



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 06:08 AM UTC

PDB ID : 1XCQ / pdb_00001xcq
Title : Complex HCV core-Fab 19D9D6-Protein L mutant (D55A,L57H,Y64W) in space group P21
Authors : Menez, R.; Housden, N.G.; Harrison, S.; Jolivet-Reynaud, C.; Gore, M.G.; Stura, E.A.
Deposited on : 2004-09-03
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 ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
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

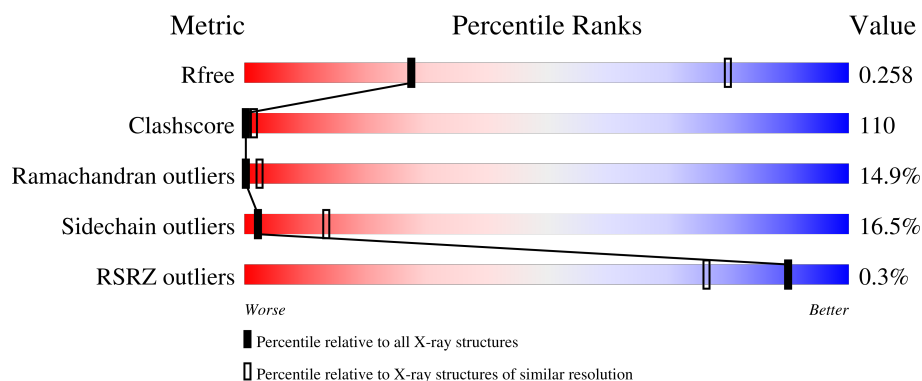
1 Overall quality at a glance

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)

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 $\leq 5\%$. 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	P	44	5% 5% 25% 20% 45%
1	Q	44	5% 25% 41% 30%
1	S	44	2% 7% 25% 32% 36%
2	A	220	• 10% 70% 16%
2	C	220	• 19% 56% 24%

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Mol	Chain	Length	Quality of chain
2	E	220	
2	G	220	
3	B	218	
3	D	218	
3	F	218	
3	H	218	
4	L	80	
4	M	80	
4	N	80	
4	O	80	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 16467 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Capsid protein C.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
1	P	24	Total	C	N	O	0	0	0
			167	106	33	28			
1	Q	44	Total	C	N	O	0	0	0
			346	213	75	58			
1	S	44	Total	C	N	O	0	0	0
			346	213	75	58			

- Molecule 2 is a protein called Monoclonal antibody 19D9D6 Light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	A	220	Total	C	N	O	S	0	0	0
			1708	1063	291	346	8			
2	C	220	Total	C	N	O	S	0	0	0
			1708	1063	291	346	8			
2	E	220	Total	C	N	O	S	0	0	0
			1708	1063	291	346	8			
2	G	219	Total	C	N	O	S	0	0	0
			1701	1060	290	344	7			

- Molecule 3 is a protein called Monoclonal antibody 19D9D6 Heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	B	218	Total	C	N	O	S	0	0	0
			1660	1058	270	325	7			
3	D	218	Total	C	N	O	S	0	0	0
			1660	1058	270	325	7			
3	F	218	Total	C	N	O	S	0	0	0
			1660	1058	270	325	7			
3	H	218	Total	C	N	O	S	0	0	0
			1660	1058	270	325	7			

- Molecule 4 is a protein called Protein L.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	L	66	Total	C	N	O	S	0	0	0
			507	322	85	99	1			
4	M	62	Total	C	N	O	S	0	0	0
			480	305	80	94	1			
4	N	64	Total	C	N	O	S	0	0	0
			490	311	82	96	1			
4	O	62	Total	C	N	O	S	0	0	0
			480	305	80	94	1			

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	P	1	Total	O	0	0
			1	1		
5	A	29	Total	O	0	0
			29	29		
5	B	31	Total	O	0	0
			31	31		
5	L	9	Total	O	0	0
			9	9		
5	C	13	Total	O	0	0
			13	13		
5	D	10	Total	O	0	0
			10	10		
5	Q	6	Total	O	0	0
			6	6		
5	M	3	Total	O	0	0
			3	3		
5	E	17	Total	O	0	0
			17	17		
5	F	34	Total	O	0	0
			34	34		
5	N	7	Total	O	0	0
			7	7		
5	S	3	Total	O	0	0
			3	3		
5	G	11	Total	O	0	0
			11	11		
5	H	9	Total	O	0	0
			9	9		
5	O	3	Total	O	0	0
			3	3		

3 Residue-property plots

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: Capsid protein C

Chain P: 5% 5% 25% 20% 45%



- Molecule 1: Capsid protein C

Chain Q: 5% 25% 41% 30%



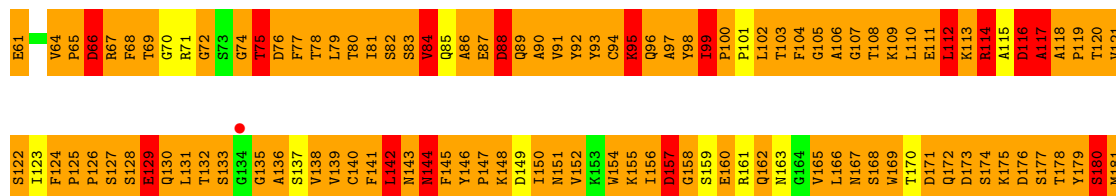
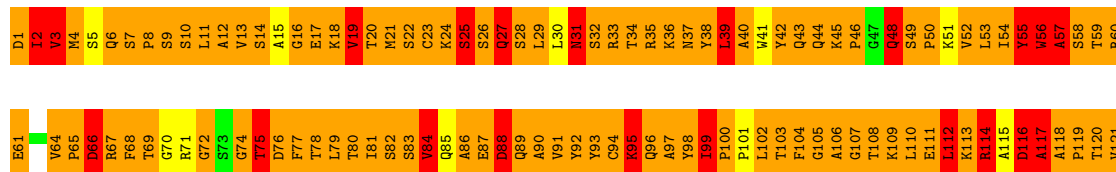
- Molecule 1: Capsid protein C

