA	6.15	133.04	121.97
10	I	8	ARG	CB-CG-CD	6.15	125.45	111.30
10	I	111	THR	OG1-CB-CG2	-6.15	97.00	109.30
4	A	582	ILE	CB-CA-C	-6.15	105.22	110.94
4	A	1202	MET	CB-CA-C	6.15	121.00	110.79
5	B	730	ARG	CB-CA-C	6.15	123.90	111.60
4	A	351	THR	CA-C-N	6.15	133.03	121.97
4	A	351	THR	C-N-CA	6.15	133.03	121.97
4	A	733	ALA	CB-CA-C	6.15	119.70	109.56
4	A	1026	LEU	CA-C-N	-6.15	111.80	122.37
4	A	1026	LEU	C-N-CA	-6.15	111.80	122.37
4	A	1372	VAL	N-CA-CB	-6.15	101.09	111.23
5	B	430	ARG	CA-C-O	-6.15	112.16	119.35
4	A	113	LEU	CB-CA-C	-6.14	99.81	109.70
4	A	552	TRP	CB-CA-C	6.14	120.99	110.79
5	B	1123	SER	N-CA-CB	-6.14	101.09	110.12
5	B	1195	HIS	CA-CB-CG	6.14	119.94	113.80
5	B	1220	ARG	CD-NE-CZ	6.14	133.00	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1259	MET	N-CA-CB	6.14	118.98	110.07
5	B	620	ARG	CB-CG-CD	6.14	125.43	111.30
4	A	611	GLN	CA-C-N	-6.14	114.45	122.37
4	A	611	GLN	C-N-CA	-6.14	114.45	122.37
4	A	1053	PHE	O-C-N	-6.14	114.42	122.59
5	B	881	ASN	O-C-N	6.14	130.75	122.59
4	A	1029	ARG	O-C-N	6.14	129.17	122.11
5	B	730	ARG	CA-C-N	-6.14	110.92	121.97
5	B	730	ARG	C-N-CA	-6.14	110.92	121.97
5	B	1117	GLN	N-CA-CB	-6.14	102.62	109.74
7	E	125	PRO	N-CA-C	6.14	125.11	112.47
9	H	82	PRO	N-CA-C	6.14	125.11	112.47
4	A	289	ILE	CA-C-N	6.13	133.26	121.54
4	A	289	ILE	C-N-CA	6.13	133.26	121.54
4	A	1052	GLN	N-CA-C	-6.13	101.31	111.37
6	C	143	LEU	N-CA-CB	-6.13	100.35	110.53
12	K	50	LEU	CA-C-O	-6.13	111.74	120.51
4	A	5	GLN	N-CA-CB	-6.13	100.12	110.49
5	B	100	PRO	N-CA-C	6.13	121.26	111.26
10	I	82	GLU	CA-C-N	-6.13	110.80	122.08
10	I	82	GLU	C-N-CA	-6.13	110.80	122.08
4	A	58	LEU	N-CA-C	6.13	119.51	109.76
4	A	765	VAL	N-CA-CB	6.13	120.80	110.56
5	B	838	SER	CA-C-N	6.13	132.84	121.62
5	B	838	SER	C-N-CA	6.13	132.84	121.62
7	E	34	GLU	CA-C-N	-6.13	110.94	121.97
7	E	34	GLU	C-N-CA	-6.13	110.94	121.97
4	A	1044	TRP	CA-C-N	6.13	133.00	121.97
4	A	1044	TRP	C-N-CA	6.13	133.00	121.97
4	A	1080	THR	CA-CB-OG1	6.13	118.80	109.60
4	A	1345	ARG	CB-CG-CD	6.13	125.40	111.30
6	C	40	GLU	N-CA-C	6.13	123.61	113.50
4	A	674	PRO	CA-C-N	-6.13	110.76	122.53
4	A	674	PRO	C-N-CA	-6.13	110.76	122.53
5	B	260	GLY	N-CA-C	6.13	127.70	113.18
7	E	21	GLU	CG-CD-OE1	6.13	132.49	118.40
8	F	86	THR	O-C-N	6.13	129.92	123.06
4	A	801	GLU	OE1-CD-OE2	6.13	137.61	122.90
4	A	1416	ALA	CA-C-N	-6.13	108.34	121.45
4	A	1416	ALA	C-N-CA	-6.13	108.34	121.45
5	B	237	VAL	CA-C-O	-6.13	113.12	120.78
5	B	885	MET	N-CA-C	-6.13	99.21	108.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	E	22	MET	CA-CB-CG	-6.13	101.85	114.10
9	H	116	TYR	CE1-CZ-OH	6.13	138.28	119.90
5	B	633	VAL	CB-CA-C	-6.12	103.04	111.49
4	A	1394	THR	N-CA-C	6.12	123.84	110.80
4	A	1440	ALA	N-CA-CB	-6.12	101.53	110.53
5	B	327	ARG	CA-C-O	-6.12	111.75	120.51
5	B	578	THR	CB-CA-C	6.12	119.45	110.26
7	E	52	ARG	CA-C-O	6.12	128.55	120.16
9	H	36	CYS	CA-C-O	6.12	128.07	120.54
11	J	48	ARG	CG-CD-NE	-6.12	98.53	112.00
4	A	582	ILE	N-CA-C	6.12	113.89	108.63
4	A	965	GLN	CA-CB-CG	6.12	126.34	114.10
5	B	914	LYS	CG-CD-CE	6.12	125.38	111.30
7	E	7	ARG	CA-C-N	-6.12	109.85	121.54
7	E	7	ARG	C-N-CA	-6.12	109.85	121.54
7	E	23	VAL	N-CA-C	6.12	116.76	110.82
9	H	107	VAL	CA-C-N	6.12	133.23	121.54
9	H	107	VAL	C-N-CA	6.12	133.23	121.54
4	A	1293	SER	O-C-N	6.12	129.41	121.64
5	B	199	MET	CG-SD-CE	-6.12	87.44	100.90
4	A	1259	MET	N-CA-C	-6.12	104.53	111.14
5	B	1029	CYS	N-CA-C	-6.12	104.24	111.03
5	B	1039	GLY	CA-C-N	6.12	132.16	122.62
5	B	1039	GLY	C-N-CA	6.12	132.16	122.62
5	B	1176	ASN	CB-CA-C	-6.12	98.25	110.42
7	E	88	VAL	N-CA-C	6.12	122.06	109.34
9	H	6	PHE	CA-C-O	6.12	129.26	120.51
4	A	896	ARG	CA-C-O	-6.12	111.76	120.51
5	B	461	LEU	CB-CG-CD2	6.12	129.05	110.70
6	C	125	MET	N-CA-C	-6.12	105.12	112.58
8	F	153	VAL	CB-CA-C	6.12	118.72	111.32
13	L	70	ARG	CG-CD-NE	6.11	125.45	112.00
4	A	691	LEU	CB-CA-C	-6.11	98.26	110.42
9	H	80	ARG	CB-CA-C	-6.11	98.13	110.17
4	A	113	LEU	CA-CB-CG	-6.11	94.92	116.30
4	A	323	LYS	CG-CD-CE	6.11	125.36	111.30
4	A	1397	LEU	CA-CB-CG	-6.11	94.91	116.30
5	B	473	MET	CG-SD-CE	6.11	114.34	100.90
5	B	1063	GLY	O-C-N	-6.11	114.76	122.70
7	E	107	THR	OG1-CB-CG2	6.11	121.52	109.30
5	B	763	GLN	N-CA-C	6.11	118.85	110.24
6	C	209	TYR	CA-C-N	6.11	132.32	121.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	C	209	TYR	C-N-CA	6.11	132.32	121.75
4	A	341	MET	CA-CB-CG	-6.11	101.89	114.10
4	A	893	PHE	CA-C-N	-6.11	111.73	120.89
4	A	893	PHE	C-N-CA	-6.11	111.73	120.89
6	C	105	GLY	N-CA-C	6.11	119.85	111.54
6	C	254	LYS	N-CA-CB	6.11	119.78	110.44
7	E	162	ARG	CA-C-N	6.11	130.77	120.88
7	E	162	ARG	C-N-CA	6.11	130.77	120.88
6	C	201	TRP	N-CA-CB	6.10	117.48	109.55
4	A	78	PRO	CB-CG-CD	-6.10	86.57	106.10
4	A	874	ASP	N-CA-C	6.10	119.08	110.23
5	B	495	LEU	CD1-CG-CD2	-6.10	97.37	110.80
5	B	560	GLU	N-CA-C	-6.10	103.14	111.56
5	B	944	THR	CA-C-O	6.10	126.06	118.43
6	C	49	VAL	CB-CA-C	-6.10	101.74	110.83
12	K	102	LYS	CB-CG-CD	6.10	125.34	111.30
12	K	70	ARG	N-CA-C	-6.10	100.32	108.74
5	B	204	ILE	N-CA-CB	6.10	121.29	111.23
7	E	59	SER	N-CA-C	6.10	123.79	110.80
7	E	66	GLU	CA-C-O	6.10	126.81	119.43
4	A	65	LEU	CB-CA-C	6.10	121.64	110.36
4	A	728	LYS	CB-CA-C	6.10	121.72	110.56
4	A	1000	LEU	O-C-N	6.10	131.16	123.23
5	B	134	LYS	CA-CB-CG	6.10	126.30	114.10
5	B	1177	HIS	CA-CB-CG	6.10	119.90	113.80
5	B	1004	GLU	N-CA-C	-6.10	105.80	113.18
11	J	38	ARG	CG-CD-NE	-6.10	98.59	112.00
4	A	685	GLU	O-C-N	-6.09	114.80	122.17
6	C	245	VAL	O-C-N	6.09	128.22	121.94
9	H	76	THR	CA-CB-CG2	6.09	120.86	110.50
10	I	75	CYS	O-C-N	6.09	128.58	121.21
4	A	375	THR	CA-C-O	-6.09	114.31	121.44
7	E	113	GLN	CA-C-O	-6.09	112.35	119.05
4	A	129	LYS	CA-C-O	-6.09	111.80	120.51
4	A	1361	SER	O-C-N	-6.09	115.81	123.12
6	C	233	GLU	CA-C-N	-6.09	113.07	122.87
6	C	233	GLU	C-N-CA	-6.09	113.07	122.87
7	E	11	ARG	CA-C-O	-6.09	114.61	121.00
4	A	351	THR	O-C-N	6.09	130.29	122.68
5	B	1048	THR	CB-CA-C	-6.09	99.37	111.91
4	A	460	VAL	CB-CA-C	-6.08	102.70	111.34
4	A	908	LEU	CA-C-O	-6.08	115.00	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1383	SER	O-C-N	6.08	130.68	122.59
5	B	959	ASP	CA-CB-CG	6.08	118.69	112.60
4	A	532	ARG	NH1-CZ-NH2	-6.08	111.39	119.30
4	A	1025	ARG	CA-C-O	-6.08	114.63	120.90
4	A	1128	GLN	CA-CB-CG	6.08	126.27	114.10
5	B	261	ARG	NE-CZ-NH2	-6.08	113.72	119.20
8	F	99	LEU	CB-CA-C	-6.08	100.74	110.84
10	I	27	PHE	CB-CA-C	-6.08	98.35	109.54
11	J	40	GLY	CA-C-O	6.08	125.45	119.37
4	A	1443	VAL	CA-C-O	-6.08	113.80	120.43
13	L	32	ALA	O-C-N	6.08	130.13	122.23
5	B	310	MET	CG-SD-CE	-6.08	87.52	100.90
4	A	233	TRP	N-CA-CB	-6.08	101.14	110.13
4	A	556	TRP	CA-C-O	-6.08	111.82	120.51
4	A	740	LEU	CB-CA-C	-6.08	100.91	110.94
6	C	199	LYS	CB-CA-C	-6.08	99.55	110.37
7	E	130	ALA	N-CA-C	-6.08	102.34	110.55
5	B	1087	PHE	CA-C-O	-6.08	112.59	120.25
6	C	203	GLN	CA-C-O	-6.08	113.81	120.43
13	L	31	CYS	O-C-N	6.08	129.79	122.68
9	H	63	LEU	CD1-CG-CD2	6.08	124.17	110.80
4	A	255	SER	N-CA-CB	6.07	121.35	111.27
4	A	272	ALA	CA-C-N	-6.07	111.53	120.28
4	A	272	ALA	C-N-CA	-6.07	111.53	120.28
4	A	801	GLU	CG-CD-OE1	-6.07	104.43	118.40
4	A	1055	ARG	N-CA-CB	6.07	119.05	110.12
5	B	47	GLN	CA-CB-CG	6.07	126.24	114.10
6	C	128	ASN	CA-CB-CG	-6.07	106.53	112.60
5	B	960	GLY	CA-C-N	6.07	133.13	121.54
5	B	960	GLY	C-N-CA	6.07	133.13	121.54
12	K	50	LEU	CB-CA-C	-6.07	98.34	110.42
2	T	23	DC	C2-N1-C1'	-6.07	110.60	119.70
4	A	619	LYS	CD-CE-NZ	-6.07	92.49	111.90
4	A	839	ARG	CA-C-N	-6.07	110.98	121.66
4	A	839	ARG	C-N-CA	-6.07	110.98	121.66
4	A	1122	PRO	N-CA-CB	-6.07	96.88	103.25
4	A	1139	GLU	N-CA-CB	-6.07	100.24	110.49
10	I	17	ARG	CA-C-O	6.07	129.19	120.51
4	A	1261	LYS	N-CA-C	-6.07	97.88	110.80
4	A	452	LYS	CD-CE-NZ	6.06	131.30	111.90
7	E	163	GLU	O-C-N	6.06	129.15	122.11
4	A	594	GLY	N-CA-C	6.06	127.55	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1356	ILE	CB-CA-C	-6.06	101.35	111.29
5	B	810	GLU	CB-CA-C	-6.06	100.68	110.74
5	B	836	GLU	CA-C-N	6.06	131.36	122.63
5	B	836	GLU	C-N-CA	6.06	131.36	122.63
5	B	987	LYS	N-CA-C	6.06	118.50	109.59
4	A	1433	MET	CA-CB-CG	-6.06	101.98	114.10
5	B	242	SER	CB-CA-C	-6.06	99.53	109.53
5	B	770	GLN	CB-CA-C	-6.06	98.36	110.42
10	I	46	HIS	N-CA-C	6.06	120.37	111.34
4	A	285	PRO	CA-N-CD	-6.06	103.52	112.00
4	A	601	LYS	CD-CE-NZ	6.06	131.29	111.90
5	B	546	SER	CA-CB-OG	6.06	123.22	111.10
5	B	874	PHE	CA-C-O	6.06	127.60	120.69
6	C	97	VAL	N-CA-C	-6.06	96.74	109.34
9	H	138	GLU	CA-C-O	6.06	129.18	120.51
4	A	376	TYR	CA-C-N	6.06	127.41	119.84
4	A	376	TYR	C-N-CA	6.06	127.41	119.84
4	A	554	PRO	CA-C-N	-6.06	112.16	120.28
4	A	554	PRO	C-N-CA	-6.06	112.16	120.28
13	L	66	GLN	CA-C-N	-6.06	113.12	122.87
13	L	66	GLN	C-N-CA	-6.06	113.12	122.87
4	A	491	VAL	CB-CA-C	-6.06	100.34	111.36
5	B	177	LYS	CA-CB-CG	-6.06	101.99	114.10
5	B	893	LEU	CB-CA-C	-6.06	98.48	109.38
7	E	175	LEU	CB-CA-C	-6.06	99.95	109.09
4	A	257	ARG	CA-CB-CG	6.05	126.21	114.10
5	B	279	ASP	N-CA-CB	6.05	119.82	109.10
6	C	39	ALA	N-CA-CB	-6.05	101.21	111.20
6	C	98	VAL	CA-C-N	-6.05	111.94	123.32
6	C	98	VAL	C-N-CA	-6.05	111.94	123.32
7	E	170	LEU	CA-C-N	6.05	132.50	122.33
7	E	170	LEU	C-N-CA	6.05	132.50	122.33
7	E	212	ARG	N-CA-CB	6.05	120.17	110.85
12	K	69	ALA	CB-CA-C	-6.05	103.69	111.50
4	A	735	VAL	CA-CB-CG2	6.05	120.69	110.40
4	A	1026	LEU	CA-CB-CG	-6.05	95.12	116.30
10	I	116	ASN	N-CA-CB	6.05	120.72	110.49
4	A	1442	ASP	CB-CG-OD1	-6.05	104.49	118.40
5	B	403	LYS	O-C-N	6.05	130.15	122.28
5	B	1215	ARG	N-CA-CB	-6.05	100.39	109.71
11	J	58	GLU	O-C-N	6.05	130.54	122.43
7	E	212	ARG	CB-CA-C	-6.05	98.82	109.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	99	ILE	CA-C-N	-6.05	112.58	120.44
4	A	99	ILE	C-N-CA	-6.05	112.58	120.44
4	A	254	GLU	CB-CG-CD	6.05	122.88	112.60
4	A	580	VAL	N-CA-C	-6.05	103.53	111.09
5	B	638	PHE	CB-CG-CD2	-6.05	110.42	120.70
5	B	1000	PRO	N-CA-C	-6.05	102.38	111.57
4	A	1286	LYS	O-C-N	6.04	130.43	121.72
5	B	827	ILE	CA-C-N	-6.04	110.00	121.54
5	B	827	ILE	C-N-CA	-6.04	110.00	121.54
4	A	171	GLN	CA-C-N	-6.04	114.54	120.52
4	A	171	GLN	C-N-CA	-6.04	114.54	120.52
4	A	984	LYS	CG-CD-CE	6.04	125.20	111.30
4	A	1021	LEU	CD1-CG-CD2	6.04	124.10	110.80
4	A	1307	GLU	O-C-N	-6.04	115.52	123.13
5	B	123	THR	N-CA-CB	-6.04	100.42	110.39
5	B	1074	ASN	CA-C-O	-6.04	113.48	120.49
9	H	85	GLY	CA-C-O	-6.04	110.05	120.57
9	H	106	GLU	N-CA-CB	6.04	119.00	110.24
4	A	47	ARG	CA-C-N	6.04	133.08	121.54
4	A	47	ARG	C-N-CA	6.04	133.08	121.54
4	A	1114	PRO	N-CA-C	-6.04	100.02	112.47
5	B	631	GLY	O-C-N	-6.04	115.11	122.30
5	B	938	SER	N-CA-C	6.04	119.35	108.48
5	B	1022	THR	CA-C-O	6.04	131.38	122.38
10	I	59	VAL	CA-C-O	-6.04	113.23	120.78
8	F	144	GLU	N-CA-CB	-6.04	101.11	110.65
4	A	497	THR	CA-C-N	-6.04	111.72	120.29
4	A	497	THR	C-N-CA	-6.04	111.72	120.29
4	A	545	GLN	N-CA-CB	-6.04	100.28	110.49
9	H	40	LEU	O-C-N	6.04	130.37	123.31
4	A	1279	ILE	CA-C-N	-6.04	110.01	121.54
4	A	1279	ILE	C-N-CA	-6.04	110.01	121.54
5	B	400	HIS	N-CA-C	-6.04	99.40	109.24
5	B	483	LEU	CA-C-N	-6.04	112.10	123.27
5	B	483	LEU	C-N-CA	-6.04	112.10	123.27
4	A	186	LYS	CB-CG-CD	6.04	125.18	111.30
4	A	364	VAL	CB-CA-C	-6.04	101.39	111.29
4	A	367	PRO	CA-C-O	6.04	129.80	122.19
4	A	682	THR	OG1-CB-CG2	-6.04	97.23	109.30
4	A	1094	VAL	CB-CA-C	-6.04	102.63	110.84
4	A	1381	LEU	O-C-N	6.04	130.48	123.30
5	B	531	GLN	CB-CG-CD	6.04	122.86	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	700	SER	CB-CA-C	-6.04	101.75	111.28
4	A	66	LYS	CA-C-O	6.03	129.14	120.51
4	A	602	ASP	N-CA-CB	6.03	120.63	111.70
4	A	1015	VAL	CG1-CB-CG2	6.03	124.07	110.80
5	B	547	VAL	O-C-N	6.03	130.11	122.57
9	H	130	ARG	CD-NE-CZ	6.03	132.85	124.40
5	B	1067	ARG	CD-NE-CZ	6.03	132.84	124.40
4	A	982	THR	CA-CB-CG2	6.03	120.75	110.50
5	B	46	GLN	CA-C-O	-6.03	111.89	120.51
10	I	7	CYS	CA-C-N	-6.03	110.02	121.54
10	I	7	CYS	C-N-CA	-6.03	110.02	121.54
5	B	308	TRP	CA-C-N	6.03	128.68	120.54
5	B	308	TRP	C-N-CA	6.03	128.68	120.54
5	B	321	GLY	N-CA-C	6.03	127.47	113.18
5	B	861	ASP	CA-C-O	6.03	127.96	120.54
4	A	709	THR	CB-CA-C	-6.03	100.50	109.90
4	A	850	VAL	CA-CB-CG1	-6.03	100.15	110.40
5	B	485	ARG	CB-CA-C	-6.03	102.07	112.44
5	B	943	SER	CB-CA-C	-6.03	98.42	110.42
5	B	955	THR	N-CA-CB	6.03	120.67	110.49
7	E	19	VAL	CG1-CB-CG2	6.03	124.06	110.80
7	E	56	LYS	CA-C-N	6.03	133.05	121.54
7	E	56	LYS	C-N-CA	6.03	133.05	121.54
10	I	77	LYS	N-CA-C	-6.03	105.00	112.90
4	A	637	LYS	CG-CD-CE	6.03	125.16	111.30
11	J	62	ARG	O-C-N	-6.03	114.58	122.59
11	J	57	ILE	CG1-CB-CG2	6.02	128.77	110.70
4	A	109	HIS	CA-CB-CG	6.02	119.82	113.80
6	C	234	SER	CA-CB-OG	6.02	123.15	111.10
4	A	1377	THR	N-CA-CB	6.02	119.04	110.67
5	B	551	PRO	O-C-N	6.02	129.45	122.23
10	I	91	ARG	NH1-CZ-NH2	-6.02	111.47	119.30
2	T	28	DT	C2'-C3'-O3'	6.02	120.53	111.50
4	A	28	ARG	CA-CB-CG	6.02	126.14	114.10
11	J	28	ASP	CA-C-O	6.02	126.60	119.56
4	A	121	LEU	CA-C-N	6.02	130.76	120.71
4	A	121	LEU	C-N-CA	6.02	130.76	120.71
4	A	650	GLN	CG-CD-NE2	6.02	125.42	116.40
10	I	95	THR	CA-C-N	-6.02	112.53	120.95
10	I	95	THR	C-N-CA	-6.02	112.53	120.95
4	A	124	GLN	CA-C-N	-6.01	110.05	121.54
4	A	124	GLN	C-N-CA	-6.01	110.05	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	843	LYS	CD-CE-NZ	6.01	131.15	111.90
4	A	1163	ILE	CA-C-O	-6.01	114.81	119.98
10	I	78	CYS	CA-C-N	-6.01	110.05	121.54
10	I	78	CYS	C-N-CA	-6.01	110.05	121.54
11	J	29	GLU	CB-CA-C	6.01	122.80	112.27
5	B	761	HIS	CB-CG-ND1	-6.01	113.68	122.70
9	H	17	PRO	CB-CA-C	6.01	121.48	111.56
4	A	42	ASP	OD1-CG-OD2	-6.01	108.47	122.90
4	A	578	LEU	N-CA-CB	-6.01	100.96	110.22
4	A	1275	GLY	O-C-N	6.01	128.54	123.43
4	A	286	HIS	N-CA-C	6.01	123.60	110.80
5	B	490	SER	N-CA-C	-6.01	106.28	113.97
5	B	563	MET	CB-CG-SD	6.01	130.72	112.70
4	A	573	SER	N-CA-CB	6.01	119.93	110.56
5	B	954	VAL	CB-CA-C	-6.01	103.56	110.41
5	B	1213	THR	CA-CB-OG1	6.01	118.61	109.60
5	B	325	GLN	CA-C-N	6.00	133.01	121.54
5	B	325	GLN	C-N-CA	6.00	133.01	121.54
5	B	1209	ALA	CB-CA-C	6.00	121.06	110.37
4	A	594	GLY	CA-C-N	-6.00	113.16	122.59
4	A	594	GLY	C-N-CA	-6.00	113.16	122.59
4	A	1322	ILE	CB-CA-C	-6.00	102.98	111.21
5	B	571	PRO	O-C-N	6.00	129.14	122.24
6	C	10	ILE	CA-C-O	-6.00	113.97	121.11
6	C	139	GLY	N-CA-C	6.00	127.41	113.18
5	B	301	ILE	N-CA-C	6.00	121.82	109.34
5	B	657	HIS	CA-C-O	6.00	126.78	120.42
4	A	328	ARG	N-CA-C	-6.00	104.43	110.97
4	A	592	ASP	CA-CB-CG	6.00	118.60	112.60
4	A	1025	ARG	NE-CZ-NH2	6.00	124.60	119.20
5	B	419	THR	CA-C-N	-6.00	112.11	122.79
5	B	419	THR	C-N-CA	-6.00	112.11	122.79
5	B	634	TYR	O-C-N	6.00	130.57	122.59
4	A	736	ASN	N-CA-CB	6.00	120.62	110.49
5	B	705	MET	CA-CB-CG	-6.00	102.11	114.10
7	E	15	ALA	CA-C-O	6.00	129.09	120.51
10	I	82	GLU	CB-CA-C	6.00	120.39	110.74
12	K	18	LYS	CA-CB-CG	-6.00	102.11	114.10
4	A	354	SER	N-CA-C	6.00	117.35	108.60
5	B	394	ASP	N-CA-C	6.00	118.03	110.24
5	B	579	ARG	NE-CZ-NH2	-6.00	113.80	119.20
4	A	202	LEU	N-CA-C	5.99	118.45	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1277	GLU	N-CA-CB	5.99	119.22	109.69
5	B	694	ASP	N-CA-CB	5.99	120.41	110.52
5	B	1201	LYS	CD-CE-NZ	5.99	131.08	111.90
5	B	104	GLU	N-CA-CB	5.99	119.24	109.95
5	B	476	ARG	CB-CG-CD	5.99	125.08	111.30
7	E	115	ASN	N-CA-CB	5.99	120.61	110.49
12	K	24	ASP	CB-CG-OD2	5.99	132.18	118.40
4	A	579	SER	N-CA-C	5.99	119.42	111.75
5	B	736	THR	CA-CB-CG2	-5.99	100.32	110.50
6	C	216	GLY	CA-C-O	5.99	126.67	120.80
4	A	947	PHE	N-CA-C	-5.99	97.40	108.24
5	B	576	ASP	CA-C-O	5.99	129.07	120.51
11	J	42	LYS	CA-C-N	-5.99	112.21	120.71
11	J	42	LYS	C-N-CA	-5.99	112.21	120.71
5	B	361	LEU	N-CA-C	5.99	123.04	109.81
5	B	533	CYS	CA-CB-SG	-5.99	100.63	114.40
5	B	666	TYR	O-C-N	-5.99	114.63	122.59
6	C	18	VAL	N-CA-C	-5.99	96.89	109.34
10	I	108	HIS	O-C-N	-5.98	115.59	122.89
12	K	95	ILE	CA-C-O	5.98	127.17	120.95
4	A	451	HIS	N-CA-CB	5.98	120.60	110.49
4	A	701	LEU	N-CA-C	5.98	123.54	110.80
5	B	418	LYS	N-CA-C	-5.98	98.06	110.80
5	B	1098	MET	CB-CA-C	5.98	122.14	110.30
12	K	76	GLN	CA-C-O	5.98	126.96	120.32
4	A	603	ASN	CA-CB-CG	-5.98	106.62	112.60
4	A	1443	VAL	CB-CA-C	-5.98	100.84	110.28
13	L	65	VAL	O-C-N	5.98	129.66	123.20
4	A	226	GLU	CB-CG-CD	5.97	122.76	112.60
4	A	890	ASP	N-CA-CB	5.97	119.43	110.65
10	I	30	ARG	O-C-N	5.97	130.07	122.06
4	A	1289	ARG	CG-CD-NE	5.97	125.14	112.00
6	C	136	ASP	N-CA-CB	-5.97	100.40	110.49
4	A	98	LYS	CA-C-N	-5.97	111.22	121.97
4	A	98	LYS	C-N-CA	-5.97	111.22	121.97
4	A	533	LYS	CA-CB-CG	5.97	126.04	114.10
13	L	60	ARG	CG-CD-NE	5.97	125.13	112.00
4	A	610	GLY	N-CA-C	5.97	127.32	113.18
5	B	1045	SER	N-CA-CB	5.97	117.31	109.55
4	A	151	ASP	N-CA-C	5.97	116.47	108.23
4	A	1323	ASP	N-CA-C	-5.97	97.79	108.47
5	B	517	THR	OG1-CB-CG2	5.97	121.23	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	962	ARG	CB-CG-CD	5.96	125.02	111.30
9	H	19	ARG	CB-CA-C	5.96	122.29	110.42
4	A	1191	TRP	CA-C-O	5.96	126.74	120.54
4	A	418	SER	O-C-N	5.96	130.52	122.59
4	A	797	LYS	CD-CE-NZ	5.96	130.98	111.90
4	A	1257	ASP	N-CA-C	5.96	123.50	110.80
5	B	241	ARG	CA-C-N	-5.96	113.27	122.09
5	B	241	ARG	C-N-CA	-5.96	113.27	122.09
5	B	1063	GLY	CA-C-N	-5.96	111.89	122.74
5	B	1063	GLY	C-N-CA	-5.96	111.89	122.74
6	C	208	GLU	CA-C-O	-5.96	114.56	120.82
9	H	8	ASP	N-CA-C	5.96	117.55	108.07
4	A	717	ASN	CA-C-N	-5.96	113.05	120.56
4	A	717	ASN	C-N-CA	-5.96	113.05	120.56
4	A	830	LYS	CB-CA-C	-5.96	98.56	110.42
4	A	1299	VAL	CA-CB-CG2	-5.96	100.27	110.40
5	B	1204	PHE	N-CA-C	5.96	118.54	111.33
6	C	89	GLU	CA-CB-CG	5.96	126.02	114.10
9	H	38	LEU	N-CA-CB	-5.96	100.42	110.49
10	I	65	ASP	CB-CG-OD2	5.96	132.10	118.40
12	K	4	PRO	CA-CB-CG	-5.96	93.18	104.50
4	A	788	SER	CA-C-N	-5.96	111.90	122.74
4	A	788	SER	C-N-CA	-5.96	111.90	122.74
4	A	798	GLY	CA-C-N	-5.96	114.57	122.85
4	A	798	GLY	C-N-CA	-5.96	114.57	122.85
4	A	1166	ASP	CB-CA-C	-5.96	102.06	111.17
7	E	21	GLU	CB-CG-CD	5.96	122.72	112.60
10	I	95	THR	O-C-N	-5.96	115.42	123.10
5	B	1026	LEU	CA-C-O	5.96	127.27	120.90
6	C	77	ILE	N-CA-C	5.96	119.39	111.17
4	A	398	GLU	CA-CB-CG	5.95	126.01	114.10
4	A	739	ASP	CB-CG-OD2	5.95	132.09	118.40
4	A	1383	SER	N-CA-CB	-5.95	100.43	110.49
1	R	7	A	C2'-C3'-O3'	-5.95	104.77	113.70
4	A	1129	GLU	CA-C-N	-5.95	111.71	120.28
4	A	1129	GLU	C-N-CA	-5.95	111.71	120.28
11	J	64	ASN	CA-C-O	5.95	128.31	120.16
4	A	180	LYS	N-CA-C	5.95	119.24	109.72
5	B	797	TYR	CB-CA-C	-5.95	100.73	110.85
6	C	226	ASP	CB-CG-OD1	-5.95	104.71	118.40
4	A	71	GLN	O-C-N	5.95	130.50	122.59
4	A	433	GLU	CA-C-N	-5.95	112.58	122.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	433	GLU	C-N-CA	-5.95	112.58	122.21
4	A	1033	GLN	CB-CA-C	-5.95	97.56	109.99
5	B	120	ARG	N-CA-C	5.95	119.85	112.59
6	C	33	LEU	N-CA-CB	-5.95	100.86	110.14
4	A	528	LEU	O-C-N	-5.95	114.52	122.49
5	B	739	THR	CB-CA-C	-5.95	100.31	109.29
4	A	209	ASN	CA-C-N	-5.95	111.27	121.97
4	A	209	ASN	C-N-CA	-5.95	111.27	121.97
4	A	858	ASN	N-CA-C	5.95	119.58	110.36
9	H	122	LEU	N-CA-C	5.95	119.74	110.17
4	A	1092	LYS	CG-CD-CE	5.94	124.97	111.30
4	A	1168	GLU	O-C-N	5.94	130.50	122.59
5	B	1154	ALA	CA-C-O	-5.94	115.77	122.01
5	B	122	LEU	CD1-CG-CD2	5.94	123.87	110.80
5	B	373	ARG	NE-CZ-NH1	5.94	127.44	121.50
5	B	1043	ASP	CB-CA-C	-5.94	101.01	111.05
8	F	129	LYS	CA-CB-CG	5.94	125.98	114.10
4	A	231	PRO	N-CA-C	5.94	124.70	112.47
4	A	600	PRO	N-CD-CG	-5.94	94.30	103.20
4	A	644	LYS	CB-CG-CD	5.94	124.96	111.30
4	A	885	THR	CA-CB-CG2	-5.94	100.41	110.50
4	A	1116	LEU	CA-C-N	-5.94	112.79	121.76
4	A	1116	LEU	C-N-CA	-5.94	112.79	121.76
5	B	411	PRO	CB-CA-C	5.94	121.36	111.56
4	A	1062	GLU	CG-CD-OE1	-5.94	104.75	118.40
1	R	7	A	O3'-P-O5'	5.93	112.90	104.00
4	A	85	ASP	CB-CG-OD2	5.93	132.05	118.40
4	A	1073	GLY	O-C-N	5.93	128.00	122.13
5	B	498	THR	CA-C-N	-5.93	111.48	121.75
5	B	498	THR	C-N-CA	-5.93	111.48	121.75
7	E	73	PRO	CB-CA-C	-5.93	101.77	111.56
4	A	249	SER	O-C-N	-5.93	114.70	122.59
7	E	102	GLU	CB-CG-CD	5.93	122.69	112.60
10	I	45	ARG	O-C-N	5.93	130.90	123.19
4	A	1026	LEU	N-CA-C	5.93	123.43	110.80
5	B	853	SER	CB-CA-C	-5.93	99.13	113.19
4	A	179	LEU	CA-CB-CG	5.93	137.05	116.30
4	A	317	LYS	CA-C-N	-5.93	110.22	121.54
4	A	317	LYS	C-N-CA	-5.93	110.22	121.54
5	B	512	ARG	CB-CA-C	5.93	119.97	109.65
5	B	558	LEU	CB-CG-CD1	-5.93	92.91	110.70
5	B	1008	PRO	CA-C-O	5.93	129.25	121.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	E	149	LEU	CA-C-N	-5.93	113.97	123.46
7	E	149	LEU	C-N-CA	-5.93	113.97	123.46
4	A	566	ILE	O-C-N	5.93	126.54	121.98
4	A	571	LEU	CA-C-N	-5.93	112.31	123.27
4	A	571	LEU	C-N-CA	-5.93	112.31	123.27
4	A	945	GLU	CB-CG-CD	5.93	122.67	112.60
4	A	1348	LEU	CB-CA-C	5.93	120.18	110.88
5	B	473	MET	CB-CG-SD	5.93	130.48	112.70
4	A	485	ASP	N-CA-C	-5.92	102.29	110.35
4	A	926	GLN	CB-CA-C	5.92	123.45	110.18
4	A	1268	LEU	N-CA-C	5.92	119.33	111.75
5	B	30	SER	CA-C-N	-5.92	109.45	121.18
5	B	30	SER	C-N-CA	-5.92	109.45	121.18
5	B	497	ARG	CB-CG-CD	5.92	124.92	111.30
5	B	976	ILE	CA-CB-CG2	-5.92	100.43	110.50
5	B	1092	TYR	N-CA-CB	-5.92	101.73	110.85
4	A	43	GLU	CA-CB-CG	5.92	125.94	114.10
4	A	301	ALA	CA-C-N	-5.92	111.94	120.82
4	A	301	ALA	C-N-CA	-5.92	111.94	120.82
4	A	438	ASP	CA-C-O	5.92	127.66	121.15
4	A	1189	SER	CB-CA-C	5.92	122.82	110.50
5	B	757	PRO	N-CA-C	-5.92	100.90	110.55
7	E	46	TYR	CA-C-O	5.92	126.23	119.18
4	A	680	THR	O-C-N	5.92	128.48	122.09
4	A	444	PHE	CA-C-O	-5.92	113.11	120.57
5	B	99	LYS	CD-CE-NZ	5.92	130.84	111.90
5	B	350	GLN	N-CA-CB	5.92	120.49	110.49
5	B	422	LYS	CB-CG-CD	5.92	124.91	111.30
8	F	92	ARG	CD-NE-CZ	5.92	132.69	124.40
4	A	1117	THR	CA-C-N	5.92	131.16	122.94
4	A	1117	THR	C-N-CA	5.92	131.16	122.94
5	B	210	LYS	O-C-N	5.92	131.04	123.11
5	B	883	LEU	CB-CG-CD2	5.92	128.44	110.70
2	T	25	DC	N1-C1'-C2'	-5.91	104.63	113.50
4	A	302	THR	N-CA-C	5.91	121.13	111.37
4	A	1155	ASP	CB-CG-OD1	5.91	132.00	118.40
5	B	103	ASN	CA-C-N	-5.91	113.04	121.50
5	B	103	ASN	C-N-CA	-5.91	113.04	121.50
5	B	762	ASN	N-CA-CB	-5.91	100.58	110.57
5	B	771	SER	CA-CB-OG	-5.91	99.27	111.10
6	C	135	GLN	CB-CA-C	-5.91	99.82	110.35
7	E	81	GLU	N-CA-C	5.91	118.85	107.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	I	5	ARG	CB-CG-CD	5.91	124.90	111.30
10	I	49	ILE	CB-CA-C	5.91	117.15	110.41
5	B	804	GLY	CA-C-N	-5.91	114.36	122.16
5	B	804	GLY	C-N-CA	-5.91	114.36	122.16
4	A	440	ASP	N-CA-CB	5.91	117.94	109.78
4	A	628	GLY	CA-C-N	-5.91	110.00	120.99
4	A	628	GLY	C-N-CA	-5.91	110.00	120.99
5	B	864	LYS	CA-CB-CG	5.91	125.92	114.10
7	E	38	PRO	N-CA-CB	5.91	109.46	103.25
4	A	541	ILE	N-CA-CB	-5.91	103.25	111.99
5	B	476	ARG	CG-CD-NE	-5.91	99.00	112.00
5	B	852	ARG	N-CA-C	5.91	119.30	110.14
5	B	880	THR	CA-C-N	5.91	132.83	121.54
5	B	880	THR	C-N-CA	5.91	132.83	121.54
10	I	104	LEU	O-C-N	5.91	129.63	122.48
4	A	65	LEU	N-CA-CB	-5.91	101.36	110.46
4	A	702	LEU	CA-C-N	5.91	131.15	123.00
4	A	702	LEU	C-N-CA	5.91	131.15	123.00
4	A	8	SER	N-CA-C	-5.91	103.54	112.04
4	A	681	GLU	CB-CA-C	5.91	120.89	110.85
5	B	696	GLU	CB-CA-C	-5.91	100.94	110.74
5	B	832	GLY	CA-C-N	-5.91	112.11	122.62
5	B	832	GLY	C-N-CA	-5.91	112.11	122.62
5	B	1077	THR	N-CA-CB	-5.91	102.74	110.59
7	E	29	PHE	N-CA-C	5.90	118.30	108.20
5	B	118	ARG	CB-CG-CD	5.90	124.88	111.30
5	B	738	PHE	CA-C-O	5.90	128.95	120.51
5	B	991	GLY	CA-C-O	5.90	130.84	120.57
6	C	226	ASP	CB-CA-C	-5.90	97.05	109.38
9	H	58	THR	OG1-CB-CG2	5.90	121.10	109.30
7	E	112	TYR	CA-C-N	-5.90	112.88	122.26
7	E	112	TYR	C-N-CA	-5.90	112.88	122.26
12	K	25	THR	N-CA-C	5.90	117.51	111.14
4	A	878	ILE	N-CA-C	5.90	118.37	108.81
12	K	62	LYS	N-CA-C	5.90	118.08	108.76
4	A	146	MET	CA-C-N	5.90	131.34	122.91
4	A	146	MET	C-N-CA	5.90	131.34	122.91
13	L	44	ASP	OD1-CG-OD2	-5.90	108.75	122.90
4	A	49	LYS	CG-CD-CE	5.90	124.86	111.30
5	B	1207	LEU	CB-CA-C	-5.90	101.38	110.81
7	E	214	CYS	O-C-N	5.90	129.69	123.03
6	C	233	GLU	N-CA-CB	5.89	120.18	110.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	505	CYS	CA-C-N	-5.89	112.02	122.74
4	A	505	CYS	C-N-CA	-5.89	112.02	122.74
4	A	1153	TYR	CE1-CZ-OH	5.89	137.58	119.90
4	A	1391	ARG	O-C-N	-5.89	114.24	122.37
4	A	1391	ARG	CA-C-O	5.89	126.41	119.28
6	C	121	VAL	CB-CA-C	-5.89	103.34	111.65
4	A	976	THR	CA-CB-CG2	5.89	120.51	110.50
5	B	815	ARG	CB-CA-C	-5.89	99.20	110.57
6	C	162	GLY	O-C-N	-5.89	116.48	123.61
4	A	560	ILE	CB-CA-C	-5.89	100.64	111.36
5	B	959	ASP	CB-CA-C	-5.89	98.70	110.42
4	A	443	LEU	CD1-CG-CD2	5.89	123.75	110.80
4	A	1007	ILE	O-C-N	5.89	129.12	121.94
5	B	351	TYR	CA-C-N	-5.89	111.93	120.29
5	B	351	TYR	C-N-CA	-5.89	111.93	120.29
5	B	584	GLY	O-C-N	5.89	129.91	122.43
4	A	957	PRO	O-C-N	5.89	130.18	123.00
4	A	1329	THR	N-CA-C	5.89	117.85	107.61
5	B	965	LYS	CG-CD-CE	5.89	124.84	111.30
5	B	1077	THR	CA-C-N	-5.89	116.44	123.44
5	B	1077	THR	C-N-CA	-5.89	116.44	123.44
6	C	246	ARG	NE-CZ-NH1	-5.89	115.61	121.50
9	H	15	VAL	CA-C-N	-5.89	112.96	123.08
9	H	15	VAL	C-N-CA	-5.89	112.96	123.08
10	I	46	HIS	O-C-N	-5.89	116.02	121.79
11	J	3	VAL	N-CA-CB	-5.89	102.97	111.21
4	A	588	LEU	CD1-CG-CD2	5.88	123.74	110.80
4	A	638	GLY	CA-C-N	-5.88	112.95	119.19
4	A	638	GLY	C-N-CA	-5.88	112.95	119.19
4	A	857	ARG	CG-CD-NE	-5.88	99.06	112.00
5	B	116	GLU	CA-C-N	-5.88	110.69	121.52
5	B	116	GLU	C-N-CA	-5.88	110.69	121.52
5	B	219	ALA	N-CA-C	5.88	117.65	110.41
5	B	567	GLU	CB-CA-C	5.88	120.61	110.84
6	C	131	HIS	CA-C-N	-5.88	112.48	119.84
6	C	131	HIS	C-N-CA	-5.88	112.48	119.84
4	A	760	GLN	N-CA-C	-5.88	104.95	111.36
4	A	979	SER	N-CA-CB	5.88	120.43	110.49
5	B	983	ARG	CA-CB-CG	5.88	125.87	114.10
7	E	55	ARG	CA-C-O	-5.88	112.10	120.51
4	A	226	GLU	N-CA-C	-5.88	98.27	110.80
5	B	812	LEU	CA-C-O	5.88	126.42	119.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	K	27	ALA	N-CA-CB	-5.88	99.90	110.37
4	A	37	PHE	CB-CA-C	5.88	117.72	108.84
4	A	359	LEU	CA-CB-CG	-5.88	95.72	116.30
4	A	238	CYS	N-CA-CB	-5.88	100.56	110.49
4	A	296	LEU	CB-CG-CD1	-5.88	93.07	110.70
4	A	1130	GLN	CB-CG-CD	5.88	122.59	112.60
5	B	843	GLN	CA-C-N	-5.88	112.44	120.44
5	B	843	GLN	C-N-CA	-5.88	112.44	120.44
5	B	1132	GLU	N-CA-CB	-5.88	100.56	110.49
5	B	1133	MET	N-CA-CB	-5.88	101.48	110.12
6	C	183	TRP	CA-CB-CG	-5.88	102.43	113.60
7	E	4	GLU	OE1-CD-OE2	-5.88	108.79	122.90
4	A	236	LEU	CB-CA-C	-5.88	100.96	110.77
4	A	898	ARG	NE-CZ-NH2	5.88	124.49	119.20
5	B	288	ALA	CA-C-N	-5.88	112.89	122.65
5	B	288	ALA	C-N-CA	-5.88	112.89	122.65
9	H	131	ASN	N-CA-C	-5.88	98.28	110.80
4	A	431	LYS	CG-CD-CE	5.88	124.81	111.30
5	B	189	LEU	CA-CB-CG	-5.88	95.74	116.30
5	B	590	HIS	CA-C-O	-5.88	113.50	120.43
4	A	689	LYS	CG-CD-CE	5.87	124.81	111.30
5	B	175	ARG	CG-CD-NE	-5.87	99.08	112.00
5	B	1045	SER	CA-C-N	-5.87	112.50	119.84
5	B	1045	SER	C-N-CA	-5.87	112.50	119.84
12	K	69	ALA	CA-C-N	-5.87	112.77	122.11
12	K	69	ALA	C-N-CA	-5.87	112.77	122.11
5	B	386	LEU	N-CA-CB	5.87	119.16	110.53
4	A	1384	VAL	CA-CB-CG1	-5.87	100.42	110.40
4	A	375	THR	CA-CB-CG2	5.87	120.48	110.50
4	A	763	ALA	CB-CA-C	-5.87	108.62	117.07
4	A	1013	ASP	O-C-N	-5.87	114.36	122.46
4	A	1316	VAL	N-CA-C	-5.87	106.55	113.42
5	B	689	LEU	CA-C-O	5.87	126.40	119.48
8	F	155	LEU	CB-CA-C	5.87	121.25	110.10
4	A	884	ASP	CA-C-N	-5.87	111.83	120.28
4	A	884	ASP	C-N-CA	-5.87	111.83	120.28
5	B	494	HIS	CB-CG-ND1	-5.87	113.90	122.70
5	B	995	ARG	NE-CZ-NH1	-5.87	115.63	121.50
6	C	195	GLN	N-CA-C	-5.87	98.30	110.80
7	E	85	GLU	O-C-N	5.87	126.77	120.85
4	A	1014	ALA	N-CA-CB	-5.86	100.84	110.40
5	B	241	ARG	CB-CA-C	5.86	121.53	111.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	F	140	ASP	CA-C-N	-5.86	109.92	121.41
8	F	140	ASP	C-N-CA	-5.86	109.92	121.41
4	A	849	MET	CA-C-O	5.86	128.89	120.51
4	A	910	PRO	CA-C-N	5.86	130.64	120.68
4	A	910	PRO	C-N-CA	5.86	130.64	120.68
4	A	956	LEU	CD1-CG-CD2	5.86	123.69	110.80
5	B	759	PRO	N-CA-CB	-5.86	96.49	102.88
7	E	72	PHE	N-CA-CB	5.86	120.80	110.37
12	K	70	ARG	CB-CG-CD	5.86	124.78	111.30
4	A	170	THR	N-CA-CB	-5.86	97.87	110.88
5	B	349	ILE	CA-C-O	-5.86	114.96	121.17
5	B	134	LYS	CB-CG-CD	5.86	124.77	111.30
9	H	146	ARG	CB-CA-C	5.86	121.23	110.10
4	A	39	GLU	CG-CD-OE2	-5.86	104.93	118.40
4	A	260	ASP	CB-CA-C	-5.86	98.65	111.71
4	A	492	PRO	CB-CG-CD	-5.86	87.36	106.10
5	B	316	PRO	CA-N-CD	-5.86	103.80	112.00
4	A	452	LYS	CA-C-O	5.85	126.73	120.70
4	A	1033	GLN	O-C-N	5.85	130.54	122.46
5	B	241	ARG	CG-CD-NE	5.85	124.88	112.00
10	I	80	SER	CA-C-N	-5.85	111.25	122.61
10	I	80	SER	C-N-CA	-5.85	111.25	122.61
5	B	36	ALA	CB-CA-C	-5.85	101.02	110.74
4	A	237	THR	OG1-CB-CG2	5.85	121.00	109.30
5	B	1159	ARG	N-CA-C	5.85	119.36	109.76
4	A	54	ASN	CB-CA-C	5.85	122.06	110.42
6	C	260	LEU	N-CA-CB	-5.85	101.31	110.44
4	A	589	GLN	CA-CB-CG	-5.85	102.41	114.10
4	A	1230	GLU	CA-C-O	-5.85	115.32	121.99
5	B	935	ARG	N-CA-CB	5.85	119.01	109.95
11	J	50	ILE	CA-CB-CG2	5.85	120.44	110.50
4	A	1373	ASP	N-CA-CB	-5.85	100.61	110.49
2	T	19	DT	OP2-P-O3'	-5.84	90.47	108.00
4	A	1111	MET	CB-CA-C	-5.84	100.02	109.72
5	B	457	LEU	N-CA-CB	-5.84	100.61	110.49
13	L	34	CYS	CA-CB-SG	-5.84	100.96	114.40
4	A	1152	ILE	CG1-CB-CG2	-5.84	93.17	110.70
4	A	1293	SER	N-CA-C	-5.84	101.71	110.24
5	B	261	ARG	CA-C-N	-5.84	113.25	121.72
5	B	261	ARG	C-N-CA	-5.84	113.25	121.72
7	E	84	ASP	CB-CA-C	-5.84	98.79	110.42
9	H	2	SER	O-C-N	-5.84	113.65	123.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	582	VAL	CA-C-O	5.84	126.52	120.39
7	E	22	MET	CB-CA-C	-5.84	98.80	110.42
7	E	198	ILE	CB-CA-C	-5.84	102.80	111.80
12	K	98	LEU	CA-C-N	5.84	132.86	121.41
12	K	98	LEU	C-N-CA	5.84	132.86	121.41
4	A	561	PRO	CA-C-O	5.84	131.23	120.60
4	A	1042	PHE	O-C-N	-5.84	114.82	122.59
4	A	1304	TRP	CA-C-N	-5.84	114.82	122.94
4	A	1304	TRP	C-N-CA	-5.84	114.82	122.94
5	B	661	LEU	N-CA-CB	-5.84	101.29	110.46
5	B	685	LEU	CB-CG-CD2	5.84	128.22	110.70
5	B	712	PRO	N-CA-CB	-5.84	97.12	103.25
13	L	65	VAL	CA-CB-CG1	-5.84	100.47	110.40
4	A	39	GLU	CB-CA-C	5.84	123.01	111.22
4	A	54	ASN	O-C-N	5.84	130.35	122.59
13	L	39	SER	N-CA-CB	5.84	120.36	110.49
2	T	12	DC	OP2-P-O3'	5.84	125.51	108.00
4	A	104	GLU	CA-C-O	-5.84	112.16	120.51
4	A	698	GLN	CB-CG-CD	5.84	122.52	112.60
7	E	156	LEU	CA-C-N	5.84	132.69	121.54
7	E	156	LEU	C-N-CA	5.84	132.69	121.54
5	B	205	ILE	N-CA-CB	-5.83	104.75	112.34
5	B	979	LYS	N-CA-CB	-5.83	101.12	110.46
5	B	1025	HIS	N-CA-C	-5.83	98.37	110.80
10	I	89	GLN	CA-C-N	-5.83	110.34	122.07
10	I	89	GLN	C-N-CA	-5.83	110.34	122.07
12	K	74	ARG	CD-NE-CZ	5.83	132.57	124.40
5	B	125	SER	CA-CB-OG	-5.83	99.43	111.10
5	B	474	SER	CB-CA-C	5.83	122.18	109.99
6	C	43	THR	CA-C-N	-5.83	115.01	122.77
6	C	43	THR	C-N-CA	-5.83	115.01	122.77
9	H	28	ALA	O-C-N	5.83	130.04	123.27
4	A	731	ARG	CG-CD-NE	5.83	124.83	112.00
4	A	1007	ILE	CB-CA-C	-5.83	104.24	111.94
5	B	533	CYS	CA-C-N	-5.83	109.98	121.41
5	B	533	CYS	C-N-CA	-5.83	109.98	121.41
6	C	235	VAL	N-CA-C	5.83	119.25	111.44
7	E	173	SER	N-CA-C	5.83	117.31	111.07
9	H	88	SER	N-CA-CB	-5.83	100.59	109.92
5	B	906	SER	CA-C-O	-5.83	114.73	121.26
8	F	155	LEU	N-CA-CB	-5.83	100.59	110.50
10	I	37	GLU	CB-CA-C	5.83	119.62	109.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	L	51	CYS	N-CA-CB	-5.83	100.74	110.42
4	A	120	GLU	O-C-N	5.83	129.71	122.19
4	A	377	PRO	CB-CA-C	-5.83	101.94	111.56
4	A	479	ASN	CB-CG-OD1	5.83	132.46	120.80
4	A	1144	LYS	CD-CE-NZ	5.83	130.55	111.90
4	A	1194	ARG	N-CA-C	5.83	120.08	107.49
8	F	143	PHE	N-CA-C	5.83	123.21	110.80
5	B	899	ILE	CA-C-O	5.83	128.06	120.78
6	C	107	SER	CA-C-O	5.83	128.84	120.51
6	C	198	ALA	CA-C-O	-5.83	111.99	118.69
7	E	78	LEU	CB-CG-CD1	5.83	128.18	110.70
5	B	298	LEU	CD1-CG-CD2	-5.83	97.98	110.80
6	C	83	SER	CA-C-O	-5.83	114.88	121.00
9	H	7	ASP	N-CA-CB	-5.83	100.69	111.52
10	I	106	CYS	CB-CA-C	-5.83	101.58	111.02
4	A	815	PHE	CA-C-O	5.82	126.92	120.80
7	E	131	THR	N-CA-C	5.82	123.21	110.80
12	K	87	LEU	CD1-CG-CD2	-5.82	97.99	110.80
4	A	1198	ASP	N-CA-CB	5.82	118.85	110.06
8	F	102	SER	CA-CB-OG	-5.82	99.46	111.10
4	A	508	PRO	N-CD-CG	-5.82	94.47	103.20
4	A	840	ARG	N-CA-C	-5.82	106.01	113.23
10	I	17	ARG	CD-NE-CZ	5.82	132.55	124.40
5	B	742	GLU	CA-C-N	-5.82	112.49	120.46
5	B	742	GLU	C-N-CA	-5.82	112.49	120.46
5	B	1186	ASP	N-CA-C	-5.82	105.48	112.58
7	E	63	ASN	CA-CB-CG	-5.82	106.78	112.60
4	A	962	ARG	N-CA-CB	5.82	119.22	110.14
10	I	17	ARG	CG-CD-NE	-5.82	99.20	112.00
4	A	629	LEU	CA-C-N	-5.82	111.50	121.97
4	A	629	LEU	C-N-CA	-5.82	111.50	121.97
7	E	54	GLN	N-CA-C	5.82	118.64	108.52
9	H	29	ALA	CA-C-O	5.82	127.73	121.16
10	I	42	LEU	O-C-N	-5.82	115.38	122.82
5	B	312	GLU	N-CA-CB	-5.81	101.35	110.30
6	C	191	TYR	N-CA-C	5.81	117.83	110.33
13	L	30	ILE	N-CA-C	-5.81	97.25	109.34
8	F	75	PRO	CA-C-O	-5.81	110.02	120.60
8	F	97	ARG	N-CA-C	-5.81	104.86	111.14
4	A	35	ILE	N-CA-C	5.81	121.43	109.34
4	A	394	ASN	CB-CA-C	-5.81	101.10	110.74
4	A	907	THR	CB-CA-C	-5.81	99.98	111.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	939	THR	CA-CB-OG1	5.81	118.31	109.60
5	B	1142	GLY	CA-C-N	-5.81	113.28	122.23
5	B	1142	GLY	C-N-CA	-5.81	113.28	122.23
5	B	1222	ARG	CD-NE-CZ	5.81	132.53	124.40
7	E	13	TRP	N-CA-CB	-5.81	101.56	110.16
4	A	458	HIS	CA-C-O	5.81	128.72	121.46
4	A	49	LYS	CB-CG-CD	5.80	124.65	111.30
4	A	389	THR	CB-CA-C	-5.80	101.52	110.81
4	A	698	GLN	N-CA-C	-5.80	106.20	113.28
4	A	794	PRO	O-C-N	5.80	130.48	122.64
4	A	923	LEU	N-CA-C	5.80	123.16	110.80
4	A	1116	LEU	CB-CA-C	-5.80	97.86	109.35
4	A	1256	GLU	N-CA-C	5.80	123.17	110.80
5	B	497	ARG	CA-CB-CG	5.80	125.71	114.10
5	B	1044	ALA	N-CA-C	-5.80	98.44	110.80
10	I	36	GLU	CA-C-N	-5.80	112.63	120.87
10	I	36	GLU	C-N-CA	-5.80	112.63	120.87
13	L	56	LEU	CB-CA-C	-5.80	98.87	110.42
4	A	469	ARG	CA-C-N	-5.80	113.19	122.53
4	A	469	ARG	C-N-CA	-5.80	113.19	122.53
4	A	910	PRO	CB-CA-C	5.80	121.13	111.56
4	A	1272	THR	OG1-CB-CG2	5.80	120.91	109.30
5	B	958	GLN	CB-CG-CD	5.80	122.46	112.60
8	F	73	ALA	O-C-N	5.80	130.31	122.59
4	A	518	LYS	CB-CG-CD	5.80	124.64	111.30
4	A	790	ASP	CA-CB-CG	5.80	118.40	112.60
5	B	699	GLU	OE1-CD-OE2	5.80	136.82	122.90
4	A	1229	SER	CA-C-N	-5.80	110.16	121.06
4	A	1229	SER	C-N-CA	-5.80	110.16	121.06
5	B	709	ASP	CA-C-N	-5.80	113.56	122.60
5	B	709	ASP	C-N-CA	-5.80	113.56	122.60
5	B	1175	LEU	CA-C-N	-5.80	110.47	121.54
5	B	1175	LEU	C-N-CA	-5.80	110.47	121.54
10	I	4	PHE	CB-CA-C	5.80	121.96	110.42
4	A	980	ASP	CB-CA-C	5.80	121.96	110.42
5	B	898	LEU	N-CA-C	5.80	119.82	107.70
5	B	1224	PHE	CA-CB-CG	5.80	119.60	113.80
5	B	539	LEU	CB-CG-CD1	-5.79	93.31	110.70
5	B	743	ILE	CB-CA-C	-5.79	104.32	112.14
4	A	475	THR	CA-CB-OG1	-5.79	100.91	109.60
5	B	1160	VAL	CA-C-O	-5.79	115.59	121.67
12	K	3	ALA	CB-CA-C	-5.79	100.06	109.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	464	PRO	CB-CA-C	-5.79	102.47	111.22
4	A	1262	LYS	CB-CA-C	5.79	122.54	110.32
5	B	355	ILE	O-C-N	-5.79	115.33	122.57
8	F	141	GLY	O-C-N	5.79	130.23	122.70
4	A	80	HIS	N-CA-CB	5.79	120.11	110.85
4	A	1041	ALA	CA-C-N	-5.79	110.48	121.54
4	A	1041	ALA	C-N-CA	-5.79	110.48	121.54
4	A	1045	VAL	N-CA-C	-5.79	97.30	109.34
13	L	27	LEU	CA-C-N	-5.79	110.48	121.54
13	L	27	LEU	C-N-CA	-5.79	110.48	121.54
4	A	1038	THR	N-CA-CB	5.79	124.20	111.87
9	H	116	TYR	N-CA-CB	-5.79	101.37	110.69
4	A	431	LYS	CB-CG-CD	5.79	124.61	111.30
5	B	413	LEU	CA-CB-CG	-5.79	96.05	116.30
4	A	598	LEU	CD1-CG-CD2	5.79	123.53	110.80
4	A	787	PHE	CA-C-N	-5.79	110.49	121.54
4	A	787	PHE	C-N-CA	-5.79	110.49	121.54
4	A	1367	HIS	N-CA-CB	-5.79	101.03	109.82
5	B	110	HIS	N-CA-CB	5.79	119.25	110.45
10	I	93	LYS	CG-CD-CE	5.79	124.61	111.30
4	A	57	ARG	CD-NE-CZ	5.78	132.50	124.40
6	C	57	VAL	CG1-CB-CG2	5.78	123.52	110.80
4	A	1234	GLU	O-C-N	-5.78	116.02	122.03
5	B	654	ARG	N-CA-C	5.78	117.32	108.42
5	B	886	LYS	CA-C-O	-5.78	114.27	120.92
10	I	11	ASN	CB-CA-C	-5.78	98.92	110.42
12	K	102	LYS	O-C-N	5.78	128.02	122.07
4	A	944	ARG	N-CA-CB	5.78	120.58	110.18
4	A	1227	ILE	CA-C-O	-5.78	113.56	120.78
4	A	142	CYS	CB-CA-C	-5.78	98.59	111.77
4	A	1363	VAL	CA-C-N	-5.78	113.16	121.42
4	A	1363	VAL	C-N-CA	-5.78	113.16	121.42
5	B	48	LEU	CB-CG-CD2	-5.78	93.37	110.70
5	B	188	ASP	CA-CB-CG	5.78	118.38	112.60
5	B	550	ASP	CA-C-O	5.78	126.83	119.67
9	H	104	PHE	N-CA-C	-5.78	96.24	107.62
11	J	46	CYS	CA-C-N	-5.78	112.09	120.29
11	J	46	CYS	C-N-CA	-5.78	112.09	120.29
12	K	9	LEU	CB-CA-C	-5.78	99.94	110.63
4	A	98	LYS	CB-CA-C	5.78	121.91	110.42
4	A	250	ILE	N-CA-CB	-5.78	101.70	111.23
5	B	456	GLY	O-C-N	5.78	130.21	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	37	PHE	CA-C-N	-5.77	110.52	121.54
5	B	37	PHE	C-N-CA	-5.77	110.52	121.54
7	E	190	LEU	N-CA-C	5.77	119.02	110.48
9	H	59	ILE	CA-C-N	-5.77	110.51	121.54
9	H	59	ILE	C-N-CA	-5.77	110.51	121.54
8	F	129	LYS	O-C-N	-5.77	115.49	122.65
3	N	10	DG	C2'-C3'-O3'	-5.77	102.84	111.50
4	A	177	ASP	N-CA-CB	5.77	119.61	110.84
4	A	990	VAL	CG1-CB-CG2	5.77	123.49	110.80
5	B	976	ILE	CB-CA-C	-5.77	104.48	112.04
7	E	133	GLU	CA-C-N	5.77	130.96	123.00
7	E	133	GLU	C-N-CA	5.77	130.96	123.00
8	F	97	ARG	CA-C-O	5.77	126.64	120.70
5	B	29	ASP	O-C-N	-5.77	114.92	122.59
5	B	593	PRO	N-CA-C	-5.77	100.59	112.47
4	A	535	THR	CB-CA-C	5.77	120.65	110.85
4	A	984	LYS	CD-CE-NZ	5.77	130.35	111.90
5	B	693	ILE	O-C-N	-5.77	116.82	122.93
4	A	544	ASP	O-C-N	-5.76	114.92	122.59
4	A	690	VAL	CA-C-N	-5.76	110.53	121.54
4	A	690	VAL	C-N-CA	-5.76	110.53	121.54
6	C	62	PHE	N-CA-CB	-5.76	101.63	110.16
4	A	426	LEU	CA-C-N	-5.76	114.24	122.77
4	A	426	LEU	C-N-CA	-5.76	114.24	122.77
4	A	651	LYS	CA-CB-CG	-5.76	102.58	114.10
5	B	349	ILE	N-CA-C	-5.76	104.89	110.42
5	B	953	LEU	CB-CA-C	5.76	120.68	109.33
5	B	953	LEU	N-CA-CB	-5.76	101.23	111.08
10	I	54	GLU	CB-CG-CD	5.76	122.39	112.60
4	A	1242	VAL	CG1-CB-CG2	5.76	123.47	110.80
6	C	238	ILE	N-CA-CB	-5.76	103.15	111.21
10	I	112	SER	N-CA-C	5.76	120.31	113.28
4	A	1400	CYS	CB-CA-C	-5.76	98.97	110.42
5	B	775	LYS	CD-CE-NZ	-5.76	93.48	111.90
5	B	779	GLY	CA-C-O	5.76	126.23	121.05
6	C	11	ARG	CA-C-N	-5.76	112.26	122.74
6	C	11	ARG	C-N-CA	-5.76	112.26	122.74
6	C	118	LEU	CA-CB-CG	5.76	136.45	116.30
6	C	249	ASP	CA-C-O	5.76	126.94	120.89
4	A	1032	LEU	CA-C-N	-5.75	111.07	121.14
4	A	1032	LEU	C-N-CA	-5.75	111.07	121.14
1	R	4	G	OP1-P-O3'	5.75	125.26	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	824	LEU	CA-C-N	-5.75	113.51	120.70
4	A	824	LEU	C-N-CA	-5.75	113.51	120.70
4	A	1298	TYR	CA-C-O	-5.75	114.72	121.16
5	B	700	SER	CA-CB-OG	-5.75	99.59	111.10
7	E	158	SER	CA-C-O	5.75	128.74	120.51
4	A	469	ARG	NE-CZ-NH2	5.75	124.38	119.20
4	A	604	GLY	O-C-N	-5.75	117.31	122.77
4	A	1424	VAL	N-CA-CB	5.75	116.66	110.62
11	J	51	LEU	CA-C-O	5.75	126.58	119.97
12	K	103	THR	OG1-CB-CG2	5.75	120.80	109.30
4	A	636	GLU	CA-C-N	5.75	128.26	120.44
4	A	636	GLU	C-N-CA	5.75	128.26	120.44
4	A	1210	GLY	O-C-N	5.75	127.70	122.18
5	B	810	GLU	CA-C-N	-5.75	110.44	121.94
5	B	810	GLU	C-N-CA	-5.75	110.44	121.94
5	B	421	PHE	O-C-N	5.75	130.23	122.59
5	B	1010	LEU	N-CA-CB	-5.75	101.16	110.81
5	B	1078	GLY	CA-C-O	5.75	124.56	119.56
10	I	99	LEU	CA-CB-CG	-5.75	96.19	116.30
4	A	533	LYS	CB-CA-C	-5.75	98.45	110.17
5	B	950	ASP	CA-CB-CG	5.74	118.34	112.60
5	B	1127	GLY	CA-C-N	-5.74	112.75	123.03
5	B	1127	GLY	C-N-CA	-5.74	112.75	123.03
7	E	129	PRO	CA-C-N	-5.74	109.26	121.32
7	E	129	PRO	C-N-CA	-5.74	109.26	121.32
10	I	36	GLU	OE1-CD-OE2	-5.74	109.12	122.90
4	A	1019	CYS	CA-CB-SG	-5.74	101.19	114.40
5	B	459	TYR	CB-CG-CD2	5.74	129.41	120.80
5	B	1188	LYS	CG-CD-CE	5.74	124.51	111.30
9	H	105	GLU	CB-CG-CD	5.74	122.36	112.60
4	A	1405	THR	CA-C-O	5.74	126.01	119.18
5	B	1088	GLY	N-CA-C	5.74	124.05	112.34
4	A	482	PHE	CA-C-N	-5.74	114.62	123.17
4	A	482	PHE	C-N-CA	-5.74	114.62	123.17
4	A	938	LYS	O-C-N	5.74	130.22	122.59
4	A	986	ILE	N-CA-CB	-5.74	101.76	111.23
5	B	710	LEU	N-CA-CB	5.74	119.62	110.73
5	B	724	ASP	CA-C-O	5.74	128.02	120.16
6	C	202	PRO	N-CA-CB	-5.74	97.22	103.25
6	C	212	PRO	CA-CB-CG	-5.74	93.60	104.50
4	A	1156	PRO	CA-CB-CG	-5.74	93.60	104.50
5	B	21	GLU	CB-CA-C	-5.74	99.00	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	192	LEU	N-CA-C	5.74	119.81	113.21
4	A	110	CYS	N-CA-CB	5.74	118.22	110.59
4	A	755	PHE	O-C-N	5.74	128.76	122.11
5	B	459	TYR	OH-CZ-CE2	5.74	137.11	119.90
7	E	87	SER	N-CA-C	-5.74	99.98	108.99
7	E	144	ILE	N-CA-C	-5.74	105.14	110.53
12	K	36	GLU	CB-CA-C	5.74	119.32	109.51
4	A	435	HIS	N-CA-C	-5.73	98.59	110.80
5	B	131	ASP	OD1-CG-OD2	-5.73	109.14	122.90
5	B	302	CYS	CA-CB-SG	-5.73	101.21	114.40
4	A	546	VAL	CA-CB-CG2	-5.73	100.66	110.40
4	A	976	THR	CA-C-N	5.73	129.23	121.20
4	A	976	THR	C-N-CA	5.73	129.23	121.20
4	A	1012	ARG	CB-CG-CD	5.73	124.49	111.30
4	A	1111	MET	CG-SD-CE	-5.73	88.29	100.90
5	B	1020	ARG	CG-CD-NE	-5.73	99.39	112.00
5	B	1118	PRO	CB-CA-C	-5.73	103.72	111.12
4	A	1221	LYS	O-C-N	5.73	130.21	122.59
4	A	1281	ARG	CA-C-N	5.73	132.29	121.97
4	A	1281	ARG	C-N-CA	5.73	132.29	121.97
11	J	58	GLU	CA-C-N	-5.73	112.01	121.92
11	J	58	GLU	C-N-CA	-5.73	112.01	121.92
4	A	554	PRO	CB-CA-C	-5.73	102.11	111.56
5	B	175	ARG	NE-CZ-NH1	-5.73	115.77	121.50
5	B	233	PRO	N-CA-CB	-5.73	97.03	103.44
13	L	69	ALA	O-C-N	5.73	129.71	122.84
4	A	278	THR	CA-CB-CG2	5.73	120.23	110.50
4	A	1030	ARG	O-C-N	5.72	128.21	122.08
4	A	1424	VAL	CB-CA-C	-5.72	104.37	111.70
5	B	637	LEU	CD1-CG-CD2	-5.72	98.21	110.80
7	E	170	LEU	O-C-N	5.72	129.24	121.74
4	A	32	VAL	N-CA-CB	-5.72	101.79	111.23
4	A	526	ASP	CA-CB-CG	5.72	118.32	112.60
4	A	1209	MET	CA-C-O	5.72	128.69	120.51
5	B	1160	VAL	O-C-N	5.72	129.39	123.04
5	B	590	HIS	CA-C-N	-5.72	112.69	123.27
5	B	590	HIS	C-N-CA	-5.72	112.69	123.27
7	E	121	MET	CG-SD-CE	5.72	113.48	100.90
5	B	738	PHE	N-CA-CB	-5.72	100.83	110.49
5	B	773	MET	CB-CA-C	5.72	121.00	110.88
6	C	66	ARG	CB-CG-CD	5.72	124.45	111.30
5	B	820	GLY	CA-C-N	5.72	132.41	122.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	820	GLY	C-N-CA	5.72	132.41	122.81
7	E	169	ARG	CB-CG-CD	5.72	124.45	111.30
9	H	123	MET	CA-C-N	5.72	131.60	123.14
9	H	123	MET	C-N-CA	5.72	131.60	123.14
13	L	49	LYS	O-C-N	5.72	129.71	122.28
4	A	415	LEU	N-CA-C	5.71	122.97	110.80
4	A	934	LYS	CG-CD-CE	5.71	124.44	111.30
4	A	1229	SER	N-CA-C	-5.71	102.06	110.52
5	B	873	THR	CA-C-N	-5.71	113.33	121.50
5	B	873	THR	C-N-CA	-5.71	113.33	121.50
6	C	215	GLU	CA-C-N	5.71	126.43	120.03
6	C	215	GLU	C-N-CA	5.71	126.43	120.03
7	E	25	ASP	CA-C-O	-5.71	114.36	120.42
7	E	133	GLU	N-CA-CB	-5.71	100.83	110.49
13	L	42	ARG	CG-CD-NE	5.71	124.57	112.00
4	A	487	MET	N-CA-C	5.71	117.96	108.99
4	A	536	LEU	CB-CA-C	-5.71	99.05	110.42
5	B	284	ILE	N-CA-C	5.71	121.22	109.34
5	B	760	ASP	CA-CB-CG	-5.71	106.89	112.60
11	J	42	LYS	CG-CD-CE	5.71	124.44	111.30
4	A	1398	MET	N-CA-CB	5.71	120.14	110.49
5	B	1060	ARG	CB-CA-C	-5.71	99.05	110.42
6	C	125	MET	N-CA-CB	5.71	121.15	112.47
4	A	143	LYS	CB-CA-C	5.71	118.98	109.56
4	A	1414	ALA	CA-C-O	-5.71	114.53	120.92
8	F	146	TRP	CA-C-O	5.71	127.17	120.20
4	A	360	GLU	CB-CA-C	-5.71	99.85	109.50
4	A	1102	LYS	CD-CE-NZ	5.71	130.17	111.90
11	J	21	TYR	CA-C-N	-5.71	109.88	121.18
11	J	21	TYR	C-N-CA	-5.71	109.88	121.18
4	A	1163	ILE	CB-CA-C	-5.71	104.19	110.52
4	A	1266	THR	CA-C-N	-5.71	112.86	120.79
4	A	1266	THR	C-N-CA	-5.71	112.86	120.79
5	B	851	PHE	CA-C-N	-5.71	112.88	122.92
5	B	851	PHE	C-N-CA	-5.71	112.88	122.92
5	B	1094	ARG	CD-NE-CZ	-5.71	116.41	124.40
6	C	74	SER	CA-C-N	-5.71	112.87	120.63
6	C	74	SER	C-N-CA	-5.71	112.87	120.63
10	I	6	PHE	CB-CA-C	-5.71	99.44	109.71
12	K	27	ALA	N-CA-C	-5.71	97.20	109.81
9	H	135	LEU	CA-CB-CG	5.71	136.27	116.30
10	I	14	LEU	CA-C-O	5.71	126.86	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	318	SER	N-CA-CB	5.70	120.13	110.49
4	A	978	PRO	CA-C-N	-5.70	110.64	121.54
4	A	978	PRO	C-N-CA	-5.70	110.64	121.54
5	B	858	SER	CA-CB-OG	-5.70	99.69	111.10
4	A	1243	VAL	CA-C-O	5.70	130.49	120.80
5	B	698	GLU	CA-C-O	5.70	126.53	119.97
4	A	1212	VAL	CA-C-O	5.70	127.91	120.78
4	A	1281	ARG	O-C-N	5.70	130.17	122.59
5	B	345	LYS	CG-CD-CE	5.70	124.41	111.30
5	B	481	GLN	CA-C-O	-5.70	115.34	121.38
6	C	60	ASP	N-CA-CB	-5.70	100.86	110.49
7	E	203	GLU	CB-CA-C	-5.70	99.08	110.42
13	L	41	SER	N-CA-CB	-5.70	101.13	110.42
4	A	74	MET	N-CA-CB	-5.70	100.86	110.49
5	B	425	THR	N-CA-C	5.70	118.26	111.71
5	B	514	LEU	N-CA-C	-5.70	101.97	110.23
5	B	1167	GLY	CA-C-N	-5.70	112.89	122.29
5	B	1167	GLY	C-N-CA	-5.70	112.89	122.29
7	E	141	VAL	CB-CA-C	-5.70	103.03	112.26
9	H	24	CYS	CA-C-O	5.70	127.15	120.20
10	I	53	GLY	CA-C-N	5.70	132.42	121.54
10	I	53	GLY	C-N-CA	5.70	132.42	121.54
5	B	865	LYS	CA-C-O	-5.70	114.16	119.34
4	A	452	LYS	N-CA-C	-5.70	104.99	111.14
4	A	1297	GLU	CB-CA-C	-5.70	101.30	109.84
5	B	95	ILE	CA-CB-CG1	-5.70	100.72	110.40
12	K	20	LYS	CB-CG-CD	5.70	124.40	111.30
4	A	576	GLN	O-C-N	-5.69	115.31	122.20
5	B	327	ARG	N-CA-CB	-5.69	100.87	110.49
8	F	79	ARG	CA-CB-CG	5.69	125.49	114.10
4	A	258	GLY	CA-C-O	-5.69	115.63	121.61
4	A	1311	VAL	CA-CB-CG2	-5.69	100.72	110.40
4	A	581	ALA	O-C-N	5.69	129.27	122.27
4	A	896	ARG	CA-C-N	-5.69	113.62	122.67
4	A	896	ARG	C-N-CA	-5.69	113.62	122.67
5	B	206	ASN	CB-CA-C	-5.69	102.43	111.48
5	B	1180	PHE	CB-CA-C	5.69	121.74	110.42
4	A	565	ILE	CA-C-O	-5.69	114.26	121.48
4	A	1268	LEU	CA-C-N	5.69	131.64	122.14
4	A	1268	LEU	C-N-CA	5.69	131.64	122.14
5	B	203	PHE	CA-CB-CG	-5.69	108.11	113.80
6	C	148	ARG	CA-CB-CG	-5.69	102.72	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	H	91	ASP	CA-C-O	5.69	128.64	120.51
12	K	38	GLU	CA-C-O	5.69	127.71	121.40
4	A	114	LEU	CA-C-N	-5.69	110.68	121.54
4	A	114	LEU	C-N-CA	-5.69	110.68	121.54
5	B	214	ALA	CB-CA-C	-5.69	99.11	110.42
5	B	860	MET	CG-SD-CE	5.69	113.41	100.90
5	B	951	GLN	CA-C-N	-5.69	114.51	122.75
5	B	951	GLN	C-N-CA	-5.69	114.51	122.75
6	C	116	LYS	N-CA-C	5.69	119.73	112.34
6	C	209	TYR	OH-CZ-CE2	5.69	136.96	119.90
4	A	313	GLN	CB-CA-C	-5.68	99.11	110.42
4	A	335	ARG	NE-CZ-NH1	-5.68	115.81	121.50
6	C	7	GLN	CB-CG-CD	-5.68	102.94	112.60
6	C	260	LEU	CD1-CG-CD2	5.68	123.31	110.80
4	A	1164	PRO	CA-C-N	5.68	128.36	120.29
4	A	1164	PRO	C-N-CA	5.68	128.36	120.29
5	B	258	LEU	CA-C-O	-5.68	115.84	122.37
5	B	386	LEU	N-CA-C	-5.68	106.51	113.50
5	B	805	THR	N-CA-C	5.68	119.16	108.65
10	I	40	SER	N-CA-CB	5.68	120.48	110.37
12	K	48	ALA	CA-C-N	-5.68	111.22	120.71
12	K	48	ALA	C-N-CA	-5.68	111.22	120.71
4	A	1169	ILE	O-C-N	5.68	129.67	122.57
5	B	845	SER	CA-C-N	-5.68	112.35	120.42
5	B	845	SER	C-N-CA	-5.68	112.35	120.42
4	A	930	ASP	N-CA-C	-5.68	98.70	110.80
4	A	1064	VAL	CA-CB-CG1	-5.68	100.75	110.40
4	A	1291	VAL	CA-CB-CG2	-5.68	100.74	110.40
5	B	978	ASP	N-CA-C	5.68	118.22	110.55
7	E	81	GLU	CA-C-N	-5.68	113.53	121.99
7	E	81	GLU	C-N-CA	-5.68	113.53	121.99
12	K	77	THR	CA-C-O	5.68	127.53	121.11
4	A	276	LEU	CA-C-N	-5.68	112.67	120.28
4	A	276	LEU	C-N-CA	-5.68	112.67	120.28
4	A	883	LEU	CA-C-N	-5.68	112.44	122.26
4	A	883	LEU	C-N-CA	-5.68	112.44	122.26
9	H	97	MET	CA-C-N	-5.68	114.77	122.77
9	H	97	MET	C-N-CA	-5.68	114.77	122.77
4	A	219	PHE	CB-CA-C	-5.67	99.13	110.42
4	A	1159	ARG	CB-CG-CD	5.67	124.35	111.30
5	B	528	PRO	CA-CB-CG	-5.67	93.72	104.50
8	F	145	ASP	OD1-CG-OD2	5.67	136.52	122.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	K	65	HIS	CA-CB-CG	-5.67	108.12	113.80
4	A	1195	LEU	CB-CA-C	-5.67	100.59	109.84
5	B	196	PRO	CA-C-N	-5.67	112.11	122.38
5	B	196	PRO	C-N-CA	-5.67	112.11	122.38
5	B	663	ALA	N-CA-C	5.67	122.88	110.80
5	B	811	TYR	CA-C-N	-5.67	113.64	122.37
5	B	811	TYR	C-N-CA	-5.67	113.64	122.37
6	C	86	CYS	CB-CA-C	-5.67	99.47	109.62
4	A	436	ILE	N-CA-CB	-5.67	104.19	110.99
4	A	676	MET	N-CA-C	-5.67	105.10	111.28
5	B	258	LEU	CB-CG-CD2	5.67	127.71	110.70
6	C	199	LYS	N-CA-CB	5.67	118.69	110.47
7	E	203	GLU	CA-C-N	-5.67	111.09	121.52
7	E	203	GLU	C-N-CA	-5.67	111.09	121.52
9	H	80	ARG	NE-CZ-NH1	5.67	127.17	121.50
11	J	27	GLU	CA-C-O	-5.67	112.40	120.51
5	B	685	LEU	CA-C-N	-5.67	111.69	121.66
5	B	685	LEU	C-N-CA	-5.67	111.69	121.66
5	B	912	ILE	CA-C-N	-5.67	116.86	122.36
5	B	912	ILE	C-N-CA	-5.67	116.86	122.36
7	E	168	TYR	CZ-CE2-CD2	5.67	129.80	119.60
6	C	153	LEU	CB-CG-CD2	-5.67	93.71	110.70
4	A	1146	VAL	CA-C-N	5.66	129.39	121.24
4	A	1146	VAL	C-N-CA	5.66	129.39	121.24
5	B	659	ALA	CB-CA-C	5.66	121.05	109.55
5	B	1110	PRO	CA-C-N	-5.66	113.31	122.82
5	B	1110	PRO	C-N-CA	-5.66	113.31	122.82
12	K	105	PHE	N-CA-C	-5.66	105.19	111.36
4	A	704	ALA	N-CA-C	5.66	119.32	110.32
6	C	23	SER	N-CA-CB	-5.66	102.13	110.85
9	H	135	LEU	N-CA-C	-5.66	98.74	110.80
4	A	1231	ASP	CA-CB-CG	5.66	118.26	112.60
5	B	244	LEU	CA-C-N	5.66	128.33	120.29
5	B	244	LEU	C-N-CA	5.66	128.33	120.29
5	B	725	PRO	N-CA-C	5.66	124.13	112.47
5	B	915	THR	CB-CA-C	-5.66	97.88	109.94
5	B	965	LYS	CA-C-N	-5.66	115.80	122.93
5	B	965	LYS	C-N-CA	-5.66	115.80	122.93
7	E	36	GLU	CA-C-N	5.66	135.61	121.80
7	E	36	GLU	C-N-CA	5.66	135.61	121.80
5	B	1220	ARG	O-C-N	5.66	130.12	122.59
4	A	541	ILE	CB-CA-C	-5.66	102.43	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	243	ALA	CA-C-N	5.66	129.39	121.24
5	B	243	ALA	C-N-CA	5.66	129.39	121.24
8	F	79	ARG	N-CA-CB	-5.66	100.89	111.13
4	A	403	LYS	N-CA-C	-5.66	100.94	108.74
4	A	781	ASP	CB-CA-C	5.66	120.70	111.26
5	B	259	TYR	N-CA-CB	5.66	118.35	110.26
10	I	46	HIS	N-CA-CB	5.66	122.97	111.21
4	A	599	SER	N-CA-C	5.65	122.31	109.81
4	A	1359	ASP	CA-CB-CG	5.65	118.25	112.60
8	F	86	THR	N-CA-C	-5.65	101.33	110.32
4	A	834	THR	N-CA-C	5.65	122.84	110.80
5	B	62	ILE	CA-CB-CG2	5.65	120.11	110.50
5	B	365	THR	OG1-CB-CG2	5.65	120.61	109.30
5	B	963	PHE	CA-C-N	-5.65	113.38	122.25
5	B	963	PHE	C-N-CA	-5.65	113.38	122.25
6	C	234	SER	CA-C-N	-5.65	110.57	120.29
6	C	234	SER	C-N-CA	-5.65	110.57	120.29
5	B	769	TYR	N-CA-C	-5.65	103.90	112.04
7	E	142	VAL	CA-C-N	-5.65	114.22	122.19
7	E	142	VAL	C-N-CA	-5.65	114.22	122.19
7	E	175	LEU	CA-C-O	5.65	126.90	120.97
10	I	32	CYS	CB-CA-C	5.65	124.75	114.52
4	A	4	GLN	N-CA-C	-5.65	101.56	109.69
4	A	220	THR	CA-CB-CG2	5.65	120.10	110.50
4	A	650	GLN	CA-C-N	-5.65	110.75	121.54
4	A	650	GLN	C-N-CA	-5.65	110.75	121.54
5	B	1092	TYR	O-C-N	-5.65	115.81	123.10
4	A	880	LYS	CB-CG-CD	5.65	124.29	111.30
4	A	1166	ASP	N-CA-C	-5.65	106.98	112.97
5	B	690	VAL	N-CA-C	-5.65	97.59	109.34
7	E	49	SER	CA-CB-OG	5.65	122.40	111.10
5	B	958	GLN	CB-CA-C	5.65	121.66	110.42
4	A	457	ALA	CA-C-N	-5.64	112.14	123.09
4	A	457	ALA	C-N-CA	-5.64	112.14	123.09
5	B	105	SER	CB-CA-C	-5.64	99.19	110.42
5	B	229	ALA	CB-CA-C	-5.64	99.19	110.42
4	A	103	CYS	CA-CB-SG	-5.64	101.42	114.40
4	A	119	ASN	N-CA-C	5.64	117.89	109.59
4	A	363	GLN	CA-C-N	5.64	132.13	121.97
4	A	363	GLN	C-N-CA	5.64	132.13	121.97
4	A	880	LYS	CA-CB-CG	5.64	125.39	114.10
4	A	937	VAL	CA-CB-CG1	-5.64	100.81	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	853	SER	CA-C-O	5.64	127.98	121.32
7	E	88	VAL	N-CA-CB	-5.64	101.92	111.23
4	A	358	ASN	N-CA-C	-5.64	98.79	110.80
4	A	1036	ARG	CD-NE-CZ	5.64	132.29	124.40
5	B	904	ARG	CB-CA-C	-5.64	101.80	110.26
9	H	17	PRO	CA-CB-CG	-5.64	93.79	104.50
9	H	103	LYS	N-CA-CB	5.64	121.22	111.13
2	T	23	DC	C5'-C4'-C3'	-5.64	106.45	114.90
4	A	650	GLN	CA-CB-CG	5.64	125.37	114.10
4	A	1010	ALA	CB-CA-C	-5.64	101.56	110.86
4	A	1407	GLU	CB-CA-C	-5.64	99.52	110.46
5	B	48	LEU	CB-CA-C	-5.64	102.28	110.96
5	B	101	MET	N-CA-C	-5.64	98.79	110.80
5	B	499	ASN	CB-CA-C	5.64	122.57	110.45
5	B	600	LEU	CA-CB-CG	-5.64	96.58	116.30
10	I	37	GLU	O-C-N	-5.64	116.01	122.89
13	L	66	GLN	CA-CB-CG	5.64	125.37	114.10
4	A	480	ALA	CB-CA-C	-5.63	99.97	109.83
4	A	488	ASN	CB-CA-C	-5.63	100.50	109.80
5	B	53	GLN	CB-CG-CD	5.63	122.18	112.60
5	B	231	PRO	O-C-N	5.63	130.25	122.64
12	K	111	LEU	CB-CG-CD1	-5.63	93.80	110.70
4	A	1052	GLN	CA-CB-CG	5.63	125.37	114.10
5	B	833	TYR	CB-CA-C	-5.63	104.14	111.40
8	F	112	GLU	CA-CB-CG	5.63	125.36	114.10
10	I	81	ARG	CB-CG-CD	5.63	124.25	111.30
5	B	1128	LEU	CA-CB-CG	-5.63	96.59	116.30
9	H	133	ASN	CB-CA-C	-5.63	100.73	109.80
8	F	86	THR	N-CA-CB	5.63	119.58	110.41
4	A	269	ILE	O-C-N	-5.63	115.92	121.94
13	L	30	ILE	CB-CA-C	-5.63	102.06	111.29
4	A	506	ALA	CA-C-N	-5.62	111.72	122.13
4	A	506	ALA	C-N-CA	-5.62	111.72	122.13
4	A	957	PRO	CB-CA-C	5.62	118.32	110.95
5	B	747	MET	CG-SD-CE	-5.62	88.53	100.90
5	B	1189	ILE	CA-C-O	5.62	124.04	118.98
6	C	230	MET	CB-CG-SD	-5.62	95.83	112.70
10	I	45	ARG	N-CA-C	-5.62	100.72	109.72
4	A	359	LEU	CA-C-O	-5.62	114.53	121.11
5	B	41	LYS	CD-CE-NZ	5.62	129.89	111.90
5	B	176	SER	CB-CA-C	-5.62	99.17	111.71
7	E	175	LEU	N-CA-CB	5.62	117.87	109.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	101	LYS	O-C-N	-5.62	116.16	122.12
4	A	179	LEU	N-CA-CB	5.62	122.79	111.60
4	A	199	LEU	CA-C-N	5.62	129.09	121.05
4	A	199	LEU	C-N-CA	5.62	129.09	121.05
4	A	333	GLU	CG-CD-OE2	-5.62	105.47	118.40
4	A	1230	GLU	CB-CA-C	5.62	122.45	110.19
5	B	742	GLU	N-CA-C	5.62	118.38	110.23
7	E	46	TYR	O-C-N	5.62	130.39	122.41
4	A	550	LEU	N-CA-CB	5.62	118.36	109.82
4	A	724	GLU	N-CA-C	-5.62	104.37	111.11
4	A	795	GLU	CA-CB-CG	-5.62	102.86	114.10
4	A	807	GLY	CA-C-N	-5.62	110.74	122.03
4	A	807	GLY	C-N-CA	-5.62	110.74	122.03
5	B	617	ARG	O-C-N	5.62	129.79	123.27
10	I	64	SER	CA-C-N	5.62	131.92	121.69
10	I	64	SER	C-N-CA	5.62	131.92	121.69
4	A	124	GLN	O-C-N	-5.62	115.12	122.59
5	B	171	PRO	CB-CA-C	5.62	120.83	111.56
4	A	828	ALA	CA-C-O	5.62	127.88	119.23
5	B	566	LEU	CB-CG-CD2	-5.62	93.85	110.70
5	B	570	VAL	CA-CB-CG1	-5.62	100.86	110.40
5	B	1215	ARG	CA-C-N	-5.62	115.30	122.77
5	B	1215	ARG	C-N-CA	-5.62	115.30	122.77
5	B	1219	ASP	CB-CA-C	5.62	118.91	109.48
4	A	931	GLU	CA-C-N	5.61	132.26	121.54
4	A	931	GLU	C-N-CA	5.61	132.26	121.54
4	A	1357	ALA	N-CA-CB	-5.61	101.00	110.49
5	B	379	GLY	N-CA-C	-5.61	99.88	113.18
5	B	540	SER	N-CA-CB	-5.61	100.94	109.92
7	E	149	LEU	CB-CG-CD2	5.61	127.54	110.70
9	H	129	TYR	O-C-N	5.61	129.62	122.10
9	H	139	ASN	O-C-N	5.61	130.06	122.59
4	A	781	ASP	CB-CG-OD1	5.61	131.31	118.40
5	B	493	SER	N-CA-C	5.61	122.75	110.80
7	E	115	ASN	CA-C-N	-5.61	111.87	121.97
7	E	115	ASN	C-N-CA	-5.61	111.87	121.97
4	A	139	TRP	CA-C-N	-5.61	110.82	121.54
4	A	139	TRP	C-N-CA	-5.61	110.82	121.54
4	A	590	ARG	N-CA-CB	5.61	119.97	110.49
5	B	698	GLU	CB-CA-C	5.61	121.44	110.67
11	J	16	ASP	N-CA-CB	-5.61	101.94	110.92
4	A	496	GLU	CB-CG-CD	5.61	122.14	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	668	ASP	O-C-N	-5.61	115.13	122.59
5	B	870	ILE	O-C-N	5.61	129.58	122.57
4	A	537	ARG	N-CA-C	5.61	122.74	110.80
4	A	634	THR	CB-CA-C	-5.61	99.90	110.67
4	A	1391	ARG	CA-CB-CG	5.61	125.32	114.10
5	B	1210	MET	CG-SD-CE	-5.61	88.56	100.90
13	L	59	ALA	O-C-N	5.61	130.05	122.59
4	A	75	ASN	CA-C-O	5.61	128.53	120.51
4	A	98	LYS	O-C-N	-5.61	115.14	122.59
5	B	170	LEU	N-CA-CB	-5.61	103.75	111.77
5	B	209	GLU	N-CA-CB	-5.61	100.65	109.51
5	B	1185	CYS	CB-CA-C	5.61	121.58	110.42
4	A	731	ARG	CA-C-N	-5.60	111.63	120.60
4	A	731	ARG	C-N-CA	-5.60	111.63	120.60
5	B	208	SER	CA-CB-OG	5.60	122.31	111.10
10	I	117	LYS	O-C-N	-5.60	116.40	123.01
4	A	991	LYS	CA-CB-CG	5.60	125.30	114.10
4	A	1195	LEU	O-C-N	5.60	129.60	123.04
5	B	837	ASP	CB-CA-C	-5.60	103.93	112.11
9	H	93	TYR	CA-C-O	-5.60	114.64	121.36
4	A	829	VAL	CA-C-O	-5.60	115.35	120.73
4	A	961	ARG	CB-CA-C	-5.60	97.63	110.18
6	C	129	ILE	CG1-CB-CG2	-5.60	93.90	110.70
4	A	78	PRO	CA-C-O	-5.60	114.65	121.03
4	A	118	HIS	CA-C-N	-5.60	113.18	121.24
4	A	118	HIS	C-N-CA	-5.60	113.18	121.24
4	A	1119	TYR	CB-CA-C	-5.60	97.68	109.38
5	B	270	LYS	CD-CE-NZ	5.60	129.82	111.90
5	B	271	ALA	N-CA-C	5.60	115.41	108.19
5	B	622	LYS	N-CA-C	5.60	119.15	111.54
6	C	151	GLN	N-CA-CB	-5.60	101.67	110.69
9	H	79	TRP	N-CA-CB	-5.60	101.31	110.21
9	H	139	ASN	CA-CB-CG	5.60	118.20	112.60
10	I	52	ILE	N-CA-CB	5.60	120.47	111.23
11	J	5	VAL	CG1-CB-CG2	5.60	123.12	110.80
5	B	566	LEU	O-C-N	5.60	129.86	122.30
5	B	766	ARG	N-CA-C	-5.60	105.10	111.14
5	B	1202	LEU	CA-CB-CG	-5.60	96.71	116.30
4	A	515	GLN	CA-C-N	-5.60	113.67	122.79
4	A	515	GLN	C-N-CA	-5.60	113.67	122.79
4	A	39	GLU	N-CA-C	-5.59	101.63	109.69
4	A	1171	GLN	CB-CG-CD	5.59	122.11	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	108	VAL	CA-CB-CG1	5.59	119.91	110.40
5	B	623	GLU	CG-CD-OE2	-5.59	105.53	118.40
5	B	816	GLU	O-C-N	5.59	129.86	122.36
7	E	57	MET	CB-CA-C	-5.59	99.29	110.42
7	E	182	ASP	CA-C-O	5.59	124.67	119.24
4	A	621	THR	CA-CB-CG2	-5.59	101.00	110.50
4	A	907	THR	O-C-N	5.59	129.47	122.43
5	B	453	ILE	CB-CA-C	-5.59	104.82	111.81
6	C	42	PRO	CA-C-O	-5.59	114.96	121.95
4	A	383	TYR	O-C-N	5.59	128.04	122.12
5	B	104	GLU	CB-CG-CD	5.59	122.10	112.60
5	B	114	PRO	N-CD-CG	-5.59	94.81	103.20
4	A	274	ILE	CA-CB-CG2	5.59	120.00	110.50
4	A	1136	SER	CA-C-N	-5.59	112.94	122.11
4	A	1136	SER	C-N-CA	-5.59	112.94	122.11
4	A	1371	LEU	O-C-N	5.59	130.02	122.59
5	B	646	LEU	CB-CA-C	5.59	121.54	110.42
5	B	1122	ARG	CA-C-N	5.59	127.77	120.28
5	B	1122	ARG	C-N-CA	5.59	127.77	120.28
5	B	790	ASP	CA-C-O	-5.59	115.25	121.51
6	C	26	ASP	N-CA-C	5.59	118.68	110.30
12	K	23	PRO	CA-C-N	5.59	128.77	120.95
12	K	23	PRO	C-N-CA	5.59	128.77	120.95
13	L	36	SER	N-CA-C	5.59	119.34	109.96
4	A	1258	HIS	CA-C-N	-5.58	112.84	120.44
4	A	1258	HIS	C-N-CA	-5.58	112.84	120.44
4	A	336	ILE	N-CA-CB	-5.58	102.02	111.23
4	A	1170	ILE	CA-C-O	-5.58	115.95	120.70
4	A	804	TYR	O-C-N	5.58	129.65	122.39
4	A	1025	ARG	CA-CB-CG	5.58	125.27	114.10
4	A	1294	PRO	O-C-N	5.58	130.18	122.64
5	B	345	LYS	CA-CB-CG	5.58	125.26	114.10
4	A	148	CYS	CA-C-O	-5.58	115.43	122.63
4	A	1026	LEU	CB-CA-C	-5.58	99.32	110.42
12	K	11	LEU	CA-C-O	-5.58	114.19	120.32
4	A	401	GLY	CA-C-N	-5.58	113.98	122.23
4	A	401	GLY	C-N-CA	-5.58	113.98	122.23
4	A	825	ILE	CB-CA-C	-5.58	104.84	111.81
4	A	1387	HIS	CB-CA-C	5.58	121.98	112.00
5	B	987	LYS	O-C-N	-5.58	115.94	122.96
5	B	1032	SER	CA-C-N	-5.58	111.85	120.88
5	B	1032	SER	C-N-CA	-5.58	111.85	120.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	C	101	LEU	CB-CA-C	-5.58	99.89	109.65
7	E	164	LEU	CA-C-N	-5.58	110.89	121.54
7	E	164	LEU	C-N-CA	-5.58	110.89	121.54
9	H	101	ALA	N-CA-CB	5.58	120.61	111.08
13	L	31	CYS	N-CA-C	-5.58	102.50	110.59
4	A	701	LEU	CB-CG-CD1	5.57	127.42	110.70
4	A	1046	LEU	CA-C-N	-5.57	110.89	121.54
4	A	1046	LEU	C-N-CA	-5.57	110.89	121.54
4	A	1102	LYS	CB-CG-CD	5.57	124.12	111.30
5	B	384	ARG	NE-CZ-NH1	5.57	127.07	121.50
9	H	56	THR	OG1-CB-CG2	5.57	120.45	109.30
5	B	535	LEU	CB-CA-C	-5.57	100.50	110.70
4	A	1140	HIS	CA-C-N	-5.57	110.90	121.54
4	A	1140	HIS	C-N-CA	-5.57	110.90	121.54
5	B	761	HIS	CA-C-N	-5.57	112.17	121.64
5	B	761	HIS	C-N-CA	-5.57	112.17	121.64
4	A	900	ASP	CA-C-N	5.57	132.18	121.54
4	A	900	ASP	C-N-CA	5.57	132.18	121.54
5	B	883	LEU	N-CA-CB	-5.57	103.66	111.62
2	T	21	DC	O4'-C4'-C3'	-5.57	97.05	105.40
4	A	66	LYS	CD-CE-NZ	5.57	129.72	111.90
4	A	1302	PRO	O-C-N	5.57	129.95	123.21
5	B	517	THR	O-C-N	5.57	130.63	122.39
5	B	850	LEU	CB-CG-CD1	-5.57	94.00	110.70
5	B	1002	THR	OG1-CB-CG2	-5.57	98.17	109.30
7	E	207	ARG	N-CA-C	-5.57	99.23	108.75
12	K	38	GLU	CA-C-N	-5.57	111.04	121.95
12	K	38	GLU	C-N-CA	-5.57	111.04	121.95
4	A	1021	LEU	CB-CG-CD2	-5.57	94.01	110.70
4	A	1145	SER	CA-C-N	-5.57	113.74	121.53
4	A	1145	SER	C-N-CA	-5.57	113.74	121.53
4	A	1219	THR	CA-C-N	5.57	132.27	122.42
4	A	1219	THR	C-N-CA	5.57	132.27	122.42
5	B	722	ASP	N-CA-C	5.57	126.58	111.00
5	B	1036	ALA	O-C-N	-5.57	115.19	122.59
5	B	997	GLU	CA-C-O	-5.56	115.17	120.90
7	E	66	GLU	O-C-N	5.56	129.57	122.39
11	J	43	ARG	CD-NE-CZ	-5.56	116.61	124.40
4	A	507	VAL	CA-C-N	-5.56	112.79	118.85
4	A	507	VAL	C-N-CA	-5.56	112.79	118.85
4	A	1385	THR	N-CA-C	5.56	118.32	110.14
5	B	560	GLU	CA-CB-CG	5.56	125.23	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	725	PRO	CA-C-N	-5.56	112.99	122.11
5	B	725	PRO	C-N-CA	-5.56	112.99	122.11
6	C	19	ASP	CB-CA-C	5.56	119.70	110.74
6	C	166	GLU	CA-C-O	5.56	125.53	119.24
4	A	1295	THR	N-CA-C	5.56	119.32	112.54
4	A	706	HIS	CB-CA-C	5.56	121.48	110.42
6	C	75	MET	CG-SD-CE	5.56	113.13	100.90
10	I	25	LEU	CB-CG-CD2	-5.56	94.02	110.70
12	K	85	ASP	N-CA-CB	5.56	118.39	110.16
4	A	927	VAL	CA-C-O	-5.56	115.34	121.29
4	A	1318	THR	N-CA-C	5.56	119.81	113.19
4	A	1359	ASP	N-CA-C	5.56	121.04	113.37
5	B	22	SER	O-C-N	5.56	129.98	122.59
5	B	171	PRO	CA-C-N	-5.56	116.30	123.19
5	B	171	PRO	C-N-CA	-5.56	116.30	123.19
6	C	126	GLY	N-CA-C	5.56	123.76	113.76
6	C	153	LEU	CB-CA-C	-5.56	100.58	109.75
8	F	100	GLN	N-CA-CB	5.56	118.89	110.28
5	B	1094	ARG	NE-CZ-NH2	5.56	124.20	119.20
6	C	78	GLU	N-CA-CB	-5.56	101.42	110.42
2	T	23	DC	C2'-C3'-O3'	-5.55	103.17	111.50
4	A	1070	GLN	CA-C-N	-5.55	110.18	121.18
4	A	1070	GLN	C-N-CA	-5.55	110.18	121.18
4	A	1196	GLU	CA-CB-CG	5.55	125.21	114.10
5	B	798	TYR	CA-CB-CG	5.55	123.90	113.90
6	C	181	ASP	CA-C-O	5.55	127.77	120.16
4	A	132	LYS	CD-CE-NZ	5.55	129.66	111.90
4	A	1320	PRO	CB-CG-CD	-5.55	88.33	106.10
5	B	574	SER	CA-C-O	-5.55	112.55	120.16
5	B	739	THR	OG1-CB-CG2	-5.55	98.19	109.30
6	C	149	LYS	CB-CG-CD	5.55	124.07	111.30
4	A	33	ALA	N-CA-CB	5.55	119.87	110.49
4	A	362	ASP	CA-C-O	5.55	128.05	121.17
4	A	1163	ILE	N-CA-CB	-5.55	103.98	111.86
5	B	328	GLU	CB-CG-CD	5.55	122.04	112.60
5	B	1019	SER	N-CA-C	5.55	119.89	113.18
12	K	104	ASN	CA-C-N	-5.55	112.41	120.29
12	K	104	ASN	C-N-CA	-5.55	112.41	120.29
4	A	234	MET	CG-SD-CE	-5.55	88.69	100.90
4	A	907	THR	N-CA-CB	5.55	119.44	110.51
4	A	522	GLY	N-CA-C	-5.55	100.04	113.18
4	A	1441	PHE	N-CA-C	-5.55	101.79	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	50	SER	N-CA-C	5.55	117.77	111.11
6	C	19	ASP	CA-C-O	5.55	126.22	120.40
4	A	303	TYR	CA-C-N	5.54	132.02	122.09
4	A	303	TYR	C-N-CA	5.54	132.02	122.09
4	A	734	GLU	CG-CD-OE2	-5.54	105.65	118.40
5	B	127	GLY	N-CA-C	5.54	121.17	111.25
6	C	80	LEU	CA-C-N	-5.54	113.12	123.05
6	C	80	LEU	C-N-CA	-5.54	113.12	123.05
5	B	658	ILE	CA-CB-CG1	-5.54	100.98	110.40
4	A	1238	ILE	N-CA-CB	-5.54	101.75	111.39
5	B	164	LYS	CG-CD-CE	5.54	124.05	111.30
5	B	602	THR	CA-CB-OG1	5.54	117.91	109.60
5	B	876	LYS	CG-CD-CE	-5.54	98.55	111.30
5	B	1187	ASN	O-C-N	5.54	129.50	123.13
7	E	140	LEU	CD1-CG-CD2	-5.54	98.61	110.80
12	K	81	TYR	CB-CA-C	-5.54	99.39	110.42
4	A	559	VAL	N-CA-CB	-5.54	105.92	112.40
4	A	599	SER	CB-CA-C	-5.54	99.26	110.17
5	B	632	ARG	O-C-N	-5.54	116.71	123.19
5	B	739	THR	CA-CB-CG2	-5.54	101.08	110.50
7	E	3	GLN	O-C-N	5.54	129.96	122.59
1	R	5	A	OP2-P-O3'	5.54	124.61	108.00
4	A	1440	ALA	CA-C-N	-5.54	112.84	122.64
4	A	1440	ALA	C-N-CA	-5.54	112.84	122.64
4	A	173	THR	N-CA-CB	5.54	118.89	109.87
4	A	613	ILE	N-CA-C	-5.54	107.47	112.12
4	A	842	VAL	CB-CA-C	-5.54	94.94	111.05
4	A	899	VAL	CB-CA-C	5.54	120.37	111.29
4	A	1223	ASP	CA-CB-CG	5.54	118.14	112.60
4	A	1418	LEU	CB-CA-C	5.54	118.67	110.14
5	B	558	LEU	N-CA-C	-5.54	104.94	110.97
8	F	75	PRO	CB-CG-CD	-5.54	88.39	106.10
4	A	1273	LEU	CB-CG-CD1	-5.53	94.10	110.70
4	A	574	GLY	O-C-N	5.53	129.89	122.70
5	B	414	ALA	CA-C-N	-5.53	111.25	122.31
5	B	414	ALA	C-N-CA	-5.53	111.25	122.31
5	B	661	LEU	CA-CB-CG	5.53	135.66	116.30
4	A	880	LYS	CA-C-O	-5.53	112.60	120.51
7	E	141	VAL	CG1-CB-CG2	5.53	122.97	110.80
4	A	643	ALA	CA-C-O	5.53	128.42	120.51
4	A	98	LYS	N-CA-CB	5.53	119.83	110.49
4	A	1311	VAL	CA-CB-CG1	5.53	119.80	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	132	VAL	N-CA-C	5.53	120.84	109.34
6	C	40	GLU	N-CA-CB	-5.53	100.07	111.07
7	E	152	LYS	CG-CD-CE	5.53	124.01	111.30
10	I	66	PRO	N-CD-CG	-5.53	94.91	103.20
5	B	764	SER	CA-C-N	-5.53	114.07	120.04
5	B	764	SER	C-N-CA	-5.53	114.07	120.04
4	A	405	VAL	CA-C-N	5.52	130.62	122.94
4	A	405	VAL	C-N-CA	5.52	130.62	122.94
4	A	745	GLN	CA-CB-CG	5.52	125.15	114.10
5	B	464	GLY	CA-C-N	-5.52	110.99	121.54
5	B	464	GLY	C-N-CA	-5.52	110.99	121.54
5	B	902	GLY	N-CA-C	-5.52	106.95	115.73
4	A	66	LYS	N-CA-C	5.52	122.56	110.80
4	A	836	TYR	CE1-CZ-CE2	-5.52	109.26	120.30
4	A	711	ARG	CB-CA-C	5.52	119.34	109.29
4	A	903	ASN	CA-CB-CG	5.52	118.12	112.60
12	K	22	ASP	O-C-N	5.52	125.11	121.14
4	A	784	LEU	CD1-CG-CD2	-5.52	98.66	110.80
5	B	1022	THR	N-CA-C	5.52	118.35	110.68
9	H	57	VAL	N-CA-C	5.52	120.82	109.34
4	A	791	ASP	CA-C-N	-5.52	113.94	122.49
4	A	791	ASP	C-N-CA	-5.52	113.94	122.49
4	A	1030	ARG	NE-CZ-NH2	-5.52	114.23	119.20
7	E	139	ALA	N-CA-C	5.52	119.86	113.18
11	J	43	ARG	CA-C-N	-5.52	110.91	121.94
11	J	43	ARG	C-N-CA	-5.52	110.91	121.94
4	A	936	LEU	N-CA-C	-5.52	105.65	112.38
4	A	1121	GLU	N-CA-C	-5.52	102.64	109.64
4	A	1140	HIS	CB-CA-C	5.52	121.40	110.42
4	A	1301	GLU	CB-CG-CD	5.52	121.98	112.60
5	B	703	ILE	CA-C-N	-5.52	112.70	122.74
5	B	703	ILE	C-N-CA	-5.52	112.70	122.74
2	T	19	DT	C5'-C4'-O4'	5.51	117.67	109.40
4	A	135	PHE	CB-CA-C	5.51	120.59	110.11
5	B	527	THR	CA-C-O	5.51	124.87	120.13
4	A	687	LYS	O-C-N	5.51	129.92	122.59
4	A	873	MET	CA-C-N	-5.51	112.88	120.71
4	A	873	MET	C-N-CA	-5.51	112.88	120.71
5	B	41	LYS	CA-CB-CG	5.51	125.13	114.10
4	A	383	TYR	CE1-CZ-OH	5.51	136.43	119.90
7	E	180	ARG	NE-CZ-NH2	5.51	124.16	119.20
12	K	92	ASN	CB-CG-ND2	-5.51	108.13	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1299	VAL	CG1-CB-CG2	5.51	122.92	110.80
5	B	132	VAL	CA-CB-CG1	5.51	119.77	110.40
5	B	987	LYS	CB-CA-C	5.51	118.52	110.26
5	B	1207	LEU	O-C-N	5.51	127.82	122.09
4	A	123	ARG	CA-CB-CG	5.51	125.12	114.10
4	A	321	PRO	N-CA-CB	-5.51	96.54	102.60
5	B	1113	VAL	CG1-CB-CG2	5.51	122.92	110.80
9	H	61	SER	N-CA-CB	-5.51	101.18	110.49
4	A	426	LEU	O-C-N	-5.51	116.02	122.96
4	A	629	LEU	N-CA-C	-5.51	106.26	112.87
4	A	695	LYS	CG-CD-CE	5.51	123.97	111.30
4	A	1015	VAL	O-C-N	5.51	130.86	122.16
4	A	1323	ASP	CA-C-O	5.51	122.87	119.29
5	B	471	LYS	CD-CE-NZ	5.51	129.52	111.90
5	B	638	PHE	CA-C-O	-5.51	114.72	121.88
5	B	901	PRO	N-CA-CB	-5.51	97.34	103.23
7	E	73	PRO	N-CA-C	-5.51	101.13	112.47
4	A	838	GLN	N-CA-C	-5.50	99.07	110.80
4	A	851	HIS	O-C-N	5.50	129.42	122.65
4	A	871	ASP	N-CA-CB	5.50	121.78	111.43
6	C	42	PRO	CB-CA-C	-5.50	104.02	111.12
6	C	115	SER	CA-CB-OG	5.50	122.11	111.10
7	E	202	SER	CA-CB-OG	-5.50	100.09	111.10
4	A	171	GLN	CA-CB-CG	5.50	125.11	114.10
5	B	355	ILE	N-CA-CB	-5.50	102.15	111.23
4	A	1173	HIS	N-CA-C	5.50	119.28	107.67
5	B	412	LEU	N-CA-C	5.50	120.00	113.12
9	H	121	LEU	CA-C-N	-5.50	113.29	122.64
9	H	121	LEU	C-N-CA	-5.50	113.29	122.64
4	A	436	ILE	N-CA-C	-5.50	100.50	108.36
4	A	681	GLU	CG-CD-OE1	5.50	131.05	118.40
5	B	260	GLY	CA-C-N	5.50	130.86	121.29
5	B	260	GLY	C-N-CA	5.50	130.86	121.29
4	A	676	MET	CB-CA-C	5.50	119.92	110.79
4	A	843	LYS	N-CA-CB	-5.50	102.31	110.61
12	K	31	VAL	CG1-CB-CG2	5.50	122.90	110.80
12	K	87	LEU	CB-CA-C	-5.50	102.21	110.90
2	T	19	DT	P-O5'-C5'	-5.50	111.75	120.00
4	A	4	GLN	CB-CA-C	-5.50	100.12	111.22
4	A	82	GLY	CA-C-N	-5.50	111.04	121.54
4	A	82	GLY	C-N-CA	-5.50	111.04	121.54
5	B	241	ARG	NH1-CZ-NH2	-5.50	112.15	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	420	ARG	N-CA-CB	-5.49	102.66	110.79
4	A	883	LEU	CA-CB-CG	-5.49	97.07	116.30
5	B	455	SER	CB-CA-C	-5.49	101.43	110.72
6	C	163	ILE	CA-C-N	-5.49	111.05	121.54
6	C	163	ILE	C-N-CA	-5.49	111.05	121.54
7	E	183	PRO	CB-CA-C	-5.49	102.50	111.56
4	A	114	LEU	CD1-CG-CD2	5.49	122.88	110.80
2	T	13	DA	P-O3'-C3'	-5.49	111.97	120.20
10	I	42	LEU	CA-C-O	5.49	127.37	121.44
4	A	991	LYS	CB-CG-CD	5.49	123.92	111.30
5	B	193	LYS	N-CA-CB	-5.49	103.47	112.25
5	B	472	ALA	CA-C-N	5.49	132.03	121.54
5	B	472	ALA	C-N-CA	5.49	132.03	121.54
5	B	1159	ARG	CB-CG-CD	5.49	123.92	111.30
6	C	91	HIS	CA-CB-CG	5.49	119.29	113.80
6	C	99	LEU	CB-CG-CD1	-5.49	94.23	110.70
5	B	987	LYS	CA-C-N	-5.49	117.21	121.82
5	B	987	LYS	C-N-CA	-5.49	117.21	121.82
4	A	315	LEU	CA-C-O	-5.49	112.67	120.51
4	A	1148	ILE	O-C-N	5.49	129.43	122.57
4	A	1297	GLU	CA-C-N	-5.49	113.08	120.87
4	A	1297	GLU	C-N-CA	-5.49	113.08	120.87
5	B	322	PHE	O-C-N	5.49	129.89	122.59
5	B	419	THR	CA-CB-OG1	-5.49	101.37	109.60
5	B	473	MET	CA-C-N	5.49	130.74	121.14
5	B	473	MET	C-N-CA	5.49	130.74	121.14
5	B	870	ILE	CA-C-N	5.49	132.52	122.92
5	B	870	ILE	C-N-CA	5.49	132.52	122.92
9	H	87	ARG	O-C-N	5.49	129.02	123.26
5	B	258	LEU	CB-CG-CD1	-5.48	94.25	110.70
5	B	290	GLY	N-CA-C	-5.48	106.94	114.67
5	B	784	ASN	CB-CA-C	-5.48	99.51	110.42
8	F	133	VAL	N-CA-C	5.48	115.95	107.78
11	J	9	SER	N-CA-C	5.48	117.97	111.33
4	A	110	CYS	N-CA-C	-5.48	107.14	113.88
5	B	314	LEU	N-CA-CB	5.48	118.99	110.44
5	B	847	ASP	CA-C-N	-5.48	111.07	121.54
5	B	847	ASP	C-N-CA	-5.48	111.07	121.54
12	K	70	ARG	CD-NE-CZ	-5.48	116.73	124.40
4	A	233	TRP	N-CA-C	-5.48	104.72	111.40
9	H	132	LEU	CB-CG-CD1	5.48	127.14	110.70
2	T	24	DT	N1-C1'-C2'	-5.48	105.28	113.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1067	LEU	CA-C-O	5.48	126.12	119.38
5	B	202	TYR	CA-C-N	-5.48	111.67	122.02
5	B	202	TYR	C-N-CA	-5.48	111.67	122.02
4	A	877	HIS	CB-CA-C	5.48	120.28	110.81
4	A	47	ARG	NH1-CZ-NH2	-5.47	112.18	119.30
4	A	302	THR	CA-CB-OG1	-5.47	101.39	109.60
4	A	509	LEU	CB-CG-CD1	5.47	127.13	110.70
5	B	476	ARG	N-CA-CB	5.47	119.74	110.49
5	B	649	LYS	CA-CB-CG	5.47	125.05	114.10
4	A	563	PRO	CA-N-CD	-5.47	104.34	112.00
5	B	265	SER	CA-C-O	-5.47	112.68	120.51
5	B	629	ASP	CA-CB-CG	5.47	118.07	112.60
5	B	1147	LEU	CA-CB-CG	-5.47	97.15	116.30
6	C	187	LYS	CG-CD-CE	5.47	123.88	111.30
11	J	49	MET	CB-CG-SD	5.47	129.11	112.70
5	B	936	ASP	CA-C-N	-5.47	111.86	121.87
5	B	936	ASP	C-N-CA	-5.47	111.86	121.87
4	A	346	ASP	CA-C-N	-5.47	114.74	122.34
4	A	346	ASP	C-N-CA	-5.47	114.74	122.34
5	B	678	GLU	CG-CD-OE1	-5.47	105.83	118.40
7	E	72	PHE	CB-CA-C	-5.47	99.40	110.17
4	A	241	VAL	CA-C-O	5.47	127.28	119.95
5	B	948	ILE	N-CA-C	5.47	120.71	109.34
5	B	1172	ILE	N-CA-C	5.47	120.71	109.34
4	A	1117	THR	CB-CA-C	5.46	118.39	110.79
5	B	229	ALA	CA-C-N	-5.46	108.47	121.80
5	B	229	ALA	C-N-CA	-5.46	108.47	121.80
10	I	103	CYS	CA-C-O	-5.46	115.76	121.99
12	K	32	VAL	N-CA-C	5.46	120.70	109.34
4	A	222	LEU	CA-C-N	-5.46	110.70	121.41
4	A	222	LEU	C-N-CA	-5.46	110.70	121.41
4	A	58	LEU	CD1-CG-CD2	5.46	122.81	110.80
4	A	946	VAL	CA-C-N	-5.46	114.71	122.41
4	A	946	VAL	C-N-CA	-5.46	114.71	122.41
4	A	1132	LYS	CA-C-N	-5.46	111.11	121.54
4	A	1132	LYS	C-N-CA	-5.46	111.11	121.54
5	B	227	LYS	CA-CB-CG	5.46	125.02	114.10
5	B	850	LEU	CA-CB-CG	5.46	135.41	116.30
7	E	34	GLU	CG-CD-OE2	-5.46	105.84	118.40
4	A	677	ARG	NE-CZ-NH2	5.46	124.11	119.20
4	A	722	LEU	N-CA-C	-5.46	106.98	113.97
4	A	1430	LEU	O-C-N	5.46	129.17	122.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1424	VAL	O-C-N	5.46	127.86	121.96
5	B	275	TYR	CE1-CZ-OH	5.46	136.28	119.90
5	B	941	LEU	CA-C-O	-5.46	115.05	121.16
6	C	34	ARG	O-C-N	-5.46	115.33	122.59
7	E	49	SER	CA-C-O	-5.46	114.73	120.63
9	H	141	TYR	CA-C-N	-5.46	109.64	121.87
9	H	141	TYR	C-N-CA	-5.46	109.64	121.87
4	A	555	ASP	CB-CA-C	5.46	119.85	110.79
4	A	1435	PRO	CA-C-N	5.46	130.78	122.92
4	A	1435	PRO	C-N-CA	5.46	130.78	122.92
5	B	833	TYR	CA-C-N	-5.46	111.12	121.54
5	B	833	TYR	C-N-CA	-5.46	111.12	121.54
4	A	941	LYS	CB-CG-CD	5.46	123.85	111.30
5	B	877	PRO	CA-C-O	-5.46	114.62	122.31
7	E	47	CYS	O-C-N	5.46	129.73	123.02
7	E	185	ALA	CB-CA-C	-5.46	99.56	110.42
1	R	8	G	C4'-C3'-O3'	5.45	121.18	113.00
4	A	175	ARG	CA-CB-CG	5.45	125.01	114.10
4	A	307	ASP	N-CA-C	5.45	120.04	113.17
4	A	901	LEU	CB-CG-CD1	5.45	127.06	110.70
6	C	5	GLY	CA-C-O	5.45	129.32	121.52
13	L	55	ILE	CA-C-N	-5.45	111.12	121.54
13	L	55	ILE	C-N-CA	-5.45	111.12	121.54
5	B	619	ILE	N-CA-CB	-5.45	100.31	110.40
5	B	766	ARG	CG-CD-NE	-5.45	100.00	112.00
6	C	264	GLN	CA-C-O	5.45	128.30	120.51
12	K	44	ASN	O-C-N	-5.45	115.99	122.20
4	A	16	GLU	N-CA-CB	5.45	120.99	111.13
7	E	192	ARG	CA-CB-CG	5.45	125.00	114.10
4	A	153	PRO	N-CA-C	5.45	123.69	112.47
4	A	326	ARG	CB-CA-C	-5.45	101.88	110.86
4	A	1015	VAL	CA-CB-CG2	-5.45	101.14	110.40
5	B	807	ARG	CB-CG-CD	-5.45	98.78	111.30
8	F	80	ALA	CA-C-O	5.45	128.30	120.51
4	A	1298	TYR	CE1-CZ-OH	5.44	136.23	119.90
10	I	70	ARG	NH1-CZ-NH2	5.44	126.38	119.30
5	B	296	GLU	CG-CD-OE2	-5.44	105.88	118.40
4	A	227	VAL	CA-C-N	-5.44	112.35	122.09
4	A	227	VAL	C-N-CA	-5.44	112.35	122.09
5	B	474	SER	CA-CB-OG	5.44	121.98	111.10
5	B	1032	SER	CB-CA-C	5.44	121.02	110.46
6	C	114	TYR	CA-CB-CG	5.44	123.69	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	C	172	PRO	N-CD-CG	-5.44	95.04	103.20
9	H	123	MET	CA-C-O	-5.44	114.48	120.36
4	A	897	TYR	CA-C-O	5.44	126.37	119.95
8	F	106	PRO	N-CA-CB	-5.44	97.67	103.38
5	B	810	GLU	CB-CG-CD	5.44	121.84	112.60
5	B	1019	SER	CA-C-N	-5.44	114.12	122.60
5	B	1019	SER	C-N-CA	-5.44	114.12	122.60
10	I	5	ARG	CD-NE-CZ	5.44	132.01	124.40
12	K	24	ASP	N-CA-CB	5.44	117.95	109.85
4	A	1235	LYS	O-C-N	5.44	129.41	123.27
9	H	98	TYR	CA-C-O	-5.44	114.48	120.24
4	A	688	LYS	CA-CB-CG	-5.43	103.23	114.10
4	A	965	GLN	CB-CG-CD	-5.43	103.36	112.60
4	A	1107	VAL	CA-CB-CG2	5.43	119.64	110.40
5	B	184	ALA	N-CA-C	5.43	122.38	110.80
12	K	8	GLU	CA-CB-CG	5.43	124.97	114.10
4	A	705	LYS	CA-C-N	-5.43	111.16	121.54
4	A	705	LYS	C-N-CA	-5.43	111.16	121.54
4	A	797	LYS	N-CA-CB	-5.43	102.31	110.73
5	B	222	ILE	CB-CA-C	-5.43	104.27	110.73
6	C	98	VAL	CA-C-O	-5.43	114.72	120.48
9	H	51	ALA	O-C-N	5.43	129.82	122.59
12	K	81	TYR	N-CA-C	5.43	122.37	110.80
4	A	720	ARG	CA-C-O	-5.43	114.21	120.24
4	A	425	GLN	CA-C-N	5.43	129.06	121.24
4	A	425	GLN	C-N-CA	5.43	129.06	121.24
4	A	541	ILE	N-CA-C	-5.43	99.69	107.78
5	B	347	LYS	CA-CB-CG	5.43	124.96	114.10
5	B	875	GLU	CA-CB-CG	5.43	124.95	114.10
12	K	60	ALA	N-CA-C	5.43	116.39	108.14
4	A	788	SER	N-CA-C	5.43	122.36	110.80
5	B	1036	ALA	CA-C-N	-5.43	111.18	121.54
5	B	1036	ALA	C-N-CA	-5.43	111.18	121.54
7	E	26	ARG	CB-CA-C	-5.43	100.59	110.63
7	E	54	GLN	CA-C-N	-5.43	111.18	121.54
7	E	54	GLN	C-N-CA	-5.43	111.18	121.54
4	A	696	GLU	CA-CB-CG	5.42	124.95	114.10
4	A	718	VAL	CA-C-O	5.42	126.92	121.17
4	A	826	ASP	CB-CG-OD1	-5.42	105.92	118.40
7	E	68	SER	CA-CB-OG	5.42	121.95	111.10
7	E	103	LYS	CD-CE-NZ	-5.42	94.54	111.90
9	H	10	PHE	CA-C-N	-5.42	114.39	122.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	H	10	PHE	C-N-CA	-5.42	114.39	122.74
7	E	150	VAL	N-CA-C	5.42	113.91	107.73
5	B	746	SER	CA-CB-OG	-5.42	100.26	111.10
6	C	106	GLU	N-CA-C	5.42	117.43	108.48
6	C	169	LYS	N-CA-C	-5.42	106.62	113.18
4	A	1410	PHE	N-CA-CB	5.42	118.03	110.07
5	B	786	ASN	O-C-N	5.42	129.43	122.39
2	T	20	DC	C2'-C3'-O3'	-5.42	103.38	111.50
4	A	535	THR	O-C-N	-5.42	115.97	122.15
4	A	1080	THR	CA-C-O	-5.42	112.77	120.51
5	B	179	CYS	CA-C-N	-5.42	111.20	121.54
5	B	179	CYS	C-N-CA	-5.42	111.20	121.54
5	B	265	SER	CA-CB-OG	5.42	121.93	111.10
5	B	1134	GLU	N-CA-C	-5.42	105.54	111.82
9	H	100	THR	CB-CA-C	5.42	119.28	109.37
4	A	601	LYS	CB-CG-CD	5.42	123.75	111.30
4	A	926	GLN	CA-C-O	-5.42	113.22	119.61
5	B	24	PRO	N-CA-C	5.42	120.67	111.03
5	B	200	GLY	CA-C-N	-5.41	110.80	121.41
5	B	200	GLY	C-N-CA	-5.41	110.80	121.41
5	B	262	GLU	CB-CG-CD	5.41	121.80	112.60
5	B	388	CYS	CA-CB-SG	-5.41	101.95	114.40
5	B	449	ASN	CA-C-O	-5.41	115.19	122.44
7	E	95	THR	CA-C-O	5.41	126.18	119.79
9	H	48	PRO	CA-CB-CG	-5.41	94.22	104.50
9	H	89	LEU	CA-C-O	-5.41	112.77	120.51
5	B	766	ARG	CA-CB-CG	5.41	124.92	114.10
4	A	10	PRO	CA-C-N	-5.41	113.31	121.86
4	A	10	PRO	C-N-CA	-5.41	113.31	121.86
4	A	412	ARG	CA-C-N	-5.41	113.43	120.63
4	A	412	ARG	C-N-CA	-5.41	113.43	120.63
4	A	498	ARG	CA-CB-CG	5.41	124.92	114.10
4	A	1174	PHE	CB-CA-C	-5.41	99.66	110.42
4	A	1226	VAL	N-CA-C	5.41	120.59	109.34
4	A	1365	TYR	N-CA-C	5.41	120.30	111.37
5	B	227	LYS	N-CA-C	-5.41	101.72	110.32
5	B	239	GLU	CG-CD-OE2	-5.41	105.96	118.40
5	B	456	GLY	N-CA-C	-5.41	100.36	113.18
5	B	561	TRP	CA-CB-CG	5.41	123.88	113.60
5	B	564	GLU	CG-CD-OE2	-5.41	105.96	118.40
5	B	888	GLY	N-CA-C	5.41	126.00	113.18
5	B	417	PHE	O-C-N	5.41	128.31	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	1102	LYS	N-CA-C	5.41	120.89	113.97
5	B	1189	ILE	CA-CB-CG1	5.41	119.59	110.40
4	A	236	LEU	CA-CB-CG	-5.41	97.38	116.30
4	A	895	LYS	CA-C-O	-5.41	112.78	120.51
5	B	236	HIS	CB-CA-C	-5.41	100.73	110.03
5	B	469	GLN	N-CA-CB	5.41	119.63	110.49
12	K	19	LEU	CA-C-N	5.41	130.39	122.39
12	K	19	LEU	C-N-CA	5.41	130.39	122.39
4	A	302	THR	CB-CA-C	5.40	119.71	110.74
5	B	228	LYS	N-CA-C	-5.40	99.29	108.26
5	B	962	LYS	CA-C-N	-5.40	112.43	121.94
5	B	962	LYS	C-N-CA	-5.40	112.43	121.94
7	E	128	PRO	O-C-N	5.40	127.84	121.46
2	T	12	DC	P-O3'-C3'	5.40	128.31	120.20
5	B	211	VAL	N-CA-CB	5.40	121.21	111.21
5	B	1144	ALA	CB-CA-C	-5.40	99.67	110.42
4	A	747	VAL	N-CA-CB	-5.40	101.00	110.77
4	A	801	GLU	CB-CG-CD	5.40	121.78	112.60
4	A	969	GLN	N-CA-CB	5.40	118.85	110.80
4	A	1270	ASN	CA-C-N	-5.40	115.62	122.43
4	A	1270	ASN	C-N-CA	-5.40	115.62	122.43
5	B	496	ARG	CD-NE-CZ	-5.40	116.84	124.40
5	B	778	MET	O-C-N	5.40	130.07	123.10
5	B	874	PHE	CA-C-N	-5.40	112.81	122.32
5	B	874	PHE	C-N-CA	-5.40	112.81	122.32
5	B	1033	LYS	CB-CG-CD	-5.40	98.88	111.30
7	E	45	LYS	CD-CE-NZ	5.40	129.18	111.90
9	H	14	GLU	CG-CD-OE1	5.40	130.82	118.40
6	C	152	GLU	CB-CA-C	-5.40	98.66	109.35
4	A	1437	GLY	O-C-N	-5.40	115.68	122.70
5	B	347	LYS	CA-C-N	5.40	130.71	122.24
5	B	347	LYS	C-N-CA	5.40	130.71	122.24
5	B	896	ASP	CA-C-N	-5.40	115.18	122.63
5	B	896	ASP	C-N-CA	-5.40	115.18	122.63
7	E	22	MET	CG-SD-CE	-5.40	89.03	100.90
4	A	362	ASP	CB-CG-OD2	-5.40	105.99	118.40
5	B	221	ASN	CB-CA-C	5.40	118.97	111.63
5	B	381	MET	N-CA-CB	-5.40	102.19	110.01
5	B	664	THR	N-CA-C	-5.40	106.74	113.38
8	F	105	ALA	N-CA-CB	5.40	117.54	109.88
12	K	28	PRO	N-CA-CB	5.40	108.92	103.25
4	A	57	ARG	CG-CD-NE	5.39	123.87	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	281	PRO	CB-CA-C	5.39	118.68	110.21
5	B	478	GLY	CA-C-O	5.39	129.96	120.57
6	C	41	ILE	N-CA-C	-5.39	97.23	108.88
1	R	9	G	O5'-P-OP1	5.39	124.18	108.00
4	A	254	GLU	CA-C-O	-5.39	112.80	120.51
4	A	317	LYS	CA-CB-CG	5.39	124.89	114.10
4	A	418	SER	CA-C-N	5.39	131.84	121.54
4	A	418	SER	C-N-CA	5.39	131.84	121.54
4	A	515	GLN	N-CA-C	-5.39	105.06	111.69
5	B	530	GLY	N-CA-C	5.39	125.96	113.18
7	E	127	ILE	CA-CB-CG1	5.39	119.57	110.40
12	K	83	PRO	N-CD-CG	5.39	111.29	103.20
4	A	776	ALA	CB-CA-C	-5.39	99.69	110.42
4	A	51	GLY	CA-C-N	5.39	131.97	121.41
4	A	51	GLY	C-N-CA	5.39	131.97	121.41
4	A	263	THR	CB-CA-C	5.39	119.30	110.95
4	A	674	PRO	CB-CG-CD	-5.39	88.85	106.10
4	A	782	ARG	CG-CD-NE	5.39	123.86	112.00
4	A	1032	LEU	CA-CB-CG	-5.39	97.44	116.30
4	A	1146	VAL	CG1-CB-CG2	5.39	122.66	110.80
10	I	75	CYS	N-CA-CB	5.39	117.53	109.88
4	A	24	PRO	O-C-N	5.39	128.69	122.23
5	B	237	VAL	O-C-N	5.39	129.30	122.57
5	B	885	MET	O-C-N	-5.39	117.85	123.56
4	A	536	LEU	O-C-N	-5.39	115.43	122.59
4	A	1209	MET	O-C-N	5.39	129.75	122.59
6	C	200	GLU	CB-CG-CD	-5.39	103.44	112.60
10	I	51	ASN	CA-C-N	5.39	131.66	121.97
10	I	51	ASN	C-N-CA	5.39	131.66	121.97
10	I	45	ARG	CA-C-N	5.38	128.68	121.90
10	I	45	ARG	C-N-CA	5.38	128.68	121.90
12	K	25	THR	CA-C-N	5.38	128.90	120.82
12	K	25	THR	C-N-CA	5.38	128.90	120.82
4	A	873	MET	O-C-N	-5.38	116.94	123.29
13	L	68	GLU	O-C-N	-5.38	116.74	123.04
4	A	1237	ILE	CA-C-N	-5.38	115.63	123.06
4	A	1237	ILE	C-N-CA	-5.38	115.63	123.06
5	B	351	TYR	N-CA-C	5.38	122.26	110.80
5	B	378	LEU	CA-CB-CG	-5.38	97.47	116.30
5	B	857	ARG	CA-C-N	-5.38	113.77	122.81
5	B	857	ARG	C-N-CA	-5.38	113.77	122.81
9	H	94	ASP	O-C-N	-5.38	115.43	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	1221	SER	O-C-N	5.38	129.75	122.59
5	B	572	HIS	N-CA-C	-5.38	106.22	112.89
8	F	138	LEU	C-N-CD	5.38	147.05	125.00
12	K	11	LEU	N-CA-C	5.38	117.29	108.52
4	A	801	GLU	CA-CB-CG	-5.38	103.35	114.10
5	B	463	THR	N-CA-C	5.38	122.25	110.80
5	B	1054	GLY	O-C-N	5.38	129.69	122.70
10	I	52	ILE	CA-C-N	5.38	131.95	121.41
10	I	52	ILE	C-N-CA	5.38	131.95	121.41
5	B	389	ALA	N-CA-CB	5.38	118.41	110.56
7	E	178	ILE	CG1-CB-CG2	5.38	126.83	110.70
4	A	1296	GLY	CA-C-N	5.37	128.73	121.05
4	A	1296	GLY	C-N-CA	5.37	128.73	121.05
5	B	386	LEU	CB-CG-CD1	5.37	126.82	110.70
5	B	959	ASP	N-CA-C	5.37	122.25	110.80
4	A	630	ILE	O-C-N	5.37	129.28	122.57
4	A	1038	THR	OG1-CB-CG2	5.37	120.04	109.30
5	B	250	PHE	O-C-N	-5.37	115.86	122.68
5	B	972	LYS	CG-CD-CE	5.37	123.65	111.30
6	C	87	PHE	N-CA-CB	5.37	118.28	110.65
8	F	78	GLN	CA-CB-CG	5.37	124.84	114.10
4	A	291	GLU	N-CA-CB	5.37	117.86	110.07
4	A	420	ARG	CA-C-N	-5.37	113.91	122.29
4	A	420	ARG	C-N-CA	-5.37	113.91	122.29
4	A	1339	LEU	CA-C-N	-5.37	113.18	121.45
4	A	1339	LEU	C-N-CA	-5.37	113.18	121.45
5	B	471	LYS	CB-CG-CD	5.37	123.65	111.30
4	A	696	GLU	CG-CD-OE2	-5.37	106.05	118.40
5	B	589	VAL	N-CA-C	5.37	115.08	108.53
5	B	1101	ASP	CA-C-O	5.37	125.98	119.11
4	A	95	PHE	CA-C-N	-5.37	113.74	120.77
4	A	95	PHE	C-N-CA	-5.37	113.74	120.77
4	A	533	LYS	N-CA-C	-5.37	106.57	113.01
5	B	391	ASP	CA-C-N	-5.37	111.56	120.68
5	B	391	ASP	C-N-CA	-5.37	111.56	120.68
5	B	391	ASP	CA-CB-CG	5.37	117.97	112.60
4	A	891	ALA	CA-C-O	5.37	126.23	120.70
5	B	459	TYR	CE1-CZ-CE2	-5.37	109.57	120.30
5	B	603	LEU	CB-CG-CD2	5.37	126.80	110.70
5	B	760	ASP	CB-CG-OD1	-5.37	106.06	118.40
5	B	1016	ALA	CA-C-N	-5.37	112.20	122.13
5	B	1016	ALA	C-N-CA	-5.37	112.20	122.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	598	LEU	N-CA-C	-5.36	106.49	114.64
4	A	783	THR	CA-C-N	5.36	134.88	121.80
4	A	783	THR	C-N-CA	5.36	134.88	121.80
5	B	738	PHE	N-CA-C	5.36	122.23	110.80
7	E	210	SER	CA-C-N	-5.36	114.67	122.44
7	E	210	SER	C-N-CA	-5.36	114.67	122.44
11	J	39	LEU	CD1-CG-CD2	-5.36	99.00	110.80
4	A	24	PRO	CA-C-N	5.36	131.78	121.54
4	A	24	PRO	C-N-CA	5.36	131.78	121.54
4	A	250	ILE	CA-C-O	-5.36	114.08	120.78
4	A	380	VAL	CA-C-N	-5.36	108.72	121.80
4	A	380	VAL	C-N-CA	-5.36	108.72	121.80
5	B	205	ILE	CA-C-N	-5.36	114.25	122.61
5	B	205	ILE	C-N-CA	-5.36	114.25	122.61
7	E	6	GLU	O-C-N	5.36	128.27	122.11
7	E	134	THR	CA-C-N	-5.36	114.46	122.39
7	E	134	THR	C-N-CA	-5.36	114.46	122.39
5	B	868	MET	N-CA-CB	5.36	119.53	110.69
6	C	220	ASP	CA-C-O	5.36	126.71	120.49
8	F	88	TYR	OH-CZ-CE2	5.36	135.98	119.90
12	K	70	ARG	NE-CZ-NH2	5.36	124.02	119.20
4	A	700	ASN	CA-CB-CG	-5.36	107.24	112.60
4	A	797	LYS	CG-CD-CE	5.36	123.62	111.30
4	A	856	THR	OG1-CB-CG2	-5.36	98.58	109.30
4	A	1124	HIS	CA-C-N	5.36	131.77	121.54
4	A	1124	HIS	C-N-CA	5.36	131.77	121.54
5	B	938	SER	N-CA-CB	-5.36	101.82	110.71
5	B	1145	SER	N-CA-C	-5.36	105.55	111.71
10	I	40	SER	N-CA-C	-5.36	97.97	109.81
4	A	1382	THR	CA-CB-CG2	-5.36	101.40	110.50
5	B	488	TYR	CB-CA-C	-5.36	99.76	110.42
5	B	788	ARG	CB-CG-CD	5.36	123.62	111.30
9	H	111	LEU	CB-CG-CD2	-5.36	94.63	110.70
4	A	1368	MET	N-CA-CB	-5.35	101.44	110.49
6	C	50	GLU	CB-CG-CD	5.35	121.70	112.60
4	A	618	GLU	CA-C-N	-5.35	113.05	120.38
4	A	618	GLU	C-N-CA	-5.35	113.05	120.38
4	A	1026	LEU	CD1-CG-CD2	5.35	122.58	110.80
4	A	1107	VAL	CB-CA-C	-5.35	102.51	111.29
5	B	409	ALA	N-CA-C	5.35	117.81	111.33
5	B	971	THR	CA-C-O	-5.35	115.04	120.71
10	I	12	ASN	N-CA-CB	5.35	119.54	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	219	ALA	N-CA-CB	5.35	117.71	110.38
9	H	26	ILE	CA-C-O	5.35	126.03	120.36
4	A	1149	ALA	CA-C-O	5.35	126.81	120.66
4	A	1427	ASN	CA-C-N	-5.35	112.53	120.82
4	A	1427	ASN	C-N-CA	-5.35	112.53	120.82
5	B	31	TRP	CA-C-N	-5.35	111.43	120.58
5	B	31	TRP	C-N-CA	-5.35	111.43	120.58
5	B	654	ARG	NE-CZ-NH1	-5.35	116.15	121.50
4	A	382	PRO	CA-C-O	5.35	130.33	120.60
4	A	1176	LEU	CB-CG-CD2	5.35	126.74	110.70
5	B	640	VAL	CA-C-O	5.35	127.47	120.78
5	B	857	ARG	CA-CB-CG	5.35	124.79	114.10
4	A	1204	ASP	CA-CB-CG	5.35	117.95	112.60
5	B	210	LYS	CB-CG-CD	5.35	123.60	111.30
5	B	612	GLU	CA-C-N	-5.35	113.11	120.49
5	B	612	GLU	C-N-CA	-5.35	113.11	120.49
5	B	667	GLN	CA-C-N	5.35	131.32	121.70
5	B	667	GLN	C-N-CA	5.35	131.32	121.70
4	A	387	ARG	CG-CD-NE	5.34	123.76	112.00
4	A	474	VAL	CA-C-N	-5.34	111.33	121.54
4	A	474	VAL	C-N-CA	-5.34	111.33	121.54
4	A	1410	PHE	CA-C-O	-5.34	115.19	120.80
5	B	541	LEU	O-C-N	-5.34	116.45	122.12
5	B	1085	ILE	CA-C-N	5.34	129.47	121.72
5	B	1085	ILE	C-N-CA	5.34	129.47	121.72
4	A	768	GLN	CA-C-O	-5.34	114.97	121.28
5	B	390	LEU	CB-CG-CD1	-5.34	94.67	110.70
6	C	201	TRP	CB-CA-C	5.34	121.61	110.50
12	K	23	PRO	CB-CA-C	5.34	120.38	111.56
4	A	389	THR	CA-CB-CG2	-5.34	101.42	110.50
4	A	426	LEU	N-CA-C	5.34	117.44	109.59
4	A	830	LYS	CG-CD-CE	5.34	123.58	111.30
5	B	840	ILE	O-C-N	5.34	128.79	123.18
7	E	78	LEU	CD1-CG-CD2	-5.34	99.05	110.80
11	J	44	TYR	N-CA-CB	-5.34	101.77	110.42
4	A	483	ASP	CB-CG-OD1	5.34	130.68	118.40
4	A	556	TRP	CB-CG-CD1	-5.34	118.89	126.90
5	B	872	GLU	CG-CD-OE2	-5.34	106.12	118.40
13	L	67	PHE	O-C-N	5.34	129.89	123.16
5	B	249	ARG	CB-CG-CD	5.34	123.58	111.30
5	B	364	ILE	O-C-N	5.34	129.24	122.57
4	A	150	THR	N-CA-C	-5.34	105.58	112.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	551	TYR	OH-CZ-CE2	5.34	135.91	119.90
4	A	848	ILE	O-C-N	5.34	129.15	122.59
5	B	164	LYS	N-CA-C	5.34	125.94	111.00
5	B	664	THR	N-CA-CB	-5.34	102.58	110.53
7	E	137	GLU	CA-C-N	-5.34	111.35	121.54
7	E	137	GLU	C-N-CA	-5.34	111.35	121.54
7	E	156	LEU	CB-CG-CD1	-5.34	94.69	110.70
12	K	11	LEU	O-C-N	-5.33	116.97	123.27
4	A	39	GLU	CG-CD-OE1	5.33	130.67	118.40
4	A	1335	ILE	CB-CA-C	-5.33	104.87	111.70
4	A	1354	ASN	N-CA-C	5.33	122.16	110.80
7	E	14	ARG	NE-CZ-NH2	-5.33	114.40	119.20
7	E	164	LEU	CA-CB-CG	-5.33	97.63	116.30
7	E	190	LEU	CA-C-O	-5.33	115.34	121.47
4	A	1411	GLU	N-CA-CB	5.33	118.06	110.06
4	A	1048	ASN	CB-CA-C	5.33	121.03	110.42
4	A	1203	ASN	CA-C-O	-5.33	112.89	120.51
4	A	1280	GLU	CA-C-N	-5.33	111.36	121.54
4	A	1280	GLU	C-N-CA	-5.33	111.36	121.54
7	E	75	MET	CB-CA-C	-5.33	98.76	109.68
9	H	118	PHE	N-CA-C	-5.33	98.59	108.24
7	E	191	LYS	N-CA-CB	5.33	118.70	110.60
12	K	78	THR	CA-CB-OG1	5.33	117.59	109.60
13	L	70	ARG	N-CA-CB	-5.33	101.45	110.50
5	B	390	LEU	O-C-N	5.32	128.81	122.26
7	E	134	THR	CA-C-O	-5.32	114.58	120.38
4	A	1398	MET	CA-C-N	-5.32	113.09	120.38
4	A	1398	MET	C-N-CA	-5.32	113.09	120.38
5	B	1026	LEU	N-CA-C	5.32	117.50	111.11
7	E	173	SER	CA-C-N	-5.32	111.37	121.54
7	E	173	SER	C-N-CA	-5.32	111.37	121.54
4	A	693	VAL	CG1-CB-CG2	-5.32	99.10	110.80
4	A	1035	TYR	CB-CA-C	5.32	118.67	111.70
4	A	1144	LYS	CB-CG-CD	5.32	123.54	111.30
5	B	90	ILE	CB-CA-C	-5.32	100.96	111.60
5	B	933	SER	N-CA-CB	5.32	119.55	110.50
5	B	986	GLN	N-CA-CB	-5.32	104.04	110.53
5	B	1150	ARG	CA-C-N	-5.32	112.75	122.38
5	B	1150	ARG	C-N-CA	-5.32	112.75	122.38
6	C	135	GLN	O-C-N	5.32	129.22	122.04
7	E	112	TYR	CA-CB-CG	5.32	123.47	113.90
7	E	156	LEU	O-C-N	5.32	130.23	122.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	431	LYS	CA-C-N	-5.32	112.40	121.97
4	A	431	LYS	C-N-CA	-5.32	112.40	121.97
4	A	1307	GLU	CA-C-O	5.32	126.15	120.46
5	B	938	SER	CA-C-N	-5.32	110.84	120.94
5	B	938	SER	C-N-CA	-5.32	110.84	120.94
4	A	838	GLN	N-CA-CB	5.32	119.47	110.49
4	A	1116	LEU	CB-CG-CD2	-5.32	94.75	110.70
4	A	1218	GLN	CB-CA-C	-5.32	99.84	110.42
5	B	457	LEU	CD1-CG-CD2	-5.32	99.10	110.80
5	B	465	ASN	CB-CG-OD1	5.32	131.43	120.80
4	A	590	ARG	N-CA-C	5.31	122.12	110.80
5	B	346	GLU	CA-CB-CG	5.31	124.73	114.10
12	K	54	ARG	CA-C-N	-5.31	112.83	122.50
12	K	54	ARG	C-N-CA	-5.31	112.83	122.50
4	A	353	ILE	CB-CA-C	-5.31	101.19	110.38
4	A	1013	ASP	CA-CB-CG	5.31	117.91	112.60
5	B	387	LEU	N-CA-C	-5.31	105.60	111.71
5	B	830	TYR	CB-CA-C	-5.31	99.85	110.42
5	B	915	THR	O-C-N	5.31	129.33	123.33
4	A	1315	GLU	CB-CA-C	-5.31	101.50	110.64
6	C	168	ALA	O-C-N	5.31	129.12	122.22
9	H	103	LYS	N-CA-C	5.31	118.09	109.06
4	A	35	ILE	CA-C-N	-5.31	111.85	121.14
4	A	35	ILE	C-N-CA	-5.31	111.85	121.14
4	A	715	GLU	N-CA-C	-5.31	99.49	110.80
5	B	189	LEU	N-CA-C	5.31	118.22	111.69
6	C	86	CYS	CA-CB-SG	-5.31	102.19	114.40
7	E	38	PRO	N-CA-C	5.31	123.41	112.47
10	I	26	LEU	CA-CB-CG	-5.31	97.72	116.30
5	B	180	TYR	O-C-N	-5.31	115.53	122.59
5	B	794	ASN	CB-CA-C	-5.31	99.23	109.37
4	A	1300	LYS	CA-CB-CG	-5.31	103.49	114.10
5	B	251	ILE	N-CA-C	5.31	116.22	108.53
4	A	647	GLY	CA-C-O	5.30	126.00	120.80
4	A	694	THR	CA-CB-CG2	-5.30	101.48	110.50
4	A	1278	ASN	N-CA-C	-5.30	102.68	113.29
5	B	307	ASP	N-CA-CB	-5.30	104.25	110.35
7	E	24	LYS	N-CA-C	-5.30	105.50	111.28
7	E	80	VAL	CB-CA-C	-5.30	103.20	111.26
7	E	123	LEU	O-C-N	5.30	128.99	122.20
7	E	196	VAL	N-CA-CB	5.30	119.98	111.23
4	A	1031	VAL	CB-CA-C	-5.30	105.09	111.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1205	LYS	CD-CE-NZ	5.30	128.86	111.90
5	B	951	GLN	CA-CB-CG	5.30	124.70	114.10
5	B	1163	CYS	CB-CA-C	-5.30	102.53	110.16
7	E	10	SER	CB-CA-C	-5.30	102.49	110.92
7	E	114	ASN	N-CA-C	5.30	122.09	110.80
7	E	158	SER	N-CA-C	5.30	122.09	110.80
4	A	122	MET	CA-C-O	-5.30	114.88	120.55
4	A	512	VAL	CA-CB-CG2	-5.30	101.39	110.40
4	A	799	PHE	CA-C-O	5.30	126.56	120.84
4	A	1038	THR	CA-C-N	-5.30	112.25	120.31
4	A	1038	THR	C-N-CA	-5.30	112.25	120.31
4	A	1100	ARG	CA-C-N	-5.30	111.42	121.54
4	A	1100	ARG	C-N-CA	-5.30	111.42	121.54
6	C	180	TYR	N-CA-C	5.30	118.02	108.48
7	E	54	GLN	N-CA-CB	5.30	118.21	110.58
9	H	33	GLN	N-CA-CB	-5.30	100.91	109.60
9	H	108	SER	N-CA-CB	5.30	119.45	110.49
10	I	106	CYS	CA-C-N	5.30	131.66	121.54
10	I	106	CYS	C-N-CA	5.30	131.66	121.54
4	A	733	ALA	CA-C-N	-5.30	111.42	121.54
4	A	733	ALA	C-N-CA	-5.30	111.42	121.54
4	A	913	LEU	CB-CA-C	-5.30	98.69	109.65
5	B	98	THR	O-C-N	5.30	128.99	123.06
5	B	374	LYS	CG-CD-CE	5.30	123.48	111.30
7	E	186	LEU	CA-CB-CG	-5.30	97.77	116.30
7	E	199	ILE	CA-CB-CG1	-5.30	101.40	110.40
9	H	17	PRO	N-CA-C	5.30	123.38	112.47
12	K	6	ARG	NH1-CZ-NH2	5.30	126.19	119.30
4	A	66	LYS	O-C-N	5.29	129.63	122.59
4	A	218	ASP	N-CA-C	-5.29	104.49	111.96
5	B	184	ALA	CB-CA-C	-5.29	99.88	110.42
10	I	17	ARG	CB-CG-CD	-5.29	99.12	111.30
11	J	55	ASP	N-CA-CB	-5.29	102.31	110.25
4	A	286	HIS	N-CA-CB	-5.29	101.54	110.49
4	A	797	LYS	O-C-N	5.29	128.55	122.25
5	B	681	TRP	CA-CB-CG	5.29	123.66	113.60
5	B	1159	ARG	CG-CD-NE	-5.29	100.35	112.00
7	E	126	SER	N-CA-C	5.29	120.11	111.37
10	I	70	ARG	CA-C-N	5.29	131.83	122.67
10	I	70	ARG	C-N-CA	5.29	131.83	122.67
4	A	1134	ILE	N-CA-C	5.29	120.35	109.34
5	B	173	MET	CA-C-O	5.29	126.58	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	266	ALA	N-CA-C	5.29	122.07	110.80
5	B	317	CYS	CB-CA-C	-5.29	102.13	110.86
5	B	645	SER	CA-C-O	-5.29	112.94	120.51
5	B	866	TYR	O-C-N	5.29	128.76	122.46
6	C	232	VAL	N-CA-CB	-5.29	101.42	111.21
4	A	693	VAL	N-CA-CB	5.29	116.74	110.55
4	A	1120	LEU	N-CA-CB	-5.29	101.55	110.49
5	B	553	PRO	CA-C-N	-5.29	114.43	120.88
5	B	553	PRO	C-N-CA	-5.29	114.43	120.88
5	B	770	GLN	CA-C-N	-5.29	114.35	122.60
5	B	770	GLN	C-N-CA	-5.29	114.35	122.60
9	H	20	TYR	CA-CB-CG	5.29	123.42	113.90
4	A	366	VAL	CA-C-N	-5.29	113.85	120.51
4	A	366	VAL	C-N-CA	-5.29	113.85	120.51
4	A	1243	VAL	N-CA-CB	-5.29	102.51	111.50
4	A	1324	PRO	N-CA-C	5.29	120.53	114.03
13	L	36	SER	CA-C-O	-5.29	114.84	120.92
7	E	176	PRO	N-CD-CG	-5.29	95.27	103.20
4	A	707	GLY	CA-C-N	-5.29	111.18	121.91
4	A	707	GLY	C-N-CA	-5.29	111.18	121.91
4	A	831	THR	CA-C-O	5.29	125.47	119.18
4	A	1304	TRP	N-CA-CB	-5.29	101.80	110.68
6	C	52	GLU	CA-CB-CG	5.29	124.67	114.10
5	B	358	LYS	CG-CD-CE	5.28	123.45	111.30
5	B	482	VAL	O-C-N	-5.28	115.97	122.57
12	K	35	PHE	O-C-N	-5.28	116.15	123.12
4	A	398	GLU	CA-C-N	-5.28	108.92	121.80
4	A	398	GLU	C-N-CA	-5.28	108.92	121.80
4	A	923	LEU	CB-CA-C	-5.28	99.92	110.42
7	E	91	LYS	CB-CG-CD	5.28	123.44	111.30
12	K	31	VAL	N-CA-C	5.28	117.36	108.81
4	A	1147	THR	CA-C-O	-5.28	114.46	120.58
4	A	1169	ILE	CG1-CB-CG2	5.28	126.53	110.70
5	B	410	GLY	CA-C-N	5.28	126.44	119.84
5	B	410	GLY	C-N-CA	5.28	126.44	119.84
6	C	9	LYS	CA-CB-CG	5.28	124.66	114.10
6	C	110	THR	CA-C-N	-5.28	114.79	122.65
6	C	110	THR	C-N-CA	-5.28	114.79	122.65
4	A	176	LYS	CA-CB-CG	5.28	124.65	114.10
4	A	641	VAL	CB-CA-C	-5.28	105.02	112.14
4	A	736	ASN	CA-C-O	-5.28	112.97	120.51
4	A	811	GLN	CA-CB-CG	5.28	124.65	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	210	LYS	CG-CD-CE	-5.28	99.17	111.30
6	C	194	GLU	CA-CB-CG	5.28	124.65	114.10
4	A	726	ARG	O-C-N	5.27	127.71	122.12
5	B	561	TRP	N-CA-CB	5.27	119.40	110.49
9	H	108	SER	CB-CA-C	5.27	120.92	110.42
4	A	556	TRP	CA-CB-CG	-5.27	103.58	113.60
4	A	1212	VAL	O-C-N	5.27	129.16	122.57
5	B	451	LYS	CD-CE-NZ	5.27	128.77	111.90
5	B	621	GLU	CA-CB-CG	5.27	124.64	114.10
4	A	554	PRO	O-C-N	5.27	129.76	122.64
5	B	1220	ARG	CA-CB-CG	5.27	124.64	114.10
4	A	401	GLY	N-CA-C	5.27	125.67	113.18
5	B	1162	ILE	N-CA-CB	-5.27	101.61	111.62
7	E	133	GLU	CG-CD-OE2	5.27	130.52	118.40
8	F	135	ARG	CB-CG-CD	5.27	123.42	111.30
11	J	53	HIS	CA-C-O	-5.27	112.97	120.51
2	T	28	DT	C6-N1-C1'	5.27	127.25	119.35
4	A	1039	LYS	O-C-N	5.27	128.75	122.27
4	A	1321	GLY	CA-C-O	5.27	124.17	118.95
5	B	728	ARG	NH1-CZ-NH2	5.27	126.15	119.30
5	B	1010	LEU	CA-C-O	5.27	126.76	120.28
4	A	296	LEU	CB-CA-C	-5.27	99.94	110.42
4	A	981	LEU	N-CA-C	5.27	117.62	110.35
5	B	1214	PRO	N-CA-CB	5.27	108.78	103.25
6	C	116	LYS	O-C-N	-5.27	115.48	122.33
4	A	40	THR	N-CA-CB	-5.26	100.06	110.48
4	A	1080	THR	CA-C-N	5.26	131.18	121.70
4	A	1080	THR	C-N-CA	5.26	131.18	121.70
4	A	1102	LYS	CA-CB-CG	5.26	124.63	114.10
4	A	1375	MET	CA-C-N	-5.26	111.86	122.55
4	A	1375	MET	C-N-CA	-5.26	111.86	122.55
5	B	760	ASP	CB-CG-OD2	5.26	130.51	118.40
7	E	17	ARG	NE-CZ-NH1	-5.26	116.23	121.50
7	E	82	PHE	CA-CB-CG	5.26	119.06	113.80
7	E	142	VAL	N-CA-C	5.26	117.20	108.99
8	F	84	TYR	N-CA-C	-5.26	103.58	110.53
12	K	58	PHE	CA-C-N	-5.26	111.52	121.63
12	K	58	PHE	C-N-CA	-5.26	111.52	121.63
4	A	1078	GLN	CA-CB-CG	-5.26	103.57	114.10
5	B	297	ILE	N-CA-C	5.26	115.37	110.42
4	A	397	ASN	N-CA-C	-5.26	106.37	114.16
4	A	507	VAL	CA-CB-CG2	-5.26	101.45	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1026	LEU	N-CA-CB	5.26	119.38	110.49
4	A	1217	LYS	CB-CA-C	5.26	119.80	110.85
4	A	1323	ASP	CB-CG-OD2	-5.26	106.30	118.40
5	B	601	ARG	O-C-N	-5.26	115.59	122.59
5	B	878	GLN	CA-CB-CG	-5.26	103.58	114.10
5	B	1220	ARG	NE-CZ-NH1	5.26	126.76	121.50
7	E	11	ARG	NE-CZ-NH2	5.26	123.94	119.20
4	A	1298	TYR	N-CA-CB	-5.26	102.24	109.97
5	B	113	TYR	N-CA-CB	-5.26	101.11	110.05
5	B	271	ALA	CA-C-N	-5.26	113.50	122.33
5	B	271	ALA	C-N-CA	-5.26	113.50	122.33
5	B	863	GLU	N-CA-CB	-5.26	102.30	110.55
5	B	970	THR	N-CA-C	-5.26	101.08	109.07
9	H	23	VAL	CA-CB-CG1	-5.26	101.46	110.40
12	K	55	LYS	N-CA-C	-5.26	104.31	111.56
4	A	446	ARG	NE-CZ-NH1	5.25	126.75	121.50
5	B	393	LYS	CA-CB-CG	-5.25	103.59	114.10
6	C	134	ILE	CB-CA-C	-5.25	101.58	111.30
7	E	175	LEU	CA-C-N	5.25	125.01	119.76
7	E	175	LEU	C-N-CA	5.25	125.01	119.76
4	A	1115	SER	N-CA-CB	5.25	119.36	110.49
5	B	1160	VAL	CB-CA-C	-5.25	102.57	110.55
7	E	3	GLN	CB-CA-C	5.25	120.87	110.42
10	I	9	ASP	OD1-CG-OD2	-5.25	110.30	122.90
4	A	28	ARG	CA-C-O	5.25	125.14	119.15
4	A	511	ILE	CB-CA-C	-5.25	105.25	111.97
5	B	432	MET	CB-CA-C	-5.25	99.97	110.42
5	B	754	SER	CA-C-O	5.25	125.72	119.10
4	A	424	ILE	O-C-N	5.25	129.13	122.57
4	A	1208	THR	CB-CA-C	-5.25	102.41	111.23
5	B	562	GLY	CA-C-N	-5.25	111.51	121.54
5	B	562	GLY	C-N-CA	-5.25	111.51	121.54
5	B	876	LYS	CB-CA-C	-5.25	103.10	110.13
6	C	263	THR	CA-C-O	-5.25	113.00	120.51
10	I	56	ALA	N-CA-C	-5.25	99.62	110.80
4	A	303	TYR	CE1-CZ-CE2	-5.25	109.81	120.30
5	B	355	ILE	N-CA-C	-5.25	98.43	109.34
5	B	383	ASN	CA-C-N	-5.25	111.61	120.58
5	B	383	ASN	C-N-CA	-5.25	111.61	120.58
5	B	434	ARG	CG-CD-NE	5.25	123.54	112.00
5	B	787	VAL	N-CA-CB	-5.25	102.57	111.23
7	E	19	VAL	O-C-N	5.25	126.96	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	J	12	LYS	CB-CA-C	-5.25	101.69	110.29
12	K	18	LYS	CD-CE-NZ	5.25	128.69	111.90
4	A	1024	SER	N-CA-CB	5.25	117.83	110.12
5	B	875	GLU	CA-C-N	-5.25	113.94	122.65
5	B	875	GLU	C-N-CA	-5.25	113.94	122.65
4	A	43	GLU	CB-CG-CD	5.24	121.51	112.60
4	A	933	TYR	N-CA-C	5.24	119.16	112.87
4	A	937	VAL	N-CA-CB	5.24	117.28	110.57
4	A	1385	THR	OG1-CB-CG2	5.24	119.79	109.30
4	A	1445	ILE	CA-C-O	5.24	129.71	120.80
9	H	10	PHE	CA-C-O	5.24	127.87	121.68
5	B	56	ASP	CA-CB-CG	5.24	117.84	112.60
4	A	143	LYS	N-CA-C	-5.24	106.57	113.12
6	C	67	LEU	N-CA-C	-5.24	105.63	112.23
8	F	118	LEU	CD1-CG-CD2	5.24	122.33	110.80
4	A	1283	VAL	CG1-CB-CG2	5.24	122.32	110.80
4	A	1409	LEU	CA-C-O	-5.24	114.87	120.42
5	B	475	SER	CA-CB-OG	5.24	121.58	111.10
5	B	614	SER	O-C-N	5.24	129.76	123.16
8	F	119	ARG	NH1-CZ-NH2	-5.24	112.49	119.30
4	A	214	ILE	O-C-N	-5.24	116.03	122.57
5	B	283	VAL	O-C-N	5.24	127.34	121.90
5	B	307	ASP	OD1-CG-OD2	5.24	135.47	122.90
4	A	884	ASP	CA-CB-CG	5.23	117.83	112.60
5	B	40	GLU	CB-CA-C	5.23	119.77	109.72
5	B	712	PRO	CB-CA-C	5.23	120.20	111.56
6	C	215	GLU	O-C-N	5.23	129.55	122.59
4	A	944	ARG	NE-CZ-NH1	-5.23	116.27	121.50
5	B	113	TYR	OH-CZ-CE2	-5.23	104.20	119.90
5	B	250	PHE	N-CA-CB	5.23	118.14	110.35
6	C	84	ARG	CB-CG-CD	5.23	123.34	111.30
6	C	136	ASP	CA-C-N	-5.23	112.76	122.60
6	C	136	ASP	C-N-CA	-5.23	112.76	122.60
10	I	119	THR	CA-C-O	-5.23	113.38	119.14
4	A	203	SER	N-CA-CB	5.23	117.77	109.71
4	A	401	GLY	O-C-N	-5.23	115.90	122.70
4	A	562	THR	O-C-N	5.23	126.69	121.30
4	A	1169	ILE	CA-C-N	5.23	128.10	122.97
4	A	1169	ILE	C-N-CA	5.23	128.10	122.97
4	A	1339	LEU	CB-CG-CD1	5.23	126.39	110.70
5	B	65	GLU	CA-C-O	-5.23	113.03	120.51
6	C	29	MET	CA-C-O	5.23	124.51	118.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	F	113	GLY	O-C-N	5.23	129.50	122.70
13	L	61	THR	N-CA-CB	5.23	120.65	111.55
5	B	953	LEU	N-CA-C	5.23	118.09	109.72
6	C	180	TYR	CA-C-O	5.23	127.27	120.21
4	A	1353	TYR	OH-CZ-CE2	-5.23	104.22	119.90
5	B	399	ASP	CA-C-N	5.23	129.93	122.72
5	B	399	ASP	C-N-CA	5.23	129.93	122.72
6	C	193	TYR	CA-C-N	-5.23	111.56	121.54
6	C	193	TYR	C-N-CA	-5.23	111.56	121.54
7	E	31	THR	CA-C-O	5.23	127.98	120.51
4	A	50	ILE	CG1-CB-CG2	5.23	126.38	110.70
4	A	326	ARG	CA-C-N	-5.23	111.39	121.58
4	A	326	ARG	C-N-CA	-5.23	111.39	121.58
4	A	759	ALA	N-CA-CB	-5.23	101.88	109.82
5	B	565	PRO	N-CA-CB	5.23	108.74	103.25
7	E	183	PRO	CA-C-O	-5.23	111.09	120.60
4	A	697	ALA	N-CA-C	5.22	119.14	112.87
4	A	918	GLU	CB-CA-C	5.22	120.82	110.42
4	A	1077	THR	CA-CB-CG2	-5.22	101.62	110.50
5	B	605	ARG	CA-C-N	-5.22	111.80	120.68
5	B	605	ARG	C-N-CA	-5.22	111.80	120.68
5	B	1014	PRO	N-CD-CG	-5.22	95.37	103.20
6	C	60	ASP	CA-CB-CG	5.22	117.82	112.60
4	A	901	LEU	CA-CB-CG	-5.22	98.03	116.30
4	A	1439	GLY	CA-C-O	5.22	126.54	119.28
5	B	615	MET	CA-C-N	5.22	130.04	123.10
5	B	615	MET	C-N-CA	5.22	130.04	123.10
7	E	212	ARG	NH1-CZ-NH2	5.22	126.09	119.30
4	A	249	SER	N-CA-C	5.22	121.92	110.80
5	B	997	GLU	N-CA-CB	5.22	117.55	109.98
5	B	1025	HIS	CB-CA-C	-5.22	100.03	110.42
5	B	1072	MET	CB-CG-SD	-5.22	97.04	112.70
6	C	72	LEU	CB-CG-CD1	-5.22	95.04	110.70
13	L	66	GLN	N-CA-CB	-5.22	101.91	110.42
4	A	253	ASN	CA-C-N	5.22	131.51	121.54
4	A	253	ASN	C-N-CA	5.22	131.51	121.54
4	A	940	ARG	CA-C-N	-5.22	111.57	121.54
4	A	940	ARG	C-N-CA	-5.22	111.57	121.54
5	B	43	LEU	CA-CB-CG	-5.22	98.04	116.30
5	B	737	THR	N-CA-CB	-5.22	101.67	110.49
10	I	45	ARG	CB-CG-CD	5.22	123.30	111.30
4	A	456	MET	CA-C-O	5.22	127.97	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	712	GLU	CB-CG-CD	5.22	121.47	112.60
4	A	1148	ILE	CB-CA-C	-5.22	102.73	111.29
5	B	481	GLN	CB-CA-C	-5.22	100.95	111.17
5	B	849	GLY	N-CA-C	5.22	121.89	114.85
6	C	42	PRO	CA-C-N	-5.22	112.88	121.80
6	C	42	PRO	C-N-CA	-5.22	112.88	121.80
4	A	709	THR	N-CA-CB	5.21	117.67	109.69
4	A	1306	LEU	O-C-N	5.21	129.73	123.16
5	B	790	ASP	CB-CG-OD2	5.21	130.40	118.40
6	C	212	PRO	CB-CA-C	-5.21	104.56	110.92
4	A	833	GLU	CA-C-O	5.21	126.80	121.07
4	A	319	GLY	O-C-N	5.21	129.47	122.70
4	A	681	GLU	CA-C-N	-5.21	111.59	121.54
4	A	681	GLU	C-N-CA	-5.21	111.59	121.54
4	A	934	LYS	CB-CG-CD	5.21	123.29	111.30
12	K	5	ASP	O-C-N	-5.21	116.65	122.75
4	A	627	GLY	N-CA-C	5.21	125.53	113.18
4	A	850	VAL	CA-CB-CG2	5.21	119.26	110.40
4	A	532	ARG	CB-CG-CD	5.21	123.28	111.30
5	B	115	GLN	CB-CA-C	5.21	119.49	110.84
5	B	604	ARG	CG-CD-NE	-5.21	100.54	112.00
10	I	73	ARG	CA-C-N	-5.21	113.77	122.21
10	I	73	ARG	C-N-CA	-5.21	113.77	122.21
5	B	1186	ASP	CB-CA-C	-5.21	103.32	111.39
4	A	212	LYS	CG-CD-CE	5.21	123.27	111.30
4	A	1339	LEU	CB-CA-C	-5.21	100.73	110.36
9	H	31	THR	CA-C-N	-5.21	111.60	121.54
9	H	31	THR	C-N-CA	-5.21	111.60	121.54
6	C	126	GLY	O-C-N	5.20	127.31	122.57
9	H	5	LEU	N-CA-CB	-5.20	102.79	111.06
4	A	140	THR	OG1-CB-CG2	5.20	119.70	109.30
5	B	100	PRO	CA-C-N	-5.20	111.60	121.54
5	B	100	PRO	C-N-CA	-5.20	111.60	121.54
12	K	51	LEU	CA-C-N	-5.20	112.39	122.06
12	K	51	LEU	C-N-CA	-5.20	112.39	122.06
4	A	478	TYR	O-C-N	5.20	129.75	122.36
5	B	694	ASP	N-CA-C	5.20	118.29	109.76
5	B	895	ASP	N-CA-CB	-5.20	102.51	110.26
10	I	96	SER	CA-C-O	5.20	126.79	120.81
11	J	43	ARG	CB-CA-C	-5.20	101.09	109.72
4	A	767	GLN	CA-C-N	-5.20	113.80	122.64
4	A	767	GLN	C-N-CA	-5.20	113.80	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	871	ASP	O-C-N	5.20	129.06	122.04
4	A	1290	LYS	CB-CG-CD	5.20	123.26	111.30
4	A	1348	LEU	CB-CG-CD1	-5.20	95.10	110.70
5	B	579	ARG	CG-CD-NE	-5.20	100.56	112.00
5	B	807	ARG	CA-C-N	5.20	131.79	122.38
5	B	807	ARG	C-N-CA	5.20	131.79	122.38
6	C	226	ASP	N-CA-CB	5.20	120.83	111.37
7	E	181	ALA	CB-CA-C	-5.20	99.44	110.31
10	I	117	LYS	CA-CB-CG	5.20	124.50	114.10
12	K	106	GLU	O-C-N	5.20	129.34	122.43
4	A	677	ARG	CA-C-N	-5.20	112.05	121.14
4	A	677	ARG	C-N-CA	-5.20	112.05	121.14
4	A	1033	GLN	CA-CB-CG	-5.20	103.71	114.10
5	B	565	PRO	N-CD-CG	-5.20	95.41	103.20
4	A	39	GLU	CB-CG-CD	5.20	121.43	112.60
4	A	149	GLU	CA-C-N	-5.20	112.83	122.60
4	A	149	GLU	C-N-CA	-5.20	112.83	122.60
4	A	285	PRO	CB-CA-C	-5.20	102.99	111.56
4	A	491	VAL	CA-C-O	5.20	126.91	119.95
5	B	756	ILE	CA-CB-CG2	-5.20	101.67	110.50
6	C	236	GLY	CA-C-N	-5.20	111.45	121.58
6	C	236	GLY	C-N-CA	-5.20	111.45	121.58
5	B	680	THR	CA-C-O	-5.19	115.28	121.56
4	A	565	ILE	CA-CB-CG1	-5.19	101.57	110.40
4	A	1138	ILE	N-CA-CB	-5.19	105.70	111.41
5	B	1045	SER	O-C-N	5.19	128.49	121.12
7	E	87	SER	O-C-N	5.19	129.20	123.33
9	H	34	ASP	CA-CB-CG	5.19	117.79	112.60
12	K	54	ARG	NH1-CZ-NH2	-5.19	112.55	119.30
4	A	408	ASP	CA-CB-CG	5.19	117.79	112.60
4	A	821	ARG	CA-C-N	-5.19	113.53	120.54
4	A	821	ARG	C-N-CA	-5.19	113.53	120.54
4	A	1026	LEU	CA-C-O	5.19	127.93	120.51
5	B	285	ILE	CA-CB-CG1	5.19	119.22	110.40
4	A	1115	SER	CA-C-O	5.19	127.93	120.51
5	B	854	LEU	CA-C-N	-5.19	114.06	121.33
5	B	854	LEU	C-N-CA	-5.19	114.06	121.33
4	A	995	GLU	O-C-N	5.19	129.44	122.49
4	A	1017	LEU	CA-CB-CG	-5.19	98.14	116.30
4	A	1300	LYS	CB-CA-C	5.19	120.74	110.42
5	B	103	ASN	CA-C-O	-5.19	114.95	120.40
5	B	134	LYS	N-CA-CB	-5.19	101.68	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	552	MET	CG-SD-CE	5.19	112.31	100.90
5	B	836	GLU	CA-CB-CG	5.19	124.48	114.10
6	C	176	ILE	N-CA-C	5.19	115.32	107.80
5	B	454	THR	CA-CB-OG1	5.19	117.38	109.60
5	B	660	LYS	CA-C-N	-5.19	112.41	122.06
5	B	660	LYS	C-N-CA	-5.19	112.41	122.06
5	B	984	HIS	CB-CA-C	5.19	120.74	110.42
7	E	144	ILE	CB-CA-C	5.19	118.81	112.02
4	A	31	SER	CA-C-N	5.18	131.30	121.97
4	A	31	SER	C-N-CA	5.18	131.30	121.97
4	A	290	GLU	N-CA-C	5.18	121.84	110.80
4	A	383	TYR	OH-CZ-CE2	-5.18	104.34	119.90
4	A	589	GLN	CB-CG-CD	5.18	121.42	112.60
4	A	1011	GLN	CA-C-O	5.18	125.96	120.10
4	A	1065	GLY	CA-C-N	-5.18	112.28	120.47
4	A	1065	GLY	C-N-CA	-5.18	112.28	120.47
5	B	1122	ARG	NE-CZ-NH2	-5.18	114.53	119.20
7	E	4	GLU	CG-CD-OE1	5.18	130.32	118.40
5	B	211	VAL	O-C-N	5.18	128.43	123.14
5	B	633	VAL	O-C-N	-5.18	115.68	122.47
6	C	11	ARG	CG-CD-NE	5.18	123.40	112.00
10	I	8	ARG	NE-CZ-NH2	-5.18	114.53	119.20
10	I	63	GLY	O-C-N	-5.18	115.96	122.70
4	A	224	PHE	N-CA-C	5.18	115.89	108.74
4	A	930	ASP	CB-CA-C	5.18	120.73	110.42
4	A	1199	ARG	N-CA-CB	5.18	118.52	109.72
5	B	45	SER	CA-C-N	-5.18	111.65	121.54
5	B	45	SER	C-N-CA	-5.18	111.65	121.54
7	E	2	ASP	CA-C-N	5.18	131.43	121.54
7	E	2	ASP	C-N-CA	5.18	131.43	121.54
4	A	880	LYS	O-C-N	5.18	129.48	122.59
4	A	492	PRO	CA-C-N	-5.18	114.03	122.26
4	A	492	PRO	C-N-CA	-5.18	114.03	122.26
5	B	535	LEU	CD1-CG-CD2	-5.18	99.41	110.80
5	B	1217	TYR	O-C-N	5.18	129.61	123.24
7	E	28	TYR	CA-CB-CG	5.18	123.22	113.90
9	H	97	MET	N-CA-C	5.18	116.53	109.18
10	I	61	ASP	CA-CB-CG	-5.18	107.42	112.60
4	A	645	LEU	CA-C-N	-5.17	111.73	120.58
4	A	645	LEU	C-N-CA	-5.17	111.73	120.58
4	A	988	LEU	CD1-CG-CD2	5.17	122.18	110.80
4	A	1157	ASP	O-C-N	5.17	127.27	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1324	PRO	O-C-N	5.17	129.59	122.35
5	B	606	LYS	N-CA-CB	5.17	118.27	110.30
5	B	839	MET	CA-C-O	5.17	126.77	121.23
7	E	17	ARG	CA-C-O	5.17	127.91	120.51
7	E	36	GLU	N-CA-CB	-5.17	101.75	110.49
7	E	161	LYS	CA-CB-CG	5.17	124.45	114.10
12	K	71	PHE	CA-CB-CG	5.17	118.97	113.80
4	A	208	LEU	CA-C-O	-5.17	115.38	121.07
4	A	573	SER	CB-CA-C	-5.17	101.26	109.80
4	A	771	GLU	CB-CA-C	5.17	119.35	111.80
4	A	1200	ALA	N-CA-C	5.17	121.82	110.80
5	B	25	ILE	N-CA-CB	-5.17	102.80	111.38
4	A	961	ARG	N-CA-CB	5.17	119.48	110.18
5	B	27	ALA	CA-C-N	5.17	131.41	121.54
5	B	27	ALA	C-N-CA	5.17	131.41	121.54
5	B	1021	MET	CG-SD-CE	-5.17	89.53	100.90
6	C	242	GLN	CA-CB-CG	5.17	124.44	114.10
4	A	724	GLU	CA-C-O	-5.17	115.37	120.90
4	A	1097	GLY	CA-C-N	-5.17	112.57	122.13
4	A	1097	GLY	C-N-CA	-5.17	112.57	122.13
5	B	637	LEU	CB-CG-CD2	-5.17	95.20	110.70
5	B	982	SER	CA-C-O	-5.17	113.12	120.51
5	B	1208	MET	CA-C-N	-5.17	113.67	122.56
5	B	1208	MET	C-N-CA	-5.17	113.67	122.56
4	A	796	SER	CB-CA-C	-5.17	101.90	110.68
5	B	1164	GLY	CA-C-O	5.17	127.42	119.15
1	R	10	A	P-O5'-C5'	-5.16	113.16	120.90
4	A	651	LYS	N-CA-CB	-5.16	101.76	110.49
4	A	1103	GLU	CA-CB-CG	-5.16	103.77	114.10
10	I	6	PHE	O-C-N	-5.16	116.44	123.10
4	A	635	ARG	NE-CZ-NH2	-5.16	114.55	119.20
5	B	392	ARG	NE-CZ-NH2	-5.16	114.56	119.20
9	H	23	VAL	N-CA-C	-5.16	98.60	109.34
2	T	23	DC	C4'-C3'-C2'	5.16	110.14	102.40
4	A	405	VAL	CA-CB-CG1	-5.16	101.63	110.40
4	A	1040	GLN	CA-C-O	5.16	126.22	120.80
5	B	223	VAL	CA-C-N	-5.16	112.91	121.89
5	B	223	VAL	C-N-CA	-5.16	112.91	121.89
5	B	1106	ARG	N-CA-C	-5.16	101.23	109.07
12	K	102	LYS	CG-CD-CE	5.16	123.17	111.30
5	B	528	PRO	CA-N-CD	-5.16	104.78	112.00
4	A	465	TYR	CA-C-O	-5.16	113.14	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	833	GLU	OE1-CD-OE2	-5.16	110.53	122.90
5	B	313	MET	CB-CA-C	-5.16	102.23	110.79
5	B	962	LYS	O-C-N	-5.16	117.18	123.16
5	B	1032	SER	O-C-N	-5.16	116.32	122.20
6	C	103	ALA	N-CA-CB	5.16	119.70	111.56
4	A	677	ARG	N-CA-CB	5.15	118.16	110.22
4	A	1287	TYR	CE1-CZ-CE2	-5.15	109.99	120.30
5	B	33	VAL	N-CA-C	-5.15	105.36	110.62
6	C	57	VAL	O-C-N	5.15	127.14	121.83
9	H	80	ARG	CA-CB-CG	5.15	124.40	114.10
9	H	109	LYS	CA-C-N	-5.15	111.70	121.54
9	H	109	LYS	C-N-CA	-5.15	111.70	121.54
4	A	428	TYR	N-CA-CB	5.15	119.19	110.49
4	A	870	GLU	CG-CD-OE2	-5.15	106.55	118.40
4	A	1107	VAL	CA-C-O	5.15	127.22	120.78
4	A	1175	SER	CA-C-N	5.15	130.97	121.70
4	A	1175	SER	C-N-CA	5.15	130.97	121.70
5	B	376	PHE	CA-C-O	5.15	127.88	120.51
6	C	26	ASP	N-CA-CB	-5.15	100.83	109.28
4	A	620	LYS	CA-C-N	-5.15	113.01	121.92
4	A	620	LYS	C-N-CA	-5.15	113.01	121.92
4	A	1280	GLU	CB-CA-C	5.15	120.66	110.42
4	A	1408	ILE	O-C-N	5.15	128.87	121.82
5	B	816	GLU	N-CA-C	-5.15	107.55	113.88
6	C	154	LYS	CA-C-N	-5.15	114.24	122.53
6	C	154	LYS	C-N-CA	-5.15	114.24	122.53
4	A	244	PRO	N-CD-CG	-5.15	95.48	103.20
5	B	187	SER	CA-CB-OG	5.15	121.39	111.10
4	A	462	VAL	CA-CB-CG1	-5.14	101.65	110.40
4	A	814	PHE	CA-C-O	5.14	125.71	119.38
5	B	1201	LYS	N-CA-C	-5.14	105.10	111.33
6	C	52	GLU	O-C-N	-5.14	116.40	122.32
6	C	189	THR	O-C-N	5.14	129.12	123.25
13	L	33	GLU	CB-CA-C	5.14	119.03	110.90
5	B	1163	CYS	N-CA-CB	5.14	117.63	109.51
9	H	4	THR	CA-CB-CG2	5.14	119.24	110.50
11	J	48	ARG	NE-CZ-NH1	-5.14	116.36	121.50
4	A	496	GLU	CG-CD-OE2	5.14	130.22	118.40
5	B	403	LYS	CG-CD-CE	5.14	123.12	111.30
5	B	418	LYS	O-C-N	-5.14	115.75	122.59
6	C	268	ASP	CB-CG-OD1	5.14	130.22	118.40
4	A	200	ARG	NE-CZ-NH1	5.14	126.64	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	801	GLU	N-CA-CB	-5.14	103.21	110.81
4	A	37	PHE	O-C-N	-5.14	116.59	121.57
4	A	136	ALA	CA-C-N	-5.14	114.46	122.42
4	A	136	ALA	C-N-CA	-5.14	114.46	122.42
4	A	870	GLU	CA-CB-CG	-5.14	103.83	114.10
8	F	148	VAL	CA-C-O	5.14	124.64	119.20
4	A	271	LYS	N-CA-CB	5.13	119.17	110.49
4	A	277	GLU	CA-C-N	5.13	131.35	121.54
4	A	277	GLU	C-N-CA	5.13	131.35	121.54
4	A	1383	SER	N-CA-C	5.13	121.73	110.80
5	B	199	MET	N-CA-C	-5.13	105.78	113.89
5	B	663	ALA	CB-CA-C	-5.13	100.20	110.42
5	B	944	THR	N-CA-C	5.13	122.45	114.64
5	B	1170	THR	CA-C-N	-5.13	112.73	121.97
5	B	1170	THR	C-N-CA	-5.13	112.73	121.97
6	C	90	ASP	CB-CG-OD1	5.13	130.21	118.40
7	E	209	ALA	N-CA-CB	-5.13	101.95	110.47
8	F	85	MET	CB-CA-C	-5.13	100.85	109.48
4	A	388	LEU	CA-C-O	5.13	127.85	120.51
4	A	736	ASN	N-CA-C	5.13	121.73	110.80
5	B	212	LEU	CA-CB-CG	-5.13	98.33	116.30
6	C	168	ALA	CB-CA-C	5.13	119.33	111.02
10	I	99	LEU	CB-CA-C	-5.13	99.55	109.76
4	A	1415	SER	O-C-N	5.13	129.92	122.43
5	B	387	LEU	CA-C-N	-5.13	112.52	122.06
5	B	387	LEU	C-N-CA	-5.13	112.52	122.06
6	C	144	ILE	CB-CA-C	-5.13	102.87	111.29
6	C	191	TYR	CA-C-O	-5.13	116.23	122.03
4	A	1156	PRO	N-CA-CB	-5.13	97.86	103.25
6	C	18	VAL	N-CA-CB	-5.13	102.77	111.23
4	A	180	LYS	CG-CD-CE	5.13	123.09	111.30
4	A	376	TYR	N-CA-CB	5.13	119.50	110.37
4	A	1373	ASP	CA-C-N	-5.13	114.10	120.56
4	A	1373	ASP	C-N-CA	-5.13	114.10	120.56
5	B	942	ARG	NH1-CZ-NH2	5.13	125.97	119.30
5	B	1045	SER	CA-CB-OG	-5.13	100.84	111.10
6	C	164	ALA	CA-C-N	-5.13	111.75	121.54
6	C	164	ALA	C-N-CA	-5.13	111.75	121.54
3	N	9	DC	OP1-P-O3'	5.13	123.38	108.00
4	A	96	ILE	N-CA-C	-5.13	104.90	110.23
6	C	87	PHE	CB-CA-C	-5.13	103.33	111.17
6	C	159	ALA	CA-C-N	-5.13	113.79	123.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	C	159	ALA	C-N-CA	-5.13	113.79	123.27
10	I	74	GLU	CB-CG-CD	5.13	121.32	112.60
4	A	714	PHE	N-CA-C	-5.12	105.77	111.36
4	A	734	GLU	N-CA-CB	-5.12	101.83	110.49
4	A	1218	GLN	N-CA-C	5.12	121.72	110.80
5	B	131	ASP	CB-CA-C	5.12	122.83	112.12
6	C	15	LYS	CB-CA-C	5.12	121.13	110.32
11	J	23	ASN	N-CA-C	-5.12	104.66	112.04
4	A	43	GLU	N-CA-CB	5.12	118.78	110.43
4	A	217	LYS	CD-CE-NZ	5.12	128.29	111.90
4	A	456	MET	N-CA-CB	5.12	119.15	110.49
4	A	1158	PRO	CB-CA-C	5.12	120.01	111.56
8	F	105	ALA	CA-C-O	5.12	126.35	120.97
10	I	90	GLN	CA-C-O	-5.12	115.68	121.72
4	A	538	ASP	CB-CA-C	-5.12	100.23	110.42
4	A	906	HIS	CB-CA-C	-5.12	101.66	110.72
5	B	1150	ARG	CA-C-O	-5.12	114.31	120.10
10	I	115	LYS	CB-CG-CD	5.12	123.08	111.30
4	A	172	PRO	CA-C-N	-5.12	114.30	121.72
4	A	172	PRO	C-N-CA	-5.12	114.30	121.72
4	A	1122	PRO	N-CA-C	5.12	123.01	112.47
4	A	1126	ALA	N-CA-CB	-5.12	103.78	111.25
5	B	430	ARG	O-C-N	-5.12	115.94	122.34
5	B	492	LEU	N-CA-C	-5.12	99.90	110.80
5	B	694	ASP	CB-CG-OD1	5.12	130.17	118.40
7	E	3	GLN	CB-CG-CD	5.12	121.30	112.60
4	A	125	ALA	O-C-N	-5.12	115.78	122.59
4	A	1154	TYR	CA-C-O	5.12	126.38	120.60
4	A	1422	ARG	N-CA-C	-5.12	105.40	113.02
5	B	435	THR	N-CA-C	5.12	116.94	111.36
5	B	744	HIS	O-C-N	5.12	127.20	121.32
5	B	843	GLN	N-CA-CB	5.12	118.74	110.40
7	E	113	GLN	CB-CA-C	-5.12	100.95	109.55
10	I	15	TYR	N-CA-C	5.12	121.12	109.81
12	K	37	LYS	N-CA-C	5.12	118.26	111.30
2	T	23	DC	C6-N1-C1'	5.12	127.37	119.70
4	A	816	HIS	N-CA-C	-5.12	105.20	111.75
4	A	1173	HIS	CA-C-O	-5.12	112.56	121.62
4	A	1292	PRO	O-C-N	5.12	129.55	122.64
5	B	933	SER	CA-CB-OG	5.12	121.33	111.10
5	B	1067	ARG	CB-CA-C	-5.12	101.25	110.35
4	A	7	SER	O-C-N	5.11	130.07	122.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	302	THR	CA-CB-CG2	5.11	119.19	110.50
4	A	773	LYS	CB-CG-CD	5.11	123.06	111.30
5	B	58	THR	N-CA-CB	5.11	119.13	110.49
1	R	6	G	C2'-C3'-O3'	-5.11	106.03	113.70
5	B	593	PRO	CB-CA-C	5.11	120.00	111.56
5	B	694	ASP	CA-CB-CG	5.11	117.71	112.60
6	C	57	VAL	CA-C-O	-5.11	115.43	120.85
11	J	65	PRO	CA-CB-CG	-5.11	94.79	104.50
4	A	236	LEU	CA-C-O	5.11	126.38	120.60
4	A	337	ARG	CA-C-O	-5.11	115.45	121.07
4	A	398	GLU	CA-C-O	-5.11	115.29	120.71
4	A	1038	THR	CB-CA-C	-5.11	100.95	110.56
5	B	331	LEU	CA-CB-CG	-5.11	98.41	116.30
5	B	1134	GLU	N-CA-CB	5.11	118.20	110.28
7	E	88	VAL	CA-C-O	5.11	127.17	120.78
4	A	664	THR	CA-CB-CG2	-5.11	101.82	110.50
4	A	704	ALA	CA-C-N	5.11	129.60	121.99
4	A	704	ALA	C-N-CA	5.11	129.60	121.99
4	A	943	LEU	CA-C-O	-5.11	115.09	120.55
4	A	984	LYS	CB-CA-C	-5.11	99.96	110.38
4	A	1020	CYS	CA-C-O	5.11	126.15	120.63
5	B	712	PRO	CA-CB-CG	-5.11	94.79	104.50
5	B	806	THR	CA-C-N	-5.11	112.00	120.68
5	B	806	THR	C-N-CA	-5.11	112.00	120.68
5	B	883	LEU	CA-C-N	-5.11	113.59	122.37
5	B	883	LEU	C-N-CA	-5.11	113.59	122.37
5	B	1046	PRO	O-C-N	5.11	129.53	122.64
6	C	106	GLU	CA-CB-CG	-5.11	103.89	114.10
6	C	208	GLU	CA-CB-CG	5.11	124.31	114.10
4	A	503	GLN	N-CA-C	5.11	119.86	113.43
4	A	948	VAL	O-C-N	5.11	127.57	121.80
5	B	204	ILE	N-CA-C	-5.11	98.72	109.34
5	B	761	HIS	N-CA-CB	-5.11	101.86	110.49
6	C	120	ILE	CB-CA-C	-5.11	103.72	111.69
6	C	224	GLN	CA-CB-CG	5.11	124.31	114.10
4	A	23	SER	O-C-N	5.10	128.94	121.54
4	A	94	GLY	CA-C-O	5.10	129.45	120.57
4	A	245	PRO	CA-C-N	5.10	129.07	120.29
4	A	245	PRO	C-N-CA	5.10	129.07	120.29
5	B	417	PHE	CB-CA-C	5.10	119.53	110.85
4	A	411	ASP	CA-CB-CG	5.10	117.70	112.60
4	A	1095	THR	N-CA-C	-5.10	99.93	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1152	ILE	CA-C-N	-5.10	113.35	122.07
4	A	1152	ILE	C-N-CA	-5.10	113.35	122.07
4	A	1281	ARG	CB-CA-C	-5.10	100.26	110.42
5	B	961	LEU	CB-CA-C	-5.10	100.27	110.42
5	B	976	ILE	CG1-CB-CG2	-5.10	95.39	110.70
5	B	1042	GLY	O-C-N	5.10	129.33	122.70
5	B	1097	HIS	CB-CA-C	-5.10	100.27	110.42
5	B	879	ARG	NE-CZ-NH1	5.10	126.60	121.50
4	A	640	GLN	CA-C-N	-5.10	113.47	120.46
4	A	640	GLN	C-N-CA	-5.10	113.47	120.46
4	A	936	LEU	CD1-CG-CD2	5.10	122.02	110.80
4	A	1386	ARG	O-C-N	-5.10	115.81	122.59
5	B	1107	ALA	N-CA-C	-5.10	99.94	110.80
8	F	106	PRO	N-CA-C	5.10	119.06	111.41
12	K	4	PRO	CA-C-N	-5.10	112.25	120.87
12	K	4	PRO	C-N-CA	-5.10	112.25	120.87
12	K	52	ASN	N-CA-CB	-5.10	102.45	110.46
1	R	1	A	OP2-P-O3'	5.10	123.30	108.00
4	A	1352	VAL	CA-CB-CG2	-5.10	101.73	110.40
5	B	130	VAL	N-CA-CB	-5.10	103.91	112.47
6	C	266	ASP	CA-C-N	5.10	129.30	120.58
6	C	266	ASP	C-N-CA	5.10	129.30	120.58
11	J	48	ARG	CA-C-N	-5.10	113.05	120.29
11	J	48	ARG	C-N-CA	-5.10	113.05	120.29
8	F	155	LEU	N-CA-C	5.10	125.27	111.00
4	A	1206	ASP	CA-C-N	5.09	130.30	121.64
4	A	1206	ASP	C-N-CA	5.09	130.30	121.64
4	A	1378	GLN	CA-C-N	-5.09	111.15	122.00
4	A	1378	GLN	C-N-CA	-5.09	111.15	122.00
6	C	76	ASP	CB-CA-C	5.09	120.56	110.42
7	E	159	ASP	N-CA-CB	-5.09	102.87	110.10
8	F	78	GLN	O-C-N	-5.09	116.92	122.67
4	A	145	LYS	CB-CG-CD	5.09	123.01	111.30
4	A	931	GLU	CB-CA-C	-5.09	100.29	110.42
5	B	552	MET	CA-C-O	5.09	123.72	118.73
5	B	983	ARG	O-C-N	5.09	127.85	121.84
8	F	110	ASP	CB-CA-C	5.09	118.31	110.62
9	H	121	LEU	CA-CB-CG	-5.09	98.48	116.30
2	T	16	DC	OP1-P-O3'	5.09	123.27	108.00
4	A	498	ARG	CA-C-N	-5.09	113.82	120.44
4	A	498	ARG	C-N-CA	-5.09	113.82	120.44
5	B	209	GLU	CA-C-O	-5.09	114.85	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	E	151	PRO	N-CA-C	-5.09	101.98	112.47
4	A	77	CYS	CA-C-N	5.09	125.24	119.90
4	A	77	CYS	C-N-CA	5.09	125.24	119.90
5	B	713	ALA	N-CA-CB	-5.09	101.89	110.49
4	A	697	ALA	CA-C-N	-5.09	112.60	122.06
4	A	697	ALA	C-N-CA	-5.09	112.60	122.06
4	A	1190	PRO	CA-C-N	-5.09	116.23	122.84
4	A	1190	PRO	C-N-CA	-5.09	116.23	122.84
4	A	1353	TYR	CA-C-N	-5.09	111.82	121.54
4	A	1353	TYR	C-N-CA	-5.09	111.82	121.54
4	A	1425	SER	CB-CA-C	5.09	120.54	110.42
5	B	751	VAL	CA-C-N	-5.09	111.82	121.54
5	B	751	VAL	C-N-CA	-5.09	111.82	121.54
4	A	133	LYS	CG-CD-CE	5.08	122.99	111.30
4	A	822	GLU	OE1-CD-OE2	5.08	135.10	122.90
4	A	1205	LYS	CA-C-O	5.08	127.31	121.47
4	A	1294	PRO	CB-CG-CD	-5.08	89.83	106.10
5	B	845	SER	O-C-N	-5.08	114.28	122.41
8	F	99	LEU	CA-C-O	-5.08	115.07	121.02
8	F	139	PRO	N-CA-CB	-5.08	96.83	102.17
4	A	1265	ASN	CA-C-O	5.08	126.23	120.89
4	A	1318	THR	CA-CB-CG2	-5.08	101.86	110.50
5	B	1016	ALA	O-C-N	5.08	130.44	122.61
6	C	129	ILE	N-CA-CB	-5.08	102.84	111.23
7	E	20	LYS	CB-CG-CD	5.08	122.98	111.30
7	E	138	ALA	CA-C-N	5.08	131.49	121.58
7	E	138	ALA	C-N-CA	5.08	131.49	121.58
11	J	64	ASN	CB-CA-C	-5.08	100.16	110.17
4	A	794	PRO	N-CA-CB	-5.08	97.92	103.25
4	A	1048	ASN	N-CA-C	-5.08	99.98	110.80
4	A	1330	ASN	CA-C-O	-5.08	113.25	120.51
5	B	40	GLU	CG-CD-OE2	5.08	130.08	118.40
5	B	181	LEU	CA-C-O	5.08	125.58	119.43
5	B	206	ASN	O-C-N	5.08	131.71	122.11
9	H	79	TRP	CA-CB-CG	-5.08	103.95	113.60
7	E	190	LEU	CA-CB-CG	-5.08	98.53	116.30
4	A	1290	LYS	O-C-N	5.08	129.62	122.77
5	B	709	ASP	CB-CG-OD1	5.08	130.08	118.40
5	B	1119	VAL	CA-CB-CG2	-5.08	101.77	110.40
7	E	170	LEU	CB-CG-CD1	5.08	125.93	110.70
10	I	27	PHE	N-CA-CB	5.08	117.48	110.17
4	A	13	THR	CB-CA-C	5.07	119.78	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	76	GLU	O-C-N	-5.07	115.84	122.59
4	A	275	SER	CA-CB-OG	5.07	121.25	111.10
4	A	317	LYS	CB-CG-CD	5.07	122.97	111.30
4	A	532	ARG	CG-CD-NE	5.07	123.16	112.00
5	B	792	MET	CB-CA-C	-5.07	100.32	110.42
5	B	883	LEU	CD1-CG-CD2	-5.07	99.64	110.80
5	B	934	LYS	CG-CD-CE	5.07	122.97	111.30
8	F	131	PRO	CA-N-CD	-5.07	104.90	112.00
4	A	902	LEU	CA-C-N	-5.07	111.85	121.54
4	A	902	LEU	C-N-CA	-5.07	111.85	121.54
5	B	121	ASN	N-CA-C	5.07	120.86	113.40
5	B	813	LYS	N-CA-CB	-5.07	104.28	111.84
5	B	916	THR	OG1-CB-CG2	5.07	119.44	109.30
5	B	104	GLU	CA-CB-CG	5.07	124.24	114.10
5	B	353	LYS	CB-CG-CD	5.07	122.96	111.30
5	B	625	LYS	N-CA-C	5.07	117.51	109.24
5	B	656	GLY	CA-C-N	-5.07	113.09	120.29
5	B	656	GLY	C-N-CA	-5.07	113.09	120.29
5	B	952	VAL	CA-C-N	-5.07	114.85	122.81
5	B	952	VAL	C-N-CA	-5.07	114.85	122.81
4	A	1355	VAL	O-C-N	5.07	127.43	121.96
5	B	94	LYS	CA-C-O	5.07	127.76	120.51
5	B	462	ALA	N-CA-C	5.07	119.54	112.90
5	B	678	GLU	OE1-CD-OE2	5.07	135.06	122.90
4	A	611	GLN	N-CA-C	5.07	117.60	108.48
4	A	1327	ILE	CA-C-N	5.07	131.09	122.37
4	A	1327	ILE	C-N-CA	5.07	131.09	122.37
5	B	191	LYS	N-CA-CB	5.07	117.36	110.01
5	B	995	ARG	CA-C-N	-5.07	111.86	121.54
5	B	995	ARG	C-N-CA	-5.07	111.86	121.54
6	C	137	LYS	CA-CB-CG	5.07	124.24	114.10
6	C	249	ASP	CA-C-N	-5.07	111.86	121.54
6	C	249	ASP	C-N-CA	-5.07	111.86	121.54
9	H	51	ALA	N-CA-C	5.07	121.59	110.80
4	A	450	LEU	CA-C-O	-5.07	114.25	122.20
5	B	756	ILE	CB-CA-C	5.07	120.58	111.36
6	C	95	CYS	N-CA-CB	-5.07	101.52	111.60
11	J	31	ASP	O-C-N	5.07	128.97	123.04
4	A	632	VAL	CA-CB-CG2	5.06	119.01	110.40
5	B	106	ASP	CA-C-O	5.06	129.12	122.44
4	A	1000	LEU	CB-CG-CD2	5.06	125.89	110.70
4	A	1142	THR	CA-CB-OG1	-5.06	102.00	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	133	LYS	CB-CG-CD	5.06	122.94	111.30
5	B	357	GLN	CB-CG-CD	5.06	121.21	112.60
5	B	1046	PRO	N-CD-CG	-5.06	95.61	103.20
6	C	12	GLU	CA-CB-CG	5.06	124.22	114.10
7	E	176	PRO	CA-CB-CG	-5.06	94.88	104.50
10	I	12	ASN	CB-CA-C	-5.06	100.35	110.42
4	A	320	ARG	NE-CZ-NH2	-5.06	114.64	119.20
4	A	872	GLY	CA-C-N	-5.06	116.02	123.00
4	A	872	GLY	C-N-CA	-5.06	116.02	123.00
6	C	125	MET	CG-SD-CE	5.06	112.03	100.90
6	C	215	GLU	CB-CG-CD	5.06	121.20	112.60
7	E	78	LEU	O-C-N	5.06	129.54	123.16
4	A	716	ASP	CA-C-O	-5.06	115.26	120.92
5	B	655	LYS	CD-CE-NZ	5.06	128.09	111.90
7	E	156	LEU	CB-CA-C	-5.06	100.29	110.30
4	A	233	TRP	O-C-N	5.06	128.29	122.17
12	K	82	ASP	CA-C-O	5.06	124.37	119.62
4	A	1168	GLU	CB-CG-CD	5.05	121.19	112.60
9	H	109	LYS	N-CA-CB	-5.05	101.95	110.49
12	K	84	LYS	CD-CE-NZ	5.05	128.08	111.90
4	A	881	GLN	N-CA-CB	5.05	118.63	111.05
5	B	742	GLU	CB-CG-CD	5.05	121.19	112.60
4	A	988	LEU	CA-CB-CG	-5.05	98.62	116.30
4	A	1321	GLY	O-C-N	-5.05	116.22	122.23
5	B	1051	THR	CB-CA-C	-5.05	99.43	109.79
9	H	37	LYS	N-CA-C	5.05	115.71	108.74
9	H	122	LEU	CA-C-N	-5.05	115.87	122.99
9	H	122	LEU	C-N-CA	-5.05	115.87	122.99
1	R	2	U	O3'-P-O5'	-5.05	96.42	104.00
4	A	491	VAL	O-C-N	5.05	126.86	121.10
4	A	584	ASN	N-CA-CB	5.05	118.70	110.77
4	A	838	GLN	CB-CG-CD	5.05	121.18	112.60
4	A	1369	ALA	N-CA-CB	-5.05	101.96	110.49
5	B	426	LYS	CB-CG-CD	5.05	122.91	111.30
5	B	757	PRO	CA-N-CD	-5.05	104.93	112.00
5	B	1181	GLU	CB-CA-C	-5.05	100.37	110.42
6	C	122	SER	N-CA-C	5.05	117.04	110.53
7	E	98	ILE	CA-C-O	-5.05	114.47	120.78
9	H	125	LEU	CD1-CG-CD2	5.05	121.91	110.80
4	A	408	ASP	O-C-N	5.05	129.30	122.59
4	A	690	VAL	N-CA-CB	5.05	119.56	111.23
6	C	134	ILE	CG1-CB-CG2	5.05	125.84	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	E	182	ASP	OD1-CG-OD2	-5.05	110.78	122.90
9	H	43	ASN	CB-CA-C	-5.05	100.37	110.42
10	I	22	ASN	N-CA-C	5.05	121.55	110.80
11	J	6	ARG	CB-CG-CD	5.05	122.91	111.30
4	A	838	GLN	CA-C-O	-5.05	113.29	120.51
5	B	415	GLN	CA-CB-CG	5.05	124.19	114.10
6	C	205	LYS	CA-CB-CG	5.05	124.19	114.10
4	A	932	GLU	CB-CG-CD	5.04	121.18	112.60
4	A	1020	CYS	N-CA-C	-5.04	105.23	111.33
5	B	762	ASN	CB-CA-C	5.04	118.42	109.89
5	B	859	TYR	CA-C-O	-5.04	114.88	120.38
4	A	785	PRO	CA-C-N	-5.04	114.73	122.60
4	A	785	PRO	C-N-CA	-5.04	114.73	122.60
4	A	1057	VAL	CA-CB-CG1	5.04	118.97	110.40
5	B	823	ALA	CA-C-O	-5.04	115.60	121.15
6	C	222	LYS	N-CA-CB	5.04	117.61	110.90
11	J	43	ARG	NH1-CZ-NH2	5.04	125.86	119.30
5	B	297	ILE	CA-C-N	-5.04	111.91	121.54
5	B	297	ILE	C-N-CA	-5.04	111.91	121.54
5	B	1074	ASN	CA-C-N	-5.04	111.53	121.41
5	B	1074	ASN	C-N-CA	-5.04	111.53	121.41
9	H	14	GLU	CB-CG-CD	5.04	121.17	112.60
12	K	26	LYS	CB-CG-CD	5.04	122.89	111.30
4	A	142	CYS	CA-C-N	-5.04	112.85	122.53
4	A	142	CYS	C-N-CA	-5.04	112.85	122.53
4	A	866	PHE	CB-CA-C	5.04	119.40	109.72
4	A	1062	GLU	OE1-CD-OE2	5.04	135.00	122.90
4	A	1403	GLU	CG-CD-OE1	5.04	129.99	118.40
4	A	545	GLN	CA-C-N	5.04	127.10	120.60
4	A	545	GLN	C-N-CA	5.04	127.10	120.60
4	A	784	LEU	CB-CG-CD1	5.04	125.81	110.70
4	A	969	GLN	N-CA-C	-5.04	106.05	113.61
4	A	1002	GLY	CA-C-O	5.04	129.34	120.57
4	A	1024	SER	O-C-N	5.04	127.46	122.12
4	A	1031	VAL	CG1-CB-CG2	-5.04	99.71	110.80
5	B	950	ASP	CB-CG-OD1	5.04	129.99	118.40
4	A	566	ILE	CG1-CB-CG2	-5.04	95.59	110.70
5	B	356	LEU	CA-CB-CG	-5.04	98.67	116.30
5	B	768	THR	N-CA-C	-5.04	106.64	112.89
6	C	151	GLN	N-CA-C	5.04	117.70	109.59
6	C	230	MET	CA-C-N	5.04	131.16	121.54
6	C	230	MET	C-N-CA	5.04	131.16	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	E	163	GLU	CG-CD-OE1	-5.04	106.82	118.40
8	F	142	SER	CA-C-N	-5.04	111.92	121.54
8	F	142	SER	C-N-CA	-5.04	111.92	121.54
11	J	22	LEU	CB-CA-C	-5.04	99.90	110.17
12	K	55	LYS	CA-CB-CG	5.04	124.17	114.10
4	A	423	ASP	CA-CB-CG	-5.03	107.57	112.60
4	A	1265	ASN	CA-CB-CG	-5.03	107.57	112.60
5	B	293	PRO	N-CA-C	5.03	119.10	110.95
5	B	307	ASP	CB-CA-C	5.03	118.64	111.74
6	C	91	HIS	N-CA-C	5.03	118.22	110.42
8	F	117	PRO	CA-C-N	-5.03	113.79	120.79
8	F	117	PRO	C-N-CA	-5.03	113.79	120.79
10	I	7	CYS	CB-CA-C	-5.03	102.05	109.90
4	A	1257	ASP	CA-C-N	5.03	127.44	120.29
4	A	1257	ASP	C-N-CA	5.03	127.44	120.29
5	B	613	VAL	N-CA-C	5.03	116.71	109.51
4	A	590	ARG	CA-CB-CG	5.03	124.16	114.10
4	A	805	LEU	N-CA-C	5.03	119.44	112.45
5	B	845	SER	CA-C-O	5.03	126.96	118.91
9	H	145	ARG	CD-NE-CZ	5.03	131.44	124.40
4	A	274	ILE	N-CA-CB	5.03	118.96	110.56
4	A	1330	ASN	CB-CG-ND2	5.03	123.94	116.40
6	C	77	ILE	CA-C-O	5.03	126.12	120.64
8	F	87	LYS	CA-CB-CG	5.03	124.16	114.10
4	A	326	ARG	NE-CZ-NH2	-5.03	114.67	119.20
4	A	1035	TYR	CA-C-N	-5.03	111.94	121.54
4	A	1035	TYR	C-N-CA	-5.03	111.94	121.54
4	A	1211	GLN	O-C-N	5.03	127.45	122.12
5	B	399	ASP	CA-C-O	-5.03	115.49	121.32
5	B	984	HIS	CA-C-O	5.03	127.70	120.51
7	E	97	VAL	N-CA-C	5.03	119.80	109.34
7	E	4	GLU	N-CA-CB	-5.03	102.91	111.20
4	A	786	HIS	CA-CB-CG	-5.02	108.78	113.80
4	A	1403	GLU	CB-CG-CD	5.02	121.14	112.60
5	B	1213	THR	CA-CB-CG2	-5.02	101.96	110.50
6	C	200	GLU	CA-C-O	-5.02	113.10	120.13
6	C	244	VAL	N-CA-C	5.02	119.79	109.34
9	H	106	GLU	CA-C-O	-5.02	115.56	120.98
8	F	151	LEU	N-CA-C	-5.02	102.85	110.28
4	A	246	VAL	CB-CA-C	-5.02	103.98	112.16
4	A	835	GLY	CA-C-N	-5.02	113.80	120.63
4	A	835	GLY	C-N-CA	-5.02	113.80	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1291	VAL	N-CA-C	5.02	119.72	108.88
4	A	1386	ARG	N-CA-C	5.02	121.49	110.80
5	B	531	GLN	CA-C-O	5.02	127.69	120.51
5	B	617	ARG	CA-C-N	5.02	129.65	122.72
5	B	617	ARG	C-N-CA	5.02	129.65	122.72
11	J	48	ARG	NH1-CZ-NH2	-5.02	112.77	119.30
4	A	1313	LEU	N-CA-C	-5.02	105.52	111.69
5	B	543	SER	O-C-N	5.02	128.82	122.65
5	B	1003	ALA	N-CA-CB	5.02	118.72	110.39
5	B	1030	LEU	N-CA-C	-5.02	100.11	110.80
10	I	30	ARG	CB-CA-C	5.02	118.85	111.17
4	A	117	GLU	CA-CB-CG	5.02	124.13	114.10
10	I	119	THR	N-CA-CB	5.02	117.90	110.53
4	A	593	GLU	CA-CB-CG	5.01	124.13	114.10
4	A	387	ARG	CB-CA-C	-5.01	103.18	110.95
5	B	300	HIS	CB-CG-ND1	-5.01	115.18	122.70
7	E	59	SER	CA-C-N	5.01	130.09	120.97
7	E	59	SER	C-N-CA	5.01	130.09	120.97
4	A	293	GLU	CA-C-N	-5.01	113.87	122.79
4	A	293	GLU	C-N-CA	-5.01	113.87	122.79
4	A	775	ILE	CA-C-O	-5.01	114.89	120.95
4	A	1393	ASN	N-CA-CB	5.01	118.96	110.49
5	B	36	ALA	N-CA-C	5.01	119.64	111.37
7	E	171	LYS	CA-C-N	5.01	128.34	120.82
7	E	171	LYS	C-N-CA	5.01	128.34	120.82
5	B	358	LYS	CB-CG-CD	5.01	122.82	111.30
7	E	40	GLU	CA-C-O	5.01	127.67	120.51
9	H	83	GLN	N-CA-C	-5.01	100.13	110.80
4	A	1005	GLU	N-CA-C	5.01	121.47	110.80
5	B	26	THR	CA-CB-OG1	-5.01	102.09	109.60
5	B	1089	PRO	CA-N-CD	-5.01	104.99	112.00
7	E	58	MET	N-CA-C	-5.01	100.13	110.80
12	K	32	VAL	CA-CB-CG2	-5.01	101.89	110.40
4	A	186	LYS	N-CA-CB	5.01	119.01	110.50
4	A	1373	ASP	OD1-CG-OD2	-5.01	110.89	122.90
5	B	25	ILE	CG1-CB-CG2	-5.01	95.68	110.70
5	B	487	THR	CA-C-O	-5.01	113.25	120.11
7	E	120	ALA	N-CA-CB	-5.01	103.17	110.53
9	H	141	TYR	N-CA-CB	5.00	117.15	109.94
4	A	567	LYS	CA-CB-CG	-5.00	104.09	114.10
5	B	37	PHE	N-CA-CB	-5.00	102.03	110.49
5	B	69	LEU	O-C-N	5.00	128.92	123.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	680	THR	N-CA-CB	5.00	118.55	110.85
5	B	682	SER	N-CA-CB	5.00	118.04	110.28
5	B	1089	PRO	CB-CA-C	-5.00	103.47	110.63
7	E	33	GLU	CA-C-N	5.00	131.10	121.54
7	E	33	GLU	C-N-CA	5.00	131.10	121.54
5	B	313	MET	O-C-N	5.00	127.42	122.12
5	B	1008	PRO	CA-CB-CG	-5.00	95.00	104.50