Chain S: 2% 7% 25% 32% 36%

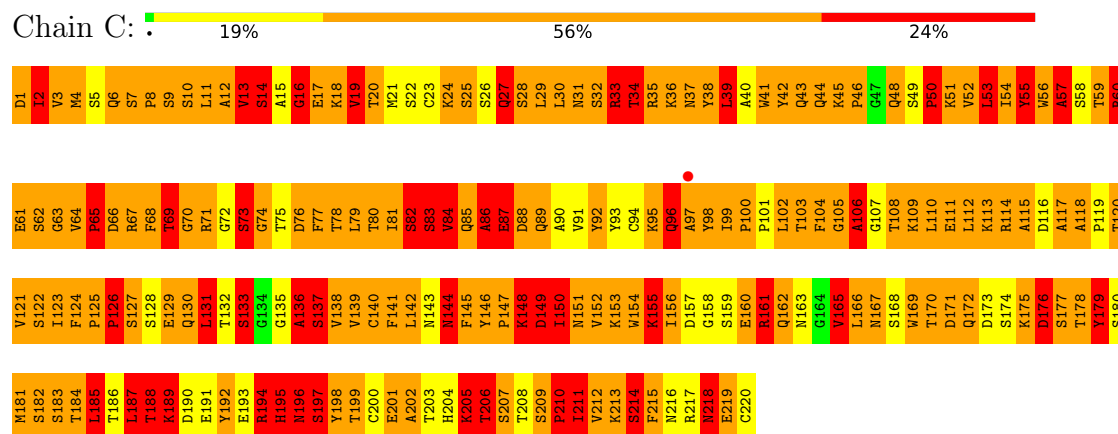


- Molecule 2: Monoclonal antibody 19D9D6 Light chain

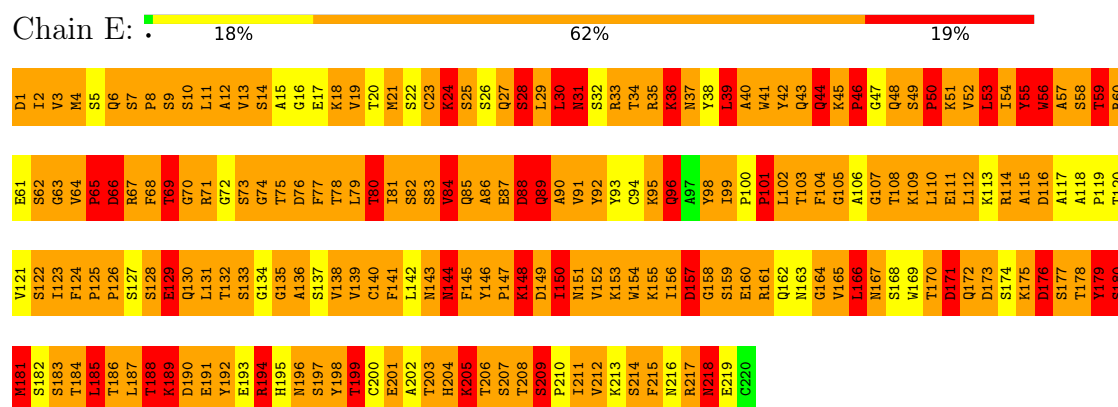
Chain A: 10% 70% 16%



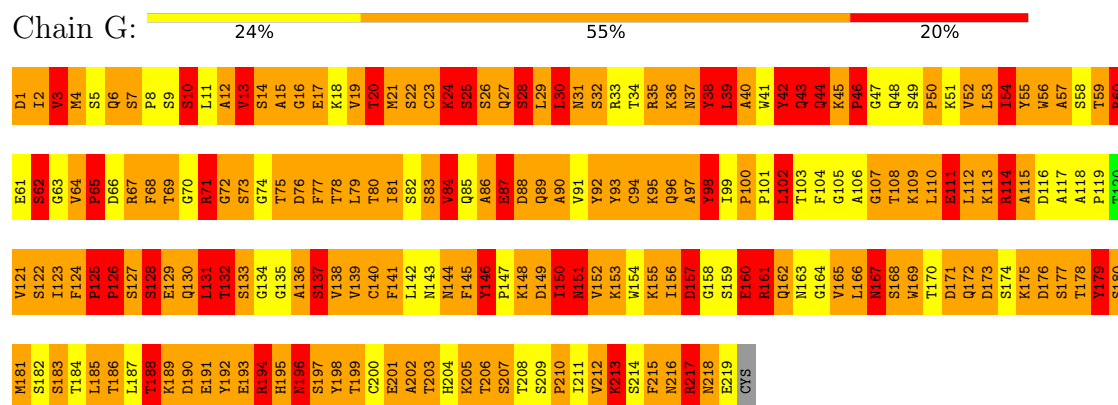
- Molecule 2: Monoclonal antibody 19D9D6 Light chain