All (9) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	T	21	DC	C3'
4	A	317	LYS	CA
4	A	324	SER	CA
5	B	636	PRO	CA
5	B	637	LEU	CA
5	B	880	THR	CA
5	B	984	HIS	CA
6	C	41	ILE	CB
10	I	119	THR	CA

All (321) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
4	A	10	PRO	Peptide
4	A	1035	TYR	Peptide
4	A	1038	THR	Mainchain
4	A	1042	PHE	Sidechain
4	A	1054	LEU	Mainchain
4	A	107	CYS	Peptide,Mainchain
4	A	1107	VAL	Mainchain
4	A	1109	LYS	Mainchain
4	A	1113	THR	Mainchain
4	A	1140	HIS	Sidechain
4	A	1153	TYR	Mainchain
4	A	1172	LEU	Mainchain
4	A	1222	ASN	Peptide
4	A	1227	ILE	Mainchain
4	A	1237	ILE	Mainchain
4	A	1279	ILE	Mainchain
4	A	1282	VAL	Mainchain
4	A	1284	MET	Mainchain

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Mol	Chain	Res	Type	Group
4	A	1287	TYR	Peptide
4	A	1293	SER	Mainchain
4	A	1302	PRO	Peptide
4	A	1313	LEU	Peptide
4	A	1320	PRO	Mainchain
4	A	1324	PRO	Mainchain
4	A	1331	SER	Mainchain
4	A	135	PHE	Sidechain
4	A	1365	TYR	Sidechain
4	A	1367	HIS	Sidechain
4	A	1384	VAL	Mainchain
4	A	1391	ARG	Mainchain
4	A	1394	THR	Peptide
4	A	1418	LEU	Mainchain
4	A	1441	PHE	Mainchain
4	A	172	PRO	Mainchain
4	A	203	SER	Peptide,Mainchain
4	A	23	SER	Mainchain
4	A	230	ARG	Mainchain
4	A	249	SER	Peptide,Mainchain
4	A	252	PHE	Peptide
4	A	253	ASN	Mainchain
4	A	254	GLU	Peptide,Mainchain
4	A	256	GLN	Peptide,Mainchain
4	A	257	ARG	Peptide,Mainchain
4	A	258	GLY	Peptide,Mainchain
4	A	260	ASP	Mainchain
4	A	3	GLY	Mainchain
4	A	301	ALA	Mainchain
4	A	303	TYR	Sidechain
4	A	308	ILE	Peptide,Mainchain
4	A	315	LEU	Peptide,Mainchain
4	A	317	LYS	Peptide,Mainchain
4	A	319	GLY	Peptide,Mainchain
4	A	321	PRO	Peptide
4	A	322	VAL	Mainchain
4	A	323	LYS	Peptide,Mainchain
4	A	324	SER	Peptide,Mainchain
4	A	33	ALA	Peptide
4	A	349	ALA	Mainchain
4	A	404	TYR	Sidechain
4	A	406	ILE	Mainchain

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Mol	Chain	Res	Type	Group
4	A	42	ASP	Mainchain
4	A	420	ARG	Mainchain
4	A	434	ARG	Mainchain
4	A	482	PHE	Mainchain
4	A	49	LYS	Peptide,Mainchain
4	A	520	CYS	Mainchain
4	A	531	ILE	Mainchain
4	A	537	ARG	Mainchain
4	A	54	ASN	Peptide
4	A	56	PRO	Peptide,Mainchain
4	A	562	THR	Mainchain
4	A	564	ALA	Mainchain
4	A	568	PRO	Mainchain
4	A	594	GLY	Peptide,Mainchain
4	A	595	THR	Peptide,Mainchain
4	A	6	TYR	Peptide
4	A	601	LYS	Mainchain
4	A	613	ILE	Mainchain
4	A	614	PHE	Sidechain
4	A	627	GLY	Peptide,Mainchain
4	A	661	GLY	Mainchain
4	A	667	GLY	Mainchain
4	A	68	GLN	Peptide,Mainchain
4	A	690	VAL	Mainchain
4	A	753	GLY	Peptide,Mainchain
4	A	776	ALA	Mainchain
4	A	793	SER	Mainchain
4	A	806	ARG	Mainchain
4	A	877	HIS	Mainchain
4	A	884	ASP	Peptide
4	A	895	LYS	Mainchain
4	A	903	ASN	Peptide
4	A	914	GLU	Mainchain
4	A	923	LEU	Mainchain
4	A	933	TYR	Sidechain
4	A	942	PHE	Mainchain
4	A	949	ASP	Mainchain
4	A	978	PRO	Mainchain
4	A	986	ILE	Mainchain
4	A	988	LEU	Mainchain
4	A	997	LEU	Mainchain
5	B	1001	PHE	Sidechain

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Mol	Chain	Res	Type	Group
5	B	1007	VAL	Mainchain
5	B	1017	ILE	Mainchain
5	B	102	VAL	Mainchain
5	B	1038	SER	Mainchain
5	B	1048	THR	Mainchain
5	B	1049	ASP	Mainchain
5	B	1050	ILE	Mainchain
5	B	1060	ARG	Mainchain
5	B	1076	HIS	Sidechain
5	B	1086	PHE	Sidechain
5	B	1088	GLY	Mainchain
5	B	1092	TYR	Mainchain
5	B	110	HIS	Sidechain,Mainchain
5	B	1103	ILE	Mainchain
5	B	1114	LEU	Mainchain
5	B	1131	GLY	Mainchain
5	B	1140	ALA	Mainchain
5	B	1166	CYS	Peptide
5	B	1217	TYR	Mainchain
5	B	122	LEU	Mainchain
5	B	130	VAL	Mainchain
5	B	169	ARG	Mainchain
5	B	180	TYR	Sidechain
5	B	20	ASP	Mainchain
5	B	200	GLY	Mainchain
5	B	203	PHE	Mainchain
5	B	222	ILE	Peptide,Mainchain
5	B	228	LYS	Mainchain
5	B	23	ALA	Mainchain
5	B	230	ALA	Mainchain
5	B	235	SER	Mainchain
5	B	251	ILE	Peptide
5	B	273	LEU	Mainchain
5	B	274	PRO	Peptide,Mainchain
5	B	300	HIS	Sidechain
5	B	303	TYR	Sidechain
5	B	305	VAL	Mainchain
5	B	315	LYS	Mainchain
5	B	322	PHE	Sidechain,Peptide,Mainchain
5	B	326	ASP	Peptide
5	B	330	ALA	Mainchain
5	B	332	ASP	Mainchain

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Mol	Chain	Res	Type	Group
5	B	334	ILE	Peptide,Mainchain
5	B	348	ARG	Mainchain
5	B	360	PHE	Sidechain
5	B	392	ARG	Mainchain
5	B	409	ALA	Mainchain
5	B	447	ALA	Peptide,Mainchain
5	B	462	ALA	Mainchain
5	B	466	TRP	Mainchain
5	B	470	LYS	Mainchain
5	B	471	LYS	Peptide,Mainchain
5	B	472	ALA	Peptide
5	B	473	MET	Mainchain
5	B	477	ALA	Mainchain
5	B	483	LEU	Peptide,Mainchain
5	B	494	HIS	Sidechain
5	B	497	ARG	Sidechain,Mainchain
5	B	498	THR	Mainchain
5	B	51	PHE	Sidechain
5	B	517	THR	Mainchain
5	B	565	PRO	Mainchain
5	B	576	ASP	Peptide
5	B	580	VAL	Mainchain
5	B	642	ASP	Peptide
5	B	643	ASP	Peptide
5	B	644	GLU	Peptide
5	B	65	GLU	Mainchain
5	B	662	MET	Peptide
5	B	706	GLN	Mainchain
5	B	708	GLU	Peptide
5	B	731	VAL	Peptide,Mainchain
5	B	740	HIS	Sidechain,Mainchain
5	B	756	ILE	Mainchain
5	B	758	PHE	Mainchain
5	B	761	HIS	Sidechain
5	B	797	TYR	Sidechain
5	B	798	TYR	Peptide,Mainchain
5	B	799	PRO	Mainchain
5	B	818	PRO	Mainchain
5	B	819	ALA	Mainchain
5	B	823	ALA	Mainchain
5	B	850	LEU	Mainchain
5	B	856	PHE	Mainchain

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Mol	Chain	Res	Type	Group
5	B	858	SER	Mainchain
5	B	864	LYS	Mainchain
5	B	866	TYR	Peptide
5	B	877	PRO	Peptide
5	B	879	ARG	Peptide,Mainchain
5	B	882	THR	Mainchain
5	B	883	LEU	Peptide,Mainchain
5	B	884	ARG	Peptide
5	B	899	ILE	Mainchain
5	B	92	PHE	Sidechain
5	B	944	THR	Mainchain
5	B	981	ALA	Mainchain
5	B	982	SER	Mainchain
5	B	984	HIS	Sidechain
6	C	134	ILE	Mainchain
6	C	155	LEU	Mainchain
6	C	159	ALA	Mainchain
6	C	191	TYR	Sidechain
6	C	201	TRP	Mainchain
6	C	212	PRO	Mainchain
6	C	267	GLN	Peptide,Mainchain
6	C	41	ILE	Mainchain
6	C	42	PRO	Mainchain
6	C	7	GLN	Mainchain
7	E	117	THR	Mainchain
7	E	127	ILE	Mainchain
7	E	131	THR	Peptide,Mainchain
7	E	132	ILE	Peptide,Mainchain
7	E	137	GLU	Mainchain
7	E	158	SER	Mainchain
7	E	177	ARG	Mainchain
7	E	187	TYR	Sidechain
7	E	198	ILE	Mainchain
7	E	211	TYR	Sidechain
7	E	214	CYS	Peptide
7	E	26	ARG	Mainchain
7	E	72	PHE	Mainchain
7	E	80	VAL	Mainchain
7	E	85	GLU	Mainchain
8	F	130	ILE	Mainchain
8	F	138	LEU	Mainchain
8	F	142	SER	Peptide

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Mol	Chain	Res	Type	Group
8	F	143	PHE	Sidechain
8	F	75	PRO	Mainchain
9	H	100	THR	Mainchain
9	H	109	LYS	Peptide,Mainchain
9	H	129	TYR	Peptide,Mainchain
9	H	135	LEU	Mainchain
9	H	139	ASN	Peptide,Mainchain
9	H	20	TYR	Mainchain
9	H	37	LYS	Peptide
9	H	62	SER	Peptide
9	H	80	ARG	Mainchain
9	H	81	PRO	Mainchain
9	H	84	ALA	Peptide
9	H	85	GLY	Peptide,Mainchain
10	I	109	ILE	Mainchain
10	I	110	PHE	Sidechain
10	I	119	THR	Peptide
10	I	16	PRO	Peptide,Mainchain
10	I	20	LYS	Peptide
10	I	32	CYS	Peptide,Mainchain
10	I	4	PHE	Sidechain,Peptide,Mainchain
10	I	41	PRO	Mainchain
10	I	61	ASP	Mainchain
10	I	77	LYS	Peptide,Mainchain
10	I	78	CYS	Peptide,Mainchain
10	I	80	SER	Mainchain
11	J	53	HIS	Mainchain
11	J	54	VAL	Peptide
12	K	10	PHE	Sidechain
12	K	109	TRP	Mainchain
12	K	15	GLY	Peptide
12	K	16	GLU	Peptide,Mainchain
12	K	4	PRO	Peptide
12	K	60	ALA	Mainchain
12	K	80	GLY	Mainchain
12	K	99	GLY	Mainchain
13	L	50	ASP	Peptide
13	L	56	LEU	Mainchain
13	L	57	LEU	Mainchain
13	L	64	LEU	Peptide
13	L	65	VAL	Peptide
1	R	10	A	Sidechain

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Mol	Chain	Res	Type	Group
2	T	21	DC	Sidechain
2	T	23	DC	Sidechain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	R	217	0	110	34	0
2	T	566	0	314	83	4
3	N	284	0	162	44	0
4	A	10969	0	11061	3557	0
5	B	8792	0	8821	2445	0
6	C	2095	0	2051	500	0
7	E	1752	0	1776	548	0
8	F	679	0	701	204	0
9	H	1068	0	1040	390	0
10	I	971	0	929	314	0
11	J	532	0	543	168	0
12	K	919	0	929	268	0
13	L	363	0	387	100	0
14	A	2	0	0	0	0
14	B	1	0	0	0	0
14	C	1	0	0	0	0
14	I	2	0	0	0	0
14	J	1	0	0	0	0
14	L	1	0	0	0	0
15	A	2	0	0	0	0
16	B	31	0	12	7	0
All	All	29248	0	28836	8229	4

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 142.

All (8229) 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)
3:N:12:DT:P	7:E:117:THR:HG21	1.32	1.67
4:A:128:ILE:CB	4:A:128:ILE:CA	1.74	1.66
5:B:422:LYS:CB	5:B:422:LYS:CG	1.74	1.65
5:B:866:TYR:CG	5:B:866:TYR:CB	1.80	1.65
4:A:37:PHE:CB	4:A:37:PHE:CG	1.74	1.65
5:B:1098:MET:CB	5:B:1098:MET:CG	1.75	1.65
7:E:45:LYS:CD	7:E:45:LYS:CE	1.75	1.65
4:A:42:ASP:CA	4:A:42:ASP:CB	1.75	1.64
11:J:55:ASP:CB	11:J:55:ASP:CA	1.75	1.64
4:A:461:LYS:CE	4:A:461:LYS:CD	1.75	1.64
4:A:315:LEU:CA	4:A:315:LEU:CB	1.76	1.64
4:A:929:LEU:CD2	4:A:929:LEU:CG	1.75	1.64
4:A:1161:THR:CB	4:A:1161:THR:CA	1.75	1.64
7:E:52:ARG:CA	7:E:52:ARG:CB	1.75	1.64
4:A:1350:LYS:CB	4:A:1350:LYS:CG	1.76	1.64
5:B:1223:ASP:CA	5:B:1223:ASP:CB	1.74	1.64
4:A:546:VAL:CG1	4:A:546:VAL:CB	1.75	1.64
4:A:593:GLU:CB	4:A:593:GLU:CG	1.76	1.64
5:B:1120:GLU:CB	5:B:1120:GLU:CG	1.76	1.64
9:H:84:ALA:CA	9:H:84:ALA:CB	1.76	1.64
4:A:1125:ALA:CB	4:A:1125:ALA:CA	1.75	1.63
5:B:1036:ALA:CA	5:B:1036:ALA:CB	1.76	1.63
4:A:257:ARG:CA	4:A:257:ARG:CB	1.74	1.63
5:B:241:ARG:CG	5:B:241:ARG:CB	1.75	1.63
5:B:825:VAL:CB	5:B:825:VAL:CG1	1.76	1.63
7:E:90:VAL:CG1	7:E:90:VAL:CB	1.77	1.63
12:K:57:LEU:CD2	12:K:57:LEU:CG	1.75	1.63
4:A:212:LYS:CG	4:A:212:LYS:CD	1.75	1.63
5:B:471:LYS:CD	5:B:471:LYS:CE	1.77	1.63
5:B:667:GLN:CA	5:B:667:GLN:CB	1.77	1.63
7:E:81:GLU:CB	7:E:81:GLU:CG	1.75	1.63
10:I:29:CYS:CB	10:I:29:CYS:CA	1.77	1.63
4:A:315:LEU:CB	4:A:315:LEU:CG	1.75	1.63
4:A:470:LEU:CD2	4:A:470:LEU:CG	1.75	1.63
4:A:162:VAL:CB	4:A:162:VAL:CG1	1.74	1.62
9:H:89:LEU:CG	9:H:89:LEU:CD1	1.76	1.62
4:A:65:LEU:CG	4:A:65:LEU:CB	1.74	1.62
4:A:1026:LEU:CD2	4:A:1026:LEU:CG	1.75	1.62
4:A:1438:THR:CB	4:A:1438:THR:CG2	1.75	1.62
5:B:28:GLU:CG	5:B:28:GLU:CB	1.74	1.62
5:B:261:ARG:CG	5:B:261:ARG:CD	1.76	1.62
4:A:133:LYS:CD	4:A:133:LYS:CE	1.76	1.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:205:LYS:CD	6:C:205:LYS:CE	1.76	1.62
10:I:36:GLU:CB	10:I:36:GLU:CG	1.77	1.62
4:A:724:GLU:CB	4:A:724:GLU:CG	1.74	1.62
7:E:191:LYS:CB	7:E:191:LYS:CG	1.75	1.62
6:C:9:LYS:CG	6:C:9:LYS:CD	1.75	1.62
8:F:155:LEU:CD2	8:F:155:LEU:CG	1.78	1.62
4:A:524:VAL:CG1	4:A:524:VAL:CB	1.76	1.61
7:E:201:LYS:CD	7:E:201:LYS:CE	1.76	1.61
9:H:135:LEU:CD2	9:H:135:LEU:CG	1.75	1.61
12:K:47:ARG:CD	12:K:47:ARG:CG	1.75	1.61
4:A:317:LYS:CA	4:A:317:LYS:CB	1.75	1.61
4:A:150:THR:CB	4:A:150:THR:CG2	1.75	1.61
4:A:368:LYS:CD	4:A:368:LYS:CE	1.79	1.61
4:A:1445:ILE:CA	4:A:1445:ILE:CB	1.76	1.61
5:B:249:ARG:CB	5:B:249:ARG:CG	1.74	1.61
5:B:733:HIS:CA	5:B:733:HIS:CB	1.76	1.61
9:H:34:ASP:CA	9:H:34:ASP:CB	1.76	1.61
9:H:132:LEU:CG	9:H:132:LEU:CB	1.75	1.61
11:J:57:ILE:CB	11:J:57:ILE:CG2	1.77	1.61
4:A:274:ILE:CB	4:A:274:ILE:CG2	1.74	1.61
4:A:403:LYS:CD	4:A:403:LYS:CE	1.75	1.61
4:A:1221:LYS:CG	4:A:1221:LYS:CD	1.78	1.61
7:E:98:ILE:CA	7:E:98:ILE:CB	1.75	1.61
4:A:176:LYS:CG	4:A:176:LYS:CD	1.74	1.61
4:A:607:ILE:CG2	4:A:607:ILE:CB	1.76	1.61
4:A:905:ASP:CB	4:A:905:ASP:CA	1.78	1.61
4:A:962:ARG:CG	4:A:962:ARG:CD	1.77	1.61
4:A:1130:GLN:CB	4:A:1130:GLN:CG	1.77	1.61
5:B:261:ARG:CG	5:B:261:ARG:CB	1.76	1.61
5:B:532:ALA:CA	5:B:532:ALA:CB	1.78	1.61
10:I:116:ASN:CB	10:I:116:ASN:CA	1.77	1.61
4:A:337:ARG:CG	4:A:337:ARG:CD	1.79	1.60
4:A:393:ARG:CG	4:A:393:ARG:CD	1.75	1.60
5:B:305:VAL:CG1	5:B:305:VAL:CB	1.79	1.60
7:E:162:ARG:CB	7:E:162:ARG:CG	1.78	1.60
4:A:664:THR:CB	4:A:664:THR:CG2	1.80	1.60
4:A:877:HIS:CA	4:A:877:HIS:CB	1.77	1.60
5:B:193:LYS:CD	5:B:193:LYS:CE	1.76	1.60
10:I:77:LYS:CE	10:I:77:LYS:CD	1.76	1.60
10:I:115:LYS:CE	10:I:115:LYS:CD	1.76	1.60
4:A:249:SER:CA	4:A:249:SER:C	1.74	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:K:34:THR:CB	12:K:34:THR:CG2	1.77	1.60
12:K:53:ASP:CB	12:K:53:ASP:CG	1.74	1.60
4:A:98:LYS:CG	4:A:98:LYS:CD	1.78	1.60
4:A:317:LYS:CB	4:A:317:LYS:CG	1.77	1.60
5:B:94:LYS:CG	5:B:94:LYS:CD	1.74	1.60
4:A:250:ILE:CB	4:A:250:ILE:CA	1.78	1.60
4:A:284:ALA:CA	4:A:284:ALA:CB	1.77	1.60
5:B:219:ALA:CA	5:B:219:ALA:CB	1.77	1.60
5:B:715:ALA:CA	5:B:715:ALA:CB	1.74	1.60
5:B:1188:LYS:CG	5:B:1188:LYS:CD	1.77	1.60
6:C:9:LYS:CD	6:C:9:LYS:CE	1.74	1.60
8:F:129:LYS:CB	8:F:129:LYS:CG	1.76	1.60
9:H:109:LYS:CD	9:H:109:LYS:CE	1.78	1.60
4:A:65:LEU:CB	4:A:65:LEU:CA	1.76	1.59
4:A:88:LYS:C	4:A:88:LYS:CA	1.75	1.59
4:A:321:PRO:CA	4:A:321:PRO:C	1.75	1.59
4:A:387:ARG:CG	4:A:387:ARG:CD	1.79	1.59
4:A:596:THR:CA	4:A:596:THR:CB	1.77	1.59
4:A:658:LEU:CG	4:A:658:LEU:CD1	1.77	1.59
4:A:720:ARG:CB	4:A:720:ARG:CG	1.76	1.59
5:B:241:ARG:CG	5:B:241:ARG:CD	1.80	1.59
5:B:468:GLU:CG	5:B:468:GLU:CD	1.74	1.59
6:C:78:GLU:CB	6:C:78:GLU:CG	1.77	1.59
7:E:191:LYS:CG	7:E:191:LYS:CD	1.75	1.59
9:H:109:LYS:CA	9:H:109:LYS:C	1.76	1.59
5:B:436:VAL:C	5:B:436:VAL:CA	1.76	1.59
6:C:84:ARG:CG	6:C:84:ARG:CB	1.74	1.59
9:H:125:LEU:CD1	9:H:125:LEU:CG	1.78	1.59
9:H:132:LEU:CG	9:H:132:LEU:CD1	1.76	1.59
13:L:64:LEU:CD2	13:L:64:LEU:CG	1.76	1.59
4:A:962:ARG:CG	4:A:962:ARG:CB	1.78	1.59
4:A:1205:LYS:CB	4:A:1205:LYS:CG	1.75	1.59
5:B:734:HIS:CA	5:B:734:HIS:CB	1.75	1.59
5:B:1189:ILE:CB	5:B:1189:ILE:CG2	1.80	1.59
7:E:190:LEU:CD2	7:E:190:LEU:CG	1.79	1.59
4:A:101:LYS:CG	4:A:101:LYS:CD	1.79	1.59
4:A:1350:LYS:CG	4:A:1350:LYS:CD	1.80	1.59
5:B:164:LYS:C	5:B:164:LYS:CA	1.75	1.59
5:B:622:LYS:CE	5:B:622:LYS:CD	1.81	1.59
5:B:646:LEU:CD2	5:B:646:LEU:CG	1.77	1.59
10:I:77:LYS:CA	10:I:77:LYS:CB	1.80	1.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:593:GLU:CG	4:A:593:GLU:CD	1.75	1.59
4:A:712:GLU:CG	4:A:712:GLU:CD	1.74	1.59
4:A:945:GLU:CB	4:A:945:GLU:CG	1.79	1.59
4:A:981:LEU:CG	4:A:981:LEU:CD1	1.76	1.59
4:A:1231:ASP:CB	4:A:1231:ASP:CG	1.75	1.59
5:B:59:LEU:CD2	5:B:59:LEU:CG	1.76	1.59
5:B:368:GLU:CG	5:B:368:GLU:CB	1.75	1.59
7:E:159:ASP:CA	7:E:159:ASP:CB	1.75	1.59
8:F:101:ILE:CB	8:F:101:ILE:CG2	1.77	1.59
13:L:37:LYS:CD	13:L:37:LYS:CE	1.78	1.59
4:A:34:LYS:CB	4:A:34:LYS:CG	1.76	1.58
4:A:36:ARG:CB	4:A:36:ARG:CG	1.78	1.58
4:A:934:LYS:CG	4:A:934:LYS:CD	1.81	1.58
4:A:1337:GLU:CG	4:A:1337:GLU:CD	1.74	1.58
5:B:354:ASP:CB	5:B:354:ASP:CG	1.74	1.58
6:C:137:LYS:CD	6:C:137:LYS:CG	1.75	1.58
4:A:65:LEU:CG	4:A:65:LEU:CD2	1.81	1.58
4:A:217:LYS:CB	4:A:217:LYS:CG	1.80	1.58
4:A:1013:ASP:CB	4:A:1013:ASP:CG	1.77	1.58
4:A:1385:THR:CB	4:A:1385:THR:CG2	1.74	1.58
5:B:709:ASP:CA	5:B:709:ASP:C	1.75	1.58
5:B:868:MET:CB	5:B:868:MET:CG	1.80	1.58
5:B:883:LEU:CA	5:B:883:LEU:CB	1.81	1.58
5:B:951:GLN:CG	5:B:951:GLN:CD	1.74	1.58
7:E:4:GLU:CG	7:E:4:GLU:CD	1.76	1.58
9:H:146:ARG:CG	9:H:146:ARG:CB	1.78	1.58
13:L:50:ASP:CA	13:L:50:ASP:C	1.75	1.58
4:A:66:LYS:CD	4:A:66:LYS:CG	1.78	1.58
4:A:66:LYS:CD	4:A:66:LYS:CE	1.78	1.58
4:A:1118:VAL:CG1	4:A:1118:VAL:CB	1.75	1.58
5:B:426:LYS:CD	5:B:426:LYS:CE	1.80	1.58
5:B:567:GLU:CG	5:B:567:GLU:CD	1.75	1.58
5:B:910:VAL:CG1	5:B:910:VAL:CB	1.74	1.58
9:H:51:ALA:CA	9:H:51:ALA:CB	1.75	1.58
13:L:42:ARG:CB	13:L:42:ARG:CG	1.76	1.58
4:A:764:CYS:C	4:A:764:CYS:CA	1.75	1.58
4:A:833:GLU:CB	4:A:833:GLU:CG	1.76	1.58
5:B:188:ASP:CB	5:B:188:ASP:CG	1.76	1.58
5:B:622:LYS:CD	5:B:622:LYS:CG	1.80	1.58
5:B:892:LYS:CG	5:B:892:LYS:CD	1.74	1.58
6:C:208:GLU:CG	6:C:208:GLU:CD	1.75	1.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:158:SER:CA	7:E:158:SER:CB	1.75	1.58
12:K:57:LEU:CG	12:K:57:LEU:CD1	1.81	1.58
13:L:49:LYS:CD	13:L:49:LYS:CE	1.75	1.58
4:A:372:LYS:CD	4:A:372:LYS:CG	1.81	1.58
5:B:655:LYS:CE	5:B:655:LYS:CD	1.79	1.58
5:B:1193:GLN:CG	5:B:1193:GLN:CD	1.75	1.58
5:B:1222:ARG:CG	5:B:1222:ARG:CD	1.79	1.58
9:H:45:GLU:CD	9:H:45:GLU:CG	1.77	1.58
4:A:327:ALA:CA	4:A:327:ALA:CB	1.81	1.57
4:A:644:LYS:CD	4:A:644:LYS:CE	1.81	1.57
4:A:838:GLN:CB	4:A:838:GLN:CG	1.78	1.57
4:A:880:LYS:CG	4:A:880:LYS:CB	1.76	1.57
4:A:938:LYS:CD	4:A:938:LYS:CE	1.76	1.57
4:A:1093:LYS:CG	4:A:1093:LYS:CB	1.75	1.57
4:A:1300:LYS:CG	4:A:1300:LYS:CD	1.76	1.57
5:B:315:LYS:CB	5:B:315:LYS:CA	1.76	1.57
5:B:733:HIS:CA	5:B:733:HIS:C	1.75	1.57
5:B:1136:ASP:CB	5:B:1136:ASP:CG	1.76	1.57
13:L:68:GLU:CG	13:L:68:GLU:CD	1.76	1.57
4:A:316:GLN:C	4:A:316:GLN:CA	1.76	1.57
4:A:1102:LYS:CG	4:A:1102:LYS:CD	1.76	1.57
4:A:1300:LYS:CD	4:A:1300:LYS:CE	1.79	1.57
5:B:646:LEU:C	5:B:646:LEU:CA	1.76	1.57
5:B:883:LEU:CD2	5:B:883:LEU:CG	1.78	1.57
6:C:205:LYS:CE	6:C:205:LYS:NZ	1.67	1.57
9:H:110:ASP:CG	9:H:110:ASP:CB	1.77	1.57
10:I:52:ILE:CB	10:I:52:ILE:CA	1.78	1.57
13:L:42:ARG:CG	13:L:42:ARG:CD	1.80	1.57
5:B:275:TYR:CG	5:B:275:TYR:CB	1.82	1.57
5:B:786:ASN:CB	5:B:786:ASN:CG	1.78	1.57
5:B:881:ASN:CG	5:B:881:ASN:CB	1.75	1.57
6:C:136:ASP:CA	6:C:136:ASP:C	1.75	1.57
6:C:154:LYS:CG	6:C:154:LYS:CD	1.82	1.57
6:C:205:LYS:CD	6:C:205:LYS:CG	1.81	1.57
9:H:114:VAL:CB	9:H:114:VAL:CG1	1.77	1.57
13:L:44:ASP:CB	13:L:44:ASP:CG	1.78	1.57
13:L:61:THR:CB	13:L:61:THR:CG2	1.77	1.57
4:A:57:ARG:CB	4:A:57:ARG:CG	1.78	1.57
4:A:125:ALA:CA	4:A:125:ALA:C	1.75	1.57
4:A:220:THR:CB	4:A:220:THR:CG2	1.79	1.57
4:A:900:ASP:CB	4:A:900:ASP:CG	1.78	1.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:977:LYS:CG	4:A:977:LYS:CD	1.82	1.57
4:A:1355:VAL:CA	4:A:1355:VAL:CB	1.76	1.57
4:A:1361:SER:CA	4:A:1361:SER:CB	1.74	1.57
5:B:509:ALA:CA	5:B:509:ALA:CB	1.82	1.57
5:B:709:ASP:CA	5:B:709:ASP:CB	1.82	1.57
5:B:880:THR:CA	5:B:880:THR:CB	1.82	1.57
5:B:918:ILE:CB	5:B:918:ILE:CG2	1.78	1.57
7:E:66:GLU:CB	7:E:66:GLU:CG	1.74	1.57
7:E:119:SER:CA	7:E:119:SER:CB	1.77	1.57
7:E:186:LEU:CD2	7:E:186:LEU:CG	1.82	1.57
9:H:80:ARG:CB	9:H:80:ARG:CG	1.75	1.57
10:I:36:GLU:CG	10:I:36:GLU:CD	1.78	1.57
4:A:49:LYS:CG	4:A:49:LYS:CB	1.75	1.57
4:A:688:LYS:CD	4:A:688:LYS:CE	1.75	1.57
5:B:327:ARG:CB	5:B:327:ARG:CG	1.80	1.57
5:B:345:LYS:CG	5:B:345:LYS:CD	1.82	1.57
5:B:866:TYR:CA	5:B:866:TYR:C	1.74	1.57
5:B:914:LYS:CG	5:B:914:LYS:CD	1.78	1.57
5:B:950:ASP:CB	5:B:950:ASP:CG	1.75	1.57
7:E:71:LYS:CB	7:E:71:LYS:CG	1.75	1.57
8:F:127:GLU:CG	8:F:127:GLU:CB	1.78	1.57
4:A:101:LYS:CG	4:A:101:LYS:CB	1.77	1.56
4:A:237:THR:CA	4:A:237:THR:CB	1.80	1.56
4:A:323:LYS:CD	4:A:323:LYS:CE	1.77	1.56
4:A:929:LEU:CG	4:A:929:LEU:CD1	1.82	1.56
4:A:934:LYS:CD	4:A:934:LYS:CE	1.81	1.56
4:A:1173:HIS:CA	4:A:1173:HIS:C	1.75	1.56
5:B:133:LYS:CG	5:B:133:LYS:CD	1.80	1.56
5:B:502:ILE:CA	5:B:502:ILE:CB	1.78	1.56
7:E:111:VAL:CB	7:E:111:VAL:CG1	1.79	1.56
8:F:76:LYS:CA	8:F:76:LYS:CB	1.75	1.56
11:J:3:VAL:CB	11:J:3:VAL:CG2	1.76	1.56
4:A:85:ASP:CG	4:A:85:ASP:CB	1.78	1.56
4:A:278:THR:CB	4:A:278:THR:CG2	1.75	1.56
4:A:372:LYS:CG	4:A:372:LYS:CB	1.82	1.56
4:A:880:LYS:CD	4:A:880:LYS:CE	1.81	1.56
4:A:1290:LYS:CG	4:A:1290:LYS:CD	1.83	1.56
5:B:606:LYS:CD	5:B:606:LYS:CE	1.82	1.56
7:E:152:LYS:CG	7:E:152:LYS:CD	1.79	1.56
8:F:153:VAL:CG1	8:F:153:VAL:CB	1.78	1.56
9:H:37:LYS:CD	9:H:37:LYS:CE	1.83	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:J:55:ASP:CB	11:J:55:ASP:CG	1.78	1.56
4:A:408:ASP:CB	4:A:408:ASP:CG	1.75	1.56
4:A:739:ASP:CG	4:A:739:ASP:CB	1.78	1.56
4:A:991:LYS:CD	4:A:991:LYS:CE	1.80	1.56
4:A:991:LYS:CG	4:A:991:LYS:CB	1.80	1.56
5:B:244:LEU:CD2	5:B:244:LEU:CG	1.75	1.56
5:B:568:ASP:CB	5:B:568:ASP:CG	1.75	1.56
5:B:796:LEU:CD2	5:B:796:LEU:CG	1.75	1.56
5:B:866:TYR:CB	5:B:866:TYR:CA	1.81	1.56
9:H:146:ARG:CG	9:H:146:ARG:CD	1.78	1.56
10:I:9:ASP:CA	10:I:9:ASP:C	1.78	1.56
10:I:91:ARG:CB	10:I:91:ARG:CG	1.82	1.56
13:L:37:LYS:CD	13:L:37:LYS:CG	1.83	1.56
2:T:28:DT:C2'	4:A:317:LYS:HG2	1.19	1.56
4:A:87:ALA:CA	4:A:87:ALA:CB	1.78	1.56
4:A:277:GLU:CB	4:A:277:GLU:CG	1.76	1.56
4:A:1081:LEU:CD2	4:A:1081:LEU:CG	1.77	1.56
5:B:368:GLU:CG	5:B:368:GLU:CD	1.75	1.56
5:B:706:GLN:CG	5:B:706:GLN:CD	1.74	1.56
6:C:260:LEU:CD2	6:C:260:LEU:CG	1.75	1.56
7:E:171:LYS:CG	7:E:171:LYS:CB	1.81	1.56
9:H:132:LEU:CB	9:H:132:LEU:CA	1.78	1.56
9:H:144:ILE:CB	9:H:144:ILE:CG2	1.75	1.56
4:A:152:VAL:CA	4:A:152:VAL:CB	1.78	1.56
4:A:1003:LYS:CG	4:A:1003:LYS:CD	1.84	1.56
4:A:1022:LEU:CD2	4:A:1022:LEU:CG	1.76	1.56
5:B:275:TYR:CB	5:B:275:TYR:CA	1.82	1.56
5:B:510:LYS:CD	5:B:510:LYS:CG	1.77	1.56
6:C:50:GLU:CG	6:C:50:GLU:CD	1.79	1.56
6:C:222:LYS:CD	6:C:222:LYS:CE	1.78	1.56
9:H:15:VAL:CB	9:H:15:VAL:CA	1.82	1.56
9:H:80:ARG:CG	9:H:80:ARG:CD	1.81	1.56
10:I:48:LEU:CG	10:I:48:LEU:CD1	1.77	1.56
4:A:925:LEU:CD2	4:A:925:LEU:CG	1.83	1.55
4:A:1174:PHE:CA	4:A:1174:PHE:C	1.79	1.55
5:B:131:ASP:CB	5:B:131:ASP:CG	1.75	1.55
5:B:347:LYS:CG	5:B:347:LYS:CD	1.77	1.55
5:B:635:ARG:CG	5:B:635:ARG:CD	1.77	1.55
7:E:52:ARG:CG	7:E:52:ARG:CD	1.80	1.55
7:E:122:LYS:CE	7:E:122:LYS:CD	1.76	1.55
7:E:152:LYS:CG	7:E:152:LYS:CB	1.74	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:H:38:LEU:CD1	9:H:38:LEU:CG	1.78	1.55
9:H:52:GLN:CB	9:H:52:GLN:CA	1.77	1.55
12:K:54:ARG:CG	12:K:54:ARG:CD	1.83	1.55
13:L:68:GLU:CG	13:L:68:GLU:CB	1.79	1.55
4:A:277:GLU:C	4:A:277:GLU:CA	1.77	1.55
4:A:461:LYS:CB	4:A:461:LYS:CG	1.78	1.55
4:A:486:GLU:CG	4:A:486:GLU:CD	1.76	1.55
5:B:133:LYS:CD	5:B:133:LYS:CE	1.74	1.55
5:B:227:LYS:CG	5:B:227:LYS:CD	1.83	1.55
5:B:620:ARG:CG	5:B:620:ARG:CD	1.75	1.55
6:C:222:LYS:CB	6:C:222:LYS:CG	1.81	1.55
7:E:20:LYS:CG	7:E:20:LYS:CB	1.75	1.55
7:E:172:GLU:CD	7:E:172:GLU:CG	1.78	1.55
8:F:125:LEU:CD2	8:F:125:LEU:CG	1.78	1.55
9:H:3:ASN:CB	9:H:3:ASN:CG	1.78	1.55
4:A:311:GLN:CA	4:A:311:GLN:CB	1.82	1.55
4:A:977:LYS:CD	4:A:977:LYS:CE	1.75	1.55
5:B:115:GLN:CG	5:B:115:GLN:CD	1.76	1.55
5:B:133:LYS:C	5:B:133:LYS:CA	1.77	1.55
5:B:353:LYS:CG	5:B:353:LYS:CD	1.84	1.55
5:B:353:LYS:CG	5:B:353:LYS:CB	1.83	1.55
5:B:397:ASP:CG	5:B:397:ASP:CB	1.74	1.55
5:B:727:LYS:NZ	5:B:727:LYS:CE	1.70	1.55
5:B:881:ASN:CA	5:B:881:ASN:C	1.75	1.55
5:B:882:THR:CB	5:B:882:THR:CG2	1.79	1.55
7:E:35:VAL:CB	7:E:35:VAL:CA	1.80	1.55
7:E:35:VAL:CB	7:E:35:VAL:CG2	1.78	1.55
9:H:52:GLN:CG	9:H:52:GLN:CD	1.78	1.55
11:J:42:LYS:CG	11:J:42:LYS:CD	1.74	1.55
13:L:37:LYS:CG	13:L:37:LYS:CB	1.81	1.55
13:L:50:ASP:CB	13:L:50:ASP:CG	1.76	1.55
4:A:286:HIS:C	4:A:286:HIS:CA	1.78	1.55
4:A:590:ARG:CD	4:A:590:ARG:CG	1.80	1.55
4:A:1102:LYS:CD	4:A:1102:LYS:CE	1.78	1.55
4:A:1142:THR:CB	4:A:1142:THR:CG2	1.85	1.55
4:A:1391:ARG:CG	4:A:1391:ARG:CD	1.79	1.55
5:B:164:LYS:CD	5:B:164:LYS:CG	1.77	1.55
5:B:695:ALA:CB	5:B:695:ALA:CA	1.80	1.55
5:B:812:LEU:CD1	5:B:812:LEU:CG	1.76	1.55
6:C:4:GLU:CG	6:C:4:GLU:CD	1.74	1.55
6:C:208:GLU:CG	6:C:208:GLU:CB	1.78	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:H:60:ALA:CA	9:H:60:ALA:CB	1.77	1.55
4:A:49:LYS:CD	4:A:49:LYS:CE	1.79	1.55
4:A:286:HIS:CA	4:A:286:HIS:CB	1.83	1.55
4:A:368:LYS:CE	4:A:368:LYS:NZ	1.67	1.55
4:A:1003:LYS:CD	4:A:1003:LYS:CE	1.81	1.55
4:A:1217:LYS:CB	4:A:1217:LYS:CG	1.81	1.55
4:A:1256:GLU:CA	4:A:1256:GLU:CB	1.79	1.55
5:B:41:LYS:NZ	5:B:41:LYS:CE	1.69	1.55
5:B:345:LYS:CD	5:B:345:LYS:CE	1.83	1.55
5:B:1151:LEU:CG	5:B:1151:LEU:CD1	1.74	1.55
5:B:1221:SER:CA	5:B:1221:SER:C	1.74	1.55
6:C:137:LYS:CD	6:C:137:LYS:CE	1.80	1.55
7:E:3:GLN:CB	7:E:3:GLN:CG	1.79	1.55
7:E:117:THR:CA	7:E:117:THR:C	1.80	1.55
7:E:201:LYS:CB	7:E:201:LYS:CG	1.83	1.55
9:H:86:ASP:C	9:H:86:ASP:CA	1.76	1.55
4:A:11:LEU:CD2	4:A:11:LEU:CG	1.82	1.54
4:A:57:ARG:CG	4:A:57:ARG:CD	1.85	1.54
4:A:812:GLU:CG	4:A:812:GLU:CD	1.76	1.54
4:A:934:LYS:CG	4:A:934:LYS:CB	1.82	1.54
5:B:227:LYS:CD	5:B:227:LYS:CE	1.82	1.54
5:B:419:THR:CB	5:B:419:THR:CG2	1.79	1.54
5:B:426:LYS:CE	5:B:426:LYS:NZ	1.70	1.54
5:B:622:LYS:CG	5:B:622:LYS:CB	1.82	1.54
6:C:102:GLN:CB	6:C:102:GLN:CG	1.81	1.54
7:E:52:ARG:CB	7:E:52:ARG:CG	1.82	1.54
10:I:8:ARG:CB	10:I:8:ARG:CG	1.78	1.54
4:A:42:ASP:CB	4:A:42:ASP:CG	1.79	1.54
4:A:218:ASP:CB	4:A:218:ASP:CG	1.79	1.54
4:A:927:VAL:CG1	4:A:927:VAL:CB	1.74	1.54
5:B:250:PHE:C	5:B:250:PHE:CA	1.77	1.54
5:B:620:ARG:CG	5:B:620:ARG:CB	1.79	1.54
5:B:1220:ARG:CG	5:B:1220:ARG:CD	1.79	1.54
7:E:207:ARG:CD	7:E:207:ARG:CG	1.84	1.54
9:H:63:LEU:C	9:H:63:LEU:CA	1.74	1.54
11:J:59:LYS:CE	11:J:59:LYS:CD	1.79	1.54
12:K:55:LYS:CG	12:K:55:LYS:CD	1.83	1.54
4:A:129:LYS:CD	4:A:129:LYS:CG	1.84	1.54
4:A:571:LEU:CD2	4:A:571:LEU:CG	1.78	1.54
4:A:1127:ASP:CG	4:A:1127:ASP:CB	1.79	1.54
4:A:1299:VAL:CB	4:A:1299:VAL:CG1	1.83	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:415:GLN:CG	5:B:415:GLN:CB	1.83	1.54
5:B:570:VAL:CB	5:B:570:VAL:CG2	1.83	1.54
6:C:149:LYS:CG	6:C:149:LYS:CD	1.83	1.54
9:H:136:LYS:CB	9:H:136:LYS:CG	1.80	1.54
10:I:107:SER:CA	10:I:107:SER:C	1.78	1.54
12:K:26:LYS:CG	12:K:26:LYS:CD	1.83	1.54
12:K:85:ASP:CB	12:K:85:ASP:CG	1.75	1.54
4:A:15:LYS:CD	4:A:15:LYS:CE	1.85	1.54
4:A:895:LYS:CA	4:A:895:LYS:CB	1.78	1.54
4:A:1144:LYS:CD	4:A:1144:LYS:CE	1.78	1.54
5:B:108:VAL:CG1	5:B:108:VAL:CB	1.81	1.54
5:B:134:LYS:CB	5:B:134:LYS:CG	1.85	1.54
5:B:305:VAL:CB	5:B:305:VAL:CG2	1.80	1.54
5:B:327:ARG:CG	5:B:327:ARG:CD	1.78	1.54
5:B:393:LYS:CG	5:B:393:LYS:CD	1.78	1.54
5:B:429:PHE:CB	5:B:429:PHE:CG	1.85	1.54
5:B:595:ARG:NE	5:B:595:ARG:CD	1.68	1.54
6:C:266:ASP:CA	6:C:266:ASP:C	1.75	1.54
9:H:132:LEU:CA	9:H:132:LEU:C	1.75	1.54
12:K:20:LYS:CB	12:K:20:LYS:CG	1.84	1.54
4:A:724:GLU:CG	4:A:724:GLU:CD	1.78	1.54
5:B:1223:ASP:CB	5:B:1223:ASP:CG	1.81	1.54
4:A:17:VAL:CG1	4:A:17:VAL:CB	1.82	1.53
4:A:518:LYS:CE	4:A:518:LYS:CD	1.84	1.53
4:A:898:ARG:CG	4:A:898:ARG:CD	1.78	1.53
5:B:423:LYS:NZ	5:B:423:LYS:CE	1.69	1.53
6:C:78:GLU:CG	6:C:78:GLU:CD	1.78	1.53
6:C:205:LYS:CG	6:C:205:LYS:CB	1.84	1.53
7:E:33:GLU:C	7:E:33:GLU:CA	1.81	1.53
9:H:86:ASP:CA	9:H:86:ASP:N	1.68	1.53
10:I:3:THR:CB	10:I:3:THR:CG2	1.83	1.53
11:J:52:THR:CA	11:J:52:THR:C	1.77	1.53
4:A:590:ARG:CG	4:A:590:ARG:CB	1.79	1.53
4:A:880:LYS:CE	4:A:880:LYS:NZ	1.70	1.53
4:A:1003:LYS:CG	4:A:1003:LYS:CB	1.82	1.53
4:A:1278:ASN:CB	4:A:1278:ASN:CA	1.84	1.53
5:B:447:ALA:C	5:B:447:ALA:CA	1.77	1.53
5:B:883:LEU:CB	5:B:883:LEU:CG	1.76	1.53
5:B:1057:LYS:CB	5:B:1057:LYS:CG	1.83	1.53
6:C:154:LYS:CG	6:C:154:LYS:CB	1.84	1.53
8:F:155:LEU:CA	8:F:155:LEU:C	1.76	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:J:12:LYS:NZ	11:J:12:LYS:CE	1.67	1.53
12:K:55:LYS:NZ	12:K:55:LYS:CE	1.69	1.53
4:A:637:LYS:NZ	4:A:637:LYS:CE	1.68	1.53
4:A:905:ASP:CA	4:A:905:ASP:C	1.79	1.53
4:A:977:LYS:CG	4:A:977:LYS:CB	1.80	1.53
4:A:1121:GLU:CA	4:A:1121:GLU:CB	1.77	1.53
4:A:1290:LYS:CD	4:A:1290:LYS:CE	1.77	1.53
4:A:1444:MET:C	4:A:1444:MET:CA	1.77	1.53
5:B:305:VAL:CB	5:B:305:VAL:CA	1.81	1.53
6:C:217:ASP:CB	6:C:217:ASP:CG	1.80	1.53
9:H:57:VAL:CG1	9:H:57:VAL:CB	1.78	1.53
9:H:110:ASP:CB	9:H:110:ASP:CA	1.80	1.53
10:I:107:SER:CA	10:I:107:SER:CB	1.79	1.53
4:A:640:GLN:CG	4:A:640:GLN:CD	1.78	1.53
4:A:976:THR:CB	4:A:976:THR:CG2	1.83	1.53
5:B:865:LYS:CA	5:B:865:LYS:C	1.77	1.53
6:C:154:LYS:CD	6:C:154:LYS:CE	1.83	1.53
6:C:161:LYS:NZ	6:C:161:LYS:CE	1.69	1.53
9:H:82:PRO:CB	9:H:82:PRO:CG	1.77	1.53
10:I:93:LYS:CG	10:I:93:LYS:CB	1.80	1.53
10:I:115:LYS:CE	10:I:115:LYS:NZ	1.68	1.53
4:A:237:THR:CB	4:A:237:THR:CG2	1.81	1.53
4:A:1057:VAL:CG1	4:A:1057:VAL:CB	1.83	1.53
5:B:94:LYS:CG	5:B:94:LYS:CB	1.81	1.53
5:B:266:ALA:C	5:B:266:ALA:CA	1.74	1.53
5:B:730:ARG:CG	5:B:730:ARG:CD	1.79	1.53
9:H:81:PRO:C	9:H:81:PRO:CA	1.81	1.53
4:A:171:GLN:CB	4:A:171:GLN:CG	1.83	1.52
4:A:592:ASP:CG	4:A:592:ASP:CB	1.76	1.52
4:A:898:ARG:CG	4:A:898:ARG:CB	1.79	1.52
4:A:1361:SER:CA	4:A:1361:SER:C	1.75	1.52
5:B:294:ASP:CB	5:B:294:ASP:CG	1.77	1.52
6:C:102:GLN:CG	6:C:102:GLN:CD	1.76	1.52
7:E:31:THR:CA	7:E:31:THR:CB	1.79	1.52
7:E:45:LYS:CA	7:E:45:LYS:CB	1.79	1.52
8:F:78:GLN:CB	8:F:78:GLN:CG	1.84	1.52
4:A:49:LYS:CG	4:A:49:LYS:CD	1.83	1.52
4:A:532:ARG:CB	4:A:532:ARG:CG	1.83	1.52
4:A:1146:VAL:CB	4:A:1146:VAL:CG2	1.87	1.52
6:C:214:ASN:CG	6:C:214:ASN:CB	1.79	1.52
6:C:222:LYS:CD	6:C:222:LYS:CG	1.85	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:H:37:LYS:CD	9:H:37:LYS:CG	1.81	1.52
9:H:131:ASN:CB	9:H:131:ASN:CG	1.75	1.52
4:A:175:ARG:CG	4:A:175:ARG:CD	1.74	1.52
4:A:598:LEU:CD1	4:A:598:LEU:CG	1.78	1.52
4:A:681:GLU:CD	4:A:681:GLU:CG	1.83	1.52
4:A:1204:ASP:CB	4:A:1204:ASP:CG	1.83	1.52
5:B:249:ARG:C	5:B:249:ARG:CA	1.78	1.52
5:B:987:LYS:CD	5:B:987:LYS:CE	1.85	1.52
7:E:54:GLN:CG	7:E:54:GLN:CB	1.87	1.52
8:F:112:GLU:CG	8:F:112:GLU:CD	1.83	1.52
9:H:139:ASN:CB	9:H:139:ASN:CG	1.81	1.52
12:K:37:LYS:NZ	12:K:37:LYS:CE	1.69	1.52
4:A:1121:GLU:CG	4:A:1121:GLU:CD	1.78	1.52
5:B:531:GLN:CB	5:B:531:GLN:CG	1.82	1.52
5:B:865:LYS:CA	5:B:865:LYS:N	1.73	1.52
5:B:882:THR:CB	5:B:882:THR:CA	1.78	1.52
5:B:1057:LYS:CG	5:B:1057:LYS:CD	1.80	1.52
7:E:159:ASP:CB	7:E:159:ASP:CG	1.80	1.52
9:H:63:LEU:CD1	9:H:63:LEU:CG	1.86	1.52
9:H:109:LYS:CD	9:H:109:LYS:CG	1.81	1.52
4:A:531:ILE:CB	4:A:531:ILE:CG2	1.87	1.52
4:A:1109:LYS:CE	4:A:1109:LYS:CD	1.87	1.52
4:A:1144:LYS:CE	4:A:1144:LYS:NZ	1.67	1.52
5:B:635:ARG:CG	5:B:636:PRO:HD3	1.32	1.52
7:E:201:LYS:CD	7:E:201:LYS:CG	1.85	1.52
12:K:55:LYS:CG	12:K:55:LYS:CB	1.87	1.52
4:A:227:VAL:CB	4:A:227:VAL:CA	1.87	1.51
4:A:265:LYS:NZ	4:A:265:LYS:CE	1.72	1.51
4:A:323:LYS:CD	4:A:323:LYS:CG	1.85	1.51
4:A:431:LYS:CG	4:A:431:LYS:CD	1.88	1.51
4:A:601:LYS:NZ	4:A:601:LYS:CE	1.68	1.51
4:A:991:LYS:CD	4:A:991:LYS:CG	1.81	1.51
4:A:1112:LYS:CG	4:A:1112:LYS:CB	1.83	1.51
5:B:99:LYS:NZ	5:B:99:LYS:CE	1.73	1.51
5:B:509:ALA:CA	5:B:509:ALA:C	1.84	1.51
5:B:636:PRO:CG	5:B:636:PRO:CD	1.85	1.51
5:B:880:THR:CA	5:B:880:THR:C	1.81	1.51
5:B:1201:LYS:NZ	5:B:1201:LYS:CE	1.69	1.51
9:H:3:ASN:N	9:H:3:ASN:CA	1.68	1.51
9:H:89:LEU:CG	9:H:89:LEU:CD2	1.83	1.51
10:I:60:GLN:CG	10:I:60:GLN:CD	1.82	1.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:I:93:LYS:CG	10:I:93:LYS:CD	1.82	1.51
4:A:644:LYS:CE	4:A:644:LYS:NZ	1.72	1.51
5:B:345:LYS:CG	5:B:345:LYS:CB	1.82	1.51
5:B:1221:SER:CA	5:B:1221:SER:CB	1.80	1.51
8:F:87:LYS:NZ	8:F:87:LYS:CE	1.70	1.51
4:A:44:THR:CA	4:A:44:THR:CB	1.87	1.51
5:B:315:LYS:CD	5:B:315:LYS:CE	1.86	1.51
5:B:622:LYS:CE	5:B:622:LYS:NZ	1.73	1.51
6:C:121:VAL:CG1	6:C:121:VAL:CB	1.83	1.51
7:E:45:LYS:CD	7:E:45:LYS:CG	1.86	1.51
8:F:76:LYS:CB	8:F:76:LYS:CG	1.88	1.51
10:I:116:ASN:CB	10:I:116:ASN:CG	1.81	1.51
12:K:20:LYS:CG	12:K:20:LYS:CD	1.84	1.51
4:A:98:LYS:CG	4:A:98:LYS:CB	1.81	1.51
4:A:984:LYS:CD	4:A:984:LYS:CE	1.83	1.51
4:A:66:LYS:CG	4:A:66:LYS:CB	1.82	1.51
4:A:790:ASP:CB	4:A:790:ASP:CG	1.83	1.51
4:A:941:LYS:CE	4:A:941:LYS:CD	1.85	1.51
4:A:1004:ASN:ND2	7:E:167:ARG:HD2	1.24	1.51
4:A:1109:LYS:CD	4:A:1109:LYS:CG	1.88	1.51
5:B:433:GLN:CB	5:B:433:GLN:CG	1.82	1.51
5:B:497:ARG:CG	5:B:497:ARG:CD	1.87	1.51
5:B:606:LYS:CE	5:B:606:LYS:NZ	1.70	1.51
5:B:646:LEU:CG	5:B:646:LEU:CB	1.86	1.51
4:A:934:LYS:CE	4:A:934:LYS:NZ	1.70	1.50
5:B:122:LEU:CD1	5:B:122:LEU:CG	1.88	1.50
5:B:277:LYS:CB	5:B:277:LYS:CG	1.87	1.50
5:B:347:LYS:CG	5:B:347:LYS:CB	1.85	1.50
2:T:28:DT:H2"	4:A:317:LYS:CG	1.33	1.50
5:B:315:LYS:CE	5:B:315:LYS:NZ	1.72	1.50
4:A:685:GLU:CG	4:A:685:GLU:CD	1.80	1.50
4:A:863:VAL:CB	4:A:863:VAL:CG1	1.83	1.50
4:A:1277:GLU:CB	4:A:1277:GLU:CA	1.85	1.50
5:B:345:LYS:CE	5:B:345:LYS:NZ	1.69	1.50
9:H:52:GLN:CB	9:H:52:GLN:CG	1.89	1.50
4:A:212:LYS:CG	4:A:212:LYS:CB	1.82	1.50
4:A:1174:PHE:CA	4:A:1174:PHE:N	1.69	1.50
8:F:76:LYS:CE	8:F:76:LYS:CD	1.85	1.50
11:J:17:LYS:NZ	11:J:17:LYS:CE	1.73	1.50
4:A:941:LYS:CE	4:A:941:LYS:NZ	1.74	1.50
5:B:1223:ASP:CA	5:B:1223:ASP:C	1.83	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:4:GLU:CG	7:E:4:GLU:CB	1.84	1.50
4:A:1242:VAL:CB	4:A:1242:VAL:CG1	1.89	1.49
5:B:706:GLN:CG	5:B:706:GLN:CB	1.87	1.49
9:H:2:SER:C	9:H:2:SER:CA	1.84	1.49
12:K:55:LYS:CD	12:K:55:LYS:CE	1.84	1.49
13:L:49:LYS:CD	13:L:49:LYS:CG	1.86	1.49
13:L:50:ASP:CA	13:L:50:ASP:N	1.74	1.49
4:A:403:LYS:CE	4:A:403:LYS:NZ	1.73	1.49
4:A:941:LYS:CB	4:A:941:LYS:CG	1.88	1.49
5:B:367:LEU:CD2	5:B:367:LEU:CG	1.87	1.49
5:B:476:ARG:CG	5:B:476:ARG:CD	1.87	1.49
5:B:730:ARG:CG	5:B:730:ARG:CB	1.86	1.49
13:L:26:THR:C	13:L:26:THR:CA	1.82	1.49
4:A:318:SER:CA	4:A:318:SER:C	1.80	1.49
4:A:789:LYS:NZ	4:A:789:LYS:CE	1.67	1.49
4:A:1092:LYS:CG	4:A:1092:LYS:CB	1.87	1.49
7:E:172:GLU:CG	7:E:172:GLU:CB	1.90	1.49
8:F:94:LEU:CG	8:F:94:LEU:CD1	1.83	1.49
13:L:43:THR:CA	13:L:43:THR:CB	1.85	1.49
4:A:1393:ASN:CB	4:A:1393:ASN:CG	1.83	1.49
5:B:608:ASP:CG	5:B:608:ASP:CB	1.85	1.49
5:B:986:GLN:CG	5:B:986:GLN:CD	1.84	1.49
4:A:1173:HIS:CA	4:A:1173:HIS:N	1.71	1.49
5:B:709:ASP:CB	5:B:709:ASP:CG	1.85	1.49
5:B:1220:ARG:CG	5:B:1220:ARG:CB	1.87	1.49
7:E:83:CYS:CA	7:E:83:CYS:C	1.81	1.49
9:H:82:PRO:C	9:H:82:PRO:CA	1.84	1.49
4:A:278:THR:CB	4:A:278:THR:CA	1.87	1.48
4:A:1256:GLU:CB	4:A:1256:GLU:CG	1.87	1.48
5:B:595:ARG:CB	5:B:595:ARG:CG	1.91	1.48
6:C:149:LYS:CG	6:C:149:LYS:CB	1.88	1.48
12:K:54:ARG:CG	12:K:54:ARG:CB	1.86	1.48
4:A:107:CYS:SG	4:A:107:CYS:CB	2.02	1.48
4:A:153:PRO:CA	4:A:153:PRO:C	1.86	1.48
4:A:325:ILE:CB	4:A:325:ILE:CG2	1.87	1.48
4:A:1221:LYS:CG	4:A:1221:LYS:CB	1.89	1.48
5:B:510:LYS:N	5:B:510:LYS:CA	1.72	1.48
9:H:109:LYS:CG	9:H:109:LYS:CB	1.92	1.48
12:K:20:LYS:CD	12:K:20:LYS:CE	1.89	1.48
5:B:49:ASP:CB	5:B:49:ASP:CG	1.84	1.48
5:B:68:THR:CB	5:B:68:THR:CA	1.88	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:274:ILE:CB	4:A:274:ILE:CA	1.89	1.48
5:B:655:LYS:CD	5:B:655:LYS:CG	1.88	1.48
9:H:86:ASP:CB	9:H:86:ASP:CG	1.83	1.48
5:B:470:LYS:NZ	5:B:470:LYS:CE	1.76	1.47
5:B:667:GLN:CD	5:B:667:GLN:CG	1.85	1.47
5:B:870:ILE:CB	5:B:870:ILE:CG2	1.90	1.47
7:E:162:ARG:CG	7:E:162:ARG:CD	1.92	1.47
4:A:456:MET:SD	4:A:456:MET:CG	2.02	1.47
4:A:1111:MET:SD	4:A:1111:MET:CE	2.02	1.47
5:B:646:LEU:CA	5:B:646:LEU:CB	1.91	1.47
5:B:865:LYS:CB	5:B:865:LYS:CG	1.88	1.47
4:A:588:LEU:CD1	4:A:588:LEU:CG	1.90	1.47
4:A:1277:GLU:CB	4:A:1277:GLU:CG	1.89	1.47
4:A:129:LYS:CG	4:A:129:LYS:CB	1.93	1.47
10:I:8:ARG:CG	10:I:8:ARG:CD	1.92	1.47
5:B:813:LYS:NZ	5:B:813:LYS:CE	1.74	1.46
4:A:1277:GLU:CG	4:A:1277:GLU:CD	1.85	1.46
8:F:122:MET:CE	8:F:122:MET:SD	2.03	1.46
9:H:63:LEU:CG	9:H:63:LEU:CD2	1.92	1.46
13:L:49:LYS:CG	13:L:49:LYS:CB	1.90	1.46
4:A:620:LYS:CD	4:A:620:LYS:CE	1.92	1.46
4:A:781:ASP:CB	4:A:781:ASP:CG	1.86	1.46
5:B:472:ALA:N	5:B:472:ALA:CA	1.79	1.46
5:B:918:ILE:CB	5:B:918:ILE:CA	1.92	1.46
7:E:75:MET:SD	7:E:75:MET:CG	2.02	1.46
10:I:77:LYS:CB	10:I:77:LYS:CG	1.93	1.46
4:A:265:LYS:CE	4:A:265:LYS:CD	1.92	1.46
4:A:311:GLN:CG	4:A:311:GLN:CD	1.88	1.46
4:A:984:LYS:CE	4:A:984:LYS:NZ	1.76	1.46
10:I:13:MET:SD	10:I:13:MET:CE	2.04	1.46
8:F:112:GLU:CG	8:F:112:GLU:CB	1.91	1.45
9:H:19:ARG:CG	9:H:19:ARG:CD	1.94	1.45
4:A:976:THR:CB	4:A:976:THR:CA	1.91	1.45
5:B:315:LYS:CB	5:B:315:LYS:CG	1.93	1.45
6:C:154:LYS:CE	6:C:154:LYS:NZ	1.79	1.45
10:I:77:LYS:CD	10:I:77:LYS:CG	1.95	1.45
4:A:316:GLN:CB	4:A:316:GLN:CG	1.93	1.45
5:B:892:LYS:NZ	5:B:892:LYS:CE	1.79	1.45
4:A:320:ARG:C	4:A:321:PRO:N	1.75	1.45
4:A:620:LYS:CD	4:A:620:LYS:CG	1.91	1.45
4:A:941:LYS:CD	4:A:941:LYS:CG	1.92	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1121:GLU:CB	4:A:1121:GLU:CG	1.95	1.45
5:B:133:LYS:CG	5:B:133:LYS:CB	1.91	1.45
5:B:164:LYS:CG	5:B:164:LYS:CB	1.94	1.45
9:H:76:THR:CA	9:H:76:THR:CB	1.94	1.45
10:I:42:LEU:CD2	10:I:42:LEU:CG	1.92	1.45
12:K:20:LYS:CE	12:K:20:LYS:NZ	1.80	1.45
4:A:15:LYS:CE	4:A:15:LYS:NZ	1.79	1.44
5:B:655:LYS:CG	5:B:655:LYS:CB	1.91	1.44
5:B:892:LYS:CD	5:B:892:LYS:CE	1.94	1.44
8:F:76:LYS:CG	8:F:76:LYS:CD	1.94	1.44
10:I:16:PRO:CB	10:I:16:PRO:CG	1.77	1.44
4:A:761:MET:CE	4:A:761:MET:SD	2.05	1.44
4:A:820:GLY:C	4:A:821:ARG:N	1.68	1.44
4:A:518:LYS:CE	4:A:518:LYS:NZ	1.80	1.44
4:A:1294:PRO:CB	4:A:1294:PRO:CG	1.94	1.44
5:B:882:THR:CA	5:B:882:THR:N	1.81	1.44
5:B:987:LYS:CE	5:B:987:LYS:NZ	1.79	1.44
2:T:12:DC:O3'	2:T:12:DC:C3'	1.65	1.44
9:H:34:ASP:CB	9:H:34:ASP:CG	1.90	1.44
4:A:895:LYS:CG	4:A:895:LYS:CD	1.96	1.43
6:C:137:LYS:CE	6:C:137:LYS:NZ	1.79	1.43
4:A:162:VAL:CB	4:A:162:VAL:CA	1.95	1.43
4:A:1110:ASN:CA	4:A:1110:ASN:CB	1.95	1.43
10:I:60:GLN:CG	10:I:60:GLN:CB	1.97	1.43
4:A:797:LYS:NZ	4:A:797:LYS:CE	1.79	1.43
4:A:153:PRO:CG	4:A:153:PRO:CB	1.79	1.43
4:A:905:ASP:CB	4:A:905:ASP:CG	1.92	1.43
4:A:998:LEU:CD2	4:A:998:LEU:CG	1.94	1.43
4:A:1444:MET:CE	4:A:1444:MET:SD	2.06	1.43
5:B:1021:MET:CE	5:B:1021:MET:SD	2.06	1.43
5:B:1072:MET:SD	5:B:1072:MET:CG	2.07	1.43
4:A:400:PRO:CB	4:A:400:PRO:CG	1.78	1.43
4:A:531:ILE:CB	4:A:531:ILE:CA	1.97	1.43
11:J:10:CYS:CB	11:J:10:CYS:SG	2.07	1.43
13:L:26:THR:CA	13:L:26:THR:CB	1.97	1.43
4:A:605:MET:CG	4:A:605:MET:SD	2.07	1.42
7:E:58:MET:CG	7:E:58:MET:SD	2.07	1.42
9:H:19:ARG:CG	9:H:19:ARG:CB	1.97	1.42
11:J:2:ILE:C	11:J:53:HIS:NE2	1.75	1.42
4:A:322:VAL:CB	4:A:322:VAL:CG2	1.95	1.42
10:I:9:ASP:CB	10:I:9:ASP:CG	1.92	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:432:MET:CE	5:B:432:MET:SD	2.09	1.41
3:N:12:DT:OP1	7:E:117:THR:CG2	1.64	1.41
4:A:672:ASP:CG	4:A:672:ASP:CB	1.94	1.41
4:A:1004:ASN:HD22	7:E:167:ARG:CD	1.34	1.41
5:B:69:LEU:CA	5:B:69:LEU:C	1.94	1.40
5:B:315:LYS:CD	5:B:315:LYS:CG	1.95	1.40
7:E:45:LYS:CB	7:E:45:LYS:CG	1.99	1.40
13:L:64:LEU:CG	13:L:64:LEU:CD1	1.97	1.40
4:A:146:MET:CE	4:A:146:MET:SD	2.09	1.40
5:B:667:GLN:CB	5:B:667:GLN:CG	2.00	1.40
12:K:23:PRO:CG	12:K:23:PRO:CB	1.74	1.40
4:A:321:PRO:N	4:A:322:VAL:HG13	1.24	1.39
4:A:1209:MET:CG	4:A:1209:MET:SD	2.10	1.39
4:A:1080:THR:CA	4:A:1080:THR:CB	1.99	1.39
4:A:895:LYS:CB	4:A:895:LYS:CG	2.01	1.39
5:B:880:THR:C	5:B:880:THR:HA	0.97	1.39
5:B:712:PRO:CB	5:B:712:PRO:CG	2.02	1.38
5:B:1189:ILE:CB	5:B:1189:ILE:CA	2.00	1.38
7:E:53:PRO:CG	7:E:53:PRO:CB	1.75	1.38
4:A:590:ARG:CG	4:A:590:ARG:HH11	1.35	1.38
4:A:620:LYS:CE	4:A:620:LYS:NZ	1.84	1.38
4:A:492:PRO:CB	4:A:492:PRO:CG	1.77	1.38
4:A:972:HIS:CB	4:A:972:HIS:CA	1.99	1.37
10:I:10:CYS:SG	10:I:10:CYS:CB	2.12	1.37
4:A:620:LYS:CG	4:A:620:LYS:CB	2.00	1.37
4:A:899:VAL:HG12	4:A:929:LEU:CD1	1.53	1.37
4:A:1435:PRO:CG	4:A:1435:PRO:CB	1.77	1.37
5:B:293:PRO:CG	5:B:293:PRO:CB	1.76	1.37
5:B:1185:CYS:CB	5:B:1185:CYS:SG	2.12	1.37
5:B:549:THR:CB	5:B:549:THR:CG2	2.03	1.36
4:A:67:CYS:SG	4:A:67:CYS:CB	2.12	1.36
4:A:987:VAL:CB	4:A:987:VAL:CG2	2.02	1.36
6:C:98:VAL:C	6:C:99:LEU:HD23	1.49	1.36
9:H:97:MET:CE	9:H:97:MET:SD	2.14	1.36
2:T:20:DC:H2"	2:T:21:DC:C5'	1.54	1.36
5:B:868:MET:CG	5:B:868:MET:SD	2.12	1.36
4:A:321:PRO:N	4:A:322:VAL:CG1	1.88	1.35
4:A:708:MET:CE	4:A:708:MET:SD	2.14	1.35
3:N:12:DT:P	7:E:117:THR:CG2	2.13	1.35
9:H:123:MET:CE	9:H:123:MET:SD	2.13	1.35
2:T:13:DA:N6	3:N:2:DT:C4	1.93	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:91:PHE:N	4:A:297:GLN:HE22	1.23	1.35
4:A:1278:ASN:CB	4:A:1278:ASN:CG	1.98	1.35
5:B:310:MET:CE	5:B:310:MET:SD	2.13	1.34
4:A:746:MET:CE	4:A:746:MET:SD	2.15	1.34
4:A:590:ARG:HG3	4:A:590:ARG:NH1	1.39	1.34
5:B:68:THR:C	5:B:69:LEU:HD23	1.51	1.34
12:K:28:PRO:CB	12:K:28:PRO:CG	1.91	1.33
5:B:108:VAL:CB	5:B:108:VAL:CA	2.05	1.33
5:B:636:PRO:CG	5:B:636:PRO:CB	2.07	1.33
5:B:1202:LEU:HD13	5:B:1206:GLU:OE2	1.21	1.33
4:A:351:THR:CG2	5:B:1103:ILE:HD12	1.57	1.33
4:A:1156:PRO:CG	4:A:1156:PRO:CB	1.80	1.33
4:A:1368:MET:SD	4:A:1368:MET:CE	2.16	1.32
5:B:411:PRO:CB	5:B:411:PRO:CG	1.78	1.32
5:B:635:ARG:CD	5:B:636:PRO:HD3	1.58	1.32
4:A:901:LEU:HD23	4:A:907:THR:CG2	1.58	1.32
5:B:860:MET:CE	5:B:860:MET:SD	2.17	1.32
9:H:5:LEU:CD2	9:H:133:ASN:O	1.78	1.31
4:A:853:ASP:OD1	4:A:855:THR:HB	1.18	1.31
3:N:2:DT:OP2	4:A:1110:ASN:HB2	1.24	1.31
4:A:90:VAL:HG12	4:A:297:GLN:NE2	1.01	1.31
4:A:91:PHE:HD2	4:A:297:GLN:OE1	1.09	1.31
4:A:341:MET:CE	4:A:341:MET:HB3	1.61	1.30
4:A:67:CYS:O	4:A:70:CYS:HB3	1.31	1.30
5:B:1138:MET:SD	5:B:1138:MET:CE	2.19	1.30
4:A:69:THR:CA	4:A:69:THR:CB	2.08	1.30
2:T:21:DC:C5'	2:T:21:DC:O5'	1.78	1.30
5:B:321:GLY:C	5:B:323:VAL:H	1.27	1.30
4:A:453:MET:CE	4:A:453:MET:SD	2.19	1.30
5:B:901:PRO:CB	5:B:901:PRO:CG	1.93	1.30
4:A:849:MET:CE	4:A:1061:GLY:HA2	1.60	1.29
9:H:32:THR:HG22	9:H:33:GLN:CG	1.59	1.29
5:B:129:PHE:CE2	5:B:166:PHE:HB3	1.66	1.29
6:C:75:MET:CE	6:C:75:MET:SD	2.19	1.29
4:A:1331:SER:OG	4:A:1333:ILE:HG22	1.30	1.28
10:I:29:CYS:CB	10:I:29:CYS:SG	2.21	1.28
4:A:1161:THR:HG22	4:A:1163:ILE:N	1.44	1.28
11:J:46:CYS:SG	11:J:46:CYS:CB	2.21	1.28
4:A:1336:MET:CE	4:A:1336:MET:SD	2.21	1.28
5:B:595:ARG:CD	5:B:595:ARG:CG	2.10	1.28
4:A:1161:THR:CG2	4:A:1163:ILE:H	1.47	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:90:VAL:CG1	4:A:297:GLN:NE2	1.97	1.27
5:B:473:MET:SD	5:B:473:MET:CG	2.23	1.27
12:K:97:LYS:O	12:K:100:ALA:HB3	1.30	1.27
4:A:146:MET:O	4:A:170:THR:HG22	1.18	1.27
4:A:311:GLN:CB	4:A:311:GLN:CG	2.11	1.26
2:T:21:DC:OP1	5:B:1129:ARG:HB3	1.35	1.26
5:B:550:ASP:OD1	5:B:551:PRO:HD2	1.29	1.26
5:B:615:MET:SD	5:B:615:MET:CE	2.23	1.25
5:B:642:ASP:O	5:B:644:GLU:N	1.67	1.25
5:B:712:PRO:O	5:B:712:PRO:CD	1.78	1.25
5:B:1133:MET:CE	5:B:1133:MET:SD	2.24	1.25
3:N:2:DT:O2	3:N:3:DG:C5	1.88	1.25
5:B:199:MET:CE	5:B:199:MET:SD	2.24	1.25
5:B:476:ARG:O	5:B:478:GLY:N	1.70	1.25
7:E:117:THR:O	7:E:120:ALA:HB3	1.30	1.25
9:H:100:THR:CA	9:H:100:THR:CB	2.14	1.25
12:K:22:ASP:HB3	12:K:23:PRO:CD	1.67	1.24
5:B:1115:THR:CG2	5:B:1117:GLN:HG3	1.67	1.24
7:E:43:LYS:O	7:E:47:CYS:HB2	1.35	1.24
11:J:65:PRO:CB	11:J:65:PRO:CG	2.11	1.24
4:A:103:CYS:O	4:A:105:CYS:N	1.71	1.24
4:A:1042:PHE:CE2	4:A:1046:LEU:HD12	1.71	1.24
5:B:129:PHE:CE2	5:B:166:PHE:CB	2.19	1.24
5:B:1152:MET:CE	5:B:1152:MET:SD	2.25	1.23
12:K:12:LEU:N	12:K:12:LEU:HD12	1.39	1.23
5:B:1016:ALA:C	5:B:1017:ILE:HG12	1.60	1.23
8:F:106:PRO:CG	8:F:106:PRO:CB	2.10	1.23
5:B:550:ASP:OD1	5:B:551:PRO:CD	1.86	1.23
7:E:57:MET:CE	7:E:57:MET:SD	2.27	1.23
7:E:60:PHE:CE2	7:E:80:VAL:HG21	1.72	1.23
4:A:528:LEU:HD12	4:A:528:LEU:O	1.36	1.22
4:A:903:ASN:O	4:A:904:THR:O	1.53	1.22
4:A:91:PHE:CD2	4:A:297:GLN:OE1	1.92	1.22
4:A:18:GLN:NE2	4:A:1418:LEU:HB2	1.56	1.21
4:A:528:LEU:HD12	4:A:528:LEU:C	1.54	1.21
5:B:635:ARG:CG	5:B:636:PRO:CD	2.16	1.21
12:K:1:MET:SD	12:K:1:MET:CE	2.29	1.21
5:B:274:PRO:O	5:B:276:ILE:HG13	1.36	1.21
5:B:662:MET:CE	5:B:662:MET:SD	2.28	1.21
4:A:900:ASP:HA	4:A:926:GLN:NE2	1.55	1.21
5:B:65:GLU:CG	5:B:66:ASP:H	1.51	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:H:5:LEU:HD22	9:H:133:ASN:O	1.08	1.21
5:B:114:PRO:HD3	5:B:124:TYR:CE1	1.75	1.20
10:I:81:ARG:C	10:I:82:GLU:HG2	1.44	1.20
4:A:278:THR:O	4:A:279:LEU:HD23	1.03	1.20
4:A:996:ASN:O	4:A:998:LEU:HB2	1.39	1.20
7:E:162:ARG:NH2	7:E:166:LYS:NZ	1.89	1.20
4:A:944:ARG:HG2	4:A:1298:TYR:OH	1.41	1.20
4:A:1063:MET:CE	4:A:1063:MET:SD	2.31	1.19
5:B:68:THR:O	5:B:69:LEU:HD23	1.37	1.19
5:B:1076:HIS:ND1	12:K:40:HIS:HD2	1.39	1.19
4:A:41:MET:CE	4:A:41:MET:SD	2.31	1.19
4:A:1237:ILE:CG2	4:A:1238:ILE:N	1.99	1.19
4:A:1390:ASN:ND2	4:A:1399:ARG:HB3	1.58	1.19
4:A:401:GLY:C	4:A:435:HIS:CD2	2.21	1.19
4:A:925:LEU:O	4:A:927:VAL:N	1.75	1.19
4:A:1206:ASP:O	4:A:1274:ARG:NH1	1.76	1.19
5:B:167:ILE:HG23	5:B:424:LEU:HD13	1.19	1.19
4:A:496:GLU:O	4:A:499:ALA:N	1.73	1.18
4:A:1284:MET:CE	4:A:1284:MET:SD	2.32	1.18
6:C:3:GLU:HG3	6:C:4:GLU:N	1.33	1.18
9:H:134:ASN:O	9:H:135:LEU:O	1.61	1.18
4:A:265:LYS:CE	4:A:323:LYS:HG2	1.74	1.18
4:A:1134:ILE:O	4:A:1138:ILE:HG12	1.44	1.18
4:A:1189:SER:OG	4:A:1256:GLU:OE2	1.56	1.18
5:B:868:MET:SD	5:B:868:MET:CE	2.31	1.18
5:B:1077:THR:CG2	5:B:1079:LYS:H	1.54	1.18
4:A:1299:VAL:HG12	4:A:1300:LYS:H	1.09	1.17
5:B:955:THR:HG23	13:L:54:ARG:O	1.44	1.17
5:B:1099:VAL:HG12	5:B:1103:ILE:HD11	1.25	1.17
5:B:1175:LEU:O	5:B:1176:ASN:CB	1.90	1.17
10:I:42:LEU:HD12	10:I:43:VAL:N	1.60	1.17
5:B:355:ILE:C	5:B:356:LEU:HD23	1.70	1.17
4:A:225:ASN:O	4:A:226:GLU:C	1.88	1.17
5:B:760:ASP:N	5:B:760:ASP:OD1	1.62	1.17
4:A:321:PRO:C	4:A:321:PRO:N	1.95	1.16
5:B:1202:LEU:CD1	5:B:1206:GLU:OE2	1.93	1.16
7:E:113:GLN:HA	7:E:137:GLU:HG3	1.20	1.16
4:A:58:LEU:HD21	4:A:80:HIS:O	1.42	1.16
4:A:320:ARG:N	4:A:320:ARG:HD2	1.56	1.16
7:E:124:VAL:HG22	7:E:132:ILE:CG2	1.76	1.16
12:K:87:LEU:O	12:K:90:ALA:HB3	1.45	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1364:ASN:HD21	4:A:1366:ARG:HG2	1.10	1.15
5:B:477:ALA:HB3	5:B:479:VAL:CG2	1.76	1.15
4:A:1214:GLU:O	4:A:1218:GLN:HG2	1.43	1.15
4:A:306:ASN:N	4:A:306:ASN:ND2	1.91	1.15
2:T:20:DC:C2'	2:T:21:DC:H5'	1.75	1.15
4:A:341:MET:CE	4:A:341:MET:SD	2.34	1.15
4:A:873:MET:CE	4:A:873:MET:SD	2.33	1.15
6:C:229:TYR:N	6:C:229:TYR:HD1	1.39	1.15
4:A:672:ASP:HB2	4:A:736:ASN:OD1	1.47	1.14
4:A:1209:MET:SD	4:A:1236:LEU:HD22	1.85	1.14
5:B:25:ILE:HD12	5:B:651:LEU:HD12	1.26	1.14
5:B:862:GLN:O	5:B:914:LYS:NZ	1.78	1.14
4:A:67:CYS:O	4:A:70:CYS:CB	1.95	1.14
5:B:1051:THR:HG22	5:B:1053:GLU:N	1.63	1.14
12:K:12:LEU:N	12:K:12:LEU:CD1	2.09	1.14
12:K:83:PRO:CB	12:K:83:PRO:CG	2.24	1.14
4:A:849:MET:HE1	4:A:1061:GLY:HA2	1.14	1.14
4:A:868:TYR:HE1	4:A:1064:VAL:HG11	1.03	1.14
5:B:349:ILE:O	5:B:350:GLN:O	1.66	1.14
5:B:918:ILE:O	5:B:933:SER:N	1.81	1.14
10:I:103:CYS:C	10:I:104:LEU:HD23	1.72	1.14
4:A:274:ILE:CB	4:A:274:ILE:HA	1.62	1.13
5:B:1076:HIS:ND1	12:K:40:HIS:CD2	2.14	1.13
5:B:1115:THR:HG22	5:B:1117:GLN:HG3	1.15	1.13
5:B:1184:GLY:O	5:B:1186:ASP:N	1.81	1.13
6:C:99:LEU:HD23	6:C:99:LEU:N	1.57	1.13
4:A:858:ASN:HD22	4:A:858:ASN:C	1.47	1.13
4:A:921:GLY:O	4:A:922:ASP:O	1.67	1.13
4:A:927:VAL:CG1	4:A:927:VAL:CG2	2.25	1.13
4:A:1325:THR:O	7:E:147:HIS:ND1	1.81	1.13
4:A:91:PHE:N	4:A:297:GLN:NE2	1.95	1.13
4:A:886:ILE:HG12	4:A:943:LEU:HD12	1.30	1.13
4:A:1441:PHE:CZ	8:F:89:GLU:HA	1.83	1.13
3:N:2:DT:OP2	4:A:1110:ASN:CB	1.95	1.12
4:A:444:PHE:CE2	4:A:470:LEU:HD23	1.83	1.13
5:B:235:SER:O	5:B:236:HIS:ND1	1.82	1.13
5:B:236:HIS:CD2	5:B:389:ALA:HB2	1.82	1.12
7:E:109:ILE:O	7:E:109:ILE:CG2	1.86	1.12
4:A:135:PHE:CD2	4:A:135:PHE:O	2.01	1.12
4:A:455:MET:O	4:A:456:MET:HG2	1.46	1.12
4:A:1127:ASP:HB2	4:A:1130:GLN:HB3	1.30	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:1072:MET:HE3	5:B:1085:ILE:HG21	1.14	1.12
5:B:1210:MET:CE	5:B:1210:MET:SD	2.37	1.12
3:N:2:DT:O2	3:N:3:DG:C6	2.02	1.12
4:A:888:GLY:O	4:A:940:ARG:NH2	1.83	1.12
4:A:902:LEU:O	4:A:903:ASN:HB2	1.43	1.12
5:B:96:TYR:N	5:B:129:PHE:O	1.81	1.12
5:B:324:ILE:HG22	5:B:324:ILE:O	1.49	1.12
7:E:85:GLU:OE2	7:E:92:THR:HG21	1.47	1.12
4:A:151:ASP:OD1	4:A:163:SER:HA	1.48	1.12
4:A:649:ILE:O	4:A:653:VAL:CG2	1.97	1.12
4:A:847:ASP:OD2	4:A:859:SER:OG	1.65	1.12
4:A:1362:TYR:HD1	4:A:1363:VAL:N	1.47	1.12
6:C:33:LEU:CD1	6:C:37:MET:HE2	1.78	1.12
4:A:120:GLU:HG2	4:A:120:GLU:O	1.41	1.11
4:A:532:ARG:HG3	4:A:532:ARG:O	1.47	1.11
4:A:1320:PRO:O	4:A:1320:PRO:HG2	1.42	1.11
12:K:12:LEU:CD1	12:K:12:LEU:H	1.61	1.11
4:A:321:PRO:O	4:A:322:VAL:CG2	1.95	1.11
4:A:649:ILE:O	4:A:653:VAL:HG23	1.45	1.11
4:A:946:VAL:HG12	4:A:947:PHE:CD1	1.83	1.11
4:A:897:TYR:CD2	4:A:936:LEU:HD13	1.85	1.11
5:B:757:PRO:O	5:B:757:PRO:HD2	1.43	1.11
5:B:788:ARG:CB	5:B:788:ARG:HH11	1.63	1.11
5:B:788:ARG:HB3	5:B:788:ARG:NH1	1.66	1.11
5:B:1184:GLY:O	5:B:1185:CYS:C	1.91	1.11
7:E:161:LYS:O	7:E:163:GLU:N	1.84	1.11
4:A:213:HIS:O	4:A:214:ILE:O	1.66	1.11
4:A:596:THR:O	4:A:596:THR:HB	1.50	1.11
4:A:676:MET:CE	4:A:676:MET:SD	2.39	1.11
4:A:900:ASP:CA	4:A:926:GLN:NE2	2.12	1.11
5:B:789:MET:CE	5:B:789:MET:SD	2.39	1.11
9:H:58:THR:HG22	9:H:59:ILE:N	1.58	1.11
3:N:11:DG:O3'	7:E:117:THR:CG2	1.98	1.10
4:A:322:VAL:CG2	4:A:322:VAL:CA	2.29	1.10
4:A:1394:THR:HG23	4:A:1398:MET:HE3	1.33	1.10
10:I:42:LEU:C	10:I:43:VAL:HG23	1.69	1.10
4:A:278:THR:O	4:A:279:LEU:CD2	1.97	1.10
4:A:899:VAL:HG12	4:A:929:LEU:HD12	1.25	1.10
4:A:1308:THR:HG22	4:A:1310:GLY:N	1.64	1.10
5:B:227:LYS:N	5:B:395:GLN:OE1	1.84	1.10
4:A:24:PRO:CB	4:A:237:THR:HG21	1.80	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:528:LEU:HB2	4:A:531:ILE:HG22	1.31	1.10
4:A:1143:LEU:O	4:A:1146:VAL:HG23	1.52	1.10
4:A:90:VAL:CG1	4:A:297:GLN:HE21	1.55	1.10
4:A:254:GLU:C	5:B:918:ILE:HG13	1.75	1.10
4:A:820:GLY:HA2	4:A:823:GLY:H	1.13	1.10
4:A:1193:LEU:C	4:A:1193:LEU:HD12	1.70	1.10
5:B:1203:LEU:C	5:B:1203:LEU:HD12	1.70	1.10
7:E:37:LEU:HG	7:E:37:LEU:O	1.47	1.10
10:I:17:ARG:HG2	10:I:18:GLU:H	1.08	1.10
4:A:908:LEU:HD11	4:A:983:ILE:HD11	1.33	1.09
5:B:254:LEU:HD22	5:B:361:LEU:HD11	1.30	1.09
4:A:909:ASP:CG	4:A:910:PRO:HD3	1.77	1.09
5:B:658:ILE:HA	5:B:661:LEU:HD12	1.29	1.09
5:B:980:PHE:O	5:B:981:ALA:HB3	1.45	1.09
7:E:178:ILE:HG23	7:E:214:CYS:HB2	1.31	1.09
9:H:41:ASP:O	9:H:42:ILE:HD13	1.53	1.09
4:A:265:LYS:HE3	4:A:323:LYS:HG2	1.18	1.09
4:A:1189:SER:OG	4:A:1190:PRO:HD2	1.53	1.09
5:B:527:THR:OG1	5:B:528:PRO:HD2	1.50	1.09
6:C:73:GLN:HG3	6:C:74:SER:N	1.54	1.09
4:A:1290:LYS:C	4:A:1291:VAL:HG23	1.72	1.09
5:B:431:TYR:CE1	5:B:447:ALA:HB2	1.86	1.09
5:B:860:MET:HG2	5:B:861:ASP:N	1.66	1.09
10:I:75:CYS:SG	10:I:78:CYS:HB2	1.93	1.09
4:A:364:VAL:HG22	4:A:364:VAL:O	1.48	1.08
4:A:380:VAL:HG21	4:A:430:TRP:H	1.09	1.08
4:A:531:ILE:HD13	4:A:622:VAL:HG21	1.10	1.08
5:B:477:ALA:HB3	5:B:479:VAL:HG22	1.32	1.08
9:H:32:THR:HG22	9:H:33:GLN:HG3	1.26	1.08
4:A:351:THR:HG23	5:B:1103:ILE:HD12	1.26	1.08
5:B:356:LEU:HD23	5:B:356:LEU:N	1.57	1.08
5:B:482:VAL:O	5:B:483:LEU:C	1.97	1.08
4:A:901:LEU:O	4:A:902:LEU:C	1.95	1.08
4:A:1237:ILE:HG22	4:A:1238:ILE:N	1.67	1.08
5:B:65:GLU:HG3	5:B:66:ASP:H	1.18	1.08
5:B:449:ASN:OD1	5:B:449:ASN:O	1.71	1.08
7:E:113:GLN:HB3	7:E:137:GLU:CD	1.79	1.08
4:A:341:MET:HB3	4:A:341:MET:HE3	1.24	1.08
4:A:701:LEU:HD23	4:A:701:LEU:N	1.63	1.08
6:C:44:LEU:HD12	6:C:160:LYS:O	1.54	1.08
5:B:129:PHE:HE2	5:B:166:PHE:HB3	0.94	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:174:LEU:HD22	5:B:204:ILE:HD11	1.31	1.08
5:B:427:ASP:HA	5:B:430:ARG:HH11	1.15	1.08
4:A:902:LEU:O	4:A:903:ASN:CB	2.01	1.07
4:A:1209:MET:HB2	4:A:1231:ASP:OD2	1.53	1.07
5:B:628:THR:O	5:B:628:THR:HG22	1.38	1.07
5:B:1165:ILE:HG22	5:B:1166:CYS:HB3	1.13	1.07
4:A:1259:MET:CE	4:A:1259:MET:SD	2.43	1.07
4:A:1317:MET:CE	4:A:1317:MET:SD	2.42	1.07
5:B:323:VAL:O	5:B:323:VAL:HG12	1.31	1.07
5:B:880:THR:HA	5:B:881:ASN:N	1.67	1.07
7:E:29:PHE:O	7:E:30:ILE:HG13	1.55	1.07
4:A:92:HIS:O	4:A:95:PHE:HB2	1.54	1.07
5:B:103:ASN:OD1	5:B:109:THR:OG1	1.71	1.07
5:B:287:ARG:HG2	5:B:292:ILE:HD13	1.31	1.07
5:B:430:ARG:C	5:B:431:TYR:O	1.79	1.07
5:B:635:ARG:CD	5:B:636:PRO:CD	2.33	1.07
5:B:860:MET:CG	5:B:861:ASP:N	2.12	1.07
10:I:42:LEU:HD12	10:I:43:VAL:H	0.96	1.07
4:A:868:TYR:CE1	4:A:1064:VAL:HG11	1.88	1.07
4:A:1362:TYR:CD1	4:A:1363:VAL:N	2.22	1.07
5:B:53:GLN:HG3	5:B:53:GLN:O	1.42	1.07
6:C:121:VAL:CG1	6:C:121:VAL:C	2.28	1.07
9:H:101:ALA:HB2	9:H:116:TYR:CD2	1.90	1.07
10:I:26:LEU:CD2	10:I:36:GLU:O	2.03	1.07
5:B:128:LEU:HB2	5:B:168:GLY:O	1.55	1.06
12:K:9:LEU:N	12:K:9:LEU:HD23	1.67	1.06
1:R:8:G:O2'	1:R:9:G:H5'	1.55	1.06
5:B:744:HIS:CG	5:B:745:PRO:HD3	1.90	1.06
5:B:1106:ARG:HD2	5:B:1126:GLY:O	1.52	1.06
7:E:121:MET:CE	7:E:121:MET:SD	2.42	1.06
7:E:178:ILE:CG1	7:E:179:GLN:H	1.66	1.06
9:H:142:LEU:HD12	9:H:143:LEU:N	1.68	1.06
4:A:134:ARG:HD3	4:A:221:SER:O	1.54	1.06
4:A:970:THR:O	4:A:970:THR:HG22	1.29	1.06
5:B:778:MET:O	5:B:819:ALA:HB1	1.55	1.06
7:E:164:LEU:HD13	7:E:211:TYR:CE2	1.90	1.06
9:H:5:LEU:HD22	9:H:133:ASN:C	1.79	1.06
2:T:23:DC:OP1	5:B:1123:SER:HB3	1.56	1.06
4:A:399:HIS:HB3	4:A:400:PRO:CD	1.85	1.06
4:A:691:LEU:C	4:A:691:LEU:HD12	1.77	1.06
4:A:1051:ALA:O	4:A:1054:LEU:HB2	1.56	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:957:ASN:HD21	5:B:958:GLN:HB2	1.18	1.06
7:E:97:VAL:HG13	7:E:127:ILE:HG21	1.37	1.06
4:A:90:VAL:HG11	4:A:297:GLN:HA	1.33	1.06
4:A:1195:LEU:HD11	4:A:1267:MET:CE	1.85	1.06
5:B:199:MET:O	5:B:200:GLY:O	1.73	1.06
9:H:116:TYR:HB2	9:H:123:MET:HB3	1.12	1.06
10:I:16:PRO:HD2	10:I:16:PRO:O	1.56	1.06
4:A:352:VAL:HG12	4:A:353:ILE:N	1.69	1.05
4:A:444:PHE:HE2	4:A:470:LEU:CD2	1.69	1.05
5:B:349:ILE:O	5:B:350:GLN:C	1.99	1.05
5:B:800:GLN:HG2	11:J:52:THR:HG21	1.38	1.05
5:B:826:ALA:O	5:B:1011:ILE:HG23	1.56	1.05
5:B:1077:THR:HG22	5:B:1079:LYS:H	1.21	1.05
6:C:226:ASP:O	6:C:227:THR:HB	1.55	1.05
9:H:58:THR:CG2	9:H:59:ILE:N	2.18	1.05
4:A:1067:LEU:HD21	4:A:1367:HIS:HE1	1.16	1.05
6:C:3:GLU:CG	6:C:4:GLU:H	1.69	1.05
7:E:178:ILE:HG12	7:E:179:GLN:H	0.88	1.05
10:I:42:LEU:CD1	10:I:43:VAL:H	1.68	1.05
4:A:37:PHE:H	4:A:52:GLY:HA2	1.16	1.05
4:A:531:ILE:HD12	4:A:649:ILE:HG21	1.38	1.05
6:C:125:MET:CE	6:C:125:MET:SD	2.44	1.05
4:A:57:ARG:HB3	4:A:68:GLN:HB3	1.39	1.05
12:K:97:LYS:O	12:K:100:ALA:CB	2.03	1.05
4:A:341:MET:CE	4:A:341:MET:CB	2.34	1.05
4:A:901:LEU:CD2	4:A:907:THR:CG2	2.35	1.05
4:A:925:LEU:C	4:A:927:VAL:N	2.04	1.05
5:B:882:THR:CB	5:B:882:THR:C	2.30	1.05
7:E:30:ILE:HG22	7:E:30:ILE:O	1.50	1.05
4:A:605:MET:HA	4:A:605:MET:HE3	1.36	1.04
4:A:1279:ILE:HG22	4:A:1279:ILE:O	1.47	1.04
4:A:970:THR:O	4:A:970:THR:CG2	1.98	1.04
6:C:243:VAL:O	6:C:244:VAL:C	1.97	1.04
8:F:155:LEU:HD23	8:F:155:LEU:H	1.21	1.04
4:A:114:LEU:O	4:A:115:LEU:HD23	1.57	1.04
5:B:944:THR:HG22	5:B:944:THR:O	1.53	1.04
7:E:153:HIS:O	7:E:154:ILE:HG12	1.56	1.04
4:A:108:MET:N	4:A:108:MET:SD	2.23	1.04
4:A:179:LEU:CD1	4:A:297:GLN:HG2	1.87	1.04
4:A:265:LYS:NZ	4:A:322:VAL:HB	1.73	1.04
4:A:276:LEU:HD11	4:A:292:ALA:O	1.57	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:897:TYR:HD2	4:A:936:LEU:HD13	0.93	1.04
4:A:1224:LEU:HD11	4:A:1240:CYS:HB3	1.40	1.04
6:C:71:PRO:HB2	6:C:133:ILE:HD12	1.35	1.04
3:N:10:DG:H2"	3:N:11:DG:OP2	1.52	1.03
5:B:129:PHE:CE2	5:B:166:PHE:HB2	1.93	1.03
7:E:187:TYR:HD2	7:E:188:LEU:HD23	1.22	1.03
10:I:75:CYS:SG	10:I:78:CYS:CB	2.46	1.03
4:A:756:ILE:O	4:A:759:ALA:HB3	1.58	1.03
4:A:1436:ILE:O	4:A:1439:GLY:N	1.91	1.03
5:B:65:GLU:HG2	5:B:66:ASP:N	1.66	1.03
7:E:37:LEU:O	7:E:38:PRO:O	1.76	1.03
4:A:541:ILE:HG22	4:A:546:VAL:HG22	1.37	1.03
4:A:741:ASN:ND2	4:A:743:VAL:H	1.56	1.03
4:A:1025:ARG:HG2	4:A:1025:ARG:HH11	1.18	1.03
5:B:477:ALA:CB	5:B:479:VAL:HG22	1.87	1.03
5:B:1106:ARG:NH2	5:B:1109:GLY:C	2.16	1.03
10:I:2:THR:O	10:I:2:THR:CG2	2.04	1.03
4:A:244:PRO:HG2	4:A:245:PRO:HD2	1.37	1.03
4:A:431:LYS:C	4:A:432:VAL:HG23	1.76	1.03
4:A:1208:THR:HB	4:A:1211:GLN:HB2	1.40	1.03
10:I:17:ARG:CG	10:I:18:GLU:H	1.63	1.03
4:A:1227:ILE:HG22	4:A:1228:TRP:N	1.71	1.03
5:B:20:ASP:N	5:B:655:LYS:NZ	2.07	1.03
5:B:477:ALA:HB3	5:B:479:VAL:N	1.72	1.03
7:E:162:ARG:NH2	7:E:166:LYS:HZ3	1.51	1.03
8:F:109:VAL:HG12	8:F:110:ASP:H	1.22	1.03
4:A:146:MET:O	4:A:170:THR:CG2	2.06	1.02
4:A:527:THR:HG22	4:A:527:THR:O	1.59	1.02
5:B:509:ALA:C	5:B:509:ALA:HA	1.83	1.02
5:B:957:ASN:HB3	5:B:961:LEU:HD12	1.39	1.02
5:B:1196:ILE:HB	5:B:1197:PRO:HD2	1.41	1.02
2:T:28:DT:H2'	4:A:317:LYS:HG2	1.39	1.02
4:A:820:GLY:C	4:A:821:ARG:CA	2.32	1.02
5:B:27:ALA:O	5:B:30:SER:OG	1.77	1.02
10:I:29:CYS:SG	10:I:32:CYS:N	2.33	1.02
12:K:57:LEU:HB2	12:K:76:GLN:HG2	1.41	1.02
5:B:970:THR:HG22	5:B:971:THR:N	1.71	1.02
6:C:229:TYR:N	6:C:229:TYR:CD1	2.23	1.02
4:A:379:VAL:HG13	4:A:380:VAL:HG23	1.41	1.02
5:B:65:GLU:CG	5:B:66:ASP:N	2.13	1.02
7:E:46:TYR:HE2	7:E:58:MET:HA	1.22	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:H:126:GLU:C	9:H:130:ARG:NH1	2.17	1.02
4:A:491:VAL:CG1	4:A:492:PRO:HD2	1.89	1.02
4:A:901:LEU:HD23	4:A:907:THR:HG21	1.39	1.02
5:B:635:ARG:CB	5:B:636:PRO:CD	2.37	1.02
5:B:646:LEU:CB	5:B:646:LEU:HG	1.87	1.02
5:B:744:HIS:CD2	5:B:746:SER:OG	2.13	1.02
6:C:133:ILE:HG22	6:C:134:ILE:N	1.70	1.02
7:E:162:ARG:HH21	7:E:166:LYS:NZ	1.50	1.02
9:H:128:ASN:OD1	9:H:131:ASN:ND2	1.91	1.02
4:A:401:GLY:CA	4:A:435:HIS:HD2	1.73	1.01
4:A:432:VAL:O	4:A:433:GLU:C	1.95	1.01
4:A:588:LEU:HD12	4:A:589:GLN:H	1.23	1.01
4:A:901:LEU:CD2	4:A:907:THR:HG21	1.89	1.01
4:A:1299:VAL:CG1	4:A:1300:LYS:H	1.73	1.01
4:A:1433:MET:CE	4:A:1433:MET:SD	2.48	1.01
9:H:32:THR:HG22	9:H:33:GLN:HG2	1.39	1.01
5:B:326:ASP:O	5:B:328:GLU:N	1.93	1.01
5:B:778:MET:HE3	5:B:853:SER:HB3	1.40	1.01
5:B:957:ASN:ND2	5:B:958:GLN:HB2	1.75	1.01
7:E:112:TYR:CE1	7:E:136:ASN:HB2	1.94	1.01
7:E:187:TYR:CD2	7:E:187:TYR:O	2.12	1.01
10:I:107:SER:CB	10:I:107:SER:HA	1.88	1.01
4:A:26:GLU:HA	4:A:29:ALA:HB3	1.43	1.01
4:A:257:ARG:CB	4:A:257:ARG:C	2.32	1.01
4:A:351:THR:HG22	5:B:1103:ILE:HD12	1.39	1.01
4:A:1140:HIS:HB2	4:A:1276:VAL:O	1.60	1.01
5:B:300:HIS:HE1	5:B:376:PHE:CZ	1.77	1.01
5:B:321:GLY:C	5:B:323:VAL:N	2.06	1.01
7:E:178:ILE:HG12	7:E:179:GLN:N	1.68	1.01
9:H:116:TYR:HB2	9:H:123:MET:CB	1.90	1.01
5:B:112:LEU:HD12	5:B:113:TYR:H	1.22	1.01
5:B:1177:HIS:O	5:B:1179:GLN:N	1.93	1.01
3:N:2:DT:O2	3:N:3:DG:N7	1.94	1.01
4:A:35:ILE:HG22	4:A:270:LEU:HD13	1.38	1.01
4:A:122:MET:O	4:A:123:ARG:O	1.77	1.01
4:A:514:PRO:HG2	4:A:515:GLN:N	1.74	1.01
4:A:981:LEU:CD1	4:A:981:LEU:HG	1.89	1.01
5:B:710:LEU:C	5:B:711:GLU:HG2	1.84	1.01
5:B:788:ARG:HH11	5:B:788:ARG:HB3	1.16	1.01
6:C:58:LEU:HD23	6:C:58:LEU:N	1.72	1.01
8:F:132:LEU:O	8:F:148:VAL:HG23	1.60	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:I:58:VAL:C	10:I:59:VAL:HG23	1.85	1.01
10:I:103:CYS:O	10:I:104:LEU:HD23	1.57	1.01
7:E:40:GLU:O	7:E:43:LYS:HB3	1.58	1.00
9:H:109:LYS:HB3	9:H:110:ASP:CG	1.85	1.00
4:A:30:ILE:HG13	5:B:1183:LYS:HZ1	1.26	1.00
4:A:399:HIS:HB3	4:A:400:PRO:HD3	1.40	1.00
4:A:1422:ARG:HH21	5:B:1220:ARG:HD3	1.24	1.00
9:H:32:THR:CG2	9:H:33:GLN:HG3	1.90	1.00
10:I:2:THR:O	10:I:2:THR:HG22	1.58	1.00
5:B:69:LEU:HD23	5:B:69:LEU:N	1.72	1.00
5:B:331:LEU:O	5:B:332:ASP:O	1.77	1.00
7:E:113:GLN:CA	7:E:137:GLU:HG3	1.91	1.00
4:A:830:LYS:HE3	4:A:1098:VAL:HG21	1.43	1.00
5:B:101:MET:SD	5:B:101:MET:CE	2.49	1.00
5:B:1051:THR:HG22	5:B:1053:GLU:H	1.22	1.00
9:H:76:THR:O	9:H:77:ARG:O	1.80	1.00
4:A:262:LEU:O	4:A:266:LEU:HB2	1.62	1.00
4:A:893:PHE:CD2	4:A:893:PHE:O	2.14	1.00
4:A:793:SER:HB2	4:A:794:PRO:HD2	1.42	1.00
5:B:955:THR:HG22	5:B:956:THR:N	1.75	1.00
4:A:759:ALA:O	4:A:763:ALA:HB3	1.62	1.00
5:B:68:THR:O	5:B:69:LEU:CD2	2.10	1.00
5:B:280:ILE:HG21	5:B:285:ILE:HG12	1.43	1.00
12:K:22:ASP:CB	12:K:23:PRO:CD	2.34	1.00
12:K:33:ILE:HD12	12:K:73:LEU:HD23	1.44	1.00
4:A:1329:THR:HG22	4:A:1331:SER:H	1.21	0.99
5:B:132:VAL:O	5:B:132:VAL:HG12	1.59	0.99
5:B:755:ILE:O	5:B:755:ILE:HG22	1.59	0.99
2:T:13:DA:N6	3:N:2:DT:O4	1.93	0.99
4:A:261:ASP:CG	4:A:323:LYS:HD2	1.87	0.99
6:C:98:VAL:C	6:C:99:LEU:CD2	2.35	0.99
4:A:1131:ALA:O	4:A:1134:ILE:HG13	1.62	0.99
5:B:646:LEU:CD2	5:B:646:LEU:CD1	2.40	0.99
5:B:1104:HIS:HB2	5:B:1122:ARG:HD2	1.44	0.99
2:T:20:DC:H4'	4:A:447:GLN:NE2	1.76	0.99
4:A:321:PRO:C	4:A:322:VAL:CG2	2.34	0.99
4:A:532:ARG:CG	4:A:532:ARG:O	2.11	0.99
4:A:606:LEU:HB2	4:A:614:PHE:CZ	1.98	0.99
6:C:33:LEU:HD11	6:C:37:MET:HE2	1.42	0.99
4:A:1283:VAL:HG12	4:A:1284:MET:N	1.77	0.99
12:K:22:ASP:CB	12:K:23:PRO:HD3	1.92	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:842:VAL:O	4:A:842:VAL:HG12	1.61	0.99
4:A:853:ASP:OD1	4:A:855:THR:CB	2.11	0.99
5:B:864:LYS:N	5:B:872:GLU:OE1	1.95	0.99
7:E:29:PHE:C	7:E:30:ILE:HG13	1.83	0.99
12:K:32:VAL:HG23	12:K:74:ARG:HG3	1.40	0.99
4:A:756:ILE:HG22	4:A:757:ASN:N	1.75	0.99
4:A:49:LYS:HZ1	4:A:60:SER:C	1.69	0.99
4:A:888:GLY:O	4:A:889:SER:O	1.81	0.99
4:A:1116:LEU:HD22	4:A:1311:VAL:HG22	1.45	0.99
4:A:1364:ASN:ND2	4:A:1366:ARG:HG2	1.78	0.99
5:B:68:THR:C	5:B:69:LEU:CD2	2.36	0.99
5:B:169:ARG:N	5:B:454:THR:OG1	1.96	0.99
7:E:69:ILE:O	7:E:73:PRO:HD3	1.61	0.99
7:E:78:LEU:HB2	7:E:107:THR:HG22	1.44	0.99
4:A:897:TYR:HD2	4:A:936:LEU:CD1	1.76	0.98
9:H:40:LEU:HD11	9:H:123:MET:HE3	1.43	0.98
4:A:151:ASP:OD1	4:A:163:SER:CA	2.09	0.98
4:A:901:LEU:HD23	4:A:907:THR:HG23	1.43	0.98
5:B:214:ALA:HB3	5:B:498:THR:HA	1.45	0.98
5:B:284:ILE:HD12	5:B:324:ILE:HD12	1.44	0.98
9:H:108:SER:O	9:H:109:LYS:CB	2.10	0.98
4:A:306:ASN:N	4:A:306:ASN:HD22	1.62	0.98
4:A:353:ILE:HD13	4:A:487:MET:HE3	1.45	0.98
4:A:899:VAL:CG1	4:A:929:LEU:CD1	2.42	0.98
9:H:26:ILE:O	9:H:39:THR:HA	1.64	0.98
12:K:22:ASP:HB3	12:K:23:PRO:HD3	1.00	0.98
4:A:242:PRO:O	4:A:247:ARG:NH2	1.94	0.98
5:B:175:ARG:HG2	5:B:175:ARG:HH11	1.24	0.98
5:B:179:CYS:O	5:B:181:LEU:N	1.97	0.98
4:A:87:ALA:CB	4:A:88:LYS:H	1.77	0.98
4:A:530:GLY:HA2	4:A:533:LYS:H	1.25	0.98
5:B:431:TYR:CD1	5:B:447:ALA:HB2	1.98	0.98
7:E:98:ILE:O	7:E:99:HIS:C	2.07	0.98
4:A:329:LEU:N	4:A:329:LEU:HD23	1.76	0.98
5:B:426:LYS:CG	5:B:426:LYS:O	2.11	0.98
5:B:647:GLY:O	5:B:648:HIS:CG	2.15	0.98
4:A:423:ASP:C	4:A:424:ILE:HG13	1.86	0.98
4:A:635:ARG:NH2	4:A:877:HIS:ND1	2.12	0.98
4:A:903:ASN:O	4:A:904:THR:C	2.06	0.98
4:A:1195:LEU:N	4:A:1195:LEU:HD23	1.79	0.98
13:L:55:ILE:O	13:L:56:LEU:HB2	1.64	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:78:LEU:CB	7:E:107:THR:HG22	1.92	0.98
8:F:147:SER:O	8:F:151:LEU:HD12	1.63	0.98
4:A:83:HIS:O	4:A:83:HIS:CG	2.16	0.97
4:A:215:SER:HB3	4:A:218:ASP:OD2	1.64	0.97
4:A:261:ASP:HB3	4:A:323:LYS:CD	1.94	0.97
5:B:55:VAL:O	5:B:56:ASP:C	2.06	0.97
5:B:956:THR:CG2	5:B:956:THR:O	2.10	0.97
7:E:109:ILE:O	7:E:109:ILE:HG22	1.17	0.97
4:A:1298:TYR:O	4:A:1299:VAL:HG22	1.62	0.97
5:B:99:LYS:HB3	5:B:180:TYR:CE2	1.99	0.97
5:B:1066:SER:O	5:B:1067:ARG:HD3	1.61	0.97
10:I:81:ARG:C	10:I:82:GLU:CG	2.36	0.97
12:K:57:LEU:HD12	12:K:76:GLN:HG3	1.46	0.97
2:T:28:DT:C2'	4:A:317:LYS:CG	2.12	0.97
4:A:24:PRO:HB2	4:A:237:THR:HG21	1.42	0.97
4:A:1322:ILE:O	4:A:1324:PRO:HD3	1.63	0.97
12:K:92:ASN:HA	12:K:95:ILE:HD12	1.45	0.97
3:N:12:DT:OP1	7:E:117:THR:HG21	0.81	0.97
4:A:676:MET:SD	4:A:679:ILE:HD12	2.04	0.97
4:A:1282:VAL:O	4:A:1282:VAL:HG12	1.64	0.97
9:H:134:ASN:C	9:H:135:LEU:O	2.05	0.97
10:I:17:ARG:O	10:I:25:LEU:HD12	1.62	0.97
10:I:40:SER:HB2	10:I:41:PRO:HD3	1.46	0.97
4:A:265:LYS:HZ1	4:A:323:LYS:HD3	1.30	0.97
4:A:331:GLY:O	4:A:332:LYS:HB3	1.64	0.97
4:A:898:ARG:NH2	4:A:930:ASP:OD1	1.96	0.97
6:C:3:GLU:CG	6:C:4:GLU:N	2.27	0.97
10:I:96:SER:O	10:I:98:VAL:N	1.96	0.97
4:A:431:LYS:C	4:A:432:VAL:CG2	2.34	0.97
4:A:981:LEU:HD21	4:A:1039:LYS:HA	1.44	0.97
4:A:1339:LEU:HD13	7:E:147:HIS:CD2	1.99	0.97
5:B:1072:MET:CE	5:B:1085:ILE:HG21	1.95	0.97
4:A:401:GLY:C	4:A:435:HIS:HD2	1.61	0.97
4:A:547:LEU:HD22	12:K:58:PHE:HD1	1.26	0.97
4:A:925:LEU:O	4:A:926:GLN:C	1.95	0.97
4:A:1154:TYR:CE2	4:A:1156:PRO:HB3	2.00	0.97
5:B:757:PRO:O	5:B:757:PRO:CD	2.08	0.97
4:A:492:PRO:C	4:A:493:GLN:HE21	1.71	0.97
4:A:666:ILE:HA	5:B:1026:LEU:HD13	1.45	0.97
7:E:117:THR:O	7:E:120:ALA:CB	2.12	0.97
4:A:1339:LEU:HD13	7:E:147:HIS:HD2	1.25	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:485:ARG:HH11	5:B:485:ARG:CG	1.78	0.97
8:F:155:LEU:C	8:F:155:LEU:HA	1.88	0.97
1:R:5:A:C2	1:R:6:G:C5	2.52	0.96
4:A:567:LYS:HB3	9:H:96:VAL:N	1.80	0.96
7:E:117:THR:CA	7:E:117:THR:CB	2.43	0.96
4:A:541:ILE:HG22	4:A:546:VAL:CG2	1.94	0.96
5:B:37:PHE:O	5:B:39:ARG:N	1.97	0.96
5:B:580:VAL:CG1	5:B:581:PHE:N	2.25	0.96
5:B:634:TYR:HE1	5:B:692:TYR:CD1	1.83	0.96
5:B:1099:VAL:CG1	5:B:1103:ILE:HD11	1.95	0.96
4:A:74:MET:CE	4:A:74:MET:SD	2.53	0.96
4:A:1389:PHE:O	4:A:1389:PHE:HD1	1.45	0.96
5:B:635:ARG:CB	5:B:636:PRO:HD3	1.95	0.96
6:C:41:ILE:HD13	6:C:172:PRO:HG3	1.46	0.96
4:A:320:ARG:HD2	4:A:320:ARG:H	1.28	0.96
4:A:1279:ILE:O	4:A:1279:ILE:CG2	2.07	0.96
7:E:199:ILE:O	7:E:199:ILE:HG22	1.64	0.96
8:F:125:LEU:HB2	8:F:130:ILE:HD12	1.46	0.96
4:A:1322:ILE:O	4:A:1322:ILE:HG12	1.65	0.96
4:A:1437:GLY:HA3	8:F:88:TYR:CD2	1.99	0.96
5:B:882:THR:HG22	5:B:883:LEU:N	1.79	0.96
4:A:380:VAL:CG2	4:A:430:TRP:H	1.77	0.96
5:B:112:LEU:HD12	5:B:113:TYR:N	1.80	0.96
5:B:211:VAL:HG12	5:B:212:LEU:N	1.76	0.96
8:F:147:SER:O	8:F:151:LEU:CD1	2.13	0.96
1:R:9:G:OP1	5:B:776:GLN:NE2	1.98	0.96
4:A:849:MET:CE	4:A:1061:GLY:CA	2.43	0.96
5:B:731:VAL:HG12	5:B:732:SER:H	1.30	0.96
4:A:14:VAL:H	4:A:1432:GLN:NE2	1.63	0.96
4:A:452:LYS:HB2	5:B:1141:HIS:CE1	2.01	0.96
4:A:58:LEU:CD2	4:A:80:HIS:O	2.12	0.96
4:A:919:ILE:CG2	4:A:922:ASP:HB2	1.95	0.96
6:C:194:GLU:O	6:C:195:GLN:HG3	1.65	0.96
4:A:1290:LYS:C	4:A:1291:VAL:CG2	2.38	0.96
5:B:522:VAL:HG12	5:B:523:CYS:N	1.80	0.96
9:H:108:SER:O	9:H:109:LYS:HB2	1.65	0.96
4:A:314:ALA:O	4:A:315:LEU:O	1.84	0.95
4:A:341:MET:HE1	4:A:843:LYS:HZ3	1.28	0.95
4:A:419:LYS:HG3	4:A:420:ARG:HG3	1.47	0.95
4:A:567:LYS:HB2	4:A:568:PRO:HD2	1.46	0.95
10:I:31:THR:HG23	10:I:31:THR:O	1.63	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:129:LYS:O	4:A:130:ASP:HB2	1.61	0.95
4:A:744:LYS:HE2	4:A:748:MET:HE2	1.46	0.95
4:A:249:SER:C	4:A:249:SER:HA	1.89	0.95
9:H:7:ASP:O	9:H:8:ASP:HB2	1.66	0.95
10:I:26:LEU:HD22	10:I:36:GLU:O	1.65	0.95
12:K:87:LEU:O	12:K:90:ALA:CB	2.15	0.95
4:A:543:LEU:CD1	4:A:547:LEU:HD11	1.96	0.95
4:A:736:ASN:HD22	4:A:736:ASN:H	0.99	0.95
5:B:236:HIS:HD2	5:B:389:ALA:HB2	1.20	0.95
5:B:744:HIS:CD2	5:B:746:SER:HG	1.84	0.95
5:B:917:PRO:HA	5:B:933:SER:O	1.66	0.95
5:B:1060:ARG:O	5:B:1062:HIS:N	2.00	0.95
4:A:1237:ILE:HG22	4:A:1238:ILE:CA	1.96	0.95
5:B:1074:ASN:C	5:B:1074:ASN:OD1	2.08	0.95
6:C:44:LEU:HB2	6:C:77:ILE:HD11	1.47	0.95
11:J:2:ILE:C	11:J:53:HIS:CE1	2.44	0.95
11:J:45:CYS:O	11:J:48:ARG:HG3	1.65	0.95
4:A:89:PRO:O	4:A:204:THR:CG2	2.15	0.95
4:A:576:GLN:O	4:A:579:SER:HB2	1.67	0.95
5:B:800:GLN:CG	11:J:52:THR:HG21	1.97	0.95
5:B:883:LEU:CB	5:B:883:LEU:HG	1.93	0.95
6:C:99:LEU:N	6:C:99:LEU:CD2	2.24	0.95
8:F:135:ARG:O	8:F:135:ARG:HG2	1.62	0.95
4:A:452:LYS:HB2	5:B:1141:HIS:HE1	1.27	0.95
4:A:1053:PHE:O	4:A:1055:ARG:N	1.98	0.95
4:A:1161:THR:HG22	4:A:1163:ILE:H	0.80	0.95
5:B:1210:MET:CE	5:B:1210:MET:CB	2.44	0.95
4:A:7:SER:HB3	5:B:1193:GLN:NE2	1.81	0.95
5:B:628:THR:O	5:B:628:THR:CG2	2.13	0.95
5:B:642:ASP:C	5:B:644:GLU:H	1.75	0.95
4:A:219:PHE:O	4:A:222:LEU:HD12	1.66	0.95
4:A:886:ILE:HD11	4:A:943:LEU:HB2	1.47	0.95
5:B:1051:THR:HG22	5:B:1052:VAL:N	1.79	0.95
4:A:1138:ILE:O	4:A:1276:VAL:HG23	1.67	0.94
4:A:1143:LEU:O	4:A:1146:VAL:CG2	2.13	0.94
5:B:560:GLU:O	5:B:561:TRP:CD1	2.20	0.94
4:A:341:MET:HE1	4:A:843:LYS:NZ	1.82	0.94
5:B:899:ILE:HG22	5:B:900:ALA:H	1.31	0.94
4:A:90:VAL:HG12	4:A:297:GLN:CD	1.92	0.94
4:A:1033:GLN:O	4:A:1033:GLN:HG2	1.64	0.94
5:B:69:LEU:C	5:B:69:LEU:HA	1.89	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:973:ILE:HG23	5:B:974:PRO:HD2	1.47	0.94
4:A:899:VAL:HG12	4:A:929:LEU:HD13	1.48	0.94
4:A:380:VAL:HG22	4:A:430:TRP:O	1.67	0.94
5:B:168:GLY:HA2	5:B:454:THR:OG1	1.66	0.94
5:B:292:ILE:HD11	5:B:327:ARG:H	1.30	0.94
5:B:593:PRO:HD2	5:B:594:ALA:H	1.32	0.94
10:I:31:THR:HG22	10:I:32:CYS:N	1.80	0.94
5:B:168:GLY:CA	5:B:454:THR:OG1	2.15	0.94
5:B:708:GLU:O	5:B:710:LEU:N	2.01	0.94
10:I:95:THR:HG22	10:I:96:SER:N	1.80	0.94
4:A:14:VAL:N	4:A:1432:GLN:HE22	1.65	0.94
5:B:95:ILE:HG23	5:B:95:ILE:O	1.66	0.94
6:C:242:GLN:O	6:C:246:ARG:HG3	1.67	0.94
5:B:755:ILE:O	5:B:755:ILE:CG2	2.13	0.94
7:E:53:PRO:O	7:E:55:ARG:N	2.00	0.94
4:A:313:GLN:O	4:A:314:ALA:HB2	1.66	0.94
4:A:1331:SER:HG	4:A:1333:ILE:HG22	1.26	0.94
5:B:271:ALA:O	5:B:279:ASP:HB3	1.68	0.94
5:B:477:ALA:HB3	5:B:479:VAL:CA	1.96	0.94
9:H:144:ILE:CG2	9:H:144:ILE:HB	1.96	0.94
4:A:1105:LEU:HB3	4:A:1384:VAL:CG2	1.98	0.94
4:A:1208:THR:OG1	4:A:1211:GLN:OE1	1.84	0.94
5:B:316:PRO:HA	5:B:319:GLU:HG3	1.49	0.94
5:B:751:VAL:HG12	5:B:752:ALA:N	1.80	0.94
8:F:73:ALA:O	8:F:74:ILE:HG12	1.68	0.94
9:H:40:LEU:CD1	9:H:123:MET:HE3	1.97	0.94
12:K:58:PHE:HE2	12:K:74:ARG:HE	1.13	0.94
4:A:276:LEU:CD1	4:A:292:ALA:O	2.16	0.93
4:A:889:SER:HB3	4:A:891:ALA:HB3	1.48	0.93
7:E:135:PHE:HB3	7:E:140:LEU:HD11	1.47	0.93
8:F:101:ILE:HD13	8:F:120:ILE:HG22	1.48	0.93
4:A:35:ILE:HG22	4:A:270:LEU:CD1	1.98	0.93
4:A:261:ASP:HB3	4:A:323:LYS:CG	1.98	0.93
4:A:571:LEU:CD2	4:A:571:LEU:HG	1.99	0.93
4:A:596:THR:CB	4:A:596:THR:C	2.40	0.93
4:A:705:LYS:HG3	4:A:713:SER:HB3	1.48	0.93
5:B:449:ASN:O	5:B:449:ASN:CG	2.01	0.93
6:C:96:SER:O	6:C:97:VAL:HG23	1.68	0.93
10:I:25:LEU:HD12	10:I:26:LEU:H	1.32	0.93
4:A:4:GLN:HE22	5:B:1159:ARG:H	1.07	0.93
4:A:996:ASN:C	4:A:998:LEU:HB2	1.91	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:547:LEU:HD22	12:K:58:PHE:CD1	2.04	0.93
4:A:1189:SER:OG	4:A:1190:PRO:CD	2.16	0.93
5:B:708:GLU:C	5:B:710:LEU:H	1.77	0.93
6:C:51:VAL:HG22	6:C:155:LEU:CD2	1.97	0.93
6:C:202:PRO:O	6:C:202:PRO:HD2	1.68	0.93
7:E:187:TYR:CD2	7:E:188:LEU:HD23	2.02	0.93
4:A:35:ILE:O	4:A:270:LEU:HD11	1.68	0.93
4:A:1308:THR:HG22	4:A:1310:GLY:H	1.28	0.93
7:E:65:THR:OG1	7:E:67:GLU:HB3	1.68	0.93
4:A:764:CYS:C	4:A:764:CYS:SG	2.51	0.93
4:A:1110:ASN:CB	4:A:1110:ASN:CG	2.42	0.93
6:C:18:VAL:HG23	6:C:240:VAL:HG11	1.49	0.93
4:A:18:GLN:HE22	4:A:1418:LEU:HB2	1.18	0.93
4:A:868:TYR:HE1	4:A:1064:VAL:CG1	1.81	0.93
5:B:25:ILE:HG22	5:B:26:THR:N	1.82	0.93
5:B:129:PHE:CD2	5:B:166:PHE:HB2	2.02	0.93
6:C:163:ILE:HD12	6:C:166:GLU:HB2	1.49	0.93
9:H:42:ILE:O	9:H:44:VAL:HG23	1.69	0.93
4:A:92:HIS:HB2	4:A:236:LEU:HD11	1.50	0.92
4:A:1389:PHE:CD1	4:A:1389:PHE:C	2.45	0.92
5:B:635:ARG:HD2	5:B:636:PRO:HD3	1.50	0.92
5:B:639:ILE:CG2	5:B:640:VAL:N	2.31	0.92
7:E:131:THR:HG22	7:E:132:ILE:HB	1.48	0.92
4:A:265:LYS:HZ2	4:A:322:VAL:CB	1.82	0.92
4:A:893:PHE:CD2	4:A:893:PHE:C	2.43	0.92
4:A:1280:GLU:O	4:A:1281:ARG:O	1.87	0.92
5:B:1051:THR:CG2	5:B:1053:GLU:H	1.81	0.92
7:E:96:PHE:O	7:E:98:ILE:N	2.03	0.92
5:B:273:LEU:CD2	5:B:360:PHE:HD1	1.83	0.92
5:B:323:VAL:O	5:B:323:VAL:CG1	2.17	0.92
5:B:384:ARG:HH22	5:B:621:GLU:HG3	1.32	0.92
5:B:451:LYS:O	5:B:452:THR:C	2.12	0.92
5:B:727:LYS:HD3	5:B:1049:ASP:OD1	1.69	0.92
7:E:136:ASN:C	7:E:136:ASN:OD1	2.11	0.92
10:I:17:ARG:HG2	10:I:18:GLU:N	1.84	0.92
4:A:11:LEU:CD2	4:A:11:LEU:HG	2.00	0.92
4:A:858:ASN:C	4:A:858:ASN:ND2	2.15	0.92
8:F:111:LEU:C	8:F:113:GLY:H	1.71	0.92
2:T:23:DC:OP1	5:B:1123:SER:CB	2.16	0.92
4:A:401:GLY:O	4:A:435:HIS:HB2	1.67	0.92
4:A:565:ILE:HG23	4:A:567:LYS:HE3	1.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:580:VAL:HG12	5:B:581:PHE:N	1.82	0.92
5:B:1072:MET:O	5:B:1081:LEU:HB2	1.70	0.92
6:C:43:THR:CG2	6:C:44:LEU:N	2.30	0.92
4:A:179:LEU:HD12	4:A:297:GLN:HG2	1.50	0.92
5:B:1215:ARG:O	5:B:1216:LEU:HD23	1.69	0.92
11:J:31:ASP:O	11:J:34:THR:N	2.02	0.92
6:C:243:VAL:O	6:C:245:VAL:N	2.02	0.92
7:E:42:PHE:CZ	7:E:58:MET:HE1	2.02	0.92
9:H:11:GLN:N	9:H:29:ALA:O	2.02	0.92
9:H:114:VAL:N	9:H:125:LEU:O	2.03	0.92
4:A:709:THR:HG22	4:A:711:ARG:H	1.32	0.92
4:A:820:GLY:O	4:A:820:GLY:N	2.02	0.92
5:B:233:PRO:HG2	5:B:234:ILE:HD13	1.52	0.92
5:B:784:ASN:O	5:B:788:ARG:HG3	1.69	0.92
5:B:957:ASN:HB3	5:B:961:LEU:CD1	2.00	0.92
9:H:2:SER:C	9:H:2:SER:HA	1.95	0.92
10:I:42:LEU:C	10:I:43:VAL:CG2	2.35	0.92
4:A:65:LEU:CB	4:A:65:LEU:HG	1.98	0.92
4:A:736:ASN:O	4:A:737:LEU:C	2.11	0.92
4:A:925:LEU:CD2	4:A:925:LEU:HG	1.99	0.92
4:A:1326:ARG:O	4:A:1327:ILE:C	2.11	0.92
4:A:1394:THR:CG2	4:A:1398:MET:HE3	1.99	0.92
7:E:116:ILE:O	7:E:118:PRO:CD	2.18	0.92
7:E:194:GLU:O	7:E:213:ILE:HD12	1.70	0.92
11:J:3:VAL:N	11:J:53:HIS:CE1	2.37	0.92
4:A:777:PHE:CE2	4:A:782:ARG:HA	2.04	0.91
5:B:778:MET:CE	5:B:853:SER:HB3	2.00	0.91
4:A:265:LYS:CE	4:A:323:LYS:CG	2.48	0.91
4:A:705:LYS:O	4:A:706:HIS:C	2.12	0.91
4:A:1422:ARG:NH2	5:B:1220:ARG:HD3	1.85	0.91
5:B:882:THR:CG2	5:B:882:THR:C	2.44	0.91
9:H:132:LEU:CB	9:H:132:LEU:HG	1.98	0.91
4:A:321:PRO:CA	4:A:322:VAL:HG13	1.72	0.91
4:A:531:ILE:CD1	4:A:622:VAL:HG21	1.99	0.91
4:A:1170:ILE:O	4:A:1171:GLN:C	2.14	0.91
4:A:1320:PRO:O	4:A:1320:PRO:CG	2.16	0.91
5:B:682:SER:O	5:B:686:ASN:ND2	2.03	0.91
4:A:523:ILE:HD13	4:A:622:VAL:HG22	1.52	0.91
5:B:167:ILE:HD12	5:B:424:LEU:HD11	1.52	0.91
10:I:15:TYR:HB3	10:I:16:PRO:HD3	1.50	0.91
12:K:61:TYR:CD1	12:K:61:TYR:C	2.49	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:L:58:LYS:O	13:L:58:LYS:HG2	1.68	0.91
4:A:567:LYS:HB3	9:H:96:VAL:H	1.34	0.91
4:A:809:THR:HG23	4:A:812:GLU:OE1	1.71	0.91
4:A:1152:ILE:O	4:A:1152:ILE:HG22	1.68	0.91
5:B:847:ASP:HB3	6:C:167:HIS:CD2	2.06	0.91
7:E:102:GLU:O	7:E:104:ASN:N	2.02	0.91
4:A:820:GLY:O	4:A:820:GLY:CA	2.18	0.91
4:A:908:LEU:O	4:A:909:ASP:O	1.89	0.91
4:A:919:ILE:HG23	4:A:922:ASP:HB2	1.52	0.91
6:C:134:ILE:CD1	6:C:141:GLY:HA3	2.01	0.91
7:E:115:ASN:O	7:E:116:ILE:HG12	1.71	0.91
5:B:34:ILE:HD12	5:B:542:MET:HE1	1.49	0.91
7:E:162:ARG:NH2	7:E:166:LYS:HZ2	1.60	0.91
4:A:225:ASN:O	4:A:227:VAL:N	2.02	0.91
5:B:770:GLN:HG3	5:B:770:GLN:O	1.69	0.91
5:B:957:ASN:ND2	5:B:958:GLN:N	2.18	0.91
4:A:901:LEU:HG	4:A:926:GLN:HG2	1.52	0.91
4:A:929:LEU:CD1	4:A:929:LEU:HG	2.00	0.91
5:B:827:ILE:O	5:B:828:ALA:HB2	1.71	0.91
5:B:1210:MET:CE	5:B:1210:MET:HB3	2.01	0.91
6:C:226:ASP:O	6:C:227:THR:CB	2.19	0.91
7:E:162:ARG:HH21	7:E:166:LYS:HZ3	1.01	0.91
4:A:1193:LEU:C	4:A:1193:LEU:CD1	2.44	0.90
4:A:531:ILE:HD12	4:A:649:ILE:CG2	2.01	0.90
5:B:102:VAL:CG2	5:B:112:LEU:HB2	2.02	0.90
5:B:299:GLU:OE1	5:B:572:HIS:HB3	1.71	0.90
5:B:1060:ARG:C	5:B:1062:HIS:H	1.79	0.90
12:K:53:ASP:O	12:K:56:VAL:HG23	1.71	0.90
4:A:35:ILE:O	4:A:270:LEU:CD1	2.19	0.90
4:A:834:THR:HG21	4:A:1077:THR:HG23	1.50	0.90
4:A:1025:ARG:HH11	4:A:1025:ARG:CG	1.83	0.90
5:B:780:VAL:HG21	11:J:56:LEU:HD11	1.53	0.90
6:C:18:VAL:CG2	6:C:240:VAL:HG11	2.00	0.90
12:K:90:ALA:O	12:K:94:ILE:HD13	1.69	0.90
4:A:455:MET:O	4:A:456:MET:CG	2.19	0.90
5:B:284:ILE:O	5:B:287:ARG:N	2.04	0.90
5:B:1076:HIS:CE1	12:K:40:HIS:CD2	2.58	0.90
11:J:3:VAL:N	11:J:53:HIS:NE2	2.18	0.90
5:B:953:LEU:HD23	5:B:953:LEU:C	1.95	0.90
5:B:1098:MET:CE	5:B:1098:MET:SD	2.60	0.90
9:H:125:LEU:CD1	9:H:125:LEU:HG	2.01	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:K:32:VAL:CG2	12:K:74:ARG:HG3	2.01	0.90
4:A:1132:LYS:O	4:A:1133:LEU:C	2.14	0.90
4:A:1193:LEU:HD12	4:A:1194:ARG:N	1.85	0.90
5:B:562:GLY:HA3	5:B:590:HIS:CE1	2.06	0.90
4:A:265:LYS:NZ	4:A:322:VAL:CB	2.34	0.90
4:A:531:ILE:HG12	4:A:622:VAL:HG11	1.52	0.90
4:A:575:LYS:HD3	4:A:612:ILE:HD11	1.53	0.90
4:A:1004:ASN:C	4:A:1004:ASN:OD1	2.15	0.90
4:A:1283:VAL:CG1	4:A:1284:MET:H	1.84	0.90
7:E:153:HIS:C	7:E:154:ILE:HG12	1.96	0.90
12:K:9:LEU:N	12:K:9:LEU:CD2	2.34	0.90
4:A:544:ASP:OD1	4:A:545:GLN:N	2.03	0.90
4:A:1067:LEU:HD21	4:A:1367:HIS:CE1	2.07	0.90
5:B:321:GLY:O	5:B:323:VAL:N	2.00	0.90
5:B:882:THR:CB	5:B:934:LYS:O	2.19	0.90
5:B:1077:THR:HG23	5:B:1079:LYS:H	1.35	0.90
4:A:874:ASP:OD1	4:A:876:ALA:N	2.05	0.90
4:A:1364:ASN:ND2	4:A:1366:ARG:H	1.69	0.90
5:B:466:TRP:C	5:B:475:SER:HB2	1.97	0.90
6:C:167:HIS:CD2	6:C:168:ALA:H	1.90	0.90
4:A:129:LYS:O	4:A:130:ASP:CB	2.20	0.89
5:B:293:PRO:O	5:B:295:GLY:N	2.04	0.89
5:B:798:TYR:C	5:B:799:PRO:O	2.13	0.89
7:E:46:TYR:CE2	7:E:58:MET:HA	2.06	0.89
7:E:60:PHE:HE2	7:E:80:VAL:HG21	1.37	0.89
13:L:50:ASP:C	13:L:50:ASP:HA	1.94	0.89
4:A:315:LEU:CB	4:A:315:LEU:HG	1.99	0.89
4:A:322:VAL:CG2	4:A:322:VAL:N	2.35	0.89
5:B:476:ARG:O	5:B:477:ALA:C	2.12	0.89
5:B:1151:LEU:CD1	5:B:1151:LEU:HG	2.01	0.89
7:E:116:ILE:O	7:E:118:PRO:HD3	1.71	0.89
5:B:113:TYR:O	5:B:114:PRO:C	1.91	0.89
5:B:230:ALA:O	5:B:261:ARG:HD2	1.72	0.89
4:A:946:VAL:CG1	4:A:947:PHE:CE1	2.55	0.89
5:B:93:GLY:O	5:B:94:LYS:O	1.90	0.89
5:B:798:TYR:N	5:B:799:PRO:CD	2.27	0.89
6:C:241:ASP:O	6:C:245:VAL:HG23	1.71	0.89
10:I:103:CYS:SG	10:I:104:LEU:N	2.44	0.89
4:A:598:LEU:HD13	9:H:25:ARG:NH1	1.88	0.89
10:I:96:SER:C	10:I:98:VAL:H	1.80	0.89
4:A:1023:ARG:O	4:A:1024:SER:C	2.05	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1283:VAL:CG1	4:A:1284:MET:N	2.36	0.89
5:B:363:HIS:O	5:B:364:ILE:HB	1.72	0.89
6:C:133:ILE:CG2	6:C:134:ILE:N	2.32	0.89
8:F:88:TYR:O	8:F:91:ALA:HB3	1.73	0.89
4:A:339:ASN:HB3	5:B:1117:GLN:NE2	1.88	0.89
4:A:609:ASP:O	4:A:611:GLN:N	2.06	0.89
4:A:1438:THR:CG2	4:A:1438:THR:HB	2.01	0.89
5:B:650:GLU:HG3	5:B:651:LEU:H	1.36	0.89
5:B:796:LEU:CD2	5:B:796:LEU:HG	2.01	0.89
2:T:16:DC:H2'	2:T:17:DG:C8	2.07	0.89
4:A:14:VAL:H	4:A:1432:GLN:HE22	0.92	0.89
4:A:1195:LEU:HD11	4:A:1267:MET:HE3	1.52	0.89
5:B:1111:MET:CE	5:B:1111:MET:SD	2.61	0.89
4:A:899:VAL:CG1	4:A:929:LEU:HD12	2.02	0.89
5:B:129:PHE:CD2	5:B:166:PHE:CB	2.56	0.89
5:B:882:THR:HB	5:B:934:LYS:O	1.73	0.89
5:B:986:GLN:CD	5:B:986:GLN:HA	1.98	0.89
5:B:1182:CYS:O	5:B:1183:LYS:O	1.91	0.89
4:A:313:GLN:O	4:A:314:ALA:CB	2.21	0.88
4:A:567:LYS:NZ	9:H:95:TYR:CZ	2.41	0.88
4:A:934:LYS:O	4:A:937:VAL:N	2.06	0.88
4:A:1410:PHE:O	4:A:1413:GLY:N	2.05	0.88
4:A:1057:VAL:HG12	4:A:1058:VAL:O	1.73	0.88
5:B:166:PHE:C	5:B:166:PHE:CD2	2.49	0.88
5:B:1077:THR:HG22	5:B:1079:LYS:N	1.88	0.88
6:C:134:ILE:HD12	6:C:141:GLY:HA3	1.55	0.88
4:A:318:SER:C	4:A:319:GLY:O	2.09	0.88
4:A:622:VAL:HA	4:A:630:ILE:HD11	1.55	0.88
5:B:128:LEU:CB	5:B:168:GLY:O	2.22	0.88
10:I:15:TYR:HB3	10:I:16:PRO:CD	2.02	0.88
4:A:89:PRO:O	4:A:204:THR:HG21	1.73	0.88
4:A:247:ARG:O	4:A:247:ARG:HG3	1.72	0.88
4:A:964:ILE:O	4:A:967:ALA:N	2.05	0.88
4:A:1026:LEU:CD2	4:A:1026:LEU:HG	2.01	0.88
4:A:1237:ILE:HG23	4:A:1238:ILE:N	1.87	0.88
4:A:381:THR:N	4:A:384:ASN:OD1	2.07	0.88
4:A:899:VAL:CG2	4:A:1029:ARG:NH1	2.37	0.88
4:A:978:PRO:O	4:A:978:PRO:HG2	1.73	0.88
4:A:998:LEU:CD2	4:A:998:LEU:HG	2.04	0.88
5:B:447:ALA:C	5:B:447:ALA:HA	1.99	0.88
5:B:1165:ILE:HG22	5:B:1166:CYS:CB	2.01	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:929:LEU:CD2	4:A:929:LEU:CB	2.51	0.88
5:B:1165:ILE:HG22	5:B:1166:CYS:N	1.88	0.88
6:C:119:VAL:O	6:C:119:VAL:CG1	2.21	0.88
7:E:111:VAL:CG1	7:E:111:VAL:O	2.22	0.88
3:N:11:DG:O3'	7:E:117:THR:HG22	1.72	0.88
4:A:68:GLN:OE1	4:A:68:GLN:O	1.90	0.88
4:A:135:PHE:CD2	4:A:135:PHE:C	2.51	0.88
4:A:743:VAL:O	4:A:747:VAL:HG23	1.73	0.88
5:B:1162:ILE:HD13	5:B:1168:LEU:C	1.97	0.88
4:A:26:GLU:O	4:A:29:ALA:N	2.07	0.88
4:A:114:LEU:HD13	4:A:171:GLN:NE2	1.88	0.88
4:A:526:ASP:CG	5:B:829:CYS:SG	2.57	0.88
5:B:882:THR:HG21	5:B:935:ARG:HA	1.55	0.88
4:A:531:ILE:CD1	4:A:649:ILE:HG21	2.04	0.88
4:A:1342:GLU:HG2	7:E:212:ARG:HH12	1.38	0.88
5:B:369:GLY:O	5:B:370:PHE:CD1	2.26	0.88
5:B:635:ARG:HD2	5:B:636:PRO:CD	2.03	0.88
7:E:168:TYR:C	7:E:169:ARG:HG2	1.96	0.88
4:A:820:GLY:C	4:A:820:GLY:O	0.63	0.88
4:A:1284:MET:HG2	4:A:1306:LEU:HD21	1.53	0.88
4:A:1319:VAL:HB	4:A:1322:ILE:HD12	1.54	0.88
5:B:101:MET:C	5:B:102:VAL:CG2	2.46	0.88
5:B:124:TYR:OH	5:B:179:CYS:HA	1.73	0.88
5:B:815:ARG:CG	5:B:815:ARG:HH11	1.86	0.88
4:A:714:PHE:CG	10:I:97:MET:HE1	2.09	0.87
4:A:839:ARG:O	4:A:843:LYS:HB2	1.73	0.87
4:A:1105:LEU:HB3	4:A:1384:VAL:HG23	1.56	0.87
5:B:1016:ALA:C	5:B:1017:ILE:CG1	2.46	0.87
6:C:196:ASP:O	6:C:200:GLU:HB2	1.74	0.87
6:C:260:LEU:CD2	6:C:260:LEU:CB	2.52	0.87
9:H:89:LEU:O	9:H:91:ASP:N	2.07	0.87
9:H:142:LEU:HD12	9:H:143:LEU:H	1.29	0.87
4:A:858:ASN:ND2	4:A:858:ASN:O	2.04	0.87
5:B:600:LEU:C	5:B:615:MET:HE1	2.00	0.87
6:C:33:LEU:HD12	6:C:37:MET:HE2	1.56	0.87
8:F:125:LEU:CD2	8:F:125:LEU:HG	2.02	0.87
9:H:93:TYR:CD1	9:H:143:LEU:HB2	2.09	0.87
9:H:116:TYR:CB	9:H:123:MET:HB3	2.03	0.87
12:K:78:THR:O	12:K:78:THR:HG22	1.74	0.87
4:A:106:VAL:HG12	4:A:107:CYS:N	1.88	0.87
4:A:265:LYS:HE3	4:A:323:LYS:CG	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:523:ILE:HD13	4:A:622:VAL:CG2	2.04	0.87
4:A:531:ILE:CG2	4:A:531:ILE:HB	2.04	0.87
4:A:583:PRO:O	4:A:610:GLY:HA3	1.75	0.87
5:B:133:LYS:C	5:B:133:LYS:HA	1.96	0.87
2:T:22:DT:H2"	2:T:23:DC:O5'	1.74	0.87
4:A:929:LEU:CD2	4:A:929:LEU:CA	2.53	0.87
4:A:1028:THR:O	4:A:1029:ARG:C	2.10	0.87
4:A:1042:PHE:CE2	4:A:1046:LEU:CD1	2.57	0.87
5:B:911:ILE:HG22	5:B:912:ILE:HG13	1.57	0.87
4:A:152:VAL:CB	4:A:152:VAL:C	2.48	0.87
5:B:660:LYS:O	5:B:663:ALA:CB	2.22	0.87
5:B:806:THR:HB	5:B:809:MET:HE3	1.53	0.87
5:B:882:THR:OG1	5:B:935:ARG:N	2.07	0.87
5:B:1099:VAL:O	5:B:1103:ILE:HD11	1.74	0.87
5:B:1106:ARG:HH21	5:B:1109:GLY:N	1.71	0.87
8:F:155:LEU:CD2	8:F:155:LEU:H	1.86	0.87
4:A:590:ARG:NH2	4:A:620:LYS:O	2.06	0.87
4:A:73:GLY:O	4:A:75:ASN:N	2.08	0.87
4:A:997:LEU:N	4:A:997:LEU:HD23	1.90	0.87
4:A:1282:VAL:C	4:A:1283:VAL:CG2	2.47	0.87
13:L:63:ARG:O	13:L:64:LEU:O	1.92	0.87
4:A:352:VAL:CG1	4:A:353:ILE:N	2.31	0.87
4:A:1004:ASN:ND2	7:E:167:ARG:CD	2.10	0.87
5:B:351:TYR:O	5:B:354:ASP:HB2	1.73	0.87
9:H:126:GLU:O	9:H:130:ARG:NH1	2.04	0.87
4:A:130:ASP:O	4:A:131:SER:C	2.18	0.87
4:A:657:LEU:O	4:A:658:LEU:C	2.15	0.87
5:B:114:PRO:CD	5:B:124:TYR:CE1	2.57	0.87
5:B:882:THR:CB	5:B:934:LYS:C	2.48	0.87
5:B:1099:VAL:O	5:B:1103:ILE:CD1	2.22	0.87
11:J:2:ILE:O	11:J:2:ILE:HG22	1.74	0.87
5:B:705:MET:H	5:B:710:LEU:CD1	1.87	0.86
5:B:912:ILE:HD11	5:B:966:VAL:HG23	1.57	0.86
5:B:1103:ILE:HD13	5:B:1103:ILE:N	1.89	0.86
5:B:1175:LEU:O	5:B:1176:ASN:HB2	1.00	0.86
7:E:29:PHE:O	7:E:30:ILE:CG1	2.22	0.86
4:A:900:ASP:HA	4:A:926:GLN:CD	1.99	0.86
4:A:1200:ALA:O	4:A:1203:ASN:N	2.08	0.86
4:A:1313:LEU:O	4:A:1316:VAL:N	2.08	0.86
5:B:633:VAL:O	5:B:634:TYR:HB3	1.74	0.86
4:A:83:HIS:O	4:A:83:HIS:CD2	2.27	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:933:TYR:CD2	4:A:933:TYR:O	2.27	0.86
5:B:46:GLN:HG3	5:B:47:GLN:N	1.89	0.86
5:B:201:GLY:H	5:B:202:TYR:HD2	1.23	0.86
5:B:640:VAL:HG23	5:B:739:THR:C	2.00	0.86
9:H:42:ILE:HD12	9:H:95:TYR:CZ	2.10	0.86
9:H:93:TYR:CD1	9:H:143:LEU:CB	2.59	0.86
10:I:16:PRO:O	10:I:16:PRO:CD	2.23	0.86
4:A:91:PHE:CA	4:A:297:GLN:HE22	1.88	0.86
4:A:351:THR:CG2	5:B:1103:ILE:CD1	2.51	0.86
4:A:476:SER:O	4:A:477:PRO:C	2.06	0.86
4:A:541:ILE:CG2	4:A:546:VAL:HG22	2.05	0.86
4:A:1385:THR:CG2	4:A:1385:THR:CA	2.53	0.86
5:B:65:GLU:H	5:B:67:SER:HB3	1.40	0.86
5:B:557:PHE:C	5:B:557:PHE:CD2	2.50	0.86
12:K:12:LEU:HD12	12:K:12:LEU:H	1.19	0.86
4:A:889:SER:HB2	4:A:892:ALA:H	1.40	0.86
4:A:1390:ASN:ND2	4:A:1399:ARG:CB	2.38	0.86
5:B:639:ILE:HG22	5:B:640:VAL:N	1.88	0.86
2:T:25:DC:H2"	2:T:26:DG:H5'	1.56	0.86
4:A:91:PHE:H	4:A:297:GLN:NE2	1.69	0.86
4:A:279:LEU:O	4:A:282:ASN:O	1.93	0.86
4:A:736:ASN:HD22	4:A:736:ASN:N	1.70	0.86
11:J:2:ILE:O	11:J:53:HIS:NE2	2.06	0.86
4:A:820:GLY:CA	4:A:821:ARG:N	2.39	0.86
5:B:122:LEU:CD1	5:B:122:LEU:CB	2.54	0.86
5:B:274:PRO:O	5:B:276:ILE:CG1	2.21	0.86
4:A:929:LEU:HD23	4:A:929:LEU:H	1.39	0.86
5:B:723:VAL:O	5:B:724:ASP:C	2.17	0.86
7:E:173:SER:HB2	7:E:177:ARG:NH2	1.89	0.86
10:I:48:LEU:CD1	10:I:48:LEU:HG	2.05	0.86
4:A:1195:LEU:HD11	4:A:1267:MET:HE1	1.58	0.86
5:B:42:GLY:C	5:B:43:LEU:HD23	2.00	0.86
6:C:43:THR:HG23	6:C:44:LEU:H	1.39	0.86
4:A:103:CYS:O	4:A:104:GLU:C	2.19	0.86
4:A:543:LEU:HD11	4:A:547:LEU:HD11	1.57	0.86
4:A:608:ILE:C	4:A:609:ASP:O	2.16	0.86
5:B:805:THR:HA	5:B:809:MET:HE1	1.55	0.86
6:C:22:LEU:CD2	6:C:25:VAL:HG21	2.06	0.86
6:C:40:GLU:OE1	6:C:254:LYS:NZ	2.09	0.86
10:I:42:LEU:O	10:I:43:VAL:CG2	2.23	0.86
2:T:28:DT:H2"	4:A:317:LYS:HG3	1.54	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:528:LEU:O	4:A:528:LEU:CD1	2.23	0.85
4:A:658:LEU:CD1	4:A:658:LEU:HG	2.03	0.85
4:A:1100:ARG:O	4:A:1101:LEU:C	2.17	0.85
4:A:1161:THR:CG2	4:A:1163:ILE:HG13	2.06	0.85
4:A:1189:SER:O	4:A:1241:ARG:HD3	1.76	0.85
5:B:784:ASN:ND2	5:B:788:ARG:HD2	1.91	0.85
5:B:986:GLN:HA	5:B:986:GLN:OE1	1.74	0.85
10:I:96:SER:HB2	10:I:98:VAL:HG23	1.58	0.85
4:A:946:VAL:CG1	4:A:947:PHE:CD1	2.60	0.85
5:B:912:ILE:HD11	5:B:966:VAL:CG2	2.06	0.85
6:C:100:THR:HB	6:C:119:VAL:CG1	2.06	0.85
7:E:168:TYR:C	7:E:169:ARG:CG	2.49	0.85
5:B:266:ALA:CA	5:B:267:ARG:N	2.39	0.85
5:B:485:ARG:HH11	5:B:485:ARG:HG2	1.38	0.85
5:B:597:MET:O	5:B:600:LEU:HB2	1.75	0.85
5:B:756:ILE:HG21	5:B:759:PRO:HB3	1.57	0.85
4:A:55:ASP:O	4:A:58:LEU:N	2.09	0.85
4:A:622:VAL:HG22	4:A:622:VAL:O	1.75	0.85
5:B:633:VAL:HG12	5:B:634:TYR:N	1.88	0.85
5:B:634:TYR:C	5:B:635:ARG:HG2	2.00	0.85
5:B:977:GLY:HA3	5:B:1099:VAL:HG21	1.57	0.85
5:B:984:HIS:HD2	5:B:1024:ALA:HB3	1.40	0.85
4:A:899:VAL:HG23	4:A:1029:ARG:NH1	1.92	0.85
5:B:45:SER:O	5:B:46:GLN:C	2.19	0.85
5:B:647:GLY:O	5:B:648:HIS:CD2	2.29	0.85
5:B:955:THR:CG2	5:B:956:THR:N	2.32	0.85
7:E:7:ARG:O	7:E:9:ILE:N	2.10	0.85
4:A:1209:MET:O	4:A:1212:VAL:HB	1.75	0.85
5:B:69:LEU:HB2	5:B:90:ILE:HB	1.59	0.85
5:B:1074:ASN:OD1	5:B:1074:ASN:O	1.94	0.85
10:I:75:CYS:SG	10:I:78:CYS:HB3	2.16	0.85
4:A:125:ALA:C	4:A:125:ALA:HA	1.99	0.85
4:A:401:GLY:O	4:A:435:HIS:CD2	2.27	0.85
4:A:736:ASN:H	4:A:736:ASN:ND2	1.74	0.85
4:A:775:ILE:O	4:A:775:ILE:HG22	1.77	0.85
4:A:1048:ASN:O	4:A:1051:ALA:HB3	1.76	0.85
5:B:132:VAL:O	5:B:132:VAL:CG1	2.12	0.85
5:B:527:THR:OG1	5:B:528:PRO:CD	2.25	0.85
6:C:242:GLN:HE21	6:C:246:ARG:HE	1.21	0.85
7:E:124:VAL:HG22	7:E:132:ILE:HG22	1.58	0.85
9:H:19:ARG:O	9:H:20:TYR:CG	2.30	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:321:PRO:N	4:A:322:VAL:HG12	1.91	0.85
4:A:1208:THR:O	4:A:1211:GLN:N	2.08	0.85
5:B:55:VAL:HG12	5:B:56:ASP:N	1.90	0.85
5:B:167:ILE:HG23	5:B:424:LEU:CD1	2.04	0.85
5:B:476:ARG:C	5:B:478:GLY:N	2.34	0.85
5:B:1077:THR:CG2	5:B:1079:LYS:N	2.38	0.85
6:C:11:ARG:HE	6:C:21:ILE:HD11	1.42	0.85
9:H:104:PHE:CZ	9:H:136:LYS:HA	2.12	0.85
11:J:3:VAL:CG2	11:J:3:VAL:HB	2.05	0.85
5:B:815:ARG:HH11	5:B:815:ARG:HG3	1.40	0.85
5:B:1099:VAL:HG12	5:B:1103:ILE:CD1	2.06	0.85
10:I:42:LEU:CD1	10:I:43:VAL:N	2.35	0.85
4:A:134:ARG:O	4:A:138:ILE:N	2.09	0.85
4:A:601:LYS:HB3	4:A:603:ASN:OD1	1.77	0.85
4:A:650:GLN:O	4:A:654:ASN:HB2	1.77	0.85
4:A:779:PHE:CE1	4:A:785:PRO:CD	2.60	0.85
5:B:174:LEU:HD12	5:B:179:CYS:SG	2.16	0.85
5:B:830:TYR:CE1	5:B:1000:PRO:HB3	2.11	0.85
5:B:1221:SER:CA	5:B:1222:ARG:N	2.39	0.85
8:F:111:LEU:HD13	8:F:111:LEU:H	1.40	0.85
1:R:5:A:N1	1:R:6:G:C6	2.44	0.84
4:A:532:ARG:CG	4:A:532:ARG:C	2.50	0.84
5:B:297:ILE:O	5:B:299:GLU:N	2.09	0.84
5:B:326:ASP:N	5:B:326:ASP:OD1	2.07	0.84
5:B:477:ALA:CB	5:B:479:VAL:N	2.39	0.84
5:B:642:ASP:C	5:B:644:GLU:N	2.34	0.84
5:B:712:PRO:O	5:B:712:PRO:HD2	1.00	0.84
4:A:414:ASP:O	4:A:416:ARG:N	2.09	0.84
7:E:195:VAL:HG22	7:E:213:ILE:HD13	1.57	0.84
9:H:47:PHE:HB3	9:H:95:TYR:HD1	1.42	0.84
4:A:103:CYS:C	4:A:105:CYS:H	1.86	0.84
4:A:1166:ASP:OD2	4:A:1239:ARG:NE	2.08	0.84
5:B:641:GLU:O	5:B:643:ASP:HB2	1.77	0.84
5:B:955:THR:CG2	5:B:956:THR:H	1.86	0.84
5:B:956:THR:O	5:B:956:THR:HG22	1.77	0.84
4:A:119:ASN:O	4:A:122:MET:HB3	1.76	0.84
4:A:237:THR:HB	4:A:238:CYS:HB3	1.56	0.84
4:A:1389:PHE:HD1	4:A:1389:PHE:C	1.81	0.84
5:B:166:PHE:C	5:B:166:PHE:HD2	1.83	0.84
7:E:50:MET:CE	7:E:50:MET:SD	2.65	0.84
10:I:106:CYS:SG	10:I:108:HIS:HB2	2.17	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:43:GLU:O	4:A:46:THR:HB	1.78	0.84
4:A:921:GLY:C	4:A:922:ASP:O	2.17	0.84
6:C:34:ARG:HA	6:C:37:MET:HE3	1.57	0.84
6:C:73:GLN:CG	6:C:74:SER:N	2.40	0.84
4:A:261:ASP:CB	4:A:323:LYS:HD2	2.07	0.84
4:A:332:LYS:HG3	4:A:333:GLU:HG2	1.60	0.84
4:A:1282:VAL:HG13	4:A:1283:VAL:N	1.93	0.84
4:A:1372:VAL:O	4:A:1375:MET:HB2	1.75	0.84
5:B:426:LYS:O	5:B:426:LYS:HG2	1.77	0.84
5:B:640:VAL:HG23	5:B:740:HIS:N	1.92	0.84
7:E:90:VAL:CG1	7:E:90:VAL:HB	2.07	0.84
4:A:321:PRO:C	4:A:322:VAL:HG22	2.02	0.84
4:A:779:PHE:CE1	4:A:785:PRO:HD3	2.13	0.84
5:B:63:ILE:HG12	5:B:421:PHE:CZ	2.12	0.84
5:B:634:TYR:CE1	5:B:692:TYR:CD1	2.65	0.84
5:B:1051:THR:CG2	5:B:1052:VAL:N	2.39	0.84
6:C:51:VAL:HG22	6:C:155:LEU:HD22	1.60	0.84
6:C:98:VAL:CA	6:C:99:LEU:HD23	2.06	0.84
7:E:39:LEU:O	7:E:40:GLU:C	2.20	0.84
8:F:101:ILE:HD11	8:F:121:ALA:HB2	1.58	0.84
4:A:265:LYS:C	4:A:267:ALA:H	1.85	0.84
4:A:419:LYS:NZ	4:A:419:LYS:HB3	1.91	0.84
4:A:1172:LEU:HD23	4:A:1172:LEU:H	1.41	0.84
5:B:63:ILE:HA	5:B:421:PHE:CE2	2.12	0.84
7:E:189:GLY:C	7:E:190:LEU:HD23	2.02	0.84
4:A:273:ASN:N	4:A:296:LEU:HD11	1.93	0.84
4:A:464:PRO:O	4:A:464:PRO:HG2	1.77	0.84
4:A:605:MET:HE1	4:A:615:GLY:O	1.77	0.84
4:A:901:LEU:CG	4:A:926:GLN:HG2	2.06	0.84
4:A:1155:ASP:OD2	4:A:1162:VAL:HG23	1.78	0.84
4:A:1198:ASP:OD1	4:A:1199:ARG:N	2.10	0.84
4:A:1389:PHE:O	4:A:1389:PHE:CD1	2.30	0.84
5:B:843:GLN:HG3	5:B:843:GLN:O	1.77	0.84
4:A:414:ASP:C	4:A:414:ASP:OD1	2.18	0.84
4:A:596:THR:HB	4:A:596:THR:C	2.01	0.84
4:A:1053:PHE:HD2	4:A:1054:LEU:H	1.23	0.84
5:B:1076:HIS:CE1	12:K:40:HIS:NE2	2.46	0.84
5:B:1115:THR:CG2	5:B:1117:GLN:CG	2.55	0.84
7:E:178:ILE:CG2	7:E:214:CYS:HB2	2.07	0.84
4:A:666:ILE:HA	5:B:1026:LEU:CD1	2.07	0.83
4:A:1212:VAL:O	4:A:1216:ILE:HG13	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:449:ASN:OD1	5:B:449:ASN:C	2.18	0.83
5:B:498:THR:O	5:B:498:THR:HG22	1.77	0.83
5:B:847:ASP:HB3	6:C:167:HIS:HD2	1.41	0.83
5:B:882:THR:CG2	5:B:934:LYS:O	2.25	0.83
4:A:139:TRP:O	4:A:140:THR:C	2.17	0.83
4:A:239:LEU:HD12	4:A:240:PRO:O	1.77	0.83
4:A:399:HIS:CB	4:A:400:PRO:CD	2.56	0.83
4:A:978:PRO:O	4:A:979:SER:O	1.95	0.83
4:A:1366:ARG:HG2	4:A:1366:ARG:HH11	1.43	0.83
5:B:236:HIS:CD2	5:B:389:ALA:CB	2.60	0.83
4:A:470:LEU:CD2	4:A:470:LEU:HG	2.04	0.83
5:B:114:PRO:O	5:B:115:GLN:C	2.18	0.83
9:H:110:ASP:CB	9:H:110:ASP:N	2.42	0.83
4:A:440:ASP:HB3	4:A:441:PRO:HD2	1.60	0.83
4:A:989:GLY:O	4:A:992:ASP:N	2.10	0.83
4:A:1118:VAL:CG1	4:A:1118:VAL:HB	2.07	0.83
4:A:1444:MET:C	4:A:1444:MET:HA	2.02	0.83
5:B:266:ALA:C	5:B:266:ALA:HA	2.02	0.83
5:B:846:ILE:HG23	5:B:974:PRO:HG2	1.60	0.83
5:B:1060:ARG:C	5:B:1062:HIS:N	2.37	0.83
10:I:35:VAL:CG1	10:I:36:GLU:N	2.38	0.83
4:A:316:GLN:CA	4:A:317:LYS:N	2.40	0.83
4:A:421:ALA:HA	4:A:424:ILE:HD11	1.60	0.83
5:B:497:ARG:CG	5:B:497:ARG:NE	2.41	0.83
7:E:42:PHE:HZ	7:E:58:MET:HE1	1.40	0.83
8:F:81:THR:HG22	8:F:136:ARG:HH11	1.43	0.83
8:F:153:VAL:CG1	8:F:153:VAL:HB	2.06	0.83
4:A:135:PHE:HD1	4:A:222:LEU:HB2	1.44	0.83
4:A:247:ARG:O	4:A:247:ARG:CG	2.27	0.83
5:B:95:ILE:O	5:B:95:ILE:CG2	2.27	0.83
5:B:356:LEU:O	5:B:357:GLN:HG3	1.79	0.83
5:B:866:TYR:CB	5:B:866:TYR:HA	2.08	0.83
6:C:43:THR:HG23	6:C:44:LEU:N	1.93	0.83
8:F:97:ARG:HD3	8:F:100:GLN:OE1	1.78	0.83
4:A:351:THR:HG23	5:B:1103:ILE:CD1	2.07	0.83
4:A:573:SER:HG	4:A:575:LYS:HB2	1.43	0.83
5:B:364:ILE:HD13	5:B:585:VAL:HG22	1.60	0.83
5:B:1202:LEU:O	5:B:1203:LEU:C	2.22	0.83
7:E:43:LYS:O	7:E:47:CYS:CB	2.25	0.83
13:L:64:LEU:CD2	13:L:64:LEU:CB	2.57	0.83
4:A:401:GLY:O	4:A:435:HIS:CB	2.26	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1015:VAL:O	4:A:1018:PHE:N	2.12	0.83
4:A:1280:GLU:C	4:A:1281:ARG:O	2.19	0.83
4:A:1339:LEU:CD1	7:E:147:HIS:CD2	2.61	0.83
5:B:112:LEU:CD1	5:B:113:TYR:H	1.90	0.83
5:B:175:ARG:HG2	5:B:175:ARG:NH1	1.90	0.83
5:B:352:ALA:O	5:B:354:ASP:N	2.10	0.83
5:B:653:VAL:HG12	5:B:654:ARG:H	1.43	0.83
5:B:752:ALA:O	5:B:753:ALA:C	2.09	0.83
5:B:882:THR:CG2	5:B:935:ARG:HA	2.08	0.83
6:C:63:ILE:O	6:C:66:ARG:N	2.11	0.83
10:I:19:ASP:O	10:I:23:ASN:HA	1.78	0.83
12:K:43:GLY:HA2	12:K:71:PHE:CZ	2.13	0.83
12:K:70:ARG:O	12:K:71:PHE:HB3	1.78	0.83
4:A:58:LEU:CD2	4:A:243:PRO:HB3	2.08	0.83
4:A:224:PHE:CZ	4:A:231:PRO:HG3	2.14	0.83
5:B:321:GLY:O	5:B:324:ILE:N	2.11	0.83
7:E:98:ILE:O	7:E:100:ILE:N	2.12	0.83
7:E:190:LEU:CD2	7:E:190:LEU:CA	2.57	0.83
9:H:135:LEU:HD22	9:H:136:LYS:HD3	1.61	0.83
12:K:10:PHE:CE1	12:K:11:LEU:HD13	2.14	0.83
4:A:590:ARG:CG	4:A:590:ARG:NH1	2.12	0.83
4:A:1007:ILE:O	4:A:1010:ALA:CB	2.26	0.83
5:B:487:THR:HG22	5:B:489:SER:N	1.93	0.83
6:C:164:ALA:C	6:C:166:GLU:H	1.87	0.83
7:E:85:GLU:OE2	7:E:92:THR:CG2	2.26	0.83
9:H:3:ASN:N	9:H:3:ASN:HA	1.93	0.83
4:A:265:LYS:O	4:A:267:ALA:N	2.12	0.82
4:A:1026:LEU:CD2	4:A:1026:LEU:HA	2.09	0.82
4:A:1329:THR:CG2	4:A:1331:SER:H	1.91	0.82
5:B:168:GLY:C	5:B:454:THR:OG1	2.22	0.82
5:B:423:LYS:O	5:B:424:LEU:C	2.16	0.82
5:B:426:LYS:O	5:B:430:ARG:NH1	2.12	0.82
5:B:984:HIS:CD2	5:B:1024:ALA:HB3	2.13	0.82
6:C:115:SER:HB3	6:C:141:GLY:O	1.79	0.82
6:C:143:LEU:C	6:C:143:LEU:HD12	2.03	0.82
9:H:59:ILE:O	9:H:60:ALA:HB3	1.77	0.82
4:A:905:ASP:CB	4:A:905:ASP:HA	2.06	0.82
4:A:1227:ILE:CG2	4:A:1228:TRP:N	2.41	0.82
5:B:882:THR:CG2	5:B:883:LEU:N	2.42	0.82
6:C:146:LYS:NZ	11:J:58:GLU:OE2	2.13	0.82
4:A:11:LEU:O	4:A:12:ARG:HG3	1.78	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:559:VAL:O	4:A:560:ILE:C	2.10	0.82
5:B:653:VAL:HG12	5:B:654:ARG:N	1.94	0.82
5:B:1016:ALA:O	5:B:1017:ILE:HG12	1.79	0.82
5:B:1171:VAL:HG12	5:B:1172:ILE:H	1.45	0.82
5:B:1203:LEU:C	5:B:1203:LEU:CD1	2.50	0.82
7:E:12:LEU:HD21	7:E:58:MET:SD	2.19	0.82
4:A:90:VAL:HG11	4:A:297:GLN:CA	2.10	0.82
4:A:305:ASP:C	4:A:306:ASN:ND2	2.38	0.82
5:B:101:MET:C	5:B:102:VAL:HG23	2.01	0.82
5:B:164:LYS:C	5:B:164:LYS:HA	2.03	0.82
5:B:175:ARG:HH11	5:B:175:ARG:CG	1.92	0.82
4:A:1283:VAL:HG12	4:A:1284:MET:H	1.41	0.82
5:B:1191:ILE:HG23	5:B:1192:TYR:N	1.94	0.82
6:C:86:CYS:HB3	6:C:88:CYS:H	1.45	0.82
7:E:157:SER:O	7:E:159:ASP:N	2.12	0.82
8:F:120:ILE:HG22	8:F:121:ALA:N	1.95	0.82
9:H:58:THR:HG22	9:H:59:ILE:CA	2.09	0.82
4:A:1397:LEU:O	4:A:1400:CYS:HB2	1.79	0.82
5:B:273:LEU:C	5:B:274:PRO:O	2.19	0.82
5:B:449:ASN:HD21	5:B:451:LYS:HD2	1.43	0.82
5:B:870:ILE:CG2	5:B:870:ILE:HB	2.05	0.82
4:A:1203:ASN:O	4:A:1204:ASP:C	2.22	0.82
5:B:492:LEU:HB3	5:B:751:VAL:HG21	1.61	0.82
5:B:640:VAL:HG23	5:B:740:HIS:CA	2.09	0.82
7:E:39:LEU:O	7:E:42:PHE:N	2.13	0.82
9:H:126:GLU:C	9:H:130:ARG:HH11	1.84	0.82
13:L:64:LEU:CD1	13:L:64:LEU:HG	2.08	0.82
4:A:179:LEU:HD13	4:A:297:GLN:HG2	1.60	0.82
4:A:237:THR:HB	4:A:238:CYS:N	1.95	0.82
4:A:614:PHE:CD1	4:A:614:PHE:C	2.55	0.82
4:A:842:VAL:O	4:A:842:VAL:CG1	2.26	0.82
5:B:474:SER:O	5:B:476:ARG:N	2.13	0.82
9:H:42:ILE:O	9:H:42:ILE:HG22	1.79	0.82
12:K:49:GLU:O	12:K:51:LEU:N	2.12	0.82
13:L:27:LEU:O	13:L:28:LYS:HG2	1.79	0.82
4:A:380:VAL:CG2	4:A:430:TRP:O	2.27	0.82
4:A:495:GLU:O	4:A:498:ARG:HG3	1.80	0.82
4:A:522:GLY:C	4:A:523:ILE:HD12	2.03	0.82
4:A:805:LEU:HD12	4:A:805:LEU:O	1.80	0.82
5:B:223:VAL:CG1	5:B:223:VAL:O	2.27	0.82
5:B:956:THR:OG1	5:B:961:LEU:O	1.96	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:1165:ILE:CG2	5:B:1166:CYS:HB3	2.04	0.82
4:A:219:PHE:O	4:A:222:LEU:O	1.97	0.82
4:A:367:PRO:HG2	4:A:370:ILE:HD12	1.62	0.82
4:A:523:ILE:HG22	4:A:528:LEU:HB2	1.60	0.82
4:A:588:LEU:O	4:A:607:ILE:N	2.12	0.82
4:A:1242:VAL:HG12	4:A:1243:VAL:H	1.43	0.82
5:B:234:ILE:HD13	5:B:234:ILE:H	1.44	0.82
6:C:206:ASN:ND2	6:C:229:TYR:CD2	2.47	0.82
4:A:573:SER:OG	4:A:575:LYS:HB2	1.80	0.81
4:A:886:ILE:HG12	4:A:943:LEU:CD1	2.10	0.81
4:A:1284:MET:HG2	4:A:1306:LEU:CD2	2.09	0.81
4:A:1325:THR:HG22	4:A:1326:ARG:HG3	1.61	0.81
7:E:118:PRO:O	7:E:122:LYS:HD2	1.79	0.81
7:E:199:ILE:O	7:E:199:ILE:CG2	2.25	0.81
9:H:142:LEU:C	9:H:143:LEU:HG	2.04	0.81
4:A:900:ASP:O	4:A:907:THR:HA	1.80	0.81
5:B:744:HIS:HD2	5:B:746:SER:OG	1.62	0.81
5:B:788:ARG:NH1	5:B:790:ASP:OD1	2.13	0.81
10:I:62:ILE:CG2	10:I:63:GLY:N	2.43	0.81
4:A:218:ASP:O	4:A:222:LEU:HD12	1.80	0.81
4:A:265:LYS:HZ2	4:A:322:VAL:HB	1.36	0.81
4:A:316:GLN:N	4:A:317:LYS:H	1.78	0.81
4:A:405:VAL:HG12	4:A:406:ILE:N	1.91	0.81
4:A:519:PRO:O	4:A:519:PRO:HG2	1.80	0.81
4:A:1389:PHE:CE1	4:A:1390:ASN:OD1	2.32	0.81
5:B:63:ILE:CG1	5:B:421:PHE:CZ	2.63	0.81
5:B:431:TYR:CD1	5:B:447:ALA:CB	2.62	0.81
5:B:805:THR:HA	5:B:809:MET:CE	2.10	0.81
7:E:20:LYS:O	7:E:23:VAL:N	2.12	0.81
8:F:83:PRO:CD	8:F:84:TYR:H	1.90	0.81
8:F:98:ALA:HA	8:F:101:ILE:HD12	1.61	0.81
9:H:109:LYS:CB	9:H:110:ASP:CG	2.53	0.81
4:A:26:GLU:O	4:A:27:VAL:C	2.22	0.81
4:A:58:LEU:HD22	4:A:243:PRO:CB	2.10	0.81
4:A:182:VAL:HG12	4:A:182:VAL:O	1.81	0.81
4:A:220:THR:O	4:A:221:SER:C	2.15	0.81
4:A:1445:ILE:CB	4:A:1445:ILE:N	2.44	0.81
8:F:81:THR:HG22	8:F:136:ARG:NH1	1.94	0.81
9:H:138:GLU:C	9:H:139:ASN:O	2.22	0.81
13:L:50:ASP:CA	13:L:51:CYS:N	2.44	0.81
4:A:139:TRP:O	4:A:141:LEU:N	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:230:ARG:O	4:A:233:TRP:HB2	1.80	0.81
4:A:286:HIS:C	4:A:286:HIS:HA	2.00	0.81
4:A:635:ARG:HH21	4:A:877:HIS:HA	1.45	0.81
4:A:946:VAL:HG11	4:A:947:PHE:CE1	2.14	0.81
5:B:863:GLU:OE2	5:B:872:GLU:O	1.99	0.81
6:C:52:GLU:OE2	6:C:154:LYS:HG2	1.80	0.81
4:A:70:CYS:O	4:A:71:GLN:OE1	1.98	0.81
4:A:138:ILE:HG22	4:A:139:TRP:N	1.93	0.81
4:A:321:PRO:C	4:A:321:PRO:CD	2.53	0.81
4:A:1036:ARG:O	4:A:1037:LEU:O	1.96	0.81
4:A:1159:ARG:O	4:A:1160:SER:HB3	1.78	0.81
4:A:1170:ILE:O	4:A:1171:GLN:O	1.99	0.81
11:J:52:THR:C	11:J:52:THR:HA	2.02	0.81
4:A:57:ARG:HB3	4:A:68:GLN:CB	2.10	0.81
4:A:103:CYS:C	4:A:105:CYS:N	2.39	0.81
4:A:302:THR:HA	4:A:305:ASP:O	1.81	0.81
4:A:993:LEU:HD11	4:A:997:LEU:HD21	1.63	0.81
4:A:1036:ARG:HG3	4:A:1036:ARG:HH11	1.46	0.81
5:B:26:THR:O	5:B:27:ALA:C	2.22	0.81
5:B:550:ASP:OD1	5:B:551:PRO:HD3	1.78	0.81
5:B:860:MET:CG	5:B:861:ASP:H	1.94	0.81
5:B:980:PHE:O	5:B:981:ALA:CB	2.19	0.81
6:C:46:ILE:HG21	6:C:157:CYS:HB3	1.62	0.81
6:C:205:LYS:HG3	6:C:208:GLU:OE1	1.80	0.81
4:A:325:ILE:CG2	4:A:325:ILE:O	2.29	0.81
4:A:341:MET:HB3	4:A:341:MET:HE2	1.63	0.81
5:B:474:SER:C	5:B:476:ARG:N	2.33	0.81
4:A:49:LYS:HZ1	4:A:60:SER:CA	1.94	0.81
4:A:244:PRO:CG	4:A:245:PRO:HD2	2.11	0.81
4:A:404:TYR:CD1	4:A:404:TYR:N	2.45	0.81
4:A:527:THR:O	4:A:527:THR:CG2	2.27	0.81
4:A:1438:THR:CG2	4:A:1438:THR:CA	2.58	0.81
12:K:83:PRO:HA	12:K:86:ALA:HB3	1.63	0.81
4:A:58:LEU:HD22	4:A:243:PRO:HB3	1.63	0.81
4:A:460:VAL:HG12	4:A:461:LYS:N	1.93	0.81
4:A:691:LEU:C	4:A:691:LEU:CD1	2.51	0.81
4:A:805:LEU:HD12	4:A:805:LEU:C	2.06	0.81
8:F:90:ARG:O	8:F:94:LEU:HB2	1.81	0.81
10:I:47:GLU:OE1	10:I:50:THR:HG23	1.80	0.81
13:L:29:TYR:HB3	13:L:56:LEU:HD22	1.63	0.81
4:A:116:ASP:O	4:A:119:ASN:N	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:237:THR:CB	4:A:237:THR:C	2.53	0.80
4:A:445:ASN:HB3	4:A:455:MET:HE2	1.63	0.80
4:A:1111:MET:HE3	4:A:1111:MET:HB2	1.62	0.80
5:B:244:LEU:CD2	5:B:244:LEU:HG	2.09	0.80
5:B:778:MET:HE3	5:B:853:SER:CB	2.11	0.80
5:B:882:THR:N	5:B:882:THR:HA	1.95	0.80
5:B:1106:ARG:HH21	5:B:1109:GLY:C	1.89	0.80
7:E:31:THR:CB	7:E:31:THR:C	2.54	0.80
4:A:218:ASP:O	4:A:219:PHE:O	2.00	0.80
4:A:463:ILE:HB	4:A:464:PRO:HD2	1.62	0.80
4:A:483:ASP:OD2	4:A:483:ASP:N	2.13	0.80
4:A:528:LEU:HD13	4:A:531:ILE:HG23	1.63	0.80
4:A:1423:GLY:O	4:A:1424:VAL:C	2.22	0.80
5:B:179:CYS:SG	5:B:181:LEU:HD12	2.21	0.80
6:C:58:LEU:HD21	11:J:57:ILE:HD13	1.62	0.80
7:E:35:VAL:O	7:E:37:LEU:N	2.13	0.80
9:H:144:ILE:CG2	9:H:144:ILE:CA	2.59	0.80
12:K:82:ASP:OD1	12:K:83:PRO:HG2	1.80	0.80
4:A:339:ASN:HB3	5:B:1117:GLN:HE22	1.46	0.80
4:A:1364:ASN:HD21	4:A:1366:ARG:H	1.29	0.80
5:B:175:ARG:NH1	5:B:175:ARG:CG	2.45	0.80
5:B:532:ALA:CB	5:B:532:ALA:N	2.44	0.80
8:F:101:ILE:CG2	8:F:101:ILE:HB	2.08	0.80
10:I:25:LEU:O	10:I:26:LEU:HD23	1.81	0.80
12:K:1:MET:CG	12:K:1:MET:O	2.30	0.80
12:K:70:ARG:O	12:K:71:PHE:CB	2.23	0.80
12:K:93:SER:O	12:K:97:LYS:HG3	1.81	0.80
4:A:40:THR:HG21	4:A:259:GLU:OE2	1.81	0.80
4:A:399:HIS:O	4:A:401:GLY:N	2.14	0.80
4:A:946:VAL:HG12	4:A:947:PHE:CE1	2.14	0.80
4:A:1015:VAL:CG1	4:A:1019:CYS:SG	2.70	0.80
5:B:325:GLN:NE2	10:I:12:ASN:OD1	2.14	0.80
5:B:482:VAL:C	5:B:483:LEU:O	2.14	0.80
5:B:1007:VAL:HG13	5:B:1008:PRO:N	1.93	0.80
5:B:1184:GLY:O	5:B:1186:ASP:OD2	1.98	0.80
6:C:164:ALA:C	6:C:166:GLU:N	2.36	0.80
7:E:47:CYS:HA	7:E:52:ARG:O	1.81	0.80
9:H:36:CYS:SG	9:H:130:ARG:NH2	2.54	0.80
4:A:318:SER:O	4:A:319:GLY:O	2.00	0.80
4:A:492:PRO:C	4:A:493:GLN:NE2	2.40	0.80
4:A:1026:LEU:HA	4:A:1026:LEU:HD23	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:708:GLU:C	5:B:710:LEU:N	2.38	0.80
7:E:116:ILE:HG21	7:E:121:MET:HG2	1.62	0.80
11:J:7:CYS:HA	11:J:49:MET:HE3	1.62	0.80
4:A:114:LEU:O	4:A:115:LEU:CD2	2.30	0.80
4:A:754:SER:OG	4:A:757:ASN:ND2	2.13	0.80
4:A:1009:ASN:O	4:A:1013:ASP:OD2	1.97	0.80
4:A:1029:ARG:O	4:A:1033:GLN:N	2.12	0.80
4:A:1099:PRO:HG2	4:A:1100:ARG:H	1.47	0.80
5:B:185:THR:HG21	5:B:188:ASP:OD2	1.82	0.80
5:B:781:PHE:O	5:B:782:LEU:HG	1.80	0.80
6:C:129:ILE:HG22	6:C:129:ILE:O	1.81	0.80
5:B:377:PHE:O	5:B:379:GLY:N	2.15	0.80
5:B:536:VAL:HG12	5:B:537:LYS:N	1.93	0.80
5:B:701:ILE:HG12	5:B:702:LEU:N	1.97	0.80
6:C:18:VAL:HG21	6:C:240:VAL:CG1	2.11	0.80
6:C:198:ALA:C	6:C:200:GLU:H	1.90	0.80
10:I:35:VAL:HG13	10:I:36:GLU:N	1.96	0.80
2:T:20:DC:C2'	2:T:21:DC:C5'	2.45	0.80
4:A:599:SER:O	4:A:601:LYS:N	2.14	0.80
4:A:645:LEU:O	4:A:649:ILE:HG13	1.81	0.80
4:A:1236:LEU:C	4:A:1237:ILE:HG13	2.05	0.80
4:A:1366:ARG:O	4:A:1369:ALA:HB3	1.80	0.80
4:A:1436:ILE:O	4:A:1437:GLY:C	2.24	0.80
6:C:121:VAL:CG1	6:C:121:VAL:CA	2.56	0.80
10:I:19:ASP:HB3	10:I:24:ARG:HG2	1.62	0.80
4:A:315:LEU:CB	4:A:315:LEU:HA	2.07	0.80
4:A:553:VAL:HG13	4:A:648:ASN:HB3	1.63	0.80
5:B:710:LEU:O	5:B:711:GLU:HG2	1.82	0.80
6:C:33:LEU:CD1	6:C:37:MET:CE	2.60	0.80
4:A:122:MET:O	4:A:123:ARG:C	2.25	0.80
4:A:967:ALA:HB2	4:A:1044:TRP:CZ3	2.16	0.80
4:A:1102:LYS:O	4:A:1106:ASN:ND2	2.13	0.80
5:B:515:HIS:CD2	5:B:517:THR:H	2.00	0.80
6:C:57:VAL:HG21	11:J:57:ILE:HD11	1.64	0.80
10:I:4:PHE:CD1	10:I:5:ARG:N	2.48	0.80
10:I:6:PHE:HB3	10:I:12:ASN:O	1.80	0.80
4:A:401:GLY:O	4:A:435:HIS:CG	2.35	0.79
4:A:664:THR:CG2	4:A:664:THR:CA	2.61	0.79
4:A:1072:ILE:C	4:A:1075:PRO:HD2	2.07	0.79
4:A:1076:ALA:C	4:A:1078:GLN:H	1.88	0.79
4:A:1423:GLY:O	4:A:1424:VAL:O	2.00	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:59:LEU:CD2	5:B:59:LEU:HG	2.10	0.79
6:C:164:ALA:O	6:C:166:GLU:N	2.16	0.79
7:E:187:TYR:HD2	7:E:188:LEU:CD2	1.94	0.79
9:H:34:ASP:CB	9:H:34:ASP:HA	2.09	0.79
9:H:101:ALA:HB2	9:H:116:TYR:HD2	1.48	0.79
12:K:57:LEU:CB	12:K:76:GLN:HG2	2.12	0.79
1:R:5:A:H2'	1:R:6:G:C8	2.18	0.79
4:A:92:HIS:HB2	4:A:236:LEU:CD1	2.13	0.79
4:A:261:ASP:HB3	4:A:323:LYS:HD2	1.63	0.79
4:A:278:THR:C	4:A:279:LEU:HD23	2.06	0.79
4:A:1044:TRP:O	4:A:1047:SER:N	2.15	0.79
5:B:552:MET:N	5:B:553:PRO:HD2	1.96	0.79
5:B:817:LEU:N	5:B:818:PRO:CD	2.44	0.79
7:E:36:GLU:O	7:E:38:PRO:HD3	1.83	0.79
7:E:204:THR:HG22	7:E:205:SER:N	1.96	0.79
4:A:741:ASN:ND2	4:A:743:VAL:N	2.30	0.79
4:A:1173:HIS:N	4:A:1173:HIS:HA	1.93	0.79
5:B:946:ASN:OD1	5:B:946:ASN:N	2.08	0.79
5:B:955:THR:CG2	13:L:54:ARG:O	2.29	0.79
5:B:1215:ARG:C	5:B:1216:LEU:HD23	2.07	0.79
6:C:5:GLY:O	6:C:7:GLN:HG2	1.82	0.79
6:C:141:GLY:O	6:C:142:VAL:HB	1.80	0.79
7:E:190:LEU:HD23	7:E:190:LEU:N	1.96	0.79
4:A:26:GLU:O	4:A:28:ARG:N	2.15	0.79
4:A:1076:ALA:HA	4:A:1079:MET:HE2	1.62	0.79
4:A:1191:TRP:CZ2	4:A:1257:ASP:OD1	2.36	0.79
5:B:300:HIS:CE1	5:B:376:PHE:CZ	2.67	0.79
4:A:262:LEU:N	4:A:262:LEU:HD23	1.94	0.79
4:A:1299:VAL:HG12	4:A:1300:LYS:HB2	1.65	0.79
4:A:1339:LEU:CD1	7:E:147:HIS:HD2	1.96	0.79
5:B:211:VAL:CG1	5:B:212:LEU:N	2.44	0.79
5:B:865:LYS:N	5:B:865:LYS:HA	1.93	0.79
5:B:1084:GLN:OE1	5:B:1084:GLN:N	2.16	0.79
7:E:157:SER:OG	7:E:160:GLU:HB2	1.83	0.79
4:A:254:GLU:O	5:B:918:ILE:HG13	1.82	0.79
4:A:1042:PHE:CZ	4:A:1046:LEU:HD12	2.16	0.79
5:B:276:ILE:HG22	5:B:277:LYS:H	1.47	0.79
5:B:736:THR:O	5:B:736:THR:HG22	1.80	0.79
5:B:1115:THR:HG21	5:B:1117:GLN:HG3	1.62	0.79
10:I:25:LEU:HD12	10:I:26:LEU:N	1.96	0.79
4:A:942:PHE:CD2	4:A:942:PHE:O	2.36	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1138:ILE:O	4:A:1276:VAL:N	2.16	0.79
5:B:737:THR:HG23	10:I:66:PRO:HB2	1.65	0.79
5:B:1156:ASP:HB3	5:B:1198:TYR:H	1.46	0.79
6:C:119:VAL:O	6:C:119:VAL:HG12	1.80	0.79
7:E:215:MET:CE	7:E:215:MET:SD	2.71	0.79
11:J:57:ILE:CG2	11:J:57:ILE:CA	2.60	0.79
4:A:59:GLY:HA2	4:A:67:CYS:SG	2.23	0.79
4:A:1189:SER:CB	4:A:1190:PRO:CD	2.61	0.79
5:B:356:LEU:N	5:B:356:LEU:CD2	2.25	0.79
6:C:229:TYR:HD1	6:C:229:TYR:H	1.28	0.79
7:E:55:ARG:O	7:E:58:MET:HB2	1.82	0.79
7:E:78:LEU:HB2	7:E:107:THR:CG2	2.13	0.79
12:K:21:ILE:HG22	12:K:21:ILE:O	1.80	0.79
4:A:87:ALA:CB	4:A:88:LYS:N	2.44	0.79
4:A:247:ARG:HH11	4:A:263:THR:HG23	1.46	0.79
4:A:741:ASN:HD22	4:A:743:VAL:H	1.29	0.79
4:A:834:THR:CG2	4:A:1077:THR:HG23	2.13	0.79
4:A:1308:THR:CG2	4:A:1310:GLY:N	2.44	0.79
5:B:25:ILE:HD11	5:B:653:VAL:HB	1.65	0.79
5:B:329:THR:HG22	5:B:332:ASP:OD2	1.82	0.79
5:B:430:ARG:O	5:B:431:TYR:O	2.01	0.79
5:B:477:ALA:CB	5:B:479:VAL:CA	2.60	0.79
5:B:1072:MET:SD	5:B:1072:MET:CB	2.71	0.79
6:C:18:VAL:CG2	6:C:240:VAL:CG1	2.61	0.79
7:E:186:LEU:CD2	7:E:186:LEU:HG	2.11	0.79
4:A:76:GLU:OE1	5:B:1159:ARG:NH1	2.14	0.79
4:A:1025:ARG:HG2	4:A:1025:ARG:NH1	1.98	0.79
4:A:1042:PHE:HE2	4:A:1046:LEU:HD12	1.41	0.79
5:B:120:ARG:HD2	5:B:955:THR:HG21	1.63	0.79
5:B:1170:THR:CG2	5:B:1183:LYS:NZ	2.46	0.79
4:A:179:LEU:HD13	4:A:297:GLN:CG	2.12	0.78
4:A:314:ALA:C	4:A:315:LEU:O	2.22	0.78
4:A:605:MET:SD	4:A:605:MET:CB	2.72	0.78
4:A:1161:THR:CA	4:A:1161:THR:CG2	2.62	0.78
6:C:5:GLY:O	6:C:6:PRO:C	2.24	0.78
6:C:242:GLN:O	6:C:246:ARG:CG	2.31	0.78
7:E:113:GLN:HA	7:E:137:GLU:CG	2.10	0.78
9:H:134:ASN:O	9:H:135:LEU:C	2.25	0.78
10:I:41:PRO:HD2	10:I:42:LEU:H	1.46	0.78
4:A:18:GLN:CB	5:B:1215:ARG:HB2	2.14	0.78
4:A:257:ARG:C	4:A:257:ARG:HB2	2.07	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:320:ARG:NH2	5:B:471:LYS:HA	1.98	0.78
4:A:407:ARG:HD3	4:A:413:ILE:HD13	1.63	0.78
4:A:635:ARG:CZ	4:A:877:HIS:ND1	2.46	0.78
4:A:709:THR:HG22	4:A:711:ARG:N	1.98	0.78
5:B:856:PHE:CD1	5:B:856:PHE:N	2.50	0.78
11:J:57:ILE:HA	11:J:60:PHE:CD2	2.18	0.78
4:A:14:VAL:HG23	4:A:1432:GLN:NE2	1.98	0.78
4:A:61:ILE:O	4:A:63:ARG:N	2.15	0.78
4:A:237:THR:CB	4:A:238:CYS:N	2.46	0.78
5:B:1210:MET:HE2	5:B:1210:MET:HB2	1.64	0.78
6:C:44:LEU:CD1	6:C:160:LYS:O	2.32	0.78
9:H:51:ALA:O	9:H:52:GLN:C	2.26	0.78
4:A:267:ALA:O	4:A:271:LYS:N	2.16	0.78
4:A:1338:VAL:HG12	4:A:1339:LEU:N	1.98	0.78
4:A:1390:ASN:HD22	4:A:1399:ARG:HB3	1.48	0.78
5:B:256:VAL:HG11	5:B:382:ILE:HD11	1.65	0.78
5:B:1106:ARG:NH2	5:B:1109:GLY:O	2.16	0.78
12:K:10:PHE:CD1	12:K:11:LEU:HD13	2.17	0.78
4:A:316:GLN:C	4:A:316:GLN:N	2.41	0.78
4:A:453:MET:HE3	4:A:520:CYS:SG	2.24	0.78
4:A:1239:ARG:C	4:A:1240:CYS:SG	2.67	0.78
4:A:1299:VAL:HG12	4:A:1300:LYS:N	1.94	0.78
5:B:46:GLN:HG3	5:B:47:GLN:H	1.47	0.78
5:B:423:LYS:C	5:B:425:THR:N	2.36	0.78
5:B:667:GLN:CB	5:B:667:GLN:HA	2.10	0.78
5:B:724:ASP:C	5:B:724:ASP:OD1	2.25	0.78
6:C:45:ALA:HA	6:C:72:LEU:HD12	1.65	0.78
6:C:253:LYS:O	6:C:256:ALA:CB	2.30	0.78
10:I:62:ILE:HG22	10:I:63:GLY:N	1.97	0.78
11:J:22:LEU:CD1	11:J:22:LEU:N	2.46	0.78
13:L:61:THR:CG2	13:L:61:THR:HB	2.12	0.78
4:A:168:GLY:C	4:A:169:ASN:O	2.25	0.78
4:A:664:THR:CG2	4:A:664:THR:C	2.57	0.78
4:A:900:ASP:CA	4:A:926:GLN:HE22	1.91	0.78
5:B:179:CYS:O	5:B:180:TYR:C	2.24	0.78
5:B:200:GLY:HA2	5:B:202:TYR:CE2	2.17	0.78
5:B:278:GLN:HG2	5:B:279:ASP:H	1.46	0.78
7:E:118:PRO:O	7:E:122:LYS:CD	2.31	0.78
7:E:135:PHE:HB3	7:E:140:LEU:CD1	2.13	0.78
4:A:133:LYS:O	4:A:137:ALA:HB2	1.84	0.78
4:A:181:LEU:O	4:A:202:LEU:HD12	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:312:PRO:O	4:A:313:GLN:CG	2.31	0.78
4:A:741:ASN:HD22	4:A:743:VAL:N	1.80	0.78
4:A:996:ASN:O	4:A:998:LEU:CB	2.28	0.78
5:B:585:VAL:HG12	5:B:587:HIS:CD2	2.18	0.78
5:B:710:LEU:C	5:B:711:GLU:CG	2.54	0.78
5:B:800:GLN:HG3	11:J:52:THR:CG2	2.13	0.78
6:C:121:VAL:HG13	6:C:121:VAL:O	1.84	0.78
4:A:34:LYS:H	4:A:35:ILE:HG12	1.46	0.78
4:A:680:THR:HG22	4:A:681:GLU:N	1.98	0.78
4:A:993:LEU:O	4:A:995:GLU:N	2.17	0.78
4:A:1225:PHE:C	4:A:1226:VAL:CG2	2.57	0.78
7:E:113:GLN:HB3	7:E:137:GLU:OE1	1.83	0.78
12:K:83:PRO:O	12:K:86:ALA:HB3	1.84	0.78
4:A:98:LYS:O	4:A:100:LYS:N	2.17	0.78
4:A:582:ILE:HG23	4:A:583:PRO:HD2	1.65	0.78
4:A:777:PHE:HE2	4:A:782:ARG:HA	1.47	0.78
4:A:929:LEU:CD2	4:A:929:LEU:N	2.47	0.78
4:A:1361:SER:C	4:A:1361:SER:HA	2.06	0.78
4:A:1402:PHE:CD2	4:A:1403:GLU:N	2.52	0.78
5:B:69:LEU:CA	5:B:70:ILE:N	2.47	0.78
5:B:195:CYS:CB	5:B:782:LEU:HD22	2.14	0.78
5:B:1077:THR:HG21	5:B:1079:LYS:HB2	1.66	0.78
6:C:58:LEU:N	6:C:58:LEU:CD2	2.47	0.78
7:E:60:PHE:CE2	7:E:80:VAL:CG2	2.62	0.78
7:E:83:CYS:C	7:E:83:CYS:HA	2.02	0.78
8:F:111:LEU:C	8:F:113:GLY:N	2.40	0.78
12:K:61:TYR:HD1	12:K:62:LYS:N	1.82	0.78
12:K:92:ASN:O	12:K:96:ASN:ND2	2.16	0.78
13:L:58:LYS:O	13:L:58:LYS:CG	2.30	0.78
4:A:179:LEU:CD1	4:A:297:GLN:CG	2.61	0.78
4:A:380:VAL:HG21	4:A:430:TRP:N	1.94	0.78
4:A:382:PRO:HD3	4:A:428:TYR:CE2	2.18	0.78
4:A:491:VAL:HG13	4:A:492:PRO:HD2	1.65	0.78
4:A:505:CYS:SG	5:B:1141:HIS:HD2	2.07	0.78
4:A:1259:MET:O	4:A:1261:LYS:N	2.17	0.78
5:B:899:ILE:HG22	5:B:900:ALA:N	1.98	0.78
5:B:1106:ARG:HH21	5:B:1109:GLY:CA	1.97	0.78
7:E:59:SER:O	7:E:79:TRP:CH2	2.36	0.78
4:A:381:THR:O	4:A:384:ASN:N	2.16	0.77
4:A:901:LEU:HB2	4:A:926:GLN:HG3	1.65	0.77
4:A:971:PHE:HB2	4:A:973:ILE:HD13	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1074:GLU:HB3	4:A:1075:PRO:HD3	1.66	0.77
4:A:1225:PHE:C	4:A:1226:VAL:HG23	2.09	0.77
4:A:1237:ILE:HG22	4:A:1238:ILE:C	2.08	0.77
4:A:1355:VAL:CA	4:A:1355:VAL:HB	2.09	0.77
7:E:13:TRP:O	7:E:16:PHE:HB3	1.84	0.77
4:A:573:SER:O	4:A:576:GLN:HB2	1.85	0.77
4:A:764:CYS:C	4:A:764:CYS:CB	2.57	0.77
4:A:794:PRO:HG2	4:A:795:GLU:HG2	1.67	0.77
4:A:904:THR:O	4:A:905:ASP:C	2.27	0.77
4:A:1068:ALA:O	4:A:1069:ALA:C	2.26	0.77
5:B:26:THR:O	5:B:29:ASP:HB2	1.84	0.77
10:I:50:THR:HG22	10:I:52:ILE:H	1.47	0.77
12:K:24:ASP:CG	12:K:74:ARG:HH11	1.91	0.77
12:K:83:PRO:HA	12:K:86:ALA:CB	2.14	0.77
4:A:526:ASP:OD1	5:B:829:CYS:SG	2.42	0.77
4:A:705:LYS:O	4:A:706:HIS:O	2.01	0.77
4:A:820:GLY:HA2	4:A:823:GLY:N	1.97	0.77
4:A:901:LEU:HB2	4:A:926:GLN:CG	2.15	0.77
4:A:1208:THR:HA	4:A:1231:ASP:OD1	1.84	0.77
4:A:1433:MET:HE1	8:F:92:ARG:NH1	2.00	0.77
5:B:273:LEU:CD2	5:B:360:PHE:CD1	2.67	0.77
5:B:297:ILE:O	5:B:298:LEU:C	2.26	0.77
5:B:756:ILE:O	5:B:756:ILE:HG22	1.82	0.77
5:B:866:TYR:CA	5:B:867:GLY:N	2.46	0.77
6:C:69:LEU:HB3	11:J:5:VAL:HG11	1.64	0.77
7:E:64:PRO:CG	7:E:76:GLY:HA2	2.14	0.77
4:A:465:TYR:CD2	5:B:976:ILE:HD12	2.19	0.77
4:A:894:GLU:HG3	4:A:898:ARG:HB2	1.64	0.77
5:B:367:LEU:CD2	5:B:367:LEU:CD1	2.62	0.77
5:B:1106:ARG:HG3	5:B:1107:ALA:N	1.99	0.77
5:B:1196:ILE:HB	5:B:1197:PRO:CD	2.13	0.77
12:K:84:LYS:O	12:K:87:LEU:HB3	1.84	0.77
4:A:443:LEU:HD21	4:A:456:MET:H	1.49	0.77
4:A:925:LEU:C	4:A:927:VAL:H	1.91	0.77
4:A:1355:VAL:O	4:A:1358:SER:OG	2.01	0.77
5:B:957:ASN:ND2	5:B:958:GLN:CB	2.47	0.77
6:C:17:ASN:C	6:C:18:VAL:HG23	2.10	0.77
6:C:47:ASP:O	6:C:48:SER:HB2	1.84	0.77
4:A:265:LYS:NZ	4:A:322:VAL:CG2	2.47	0.77
4:A:316:GLN:N	4:A:317:LYS:N	2.33	0.77
4:A:1073:GLY:O	4:A:1076:ALA:HB3	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:800:GLN:CG	11:J:52:THR:CG2	2.62	0.77
5:B:806:THR:HG22	5:B:808:ALA:H	1.50	0.77
5:B:1106:ARG:NH2	5:B:1109:GLY:CA	2.48	0.77
5:B:1221:SER:C	5:B:1221:SER:HA	2.04	0.77
6:C:253:LYS:O	6:C:256:ALA:HB3	1.85	0.77
13:L:32:ALA:HB3	13:L:55:ILE:HD12	1.66	0.77
4:A:273:ASN:OD1	4:A:296:LEU:HD21	1.85	0.77
4:A:540:PHE:HD2	4:A:572:TRP:O	1.68	0.77
4:A:960:ILE:O	4:A:961:ARG:C	2.20	0.77
4:A:1256:GLU:O	4:A:1259:MET:N	2.18	0.77
5:B:273:LEU:HD21	5:B:360:PHE:CD1	2.20	0.77
5:B:770:GLN:O	5:B:770:GLN:CG	2.32	0.77
5:B:848:ARG:HD2	11:J:7:CYS:O	1.85	0.77
6:C:265:MET:CE	6:C:265:MET:SD	2.73	0.77
7:E:111:VAL:CG1	7:E:111:VAL:HB	2.10	0.77
10:I:14:LEU:HA	10:I:15:TYR:HD1	1.47	0.77
11:J:36:LEU:HD12	11:J:47:ARG:HG2	1.67	0.77
4:A:381:THR:HG23	4:A:382:PRO:HG2	1.67	0.77
4:A:942:PHE:CD2	4:A:942:PHE:C	2.60	0.77
5:B:1166:CYS:O	5:B:1168:LEU:HB2	1.84	0.77
11:J:32:GLU:CD	11:J:32:GLU:H	1.92	0.77
4:A:353:ILE:O	4:A:353:ILE:HG13	1.85	0.77
4:A:828:ALA:HB1	5:B:530:GLY:HA2	1.67	0.77
4:A:944:ARG:CG	4:A:1298:TYR:OH	2.28	0.77
5:B:557:PHE:CD2	5:B:557:PHE:O	2.38	0.77
5:B:617:ARG:NE	5:B:619:ILE:HD13	1.99	0.77
5:B:705:MET:H	5:B:710:LEU:HD12	1.46	0.77
8:F:122:MET:CE	8:F:122:MET:HB3	2.14	0.77
4:A:378:GLU:OE1	4:A:434:ARG:NH1	2.18	0.77
4:A:695:LYS:O	4:A:696:GLU:C	2.25	0.77
5:B:557:PHE:C	5:B:557:PHE:HD2	1.91	0.77
5:B:860:MET:HG3	5:B:861:ASP:N	2.00	0.77
5:B:1197:PRO:O	5:B:1200:ALA:HB3	1.85	0.77
4:A:1291:VAL:HG13	4:A:1292:PRO:HD2	1.65	0.76
5:B:295:GLY:HA2	5:B:298:LEU:HG	1.66	0.76
5:B:650:GLU:HG3	5:B:651:LEU:N	1.98	0.76
6:C:129:ILE:O	6:C:129:ILE:CG2	2.30	0.76
7:E:15:ALA:O	7:E:19:VAL:HG23	1.84	0.76
7:E:54:GLN:O	7:E:57:MET:HB3	1.85	0.76
11:J:22:LEU:N	11:J:22:LEU:HD12	1.95	0.76
11:J:51:LEU:O	11:J:51:LEU:HD12	1.84	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:34:LYS:NZ	4:A:57:ARG:NH2	2.33	0.76
4:A:709:THR:CG2	4:A:711:ARG:H	1.99	0.76
4:A:922:ASP:OD1	4:A:923:LEU:N	2.18	0.76
4:A:1015:VAL:HG12	4:A:1019:CYS:SG	2.24	0.76
4:A:1057:VAL:CG1	4:A:1057:VAL:HB	2.13	0.76
4:A:1117:THR:N	4:A:1328:TYR:O	2.18	0.76
4:A:1322:ILE:H	4:A:1322:ILE:HD13	1.50	0.76
4:A:1441:PHE:CZ	8:F:89:GLU:CA	2.67	0.76
5:B:362:PRO:C	5:B:363:HIS:O	2.22	0.76
5:B:1060:ARG:HG3	5:B:1061:GLU:N	2.00	0.76
9:H:51:ALA:O	9:H:52:GLN:O	2.04	0.76
9:H:57:VAL:CG1	9:H:57:VAL:HB	2.11	0.76
4:A:106:VAL:CG1	4:A:107:CYS:N	2.48	0.76
4:A:849:MET:HE3	4:A:1061:GLY:C	2.10	0.76
5:B:195:CYS:HB2	5:B:782:LEU:HD22	1.67	0.76
5:B:554:ILE:O	5:B:555:ILE:C	2.28	0.76
9:H:109:LYS:CA	9:H:110:ASP:N	2.47	0.76
4:A:491:VAL:HG12	4:A:492:PRO:HD2	1.68	0.76
4:A:546:VAL:CG1	4:A:546:VAL:CG2	2.62	0.76
4:A:820:GLY:O	4:A:821:ARG:N	2.18	0.76
4:A:944:ARG:HG2	4:A:1298:TYR:CZ	2.20	0.76
4:A:1150:SER:OG	4:A:1264:GLU:OE1	2.01	0.76
5:B:69:LEU:HA	5:B:70:ILE:N	2.00	0.76
5:B:287:ARG:HA	5:B:291:ILE:O	1.84	0.76
5:B:883:LEU:CD2	5:B:883:LEU:CD1	2.63	0.76
5:B:957:ASN:HD22	5:B:958:GLN:N	1.80	0.76
5:B:1203:LEU:HD12	5:B:1203:LEU:O	1.85	0.76
7:E:116:ILE:HG21	7:E:121:MET:CG	2.15	0.76
10:I:4:PHE:CE1	10:I:13:MET:HE2	2.19	0.76
4:A:112:LYS:O	4:A:114:LEU:CD2	2.34	0.76
4:A:832:ALA:O	4:A:833:GLU:C	2.28	0.76
4:A:898:ARG:O	4:A:899:VAL:HG23	1.85	0.76
4:A:1445:ILE:N	4:A:1445:ILE:CG1	2.48	0.76
5:B:167:ILE:CG2	5:B:424:LEU:HD13	2.09	0.76
5:B:225:VAL:HG13	5:B:238:ALA:HB2	1.67	0.76
5:B:744:HIS:CD2	5:B:745:PRO:HD3	2.20	0.76
5:B:1106:ARG:CG	5:B:1107:ALA:N	2.49	0.76
8:F:111:LEU:CD1	8:F:111:LEU:N	2.49	0.76
10:I:32:CYS:SG	10:I:34:TYR:N	2.55	0.76
3:N:12:DT:OP1	7:E:117:THR:CB	2.34	0.76
4:A:49:LYS:O	4:A:50:ILE:HG12	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:151:ASP:OD1	4:A:162:VAL:O	2.04	0.76
4:A:315:LEU:CA	4:A:315:LEU:HB2	2.13	0.76
4:A:546:VAL:O	4:A:550:LEU:HD22	1.85	0.76
4:A:1033:GLN:O	4:A:1033:GLN:CG	2.34	0.76
4:A:1294:PRO:HB2	4:A:1295:THR:HG22	1.67	0.76
4:A:1329:THR:HG22	4:A:1331:SER:N	1.98	0.76
5:B:211:VAL:HG12	5:B:212:LEU:H	1.46	0.76
5:B:223:VAL:O	5:B:223:VAL:HG12	1.85	0.76
6:C:134:ILE:HD12	6:C:141:GLY:CA	2.15	0.76
7:E:162:ARG:HH22	7:E:166:LYS:HZ2	1.30	0.76
5:B:369:GLY:O	5:B:370:PHE:HD1	1.68	0.76
5:B:528:PRO:HG2	5:B:528:PRO:O	1.85	0.76
5:B:562:GLY:HA3	5:B:590:HIS:HE1	1.48	0.76
5:B:660:LYS:C	5:B:663:ALA:HB2	2.09	0.76
5:B:1002:THR:HG21	5:B:1006:ILE:HB	1.66	0.76
7:E:127:ILE:HD11	7:E:132:ILE:HD12	1.67	0.76
7:E:187:TYR:HD2	7:E:187:TYR:O	1.67	0.76
2:T:20:DC:H2"	2:T:21:DC:H5'	0.79	0.76
4:A:414:ASP:O	4:A:414:ASP:OD1	2.02	0.76
4:A:909:ASP:CG	4:A:910:PRO:CD	2.57	0.76
6:C:58:LEU:HD11	11:J:2:ILE:HD12	1.68	0.76
9:H:132:LEU:CD1	9:H:132:LEU:CD2	2.64	0.76
4:A:18:GLN:HB3	5:B:1215:ARG:HB2	1.67	0.76
4:A:78:PRO:O	4:A:79:GLY:C	2.21	0.76
4:A:298:PHE:C	4:A:298:PHE:CD2	2.64	0.76
4:A:375:THR:HA	4:A:434:ARG:O	1.85	0.76
4:A:491:VAL:O	4:A:493:GLN:NE2	2.19	0.76
4:A:665:GLY:HA2	5:B:1086:PHE:CD1	2.21	0.76
4:A:836:TYR:O	4:A:839:ARG:N	2.16	0.76
4:A:868:TYR:CE2	4:A:1366:ARG:HD3	2.20	0.76
4:A:1323:ASP:OD1	4:A:1325:THR:HG22	1.85	0.76
5:B:185:THR:CG2	5:B:188:ASP:OD2	2.33	0.76
7:E:151:PRO:O	7:E:153:HIS:ND1	2.18	0.76
4:A:688:LYS:O	4:A:689:LYS:C	2.28	0.76
4:A:1146:VAL:CG2	4:A:1146:VAL:HB	2.13	0.76
5:B:317:CYS:O	5:B:319:GLU:N	2.18	0.76
5:B:666:TYR:O	5:B:668:ASP:N	2.18	0.76
8:F:132:LEU:O	8:F:148:VAL:CG2	2.33	0.76
9:H:5:LEU:HD23	9:H:133:ASN:O	1.84	0.76
10:I:101:PHE:N	10:I:101:PHE:CD1	2.50	0.76
12:K:40:HIS:O	12:K:41:THR:C	2.29	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:98:LYS:O	4:A:99:ILE:C	2.26	0.75
4:A:167:CYS:O	4:A:167:CYS:SG	2.43	0.75
4:A:929:LEU:HD23	4:A:929:LEU:N	2.00	0.75
4:A:1368:MET:O	4:A:1369:ALA:C	2.27	0.75
5:B:352:ALA:C	5:B:354:ASP:H	1.94	0.75
7:E:9:ILE:HD11	7:E:53:PRO:HD3	1.66	0.75
7:E:159:ASP:CB	7:E:159:ASP:N	2.49	0.75
12:K:9:LEU:HD23	12:K:9:LEU:H	1.46	0.75
2:T:20:DC:H4'	4:A:447:GLN:CD	2.11	0.75
4:A:396:PRO:C	4:A:397:ASN:OD1	2.30	0.75
4:A:582:ILE:CG2	4:A:583:PRO:N	2.49	0.75
4:A:1232:ASN:C	4:A:1233:ASP:O	2.19	0.75
5:B:69:LEU:N	5:B:69:LEU:CD2	2.41	0.75
5:B:250:PHE:C	5:B:250:PHE:CB	2.58	0.75
7:E:23:VAL:HG13	7:E:28:TYR:HD1	1.51	0.75
4:A:268:ASP:HB3	4:A:299:HIS:CD2	2.21	0.75
4:A:590:ARG:HD3	4:A:592:ASP:OD1	1.86	0.75
4:A:808:LEU:HD21	4:A:816:HIS:HD2	1.50	0.75
4:A:852:TYR:CE1	8:F:136:ARG:HG2	2.21	0.75
4:A:1291:VAL:CG1	4:A:1292:PRO:HD2	2.16	0.75
5:B:59:LEU:HD11	5:B:417:PHE:CE2	2.21	0.75
7:E:78:LEU:HD23	7:E:78:LEU:C	2.11	0.75
7:E:102:GLU:C	7:E:104:ASN:H	1.94	0.75
7:E:164:LEU:CD1	7:E:211:TYR:CE2	2.69	0.75
8:F:125:LEU:HB2	8:F:130:ILE:CD1	2.15	0.75
4:A:312:PRO:O	4:A:313:GLN:HG2	1.86	0.75
4:A:524:VAL:CG1	4:A:524:VAL:HB	2.12	0.75
4:A:596:THR:O	4:A:598:LEU:N	2.20	0.75
4:A:996:ASN:ND2	4:A:996:ASN:H	1.82	0.75
4:A:1097:GLY:O	4:A:1098:VAL:C	2.26	0.75
5:B:397:ASP:O	5:B:399:ASP:N	2.19	0.75
6:C:22:LEU:HD21	6:C:25:VAL:HG21	1.68	0.75
4:A:35:ILE:HG22	4:A:35:ILE:O	1.86	0.75
4:A:828:ALA:CB	5:B:530:GLY:HA2	2.15	0.75
4:A:1336:MET:CE	4:A:1381:LEU:HG	2.17	0.75
5:B:610:ASN:OD1	5:B:611:PRO:CD	2.34	0.75
5:B:970:THR:CG2	5:B:971:THR:N	2.49	0.75
6:C:22:LEU:HD23	6:C:22:LEU:C	2.12	0.75
6:C:260:LEU:O	6:C:264:GLN:HG3	1.87	0.75
7:E:35:VAL:CB	7:E:35:VAL:N	2.49	0.75
2:T:21:DC:OP1	5:B:1129:ARG:CB	2.27	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:598:LEU:O	4:A:600:PRO:N	2.20	0.75
4:A:714:PHE:O	4:A:718:VAL:HG23	1.86	0.75
4:A:1209:MET:CB	4:A:1231:ASP:OD2	2.34	0.75
5:B:1084:GLN:NE2	6:C:191:TYR:HA	2.02	0.75
5:B:1102:LYS:HB2	5:B:1103:ILE:HD13	1.69	0.75
11:J:42:LYS:CD	11:J:42:LYS:CB	2.64	0.75
4:A:219:PHE:CZ	4:A:230:ARG:HG2	2.21	0.75
4:A:367:PRO:O	4:A:370:ILE:HB	1.86	0.75
4:A:645:LEU:O	4:A:645:LEU:HD12	1.86	0.75
4:A:658:LEU:CD1	4:A:658:LEU:CD2	2.63	0.75
4:A:1242:VAL:CG1	4:A:1243:VAL:H	2.00	0.75
5:B:293:PRO:O	5:B:294:ASP:C	2.27	0.75
5:B:333:PHE:CD1	5:B:333:PHE:O	2.40	0.75
5:B:412:LEU:HB3	5:B:466:TRP:NE1	2.02	0.75
7:E:113:GLN:O	7:E:114:ASN:ND2	2.20	0.75
10:I:55:THR:HG23	10:I:58:VAL:CG2	2.17	0.75
12:K:51:LEU:CD1	12:K:59:ALA:HB3	2.17	0.75
13:L:61:THR:HG22	13:L:62:LYS:H	1.50	0.75
4:A:78:PRO:C	4:A:79:GLY:O	2.23	0.75
4:A:208:LEU:HD23	4:A:232:GLU:HB2	1.67	0.75
6:C:121:VAL:CG1	6:C:121:VAL:HB	2.09	0.75
8:F:131:PRO:HD2	8:F:132:LEU:HG	1.68	0.75
9:H:103:LYS:H	9:H:115:TYR:HB2	1.51	0.75
4:A:261:ASP:CB	4:A:323:LYS:CD	2.64	0.75
4:A:320:ARG:N	4:A:320:ARG:CD	2.40	0.75
4:A:571:LEU:CD2	4:A:571:LEU:CD1	2.64	0.75
4:A:1280:GLU:O	4:A:1281:ARG:C	2.26	0.75
5:B:34:ILE:HD13	5:B:34:ILE:N	2.02	0.75
5:B:792:MET:H	5:B:857:ARG:HA	1.51	0.75
7:E:28:TYR:HE1	7:E:78:LEU:HD13	1.51	0.75
7:E:64:PRO:HG3	7:E:76:GLY:HA2	1.69	0.75
9:H:114:VAL:CG1	9:H:114:VAL:HB	2.11	0.75
10:I:59:VAL:O	10:I:60:GLN:C	2.30	0.75
11:J:57:ILE:CG2	11:J:57:ILE:HB	2.10	0.75
12:K:5:ASP:O	12:K:6:ARG:C	2.14	0.75
4:A:785:PRO:HB2	5:B:701:ILE:HD11	1.68	0.74
4:A:1132:LYS:O	4:A:1135:ARG:HB2	1.87	0.74
4:A:1284:MET:CG	4:A:1306:LEU:CD2	2.65	0.74
5:B:361:LEU:N	5:B:362:PRO:HD2	2.02	0.74
6:C:41:ILE:CD1	6:C:172:PRO:HG3	2.15	0.74
12:K:34:THR:CG2	12:K:34:THR:HB	2.12	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:59:GLY:CA	4:A:67:CYS:SG	2.75	0.74
4:A:298:PHE:CD2	4:A:299:HIS:N	2.55	0.74
4:A:322:VAL:N	4:A:322:VAL:HG22	2.02	0.74
4:A:494:SER:O	4:A:498:ARG:HG2	1.86	0.74
4:A:499:ALA:O	4:A:503:GLN:HB2	1.87	0.74
4:A:668:ASP:CG	4:A:742:ASN:HD22	1.94	0.74
4:A:1042:PHE:C	4:A:1042:PHE:CD2	2.65	0.74
5:B:502:ILE:CB	5:B:502:ILE:C	2.60	0.74
6:C:31:ASN:C	6:C:33:LEU:N	2.41	0.74
10:I:96:SER:CB	10:I:98:VAL:HG23	2.16	0.74
12:K:12:LEU:H	12:K:12:LEU:HD13	1.53	0.74
4:A:24:PRO:CB	4:A:237:THR:CG2	2.63	0.74
4:A:1282:VAL:C	4:A:1283:VAL:HG22	2.11	0.74
5:B:1156:ASP:HB3	5:B:1198:TYR:N	2.02	0.74
9:H:47:PHE:CD1	9:H:47:PHE:C	2.65	0.74
10:I:116:ASN:CB	10:I:116:ASN:HA	2.13	0.74
4:A:464:PRO:CG	4:A:465:TYR:HD1	2.01	0.74
4:A:863:VAL:HG11	4:A:866:PHE:CD2	2.22	0.74
4:A:902:LEU:HD21	4:A:926:GLN:HB2	1.68	0.74
4:A:934:LYS:O	4:A:937:VAL:CA	2.36	0.74
4:A:1200:ALA:O	4:A:1202:MET:N	2.19	0.74
5:B:509:ALA:CB	5:B:509:ALA:N	2.50	0.74
5:B:560:GLU:O	5:B:561:TRP:HD1	1.68	0.74
5:B:610:ASN:OD1	5:B:611:PRO:HD2	1.86	0.74
5:B:701:ILE:HB	5:B:740:HIS:CE1	2.23	0.74
7:E:43:LYS:C	7:E:47:CYS:HB2	2.12	0.74
7:E:173:SER:HB2	7:E:177:ARG:HH21	1.52	0.74
8:F:83:PRO:HD2	8:F:84:TYR:H	1.51	0.74
9:H:31:THR:O	9:H:32:THR:CB	2.36	0.74
13:L:59:ALA:HB3	13:L:60:ARG:O	1.87	0.74
4:A:81:PHE:HZ	5:B:1209:ALA:HB2	1.52	0.74
4:A:144:THR:O	4:A:146:MET:HE2	1.88	0.74
4:A:381:THR:O	4:A:382:PRO:C	2.29	0.74
5:B:287:ARG:CG	5:B:292:ILE:HD13	2.16	0.74
5:B:374:LYS:O	5:B:375:ALA:C	2.29	0.74
9:H:59:ILE:O	9:H:60:ALA:CB	2.36	0.74
10:I:29:CYS:SG	10:I:31:THR:C	2.66	0.74
12:K:97:LYS:C	12:K:100:ALA:HB3	2.12	0.74
4:A:71:GLN:O	4:A:73:GLY:N	2.20	0.74
4:A:779:PHE:CE1	4:A:785:PRO:HD2	2.21	0.74
4:A:821:ARG:O	4:A:822:GLU:C	2.30	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:877:HIS:HB3	4:A:1056:SER:HB3	1.70	0.74
4:A:1115:SER:O	4:A:1329:THR:HG23	1.87	0.74
4:A:1298:TYR:C	4:A:1299:VAL:HG22	2.10	0.74
4:A:107:CYS:SG	4:A:148:CYS:HB2	2.27	0.74
4:A:460:VAL:CG1	4:A:461:LYS:N	2.49	0.74
5:B:827:ILE:O	5:B:828:ALA:CB	2.30	0.74
5:B:1190:ASP:O	5:B:1191:ILE:HG13	1.87	0.74
6:C:131:HIS:O	6:C:132:PRO:C	2.26	0.74
7:E:13:TRP:CE3	7:E:39:LEU:HD13	2.23	0.74
8:F:111:LEU:HD13	8:F:111:LEU:N	2.03	0.74
12:K:51:LEU:HD13	12:K:59:ALA:HB3	1.70	0.74
1:R:9:G:H4'	5:B:1097:HIS:NE2	2.02	0.74
4:A:13:THR:HB	4:A:15:LYS:NZ	2.02	0.74
4:A:507:VAL:N	4:A:508:PRO:HD3	2.02	0.74
4:A:1007:ILE:O	4:A:1010:ALA:HB3	1.86	0.74
4:A:1156:PRO:CD	4:A:1157:ASP:H	1.98	0.74
4:A:1227:ILE:HG22	4:A:1228:TRP:H	1.51	0.74
5:B:28:GLU:O	5:B:30:SER:N	2.21	0.74
5:B:464:GLY:HA2	5:B:478:GLY:HA2	1.69	0.74
5:B:473:MET:SD	5:B:473:MET:CE	2.76	0.74
5:B:593:PRO:CD	5:B:594:ALA:H	1.99	0.74
5:B:744:HIS:ND1	5:B:745:PRO:HD3	2.02	0.74
5:B:1043:ASP:C	5:B:1043:ASP:OD1	2.24	0.74
5:B:1106:ARG:NH1	5:B:1118:PRO:HB3	2.03	0.74
6:C:158:VAL:HG12	6:C:158:VAL:O	1.85	0.74
10:I:85:PHE:CD1	10:I:85:PHE:C	2.65	0.74
4:A:929:LEU:HD22	4:A:929:LEU:HA	1.69	0.74
6:C:202:PRO:O	6:C:202:PRO:CD	2.26	0.74
11:J:52:THR:O	11:J:54:VAL:HG23	1.87	0.74
13:L:34:CYS:SG	13:L:35:SER:N	2.61	0.74
13:L:61:THR:HG22	13:L:62:LYS:N	2.02	0.74
4:A:107:CYS:O	4:A:111:GLY:HA2	1.87	0.74
4:A:315:LEU:CG	4:A:315:LEU:HB2	2.12	0.74
4:A:809:THR:CG2	4:A:812:GLU:OE1	2.35	0.74
4:A:900:ASP:O	4:A:907:THR:HG23	1.87	0.74
6:C:133:ILE:O	6:C:134:ILE:HD13	1.87	0.74
5:B:474:SER:O	5:B:475:SER:C	2.30	0.73
4:A:396:PRO:HG2	4:A:397:ASN:OD1	1.86	0.73
4:A:738:LYS:NZ	6:C:194:GLU:HA	2.03	0.73
5:B:555:ILE:HD11	5:B:582:VAL:HG11	1.70	0.73
5:B:969:ARG:HG2	5:B:970:THR:N	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:1095:LEU:O	5:B:1096:ARG:O	2.06	0.73
5:B:1177:HIS:O	5:B:1179:GLN:CB	2.36	0.73
4:A:668:ASP:OD2	4:A:742:ASN:ND2	2.21	0.73
4:A:783:THR:O	5:B:516:ASN:OD1	2.06	0.73
4:A:1242:VAL:CG1	4:A:1242:VAL:HB	2.15	0.73
6:C:114:TYR:CD2	6:C:140:ASN:HB2	2.22	0.73
9:H:12:VAL:HG13	9:H:28:ALA:HB2	1.69	0.73
10:I:96:SER:C	10:I:98:VAL:N	2.38	0.73
12:K:91:CYS:O	12:K:94:ILE:HB	1.88	0.73
13:L:60:ARG:HG3	13:L:61:THR:N	2.03	0.73
3:N:2:DT:P	4:A:1110:ASN:CB	2.77	0.73
4:A:274:ILE:CG2	4:A:274:ILE:CG1	2.66	0.73
4:A:321:PRO:HG2	4:A:322:VAL:N	2.03	0.73
4:A:1067:LEU:O	4:A:1071:SER:OG	2.06	0.73
5:B:589:VAL:HG12	5:B:590:HIS:N	1.99	0.73
5:B:640:VAL:CG2	5:B:740:HIS:N	2.50	0.73
5:B:744:HIS:CD2	5:B:745:PRO:CD	2.71	0.73
5:B:868:MET:O	5:B:869:SER:OG	2.05	0.73
6:C:10:ILE:HD13	6:C:20:PHE:HB3	1.70	0.73
7:E:39:LEU:O	7:E:41:ASP:N	2.21	0.73
7:E:171:LYS:CB	7:E:174:GLN:HG3	2.18	0.73
7:E:202:SER:O	7:E:204:THR:N	2.22	0.73
10:I:54:GLU:C	10:I:55:THR:O	2.25	0.73
4:A:10:PRO:O	5:B:1193:GLN:HB3	1.89	0.73
4:A:123:ARG:O	4:A:124:GLN:C	2.31	0.73
4:A:618:GLU:OE1	4:A:619:LYS:N	2.21	0.73
4:A:711:ARG:HH12	10:I:95:THR:HB	1.53	0.73
4:A:786:HIS:N	4:A:786:HIS:CD2	2.55	0.73
5:B:1165:ILE:CG2	5:B:1166:CYS:N	2.51	0.73
7:E:179:GLN:HA	7:E:179:GLN:OE1	1.88	0.73
7:E:198:ILE:C	7:E:199:ILE:HG13	2.14	0.73
4:A:18:GLN:NE2	4:A:1418:LEU:CB	2.45	0.73
4:A:325:ILE:CG2	4:A:325:ILE:CA	2.67	0.73
4:A:765:VAL:HG21	4:A:800:VAL:HG11	1.69	0.73
4:A:930:ASP:O	4:A:931:GLU:C	2.30	0.73
4:A:1075:PRO:O	4:A:1078:GLN:HB2	1.89	0.73
6:C:80:LEU:HD12	6:C:81:GLU:H	1.52	0.73
9:H:32:THR:CG2	9:H:33:GLN:CG	2.48	0.73
4:A:8:SER:HG	5:B:1180:PHE:HE1	1.37	0.73
4:A:151:ASP:HB3	4:A:162:VAL:O	1.87	0.73
4:A:331:GLY:O	4:A:332:LYS:CB	2.36	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:855:THR:HG21	4:A:857:ARG:HE	1.54	0.73
4:A:1105:LEU:HB3	4:A:1384:VAL:HG21	1.69	0.73
4:A:1111:MET:CE	4:A:1111:MET:CG	2.65	0.73
4:A:1189:SER:CB	4:A:1190:PRO:HD3	2.19	0.73
5:B:709:ASP:O	5:B:710:LEU:HD23	1.89	0.73
5:B:731:VAL:HG12	5:B:732:SER:N	1.99	0.73
5:B:877:PRO:O	5:B:878:GLN:CG	2.36	0.73
5:B:880:THR:CB	5:B:880:THR:N	2.51	0.73
5:B:970:THR:HG22	5:B:971:THR:H	1.53	0.73
10:I:99:LEU:HB2	10:I:112:SER:HB3	1.71	0.73
4:A:128:ILE:CA	4:A:128:ILE:CG1	2.67	0.73
4:A:343:LYS:HE3	5:B:1151:LEU:O	1.88	0.73
4:A:982:THR:HG1	4:A:985:ASP:CG	1.96	0.73
4:A:1389:PHE:HE1	4:A:1390:ASN:OD1	1.70	0.73
5:B:104:GLU:O	5:B:105:SER:C	2.30	0.73
5:B:310:MET:O	5:B:313:MET:HB2	1.89	0.73
5:B:354:ASP:CB	5:B:354:ASP:OD1	2.34	0.73
5:B:893:LEU:HD21	5:B:913:GLY:N	2.04	0.73
7:E:195:VAL:CG2	7:E:213:ILE:HD13	2.19	0.73
8:F:116:ASP:O	8:F:117:PRO:C	2.26	0.73
12:K:37:LYS:O	12:K:38:GLU:HG2	1.88	0.73
4:A:315:LEU:CA	4:A:315:LEU:HB3	2.13	0.73
4:A:564:ALA:O	9:H:97:MET:HB3	1.89	0.73
4:A:1224:LEU:HD11	4:A:1240:CYS:CB	2.18	0.73
4:A:1366:ARG:HG2	4:A:1366:ARG:NH1	2.03	0.73
5:B:326:ASP:O	5:B:327:ARG:C	2.32	0.73
5:B:620:ARG:CG	5:B:620:ARG:NE	2.51	0.73
5:B:798:TYR:CD2	11:J:4:PRO:HG3	2.23	0.73
5:B:976:ILE:O	5:B:990:ILE:HG22	1.87	0.73
6:C:27:LEU:O	6:C:29:MET:N	2.20	0.73
7:E:20:LYS:HE2	7:E:60:PHE:CE1	2.24	0.73
7:E:168:TYR:O	7:E:169:ARG:CG	2.37	0.73
7:E:171:LYS:HB2	7:E:174:GLN:HG3	1.70	0.73
12:K:11:LEU:C	12:K:12:LEU:HD12	2.13	0.73
4:A:793:SER:CB	4:A:794:PRO:HD2	2.19	0.73
4:A:1041:ALA:O	4:A:1042:PHE:C	2.30	0.73
5:B:1067:ARG:O	5:B:1086:PHE:HE1	1.71	0.73
5:B:1131:GLY:O	5:B:1134:GLU:N	2.21	0.73
6:C:100:THR:HB	6:C:119:VAL:HG12	1.70	0.73
9:H:109:LYS:HB2	9:H:111:LEU:H	1.53	0.73
10:I:52:ILE:CB	10:I:52:ILE:C	2.60	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:K:53:ASP:O	12:K:56:VAL:CG2	2.37	0.73
2:T:28:DT:C1'	4:A:317:LYS:HG2	2.14	0.72
4:A:679:ILE:HG23	4:A:729:ALA:HB1	1.70	0.72
5:B:282:ILE:HD12	5:B:283:VAL:HG13	1.70	0.72
5:B:315:LYS:HG2	10:I:13:MET:HE1	1.71	0.72
5:B:638:PHE:CD1	5:B:743:ILE:HD13	2.24	0.72
12:K:7:PHE:HA	12:K:10:PHE:CZ	2.24	0.72
4:A:65:LEU:CB	4:A:65:LEU:N	2.53	0.72
4:A:120:GLU:O	4:A:120:GLU:CG	2.24	0.72
4:A:779:PHE:CZ	4:A:785:PRO:HD3	2.24	0.72
5:B:276:ILE:CG2	5:B:277:LYS:H	2.02	0.72
5:B:1024:ALA:O	5:B:1025:HIS:C	2.32	0.72
5:B:1084:GLN:HE21	6:C:201:TRP:HZ2	1.36	0.72
5:B:1106:ARG:HH21	5:B:1109:GLY:H	1.37	0.72
7:E:187:TYR:O	7:E:187:TYR:CG	2.42	0.72
8:F:107:VAL:HG11	8:F:111:LEU:HD11	1.71	0.72
10:I:31:THR:CG2	10:I:32:CYS:HB3	2.18	0.72
4:A:875:ALA:HA	4:A:878:ILE:HD12	1.71	0.72
5:B:169:ARG:HD2	5:B:454:THR:HG21	1.70	0.72
5:B:256:VAL:HG11	5:B:382:ILE:CD1	2.19	0.72
5:B:882:THR:HB	5:B:934:LYS:C	2.13	0.72
9:H:5:LEU:CD2	9:H:133:ASN:C	2.50	0.72
9:H:81:PRO:C	9:H:81:PRO:N	2.48	0.72
10:I:55:THR:HG23	10:I:58:VAL:HG21	1.71	0.72
4:A:137:ALA:O	4:A:138:ILE:O	2.06	0.72
4:A:218:ASP:O	4:A:222:LEU:CD1	2.37	0.72
4:A:715:GLU:O	4:A:716:ASP:C	2.30	0.72
4:A:878:ILE:C	4:A:879:GLU:CG	2.59	0.72
4:A:919:ILE:HG22	4:A:922:ASP:HB2	1.71	0.72
4:A:1410:PHE:CD2	5:B:1212:ILE:HD11	2.24	0.72
4:A:1434:ALA:HB1	4:A:1436:ILE:HD12	1.71	0.72
7:E:135:PHE:CB	7:E:140:LEU:HD11	2.19	0.72
7:E:190:LEU:CD2	7:E:190:LEU:N	2.51	0.72
11:J:34:THR:O	11:J:35:ALA:C	2.27	0.72
13:L:63:ARG:O	13:L:64:LEU:C	2.31	0.72
1:R:4:G:H1	2:T:25:DC:H42	1.37	0.72
5:B:42:GLY:O	5:B:43:LEU:HD23	1.87	0.72
5:B:479:VAL:O	5:B:480:SER:HB3	1.89	0.72
5:B:751:VAL:CG1	5:B:752:ALA:N	2.52	0.72
5:B:840:ILE:HG12	5:B:992:ILE:HG22	1.71	0.72
7:E:97:VAL:CG1	7:E:127:ILE:HG21	2.17	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:220:THR:CG2	4:A:220:THR:HB	2.13	0.72
4:A:531:ILE:O	4:A:531:ILE:HG13	1.89	0.72
5:B:273:LEU:HD21	5:B:360:PHE:HD1	1.54	0.72
5:B:882:THR:OG1	5:B:934:LYS:C	2.33	0.72
5:B:1106:ARG:HG3	5:B:1107:ALA:H	1.53	0.72
11:J:7:CYS:HB2	11:J:49:MET:HE3	1.72	0.72
12:K:65:HIS:CD2	12:K:66:PRO:HD2	2.25	0.72
2:T:16:DC:H2'	2:T:17:DG:H8	1.55	0.72
4:A:265:LYS:HE2	4:A:323:LYS:CG	2.19	0.72
4:A:672:ASP:CB	4:A:736:ASN:OD1	2.35	0.72
4:A:1019:CYS:HA	4:A:1022:LEU:HB3	1.71	0.72
5:B:422:LYS:CG	5:B:422:LYS:CA	2.67	0.72
5:B:885:MET:HA	5:B:936:ASP:HB2	1.71	0.72
5:B:1095:LEU:C	5:B:1096:ARG:O	2.21	0.72
7:E:151:PRO:O	7:E:153:HIS:CE1	2.42	0.72
12:K:65:HIS:CD2	12:K:67:PHE:H	2.08	0.72
13:L:61:THR:CG2	13:L:61:THR:CA	2.66	0.72
4:A:315:LEU:HA	4:A:319:GLY:O	1.90	0.72
4:A:909:ASP:OD2	4:A:910:PRO:HD3	1.89	0.72
4:A:1286:LYS:HG2	4:A:1286:LYS:O	1.88	0.72
5:B:219:ALA:CB	5:B:219:ALA:C	2.62	0.72
5:B:313:MET:HG3	5:B:390:LEU:HD21	1.70	0.72
5:B:593:PRO:CD	5:B:594:ALA:N	2.51	0.72
5:B:882:THR:O	5:B:882:THR:HG23	1.89	0.72
7:E:158:SER:CB	7:E:158:SER:C	2.62	0.72
9:H:44:VAL:O	9:H:44:VAL:HG12	1.87	0.72
4:A:599:SER:C	4:A:601:LYS:H	1.97	0.72
4:A:868:TYR:CZ	4:A:1366:ARG:HD3	2.24	0.72
4:A:901:LEU:O	4:A:902:LEU:O	2.08	0.72