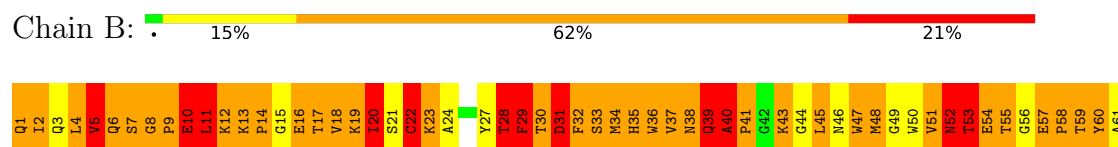
• Molecule 2: Monoclonal antibody 19D9D6 Light chain

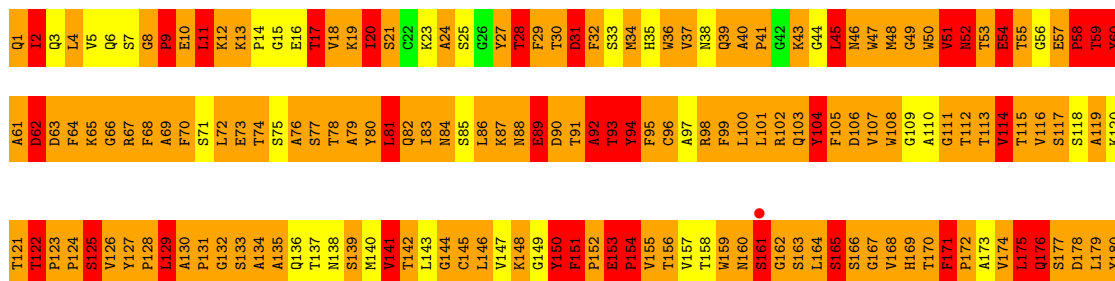


• Molecule 2: Monoclonal antibody 19D9D6 Light chain



• Molecule 3: Monoclonal antibody 19D9D6 Heavy chain

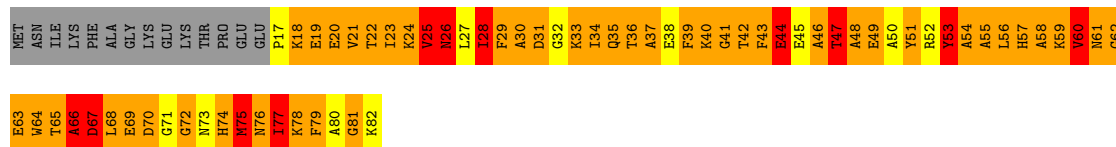






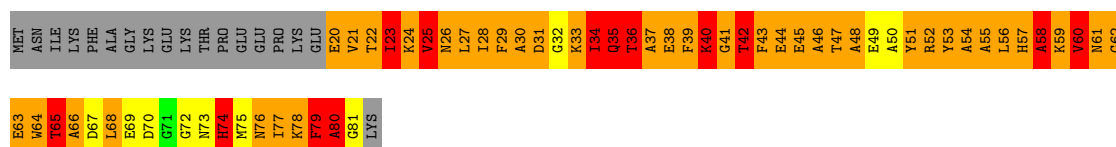
• Molecule 4: Protein L

Chain L: 14% 55% 14% 18%



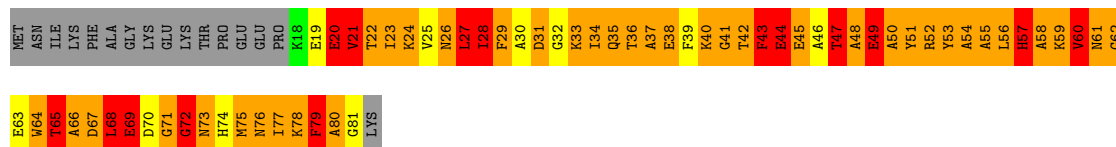
• Molecule 4: Protein L

Chain M: 12% 48% 16% 22%



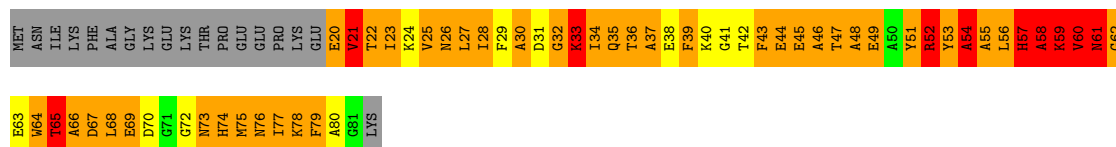
• Molecule 4: Protein L

Chain N: 12% 48% 19% 20%



• Molecule 4: Protein L

Chain O: 14% 48% 12% 22%



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	43.60Å 230.52Å 123.64Å 90.00° 91.67° 90.00°	Depositor
Resolution (Å)	21.62 – 3.50 21.62 – 3.50	Depositor EDS
% Data completeness (in resolution range)	99.4 (21.62-3.50) 99.0 (21.62-3.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.17	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.30 (at 3.53Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.192 , 0.264 0.196 , 0.258	Depositor DCC
R_{free} test set	1535 reflections (5.05%)	wwPDB-VP
Wilson B-factor (Å ²)	72.1	Xtriage
Anisotropy	0.156	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 204.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.42$, $\langle L^2 \rangle = 0.24$	Xtriage
Estimated twinning fraction	0.116 for h,-k,-l	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	16467	wwPDB-VP
Average B, all atoms (Å ²)	57.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.11% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	P	3.59	27/170 (15.9%)	2.25	8/229 (3.5%)
1	Q	4.54	79/353 (22.4%)	2.45	23/472 (4.9%)
1	S	3.84	65/353 (18.4%)	2.52	17/472 (3.6%)
2	A	4.93	477/1745 (27.3%)	2.58	135/2366 (5.7%)
2	C	4.54	393/1745 (22.5%)	2.53	124/2366 (5.2%)
2	E	4.88	475/1745 (27.2%)	2.70	139/2366 (5.9%)
2	G	4.45	407/1738 (23.4%)	2.53	125/2358 (5.3%)
3	B	4.93	452/1707 (26.5%)	2.63	141/2335 (6.0%)
3	D	4.78	428/1707 (25.1%)	2.55	144/2335 (6.2%)
3	F	4.85	477/1707 (27.9%)	2.58	138/2335 (5.9%)
3	H	4.69	413/1707 (24.2%)	2.64	134/2335 (5.7%)
4	L	4.88	147/517 (28.4%)	2.67	46/695 (6.6%)
4	M	4.75	130/489 (26.6%)	2.51	34/659 (5.2%)
4	N	4.84	149/499 (29.9%)	2.42	32/673 (4.8%)
4	O	4.83	118/489 (24.1%)	2.65	41/659 (6.2%)
All	All	4.74	4237/16671 (25.4%)	2.58	1281/22655 (5.7%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	C	0	1
2	E	0	3
2	G	0	2
3	D	0	1
3	F	0	1
3	H	0	1
4	L	0	1
All	All	0	10

All (4237) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	121	VAL	CA-CB	-27.29	1.21	1.54
2	A	192	TYR	CA-C	-25.61	1.27	1.52
3	H	9	PRO	CA-C	-24.04	1.26	1.52
2	A	106	ALA	CA-C	-23.69	1.21	1.52
1	Q	11	THR	CA-CB	23.64	1.75	1.54
2	G	5	SER	C-O	22.94	1.51	1.23
3	H	203	ALA	CA-CB	-21.73	1.18	1.53
3	F	156	THR	CA-CB	21.20	1.79	1.52
3	F	110	ALA	N-CA	-21.10	1.19	1.46
3	F	202	VAL	CA-CB	-20.74	1.29	1.54
4	O	73	ASN	CA-C	20.69	1.79	1.53
3	H	216	VAL	CA-CB	20.41	1.80	1.54
3	D	159	TRP	CA-C	-20.09	1.28	1.52
3	D	96	CYS	N-CA	-19.72	1.21	1.46
3	B	168	VAL	CA-CB	-19.66	1.29	1.54
2	E	25	SER	CA-C	-19.63	1.28	1.53
4	N	68	LEU	CA-C	19.56	1.78	1.52
2	A	125	PRO	C-O	-19.48	1.02	1.24
2	C	4	MET	CA-C	-19.45	1.29	1.52
3	H	168	VAL	CA-CB	-19.43	1.35	1.55
2	E	78	THR	CA-C	-18.90	1.29	1.52
3	F	177	SER	C-O	-18.81	1.00	1.24
2	A	89	GLN	CA-C	-18.67	1.31	1.53
3	H	116	VAL	CA-CB	-18.59	1.32	1.54
2	G	91	VAL	CA-CB	-18.37	1.30	1.53
3	B	92	ALA	CA-CB	-18.20	1.25	1.53
2	A	125	PRO	CA-C	-18.16	1.35	1.52
3	H	46	ASN	N-CA	-18.12	1.24	1.46
4	L	45	GLU	CA-C	-18.12	1.27	1.52
2	A	86	ALA	C-O	-18.05	1.02	1.24
2	A	191	GLU	N-CA	17.92	1.69	1.46
3	B	24	ALA	CA-C	-17.73	1.31	1.52
4	N	61	ASN	C-O	17.71	1.46	1.24
3	B	211	VAL	CA-CB	-17.69	1.32	1.54
3	H	171	PHE	C-O	-17.66	1.01	1.24
3	D	37	VAL	CA-CB	-17.60	1.31	1.54
2	G	35	ARG	NE-CZ	17.54	1.52	1.33
2	C	125	PRO	CA-C	-17.50	1.35	1.52
1	Q	31	VAL	CA-CB	17.38	1.78	1.54
3	F	16	GLU	C-O	-17.18	1.03	1.23
3	D	46	ASN	CA-C	-17.07	1.34	1.53
2	A	100	PRO	CA-C	-17.02	1.36	1.52
3	B	9	PRO	CA-C	-17.00	1.33	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	119	ALA	CA-CB	16.96	1.82	1.53
3	B	66	GLY	CA-C	-16.94	1.35	1.52
2	G	80	THR	CA-CB	-16.89	1.30	1.53
3	H	83	ILE	CA-C	16.77	1.68	1.53
3	F	183	SER	C-O	-16.69	1.04	1.23
2	A	135	GLY	C-O	16.62	1.46	1.23
2	C	43	GLN	CA-C	-16.61	1.32	1.52
2	E	118	ALA	CA-CB	-16.57	1.30	1.53
3	B	98	ARG	NE-CZ	-16.54	1.14	1.33
2	A	12	ALA	C-O	16.49	1.44	1.24
3	B	130	ALA	CA-CB	-16.48	1.32	1.53
2	E	84	VAL	CA-C	-16.48	1.31	1.52
2	G	52	VAL	CA-CB	-16.45	1.33	1.54
3	B	140	MET	SD-CE	16.44	2.20	1.79
3	B	9	PRO	CA-CB	-16.34	1.27	1.53
2	C	119	PRO	CA-C	-16.27	1.33	1.52
3	H	215	ILE	CA-CB	-16.25	1.33	1.54
2	G	119	PRO	CA-C	-16.24	1.36	1.52
3	H	131	PRO	CA-C	-16.23	1.29	1.52
2	A	95	LYS	C-O	-16.17	1.03	1.23
4	L	44	GLU	CA-C	16.13	1.74	1.52
3	D	196	GLU	C-O	-16.09	1.05	1.24
3	H	29	PHE	C-O	-16.08	1.03	1.24
2	E	36	LYS	C-O	-16.04	1.04	1.23
2	G	110	LEU	CA-C	-16.03	1.35	1.53
2	E	124	PHE	C-O	-16.03	1.07	1.24
3	D	140	MET	SD-CE	15.88	2.19	1.79
3	H	217	PRO	N-CA	-15.81	1.29	1.47
3	H	51	VAL	CA-C	15.81	1.72	1.52
2	E	119	PRO	C-O	-15.75	1.03	1.24
3	B	125	SER	CA-C	-15.73	1.33	1.52