5:B:869:SER:C	5:B:870:ILE:HG13	2.12	0.72
5:B:1120:GLU:O	5:B:1124:ARG:NH1	2.22	0.72
6:C:80:LEU:HD11	6:C:95:CYS:HA	1.70	0.72
7:E:46:TYR:O	7:E:54:GLN:N	2.23	0.72
7:E:187:TYR:CD2	7:E:188:LEU:CD2	2.71	0.72
4:A:518:LYS:CB	4:A:519:PRO:HD2	2.20	0.72
4:A:1230:GLU:N	4:A:1233:ASP:OD2	2.23	0.72
5:B:52:ASN:O	5:B:56:ASP:HB2	1.90	0.72
5:B:179:CYS:C	5:B:181:LEU:N	2.48	0.72
5:B:384:ARG:NH2	5:B:621:GLU:HG3	2.04	0.72
5:B:492:LEU:CB	5:B:751:VAL:HG21	2.18	0.72
7:E:164:LEU:HD22	7:E:211:TYR:CD2	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:H:47:PHE:HD2	9:H:95:TYR:CD1	2.08	0.72
9:H:63:LEU:CD2	9:H:63:LEU:HG	2.16	0.72
11:J:3:VAL:HA	11:J:53:HIS:CD2	2.23	0.72
13:L:46:VAL:O	13:L:47:ARG:HB2	1.89	0.72
4:A:14:VAL:HG23	4:A:1432:GLN:HE22	1.51	0.71
4:A:265:LYS:HZ1	4:A:322:VAL:HB	1.54	0.71
4:A:893:PHE:C	4:A:893:PHE:HD2	1.94	0.71
4:A:1007:ILE:O	4:A:1010:ALA:N	2.22	0.71
4:A:1026:LEU:CD2	4:A:1026:LEU:CA	2.67	0.71
4:A:1325:THR:C	7:E:147:HIS:HD1	1.97	0.71
4:A:1336:MET:HE3	4:A:1381:LEU:HG	1.72	0.71
5:B:877:PRO:O	5:B:878:GLN:HG2	1.90	0.71
4:A:401:GLY:CA	4:A:435:HIS:CD2	2.64	0.71
4:A:743:VAL:HG11	4:A:758:ILE:HD11	1.70	0.71
4:A:897:TYR:CD2	4:A:936:LEU:CD1	2.62	0.71
4:A:900:ASP:HA	4:A:926:GLN:HE22	1.48	0.71
4:A:1021:LEU:O	4:A:1024:SER:N	2.23	0.71
4:A:1215:ARG:O	4:A:1219:THR:OG1	2.06	0.71
5:B:428:ILE:C	5:B:430:ARG:N	2.41	0.71
5:B:1074:ASN:O	5:B:1074:ASN:CG	2.27	0.71
6:C:69:LEU:HD13	6:C:69:LEU:N	2.03	0.71
7:E:115:ASN:C	7:E:116:ILE:HG12	2.15	0.71
9:H:101:ALA:HB2	9:H:116:TYR:CE2	2.24	0.71
10:I:58:VAL:C	10:I:59:VAL:CG2	2.56	0.71
12:K:83:PRO:O	12:K:87:LEU:N	2.20	0.71
4:A:113:LEU:C	4:A:114:LEU:HD23	2.15	0.71
4:A:325:ILE:CG2	4:A:325:ILE:C	2.63	0.71
4:A:820:GLY:CA	4:A:823:GLY:H	1.99	0.71
4:A:1000:LEU:HD23	4:A:1001:ARG:H	1.53	0.71
4:A:1322:ILE:C	4:A:1324:PRO:HD3	2.15	0.71
5:B:910:VAL:CG1	5:B:910:VAL:CA	2.67	0.71
7:E:111:VAL:O	7:E:111:VAL:HG12	1.90	0.71
7:E:124:VAL:HG22	7:E:132:ILE:HG21	1.72	0.71
7:E:173:SER:O	7:E:175:LEU:N	2.24	0.71
4:A:68:GLN:NE2	4:A:70:CYS:HB2	2.03	0.71
4:A:868:TYR:CD1	4:A:1064:VAL:HG21	2.25	0.71
4:A:1219:THR:HG23	4:A:1271:ILE:HD11	1.72	0.71
5:B:1056:SER:HB3	5:B:1066:SER:O	1.91	0.71
6:C:245:VAL:HA	6:C:248:ILE:HD12	1.72	0.71
6:C:260:LEU:HA	6:C:263:THR:HB	1.71	0.71
7:E:100:ILE:HG22	7:E:101:GLN:N	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F:109:VAL:HG12	8:F:110:ASP:N	2.01	0.71
4:A:32:VAL:HG23	4:A:81:PHE:O	1.90	0.71
4:A:90:VAL:O	4:A:235:ILE:HG22	1.90	0.71
5:B:112:LEU:CD1	5:B:113:TYR:N	2.51	0.71
5:B:332:ASP:O	5:B:334:ILE:N	2.24	0.71
5:B:744:HIS:CG	5:B:745:PRO:CD	2.72	0.71
5:B:1204:PHE:O	5:B:1207:LEU:HB2	1.90	0.71
6:C:57:VAL:HB	6:C:58:LEU:HD23	1.71	0.71
4:A:115:LEU:HB2	4:A:122:MET:HE3	1.71	0.71
4:A:183:GLY:C	4:A:184:SER:O	2.31	0.71
4:A:364:VAL:HG12	4:A:458:HIS:HB2	1.71	0.71
4:A:1125:ALA:CB	4:A:1125:ALA:HA	2.12	0.71
4:A:1299:VAL:CG1	4:A:1299:VAL:HB	2.15	0.71
5:B:475:SER:C	5:B:477:ALA:H	1.96	0.71
5:B:686:ASN:H	5:B:686:ASN:HD22	1.36	0.71
5:B:815:ARG:HG3	5:B:815:ARG:NH1	2.05	0.71
12:K:23:PRO:CD	12:K:23:PRO:O	2.38	0.71
12:K:65:HIS:CD2	12:K:66:PRO:N	2.58	0.71
13:L:58:LYS:O	13:L:59:ALA:CB	2.38	0.71
4:A:315:LEU:CG	4:A:315:LEU:HB3	2.12	0.71
4:A:399:HIS:CG	4:A:400:PRO:N	2.49	0.71
4:A:744:LYS:HE2	4:A:748:MET:CE	2.19	0.71
4:A:834:THR:HG21	4:A:1077:THR:CG2	2.21	0.71
4:A:1156:PRO:HD2	4:A:1157:ASP:H	1.56	0.71
5:B:1193:GLN:CG	5:B:1193:GLN:NE2	2.53	0.71
5:B:1210:MET:HB3	5:B:1210:MET:HE3	1.71	0.71
4:A:664:THR:C	4:A:664:THR:HG22	2.16	0.71
4:A:958:VAL:O	4:A:958:VAL:HG12	1.78	0.71
5:B:113:TYR:O	5:B:114:PRO:O	2.07	0.71
5:B:449:ASN:O	5:B:451:LYS:HB3	1.90	0.71
5:B:737:THR:HG23	10:I:66:PRO:CB	2.21	0.71
5:B:882:THR:CG2	5:B:882:THR:O	2.38	0.71
5:B:976:ILE:HG22	5:B:977:GLY:N	1.94	0.71
4:A:616:VAL:HG12	4:A:617:VAL:N	2.03	0.71
4:A:628:GLY:C	4:A:630:ILE:H	1.95	0.71
4:A:834:THR:CB	4:A:1077:THR:HG23	2.21	0.71
4:A:901:LEU:O	4:A:903:ASN:N	2.23	0.71
4:A:907:THR:HG22	4:A:908:LEU:H	1.55	0.71
4:A:1256:GLU:O	4:A:1258:HIS:N	2.24	0.71
5:B:185:THR:HG23	5:B:188:ASP:CG	2.15	0.71
8:F:120:ILE:O	8:F:121:ALA:C	2.31	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:I:95:THR:CG2	10:I:96:SER:N	2.54	0.71
4:A:67:CYS:HB3	4:A:70:CYS:HB3	1.73	0.71
4:A:115:LEU:HD12	4:A:122:MET:CE	2.20	0.71
4:A:230:ARG:HB2	4:A:233:TRP:CE3	2.26	0.71
4:A:321:PRO:C	4:A:321:PRO:CG	2.64	0.71
4:A:1285:MET:O	4:A:1305:VAL:N	2.23	0.71
4:A:1325:THR:O	7:E:147:HIS:CE1	2.43	0.71
4:A:1355:VAL:CB	4:A:1355:VAL:C	2.62	0.71
5:B:979:LYS:C	5:B:980:PHE:CD1	2.68	0.71
5:B:1008:PRO:HG3	5:B:1011:ILE:HD11	1.73	0.71
5:B:1110:PRO:O	5:B:1111:MET:HG2	1.90	0.71
6:C:183:TRP:CD1	6:C:183:TRP:H	2.04	0.71
11:J:2:ILE:CA	11:J:53:HIS:NE2	2.54	0.71
12:K:63:VAL:CG2	12:K:63:VAL:O	2.38	0.71
4:A:385:ILE:O	4:A:386:ASP:C	2.31	0.70
4:A:528:LEU:CB	4:A:531:ILE:HG22	2.16	0.70
4:A:939:ASP:O	4:A:940:ARG:C	2.31	0.70
4:A:1009:ASN:ND2	4:A:1012:ARG:HH12	1.89	0.70
4:A:1387:HIS:ND1	4:A:1387:HIS:N	2.36	0.70
5:B:428:ILE:HD11	5:B:448:ILE:N	2.05	0.70
5:B:477:ALA:HB3	5:B:479:VAL:CB	2.21	0.70
5:B:646:LEU:CB	5:B:646:LEU:HA	2.14	0.70
5:B:977:GLY:CA	5:B:1099:VAL:HG21	2.21	0.70
8:F:81:THR:CG2	8:F:136:ARG:HD3	2.21	0.70
9:H:109:LYS:HB2	9:H:111:LEU:N	2.06	0.70
10:I:28:GLU:OE2	10:I:28:GLU:C	2.33	0.70
1:R:5:A:C2	1:R:6:G:C6	2.79	0.70
4:A:808:LEU:O	5:B:728:ARG:NH1	2.24	0.70
4:A:1325:THR:CG2	4:A:1326:ARG:HG3	2.20	0.70
5:B:367:LEU:CD2	5:B:367:LEU:HG	2.15	0.70
5:B:449:ASN:OD1	5:B:451:LYS:HB3	1.91	0.70
7:E:170:LEU:HD13	7:E:175:LEU:CD2	2.21	0.70
8:F:94:LEU:CD1	8:F:94:LEU:HG	2.13	0.70
4:A:298:PHE:HD2	4:A:299:HIS:N	1.88	0.70
4:A:858:ASN:ND2	4:A:860:LEU:H	1.88	0.70
4:A:901:LEU:HG	4:A:926:GLN:CG	2.21	0.70
4:A:982:THR:OG1	4:A:985:ASP:OD2	2.08	0.70
4:A:1052:GLN:O	4:A:1053:PHE:O	2.07	0.70
4:A:1319:VAL:O	4:A:1322:ILE:HD11	1.91	0.70
4:A:1388:GLY:O	4:A:1390:ASN:N	2.24	0.70
5:B:235:SER:O	5:B:236:HIS:CE1	2.44	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:329:THR:HA	5:B:332:ASP:HB2	1.70	0.70
9:H:109:LYS:HB3	9:H:110:ASP:OD2	1.91	0.70
9:H:135:LEU:HD22	9:H:136:LYS:CD	2.20	0.70
11:J:57:ILE:HG23	11:J:58:GLU:N	2.05	0.70
4:A:628:GLY:C	4:A:630:ILE:N	2.41	0.70
4:A:736:ASN:N	4:A:736:ASN:ND2	2.32	0.70
4:A:852:TYR:CE2	4:A:1060:PRO:HB2	2.27	0.70
4:A:953:ASN:C	4:A:954:TRP:CD1	2.70	0.70
4:A:982:THR:O	4:A:983:ILE:C	2.32	0.70
4:A:1116:LEU:C	4:A:1117:THR:OG1	2.30	0.70
5:B:322:PHE:CD1	5:B:322:PHE:O	2.44	0.70
5:B:843:GLN:HA	5:B:846:ILE:HD12	1.73	0.70
8:F:86:THR:OG1	8:F:89:GLU:HG3	1.92	0.70
4:A:444:PHE:CE2	4:A:470:LEU:CD2	2.55	0.70
4:A:777:PHE:HD2	4:A:782:ARG:C	2.00	0.70
5:B:115:GLN:O	5:B:119:LEU:HD12	1.91	0.70
5:B:1051:THR:CG2	5:B:1053:GLU:N	2.43	0.70
5:B:1177:HIS:O	5:B:1179:GLN:HB2	1.92	0.70
6:C:37:MET:SD	6:C:232:VAL:HG21	2.32	0.70
7:E:190:LEU:CD2	7:E:190:LEU:HA	2.21	0.70
10:I:28:GLU:HG3	10:I:28:GLU:O	1.91	0.70
11:J:59:LYS:CE	11:J:59:LYS:CG	2.68	0.70
4:A:304:MET:CG	5:B:1210:MET:HG3	2.22	0.70
4:A:327:ALA:CB	4:A:327:ALA:HA	2.13	0.70
4:A:341:MET:CB	4:A:341:MET:HE2	2.20	0.70
4:A:618:GLU:CD	4:A:620:LYS:H	2.00	0.70
5:B:169:ARG:HB2	5:B:454:THR:HG23	1.72	0.70
5:B:329:THR:CA	5:B:332:ASP:HB2	2.21	0.70
5:B:695:ALA:CB	5:B:695:ALA:C	2.64	0.70
5:B:1115:THR:HG21	5:B:1117:GLN:CG	2.20	0.70
6:C:80:LEU:HD11	6:C:95:CYS:CA	2.21	0.70
8:F:81:THR:O	8:F:82:THR:C	2.34	0.70
8:F:143:PHE:O	8:F:143:PHE:CG	2.43	0.70
4:A:18:GLN:HE21	4:A:1418:LEU:HB2	1.51	0.70
4:A:518:LYS:HB2	4:A:519:PRO:HD2	1.73	0.70
4:A:567:LYS:CB	9:H:96:VAL:H	2.04	0.70
4:A:886:ILE:CD1	4:A:943:LEU:HB2	2.21	0.70
4:A:1161:THR:HG22	4:A:1162:VAL:N	2.05	0.70
4:A:1293:SER:OG	4:A:1295:THR:HG23	1.92	0.70
5:B:872:GLU:HG3	5:B:916:THR:OG1	1.91	0.70
5:B:994:TYR:HB2	5:B:999:MET:HE1	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:93:ASP:O	6:C:127:ARG:NH2	2.24	0.70
6:C:148:ARG:H	6:C:151:GLN:HG3	1.57	0.70
10:I:7:CYS:N	10:I:14:LEU:HD21	2.05	0.70
4:A:249:SER:CA	4:A:249:SER:O	2.38	0.70
4:A:599:SER:C	4:A:601:LYS:N	2.50	0.70
5:B:863:GLU:OE2	5:B:873:THR:HA	1.92	0.70
4:A:396:PRO:C	4:A:397:ASN:CG	2.59	0.70
4:A:941:LYS:O	4:A:944:ARG:N	2.24	0.70
4:A:1025:ARG:HA	4:A:1030:ARG:NH1	2.07	0.70
4:A:1192:LEU:HD11	4:A:1239:ARG:HB3	1.74	0.70
6:C:3:GLU:HG3	6:C:4:GLU:H	0.89	0.70
7:E:195:VAL:HG22	7:E:213:ILE:CD1	2.21	0.70
9:H:51:ALA:CB	9:H:51:ALA:N	2.54	0.70
10:I:81:ARG:O	10:I:82:GLU:HG2	1.92	0.70
12:K:29:ASN:HB3	12:K:77:THR:O	1.92	0.70
4:A:338:GLY:HA2	5:B:1129:ARG:HH22	1.57	0.70
4:A:955:PRO:O	4:A:956:LEU:HG	1.91	0.70
4:A:1042:PHE:HE2	4:A:1046:LEU:CD1	1.99	0.70
4:A:1174:PHE:C	4:A:1174:PHE:CB	2.65	0.70
5:B:354:ASP:O	5:B:357:GLN:N	2.25	0.70
5:B:361:LEU:N	5:B:361:LEU:HD12	2.06	0.70
5:B:745:PRO:HD2	5:B:746:SER:H	1.54	0.70
5:B:1031:LEU:HD13	5:B:1055:ILE:HD12	1.74	0.70
6:C:60:ASP:HB3	13:L:67:PHE:CE1	2.27	0.70
7:E:83:CYS:CA	7:E:84:ASP:N	2.55	0.70
8:F:98:ALA:O	8:F:117:PRO:HB2	1.90	0.70
9:H:95:TYR:HE2	9:H:97:MET:SD	2.15	0.70
10:I:83:ASN:O	10:I:84:VAL:CB	2.26	0.70
4:A:135:PHE:HD1	4:A:222:LEU:CB	2.05	0.69
4:A:388:LEU:HD21	4:A:432:VAL:HG11	1.74	0.69
4:A:1292:PRO:HD3	4:A:1298:TYR:CE2	2.26	0.69
4:A:1308:THR:HG22	4:A:1309:ASP:C	2.16	0.69
5:B:205:ILE:HG22	5:B:206:ASN:ND2	2.06	0.69
5:B:665:GLU:O	5:B:666:TYR:C	2.34	0.69
5:B:815:ARG:N	5:B:816:GLU:OE1	2.25	0.69
5:B:973:ILE:HG23	5:B:974:PRO:CD	2.19	0.69
5:B:1191:ILE:C	5:B:1192:TYR:CD1	2.71	0.69
6:C:18:VAL:HG21	6:C:240:VAL:HG12	1.73	0.69
6:C:266:ASP:C	6:C:266:ASP:CB	2.64	0.69
10:I:4:PHE:N	10:I:4:PHE:CD2	2.60	0.69
2:T:18:DA:H2'	2:T:19:DT:C5	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:22:DT:C2'	2:T:23:DC:O5'	2.39	0.69
4:A:532:ARG:HB2	4:A:617:VAL:O	1.92	0.69
4:A:607:ILE:CG2	4:A:607:ILE:HB	2.16	0.69
4:A:918:GLU:O	4:A:919:ILE:HD13	1.92	0.69
4:A:1349:TYR:O	4:A:1352:VAL:N	2.26	0.69
4:A:1364:ASN:ND2	4:A:1364:ASN:C	2.50	0.69
5:B:260:GLY:O	5:B:267:ARG:HD3	1.92	0.69
5:B:354:ASP:O	5:B:358:LYS:N	2.22	0.69
5:B:1008:PRO:HG2	5:B:1008:PRO:O	1.92	0.69
6:C:36:VAL:HG23	12:K:41:THR:HG21	1.74	0.69
9:H:108:SER:O	9:H:109:LYS:CG	2.40	0.69
9:H:132:LEU:CB	9:H:132:LEU:N	2.54	0.69
9:H:143:LEU:C	9:H:144:ILE:CG1	2.56	0.69
10:I:99:LEU:HB2	10:I:112:SER:CB	2.23	0.69
4:A:24:PRO:CG	4:A:237:THR:HG21	2.22	0.69
4:A:606:LEU:HB3	4:A:614:PHE:H	1.56	0.69
4:A:648:ASN:O	4:A:652:VAL:HG23	1.90	0.69
4:A:954:TRP:CD1	4:A:954:TRP:N	2.57	0.69
4:A:981:LEU:CD2	4:A:1039:LYS:HA	2.20	0.69
5:B:63:ILE:HG13	5:B:421:PHE:CZ	2.27	0.69
5:B:570:VAL:CG2	5:B:570:VAL:HB	2.17	0.69
5:B:802:PRO:HB3	5:B:1091:TYR:CE1	2.27	0.69
5:B:976:ILE:HD11	5:B:992:ILE:HD12	1.74	0.69
9:H:24:CYS:HB2	9:H:44:VAL:HG21	1.72	0.69
12:K:46:ILE:HG23	12:K:50:LEU:HD12	1.73	0.69
4:A:22:PHE:CB	5:B:1211:ASN:OD1	2.41	0.69
4:A:514:PRO:CG	4:A:515:GLN:N	2.51	0.69
4:A:571:LEU:HD22	9:H:46:LEU:HD11	1.73	0.69
4:A:737:LEU:HD23	4:A:737:LEU:H	1.57	0.69
4:A:1237:ILE:CG2	4:A:1238:ILE:C	2.66	0.69
5:B:1170:THR:CG2	5:B:1183:LYS:HZ3	2.03	0.69
10:I:59:VAL:O	10:I:61:ASP:N	2.24	0.69
11:J:21:TYR:HB2	11:J:39:LEU:HD11	1.73	0.69
11:J:57:ILE:HA	11:J:60:PHE:HD2	1.56	0.69
4:A:8:SER:OG	5:B:1180:PHE:HE1	1.75	0.69
4:A:30:ILE:HG13	5:B:1183:LYS:NZ	2.06	0.69
4:A:87:ALA:HB3	4:A:88:LYS:H	1.56	0.69
4:A:779:PHE:CZ	4:A:785:PRO:CD	2.75	0.69
4:A:886:ILE:CD1	4:A:944:ARG:HG3	2.23	0.69
4:A:1081:LEU:CD2	4:A:1081:LEU:HG	2.14	0.69
4:A:1364:ASN:ND2	4:A:1366:ARG:CG	2.55	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:63:ILE:HG13	5:B:421:PHE:CE2	2.28	0.69
5:B:899:ILE:CG2	5:B:900:ALA:H	1.98	0.69
5:B:1066:SER:C	5:B:1067:ARG:HD3	2.16	0.69
4:A:282:ASN:O	4:A:284:ALA:N	2.25	0.69
4:A:849:MET:HE3	4:A:1061:GLY:HA2	1.66	0.69
4:A:857:ARG:HB3	4:A:863:VAL:HA	1.74	0.69
5:B:1002:THR:CG2	5:B:1006:ILE:HB	2.22	0.69
9:H:16:ASP:N	9:H:25:ARG:O	2.22	0.69
10:I:31:THR:HG22	10:I:32:CYS:HB3	1.73	0.69
10:I:41:PRO:CD	10:I:42:LEU:H	2.05	0.69
11:J:10:CYS:SG	11:J:43:ARG:HD2	2.32	0.69
4:A:95:PHE:O	4:A:96:ILE:C	2.32	0.69
4:A:268:ASP:O	4:A:271:LYS:HB3	1.93	0.69
4:A:476:SER:O	4:A:478:TYR:N	2.25	0.69
4:A:551:TYR:CE2	12:K:74:ARG:HB2	2.27	0.69
4:A:582:ILE:HG22	4:A:583:PRO:N	1.99	0.69
4:A:873:MET:HG2	4:A:957:PRO:HG3	1.75	0.69
4:A:913:LEU:HD12	4:A:915:SER:H	1.56	0.69
5:B:978:ASP:OD1	5:B:1098:MET:HB3	1.92	0.69
5:B:992:ILE:CD1	12:K:67:PHE:HE2	2.06	0.69
6:C:35:ARG:HD3	12:K:41:THR:HA	1.73	0.69
9:H:52:GLN:CB	9:H:52:GLN:N	2.56	0.69
11:J:60:PHE:HD2	11:J:60:PHE:H	1.41	0.69
4:A:265:LYS:HZ2	4:A:322:VAL:CG2	2.05	0.69
4:A:269:ILE:C	4:A:271:LYS:N	2.47	0.69
4:A:863:VAL:C	4:A:864:ILE:HG12	2.14	0.69
4:A:901:LEU:HG	4:A:926:GLN:HE21	1.58	0.69
4:A:1408:ILE:O	4:A:1408:ILE:HG22	1.91	0.69
4:A:1412:ALA:HA	4:A:1417:GLU:HG3	1.75	0.69
5:B:69:LEU:HA	5:B:70:ILE:H	1.57	0.69
5:B:488:TYR:O	5:B:490:SER:N	2.25	0.69
5:B:806:THR:CB	5:B:809:MET:HE3	2.20	0.69
5:B:881:ASN:C	5:B:881:ASN:N	2.51	0.69
5:B:947:GLY:C	5:B:948:ILE:HG13	2.18	0.69
5:B:1210:MET:CE	5:B:1210:MET:HB2	2.16	0.69
6:C:70:ILE:O	6:C:70:ILE:HG22	1.93	0.69
6:C:100:THR:HB	6:C:119:VAL:HG11	1.73	0.69
7:E:164:LEU:HD13	7:E:211:TYR:CD2	2.27	0.69
9:H:41:ASP:O	9:H:42:ILE:CD1	2.38	0.69
11:J:44:TYR:HA	11:J:47:ARG:HB2	1.73	0.69
12:K:46:ILE:HG23	12:K:50:LEU:CD1	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:L:26:THR:CB	13:L:26:THR:HA	2.15	0.69
4:A:528:LEU:HD13	4:A:531:ILE:CG2	2.23	0.69
4:A:667:GLY:O	4:A:669:THR:N	2.26	0.69
4:A:1134:ILE:HG22	4:A:1138:ILE:HD11	1.74	0.69
5:B:877:PRO:C	5:B:878:GLN:CG	2.66	0.69
5:B:883:LEU:CB	5:B:883:LEU:N	2.55	0.69
6:C:255:VAL:O	6:C:258:ILE:HB	1.93	0.69
7:E:87:SER:C	7:E:88:VAL:CG2	2.66	0.69
8:F:120:ILE:HG22	8:F:121:ALA:H	1.55	0.69
12:K:91:CYS:O	12:K:95:ILE:HG13	1.92	0.69
4:A:321:PRO:O	4:A:322:VAL:HG21	1.92	0.69
4:A:362:ASP:N	4:A:362:ASP:OD2	2.20	0.69
4:A:599:SER:HB3	4:A:603:ASN:H	1.58	0.69
4:A:987:VAL:CG2	4:A:987:VAL:HB	2.18	0.69
4:A:1161:THR:CB	4:A:1161:THR:C	2.61	0.69
5:B:263:GLY:O	5:B:264:SER:O	2.10	0.69
5:B:660:LYS:C	5:B:663:ALA:CB	2.66	0.69
5:B:953:LEU:C	5:B:953:LEU:CD2	2.65	0.69
6:C:196:ASP:O	6:C:200:GLU:CB	2.40	0.69
4:A:88:LYS:CA	4:A:89:PRO:N	2.54	0.68
4:A:463:ILE:CB	4:A:464:PRO:HD2	2.20	0.68
4:A:814:PHE:CZ	5:B:514:LEU:HD21	2.27	0.68
4:A:1066:VAL:O	4:A:1066:VAL:HG12	1.93	0.68
4:A:1319:VAL:HB	4:A:1322:ILE:CD1	2.23	0.68
4:A:1342:GLU:HG2	7:E:212:ARG:NH1	2.05	0.68
4:A:1444:MET:HE1	8:F:135:ARG:NH2	2.08	0.68
5:B:20:ASP:N	5:B:655:LYS:HZ3	1.90	0.68
5:B:256:VAL:HG13	5:B:271:ALA:HB2	1.75	0.68
5:B:893:LEU:HD23	5:B:897:GLY:C	2.18	0.68
6:C:198:ALA:C	6:C:200:GLU:N	2.48	0.68
7:E:115:ASN:O	7:E:116:ILE:CG1	2.40	0.68
8:F:124:GLU:O	8:F:130:ILE:HG13	1.93	0.68
8:F:143:PHE:O	8:F:143:PHE:CD1	2.45	0.68
11:J:7:CYS:CA	11:J:49:MET:HE3	2.22	0.68
4:A:49:LYS:HZ1	4:A:61:ILE:N	1.92	0.68
4:A:606:LEU:HB2	4:A:614:PHE:CE1	2.27	0.68
4:A:609:ASP:O	4:A:611:GLN:HB2	1.94	0.68
4:A:1048:ASN:O	4:A:1049:ILE:C	2.34	0.68
5:B:634:TYR:CE1	5:B:692:TYR:HD1	2.11	0.68
6:C:80:LEU:CD1	6:C:95:CYS:HA	2.24	0.68
7:E:204:THR:CG2	7:E:205:SER:N	2.54	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:I:28:GLU:O	10:I:28:GLU:CG	2.42	0.68
10:I:77:LYS:CB	10:I:77:LYS:C	2.65	0.68
11:J:43:ARG:O	11:J:47:ARG:N	2.25	0.68
12:K:65:HIS:HD2	12:K:67:PHE:H	1.40	0.68
4:A:245:PRO:HB3	5:B:1201:LYS:NZ	2.08	0.68
4:A:598:LEU:CD1	4:A:598:LEU:HG	2.15	0.68
4:A:832:ALA:O	4:A:833:GLU:O	2.11	0.68
4:A:929:LEU:CA	4:A:929:LEU:HD22	2.20	0.68
4:A:982:THR:O	4:A:985:ASP:N	2.25	0.68
4:A:1101:LEU:HD13	4:A:1355:VAL:HG11	1.76	0.68
5:B:310:MET:CE	5:B:310:MET:CG	2.71	0.68
5:B:1223:ASP:C	5:B:1223:ASP:HA	2.08	0.68
6:C:121:VAL:CG1	6:C:121:VAL:O	2.40	0.68
9:H:138:GLU:O	9:H:139:ASN:C	2.35	0.68
4:A:26:GLU:HA	4:A:29:ALA:CB	2.19	0.68
4:A:312:PRO:O	4:A:313:GLN:HG3	1.94	0.68
4:A:377:PRO:O	4:A:377:PRO:HG2	1.94	0.68
4:A:877:HIS:CB	4:A:877:HIS:N	2.54	0.68
4:A:1365:TYR:O	4:A:1366:ARG:C	2.34	0.68
5:B:408:LEU:O	5:B:412:LEU:HD12	1.94	0.68
5:B:515:HIS:O	5:B:516:ASN:C	2.34	0.68
5:B:835:GLN:O	5:B:836:GLU:C	2.35	0.68
5:B:898:LEU:O	5:B:899:ILE:C	2.33	0.68
5:B:900:ALA:O	5:B:903:VAL:HG23	1.94	0.68
6:C:116:LYS:O	6:C:116:LYS:HG2	1.92	0.68
3:N:2:DT:C2	3:N:3:DG:C6	2.80	0.68
4:A:37:PHE:N	4:A:52:GLY:HA2	2.00	0.68
4:A:115:LEU:HD12	4:A:122:MET:HE2	1.75	0.68
4:A:800:VAL:HG12	4:A:801:GLU:N	2.08	0.68
4:A:1327:ILE:O	4:A:1327:ILE:HG23	1.92	0.68
5:B:236:HIS:C	5:B:237:VAL:HG23	2.18	0.68
5:B:388:CYS:O	5:B:388:CYS:SG	2.51	0.68
5:B:1212:ILE:HG22	5:B:1213:THR:N	2.08	0.68
5:B:1221:SER:HA	5:B:1222:ARG:N	2.07	0.68
9:H:51:ALA:CB	9:H:51:ALA:C	2.65	0.68
10:I:40:SER:CB	10:I:41:PRO:HD3	2.16	0.68
12:K:43:GLY:CA	12:K:71:PHE:CZ	2.76	0.68
4:A:34:LYS:HZ3	4:A:57:ARG:NH2	1.92	0.68
4:A:81:PHE:CZ	5:B:1209:ALA:HB2	2.28	0.68
4:A:93:VAL:C	4:A:95:PHE:H	2.01	0.68
4:A:445:ASN:HB2	4:A:455:MET:HG2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:590:ARG:HH11	4:A:590:ARG:HG3	0.54	0.68
4:A:614:PHE:CD1	4:A:614:PHE:O	2.46	0.68
4:A:844:ALA:HB2	4:A:1389:PHE:CD2	2.29	0.68
5:B:640:VAL:CG2	5:B:740:HIS:CA	2.72	0.68
5:B:798:TYR:HD2	11:J:4:PRO:HG3	1.57	0.68
5:B:882:THR:O	5:B:884:ARG:N	2.26	0.68
6:C:68:GLY:C	6:C:69:LEU:CD1	2.67	0.68
4:A:60:SER:OG	4:A:64:ASN:O	2.12	0.68
4:A:265:LYS:HZ3	4:A:322:VAL:HG21	1.58	0.68
4:A:445:ASN:HB2	4:A:454:SER:O	1.94	0.68
4:A:567:LYS:HE2	9:H:97:MET:HG2	1.74	0.68
5:B:597:MET:O	5:B:600:LEU:N	2.26	0.68
5:B:770:GLN:OE1	5:B:983:ARG:HA	1.93	0.68
12:K:107:THR:O	12:K:111:LEU:HD23	1.93	0.68
4:A:89:PRO:O	4:A:204:THR:HG23	1.92	0.68
4:A:96:ILE:CG2	4:A:97:ALA:N	2.57	0.68
4:A:135:PHE:O	4:A:135:PHE:CE2	2.46	0.68
4:A:588:LEU:CD1	4:A:589:GLN:H	2.05	0.68
4:A:714:PHE:CD2	10:I:97:MET:HE1	2.29	0.68
4:A:987:VAL:HG12	4:A:988:LEU:N	2.08	0.68
4:A:1161:THR:HG22	4:A:1163:ILE:HG13	1.73	0.68
5:B:33:VAL:O	5:B:36:ALA:HB3	1.94	0.68
5:B:286:PHE:HB3	5:B:297:ILE:HD11	1.76	0.68
5:B:701:ILE:HB	5:B:740:HIS:HE1	1.58	0.68
5:B:949:VAL:HG12	5:B:950:ASP:N	2.07	0.68
9:H:38:LEU:HD13	9:H:125:LEU:HD13	1.75	0.68
9:H:143:LEU:C	9:H:144:ILE:HG13	2.00	0.68
10:I:42:LEU:O	10:I:43:VAL:HG22	1.94	0.68
12:K:6:ARG:O	12:K:7:PHE:C	2.32	0.68
13:L:30:ILE:HG22	13:L:31:CYS:O	1.94	0.68
4:A:265:LYS:C	4:A:267:ALA:N	2.48	0.68
4:A:336:ILE:HG22	4:A:337:ARG:N	2.09	0.68
4:A:401:GLY:N	4:A:435:HIS:HD2	1.92	0.68
4:A:679:ILE:CG2	4:A:729:ALA:HB1	2.23	0.68
4:A:1342:GLU:CG	7:E:212:ARG:HH12	2.05	0.68
5:B:169:ARG:HB2	5:B:454:THR:CG2	2.24	0.68
5:B:363:HIS:O	5:B:364:ILE:CB	2.36	0.68
5:B:498:THR:HB	5:B:537:LYS:O	1.93	0.68
5:B:601:ARG:O	5:B:602:THR:C	2.36	0.68
5:B:737:THR:CG2	10:I:66:PRO:HB2	2.23	0.68
6:C:69:LEU:N	6:C:69:LEU:CD1	2.53	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:H:84:ALA:CB	9:H:84:ALA:N	2.56	0.68
12:K:34:THR:CG2	12:K:34:THR:C	2.67	0.68
4:A:252:PHE:H	4:A:253:ASN:HB3	1.59	0.68
4:A:850:VAL:HG21	4:A:1058:VAL:HG11	1.76	0.68
4:A:921:GLY:O	4:A:922:ASP:C	2.37	0.68
4:A:955:PRO:C	4:A:956:LEU:HG	2.19	0.68
5:B:90:ILE:HG22	5:B:91:SER:N	2.07	0.68
5:B:643:ASP:O	5:B:644:GLU:HG2	1.92	0.68
7:E:161:LYS:HD2	7:E:195:VAL:HG23	1.76	0.68
3:N:2:DT:P	4:A:1110:ASN:HB2	2.34	0.67
4:A:630:ILE:N	4:A:630:ILE:HD12	2.09	0.67
4:A:664:THR:HG22	4:A:665:GLY:N	2.09	0.67
5:B:461:LEU:N	5:B:461:LEU:HD12	1.83	0.67
5:B:477:ALA:CB	5:B:478:GLY:C	2.66	0.67
5:B:686:ASN:ND2	5:B:686:ASN:H	1.93	0.67
5:B:957:ASN:O	5:B:958:GLN:C	2.36	0.67
5:B:1077:THR:CG2	5:B:1079:LYS:HB2	2.24	0.67
12:K:109:TRP:CG	12:K:109:TRP:O	2.47	0.67
4:A:139:TRP:C	4:A:141:LEU:N	2.49	0.67
4:A:607:ILE:HG12	4:A:612:ILE:HA	1.76	0.67
4:A:849:MET:HE3	4:A:1061:GLY:CA	2.18	0.67
4:A:900:ASP:O	4:A:906:HIS:O	2.11	0.67
4:A:904:THR:O	4:A:906:HIS:N	2.27	0.67
5:B:114:PRO:HD3	5:B:124:TYR:CD1	2.28	0.67
5:B:189:LEU:O	5:B:190:TYR:C	2.35	0.67
6:C:66:ARG:NH2	11:J:3:VAL:O	2.27	0.67
7:E:204:THR:HG22	7:E:205:SER:CB	2.24	0.67
9:H:89:LEU:O	9:H:90:ALA:C	2.31	0.67
9:H:100:THR:CB	9:H:100:THR:HA	2.23	0.67
11:J:3:VAL:CG2	11:J:3:VAL:CA	2.65	0.67
3:N:2:DT:H2"	3:N:3:DG:N7	2.08	0.67
4:A:40:THR:CG2	4:A:259:GLU:OE2	2.41	0.67
4:A:50:ILE:O	4:A:52:GLY:N	2.28	0.67
4:A:250:ILE:CB	4:A:250:ILE:N	2.55	0.67
4:A:360:GLU:O	4:A:361:LEU:C	2.33	0.67
4:A:740:LEU:H	4:A:740:LEU:CD2	2.07	0.67
4:A:777:PHE:CD2	4:A:782:ARG:C	2.72	0.67
4:A:1362:TYR:CE1	4:A:1364:ASN:HA	2.29	0.67
5:B:882:THR:O	5:B:883:LEU:C	2.37	0.67
5:B:993:THR:O	5:B:994:TYR:HD2	1.77	0.67
9:H:109:LYS:C	9:H:109:LYS:N	2.50	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:30:ILE:HD11	5:B:1170:THR:OG1	1.94	0.67
4:A:68:GLN:CD	4:A:70:CYS:HB2	2.19	0.67
4:A:70:CYS:C	4:A:71:GLN:HG3	2.18	0.67
4:A:351:THR:CG2	4:A:352:VAL:H	2.07	0.67
4:A:598:LEU:CD1	4:A:598:LEU:CB	2.71	0.67
4:A:1200:ALA:C	4:A:1202:MET:N	2.51	0.67
4:A:1214:GLU:O	4:A:1218:GLN:CG	2.34	0.67
4:A:1335:ILE:HG22	4:A:1336:MET:N	2.02	0.67
5:B:355:ILE:HG22	5:B:356:LEU:CD2	2.24	0.67
5:B:639:ILE:HG23	5:B:640:VAL:N	2.08	0.67
5:B:1081:LEU:O	6:C:189:THR:HG23	1.95	0.67
5:B:1196:ILE:CB	5:B:1197:PRO:HD2	2.21	0.67
9:H:97:MET:HB2	9:H:118:PHE:CD2	2.29	0.67
10:I:19:ASP:HB2	10:I:24:ARG:HG3	1.76	0.67
10:I:60:GLN:NE2	10:I:107:SER:HB2	2.09	0.67
10:I:86:PHE:CD1	10:I:86:PHE:O	2.47	0.67
4:A:351:THR:HG22	4:A:352:VAL:H	1.58	0.67
4:A:405:VAL:CG1	4:A:406:ILE:N	2.55	0.67
4:A:427:GLN:O	4:A:428:TYR:C	2.38	0.67
4:A:530:GLY:HA2	4:A:533:LYS:N	2.04	0.67
4:A:755:PHE:O	4:A:758:ILE:N	2.26	0.67
4:A:971:PHE:O	4:A:973:ILE:HD12	1.94	0.67
4:A:1364:ASN:HD21	4:A:1366:ARG:HH11	1.43	0.67
5:B:273:LEU:HB2	5:B:276:ILE:HD12	1.77	0.67
5:B:426:LYS:O	5:B:426:LYS:HG3	1.94	0.67
5:B:516:ASN:HD22	5:B:516:ASN:H	1.42	0.67
5:B:882:THR:HG21	5:B:935:ARG:CA	2.23	0.67
5:B:984:HIS:ND1	5:B:984:HIS:N	2.36	0.67
5:B:1033:LYS:HB2	5:B:1089:PRO:HD2	1.76	0.67
5:B:1219:ASP:O	5:B:1220:ARG:C	2.36	0.67
6:C:57:VAL:CG2	11:J:57:ILE:HD11	2.24	0.67
7:E:11:ARG:O	7:E:12:LEU:C	2.36	0.67
9:H:7:ASP:O	9:H:8:ASP:CB	2.42	0.67
12:K:101:LEU:C	12:K:101:LEU:HD22	2.20	0.67
13:L:52:GLY:O	13:L:54:ARG:N	2.28	0.67
4:A:241:VAL:HG13	4:A:266:LEU:CD1	2.25	0.67
4:A:244:PRO:O	4:A:247:ARG:N	2.26	0.67
4:A:535:THR:HG21	4:A:617:VAL:H	1.60	0.67
4:A:738:LYS:HZ1	6:C:194:GLU:HA	1.57	0.67
5:B:298:LEU:O	5:B:302:CYS:N	2.26	0.67
5:B:363:HIS:ND1	5:B:363:HIS:N	2.32	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:563:MET:O	5:B:564:GLU:C	2.37	0.67
5:B:686:ASN:ND2	5:B:686:ASN:N	2.43	0.67
5:B:1177:HIS:O	5:B:1178:ASN:C	2.37	0.67
9:H:31:THR:O	9:H:32:THR:HB	1.95	0.67
13:L:59:ALA:CB	13:L:60:ARG:O	2.41	0.67
4:A:135:PHE:C	4:A:135:PHE:HD2	2.02	0.67
4:A:289:ILE:HG22	4:A:290:GLU:N	2.10	0.67
4:A:294:SER:O	4:A:298:PHE:HB3	1.95	0.67
4:A:523:ILE:C	4:A:524:VAL:HG22	2.19	0.67
5:B:46:GLN:HE22	5:B:496:ARG:HA	1.60	0.67
5:B:331:LEU:C	5:B:332:ASP:O	2.37	0.67
5:B:381:MET:O	5:B:385:LEU:N	2.22	0.67
5:B:825:VAL:CG1	5:B:825:VAL:C	2.68	0.67
5:B:880:THR:O	5:B:933:SER:OG	2.12	0.67
5:B:1170:THR:O	5:B:1170:THR:HG22	1.95	0.67
10:I:16:PRO:CG	10:I:16:PRO:C	2.62	0.67
13:L:53:HIS:O	13:L:55:ILE:HG12	1.94	0.67
4:A:209:ASN:O	4:A:212:LYS:N	2.27	0.67
4:A:630:ILE:H	4:A:630:ILE:HD12	1.58	0.67
4:A:1042:PHE:O	4:A:1046:LEU:HB2	1.95	0.67
4:A:1142:THR:CG2	4:A:1142:THR:HB	2.17	0.67
4:A:1161:THR:CG2	4:A:1162:VAL:N	2.58	0.67
4:A:1345:ARG:HD2	4:A:1373:ASP:OD1	1.93	0.67
5:B:1073:TYR:N	5:B:1073:TYR:CD1	2.62	0.67
5:B:1135:ARG:NH2	5:B:1136:ASP:OD1	2.24	0.67
5:B:1171:VAL:HG12	5:B:1172:ILE:N	2.10	0.67
6:C:31:ASN:C	6:C:33:LEU:H	2.02	0.67
10:I:115:LYS:O	10:I:116:ASN:O	2.12	0.67
12:K:23:PRO:O	12:K:23:PRO:HD2	1.94	0.67
4:A:343:LYS:HD3	5:B:1155:SER:OG	1.95	0.67
4:A:423:ASP:C	4:A:424:ILE:CG1	2.58	0.67
4:A:526:ASP:O	4:A:529:CYS:N	2.28	0.67
5:B:189:LEU:C	5:B:191:LYS:N	2.36	0.67
5:B:300:HIS:CE1	5:B:376:PHE:CE2	2.83	0.67
5:B:392:ARG:O	5:B:393:LYS:HE3	1.95	0.67
5:B:744:HIS:O	5:B:747:MET:HG2	1.95	0.67
5:B:992:ILE:HD11	12:K:67:PHE:HE2	1.59	0.67
5:B:1192:TYR:CE2	5:B:1218:THR:HG21	2.29	0.67
10:I:86:PHE:CD1	10:I:86:PHE:C	2.71	0.67
12:K:101:LEU:C	12:K:101:LEU:CD2	2.67	0.67
4:A:308:ILE:HB	4:A:309:ALA:HB3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:523:ILE:HG22	4:A:528:LEU:CB	2.23	0.67
4:A:577:ILE:O	4:A:578:LEU:C	2.37	0.67
4:A:1161:THR:HG22	4:A:1162:VAL:C	2.15	0.67
4:A:1169:ILE:H	4:A:1169:ILE:HD12	1.60	0.67
4:A:1209:MET:SD	4:A:1236:LEU:CD2	2.76	0.67
5:B:34:ILE:CD1	5:B:542:MET:HE1	2.22	0.67
5:B:108:VAL:CG1	5:B:108:VAL:CG2	2.72	0.67
5:B:698:GLU:O	5:B:701:ILE:HD12	1.95	0.67
7:E:190:LEU:HA	7:E:190:LEU:HD22	1.77	0.67
8:F:80:ALA:O	8:F:81:THR:C	2.37	0.67
2:T:12:DC:O3'	2:T:12:DC:C2'	2.40	0.66
4:A:320:ARG:C	4:A:322:VAL:CG1	2.68	0.66
4:A:354:SER:HA	4:A:482:PHE:CD2	2.30	0.66
4:A:418:SER:O	4:A:421:ALA:CB	2.43	0.66
4:A:900:ASP:N	4:A:926:GLN:HE22	1.93	0.66
4:A:913:LEU:HD12	4:A:914:GLU:N	2.10	0.66
4:A:1227:ILE:C	4:A:1228:TRP:CE3	2.73	0.66
5:B:447:ALA:C	5:B:447:ALA:CB	2.64	0.66
5:B:1084:GLN:HE22	6:C:191:TYR:C	2.03	0.66
7:E:112:TYR:CE1	7:E:136:ASN:CB	2.75	0.66
8:F:103:MET:CE	8:F:103:MET:SD	2.84	0.66
8:F:147:SER:O	8:F:151:LEU:HD11	1.95	0.66
9:H:81:PRO:CA	9:H:82:PRO:N	2.55	0.66
12:K:65:HIS:CD2	12:K:66:PRO:CD	2.78	0.66
4:A:344:ARG:HG2	5:B:1128:LEU:O	1.95	0.66
4:A:1264:GLU:O	4:A:1264:GLU:HG3	1.90	0.66
4:A:1290:LYS:O	4:A:1291:VAL:HG22	1.95	0.66
4:A:1348:LEU:HD21	4:A:1375:MET:SD	2.35	0.66
5:B:502:ILE:C	5:B:502:ILE:CG2	2.68	0.66
5:B:910:VAL:CG1	5:B:910:VAL:CG2	2.69	0.66
5:B:951:GLN:CG	5:B:951:GLN:NE2	2.55	0.66
12:K:6:ARG:O	12:K:8:GLU:N	2.28	0.66
4:A:590:ARG:CG	4:A:590:ARG:CZ	2.73	0.66
4:A:858:ASN:ND2	4:A:860:LEU:N	2.43	0.66
4:A:1410:PHE:O	4:A:1411:GLU:C	2.36	0.66
5:B:332:ASP:C	5:B:334:ILE:H	2.00	0.66
5:B:427:ASP:HA	5:B:430:ARG:NH1	2.01	0.66
5:B:477:ALA:HB1	5:B:478:GLY:O	1.95	0.66
5:B:1067:ARG:O	5:B:1086:PHE:CE1	2.48	0.66
5:B:1191:ILE:C	5:B:1192:TYR:CG	2.71	0.66
7:E:23:VAL:HG13	7:E:28:TYR:CD1	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:80:VAL:HA	7:E:109:ILE:HG21	1.77	0.66
7:E:178:ILE:HG23	7:E:214:CYS:CB	2.19	0.66
8:F:75:PRO:O	8:F:77:ASP:N	2.27	0.66
4:A:567:LYS:HB2	4:A:568:PRO:CD	2.23	0.66
5:B:214:ALA:C	5:B:215:GLN:HG2	2.19	0.66
5:B:372:SER:O	5:B:373:ARG:C	2.34	0.66
6:C:31:ASN:O	6:C:33:LEU:N	2.29	0.66
4:A:99:ILE:HA	4:A:102:VAL:CG2	2.24	0.66
4:A:138:ILE:O	4:A:139:TRP:C	2.33	0.66
4:A:315:LEU:HD12	4:A:319:GLY:HA2	1.75	0.66
4:A:464:PRO:HG2	4:A:465:TYR:HD1	1.60	0.66
4:A:524:VAL:CG1	4:A:524:VAL:CA	2.70	0.66
4:A:606:LEU:O	4:A:607:ILE:HG13	1.96	0.66
4:A:765:VAL:HG22	4:A:802:ASN:O	1.95	0.66
4:A:809:THR:HB	4:A:810:PRO:HD2	1.77	0.66
4:A:1004:ASN:ND2	7:E:167:ARG:CG	2.58	0.66
4:A:1193:LEU:CD1	4:A:1194:ARG:N	2.58	0.66
4:A:1195:LEU:CD1	4:A:1267:MET:HE1	2.25	0.66
4:A:1282:VAL:C	4:A:1283:VAL:HG23	2.16	0.66
5:B:125:SER:HB2	5:B:171:PRO:N	2.11	0.66
5:B:759:PRO:HD3	5:B:1046:PRO:HG3	1.77	0.66
5:B:956:THR:O	5:B:956:THR:HG23	1.88	0.66
7:E:168:TYR:O	7:E:169:ARG:HG3	1.95	0.66
4:A:441:PRO:O	4:A:442:VAL:CG1	2.44	0.66
4:A:681:GLU:O	4:A:682:THR:C	2.37	0.66
4:A:756:ILE:HG22	4:A:757:ASN:H	1.58	0.66
4:A:943:LEU:O	4:A:944:ARG:C	2.28	0.66
4:A:990:VAL:HG21	4:A:1026:LEU:O	1.96	0.66
4:A:1097:GLY:C	4:A:1099:PRO:HD2	2.20	0.66
4:A:1224:LEU:HG	4:A:1226:VAL:CG2	2.25	0.66
4:A:1316:VAL:O	4:A:1316:VAL:HG12	1.93	0.66
5:B:219:ALA:HB3	5:B:222:ILE:HD11	1.77	0.66
5:B:263:GLY:O	5:B:264:SER:C	2.38	0.66
5:B:487:THR:O	5:B:488:TYR:C	2.38	0.66
5:B:627:PHE:O	5:B:632:ARG:NH1	2.29	0.66
5:B:739:THR:OG1	5:B:740:HIS:CE1	2.49	0.66
5:B:1006:ILE:HG21	5:B:1087:PHE:HE2	1.61	0.66
5:B:1152:MET:CE	5:B:1196:ILE:HA	2.26	0.66
6:C:163:ILE:O	6:C:164:ALA:C	2.33	0.66
6:C:227:THR:HG22	6:C:229:TYR:HE1	1.61	0.66
8:F:135:ARG:CZ	8:F:143:PHE:CZ	2.79	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:H:84:ALA:CA	9:H:86:ASP:H	2.08	0.66
10:I:85:PHE:HD1	10:I:86:PHE:N	1.94	0.66
4:A:207:ILE:HA	4:A:210:ILE:HG13	1.76	0.66
4:A:273:ASN:OD1	4:A:296:LEU:CD2	2.44	0.66
4:A:629:LEU:N	4:A:630:ILE:HD12	2.11	0.66
4:A:768:GLN:HB2	4:A:798:GLY:O	1.96	0.66
4:A:919:ILE:O	4:A:922:ASP:N	2.29	0.66
4:A:1006:ILE:HD11	7:E:163:GLU:OE2	1.96	0.66
4:A:1017:LEU:CB	7:E:205:SER:CA	2.74	0.66
4:A:1139:GLU:O	4:A:1139:GLU:HG2	1.94	0.66
4:A:1208:THR:O	4:A:1211:GLN:CB	2.44	0.66
5:B:266:ALA:HA	5:B:267:ARG:N	2.09	0.66
5:B:610:ASN:OD1	5:B:611:PRO:N	2.28	0.66
5:B:995:ARG:O	5:B:996:ARG:C	2.36	0.66
9:H:108:SER:O	9:H:109:LYS:HG3	1.95	0.66
12:K:73:LEU:HG	12:K:74:ARG:N	2.10	0.66
2:T:20:DC:C4	2:T:21:DC:C5	2.84	0.66
4:A:399:HIS:C	4:A:401:GLY:H	2.04	0.66
4:A:531:ILE:CG1	4:A:622:VAL:HG11	2.26	0.66
4:A:777:PHE:CE2	4:A:782:ARG:CA	2.79	0.66
4:A:1077:THR:C	4:A:1078:GLN:HG2	2.19	0.66
4:A:1429:ILE:O	5:B:1197:PRO:HG2	1.95	0.66
5:B:238:ALA:O	5:B:256:VAL:N	2.25	0.66
5:B:476:ARG:CG	5:B:476:ARG:NE	2.58	0.66
5:B:899:ILE:HD11	5:B:911:ILE:HG12	1.76	0.66
6:C:136:ASP:C	6:C:136:ASP:N	2.49	0.66
9:H:135:LEU:CD2	9:H:135:LEU:HG	2.11	0.66
4:A:397:ASN:OD1	4:A:397:ASN:N	2.28	0.66
4:A:746:MET:HG2	5:B:1015:HIS:CE1	2.31	0.66
4:A:868:TYR:CE1	4:A:1064:VAL:CG1	2.66	0.66
4:A:929:LEU:HD21	4:A:983:ILE:CG2	2.25	0.66
4:A:964:ILE:HG22	4:A:965:GLN:N	2.10	0.66
4:A:1277:GLU:CB	4:A:1277:GLU:HA	2.17	0.66
4:A:1362:TYR:HD1	4:A:1363:VAL:H	0.75	0.66
5:B:796:LEU:HB3	5:B:799:PRO:HG3	1.78	0.66
9:H:15:VAL:HG21	9:H:50:ALA:HA	1.78	0.66
4:A:431:LYS:O	4:A:432:VAL:HG22	1.95	0.66
4:A:491:VAL:HG12	4:A:492:PRO:CD	2.26	0.66
4:A:948:VAL:C	4:A:950:GLY:H	2.02	0.66
4:A:1445:ILE:CA	4:A:1445:ILE:HB	2.16	0.66
5:B:313:MET:CG	5:B:390:LEU:HD21	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:589:VAL:CG1	5:B:590:HIS:N	2.56	0.66
5:B:830:TYR:HE1	5:B:1000:PRO:HB3	1.61	0.66
4:A:337:ARG:NH1	4:A:839:ARG:NH1	2.44	0.65
4:A:718:VAL:O	4:A:722:LEU:HD12	1.96	0.65
4:A:767:GLN:HG3	4:A:768:GLN:N	2.10	0.65
4:A:804:TYR:CE1	5:B:1021:MET:HE3	2.31	0.65
4:A:868:TYR:CE1	4:A:1064:VAL:HG21	2.31	0.65
4:A:912:LEU:O	4:A:978:PRO:HB2	1.95	0.65
4:A:1147:THR:HG22	10:I:48:LEU:CD1	2.26	0.65
4:A:1299:VAL:CG1	4:A:1300:LYS:N	2.55	0.65
4:A:1361:SER:CB	4:A:1361:SER:N	2.58	0.65
5:B:234:ILE:H	5:B:234:ILE:CD1	2.06	0.65
5:B:329:THR:C	5:B:332:ASP:HB2	2.21	0.65
5:B:860:MET:HG3	5:B:861:ASP:H	1.57	0.65
5:B:986:GLN:OE1	5:B:986:GLN:C	2.39	0.65
7:E:213:ILE:HG13	7:E:214:CYS:N	2.10	0.65
8:F:75:PRO:O	8:F:77:ASP:O	2.13	0.65
2:T:28:DT:H2"	4:A:317:LYS:HG2	0.66	0.65
4:A:23:SER:HB3	4:A:233:TRP:CZ2	2.31	0.65
4:A:33:ALA:C	4:A:83:HIS:HD2	2.03	0.65
4:A:68:GLN:NE2	4:A:80:HIS:NE2	2.45	0.65
4:A:500:GLU:HG2	5:B:1143:ALA:CB	2.26	0.65
4:A:966:ASN:O	4:A:1044:TRP:CH2	2.49	0.65
5:B:256:VAL:O	5:B:385:LEU:HD13	1.95	0.65
5:B:624:LEU:C	5:B:624:LEU:HD12	2.21	0.65
5:B:635:ARG:HG3	5:B:636:PRO:CD	2.23	0.65
5:B:739:THR:HG1	5:B:740:HIS:CE1	2.13	0.65
5:B:802:PRO:HB3	5:B:1091:TYR:CD1	2.30	0.65
6:C:70:ILE:CD1	6:C:144:ILE:HD11	2.25	0.65
7:E:35:VAL:CB	7:E:35:VAL:HA	2.14	0.65
4:A:7:SER:OG	4:A:9:ALA:N	2.29	0.65
4:A:68:GLN:NE2	4:A:70:CYS:CB	2.60	0.65
4:A:403:LYS:HB2	4:A:404:TYR:CD1	2.30	0.65
5:B:65:GLU:N	5:B:67:SER:HB3	2.11	0.65
5:B:317:CYS:O	5:B:318:VAL:C	2.39	0.65
5:B:332:ASP:C	5:B:334:ILE:N	2.54	0.65
5:B:750:GLY:O	5:B:751:VAL:C	2.39	0.65
5:B:882:THR:CG2	5:B:884:ARG:H	2.10	0.65
5:B:955:THR:OG1	13:L:55:ILE:HA	1.97	0.65
5:B:1059:LEU:HD11	5:B:1064:TYR:HB2	1.78	0.65
6:C:145:CYS:SG	6:C:146:LYS:N	2.69	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:K:103:THR:HG22	12:K:104:ASN:N	2.10	0.65
4:A:337:ARG:HD3	5:B:1132:GLU:CD	2.21	0.65
4:A:689:LYS:HB3	4:A:721:PHE:CE1	2.31	0.65
4:A:737:LEU:HD23	4:A:737:LEU:N	2.11	0.65
4:A:808:LEU:CD2	4:A:816:HIS:HD2	2.09	0.65
4:A:1057:VAL:CG1	4:A:1058:VAL:N	2.60	0.65
4:A:1168:GLU:C	4:A:1170:ILE:H	2.05	0.65
4:A:1172:LEU:H	4:A:1172:LEU:CD2	2.10	0.65
5:B:258:LEU:C	5:B:258:LEU:HD12	2.08	0.65
5:B:878:GLN:O	5:B:879:ARG:CB	2.45	0.65
5:B:882:THR:HG21	5:B:934:LYS:O	1.97	0.65
5:B:882:THR:HG23	5:B:884:ARG:H	1.60	0.65
7:E:52:ARG:CB	7:E:52:ARG:N	2.56	0.65
9:H:115:TYR:HA	9:H:123:MET:O	1.97	0.65
1:R:8:G:N2	2:T:22:DT:N3	2.45	0.65
4:A:167:CYS:O	4:A:169:ASN:ND2	2.29	0.65
4:A:567:LYS:NZ	9:H:95:TYR:CE2	2.64	0.65
4:A:898:ARG:HA	4:A:933:TYR:CE1	2.32	0.65
4:A:986:ILE:HD11	4:A:1032:LEU:HD21	1.77	0.65
5:B:32:ALA:O	5:B:35:SER:HB2	1.97	0.65
5:B:686:ASN:C	5:B:688:GLY:H	2.04	0.65
5:B:986:GLN:CD	5:B:986:GLN:CA	2.69	0.65
7:E:35:VAL:CG2	7:E:35:VAL:CG1	2.71	0.65
7:E:119:SER:CB	7:E:119:SER:C	2.70	0.65
7:E:124:VAL:HA	7:E:132:ILE:HG21	1.76	0.65
4:A:237:THR:HB	4:A:238:CYS:CB	2.25	0.65
4:A:265:LYS:NZ	4:A:323:LYS:HD3	2.08	0.65
4:A:267:ALA:C	4:A:269:ILE:N	2.54	0.65
4:A:1015:VAL:HG13	4:A:1019:CYS:SG	2.35	0.65
5:B:273:LEU:HD11	5:B:285:ILE:HD11	1.78	0.65
5:B:383:ASN:ND2	5:B:384:ARG:HH11	1.95	0.65
5:B:991:GLY:O	5:B:992:ILE:HB	1.95	0.65
5:B:1104:HIS:ND1	5:B:1105:ALA:N	2.44	0.65
6:C:33:LEU:O	6:C:34:ARG:C	2.34	0.65
6:C:92:CYS:N	6:C:95:CYS:SG	2.66	0.65
4:A:341:MET:CE	4:A:341:MET:CG	2.75	0.65
4:A:403:LYS:HB2	4:A:404:TYR:HD1	1.61	0.65
4:A:443:LEU:CD2	4:A:456:MET:H	2.08	0.65
4:A:493:GLN:HE21	4:A:493:GLN:N	1.94	0.65
4:A:720:ARG:CB	4:A:720:ARG:NE	2.60	0.65
4:A:889:SER:O	4:A:940:ARG:NH2	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1237:ILE:HG23	4:A:1238:ILE:H	1.60	0.65
4:A:1390:ASN:HD22	4:A:1399:ARG:CB	2.05	0.65
5:B:166:PHE:HD2	5:B:166:PHE:O	1.80	0.65
5:B:530:GLY:O	5:B:532:ALA:N	2.29	0.65
5:B:1060:ARG:O	5:B:1063:GLY:N	2.29	0.65
5:B:1184:GLY:C	5:B:1186:ASP:N	2.53	0.65
6:C:120:ILE:HD11	6:C:130:GLY:O	1.96	0.65
7:E:10:SER:O	7:E:14:ARG:HG3	1.96	0.65
7:E:42:PHE:CZ	7:E:58:MET:CE	2.79	0.65
10:I:17:ARG:O	10:I:26:LEU:CA	2.45	0.65
4:A:84:ILE:O	4:A:84:ILE:HD13	1.97	0.65
4:A:507:VAL:HG13	4:A:521:MET:HE1	1.78	0.65
4:A:989:GLY:O	4:A:990:VAL:C	2.40	0.65
4:A:993:LEU:CD1	4:A:997:LEU:HD21	2.26	0.65
4:A:1099:PRO:O	4:A:1102:LYS:HB3	1.97	0.65
4:A:1118:VAL:O	4:A:1305:VAL:HG13	1.97	0.65
4:A:1127:ASP:CB	4:A:1130:GLN:HB3	2.19	0.65
4:A:1191:TRP:CH2	4:A:1257:ASP:OD1	2.49	0.65
5:B:20:ASP:N	5:B:655:LYS:HZ2	1.94	0.65
5:B:313:MET:HE2	5:B:386:LEU:HD22	1.78	0.65
5:B:804:GLY:HA2	5:B:1042:GLY:O	1.96	0.65
5:B:859:TYR:OH	5:B:941:LEU:HD22	1.95	0.65
5:B:1196:ILE:CB	5:B:1197:PRO:CD	2.74	0.65
7:E:26:ARG:HD3	7:E:188:LEU:O	1.96	0.65
7:E:58:MET:O	7:E:60:PHE:HB3	1.97	0.65
10:I:74:GLU:HB3	10:I:75:CYS:O	1.97	0.65
12:K:34:THR:CG2	12:K:34:THR:CA	2.72	0.65
12:K:49:GLU:HG3	12:K:94:ILE:HD11	1.79	0.65
4:A:84:ILE:HG22	4:A:241:VAL:CG2	2.26	0.65
4:A:445:ASN:ND2	4:A:446:ARG:N	2.45	0.65
4:A:508:PRO:HD2	4:A:509:LEU:H	1.61	0.65
4:A:582:ILE:HG23	4:A:583:PRO:CD	2.26	0.65
4:A:622:VAL:CG2	4:A:622:VAL:O	2.44	0.65
5:B:263:GLY:C	5:B:264:SER:O	2.37	0.65
5:B:384:ARG:O	5:B:385:LEU:C	2.34	0.65
5:B:385:LEU:O	5:B:385:LEU:HG	1.97	0.65
5:B:473:MET:HA	5:B:475:SER:H	1.62	0.65
9:H:12:VAL:HA	9:H:28:ALA:CB	2.27	0.65
13:L:54:ARG:HH11	13:L:54:ARG:CG	2.10	0.65
4:A:78:PRO:O	4:A:79:GLY:O	2.14	0.65
4:A:346:ASP:HB2	5:B:1154:ALA:HB1	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:529:CYS:SG	4:A:662:PHE:CE2	2.89	0.65
4:A:618:GLU:CD	4:A:618:GLU:C	2.65	0.65
4:A:830:LYS:O	4:A:834:THR:OG1	2.11	0.65
4:A:1022:LEU:C	4:A:1022:LEU:HD12	2.20	0.65
4:A:1229:SER:HB3	4:A:1233:ASP:OD2	1.96	0.65
5:B:284:ILE:O	5:B:285:ILE:C	2.40	0.65
5:B:419:THR:CG2	5:B:419:THR:HB	2.13	0.65
5:B:640:VAL:O	5:B:641:GLU:C	2.38	0.65
5:B:782:LEU:O	5:B:783:THR:C	2.40	0.65
5:B:1171:VAL:CG1	5:B:1172:ILE:H	2.05	0.65
8:F:109:VAL:CG1	8:F:110:ASP:N	2.59	0.65
12:K:57:LEU:HD12	12:K:76:GLN:CG	2.25	0.65
2:T:22:DT:H71	2:T:22:DT:OP2	1.97	0.64
3:N:11:DG:H2"	3:N:12:DT:OP2	1.97	0.64
4:A:22:PHE:HB2	5:B:1211:ASN:OD1	1.97	0.64
4:A:50:ILE:C	4:A:52:GLY:H	2.05	0.64
4:A:608:ILE:O	4:A:609:ASP:O	2.15	0.64
4:A:982:THR:HB	4:A:985:ASP:H	1.62	0.64
4:A:1140:HIS:CB	4:A:1276:VAL:O	2.43	0.64
4:A:1222:ASN:O	4:A:1223:ASP:HB3	1.96	0.64
4:A:1290:LYS:O	4:A:1291:VAL:CG2	2.45	0.64
4:A:1313:LEU:C	4:A:1316:VAL:H	2.05	0.64
5:B:1065:GLN:HE21	5:B:1066:SER:N	1.95	0.64
5:B:1160:VAL:O	5:B:1194:ILE:HD13	1.96	0.64
12:K:1:MET:O	12:K:1:MET:HG3	1.97	0.64
12:K:47:ARG:HG3	12:K:60:ALA:HA	1.79	0.64
2:T:18:DA:H2'	2:T:19:DT:C7	2.28	0.64
4:A:427:GLN:O	4:A:428:TYR:O	2.15	0.64
4:A:743:VAL:O	4:A:743:VAL:HG12	1.88	0.64
4:A:785:PRO:HG3	5:B:698:GLU:HG2	1.79	0.64
5:B:170:LEU:HD12	5:B:171:PRO:HG2	1.80	0.64
5:B:287:ARG:NH2	5:B:294:ASP:OD2	2.30	0.64
5:B:446:LEU:O	5:B:447:ALA:HB3	1.95	0.64
5:B:449:ASN:ND2	5:B:451:LYS:HD2	2.12	0.64
5:B:515:HIS:HD2	5:B:517:THR:OG1	1.79	0.64
5:B:635:ARG:HD2	5:B:636:PRO:CG	2.27	0.64
5:B:1056:SER:O	5:B:1066:SER:HB2	1.97	0.64
6:C:35:ARG:O	6:C:38:ILE:HB	1.98	0.64
6:C:237:SER:C	6:C:238:ILE:HG13	2.21	0.64
7:E:79:TRP:CE3	7:E:79:TRP:HA	2.33	0.64
9:H:95:TYR:CE2	9:H:97:MET:SD	2.90	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:H:135:LEU:CD2	9:H:136:LYS:CD	2.76	0.64
10:I:42:LEU:O	10:I:43:VAL:HG23	1.92	0.64
10:I:52:ILE:CA	10:I:52:ILE:CG1	2.71	0.64
3:N:6:DT:H2"	3:N:7:DA:OP2	1.97	0.64
4:A:356:ASP:HB2	4:A:469:ARG:NH1	2.12	0.64
4:A:364:VAL:HG12	4:A:458:HIS:CB	2.27	0.64
4:A:432:VAL:O	4:A:433:GLU:O	2.14	0.64
4:A:548:ASN:OD1	12:K:60:ALA:HB1	1.97	0.64
4:A:668:ASP:H	6:C:192:TRP:HZ2	1.44	0.64
4:A:837:ILE:C	4:A:839:ARG:H	2.05	0.64
4:A:895:LYS:CB	4:A:895:LYS:C	2.69	0.64
4:A:1210:GLY:O	4:A:1214:GLU:N	2.26	0.64
4:A:1236:LEU:O	4:A:1237:ILE:HG13	1.97	0.64
5:B:377:PHE:O	5:B:378:LEU:C	2.40	0.64
5:B:580:VAL:HG13	5:B:581:PHE:N	2.13	0.64
5:B:601:ARG:O	5:B:603:LEU:N	2.30	0.64
5:B:769:TYR:O	5:B:771:SER:N	2.31	0.64
5:B:815:ARG:NH2	5:B:1041:GLU:OE1	2.30	0.64
9:H:38:LEU:CD1	9:H:125:LEU:HD13	2.28	0.64
9:H:57:VAL:CG1	9:H:57:VAL:C	2.70	0.64
9:H:58:THR:HB	9:H:143:LEU:HD12	1.79	0.64
11:J:43:ARG:HG3	11:J:46:CYS:HB2	1.80	0.64
13:L:34:CYS:O	13:L:35:SER:HB2	1.97	0.64
2:T:5:DC:H2"	2:T:6:DG:OP2	1.97	0.64
2:T:13:DA:N6	3:N:2:DT:C5	2.46	0.64
5:B:485:ARG:HG2	5:B:485:ARG:NH1	2.06	0.64
5:B:515:HIS:O	5:B:517:THR:N	2.30	0.64
6:C:36:VAL:O	6:C:37:MET:C	2.36	0.64
6:C:121:VAL:C	6:C:121:VAL:HG12	2.18	0.64
7:E:96:PHE:O	7:E:97:VAL:C	2.40	0.64
10:I:3:THR:HG22	10:I:4:PHE:O	1.98	0.64
10:I:9:ASP:C	10:I:9:ASP:HA	2.09	0.64
10:I:107:SER:C	10:I:107:SER:HA	2.11	0.64
13:L:58:LYS:O	13:L:59:ALA:HB2	1.96	0.64
4:A:169:ASN:HD22	4:A:169:ASN:N	1.95	0.64
4:A:265:LYS:HZ1	4:A:323:LYS:CD	2.09	0.64
4:A:419:LYS:HB3	4:A:419:LYS:HZ2	1.62	0.64
4:A:1004:ASN:HD22	7:E:167:ARG:HD2	0.52	0.64
4:A:1364:ASN:ND2	4:A:1366:ARG:N	2.43	0.64
5:B:779:GLY:HA2	5:B:796:LEU:HB2	1.79	0.64
5:B:798:TYR:N	5:B:799:PRO:HD3	2.09	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:1033:LYS:O	5:B:1034:VAL:C	2.39	0.64
10:I:29:CYS:SG	10:I:31:THR:CA	2.77	0.64
2:T:7:DA:H2"	2:T:8:DT:OP2	1.98	0.64
4:A:878:ILE:C	4:A:879:GLU:HG3	2.22	0.64
4:A:909:ASP:OD1	4:A:910:PRO:HD3	1.97	0.64
4:A:1018:PHE:O	4:A:1021:LEU:HB3	1.97	0.64
4:A:1101:LEU:O	4:A:1105:LEU:HD12	1.97	0.64
4:A:1124:HIS:ND1	4:A:1127:ASP:OD2	2.31	0.64
4:A:1152:ILE:O	4:A:1152:ILE:CG2	2.40	0.64
5:B:102:VAL:HG21	5:B:112:LEU:HB2	1.79	0.64
5:B:857:ARG:HD3	5:B:945:GLU:OE1	1.97	0.64
5:B:916:THR:O	5:B:916:THR:CG2	2.46	0.64
6:C:39:ALA:HA	6:C:164:ALA:CB	2.27	0.64
6:C:167:HIS:CD2	6:C:168:ALA:N	2.64	0.64
7:E:80:VAL:HA	7:E:109:ILE:CG2	2.27	0.64
9:H:82:PRO:C	9:H:82:PRO:HA	2.15	0.64
11:J:14:VAL:O	11:J:17:LYS:HB2	1.97	0.64
2:T:4:DC:H2"	2:T:5:DC:OP2	1.98	0.64
4:A:239:LEU:HD13	4:A:240:PRO:HD2	1.79	0.64
4:A:577:ILE:C	4:A:579:SER:N	2.50	0.64
4:A:608:ILE:HG22	4:A:609:ASP:N	2.12	0.64
4:A:765:VAL:CG2	4:A:800:VAL:HG11	2.28	0.64
4:A:844:ALA:HB2	4:A:1389:PHE:CE2	2.32	0.64
4:A:857:ARG:HG2	4:A:863:VAL:HG22	1.78	0.64
4:A:964:ILE:HD12	4:A:1037:LEU:HD21	1.79	0.64
4:A:1132:LYS:O	4:A:1133:LEU:O	2.15	0.64
6:C:135:GLN:C	6:C:136:ASP:O	2.41	0.64
7:E:182:ASP:O	7:E:184:VAL:N	2.31	0.64
9:H:109:LYS:CB	9:H:111:LEU:N	2.60	0.64
9:H:109:LYS:CB	9:H:111:LEU:H	2.11	0.64
3:N:4:DC:H2"	3:N:5:DT:OP2	1.98	0.64
4:A:216:VAL:O	4:A:219:PHE:HB2	1.97	0.64
4:A:618:GLU:CD	4:A:619:LYS:N	2.56	0.64
4:A:668:ASP:N	6:C:192:TRP:HZ2	1.95	0.64
4:A:983:ILE:O	4:A:983:ILE:HG22	1.95	0.64
4:A:1111:MET:CE	4:A:1111:MET:HB2	2.26	0.64
4:A:1362:TYR:HE1	4:A:1364:ASN:HA	1.62	0.64
5:B:788:ARG:HH11	5:B:788:ARG:HB2	1.61	0.64
6:C:46:ILE:HD13	6:C:159:ALA:HB2	1.80	0.64
7:E:126:SER:OG	7:E:127:ILE:HG23	1.98	0.64
9:H:77:ARG:O	9:H:78:SER:C	2.38	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:2:DT:H2"	2:T:3:DA:OP2	1.98	0.64
4:A:568:PRO:HB3	6:C:221:TYR:CE1	2.33	0.64
4:A:744:LYS:HG2	4:A:748:MET:HE3	1.80	0.64
4:A:1017:LEU:CB	7:E:205:SER:HA	2.27	0.64
4:A:1041:ALA:O	4:A:1044:TRP:N	2.27	0.64
5:B:104:GLU:HG3	13:L:54:ARG:CZ	2.28	0.64
5:B:274:PRO:O	5:B:276:ILE:N	2.31	0.64
5:B:316:PRO:HA	5:B:319:GLU:CG	2.27	0.64
5:B:461:LEU:HD11	5:B:466:TRP:HH2	1.63	0.64
5:B:601:ARG:N	5:B:615:MET:HE1	2.13	0.64
5:B:769:TYR:C	5:B:771:SER:H	2.04	0.64
5:B:796:LEU:HB3	5:B:799:PRO:CG	2.27	0.64
7:E:158:SER:CB	7:E:159:ASP:N	2.60	0.64
10:I:17:ARG:HG2	10:I:18:GLU:CB	2.28	0.64
11:J:7:CYS:CB	11:J:49:MET:HE3	2.27	0.64
4:A:17:VAL:CG1	4:A:17:VAL:CG2	2.72	0.64
4:A:54:ASN:OD1	4:A:54:ASN:O	2.16	0.64
4:A:58:LEU:HD22	4:A:243:PRO:HB2	1.79	0.64
4:A:99:ILE:HA	4:A:102:VAL:HG23	1.80	0.64
4:A:101:LYS:HG2	4:A:139:TRP:CZ2	2.32	0.64
4:A:250:ILE:CA	4:A:250:ILE:CG1	2.75	0.64
4:A:635:ARG:NH2	4:A:877:HIS:HA	2.13	0.64
4:A:837:ILE:C	4:A:839:ARG:N	2.52	0.64
4:A:1308:THR:CG2	4:A:1310:GLY:H	2.07	0.64
4:A:1347:ALA:O	4:A:1348:LEU:C	2.40	0.64
4:A:1361:SER:CA	4:A:1361:SER:HB3	2.17	0.64
4:A:1441:PHE:HZ	8:F:88:TYR:O	1.81	0.64
5:B:773:MET:O	5:B:775:LYS:N	2.31	0.64
5:B:1026:LEU:O	5:B:1027:ILE:C	2.33	0.64
6:C:68:GLY:C	6:C:69:LEU:HD12	2.23	0.64
7:E:164:LEU:HD22	7:E:211:TYR:HD2	1.59	0.64
7:E:189:GLY:C	7:E:190:LEU:CD2	2.70	0.64
1:R:5:A:H2'	1:R:6:G:O4'	1.98	0.63
3:N:5:DT:H2"	3:N:6:DT:OP2	1.97	0.63
4:A:12:ARG:HD3	5:B:1192:TYR:HE2	1.63	0.63
4:A:1113:THR:O	4:A:1113:THR:HG22	1.97	0.63
4:A:1155:ASP:CG	4:A:1162:VAL:HG23	2.23	0.63
5:B:199:MET:C	5:B:200:GLY:O	2.39	0.63
5:B:305:VAL:CB	5:B:305:VAL:N	2.60	0.63
5:B:474:SER:HA	5:B:476:ARG:HG3	1.79	0.63
5:B:604:ARG:NH2	5:B:614:SER:HA	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:1124:ARG:O	5:B:1125:ASP:HB3	1.97	0.63
6:C:116:LYS:HE2	6:C:117:ASP:OD1	1.98	0.63
6:C:182:PRO:HB2	6:C:207:CYS:SG	2.38	0.63
7:E:14:ARG:NH2	7:E:141:VAL:HG12	2.13	0.63
7:E:79:TRP:N	7:E:107:THR:O	2.31	0.63
9:H:132:LEU:C	9:H:132:LEU:N	2.54	0.63
10:I:10:CYS:CB	10:I:31:THR:HG21	2.18	0.63
12:K:78:THR:HG22	12:K:79:GLU:C	2.22	0.63
3:N:8:DT:H2"	3:N:9:DC:OP2	1.97	0.63
4:A:532:ARG:HH12	4:A:745:GLN:NE2	1.97	0.63
4:A:929:LEU:HD21	4:A:983:ILE:HG21	1.80	0.63
4:A:1022:LEU:CD2	4:A:1022:LEU:HG	2.14	0.63
4:A:1074:GLU:HB3	4:A:1075:PRO:CD	2.27	0.63
5:B:117:ALA:HB1	5:B:122:LEU:O	1.98	0.63
5:B:640:VAL:CG2	5:B:739:THR:C	2.70	0.63
5:B:1074:ASN:OD1	5:B:1076:HIS:N	2.25	0.63
8:F:134:ILE:CG2	8:F:135:ARG:N	2.61	0.63
9:H:5:LEU:O	9:H:6:PHE:HB2	1.98	0.63
9:H:135:LEU:HD13	9:H:137:GLN:NE2	2.14	0.63
2:T:18:DA:H2'	2:T:19:DT:H72	1.80	0.63
4:A:598:LEU:O	4:A:599:SER:C	2.34	0.63
4:A:670:ILE:O	4:A:670:ILE:HG22	1.95	0.63
4:A:902:LEU:HD23	4:A:921:GLY:O	1.98	0.63
5:B:420:LEU:CD2	5:B:468:GLU:OE2	2.46	0.63
5:B:421:PHE:CG	5:B:421:PHE:O	2.51	0.63
5:B:740:HIS:N	5:B:740:HIS:ND1	2.45	0.63
5:B:1024:ALA:HA	5:B:1027:ILE:CD1	2.28	0.63
6:C:43:THR:HG22	6:C:44:LEU:N	2.10	0.63
3:N:2:DT:O2	3:N:3:DG:O6	2.13	0.63
5:B:639:ILE:HG23	5:B:640:VAL:H	1.63	0.63
8:F:81:THR:HG23	8:F:136:ARG:HD3	1.80	0.63
12:K:49:GLU:C	12:K:51:LEU:N	2.55	0.63
12:K:63:VAL:O	12:K:63:VAL:HG23	1.96	0.63
1:R:8:G:O3'	5:B:776:GLN:NE2	2.30	0.63
3:N:2:DT:H2"	3:N:3:DG:C8	2.33	0.63
4:A:325:ILE:O	4:A:325:ILE:HG23	1.97	0.63
4:A:376:TYR:C	4:A:376:TYR:CD2	2.77	0.63
4:A:455:MET:O	4:A:456:MET:CB	2.45	0.63
4:A:562:THR:CG2	4:A:563:PRO:CD	2.76	0.63
4:A:1310:GLY:C	4:A:1311:VAL:HG23	2.23	0.63
5:B:377:PHE:C	5:B:379:GLY:H	2.07	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:530:GLY:O	5:B:533:CYS:HB2	1.99	0.63
5:B:705:MET:H	5:B:710:LEU:HD11	1.62	0.63
5:B:778:MET:HB3	5:B:796:LEU:HD13	1.81	0.63
5:B:883:LEU:CG	5:B:883:LEU:HB2	2.15	0.63
5:B:996:ARG:NH2	6:C:38:ILE:HD12	2.14	0.63
8:F:101:ILE:HG21	8:F:120:ILE:HG21	1.79	0.63
9:H:42:ILE:HD12	9:H:95:TYR:OH	1.99	0.63
12:K:103:THR:O	12:K:106:GLU:HB2	1.99	0.63
3:N:7:DA:H2"	3:N:8:DT:OP2	1.98	0.63
4:A:227:VAL:CA	4:A:227:VAL:CG2	2.75	0.63
4:A:1173:HIS:C	4:A:1173:HIS:CB	2.71	0.63
4:A:1208:THR:O	4:A:1212:VAL:HG23	1.98	0.63
5:B:554:ILE:HG22	5:B:555:ILE:N	2.11	0.63
5:B:1191:ILE:CG2	5:B:1192:TYR:N	2.58	0.63
5:B:1197:PRO:O	5:B:1200:ALA:CB	2.47	0.63
6:C:41:ILE:O	6:C:41:ILE:HG12	1.97	0.63
10:I:101:PHE:N	10:I:101:PHE:HD1	1.97	0.63
4:A:24:PRO:O	4:A:27:VAL:HB	1.98	0.63
4:A:419:LYS:HB3	4:A:419:LYS:HZ3	1.64	0.63
4:A:546:VAL:HG12	4:A:550:LEU:CD2	2.28	0.63
4:A:901:LEU:HA	4:A:907:THR:HG23	1.80	0.63
4:A:1129:GLU:O	4:A:1130:GLN:C	2.41	0.63
5:B:114:PRO:HG3	5:B:181:LEU:CD1	2.28	0.63
5:B:326:ASP:CG	5:B:329:THR:OG1	2.42	0.63
7:E:98:ILE:CA	7:E:98:ILE:CG1	2.75	0.63
3:N:13:DA:H2"	3:N:14:DG:OP2	1.98	0.63
4:A:96:ILE:HG22	4:A:97:ALA:N	2.13	0.63
4:A:99:ILE:HG12	4:A:234:MET:SD	2.39	0.63
4:A:289:ILE:HG22	4:A:290:GLU:H	1.62	0.63
4:A:391:LEU:HD13	4:A:400:PRO:O	1.98	0.63
4:A:446:ARG:HB2	4:A:487:MET:HG2	1.80	0.63
4:A:518:LYS:HG3	4:A:519:PRO:HD2	1.81	0.63
4:A:528:LEU:C	4:A:528:LEU:CD1	2.43	0.63
5:B:410:GLY:C	5:B:412:LEU:N	2.55	0.63
5:B:488:TYR:HE2	5:B:813:LYS:HB2	1.63	0.63
5:B:662:MET:C	5:B:664:THR:N	2.57	0.63
5:B:842:ASN:O	5:B:846:ILE:HG13	1.98	0.63
6:C:227:THR:C	6:C:228:PHE:CD1	2.77	0.63
9:H:58:THR:CG2	9:H:59:ILE:H	2.10	0.63
10:I:19:ASP:O	10:I:23:ASN:CA	2.46	0.63
12:K:24:ASP:CG	12:K:74:ARG:NH1	2.57	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:L:29:TYR:O	13:L:30:ILE:HG13	1.98	0.63
1:R:5:A:C4	1:R:6:G:N7	2.67	0.63
2:T:3:DA:H2"	2:T:4:DC:OP2	1.98	0.63
4:A:20:GLY:O	4:A:21:LEU:HD23	1.98	0.63
4:A:590:ARG:HB3	4:A:605:MET:N	2.14	0.63
4:A:709:THR:O	4:A:712:GLU:N	2.32	0.63
4:A:867:ILE:HG22	4:A:872:GLY:N	2.14	0.63
4:A:873:MET:HG2	4:A:957:PRO:CG	2.29	0.63
5:B:121:ASN:O	5:B:206:ASN:HA	1.99	0.63
5:B:593:PRO:HD2	5:B:594:ALA:N	2.07	0.63
5:B:737:THR:HG21	10:I:66:PRO:O	1.99	0.63
5:B:769:TYR:C	5:B:771:SER:N	2.56	0.63
5:B:877:PRO:C	5:B:878:GLN:HG3	2.17	0.63
7:E:135:PHE:CB	7:E:140:LEU:CD1	2.77	0.63
9:H:41:ASP:HB2	9:H:122:LEU:N	2.14	0.63
10:I:34:TYR:CD2	10:I:35:VAL:N	2.67	0.63
2:T:6:DG:H2"	2:T:7:DA:OP2	1.97	0.62
2:T:25:DC:H2'	2:T:26:DG:C8	2.34	0.62
3:N:3:DG:H2"	3:N:4:DC:OP2	1.98	0.62
4:A:50:ILE:O	4:A:51:GLY:C	2.42	0.62
4:A:239:LEU:CD1	4:A:240:PRO:HD2	2.29	0.62
4:A:588:LEU:N	4:A:607:ILE:O	2.19	0.62
4:A:1017:LEU:HB2	7:E:205:SER:CA	2.29	0.62
4:A:1053:PHE:CD2	4:A:1054:LEU:N	2.67	0.62
5:B:1104:HIS:HB2	5:B:1122:ARG:CD	2.25	0.62
9:H:30:SER:HB2	9:H:36:CYS:O	1.99	0.62
10:I:25:LEU:CD1	10:I:26:LEU:H	2.08	0.62
13:L:28:LYS:HB2	13:L:39:SER:HA	1.81	0.62
3:N:12:DT:H2"	3:N:13:DA:OP2	1.98	0.62
4:A:50:ILE:C	4:A:52:GLY:N	2.57	0.62
4:A:344:ARG:C	4:A:345:VAL:HG13	2.23	0.62
4:A:346:ASP:HB2	5:B:1154:ALA:CB	2.29	0.62
5:B:229:ALA:HB1	5:B:231:PRO:CD	2.29	0.62
5:B:316:PRO:HG2	5:B:317:CYS:N	2.09	0.62
5:B:477:ALA:HB2	5:B:479:VAL:HG22	1.74	0.62
6:C:96:SER:O	6:C:97:VAL:CG2	2.43	0.62
13:L:29:TYR:C	13:L:30:ILE:HG13	2.24	0.62
4:A:852:TYR:CD2	4:A:1060:PRO:CB	2.82	0.62
5:B:121:ASN:N	5:B:121:ASN:HD22	1.97	0.62
5:B:773:MET:O	5:B:776:GLN:N	2.32	0.62
6:C:180:TYR:O	6:C:181:ASP:HB3	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:24:PRO:HB2	4:A:237:THR:CG2	2.26	0.62
4:A:152:VAL:CA	4:A:152:VAL:CG2	2.73	0.62
4:A:549:MET:O	4:A:550:LEU:C	2.38	0.62
4:A:927:VAL:CG1	4:A:927:VAL:HG21	2.27	0.62
4:A:1293:SER:OG	4:A:1294:PRO:HG2	1.98	0.62
4:A:1436:ILE:HD13	5:B:1139:ILE:HG23	1.82	0.62
4:A:1441:PHE:CE1	8:F:89:GLU:HA	2.34	0.62
5:B:282:ILE:CD1	5:B:283:VAL:HG13	2.30	0.62
5:B:355:ILE:HG22	5:B:356:LEU:HD21	1.80	0.62
5:B:519:TRP:C	5:B:519:TRP:CD1	2.77	0.62
5:B:660:LYS:O	5:B:663:ALA:HB3	1.97	0.62
5:B:698:GLU:O	5:B:699:GLU:C	2.33	0.62
5:B:787:VAL:O	5:B:787:VAL:HG12	1.99	0.62
5:B:1077:THR:HG22	5:B:1078:GLY:N	2.14	0.62
5:B:1152:MET:HE1	5:B:1195:HIS:C	2.23	0.62
5:B:1210:MET:CB	5:B:1210:MET:HE2	2.20	0.62
6:C:46:ILE:CD1	6:C:72:LEU:HD11	2.29	0.62
7:E:113:GLN:HB3	7:E:137:GLU:CG	2.28	0.62
7:E:113:GLN:CB	7:E:137:GLU:HG3	2.28	0.62
8:F:101:ILE:CG2	8:F:101:ILE:CA	2.71	0.62
8:F:122:MET:CE	8:F:122:MET:CB	2.78	0.62
9:H:42:ILE:HG23	9:H:95:TYR:CE1	2.34	0.62
10:I:31:THR:HG22	10:I:32:CYS:CB	2.30	0.62
2:T:9:DA:H2"	2:T:10:DA:OP2	1.98	0.62
4:A:148:CYS:O	4:A:149:GLU:O	2.16	0.62
4:A:337:ARG:HD3	5:B:1132:GLU:OE1	1.98	0.62
4:A:495:GLU:C	4:A:498:ARG:HG3	2.25	0.62
4:A:495:GLU:HA	4:A:498:ARG:HG3	1.82	0.62
4:A:542:GLU:O	4:A:546:VAL:HG23	1.99	0.62
4:A:761:MET:CE	4:A:761:MET:CG	2.76	0.62
4:A:1101:LEU:HG	4:A:1105:LEU:CD1	2.29	0.62
5:B:502:ILE:CA	5:B:502:ILE:CG2	2.74	0.62
5:B:795:ILE:HG22	5:B:796:LEU:H	1.62	0.62
5:B:1006:ILE:CG2	5:B:1007:VAL:N	2.58	0.62
16:B:1308:ATP:O1B	16:B:1308:ATP:C4'	2.47	0.62
7:E:121:MET:C	7:E:123:LEU:H	2.08	0.62
7:E:157:SER:C	7:E:159:ASP:H	2.07	0.62
4:A:41:MET:HG2	4:A:48:ALA:O	2.00	0.62
4:A:265:LYS:NZ	4:A:323:LYS:HG2	2.14	0.62
4:A:445:ASN:CB	4:A:455:MET:HE2	2.29	0.62
4:A:562:THR:HG22	4:A:563:PRO:CD	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:791:ASP:C	4:A:791:ASP:OD1	2.41	0.62
4:A:1049:ILE:O	4:A:1050:GLU:C	2.42	0.62
5:B:286:PHE:HB3	5:B:297:ILE:CD1	2.29	0.62
5:B:954:VAL:O	13:L:55:ILE:O	2.18	0.62
5:B:1014:PRO:C	5:B:1016:ALA:N	2.56	0.62
6:C:135:GLN:C	6:C:136:ASP:C	2.68	0.62
6:C:241:ASP:CG	6:C:242:GLN:N	2.57	0.62
3:N:12:DT:OP1	7:E:117:THR:OG1	2.18	0.62
4:A:90:VAL:CG1	4:A:297:GLN:CD	2.61	0.62
4:A:714:PHE:CB	10:I:97:MET:HE1	2.30	0.62
4:A:897:TYR:N	4:A:897:TYR:HD1	1.97	0.62
4:A:995:GLU:O	4:A:998:LEU:HD23	2.00	0.62
5:B:472:ALA:N	5:B:472:ALA:C	2.55	0.62
5:B:473:MET:O	5:B:475:SER:HB3	1.99	0.62
5:B:896:ASP:OD2	13:L:58:LYS:HE3	1.99	0.62
5:B:1051:THR:HG22	5:B:1052:VAL:C	2.21	0.62
5:B:1077:THR:CG2	5:B:1078:GLY:N	2.60	0.62
5:B:1182:CYS:O	5:B:1182:CYS:SG	2.56	0.62
9:H:60:ALA:HB1	9:H:62:SER:OG	2.00	0.62
9:H:104:PHE:CD2	9:H:114:VAL:HG12	2.35	0.62
9:H:131:ASN:C	9:H:133:ASN:H	2.07	0.62
10:I:99:LEU:N	10:I:112:SER:OG	2.32	0.62
2:T:1:DC:H2"	2:T:2:DT:OP2	1.97	0.62
2:T:23:DC:P	5:B:1123:SER:OG	2.57	0.62
4:A:253:ASN:HD22	4:A:256:GLN:C	2.06	0.62
5:B:466:TRP:N	5:B:475:SER:OG	2.32	0.62
5:B:521:LEU:C	5:B:540:SER:OG	2.42	0.62
5:B:882:THR:CA	5:B:882:THR:HB	2.14	0.62
7:E:142:VAL:CG1	7:E:143:ASN:N	2.62	0.62
11:J:60:PHE:CD2	11:J:60:PHE:N	2.66	0.62
2:T:25:DC:H2"	2:T:26:DG:C5'	2.29	0.62
4:A:401:GLY:N	4:A:435:HIS:CD2	2.68	0.62
4:A:723:ASN:O	4:A:724:GLU:C	2.41	0.62
4:A:967:ALA:O	4:A:969:GLN:N	2.33	0.62
4:A:1077:THR:C	4:A:1078:GLN:CG	2.72	0.62
4:A:1116:LEU:CD2	4:A:1310:GLY:O	2.47	0.62
4:A:1150:SER:OG	4:A:1150:SER:O	2.16	0.62
5:B:1202:LEU:HD13	5:B:1206:GLU:CD	2.20	0.62
7:E:136:ASN:OD1	7:E:137:GLU:N	2.31	0.62
7:E:153:HIS:O	7:E:154:ILE:CG1	2.42	0.62
7:E:158:SER:CB	7:E:158:SER:N	2.61	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:H:60:ALA:C	9:H:61:SER:OG	2.41	0.62
9:H:113:ALA:HA	9:H:125:LEU:O	2.00	0.62
13:L:53:HIS:O	13:L:55:ILE:N	2.33	0.62
4:A:20:GLY:HA2	4:A:1413:GLY:O	1.99	0.62
4:A:266:LEU:HD23	4:A:303:TYR:CD1	2.34	0.62
4:A:379:VAL:CG1	4:A:380:VAL:N	2.63	0.62
4:A:406:ILE:HD13	4:A:431:LYS:CB	2.30	0.62
4:A:423:ASP:O	4:A:424:ILE:CB	2.42	0.62
4:A:451:HIS:CE1	4:A:1074:GLU:HG3	2.35	0.62
4:A:456:MET:CG	4:A:456:MET:CE	2.77	0.62
4:A:509:LEU:N	4:A:509:LEU:HD23	2.14	0.62
4:A:660:ASN:ND2	5:B:1082:MET:HB3	2.15	0.62
4:A:984:LYS:O	4:A:988:LEU:HB2	2.00	0.62
4:A:1289:ARG:H	4:A:1300:LYS:HZ3	1.47	0.62
4:A:1399:ARG:O	4:A:1400:CYS:C	2.40	0.62
5:B:123:THR:O	5:B:123:THR:HG22	1.98	0.62
5:B:357:GLN:HA	5:B:374:LYS:NZ	2.15	0.62
5:B:383:ASN:HD22	5:B:384:ARG:HH11	1.48	0.62
5:B:421:PHE:O	5:B:425:THR:HB	2.00	0.62
5:B:552:MET:CE	5:B:552:MET:SD	2.87	0.62
5:B:745:PRO:HD2	5:B:746:SER:N	2.15	0.62
5:B:952:VAL:HB	13:L:58:LYS:HB2	1.81	0.62
7:E:28:TYR:CE1	7:E:78:LEU:HD13	2.32	0.62
7:E:79:TRP:HA	7:E:79:TRP:HE3	1.65	0.62
2:T:8:DT:H2"	2:T:9:DA:OP2	1.98	0.61
4:A:23:SER:O	4:A:24:PRO:C	2.37	0.61
4:A:239:LEU:HD12	4:A:239:LEU:C	2.25	0.61
4:A:321:PRO:CD	4:A:322:VAL:HG13	2.17	0.61
4:A:352:VAL:CG1	4:A:353:ILE:H	2.13	0.61
4:A:445:ASN:ND2	4:A:446:ARG:C	2.58	0.61
4:A:740:LEU:H	4:A:740:LEU:HD23	1.65	0.61
4:A:794:PRO:HG2	4:A:795:GLU:H	1.65	0.61
4:A:853:ASP:C	4:A:855:THR:H	2.08	0.61
4:A:913:LEU:HD12	4:A:915:SER:N	2.14	0.61
4:A:963:ILE:O	4:A:963:ILE:HG22	1.97	0.61
4:A:1127:ASP:HB2	4:A:1130:GLN:CB	2.18	0.61
4:A:1237:ILE:C	4:A:1238:ILE:HG12	2.25	0.61
4:A:1319:VAL:O	4:A:1322:ILE:CD1	2.48	0.61
4:A:1393:ASN:O	4:A:1394:THR:C	2.43	0.61
5:B:377:PHE:C	5:B:379:GLY:N	2.56	0.61
5:B:881:ASN:C	5:B:881:ASN:HA	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F:83:PRO:CD	8:F:84:TYR:N	2.63	0.61
8:F:122:MET:HB3	8:F:122:MET:HE3	1.82	0.61
10:I:78:CYS:SG	10:I:106:CYS:N	2.73	0.61
12:K:71:PHE:CD1	12:K:71:PHE:C	2.77	0.61
13:L:47:ARG:HG3	13:L:52:GLY:O	1.99	0.61
2:T:11:DG:H2"	2:T:12:DC:OP2	1.98	0.61
2:T:18:DA:H2'	2:T:19:DT:C6	2.35	0.61
4:A:32:VAL:CG2	4:A:81:PHE:O	2.48	0.61
4:A:820:GLY:O	4:A:821:ARG:CA	2.48	0.61
4:A:901:LEU:CB	4:A:926:GLN:HG2	2.29	0.61
5:B:575:PRO:HD2	5:B:576:ASP:OD2	1.99	0.61
5:B:856:PHE:H	5:B:856:PHE:HD1	1.48	0.61
5:B:878:GLN:O	5:B:879:ARG:HG2	1.99	0.61
5:B:1084:GLN:N	5:B:1084:GLN:CD	2.56	0.61
5:B:1084:GLN:C	5:B:1085:ILE:HG13	2.25	0.61
6:C:93:ASP:OD1	6:C:122:SER:HB2	2.00	0.61
6:C:115:SER:OG	6:C:134:ILE:HD11	2.00	0.61
7:E:161:LYS:O	7:E:162:ARG:C	2.41	0.61
11:J:14:VAL:C	11:J:16:ASP:H	2.07	0.61
11:J:55:ASP:CB	11:J:55:ASP:N	2.62	0.61
12:K:100:ALA:O	12:K:103:THR:HB	2.00	0.61
4:A:209:ASN:C	4:A:210:ILE:HG12	2.24	0.61
4:A:264:PHE:HE1	4:A:317:LYS:CA	2.13	0.61
4:A:491:VAL:CG1	4:A:492:PRO:CD	2.73	0.61
5:B:357:GLN:HA	5:B:374:LYS:HZ1	1.64	0.61
5:B:640:VAL:O	5:B:650:GLU:O	2.19	0.61
5:B:883:LEU:CG	5:B:883:LEU:HB3	2.15	0.61
6:C:128:ASN:O	6:C:129:ILE:CB	2.38	0.61
7:E:9:ILE:CD1	7:E:53:PRO:HD3	2.30	0.61
10:I:107:SER:CA	10:I:108:HIS:N	2.61	0.61
11:J:3:VAL:HG23	11:J:3:VAL:H	1.64	0.61
11:J:21:TYR:CE1	11:J:25:LEU:HD21	2.35	0.61
4:A:41:MET:HE2	4:A:61:ILE:CD1	2.31	0.61
4:A:590:ARG:HH21	4:A:620:LYS:C	2.07	0.61
4:A:601:LYS:HB3	4:A:603:ASN:CG	2.24	0.61
4:A:1118:VAL:O	4:A:1118:VAL:HG23	1.98	0.61
4:A:1364:ASN:ND2	4:A:1366:ARG:HH11	1.99	0.61
4:A:1444:MET:O	8:F:133:VAL:N	2.28	0.61
5:B:54:PHE:CG	5:B:55:VAL:N	2.67	0.61
5:B:419:THR:CG2	5:B:419:THR:CA	2.74	0.61
5:B:751:VAL:HG12	5:B:752:ALA:H	1.62	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:1013:ASN:OD1	5:B:1014:PRO:HD2	2.00	0.61
5:B:1060:ARG:O	5:B:1061:GLU:C	2.42	0.61
6:C:22:LEU:CD2	6:C:22:LEU:C	2.73	0.61
6:C:190:ASP:C	6:C:190:ASP:OD1	2.41	0.61
7:E:52:ARG:HB3	7:E:53:PRO:HD2	1.83	0.61
7:E:61:GLN:HG2	7:E:62:ALA:HA	1.81	0.61
7:E:81:GLU:HB3	7:E:96:PHE:HE1	1.65	0.61
10:I:17:ARG:O	10:I:26:LEU:CB	2.48	0.61
10:I:28:GLU:OE2	10:I:28:GLU:O	2.18	0.61
12:K:41:THR:HG22	12:K:41:THR:O	2.00	0.61
2:T:10:DA:H2"	2:T:11:DG:OP2	1.98	0.61
4:A:67:CYS:O	4:A:70:CYS:HB2	1.98	0.61
4:A:402:ALA:HB1	4:A:433:GLU:O	2.00	0.61
4:A:403:LYS:CD	4:A:403:LYS:HE3	2.16	0.61
4:A:1172:LEU:HD23	4:A:1172:LEU:N	2.15	0.61
4:A:1256:GLU:CB	4:A:1256:GLU:C	2.71	0.61
5:B:237:VAL:HG12	5:B:238:ALA:N	2.15	0.61
5:B:510:LYS:N	5:B:510:LYS:CB	2.63	0.61
5:B:780:VAL:HG21	11:J:56:LEU:CD1	2.30	0.61
5:B:801:LYS:H	11:J:52:THR:CG2	2.13	0.61
5:B:1200:ALA:O	5:B:1203:LEU:HB3	2.00	0.61
7:E:157:SER:OG	7:E:160:GLU:N	2.28	0.61
8:F:143:PHE:CD1	8:F:143:PHE:C	2.78	0.61
9:H:47:PHE:CD2	9:H:95:TYR:CB	2.83	0.61
13:L:32:ALA:HB3	13:L:55:ILE:CD1	2.30	0.61
4:A:7:SER:OG	4:A:8:SER:N	2.32	0.61
4:A:445:ASN:HD22	4:A:446:ARG:N	1.98	0.61
4:A:537:ARG:HG3	9:H:20:TYR:OH	2.00	0.61
4:A:947:PHE:HE2	4:A:954:TRP:CD2	2.18	0.61
4:A:1438:THR:CG2	4:A:1438:THR:C	2.73	0.61
5:B:834:ASN:O	5:B:1013:ASN:HB2	2.00	0.61
16:B:1308:ATP:O1B	16:B:1308:ATP:C5'	2.48	0.61
7:E:197:LYS:C	7:E:198:ILE:HG13	2.25	0.61
8:F:101:ILE:HD13	8:F:120:ILE:CG2	2.24	0.61
8:F:135:ARG:CZ	8:F:143:PHE:CE1	2.84	0.61
9:H:52:GLN:CB	9:H:52:GLN:HA	2.15	0.61
11:J:52:THR:C	11:J:52:THR:CB	2.69	0.61
12:K:65:HIS:CD2	12:K:65:HIS:C	2.76	0.61
4:A:101:LYS:HA	4:A:139:TRP:HE1	1.64	0.61
4:A:562:THR:HG23	4:A:563:PRO:HD3	1.82	0.61
4:A:588:LEU:CD1	4:A:588:LEU:HG	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:793:SER:HB2	4:A:794:PRO:CD	2.26	0.61
4:A:1445:ILE:H	4:A:1445:ILE:HD12	1.66	0.61
5:B:552:MET:CE	5:B:552:MET:HB2	2.31	0.61
5:B:600:LEU:N	5:B:600:LEU:HD23	1.81	0.61
5:B:1170:THR:CG2	5:B:1183:LYS:HZ1	2.13	0.61
9:H:127:GLY:N	9:H:130:ARG:NH1	2.48	0.61
13:L:61:THR:CG2	13:L:62:LYS:N	2.64	0.61
4:A:90:VAL:HG12	4:A:297:GLN:HE21	0.78	0.61
4:A:321:PRO:C	4:A:321:PRO:CB	2.70	0.61
4:A:379:VAL:O	4:A:384:ASN:ND2	2.32	0.61
4:A:565:ILE:HG23	4:A:567:LYS:CE	2.28	0.61
4:A:569:LYS:CD	6:C:221:TYR:O	2.48	0.61
4:A:741:ASN:ND2	4:A:743:VAL:HB	2.15	0.61
4:A:836:TYR:CE1	4:A:1403:GLU:OE2	2.53	0.61
4:A:901:LEU:CB	4:A:926:GLN:CG	2.78	0.61
4:A:933:TYR:O	4:A:933:TYR:CG	2.50	0.61
4:A:960:ILE:C	4:A:962:ARG:N	2.56	0.61
4:A:1209:MET:N	4:A:1231:ASP:OD2	2.32	0.61
7:E:35:VAL:CA	7:E:35:VAL:CG1	2.73	0.61
2:T:12:DC:H2"	2:T:13:DA:P	2.39	0.61
4:A:13:THR:HB	4:A:15:LYS:HZ2	1.65	0.61
4:A:50:ILE:HG22	4:A:51:GLY:N	2.15	0.61
4:A:779:PHE:CE1	4:A:784:LEU:HA	2.36	0.61
4:A:898:ARG:HA	4:A:933:TYR:CD1	2.36	0.61
4:A:1004:ASN:O	4:A:1008:GLN:HB2	2.00	0.61
4:A:1009:ASN:O	4:A:1013:ASP:CG	2.43	0.61
4:A:1113:THR:C	4:A:1114:PRO:O	2.44	0.61
4:A:1148:ILE:HG22	4:A:1149:ALA:HB2	1.83	0.61
5:B:120:ARG:CD	5:B:955:THR:HG21	2.31	0.61
5:B:724:ASP:OD1	5:B:724:ASP:O	2.18	0.61
7:E:202:SER:C	7:E:204:THR:H	2.09	0.61
9:H:141:TYR:N	9:H:141:TYR:HD1	1.98	0.61
13:L:46:VAL:O	13:L:47:ARG:CB	2.48	0.61
4:A:808:LEU:HD21	4:A:816:HIS:CD2	2.33	0.61
4:A:913:LEU:HD22	4:A:1032:LEU:HD22	1.80	0.61
5:B:168:GLY:HA2	5:B:454:THR:HG1	1.65	0.61
5:B:199:MET:HE2	5:B:492:LEU:HD21	1.82	0.61
5:B:229:ALA:HB1	5:B:231:PRO:HD3	1.82	0.61
5:B:384:ARG:HH22	5:B:621:GLU:CG	2.09	0.61
5:B:431:TYR:CG	5:B:447:ALA:HB1	2.35	0.61
5:B:646:LEU:CD2	5:B:646:LEU:HD11	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:882:THR:CB	5:B:883:LEU:N	2.63	0.61
9:H:116:TYR:HD1	9:H:123:MET:SD	2.23	0.61
10:I:29:CYS:CB	10:I:29:CYS:C	2.72	0.61
11:J:2:ILE:HA	11:J:53:HIS:CE1	2.36	0.61
12:K:1:MET:O	12:K:1:MET:HG2	1.91	0.61
4:A:526:ASP:C	4:A:528:LEU:N	2.52	0.60
4:A:751:SER:HB2	5:B:1015:HIS:HE1	1.66	0.60
4:A:928:LEU:O	4:A:929:LEU:C	2.43	0.60
4:A:1121:GLU:CB	4:A:1121:GLU:HA	2.16	0.60
5:B:619:ILE:HG13	10:I:65:ASP:HB2	1.83	0.60
5:B:701:ILE:CB	5:B:740:HIS:HE1	2.12	0.60
5:B:976:ILE:O	5:B:990:ILE:CG2	2.48	0.60
5:B:1076:HIS:O	6:C:31:ASN:ND2	2.33	0.60
5:B:1160:VAL:HG12	5:B:1161:HIS:N	2.14	0.60
7:E:124:VAL:HG12	7:E:125:PRO:N	2.15	0.60
12:K:49:GLU:O	12:K:50:LEU:C	2.37	0.60
12:K:83:PRO:O	12:K:86:ALA:N	2.34	0.60
4:A:24:PRO:HB3	4:A:237:THR:CB	2.31	0.60
4:A:321:PRO:CA	4:A:322:VAL:CG1	2.64	0.60
4:A:364:VAL:CG1	4:A:458:HIS:HB2	2.31	0.60
4:A:449:SER:OG	5:B:1134:GLU:OE2	2.08	0.60
4:A:546:VAL:O	4:A:550:LEU:CD2	2.49	0.60
4:A:681:GLU:O	4:A:684:ALA:N	2.34	0.60
4:A:1022:LEU:HD12	4:A:1022:LEU:O	2.01	0.60
4:A:1434:ALA:O	4:A:1436:ILE:N	2.33	0.60
5:B:304:ASP:OD1	5:B:305:VAL:N	2.34	0.60
5:B:662:MET:O	5:B:665:GLU:N	2.30	0.60
5:B:805:THR:N	5:B:1042:GLY:O	2.31	0.60
5:B:812:LEU:CD1	5:B:812:LEU:HG	2.17	0.60
5:B:827:ILE:HG12	5:B:1012:ILE:HD11	1.83	0.60
5:B:983:ARG:C	5:B:984:HIS:ND1	2.58	0.60
7:E:21:GLU:O	7:E:22:MET:C	2.40	0.60
4:A:9:ALA:HB3	5:B:1193:GLN:HB2	1.83	0.60
4:A:88:LYS:C	4:A:88:LYS:CB	2.72	0.60
4:A:323:LYS:CA	4:A:324:SER:HB3	2.25	0.60
4:A:522:GLY:C	4:A:523:ILE:CD1	2.74	0.60
4:A:622:VAL:CA	4:A:630:ILE:HD11	2.30	0.60
4:A:933:TYR:O	4:A:933:TYR:HD2	1.81	0.60
4:A:1045:VAL:O	4:A:1049:ILE:HG13	2.01	0.60
4:A:1067:LEU:CD2	4:A:1367:HIS:HE1	2.04	0.60
5:B:224:GLN:O	5:B:238:ALA:HA	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:817:LEU:N	5:B:818:PRO:HD3	2.16	0.60
5:B:843:GLN:HA	5:B:846:ILE:CD1	2.31	0.60
5:B:1033:LYS:HE3	5:B:1087:PHE:O	2.01	0.60
6:C:77:ILE:HD13	6:C:129:ILE:HD11	1.82	0.60
7:E:142:VAL:HG13	7:E:143:ASN:N	2.16	0.60
11:J:31:ASP:O	11:J:33:GLY:N	2.34	0.60
12:K:23:PRO:CG	12:K:23:PRO:O	2.49	0.60
12:K:102:LYS:O	12:K:106:GLU:HG3	2.01	0.60
4:A:91:PHE:O	4:A:236:LEU:HD12	2.01	0.60
4:A:112:LYS:O	4:A:114:LEU:HD23	2.01	0.60
4:A:362:ASP:O	4:A:459:ARG:HB2	2.02	0.60
4:A:660:ASN:C	4:A:660:ASN:HD22	2.09	0.60
4:A:778:GLY:HA3	5:B:516:ASN:HB2	1.84	0.60
4:A:1134:ILE:CG2	4:A:1138:ILE:HD11	2.31	0.60
4:A:1350:LYS:CG	4:A:1350:LYS:CA	2.72	0.60
5:B:124:TYR:CB	5:B:204:ILE:HD13	2.31	0.60
5:B:278:GLN:HG2	5:B:279:ASP:N	2.16	0.60
5:B:451:LYS:O	5:B:454:THR:N	2.34	0.60
6:C:258:ILE:HD11	12:K:42:LEU:HD21	1.83	0.60
7:E:54:GLN:O	7:E:57:MET:CB	2.48	0.60
7:E:157:SER:OG	7:E:160:GLU:CB	2.49	0.60
8:F:127:GLU:O	8:F:129:LYS:N	2.34	0.60
12:K:73:LEU:HD21	12:K:75:ILE:HD11	1.82	0.60
12:K:78:THR:O	12:K:79:GLU:C	2.41	0.60
4:A:650:GLN:O	4:A:651:LYS:C	2.41	0.60
4:A:1074:GLU:O	4:A:1077:THR:N	2.31	0.60
4:A:1139:GLU:O	4:A:1139:GLU:CG	2.47	0.60
5:B:62:ILE:HD12	5:B:418:LYS:HG2	1.83	0.60
5:B:174:LEU:CD1	5:B:179:CYS:SG	2.90	0.60
5:B:461:LEU:N	5:B:461:LEU:CD1	2.53	0.60
5:B:610:ASN:O	5:B:613:VAL:HG23	2.01	0.60
5:B:652:LYS:O	5:B:653:VAL:O	2.18	0.60
5:B:855:PHE:CG	5:B:855:PHE:O	2.50	0.60
6:C:70:ILE:O	6:C:70:ILE:CG2	2.46	0.60
6:C:133:ILE:HD11	6:C:237:SER:HA	1.82	0.60
7:E:98:ILE:CB	7:E:98:ILE:C	2.72	0.60
7:E:127:ILE:CD1	7:E:132:ILE:HD12	2.31	0.60
9:H:59:ILE:HD13	9:H:142:LEU:HB2	1.84	0.60
12:K:44:ASN:N	12:K:61:TYR:CE2	2.69	0.60
4:A:209:ASN:O	4:A:210:ILE:C	2.42	0.60
4:A:780:VAL:O	4:A:782:ARG:HG2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1016:THR:O	4:A:1017:LEU:C	2.42	0.60
4:A:1396:ALA:O	4:A:1400:CYS:N	2.33	0.60
4:A:1398:MET:CE	4:A:1398:MET:SD	2.90	0.60
5:B:842:ASN:HB3	5:B:845:SER:OG	2.02	0.60
5:B:1170:THR:HG23	5:B:1183:LYS:NZ	2.16	0.60
5:B:1202:LEU:HD12	5:B:1206:GLU:OE2	1.99	0.60
6:C:16:ASP:HA	6:C:240:VAL:HG22	1.82	0.60
6:C:54:ASN:OD1	6:C:56:THR:OG1	2.13	0.60
8:F:120:ILE:O	8:F:122:MET:N	2.34	0.60
10:I:41:PRO:HD2	10:I:42:LEU:N	2.12	0.60
4:A:49:LYS:NZ	4:A:60:SER:CA	2.65	0.60
4:A:92:HIS:CB	4:A:236:LEU:HD11	2.28	0.60
4:A:100:LYS:HB3	4:A:100:LYS:NZ	2.16	0.60
4:A:112:LYS:O	4:A:114:LEU:HD21	2.01	0.60
4:A:265:LYS:HE2	4:A:323:LYS:CD	2.32	0.60
4:A:320:ARG:C	4:A:321:PRO:CD	2.72	0.60
4:A:634:THR:HG1	4:A:642:CYS:HG	1.50	0.60
4:A:720:ARG:CB	4:A:720:ARG:HE	2.14	0.60
4:A:1046:LEU:O	4:A:1047:SER:C	2.43	0.60
5:B:123:THR:O	5:B:125:SER:N	2.35	0.60
5:B:300:HIS:HE1	5:B:376:PHE:CE1	2.18	0.60
5:B:522:VAL:CG1	5:B:523:CYS:N	2.53	0.60
5:B:562:GLY:O	5:B:563:MET:C	2.44	0.60
5:B:566:LEU:HD11	5:B:586:TRP:CD2	2.36	0.60
5:B:570:VAL:CG2	5:B:570:VAL:N	2.64	0.60
5:B:840:ILE:O	5:B:1010:LEU:HD12	2.01	0.60
5:B:1102:LYS:O	5:B:1104:HIS:N	2.33	0.60
6:C:148:ARG:NH1	11:J:64:ASN:HA	2.16	0.60
7:E:164:LEU:HD13	7:E:211:TYR:HE2	1.57	0.60
8:F:89:GLU:O	8:F:93:ILE:HD13	2.02	0.60
9:H:58:THR:HG22	9:H:59:ILE:C	2.26	0.60
11:J:1:MET:H1	11:J:56:LEU:HB2	1.65	0.60
11:J:3:VAL:CG2	11:J:3:VAL:H	2.15	0.60
4:A:302:THR:OG1	4:A:313:GLN:NE2	2.34	0.60
4:A:407:ARG:HD3	4:A:413:ILE:CD1	2.32	0.60
4:A:1058:VAL:HG12	4:A:1059:HIS:N	2.16	0.60
4:A:1101:LEU:H	4:A:1355:VAL:CG2	2.14	0.60
4:A:1134:ILE:O	4:A:1135:ARG:C	2.45	0.60
4:A:1197:LEU:HB2	4:A:1236:LEU:HB3	1.83	0.60
4:A:1229:SER:CB	4:A:1233:ASP:OD2	2.49	0.60
5:B:36:ALA:C	5:B:37:PHE:O	2.38	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:402:GLY:CA	5:B:695:ALA:HB1	2.31	0.60
5:B:422:LYS:CG	5:B:422:LYS:HA	2.31	0.60
5:B:794:ASN:HD22	5:B:794:ASN:N	2.00	0.60
5:B:803:LEU:O	5:B:1042:GLY:HA3	2.01	0.60
5:B:859:TYR:CZ	5:B:941:LEU:HD22	2.36	0.60
5:B:1014:PRO:C	5:B:1016:ALA:H	2.09	0.60
6:C:158:VAL:O	6:C:158:VAL:CG1	2.31	0.60
7:E:65:THR:OG1	7:E:68:SER:N	2.35	0.60
7:E:108:GLY:N	7:E:131:THR:O	2.34	0.60
7:E:171:LYS:HB2	7:E:174:GLN:CG	2.32	0.60
10:I:56:ALA:O	10:I:57:GLY:C	2.45	0.60
4:A:42:ASP:CB	4:A:42:ASP:HA	2.15	0.60
4:A:58:LEU:HD21	4:A:243:PRO:HB3	1.82	0.60
4:A:809:THR:HB	4:A:810:PRO:CD	2.32	0.60
5:B:22:SER:O	5:B:654:ARG:HD2	2.01	0.60
5:B:48:LEU:O	5:B:49:ASP:C	2.44	0.60
5:B:178:ASN:O	5:B:179:CYS:C	2.45	0.60
5:B:644:GLU:HG3	5:B:654:ARG:HH22	1.66	0.60
5:B:696:GLU:OE2	5:B:696:GLU:HA	2.02	0.60
6:C:67:LEU:O	6:C:68:GLY:C	2.43	0.60
10:I:56:ALA:O	10:I:58:VAL:HG23	2.02	0.60
4:A:91:PHE:C	4:A:297:GLN:HE22	2.10	0.60
4:A:511:ILE:HG12	4:A:521:MET:HE3	1.82	0.60
4:A:587:HIS:CE1	4:A:969:GLN:HG3	2.36	0.60
6:C:74:SER:HB3	6:C:77:ILE:HG13	1.84	0.60
6:C:184:ASN:ND2	6:C:189:THR:O	2.34	0.60
7:E:211:TYR:HD1	7:E:211:TYR:N	2.00	0.60
9:H:50:ALA:O	9:H:53:ASP:HB2	2.02	0.60
10:I:5:ARG:HD3	10:I:36:GLU:OE2	2.02	0.60
12:K:92:ASN:O	12:K:93:SER:C	2.45	0.60
4:A:215:SER:HB3	4:A:218:ASP:CG	2.27	0.59
4:A:492:PRO:HB2	4:A:497:THR:HG22	1.84	0.59
4:A:537:ARG:C	4:A:539:THR:H	2.09	0.59
4:A:765:VAL:CG2	4:A:800:VAL:CG1	2.80	0.59
4:A:818:MET:O	4:A:819:GLY:O	2.20	0.59
4:A:878:ILE:HG22	4:A:879:GLU:N	2.11	0.59
4:A:908:LEU:O	4:A:909:ASP:C	2.45	0.59
4:A:966:ASN:O	4:A:1044:TRP:CZ3	2.55	0.59
4:A:967:ALA:O	4:A:968:GLN:C	2.38	0.59
4:A:1076:ALA:O	4:A:1078:GLN:N	2.35	0.59
4:A:1219:THR:CG2	4:A:1271:ILE:HD11	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:705:MET:N	5:B:710:LEU:HD12	2.16	0.59
6:C:248:ILE:HG21	12:K:102:LYS:HB2	1.84	0.59
7:E:134:THR:O	7:E:134:THR:OG1	2.19	0.59
10:I:95:THR:HG22	10:I:96:SER:H	1.64	0.59
2:T:25:DC:H2'	2:T:26:DG:H8	1.66	0.59
4:A:628:GLY:O	4:A:629:LEU:C	2.41	0.59
4:A:816:HIS:ND1	4:A:816:HIS:O	2.35	0.59
4:A:962:ARG:O	4:A:963:ILE:C	2.41	0.59
4:A:1097:GLY:O	4:A:1099:PRO:CD	2.50	0.59
4:A:1334:ASP:O	4:A:1335:ILE:C	2.46	0.59
4:A:1430:LEU:O	5:B:1196:ILE:HG22	2.01	0.59
5:B:222:ILE:HG22	5:B:223:VAL:HB	1.84	0.59
5:B:496:ARG:O	5:B:539:LEU:HG	2.01	0.59
5:B:1142:GLY:HA3	8:F:88:TYR:HE2	1.66	0.59
6:C:46:ILE:HD11	6:C:72:LEU:HD11	1.84	0.59
7:E:71:LYS:HD3	7:E:160:GLU:OE2	2.01	0.59
7:E:102:GLU:C	7:E:104:ASN:N	2.58	0.59
8:F:133:VAL:O	8:F:133:VAL:CG1	2.51	0.59
9:H:141:TYR:N	9:H:141:TYR:CD1	2.71	0.59
4:A:4:GLN:NE2	5:B:1159:ARG:H	1.90	0.59
4:A:8:SER:OG	5:B:1180:PHE:CE1	2.56	0.59
4:A:262:LEU:O	4:A:266:LEU:CB	2.45	0.59
4:A:265:LYS:HZ3	4:A:322:VAL:CG2	2.13	0.59
4:A:418:SER:O	4:A:421:ALA:HB2	2.03	0.59
4:A:867:ILE:HG22	4:A:872:GLY:CA	2.32	0.59
4:A:1284:MET:CG	4:A:1306:LEU:HD21	2.29	0.59
4:A:1364:ASN:C	4:A:1364:ASN:HD22	2.09	0.59
5:B:1006:ILE:HD11	11:J:45:CYS:SG	2.42	0.59
5:B:1098:MET:CB	5:B:1098:MET:SD	2.90	0.59
5:B:1122:ARG:O	5:B:1125:ASP:N	2.32	0.59
5:B:1223:ASP:CB	5:B:1223:ASP:N	2.64	0.59
8:F:155:LEU:CA	8:F:155:LEU:O	2.47	0.59
10:I:19:ASP:CB	10:I:24:ARG:HG2	2.32	0.59
4:A:306:ASN:HD22	4:A:306:ASN:H	1.48	0.59
4:A:642:CYS:O	4:A:643:ALA:C	2.43	0.59
4:A:1017:LEU:HB2	7:E:205:SER:C	2.27	0.59
4:A:1284:MET:HA	4:A:1306:LEU:HD23	1.85	0.59
5:B:55:VAL:HG12	5:B:56:ASP:CA	2.32	0.59
5:B:546:SER:OG	5:B:632:ARG:N	2.33	0.59
5:B:636:PRO:CA	5:B:637:LEU:HB3	2.32	0.59
5:B:712:PRO:O	5:B:713:ALA:C	2.40	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:780:VAL:O	5:B:780:VAL:HG12	1.99	0.59
5:B:1191:ILE:HG23	5:B:1192:TYR:H	1.67	0.59
6:C:80:LEU:HD11	6:C:95:CYS:C	2.27	0.59
7:E:7:ARG:O	7:E:8:ASN:C	2.41	0.59
4:A:18:GLN:HG3	4:A:228:PHE:CE1	2.38	0.59
4:A:34:LYS:HZ1	4:A:57:ARG:NH2	1.99	0.59
4:A:523:ILE:HD13	4:A:622:VAL:O	2.02	0.59
4:A:616:VAL:CG1	4:A:617:VAL:N	2.64	0.59
4:A:863:VAL:HG11	4:A:866:PHE:CE2	2.37	0.59
4:A:892:ALA:HB2	4:A:895:LYS:HD3	1.85	0.59
4:A:967:ALA:HB2	4:A:1044:TRP:HZ3	1.67	0.59
4:A:1332:PHE:CE1	4:A:1348:LEU:HD13	2.37	0.59
5:B:97:VAL:HG12	5:B:98:THR:N	2.18	0.59
5:B:173:MET:HB2	5:B:203:PHE:CZ	2.37	0.59
5:B:211:VAL:CG1	5:B:212:LEU:H	2.10	0.59
5:B:447:ALA:CA	5:B:448:ILE:N	2.56	0.59
5:B:761:HIS:H	5:B:761:HIS:CD2	2.19	0.59
5:B:978:ASP:CG	5:B:1098:MET:HB3	2.28	0.59
5:B:1035:ALA:O	5:B:1039:GLY:N	2.33	0.59
9:H:25:ARG:HA	9:H:40:LEU:O	2.02	0.59
9:H:44:VAL:O	9:H:44:VAL:CG1	2.50	0.59
9:H:60:ALA:CB	9:H:60:ALA:C	2.73	0.59
11:J:14:VAL:C	11:J:16:ASP:N	2.59	0.59
11:J:31:ASP:C	11:J:33:GLY:N	2.61	0.59
12:K:57:LEU:CD1	12:K:76:GLN:HG3	2.28	0.59
4:A:182:VAL:O	4:A:182:VAL:CG1	2.49	0.59
4:A:241:VAL:HG13	4:A:266:LEU:HD12	1.83	0.59
4:A:276:LEU:HD21	4:A:292:ALA:O	2.03	0.59
4:A:337:ARG:CD	5:B:1132:GLU:OE1	2.50	0.59
4:A:379:VAL:CG1	4:A:380:VAL:HG23	2.26	0.59
4:A:535:THR:HG22	4:A:616:VAL:HG13	1.84	0.59
4:A:618:GLU:O	4:A:622:VAL:HG12	2.03	0.59
4:A:742:ASN:HA	4:A:745:GLN:HB2	1.85	0.59
4:A:746:MET:HB2	4:A:746:MET:HE3	1.85	0.59
4:A:925:LEU:O	4:A:927:VAL:CA	2.49	0.59
4:A:1167:GLU:O	4:A:1168:GLU:C	2.44	0.59
4:A:1405:THR:O	4:A:1405:THR:HG22	2.02	0.59
4:A:1445:ILE:N	4:A:1445:ILE:HG13	2.17	0.59
5:B:519:TRP:CH2	5:B:705:MET:HE1	2.38	0.59
5:B:603:LEU:O	5:B:609:ILE:N	2.35	0.59
5:B:806:THR:HG22	5:B:808:ALA:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:865:LYS:C	5:B:865:LYS:CB	2.75	0.59
5:B:1199:ALA:O	5:B:1200:ALA:C	2.44	0.59
6:C:62:PHE:O	6:C:63:ILE:C	2.45	0.59
9:H:15:VAL:CB	9:H:15:VAL:N	2.65	0.59
9:H:19:ARG:O	9:H:20:TYR:CB	2.50	0.59
9:H:116:TYR:CD1	9:H:123:MET:SD	2.95	0.59
10:I:33:SER:O	10:I:35:VAL:HG23	2.02	0.59
12:K:83:PRO:C	12:K:86:ALA:HB3	2.27	0.59
4:A:8:SER:O	4:A:9:ALA:O	2.21	0.59
4:A:233:TRP:C	4:A:235:ILE:N	2.61	0.59
4:A:506:ALA:C	4:A:508:PRO:CD	2.76	0.59
4:A:897:TYR:N	4:A:897:TYR:CD1	2.68	0.59
4:A:1099:PRO:CG	4:A:1100:ARG:H	2.14	0.59
4:A:1437:GLY:CA	8:F:88:TYR:CD2	2.80	0.59
5:B:166:PHE:CD2	5:B:167:ILE:N	2.70	0.59
6:C:44:LEU:O	6:C:45:ALA:HB2	2.03	0.59
6:C:142:VAL:HG12	6:C:144:ILE:N	2.17	0.59
8:F:135:ARG:NE	8:F:143:PHE:CE1	2.71	0.59
9:H:47:PHE:HD2	9:H:95:TYR:CG	2.21	0.59
9:H:93:TYR:CD1	9:H:143:LEU:HB3	2.36	0.59
10:I:16:PRO:CG	10:I:16:PRO:O	2.50	0.59
10:I:85:PHE:CD1	10:I:86:PHE:N	2.71	0.59
11:J:2:ILE:CA	11:J:53:HIS:CE1	2.85	0.59
13:L:60:ARG:HG3	13:L:61:THR:H	1.65	0.59
4:A:272:ALA:HB3	4:A:296:LEU:HD12	1.85	0.59
4:A:370:ILE:O	4:A:370:ILE:HG22	1.97	0.59
4:A:507:VAL:N	4:A:508:PRO:CD	2.65	0.59
4:A:520:CYS:C	4:A:521:MET:HG2	2.28	0.59
4:A:782:ARG:NH1	4:A:785:PRO:HA	2.18	0.59
4:A:1284:MET:CE	4:A:1284:MET:HB3	2.33	0.59
4:A:1362:TYR:CE1	4:A:1363:VAL:C	2.81	0.59
5:B:315:LYS:CB	5:B:315:LYS:C	2.74	0.59
5:B:461:LEU:O	5:B:480:SER:OG	2.19	0.59
5:B:1149:GLU:HA	5:B:1153:GLU:OE2	2.03	0.59
8:F:125:LEU:O	8:F:126:ALA:C	2.24	0.59
10:I:19:ASP:CB	10:I:24:ARG:CG	2.80	0.59
11:J:3:VAL:HG12	11:J:4:PRO:N	2.16	0.59
4:A:162:VAL:CG1	4:A:162:VAL:CG2	2.80	0.59
4:A:557:ASP:OD2	4:A:559:VAL:CG2	2.51	0.59
4:A:746:MET:CE	4:A:746:MET:HB2	2.33	0.59
4:A:964:ILE:CD1	4:A:1037:LEU:HD21	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1326:ARG:O	4:A:1327:ILE:O	2.21	0.59
6:C:247:GLY:C	6:C:249:ASP:N	2.58	0.59
7:E:171:LYS:HB2	7:E:174:GLN:CD	2.26	0.59
8:F:97:ARG:O	8:F:100:GLN:N	2.36	0.59
11:J:37:SER:O	11:J:38:ARG:C	2.42	0.59
4:A:124:GLN:O	4:A:125:ALA:C	2.46	0.59
4:A:295:LEU:O	4:A:296:LEU:C	2.42	0.59
4:A:302:THR:CG2	4:A:313:GLN:HE22	2.16	0.59
4:A:590:ARG:HB3	4:A:605:MET:H	1.67	0.59
4:A:688:LYS:CE	4:A:688:LYS:CG	2.77	0.59
4:A:857:ARG:HB3	4:A:862:ASN:O	2.02	0.59
4:A:1141:THR:CG2	4:A:1205:LYS:HD2	2.33	0.59
4:A:1172:LEU:C	4:A:1173:HIS:CA	2.71	0.59
4:A:1308:THR:CG2	4:A:1309:ASP:N	2.66	0.59
4:A:1353:TYR:O	4:A:1354:ASN:C	2.35	0.59
4:A:1434:ALA:CB	4:A:1436:ILE:HD12	2.33	0.59
5:B:115:GLN:HE21	5:B:119:LEU:HD11	1.68	0.59
5:B:432:MET:CE	5:B:432:MET:CB	2.81	0.59
5:B:639:ILE:HA	5:B:740:HIS:HB3	1.84	0.59
5:B:878:GLN:O	5:B:879:ARG:HB2	2.03	0.59
6:C:36:VAL:CG2	12:K:41:THR:HG21	2.33	0.59
6:C:67:LEU:C	6:C:69:LEU:N	2.49	0.59
7:E:65:THR:HG1	7:E:67:GLU:HB3	1.68	0.59
7:E:79:TRP:CB	7:E:107:THR:O	2.51	0.59
9:H:15:VAL:HA	9:H:26:ILE:HD11	1.85	0.59
12:K:56:VAL:HA	12:K:77:THR:HG22	1.84	0.59
4:A:320:ARG:HH21	5:B:471:LYS:HA	1.64	0.58
4:A:898:ARG:O	4:A:899:VAL:CG2	2.51	0.58
4:A:908:LEU:HD11	4:A:983:ILE:CD1	2.21	0.58
4:A:943:LEU:O	4:A:946:VAL:N	2.36	0.58
5:B:384:ARG:NH2	5:B:621:GLU:CG	2.65	0.58
5:B:745:PRO:CD	5:B:746:SER:H	2.16	0.58
5:B:803:LEU:H	5:B:822:ASN:HD21	1.50	0.58
5:B:948:ILE:O	5:B:949:VAL:C	2.42	0.58
6:C:206:ASN:CG	6:C:229:TYR:CD2	2.81	0.58
6:C:244:VAL:CG2	6:C:245:VAL:N	2.63	0.58
7:E:69:ILE:C	7:E:73:PRO:HD3	2.27	0.58
7:E:161:LYS:HD2	7:E:195:VAL:CG2	2.33	0.58
8:F:144:GLU:O	8:F:146:TRP:CD1	2.55	0.58
10:I:15:TYR:N	10:I:15:TYR:CD1	2.71	0.58
10:I:83:ASN:O	10:I:84:VAL:HB	1.94	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:24:PRO:CD	4:A:25:GLU:H	2.15	0.58
4:A:269:ILE:C	4:A:271:LYS:H	2.11	0.58
4:A:642:CYS:O	4:A:645:LEU:HB3	2.03	0.58
4:A:735:VAL:O	4:A:735:VAL:HG12	2.01	0.58
4:A:899:VAL:O	4:A:929:LEU:HD12	2.03	0.58
4:A:1369:ALA:O	4:A:1370:LEU:C	2.44	0.58
5:B:202:TYR:HD1	5:B:203:PHE:O	1.86	0.58
5:B:365:THR:HG23	5:B:366:GLN:N	2.17	0.58
5:B:778:MET:CE	5:B:853:SER:CB	2.73	0.58
5:B:1060:ARG:CG	5:B:1061:GLU:N	2.65	0.58
5:B:1205:GLN:O	5:B:1206:GLU:C	2.46	0.58
6:C:56:THR:HG22	6:C:57:VAL:H	1.68	0.58
7:E:20:LYS:HB3	7:E:35:VAL:CG2	2.32	0.58
7:E:43:LYS:O	7:E:44:ALA:O	2.20	0.58
9:H:38:LEU:CD1	9:H:38:LEU:HG	2.19	0.58
10:I:7:CYS:CA	10:I:14:LEU:HD21	2.33	0.58
13:L:46:VAL:HG12	13:L:47:ARG:N	2.18	0.58
4:A:65:LEU:CD2	4:A:65:LEU:CD1	2.79	0.58
4:A:305:ASP:OD1	4:A:306:ASN:N	2.36	0.58
4:A:319:GLY:HA3	4:A:320:ARG:HH11	1.68	0.58
4:A:463:ILE:HD12	4:A:463:ILE:O	2.03	0.58
4:A:540:PHE:CD2	4:A:572:TRP:O	2.53	0.58
4:A:709:THR:HB	4:A:712:GLU:HG3	1.86	0.58
4:A:1289:ARG:N	4:A:1300:LYS:HZ3	2.01	0.58
4:A:1345:ARG:HG3	4:A:1376:THR:HG21	1.84	0.58
5:B:727:LYS:CD	5:B:1049:ASP:OD1	2.47	0.58
7:E:12:LEU:HD23	7:E:42:PHE:CZ	2.38	0.58
10:I:17:ARG:HG2	10:I:18:GLU:CA	2.32	0.58
4:A:320:ARG:HH21	5:B:471:LYS:CA	2.17	0.58
4:A:692:ASP:O	4:A:693:VAL:C	2.38	0.58
4:A:855:THR:CG2	4:A:857:ARG:HE	2.16	0.58
4:A:960:ILE:O	4:A:962:ARG:N	2.36	0.58
4:A:1189:SER:OG	4:A:1256:GLU:CD	2.43	0.58
5:B:955:THR:HG22	5:B:956:THR:CA	2.32	0.58
5:B:1021:MET:CE	5:B:1021:MET:CG	2.80	0.58
5:B:1144:ALA:O	5:B:1147:LEU:HB2	2.03	0.58
6:C:58:LEU:HD21	11:J:57:ILE:CD1	2.31	0.58
7:E:30:ILE:HG23	7:E:34:GLU:OE1	2.03	0.58
9:H:27:GLU:CD	9:H:39:THR:HG23	2.28	0.58
10:I:62:ILE:HG22	10:I:63:GLY:H	1.67	0.58
10:I:108:HIS:ND1	10:I:109:ILE:N	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:J:10:CYS:HB3	11:J:45:CYS:SG	2.43	0.58
4:A:335:ARG:O	4:A:336:ILE:C	2.41	0.58
4:A:361:LEU:N	4:A:471:ASN:ND2	2.50	0.58
4:A:655:PHE:CE2	4:A:659:HIS:HD2	2.21	0.58
4:A:783:THR:C	4:A:784:LEU:HD23	2.29	0.58
5:B:98:THR:O	5:B:126:SER:HB2	2.02	0.58
5:B:660:LYS:HE2	5:B:679:TYR:CE2	2.38	0.58
5:B:857:ARG:NH2	5:B:942:ARG:NH1	2.51	0.58
5:B:1051:THR:HG21	5:B:1053:GLU:HB2	1.85	0.58
5:B:1066:SER:O	5:B:1067:ARG:CD	2.46	0.58
6:C:164:ALA:O	6:C:165:LYS:C	2.40	0.58
7:E:28:TYR:HE1	7:E:78:LEU:CD1	2.16	0.58
8:F:134:ILE:HG22	8:F:135:ARG:N	2.18	0.58
10:I:60:GLN:O	10:I:61:ASP:C	2.43	0.58
4:A:497:THR:HG23	5:B:1146:PHE:HD1	1.69	0.58
4:A:531:ILE:CB	4:A:531:ILE:C	2.74	0.58
4:A:683:ILE:HD13	4:A:725:ALA:HB1	1.84	0.58
4:A:938:LYS:CD	4:A:938:LYS:HE3	2.18	0.58
4:A:971:PHE:CB	4:A:973:ILE:HD13	2.33	0.58
4:A:1189:SER:HB2	4:A:1190:PRO:HD3	1.86	0.58
4:A:1364:ASN:HD21	4:A:1366:ARG:NH1	1.99	0.58
4:A:1400:CYS:O	4:A:1402:PHE:N	2.36	0.58
5:B:179:CYS:C	5:B:181:LEU:H	2.11	0.58
5:B:292:ILE:HD11	5:B:327:ARG:N	2.11	0.58
5:B:545:ILE:O	5:B:546:SER:C	2.44	0.58
5:B:606:LYS:HB2	5:B:606:LYS:HE3	1.85	0.58
5:B:834:ASN:HB3	5:B:840:ILE:CD1	2.34	0.58
5:B:1180:PHE:O	5:B:1181:GLU:O	2.21	0.58
6:C:45:ALA:HA	6:C:72:LEU:CD1	2.32	0.58
6:C:142:VAL:HG12	6:C:143:LEU:C	2.28	0.58
6:C:205:LYS:O	6:C:207:CYS:N	2.37	0.58
7:E:110:PHE:HB3	7:E:134:THR:HA	1.85	0.58
8:F:117:PRO:HG2	8:F:118:LEU:H	1.69	0.58
4:A:780:VAL:C	4:A:782:ARG:H	2.05	0.58
4:A:1284:MET:CE	4:A:1284:MET:CB	2.81	0.58
5:B:287:ARG:CA	5:B:291:ILE:O	2.52	0.58
5:B:361:LEU:N	5:B:361:LEU:CD1	2.65	0.58
5:B:369:GLY:HA2	5:B:371:GLU:OE1	2.04	0.58
6:C:68:GLY:C	6:C:69:LEU:HD13	2.28	0.58
6:C:242:GLN:HE21	6:C:246:ARG:NE	1.95	0.58
7:E:78:LEU:HG	7:E:107:THR:CG2	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:H:49:VAL:CG1	9:H:50:ALA:N	2.63	0.58
9:H:56:THR:HG22	9:H:57:VAL:N	2.19	0.58
10:I:35:VAL:HG12	10:I:36:GLU:N	2.08	0.58
4:A:92:HIS:C	4:A:92:HIS:CD2	2.82	0.58
4:A:295:LEU:O	4:A:297:GLN:N	2.37	0.58
4:A:546:VAL:HG12	4:A:550:LEU:HD21	1.84	0.58
4:A:848:ILE:HG22	4:A:849:MET:N	2.18	0.58
4:A:889:SER:CB	4:A:892:ALA:H	2.14	0.58
4:A:1168:GLU:O	4:A:1171:GLN:N	2.36	0.58
4:A:1394:THR:HG22	4:A:1395:GLY:O	2.04	0.58
5:B:232:SER:O	5:B:232:SER:OG	2.19	0.58
5:B:999:MET:HA	5:B:999:MET:HE3	1.86	0.58
5:B:1143:ALA:O	5:B:1144:ALA:C	2.39	0.58
6:C:148:ARG:HG2	6:C:149:LYS:N	2.16	0.58
7:E:118:PRO:O	7:E:122:LYS:CE	2.52	0.58
7:E:124:VAL:HG22	7:E:132:ILE:HG23	1.82	0.58
8:F:81:THR:O	8:F:82:THR:O	2.21	0.58
4:A:128:ILE:CB	4:A:128:ILE:HA	2.16	0.58
4:A:431:LYS:O	4:A:432:VAL:CG2	2.49	0.58
4:A:522:GLY:C	4:A:523:ILE:CG1	2.75	0.58
4:A:867:ILE:O	4:A:868:TYR:C	2.40	0.58
4:A:873:MET:CG	4:A:957:PRO:HG3	2.34	0.58
4:A:1286:LYS:C	4:A:1287:TYR:O	2.46	0.58
4:A:1402:PHE:CG	4:A:1403:GLU:N	2.68	0.58
4:A:1426:GLU:HA	4:A:1429:ILE:HD12	1.85	0.58
5:B:294:ASP:H	10:I:12:ASN:ND2	2.02	0.58
5:B:314:LEU:O	5:B:315:LYS:C	2.46	0.58
5:B:368:GLU:CG	5:B:368:GLU:HB3	2.19	0.58
5:B:549:THR:CG2	5:B:549:THR:HB	2.23	0.58
5:B:979:LYS:O	5:B:980:PHE:CD1	2.56	0.58
12:K:70:ARG:HG3	12:K:71:PHE:N	2.17	0.58
4:A:348:SER:HA	4:A:489:LEU:O	2.04	0.58
4:A:451:HIS:CB	4:A:453:MET:HB2	2.34	0.58
4:A:491:VAL:H	5:B:1150:ARG:NH2	2.01	0.58
4:A:628:GLY:O	4:A:630:ILE:N	2.35	0.58
4:A:793:SER:CB	4:A:794:PRO:CD	2.82	0.58
4:A:807:GLY:O	5:B:728:ARG:HD3	2.04	0.58
4:A:897:TYR:CB	4:A:936:LEU:HD12	2.34	0.58
4:A:904:THR:H	4:A:920:LEU:HD21	1.69	0.58
5:B:308:TRP:O	5:B:311:LEU:HB2	2.03	0.58
5:B:789:MET:CE	5:B:965:LYS:HB2	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:881:ASN:CA	5:B:881:ASN:O	2.46	0.58
5:B:953:LEU:HD23	5:B:953:LEU:O	2.03	0.58
6:C:17:ASN:C	6:C:18:VAL:CG2	2.76	0.58
6:C:196:ASP:C	6:C:198:ALA:N	2.59	0.58
7:E:83:CYS:HA	7:E:84:ASP:N	2.19	0.58
8:F:109:VAL:CG2	8:F:124:GLU:CG	2.82	0.58
8:F:125:LEU:O	8:F:127:GLU:N	2.37	0.58
10:I:106:CYS:SG	10:I:108:HIS:CB	2.91	0.58
11:J:21:TYR:HB2	11:J:39:LEU:CD1	2.34	0.58
12:K:32:VAL:HG22	12:K:73:LEU:O	2.04	0.58
12:K:92:ASN:C	12:K:94:ILE:N	2.56	0.58
4:A:50:ILE:HG22	4:A:51:GLY:H	1.68	0.57
4:A:381:THR:HG22	4:A:383:TYR:HB2	1.85	0.57
4:A:518:LYS:HG3	4:A:519:PRO:CD	2.34	0.57
4:A:531:ILE:HG13	4:A:531:ILE:C	2.28	0.57
4:A:582:ILE:HD11	4:A:629:LEU:HD11	1.85	0.57
4:A:715:GLU:OE2	4:A:774:ARG:NH1	2.37	0.57
4:A:1035:TYR:O	4:A:1037:LEU:N	2.37	0.57
4:A:1068:ALA:O	4:A:1071:SER:N	2.37	0.57
4:A:1135:ARG:HB3	4:A:1136:SER:HB3	1.85	0.57
4:A:1224:LEU:HG	4:A:1226:VAL:HG22	1.84	0.57
4:A:1444:MET:O	8:F:132:LEU:HA	2.03	0.57
5:B:64:CYS:O	5:B:65:GLU:HB3	2.04	0.57
5:B:291:ILE:CG2	5:B:297:ILE:HD13	2.34	0.57
5:B:796:LEU:O	5:B:797:TYR:C	2.41	0.57
6:C:92:CYS:SG	6:C:94:LYS:HB2	2.44	0.57
8:F:81:THR:C	8:F:82:THR:O	2.45	0.57
12:K:77:THR:OG1	12:K:83:PRO:HD3	2.04	0.57
4:A:382:PRO:CD	4:A:428:TYR:CE2	2.87	0.57
4:A:563:PRO:O	4:A:563:PRO:HD2	2.03	0.57
4:A:780:VAL:C	4:A:782:ARG:N	2.57	0.57
4:A:849:MET:HE3	4:A:1061:GLY:O	2.04	0.57
4:A:962:ARG:O	4:A:964:ILE:N	2.38	0.57
5:B:893:LEU:HD23	5:B:897:GLY:O	2.03	0.57
16:B:1308:ATP:O1B	16:B:1308:ATP:H4'	2.03	0.57
6:C:128:ASN:O	6:C:129:ILE:HB	1.83	0.57
6:C:169:LYS:NZ	13:L:69:ALA:O	2.37	0.57
7:E:9:ILE:O	7:E:13:TRP:N	2.35	0.57
7:E:36:GLU:O	7:E:38:PRO:CD	2.52	0.57
9:H:15:VAL:HA	9:H:26:ILE:CD1	2.34	0.57
4:A:20:GLY:C	4:A:21:LEU:HD23	2.28	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:829:VAL:C	4:A:831:THR:H	2.12	0.57
4:A:947:PHE:HD2	4:A:954:TRP:CZ2	2.23	0.57
4:A:1191:TRP:CZ2	4:A:1257:ASP:CG	2.81	0.57
5:B:60:GLN:OE1	5:B:94:LYS:HA	2.03	0.57
5:B:297:ILE:C	5:B:299:GLU:N	2.59	0.57
5:B:883:LEU:CA	5:B:883:LEU:HB2	2.20	0.57
8:F:147:SER:OG	8:F:150:GLU:HG3	2.04	0.57
8:F:155:LEU:HD23	8:F:155:LEU:N	2.05	0.57
11:J:3:VAL:HA	11:J:53:HIS:CG	2.38	0.57
11:J:32:GLU:CD	11:J:32:GLU:N	2.62	0.57
12:K:65:HIS:HD2	12:K:66:PRO:N	2.02	0.57
4:A:546:VAL:CG1	4:A:546:VAL:CA	2.77	0.57
4:A:577:ILE:O	4:A:579:SER:N	2.38	0.57
4:A:664:THR:HA	4:A:668:ASP:OD2	2.05	0.57
4:A:744:LYS:HG2	4:A:748:MET:CE	2.35	0.57
4:A:1017:LEU:HB2	7:E:206:GLY:N	2.18	0.57
4:A:1344:GLY:O	4:A:1348:LEU:N	2.36	0.57
4:A:1365:TYR:O	4:A:1367:HIS:N	2.37	0.57
5:B:130:VAL:HG12	5:B:132:VAL:HG23	1.87	0.57
5:B:310:MET:HE2	5:B:310:MET:HB2	1.85	0.57
5:B:542:MET:HG3	5:B:747:MET:HE2	1.85	0.57
5:B:597:MET:O	5:B:600:LEU:CB	2.51	0.57
5:B:780:VAL:CG1	5:B:817:LEU:HD23	2.34	0.57
5:B:1115:THR:HB	5:B:1117:GLN:H	1.68	0.57
6:C:183:TRP:CD1	6:C:183:TRP:N	2.72	0.57
10:I:85:PHE:C	10:I:86:PHE:CD2	2.82	0.57
12:K:78:THR:HG22	12:K:79:GLU:O	2.04	0.57
12:K:86:ALA:O	12:K:90:ALA:HB2	2.05	0.57
12:K:97:LYS:C	12:K:100:ALA:CB	2.75	0.57
4:A:440:ASP:HB3	4:A:441:PRO:CD	2.33	0.57
4:A:743:VAL:HG11	4:A:758:ILE:CD1	2.34	0.57
4:A:794:PRO:HG2	4:A:795:GLU:CG	2.35	0.57
4:A:897:TYR:HB3	4:A:936:LEU:HD12	1.87	0.57
4:A:993:LEU:C	4:A:995:GLU:H	2.12	0.57
4:A:1053:PHE:HD2	4:A:1054:LEU:N	1.98	0.57
4:A:1116:LEU:H	4:A:1308:THR:HB	1.70	0.57
5:B:165:VAL:CG1	5:B:166:PHE:N	2.68	0.57
5:B:410:GLY:O	5:B:412:LEU:N	2.38	0.57
5:B:487:THR:O	5:B:490:SER:N	2.29	0.57
5:B:949:VAL:HG12	5:B:950:ASP:H	1.68	0.57
10:I:41:PRO:CD	10:I:42:LEU:N	2.64	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:I:85:PHE:C	10:I:86:PHE:CG	2.78	0.57
11:J:9:SER:OG	11:J:45:CYS:HB2	2.05	0.57
4:A:49:LYS:NZ	4:A:60:SER:C	2.53	0.57
5:B:474:SER:C	5:B:476:ARG:H	2.10	0.57
5:B:701:ILE:CB	5:B:740:HIS:CE1	2.87	0.57
6:C:242:GLN:NE2	6:C:246:ARG:HE	1.96	0.57
10:I:51:ASN:O	10:I:54:GLU:HG3	2.05	0.57
13:L:27:LEU:O	13:L:28:LYS:CG	2.50	0.57
4:A:137:ALA:O	4:A:138:ILE:C	2.44	0.57
4:A:266:LEU:CD2	4:A:303:TYR:CE1	2.88	0.57
4:A:356:ASP:HB2	4:A:469:ARG:HH11	1.68	0.57
4:A:441:PRO:O	4:A:442:VAL:HG13	2.05	0.57
4:A:805:LEU:HD12	4:A:806:ARG:HA	1.85	0.57
4:A:809:THR:CB	4:A:810:PRO:CD	2.81	0.57
4:A:886:ILE:HD13	4:A:944:ARG:HG3	1.85	0.57
4:A:967:ALA:HB2	4:A:1044:TRP:CE3	2.40	0.57
4:A:1377:THR:C	4:A:1379:GLY:H	2.13	0.57
5:B:482:VAL:O	5:B:482:VAL:HG23	2.03	0.57
5:B:1035:ALA:O	5:B:1036:ALA:C	2.48	0.57
5:B:1106:ARG:HH22	5:B:1109:GLY:C	2.10	0.57
6:C:69:LEU:O	11:J:6:ARG:HD2	2.04	0.57
6:C:163:ILE:CD1	6:C:166:GLU:HB2	2.30	0.57
7:E:152:LYS:HE2	7:E:199:ILE:HG21	1.85	0.57
9:H:58:THR:HB	9:H:143:LEU:CD1	2.35	0.57
12:K:47:ARG:HH11	12:K:47:ARG:C	2.12	0.57
12:K:64:GLU:OE1	12:K:72:LYS:HE3	2.04	0.57
1:R:9:G:H2'	1:R:10:A:OP2	2.03	0.57
4:A:90:VAL:CG1	4:A:297:GLN:HA	2.21	0.57
4:A:605:MET:HA	4:A:605:MET:CE	2.23	0.57
4:A:1022:LEU:CD2	4:A:1022:LEU:CD1	2.79	0.57
5:B:112:LEU:HD12	5:B:112:LEU:C	2.26	0.57
5:B:173:MET:HB2	5:B:203:PHE:CE2	2.39	0.57
5:B:330:ALA:O	5:B:332:ASP:N	2.37	0.57
5:B:1153:GLU:C	5:B:1154:ALA:O	2.42	0.57
6:C:33:LEU:HD11	6:C:37:MET:CE	2.27	0.57
6:C:57:VAL:CG1	11:J:60:PHE:HB2	2.35	0.57
7:E:158:SER:HB3	7:E:159:ASP:N	2.20	0.57
7:E:187:TYR:CD2	7:E:187:TYR:C	2.82	0.57
7:E:197:LYS:C	7:E:198:ILE:CG1	2.77	0.57
11:J:7:CYS:HB2	11:J:49:MET:CE	2.33	0.57
11:J:57:ILE:CG2	11:J:58:GLU:N	2.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:5:A:C4	1:R:6:G:C8	2.93	0.57
4:A:402:ALA:HB2	4:A:434:ARG:HB3	1.87	0.57
5:B:59:LEU:CD1	5:B:417:PHE:CE2	2.88	0.57
5:B:286:PHE:CG	5:B:297:ILE:HD12	2.40	0.57
5:B:597:MET:O	5:B:598:GLU:C	2.48	0.57
5:B:785:TYR:CD1	5:B:786:ASN:HA	2.39	0.57
5:B:817:LEU:N	5:B:818:PRO:HD2	2.17	0.57
5:B:918:ILE:CG2	5:B:918:ILE:CG1	2.78	0.57
6:C:134:ILE:HD11	6:C:141:GLY:HA3	1.85	0.57
6:C:261:ALA:HA	6:C:264:GLN:HG3	1.87	0.57
9:H:109:LYS:HB2	9:H:111:LEU:HB2	1.87	0.57
2:T:20:DC:C5	2:T:21:DC:C5	2.93	0.57
4:A:114:LEU:CD1	4:A:171:GLN:NE2	2.66	0.57
4:A:230:ARG:O	4:A:232:GLU:N	2.38	0.57
4:A:381:THR:O	4:A:383:TYR:N	2.38	0.57
4:A:462:VAL:HG12	4:A:463:ILE:H	1.70	0.57
4:A:602:ASP:OD1	4:A:615:GLY:HA2	2.04	0.57
4:A:857:ARG:CZ	8:F:139:PRO:HG2	2.35	0.57
4:A:901:LEU:HB2	4:A:926:GLN:HG2	1.87	0.57
4:A:1057:VAL:HG12	4:A:1058:VAL:N	2.20	0.57
4:A:1299:VAL:CG1	4:A:1299:VAL:CA	2.79	0.57
4:A:1300:LYS:O	4:A:1302:PRO:HD3	2.05	0.57
4:A:1336:MET:CE	4:A:1336:MET:CG	2.82	0.57
5:B:133:LYS:CD	5:B:133:LYS:HE3	2.17	0.57
5:B:215:GLN:O	5:B:406:LEU:HA	2.05	0.57
5:B:233:PRO:CG	5:B:234:ILE:HD13	2.31	0.57
5:B:412:LEU:HB3	5:B:466:TRP:HE1	1.66	0.57
5:B:825:VAL:CG1	5:B:825:VAL:CA	2.77	0.57
5:B:881:ASN:O	5:B:883:LEU:CD2	2.53	0.57
6:C:46:ILE:CG2	6:C:157:CYS:HB3	2.34	0.57
8:F:95:GLY:O	8:F:98:ALA:HB3	2.05	0.57
12:K:92:ASN:O	12:K:94:ILE:N	2.38	0.57
4:A:496:GLU:O	4:A:497:THR:C	2.46	0.56
4:A:602:ASP:OD1	4:A:615:GLY:N	2.38	0.56
4:A:900:ASP:C	4:A:926:GLN:NE2	2.63	0.56
4:A:1410:PHE:HD2	5:B:1212:ILE:HD11	1.70	0.56
5:B:461:LEU:CD1	5:B:466:TRP:HH2	2.17	0.56
5:B:1101:ASP:O	5:B:1122:ARG:CZ	2.53	0.56
7:E:112:TYR:CD1	7:E:136:ASN:HB2	2.40	0.56
12:K:71:PHE:C	12:K:71:PHE:HD1	2.13	0.56
4:A:40:THR:HG22	4:A:41:MET:HE3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:70:CYS:C	4:A:71:GLN:CG	2.78	0.56
4:A:128:ILE:CB	4:A:128:ILE:C	2.76	0.56
4:A:332:LYS:O	4:A:334:GLY:N	2.37	0.56
4:A:343:LYS:CE	5:B:1151:LEU:O	2.52	0.56
4:A:444:PHE:CZ	4:A:470:LEU:HD23	2.36	0.56
4:A:523:ILE:HD13	4:A:622:VAL:HG23	1.87	0.56
4:A:567:LYS:HE2	9:H:95:TYR:CD2	2.40	0.56
4:A:997:LEU:HB3	4:A:1053:PHE:CG	2.40	0.56
5:B:37:PHE:CD2	5:B:38:PHE:N	2.72	0.56
5:B:203:PHE:N	5:B:210:LYS:O	2.30	0.56
5:B:330:ALA:C	5:B:332:ASP:N	2.62	0.56
5:B:350:GLN:O	5:B:353:LYS:N	2.39	0.56
5:B:486:TYR:CE2	5:B:778:MET:HG3	2.40	0.56
5:B:773:MET:O	5:B:774:GLY:C	2.47	0.56
8:F:101:ILE:CD1	8:F:121:ALA:HB2	2.31	0.56
9:H:84:ALA:HA	9:H:86:ASP:C	2.30	0.56
10:I:111:THR:HG23	10:I:112:SER:H	1.69	0.56
1:R:5:A:C2	1:R:6:G:C4	2.93	0.56
4:A:150:THR:CG2	4:A:150:THR:HA	2.35	0.56
4:A:152:VAL:CB	4:A:152:VAL:N	2.64	0.56
4:A:315:LEU:CA	4:A:319:GLY:O	2.54	0.56
4:A:353:ILE:HD12	4:A:482:PHE:HE2	1.70	0.56
4:A:382:PRO:O	4:A:383:TYR:C	2.47	0.56
4:A:452:LYS:HG3	4:A:453:MET:SD	2.45	0.56
4:A:512:VAL:O	4:A:512:VAL:CG1	2.53	0.56
4:A:602:ASP:OD1	4:A:615:GLY:CA	2.53	0.56
4:A:621:THR:O	4:A:629:LEU:HB2	2.05	0.56
4:A:696:GLU:HG2	4:A:702:LEU:HD23	1.88	0.56
4:A:764:CYS:CA	4:A:765:VAL:N	2.62	0.56
4:A:1028:THR:O	4:A:1030:ARG:N	2.38	0.56
4:A:1030:ARG:HA	4:A:1034:GLU:HG3	1.87	0.56
4:A:1171:GLN:O	4:A:1174:PHE:CZ	2.58	0.56
4:A:1438:THR:CG2	4:A:1438:THR:O	2.53	0.56
5:B:190:TYR:CE1	11:J:62:ARG:HG2	2.40	0.56
5:B:294:ASP:N	10:I:12:ASN:ND2	2.54	0.56
5:B:324:ILE:HD13	5:B:329:THR:O	2.06	0.56
5:B:555:ILE:HD11	5:B:582:VAL:CG1	2.35	0.56
5:B:704:ALA:HB2	5:B:738:PHE:CE2	2.40	0.56
5:B:715:ALA:CB	5:B:715:ALA:N	2.63	0.56
5:B:899:ILE:HD11	5:B:911:ILE:HG23	1.86	0.56
5:B:944:THR:O	5:B:944:THR:CG2	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:986:GLN:OE1	5:B:987:LYS:N	2.38	0.56
6:C:166:GLU:O	6:C:167:HIS:HB2	2.06	0.56
9:H:112:ILE:O	9:H:126:GLU:HA	2.04	0.56
9:H:125:LEU:CD1	9:H:125:LEU:HA	2.34	0.56
10:I:25:LEU:CD1	10:I:26:LEU:N	2.67	0.56
11:J:3:VAL:CG2	11:J:3:VAL:N	2.68	0.56
2:T:23:DC:OP1	5:B:1123:SER:OG	2.22	0.56
4:A:335:ARG:HD3	4:A:339:ASN:HD22	1.70	0.56
4:A:399:HIS:CB	4:A:400:PRO:HD3	2.15	0.56
4:A:456:MET:HG3	4:A:478:TYR:OH	2.05	0.56
4:A:866:PHE:HB2	7:E:208:TYR:HE1	1.71	0.56
4:A:913:LEU:HD11	4:A:981:LEU:O	2.05	0.56
4:A:918:GLU:O	4:A:918:GLU:OE1	2.23	0.56
4:A:1386:ARG:C	4:A:1387:HIS:ND1	2.63	0.56
5:B:124:TYR:HB3	5:B:204:ILE:HD13	1.86	0.56
5:B:957:ASN:O	5:B:959:ASP:N	2.38	0.56
6:C:56:THR:HG22	6:C:57:VAL:N	2.20	0.56
6:C:67:LEU:O	6:C:69:LEU:N	2.37	0.56
6:C:70:ILE:HD12	6:C:144:ILE:HD11	1.87	0.56
9:H:11:GLN:HG3	9:H:53:ASP:O	2.05	0.56
9:H:101:ALA:CB	9:H:116:TYR:CD2	2.79	0.56
9:H:102:TYR:CD2	9:H:115:TYR:O	2.57	0.56
10:I:33:SER:O	10:I:34:TYR:O	2.22	0.56
4:A:18:GLN:C	4:A:19:PHE:O	2.47	0.56
4:A:68:GLN:NE2	4:A:80:HIS:CE1	2.74	0.56
4:A:406:ILE:N	4:A:406:ILE:HD12	2.21	0.56
4:A:456:MET:SD	4:A:507:VAL:HG22	2.46	0.56
4:A:519:PRO:O	4:A:519:PRO:CG	2.51	0.56
4:A:645:LEU:HD12	4:A:645:LEU:C	2.29	0.56
4:A:777:PHE:CD2	4:A:782:ARG:CA	2.88	0.56
4:A:1063:MET:SD	4:A:1436:ILE:HG12	2.45	0.56
4:A:1156:PRO:CD	4:A:1157:ASP:N	2.67	0.56
5:B:292:ILE:CD1	5:B:327:ARG:H	2.13	0.56
5:B:588:GLY:C	5:B:589:VAL:HG23	2.30	0.56
5:B:635:ARG:NH1	5:B:636:PRO:HG2	2.20	0.56
6:C:5:GLY:O	6:C:7:GLN:CG	2.51	0.56
6:C:258:ILE:CD1	12:K:42:LEU:HD21	2.34	0.56
10:I:85:PHE:O	10:I:86:PHE:HB3	2.04	0.56
4:A:94:GLY:O	4:A:95:PHE:HD2	1.89	0.56
4:A:343:LYS:HZ1	5:B:1197:PRO:HB3	1.71	0.56
4:A:690:VAL:CG2	4:A:718:VAL:HG13	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:743:VAL:O	4:A:743:VAL:CG1	2.50	0.56
4:A:899:VAL:C	4:A:926:GLN:HE22	2.13	0.56
4:A:1366:ARG:HH11	4:A:1366:ARG:CG	2.09	0.56
5:B:133:LYS:CD	5:B:133:LYS:HE2	2.17	0.56
5:B:277:LYS:HD3	5:B:335:GLY:O	2.04	0.56
5:B:600:LEU:HB3	5:B:615:MET:CE	2.36	0.56
5:B:754:SER:O	5:B:806:THR:HG21	2.04	0.56
5:B:1006:ILE:HG21	5:B:1087:PHE:CE2	2.41	0.56
6:C:74:SER:N	6:C:237:SER:O	2.37	0.56
9:H:89:LEU:HB2	9:H:91:ASP:OD1	2.06	0.56
4:A:49:LYS:NZ	4:A:60:SER:HA	2.20	0.56
4:A:284:ALA:CB	4:A:284:ALA:C	2.73	0.56
4:A:337:ARG:CG	4:A:337:ARG:NE	2.65	0.56
4:A:359:LEU:HD23	4:A:359:LEU:C	2.31	0.56
4:A:464:PRO:CG	4:A:465:TYR:CD1	2.86	0.56
4:A:500:GLU:HG2	5:B:1143:ALA:HB1	1.87	0.56
4:A:567:LYS:CE	9:H:97:MET:HG2	2.35	0.56
4:A:588:LEU:HD12	4:A:589:GLN:N	2.08	0.56
4:A:640:GLN:O	4:A:643:ALA:HB3	2.05	0.56
4:A:886:ILE:HD11	4:A:944:ARG:N	2.21	0.56
4:A:896:ARG:C	4:A:897:TYR:HD1	2.14	0.56
4:A:901:LEU:HA	4:A:907:THR:CG2	2.36	0.56
4:A:1282:VAL:CG1	4:A:1283:VAL:N	2.53	0.56
5:B:25:ILE:CD1	5:B:651:LEU:HD12	2.18	0.56
5:B:275:TYR:CG	5:B:275:TYR:HB3	2.25	0.56
5:B:827:ILE:HD12	5:B:1086:PHE:CD2	2.41	0.56
5:B:947:GLY:C	5:B:948:ILE:CG1	2.78	0.56
5:B:1152:MET:HE1	5:B:1196:ILE:HA	1.86	0.56
6:C:181:ASP:N	6:C:182:PRO:CD	2.68	0.56
6:C:196:ASP:O	6:C:198:ALA:N	2.38	0.56
6:C:239:PRO:O	6:C:240:VAL:C	2.47	0.56
6:C:262:LEU:O	6:C:263:THR:O	2.23	0.56
7:E:173:SER:CB	7:E:177:ARG:NH2	2.65	0.56
8:F:97:ARG:O	8:F:101:ILE:HG13	2.06	0.56
8:F:109:VAL:CG2	8:F:124:GLU:HG3	2.36	0.56
9:H:38:LEU:HD11	9:H:123:MET:HE2	1.88	0.56
12:K:83:PRO:CA	12:K:86:ALA:HB3	2.33	0.56
13:L:27:LEU:HD23	13:L:62:LYS:HE2	1.88	0.56
4:A:27:VAL:O	4:A:30:ILE:HG22	2.04	0.56
4:A:181:LEU:O	4:A:202:LEU:CD1	2.53	0.56
4:A:380:VAL:CG2	4:A:430:TRP:N	2.61	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:406:ILE:O	4:A:431:LYS:N	2.33	0.56
4:A:759:ALA:O	4:A:763:ALA:CB	2.45	0.56
4:A:947:PHE:CD2	4:A:954:TRP:CE2	2.94	0.56
4:A:1298:TYR:C	4:A:1299:VAL:CG2	2.72	0.56
5:B:766:ARG:O	5:B:769:TYR:N	2.28	0.56
7:E:7:ARG:C	7:E:9:ILE:H	2.14	0.56
8:F:81:THR:CG2	8:F:136:ARG:HH11	2.17	0.56
12:K:87:LEU:C	12:K:90:ALA:HB3	2.25	0.56
4:A:32:VAL:HA	4:A:57:ARG:HH11	1.70	0.56
4:A:92:HIS:O	4:A:92:HIS:CD2	2.59	0.56
4:A:218:ASP:O	4:A:219:PHE:C	2.48	0.56
4:A:325:ILE:CG2	4:A:325:ILE:CG1	2.81	0.56
4:A:596:THR:CB	4:A:596:THR:O	2.32	0.56
4:A:849:MET:HB2	4:A:1062:GLU:O	2.05	0.56
4:A:913:LEU:CD1	4:A:914:GLU:N	2.69	0.56
4:A:942:PHE:C	4:A:942:PHE:HD2	2.14	0.56
4:A:1019:CYS:O	4:A:1020:CYS:C	2.48	0.56
4:A:1116:LEU:HD22	4:A:1311:VAL:CG2	2.29	0.56
4:A:1132:LYS:O	4:A:1135:ARG:CB	2.53	0.56
4:A:1392:SER:O	4:A:1393:ASN:ND2	2.39	0.56
5:B:205:ILE:CG2	5:B:206:ASN:ND2	2.69	0.56
5:B:216:GLU:OE1	5:B:500:THR:OG1	2.24	0.56
5:B:258:LEU:O	5:B:259:TYR:C	2.48	0.56
5:B:814:PHE:O	5:B:818:PRO:HD3	2.06	0.56
6:C:80:LEU:HD12	6:C:81:GLU:N	2.19	0.56
7:E:57:MET:HG2	7:E:57:MET:O	2.06	0.56
7:E:87:SER:C	7:E:88:VAL:HG23	2.30	0.56
10:I:4:PHE:CE1	10:I:13:MET:CE	2.87	0.56
12:K:99:GLY:O	12:K:100:ALA:C	2.46	0.56
1:R:8:G:N2	2:T:22:DT:C4	2.74	0.56
4:A:495:GLU:CA	4:A:498:ARG:HG3	2.35	0.56
4:A:567:LYS:O	4:A:569:LYS:N	2.36	0.56
4:A:985:ASP:O	4:A:986:ILE:C	2.48	0.56
4:A:1290:LYS:HA	4:A:1299:VAL:O	2.06	0.56
4:A:1334:ASP:O	4:A:1337:GLU:N	2.39	0.56
4:A:1397:LEU:O	4:A:1398:MET:C	2.44	0.56
5:B:249:ARG:CA	5:B:250:PHE:N	2.64	0.56
6:C:70:ILE:HD11	6:C:144:ILE:HD11	1.87	0.56
6:C:98:VAL:HA	6:C:99:LEU:HD23	1.87	0.56
6:C:145:CYS:HA	11:J:2:ILE:HD11	1.87	0.56
7:E:23:VAL:CG1	7:E:28:TYR:HB2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:97:VAL:HG13	7:E:127:ILE:CG2	2.23	0.56
7:E:178:ILE:O	7:E:215:MET:HB2	2.06	0.56
8:F:100:GLN:O	8:F:101:ILE:C	2.46	0.56
9:H:142:LEU:HD21	9:H:144:ILE:HD11	1.87	0.56
10:I:35:VAL:O	10:I:36:GLU:HB3	2.06	0.56
4:A:304:MET:HG3	5:B:1210:MET:HG3	1.87	0.55
4:A:506:ALA:O	4:A:508:PRO:CD	2.54	0.55
4:A:751:SER:HB2	5:B:1015:HIS:CE1	2.41	0.55
4:A:848:ILE:HG22	4:A:849:MET:H	1.71	0.55
4:A:852:TYR:CD2	4:A:1060:PRO:HB2	2.41	0.55
4:A:860:LEU:HB3	4:A:862:ASN:OD1	2.06	0.55
5:B:174:LEU:HD12	5:B:179:CYS:HG	1.71	0.55
5:B:233:PRO:HG2	5:B:234:ILE:H	1.71	0.55
5:B:288:ALA:HB2	5:B:330:ALA:CB	2.36	0.55
5:B:420:LEU:HD21	5:B:468:GLU:OE2	2.06	0.55
5:B:804:GLY:C	5:B:805:THR:CG2	2.79	0.55
5:B:875:GLU:OE2	5:B:934:LYS:HD3	2.05	0.55
6:C:32:SER:HA	6:C:35:ARG:HG3	1.88	0.55
7:E:54:GLN:O	7:E:55:ARG:C	2.48	0.55
8:F:76:LYS:CB	8:F:76:LYS:N	2.67	0.55
12:K:32:VAL:HG23	12:K:74:ARG:HA	1.88	0.55
4:A:108:MET:HG3	4:A:170:THR:O	2.06	0.55
4:A:210:ILE:HG22	4:A:211:PHE:N	2.20	0.55
4:A:598:LEU:HD13	9:H:25:ARG:HH12	1.66	0.55
4:A:731:ARG:C	4:A:733:ALA:N	2.61	0.55
4:A:791:ASP:OD1	4:A:791:ASP:O	2.24	0.55
4:A:1151:GLU:C	4:A:1152:ILE:HD12	2.31	0.55
4:A:1193:LEU:HB2	4:A:1260:LEU:HD11	1.87	0.55
5:B:101:MET:C	5:B:102:VAL:HG22	2.27	0.55
5:B:251:ILE:HD13	5:B:252:SER:H	1.70	0.55
5:B:590:HIS:CD2	5:B:596:LEU:HD22	2.42	0.55
5:B:604:ARG:HA	5:B:609:ILE:O	2.06	0.55
5:B:770:GLN:CD	5:B:983:ARG:HA	2.30	0.55
5:B:890:TYR:O	5:B:893:LEU:HD12	2.06	0.55
5:B:1036:ALA:O	5:B:1037:LEU:C	2.42	0.55
6:C:82:TYR:O	6:C:85:ASP:N	2.37	0.55
4:A:133:LYS:O	4:A:137:ALA:CB	2.55	0.55
4:A:151:ASP:CB	4:A:162:VAL:O	2.54	0.55
4:A:531:ILE:HD13	4:A:622:VAL:CG2	2.06	0.55
4:A:588:LEU:CD1	4:A:588:LEU:HA	2.37	0.55
4:A:694:THR:O	4:A:695:LYS:C	2.46	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1079:MET:HA	4:A:1359:ASP:OD1	2.06	0.55
4:A:1361:SER:CA	4:A:1361:SER:HB2	2.17	0.55
5:B:454:THR:HG22	5:B:454:THR:O	2.05	0.55
5:B:549:THR:CG2	5:B:550:ASP:H	2.20	0.55
5:B:957:ASN:HD22	5:B:957:ASN:C	2.13	0.55
5:B:1131:GLY:C	5:B:1133:MET:N	2.65	0.55
7:E:143:ASN:OD1	7:E:187:TYR:HE1	1.89	0.55
7:E:152:LYS:CG	7:E:152:LYS:HB2	2.19	0.55
9:H:41:ASP:HB2	9:H:122:LEU:H	1.71	0.55
9:H:42:ILE:HD12	9:H:95:TYR:CE2	2.41	0.55
9:H:123:MET:CE	9:H:123:MET:CG	2.85	0.55
12:K:37:LYS:C	12:K:38:GLU:HG2	2.31	0.55
12:K:46:ILE:H	12:K:46:ILE:HD12	1.70	0.55
12:K:63:VAL:O	12:K:64:GLU:C	2.48	0.55
4:A:210:ILE:HG22	4:A:211:PHE:CD1	2.42	0.55
4:A:315:LEU:CB	4:A:315:LEU:N	2.64	0.55
4:A:320:ARG:NH2	5:B:471:LYS:CA	2.69	0.55
4:A:464:PRO:CB	4:A:465:TYR:HD1	2.20	0.55
4:A:590:ARG:CG	4:A:590:ARG:NE	2.65	0.55
4:A:804:TYR:HE1	5:B:1021:MET:HE3	1.71	0.55
4:A:805:LEU:O	4:A:805:LEU:CD1	2.52	0.55
4:A:1224:LEU:HD12	4:A:1241:ARG:O	2.07	0.55
5:B:426:LYS:O	5:B:430:ARG:CZ	2.54	0.55
5:B:491:THR:O	5:B:492:LEU:C	2.44	0.55
5:B:519:TRP:CZ2	5:B:705:MET:HE1	2.42	0.55
5:B:712:PRO:O	5:B:713:ALA:O	2.24	0.55
5:B:738:PHE:C	5:B:739:THR:CG2	2.72	0.55
5:B:792:MET:HA	5:B:856:PHE:O	2.07	0.55
5:B:984:HIS:CD2	5:B:1025:HIS:H	2.25	0.55
5:B:987:LYS:NZ	16:B:1308:ATP:O3G	2.38	0.55
5:B:1072:MET:SD	5:B:1072:MET:HB3	2.44	0.55
5:B:1106:ARG:CD	5:B:1126:GLY:O	2.43	0.55
6:C:135:GLN:O	6:C:136:ASP:O	2.25	0.55
6:C:251:LEU:O	6:C:252:GLN:C	2.50	0.55
9:H:104:PHE:CD2	9:H:114:VAL:CG1	2.90	0.55
11:J:14:VAL:O	11:J:17:LYS:N	2.39	0.55
12:K:36:GLU:O	12:K:37:LYS:C	2.44	0.55
2:T:12:DC:C3'	2:T:13:DA:P	2.89	0.55
4:A:211:PHE:C	4:A:213:HIS:H	2.14	0.55
4:A:311:GLN:CB	4:A:311:GLN:N	2.68	0.55
4:A:321:PRO:CG	4:A:322:VAL:N	2.69	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:557:ASP:OD2	4:A:559:VAL:HG21	2.07	0.55
4:A:733:ALA:O	4:A:734:GLU:C	2.49	0.55
4:A:845:LEU:HB2	4:A:1065:GLY:O	2.07	0.55
4:A:855:THR:HG23	4:A:856:THR:N	2.20	0.55
4:A:1224:LEU:HD21	4:A:1240:CYS:HB3	1.89	0.55
5:B:199:MET:CE	5:B:199:MET:CG	2.85	0.55
5:B:635:ARG:NH2	5:B:698:GLU:OE2	2.39	0.55
5:B:723:VAL:O	5:B:725:PRO:N	2.39	0.55
5:B:730:ARG:C	5:B:731:VAL:HG23	2.29	0.55
5:B:786:ASN:CB	5:B:786:ASN:ND2	2.66	0.55
6:C:33:LEU:HD12	6:C:37:MET:CE	2.31	0.55
6:C:240:VAL:O	6:C:241:ASP:C	2.49	0.55
6:C:256:ALA:O	6:C:260:LEU:HB3	2.06	0.55
7:E:73:PRO:O	7:E:74:ASP:C	2.47	0.55
4:A:24:PRO:HD2	4:A:25:GLU:H	1.70	0.55
4:A:208:LEU:CD2	4:A:232:GLU:HB2	2.37	0.55
4:A:405:VAL:O	4:A:413:ILE:HB	2.07	0.55
4:A:442:VAL:O	4:A:457:ALA:HA	2.06	0.55
5:B:34:ILE:CD1	5:B:743:ILE:HG21	2.36	0.55
5:B:309:GLN:HG3	10:I:52:ILE:HG21	1.87	0.55
5:B:806:THR:N	5:B:809:MET:HE3	2.22	0.55
5:B:1146:PHE:C	5:B:1146:PHE:CD2	2.84	0.55
7:E:190:LEU:CD2	7:E:190:LEU:HG	2.19	0.55
4:A:534:LEU:O	4:A:539:THR:HG21	2.07	0.55
4:A:814:PHE:CE1	5:B:514:LEU:HD21	2.42	0.55
4:A:909:ASP:OD1	4:A:910:PRO:CD	2.55	0.55
4:A:987:VAL:CG2	4:A:1028:THR:OG1	2.55	0.55
4:A:1020:CYS:O	4:A:1021:LEU:C	2.43	0.55
4:A:1126:ALA:O	4:A:1128:GLN:N	2.39	0.55
5:B:112:LEU:HD21	5:B:122:LEU:HD12	1.88	0.55
5:B:361:LEU:N	5:B:362:PRO:CD	2.69	0.55
5:B:690:VAL:O	5:B:690:VAL:HG12	2.01	0.55
5:B:704:ALA:HB2	5:B:738:PHE:CD2	2.42	0.55
5:B:955:THR:HG22	5:B:956:THR:CB	2.36	0.55
7:E:78:LEU:CG	7:E:107:THR:HG22	2.36	0.55
9:H:138:GLU:O	9:H:139:ASN:O	2.23	0.55
12:K:32:VAL:HG23	12:K:74:ARG:CG	2.26	0.55
12:K:40:HIS:O	12:K:42:LEU:N	2.40	0.55
4:A:95:PHE:CD1	4:A:234:MET:HG2	2.41	0.55
4:A:357:PRO:HD2	5:B:833:TYR:CZ	2.42	0.55
4:A:403:LYS:CD	4:A:403:LYS:HE2	2.16	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:522:GLY:O	4:A:523:ILE:HG13	2.06	0.55
4:A:550:LEU:O	4:A:551:TYR:C	2.49	0.55
4:A:947:PHE:CE2	4:A:954:TRP:CE2	2.94	0.55
4:A:971:PHE:O	4:A:973:ILE:CD1	2.55	0.55
4:A:977:LYS:CD	4:A:977:LYS:HE3	2.19	0.55
4:A:1004:ASN:CG	7:E:167:ARG:HD2	2.19	0.55
4:A:1061:GLY:O	4:A:1062:GLU:C	2.48	0.55
4:A:1134:ILE:HG22	4:A:1138:ILE:CG1	2.37	0.55
4:A:1441:PHE:HZ	8:F:88:TYR:C	2.14	0.55
4:A:1442:ASP:HB3	8:F:135:ARG:HB3	1.89	0.55
5:B:265:SER:O	5:B:266:ALA:C	2.50	0.55
5:B:518:HIS:O	5:B:519:TRP:C	2.41	0.55
5:B:705:MET:C	5:B:706:GLN:O	2.43	0.55
5:B:758:PHE:CE2	5:B:1044:ALA:HA	2.41	0.55
6:C:194:GLU:O	6:C:195:GLN:CG	2.47	0.55
9:H:23:VAL:HG12	9:H:24:CYS:N	2.21	0.55
10:I:15:TYR:O	10:I:27:PHE:HD2	1.89	0.55
10:I:83:ASN:N	10:I:83:ASN:ND2	2.54	0.55
12:K:107:THR:O	12:K:111:LEU:CD2	2.55	0.55
4:A:18:GLN:HB3	5:B:1215:ARG:CB	2.35	0.55
4:A:35:ILE:O	4:A:270:LEU:HD13	2.06	0.55
4:A:91:PHE:H	4:A:297:GLN:CD	2.13	0.55
4:A:211:PHE:O	4:A:213:HIS:N	2.39	0.55
4:A:250:ILE:O	4:A:251:SER:HB3	2.05	0.55
4:A:1445:ILE:CA	4:A:1445:ILE:CG2	2.78	0.55
5:B:34:ILE:N	5:B:34:ILE:CD1	2.64	0.55
5:B:724:ASP:O	5:B:726:ALA:N	2.40	0.55
6:C:123:ASN:HD22	6:C:125:MET:HG2	1.72	0.55
8:F:133:VAL:O	8:F:133:VAL:HG12	2.06	0.55
9:H:129:TYR:C	9:H:131:ASN:N	2.64	0.55
12:K:105:PHE:C	12:K:107:THR:H	2.12	0.55
4:A:114:LEU:CD2	4:A:114:LEU:N	2.57	0.55
4:A:494:SER:HB2	4:A:496:GLU:HG3	1.89	0.55
4:A:587:HIS:HE1	4:A:969:GLN:CG	2.19	0.55
4:A:855:THR:HG21	4:A:857:ARG:NE	2.22	0.55
4:A:963:ILE:O	4:A:963:ILE:CG2	2.50	0.55
4:A:1111:MET:CE	4:A:1111:MET:CB	2.85	0.55
4:A:1157:ASP:OD2	4:A:1160:SER:N	2.39	0.55
5:B:266:ALA:HA	5:B:267:ARG:H	1.72	0.55
5:B:681:TRP:O	5:B:684:LEU:HB2	2.07	0.55
5:B:707:PRO:HG2	5:B:708:GLU:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:864:LYS:C	5:B:865:LYS:CA	2.76	0.55
5:B:1177:HIS:C	5:B:1179:GLN:N	2.64	0.55
6:C:214:ASN:O	6:C:216:GLY:N	2.40	0.55
7:E:45:LYS:CB	7:E:45:LYS:HA	2.18	0.55
8:F:136:ARG:O	8:F:143:PHE:HA	2.07	0.55
12:K:53:ASP:OD1	12:K:56:VAL:HG22	2.07	0.55
4:A:11:LEU:HA	5:B:1193:GLN:O	2.07	0.54
4:A:81:PHE:CE1	5:B:1208:MET:HE2	2.41	0.54
4:A:90:VAL:C	4:A:297:GLN:HE22	2.08	0.54
4:A:179:LEU:HD13	4:A:297:GLN:HG3	1.87	0.54
4:A:391:LEU:C	4:A:393:ARG:N	2.63	0.54
4:A:406:ILE:HD12	4:A:406:ILE:H	1.70	0.54
4:A:464:PRO:HB2	4:A:465:TYR:CD1	2.42	0.54
4:A:670:ILE:HG22	4:A:671:ALA:HA	1.87	0.54
4:A:679:ILE:O	4:A:680:THR:C	2.45	0.54
4:A:770:VAL:HG13	4:A:822:GLU:OE1	2.07	0.54
4:A:901:LEU:N	4:A:926:GLN:NE2	2.55	0.54
4:A:1331:SER:O	4:A:1334:ASP:N	2.39	0.54
5:B:93:GLY:O	5:B:94:LYS:C	2.51	0.54
5:B:485:ARG:HH11	5:B:485:ARG:HG3	1.69	0.54
5:B:1034:VAL:HG12	5:B:1035:ALA:N	2.20	0.54
5:B:1104:HIS:CG	5:B:1105:ALA:N	2.75	0.54
5:B:1212:ILE:CG2	5:B:1213:THR:N	2.67	0.54
6:C:173:ALA:O	6:C:233:GLU:O	2.25	0.54
7:E:52:ARG:CB	7:E:52:ARG:C	2.78	0.54
9:H:6:PHE:CG	9:H:7:ASP:N	2.74	0.54
9:H:15:VAL:CG2	9:H:49:VAL:HG12	2.37	0.54
9:H:38:LEU:HA	9:H:124:ARG:O	2.07	0.54
9:H:40:LEU:CD1	9:H:123:MET:CE	2.80	0.54
4:A:492:PRO:HB2	4:A:497:THR:CG2	2.38	0.54
4:A:543:LEU:HG	4:A:547:LEU:HD12	1.90	0.54
4:A:567:LYS:CB	4:A:568:PRO:HD2	2.29	0.54
4:A:570:PRO:O	4:A:570:PRO:HD2	2.07	0.54
4:A:728:LYS:O	4:A:732:LEU:N	2.37	0.54
4:A:1354:ASN:O	4:A:1358:SER:OG	2.19	0.54
4:A:1372:VAL:O	4:A:1373:ASP:C	2.46	0.54
5:B:99:LYS:HB3	5:B:180:TYR:HE2	1.67	0.54
5:B:461:LEU:HD11	5:B:466:TRP:CH2	2.41	0.54
5:B:956:THR:HG23	5:B:957:ASN:N	2.13	0.54
7:E:157:SER:C	7:E:159:ASP:N	2.66	0.54
10:I:8:ARG:O	10:I:9:ASP:C	2.50	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:K:49:GLU:C	12:K:51:LEU:H	2.13	0.54
4:A:343:LYS:NZ	5:B:1197:PRO:HB3	2.21	0.54
4:A:523:ILE:HG21	4:A:531:ILE:CG2	2.37	0.54
4:A:543:LEU:HG	4:A:547:LEU:CD1	2.38	0.54
4:A:814:PHE:O	4:A:817:ALA:HB3	2.06	0.54
4:A:818:MET:O	4:A:819:GLY:C	2.50	0.54
4:A:962:ARG:HA	4:A:965:GLN:HE21	1.72	0.54
4:A:1282:VAL:O	4:A:1282:VAL:CG1	2.27	0.54
4:A:1295:THR:OG1	4:A:1297:GLU:OE1	2.24	0.54
5:B:421:PHE:CD1	5:B:424:LEU:CD2	2.91	0.54
5:B:471:LYS:CE	5:B:471:LYS:CG	2.80	0.54
5:B:477:ALA:HB1	5:B:479:VAL:HA	1.88	0.54
5:B:695:ALA:CB	5:B:696:GLU:N	2.69	0.54
5:B:698:GLU:O	5:B:701:ILE:CD1	2.56	0.54
6:C:15:LYS:O	6:C:240:VAL:CG2	2.55	0.54
6:C:67:LEU:C	6:C:69:LEU:H	2.15	0.54
6:C:196:ASP:O	6:C:197:SER:C	2.50	0.54
7:E:78:LEU:HG	7:E:107:THR:HG22	1.89	0.54
7:E:81:GLU:HB3	7:E:96:PHE:CE1	2.43	0.54
8:F:111:LEU:H	8:F:111:LEU:CD1	2.10	0.54
8:F:120:ILE:CG2	8:F:121:ALA:N	2.68	0.54
9:H:19:ARG:O	9:H:20:TYR:CD2	2.61	0.54
4:A:17:VAL:CG1	4:A:17:VAL:HB	2.18	0.54
4:A:91:PHE:CG	4:A:297:GLN:OE1	2.56	0.54
4:A:209:ASN:O	4:A:211:PHE:N	2.41	0.54
4:A:273:ASN:CA	4:A:296:LEU:HD11	2.36	0.54
4:A:492:PRO:O	4:A:493:GLN:NE2	2.41	0.54
4:A:587:HIS:CE1	4:A:969:GLN:CG	2.91	0.54
4:A:691:LEU:O	4:A:692:ASP:C	2.49	0.54
4:A:805:LEU:C	4:A:805:LEU:CD1	2.72	0.54
4:A:934:LYS:C	4:A:937:VAL:H	2.15	0.54
4:A:1066:VAL:O	4:A:1066:VAL:CG1	2.49	0.54
4:A:1341:ILE:N	7:E:182:ASP:OD2	2.39	0.54
4:A:1354:ASN:HA	4:A:1357:ALA:HB3	1.90	0.54
4:A:1409:LEU:O	4:A:1412:ALA:HB3	2.07	0.54
5:B:273:LEU:HB2	5:B:276:ILE:CD1	2.37	0.54
5:B:276:ILE:O	5:B:277:LYS:C	2.50	0.54
5:B:609:ILE:HG22	5:B:610:ASN:N	2.21	0.54
5:B:638:PHE:CD2	5:B:653:VAL:HG21	2.43	0.54
5:B:709:ASP:CA	5:B:710:LEU:N	2.62	0.54
5:B:784:ASN:C	5:B:786:ASN:N	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:788:ARG:CB	5:B:788:ARG:NH1	2.39	0.54
5:B:1116:ARG:HG3	5:B:1198:TYR:CD2	2.43	0.54
5:B:1162:ILE:HA	5:B:1171:VAL:HG23	1.90	0.54
5:B:1180:PHE:O	5:B:1181:GLU:C	2.49	0.54
5:B:1199:ALA:O	5:B:1202:LEU:HB2	2.06	0.54
7:E:124:VAL:CG2	7:E:132:ILE:HG22	2.35	0.54
7:E:171:LYS:O	7:E:174:GLN:N	2.40	0.54
12:K:83:PRO:O	12:K:84:LYS:C	2.49	0.54
2:T:17:DG:H5'	4:A:836:TYR:CD1	2.43	0.54
4:A:33:ALA:O	4:A:83:HIS:HD2	1.89	0.54
4:A:125:ALA:C	4:A:125:ALA:CB	2.76	0.54
4:A:614:PHE:C	4:A:614:PHE:HD1	2.12	0.54
4:A:897:TYR:HB3	4:A:936:LEU:CD1	2.38	0.54
4:A:898:ARG:CG	4:A:898:ARG:HD2	2.21	0.54
4:A:901:LEU:HG	4:A:926:GLN:NE2	2.22	0.54
4:A:948:VAL:C	4:A:950:GLY:N	2.59	0.54
4:A:1172:LEU:CD2	4:A:1172:LEU:N	2.71	0.54
5:B:166:PHE:HE2	5:B:450:ALA:HB2	1.73	0.54
5:B:707:PRO:CD	5:B:708:GLU:H	2.20	0.54
5:B:733:HIS:C	5:B:733:HIS:N	2.57	0.54
5:B:1033:LYS:HG2	5:B:1034:VAL:N	2.22	0.54
5:B:1095:LEU:O	5:B:1096:ARG:C	2.49	0.54
5:B:1144:ALA:C	5:B:1146:PHE:N	2.63	0.54
7:E:20:LYS:HB3	7:E:35:VAL:HG23	1.88	0.54
7:E:37:LEU:O	7:E:37:LEU:CG	2.35	0.54
7:E:117:THR:C	7:E:119:SER:H	2.15	0.54
7:E:180:ARG:O	7:E:186:LEU:HD21	2.08	0.54
9:H:142:LEU:HD11	9:H:144:ILE:HD11	1.90	0.54
4:A:99:ILE:CG1	4:A:234:MET:SD	2.95	0.54
4:A:267:ALA:O	4:A:269:ILE:N	2.39	0.54
4:A:388:LEU:CD2	4:A:432:VAL:HG11	2.37	0.54
4:A:1036:ARG:C	4:A:1037:LEU:O	2.48	0.54
4:A:1044:TRP:O	4:A:1046:LEU:C	2.50	0.54
4:A:1161:THR:CG2	4:A:1163:ILE:N	2.28	0.54
4:A:1267:MET:O	4:A:1271:ILE:HB	2.07	0.54
5:B:98:THR:O	5:B:126:SER:CB	2.56	0.54
5:B:185:THR:CG2	5:B:188:ASP:CG	2.81	0.54
5:B:308:TRP:CG	5:B:309:GLN:N	2.75	0.54
5:B:942:ARG:O	5:B:944:THR:N	2.40	0.54
9:H:86:ASP:C	9:H:86:ASP:N	2.66	0.54
11:J:3:VAL:HG21	11:J:18:TRP:CB	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:J:57:ILE:CG2	11:J:57:ILE:C	2.79	0.54
4:A:230:ARG:HB2	4:A:233:TRP:CD2	2.43	0.54
4:A:359:LEU:HD23	4:A:360:GLU:N	2.23	0.54
4:A:563:PRO:HB2	4:A:565:ILE:O	2.08	0.54
4:A:927:VAL:CG2	4:A:927:VAL:HG13	2.31	0.54
4:A:978:PRO:C	4:A:979:SER:O	2.46	0.54
5:B:62:ILE:HD12	5:B:418:LYS:HE2	1.90	0.54
5:B:170:LEU:O	5:B:172:ILE:HG12	2.07	0.54
5:B:566:LEU:O	5:B:569:TYR:HB2	2.07	0.54
6:C:167:HIS:CG	6:C:168:ALA:N	2.74	0.54
6:C:246:ARG:O	6:C:247:GLY:C	2.48	0.54
9:H:79:TRP:C	9:H:80:ARG:O	2.44	0.54
4:A:211:PHE:C	4:A:213:HIS:N	2.66	0.54
4:A:274:ILE:HA	4:A:274:ILE:CG1	2.36	0.54
4:A:568:PRO:CB	6:C:221:TYR:CE1	2.91	0.54
4:A:740:LEU:HD23	4:A:740:LEU:N	2.22	0.54
4:A:967:ALA:C	4:A:969:GLN:N	2.65	0.54
5:B:276:ILE:HG22	5:B:277:LYS:N	2.19	0.54
5:B:280:ILE:CG2	5:B:285:ILE:HG12	2.26	0.54
5:B:486:TYR:HE2	5:B:778:MET:HG3	1.73	0.54
5:B:986:GLN:CG	5:B:986:GLN:NE2	2.67	0.54
5:B:1013:ASN:OD1	5:B:1015:HIS:N	2.30	0.54
5:B:1077:THR:HG23	5:B:1079:LYS:N	2.16	0.54
6:C:69:LEU:O	11:J:6:ARG:NH1	2.39	0.54
6:C:181:ASP:OD1	6:C:183:TRP:O	2.26	0.54
7:E:6:GLU:O	7:E:9:ILE:HG22	2.08	0.54
7:E:128:PRO:HD2	7:E:128:PRO:O	2.07	0.54
7:E:170:LEU:HD13	7:E:175:LEU:HD22	1.90	0.54
8:F:107:VAL:CG1	8:F:111:LEU:HD11	2.38	0.54
9:H:25:ARG:C	9:H:26:ILE:HD12	2.33	0.54
10:I:17:ARG:HG2	10:I:18:GLU:HB2	1.90	0.54
12:K:44:ASN:CA	12:K:61:TYR:HE2	2.21	0.54
1:R:8:G:C2'	1:R:9:G:H5'	2.36	0.54
4:A:254:GLU:O	5:B:918:ILE:CG1	2.56	0.54
4:A:525:GLN:O	4:A:526:ASP:C	2.47	0.54
4:A:579:SER:OG	4:A:612:ILE:HG23	2.07	0.54
4:A:826:ASP:O	4:A:830:LYS:N	2.39	0.54
4:A:947:PHE:CE2	4:A:954:TRP:CD2	2.96	0.54
5:B:104:GLU:HG3	13:L:54:ARG:NE	2.22	0.54
5:B:190:TYR:O	5:B:191:LYS:C	2.46	0.54
5:B:260:GLY:O	5:B:267:ARG:CD	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:273:LEU:O	5:B:274:PRO:O	2.26	0.54
5:B:355:ILE:CG2	5:B:356:LEU:HD21	2.36	0.54
5:B:423:LYS:C	5:B:425:THR:H	2.14	0.54
8:F:134:ILE:HG22	8:F:136:ARG:N	2.23	0.54
10:I:17:ARG:CG	10:I:18:GLU:N	2.49	0.54
4:A:91:PHE:HB2	4:A:297:GLN:OE1	2.07	0.54
4:A:131:SER:O	4:A:134:ARG:HB2	2.08	0.54
4:A:206:GLU:O	4:A:209:ASN:HB2	2.07	0.54
4:A:210:ILE:O	4:A:213:HIS:N	2.38	0.54
4:A:257:ARG:HB2	4:A:258:GLY:CA	2.38	0.54
4:A:349:ALA:N	5:B:1128:LEU:CD1	2.71	0.54
4:A:471:ASN:O	4:A:472:LEU:C	2.43	0.54
4:A:690:VAL:HG21	4:A:718:VAL:HG13	1.89	0.54
4:A:836:TYR:O	4:A:837:ILE:C	2.50	0.54
4:A:941:LYS:O	4:A:942:PHE:C	2.50	0.54
4:A:983:ILE:CG2	4:A:983:ILE:O	2.56	0.54
4:A:1141:THR:HG23	4:A:1205:LYS:CD	2.37	0.54
4:A:1436:ILE:CD1	5:B:1139:ILE:HG23	2.38	0.54
5:B:236:HIS:C	5:B:237:VAL:CG2	2.79	0.54
5:B:355:ILE:C	5:B:356:LEU:CD2	2.62	0.54
5:B:365:THR:HG23	5:B:367:LEU:H	1.73	0.54
5:B:784:ASN:C	5:B:786:ASN:H	2.15	0.54
5:B:906:SER:HB3	5:B:946:ASN:HB2	1.89	0.54
5:B:1056:SER:HB3	5:B:1066:SER:HB2	1.89	0.54
5:B:1080:LYS:HG3	6:C:180:TYR:CE2	2.43	0.54
6:C:117:ASP:OD1	6:C:117:ASP:N	2.41	0.54
6:C:186:LEU:HB3	6:C:188:HIS:HD2	1.72	0.54
7:E:32:GLN:C	7:E:33:GLU:C	2.76	0.54
7:E:214:CYS:SG	7:E:215:MET:N	2.80	0.54
10:I:6:PHE:CB	10:I:12:ASN:O	2.52	0.54
10:I:28:GLU:C	10:I:28:GLU:CD	2.76	0.54
12:K:92:ASN:C	12:K:94:ILE:H	2.16	0.54
13:L:29:TYR:CB	13:L:56:LEU:HD22	2.37	0.54
4:A:148:CYS:HB3	4:A:167:CYS:C	2.33	0.53
4:A:418:SER:O	4:A:421:ALA:HB3	2.07	0.53
4:A:513:SER:CB	4:A:514:PRO:HD2	2.37	0.53
4:A:935:GLN:HG3	4:A:935:GLN:O	1.71	0.53
5:B:30:SER:O	5:B:34:ILE:HD13	2.08	0.53
5:B:46:GLN:NE2	5:B:496:ARG:HG2	2.23	0.53
5:B:124:TYR:OH	5:B:179:CYS:CA	2.53	0.53
5:B:743:ILE:O	5:B:743:ILE:HG22	2.05	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:17:ARG:O	7:E:18:THR:C	2.51	0.53
7:E:156:LEU:HD21	7:E:197:LYS:HB2	1.89	0.53
11:J:31:ASP:C	11:J:33:GLY:H	2.14	0.53
12:K:49:GLU:CG	12:K:94:ILE:HD11	2.38	0.53
4:A:150:THR:CG2	4:A:150:THR:CA	2.81	0.53
4:A:179:LEU:HD12	4:A:297:GLN:CG	2.28	0.53
4:A:688:LYS:O	4:A:691:LEU:HB3	2.09	0.53
4:A:826:ASP:O	4:A:829:VAL:N	2.37	0.53
4:A:888:GLY:C	4:A:889:SER:O	2.51	0.53
4:A:996:ASN:ND2	4:A:996:ASN:N	2.46	0.53
4:A:1004:ASN:OD1	4:A:1004:ASN:O	2.26	0.53
4:A:1026:LEU:CD2	4:A:1026:LEU:CB	2.79	0.53
4:A:1237:ILE:CG2	4:A:1238:ILE:CA	2.69	0.53
4:A:1265:ASN:C	4:A:1267:MET:N	2.62	0.53
5:B:420:LEU:O	5:B:423:LYS:N	2.42	0.53
5:B:688:GLY:C	5:B:689:LEU:HG	2.23	0.53
6:C:116:LYS:H	6:C:141:GLY:H	1.55	0.53
9:H:47:PHE:CD2	9:H:95:TYR:CD1	2.94	0.53
9:H:135:LEU:CD2	9:H:135:LEU:CD1	2.83	0.53
10:I:25:LEU:C	10:I:26:LEU:HD23	2.33	0.53
4:A:7:SER:HB3	5:B:1193:GLN:HE21	1.65	0.53
4:A:65:LEU:CG	4:A:65:LEU:HB3	2.19	0.53
4:A:202:LEU:HD12	4:A:202:LEU:N	2.23	0.53
4:A:349:ALA:O	4:A:350:ARG:CB	2.46	0.53
4:A:927:VAL:CG1	4:A:927:VAL:C	2.80	0.53
4:A:947:PHE:CD2	4:A:954:TRP:CZ2	2.97	0.53
5:B:409:ALA:HA	5:B:412:LEU:HD12	1.89	0.53
5:B:916:THR:O	5:B:916:THR:HG22	2.08	0.53
5:B:1036:ALA:CB	5:B:1036:ALA:N	2.63	0.53
7:E:94:LYS:NZ	7:E:98:ILE:HD13	2.24	0.53
4:A:376:TYR:CE2	4:A:377:PRO:O	2.61	0.53
4:A:381:THR:CG2	4:A:383:TYR:HB2	2.39	0.53
4:A:537:ARG:C	4:A:539:THR:N	2.65	0.53
4:A:718:VAL:O	4:A:722:LEU:CD1	2.57	0.53
4:A:892:ALA:HB2	4:A:895:LYS:CD	2.39	0.53
4:A:1239:ARG:HH22	4:A:1241:ARG:HH22	1.56	0.53
4:A:1279:ILE:HD11	4:A:1312:ASN:H	1.72	0.53
5:B:170:LEU:HD12	5:B:171:PRO:CG	2.38	0.53
5:B:233:PRO:HG2	5:B:234:ILE:N	2.23	0.53
5:B:266:ALA:O	5:B:268:THR:HG22	2.08	0.53
5:B:293:PRO:HG2	5:B:296:GLU:CB	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:435:THR:HG22	5:B:437:GLU:C	2.33	0.53
5:B:452:THR:HG22	5:B:453:ILE:N	2.23	0.53
5:B:744:HIS:CE1	5:B:745:PRO:HD3	2.42	0.53
5:B:1006:ILE:CD1	11:J:45:CYS:SG	2.96	0.53
5:B:1171:VAL:CG1	5:B:1172:ILE:N	2.71	0.53
6:C:27:LEU:O	6:C:28:ALA:C	2.50	0.53
6:C:134:ILE:O	6:C:134:ILE:HG22	2.08	0.53
3:N:2:DT:C2	3:N:3:DG:O6	2.62	0.53
4:A:237:THR:CB	4:A:237:THR:N	2.64	0.53
4:A:286:HIS:CB	4:A:286:HIS:N	2.67	0.53
4:A:327:ALA:CB	4:A:327:ALA:C	2.76	0.53
4:A:414:ASP:OD1	4:A:416:ARG:N	2.35	0.53
4:A:681:GLU:HA	4:A:684:ALA:HB3	1.91	0.53
4:A:775:ILE:HB	4:A:797:LYS:O	2.08	0.53
4:A:1312:ASN:O	4:A:1316:VAL:HG23	2.08	0.53
5:B:555:ILE:HD12	5:B:587:HIS:CE1	2.44	0.53
5:B:640:VAL:HG23	5:B:740:HIS:HA	1.90	0.53
5:B:652:LYS:C	5:B:653:VAL:O	2.47	0.53
5:B:759:PRO:HD2	5:B:760:ASP:N	2.23	0.53
5:B:942:ARG:O	5:B:943:SER:C	2.51	0.53
5:B:1138:MET:O	5:B:1141:HIS:HB2	2.08	0.53
5:B:1158:PHE:CD1	5:B:1159:ARG:N	2.77	0.53
5:B:1159:ARG:HG2	5:B:1160:VAL:N	2.23	0.53
5:B:1165:ILE:HG22	5:B:1166:CYS:H	1.71	0.53
5:B:1202:LEU:O	5:B:1205:GLN:N	2.41	0.53
7:E:14:ARG:NH2	7:E:141:VAL:CG1	2.72	0.53
7:E:170:LEU:HD13	7:E:175:LEU:HD23	1.91	0.53
9:H:84:ALA:C	9:H:86:ASP:H	2.15	0.53
10:I:36:GLU:CG	10:I:36:GLU:HB2	2.19	0.53
12:K:87:LEU:C	12:K:90:ALA:CB	2.82	0.53
4:A:68:GLN:HE22	4:A:70:CYS:CB	2.21	0.53
4:A:899:VAL:CG2	4:A:1029:ARG:CZ	2.87	0.53
4:A:1136:SER:CB	4:A:1206:ASP:OD2	2.57	0.53
5:B:488:TYR:CE2	5:B:813:LYS:HB2	2.43	0.53
5:B:600:LEU:HB3	5:B:615:MET:HE1	1.90	0.53
5:B:752:ALA:O	5:B:754:SER:N	2.40	0.53
5:B:1065:GLN:HE21	5:B:1065:GLN:C	2.16	0.53
6:C:11:ARG:HE	6:C:21:ILE:CD1	2.18	0.53
6:C:206:ASN:CG	6:C:229:TYR:HD2	2.16	0.53
7:E:32:GLN:O	7:E:33:GLU:C	2.51	0.53
9:H:33:GLN:O	9:H:35:GLN:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:I:28:GLU:O	10:I:28:GLU:CD	2.50	0.53
10:I:115:LYS:O	10:I:116:ASN:C	2.52	0.53
12:K:29:ASN:CB	12:K:77:THR:O	2.56	0.53
12:K:30:ALA:HB2	12:K:76:GLN:HB2	1.89	0.53
4:A:248:PRO:O	4:A:260:ASP:OD2	2.26	0.53
4:A:262:LEU:O	4:A:266:LEU:N	2.40	0.53
4:A:340:LEU:HD22	4:A:1429:ILE:HG23	1.91	0.53
4:A:667:GLY:C	4:A:669:THR:N	2.66	0.53
4:A:845:LEU:O	4:A:846:GLU:C	2.51	0.53
4:A:1100:ARG:CZ	4:A:1104:ILE:HD11	2.39	0.53
4:A:1100:ARG:NH2	4:A:1351:GLU:HG2	2.23	0.53
4:A:1144:LYS:HD2	4:A:1269:GLU:OE2	2.08	0.53
4:A:1412:ALA:HA	4:A:1417:GLU:OE2	2.09	0.53
5:B:695:ALA:CB	5:B:696:GLU:H	2.21	0.53
5:B:1016:ALA:O	5:B:1017:ILE:CG1	2.52	0.53
5:B:1024:ALA:O	5:B:1027:ILE:N	2.42	0.53
7:E:24:LYS:HG2	7:E:25:ASP:N	2.23	0.53
7:E:196:VAL:N	7:E:212:ARG:O	2.42	0.53
9:H:145:ARG:HD2	9:H:146:ARG:HE	1.73	0.53
10:I:113:ASP:C	10:I:113:ASP:OD1	2.49	0.53
12:K:37:LYS:HA	12:K:69:ALA:O	2.09	0.53
4:A:434:ARG:C	4:A:435:HIS:O	2.47	0.53
4:A:444:PHE:HE2	4:A:470:LEU:HD22	1.68	0.53
4:A:493:GLN:NE2	4:A:493:GLN:CA	2.72	0.53
4:A:562:THR:CG2	4:A:563:PRO:HD3	2.38	0.53
4:A:944:ARG:HG2	4:A:1298:TYR:HH	1.68	0.53
4:A:1139:GLU:O	4:A:1140:HIS:O	2.27	0.53
4:A:1173:HIS:CA	4:A:1174:PHE:N	2.65	0.53
4:A:1300:LYS:CD	4:A:1300:LYS:HE2	2.20	0.53
5:B:800:GLN:HG3	11:J:52:THR:HG22	1.89	0.53
5:B:956:THR:HA	5:B:963:PHE:HB2	1.90	0.53
5:B:1030:LEU:HD23	5:B:1055:ILE:HG22	1.91	0.53
5:B:1096:ARG:CG	5:B:1096:ARG:HH11	2.21	0.53
5:B:1191:ILE:O	5:B:1192:TYR:CG	2.62	0.53
5:B:1202:LEU:C	5:B:1204:PHE:N	2.62	0.53
7:E:211:TYR:N	7:E:211:TYR:CD1	2.76	0.53
8:F:117:PRO:O	8:F:118:LEU:C	2.51	0.53
10:I:20:LYS:HB2	10:I:21:GLU:HG3	1.89	0.53
10:I:116:ASN:HD22	10:I:118:ARG:NH2	2.07	0.53
4:A:17:VAL:HG22	5:B:1216:LEU:CD2	2.39	0.53
4:A:55:ASP:OD2	4:A:55:ASP:C	2.45	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:199:LEU:O	4:A:201:VAL:HG22	2.09	0.53
4:A:630:ILE:N	4:A:630:ILE:CD1	2.71	0.53
5:B:34:ILE:HD11	5:B:743:ILE:CG2	2.39	0.53
5:B:205:ILE:HG22	5:B:205:ILE:O	2.08	0.53
5:B:423:LYS:NZ	5:B:423:LYS:HG3	2.23	0.53
5:B:431:TYR:CE1	5:B:447:ALA:CB	2.78	0.53
5:B:773:MET:C	5:B:775:LYS:N	2.67	0.53
6:C:62:PHE:C	6:C:62:PHE:CD2	2.83	0.53
6:C:206:ASN:ND2	6:C:229:TYR:CG	2.76	0.53
6:C:249:ASP:O	6:C:253:LYS:N	2.42	0.53
7:E:14:ARG:CZ	7:E:141:VAL:HG12	2.38	0.53
7:E:82:PHE:CD1	7:E:82:PHE:N	2.77	0.53
7:E:204:THR:CG2	7:E:205:SER:CB	2.87	0.53
11:J:3:VAL:CA	11:J:53:HIS:NE2	2.71	0.53
4:A:130:ASP:O	4:A:132:LYS:N	2.41	0.53
4:A:415:LEU:N	4:A:415:LEU:HD23	2.24	0.53
4:A:549:MET:SD	4:A:577:ILE:HD13	2.48	0.53
4:A:565:ILE:HG23	4:A:567:LYS:HG2	1.91	0.53
4:A:607:ILE:CG2	4:A:607:ILE:C	2.81	0.53
4:A:868:TYR:CE2	4:A:1366:ARG:CD	2.91	0.53
4:A:1273:LEU:O	4:A:1274:ARG:HB3	2.09	0.53
4:A:1412:ALA:HA	4:A:1417:GLU:CG	2.40	0.53
5:B:186:GLU:O	5:B:189:LEU:N	2.37	0.53
5:B:265:SER:O	5:B:266:ALA:HB3	2.08	0.53
5:B:786:ASN:CG	5:B:786:ASN:CA	2.76	0.53
5:B:1064:TYR:O	5:B:1065:GLN:C	2.50	0.53
6:C:38:ILE:O	6:C:38:ILE:HG22	2.02	0.53
7:E:116:ILE:O	7:E:118:PRO:HD2	2.07	0.53
10:I:29:CYS:CA	10:I:29:CYS:HB2	2.20	0.53
11:J:44:TYR:O	11:J:48:ARG:HB3	2.08	0.53
12:K:7:PHE:CA	12:K:10:PHE:CZ	2.91	0.53
4:A:57:ARG:O	4:A:68:GLN:HG3	2.09	0.52
4:A:84:ILE:CG2	4:A:241:VAL:CG2	2.87	0.52
4:A:207:ILE:O	4:A:210:ILE:HG13	2.09	0.52
4:A:376:TYR:CD2	4:A:376:TYR:O	2.63	0.52
4:A:964:ILE:HD11	4:A:1037:LEU:HD11	1.91	0.52
4:A:1131:ALA:HA	4:A:1134:ILE:HD11	1.91	0.52
4:A:1362:TYR:CE1	4:A:1363:VAL:O	2.62	0.52
5:B:477:ALA:CB	5:B:479:VAL:HA	2.36	0.52
5:B:654:ARG:O	5:B:655:LYS:C	2.50	0.52
7:E:85:GLU:HB3	7:E:87:SER:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:204:THR:CG2	7:E:205:SER:HB3	2.39	0.52
9:H:40:LEU:HD13	9:H:123:MET:HE3	1.90	0.52
9:H:45:GLU:CG	9:H:45:GLU:OE2	2.52	0.52
9:H:86:ASP:C	9:H:86:ASP:CB	2.79	0.52
10:I:70:ARG:HG2	10:I:84:VAL:HG23	1.91	0.52
2:T:18:DA:C2'	2:T:19:DT:C6	2.93	0.52
4:A:71:GLN:C	4:A:73:GLY:N	2.66	0.52
4:A:246:VAL:O	4:A:246:VAL:HG12	2.06	0.52
4:A:276:LEU:HD13	4:A:292:ALA:O	2.07	0.52
4:A:726:ARG:HG2	4:A:727:ASP:OD1	2.10	0.52
4:A:1331:SER:OG	4:A:1331:SER:O	2.25	0.52
4:A:1362:TYR:HE1	4:A:1363:VAL:O	1.93	0.52
4:A:1370:LEU:O	4:A:1374:VAL:HG23	2.09	0.52
5:B:431:TYR:CG	5:B:447:ALA:CB	2.93	0.52
5:B:1071:VAL:HG12	5:B:1072:MET:N	2.20	0.52
5:B:1084:GLN:HG2	6:C:201:TRP:CH2	2.43	0.52
5:B:1103:ILE:CD1	5:B:1103:ILE:N	2.59	0.52
5:B:1130:PHE:HZ	5:B:1138:MET:HG2	1.75	0.52
6:C:227:THR:HG22	6:C:229:TYR:CE1	2.44	0.52
1:R:5:A:H2'	1:R:6:G:H8	1.70	0.52
4:A:51:GLY:HA2	4:A:56:PRO:CG	2.39	0.52
4:A:518:LYS:CG	4:A:519:PRO:HD2	2.39	0.52
4:A:1050:GLU:O	4:A:1051:ALA:C	2.52	0.52
4:A:1072:ILE:O	4:A:1075:PRO:HD2	2.08	0.52
4:A:1134:ILE:HG22	4:A:1138:ILE:CD1	2.38	0.52
5:B:56:ASP:C	5:B:57:TYR:HD1	2.17	0.52
5:B:114:PRO:CG	5:B:181:LEU:HD11	2.38	0.52
5:B:416:LEU:O	5:B:417:PHE:C	2.45	0.52
5:B:566:LEU:O	5:B:567:GLU:C	2.52	0.52
5:B:658:ILE:CA	5:B:661:LEU:HD12	2.21	0.52
6:C:63:ILE:O	6:C:64:ALA:C	2.52	0.52
7:E:15:ALA:O	7:E:19:VAL:CG2	2.57	0.52
9:H:76:THR:C	9:H:77:ARG:O	2.52	0.52
9:H:84:ALA:C	9:H:86:ASP:N	2.67	0.52
12:K:7:PHE:HA	12:K:10:PHE:CE2	2.44	0.52
12:K:57:LEU:CD2	12:K:57:LEU:CB	2.84	0.52
4:A:11:LEU:C	4:A:12:ARG:HG3	2.34	0.52
4:A:153:PRO:C	4:A:153:PRO:HA	2.18	0.52
4:A:321:PRO:CD	4:A:322:VAL:CG1	2.79	0.52
4:A:399:HIS:C	4:A:401:GLY:N	2.63	0.52
4:A:685:GLU:O	4:A:686:ALA:C	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:783:THR:HG22	4:A:784:LEU:HG	1.90	0.52
4:A:800:VAL:HA	4:A:812:GLU:HG2	1.92	0.52
4:A:993:LEU:C	4:A:995:GLU:N	2.66	0.52
4:A:1027:ALA:O	4:A:1028:THR:C	2.51	0.52
4:A:1127:ASP:C	4:A:1129:GLU:N	2.64	0.52
4:A:1353:TYR:O	4:A:1355:VAL:N	2.43	0.52
4:A:1353:TYR:O	4:A:1356:ILE:N	2.43	0.52
4:A:1409:LEU:HD13	5:B:1207:LEU:HD21	1.89	0.52
4:A:1444:MET:C	4:A:1445:ILE:HG13	2.34	0.52
5:B:466:TRP:C	5:B:475:SER:CB	2.78	0.52
5:B:555:ILE:O	5:B:558:LEU:HB2	2.10	0.52
5:B:759:PRO:HD2	5:B:760:ASP:H	1.73	0.52
5:B:987:LYS:HE3	16:B:1308:ATP:O3G	2.10	0.52
5:B:1006:ILE:HG23	5:B:1007:VAL:N	2.25	0.52
7:E:147:HIS:O	7:E:149:LEU:N	2.43	0.52
8:F:155:LEU:CD2	8:F:155:LEU:CD1	2.85	0.52
9:H:49:VAL:HG13	9:H:50:ALA:N	2.24	0.52
12:K:83:PRO:O	12:K:86:ALA:CB	2.57	0.52
4:A:893:PHE:CZ	4:A:937:VAL:HG22	2.43	0.52
4:A:1352:VAL:O	4:A:1353:TYR:C	2.51	0.52
5:B:250:PHE:C	5:B:250:PHE:N	2.66	0.52
5:B:315:LYS:CA	5:B:315:LYS:HB2	2.19	0.52
5:B:612:GLU:O	5:B:613:VAL:C	2.50	0.52
5:B:816:GLU:N	5:B:816:GLU:CD	2.68	0.52
5:B:1102:LYS:HB2	5:B:1103:ILE:CD1	2.38	0.52
5:B:1135:ARG:HG2	5:B:1139:ILE:HD11	1.92	0.52
6:C:66:ARG:HB3	11:J:5:VAL:HG21	1.92	0.52
6:C:184:ASN:O	6:C:185:LYS:C	2.49	0.52
10:I:59:VAL:O	10:I:62:ILE:N	2.34	0.52
13:L:60:ARG:CG	13:L:61:THR:N	2.72	0.52
4:A:87:ALA:CB	4:A:87:ALA:N	2.69	0.52
4:A:239:LEU:O	4:A:240:PRO:O	2.27	0.52
4:A:261:ASP:CG	4:A:323:LYS:CD	2.71	0.52
4:A:267:ALA:O	4:A:268:ASP:C	2.52	0.52
4:A:334:GLY:O	4:A:335:ARG:C	2.53	0.52
4:A:855:THR:HG23	4:A:857:ARG:HG3	1.91	0.52
4:A:1079:MET:HB3	4:A:1359:ASP:OD2	2.10	0.52
4:A:1137:ALA:HB3	4:A:1138:ILE:HD13	1.92	0.52
4:A:1305:VAL:HG12	4:A:1306:LEU:N	2.23	0.52
4:A:1436:ILE:C	4:A:1439:GLY:H	2.07	0.52
5:B:315:LYS:CA	5:B:315:LYS:HB3	2.19	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:634:TYR:C	5:B:634:TYR:CD1	2.88	0.52
5:B:662:MET:C	5:B:664:THR:H	2.18	0.52
6:C:171:GLY:C	6:C:173:ALA:H	2.16	0.52
8:F:109:VAL:CG2	8:F:124:GLU:HG2	2.39	0.52
9:H:95:TYR:OH	9:H:97:MET:SD	2.57	0.52
12:K:32:VAL:O	12:K:32:VAL:CG1	2.57	0.52
3:N:2:DT:O3'	3:N:3:DG:P	2.67	0.52
4:A:718:VAL:O	4:A:721:PHE:N	2.43	0.52
4:A:803:SER:C	4:A:805:LEU:N	2.64	0.52
4:A:850:VAL:HG22	4:A:868:TYR:HB2	1.92	0.52
4:A:1156:PRO:CG	4:A:1157:ASP:N	2.72	0.52
5:B:24:PRO:O	5:B:24:PRO:HG2	2.08	0.52
6:C:178:PHE:C	6:C:178:PHE:CD2	2.86	0.52
6:C:191:TYR:HB3	6:C:201:TRP:HE1	1.74	0.52
7:E:23:VAL:CG1	7:E:28:TYR:HD1	2.22	0.52
7:E:117:THR:C	7:E:117:THR:N	2.63	0.52
9:H:38:LEU:CD1	9:H:38:LEU:CB	2.83	0.52
9:H:95:TYR:HE2	9:H:97:MET:CG	2.21	0.52
10:I:27:PHE:O	10:I:28:GLU:CB	2.50	0.52
10:I:60:GLN:HE22	10:I:107:SER:HB2	1.75	0.52
4:A:241:VAL:CG1	4:A:242:PRO:HD2	2.40	0.52
4:A:441:PRO:C	4:A:442:VAL:HG13	2.35	0.52
4:A:512:VAL:HA	4:A:519:PRO:HA	1.92	0.52
4:A:729:ALA:O	4:A:730:GLY:C	2.53	0.52
4:A:1076:ALA:HA	4:A:1079:MET:CE	2.35	0.52
4:A:1159:ARG:O	4:A:1160:SER:CB	2.50	0.52