3	F	114	VAL	CA-CB	15.73	1.72	1.54
3	D	169	HIS	C-N	-15.68	1.15	1.33
2	G	146	TYR	C-O	-15.64	1.05	1.24
2	G	6	GLN	C-O	-15.61	1.04	1.23
2	C	19	VAL	N-CA	-15.60	1.27	1.46
3	D	99	PHE	C-O	-15.60	1.05	1.24
3	D	170	THR	N-CA	-15.59	1.28	1.46
2	A	211	ILE	CA-CB	-15.58	1.35	1.54
3	B	12	LYS	CA-C	-15.56	1.33	1.52
2	E	25	SER	C-O	-15.55	1.05	1.23
2	E	123	ILE	CA-C	15.53	1.72	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	O	23	ILE	C-O	-15.53	0.98	1.23
2	A	188	THR	CA-C	-15.52	1.33	1.52
1	Q	22	VAL	CA-CB	15.52	1.75	1.54
3	F	184	SER	CA-C	-15.50	1.31	1.53
3	H	197	THR	CA-CB	-15.49	1.27	1.53
2	A	172	GLN	CA-C	-15.49	1.33	1.52
3	D	143	LEU	C-O	-15.40	1.04	1.23
2	E	99	ILE	CA-C	-15.38	1.36	1.52
2	G	152	VAL	CA-CB	-15.32	1.28	1.55
2	E	37	ASN	C-O	-15.31	1.05	1.24
4	L	28	ILE	CA-C	-15.30	1.35	1.52
3	B	110	ALA	N-CA	-15.24	1.25	1.46
2	E	96	GLN	C-O	-15.23	1.06	1.24
3	F	6	GLN	CA-C	15.21	1.72	1.52
4	L	64	TRP	CA-C	-15.19	1.34	1.52
3	D	159	TRP	C-O	-15.16	1.05	1.24
4	M	79	PHE	CA-C	15.12	1.73	1.52
2	E	211	ILE	CA-CB	-15.10	1.36	1.53
4	L	25	VAL	CA-CB	-15.10	1.32	1.55
3	D	19	LYS	CA-C	-15.10	1.34	1.52
2	E	168	SER	CA-C	-15.07	1.32	1.52
3	D	125	SER	C-O	-15.07	1.04	1.23
2	E	59	THR	C-O	-15.07	1.04	1.23
2	E	81	ILE	C-O	15.03	1.39	1.24
3	F	51	VAL	N-CA	-15.02	1.28	1.46
2	A	56	TRP	C-O	-15.02	1.05	1.24
3	D	197	THR	CA-CB	14.94	1.78	1.53
3	B	126	VAL	CA-C	-14.91	1.35	1.52
3	D	204	HIS	CA-C	14.88	1.70	1.52
4	O	58	ALA	CA-CB	14.87	1.78	1.53
3	H	208	SER	CA-C	-14.84	1.32	1.52
2	C	155	LYS	CA-C	-14.80	1.35	1.52
1	Q	40	ARG	NE-CZ	14.80	1.49	1.33
3	F	171	PHE	CA-C	-14.73	1.38	1.53
3	F	88	ASN	CA-C	14.71	1.72	1.52
3	H	55	THR	CA-CB	14.70	1.76	1.53
3	B	160	ASN	CA-C	-14.69	1.34	1.53
2	C	15	ALA	CA-C	-14.68	1.34	1.53
4	O	57	HIS	CA-C	-14.66	1.33	1.52
3	D	67	ARG	CA-C	14.64	1.72	1.52
3	H	89	GLU	N-CA	-14.64	1.27	1.46
2	G	199	THR	CA-CB	-14.64	1.28	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	198	VAL	CA-CB	-14.62	1.34	1.54
3	H	126	VAL	N-CA	14.62	1.62	1.46
2	C	89	GLN	C-O	-14.60	1.05	1.24
3	F	167	GLY	C-O	14.58	1.44	1.24
4	L	28	ILE	C-O	-14.55	1.06	1.24
2	E	149	ASP	CA-C	14.53	1.71	1.52
3	H	28	THR	CA-CB	14.52	1.73	1.53
4	N	54	ALA	CA-C	14.51	1.70	1.52
2	A	118	ALA	CA-CB	14.46	1.76	1.53
3	H	214	LYS	CA-C	-14.43	1.34	1.53
3	F	156	THR	N-CA	-14.43	1.28	1.46
3	B	31	ASP	C-O	14.42	1.38	1.24
3	F	99	PHE	C-O	-14.41	1.07	1.23
2	A	111	GLU	C-O	-14.39	1.07	1.23
2	C	150	ILE	CA-C	14.38	1.68	1.52
2	G	21	MET	CA-C	-14.35	1.35	1.52
2	A	176	ASP	C-O	-14.33	1.05	1.24
2	A	188	THR	C-O	-14.32	1.06	1.23
2	C	19	VAL	C-O	-14.26	1.08	1.24
1	Q	40	ARG	CA-C	14.24	1.71	1.52
3	B	121	THR	CA-C	-14.21	1.34	1.52
2	G	117	ALA	C-O	-14.21	1.04	1.23