5:B:112:LEU:O	5:B:180:TYR:HE1	1.93	0.52
5:B:245:GLU:OE1	5:B:551:PRO:HG2	2.10	0.52
5:B:556:THR:HG22	5:B:557:PHE:H	1.75	0.52
5:B:646:LEU:HD11	5:B:646:LEU:HD21	1.90	0.52
5:B:660:LYS:O	5:B:663:ALA:HB2	2.01	0.52
5:B:853:SER:O	5:B:854:LEU:HD23	2.10	0.52
6:C:196:ASP:HB3	6:C:199:LYS:H	1.74	0.52
6:C:260:LEU:HD12	6:C:264:GLN:HG2	1.92	0.52
7:E:179:GLN:HB3	7:E:182:ASP:HB2	1.92	0.52
7:E:181:ALA:O	7:E:186:LEU:HD11	2.10	0.52
8:F:144:GLU:O	8:F:146:TRP:HD1	1.91	0.52
9:H:56:THR:C	9:H:57:VAL:HG23	2.34	0.52
10:I:55:THR:HG23	10:I:58:VAL:HG23	1.89	0.52
4:A:18:GLN:O	4:A:19:PHE:O	2.27	0.52
4:A:135:PHE:CD1	4:A:222:LEU:CB	2.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:348:SER:O	4:A:349:ALA:HB2	2.09	0.52
4:A:550:LEU:HB3	4:A:556:TRP:CE2	2.45	0.52
4:A:557:ASP:HA	12:K:26:LYS:HE3	1.90	0.52
4:A:634:THR:O	4:A:634:THR:HG22	2.08	0.52
4:A:760:GLN:OE1	5:B:1021:MET:HE1	2.10	0.52
4:A:873:MET:HE1	4:A:1053:PHE:CZ	2.44	0.52
4:A:938:LYS:CD	4:A:938:LYS:HE2	2.18	0.52
4:A:1053:PHE:O	4:A:1054:LEU:C	2.45	0.52
4:A:1325:THR:CG2	4:A:1326:ARG:CG	2.88	0.52
4:A:1398:MET:O	4:A:1399:ARG:C	2.52	0.52
5:B:200:GLY:HA2	5:B:202:TYR:HE2	1.72	0.52
5:B:521:LEU:HD23	5:B:635:ARG:HD3	1.92	0.52
5:B:704:ALA:HB1	5:B:710:LEU:HD12	1.91	0.52
5:B:893:LEU:HD22	5:B:897:GLY:HA2	1.92	0.52
5:B:1147:LEU:HD22	5:B:1151:LEU:HD22	1.92	0.52
6:C:57:VAL:HB	11:J:57:ILE:HD11	1.92	0.52
6:C:143:LEU:C	6:C:143:LEU:CD1	2.72	0.52
7:E:157:SER:O	7:E:160:GLU:N	2.43	0.52
7:E:165:LEU:N	7:E:165:LEU:CD2	2.67	0.52
9:H:82:PRO:CB	9:H:82:PRO:C	2.78	0.52
11:J:64:ASN:HB3	11:J:65:PRO:CD	2.40	0.52
12:K:59:ALA:HA	12:K:74:ARG:O	2.10	0.52
12:K:78:THR:HG23	12:K:79:GLU:N	2.24	0.52
4:A:670:ILE:O	4:A:671:ALA:HB2	2.10	0.52
4:A:889:SER:HB2	4:A:892:ALA:N	2.19	0.52
4:A:1127:ASP:CB	4:A:1130:GLN:H	2.23	0.52
4:A:1209:MET:O	4:A:1212:VAL:CB	2.53	0.52
4:A:1213:GLY:HA2	4:A:1216:ILE:HD12	1.92	0.52
4:A:1385:THR:CG2	4:A:1385:THR:HB	2.18	0.52
5:B:34:ILE:HD13	5:B:34:ILE:H	1.72	0.52
5:B:308:TRP:CZ3	10:I:45:ARG:HB3	2.45	0.52
5:B:310:MET:CE	5:B:310:MET:CB	2.88	0.52
5:B:642:ASP:OD1	5:B:642:ASP:N	2.43	0.52
5:B:658:ILE:HA	5:B:661:LEU:CD1	2.22	0.52
8:F:128:LYS:HD2	8:F:148:VAL:O	2.09	0.52
9:H:22:LYS:O	9:H:23:VAL:HG23	2.10	0.52
9:H:34:ASP:CB	9:H:34:ASP:N	2.64	0.52
9:H:76:THR:HG23	9:H:77:ARG:HH22	1.75	0.52
9:H:142:LEU:HD12	9:H:142:LEU:C	2.23	0.52
10:I:29:CYS:CB	10:I:29:CYS:N	2.70	0.52
10:I:34:TYR:HE2	10:I:36:GLU:HG2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:68:GLN:OE1	4:A:70:CYS:HB2	2.10	0.51
4:A:91:PHE:CB	4:A:297:GLN:OE1	2.58	0.51
4:A:247:ARG:HH11	4:A:263:THR:CG2	2.18	0.51
4:A:269:ILE:O	4:A:270:LEU:C	2.42	0.51
4:A:287:HIS:O	4:A:288:ALA:HB2	2.09	0.51
4:A:500:GLU:OE1	5:B:1145:SER:N	2.42	0.51
4:A:655:PHE:O	4:A:656:TRP:C	2.52	0.51
4:A:709:THR:C	4:A:711:ARG:N	2.65	0.51
4:A:833:GLU:O	4:A:834:THR:C	2.49	0.51
4:A:901:LEU:HD22	4:A:907:THR:HG21	1.84	0.51
4:A:1148:ILE:HD11	4:A:1198:ASP:HB2	1.92	0.51
4:A:1225:PHE:O	4:A:1226:VAL:CG2	2.57	0.51
4:A:1305:VAL:CG1	4:A:1306:LEU:N	2.72	0.51
5:B:51:PHE:O	5:B:52:ASN:C	2.49	0.51
5:B:1102:LYS:C	5:B:1103:ILE:HD13	2.35	0.51
5:B:1106:ARG:NH2	5:B:1109:GLY:N	2.51	0.51
6:C:31:ASN:O	6:C:32:SER:C	2.47	0.51
6:C:79:GLN:HE21	6:C:127:ARG:HB3	1.75	0.51
6:C:180:TYR:O	6:C:181:ASP:CB	2.55	0.51
9:H:89:LEU:C	9:H:91:ASP:N	2.68	0.51
9:H:104:PHE:CE2	9:H:136:LYS:HA	2.44	0.51
9:H:109:LYS:HB3	9:H:110:ASP:CB	2.40	0.51
10:I:26:LEU:HD21	10:I:36:GLU:O	2.04	0.51
2:T:20:DC:H4'	4:A:447:GLN:HE22	1.68	0.51
4:A:13:THR:CG2	4:A:15:LYS:HE3	2.40	0.51
4:A:167:CYS:C	4:A:169:ASN:ND2	2.68	0.51
4:A:982:THR:OG1	4:A:985:ASP:CG	2.52	0.51
4:A:1094:VAL:HG12	4:A:1095:THR:N	2.26	0.51
4:A:1146:VAL:CG1	4:A:1201:ALA:HB3	2.41	0.51
4:A:1200:ALA:C	4:A:1202:MET:H	2.15	0.51
5:B:34:ILE:HD12	5:B:743:ILE:HG21	1.92	0.51
5:B:59:LEU:HD21	5:B:95:ILE:HD13	1.91	0.51
5:B:565:PRO:O	5:B:565:PRO:CD	2.54	0.51
5:B:707:PRO:CG	5:B:708:GLU:N	2.72	0.51
6:C:240:VAL:O	6:C:243:VAL:N	2.43	0.51
8:F:96:THR:HG22	8:F:96:THR:O	2.09	0.51
9:H:103:LYS:N	9:H:115:TYR:HB2	2.20	0.51
10:I:17:ARG:O	10:I:26:LEU:N	2.43	0.51
11:J:5:VAL:HG12	11:J:6:ARG:N	2.24	0.51
13:L:60:ARG:CG	13:L:61:THR:H	2.23	0.51
1:R:5:A:N1	1:R:6:G:C5	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:73:GLY:O	4:A:74:MET:C	2.47	0.51
4:A:235:ILE:N	4:A:235:ILE:HD12	2.25	0.51
4:A:391:LEU:O	4:A:394:ASN:N	2.43	0.51
4:A:470:LEU:C	4:A:470:LEU:HD12	2.36	0.51
4:A:607:ILE:CG2	4:A:607:ILE:CG1	2.78	0.51
4:A:639:PRO:O	4:A:640:GLN:C	2.47	0.51
4:A:699:ALA:C	4:A:701:LEU:H	2.19	0.51
4:A:849:MET:HG3	4:A:849:MET:O	2.10	0.51
4:A:1017:LEU:HB3	7:E:205:SER:HA	1.93	0.51
4:A:1067:LEU:CD2	4:A:1367:HIS:CE1	2.86	0.51
4:A:1331:SER:HG	4:A:1333:ILE:CG2	2.10	0.51
4:A:1343:ALA:O	4:A:1344:GLY:C	2.50	0.51
5:B:644:GLU:O	5:B:645:SER:O	2.28	0.51
5:B:866:TYR:CG	5:B:866:TYR:HB3	2.24	0.51
5:B:953:LEU:O	5:B:964:VAL:HA	2.11	0.51
5:B:964:VAL:O	5:B:964:VAL:HG12	1.63	0.51
5:B:1023:VAL:O	5:B:1024:ALA:C	2.49	0.51
6:C:57:VAL:C	6:C:58:LEU:HD23	2.32	0.51
6:C:205:LYS:CD	6:C:205:LYS:HE2	2.17	0.51
6:C:244:VAL:O	6:C:248:ILE:HG13	2.11	0.51
7:E:79:TRP:C	7:E:80:VAL:O	2.41	0.51
8:F:93:ILE:HD11	8:F:134:ILE:HD11	1.92	0.51
10:I:17:ARG:O	10:I:25:LEU:CD1	2.48	0.51
10:I:77:LYS:CD	10:I:77:LYS:HE2	2.18	0.51
4:A:8:SER:C	4:A:9:ALA:O	2.52	0.51
4:A:100:LYS:NZ	4:A:100:LYS:CB	2.72	0.51
4:A:326:ARG:HE	4:A:1406:VAL:HG11	1.75	0.51
4:A:434:ARG:O	4:A:435:HIS:C	2.50	0.51
4:A:556:TRP:CD1	4:A:556:TRP:C	2.79	0.51
4:A:670:ILE:HD13	4:A:805:LEU:HD21	1.92	0.51
4:A:815:PHE:O	4:A:818:MET:N	2.43	0.51
4:A:1074:GLU:O	4:A:1078:GLN:HG2	2.09	0.51
4:A:1074:GLU:CB	4:A:1075:PRO:CD	2.85	0.51
4:A:1228:TRP:HA	4:A:1237:ILE:O	2.10	0.51
4:A:1345:ARG:O	4:A:1346:ALA:C	2.47	0.51
4:A:1399:ARG:NH2	4:A:1417:GLU:OE1	2.43	0.51
5:B:45:SER:O	5:B:47:GLN:N	2.43	0.51
5:B:428:ILE:O	5:B:432:MET:HE2	2.11	0.51
5:B:502:ILE:C	5:B:502:ILE:HG22	2.35	0.51
5:B:620:ARG:NH2	10:I:89:GLN:NE2	2.59	0.51
5:B:984:HIS:CD2	5:B:1025:HIS:N	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:65:THR:C	7:E:67:GLU:H	2.16	0.51
12:K:39:ASP:O	12:K:40:HIS:C	2.49	0.51
4:A:783:THR:O	4:A:784:LEU:HD23	2.10	0.51
4:A:825:ILE:O	4:A:826:ASP:C	2.49	0.51
4:A:1441:PHE:CZ	8:F:88:TYR:C	2.89	0.51
5:B:195:CYS:SG	5:B:196:PRO:HD2	2.50	0.51
5:B:247:GLY:O	5:B:248:SER:CB	2.58	0.51
5:B:275:TYR:CG	5:B:275:TYR:HB2	2.25	0.51
5:B:333:PHE:O	5:B:333:PHE:HD1	1.91	0.51
5:B:475:SER:C	5:B:477:ALA:N	2.67	0.51
5:B:580:VAL:HG12	5:B:580:VAL:O	1.93	0.51
5:B:878:GLN:O	5:B:879:ARG:CG	2.58	0.51
7:E:7:ARG:C	7:E:9:ILE:N	2.68	0.51
8:F:101:ILE:CG2	8:F:120:ILE:HG21	2.39	0.51
8:F:109:VAL:HG22	8:F:124:GLU:HG2	1.92	0.51
10:I:15:TYR:CB	10:I:16:PRO:CD	2.84	0.51
11:J:5:VAL:HG12	11:J:6:ARG:HG3	1.91	0.51
4:A:302:THR:CB	4:A:313:GLN:HE22	2.23	0.51
4:A:388:LEU:CD2	4:A:388:LEU:C	2.82	0.51
4:A:474:VAL:HG22	4:A:474:VAL:O	2.09	0.51
4:A:606:LEU:HD22	4:A:614:PHE:CE2	2.46	0.51
4:A:648:ASN:N	4:A:648:ASN:OD1	2.42	0.51
4:A:928:LEU:O	4:A:930:ASP:N	2.44	0.51
4:A:1327:ILE:O	4:A:1327:ILE:CG2	2.59	0.51
4:A:1338:VAL:HG12	4:A:1339:LEU:HD23	1.92	0.51
4:A:1351:GLU:O	4:A:1352:VAL:C	2.53	0.51
4:A:1383:SER:OG	4:A:1388:GLY:HA3	2.11	0.51
5:B:174:LEU:HD22	5:B:204:ILE:CD1	2.22	0.51
5:B:247:GLY:O	5:B:248:SER:HB2	2.11	0.51
5:B:254:LEU:HD22	5:B:361:LEU:CD1	2.22	0.51
7:E:33:GLU:C	7:E:33:GLU:CB	2.79	0.51
9:H:56:THR:CG2	9:H:57:VAL:N	2.73	0.51
2:T:20:DC:C4'	4:A:447:GLN:NE2	2.64	0.51
4:A:23:SER:HB2	4:A:25:GLU:HB2	1.91	0.51
4:A:250:ILE:CA	4:A:250:ILE:CG2	2.83	0.51
4:A:513:SER:O	4:A:513:SER:OG	2.23	0.51
4:A:800:VAL:CG1	4:A:801:GLU:N	2.70	0.51
4:A:878:ILE:CG2	4:A:879:GLU:N	2.67	0.51
4:A:1335:ILE:O	4:A:1336:MET:C	2.50	0.51
5:B:258:LEU:HB2	5:B:385:LEU:HD21	1.92	0.51
5:B:329:THR:O	5:B:332:ASP:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:1084:GLN:NE2	6:C:191:TYR:C	2.69	0.51
6:C:46:ILE:HA	6:C:159:ALA:HA	1.92	0.51
7:E:13:TRP:O	7:E:16:PHE:CB	2.57	0.51
9:H:47:PHE:CE1	9:H:48:PRO:O	2.64	0.51
9:H:93:TYR:CE1	9:H:143:LEU:HD13	2.46	0.51
4:A:35:ILE:O	4:A:35:ILE:CG2	2.57	0.51
4:A:506:ALA:O	4:A:508:PRO:HD2	2.10	0.51
4:A:889:SER:HB3	4:A:891:ALA:CB	2.32	0.51
4:A:1081:LEU:CD2	4:A:1081:LEU:CD1	2.85	0.51
4:A:1265:ASN:O	4:A:1266:THR:C	2.49	0.51
4:A:1285:MET:CE	4:A:1285:MET:SD	2.99	0.51
5:B:402:GLY:HA2	5:B:695:ALA:CB	2.41	0.51
5:B:436:VAL:C	5:B:436:VAL:N	2.64	0.51
5:B:660:LYS:CA	5:B:663:ALA:HB2	2.41	0.51
5:B:816:GLU:N	5:B:818:PRO:HD3	2.26	0.51
5:B:864:LYS:H	5:B:872:GLU:CD	2.09	0.51
5:B:910:VAL:CG1	5:B:910:VAL:HB	2.20	0.51
5:B:1158:PHE:CE2	5:B:1160:VAL:HG22	2.46	0.51
6:C:174:ALA:O	6:C:175:ALA:HB2	2.10	0.51
7:E:173:SER:C	7:E:175:LEU:N	2.68	0.51
10:I:98:VAL:HG12	10:I:99:LEU:N	2.26	0.51
4:A:84:ILE:HG22	4:A:241:VAL:HG23	1.93	0.51
4:A:95:PHE:O	4:A:96:ILE:O	2.27	0.51
4:A:139:TRP:O	4:A:142:CYS:N	2.43	0.51
4:A:230:ARG:O	4:A:231:PRO:C	2.52	0.51
4:A:237:THR:CG2	4:A:237:THR:HB	2.21	0.51
4:A:268:ASP:HB3	4:A:299:HIS:CG	2.46	0.51
4:A:526:ASP:O	4:A:528:LEU:N	2.44	0.51
4:A:528:LEU:HB2	4:A:531:ILE:CG2	2.22	0.51
4:A:728:LYS:O	4:A:729:ALA:C	2.54	0.51
4:A:896:ARG:HD2	4:A:897:TYR:HE1	1.76	0.51
4:A:935:GLN:C	4:A:937:VAL:N	2.65	0.51
4:A:1116:LEU:CD2	4:A:1311:VAL:HA	2.41	0.51
4:A:1134:ILE:O	4:A:1138:ILE:CG1	2.36	0.51
5:B:227:LYS:CA	5:B:395:GLN:OE1	2.57	0.51
5:B:485:ARG:CG	5:B:485:ARG:NH1	2.52	0.51
5:B:973:ILE:CG2	5:B:974:PRO:CD	2.87	0.51
5:B:1170:THR:HG22	5:B:1183:LYS:HZ3	1.72	0.51
9:H:3:ASN:CB	9:H:3:ASN:ND2	2.63	0.51
12:K:32:VAL:HG21	12:K:74:ARG:HG3	1.92	0.51
12:K:34:THR:CG2	12:K:35:PHE:N	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:315:LEU:CD1	4:A:319:GLY:HA2	2.41	0.51
4:A:451:HIS:HB3	4:A:453:MET:HB2	1.92	0.51
4:A:464:PRO:HG2	4:A:465:TYR:CD1	2.44	0.51
4:A:483:ASP:OD2	4:A:483:ASP:C	2.49	0.51
4:A:496:GLU:O	4:A:499:ALA:CA	2.55	0.51
4:A:972:HIS:CB	4:A:972:HIS:HA	2.24	0.51
4:A:1127:ASP:O	4:A:1130:GLN:N	2.43	0.51
5:B:292:ILE:HD12	5:B:326:ASP:HA	1.92	0.51
5:B:431:TYR:CD1	5:B:447:ALA:HB1	2.46	0.51
5:B:488:TYR:C	5:B:490:SER:N	2.69	0.51
5:B:640:VAL:O	5:B:640:VAL:HG12	2.10	0.51
5:B:753:ALA:O	5:B:755:ILE:N	2.44	0.51
5:B:839:MET:HE1	5:B:980:PHE:HB2	1.92	0.51
5:B:1001:PHE:CE2	6:C:34:ARG:CZ	2.94	0.51
5:B:1017:ILE:HB	5:B:1018:PRO:CD	2.40	0.51
7:E:13:TRP:CD2	7:E:39:LEU:HD13	2.45	0.51
9:H:125:LEU:HA	9:H:125:LEU:HD12	1.91	0.51
9:H:145:ARG:O	9:H:146:ARG:HB2	2.11	0.51
10:I:56:ALA:O	10:I:58:VAL:CG2	2.58	0.51
10:I:85:PHE:O	10:I:86:PHE:CB	2.59	0.51
11:J:64:ASN:HB3	11:J:65:PRO:CG	2.41	0.51
12:K:29:ASN:CG	12:K:77:THR:O	2.53	0.51
4:A:90:VAL:C	4:A:297:GLN:NE2	2.68	0.50
4:A:336:ILE:CG2	4:A:337:ARG:N	2.68	0.50
4:A:431:LYS:C	4:A:432:VAL:HG22	2.28	0.50
4:A:545:GLN:O	4:A:549:MET:HG3	2.11	0.50
4:A:567:LYS:HE2	9:H:95:TYR:CE2	2.46	0.50
4:A:666:ILE:CA	5:B:1026:LEU:HD13	2.30	0.50
4:A:845:LEU:O	4:A:847:ASP:N	2.44	0.50
4:A:1193:LEU:HD11	4:A:1195:LEU:HD21	1.92	0.50
5:B:38:PHE:CE2	5:B:43:LEU:HD21	2.47	0.50
5:B:322:PHE:CZ	10:I:30:ARG:HD3	2.45	0.50
5:B:458:LYS:O	5:B:462:ALA:HB2	2.10	0.50
5:B:706:GLN:CG	5:B:706:GLN:NE2	2.65	0.50
5:B:781:PHE:CE1	5:B:782:LEU:HD12	2.46	0.50
5:B:1072:MET:HE2	5:B:1087:PHE:CD1	2.46	0.50
6:C:57:VAL:HG11	11:J:60:PHE:HB2	1.92	0.50
8:F:117:PRO:HG2	8:F:118:LEU:N	2.26	0.50
1:R:5:A:C2'	1:R:6:G:O4'	2.60	0.50
4:A:16:GLU:CD	4:A:1418:LEU:HD11	2.37	0.50
4:A:113:LEU:C	4:A:114:LEU:CD2	2.83	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:464:PRO:O	4:A:464:PRO:CG	2.53	0.50
4:A:523:ILE:C	4:A:524:VAL:CG2	2.71	0.50
4:A:542:GLU:O	4:A:543:LEU:C	2.52	0.50
4:A:648:ASN:O	4:A:649:ILE:C	2.52	0.50
4:A:655:PHE:C	4:A:657:LEU:N	2.68	0.50
4:A:675:THR:O	4:A:679:ILE:N	2.42	0.50
4:A:863:VAL:CG1	4:A:863:VAL:HB	2.22	0.50
4:A:1227:ILE:HD12	4:A:1239:ARG:HB2	1.92	0.50
5:B:304:ASP:OD1	5:B:304:ASP:C	2.54	0.50
5:B:769:TYR:O	5:B:770:GLN:C	2.49	0.50
5:B:792:MET:O	5:B:793:ALA:HB2	2.10	0.50
5:B:869:SER:C	5:B:870:ILE:CG1	2.83	0.50
5:B:959:ASP:HB2	5:B:961:LEU:HG	1.93	0.50
5:B:1168:LEU:C	5:B:1170:THR:H	2.18	0.50
6:C:73:GLN:HG3	6:C:75:MET:H	1.76	0.50
7:E:12:LEU:HD23	7:E:42:PHE:HZ	1.76	0.50
7:E:29:PHE:N	7:E:63:ASN:O	2.41	0.50
7:E:106:GLN:O	7:E:130:ALA:HB1	2.11	0.50
7:E:197:LYS:HG2	7:E:198:ILE:N	2.25	0.50
9:H:81:PRO:C	9:H:81:PRO:CB	2.76	0.50
10:I:100:PHE:C	10:I:101:PHE:CD1	2.90	0.50
4:A:276:LEU:CD2	4:A:292:ALA:O	2.59	0.50
4:A:304:MET:HG2	5:B:1210:MET:CG	2.41	0.50
4:A:356:ASP:CB	4:A:469:ARG:HH11	2.24	0.50
4:A:522:GLY:CA	4:A:523:ILE:HD12	2.42	0.50
4:A:754:SER:CB	4:A:757:ASN:HD22	2.24	0.50
4:A:982:THR:CB	4:A:985:ASP:CG	2.84	0.50
4:A:1169:ILE:C	4:A:1170:ILE:HD13	2.37	0.50
5:B:63:ILE:CG1	5:B:421:PHE:CE2	2.93	0.50
5:B:368:GLU:CG	5:B:368:GLU:HB2	2.19	0.50
5:B:957:ASN:ND2	5:B:957:ASN:C	2.68	0.50
6:C:16:ASP:HA	6:C:240:VAL:CG2	2.41	0.50
6:C:77:ILE:HA	6:C:129:ILE:HD11	1.93	0.50
7:E:121:MET:C	7:E:123:LEU:N	2.68	0.50
11:J:57:ILE:C	11:J:59:LYS:N	2.60	0.50
12:K:46:ILE:O	12:K:50:LEU:HD12	2.12	0.50
4:A:68:GLN:C	4:A:70:CYS:H	2.20	0.50
4:A:265:LYS:NZ	4:A:323:LYS:CD	2.73	0.50
4:A:423:ASP:O	4:A:424:ILE:O	2.29	0.50
4:A:493:GLN:HE21	4:A:493:GLN:CA	2.24	0.50
4:A:546:VAL:CG1	4:A:546:VAL:HB	2.16	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:834:THR:HB	4:A:1077:THR:HG23	1.93	0.50
4:A:878:ILE:O	4:A:879:GLU:CB	2.54	0.50
4:A:898:ARG:CG	4:A:898:ARG:CA	2.78	0.50
4:A:902:LEU:HD21	4:A:926:GLN:CB	2.39	0.50
4:A:997:LEU:HD13	4:A:1053:PHE:CD1	2.47	0.50
4:A:1131:ALA:HA	4:A:1134:ILE:CD1	2.42	0.50
4:A:1141:THR:HG23	4:A:1205:LYS:HD2	1.93	0.50
4:A:1344:GLY:O	4:A:1345:ARG:C	2.54	0.50
5:B:410:GLY:C	5:B:412:LEU:H	2.18	0.50
5:B:795:ILE:HG22	5:B:796:LEU:N	2.25	0.50
5:B:994:TYR:HB2	5:B:999:MET:CE	2.41	0.50
5:B:1202:LEU:CD1	5:B:1206:GLU:CD	2.81	0.50
6:C:33:LEU:O	6:C:35:ARG:N	2.44	0.50
6:C:167:HIS:CG	6:C:168:ALA:H	2.28	0.50
7:E:79:TRP:O	7:E:80:VAL:C	2.51	0.50
7:E:147:HIS:O	7:E:148:GLU:C	2.53	0.50
9:H:99:GLY:O	9:H:138:GLU:O	2.29	0.50
10:I:13:MET:O	10:I:15:TYR:HE1	1.94	0.50
13:L:36:SER:OG	13:L:38:LEU:CD1	2.59	0.50
4:A:10:PRO:O	5:B:1193:GLN:CB	2.59	0.50
4:A:789:LYS:HD2	10:I:67:THR:OG1	2.12	0.50
4:A:834:THR:O	4:A:837:ILE:HB	2.11	0.50
4:A:873:MET:CE	4:A:873:MET:CG	2.90	0.50
4:A:1394:THR:CG2	4:A:1395:GLY:O	2.60	0.50
5:B:379:GLY:O	5:B:380:TYR:C	2.49	0.50
5:B:491:THR:O	5:B:492:LEU:O	2.29	0.50
5:B:545:ILE:C	5:B:634:TYR:HE2	2.19	0.50
5:B:636:PRO:HB2	5:B:743:ILE:HG12	1.94	0.50
5:B:737:THR:O	5:B:738:PHE:C	2.53	0.50
5:B:893:LEU:CD2	5:B:897:GLY:C	2.85	0.50
13:L:53:HIS:C	13:L:55:ILE:H	2.19	0.50
4:A:151:ASP:OD1	4:A:163:SER:CB	2.59	0.50
4:A:276:LEU:CD1	4:A:292:ALA:HB1	2.42	0.50
4:A:389:THR:C	4:A:391:LEU:N	2.68	0.50
4:A:475:THR:O	4:A:478:TYR:N	2.36	0.50
4:A:829:VAL:C	4:A:831:THR:N	2.68	0.50
4:A:1067:LEU:O	4:A:1067:LEU:HG	1.76	0.50
4:A:1286:LYS:O	4:A:1286:LYS:CG	2.52	0.50
5:B:830:TYR:C	5:B:832:GLY:H	2.18	0.50
7:E:78:LEU:CB	7:E:107:THR:CG2	2.78	0.50
8:F:147:SER:OG	8:F:150:GLU:CG	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:H:47:PHE:CD2	9:H:95:TYR:HB2	2.47	0.50
12:K:83:PRO:HA	12:K:86:ALA:HB2	1.91	0.50
4:A:20:GLY:O	5:B:1213:THR:HG23	2.11	0.50
4:A:175:ARG:O	4:A:181:LEU:HA	2.12	0.50
4:A:274:ILE:CA	4:A:274:ILE:CG1	2.87	0.50
4:A:406:ILE:HD13	4:A:431:LYS:HB2	1.92	0.50
4:A:482:PHE:O	5:B:837:ASP:O	2.29	0.50
4:A:827:THR:C	4:A:829:VAL:H	2.19	0.50
4:A:1141:THR:CG2	4:A:1205:LYS:CD	2.89	0.50
5:B:98:THR:O	5:B:126:SER:OG	2.29	0.50
5:B:577:ALA:O	5:B:578:THR:C	2.47	0.50
5:B:640:VAL:HG12	5:B:650:GLU:O	2.11	0.50
7:E:59:SER:HB3	7:E:81:GLU:CB	2.42	0.50
7:E:82:PHE:N	7:E:82:PHE:HD1	2.09	0.50
8:F:83:PRO:HG2	8:F:84:TYR:HD1	1.77	0.50
11:J:36:LEU:O	11:J:37:SER:C	2.55	0.50
11:J:36:LEU:O	11:J:39:LEU:N	2.45	0.50
1:R:8:G:C2	2:T:22:DT:N3	2.79	0.50
4:A:40:THR:HG21	4:A:259:GLU:CD	2.36	0.50
4:A:169:ASN:ND2	4:A:169:ASN:H	2.10	0.50
4:A:740:LEU:CD2	4:A:740:LEU:N	2.75	0.50
4:A:935:GLN:O	4:A:936:LEU:C	2.53	0.50
4:A:1030:ARG:O	4:A:1031:VAL:C	2.55	0.50
4:A:1340:GLY:CA	7:E:183:PRO:HG2	2.41	0.50
4:A:1397:LEU:O	4:A:1398:MET:O	2.30	0.50
4:A:1420:ASP:O	4:A:1421:CYS:CB	2.57	0.50
5:B:102:VAL:HG21	5:B:112:LEU:HD22	1.94	0.50
5:B:195:CYS:CB	5:B:782:LEU:CD2	2.89	0.50
5:B:277:LYS:HD3	5:B:335:GLY:C	2.37	0.50
5:B:361:LEU:O	5:B:363:HIS:O	2.29	0.50
5:B:409:ALA:O	5:B:410:GLY:C	2.51	0.50
5:B:497:ARG:CG	5:B:497:ARG:HE	2.22	0.50
5:B:739:THR:OG1	5:B:740:HIS:ND1	2.35	0.50
5:B:957:ASN:CB	5:B:961:LEU:HD12	2.25	0.50
6:C:166:GLU:O	6:C:167:HIS:CB	2.59	0.50
7:E:16:PHE:O	7:E:19:VAL:HG23	2.12	0.50
7:E:98:ILE:CA	7:E:98:ILE:CG2	2.84	0.50
7:E:111:VAL:O	7:E:111:VAL:HG13	2.09	0.50
7:E:124:VAL:HG12	7:E:125:PRO:CD	2.42	0.50
9:H:63:LEU:CD1	9:H:63:LEU:CB	2.86	0.50
4:A:41:MET:HA	4:A:49:LYS:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:90:VAL:HG12	4:A:91:PHE:N	2.26	0.50
4:A:262:LEU:HG	4:A:328:ARG:NH2	2.26	0.50
4:A:455:MET:HE1	5:B:1134:GLU:HB3	1.94	0.50
4:A:664:THR:CG2	4:A:665:GLY:N	2.75	0.50
4:A:718:VAL:C	4:A:720:ARG:N	2.68	0.50
4:A:743:VAL:O	4:A:747:VAL:CG2	2.53	0.50
4:A:908:LEU:CD1	4:A:983:ILE:HD11	2.23	0.50
4:A:989:GLY:C	4:A:991:LYS:N	2.68	0.50
4:A:1025:ARG:CG	4:A:1025:ARG:NH1	2.60	0.50
4:A:1153:TYR:CE1	10:I:42:LEU:HD22	2.46	0.50
4:A:1277:GLU:HG3	4:A:1278:ASN:HD22	1.75	0.50
4:A:1372:VAL:HG12	4:A:1373:ASP:N	2.27	0.50
5:B:222:ILE:O	5:B:240:ILE:HA	2.11	0.50
5:B:270:LYS:HE3	5:B:281:PRO:HG3	1.93	0.50
5:B:512:ARG:HB3	5:B:533:CYS:O	2.11	0.50
7:E:60:PHE:CZ	7:E:80:VAL:HG21	2.40	0.50
9:H:25:ARG:O	9:H:26:ILE:HD12	2.11	0.50
9:H:38:LEU:CD1	9:H:123:MET:HE2	2.42	0.50
4:A:68:GLN:O	4:A:68:GLN:CD	2.54	0.49
4:A:135:PHE:O	4:A:135:PHE:HD2	1.83	0.49
4:A:360:GLU:O	4:A:362:ASP:N	2.44	0.49
4:A:608:ILE:HG12	4:A:613:ILE:HG13	1.94	0.49
4:A:709:THR:O	4:A:713:SER:OG	2.30	0.49
4:A:1035:TYR:O	4:A:1037:LEU:HD23	2.12	0.49
4:A:1064:VAL:O	4:A:1067:LEU:N	2.45	0.49
4:A:1209:MET:O	4:A:1213:GLY:N	2.41	0.49
4:A:1221:LYS:CG	4:A:1221:LYS:CE	2.80	0.49
4:A:1261:LYS:H	4:A:1263:ILE:H	1.60	0.49
5:B:364:ILE:O	5:B:365:THR:HB	2.12	0.49
5:B:635:ARG:HH11	5:B:636:PRO:HG2	1.76	0.49
5:B:662:MET:O	5:B:663:ALA:C	2.50	0.49
5:B:1033:LYS:CE	5:B:1087:PHE:O	2.59	0.49
5:B:1177:HIS:O	5:B:1179:GLN:CA	2.58	0.49
9:H:101:ALA:CB	9:H:116:TYR:CE2	2.93	0.49
10:I:16:PRO:O	10:I:16:PRO:HG2	2.11	0.49
11:J:10:CYS:SG	11:J:43:ARG:CD	3.00	0.49
4:A:144:THR:O	4:A:146:MET:CE	2.59	0.49
4:A:325:ILE:C	4:A:325:ILE:HG22	2.37	0.49
4:A:451:HIS:CG	4:A:453:MET:HB2	2.47	0.49
4:A:691:LEU:HD12	4:A:692:ASP:N	2.23	0.49
4:A:982:THR:O	4:A:984:LYS:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:996:ASN:HA	4:A:998:LEU:HG	1.94	0.49
5:B:314:LEU:C	5:B:316:PRO:HD2	2.37	0.49
5:B:418:LYS:O	5:B:420:LEU:N	2.46	0.49
5:B:843:GLN:HB2	5:B:993:THR:HB	1.92	0.49
5:B:903:VAL:O	5:B:949:VAL:HG23	2.12	0.49
6:C:133:ILE:CG2	6:C:134:ILE:H	2.23	0.49
7:E:52:ARG:CB	7:E:53:PRO:HD2	2.42	0.49
7:E:98:ILE:C	7:E:100:ILE:N	2.68	0.49
11:J:45:CYS:SG	11:J:46:CYS:N	2.83	0.49
12:K:31:VAL:O	12:K:31:VAL:HG12	2.12	0.49
4:A:265:LYS:HD3	4:A:302:THR:HG23	1.93	0.49
4:A:304:MET:CG	5:B:1210:MET:CG	2.90	0.49
4:A:532:ARG:C	4:A:534:LEU:H	2.18	0.49
4:A:845:LEU:CD2	4:A:845:LEU:N	2.67	0.49
4:A:856:THR:CG2	4:A:865:GLN:HB2	2.42	0.49
4:A:1076:ALA:C	4:A:1078:GLN:N	2.52	0.49
4:A:1332:PHE:CE1	4:A:1381:LEU:HD13	2.47	0.49
4:A:1424:VAL:HG22	4:A:1436:ILE:HD11	1.94	0.49
5:B:525:ALA:O	5:B:527:THR:HG22	2.11	0.49
5:B:542:MET:HE3	5:B:747:MET:HG3	1.94	0.49
5:B:792:MET:HE2	5:B:857:ARG:CZ	2.41	0.49
6:C:141:GLY:O	6:C:142:VAL:O	2.30	0.49
6:C:251:LEU:C	6:C:253:LYS:N	2.65	0.49
11:J:43:ARG:O	11:J:46:CYS:HB2	2.13	0.49
4:A:271:LYS:O	4:A:274:ILE:N	2.43	0.49
4:A:302:THR:HG23	4:A:313:GLN:HE22	1.77	0.49
4:A:335:ARG:CD	4:A:339:ASN:HD22	2.26	0.49
4:A:345:VAL:O	4:A:345:VAL:HG23	2.11	0.49
4:A:476:SER:HB2	4:A:477:PRO:CD	2.42	0.49
4:A:590:ARG:HB2	4:A:605:MET:HB3	1.94	0.49
4:A:941:LYS:O	4:A:943:LEU:N	2.45	0.49
4:A:986:ILE:CD1	4:A:1032:LEU:HD21	2.43	0.49
4:A:1066:VAL:O	4:A:1067:LEU:C	2.50	0.49
4:A:1288:ASP:HA	4:A:1300:LYS:NZ	2.27	0.49
4:A:1301:GLU:HG2	4:A:1301:GLU:O	2.10	0.49
4:A:1355:VAL:HG12	4:A:1356:ILE:N	2.28	0.49
4:A:1362:TYR:CD1	4:A:1363:VAL:C	2.91	0.49
5:B:463:THR:HB	5:B:465:ASN:H	1.78	0.49
5:B:704:ALA:H	5:B:741:CYS:HA	1.77	0.49
5:B:973:ILE:CG2	5:B:974:PRO:N	2.75	0.49
5:B:1023:VAL:O	5:B:1027:ILE:HG13	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:15:LYS:O	6:C:240:VAL:HG23	2.12	0.49
6:C:176:ILE:O	6:C:176:ILE:HG22	2.00	0.49
8:F:87:LYS:O	8:F:91:ALA:HB2	2.12	0.49
9:H:58:THR:C	9:H:59:ILE:HG12	2.36	0.49
10:I:88:SER:HA	10:I:100:PHE:HE1	1.75	0.49
12:K:82:ASP:OD2	12:K:84:LYS:HD2	2.13	0.49
13:L:28:LYS:HB2	13:L:39:SER:CB	2.43	0.49
4:A:93:VAL:O	4:A:93:VAL:HG12	2.13	0.49
4:A:384:ASN:O	4:A:388:LEU:N	2.39	0.49
4:A:492:PRO:O	4:A:492:PRO:HG2	2.12	0.49
4:A:764:CYS:HB2	4:A:801:GLU:O	2.12	0.49
4:A:985:ASP:O	4:A:986:ILE:O	2.30	0.49
4:A:1148:ILE:O	10:I:48:LEU:HD12	2.13	0.49
4:A:1194:ARG:C	4:A:1195:LEU:HD23	2.37	0.49
4:A:1332:PHE:CD1	4:A:1348:LEU:HD13	2.47	0.49
4:A:1437:GLY:O	4:A:1438:THR:C	2.53	0.49
5:B:114:PRO:CD	5:B:124:TYR:HE1	2.21	0.49
5:B:255:GLN:O	5:B:271:ALA:HB1	2.12	0.49
5:B:330:ALA:O	5:B:331:LEU:C	2.55	0.49
5:B:657:HIS:C	5:B:659:ALA:N	2.61	0.49
5:B:911:ILE:CD1	5:B:941:LEU:HD23	2.42	0.49
5:B:1168:LEU:HB3	5:B:1170:THR:OG1	2.13	0.49
6:C:181:ASP:OD2	6:C:186:LEU:CD1	2.61	0.49
6:C:247:GLY:C	6:C:249:ASP:H	2.11	0.49
7:E:16:PHE:O	7:E:19:VAL:N	2.46	0.49
7:E:117:THR:CA	7:E:118:PRO:N	2.69	0.49
7:E:144:ILE:HD11	7:E:184:VAL:HG22	1.94	0.49
8:F:155:LEU:CD2	8:F:155:LEU:N	2.68	0.49
9:H:84:ALA:HB1	9:H:87:ARG:HB2	1.95	0.49
10:I:6:PHE:O	10:I:7:CYS:C	2.53	0.49
4:A:68:GLN:HE22	4:A:70:CYS:HB2	1.74	0.49
4:A:275:SER:O	4:A:279:LEU:HG	2.13	0.49
4:A:320:ARG:C	4:A:322:VAL:HG12	2.38	0.49
4:A:552:TRP:NE1	4:A:655:PHE:CD1	2.80	0.49
4:A:845:LEU:N	4:A:845:LEU:HD23	2.27	0.49
4:A:1205:LYS:O	4:A:1207:LEU:N	2.45	0.49
4:A:1341:ILE:HB	7:E:182:ASP:OD2	2.13	0.49
5:B:55:VAL:CG1	5:B:56:ASP:N	2.52	0.49
5:B:825:VAL:HG13	5:B:826:ALA:N	2.27	0.49
5:B:1182:CYS:O	5:B:1183:LYS:C	2.53	0.49
6:C:116:LYS:HB2	6:C:140:ASN:HA	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:266:ASP:CA	6:C:267:GLN:N	2.65	0.49
7:E:173:SER:O	7:E:174:GLN:C	2.53	0.49
10:I:19:ASP:CB	10:I:24:ARG:HG3	2.40	0.49
10:I:36:GLU:CG	10:I:36:GLU:HB3	2.19	0.49
10:I:115:LYS:CD	10:I:115:LYS:HE3	2.19	0.49
4:A:210:ILE:O	4:A:213:HIS:CA	2.61	0.49
4:A:276:LEU:HD11	4:A:292:ALA:CB	2.42	0.49
4:A:349:ALA:O	4:A:350:ARG:HB2	2.13	0.49
4:A:363:GLN:HA	4:A:459:ARG:O	2.13	0.49
4:A:1227:ILE:C	4:A:1228:TRP:HE3	2.18	0.49
5:B:841:MET:O	5:B:993:THR:HA	2.13	0.49
5:B:1198:TYR:CE1	5:B:1201:LYS:HD2	2.47	0.49
6:C:73:GLN:HG3	6:C:74:SER:H	1.62	0.49
9:H:128:ASN:O	9:H:131:ASN:ND2	2.42	0.49
10:I:83:ASN:O	10:I:84:VAL:CG2	2.61	0.49
10:I:83:ASN:O	10:I:84:VAL:HG23	2.12	0.49
13:L:54:ARG:HH11	13:L:54:ARG:HG3	1.77	0.49
1:R:10:A:C2	2:T:19:DT:N3	2.72	0.49
2:T:19:DT:H2"	2:T:20:DC:H5'	1.95	0.49
4:A:11:LEU:CD2	4:A:11:LEU:CB	2.76	0.49
4:A:125:ALA:HA	4:A:128:ILE:HB	1.94	0.49
4:A:225:ASN:O	4:A:226:GLU:O	2.27	0.49
4:A:982:THR:C	4:A:984:LYS:N	2.70	0.49
4:A:1052:GLN:C	4:A:1053:PHE:O	2.54	0.49
4:A:1238:ILE:HG22	4:A:1240:CYS:SG	2.53	0.49
4:A:1276:VAL:HB	4:A:1279:ILE:HD13	1.94	0.49
4:A:1398:MET:N	4:A:1426:GLU:OE2	2.45	0.49
5:B:524:PRO:HG2	5:B:525:ALA:N	2.28	0.49
5:B:802:PRO:CB	5:B:1091:TYR:CD1	2.96	0.49
6:C:26:ASP:O	6:C:27:LEU:C	2.56	0.49
7:E:20:LYS:HB2	7:E:35:VAL:HG22	1.94	0.49
7:E:93:MET:HG3	7:E:123:LEU:O	2.12	0.49
10:I:40:SER:CB	10:I:41:PRO:CD	2.88	0.49
11:J:22:LEU:N	11:J:22:LEU:HD13	2.25	0.49
11:J:43:ARG:HG3	11:J:46:CYS:CB	2.41	0.49
11:J:46:CYS:SG	11:J:46:CYS:CA	2.98	0.49
1:R:2:U:C4	1:R:3:C:C4	3.01	0.49
2:T:24:DT:H2"	2:T:25:DC:H5'	1.93	0.49
4:A:4:GLN:HE22	5:B:1159:ARG:N	1.90	0.49
4:A:76:GLU:HG3	4:A:76:GLU:O	2.11	0.49
4:A:311:GLN:CB	4:A:311:GLN:C	2.82	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:312:PRO:C	4:A:313:GLN:HG3	2.36	0.49
4:A:569:LYS:HD2	6:C:221:TYR:O	2.13	0.49
4:A:780:VAL:HG23	5:B:699:GLU:CD	2.38	0.49
4:A:893:PHE:O	4:A:893:PHE:HD2	1.85	0.49
4:A:901:LEU:CD1	4:A:926:GLN:HG2	2.43	0.49
4:A:970:THR:HB	4:A:971:PHE:CD1	2.47	0.49
4:A:1195:LEU:O	4:A:1237:ILE:HG23	2.12	0.49
4:A:1291:VAL:CG1	4:A:1292:PRO:CD	2.90	0.49
5:B:288:ALA:HB2	5:B:330:ALA:HB3	1.95	0.49
5:B:834:ASN:HB3	5:B:840:ILE:HD12	1.94	0.49
5:B:896:ASP:OD2	13:L:58:LYS:CE	2.61	0.49
5:B:900:ALA:O	5:B:903:VAL:CG2	2.59	0.49
5:B:1172:ILE:O	5:B:1174:LYS:N	2.46	0.49
7:E:118:PRO:C	7:E:120:ALA:H	2.05	0.49
7:E:175:LEU:HB3	7:E:176:PRO:HD2	1.93	0.49
7:E:202:SER:C	7:E:204:THR:N	2.67	0.49
8:F:83:PRO:CG	8:F:84:TYR:N	2.75	0.49
10:I:25:LEU:CG	10:I:26:LEU:N	2.75	0.49
11:J:3:VAL:CA	11:J:53:HIS:CE1	2.96	0.49
4:A:108:MET:CG	4:A:170:THR:O	2.61	0.49
4:A:219:PHE:C	4:A:222:LEU:HD12	2.36	0.49
4:A:240:PRO:HG2	5:B:1209:ALA:HA	1.95	0.49
4:A:300:VAL:O	4:A:300:VAL:HG12	2.12	0.49
4:A:322:VAL:O	4:A:323:LYS:CG	2.61	0.49
4:A:339:ASN:CB	5:B:1117:GLN:HE22	2.22	0.49
4:A:351:THR:HG21	4:A:466:SER:O	2.13	0.49
4:A:406:ILE:HD12	4:A:431:LYS:O	2.13	0.49
4:A:574:GLY:O	4:A:575:LYS:C	2.55	0.49
4:A:574:GLY:O	4:A:577:ILE:HG13	2.13	0.49
4:A:667:GLY:C	4:A:669:THR:H	2.21	0.49
4:A:867:ILE:CG2	4:A:872:GLY:N	2.75	0.49
4:A:874:ASP:OD1	4:A:876:ALA:CB	2.61	0.49
4:A:913:LEU:CD1	4:A:915:SER:H	2.22	0.49
5:B:188:ASP:CB	5:B:188:ASP:OD1	2.47	0.49
5:B:205:ILE:HG13	5:B:461:LEU:HB3	1.94	0.49
5:B:229:ALA:HB1	5:B:231:PRO:HD2	1.95	0.49
5:B:258:LEU:C	5:B:259:TYR:O	2.53	0.49
5:B:308:TRP:CH2	10:I:45:ARG:HB3	2.47	0.49
5:B:461:LEU:CD1	5:B:466:TRP:CH2	2.95	0.49
5:B:834:ASN:HB2	5:B:839:MET:HA	1.95	0.49
5:B:1190:ASP:C	5:B:1191:ILE:HG13	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:204:SER:O	6:C:205:LYS:C	2.55	0.49
7:E:165:LEU:HD23	7:E:165:LEU:H	1.78	0.49
10:I:86:PHE:C	10:I:86:PHE:HD1	2.20	0.49
12:K:33:ILE:HD13	12:K:87:LEU:HD22	1.94	0.49
13:L:45:ALA:C	13:L:46:VAL:HG23	2.38	0.49
1:R:5:A:N1	2:T:24:DT:O4	2.46	0.48
4:A:33:ALA:HB1	4:A:35:ILE:HG12	1.95	0.48
4:A:126:LEU:N	4:A:126:LEU:HD23	2.28	0.48
4:A:219:PHE:C	4:A:222:LEU:O	2.56	0.48
4:A:566:ILE:HG22	4:A:566:ILE:O	2.11	0.48
4:A:808:LEU:CD2	4:A:816:HIS:CD2	2.93	0.48
4:A:902:LEU:HD11	4:A:926:GLN:CB	2.42	0.48
5:B:565:PRO:O	5:B:565:PRO:HD2	2.13	0.48
5:B:646:LEU:CG	5:B:646:LEU:HB3	2.23	0.48
5:B:853:SER:C	5:B:854:LEU:HD23	2.38	0.48
9:H:6:PHE:C	9:H:6:PHE:CD2	2.91	0.48
9:H:110:ASP:N	9:H:110:ASP:HB3	2.27	0.48
12:K:18:LYS:HE3	12:K:38:GLU:OE2	2.14	0.48
4:A:18:GLN:HE21	4:A:1418:LEU:CD1	2.26	0.48
4:A:183:GLY:O	4:A:184:SER:O	2.31	0.48
4:A:207:ILE:C	4:A:210:ILE:HG13	2.38	0.48
4:A:213:HIS:C	4:A:214:ILE:O	2.50	0.48
4:A:246:VAL:O	4:A:246:VAL:CG1	2.60	0.48
4:A:320:ARG:NH2	5:B:470:LYS:C	2.71	0.48
4:A:596:THR:CB	4:A:596:THR:N	2.68	0.48
4:A:783:THR:HB	4:A:787:PHE:CD1	2.47	0.48
4:A:987:VAL:HG23	4:A:1028:THR:OG1	2.13	0.48
4:A:1208:THR:C	4:A:1212:VAL:HG23	2.38	0.48
5:B:27:ALA:O	5:B:30:SER:N	2.39	0.48
5:B:485:ARG:HG3	5:B:491:THR:OG1	2.12	0.48
5:B:751:VAL:HG22	5:B:812:LEU:HD11	1.94	0.48
5:B:866:TYR:C	5:B:866:TYR:N	2.62	0.48
6:C:60:ASP:HB3	13:L:67:PHE:HE1	1.75	0.48
9:H:95:TYR:CE2	9:H:97:MET:CG	2.96	0.48
10:I:6:PHE:HD2	10:I:12:ASN:O	1.97	0.48
10:I:96:SER:HB2	10:I:98:VAL:CG2	2.35	0.48
12:K:32:VAL:O	12:K:32:VAL:HG12	2.13	0.48
12:K:57:LEU:CD1	12:K:57:LEU:HG	2.20	0.48
13:L:61:THR:CG2	13:L:62:LYS:H	2.22	0.48
1:R:5:A:N3	1:R:6:G:C8	2.81	0.48
3:N:11:DG:O3'	7:E:117:THR:HG23	2.04	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:169:ASN:HD22	4:A:169:ASN:H	1.61	0.48
4:A:209:ASN:CA	4:A:210:ILE:HG12	2.42	0.48
4:A:398:GLU:O	4:A:399:HIS:C	2.51	0.48
4:A:730:GLY:O	4:A:733:ALA:N	2.40	0.48
4:A:825:ILE:HD13	5:B:533:CYS:SG	2.53	0.48
4:A:1212:VAL:C	4:A:1216:ILE:HG13	2.37	0.48
4:A:1388:GLY:C	4:A:1390:ASN:N	2.71	0.48
4:A:1436:ILE:O	4:A:1437:GLY:O	2.30	0.48
5:B:830:TYR:C	5:B:832:GLY:N	2.69	0.48
5:B:863:GLU:O	5:B:864:LYS:HB3	2.12	0.48
5:B:882:THR:OG1	5:B:935:ARG:CA	2.61	0.48
5:B:982:SER:HB2	5:B:984:HIS:H	1.78	0.48
5:B:1080:LYS:H	6:C:180:TYR:HE2	1.61	0.48
5:B:1221:SER:HA	5:B:1222:ARG:H	1.77	0.48
6:C:100:THR:H	6:C:119:VAL:HG12	1.78	0.48
6:C:141:GLY:C	6:C:142:VAL:O	2.57	0.48
6:C:206:ASN:ND2	6:C:229:TYR:HD2	2.07	0.48
8:F:128:LYS:CD	8:F:148:VAL:O	2.61	0.48
10:I:77:LYS:CD	10:I:77:LYS:HE3	2.18	0.48
10:I:111:THR:HG22	10:I:113:ASP:HB3	1.95	0.48
11:J:5:VAL:HG12	11:J:6:ARG:CG	2.43	0.48
11:J:56:LEU:O	11:J:60:PHE:CD2	2.67	0.48
2:T:18:DA:OP1	2:T:19:DT:OP2	2.31	0.48
3:N:1:DC:O3'	4:A:1110:ASN:HB3	2.13	0.48
4:A:51:GLY:HA2	4:A:56:PRO:HG3	1.94	0.48
4:A:837:ILE:O	4:A:841:LEU:N	2.38	0.48
4:A:868:TYR:CE1	4:A:1064:VAL:CG2	2.95	0.48
4:A:1150:SER:O	10:I:46:HIS:HB2	2.13	0.48
4:A:1308:THR:HG21	4:A:1310:GLY:O	2.13	0.48
4:A:1325:THR:HG23	4:A:1326:ARG:CG	2.43	0.48
5:B:524:PRO:HG2	5:B:525:ALA:H	1.79	0.48
5:B:698:GLU:O	5:B:700:SER:N	2.46	0.48
5:B:995:ARG:HB3	5:B:997:GLU:OE2	2.12	0.48
5:B:1187:ASN:OD1	5:B:1190:ASP:O	2.31	0.48
7:E:171:LYS:HB3	7:E:174:GLN:HG3	1.93	0.48
8:F:97:ARG:HB3	8:F:121:ALA:CB	2.43	0.48
8:F:145:ASP:C	8:F:146:TRP:CD1	2.92	0.48
9:H:47:PHE:CD2	9:H:95:TYR:HB3	2.49	0.48
10:I:111:THR:CG2	10:I:112:SER:N	2.76	0.48
4:A:24:PRO:HB3	4:A:237:THR:OG1	2.14	0.48
4:A:367:PRO:HB3	4:A:465:TYR:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:496:GLU:O	4:A:498:ARG:N	2.47	0.48
4:A:536:LEU:O	4:A:537:ARG:C	2.55	0.48
4:A:573:SER:O	4:A:574:GLY:C	2.56	0.48
4:A:1167:GLU:O	4:A:1170:ILE:HG12	2.13	0.48
4:A:1208:THR:O	4:A:1211:GLN:CA	2.62	0.48
4:A:1391:ARG:O	4:A:1393:ASN:N	2.46	0.48
5:B:53:GLN:O	5:B:53:GLN:CG	2.36	0.48
5:B:104:GLU:OE1	5:B:110:HIS:HB2	2.12	0.48
5:B:326:ASP:CG	5:B:329:THR:HG1	2.20	0.48
5:B:535:LEU:N	5:B:535:LEU:HD23	2.10	0.48
5:B:582:VAL:CG2	5:B:626:ILE:HB	2.44	0.48
5:B:748:ILE:HG13	5:B:749:LEU:HG	1.94	0.48
5:B:821:GLN:HE22	5:B:851:PHE:H	1.62	0.48
5:B:839:MET:HG3	5:B:1010:LEU:HD11	1.95	0.48
5:B:852:ARG:HH11	5:B:852:ARG:HD3	1.41	0.48
5:B:863:GLU:O	5:B:864:LYS:CB	2.61	0.48
6:C:227:THR:O	6:C:228:PHE:CG	2.65	0.48
7:E:29:PHE:C	7:E:30:ILE:CG1	2.62	0.48
7:E:64:PRO:CD	7:E:76:GLY:HA2	2.42	0.48
9:H:47:PHE:N	9:H:48:PRO:HD3	2.28	0.48
9:H:63:LEU:C	9:H:63:LEU:N	2.66	0.48
10:I:50:THR:CG2	10:I:52:ILE:HG22	2.43	0.48
4:A:360:GLU:C	4:A:471:ASN:HD22	2.22	0.48
4:A:506:ALA:C	4:A:508:PRO:HD3	2.39	0.48
4:A:543:LEU:HD12	4:A:547:LEU:HD11	1.87	0.48
4:A:655:PHE:C	4:A:655:PHE:CD2	2.91	0.48
4:A:967:ALA:O	4:A:970:THR:N	2.45	0.48
4:A:1311:VAL:HG11	4:A:1334:ASP:OD2	2.13	0.48
5:B:515:HIS:C	5:B:517:THR:N	2.71	0.48
5:B:616:ILE:HD12	5:B:616:ILE:N	2.28	0.48
5:B:759:PRO:HD3	5:B:1046:PRO:CG	2.44	0.48
5:B:812:LEU:CD1	5:B:812:LEU:CD2	2.82	0.48
5:B:912:ILE:HD11	5:B:966:VAL:HG21	1.92	0.48
6:C:92:CYS:SG	6:C:94:LYS:CB	3.01	0.48
6:C:241:ASP:CG	6:C:242:GLN:H	2.20	0.48
6:C:245:VAL:C	6:C:247:GLY:N	2.66	0.48
7:E:12:LEU:CD2	7:E:42:PHE:HZ	2.25	0.48
12:K:30:ALA:HA	12:K:75:ILE:O	2.13	0.48
12:K:61:TYR:CD1	12:K:62:LYS:N	2.63	0.48
1:R:5:A:N1	1:R:6:G:O6	2.46	0.48
4:A:214:ILE:HG22	4:A:215:SER:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:261:ASP:C	4:A:262:LEU:HD23	2.37	0.48
4:A:320:ARG:NH2	5:B:471:LYS:N	2.62	0.48
4:A:391:LEU:O	4:A:392:VAL:C	2.53	0.48
4:A:526:ASP:O	4:A:527:THR:C	2.57	0.48
4:A:560:ILE:HG22	4:A:561:PRO:O	2.13	0.48
4:A:601:LYS:CB	4:A:603:ASN:CG	2.86	0.48
4:A:709:THR:O	4:A:710:LEU:C	2.52	0.48
4:A:848:ILE:HB	4:A:1065:GLY:CA	2.44	0.48
4:A:864:ILE:O	4:A:864:ILE:HG22	2.14	0.48
4:A:1101:LEU:CD1	4:A:1355:VAL:HG11	2.43	0.48
4:A:1365:TYR:CD1	7:E:203:GLU:CD	2.92	0.48
5:B:34:ILE:HD11	5:B:743:ILE:HG22	1.95	0.48
5:B:372:SER:O	5:B:374:LYS:N	2.46	0.48
5:B:552:MET:O	5:B:556:THR:HB	2.14	0.48
5:B:885:MET:HA	5:B:936:ASP:CB	2.40	0.48
5:B:893:LEU:CD2	5:B:897:GLY:O	2.62	0.48
5:B:955:THR:HG23	13:L:54:ARG:C	2.29	0.48
5:B:1013:ASN:OD1	5:B:1014:PRO:CD	2.62	0.48
5:B:1221:SER:CB	5:B:1221:SER:N	2.70	0.48
6:C:66:ARG:CZ	11:J:2:ILE:HG21	2.44	0.48
6:C:100:THR:O	6:C:119:VAL:HB	2.13	0.48
7:E:177:ARG:HA	7:E:213:ILE:O	2.13	0.48
9:H:10:PHE:O	9:H:54:SER:HA	2.13	0.48
9:H:39:THR:OG1	9:H:124:ARG:HB3	2.14	0.48
9:H:47:PHE:O	9:H:47:PHE:CG	2.65	0.48
4:A:84:ILE:O	4:A:84:ILE:HG23	2.14	0.48
4:A:385:ILE:HD11	4:A:428:TYR:CE2	2.49	0.48
4:A:582:ILE:CG2	4:A:583:PRO:CD	2.90	0.48
4:A:599:SER:O	4:A:600:PRO:C	2.48	0.48
4:A:736:ASN:O	4:A:738:LYS:N	2.45	0.48
4:A:979:SER:OG	4:A:980:ASP:N	2.42	0.48
4:A:1197:LEU:HD12	4:A:1209:MET:SD	2.54	0.48
4:A:1322:ILE:O	4:A:1322:ILE:CG1	2.47	0.48
5:B:640:VAL:HG21	5:B:740:HIS:N	2.28	0.48
5:B:696:GLU:OE2	5:B:696:GLU:CA	2.62	0.48
5:B:781:PHE:CD1	5:B:782:LEU:HD12	2.49	0.48
6:C:29:MET:O	6:C:33:LEU:HB3	2.14	0.48
6:C:73:GLN:HE21	6:C:75:MET:HB2	1.78	0.48
6:C:251:LEU:O	6:C:255:VAL:HG23	2.13	0.48
8:F:99:LEU:HD11	8:F:103:MET:HE3	1.94	0.48
9:H:63:LEU:HD23	9:H:63:LEU:H	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:K:58:PHE:HE2	12:K:74:ARG:NE	1.95	0.48
12:K:65:HIS:HD2	12:K:67:PHE:N	2.09	0.48
2:T:23:DC:C2'	2:T:23:DC:O2	2.56	0.48
4:A:224:PHE:CE2	4:A:231:PRO:HG3	2.48	0.48
4:A:316:GLN:H	4:A:317:LYS:N	2.10	0.48
4:A:701:LEU:HD23	4:A:701:LEU:H	1.65	0.48
4:A:811:GLN:O	4:A:812:GLU:C	2.56	0.48
4:A:855:THR:HG23	4:A:857:ARG:CG	2.44	0.48
4:A:1325:THR:HG23	4:A:1326:ARG:HG2	1.95	0.48
5:B:98:THR:HB	5:B:99:LYS:O	2.13	0.48
5:B:422:LYS:HA	5:B:422:LYS:HG2	1.95	0.48
5:B:423:LYS:HA	5:B:426:LYS:HZ3	1.79	0.48
5:B:473:MET:HA	5:B:475:SER:N	2.26	0.48
5:B:686:ASN:HD22	5:B:686:ASN:N	2.06	0.48
5:B:711:GLU:N	5:B:712:PRO:HD3	2.27	0.48
6:C:36:VAL:HA	6:C:40:GLU:HB2	1.96	0.48
6:C:148:ARG:CG	6:C:149:LYS:N	2.75	0.48
6:C:196:ASP:C	6:C:198:ALA:H	2.20	0.48
7:E:6:GLU:O	7:E:6:GLU:OE2	2.31	0.48
7:E:61:GLN:O	7:E:62:ALA:HB2	2.14	0.48
8:F:73:ALA:O	8:F:74:ILE:CG1	2.54	0.48
8:F:111:LEU:O	8:F:113:GLY:N	2.47	0.48
12:K:22:ASP:HB2	12:K:23:PRO:CD	2.35	0.48
12:K:101:LEU:HA	12:K:101:LEU:HD23	1.56	0.48
4:A:40:THR:HG22	4:A:41:MET:CE	2.44	0.48
4:A:343:LYS:CD	5:B:1155:SER:OG	2.61	0.48
4:A:475:THR:O	4:A:476:SER:C	2.57	0.48
4:A:662:PHE:CE1	4:A:742:ASN:HB3	2.49	0.48
4:A:741:ASN:ND2	4:A:743:VAL:CB	2.77	0.48
4:A:898:ARG:CG	4:A:898:ARG:HD3	2.21	0.48
4:A:1155:ASP:OD2	4:A:1161:THR:HG23	2.14	0.48
4:A:1342:GLU:CG	7:E:212:ARG:NH1	2.73	0.48
5:B:354:ASP:C	5:B:356:LEU:N	2.69	0.48
5:B:426:LYS:HG3	5:B:430:ARG:CZ	2.43	0.48
5:B:993:THR:H	5:B:993:THR:HG23	1.39	0.48
5:B:1043:ASP:OD1	5:B:1044:ALA:N	2.47	0.48
5:B:1110:PRO:C	5:B:1111:MET:HG2	2.39	0.48
5:B:1173:ALA:C	5:B:1175:LEU:H	2.22	0.48
6:C:8:VAL:HA	6:C:21:ILE:O	2.13	0.48
6:C:263:THR:O	6:C:265:MET:N	2.47	0.48
11:J:8:PHE:H	11:J:49:MET:HE1	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:K:23:PRO:O	12:K:23:PRO:HG2	2.13	0.48
12:K:49:GLU:CB	12:K:94:ILE:HD11	2.44	0.48
12:K:57:LEU:CD1	12:K:76:GLN:CG	2.89	0.48
2:T:12:DC:C2'	2:T:13:DA:P	3.00	0.47
4:A:404:TYR:HD2	4:A:412:ARG:HG2	1.77	0.47
4:A:744:LYS:O	4:A:747:VAL:HB	2.13	0.47
4:A:902:LEU:HD11	4:A:926:GLN:HB3	1.96	0.47
4:A:1133:LEU:O	4:A:1134:ILE:C	2.56	0.47
4:A:1141:THR:HG23	4:A:1205:LYS:CE	2.43	0.47
4:A:1227:ILE:CG2	4:A:1228:TRP:H	2.15	0.47
4:A:1334:ASP:O	4:A:1335:ILE:O	2.32	0.47
5:B:173:MET:O	5:B:176:SER:OG	2.26	0.47
5:B:281:PRO:C	5:B:283:VAL:H	2.22	0.47
5:B:300:HIS:CE1	5:B:376:PHE:CE1	2.99	0.47
5:B:349:ILE:H	5:B:349:ILE:HD12	1.79	0.47
5:B:516:ASN:H	5:B:516:ASN:ND2	2.11	0.47
5:B:680:THR:HB	5:B:682:SER:H	1.78	0.47
5:B:733:HIS:CA	5:B:733:HIS:O	2.49	0.47
5:B:755:ILE:O	5:B:755:ILE:HG23	2.07	0.47
5:B:992:ILE:HG13	5:B:993:THR:N	2.29	0.47
5:B:1202:LEU:O	5:B:1204:PHE:N	2.47	0.47
6:C:102:GLN:CG	6:C:102:GLN:NE2	2.70	0.47
6:C:246:ARG:O	6:C:250:THR:OG1	2.29	0.47
7:E:213:ILE:CG1	7:E:214:CYS:N	2.77	0.47
9:H:41:ASP:CB	9:H:122:LEU:H	2.27	0.47
9:H:111:LEU:HA	9:H:111:LEU:HD23	1.38	0.47
12:K:28:PRO:O	12:K:28:PRO:HD2	2.14	0.47
4:A:22:PHE:CB	5:B:1211:ASN:CG	2.87	0.47
4:A:88:LYS:HA	4:A:89:PRO:HD2	1.96	0.47
4:A:346:ASP:CB	5:B:1154:ALA:HB1	2.43	0.47
4:A:352:VAL:C	4:A:353:ILE:CG2	2.87	0.47
4:A:997:LEU:HB3	4:A:1053:PHE:CD2	2.49	0.47
4:A:997:LEU:O	4:A:998:LEU:C	2.50	0.47
4:A:1058:VAL:CG1	4:A:1059:HIS:N	2.76	0.47
4:A:1141:THR:HG21	4:A:1205:LYS:HD2	1.96	0.47
4:A:1143:LEU:O	4:A:1146:VAL:HG22	2.04	0.47
4:A:1281:ARG:HB2	4:A:1282:VAL:H	1.37	0.47
5:B:285:ILE:O	5:B:286:PHE:C	2.52	0.47
5:B:763:GLN:HG2	5:B:765:PRO:HD2	1.95	0.47
7:E:14:ARG:O	7:E:15:ALA:C	2.57	0.47
8:F:121:ALA:HA	8:F:124:GLU:OE1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F:133:VAL:HG22	8:F:146:TRP:C	2.39	0.47
8:F:154:ASP:HB3	8:F:155:LEU:HD23	1.96	0.47
9:H:117:SER:OG	9:H:120:GLY:HA2	2.14	0.47
12:K:105:PHE:C	12:K:107:THR:N	2.69	0.47
4:A:35:ILE:HA	4:A:52:GLY:O	2.13	0.47
4:A:37:PHE:CG	4:A:37:PHE:CA	2.89	0.47
4:A:399:HIS:HB3	4:A:400:PRO:CG	2.43	0.47
4:A:451:HIS:O	5:B:1137:CYS:SG	2.63	0.47
4:A:472:LEU:O	4:A:475:THR:HB	2.13	0.47
4:A:523:ILE:CG2	4:A:528:LEU:HB2	2.36	0.47
4:A:566:ILE:O	4:A:567:LYS:O	2.32	0.47
4:A:566:ILE:C	4:A:567:LYS:O	2.58	0.47
4:A:719:VAL:O	4:A:719:VAL:HG12	2.14	0.47
4:A:725:ALA:C	4:A:727:ASP:N	2.65	0.47
4:A:1015:VAL:O	4:A:1018:PHE:CA	2.61	0.47
4:A:1098:VAL:HB	4:A:1099:PRO:CD	2.44	0.47
4:A:1279:ILE:HD11	4:A:1312:ASN:N	2.29	0.47
5:B:102:VAL:CG2	5:B:112:LEU:HD22	2.44	0.47
5:B:128:LEU:HB2	5:B:168:GLY:C	2.35	0.47
5:B:189:LEU:O	5:B:192:LEU:N	2.47	0.47
5:B:291:ILE:HG22	5:B:297:ILE:HD13	1.96	0.47
5:B:487:THR:HG22	5:B:489:SER:H	1.75	0.47
5:B:509:ALA:C	5:B:510:LYS:CA	2.78	0.47
5:B:546:SER:HA	5:B:612:GLU:OE2	2.14	0.47
5:B:788:ARG:C	5:B:789:MET:HG2	2.39	0.47
5:B:987:LYS:CE	16:B:1308:ATP:O3G	2.63	0.47
5:B:1081:LEU:HD23	5:B:1081:LEU:HA	1.43	0.47
5:B:1117:GLN:O	5:B:1118:PRO:C	2.54	0.47
5:B:1162:ILE:HA	5:B:1171:VAL:CG2	2.45	0.47
7:E:107:THR:CG2	7:E:107:THR:O	2.60	0.47
8:F:155:LEU:HA	8:F:155:LEU:O	2.10	0.47
9:H:50:ALA:N	9:H:53:ASP:OD2	2.40	0.47
12:K:17:SER:O	12:K:18:LYS:C	2.49	0.47
12:K:40:HIS:CE1	12:K:63:VAL:HG11	2.49	0.47
4:A:92:HIS:O	4:A:92:HIS:CG	2.62	0.47
4:A:440:ASP:CB	4:A:441:PRO:HD2	2.37	0.47
4:A:532:ARG:C	4:A:534:LEU:N	2.66	0.47
4:A:715:GLU:O	4:A:719:VAL:HG23	2.14	0.47
4:A:751:SER:CB	5:B:1015:HIS:HE1	2.27	0.47
4:A:836:TYR:CD2	4:A:840:ARG:HD2	2.49	0.47
4:A:927:VAL:CG1	4:A:927:VAL:HG22	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:947:PHE:HE2	4:A:954:TRP:CE3	2.32	0.47
4:A:1054:LEU:HD23	4:A:1054:LEU:HA	1.48	0.47
4:A:1103:GLU:O	4:A:1108:ALA:HB2	2.14	0.47
4:A:1323:ASP:OD1	4:A:1325:THR:CG2	2.59	0.47
4:A:1393:ASN:O	4:A:1394:THR:O	2.33	0.47
5:B:366:GLN:O	5:B:367:LEU:O	2.31	0.47
5:B:957:ASN:O	5:B:960:GLY:N	2.47	0.47
5:B:1179:GLN:C	5:B:1180:PHE:CG	2.89	0.47
6:C:33:LEU:C	6:C:35:ARG:N	2.72	0.47
7:E:75:MET:HA	7:E:106:GLN:OE1	2.14	0.47
7:E:184:VAL:O	7:E:185:ALA:C	2.53	0.47
8:F:98:ALA:O	8:F:102:SER:HB3	2.14	0.47
10:I:13:MET:O	10:I:15:TYR:CE1	2.67	0.47
11:J:3:VAL:CA	11:J:53:HIS:CD2	2.96	0.47
13:L:28:LYS:C	13:L:29:TYR:CD1	2.92	0.47
2:T:15:DA:N3	2:T:16:DC:C6	2.48	0.47
4:A:59:GLY:N	4:A:67:CYS:SG	2.87	0.47
4:A:346:ASP:H	5:B:1154:ALA:HB1	1.79	0.47
4:A:376:TYR:O	4:A:376:TYR:HD2	1.98	0.47
4:A:588:LEU:CD1	4:A:588:LEU:CA	2.92	0.47
4:A:641:VAL:O	4:A:641:VAL:HG12	2.15	0.47
4:A:685:GLU:O	4:A:687:LYS:N	2.47	0.47
4:A:997:LEU:O	4:A:1053:PHE:CE2	2.68	0.47
4:A:1063:MET:CE	4:A:1063:MET:CG	2.92	0.47
4:A:1266:THR:O	4:A:1267:MET:C	2.54	0.47
4:A:1365:TYR:C	4:A:1367:HIS:N	2.71	0.47
5:B:22:SER:O	5:B:23:ALA:O	2.33	0.47
5:B:114:PRO:HG3	5:B:181:LEU:HD11	1.94	0.47
5:B:202:TYR:CD2	5:B:202:TYR:N	2.82	0.47
5:B:364:ILE:CD1	5:B:585:VAL:HG22	2.37	0.47
5:B:549:THR:HG22	5:B:550:ASP:H	1.79	0.47
5:B:1119:VAL:O	5:B:1119:VAL:CG2	2.51	0.47
6:C:134:ILE:HG23	6:C:136:ASP:H	1.80	0.47
6:C:227:THR:C	6:C:228:PHE:CG	2.93	0.47
8:F:90:ARG:HG3	8:F:94:LEU:HD12	1.95	0.47
10:I:88:SER:HA	10:I:100:PHE:CE1	2.49	0.47
13:L:53:HIS:C	13:L:55:ILE:N	2.73	0.47
13:L:64:LEU:CD2	13:L:64:LEU:HB3	2.42	0.47
3:N:10:DG:C2'	3:N:11:DG:OP2	2.39	0.47
4:A:215:SER:OG	4:A:217:LYS:N	2.47	0.47
4:A:443:LEU:HD23	4:A:444:PHE:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:464:PRO:O	4:A:465:TYR:HB2	2.13	0.47
4:A:779:PHE:HE1	4:A:784:LEU:HA	1.78	0.47
4:A:834:THR:HG21	4:A:1077:THR:CB	2.45	0.47
4:A:875:ALA:HA	4:A:878:ILE:CD1	2.40	0.47
4:A:954:TRP:HB3	4:A:955:PRO:HD2	1.95	0.47
4:A:1141:THR:O	4:A:1273:LEU:HB2	2.14	0.47
4:A:1284:MET:CE	4:A:1284:MET:HB2	2.44	0.47
4:A:1445:ILE:N	4:A:1445:ILE:HD12	2.30	0.47
5:B:203:PHE:HE1	5:B:212:LEU:HD12	1.80	0.47
5:B:423:LYS:N	5:B:426:LYS:HZ3	2.11	0.47
5:B:610:ASN:HB3	5:B:613:VAL:HG23	1.97	0.47
5:B:760:ASP:O	5:B:762:ASN:N	2.47	0.47
5:B:893:LEU:HD21	5:B:913:GLY:H	1.80	0.47
7:E:156:LEU:HD21	7:E:197:LYS:CB	2.44	0.47
9:H:109:LYS:CB	9:H:110:ASP:OD2	2.61	0.47
10:I:31:THR:HG22	10:I:32:CYS:CA	2.43	0.47
12:K:44:ASN:HA	12:K:61:TYR:HE2	1.80	0.47
4:A:34:LYS:C	4:A:35:ILE:HG12	2.40	0.47
4:A:131:SER:O	4:A:132:LYS:C	2.57	0.47
4:A:181:LEU:O	4:A:202:LEU:N	2.48	0.47
4:A:207:ILE:CA	4:A:210:ILE:HG13	2.41	0.47
4:A:223:GLY:O	4:A:224:PHE:CD1	2.68	0.47
4:A:239:LEU:C	4:A:240:PRO:O	2.58	0.47
4:A:437:MET:O	4:A:438:ASP:C	2.58	0.47
4:A:605:MET:CE	4:A:614:PHE:O	2.63	0.47
4:A:648:ASN:C	4:A:650:GLN:N	2.70	0.47
4:A:650:GLN:O	4:A:652:VAL:N	2.47	0.47
4:A:690:VAL:CG1	4:A:718:VAL:HG13	2.45	0.47
4:A:744:LYS:O	4:A:748:MET:HG3	2.15	0.47
4:A:780:VAL:H	5:B:699:GLU:CD	2.23	0.47
4:A:873:MET:HE1	4:A:1053:PHE:HZ	1.78	0.47
4:A:904:THR:HG22	4:A:905:ASP:H	1.80	0.47
4:A:1017:LEU:HB3	7:E:205:SER:CA	2.44	0.47
4:A:1098:VAL:N	4:A:1099:PRO:HD2	2.29	0.47
4:A:1132:LYS:O	4:A:1135:ARG:N	2.47	0.47
4:A:1203:ASN:O	4:A:1204:ASP:O	2.33	0.47
4:A:1207:LEU:HD11	4:A:1273:LEU:HD23	1.97	0.47
4:A:1288:ASP:OD1	4:A:1300:LYS:HE3	2.15	0.47
5:B:20:ASP:N	5:B:655:LYS:HZ1	2.05	0.47
5:B:28:GLU:C	5:B:30:SER:N	2.73	0.47
5:B:317:CYS:O	5:B:320:ASP:N	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:365:THR:HG23	5:B:367:LEU:N	2.30	0.47
5:B:582:VAL:C	5:B:584:GLY:N	2.68	0.47
5:B:614:SER:C	5:B:615:MET:HG2	2.39	0.47
5:B:883:LEU:CA	5:B:883:LEU:HB3	2.20	0.47
5:B:976:ILE:HA	5:B:990:ILE:HG21	1.97	0.47
5:B:1017:ILE:CB	5:B:1018:PRO:CD	2.91	0.47
5:B:1058:LEU:HA	5:B:1058:LEU:HD23	1.42	0.47
5:B:1162:ILE:HD13	5:B:1168:LEU:O	2.13	0.47
5:B:1219:ASP:C	5:B:1221:SER:N	2.69	0.47
6:C:67:LEU:HD23	6:C:144:ILE:HD12	1.96	0.47
6:C:193:TYR:N	6:C:193:TYR:CD2	2.82	0.47
7:E:20:LYS:CB	7:E:35:VAL:CG2	2.93	0.47
7:E:30:ILE:O	7:E:30:ILE:CG2	2.23	0.47
7:E:164:LEU:CD1	7:E:211:TYR:CD2	2.97	0.47
7:E:168:TYR:O	7:E:169:ARG:C	2.48	0.47
8:F:109:VAL:HG21	8:F:124:GLU:HG3	1.96	0.47
8:F:121:ALA:C	8:F:124:GLU:H	2.23	0.47
9:H:89:LEU:HD22	9:H:91:ASP:OD2	2.14	0.47
11:J:1:MET:HE2	11:J:56:LEU:HD12	1.95	0.47
11:J:1:MET:HE2	11:J:1:MET:HB2	1.25	0.47
4:A:33:ALA:O	4:A:83:HIS:CD2	2.68	0.47
4:A:344:ARG:C	4:A:345:VAL:CG1	2.88	0.47
4:A:475:THR:HG22	4:A:476:SER:N	2.30	0.47
4:A:494:SER:O	4:A:497:THR:HB	2.15	0.47
4:A:786:HIS:CD2	4:A:786:HIS:H	2.32	0.47
4:A:913:LEU:HD12	4:A:914:GLU:CA	2.45	0.47
4:A:948:VAL:O	4:A:950:GLY:N	2.48	0.47
4:A:1016:THR:O	4:A:1017:LEU:O	2.33	0.47
4:A:1131:ALA:O	4:A:1132:LYS:C	2.58	0.47
4:A:1171:GLN:HB2	4:A:1172:LEU:CD2	2.44	0.47
4:A:1209:MET:H	4:A:1231:ASP:CG	2.22	0.47
5:B:166:PHE:CD2	5:B:166:PHE:O	2.61	0.47
5:B:544:CYS:HB3	5:B:634:TYR:CZ	2.50	0.47
5:B:550:ASP:HA	5:B:551:PRO:HD3	1.47	0.47
5:B:707:PRO:HB3	5:B:741:CYS:SG	2.55	0.47
5:B:733:HIS:CB	5:B:733:HIS:C	2.84	0.47
5:B:752:ALA:C	5:B:754:SER:N	2.72	0.47
5:B:785:TYR:HD1	5:B:786:ASN:HA	1.79	0.47
5:B:999:MET:CB	5:B:1000:PRO:HD2	2.45	0.47
5:B:1007:VAL:HG22	5:B:1008:PRO:HD2	1.97	0.47
6:C:115:SER:CB	6:C:141:GLY:O	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:164:LEU:CD2	7:E:211:TYR:CD2	2.96	0.47
7:E:173:SER:C	7:E:175:LEU:H	2.22	0.47
8:F:97:ARG:NH1	8:F:100:GLN:OE1	2.39	0.47
9:H:4:THR:CG2	9:H:5:LEU:N	2.78	0.47
4:A:65:LEU:CG	4:A:65:LEU:HB2	2.19	0.47
4:A:100:LYS:HD2	4:A:104:GLU:OE1	2.15	0.47
4:A:523:ILE:HG21	4:A:531:ILE:HG22	1.96	0.47
4:A:1120:LEU:HD12	4:A:1120:LEU:HA	1.64	0.47
4:A:1135:ARG:O	4:A:1139:GLU:HB2	2.15	0.47
4:A:1212:VAL:O	4:A:1215:ARG:CB	2.62	0.47
4:A:1300:LYS:CD	4:A:1300:LYS:HE3	2.20	0.47
5:B:466:TRP:CG	5:B:466:TRP:O	2.64	0.47
5:B:633:VAL:CG1	5:B:634:TYR:N	2.69	0.47
5:B:844:SER:OG	5:B:996:ARG:N	2.42	0.47
5:B:938:SER:O	5:B:940:PRO:HD3	2.15	0.47
5:B:1029:CYS:O	5:B:1033:LYS:N	2.48	0.47
5:B:1031:LEU:O	5:B:1032:SER:C	2.57	0.47
5:B:1055:ILE:O	5:B:1058:LEU:HB2	2.15	0.47
5:B:1084:GLN:NE2	6:C:192:TRP:N	2.62	0.47
7:E:100:ILE:HD11	7:E:108:GLY:HA2	1.95	0.47
9:H:12:VAL:HA	9:H:28:ALA:HB2	1.95	0.47
12:K:101:LEU:HD22	12:K:101:LEU:O	2.14	0.47
4:A:88:LYS:CA	4:A:89:PRO:CD	2.93	0.47
4:A:371:ALA:C	4:A:373:THR:H	2.21	0.47
4:A:540:PHE:C	4:A:541:ILE:HG13	2.40	0.47
4:A:899:VAL:O	4:A:929:LEU:CD1	2.62	0.47
4:A:919:ILE:CG2	4:A:922:ASP:CB	2.83	0.47
4:A:1097:GLY:O	4:A:1099:PRO:N	2.47	0.47
4:A:1305:VAL:HG12	4:A:1306:LEU:O	2.15	0.47
4:A:1424:VAL:O	4:A:1426:GLU:N	2.49	0.47
5:B:32:ALA:O	5:B:33:VAL:C	2.55	0.47
5:B:205:ILE:C	5:B:207:GLY:H	2.23	0.47
5:B:284:ILE:C	5:B:286:PHE:N	2.71	0.47
5:B:322:PHE:CE2	10:I:30:ARG:HD2	2.49	0.47
5:B:684:LEU:O	5:B:685:LEU:C	2.54	0.47
6:C:22:LEU:CD2	6:C:22:LEU:O	2.63	0.47
6:C:144:ILE:HG22	6:C:145:CYS:HB3	1.96	0.47
7:E:157:SER:O	7:E:158:SER:C	2.57	0.47
10:I:52:ILE:C	10:I:52:ILE:CG1	2.88	0.47
2:T:23:DC:P	5:B:1123:SER:HG	2.38	0.46
3:N:2:DT:N3	3:N:3:DG:O6	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:445:ASN:HD22	4:A:446:ARG:C	2.22	0.46
4:A:591:PHE:CD2	4:A:595:THR:HG22	2.50	0.46
4:A:595:THR:CG2	4:A:596:THR:N	2.78	0.46
4:A:692:ASP:O	4:A:696:GLU:N	2.44	0.46
4:A:837:ILE:O	4:A:839:ARG:N	2.47	0.46
5:B:104:GLU:HG3	13:L:54:ARG:NH2	2.29	0.46
5:B:702:LEU:HD22	5:B:737:THR:CG2	2.44	0.46
5:B:747:MET:HB3	5:B:747:MET:HE3	1.40	0.46
5:B:748:ILE:HG13	5:B:749:LEU:N	2.29	0.46
5:B:766:ARG:O	5:B:767:ASN:C	2.58	0.46
5:B:788:ARG:O	5:B:789:MET:HG2	2.15	0.46
5:B:1117:GLN:HE21	5:B:1199:ALA:HB2	1.80	0.46
5:B:1162:ILE:N	5:B:1192:TYR:O	2.47	0.46
6:C:6:PRO:C	6:C:7:GLN:HG2	2.40	0.46
6:C:24:ASN:C	6:C:25:VAL:HG22	2.38	0.46
6:C:62:PHE:C	6:C:62:PHE:HD2	2.23	0.46
6:C:133:ILE:HD13	6:C:236:GLY:C	2.40	0.46
6:C:260:LEU:HD12	6:C:264:GLN:CG	2.45	0.46
11:J:2:ILE:HG23	11:J:3:VAL:N	2.29	0.46
1:R:8:G:C2	2:T:22:DT:C4	3.04	0.46
4:A:31:SER:HA	4:A:32:VAL:HG22	1.97	0.46
4:A:312:PRO:C	4:A:313:GLN:CG	2.87	0.46
4:A:494:SER:O	4:A:498:ARG:CG	2.60	0.46
4:A:563:PRO:CD	4:A:563:PRO:O	2.61	0.46
4:A:567:LYS:CE	9:H:95:TYR:CE2	2.98	0.46
4:A:784:LEU:HB2	4:A:786:HIS:HD2	1.79	0.46
4:A:830:LYS:HE3	4:A:1098:VAL:CG2	2.30	0.46
4:A:1119:TYR:CD2	4:A:1326:ARG:NH2	2.83	0.46
4:A:1135:ARG:O	4:A:1138:ILE:N	2.42	0.46
4:A:1161:THR:HG22	4:A:1162:VAL:CA	2.44	0.46
5:B:55:VAL:HG12	5:B:56:ASP:HA	1.96	0.46
5:B:203:PHE:CD1	5:B:461:LEU:CD2	2.98	0.46
5:B:236:HIS:HD2	5:B:389:ALA:CB	2.04	0.46
5:B:377:PHE:O	5:B:380:TYR:N	2.48	0.46
5:B:984:HIS:C	5:B:986:GLN:N	2.73	0.46
5:B:1096:ARG:HH11	5:B:1096:ARG:HG2	1.80	0.46
6:C:57:VAL:CB	11:J:57:ILE:HD11	2.45	0.46
7:E:161:LYS:O	7:E:164:LEU:N	2.48	0.46
7:E:170:LEU:HD22	7:E:174:GLN:HB2	1.96	0.46
10:I:109:ILE:CG2	10:I:110:PHE:N	2.72	0.46
4:A:374:LEU:O	4:A:436:ILE:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:981:LEU:HD11	4:A:1038:THR:N	2.31	0.46
4:A:990:VAL:CG2	4:A:1026:LEU:HB2	2.44	0.46
4:A:1106:ASN:O	4:A:1107:VAL:C	2.57	0.46
4:A:1394:THR:HG22	4:A:1395:GLY:N	2.27	0.46
5:B:63:ILE:O	5:B:67:SER:HB2	2.15	0.46
5:B:299:GLU:OE1	5:B:571:PRO:HG2	2.16	0.46
5:B:1159:ARG:HE	5:B:1193:GLN:CG	2.29	0.46
5:B:1173:ALA:C	5:B:1175:LEU:N	2.72	0.46
6:C:115:SER:O	6:C:116:LYS:C	2.53	0.46
7:E:39:LEU:C	7:E:41:ASP:N	2.70	0.46
7:E:110:PHE:CD1	7:E:110:PHE:C	2.94	0.46
7:E:182:ASP:HA	7:E:183:PRO:HD2	1.70	0.46
9:H:132:LEU:CB	9:H:132:LEU:CD2	2.85	0.46
10:I:17:ARG:CG	10:I:18:GLU:HB2	2.44	0.46
10:I:25:LEU:O	10:I:38:ALA:N	2.41	0.46
10:I:46:HIS:O	10:I:47:GLU:O	2.33	0.46
13:L:54:ARG:CG	13:L:54:ARG:NH1	2.73	0.46
4:A:68:GLN:HE21	4:A:80:HIS:HE2	1.61	0.46
4:A:140:THR:HG22	4:A:143:LYS:HZ2	1.79	0.46
4:A:345:VAL:HG12	5:B:1155:SER:HB3	1.96	0.46
4:A:358:ASN:ND2	5:B:833:TYR:OH	2.48	0.46
4:A:724:GLU:CG	4:A:724:GLU:CA	2.83	0.46
4:A:891:ALA:O	4:A:895:LYS:HG3	2.14	0.46
4:A:1402:PHE:CE2	4:A:1403:GLU:HG3	2.50	0.46
5:B:291:ILE:HD12	5:B:291:ILE:N	2.31	0.46
5:B:839:MET:O	5:B:990:ILE:HA	2.16	0.46
5:B:1103:ILE:N	5:B:1122:ARG:NH1	2.63	0.46
5:B:1189:ILE:CG2	5:B:1189:ILE:CG1	2.87	0.46
8:F:138:LEU:HD23	8:F:138:LEU:HA	1.95	0.46
9:H:125:LEU:CD1	9:H:125:LEU:CA	2.93	0.46
10:I:99:LEU:HA	10:I:99:LEU:HD23	1.60	0.46
11:J:64:ASN:HB3	11:J:65:PRO:HG3	1.97	0.46
1:R:9:G:C2'	1:R:10:A:OP2	2.57	0.46
4:A:169:ASN:ND2	4:A:169:ASN:N	2.60	0.46
4:A:618:GLU:O	4:A:619:LYS:C	2.58	0.46
4:A:922:ASP:CG	4:A:923:LEU:H	2.21	0.46
4:A:1161:THR:CB	4:A:1161:THR:N	2.64	0.46
4:A:1319:VAL:HG13	4:A:1320:PRO:HD2	1.97	0.46
4:A:1363:VAL:HB	4:A:1368:MET:HE2	1.96	0.46
4:A:1444:MET:HG2	4:A:1445:ILE:HD11	1.96	0.46
5:B:90:ILE:HG22	5:B:91:SER:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:174:LEU:HD23	5:B:202:TYR:CE1	2.50	0.46
5:B:474:SER:HA	5:B:476:ARG:CG	2.43	0.46
5:B:689:LEU:C	5:B:690:VAL:HG23	2.40	0.46
5:B:992:ILE:HD11	12:K:67:PHE:CE2	2.46	0.46
5:B:1012:ILE:HD12	5:B:1012:ILE:O	2.15	0.46
5:B:1082:MET:HA	6:C:189:THR:HA	1.97	0.46
5:B:1189:ILE:CB	5:B:1189:ILE:HA	2.29	0.46
6:C:63:ILE:HG22	6:C:67:LEU:HD11	1.97	0.46
6:C:92:CYS:O	6:C:96:SER:HB3	2.16	0.46
8:F:97:ARG:CD	8:F:100:GLN:OE1	2.57	0.46
8:F:136:ARG:HD2	8:F:146:TRP:CD1	2.50	0.46
9:H:93:TYR:HD1	9:H:143:LEU:CB	2.24	0.46
10:I:29:CYS:C	10:I:31:THR:H	2.23	0.46
4:A:128:ILE:CA	4:A:128:ILE:HB	2.18	0.46
4:A:206:GLU:HB2	4:A:207:ILE:CG1	2.46	0.46
4:A:244:PRO:CB	4:A:245:PRO:CD	2.93	0.46
4:A:346:ASP:O	4:A:347:PHE:C	2.56	0.46
4:A:523:ILE:CG2	4:A:531:ILE:HG22	2.46	0.46
4:A:567:LYS:CB	4:A:568:PRO:CD	2.92	0.46
4:A:567:LYS:HD3	9:H:95:TYR:HA	1.98	0.46
4:A:667:GLY:O	4:A:670:ILE:N	2.49	0.46
4:A:783:THR:HB	4:A:787:PHE:HD1	1.81	0.46
4:A:943:LEU:C	4:A:945:GLU:N	2.73	0.46
4:A:948:VAL:H	4:A:948:VAL:HG23	1.46	0.46
4:A:1019:CYS:O	4:A:1023:ARG:HG3	2.15	0.46
4:A:1095:THR:OG1	4:A:1113:THR:HB	2.16	0.46
4:A:1135:ARG:C	4:A:1138:ILE:H	2.22	0.46
5:B:69:LEU:HB2	5:B:90:ILE:CB	2.39	0.46
5:B:460:ALA:C	5:B:462:ALA:H	2.22	0.46
5:B:580:VAL:HG12	5:B:581:PHE:CA	2.43	0.46
5:B:662:MET:O	5:B:664:THR:N	2.49	0.46
5:B:784:ASN:ND2	5:B:788:ARG:CD	2.71	0.46
5:B:1072:MET:CG	5:B:1072:MET:CE	2.85	0.46
5:B:1162:ILE:HB	5:B:1192:TYR:O	2.16	0.46
6:C:34:ARG:O	6:C:35:ARG:C	2.58	0.46
6:C:123:ASN:ND2	6:C:125:MET:HG2	2.30	0.46
6:C:206:ASN:HD21	6:C:229:TYR:CB	2.28	0.46
7:E:165:LEU:N	7:E:165:LEU:HD23	2.30	0.46
8:F:77:ASP:O	8:F:78:GLN:HB2	2.16	0.46
10:I:32:CYS:SG	10:I:34:TYR:CB	3.04	0.46
11:J:57:ILE:CG2	11:J:57:ILE:N	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:90:VAL:CG1	4:A:297:GLN:CB	2.93	0.46
4:A:174:ILE:HG22	4:A:175:ARG:N	2.31	0.46
4:A:437:MET:N	4:A:440:ASP:OD2	2.42	0.46
4:A:572:TRP:HE3	4:A:572:TRP:N	2.14	0.46
4:A:595:THR:HG22	4:A:596:THR:N	2.30	0.46
4:A:666:ILE:HD11	5:B:1030:LEU:HD13	1.97	0.46
4:A:671:ALA:HB1	4:A:672:ASP:H	1.31	0.46
4:A:1349:TYR:HD2	4:A:1350:LYS:N	2.13	0.46
5:B:59:LEU:CD2	5:B:95:ILE:HD13	2.46	0.46
5:B:234:ILE:O	5:B:234:ILE:HG12	2.15	0.46
5:B:546:SER:N	5:B:634:TYR:HE2	2.13	0.46
5:B:654:ARG:O	5:B:656:GLY:N	2.48	0.46
5:B:861:ASP:O	5:B:963:PHE:HA	2.15	0.46
5:B:1201:LYS:CE	5:B:1205:GLN:OE1	2.64	0.46
6:C:74:SER:CB	6:C:77:ILE:HG13	2.46	0.46
7:E:178:ILE:CG1	7:E:179:GLN:N	2.41	0.46
9:H:11:GLN:C	9:H:28:ALA:HB1	2.41	0.46
12:K:34:THR:HG23	12:K:35:PHE:N	2.31	0.46
4:A:18:GLN:HE22	4:A:1418:LEU:CB	2.08	0.46
4:A:114:LEU:O	4:A:115:LEU:CG	2.64	0.46
4:A:243:PRO:O	4:A:244:PRO:C	2.59	0.46
4:A:304:MET:O	4:A:326:ARG:HB2	2.15	0.46
4:A:388:LEU:C	4:A:388:LEU:HD23	2.40	0.46
4:A:441:PRO:HA	4:A:458:HIS:O	2.16	0.46
4:A:500:GLU:O	4:A:504:LEU:HB2	2.15	0.46
4:A:518:LYS:CB	4:A:519:PRO:CD	2.92	0.46
4:A:782:ARG:NH2	5:B:701:ILE:O	2.46	0.46
4:A:862:ASN:HA	7:E:174:GLN:HB3	1.97	0.46
4:A:1386:ARG:H	4:A:1386:ARG:HG2	1.54	0.46
4:A:1428:VAL:HG13	5:B:1151:LEU:HD21	1.97	0.46
4:A:1433:MET:HE1	8:F:92:ARG:HH12	1.75	0.46
5:B:310:MET:HE2	5:B:310:MET:CB	2.45	0.46
5:B:345:LYS:O	5:B:347:LYS:N	2.49	0.46
5:B:457:LEU:HA	5:B:457:LEU:HD23	1.29	0.46
5:B:633:VAL:HG12	5:B:634:TYR:H	1.74	0.46
5:B:702:LEU:HD22	5:B:737:THR:HG22	1.98	0.46
5:B:809:MET:O	5:B:810:GLU:C	2.58	0.46
5:B:897:GLY:O	5:B:898:LEU:HD23	2.16	0.46
5:B:952:VAL:HG22	5:B:966:VAL:HG13	1.97	0.46
5:B:999:MET:HG3	5:B:1000:PRO:HD2	1.98	0.46
5:B:1073:TYR:N	5:B:1073:TYR:HD1	2.08	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:205:LYS:CD	6:C:205:LYS:HE3	2.17	0.46
7:E:79:TRP:CD1	7:E:100:ILE:HG13	2.50	0.46
8:F:137:TYR:HA	8:F:142:SER:O	2.16	0.46
9:H:113:ALA:HA	9:H:126:GLU:HA	1.98	0.46
9:H:135:LEU:CD2	9:H:136:LYS:HD2	2.45	0.46
11:J:7:CYS:O	11:J:8:PHE:C	2.57	0.46
11:J:8:PHE:N	11:J:49:MET:HE1	2.31	0.46
4:A:135:PHE:HB2	4:A:222:LEU:HA	1.97	0.46
4:A:335:ARG:O	4:A:339:ASN:N	2.36	0.46
4:A:432:VAL:C	4:A:433:GLU:O	2.56	0.46
4:A:455:MET:CE	5:B:1134:GLU:HB3	2.46	0.46
4:A:538:ASP:OD1	9:H:22:LYS:HB2	2.16	0.46
4:A:583:PRO:O	4:A:610:GLY:CA	2.55	0.46
4:A:655:PHE:O	4:A:657:LEU:N	2.48	0.46
4:A:815:PHE:C	4:A:817:ALA:N	2.71	0.46
4:A:1057:VAL:HG12	4:A:1058:VAL:C	2.41	0.46
4:A:1075:PRO:HA	4:A:1078:GLN:HG3	1.97	0.46
4:A:1283:VAL:O	4:A:1307:GLU:N	2.33	0.46
4:A:1285:MET:HG3	4:A:1307:GLU:OE2	2.16	0.46
4:A:1355:VAL:CA	4:A:1355:VAL:CG2	2.81	0.46
4:A:1377:THR:C	4:A:1379:GLY:N	2.73	0.46
5:B:424:LEU:O	5:B:425:THR:C	2.56	0.46
5:B:955:THR:HG22	5:B:956:THR:HB	1.98	0.46
6:C:244:VAL:HG23	6:C:245:VAL:N	2.24	0.46
7:E:117:THR:O	7:E:120:ALA:N	2.48	0.46
8:F:81:THR:HG21	8:F:146:TRP:HE1	1.80	0.46
9:H:22:LYS:O	9:H:23:VAL:CG2	2.64	0.46
9:H:23:VAL:HG13	9:H:42:ILE:H	1.81	0.46
10:I:52:ILE:HG13	10:I:52:ILE:O	2.16	0.46
10:I:109:ILE:HG22	10:I:110:PHE:N	2.27	0.46
11:J:55:ASP:O	11:J:56:LEU:C	2.55	0.46
4:A:139:TRP:C	4:A:141:LEU:H	2.24	0.46
4:A:244:PRO:CB	4:A:245:PRO:HD2	2.42	0.46
4:A:321:PRO:C	4:A:321:PRO:HG2	2.36	0.46
4:A:368:LYS:C	4:A:370:ILE:N	2.74	0.46
4:A:387:ARG:O	4:A:388:LEU:C	2.55	0.46
4:A:404:TYR:N	4:A:404:TYR:HD1	2.11	0.46
4:A:423:ASP:O	4:A:424:ILE:C	2.53	0.46
4:A:550:LEU:C	4:A:552:TRP:N	2.71	0.46
4:A:1276:VAL:O	4:A:1277:GLU:C	2.59	0.46
4:A:1284:MET:CG	4:A:1306:LEU:HD23	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1299:VAL:HG12	4:A:1300:LYS:CB	2.39	0.46
4:A:1409:LEU:HD23	4:A:1409:LEU:HA	1.57	0.46
4:A:1437:GLY:HA3	8:F:88:TYR:CE2	2.50	0.46
5:B:22:SER:O	5:B:654:ARG:HG3	2.15	0.46
5:B:283:VAL:O	5:B:284:ILE:C	2.53	0.46
5:B:293:PRO:HG2	5:B:296:GLU:HB2	1.98	0.46
5:B:464:GLY:CA	5:B:478:GLY:HA2	2.41	0.46
5:B:646:LEU:C	5:B:646:LEU:HA	2.17	0.46
5:B:702:LEU:HD12	5:B:702:LEU:HA	1.63	0.46
5:B:758:PHE:CE2	5:B:1044:ALA:HB1	2.51	0.46
5:B:1135:ARG:O	5:B:1138:MET:N	2.49	0.46
6:C:20:PHE:CD2	6:C:20:PHE:N	2.83	0.46
6:C:83:SER:C	6:C:85:ASP:N	2.74	0.46
9:H:63:LEU:C	9:H:63:LEU:CB	2.81	0.46
9:H:131:ASN:CB	9:H:131:ASN:ND2	2.65	0.46
12:K:34:THR:C	12:K:34:THR:HG22	2.41	0.46
4:A:90:VAL:C	4:A:91:PHE:O	2.58	0.45
4:A:267:ALA:O	4:A:270:LEU:N	2.49	0.45
4:A:347:PHE:HA	5:B:1107:ALA:HA	1.98	0.45
4:A:575:LYS:O	4:A:576:GLN:C	2.58	0.45
4:A:704:ALA:HB2	4:A:710:LEU:HA	1.98	0.45
4:A:885:THR:HG22	4:A:940:ARG:HG3	1.97	0.45
4:A:900:ASP:C	4:A:907:THR:HG23	2.42	0.45
4:A:1261:LYS:C	4:A:1263:ILE:N	2.71	0.45
4:A:1288:ASP:HA	4:A:1300:LYS:HZ1	1.81	0.45
4:A:1294:PRO:HB2	4:A:1295:THR:CG2	2.42	0.45
5:B:125:SER:HB2	5:B:171:PRO:CA	2.46	0.45
5:B:170:LEU:HD12	5:B:171:PRO:CD	2.45	0.45
5:B:213:ILE:H	5:B:479:VAL:HG12	1.80	0.45
5:B:281:PRO:C	5:B:283:VAL:N	2.69	0.45
5:B:466:TRP:O	5:B:466:TRP:CD1	2.69	0.45
5:B:597:MET:HG3	5:B:601:ARG:HD2	1.98	0.45
5:B:635:ARG:HB2	5:B:636:PRO:CD	1.97	0.45
5:B:738:PHE:C	5:B:739:THR:HG22	2.39	0.45
5:B:999:MET:HG2	5:B:1008:PRO:HG2	1.97	0.45
5:B:1079:LYS:HG3	6:C:180:TYR:OH	2.15	0.45
6:C:100:THR:N	6:C:119:VAL:HG12	2.30	0.45
7:E:118:PRO:C	7:E:120:ALA:N	2.68	0.45
7:E:167:ARG:O	7:E:168:TYR:CG	2.69	0.45
7:E:200:ARG:CG	7:E:200:ARG:HH11	2.29	0.45
9:H:103:LYS:CB	9:H:115:TYR:HD1	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:H:137:GLN:O	9:H:139:ASN:O	2.33	0.45
4:A:21:LEU:HA	5:B:1213:THR:HG23	1.97	0.45
4:A:53:LEU:CD1	4:A:263:THR:HG22	2.46	0.45
4:A:288:ALA:HA	4:A:291:GLU:CG	2.46	0.45
4:A:458:HIS:CE1	4:A:507:VAL:HG21	2.51	0.45
4:A:590:ARG:CD	4:A:592:ASP:OD1	2.62	0.45
4:A:848:ILE:HD12	4:A:848:ILE:HG23	1.86	0.45
4:A:1273:LEU:O	4:A:1274:ARG:CB	2.64	0.45
4:A:1329:THR:HG22	4:A:1330:ASN:N	2.30	0.45
4:A:1338:VAL:HG12	4:A:1339:LEU:CD2	2.46	0.45
4:A:1355:VAL:HG12	4:A:1356:ILE:HG12	1.97	0.45
5:B:258:LEU:O	5:B:259:TYR:O	2.34	0.45
5:B:310:MET:CE	5:B:310:MET:HB2	2.46	0.45
5:B:578:THR:O	5:B:590:HIS:N	2.50	0.45
5:B:854:LEU:HD23	5:B:854:LEU:HA	1.19	0.45
9:H:39:THR:CB	9:H:124:ARG:HB3	2.47	0.45
4:A:381:THR:HG23	4:A:382:PRO:CG	2.43	0.45
4:A:393:ARG:O	4:A:394:ASN:C	2.56	0.45
4:A:548:ASN:HD21	12:K:47:ARG:HE	1.63	0.45
4:A:582:ILE:CG2	4:A:610:GLY:HA2	2.46	0.45
4:A:622:VAL:C	4:A:623:GLY:O	2.58	0.45
4:A:690:VAL:O	4:A:691:LEU:C	2.57	0.45
4:A:960:ILE:C	4:A:962:ARG:H	2.22	0.45
4:A:1317:MET:O	4:A:1322:ILE:HD11	2.17	0.45
4:A:1348:LEU:C	4:A:1348:LEU:HD12	2.25	0.45
4:A:1394:THR:HG22	4:A:1395:GLY:C	2.41	0.45
5:B:44:VAL:O	5:B:45:SER:C	2.59	0.45
5:B:426:LYS:HG2	5:B:430:ARG:NH1	2.31	0.45
5:B:427:ASP:CA	5:B:430:ARG:HD2	2.46	0.45
5:B:513:GLN:O	5:B:514:LEU:C	2.53	0.45
5:B:855:PHE:CD1	5:B:855:PHE:C	2.85	0.45
5:B:973:ILE:CG2	5:B:974:PRO:HD2	2.31	0.45
5:B:1030:LEU:HD11	5:B:1067:ARG:C	2.41	0.45
7:E:42:PHE:HZ	7:E:58:MET:CE	2.19	0.45
8:F:90:ARG:O	8:F:94:LEU:CB	2.57	0.45
9:H:4:THR:HG22	9:H:5:LEU:N	2.31	0.45
13:L:55:ILE:HG12	13:L:55:ILE:H	1.51	0.45
4:A:135:PHE:CD1	4:A:222:LEU:HB3	2.51	0.45
4:A:495:GLU:HA	4:A:498:ARG:CG	2.45	0.45
4:A:547:LEU:CD2	12:K:58:PHE:CD1	2.89	0.45
4:A:709:THR:C	4:A:711:ARG:H	2.23	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:784:LEU:HD23	4:A:784:LEU:N	2.14	0.45
4:A:1116:LEU:HD23	4:A:1308:THR:HG21	1.98	0.45
4:A:1349:TYR:C	4:A:1351:GLU:N	2.71	0.45
4:A:1388:GLY:C	4:A:1390:ASN:H	2.24	0.45
5:B:205:ILE:CG2	5:B:206:ASN:HD21	2.28	0.45
5:B:535:LEU:HD23	5:B:535:LEU:HA	1.13	0.45
5:B:780:VAL:HG12	5:B:817:LEU:HD23	1.97	0.45
5:B:801:LYS:HG2	11:J:52:THR:HG23	1.98	0.45
5:B:975:GLN:HE22	5:B:1100:ASP:HB2	1.81	0.45
5:B:1000:PRO:O	5:B:1007:VAL:HG22	2.16	0.45
5:B:1039:GLY:HA2	11:J:51:LEU:CD2	2.47	0.45
5:B:1083:ALA:C	5:B:1084:GLN:OE1	2.60	0.45
6:C:80:LEU:HD12	6:C:94:LYS:O	2.16	0.45
6:C:107:SER:HB2	6:C:109:SER:H	1.81	0.45
7:E:44:ALA:O	7:E:45:LYS:C	2.59	0.45
9:H:109:LYS:CD	9:H:109:LYS:HE3	2.21	0.45
9:H:113:ALA:CA	9:H:125:LEU:O	2.64	0.45
10:I:75:CYS:HB3	10:I:103:CYS:HB2	1.98	0.45
11:J:49:MET:O	11:J:49:MET:HG3	2.08	0.45
4:A:245:PRO:CB	5:B:1201:LYS:NZ	2.79	0.45
4:A:324:SER:O	4:A:324:SER:OG	2.01	0.45
4:A:335:ARG:HH11	4:A:335:ARG:HD2	1.54	0.45
4:A:531:ILE:HG12	4:A:617:VAL:HG12	1.99	0.45
4:A:578:LEU:C	4:A:578:LEU:HD12	2.41	0.45
4:A:864:ILE:O	4:A:864:ILE:CG2	2.65	0.45
4:A:904:THR:CG2	4:A:905:ASP:H	2.30	0.45
4:A:1057:VAL:CG1	4:A:1057:VAL:CG2	2.80	0.45
4:A:1228:TRP:N	4:A:1228:TRP:CD2	2.83	0.45
4:A:1278:ASN:CB	4:A:1278:ASN:HA	2.22	0.45
5:B:293:PRO:HA	10:I:12:ASN:HD21	1.81	0.45
5:B:297:ILE:C	5:B:299:GLU:H	2.23	0.45
5:B:521:LEU:CD2	5:B:635:ARG:HD3	2.47	0.45
5:B:604:ARG:HH21	5:B:614:SER:HA	1.80	0.45
5:B:773:MET:HE2	5:B:773:MET:HB2	1.84	0.45
5:B:780:VAL:HG12	5:B:817:LEU:CD2	2.47	0.45
5:B:834:ASN:O	5:B:834:ASN:CG	2.60	0.45
5:B:979:LYS:C	5:B:980:PHE:HD1	2.24	0.45
5:B:1017:ILE:HB	5:B:1018:PRO:HD3	1.98	0.45
5:B:1151:LEU:CD1	5:B:1151:LEU:CD2	2.83	0.45
6:C:29:MET:C	6:C:31:ASN:N	2.72	0.45
6:C:254:LYS:HE2	12:K:38:GLU:OE2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:9:ILE:HD11	7:E:53:PRO:CD	2.42	0.45
7:E:12:LEU:O	7:E:13:TRP:C	2.54	0.45
8:F:82:THR:HG22	8:F:83:PRO:HD2	1.99	0.45
8:F:83:PRO:HG2	8:F:84:TYR:N	2.31	0.45
12:K:40:HIS:C	12:K:42:LEU:N	2.74	0.45
4:A:32:VAL:HG12	4:A:57:ARG:HD2	1.99	0.45
4:A:70:CYS:O	4:A:71:GLN:CD	2.60	0.45
4:A:206:GLU:O	4:A:210:ILE:HD11	2.17	0.45
4:A:709:THR:O	4:A:711:ARG:N	2.49	0.45
4:A:877:HIS:CA	4:A:877:HIS:CG	2.89	0.45
4:A:999:VAL:HG12	4:A:1000:LEU:N	2.25	0.45
4:A:1097:GLY:O	4:A:1099:PRO:HD2	2.15	0.45
4:A:1118:VAL:O	4:A:1118:VAL:CG2	2.65	0.45
4:A:1144:LYS:C	4:A:1146:VAL:H	2.25	0.45
4:A:1193:LEU:HB3	4:A:1240:CYS:HB2	1.99	0.45
4:A:1289:ARG:O	4:A:1301:GLU:O	2.35	0.45
5:B:265:SER:O	5:B:266:ALA:CB	2.51	0.45
5:B:276:ILE:O	5:B:278:GLN:N	2.50	0.45
5:B:279:ASP:C	5:B:280:ILE:HG12	2.42	0.45
5:B:326:ASP:C	5:B:328:GLU:N	2.71	0.45
5:B:421:PHE:HA	5:B:453:ILE:HD11	1.99	0.45
5:B:422:LYS:C	5:B:426:LYS:HZ2	2.24	0.45
5:B:457:LEU:O	5:B:461:LEU:HB2	2.16	0.45
5:B:536:VAL:CG1	5:B:537:LYS:N	2.65	0.45
5:B:633:VAL:O	5:B:634:TYR:CB	2.32	0.45
5:B:648:HIS:CD2	5:B:648:HIS:C	2.94	0.45
5:B:680:THR:O	5:B:681:TRP:C	2.57	0.45
5:B:1058:LEU:O	5:B:1059:LEU:C	2.57	0.45
5:B:1158:PHE:CD2	5:B:1198:TYR:HD1	2.34	0.45
6:C:66:ARG:HH21	11:J:4:PRO:HA	1.82	0.45
6:C:136:ASP:OD2	6:C:140:ASN:O	2.33	0.45
6:C:142:VAL:CG1	6:C:143:LEU:N	2.78	0.45
7:E:46:TYR:CE2	7:E:57:MET:O	2.69	0.45
7:E:112:TYR:CZ	7:E:136:ASN:CB	3.00	0.45
7:E:168:TYR:O	7:E:169:ARG:CB	2.61	0.45
8:F:83:PRO:O	8:F:151:LEU:HA	2.17	0.45
9:H:15:VAL:HG21	9:H:49:VAL:HG12	1.99	0.45
12:K:7:PHE:CB	12:K:10:PHE:CZ	3.00	0.45
4:A:13:THR:HB	4:A:15:LYS:HZ1	1.78	0.45
4:A:47:ARG:HH21	4:A:255:SER:HB3	1.82	0.45
4:A:102:VAL:HG21	4:A:211:PHE:HZ	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:227:VAL:CB	4:A:227:VAL:N	2.72	0.45
4:A:305:ASP:C	4:A:306:ASN:CG	2.82	0.45
4:A:639:PRO:HG2	4:A:640:GLN:N	2.31	0.45
4:A:1028:THR:C	4:A:1030:ARG:N	2.69	0.45
4:A:1228:TRP:HB2	4:A:1229:SER:O	2.17	0.45
5:B:225:VAL:HG23	5:B:396:ASP:OD2	2.17	0.45
5:B:276:ILE:C	5:B:278:GLN:N	2.70	0.45
5:B:317:CYS:C	5:B:319:GLU:N	2.73	0.45
5:B:488:TYR:O	5:B:489:SER:C	2.57	0.45
5:B:498:THR:HG21	5:B:537:LYS:HG2	1.99	0.45
5:B:617:ARG:CZ	5:B:619:ILE:HD13	2.46	0.45
5:B:781:PHE:CD1	5:B:781:PHE:C	2.94	0.45
5:B:880:THR:CB	5:B:880:THR:H	2.29	0.45
5:B:953:LEU:HG	5:B:954:VAL:N	2.31	0.45
5:B:1051:THR:HB	5:B:1054:GLY:H	1.81	0.45
5:B:1065:GLN:NE2	5:B:1066:SER:N	2.64	0.45
6:C:10:ILE:CD1	6:C:20:PHE:HB3	2.45	0.45
6:C:114:TYR:CD2	6:C:140:ASN:CB	2.97	0.45
6:C:120:ILE:H	6:C:120:ILE:HG12	1.58	0.45
6:C:155:LEU:HB3	6:C:156:THR:H	1.47	0.45
7:E:23:VAL:HG12	7:E:28:TYR:HB2	1.98	0.45
7:E:117:THR:C	7:E:119:SER:N	2.73	0.45
7:E:161:LYS:C	7:E:163:GLU:H	2.16	0.45
7:E:175:LEU:HB3	7:E:176:PRO:CD	2.46	0.45
8:F:93:ILE:CD1	8:F:134:ILE:HD11	2.46	0.45
8:F:153:VAL:CG1	8:F:153:VAL:CA	2.80	0.45
10:I:20:LYS:O	10:I:21:GLU:O	2.35	0.45
12:K:46:ILE:CG2	12:K:50:LEU:CD1	2.92	0.45
4:A:13:THR:HG21	4:A:15:LYS:HE3	1.99	0.45
4:A:22:PHE:HB2	5:B:1211:ASN:CG	2.41	0.45
4:A:30:ILE:HA	5:B:1183:LYS:NZ	2.31	0.45
4:A:577:ILE:O	4:A:580:VAL:N	2.26	0.45
4:A:707:GLY:O	4:A:708:MET:CB	2.63	0.45
5:B:36:ALA:O	5:B:37:PHE:O	2.34	0.45
5:B:55:VAL:O	5:B:57:TYR:N	2.49	0.45
5:B:63:ILE:HA	5:B:421:PHE:HE2	1.74	0.45
5:B:92:PHE:HD2	5:B:132:VAL:HG22	1.81	0.45
5:B:276:ILE:CG2	5:B:277:LYS:N	2.76	0.45
5:B:286:PHE:C	5:B:291:ILE:O	2.60	0.45
5:B:308:TRP:C	5:B:311:LEU:HB2	2.41	0.45
5:B:413:LEU:HA	5:B:413:LEU:HD23	1.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:545:ILE:HD12	5:B:545:ILE:N	2.32	0.45
5:B:583:ASN:OD1	5:B:628:THR:HB	2.16	0.45
5:B:797:TYR:OH	5:B:971:THR:HG21	2.16	0.45
5:B:837:ASP:OD1	5:B:1020:ARG:NH1	2.50	0.45
5:B:913:GLY:HA2	5:B:938:SER:HB2	1.97	0.45
5:B:1065:GLN:HG3	5:B:1065:GLN:O	2.16	0.45
5:B:1135:ARG:O	5:B:1136:ASP:C	2.58	0.45
5:B:1152:MET:O	5:B:1157:ALA:HB2	2.16	0.45
6:C:33:LEU:HG	6:C:37:MET:CE	2.47	0.45
6:C:183:TRP:CG	6:C:207:CYS:HG	2.34	0.45
7:E:111:VAL:CG1	7:E:111:VAL:C	2.89	0.45
7:E:124:VAL:CG2	7:E:132:ILE:CG2	2.70	0.45
7:E:157:SER:HB2	7:E:159:ASP:HB2	1.99	0.45
2:T:13:DA:H2"	2:T:14:DG:H8	1.82	0.45
4:A:128:ILE:CA	4:A:128:ILE:CG2	2.84	0.45
4:A:141:LEU:HD23	4:A:141:LEU:HA	1.82	0.45
4:A:359:LEU:HD23	4:A:359:LEU:HA	1.52	0.45
4:A:361:LEU:HA	4:A:471:ASN:ND2	2.31	0.45
4:A:443:LEU:HD12	5:B:1146:PHE:CZ	2.51	0.45
4:A:505:CYS:SG	5:B:1141:HIS:CD2	2.98	0.45
4:A:518:LYS:HA	4:A:631:HIS:CD2	2.52	0.45
4:A:1133:LEU:O	4:A:1136:SER:N	2.50	0.45
4:A:1147:THR:HA	4:A:1197:LEU:HD23	1.98	0.45
4:A:1161:THR:HG21	4:A:1163:ILE:HG13	1.96	0.45
4:A:1208:THR:O	4:A:1211:GLN:HB2	2.17	0.45
5:B:57:TYR:O	5:B:58:THR:C	2.60	0.45
5:B:258:LEU:HD21	5:B:313:MET:HE1	1.99	0.45
5:B:660:LYS:HE2	5:B:679:TYR:CZ	2.52	0.45
5:B:789:MET:CE	5:B:965:LYS:CB	2.94	0.45
5:B:795:ILE:HD12	5:B:795:ILE:N	2.32	0.45
6:C:21:ILE:HG22	6:C:22:LEU:N	2.32	0.45
6:C:32:SER:HB3	12:K:41:THR:HG22	1.99	0.45
6:C:80:LEU:CD1	6:C:81:GLU:H	2.24	0.45
7:E:20:LYS:CB	7:E:35:VAL:HG22	2.46	0.45
7:E:46:TYR:CD2	7:E:57:MET:O	2.70	0.45
8:F:97:ARG:O	8:F:98:ALA:C	2.59	0.45
8:F:130:ILE:HA	8:F:131:PRO:HD3	1.53	0.45
9:H:131:ASN:C	9:H:133:ASN:N	2.74	0.45
9:H:132:LEU:CA	9:H:133:ASN:N	2.68	0.45
12:K:92:ASN:HA	12:K:95:ILE:CD1	2.33	0.45
1:R:2:U:C5	1:R:3:C:C4	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:9:ALA:CB	5:B:1193:GLN:HB2	2.47	0.45
4:A:15:LYS:CD	4:A:15:LYS:HE3	2.24	0.45
4:A:88:LYS:HD2	4:A:293:GLU:OE2	2.17	0.45
4:A:233:TRP:C	4:A:235:ILE:H	2.25	0.45
4:A:289:ILE:CG2	4:A:290:GLU:N	2.80	0.45
4:A:298:PHE:HD2	4:A:299:HIS:H	1.64	0.45
4:A:321:PRO:CA	4:A:321:PRO:O	2.57	0.45
4:A:423:ASP:HB3	4:A:424:ILE:H	1.48	0.45
4:A:665:GLY:O	4:A:666:ILE:C	2.46	0.45
4:A:733:ALA:C	4:A:735:VAL:N	2.76	0.45
4:A:1019:CYS:C	4:A:1021:LEU:N	2.72	0.45
4:A:1137:ALA:C	4:A:1138:ILE:HD13	2.42	0.45
4:A:1308:THR:HG22	4:A:1309:ASP:N	2.31	0.45
4:A:1386:ARG:HA	4:A:1390:ASN:HB2	1.99	0.45
5:B:94:LYS:CG	5:B:94:LYS:CE	2.85	0.45
5:B:460:ALA:C	5:B:462:ALA:N	2.74	0.45
5:B:782:LEU:HB3	5:B:784:ASN:OD1	2.17	0.45
5:B:786:ASN:ND2	5:B:786:ASN:O	2.50	0.45
5:B:936:ASP:OD2	5:B:938:SER:OG	2.24	0.45
5:B:1077:THR:CG2	5:B:1079:LYS:CB	2.95	0.45
6:C:137:LYS:CD	6:C:137:LYS:HE2	2.21	0.45
6:C:250:THR:O	6:C:253:LYS:HB2	2.16	0.45
7:E:100:ILE:CG2	7:E:101:GLN:N	2.74	0.45
7:E:142:VAL:HG13	7:E:143:ASN:H	1.82	0.45
7:E:170:LEU:CD1	7:E:175:LEU:CD2	2.93	0.45
7:E:202:SER:HB3	7:E:205:SER:O	2.16	0.45
3:N:12:DT:C3'	7:E:119:SER:OG	2.65	0.44
4:A:18:GLN:O	4:A:19:PHE:C	2.60	0.44
4:A:96:ILE:HG21	4:A:176:LYS:HE3	1.99	0.44
4:A:97:ALA:C	4:A:98:LYS:O	2.60	0.44
4:A:413:ILE:CD1	4:A:413:ILE:N	2.80	0.44
4:A:629:LEU:O	4:A:629:LEU:CD2	2.66	0.44
4:A:666:ILE:H	4:A:666:ILE:HD12	1.82	0.44
4:A:666:ILE:O	4:A:667:GLY:C	2.57	0.44
4:A:924:LYS:HE2	4:A:924:LYS:H	1.81	0.44
4:A:1336:MET:HE1	4:A:1381:LEU:HG	1.98	0.44
4:A:1438:THR:O	4:A:1438:THR:HG22	2.17	0.44
5:B:26:THR:O	5:B:26:THR:OG1	2.27	0.44
5:B:211:VAL:O	5:B:480:SER:HA	2.16	0.44
5:B:785:TYR:C	5:B:787:VAL:N	2.73	0.44
5:B:846:ILE:HG13	5:B:846:ILE:H	1.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:1098:MET:O	5:B:1099:VAL:C	2.57	0.44
5:B:1170:THR:CG2	5:B:1170:THR:O	2.63	0.44
8:F:87:LYS:O	8:F:88:TYR:C	2.55	0.44
8:F:109:VAL:HG11	8:F:123:LYS:HG2	1.98	0.44
10:I:65:ASP:C	10:I:65:ASP:OD1	2.60	0.44
12:K:24:ASP:OD1	12:K:26:LYS:HB2	2.17	0.44
4:A:152:VAL:HG12	4:A:153:PRO:N	2.32	0.44
4:A:199:LEU:O	4:A:201:VAL:CG2	2.65	0.44
4:A:531:ILE:CG1	4:A:531:ILE:C	2.90	0.44
4:A:560:ILE:HG22	4:A:561:PRO:N	2.31	0.44
4:A:571:LEU:HA	4:A:571:LEU:HD12	1.41	0.44
4:A:826:ASP:O	4:A:829:VAL:CA	2.65	0.44
4:A:836:TYR:CZ	4:A:1403:GLU:OE2	2.70	0.44
4:A:875:ALA:C	4:A:877:HIS:N	2.74	0.44
4:A:924:LYS:C	4:A:927:VAL:HB	2.42	0.44
4:A:986:ILE:HG21	4:A:1028:THR:HG23	1.99	0.44
4:A:1118:VAL:HG12	4:A:1327:ILE:CD1	2.46	0.44
4:A:1195:LEU:CG	4:A:1267:MET:HE1	2.47	0.44
4:A:1209:MET:C	4:A:1212:VAL:HG23	2.42	0.44
5:B:170:LEU:CD1	5:B:171:PRO:HG2	2.45	0.44
5:B:294:ASP:H	10:I:12:ASN:HD21	1.65	0.44
5:B:563:MET:HA	5:B:589:VAL:O	2.16	0.44
5:B:627:PHE:HB3	5:B:632:ARG:HH11	1.82	0.44
5:B:694:ASP:O	5:B:695:ALA:C	2.59	0.44
5:B:863:GLU:OE2	5:B:873:THR:CA	2.64	0.44
6:C:62:PHE:O	6:C:62:PHE:HD2	2.00	0.44
7:E:108:GLY:O	7:E:132:ILE:HA	2.17	0.44
9:H:10:PHE:HB3	9:H:29:ALA:O	2.17	0.44
9:H:59:ILE:CD1	9:H:142:LEU:HB2	2.47	0.44
9:H:93:TYR:HD2	9:H:145:ARG:CG	2.29	0.44
9:H:95:TYR:C	9:H:96:VAL:HG23	2.42	0.44
10:I:66:PRO:HD2	10:I:67:THR:HG23	1.98	0.44
10:I:85:PHE:HA	10:I:100:PHE:O	2.18	0.44
11:J:16:ASP:OD1	11:J:16:ASP:C	2.59	0.44
12:K:42:LEU:O	12:K:43:GLY:C	2.60	0.44
13:L:46:VAL:HG13	13:L:56:LEU:HD12	1.99	0.44
4:A:42:ASP:OD1	4:A:45:GLN:C	2.60	0.44
4:A:49:LYS:CD	4:A:49:LYS:HE2	2.22	0.44
4:A:107:CYS:HB2	4:A:108:MET:HG2	1.98	0.44
4:A:304:MET:HE2	4:A:304:MET:HB2	1.63	0.44
4:A:327:ALA:O	4:A:328:ARG:C	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:361:LEU:N	4:A:471:ASN:HD22	2.15	0.44
4:A:423:ASP:O	4:A:424:ILE:CG1	2.65	0.44
4:A:423:ASP:O	4:A:424:ILE:HB	2.16	0.44
4:A:496:GLU:O	4:A:499:ALA:CB	2.65	0.44
4:A:567:LYS:CD	9:H:96:VAL:H	2.30	0.44
4:A:582:ILE:HD11	4:A:629:LEU:CD1	2.46	0.44
4:A:840:ARG:O	4:A:841:LEU:C	2.60	0.44
4:A:954:TRP:CE3	4:A:955:PRO:HD2	2.52	0.44
4:A:1394:THR:HG21	4:A:1398:MET:HB3	1.98	0.44
4:A:1402:PHE:CE2	4:A:1403:GLU:CG	3.01	0.44
5:B:227:LYS:H	5:B:395:GLN:CD	2.03	0.44
5:B:408:LEU:HD12	5:B:408:LEU:HA	1.45	0.44
5:B:702:LEU:HB3	5:B:738:PHE:HA	2.00	0.44
5:B:957:ASN:HB3	5:B:961:LEU:HD13	1.94	0.44
5:B:1221:SER:C	5:B:1221:SER:CB	2.86	0.44
7:E:75:MET:CG	7:E:76:GLY:N	2.81	0.44
7:E:90:VAL:HB	7:E:119:SER:HB2	1.98	0.44
7:E:152:LYS:CG	7:E:152:LYS:HB3	2.19	0.44
8:F:86:THR:OG1	8:F:89:GLU:N	2.42	0.44
9:H:135:LEU:HD23	9:H:136:LYS:HD2	1.98	0.44
10:I:41:PRO:O	10:I:43:VAL:HG23	2.17	0.44
2:T:13:DA:H1'	2:T:14:DG:C8	2.52	0.44
4:A:232:GLU:C	4:A:235:ILE:HD12	2.42	0.44
4:A:266:LEU:CD2	4:A:303:TYR:CD1	2.99	0.44
4:A:276:LEU:CD1	4:A:292:ALA:CB	2.95	0.44
4:A:553:VAL:HG12	4:A:554:PRO:HD2	2.00	0.44
4:A:559:VAL:O	4:A:561:PRO:N	2.47	0.44
4:A:660:ASN:ND2	5:B:1082:MET:CB	2.79	0.44
4:A:901:LEU:HD12	4:A:926:GLN:HG2	1.99	0.44
4:A:1154:TYR:HE1	10:I:18:GLU:CG	2.30	0.44
4:A:1277:GLU:HG3	4:A:1278:ASN:ND2	2.32	0.44
4:A:1410:PHE:CE2	5:B:1212:ILE:HD11	2.52	0.44
5:B:492:LEU:HB2	5:B:751:VAL:HG21	1.97	0.44
5:B:882:THR:HG1	5:B:935:ARG:N	2.13	0.44
5:B:1033:LYS:O	5:B:1035:ALA:N	2.49	0.44
6:C:84:ARG:CG	6:C:84:ARG:CA	2.83	0.44
7:E:25:ASP:C	7:E:27:GLY:N	2.67	0.44
7:E:170:LEU:HD23	7:E:170:LEU:HA	1.62	0.44
9:H:127:GLY:N	9:H:130:ARG:HH11	2.14	0.44
12:K:7:PHE:CB	12:K:10:PHE:HZ	2.31	0.44
12:K:58:PHE:O	12:K:59:ALA:HB2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:K:82:ASP:HA	12:K:83:PRO:HD2	1.30	0.44
4:A:23:SER:HB3	4:A:233:TRP:CE2	2.52	0.44
4:A:60:SER:HB2	4:A:61:ILE:H	1.46	0.44
4:A:83:HIS:C	4:A:84:ILE:HG22	2.42	0.44
4:A:233:TRP:O	4:A:235:ILE:N	2.51	0.44
4:A:476:SER:C	4:A:478:TYR:N	2.73	0.44
4:A:535:THR:O	4:A:536:LEU:C	2.61	0.44
4:A:568:PRO:CB	6:C:221:TYR:HE1	2.30	0.44
4:A:710:LEU:H	4:A:710:LEU:HD12	1.82	0.44
4:A:717:ASN:O	4:A:718:VAL:C	2.59	0.44
4:A:990:VAL:CG2	4:A:1026:LEU:CB	2.95	0.44
4:A:1039:LYS:HD2	4:A:1039:LYS:O	2.17	0.44
4:A:1154:TYR:HE2	4:A:1156:PRO:HB3	1.67	0.44
4:A:1284:MET:CA	4:A:1306:LEU:HD23	2.48	0.44
5:B:49:ASP:O	5:B:50:SER:C	2.59	0.44
5:B:114:PRO:HG3	5:B:181:LEU:HD12	1.99	0.44
5:B:210:LYS:HG3	5:B:461:LEU:O	2.18	0.44
5:B:322:PHE:HZ	10:I:30:ARG:HH11	1.64	0.44
5:B:469:GLN:CG	5:B:470:LYS:H	2.30	0.44
5:B:816:GLU:C	5:B:818:PRO:HD2	2.43	0.44
5:B:1010:LEU:HD12	5:B:1011:ILE:N	2.32	0.44
7:E:58:MET:C	7:E:60:PHE:H	2.24	0.44
7:E:210:SER:C	7:E:211:TYR:HD1	2.26	0.44
8:F:135:ARG:NH1	8:F:143:PHE:CZ	2.85	0.44
10:I:5:ARG:CD	10:I:36:GLU:OE2	2.64	0.44
10:I:98:VAL:CG1	10:I:99:LEU:N	2.80	0.44
10:I:111:THR:HG23	10:I:112:SER:N	2.32	0.44
4:A:206:GLU:HB2	4:A:207:ILE:HG13	2.00	0.44
4:A:598:LEU:O	4:A:600:PRO:CD	2.66	0.44
4:A:720:ARG:HE	4:A:720:ARG:HB3	1.83	0.44
4:A:883:LEU:HA	4:A:883:LEU:HD23	1.41	0.44
4:A:1057:VAL:CG1	4:A:1057:VAL:C	2.91	0.44
4:A:1074:GLU:O	4:A:1076:ALA:N	2.50	0.44
5:B:34:ILE:O	5:B:35:SER:C	2.60	0.44
5:B:112:LEU:CD1	5:B:112:LEU:C	2.87	0.44
5:B:408:LEU:C	5:B:412:LEU:HD12	2.42	0.44
5:B:488:TYR:C	5:B:490:SER:H	2.26	0.44
5:B:521:LEU:O	5:B:540:SER:OG	2.36	0.44
5:B:582:VAL:HG22	5:B:626:ILE:HB	2.00	0.44
5:B:694:ASP:O	5:B:697:GLU:N	2.49	0.44
5:B:743:ILE:O	5:B:744:HIS:CB	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:814:PHE:O	5:B:818:PRO:CD	2.66	0.44
6:C:77:ILE:HA	6:C:129:ILE:CD1	2.46	0.44
6:C:92:CYS:O	6:C:96:SER:CB	2.66	0.44
8:F:97:ARG:HB3	8:F:121:ALA:HB2	2.00	0.44
10:I:60:GLN:NE2	10:I:107:SER:CB	2.77	0.44
10:I:115:LYS:CD	10:I:115:LYS:HE2	2.19	0.44
12:K:89:ASN:O	12:K:90:ALA:C	2.59	0.44
13:L:60:ARG:HD2	13:L:61:THR:H	1.82	0.44
3:N:12:DT:C4'	7:E:119:SER:OG	2.66	0.44
4:A:117:GLU:O	4:A:123:ARG:HG3	2.18	0.44
4:A:223:GLY:C	4:A:224:PHE:CD1	2.96	0.44
4:A:351:THR:HG23	5:B:1103:ILE:CG1	2.47	0.44
4:A:352:VAL:HG12	4:A:353:ILE:CA	2.43	0.44
4:A:396:PRO:CA	4:A:397:ASN:OD1	2.66	0.44
4:A:508:PRO:CD	4:A:509:LEU:H	2.29	0.44
4:A:841:LEU:HD23	4:A:841:LEU:HA	1.27	0.44
4:A:943:LEU:O	4:A:945:GLU:N	2.50	0.44
4:A:981:LEU:HD11	4:A:1038:THR:CA	2.48	0.44
4:A:1074:GLU:C	4:A:1076:ALA:N	2.75	0.44
4:A:1146:VAL:HG12	4:A:1201:ALA:HB3	1.99	0.44
5:B:94:LYS:CD	5:B:94:LYS:HG2	2.19	0.44
5:B:125:SER:HB2	5:B:170:LEU:C	2.43	0.44
5:B:198:ASP:OD1	5:B:485:ARG:NH2	2.44	0.44
5:B:288:ALA:HB2	5:B:330:ALA:HB1	2.00	0.44
5:B:686:ASN:C	5:B:688:GLY:N	2.73	0.44
5:B:703:ILE:HG22	5:B:704:ALA:N	2.33	0.44
5:B:763:GLN:HG2	5:B:764:SER:N	2.32	0.44
5:B:1159:ARG:HH21	5:B:1193:GLN:NE2	2.15	0.44
5:B:1207:LEU:HD23	5:B:1207:LEU:HA	1.62	0.44
6:C:239:PRO:O	6:C:242:GLN:N	2.51	0.44
8:F:72:LYS:HB2	8:F:73:ALA:H	1.07	0.44
11:J:19:GLU:O	11:J:20:SER:C	2.61	0.44
11:J:22:LEU:HD13	11:J:22:LEU:H	1.82	0.44
13:L:28:LYS:O	13:L:29:TYR:CD1	2.71	0.44
1:R:10:A:OP2	1:R:10:A:H8	2.01	0.44
4:A:87:ALA:C	4:A:89:PRO:HD2	2.42	0.44
4:A:179:LEU:HD11	4:A:298:PHE:HA	1.99	0.44
4:A:452:LYS:CB	5:B:1141:HIS:CE1	2.88	0.44
4:A:493:GLN:H	5:B:1149:GLU:CD	2.26	0.44
4:A:532:ARG:HH12	4:A:745:GLN:HE21	1.66	0.44
4:A:548:ASN:O	4:A:552:TRP:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:573:SER:O	4:A:576:GLN:CB	2.62	0.44
4:A:660:ASN:ND2	4:A:660:ASN:C	2.72	0.44
4:A:689:LYS:HD3	4:A:721:PHE:CG	2.53	0.44
4:A:718:VAL:O	4:A:719:VAL:C	2.60	0.44
4:A:901:LEU:O	4:A:903:ASN:CA	2.66	0.44
4:A:901:LEU:CA	4:A:907:THR:HG23	2.47	0.44
4:A:1200:ALA:O	4:A:1201:ALA:C	2.60	0.44
5:B:48:LEU:HA	5:B:48:LEU:HD23	1.31	0.44
5:B:125:SER:CB	5:B:171:PRO:HA	2.48	0.44
5:B:546:SER:OG	5:B:631:GLY:N	2.51	0.44
5:B:708:GLU:O	5:B:711:GLU:N	2.51	0.44
5:B:848:ARG:NH2	5:B:996:ARG:NH1	2.66	0.44
5:B:957:ASN:ND2	5:B:958:GLN:CA	2.80	0.44
5:B:986:GLN:OE1	5:B:986:GLN:CA	2.55	0.44
5:B:1219:ASP:O	5:B:1221:SER:N	2.51	0.44
6:C:107:SER:HB2	6:C:108:GLU:H	1.41	0.44
6:C:249:ASP:O	6:C:250:THR:C	2.59	0.44
7:E:12:LEU:O	7:E:12:LEU:HG	2.14	0.44
8:F:97:ARG:NH2	8:F:108:PHE:CE1	2.85	0.44
10:I:35:VAL:O	10:I:36:GLU:CB	2.58	0.44
11:J:9:SER:HG	11:J:45:CYS:HB2	1.82	0.44
12:K:10:PHE:CD1	12:K:11:LEU:CD1	2.95	0.44
4:A:223:GLY:O	4:A:224:PHE:CG	2.71	0.44
4:A:265:LYS:CE	4:A:323:LYS:CD	2.96	0.44
4:A:277:GLU:C	4:A:277:GLU:N	2.67	0.44
4:A:392:VAL:H	4:A:392:VAL:HG23	1.37	0.44
4:A:582:ILE:CD1	4:A:629:LEU:HD11	2.47	0.44
4:A:742:ASN:ND2	4:A:742:ASN:H	2.16	0.44
4:A:1134:ILE:O	4:A:1137:ALA:HB3	2.18	0.44
4:A:1402:PHE:CZ	4:A:1403:GLU:CD	2.96	0.44
4:A:1412:ALA:HA	4:A:1417:GLU:CD	2.42	0.44
5:B:34:ILE:CD1	5:B:743:ILE:CG2	2.95	0.44
5:B:68:THR:CB	5:B:68:THR:N	2.75	0.44
5:B:112:LEU:CG	5:B:113:TYR:N	2.80	0.44
5:B:624:LEU:HD12	5:B:625:LYS:N	2.33	0.44
5:B:976:ILE:HD11	5:B:992:ILE:CD1	2.46	0.44
5:B:1024:ALA:HA	5:B:1027:ILE:HD12	1.98	0.44
5:B:1057:LYS:O	5:B:1058:LEU:C	2.56	0.44
5:B:1134:GLU:O	5:B:1135:ARG:C	2.57	0.44
5:B:1213:THR:HA	5:B:1214:PRO:HD3	1.67	0.44
6:C:155:LEU:C	6:C:156:THR:OG1	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:59:SER:HB3	7:E:81:GLU:HA	1.98	0.44
7:E:64:PRO:HD3	7:E:76:GLY:HA2	2.00	0.44
8:F:101:ILE:HG13	8:F:101:ILE:H	1.38	0.44
8:F:140:ASP:OD1	8:F:142:SER:OG	2.26	0.44
9:H:59:ILE:C	9:H:60:ALA:CB	2.89	0.44
10:I:46:HIS:O	10:I:47:GLU:CB	2.66	0.44
11:J:57:ILE:O	11:J:61:LEU:HD12	2.17	0.44
12:K:10:PHE:CD1	12:K:10:PHE:C	2.95	0.44
4:A:209:ASN:O	4:A:212:LYS:HB2	2.17	0.43
4:A:353:ILE:HD12	4:A:482:PHE:CE2	2.53	0.43
4:A:731:ARG:O	4:A:732:LEU:C	2.52	0.43
4:A:783:THR:HG22	4:A:784:LEU:CG	2.48	0.43
4:A:860:LEU:CB	4:A:862:ASN:OD1	2.65	0.43
4:A:1101:LEU:HG	4:A:1105:LEU:HD12	2.00	0.43
4:A:1148:ILE:HG22	4:A:1149:ALA:CB	2.47	0.43
4:A:1191:TRP:CE2	4:A:1257:ASP:OD1	2.71	0.43
4:A:1209:MET:HA	4:A:1212:VAL:HG21	2.00	0.43
4:A:1209:MET:HE1	4:A:1238:ILE:HG12	2.00	0.43
4:A:1397:LEU:HA	4:A:1397:LEU:HD23	1.46	0.43
5:B:418:LYS:O	5:B:419:THR:C	2.57	0.43
5:B:475:SER:OG	5:B:476:ARG:N	2.51	0.43
5:B:564:GLU:HA	5:B:565:PRO:HD3	1.82	0.43
5:B:570:VAL:CG2	5:B:570:VAL:CG1	2.81	0.43
5:B:801:LYS:HG2	5:B:801:LYS:O	2.16	0.43
5:B:857:ARG:CD	5:B:945:GLU:OE1	2.66	0.43
5:B:872:GLU:CD	5:B:914:LYS:HE3	2.43	0.43
5:B:882:THR:HG1	5:B:934:LYS:C	2.26	0.43
5:B:1036:ALA:CB	5:B:1036:ALA:C	2.81	0.43
5:B:1160:VAL:CG1	5:B:1161:HIS:N	2.80	0.43
8:F:101:ILE:HD13	8:F:121:ALA:H	1.83	0.43
9:H:40:LEU:HD13	9:H:123:MET:CE	2.46	0.43
9:H:48:PRO:O	9:H:49:VAL:HG23	2.17	0.43
10:I:96:SER:OG	10:I:98:VAL:CG2	2.66	0.43
1:R:2:U:H3'	1:R:3:C:C6	2.54	0.43
4:A:18:GLN:CG	4:A:228:PHE:CE1	3.01	0.43
4:A:33:ALA:CB	4:A:82:GLY:HA2	2.49	0.43
4:A:106:VAL:HG12	4:A:107:CYS:CA	2.47	0.43
4:A:115:LEU:HB2	4:A:122:MET:CE	2.44	0.43
4:A:131:SER:O	4:A:134:ARG:CB	2.66	0.43
4:A:248:PRO:HB2	4:A:249:SER:H	1.46	0.43
4:A:432:VAL:O	4:A:434:ARG:N	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:463:ILE:CB	4:A:464:PRO:CD	2.95	0.43
4:A:535:THR:HG21	4:A:617:VAL:N	2.29	0.43
4:A:741:ASN:O	4:A:742:ASN:C	2.52	0.43
4:A:1052:GLN:O	4:A:1055:ARG:HB2	2.18	0.43
4:A:1100:ARG:NH1	4:A:1104:ILE:HD11	2.33	0.43
4:A:1116:LEU:HD22	4:A:1310:GLY:O	2.17	0.43
4:A:1154:TYR:HE1	10:I:18:GLU:HG3	1.82	0.43
4:A:1157:ASP:O	4:A:1157:ASP:CG	2.61	0.43
4:A:1166:ASP:O	4:A:1170:ILE:HG12	2.18	0.43
4:A:1355:VAL:CB	4:A:1355:VAL:N	2.68	0.43
4:A:1364:ASN:ND2	4:A:1366:ARG:NH1	2.63	0.43
5:B:170:LEU:O	5:B:171:PRO:C	2.61	0.43
5:B:322:PHE:CZ	10:I:30:ARG:CD	3.01	0.43
5:B:413:LEU:O	5:B:414:ALA:C	2.58	0.43
5:B:724:ASP:C	5:B:726:ALA:H	2.25	0.43
5:B:954:VAL:HA	5:B:963:PHE:O	2.18	0.43
5:B:961:LEU:HD23	5:B:961:LEU:HA	1.71	0.43
5:B:976:ILE:HG22	5:B:977:GLY:CA	2.48	0.43
5:B:1124:ARG:O	5:B:1125:ASP:CB	2.56	0.43
7:E:53:PRO:HB3	7:E:55:ARG:NH1	2.33	0.43
7:E:78:LEU:CA	7:E:107:THR:HG22	2.47	0.43
7:E:94:LYS:HE2	7:E:98:ILE:CD1	2.48	0.43
7:E:131:THR:CG2	7:E:132:ILE:HB	2.35	0.43
8:F:111:LEU:N	8:F:111:LEU:HD12	2.31	0.43
10:I:14:LEU:HA	10:I:15:TYR:CD1	2.38	0.43
10:I:52:ILE:C	10:I:52:ILE:HG13	2.43	0.43
2:T:22:DT:H2'	2:T:23:DC:C6	2.53	0.43
4:A:22:PHE:HB3	5:B:1211:ASN:CG	2.43	0.43
4:A:278:THR:CB	4:A:278:THR:C	2.87	0.43
4:A:351:THR:HG22	5:B:1103:ILE:CD1	2.28	0.43
4:A:572:TRP:N	4:A:572:TRP:CE3	2.86	0.43
4:A:598:LEU:HB3	9:H:25:ARG:HH12	1.83	0.43
4:A:755:PHE:O	4:A:758:ILE:HB	2.18	0.43
4:A:913:LEU:HD12	4:A:914:GLU:CB	2.48	0.43
4:A:990:VAL:HG22	4:A:1026:LEU:HB2	2.00	0.43
4:A:1426:GLU:H	4:A:1426:GLU:HG3	1.61	0.43
5:B:165:VAL:HG12	5:B:166:PHE:N	2.32	0.43
5:B:258:LEU:HD13	5:B:269:ILE:HG12	2.00	0.43
5:B:916:THR:O	5:B:935:ARG:HB2	2.19	0.43
5:B:973:ILE:HG22	5:B:974:PRO:N	2.30	0.43
5:B:1096:ARG:HG2	5:B:1096:ARG:NH1	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:1099:VAL:C	5:B:1103:ILE:HD11	2.40	0.43
6:C:259:LEU:O	6:C:262:LEU:N	2.51	0.43
7:E:131:THR:HB	7:E:132:ILE:H	1.49	0.43
10:I:96:SER:OG	10:I:98:VAL:HG21	2.18	0.43
4:A:30:ILE:HG13	5:B:1170:THR:HG23	2.01	0.43
4:A:65:LEU:CA	4:A:65:LEU:HB2	2.21	0.43
4:A:269:ILE:HG13	4:A:299:HIS:HB3	1.99	0.43
4:A:382:PRO:HD3	4:A:428:TYR:CD2	2.52	0.43
4:A:493:GLN:NE2	4:A:493:GLN:HA	2.33	0.43
4:A:496:GLU:O	4:A:499:ALA:HB3	2.17	0.43
4:A:553:VAL:CG1	4:A:554:PRO:HD2	2.48	0.43
4:A:607:ILE:CG1	4:A:612:ILE:HA	2.46	0.43
4:A:901:LEU:N	4:A:926:GLN:HE21	2.16	0.43
4:A:913:LEU:HD12	4:A:914:GLU:HB3	1.99	0.43
4:A:976:THR:CB	4:A:976:THR:N	2.75	0.43
4:A:1116:LEU:CD2	4:A:1311:VAL:HG22	2.32	0.43
4:A:1147:THR:CG2	10:I:48:LEU:CD1	2.96	0.43
4:A:1313:LEU:C	4:A:1315:GLU:N	2.75	0.43
5:B:288:ALA:HB1	5:B:331:LEU:HD13	1.99	0.43
5:B:423:LYS:NZ	5:B:423:LYS:CG	2.80	0.43
5:B:515:HIS:H	5:B:518:HIS:CD2	2.36	0.43
5:B:715:ALA:CB	5:B:715:ALA:C	2.82	0.43
5:B:804:GLY:C	5:B:805:THR:HG23	2.38	0.43
5:B:843:GLN:HB2	5:B:993:THR:CB	2.49	0.43
5:B:1082:MET:O	6:C:189:THR:HG22	2.18	0.43
6:C:73:GLN:H	6:C:131:HIS:H	1.65	0.43
7:E:15:ALA:O	7:E:16:PHE:C	2.61	0.43
9:H:47:PHE:N	9:H:48:PRO:CD	2.82	0.43
10:I:29:CYS:CA	10:I:29:CYS:HB3	2.20	0.43
12:K:9:LEU:O	12:K:37:LYS:HB3	2.18	0.43
4:A:26:GLU:CA	4:A:29:ALA:HB3	2.31	0.43
4:A:49:LYS:CD	4:A:49:LYS:HE3	2.22	0.43
4:A:79:GLY:HA3	4:A:245:PRO:HG2	2.00	0.43
4:A:329:LEU:HA	4:A:329:LEU:HD22	1.24	0.43
4:A:374:LEU:HD13	4:A:436:ILE:HD12	2.01	0.43
4:A:501:LEU:O	4:A:505:CYS:HB2	2.18	0.43
4:A:590:ARG:HH21	4:A:621:THR:HA	1.83	0.43
4:A:673:GLY:C	4:A:675:THR:N	2.76	0.43
4:A:676:MET:HE1	4:A:762:SER:O	2.18	0.43
4:A:1156:PRO:HG2	4:A:1157:ASP:N	2.32	0.43
4:A:1163:ILE:HA	4:A:1164:PRO:HD2	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1168:GLU:C	4:A:1170:ILE:N	2.74	0.43
4:A:1211:GLN:O	4:A:1215:ARG:HB2	2.18	0.43
5:B:22:SER:O	5:B:654:ARG:CG	2.66	0.43
5:B:122:LEU:CD1	5:B:122:LEU:HB2	2.47	0.43
5:B:236:HIS:O	5:B:237:VAL:CG2	2.66	0.43
5:B:293:PRO:HG2	5:B:296:GLU:HB3	1.99	0.43
5:B:514:LEU:HA	5:B:514:LEU:HD12	1.84	0.43
5:B:542:MET:HE2	5:B:747:MET:HE2	2.01	0.43
5:B:602:THR:O	5:B:606:LYS:N	2.51	0.43
5:B:826:ALA:O	5:B:1011:ILE:CG2	2.48	0.43
5:B:984:HIS:NE2	5:B:1025:HIS:N	2.67	0.43
5:B:1031:LEU:CD1	5:B:1055:ILE:HD12	2.45	0.43
5:B:1083:ALA:HA	5:B:1084:GLN:OE1	2.19	0.43
6:C:5:GLY:O	6:C:6:PRO:O	2.35	0.43
6:C:44:LEU:CD1	6:C:160:LYS:C	2.90	0.43
6:C:113:VAL:HB	6:C:145:CYS:H	1.83	0.43
7:E:94:LYS:HE2	7:E:98:ILE:HD11	2.00	0.43
7:E:147:HIS:O	7:E:150:VAL:N	2.30	0.43
7:E:158:SER:HB3	7:E:159:ASP:H	1.83	0.43
7:E:204:THR:HG22	7:E:205:SER:CA	2.48	0.43
8:F:94:LEU:HA	8:F:94:LEU:HD23	0.79	0.43
9:H:91:ASP:C	9:H:93:TYR:N	2.73	0.43
9:H:102:TYR:HD2	9:H:115:TYR:O	2.00	0.43
10:I:6:PHE:CD2	10:I:12:ASN:O	2.71	0.43
10:I:9:ASP:C	10:I:9:ASP:N	2.66	0.43
11:J:8:PHE:H	11:J:49:MET:CE	2.32	0.43
12:K:33:ILE:HG22	12:K:34:THR:O	2.18	0.43
12:K:45:LEU:HD12	12:K:45:LEU:HA	1.63	0.43
1:R:6:G:H2'	1:R:7:A:O5'	2.19	0.43
4:A:322:VAL:HB	4:A:323:LYS:HD3	2.00	0.43
4:A:575:LYS:HD3	4:A:612:ILE:CD1	2.38	0.43
4:A:1097:GLY:O	4:A:1099:PRO:HG2	2.18	0.43
5:B:22:SER:O	5:B:654:ARG:CD	2.66	0.43
5:B:43:LEU:HD13	5:B:812:LEU:CD2	2.49	0.43
5:B:62:ILE:CD1	5:B:418:LYS:HE2	2.48	0.43
5:B:291:ILE:HG22	5:B:297:ILE:CD1	2.49	0.43
5:B:842:ASN:N	5:B:1009:ASP:O	2.46	0.43
5:B:871:THR:O	5:B:873:THR:OG1	2.37	0.43
5:B:991:GLY:O	5:B:992:ILE:CB	2.64	0.43
5:B:1152:MET:C	5:B:1154:ALA:O	2.62	0.43
5:B:1197:PRO:O	5:B:1198:TYR:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:118:PRO:O	7:E:122:LYS:HE3	2.18	0.43
7:E:128:PRO:O	7:E:128:PRO:CD	2.66	0.43
9:H:42:ILE:HG22	9:H:44:VAL:CG2	2.48	0.43
10:I:19:ASP:HB2	10:I:24:ARG:CG	2.42	0.43
12:K:7:PHE:C	12:K:9:LEU:N	2.76	0.43
12:K:32:VAL:CG2	12:K:74:ARG:HA	2.47	0.43
4:A:250:ILE:O	4:A:251:SER:CB	2.66	0.43
4:A:266:LEU:HD21	4:A:303:TYR:CE1	2.53	0.43
4:A:668:ASP:N	6:C:192:TRP:CZ2	2.82	0.43
4:A:771:GLU:OE2	5:B:510:LYS:HD3	2.19	0.43
4:A:886:ILE:CG1	4:A:943:LEU:HB2	2.48	0.43
5:B:26:THR:O	5:B:28:GLU:N	2.51	0.43
5:B:65:GLU:HG2	5:B:66:ASP:H	1.33	0.43
5:B:100:PRO:HA	5:B:126:SER:HB2	2.01	0.43
5:B:215:GLN:O	5:B:407:ASP:N	2.40	0.43
5:B:626:ILE:HD12	5:B:626:ILE:N	2.34	0.43
5:B:685:LEU:HD12	5:B:685:LEU:HA	1.12	0.43
5:B:1107:ALA:O	5:B:1108:ARG:HB3	2.18	0.43
6:C:11:ARG:HG3	6:C:19:ASP:O	2.19	0.43
7:E:37:LEU:C	7:E:38:PRO:O	2.56	0.43
7:E:64:PRO:CG	7:E:76:GLY:CA	2.93	0.43
7:E:87:SER:C	7:E:88:VAL:HG22	2.40	0.43
8:F:74:ILE:CG2	8:F:75:PRO:HG2	2.48	0.43
9:H:89:LEU:CD2	9:H:89:LEU:HG	2.23	0.43
11:J:52:THR:O	11:J:53:HIS:C	2.62	0.43
4:A:43:GLU:O	4:A:46:THR:CB	2.59	0.43
4:A:151:ASP:CG	4:A:162:VAL:O	2.61	0.43
4:A:266:LEU:HD22	4:A:266:LEU:HA	1.85	0.43
4:A:327:ALA:HA	4:A:330:LYS:HB2	2.01	0.43
4:A:353:ILE:HD13	4:A:487:MET:CE	2.33	0.43
4:A:494:SER:N	5:B:1149:GLU:OE2	2.52	0.43
4:A:503:GLN:O	4:A:509:LEU:CD1	2.67	0.43
4:A:547:LEU:HD22	12:K:58:PHE:CE1	2.49	0.43
4:A:553:VAL:O	4:A:556:TRP:HB2	2.18	0.43
4:A:824:LEU:HA	4:A:824:LEU:HD23	1.14	0.43
4:A:849:MET:O	4:A:850:VAL:C	2.60	0.43
4:A:884:ASP:OD2	4:A:1025:ARG:HD2	2.18	0.43
4:A:1096:SER:O	4:A:1099:PRO:CG	2.67	0.43
4:A:1118:VAL:CG2	4:A:1306:LEU:HB2	2.48	0.43
4:A:1150:SER:HB2	4:A:1195:LEU:HD22	2.01	0.43
4:A:1155:ASP:CG	4:A:1162:VAL:CG2	2.91	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1242:VAL:HG11	4:A:1259:MET:HE3	2.01	0.43
5:B:59:LEU:CD1	5:B:417:PHE:CD2	3.02	0.43
5:B:568:ASP:CB	5:B:568:ASP:OD2	2.53	0.43
5:B:1030:LEU:HD23	5:B:1055:ILE:CG2	2.48	0.43
5:B:1084:GLN:HE22	6:C:192:TRP:N	2.16	0.43
6:C:21:ILE:CG2	6:C:22:LEU:N	2.79	0.43
6:C:60:ASP:HB3	13:L:67:PHE:CZ	2.53	0.43
6:C:119:VAL:O	6:C:119:VAL:HG13	2.13	0.43
11:J:2:ILE:HA	11:J:53:HIS:HE1	1.82	0.43
12:K:39:ASP:OD1	12:K:39:ASP:C	2.62	0.43
12:K:78:THR:CG2	12:K:79:GLU:O	2.67	0.43
4:A:33:ALA:HB3	4:A:82:GLY:HA2	2.00	0.43
4:A:151:ASP:OD1	4:A:163:SER:HB3	2.19	0.43
4:A:232:GLU:HA	4:A:235:ILE:CD1	2.49	0.43
4:A:295:LEU:O	4:A:298:PHE:N	2.51	0.43
4:A:465:TYR:CD1	4:A:465:TYR:N	2.86	0.43
4:A:607:ILE:O	4:A:607:ILE:HG22	2.19	0.43
4:A:609:ASP:O	4:A:611:GLN:CB	2.64	0.43
4:A:619:LYS:C	4:A:621:THR:N	2.70	0.43
4:A:640:GLN:O	4:A:641:VAL:C	2.58	0.43
4:A:666:ILE:HG13	5:B:1026:LEU:HB3	2.01	0.43
4:A:782:ARG:HH11	4:A:782:ARG:HD2	1.47	0.43
4:A:853:ASP:HB3	8:F:138:LEU:CD2	2.48	0.43
4:A:1007:ILE:O	4:A:1010:ALA:HB2	2.14	0.43
4:A:1144:LYS:C	4:A:1146:VAL:N	2.76	0.43
4:A:1166:ASP:OD1	4:A:1194:ARG:NH2	2.51	0.43
5:B:410:GLY:HA3	5:B:411:PRO:HD3	1.40	0.43
5:B:765:PRO:O	5:B:766:ARG:C	2.56	0.43
5:B:914:LYS:H	5:B:938:SER:HB3	1.83	0.43
5:B:981:ALA:HA	5:B:1092:TYR:CD2	2.54	0.43
5:B:1115:THR:C	5:B:1116:ARG:CG	2.85	0.43
5:B:1137:CYS:O	5:B:1140:ALA:HB3	2.19	0.43
5:B:1162:ILE:HD13	5:B:1168:LEU:CA	2.48	0.43
6:C:66:ARG:O	6:C:67:LEU:C	2.58	0.43
6:C:112:ASN:HB3	6:C:114:TYR:CE1	2.53	0.43
6:C:181:ASP:OD2	6:C:186:LEU:HD12	2.18	0.43
6:C:249:ASP:OD1	6:C:253:LYS:HE3	2.19	0.43
7:E:178:ILE:O	7:E:215:MET:CB	2.67	0.43
8:F:109:VAL:HG22	8:F:124:GLU:CG	2.49	0.43
9:H:89:LEU:CD1	9:H:89:LEU:CB	2.88	0.43
10:I:42:LEU:CD2	10:I:42:LEU:HG	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:I:46:HIS:O	10:I:47:GLU:HB2	2.18	0.43
2:T:28:DT:H2'	4:A:317:LYS:CG	2.19	0.43
4:A:14:VAL:CG2	4:A:1432:GLN:HE22	2.28	0.43
4:A:147:VAL:HA	4:A:170:THR:HG23	2.00	0.43
4:A:374:LEU:HD13	4:A:436:ILE:CD1	2.49	0.43
4:A:407:ARG:HB3	4:A:430:TRP:CZ2	2.54	0.43
4:A:414:ASP:O	4:A:415:LEU:C	2.59	0.43
4:A:738:LYS:NZ	6:C:194:GLU:CA	2.80	0.43
4:A:904:THR:C	4:A:905:ASP:C	2.87	0.43
4:A:958:VAL:CG1	4:A:959:ASN:N	2.69	0.43
4:A:1111:MET:HE3	4:A:1111:MET:CB	2.41	0.43
4:A:1225:PHE:CA	4:A:1226:VAL:HG23	2.49	0.43
5:B:66:ASP:O	5:B:66:ASP:CG	2.62	0.43
5:B:191:LYS:C	5:B:193:LYS:H	2.27	0.43
5:B:284:ILE:HB	5:B:285:ILE:H	1.59	0.43
5:B:369:GLY:C	5:B:370:PHE:CD1	2.97	0.43
5:B:554:ILE:HD11	5:B:609:ILE:CD1	2.49	0.43
5:B:558:LEU:HB3	5:B:563:MET:HG2	2.01	0.43
5:B:903:VAL:HG23	5:B:903:VAL:H	0.90	0.43
5:B:1010:LEU:HD12	5:B:1010:LEU:HA	1.69	0.43
7:E:29:PHE:O	7:E:30:ILE:HG12	2.16	0.43
7:E:30:ILE:O	7:E:31:THR:C	2.62	0.43
7:E:31:THR:C	7:E:31:THR:OG1	2.61	0.43
7:E:78:LEU:CG	7:E:107:THR:CG2	2.96	0.43
9:H:89:LEU:HB2	9:H:91:ASP:CG	2.44	0.43
9:H:109:LYS:HB3	9:H:111:LEU:N	2.34	0.43
10:I:34:TYR:CG	10:I:35:VAL:N	2.87	0.43
11:J:52:THR:O	11:J:54:VAL:CG2	2.63	0.43
12:K:5:ASP:O	12:K:6:ARG:O	2.37	0.43
13:L:34:CYS:O	13:L:35:SER:CB	2.65	0.43
4:A:23:SER:O	4:A:27:VAL:HG23	2.19	0.42
4:A:67:CYS:C	4:A:68:GLN:CG	2.92	0.42
4:A:288:ALA:HA	4:A:291:GLU:HG2	2.00	0.42
4:A:690:VAL:HG11	4:A:718:VAL:HG13	1.99	0.42
4:A:691:LEU:HB3	4:A:692:ASP:H	1.37	0.42
4:A:822:GLU:O	4:A:825:ILE:HB	2.19	0.42
4:A:893:PHE:HD2	4:A:894:GLU:N	2.16	0.42
4:A:898:ARG:CG	4:A:898:ARG:C	2.91	0.42
4:A:901:LEU:CD2	4:A:907:THR:HG22	2.42	0.42
4:A:910:PRO:HB3	4:A:916:GLY:C	2.44	0.42
4:A:1035:TYR:O	4:A:1035:TYR:HD1	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1060:PRO:O	8:F:86:THR:HG21	2.19	0.42
5:B:128:LEU:HB3	5:B:168:GLY:O	2.15	0.42
5:B:432:MET:HE2	5:B:432:MET:HB2	2.01	0.42
5:B:724:ASP:HA	5:B:725:PRO:HD2	1.89	0.42
5:B:784:ASN:CG	5:B:788:ARG:CD	2.92	0.42
5:B:1025:HIS:HB3	5:B:1026:LEU:H	1.69	0.42
5:B:1087:PHE:HD2	11:J:44:TYR:OH	2.02	0.42
5:B:1165:ILE:HG22	5:B:1166:CYS:CA	2.50	0.42
6:C:34:ARG:CA	6:C:37:MET:HE3	2.39	0.42
6:C:54:ASN:O	6:C:54:ASN:CG	2.59	0.42
6:C:138:GLU:H	6:C:138:GLU:HG3	1.25	0.42
7:E:153:HIS:C	7:E:154:ILE:CG1	2.71	0.42
7:E:164:LEU:O	7:E:165:LEU:C	2.57	0.42
10:I:95:THR:CG2	10:I:96:SER:H	2.26	0.42
11:J:42:LYS:HG2	11:J:43:ARG:H	1.84	0.42
4:A:88:LYS:CA	4:A:89:PRO:HD2	2.49	0.42
4:A:326:ARG:O	4:A:329:LEU:HB2	2.18	0.42
4:A:388:LEU:HD23	4:A:388:LEU:O	2.19	0.42
4:A:526:ASP:CG	5:B:829:CYS:HG	2.12	0.42
4:A:619:LYS:O	4:A:623:GLY:N	2.49	0.42
4:A:742:ASN:HA	4:A:745:GLN:HG3	2.02	0.42
4:A:765:VAL:HG12	4:A:804:TYR:CE1	2.54	0.42
4:A:787:PHE:CZ	4:A:796:SER:HA	2.54	0.42
4:A:953:ASN:N	4:A:954:TRP:CD1	2.87	0.42
4:A:964:ILE:O	4:A:968:GLN:N	2.49	0.42
4:A:1074:GLU:CB	4:A:1075:PRO:HD3	2.39	0.42
5:B:46:GLN:HE21	5:B:496:ARG:HG2	1.84	0.42
5:B:305:VAL:CG1	5:B:305:VAL:CA	2.92	0.42
5:B:345:LYS:N	5:B:347:LYS:HD2	2.34	0.42
5:B:386:LEU:O	5:B:387:LEU:C	2.54	0.42
5:B:528:PRO:O	5:B:528:PRO:CG	2.60	0.42
5:B:563:MET:O	5:B:563:MET:HG3	2.18	0.42
5:B:941:LEU:O	5:B:942:ARG:C	2.62	0.42
5:B:1128:LEU:HD23	5:B:1128:LEU:HA	1.96	0.42
6:C:256:ALA:O	6:C:259:LEU:HB3	2.18	0.42
6:C:260:LEU:HD11	6:C:264:GLN:HE21	1.83	0.42
7:E:52:ARG:HB3	7:E:53:PRO:CD	2.48	0.42
7:E:78:LEU:HD23	7:E:78:LEU:O	2.19	0.42
9:H:87:ARG:O	9:H:89:LEU:HD12	2.18	0.42
10:I:34:TYR:CD2	10:I:34:TYR:C	2.96	0.42
11:J:43:ARG:HD2	11:J:45:CYS:SG	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:K:5:ASP:CB	12:K:7:PHE:CE2	3.02	0.42
12:K:46:ILE:HG22	12:K:47:ARG:N	2.28	0.42
2:T:20:DC:C2'	2:T:21:DC:O5'	2.67	0.42
4:A:214:ILE:CG2	4:A:215:SER:N	2.81	0.42
4:A:379:VAL:HG12	4:A:380:VAL:N	2.33	0.42
4:A:434:ARG:HB2	4:A:435:HIS:HB2	2.00	0.42
4:A:655:PHE:CE2	4:A:659:HIS:CD2	3.04	0.42
4:A:709:THR:HB	4:A:712:GLU:H	1.84	0.42
4:A:878:ILE:O	4:A:879:GLU:CG	2.68	0.42
4:A:901:LEU:CB	4:A:926:GLN:HG3	2.39	0.42
4:A:990:VAL:HG12	4:A:991:LYS:H	1.84	0.42
4:A:1344:GLY:O	4:A:1347:ALA:N	2.53	0.42
5:B:28:GLU:C	5:B:30:SER:H	2.27	0.42
5:B:249:ARG:CG	5:B:249:ARG:HA	2.48	0.42
5:B:284:ILE:O	5:B:288:ALA:N	2.50	0.42
5:B:426:LYS:CD	5:B:426:LYS:HE3	2.22	0.42
5:B:681:TRP:O	5:B:684:LEU:N	2.53	0.42
5:B:734:HIS:O	5:B:735:ALA:HB2	2.18	0.42
5:B:1050:ILE:CG2	5:B:1051:THR:N	2.81	0.42
5:B:1184:GLY:O	5:B:1186:ASP:CG	2.62	0.42
6:C:11:ARG:HH21	6:C:229:TYR:HB3	1.84	0.42
6:C:92:CYS:C	6:C:94:LYS:H	2.21	0.42
6:C:245:VAL:O	6:C:248:ILE:N	2.52	0.42
7:E:190:LEU:CD2	7:E:190:LEU:CD1	2.86	0.42
9:H:10:PHE:CD2	9:H:30:SER:N	2.88	0.42
9:H:46:LEU:HA	9:H:46:LEU:HD23	1.70	0.42
9:H:131:ASN:O	9:H:133:ASN:N	2.51	0.42
10:I:88:SER:CA	10:I:100:PHE:HE1	2.32	0.42
11:J:36:LEU:HD22	11:J:36:LEU:HA	1.84	0.42
12:K:46:ILE:O	12:K:47:ARG:C	2.58	0.42
4:A:450:LEU:HA	4:A:838:GLN:NE2	2.35	0.42
4:A:537:ARG:HH11	4:A:537:ARG:HG2	1.85	0.42
4:A:722:LEU:HD12	4:A:722:LEU:N	2.35	0.42
4:A:744:LYS:CE	4:A:748:MET:CE	2.95	0.42
4:A:755:PHE:O	4:A:756:ILE:C	2.61	0.42
4:A:784:LEU:HA	4:A:784:LEU:HD23	1.59	0.42
4:A:808:LEU:HD12	4:A:808:LEU:N	2.35	0.42
4:A:852:TYR:CD2	4:A:1060:PRO:HB3	2.54	0.42
4:A:968:GLN:HE21	4:A:968:GLN:HB3	1.21	0.42
4:A:1370:LEU:HD12	4:A:1370:LEU:HA	1.77	0.42
5:B:393:LYS:HE3	10:I:89:GLN:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:526:GLU:O	5:B:527:THR:HB	2.19	0.42
5:B:613:VAL:HG12	5:B:614:SER:N	2.35	0.42
5:B:640:VAL:CG1	5:B:650:GLU:O	2.67	0.42
5:B:781:PHE:HE2	5:B:793:ALA:HB1	1.84	0.42
5:B:942:ARG:HG3	5:B:945:GLU:HB2	2.02	0.42
5:B:1168:LEU:C	5:B:1170:THR:N	2.77	0.42
6:C:57:VAL:HB	6:C:58:LEU:CD2	2.43	0.42
6:C:69:LEU:HD12	6:C:69:LEU:HA	1.39	0.42
7:E:136:ASN:OD1	7:E:138:ALA:HB3	2.19	0.42
7:E:161:LYS:NZ	7:E:193:GLY:O	2.50	0.42
7:E:168:TYR:CA	7:E:169:ARG:HG2	2.49	0.42
9:H:6:PHE:O	9:H:58:THR:HA	2.19	0.42
12:K:78:THR:CG2	12:K:79:GLU:N	2.66	0.42
13:L:41:SER:O	13:L:42:ARG:C	2.63	0.42
4:A:148:CYS:HB3	4:A:167:CYS:O	2.19	0.42
4:A:210:ILE:HB	4:A:211:PHE:H	0.88	0.42
4:A:321:PRO:CD	4:A:322:VAL:N	2.83	0.42
4:A:337:ARG:CZ	4:A:839:ARG:NH1	2.82	0.42
4:A:443:LEU:CD2	4:A:443:LEU:C	2.92	0.42
4:A:548:ASN:HD21	12:K:47:ARG:NE	2.18	0.42
4:A:578:LEU:O	4:A:581:ALA:N	2.42	0.42
4:A:596:THR:O	4:A:597:LEU:C	2.57	0.42
4:A:1012:ARG:O	4:A:1013:ASP:C	2.53	0.42
4:A:1101:LEU:N	4:A:1355:VAL:CG2	2.79	0.42
4:A:1105:LEU:CB	4:A:1384:VAL:HG23	2.37	0.42
5:B:59:LEU:CD2	5:B:59:LEU:CB	2.85	0.42
5:B:215:GLN:OE1	5:B:479:VAL:HG13	2.20	0.42
5:B:701:ILE:CG1	5:B:740:HIS:HE1	2.32	0.42
5:B:864:LYS:HB2	5:B:871:THR:HA	2.00	0.42
5:B:1074:ASN:OD1	5:B:1075:GLY:N	2.48	0.42
5:B:1203:LEU:O	5:B:1204:PHE:C	2.62	0.42
6:C:87:PHE:N	6:C:87:PHE:CD1	2.88	0.42
6:C:142:VAL:HG12	6:C:143:LEU:N	2.34	0.42
6:C:181:ASP:N	6:C:182:PRO:HD2	2.33	0.42
7:E:12:LEU:CD2	7:E:42:PHE:CZ	3.01	0.42
10:I:17:ARG:CZ	10:I:17:ARG:HB3	2.10	0.42
4:A:8:SER:O	4:A:9:ALA:C	2.63	0.42
4:A:30:ILE:CG1	5:B:1170:THR:HG23	2.49	0.42
4:A:151:ASP:O	4:A:152:VAL:HG22	2.19	0.42
4:A:220:THR:O	4:A:221:SER:O	2.37	0.42
4:A:371:ALA:C	4:A:373:THR:N	2.71	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:418:SER:C	4:A:420:ARG:H	2.27	0.42
4:A:441:PRO:C	4:A:442:VAL:CG1	2.91	0.42
4:A:660:ASN:O	5:B:1081:LEU:HD22	2.20	0.42
4:A:946:VAL:O	4:A:948:VAL:HG23	2.20	0.42
4:A:970:THR:HB	4:A:971:PHE:CE1	2.54	0.42
4:A:1390:ASN:HD21	4:A:1399:ARG:HB3	1.71	0.42
4:A:1434:ALA:O	4:A:1439:GLY:HA3	2.19	0.42
5:B:357:GLN:CA	5:B:374:LYS:NZ	2.81	0.42
5:B:361:LEU:HD21	5:B:377:PHE:HD2	1.84	0.42
5:B:451:LYS:O	5:B:453:ILE:N	2.49	0.42
5:B:460:ALA:O	5:B:462:ALA:N	2.53	0.42
5:B:493:SER:OG	5:B:497:ARG:NH2	2.53	0.42
5:B:515:HIS:HD2	5:B:517:THR:H	1.60	0.42
5:B:825:VAL:CG1	5:B:826:ALA:N	2.82	0.42
10:I:8:ARG:CG	10:I:8:ARG:HB2	2.22	0.42
11:J:43:ARG:CG	11:J:46:CYS:HB2	2.48	0.42
12:K:3:ALA:HA	12:K:4:PRO:HD3	1.54	0.42
12:K:44:ASN:CA	12:K:61:TYR:CE2	3.01	0.42
12:K:83:PRO:O	12:K:86:ALA:CA	2.68	0.42
13:L:57:LEU:HA	13:L:57:LEU:HD23	1.71	0.42
4:A:94:GLY:C	4:A:95:PHE:HD2	2.28	0.42
4:A:101:LYS:HG2	4:A:139:TRP:CE2	2.54	0.42
4:A:433:GLU:H	4:A:433:GLU:HG2	1.40	0.42
4:A:624:SER:O	4:A:624:SER:OG	2.21	0.42
4:A:634:THR:O	4:A:634:THR:CG2	2.64	0.42
4:A:779:PHE:CD1	4:A:785:PRO:HD3	2.53	0.42
4:A:955:PRO:C	4:A:956:LEU:CG	2.91	0.42
4:A:1398:MET:HB2	4:A:1426:GLU:OE2	2.20	0.42
5:B:110:HIS:CD2	5:B:111:ALA:N	2.87	0.42
5:B:170:LEU:HA	5:B:171:PRO:HD2	1.47	0.42
5:B:225:VAL:C	5:B:226:PHE:CD2	2.98	0.42
5:B:478:GLY:C	5:B:479:VAL:O	2.49	0.42
5:B:1007:VAL:HG13	5:B:1008:PRO:O	2.19	0.42
5:B:1011:ILE:HG22	5:B:1012:ILE:N	2.21	0.42
5:B:1095:LEU:HA	5:B:1095:LEU:HD23	1.35	0.42
5:B:1096:ARG:CG	5:B:1097:HIS:N	2.80	0.42
5:B:1162:ILE:C	5:B:1171:VAL:HG21	2.44	0.42
16:B:1308:ATP:C8	16:B:1308:ATP:H5'2	2.54	0.42
6:C:60:ASP:O	6:C:63:ILE:HB	2.18	0.42
6:C:124:LEU:HA	6:C:124:LEU:HD23	1.54	0.42
7:E:60:PHE:CD2	7:E:60:PHE:C	2.96	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:85:GLU:C	7:E:87:SER:N	2.78	0.42
7:E:213:ILE:O	7:E:213:ILE:HG23	2.19	0.42
8:F:93:ILE:HD11	8:F:134:ILE:CD1	2.50	0.42
9:H:6:PHE:CD2	9:H:7:ASP:N	2.87	0.42
11:J:21:TYR:C	11:J:23:ASN:H	2.28	0.42
11:J:47:ARG:C	11:J:49:MET:N	2.75	0.42
4:A:106:VAL:HA	4:A:114:LEU:HD21	2.02	0.42
4:A:272:ALA:C	4:A:296:LEU:CD1	2.93	0.42
4:A:326:ARG:CG	4:A:1406:VAL:HG21	2.50	0.42
4:A:587:HIS:HE1	4:A:969:GLN:HG2	1.84	0.42
4:A:756:ILE:HD13	4:A:756:ILE:HA	1.86	0.42
4:A:845:LEU:H	4:A:845:LEU:HG	1.20	0.42
4:A:1154:TYR:CD2	4:A:1154:TYR:C	2.97	0.42
4:A:1197:LEU:HD23	4:A:1197:LEU:HA	1.71	0.42
5:B:486:TYR:OH	5:B:1096:ARG:HB2	2.20	0.42
5:B:642:ASP:HA	5:B:649:LYS:HA	2.01	0.42
5:B:695:ALA:CB	5:B:695:ALA:N	2.72	0.42
5:B:825:VAL:CG1	5:B:825:VAL:HB	2.18	0.42
5:B:882:THR:CG2	5:B:882:THR:OG1	2.57	0.42
5:B:1099:VAL:O	5:B:1103:ILE:HD13	2.10	0.42
7:E:15:ALA:HB3	7:E:16:PHE:H	1.33	0.42
9:H:81:PRO:CB	9:H:82:PRO:N	2.83	0.42
9:H:142:LEU:CD1	9:H:143:LEU:N	2.60	0.42
12:K:1:MET:HG2	12:K:2:ASN:ND2	2.34	0.42
4:A:58:LEU:HA	4:A:58:LEU:HD23	1.68	0.42
4:A:81:PHE:CE2	4:A:240:PRO:HB2	2.55	0.42
4:A:311:GLN:CA	4:A:311:GLN:HB3	2.24	0.42
4:A:380:VAL:HG21	4:A:429:GLY:N	2.35	0.42
4:A:396:PRO:CG	4:A:397:ASN:OD1	2.64	0.42
4:A:928:LEU:HA	4:A:928:LEU:HD23	1.31	0.42
4:A:929:LEU:CD2	4:A:929:LEU:H	2.10	0.42
4:A:1048:ASN:O	4:A:1051:ALA:CB	2.58	0.42
4:A:1064:VAL:O	4:A:1065:GLY:C	2.62	0.42
4:A:1146:VAL:HG13	4:A:1201:ALA:CB	2.49	0.42
4:A:1355:VAL:C	4:A:1355:VAL:CG1	2.93	0.42
4:A:1373:ASP:HA	4:A:1376:THR:HG22	2.02	0.42
4:A:1438:THR:C	4:A:1438:THR:HG22	2.44	0.42
4:A:1444:MET:C	4:A:1444:MET:CB	2.80	0.42
5:B:189:LEU:C	5:B:191:LYS:H	2.20	0.42
5:B:213:ILE:O	5:B:214:ALA:C	2.63	0.42
5:B:216:GLU:OE1	5:B:537:LYS:NZ	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:244:LEU:HD11	5:B:366:GLN:OE1	2.20	0.42
5:B:291:ILE:HD13	5:B:375:ALA:HB2	2.02	0.42
5:B:477:ALA:CB	5:B:478:GLY:O	2.64	0.42
5:B:488:TYR:O	5:B:491:THR:N	2.52	0.42
5:B:554:ILE:O	5:B:556:THR:N	2.53	0.42
5:B:610:ASN:HB3	5:B:613:VAL:CG2	2.50	0.42
5:B:632:ARG:HE	5:B:632:ARG:HB2	1.76	0.42
5:B:1137:CYS:O	5:B:1138:MET:C	2.56	0.42
5:B:1204:PHE:CE1	5:B:1216:LEU:HD11	2.55	0.42
6:C:39:ALA:HA	6:C:164:ALA:HB3	2.01	0.42
6:C:67:LEU:HD23	6:C:144:ILE:CD1	2.48	0.42
6:C:163:ILE:O	6:C:165:LYS:N	2.52	0.42
7:E:210:SER:C	7:E:211:TYR:CD1	2.98	0.42
8:F:76:LYS:CB	8:F:76:LYS:C	2.82	0.42
8:F:83:PRO:CG	8:F:84:TYR:H	2.33	0.42
9:H:84:ALA:HA	9:H:87:ARG:N	2.35	0.42
9:H:145:ARG:C	9:H:146:ARG:CG	2.92	0.42
11:J:8:PHE:CD1	11:J:49:MET:SD	3.12	0.42
4:A:41:MET:HE2	4:A:61:ILE:HD11	2.02	0.42
4:A:124:GLN:O	4:A:126:LEU:N	2.53	0.42
4:A:241:VAL:HG13	4:A:242:PRO:HD2	2.02	0.42
4:A:332:LYS:O	4:A:333:GLU:C	2.60	0.42
4:A:399:HIS:O	4:A:435:HIS:CD2	2.73	0.42
4:A:415:LEU:HD23	4:A:415:LEU:H	1.85	0.42
4:A:508:PRO:HA	4:A:511:ILE:HG13	2.02	0.42
4:A:596:THR:C	4:A:598:LEU:H	2.27	0.42
4:A:849:MET:HB3	4:A:1063:MET:HA	2.02	0.42
4:A:1075:PRO:HA	4:A:1078:GLN:CG	2.50	0.42
4:A:1101:LEU:N	4:A:1355:VAL:HG21	2.34	0.42
4:A:1151:GLU:O	4:A:1152:ILE:HD12	2.20	0.42
4:A:1287:TYR:CE2	4:A:1307:GLU:OE2	2.73	0.42
4:A:1352:VAL:O	4:A:1355:VAL:HB	2.20	0.42
5:B:185:THR:HG1	5:B:188:ASP:H	1.67	0.42
5:B:428:ILE:O	5:B:429:PHE:C	2.60	0.42
5:B:495:LEU:HD23	5:B:495:LEU:HA	1.36	0.42
5:B:547:VAL:H	5:B:612:GLU:CD	2.28	0.42
5:B:564:GLU:H	5:B:564:GLU:HG3	1.66	0.42
5:B:591:ARG:O	5:B:592:ASN:C	2.63	0.42
5:B:640:VAL:CG2	5:B:740:HIS:HA	2.48	0.42
5:B:815:ARG:C	5:B:816:GLU:CD	2.88	0.42
5:B:864:LYS:C	5:B:865:LYS:HA	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:1144:ALA:C	5:B:1146:PHE:H	2.20	0.42
6:C:19:ASP:C	6:C:19:ASP:OD1	2.60	0.42
6:C:62:PHE:O	6:C:63:ILE:O	2.38	0.42
6:C:131:HIS:O	6:C:132:PRO:O	2.36	0.42
6:C:227:THR:O	6:C:228:PHE:CD1	2.73	0.42
6:C:254:LYS:HE2	12:K:38:GLU:CD	2.45	0.42
6:C:255:VAL:C	6:C:257:SER:H	2.28	0.42
8:F:145:ASP:OD1	8:F:145:ASP:N	2.53	0.42
9:H:76:THR:HG23	9:H:77:ARG:NH2	2.35	0.42
9:H:146:ARG:CG	9:H:146:ARG:N	2.83	0.42
10:I:65:ASP:HA	10:I:66:PRO:HD3	1.31	0.42
12:K:101:LEU:CD2	12:K:101:LEU:O	2.68	0.42
4:A:375:THR:OG1	4:A:434:ARG:N	2.54	0.41
4:A:570:PRO:O	4:A:570:PRO:CD	2.68	0.41
4:A:606:LEU:HA	4:A:606:LEU:HD12	1.49	0.41
4:A:657:LEU:O	4:A:660:ASN:N	2.50	0.41
4:A:827:THR:O	4:A:831:THR:HB	2.20	0.41
4:A:889:SER:CB	4:A:891:ALA:HB3	2.36	0.41
4:A:993:LEU:O	4:A:994:GLN:C	2.62	0.41
4:A:1025:ARG:HA	4:A:1030:ARG:HH11	1.78	0.41
4:A:1146:VAL:O	4:A:1198:ASP:N	2.39	0.41
4:A:1437:GLY:C	8:F:88:TYR:HB3	2.45	0.41
4:A:1443:VAL:CG1	4:A:1444:MET:N	2.76	0.41
4:A:1445:ILE:N	4:A:1445:ILE:CD1	2.82	0.41
5:B:92:PHE:CD1	5:B:92:PHE:N	2.82	0.41
5:B:218:SER:O	5:B:219:ALA:C	2.58	0.41
5:B:237:VAL:CG1	5:B:238:ALA:N	2.79	0.41
5:B:254:LEU:CD2	5:B:361:LEU:HD11	2.21	0.41
5:B:284:ILE:O	5:B:286:PHE:N	2.53	0.41
5:B:520:GLY:C	5:B:521:LEU:HG	2.41	0.41
5:B:569:TYR:HA	5:B:570:VAL:HG22	2.02	0.41
5:B:1064:TYR:CE2	11:J:44:TYR:HE2	2.38	0.41
6:C:18:VAL:O	6:C:231:ASN:HA	2.20	0.41
6:C:70:ILE:HG22	6:C:70:ILE:H	1.55	0.41
7:E:110:PHE:C	7:E:110:PHE:HD1	2.28	0.41
7:E:181:ALA:C	7:E:186:LEU:HD11	2.45	0.41
8:F:75:PRO:HB2	8:F:77:ASP:H	1.85	0.41
9:H:77:ARG:O	9:H:78:SER:O	2.38	0.41
9:H:109:LYS:CB	9:H:111:LEU:HB2	2.49	0.41
11:J:21:TYR:C	11:J:23:ASN:N	2.77	0.41
12:K:32:VAL:CG2	12:K:74:ARG:CG	2.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:K:85:ASP:O	12:K:86:ALA:C	2.59	0.41
1:R:2:U:C4	1:R:3:C:N4	2.88	0.41
4:A:108:MET:HA	4:A:108:MET:HE3	2.02	0.41
4:A:260:ASP:HB3	4:A:261:ASP:H	1.56	0.41
4:A:315:LEU:HA	4:A:318:SER:O	2.20	0.41
4:A:352:VAL:HA	4:A:486:GLU:HA	2.01	0.41
4:A:464:PRO:C	4:A:465:TYR:HD1	2.28	0.41
4:A:517:ASN:OD1	4:A:517:ASN:O	2.38	0.41
4:A:549:MET:O	4:A:552:TRP:N	2.53	0.41
4:A:765:VAL:HG23	4:A:766:GLY:N	2.34	0.41
4:A:924:LYS:HE3	4:A:924:LYS:HB2	1.93	0.41
4:A:1135:ARG:O	4:A:1139:GLU:CB	2.68	0.41
4:A:1348:LEU:HD12	4:A:1348:LEU:O	2.20	0.41
4:A:1441:PHE:CD2	8:F:89:GLU:HG2	2.56	0.41
5:B:90:ILE:CG2	5:B:91:SER:N	2.80	0.41
5:B:115:GLN:CG	5:B:115:GLN:NE2	2.68	0.41
5:B:214:ALA:O	5:B:215:GLN:HG2	2.18	0.41
5:B:326:ASP:OD1	5:B:329:THR:OG1	2.37	0.41
5:B:422:LYS:C	5:B:426:LYS:NZ	2.78	0.41
5:B:509:ALA:HA	5:B:509:ALA:O	2.19	0.41
5:B:586:TRP:CD1	5:B:588:GLY:H	2.38	0.41
5:B:992:ILE:HG13	5:B:993:THR:H	1.84	0.41
6:C:201:TRP:CD1	6:C:201:TRP:N	2.82	0.41
7:E:41:ASP:HA	7:E:44:ALA:HB3	2.01	0.41
10:I:3:THR:CG2	10:I:3:THR:HB	2.23	0.41
12:K:6:ARG:HH11	12:K:6:ARG:HD2	1.65	0.41
12:K:50:LEU:HD21	12:K:75:ILE:HD13	2.02	0.41
12:K:96:ASN:O	12:K:100:ALA:N	2.52	0.41
4:A:33:ALA:HB1	4:A:35:ILE:CD1	2.51	0.41
4:A:53:LEU:HB3	4:A:54:ASN:HB3	2.02	0.41
4:A:206:GLU:O	4:A:210:ILE:CG1	2.68	0.41
4:A:273:ASN:N	4:A:296:LEU:CD1	2.74	0.41
4:A:504:LEU:HD12	4:A:504:LEU:N	2.35	0.41
4:A:567:LYS:HB2	9:H:95:TYR:HA	2.02	0.41
4:A:602:ASP:HB3	4:A:616:VAL:HG23	2.01	0.41
4:A:693:VAL:O	4:A:696:GLU:HB3	2.20	0.41
4:A:833:GLU:O	4:A:836:TYR:N	2.51	0.41
4:A:900:ASP:N	4:A:926:GLN:NE2	2.59	0.41
4:A:974:ASP:OD1	4:A:974:ASP:N	2.53	0.41
4:A:1131:ALA:C	4:A:1134:ILE:HG13	2.41	0.41
4:A:1366:ARG:HG2	4:A:1366:ARG:H	1.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:203:PHE:CD1	5:B:461:LEU:HD21	2.55	0.41
5:B:430:ARG:HB3	5:B:434:ARG:NH1	2.35	0.41
5:B:567:GLU:O	5:B:569:TYR:N	2.44	0.41
5:B:572:HIS:CD2	5:B:572:HIS:C	2.96	0.41
5:B:648:HIS:NE2	5:B:650:GLU:OE1	2.50	0.41
5:B:798:TYR:H	5:B:799:PRO:HD3	1.84	0.41
6:C:37:MET:HE3	6:C:37:MET:HB2	1.87	0.41
6:C:221:TYR:CD2	6:C:221:TYR:N	2.88	0.41
7:E:59:SER:HB3	7:E:81:GLU:HB2	2.02	0.41
7:E:122:LYS:C	7:E:123:LEU:HD23	2.45	0.41
7:E:179:GLN:CB	7:E:182:ASP:HB2	2.50	0.41
7:E:182:ASP:O	7:E:185:ALA:N	2.54	0.41
9:H:36:CYS:C	9:H:37:LYS:HG2	2.43	0.41
10:I:77:LYS:CA	10:I:77:LYS:HB2	2.23	0.41
10:I:107:SER:C	10:I:107:SER:N	2.70	0.41
12:K:47:ARG:HH11	12:K:47:ARG:HB3	1.85	0.41
12:K:92:ASN:O	12:K:95:ILE:HB	2.21	0.41
2:T:13:DA:H2"	2:T:14:DG:C8	2.56	0.41
2:T:28:DT:H2"	4:A:317:LYS:CB	2.41	0.41
4:A:140:THR:HG22	4:A:143:LYS:NZ	2.35	0.41
4:A:295:LEU:HA	4:A:295:LEU:HD12	1.80	0.41
4:A:379:VAL:HG13	4:A:380:VAL:N	2.33	0.41
4:A:500:GLU:OE2	5:B:1145:SER:HB2	2.20	0.41
4:A:567:LYS:CB	9:H:95:TYR:HA	2.50	0.41
4:A:691:LEU:HA	4:A:691:LEU:HD13	1.36	0.41
4:A:856:THR:HG21	4:A:865:GLN:HB2	2.03	0.41
4:A:932:GLU:OE1	4:A:987:VAL:HG22	2.19	0.41
4:A:1051:ALA:HB3	4:A:1052:GLN:H	1.43	0.41
4:A:1146:VAL:HG11	4:A:1202:MET:SD	2.61	0.41
4:A:1203:ASN:O	4:A:1205:LYS:N	2.53	0.41
5:B:132:VAL:HG23	5:B:132:VAL:H	1.54	0.41
5:B:168:GLY:C	5:B:454:THR:HG1	2.24	0.41
5:B:269:ILE:HG22	5:B:270:LYS:N	2.35	0.41
5:B:287:ARG:NH1	5:B:324:ILE:O	2.54	0.41
5:B:420:LEU:C	5:B:422:LYS:N	2.78	0.41
5:B:423:LYS:CA	5:B:426:LYS:HZ3	2.33	0.41
5:B:428:ILE:C	5:B:430:ARG:H	2.24	0.41
5:B:448:ILE:H	5:B:448:ILE:HG12	1.43	0.41
5:B:471:LYS:HD3	5:B:476:ARG:HH21	1.85	0.41
5:B:557:PHE:O	5:B:557:PHE:HD2	1.88	0.41
5:B:845:SER:O	5:B:846:ILE:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:999:MET:HE3	5:B:999:MET:CA	2.49	0.41
6:C:144:ILE:O	6:C:145:CYS:CB	2.61	0.41
6:C:174:ALA:O	6:C:175:ALA:CB	2.54	0.41
7:E:12:LEU:HD12	7:E:12:LEU:HA	1.71	0.41
9:H:84:ALA:CB	9:H:87:ARG:HB2	2.50	0.41
10:I:12:ASN:HB3	10:I:13:MET:H	0.98	0.41
10:I:96:SER:CB	10:I:98:VAL:CG2	2.93	0.41
4:A:24:PRO:HB3	4:A:237:THR:CG2	2.48	0.41
4:A:34:LYS:N	4:A:83:HIS:HD2	2.18	0.41
4:A:35:ILE:CG2	4:A:270:LEU:HD13	2.29	0.41
4:A:232:GLU:O	4:A:235:ILE:HD12	2.20	0.41
4:A:261:ASP:OD2	4:A:323:LYS:HD2	2.17	0.41
4:A:304:MET:SD	5:B:1210:MET:HG3	2.60	0.41
4:A:314:ALA:HB1	4:A:320:ARG:HA	2.03	0.41
4:A:874:ASP:OD1	4:A:876:ALA:HB3	2.21	0.41
4:A:990:VAL:HG12	4:A:991:LYS:N	2.35	0.41
4:A:1273:LEU:HA	4:A:1273:LEU:HD12	1.85	0.41
4:A:1355:VAL:CA	4:A:1355:VAL:CG1	2.83	0.41
5:B:104:GLU:CG	13:L:54:ARG:CZ	2.98	0.41
5:B:202:TYR:CD1	5:B:203:PHE:O	2.69	0.41
5:B:299:GLU:O	5:B:300:HIS:C	2.63	0.41
5:B:402:GLY:HA3	5:B:695:ALA:HB1	2.01	0.41
5:B:420:LEU:C	5:B:422:LYS:H	2.28	0.41
5:B:468:GLU:HG2	5:B:469:GLN:H	1.85	0.41
5:B:590:HIS:CD2	5:B:596:LEU:CD2	3.04	0.41
5:B:655:LYS:O	5:B:656:GLY:C	2.62	0.41
5:B:701:ILE:HG21	5:B:740:HIS:HE2	1.86	0.41
5:B:839:MET:HB2	5:B:1010:LEU:HD11	2.01	0.41
5:B:868:MET:O	5:B:869:SER:CB	2.69	0.41
6:C:73:GLN:CG	6:C:75:MET:H	2.33	0.41
6:C:248:ILE:O	6:C:251:LEU:HB3	2.20	0.41
7:E:100:ILE:CD1	7:E:108:GLY:HA2	2.50	0.41
7:E:164:LEU:O	7:E:166:LYS:N	2.54	0.41
9:H:32:THR:HG22	9:H:33:GLN:CD	2.34	0.41
4:A:18:GLN:HE21	4:A:1418:LEU:CB	2.24	0.41
4:A:32:VAL:HA	4:A:57:ARG:NH1	2.35	0.41
4:A:67:CYS:O	4:A:68:GLN:CD	2.63	0.41
4:A:288:ALA:C	4:A:289:ILE:O	2.62	0.41
4:A:382:PRO:CD	4:A:428:TYR:CD2	3.04	0.41
4:A:463:ILE:HB	4:A:464:PRO:CD	2.39	0.41
4:A:496:GLU:C	4:A:498:ARG:N	2.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:569:LYS:HG2	4:A:571:LEU:HD11	2.02	0.41
4:A:853:ASP:OD1	4:A:853:ASP:C	2.63	0.41
4:A:905:ASP:C	4:A:905:ASP:N	2.72	0.41
4:A:941:LYS:O	4:A:943:LEU:C	2.63	0.41
4:A:1099:PRO:HG2	4:A:1100:ARG:N	2.26	0.41
4:A:1129:GLU:O	4:A:1132:LYS:N	2.54	0.41
4:A:1224:LEU:HD12	4:A:1241:ARG:C	2.46	0.41
4:A:1331:SER:O	4:A:1334:ASP:HB2	2.21	0.41
4:A:1339:LEU:HD23	4:A:1339:LEU:HA	1.79	0.41
4:A:1444:MET:HE1	8:F:135:ARG:HH21	1.85	0.41
5:B:58:THR:HB	5:B:59:LEU:H	1.68	0.41
5:B:284:ILE:H	5:B:284:ILE:HG12	1.51	0.41
5:B:435:THR:CG2	5:B:437:GLU:C	2.93	0.41
5:B:1051:THR:HG22	5:B:1052:VAL:CA	2.49	0.41
6:C:148:ARG:O	6:C:149:LYS:C	2.58	0.41
6:C:246:ARG:HA	6:C:249:ASP:HB3	2.03	0.41
7:E:26:ARG:HD3	7:E:188:LEU:C	2.45	0.41
7:E:75:MET:HG3	7:E:76:GLY:N	2.35	0.41
9:H:15:VAL:CG2	9:H:49:VAL:CG1	2.98	0.41
9:H:81:PRO:HB2	9:H:82:PRO:N	2.35	0.41
9:H:110:ASP:O	9:H:128:ASN:HB2	2.21	0.41
11:J:43:ARG:HG3	11:J:45:CYS:SG	2.60	0.41
4:A:4:GLN:HG2	4:A:76:GLU:HB2	2.03	0.41
4:A:12:ARG:HD3	5:B:1192:TYR:CE2	2.48	0.41
4:A:105:CYS:C	4:A:114:LEU:HD11	2.46	0.41
4:A:274:ILE:CA	4:A:274:ILE:HB	2.27	0.41
4:A:294:SER:O	4:A:298:PHE:CB	2.67	0.41
4:A:326:ARG:HG2	4:A:1406:VAL:HG21	2.03	0.41
4:A:406:ILE:HG22	4:A:407:ARG:H	1.86	0.41
4:A:606:LEU:O	4:A:607:ILE:CG1	2.67	0.41
4:A:608:ILE:O	4:A:611:GLN:HB2	2.21	0.41
4:A:868:TYR:O	4:A:872:GLY:N	2.52	0.41
4:A:939:ASP:O	4:A:941:LYS:N	2.53	0.41
4:A:1103:GLU:O	4:A:1104:ILE:C	2.61	0.41
4:A:1217:LYS:O	4:A:1221:LYS:N	2.53	0.41
4:A:1322:ILE:H	4:A:1322:ILE:CD1	2.29	0.41
5:B:21:GLU:H	5:B:21:GLU:HG2	1.66	0.41
5:B:128:LEU:HA	5:B:128:LEU:HD12	1.48	0.41
5:B:288:ALA:O	5:B:327:ARG:NH2	2.49	0.41
5:B:333:PHE:CD1	5:B:333:PHE:C	2.90	0.41
5:B:498:THR:CG2	5:B:499:ASN:N	2.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:955:THR:HG22	5:B:956:THR:H	1.53	0.41
5:B:1084:GLN:HE22	6:C:191:TYR:HA	1.84	0.41
5:B:1202:LEU:HB3	5:B:1203:LEU:H	0.95	0.41
6:C:138:GLU:OE1	6:C:140:ASN:ND2	2.54	0.41
7:E:35:VAL:N	7:E:35:VAL:HB	2.35	0.41
9:H:93:TYR:CD2	9:H:145:ARG:CG	3.03	0.41
11:J:57:ILE:O	11:J:57:ILE:HG13	2.20	0.41
4:A:335:ARG:H	4:A:335:ARG:HE	1.67	0.41
4:A:464:PRO:HB2	4:A:465:TYR:HD1	1.80	0.41
4:A:476:SER:CB	4:A:477:PRO:CD	2.95	0.41
4:A:645:LEU:HD11	4:A:649:ILE:HG12	2.03	0.41
4:A:722:LEU:O	4:A:723:ASN:C	2.57	0.41
4:A:834:THR:HG21	4:A:1077:THR:CA	2.51	0.41
4:A:856:THR:HG21	4:A:865:GLN:CB	2.51	0.41
4:A:1209:MET:HA	4:A:1212:VAL:CG2	2.50	0.41
4:A:1268:LEU:HD23	4:A:1268:LEU:HA	1.67	0.41
5:B:173:MET:O	5:B:176:SER:N	2.49	0.41
5:B:195:CYS:H	5:B:784:ASN:ND2	2.19	0.41
5:B:229:ALA:O	5:B:230:ALA:O	2.39	0.41
5:B:354:ASP:CG	5:B:354:ASP:CA	2.85	0.41
5:B:600:LEU:O	5:B:601:ARG:C	2.64	0.41
5:B:646:LEU:CG	5:B:646:LEU:HB2	2.23	0.41
5:B:781:PHE:O	5:B:782:LEU:CG	2.61	0.41
6:C:3:GLU:HG2	12:K:104:ASN:HD21	1.86	0.41
6:C:163:ILE:O	6:C:166:GLU:N	2.42	0.41
6:C:181:ASP:OD1	6:C:181:ASP:C	2.61	0.41
6:C:237:SER:O	6:C:238:ILE:HG13	2.20	0.41
7:E:198:ILE:HD11	7:E:212:ARG:HG3	2.02	0.41
8:F:84:TYR:HA	8:F:152:ILE:HB	2.02	0.41
8:F:128:LYS:CE	8:F:149:GLU:O	2.69	0.41
9:H:5:LEU:O	9:H:6:PHE:CB	2.59	0.41
9:H:101:ALA:HB1	9:H:115:TYR:O	2.20	0.41
1:R:5:A:C5	1:R:6:G:N7	2.89	0.41
3:N:4:DC:C6	3:N:5:DT:H72	2.56	0.41
4:A:89:PRO:HB2	4:A:204:THR:HG22	2.02	0.41
4:A:91:PHE:O	4:A:297:GLN:NE2	2.54	0.41
4:A:239:LEU:CD1	4:A:239:LEU:C	2.94	0.41
4:A:257:ARG:CB	4:A:257:ARG:N	2.72	0.41
4:A:284:ALA:CB	4:A:284:ALA:N	2.74	0.41
4:A:359:LEU:HD22	4:A:363:GLN:HB2	2.03	0.41
4:A:511:ILE:O	4:A:519:PRO:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:568:PRO:HB3	6:C:221:TYR:HE1	1.81	0.41
4:A:605:MET:SD	4:A:605:MET:HB2	2.58	0.41
4:A:666:ILE:HA	5:B:1026:LEU:HD12	1.99	0.41
4:A:708:MET:HB2	4:A:712:GLU:HB2	2.02	0.41
4:A:718:VAL:HG23	4:A:718:VAL:H	1.57	0.41
4:A:764:CYS:C	4:A:764:CYS:N	2.66	0.41
4:A:901:LEU:HD23	4:A:901:LEU:HA	1.55	0.41
4:A:998:LEU:H	4:A:1011:GLN:HE22	1.68	0.41
4:A:1045:VAL:O	4:A:1046:LEU:C	2.61	0.41
4:A:1138:ILE:C	4:A:1275:GLY:HA2	2.46	0.41
4:A:1148:ILE:HG22	4:A:1149:ALA:N	2.35	0.41
4:A:1166:ASP:OD2	4:A:1239:ARG:CD	2.68	0.41
4:A:1198:ASP:O	4:A:1199:ARG:C	2.63	0.41
4:A:1209:MET:CE	4:A:1238:ILE:HG12	2.51	0.41
4:A:1322:ILE:HD13	4:A:1322:ILE:N	2.28	0.41
4:A:1371:LEU:C	4:A:1371:LEU:HD12	2.45	0.41
5:B:114:PRO:HG2	5:B:181:LEU:HD11	2.03	0.41
5:B:195:CYS:HB3	5:B:198:ASP:HB2	2.03	0.41
5:B:236:HIS:O	5:B:237:VAL:HG23	2.20	0.41
5:B:292:ILE:HB	5:B:293:PRO:HD3	2.03	0.41
5:B:331:LEU:HA	5:B:331:LEU:HD12	1.49	0.41
5:B:356:LEU:HA	5:B:360:PHE:HB3	2.02	0.41
5:B:374:LYS:O	5:B:377:PHE:N	2.51	0.41
5:B:392:ARG:O	5:B:393:LYS:CE	2.66	0.41
5:B:466:TRP:CA	5:B:475:SER:OG	2.68	0.41
5:B:529:GLU:H	5:B:529:GLU:HG3	1.76	0.41
5:B:547:VAL:N	5:B:612:GLU:OE2	2.54	0.41
5:B:758:PHE:CE2	5:B:1044:ALA:CA	3.03	0.41
5:B:806:THR:CG2	5:B:807:ARG:N	2.83	0.41
5:B:821:GLN:HB2	5:B:851:PHE:CE2	2.56	0.41
5:B:834:ASN:HB3	5:B:840:ILE:HG13	2.02	0.41
5:B:1147:LEU:HD23	5:B:1147:LEU:HA	1.61	0.41
5:B:1159:ARG:NE	5:B:1193:GLN:HG3	2.36	0.41
5:B:1175:LEU:HA	5:B:1175:LEU:HD23	1.66	0.41
6:C:74:SER:CA	6:C:77:ILE:HG12	2.50	0.41
6:C:80:LEU:HG	6:C:81:GLU:N	2.35	0.41
7:E:11:ARG:C	7:E:13:TRP:N	2.78	0.41
7:E:85:GLU:C	7:E:87:SER:H	2.28	0.41
7:E:102:GLU:O	7:E:103:LYS:C	2.63	0.41
7:E:177:ARG:HD3	7:E:215:MET:SD	2.61	0.41
7:E:182:ASP:O	7:E:183:PRO:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:189:GLY:CA	7:E:190:LEU:HD23	2.50	0.41
8:F:132:LEU:HA	8:F:132:LEU:HD23	1.75	0.41
9:H:57:VAL:CG1	9:H:58:THR:N	2.83	0.41
9:H:129:TYR:C	9:H:131:ASN:H	2.28	0.41
10:I:61:ASP:O	10:I:62:ILE:C	2.63	0.41
10:I:81:ARG:HG3	10:I:81:ARG:HH11	1.86	0.41
10:I:119:THR:C	10:I:120:GLN:HG2	2.46	0.41
12:K:93:SER:O	12:K:97:LYS:CG	2.63	0.41
13:L:26:THR:C	13:L:26:THR:N	2.75	0.41
3:N:5:DT:C6	3:N:6:DT:H72	2.56	0.41
4:A:25:GLU:HB3	4:A:26:GLU:H	1.70	0.41
4:A:58:LEU:CD2	4:A:243:PRO:CB	2.80	0.41
4:A:90:VAL:HG11	4:A:297:GLN:CB	2.51	0.41
4:A:451:HIS:N	4:A:1070:GLN:HG2	2.35	0.41
4:A:462:VAL:HG12	4:A:463:ILE:N	2.36	0.41
4:A:506:ALA:O	4:A:507:VAL:C	2.63	0.41
4:A:534:LEU:O	4:A:539:THR:CG2	2.68	0.41
4:A:544:ASP:O	4:A:545:GLN:C	2.64	0.41
4:A:607:ILE:HG12	4:A:612:ILE:CA	2.47	0.41
4:A:607:ILE:HD11	4:A:612:ILE:HB	2.03	0.41
4:A:613:ILE:O	4:A:613:ILE:HG22	2.21	0.41
4:A:697:ALA:HB2	4:A:702:LEU:HG	2.02	0.41
4:A:892:ALA:CB	4:A:895:LYS:HD3	2.50	0.41
4:A:913:LEU:CD1	4:A:914:GLU:H	2.33	0.41
4:A:914:GLU:C	4:A:916:GLY:N	2.79	0.41
4:A:1006:ILE:HD11	7:E:163:GLU:CD	2.46	0.41
4:A:1009:ASN:CG	4:A:1012:ARG:NH1	2.79	0.41
4:A:1037:LEU:N	4:A:1037:LEU:HD23	2.33	0.41
4:A:1350:LYS:CB	4:A:1350:LYS:HG3	2.19	0.41
5:B:219:ALA:HB2	5:B:405:ARG:CZ	2.51	0.41
5:B:731:VAL:CG1	5:B:732:SER:N	2.67	0.41
5:B:801:LYS:H	11:J:52:THR:HG23	1.82	0.41
5:B:881:ASN:CB	5:B:881:ASN:ND2	2.70	0.41
5:B:1152:MET:CE	5:B:1195:HIS:O	2.69	0.41
6:C:74:SER:CB	6:C:77:ILE:CG1	2.99	0.41
6:C:248:ILE:CG2	12:K:102:LYS:HB2	2.49	0.41
7:E:17:ARG:HH11	7:E:17:ARG:HD3	1.67	0.41
7:E:138:ALA:C	7:E:141:VAL:HG23	2.46	0.41
10:I:103:CYS:O	10:I:104:LEU:CD2	2.48	0.41
13:L:31:CYS:HA	13:L:56:LEU:HA	2.03	0.41
2:T:15:DA:H3'	2:T:15:DA:OP2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:381:THR:O	4:A:381:THR:HG22	2.19	0.40
4:A:457:ALA:HB3	4:A:506:ALA:HB2	2.03	0.40
4:A:567:LYS:CE	9:H:95:TYR:CD2	3.04	0.40
4:A:642:CYS:O	4:A:645:LEU:N	2.54	0.40
4:A:1050:GLU:C	4:A:1054:LEU:HD12	2.46	0.40
4:A:1151:GLU:CD	4:A:1153:TYR:HE1	2.29	0.40
4:A:1263:ILE:HG23	4:A:1267:MET:HG3	2.02	0.40
4:A:1332:PHE:HE1	4:A:1381:LEU:HD13	1.85	0.40
5:B:40:GLU:OE2	5:B:681:TRP:HB3	2.21	0.40
5:B:460:ALA:O	5:B:461:LEU:C	2.63	0.40
5:B:638:PHE:O	5:B:740:HIS:HA	2.21	0.40
5:B:737:THR:CG2	10:I:66:PRO:CB	2.93	0.40
5:B:1079:LYS:O	5:B:1080:LYS:C	2.60	0.40
6:C:242:GLN:O	6:C:243:VAL:O	2.39	0.40
7:E:93:MET:CG	7:E:123:LEU:O	2.69	0.40
7:E:103:LYS:O	7:E:104:ASN:C	2.64	0.40
9:H:42:ILE:HG22	9:H:44:VAL:HG22	2.04	0.40
9:H:114:VAL:CG1	9:H:114:VAL:CG2	2.79	0.40
10:I:10:CYS:O	10:I:11:ASN:C	2.65	0.40
11:J:58:GLU:HA	11:J:61:LEU:HD12	2.02	0.40
12:K:96:ASN:O	12:K:100:ALA:HB2	2.21	0.40
2:T:21:DC:C5'	2:T:21:DC:P	3.05	0.40
3:N:13:DA:H1'	3:N:14:DG:H5'	2.03	0.40
4:A:76:GLU:O	4:A:76:GLU:CG	2.69	0.40
4:A:82:GLY:O	4:A:83:HIS:CB	2.56	0.40
4:A:211:PHE:O	4:A:213:HIS:C	2.65	0.40
4:A:257:ARG:CB	4:A:258:GLY:CA	3.00	0.40
4:A:332:LYS:C	4:A:334:GLY:N	2.77	0.40
4:A:351:THR:HG23	5:B:1103:ILE:HG23	2.04	0.40
4:A:356:ASP:OD2	12:K:65:HIS:HE1	2.03	0.40
4:A:402:ALA:HB1	4:A:403:LYS:H	1.51	0.40
4:A:523:ILE:HG22	4:A:523:ILE:O	2.21	0.40
4:A:552:TRP:NE1	4:A:655:PHE:HD1	2.19	0.40
4:A:629:LEU:O	4:A:629:LEU:HD23	2.20	0.40
4:A:843:LYS:HZ2	4:A:1401:SER:HB2	1.87	0.40
4:A:875:ALA:HB2	4:A:1366:ARG:HD2	2.03	0.40
4:A:889:SER:OG	4:A:892:ALA:HB3	2.22	0.40
4:A:897:TYR:CB	4:A:936:LEU:CD1	2.98	0.40
4:A:925:LEU:O	4:A:927:VAL:C	2.64	0.40
4:A:1284:MET:HB3	4:A:1284:MET:HE3	2.01	0.40
4:A:1349:TYR:O	4:A:1351:GLU:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1422:ARG:NH2	5:B:1220:ARG:CD	2.72	0.40
5:B:68:THR:O	5:B:69:LEU:HD21	2.13	0.40
5:B:168:GLY:HA3	5:B:454:THR:OG1	2.14	0.40
5:B:282:ILE:O	5:B:285:ILE:HB	2.20	0.40
5:B:487:THR:HG22	5:B:488:TYR:C	2.46	0.40
5:B:840:ILE:O	5:B:1011:ILE:N	2.35	0.40
5:B:900:ALA:HA	5:B:901:PRO:HD3	1.61	0.40
5:B:1012:ILE:HD12	5:B:1012:ILE:C	2.47	0.40
5:B:1024:ALA:HA	5:B:1027:ILE:HG13	2.03	0.40
6:C:9:LYS:CD	6:C:9:LYS:CB	2.82	0.40
6:C:35:ARG:O	6:C:39:ALA:N	2.48	0.40
7:E:138:ALA:O	7:E:141:VAL:HG23	2.21	0.40
8:F:99:LEU:O	8:F:100:GLN:C	2.62	0.40
8:F:125:LEU:C	8:F:127:GLU:N	2.78	0.40
9:H:38:LEU:HD13	9:H:125:LEU:CD1	2.48	0.40
9:H:56:THR:C	9:H:57:VAL:CG2	2.93	0.40
9:H:93:TYR:CD2	9:H:145:ARG:HG2	2.55	0.40
9:H:109:LYS:CG	9:H:110:ASP:OD2	2.69	0.40
9:H:135:LEU:HD23	9:H:136:LYS:CD	2.49	0.40
13:L:31:CYS:SG	13:L:32:ALA:N	2.94	0.40
2:T:2:DT:H1'	2:T:3:DA:H5'	2.03	0.40
2:T:20:DC:C4'	4:A:447:GLN:CD	2.90	0.40
4:A:31:SER:CB	4:A:83:HIS:HB3	2.52	0.40
4:A:181:LEU:HA	4:A:181:LEU:HD23	1.63	0.40
4:A:346:ASP:O	4:A:347:PHE:HB2	2.19	0.40
4:A:361:LEU:HA	4:A:361:LEU:HD12	1.51	0.40
4:A:443:LEU:HD23	4:A:443:LEU:C	2.45	0.40
4:A:475:THR:CG2	4:A:476:SER:N	2.84	0.40
4:A:645:LEU:HD11	4:A:649:ILE:CG1	2.51	0.40
4:A:645:LEU:HG	4:A:649:ILE:HD11	2.02	0.40
4:A:668:ASP:HA	4:A:741:ASN:OD1	2.21	0.40
4:A:711:ARG:NH1	10:I:95:THR:HB	2.30	0.40
4:A:741:ASN:C	4:A:743:VAL:N	2.78	0.40
4:A:1006:ILE:HD11	7:E:163:GLU:CG	2.51	0.40
4:A:1208:THR:CB	4:A:1211:GLN:HB2	2.28	0.40
4:A:1349:TYR:O	4:A:1350:LYS:C	2.63	0.40
5:B:305:VAL:CG2	5:B:305:VAL:CA	2.96	0.40
5:B:802:PRO:HB3	5:B:1091:TYR:CZ	2.56	0.40
5:B:918:ILE:CB	5:B:918:ILE:C	2.85	0.40
6:C:123:ASN:HD21	6:C:125:MET:HA	1.87	0.40
6:C:206:ASN:HD21	6:C:229:TYR:HB2	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:165:LEU:HA	7:E:165:LEU:HD22	1.53	0.40
9:H:13:SER:OG	9:H:27:GLU:O	2.37	0.40
9:H:40:LEU:HA	9:H:40:LEU:HD12	1.26	0.40
9:H:57:VAL:C	9:H:57:VAL:HG12	2.44	0.40
10:I:63:GLY:HA2	10:I:104:LEU:HD11	2.03	0.40
10:I:68:LEU:HD23	10:I:68:LEU:HA	1.70	0.40
11:J:10:CYS:CB	11:J:45:CYS:SG	3.09	0.40
2:T:27:DA:N1	4:A:252:PHE:CE2	2.90	0.40
4:A:295:LEU:C	4:A:297:GLN:N	2.79	0.40
4:A:351:THR:HB	4:A:352:VAL:O	2.21	0.40
4:A:391:LEU:C	4:A:393:ARG:H	2.27	0.40
4:A:886:ILE:HD13	4:A:886:ILE:HA	2.00	0.40
4:A:1035:TYR:C	4:A:1037:LEU:N	2.78	0.40
4:A:1137:ALA:HB3	4:A:1138:ILE:CD1	2.51	0.40
4:A:1146:VAL:HG13	4:A:1201:ALA:HB3	2.03	0.40
4:A:1215:ARG:NH1	4:A:1272:THR:O	2.54	0.40
4:A:1349:TYR:CD2	4:A:1350:LYS:N	2.89	0.40
5:B:48:LEU:H	5:B:48:LEU:HG	1.35	0.40
5:B:101:MET:CA	5:B:102:VAL:HG23	2.50	0.40
5:B:169:ARG:CB	5:B:454:THR:HG23	2.47	0.40
5:B:185:THR:O	5:B:189:LEU:HD12	2.21	0.40
5:B:190:TYR:HD2	11:J:63:TYR:CZ	2.40	0.40
5:B:349:ILE:HD12	5:B:349:ILE:N	2.36	0.40
5:B:815:ARG:HB2	5:B:816:GLU:OE2	2.20	0.40
5:B:1159:ARG:HE	5:B:1193:GLN:HG3	1.85	0.40
6:C:184:ASN:OD1	6:C:187:LYS:CA	2.69	0.40
7:E:17:ARG:O	7:E:21:GLU:N	2.45	0.40
8:F:120:ILE:O	8:F:123:LYS:N	2.55	0.40
9:H:47:PHE:C	9:H:48:PRO:O	2.64	0.40
9:H:84:ALA:HA	9:H:86:ASP:H	1.83	0.40
9:H:106:GLU:C	9:H:108:SER:N	2.79	0.40
10:I:31:THR:CG2	10:I:32:CYS:CA	2.97	0.40
10:I:41:PRO:C	10:I:43:VAL:HG23	2.46	0.40
11:J:2:ILE:O	11:J:53:HIS:CD2	2.71	0.40
12:K:22:ASP:CB	12:K:23:PRO:HD2	2.43	0.40
12:K:43:GLY:N	12:K:71:PHE:CE2	2.90	0.40
12:K:44:ASN:HA	12:K:61:TYR:CE2	2.56	0.40
12:K:75:ILE:HG22	12:K:76:GLN:N	2.36	0.40
12:K:105:PHE:C	12:K:105:PHE:CD2	2.99	0.40
3:N:6:DT:H1'	3:N:7:DA:H5'	2.03	0.40
4:A:41:MET:HG2	4:A:49:LYS:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:71:GLN:O	4:A:73:GLY:CA	2.69	0.40
4:A:89:PRO:C	4:A:204:THR:HG23	2.46	0.40
4:A:98:LYS:CG	4:A:98:LYS:HA	2.52	0.40
4:A:100:LYS:CB	4:A:100:LYS:HZ2	2.34	0.40
4:A:101:LYS:CA	4:A:139:TRP:HE1	2.32	0.40
4:A:303:TYR:O	4:A:303:TYR:CG	2.71	0.40
4:A:571:LEU:CD1	4:A:571:LEU:N	2.78	0.40
4:A:1044:TRP:C	4:A:1046:LEU:N	2.76	0.40
4:A:1073:GLY:O	4:A:1076:ALA:CB	2.64	0.40
4:A:1121:GLU:CA	4:A:1121:GLU:HB3	2.21	0.40
4:A:1155:ASP:HB3	4:A:1241:ARG:HH21	1.86	0.40
4:A:1224:LEU:CG	4:A:1226:VAL:HG22	2.50	0.40
4:A:1408:ILE:O	4:A:1412:ALA:HB2	2.21	0.40
5:B:492:LEU:O	5:B:493:SER:C	2.61	0.40
5:B:638:PHE:HB3	5:B:689:LEU:O	2.21	0.40
5:B:730:ARG:HA	5:B:731:VAL:HG23	2.02	0.40
5:B:830:TYR:HB3	5:B:831:SER:H	1.17	0.40
5:B:842:ASN:HB2	5:B:1008:PRO:O	2.22	0.40
5:B:866:TYR:CG	5:B:866:TYR:HB2	2.24	0.40
5:B:1034:VAL:O	5:B:1037:LEU:HB2	2.21	0.40
6:C:77:ILE:HG22	6:C:78:GLU:N	2.28	0.40
6:C:145:CYS:HA	11:J:2:ILE:CD1	2.51	0.40
7:E:4:GLU:HG3	7:E:7:ARG:HH21	1.87	0.40
7:E:50:MET:HB3	7:E:52:ARG:HG3	2.03	0.40
8:F:138:LEU:N	8:F:142:SER:O	2.51	0.40
9:H:16:ASP:HA	9:H:17:PRO:HD2	2.00	0.40
10:I:10:CYS:SG	10:I:32:CYS:HB3	2.62	0.40
10:I:89:GLN:H	10:I:89:GLN:HG2	1.47	0.40