3	D	188	VAL	CA-C	-14.20	1.38	1.52
3	B	91	THR	N-CA	14.19	1.64	1.46
2	E	12	ALA	CA-CB	14.18	1.77	1.53
2	E	43	GLN	CA-C	14.18	1.70	1.52
3	F	7	SER	N-CA	-14.17	1.27	1.46
3	D	166	SER	C-O	-14.17	1.06	1.23
4	M	61	ASN	C-O	-14.13	1.09	1.24
2	C	146	TYR	CA-C	-14.13	1.35	1.52
2	C	92	TYR	N-CA	14.12	1.63	1.46
2	G	192	TYR	CA-C	-14.12	1.33	1.52
3	D	123	PRO	CA-C	-14.11	1.39	1.52
2	E	31	ASN	C-O	-14.09	1.07	1.24
3	F	118	SER	CA-C	-14.09	1.34	1.52
2	E	143	ASN	CA-C	14.08	1.72	1.53
2	C	207	SER	CA-C	-14.06	1.33	1.52
2	C	192	TYR	CA-C	14.05	1.70	1.52
2	A	88	ASP	CA-C	14.04	1.71	1.52
2	G	146	TYR	CA-C	-14.03	1.36	1.52
4	L	65	THR	CA-CB	14.02	1.71	1.53
2	C	165	VAL	CA-CB	13.99	1.73	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	33	ARG	CA-CB	13.99	1.77	1.53
3	D	5	VAL	CA-C	-13.97	1.35	1.52
2	C	81	ILE	CA-C	-13.96	1.37	1.52
4	O	68	LEU	CA-C	-13.93	1.36	1.52
2	C	55	TYR	CA-C	13.92	1.70	1.52
4	M	50	ALA	CA-CB	-13.91	1.31	1.53
2	E	150	ILE	CA-CB	13.90	1.73	1.54
2	E	179	TYR	CA-CB	13.88	1.73	1.53
2	A	77	PHE	CA-CB	-13.86	1.31	1.53
2	C	35	ARG	CD-NE	13.86	1.65	1.46
4	O	34	ILE	CA-CB	13.86	1.73	1.54
2	A	120	THR	CB-CG2	-13.86	1.06	1.52
1	S	17	ARG	NE-CZ	13.83	1.48	1.33
2	G	153	LYS	CA-C	-13.83	1.35	1.52
2	C	93	TYR	CG-CD1	-13.82	1.10	1.39
4	M	46	ALA	CA-C	13.76	1.71	1.52
3	F	78	THR	C-O	-13.76	1.06	1.23
3	D	161	SER	CA-C	-13.73	1.34	1.52
2	C	153	LYS	CA-C	-13.72	1.35	1.52
4	M	38	GLU	C-O	-13.69	1.06	1.23
3	D	157	VAL	CA-CB	-13.68	1.37	1.54
3	D	97	ALA	CA-C	13.68	1.69	1.52
4	N	34	ILE	CA-CB	-13.65	1.34	1.54
2	A	135	GLY	CA-C	13.65	1.71	1.51
2	E	20	THR	CA-C	13.64	1.69	1.52
2	A	24	LYS	C-O	-13.63	1.08	1.24
3	B	202	VAL	N-CA	-13.63	1.30	1.46
4	L	33	LYS	CA-C	13.59	1.70	1.52
2	E	37	ASN	CA-C	-13.59	1.35	1.52
3	F	87	LYS	C-O	-13.59	1.08	1.24
3	B	144	GLY	C-O	-13.58	1.10	1.23
3	B	159	TRP	N-CA	13.57	1.62	1.46
3	D	130	ALA	C-O	13.52	1.40	1.24
3	H	41	PRO	CA-CB	-13.52	1.34	1.53
3	F	199	THR	CA-CB	-13.52	1.31	1.53
4	L	48	ALA	C-O	13.50	1.40	1.24
2	G	184	THR	CA-CB	-13.50	1.31	1.53
2	E	136	ALA	CA-C	-13.50	1.35	1.52
2	A	40	ALA	N-CA	-13.48	1.29	1.46
2	A	181	MET	N-CA	13.46	1.62	1.45
2	E	51	LYS	CA-C	-13.46	1.35	1.52
3	D	127	TYR	CA-C	-13.43	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	71	ARG	NE-CZ	13.40	1.47	1.33
2	C	20	THR	CA-C	-13.40	1.36	1.52
3	F	209	THR	CA-C	-13.40	1.34	1.52
3	D	202	VAL	CA-CB	-13.38	1.37	1.54
3	H	131	PRO	CA-CB	-13.38	1.34	1.53
3	H	18	VAL	CA-CB	-13.38	1.36	1.54
3	H	99	PHE	CA-CB	13.37	1.76	1.53
4	O	51	TYR	C-O	-13.36	1.08	1.24
2	E	145	PHE	CG-CD1	-13.33	1.10	1.38
3	D	188	VAL	C-O	-13.33	1.07	1.24
4	M	45	GLU	CA-C	-13.32	1.34	1.52
3	D	128	PRO	CA-C	-13.31	1.40	1.52
4	L	55	ALA	CA-CB	13.30	1.75	1.53