All (4) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:1:DC:C4'	2:T:1:DC:C4'[2_656]	1.63	0.57
2:T:1:DC:C5'	2:T:1:DC:O4'[2_656]	1.69	0.51
2:T:1:DC:O4'	2:T:1:DC:O4'[2_656]	1.78	0.42
2:T:1:DC:C4'	2:T:1:DC:O4'[2_656]	1.80	0.40

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	A	1383/1733 (80%)	816 (59%)	306 (22%)	261 (19%)	0	1
5	B	1088/1224 (89%)	708 (65%)	199 (18%)	181 (17%)	0	2
6	C	264/318 (83%)	170 (64%)	58 (22%)	36 (14%)	0	3
7	E	212/215 (99%)	119 (56%)	47 (22%)	46 (22%)	0	1
8	F	82/155 (53%)	45 (55%)	22 (27%)	15 (18%)	0	1
9	H	129/146 (88%)	75 (58%)	28 (22%)	26 (20%)	0	1
10	I	117/122 (96%)	60 (51%)	32 (27%)	25 (21%)	0	1
11	J	63/70 (90%)	41 (65%)	10 (16%)	12 (19%)	0	1
12	K	112/120 (93%)	78 (70%)	18 (16%)	16 (14%)	0	3
13	L	44/70 (63%)	21 (48%)	11 (25%)	12 (27%)	0	0
All	All	3494/4173 (84%)	2133 (61%)	731 (21%)	630 (18%)	0	1