2	A	124	PHE	N-CA	-13.28	1.30	1.45
2	E	5	SER	CA-C	-13.27	1.36	1.52
3	D	115	THR	CA-C	-13.26	1.35	1.52
2	A	169	TRP	CA-C	-13.25	1.35	1.52
3	D	38	ASN	CA-C	-13.25	1.34	1.53
4	N	34	ILE	C-O	13.24	1.37	1.24
2	E	144	ASN	CA-C	-13.24	1.35	1.52
3	F	48	MET	CA-C	13.23	1.70	1.52
3	B	78	THR	CA-C	-13.21	1.35	1.52
4	L	23	ILE	CA-CB	-13.20	1.36	1.53
4	O	27	LEU	C-O	13.20	1.39	1.24
2	C	189	LYS	CA-CB	13.18	1.75	1.53
3	F	109	GLY	CA-C	13.18	1.62	1.52
3	H	155	VAL	CA-CB	-13.14	1.35	1.54
3	F	21	SER	CA-C	-13.13	1.36	1.52
2	A	87	GLU	CA-C	-13.12	1.34	1.52
3	F	94	TYR	CA-CB	-13.12	1.35	1.53
3	F	209	THR	N-CA	-13.11	1.29	1.45
1	S	31	VAL	CB-CG1	13.06	1.95	1.52
2	A	110	LEU	N-CA	-13.05	1.28	1.46
2	G	45	LYS	CA-C	-13.05	1.39	1.53
2	A	115	ALA	CA-C	-13.04	1.35	1.52
2	E	12	ALA	CA-C	-13.04	1.35	1.52
3	B	157	VAL	CA-CB	13.04	1.70	1.54
2	C	81	ILE	CA-CB	13.03	1.68	1.53
3	F	26	GLY	C-O	-13.03	1.06	1.23
3	F	159	TRP	CA-C	13.01	1.66	1.52
2	C	138	VAL	N-CA	-13.00	1.31	1.46
3	D	36	TRP	CA-C	12.98	1.68	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	H	208	SER	N-CA	-12.97	1.29	1.46
4	O	48	ALA	CA-CB	-12.97	1.32	1.53
3	H	187	THR	CA-CB	-12.93	1.31	1.53
2	A	75	THR	N-CA	12.91	1.62	1.46
2	C	39	LEU	N-CA	12.90	1.62	1.45
2	E	8	PRO	CA-C	-12.86	1.27	1.52
3	H	195	SER	C-O	12.86	1.40	1.24
2	A	52	VAL	CA-CB	-12.84	1.38	1.54
3	B	51	VAL	CA-C	-12.81	1.35	1.52
3	H	52	ASN	CA-C	12.79	1.70	1.52
2	E	204	HIS	CB-CG	-12.79	1.32	1.50
1	Q	11	THR	CA-C	12.78	1.65	1.53
2	G	36	LYS	CE-NZ	12.78	1.87	1.49
3	H	114	VAL	CA-CB	-12.78	1.37	1.54
4	N	80	ALA	C-O	-12.76	1.08	1.23
2	E	77	PHE	C-O	12.74	1.39	1.23
2	A	60	ARG	C-O	-12.73	1.08	1.24
2	E	71	ARG	CA-C	-12.72	1.35	1.52
2	C	137	SER	C-O	-12.72	1.08	1.23
2	E	212	VAL	CA-C	-12.71	1.36	1.52
3	B	64	PHE	N-CA	12.70	1.62	1.46
3	D	143	LEU	CA-C	-12.70	1.37	1.52
3	B	201	ASN	CA-C	12.67	1.68	1.52
4	O	35	GLN	CA-C	12.66	1.69	1.52
3	H	110	ALA	CA-C	12.66	1.70	1.52
3	B	145	CYS	CA-CB	-12.65	1.32	1.53
2	C	93	TYR	N-CA	-12.61	1.30	1.45
3	B	155	VAL	N-CA	12.59	1.60	1.46
4	O	64	TRP	CA-C	-12.59	1.35	1.53
2	A	86	ALA	CA-CB	12.58	1.73	1.53
4	L	43	PHE	CA-C	12.56	1.69	1.52
2	A	206	THR	C-O	12.55	1.40	1.24
2	E	21	MET	CA-CB	-12.55	1.33	1.53
2	C	148	LYS	CG-CD	12.55	1.90	1.52
3	D	90	ASP	CA-C	12.53	1.69	1.52
2	E	159	SER	CA-C	12.52	1.70	1.53
3	D	17	THR	CA-C	-12.51	1.37	1.52
3	D	185	SER	C-O	-12.51	1.07	1.23
3	H	89	GLU	CG-CD	12.50	1.83	1.52
3	D	39	GLN	C-O	12.49	1.38	1.23
3	B	55	THR	N-CA	-12.49	1.30	1.46
3	H	39	GLN	CD-OE1	12.48	1.47	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	91	VAL	N-CA	-12.48	1.31	1.46
2	A	187	LEU	C-O	-12.47	1.06	1.23
3	F	10	GLU	N-CA	-12.47	1.30	1.46
4	N	80	ALA	CA-C	-12.47	1.36	1.52