All (630) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	A	34	LYS
4	A	44	THR
4	A	48	ALA
4	A	51	GLY
4	A	55	ASP
4	A	56	PRO
4	A	59	GLY
4	A	62	ASP
4	A	63	ARG
4	A	68	GLN
4	A	69	THR
4	A	72	GLU
4	A	76	GLU
4	A	89	PRO

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Mol	Chain	Res	Type
4	A	93	VAL
4	A	99	ILE
4	A	104	GLU
4	A	108	MET
4	A	124	GLN
4	A	125	ALA
4	A	130	ASP
4	A	131	SER
4	A	132	LYS
4	A	138	ILE
4	A	149	GLU
4	A	167	CYS
4	A	169	ASN
4	A	178	GLY
4	A	184	SER
4	A	185	TRP
4	A	204	THR
4	A	209	ASN
4	A	212	LYS
4	A	214	ILE
4	A	219	PHE
4	A	220	THR
4	A	244	PRO
4	A	250	ILE
4	A	251	SER
4	A	253	ASN
4	A	268	ASP
4	A	275	SER
4	A	280	GLU
4	A	283	GLY
4	A	288	ALA
4	A	290	GLU
4	A	295	LEU
4	A	296	LEU
4	A	309	ALA
4	A	312	PRO
4	A	313	GLN
4	A	314	ALA
4	A	317	LYS
4	A	320	ARG
4	A	321	PRO
4	A	322	VAL

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Mol	Chain	Res	Type
4	A	324	SER
4	A	325	ILE
4	A	335	ARG
4	A	336	ILE
4	A	399	HIS
4	A	404	TYR
4	A	408	ASP
4	A	409	SER
4	A	415	LEU
4	A	428	TYR
4	A	456	MET
4	A	476	SER
4	A	537	ARG
4	A	538	ASP
4	A	556	TRP
4	A	567	LYS
4	A	568	PRO
4	A	569	LYS
4	A	596	THR
4	A	597	LEU
4	A	599	SER
4	A	600	PRO
4	A	610	GLY
4	A	662	PHE
4	A	668	ASP
4	A	691	LEU
4	A	776	ALA
4	A	846	GLU
4	A	852	TYR
4	A	854	ASN
4	A	888	GLY
4	A	889	SER
4	A	895	LYS
4	A	903	ASN
4	A	904	THR
4	A	905	ASP
4	A	909	ASP
4	A	920	LEU
4	A	922	ASP
4	A	942	PHE
4	A	949	ASP
4	A	994	GLN

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Mol	Chain	Res	Type
4	A	1002	GLY
4	A	1037	LEU
4	A	1041	ALA
4	A	1046	LEU
4	A	1051	ALA
4	A	1053	PHE
4	A	1054	LEU
4	A	1080	THR
4	A	1100	ARG
4	A	1115	SER
4	A	1139	GLU
4	A	1140	HIS
4	A	1174	PHE
4	A	1200	ALA
4	A	1255	GLU
4	A	1274	ARG
4	A	1281	ARG
4	A	1287	TYR
4	A	1327	ILE
4	A	1369	ALA
4	A	1386	ARG
4	A	1388	GLY
4	A	1393	ASN
4	A	1394	THR
4	A	1395	GLY
4	A	1400	CYS
4	A	1401	SER
5	B	21	GLU
5	B	23	ALA
5	B	27	ALA
5	B	28	GLU
5	B	29	ASP
5	B	38	PHE
5	B	45	SER
5	B	46	GLN
5	B	55	VAL
5	B	65	GLU
5	B	67	SER
5	B	94	LYS
5	B	168	GLY
5	B	175	ARG
5	B	180	TYR

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Mol	Chain	Res	Type
5	B	200	GLY
5	B	214	ALA
5	B	223	VAL
5	B	229	ALA
5	B	230	ALA
5	B	248	SER
5	B	249	ARG
5	B	274	PRO
5	B	284	ILE
5	B	294	ASP
5	B	300	HIS
5	B	318	VAL
5	B	327	ARG
5	B	332	ASP
5	B	333	PHE
5	B	346	GLU
5	B	353	LYS
5	B	367	LEU
5	B	418	LYS
5	B	419	THR
5	B	432	MET
5	B	450	ALA
5	B	451	LYS
5	B	452	THR
5	B	469	GLN
5	B	470	LYS
5	B	472	ALA
5	B	473	MET
5	B	475	SER
5	B	476	ARG
5	B	477	ALA
5	B	483	LEU
5	B	488	TYR
5	B	489	SER
5	B	531	GLN
5	B	546	SER
5	B	635	ARG
5	B	636	PRO
5	B	643	ASP
5	B	645	SER
5	B	646	LEU
5	B	653	VAL

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Mol	Chain	Res	Type
5	B	663	ALA
5	B	708	GLU
5	B	709	ASP
5	B	712	PRO
5	B	723	VAL
5	B	734	HIS
5	B	738	PHE
5	B	751	VAL
5	B	774	GLY
5	B	792	MET
5	B	799	PRO
5	B	872	GLU
5	B	879	ARG
5	B	899	ILE
5	B	943	SER
5	B	958	GLN
5	B	959	ASP
5	B	981	ALA
5	B	982	SER
5	B	1060	ARG
5	B	1061	GLU
5	B	1097	HIS
5	B	1115	THR
5	B	1132	GLU
5	B	1167	GLY
5	B	1176	ASN
5	B	1178	ASN
5	B	1181	GLU
5	B	1183	LYS
5	B	1185	CYS
5	B	1202	LEU
5	B	1203	LEU
5	B	1214	PRO
6	C	28	ALA
6	C	84	ARG
6	C	107	SER
6	C	129	ILE
6	C	164	ALA
6	C	195	GLN
6	C	202	PRO
6	C	206	ASN
6	C	215	GLU

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Mol	Chain	Res	Type
6	C	240	VAL
6	C	241	ASP
6	C	256	ALA
6	C	263	THR
7	E	3	GLN
7	E	31	THR
7	E	36	GLU
7	E	37	LEU
7	E	38	PRO
7	E	53	PRO
7	E	59	SER
7	E	77	SER
7	E	90	VAL
7	E	97	VAL
7	E	103	LYS
7	E	111	VAL
7	E	112	TYR
7	E	133	GLU
7	E	137	GLU
7	E	138	ALA
7	E	158	SER
7	E	161	LYS
7	E	162	ARG
7	E	165	LEU
7	E	183	PRO
7	E	203	GLU
8	F	74	ILE
8	F	76	LYS
8	F	91	ALA
8	F	102	SER
8	F	128	LYS
8	F	143	PHE
9	H	3	ASN
9	H	43	ASN
9	H	77	ARG
9	H	80	ARG
9	H	81	PRO
9	H	82	PRO
9	H	89	LEU
9	H	90	ALA
9	H	91	ASP
9	H	109	LYS

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Mol	Chain	Res	Type
9	H	110	ASP
9	H	130	ARG
9	H	135	LEU
10	I	10	CYS
10	I	11	ASN
10	I	16	PRO
10	I	20	LYS
10	I	21	GLU
10	I	54	GLU
10	I	57	GLY
10	I	79	HIS
10	I	89	GLN
10	I	107	SER
10	I	116	ASN
11	J	2	ILE
11	J	6	ARG
11	J	64	ASN
12	K	4	PRO
12	K	7	PHE
12	K	13	GLY
12	K	27	ALA
12	K	28	PRO
12	K	50	LEU
12	K	90	ALA
12	K	100	ALA
13	L	26	THR
13	L	35	SER
13	L	47	ARG
13	L	54	ARG
13	L	55	ILE
13	L	59	ALA
13	L	64	LEU
4	A	10	PRO
4	A	27	VAL
4	A	57	ARG
4	A	74	MET
4	A	129	LYS
4	A	139	TRP
4	A	153	PRO
4	A	210	ILE
4	A	234	MET
4	A	245	PRO

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Mol	Chain	Res	Type
4	A	254	GLU
4	A	271	LYS
4	A	286	HIS
4	A	332	LYS
4	A	369	SER
4	A	385	ILE
4	A	400	PRO
4	A	451	HIS
4	A	453	MET
4	A	477	PRO
4	A	531	ILE
4	A	591	PHE
4	A	609	ASP
4	A	628	GLY
4	A	651	LYS
4	A	667	GLY
4	A	730	GLY
4	A	737	LEU
4	A	756	ILE
4	A	819	GLY
4	A	837	ILE
4	A	902	LEU
4	A	929	LEU
4	A	931	GLU
4	A	958	VAL
4	A	972	HIS
4	A	979	SER
4	A	980	ASP
4	A	985	ASP
4	A	986	ILE
4	A	998	LEU
4	A	1028	THR
4	A	1042	PHE
4	A	1065	GLY
4	A	1098	VAL
4	A	1110	ASN
4	A	1141	THR
4	A	1201	ALA
4	A	1204	ASP
4	A	1242	VAL
4	A	1260	LEU
4	A	1330	ASN

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Mol	Chain	Res	Type
4	A	1357	ALA
4	A	1368	MET
4	A	1372	VAL
4	A	1383	SER
4	A	1437	GLY
5	B	105	SER
5	B	116	GLU
5	B	124	TYR
5	B	132	VAL
5	B	179	CYS
5	B	265	SER
5	B	275	TYR
5	B	355	ILE
5	B	375	ALA
5	B	378	LEU
5	B	410	GLY
5	B	436	VAL
5	B	457	LEU
5	B	466	TRP
5	B	471	LYS
5	B	478	GLY
5	B	555	ILE
5	B	595	ARG
5	B	602	THR
5	B	641	GLU
5	B	642	ASP
5	B	666	TYR
5	B	707	PRO
5	B	725	PRO
5	B	735	ALA
5	B	869	SER
5	B	870	ILE
5	B	880	THR
5	B	992	ILE
5	B	1028	GLU
5	B	1046	PRO
5	B	1114	LEU
5	B	1221	SER
6	C	5	GLY
6	C	18	VAL
6	C	60	ASP
6	C	136	ASP

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Mol	Chain	Res	Type
6	C	142	VAL
6	C	223	ALA
6	C	243	VAL
6	C	264	GLN
7	E	8	ASN
7	E	15	ALA
7	E	30	ILE
7	E	44	ALA
7	E	45	LYS
7	E	102	GLU
7	E	115	ASN
7	E	122	LYS
8	F	73	ALA
8	F	81	THR
8	F	112	GLU
8	F	120	ILE
9	H	20	TYR
9	H	32	THR
9	H	42	ILE
9	H	78	SER
9	H	83	GLN
9	H	108	SER
10	I	23	ASN
10	I	47	GLU
10	I	115	LYS
11	J	15	GLY
11	J	35	ALA
11	J	53	HIS
11	J	62	ARG
12	K	15	GLY
12	K	41	THR
12	K	43	GLY
12	K	81	TYR
13	L	50	ASP
4	A	123	ARG
4	A	140	THR
4	A	248	PRO
4	A	266	LEU
4	A	278	THR
4	A	306	ASN
4	A	361	LEU
4	A	364	VAL

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Mol	Chain	Res	Type
4	A	479	ASN
4	A	575	LYS
4	A	593	GLU
4	A	622	VAL
4	A	734	GLU
4	A	896	ARG
4	A	983	ILE
4	A	990	VAL
4	A	1036	ARG
4	A	1047	SER
4	A	1050	GLU
4	A	1101	LEU
4	A	1124	HIS
4	A	1257	ASP
4	A	1261	LYS
4	A	1350	LYS
4	A	1353	TYR
5	B	37	PHE
5	B	52	ASN
5	B	58	THR
5	B	171	PRO
5	B	398	ARG
5	B	431	TYR
5	B	594	ALA
5	B	601	ARG
5	B	695	ALA
5	B	753	ALA
5	B	770	GLN
5	B	818	PRO
5	B	881	ASN
5	B	942	ARG
5	B	961	LEU
5	B	1017	ILE
5	B	1140	ALA
5	B	1155	SER
5	B	1200	ALA
5	B	1223	ASP
6	C	6	PRO
6	C	48	SER
6	C	110	THR
6	C	212	PRO
6	C	214	ASN

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Mol	Chain	Res	Type
7	E	16	PHE
7	E	34	GLU
7	E	51	GLY
7	E	164	LEU
7	E	174	GLN
8	F	94	LEU
8	F	131	PRO
9	H	48	PRO
9	H	132	LEU
10	I	3	THR
10	I	8	ARG
10	I	34	TYR
10	I	86	PHE
11	J	8	PHE
11	J	32	GLU
12	K	8	GLU
12	K	71	PHE
12	K	99	GLY
13	L	39	SER
13	L	45	ALA
13	L	46	VAL
4	A	5	GLN
4	A	25	GLU
4	A	32	VAL
4	A	71	GLN
4	A	91	PHE
4	A	118	HIS
4	A	162	VAL
4	A	284	ALA
4	A	289	ILE
4	A	315	LEU
4	A	382	PRO
4	A	475	THR
4	A	701	LEU
4	A	702	LEU
4	A	788	SER
4	A	880	LYS
4	A	910	PRO
4	A	915	SER
4	A	926	GLN
4	A	938	LYS
4	A	1016	THR

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Mol	Chain	Res	Type
4	A	1392	SER
5	B	231	PRO
5	B	298	LEU
5	B	351	TYR
5	B	364	ILE
5	B	665	GLU
5	B	793	ALA
5	B	828	ALA
5	B	1144	ALA
5	B	1173	ALA
6	C	174	ALA
6	C	197	SER
6	C	213	PRO
6	C	227	THR
7	E	57	MET
7	E	99	HIS
7	E	109	ILE
7	E	118	PRO
7	E	124	VAL
7	E	189	GLY
7	E	205	SER
8	F	121	ALA
8	F	141	GLY
9	H	44	VAL
9	H	119	GLY
10	I	22	ASN
10	I	62	ILE
10	I	97	MET
11	J	36	LEU
4	A	61	ILE
4	A	285	PRO
4	A	424	ILE
4	A	497	THR
4	A	570	PRO
4	A	834	THR
4	A	916	GLY
4	A	963	ILE
4	A	1108	ALA
4	A	1135	ARG
4	A	1280	GLU
4	A	1389	PHE
5	B	60	GLN

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Mol	Chain	Res	Type
5	B	278	GLN
5	B	397	ASP
5	B	411	PRO
5	B	448	ILE
5	B	468	GLU
5	B	724	ASP
5	B	761	HIS
5	B	864	LYS
5	B	1030	LEU
5	B	1108	ARG
6	C	4	GLU
6	C	64	ALA
6	C	132	PRO
6	C	184	ASN
6	C	244	VAL
8	F	95	GLY
9	H	140	ALA
10	I	43	VAL
11	J	11	GLY
12	K	83	PRO
4	A	323	LYS
4	A	435	HIS
4	A	658	LEU
4	A	688	LYS
4	A	690	VAL
4	A	1049	ILE
4	A	1144	LYS
4	A	1169	ILE
4	A	1356	ILE
5	B	102	VAL
5	B	201	GLY
5	B	292	ILE
5	B	467	GLY
5	B	480	SER
5	B	667	GLN
5	B	1034	VAL
5	B	1037	LEU
6	C	172	PRO
7	E	86	PRO
7	E	154	ILE
10	I	15	TYR
13	L	56	LEU

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Mol	Chain	Res	Type
4	A	111	GLY
4	A	850	VAL
4	A	919	ILE
4	A	1045	VAL
4	A	1431	GLY
5	B	1054	GLY
5	B	1172	ILE
10	I	53	GLY
5	B	285	ILE
5	B	324	ILE
5	B	731	VAL
5	B	1184	GLY
9	H	23	VAL
11	J	13	VAL
4	A	1074	GLU
4	A	1097	GLY
4	A	1099	PRO
5	B	114	PRO
5	B	744	HIS
7	E	132	ILE
10	I	84	VAL
4	A	128	ILE
4	A	396	PRO
5	B	1042	GLY
7	E	117	THR
9	H	120	GLY
4	A	1294	PRO
5	B	1103	ILE

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
4	A	1218/1520 (80%)	713 (58%)	505 (42%)	0 0
5	B	960/1061 (90%)	585 (61%)	375 (39%)	0 1
6	C	234/274 (85%)	142 (61%)	92 (39%)	0 1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
7	E	196/197 (100%)	112 (57%)	84 (43%)	0 0
8	F	74/137 (54%)	42 (57%)	32 (43%)	0 0
9	H	117/128 (91%)	71 (61%)	46 (39%)	0 1
10	I	113/116 (97%)	68 (60%)	45 (40%)	0 1
11	J	60/65 (92%)	36 (60%)	24 (40%)	0 1
12	K	99/102 (97%)	58 (59%)	41 (41%)	0 0
13	L	40/57 (70%)	25 (62%)	15 (38%)	0 1
All	All	3111/3657 (85%)	1852 (60%)	1259 (40%)	0 1

All (1259) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	A	6	TYR
4	A	7	SER
4	A	13	THR
4	A	18	GLN
4	A	22	PHE
4	A	24	PRO
4	A	25	GLU
4	A	28	ARG
4	A	31	SER
4	A	32	VAL
4	A	34	LYS
4	A	37	PHE
4	A	41	MET
4	A	45	GLN
4	A	47	ARG
4	A	49	LYS
4	A	50	ILE
4	A	54	ASN
4	A	55	ASP
4	A	57	ARG
4	A	60	SER
4	A	62	ASP
4	A	63	ARG
4	A	64	ASN
4	A	65	LEU
4	A	66	LYS
4	A	67	CYS
4	A	68	GLN

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Mol	Chain	Res	Type
4	A	69	THR
4	A	71	GLN
4	A	80	HIS
4	A	83	HIS
4	A	84	ILE
4	A	89	PRO
4	A	93	VAL
4	A	95	PHE
4	A	96	ILE
4	A	98	LYS
4	A	99	ILE
4	A	100	LYS
4	A	102	VAL
4	A	106	VAL
4	A	107	CYS
4	A	108	MET
4	A	113	LEU
4	A	114	LEU
4	A	115	LEU
4	A	116	ASP
4	A	117	GLU
4	A	121	LEU
4	A	123	ARG
4	A	126	LEU
4	A	128	ILE
4	A	129	LYS
4	A	130	ASP
4	A	131	SER
4	A	132	LYS
4	A	133	LYS
4	A	134	ARG
4	A	135	PHE
4	A	140	THR
4	A	142	CYS
4	A	143	LYS
4	A	147	VAL
4	A	150	THR
4	A	151	ASP
4	A	154	SER
4	A	161	LEU
4	A	162	VAL
4	A	163	SER

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Mol	Chain	Res	Type
4	A	164	ARG
4	A	167	CYS
4	A	169	ASN
4	A	170	THR
4	A	171	GLN
4	A	179	LEU
4	A	180	LYS
4	A	182	VAL
4	A	184	SER
4	A	185	TRP
4	A	186	LYS
4	A	207	ILE
4	A	208	LEU
4	A	212	LYS
4	A	215	SER
4	A	216	VAL
4	A	217	LYS
4	A	219	PHE
4	A	221	SER
4	A	222	LEU
4	A	225	ASN
4	A	227	VAL
4	A	229	SER
4	A	234	MET
4	A	235	ILE
4	A	236	LEU
4	A	237	THR
4	A	239	LEU
4	A	240	PRO
4	A	247	ARG
4	A	249	SER
4	A	250	ILE
4	A	251	SER
4	A	252	PHE
4	A	253	ASN
4	A	254	GLU
4	A	255	SER
4	A	256	GLN
4	A	257	ARG
4	A	263	THR
4	A	265	LYS
4	A	266	LEU

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Mol	Chain	Res	Type
4	A	271	LYS
4	A	276	LEU
4	A	277	GLU
4	A	285	PRO
4	A	287	HIS
4	A	289	ILE
4	A	290	GLU
4	A	291	GLU
4	A	295	LEU
4	A	296	LEU
4	A	297	GLN
4	A	298	PHE
4	A	302	THR
4	A	303	TYR
4	A	304	MET
4	A	306	ASN
4	A	308	ILE
4	A	315	LEU
4	A	316	GLN
4	A	318	SER
4	A	321	PRO
4	A	323	LYS
4	A	324	SER
4	A	329	LEU
4	A	330	LYS
4	A	335	ARG
4	A	337	ARG
4	A	340	LEU
4	A	341	MET
4	A	350	ARG
4	A	351	THR
4	A	356	ASP
4	A	359	LEU
4	A	364	VAL
4	A	370	ILE
4	A	372	LYS
4	A	380	VAL
4	A	381	THR
4	A	387	ARG
4	A	388	LEU
4	A	391	LEU
4	A	397	ASN

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Mol	Chain	Res	Type
4	A	398	GLU
4	A	403	LYS
4	A	404	TYR
4	A	406	ILE
4	A	407	ARG
4	A	412	ARG
4	A	416	ARG
4	A	419	LYS
4	A	423	ASP
4	A	424	ILE
4	A	427	GLN
4	A	431	LYS
4	A	432	VAL
4	A	433	GLU
4	A	434	ARG
4	A	435	HIS
4	A	436	ILE
4	A	437	MET
4	A	443	LEU
4	A	445	ASN
4	A	446	ARG
4	A	449	SER
4	A	450	LEU
4	A	452	LYS
4	A	453	MET
4	A	456	MET
4	A	459	ARG
4	A	461	LYS
4	A	462	VAL
4	A	463	ILE
4	A	464	PRO
4	A	466	SER
4	A	475	THR
4	A	476	SER
4	A	491	VAL
4	A	492	PRO
4	A	493	GLN
4	A	494	SER
4	A	495	GLU
4	A	496	GLU
4	A	498	ARG
4	A	500	GLU

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Mol	Chain	Res	Type
4	A	501	LEU
4	A	502	SER
4	A	503	GLN
4	A	512	VAL
4	A	513	SER
4	A	514	PRO
4	A	515	GLN
4	A	516	SER
4	A	521	MET
4	A	523	ILE
4	A	524	VAL
4	A	525	GLN
4	A	528	LEU
4	A	531	ILE
4	A	533	LYS
4	A	535	THR
4	A	536	LEU
4	A	538	ASP
4	A	539	THR
4	A	550	LEU
4	A	552	TRP
4	A	561	PRO
4	A	567	LYS
4	A	569	LYS
4	A	570	PRO
4	A	571	LEU
4	A	572	TRP
4	A	573	SER
4	A	577	ILE
4	A	578	LEU
4	A	584	ASN
4	A	588	LEU
4	A	589	GLN
4	A	590	ARG
4	A	592	ASP
4	A	596	THR
4	A	597	LEU
4	A	601	LYS
4	A	605	MET
4	A	607	ILE
4	A	608	ILE
4	A	612	ILE

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Mol	Chain	Res	Type
4	A	618	GLU
4	A	619	LYS
4	A	620	LYS
4	A	625	SER
4	A	629	LEU
4	A	630	ILE
4	A	633	VAL
4	A	637	LYS
4	A	644	LYS
4	A	648	ASN
4	A	652	VAL
4	A	653	VAL
4	A	660	ASN
4	A	666	ILE
4	A	670	ILE
4	A	674	PRO
4	A	677	ARG
4	A	678	GLU
4	A	680	THR
4	A	682	THR
4	A	685	GLU
4	A	687	LYS
4	A	691	LEU
4	A	695	LYS
4	A	701	LEU
4	A	702	LEU
4	A	708	MET
4	A	710	LEU
4	A	711	ARG
4	A	713	SER
4	A	722	LEU
4	A	726	ARG
4	A	728	LYS
4	A	732	LEU
4	A	734	GLU
4	A	735	VAL
4	A	736	ASN
4	A	737	LEU
4	A	738	LYS
4	A	739	ASP
4	A	740	LEU
4	A	742	ASN

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Mol	Chain	Res	Type
4	A	746	MET
4	A	754	SER
4	A	756	ILE
4	A	764	CYS
4	A	765	VAL
4	A	768	GLN
4	A	773	LYS
4	A	780	VAL
4	A	784	LEU
4	A	788	SER
4	A	792	TYR
4	A	794	PRO
4	A	795	GLU
4	A	797	LYS
4	A	803	SER
4	A	805	LEU
4	A	806	ARG
4	A	818	MET
4	A	821	ARG
4	A	829	VAL
4	A	830	LYS
4	A	831	THR
4	A	839	ARG
4	A	840	ARG
4	A	841	LEU
4	A	853	ASP
4	A	854	ASN
4	A	855	THR
4	A	856	THR
4	A	857	ARG
4	A	858	ASN
4	A	859	SER
4	A	863	VAL
4	A	865	GLN
4	A	867	ILE
4	A	873	MET
4	A	879	GLU
4	A	880	LYS
4	A	884	ASP
4	A	885	THR
4	A	886	ILE
4	A	890	ASP

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Mol	Chain	Res	Type
4	A	893	PHE
4	A	895	LYS
4	A	896	ARG
4	A	897	TYR
4	A	898	ARG
4	A	899	VAL
4	A	902	LEU
4	A	904	THR
4	A	905	ASP
4	A	907	THR
4	A	908	LEU
4	A	913	LEU
4	A	915	SER
4	A	918	GLU
4	A	920	LEU
4	A	924	LYS
4	A	929	LEU
4	A	932	GLU
4	A	934	LYS
4	A	941	LYS
4	A	943	LEU
4	A	945	GLU
4	A	962	ARG
4	A	964	ILE
4	A	968	GLN
4	A	969	GLN
4	A	972	HIS
4	A	973	ILE
4	A	976	THR
4	A	977	LYS
4	A	978	PRO
4	A	980	ASP
4	A	981	LEU
4	A	988	LEU
4	A	990	VAL
4	A	991	LYS
4	A	993	LEU
4	A	994	GLN
4	A	995	GLU
4	A	996	ASN
4	A	997	LEU
4	A	999	VAL

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Mol	Chain	Res	Type
4	A	1000	LEU
4	A	1001	ARG
4	A	1003	LYS
4	A	1004	ASN
4	A	1006	ILE
4	A	1009	ASN
4	A	1022	LEU
4	A	1025	ARG
4	A	1028	THR
4	A	1029	ARG
4	A	1036	ARG
4	A	1043	ASP
4	A	1046	LEU
4	A	1052	GLN
4	A	1060	PRO
4	A	1064	VAL
4	A	1067	LEU
4	A	1071	SER
4	A	1077	THR
4	A	1079	MET
4	A	1092	LYS
4	A	1094	VAL
4	A	1095	THR
4	A	1098	VAL
4	A	1103	GLU
4	A	1107	VAL
4	A	1109	LYS
4	A	1112	LYS
4	A	1116	LEU
4	A	1120	LEU
4	A	1122	PRO
4	A	1128	GLN
4	A	1132	LYS
4	A	1133	LEU
4	A	1134	ILE
4	A	1135	ARG
4	A	1143	LEU
4	A	1145	SER
4	A	1146	VAL
4	A	1150	SER
4	A	1152	ILE
4	A	1153	TYR

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Mol	Chain	Res	Type
4	A	1156	PRO
4	A	1159	ARG
4	A	1162	VAL
4	A	1168	GLU
4	A	1171	GLN
4	A	1172	LEU
4	A	1173	HIS
4	A	1176	LEU
4	A	1187	GLN
4	A	1188	GLN
4	A	1189	SER
4	A	1190	PRO
4	A	1193	LEU
4	A	1195	LEU
4	A	1199	ARG
4	A	1203	ASN
4	A	1207	LEU
4	A	1208	THR
4	A	1215	ARG
4	A	1218	GLN
4	A	1221	LYS
4	A	1223	ASP
4	A	1228	TRP
4	A	1229	SER
4	A	1231	ASP
4	A	1234	GLU
4	A	1235	LYS
4	A	1239	ARG
4	A	1241	ARG
4	A	1243	VAL
4	A	1258	HIS
4	A	1259	MET
4	A	1261	LYS
4	A	1262	LYS
4	A	1264	GLU
4	A	1272	THR
4	A	1273	LEU
4	A	1274	ARG
4	A	1279	ILE
4	A	1280	GLU
4	A	1281	ARG
4	A	1282	VAL

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Mol	Chain	Res	Type
4	A	1285	MET
4	A	1288	ASP
4	A	1290	LYS
4	A	1295	THR
4	A	1299	VAL
4	A	1300	LYS
4	A	1301	GLU
4	A	1303	GLU
4	A	1311	VAL
4	A	1313	LEU
4	A	1314	SER
4	A	1315	GLU
4	A	1318	THR
4	A	1322	ILE
4	A	1323	ASP
4	A	1324	PRO
4	A	1325	THR
4	A	1326	ARG
4	A	1327	ILE
4	A	1328	TYR
4	A	1333	ILE
4	A	1336	MET
4	A	1337	GLU
4	A	1338	VAL
4	A	1345	ARG
4	A	1350	LYS
4	A	1355	VAL
4	A	1358	SER
4	A	1359	ASP
4	A	1362	TYR
4	A	1364	ASN
4	A	1366	ARG
4	A	1376	THR
4	A	1381	LEU
4	A	1382	THR
4	A	1383	SER
4	A	1384	VAL
4	A	1385	THR
4	A	1389	PHE
4	A	1391	ARG
4	A	1393	ASN
4	A	1398	MET

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Mol	Chain	Res	Type
4	A	1399	ARG
4	A	1406	VAL
4	A	1407	GLU
4	A	1411	GLU
4	A	1418	LEU
4	A	1420	ASP
4	A	1421	CYS
4	A	1422	ARG
4	A	1425	SER
4	A	1428	VAL
4	A	1433	MET
4	A	1435	PRO
4	A	1441	PHE
4	A	1442	ASP
4	A	1445	ILE
5	B	20	ASP
5	B	21	GLU
5	B	22	SER
5	B	24	PRO
5	B	28	GLU
5	B	30	SER
5	B	34	ILE
5	B	37	PHE
5	B	41	LYS
5	B	49	ASP
5	B	50	SER
5	B	53	GLN
5	B	61	ASP
5	B	62	ILE
5	B	63	ILE
5	B	65	GLU
5	B	66	ASP
5	B	67	SER
5	B	68	THR
5	B	69	LEU
5	B	91	SER
5	B	94	LYS
5	B	97	VAL
5	B	98	THR
5	B	101	MET
5	B	104	GLU
5	B	109	THR

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Mol	Chain	Res	Type
5	B	120	ARG
5	B	121	ASN
5	B	130	VAL
5	B	133	LYS
5	B	134	LYS
5	B	164	LYS
5	B	166	PHE
5	B	172	ILE
5	B	174	LEU
5	B	175	ARG
5	B	176	SER
5	B	177	LYS
5	B	182	SER
5	B	185	THR
5	B	187	SER
5	B	189	LEU
5	B	192	LEU
5	B	194	GLU
5	B	205	ILE
5	B	206	ASN
5	B	211	VAL
5	B	215	GLN
5	B	217	ARG
5	B	218	SER
5	B	222	ILE
5	B	223	VAL
5	B	225	VAL
5	B	227	LYS
5	B	228	LYS
5	B	231	PRO
5	B	233	PRO
5	B	234	ILE
5	B	241	ARG
5	B	245	GLU
5	B	246	LYS
5	B	249	ARG
5	B	251	ILE
5	B	253	THR
5	B	254	LEU
5	B	257	LYS
5	B	261	ARG
5	B	264	SER

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Mol	Chain	Res	Type
5	B	265	SER
5	B	267	ARG
5	B	268	THR
5	B	275	TYR
5	B	276	ILE
5	B	277	LYS
5	B	279	ASP
5	B	283	VAL
5	B	285	ILE
5	B	298	LEU
5	B	304	ASP
5	B	305	VAL
5	B	309	GLN
5	B	310	MET
5	B	312	GLU
5	B	316	PRO
5	B	319	GLU
5	B	322	PHE
5	B	324	ILE
5	B	327	ARG
5	B	329	THR
5	B	331	LEU
5	B	334	ILE
5	B	346	GLU
5	B	347	LYS
5	B	350	GLN
5	B	356	LEU
5	B	359	GLU
5	B	362	PRO
5	B	363	HIS
5	B	365	THR
5	B	367	LEU
5	B	372	SER
5	B	384	ARG
5	B	385	LEU
5	B	387	LEU
5	B	391	ASP
5	B	392	ARG
5	B	393	LYS
5	B	396	ASP
5	B	401	PHE
5	B	403	LYS

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Mol	Chain	Res	Type
5	B	404	LYS
5	B	408	LEU
5	B	411	PRO
5	B	413	LEU
5	B	415	GLN
5	B	416	LEU
5	B	418	LYS
5	B	419	THR
5	B	420	LEU
5	B	422	LYS
5	B	423	LYS
5	B	424	LEU
5	B	425	THR
5	B	426	LYS
5	B	428	ILE
5	B	430	ARG
5	B	431	TYR
5	B	432	MET
5	B	433	GLN
5	B	436	VAL
5	B	446	LEU
5	B	451	LYS
5	B	458	LYS
5	B	459	TYR
5	B	461	LEU
5	B	469	GLN
5	B	471	LYS
5	B	473	MET
5	B	475	SER
5	B	476	ARG
5	B	482	VAL
5	B	483	LEU
5	B	485	ARG
5	B	487	THR
5	B	498	THR
5	B	499	ASN
5	B	501	PRO
5	B	510	LYS
5	B	512	ARG
5	B	513	GLN
5	B	516	ASN
5	B	519	TRP

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Mol	Chain	Res	Type
5	B	521	LEU
5	B	527	THR
5	B	528	PRO
5	B	529	GLU
5	B	537	LYS
5	B	538	ASN
5	B	539	LEU
5	B	541	LEU
5	B	547	VAL
5	B	552	MET
5	B	554	ILE
5	B	556	THR
5	B	563	MET
5	B	567	GLU
5	B	570	VAL
5	B	572	HIS
5	B	573	GLN
5	B	574	SER
5	B	582	VAL
5	B	585	VAL
5	B	591	ARG
5	B	592	ASN
5	B	593	PRO
5	B	598	GLU
5	B	600	LEU
5	B	602	THR
5	B	604	ARG
5	B	606	LYS
5	B	613	VAL
5	B	615	MET
5	B	617	ARG
5	B	620	ARG
5	B	622	LYS
5	B	624	LEU
5	B	635	ARG
5	B	637	LEU
5	B	638	PHE
5	B	640	VAL
5	B	641	GLU
5	B	642	ASP
5	B	646	LEU
5	B	654	ARG

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Mol	Chain	Res	Type
5	B	655	LYS
5	B	658	ILE
5	B	662	MET
5	B	664	THR
5	B	667	GLN
5	B	679	TYR
5	B	680	THR
5	B	682	SER
5	B	685	LEU
5	B	686	ASN
5	B	690	VAL
5	B	696	GLU
5	B	701	ILE
5	B	705	MET
5	B	710	LEU
5	B	711	GLU
5	B	712	PRO
5	B	714	GLU
5	B	723	VAL
5	B	724	ASP
5	B	727	LYS
5	B	730	ARG
5	B	732	SER
5	B	734	HIS
5	B	736	THR
5	B	737	THR
5	B	740	HIS
5	B	741	CYS
5	B	742	GLU
5	B	746	SER
5	B	747	MET
5	B	748	ILE
5	B	751	VAL
5	B	755	ILE
5	B	756	ILE
5	B	760	ASP
5	B	762	ASN
5	B	764	SER
5	B	766	ARG
5	B	773	MET
5	B	788	ARG
5	B	790	ASP

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Mol	Chain	Res	Type
5	B	794	ASN
5	B	795	ILE
5	B	802	PRO
5	B	806	THR
5	B	807	ARG
5	B	809	MET
5	B	810	GLU
5	B	812	LEU
5	B	813	LYS
5	B	815	ARG
5	B	818	PRO
5	B	822	ASN
5	B	825	VAL
5	B	837	ASP
5	B	838	SER
5	B	844	SER
5	B	850	LEU
5	B	851	PHE
5	B	858	SER
5	B	860	MET
5	B	864	LYS
5	B	865	LYS
5	B	871	THR
5	B	878	GLN
5	B	882	THR
5	B	883	LEU
5	B	884	ARG
5	B	886	LYS
5	B	889	THR
5	B	893	LEU
5	B	894	ASP
5	B	899	ILE
5	B	901	PRO
5	B	903	VAL
5	B	904	ARG
5	B	914	LYS
5	B	916	THR
5	B	918	ILE
5	B	933	SER
5	B	934	LYS
5	B	941	LEU
5	B	944	THR

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Mol	Chain	Res	Type
5	B	949	VAL
5	B	953	LEU
5	B	954	VAL
5	B	956	THR
5	B	957	ASN
5	B	958	GLN
5	B	962	LYS
5	B	966	VAL
5	B	967	ARG
5	B	968	VAL
5	B	969	ARG
5	B	971	THR
5	B	975	GLN
5	B	976	ILE
5	B	982	SER
5	B	984	HIS
5	B	986	GLN
5	B	987	LYS
5	B	989	THR
5	B	990	ILE
5	B	993	THR
5	B	995	ARG
5	B	996	ARG
5	B	997	GLU
5	B	999	MET
5	B	1000	PRO
5	B	1007	VAL
5	B	1018	PRO
5	B	1020	ARG
5	B	1021	MET
5	B	1027	ILE
5	B	1030	LEU
5	B	1031	LEU
5	B	1033	LYS
5	B	1034	VAL
5	B	1041	GLU
5	B	1046	PRO
5	B	1048	THR
5	B	1049	ASP
5	B	1052	VAL
5	B	1057	LYS
5	B	1059	LEU

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Mol	Chain	Res	Type
5	B	1061	GLU
5	B	1064	TYR
5	B	1065	GLN
5	B	1067	ARG
5	B	1074	ASN
5	B	1077	THR
5	B	1079	LYS
5	B	1082	MET
5	B	1084	GLN
5	B	1096	ARG
5	B	1098	MET
5	B	1103	ILE
5	B	1106	ARG
5	B	1108	ARG
5	B	1113	VAL
5	B	1116	ARG
5	B	1119	VAL
5	B	1120	GLU
5	B	1123	SER
5	B	1124	ARG
5	B	1132	GLU
5	B	1141	HIS
5	B	1145	SER
5	B	1147	LEU
5	B	1151	LEU
5	B	1152	MET
5	B	1153	GLU
5	B	1155	SER
5	B	1162	ILE
5	B	1165	ILE
5	B	1171	VAL
5	B	1172	ILE
5	B	1174	LYS
5	B	1175	LEU
5	B	1178	ASN
5	B	1181	GLU
5	B	1183	LYS
5	B	1185	CYS
5	B	1188	LYS
5	B	1189	ILE
5	B	1194	ILE
5	B	1195	HIS

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Mol	Chain	Res	Type
5	B	1196	ILE
5	B	1201	LYS
5	B	1202	LEU
5	B	1203	LEU
5	B	1206	GLU
5	B	1208	MET
5	B	1210	MET
5	B	1218	THR
5	B	1219	ASP
5	B	1220	ARG
5	B	1221	SER
5	B	1222	ARG
6	C	6	PRO
6	C	7	GLN
6	C	9	LYS
6	C	11	ARG
6	C	14	SER
6	C	19	ASP
6	C	22	LEU
6	C	23	SER
6	C	25	VAL
6	C	26	ASP
6	C	27	LEU
6	C	29	MET
6	C	33	LEU
6	C	34	ARG
6	C	36	VAL
6	C	41	ILE
6	C	43	THR
6	C	46	ILE
6	C	50	GLU
6	C	52	GLU
6	C	53	THR
6	C	54	ASN
6	C	55	THR
6	C	56	THR
6	C	57	VAL
6	C	58	LEU
6	C	66	ARG
6	C	67	LEU
6	C	69	LEU
6	C	74	SER

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Mol	Chain	Res	Type
6	C	77	ILE
6	C	86	CYS
6	C	89	GLU
6	C	96	SER
6	C	99	LEU
6	C	106	GLU
6	C	110	THR
6	C	111	THR
6	C	114	TYR
6	C	117	ASP
6	C	118	LEU
6	C	119	VAL
6	C	121	VAL
6	C	122	SER
6	C	123	ASN
6	C	124	LEU
6	C	125	MET
6	C	137	LYS
6	C	138	GLU
6	C	140	ASN
6	C	142	VAL
6	C	143	LEU
6	C	145	CYS
6	C	149	LYS
6	C	151	GLN
6	C	153	LEU
6	C	154	LYS
6	C	156	THR
6	C	163	ILE
6	C	166	GLU
6	C	178	PHE
6	C	183	TRP
6	C	189	THR
6	C	192	TRP
6	C	193	TYR
6	C	194	GLU
6	C	196	ASP
6	C	197	SER
6	C	199	LYS
6	C	205	LYS
6	C	207	CYS
6	C	208	GLU

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Mol	Chain	Res	Type
6	C	209	TYR
6	C	211	ASP
6	C	212	PRO
6	C	215	GLU
6	C	221	TYR
6	C	222	LYS
6	C	229	TYR
6	C	232	VAL
6	C	233	GLU
6	C	234	SER
6	C	240	VAL
6	C	244	VAL
6	C	246	ARG
6	C	250	THR
6	C	254	LYS
6	C	258	ILE
6	C	260	LEU
6	C	264	GLN
6	C	267	GLN
6	C	268	ASP
7	E	2	ASP
7	E	4	GLU
7	E	6	GLU
7	E	8	ASN
7	E	9	ILE
7	E	10	SER
7	E	18	THR
7	E	20	LYS
7	E	21	GLU
7	E	24	LYS
7	E	31	THR
7	E	35	VAL
7	E	36	GLU
7	E	37	LEU
7	E	40	GLU
7	E	43	LYS
7	E	45	LYS
7	E	49	SER
7	E	50	MET
7	E	52	ARG
7	E	54	GLN
7	E	58	MET

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Mol	Chain	Res	Type
7	E	59	SER
7	E	60	PHE
7	E	61	GLN
7	E	64	PRO
7	E	65	THR
7	E	72	PHE
7	E	73	PRO
7	E	77	SER
7	E	78	LEU
7	E	79	TRP
7	E	82	PHE
7	E	86	PRO
7	E	92	THR
7	E	94	LYS
7	E	98	ILE
7	E	100	ILE
7	E	101	GLN
7	E	102	GLU
7	E	103	LYS
7	E	107	THR
7	E	109	ILE
7	E	117	THR
7	E	122	LYS
7	E	123	LEU
7	E	124	VAL
7	E	127	ILE
7	E	131	THR
7	E	132	ILE
7	E	133	GLU
7	E	134	THR
7	E	136	ASN
7	E	144	ILE
7	E	145	THR
7	E	146	HIS
7	E	151	PRO
7	E	152	LYS
7	E	155	ARG
7	E	156	LEU
7	E	162	ARG
7	E	167	ARG
7	E	169	ARG
7	E	171	LYS

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Mol	Chain	Res	Type
7	E	172	GLU
7	E	175	LEU
7	E	176	PRO
7	E	179	GLN
7	E	182	ASP
7	E	187	TYR
7	E	188	LEU
7	E	190	LEU
7	E	191	LYS
7	E	192	ARG
7	E	196	VAL
7	E	201	LYS
7	E	202	SER
7	E	204	THR
7	E	207	ARG
7	E	211	TYR
7	E	212	ARG
7	E	213	ILE
7	E	214	CYS
7	E	215	MET
8	F	76	LYS
8	F	79	ARG
8	F	82	THR
8	F	83	PRO
8	F	85	MET
8	F	87	LYS
8	F	90	ARG
8	F	92	ARG
8	F	97	ARG
8	F	99	LEU
8	F	100	GLN
8	F	102	SER
8	F	104	ASN
8	F	107	VAL
8	F	108	PHE
8	F	110	ASP
8	F	111	LEU
8	F	115	THR
8	F	117	PRO
8	F	119	ARG
8	F	120	ILE
8	F	123	LYS

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Mol	Chain	Res	Type
8	F	125	LEU
8	F	128	LYS
8	F	130	ILE
8	F	131	PRO
8	F	133	VAL
8	F	143	PHE
8	F	148	VAL
8	F	151	LEU
8	F	153	VAL
8	F	155	LEU
9	H	4	THR
9	H	8	ASP
9	H	9	ILE
9	H	12	VAL
9	H	13	SER
9	H	14	GLU
9	H	15	VAL
9	H	17	PRO
9	H	19	ARG
9	H	21	ASN
9	H	25	ARG
9	H	27	GLU
9	H	31	THR
9	H	36	CYS
9	H	37	LYS
9	H	39	THR
9	H	40	LEU
9	H	42	ILE
9	H	48	PRO
9	H	49	VAL
9	H	52	GLN
9	H	61	SER
9	H	63	LEU
9	H	76	THR
9	H	77	ARG
9	H	82	PRO
9	H	88	SER
9	H	89	LEU
9	H	94	ASP
9	H	95	TYR
9	H	100	THR
9	H	103	LYS

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Mol	Chain	Res	Type
9	H	105	GLU
9	H	110	ASP
9	H	112	ILE
9	H	117	SER
9	H	125	LEU
9	H	126	GLU
9	H	131	ASN
9	H	132	LEU
9	H	135	LEU
9	H	136	LYS
9	H	141	TYR
9	H	142	LEU
9	H	143	LEU
9	H	145	ARG
10	I	2	THR
10	I	3	THR
10	I	8	ARG
10	I	9	ASP
10	I	10	CYS
10	I	11	ASN
10	I	13	MET
10	I	14	LEU
10	I	16	PRO
10	I	17	ARG
10	I	18	GLU
10	I	19	ASP
10	I	24	ARG
10	I	26	LEU
10	I	28	GLU
10	I	30	ARG
10	I	31	THR
10	I	33	SER
10	I	34	TYR
10	I	37	GLU
10	I	42	LEU
10	I	46	HIS
10	I	48	LEU
10	I	49	ILE
10	I	55	THR
10	I	60	GLN
10	I	62	ILE
10	I	66	PRO

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Mol	Chain	Res	Type
10	I	75	CYS
10	I	78	CYS
10	I	79	HIS
10	I	82	GLU
10	I	83	ASN
10	I	84	VAL
10	I	91	ARG
10	I	92	ARG
10	I	93	LYS
10	I	101	PHE
10	I	104	LEU
10	I	105	SER
10	I	111	THR
10	I	116	ASN
10	I	118	ARG
10	I	119	THR
10	I	120	GLN
11	J	1	MET
11	J	2	ILE
11	J	7	CYS
11	J	9	SER
11	J	10	CYS
11	J	13	VAL
11	J	14	VAL
11	J	17	LYS
11	J	19	GLU
11	J	27	GLU
11	J	28	ASP
11	J	31	ASP
11	J	32	GLU
11	J	36	LEU
11	J	38	ARG
11	J	39	LEU
11	J	43	ARG
11	J	48	ARG
11	J	49	MET
11	J	51	LEU
11	J	54	VAL
11	J	55	ASP
11	J	60	PHE
11	J	62	ARG
12	K	1	MET

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Mol	Chain	Res	Type
12	K	8	GLU
12	K	9	LEU
12	K	12	LEU
12	K	16	GLU
12	K	17	SER
12	K	18	LYS
12	K	20	LYS
12	K	21	ILE
12	K	22	ASP
12	K	23	PRO
12	K	25	THR
12	K	31	VAL
12	K	32	VAL
12	K	34	THR
12	K	37	LYS
12	K	38	GLU
12	K	41	THR
12	K	42	LEU
12	K	46	ILE
12	K	47	ARG
12	K	50	LEU
12	K	51	LEU
12	K	53	ASP
12	K	54	ARG
12	K	55	LYS
12	K	56	VAL
12	K	61	TYR
12	K	63	VAL
12	K	64	GLU
12	K	70	ARG
12	K	71	PHE
12	K	75	ILE
12	K	78	THR
12	K	101	LEU
12	K	102	LYS
12	K	107	THR
12	K	108	GLU
12	K	111	LEU
12	K	113	THR
12	K	114	LEU
13	L	26	THR
13	L	28	LYS

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Mol	Chain	Res	Type
13	L	31	CYS
13	L	33	GLU
13	L	38	LEU
13	L	40	LEU
13	L	41	SER
13	L	51	CYS
13	L	54	ARG
13	L	55	ILE
13	L	60	ARG
13	L	63	ARG
13	L	64	LEU
13	L	65	VAL
13	L	68	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (114) such sidechains are listed below:

Mol	Chain	Res	Type
4	A	4	GLN
4	A	5	GLN
4	A	18	GLN
4	A	64	ASN
4	A	68	GLN
4	A	71	GLN
4	A	80	HIS
4	A	83	HIS
4	A	92	HIS
4	A	118	HIS
4	A	119	ASN
4	A	169	ASN
4	A	171	GLN
4	A	253	ASN
4	A	297	GLN
4	A	299	HIS
4	A	306	ASN
4	A	313	GLN
4	A	339	ASN
4	A	358	ASN
4	A	435	HIS
4	A	439	ASN
4	A	445	ASN
4	A	451	HIS
4	A	458	HIS

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Mol	Chain	Res	Type
4	A	493	GLN
4	A	587	HIS
4	A	631	HIS
4	A	659	HIS
4	A	660	ASN
4	A	736	ASN
4	A	741	ASN
4	A	742	ASN
4	A	745	GLN
4	A	757	ASN
4	A	786	HIS
4	A	838	GLN
4	A	858	ASN
4	A	906	HIS
4	A	926	GLN
4	A	965	GLN
4	A	968	GLN
4	A	996	ASN
4	A	1009	ASN
4	A	1070	GLN
4	A	1078	GLN
4	A	1130	GLN
4	A	1203	ASN
4	A	1278	ASN
4	A	1312	ASN
4	A	1364	ASN
4	A	1390	ASN
4	A	1432	GLN
5	B	46	GLN
5	B	53	GLN
5	B	110	HIS
5	B	115	GLN
5	B	121	ASN
5	B	206	ASN
5	B	215	GLN
5	B	255	GLN
5	B	300	HIS
5	B	325	GLN
5	B	383	ASN
5	B	515	HIS
5	B	516	ASN
5	B	518	HIS

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Mol	Chain	Res	Type
5	B	572	HIS
5	B	686	ASN
5	B	734	HIS
5	B	744	HIS
5	B	786	ASN
5	B	794	ASN
5	B	822	ASN
5	B	843	GLN
5	B	957	ASN
5	B	975	GLN
5	B	1015	HIS
5	B	1065	GLN
5	B	1117	GLN
5	B	1141	HIS
5	B	1178	ASN
5	B	1193	GLN
6	C	31	ASN
6	C	79	GLN
6	C	112	ASN
6	C	123	ASN
6	C	131	HIS
6	C	140	ASN
6	C	167	HIS
6	C	206	ASN
6	C	242	GLN
7	E	5	ASN
7	E	63	ASN
7	E	99	HIS
7	E	174	GLN
9	H	3	ASN
9	H	11	GLN
9	H	35	GLN
9	H	83	GLN
9	H	137	GLN
10	I	12	ASN
10	I	22	ASN
10	I	51	ASN
10	I	60	GLN
10	I	83	ASN
10	I	87	GLN
10	I	89	GLN
10	I	114	GLN

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Mol	Chain	Res	Type
10	I	116	ASN
10	I	120	GLN
12	K	40	HIS
12	K	65	HIS
13	L	53	HIS

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	R	10/10 (100%)	4 (40%)	3 (30%)

All (4) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	R	2	U
1	R	5	A
1	R	6	G
1	R	10	A

All (3) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	R	1	A
1	R	4	G
1	R	5	A

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 11 ligands modelled in this entry, 10 are monoatomic - leaving 1 for Mogul analysis.

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	$\#\|Z\| > 2$
16	ATP	B	1308	-	32,33,33	2.04	9 (28%)	48,52,52	2.77	14 (29%)

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
16	ATP	B	1308	-	-	6/22/38/38	0/3/3/3

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	B	1308	ATP	O5'-C5'	-5.98	1.22	1.44
16	B	1308	ATP	PA-O5'	-4.92	1.40	1.59
16	B	1308	ATP	C1'-N9	3.08	1.54	1.46
16	B	1308	ATP	C5'-C4'	-2.89	1.42	1.51
16	B	1308	ATP	C2-N1	2.81	1.38	1.33
16	B	1308	ATP	C2-N3	2.74	1.38	1.33
16	B	1308	ATP	C2'-C1'	2.56	1.61	1.53
16	B	1308	ATP	O4'-C1'	2.40	1.47	1.42
16	B	1308	ATP	C8-N7	2.04	1.35	1.31

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	B	1308	ATP	O5'-C5'-C4'	10.87	146.02	108.99
16	B	1308	ATP	PA-O5'-C5'	5.78	154.49	121.35
16	B	1308	ATP	N3-C2-N1	-5.62	120.07	128.58
16	B	1308	ATP	C5'-C4'-C3'	-5.52	95.35	115.21
16	B	1308	ATP	C5-C4-N3	-4.70	120.25	126.72
16	B	1308	ATP	O4'-C4'-C3'	4.03	113.16	105.15
16	B	1308	ATP	N9-C8-N7	-3.81	108.53	113.94
16	B	1308	ATP	C2-N3-C4	3.50	120.38	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	B	1308	ATP	C5-N7-C8	3.48	108.92	103.45
16	B	1308	ATP	N3-C4-N9	3.14	132.51	127.17
16	B	1308	ATP	O4'-C4'-C5'	-3.07	99.50	109.33
16	B	1308	ATP	C3'-C2'-C1'	2.55	106.29	101.46
16	B	1308	ATP	C4-N9-C1'	-2.41	120.99	126.63
16	B	1308	ATP	C4-C5-N7	-2.41	107.83	110.58

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
16	B	1308	ATP	C5'-O5'-PA-O1A
16	B	1308	ATP	C4'-C5'-O5'-PA
16	B	1308	ATP	PB-O3A-PA-O5'
16	B	1308	ATP	C5'-O5'-PA-O3A
16	B	1308	ATP	C3'-C4'-C5'-O5'
16	B	1308	ATP	PA-O3A-PB-O2B

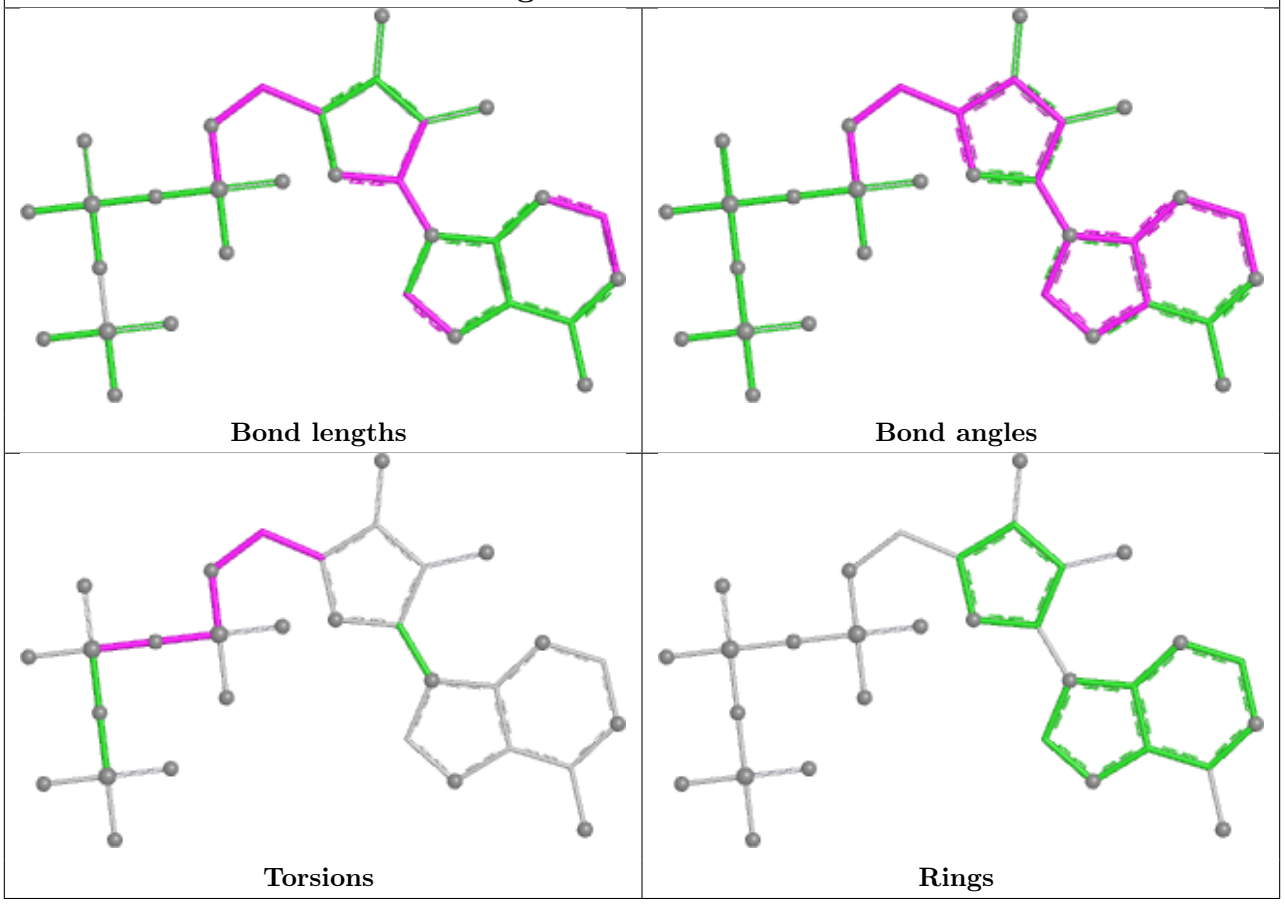
There are no ring outliers.

1 monomer is involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
16	B	1308	ATP	7	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

Ligand ATP B 1308



5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
2	T	2
4	A	2
3	N	1
1	R	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	T	15:DA	O3'	16:DC	P	2.98
1	N	2:DT	O3'	3:DG	P	2.67

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	320:ARG	C	321:PRO	N	1.75
1	A	820:GLY	C	821:ARG	N	1.68
1	T	21:DC	O3'	22:DT	P	1.39
1	R	5:A	O3'	6:G	P	1.33

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	R	10/10 (100%)	2.58	9 (90%) 0 0	70, 83, 159, 164	0
2	T	28/28 (100%)	2.53	19 (67%) 0 0	84, 188, 200, 200	0
3	N	14/14 (100%)	2.17	7 (50%) 0 1	185, 198, 200, 200	0
4	A	1395/1733 (80%)	-0.07	16 (1%) 78 54	1, 51, 137, 186	0
5	B	1106/1224 (90%)	-0.10	16 (1%) 73 48	1, 43, 119, 194	0
6	C	266/318 (83%)	-0.28	0 100 100	6, 44, 95, 151	0
7	E	214/215 (99%)	0.11	3 (1%) 73 48	13, 79, 141, 165	0
8	F	84/155 (54%)	-0.26	0 100 100	17, 58, 105, 114	0
9	H	133/146 (91%)	0.30	4 (3%) 52 30	19, 74, 132, 154	0
10	I	119/122 (97%)	0.03	1 (0%) 82 60	4, 56, 105, 146	0
11	J	65/70 (92%)	-0.30	0 100 100	11, 40, 92, 116	0
12	K	114/120 (95%)	-0.39	0 100 100	8, 43, 88, 131	0
13	L	46/70 (65%)	0.36	4 (8%) 16 10	17, 84, 143, 163	0
All	All	3594/4225 (85%)	-0.04	79 (2%) 62 37	1, 50, 133, 200	0

All (79) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
5	B	468	GLU	5.3
4	A	307	ASP	5.2
5	B	643	ASP	4.8
2	T	20	DC	4.4
5	B	709	ASP	4.4
4	A	323	LYS	4.1
2	T	25	DC	4.1
1	R	4	G	3.9
2	T	23	DC	3.8

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Mol	Chain	Res	Type	RSRZ
2	T	1	DC	3.8
2	T	21	DC	3.7
2	T	11	DG	3.7
10	I	94	ASP	3.6
2	T	10	DA	3.4
2	T	26	DG	3.4
3	N	1	DC	3.3
5	B	475	SER	3.3
3	N	2	DT	3.3
3	N	13	DA	3.2
13	L	25	ALA	3.1
9	H	139	ASN	3.1
2	T	14	DG	3.0
4	A	313	GLN	3.0
1	R	3	C	3.0
3	N	10	DG	2.9
4	A	171	GLN	2.9
2	T	2	DT	2.9
1	R	9	G	2.9
4	A	315	LEU	2.9
1	R	1	A	2.9
2	T	15	DA	2.9
4	A	1196	GLU	2.9
5	B	247	GLY	2.8
2	T	18	DA	2.8
5	B	335	GLY	2.8
4	A	590	ARG	2.7
3	N	14	DG	2.7
4	A	322	VAL	2.7
1	R	5	A	2.7
3	N	9	DC	2.6
7	E	95	THR	2.6
4	A	69	THR	2.6
2	T	19	DT	2.5
1	R	8	G	2.5
13	L	27	LEU	2.5
2	T	27	DA	2.5
9	H	134	ASN	2.5
1	R	6	G	2.5
9	H	86	ASP	2.4
1	R	2	U	2.4
9	H	90	ALA	2.4

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Mol	Chain	Res	Type	RSRZ
2	T	24	DT	2.3
5	B	708	GLU	2.3
4	A	154	SER	2.3
13	L	43	THR	2.3
2	T	4	DC	2.2
3	N	12	DT	2.2
5	B	870	ILE	2.2
7	E	180	ARG	2.2
4	A	1173	HIS	2.2
2	T	28	DT	2.2
4	A	320	ARG	2.2
5	B	372	SER	2.2
5	B	861	ASP	2.1
5	B	958	GLN	2.1
2	T	3	DA	2.1
1	R	10	A	2.1
5	B	730	ARG	2.1
4	A	65	LEU	2.1
5	B	446	LEU	2.1
5	B	328	GLU	2.1
7	E	83	CYS	2.1
4	A	176	LYS	2.1
4	A	252	PHE	2.1
13	L	37	LYS	2.0
5	B	1223	ASP	2.0
2	T	7	DA	2.0
4	A	1188	GLN	2.0
5	B	469	GLN	2.0

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

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

6.3 Carbohydrates (i)

There are no oligosaccharides in this entry.

6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum,

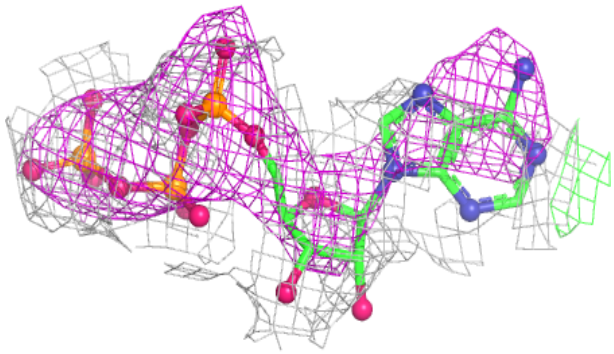
median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

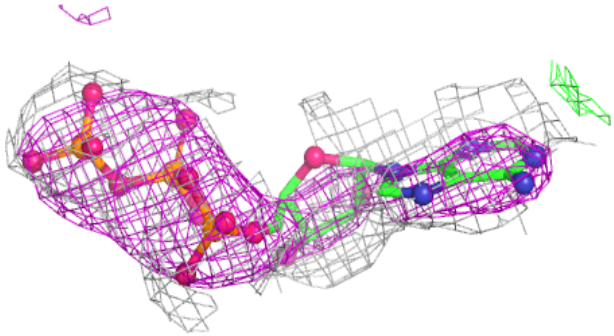
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
16	ATP	B	1308	31/31	0.53	0.17	64,71,77,78	0
15	MG	A	2002	1/1	0.54	0.74	63,63,63,63	0
15	MG	A	2001	1/1	0.55	0.46	55,55,55,55	0
14	ZN	A	1734	1/1	0.95	0.05	115,115,115,115	0
14	ZN	I	204	1/1	0.99	0.03	31,31,31,31	0
14	ZN	J	101	1/1	0.99	0.04	39,39,39,39	0
14	ZN	L	105	1/1	0.99	0.03	76,76,76,76	0
14	ZN	A	1735	1/1	0.99	0.04	75,75,75,75	0
14	ZN	B	1307	1/1	0.99	0.02	80,80,80,80	0
14	ZN	I	203	1/1	0.99	0.04	98,98,98,98	0
14	ZN	C	319	1/1	1.00	0.05	31,31,31,31	0

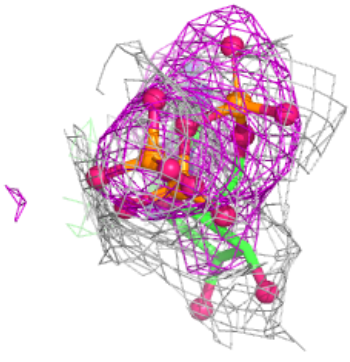
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around ATP B 1308:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)







6.5 Other polymers (i)

There are no such residues in this entry.