4	O	34	ILE	C-O	-12.47	1.09	1.24
2	E	28	SER	CB-OG	12.46	1.67	1.42
2	G	181	MET	N-CA	12.46	1.61	1.45
2	C	78	THR	N-CA	-12.45	1.30	1.46
2	G	112	LEU	C-O	12.44	1.38	1.23
4	M	58	ALA	C-O	-12.42	1.08	1.24
2	E	194	ARG	NE-CZ	12.42	1.46	1.33
3	D	188	VAL	CA-CB	12.41	1.70	1.54
3	D	84	ASN	C-O	-12.38	1.11	1.23
2	A	195	HIS	N-CA	-12.38	1.30	1.46
2	A	12	ALA	N-CA	-12.38	1.30	1.46
2	E	191	GLU	CA-C	-12.38	1.35	1.52
2	E	57	ALA	CA-CB	-12.36	1.32	1.53
3	B	69	ALA	CA-C	-12.35	1.37	1.52
2	A	171	ASP	C-N	-12.32	1.17	1.33
3	B	158	THR	CA-CB	-12.32	1.36	1.53
2	C	109	LYS	C-O	12.30	1.38	1.23
4	N	73	ASN	CB-CG	12.30	1.82	1.52
2	A	148	LYS	CA-C	12.29	1.69	1.52
3	F	212	ASP	N-CA	-12.28	1.31	1.46
3	B	41	PRO	CA-CB	-12.26	1.36	1.53
2	A	120	THR	C-O	12.26	1.38	1.23
3	B	181	THR	C-O	12.26	1.39	1.23
2	G	126	PRO	N-CA	-12.25	1.31	1.47
4	M	52	ARG	NE-CZ	12.23	1.46	1.33
3	B	30	THR	CA-C	-12.23	1.36	1.53
2	G	160	GLU	CA-C	-12.22	1.38	1.52
3	H	96	CYS	CA-C	-12.22	1.42	1.53
2	A	98	TYR	CA-C	-12.22	1.35	1.52
2	E	175	LYS	CA-C	-12.21	1.36	1.52
2	C	10	SER	CA-CB	12.21	1.74	1.53
3	B	108	TRP	CA-C	12.20	1.69	1.52
3	F	21	SER	C-O	-12.19	1.09	1.23
3	F	97	ALA	C-O	-12.19	1.09	1.23
3	D	211	VAL	CA-CB	-12.18	1.38	1.54
2	E	165	VAL	CA-C	12.16	1.65	1.53
2	G	43	GLN	CD-NE2	12.14	1.58	1.33
3	F	5	VAL	CA-CB	12.14	1.68	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	2	ILE	CA-CB	12.14	1.71	1.54
3	H	157	VAL	CA-C	-12.13	1.36	1.52
3	F	61	ALA	CA-CB	-12.12	1.35	1.53
2	E	4	MET	CA-C	-12.11	1.38	1.52
3	B	91	THR	CA-CB	12.10	1.68	1.53
3	D	145	CYS	CA-C	-12.09	1.38	1.52
3	B	50	TRP	C-O	12.07	1.37	1.23
3	B	180	TYR	C-O	-12.07	1.09	1.23
3	B	218	ARG	CA-C	12.06	1.78	1.52
3	B	161	SER	CA-CB	12.06	1.72	1.53
3	H	79	ALA	N-CA	12.06	1.60	1.46
2	C	73	SER	N-CA	12.04	1.61	1.46
3	F	179	LEU	CA-C	12.04	1.65	1.53
3	D	37	VAL	N-CA	-12.03	1.32	1.46
3	D	2	ILE	N-CA	12.03	1.61	1.46
3	B	31	ASP	CA-C	12.03	1.70	1.52
3	H	70	PHE	CA-C	12.03	1.67	1.52
1	Q	8	GLN	CA-C	12.02	1.68	1.52
4	M	65	THR	CB-CG2	12.01	1.92	1.52
2	G	35	ARG	CZ-NH2	12.00	1.49	1.33
4	N	60	VAL	CA-CB	12.00	1.70	1.54
2	G	139	VAL	C-O	-12.00	1.11	1.24
3	D	82	GLN	CA-C	-11.99	1.38	1.52
4	O	58	ALA	N-CA	11.98	1.61	1.46
4	N	36	THR	CA-CB	-11.98	1.33	1.53
2	C	213	LYS	N-CA	11.97	1.60	1.46
2	A	78	THR	CA-C	-11.96	1.38	1.52
3	D	99	PHE	CA-C	-11.96	1.38	1.52
2	C	129	GLU	CA-C	-11.96	1.35	1.52
2	C	32	SER	CA-C	11.95	1.68	1.52
2	C	98	TYR	CA-C	11.94	1.68	1.52
3	F	113	THR	C-N	-11.94	1.19	1.33
3	F	102	ARG	NE-CZ	11.94	1.46	1.33
3	F	16	GLU	N-CA	-11.93	1.31	1.45
3	B	159	TRP	CA-C	11.93	1.66	1.52
3	D	92	ALA	CA-C	-11.92	1.36	1.53
2	A	6	GLN	CA-C	-11.92	1.38	1.52
4	M	47	THR	C-O	-11.92	1.09	1.24
3	B	172	PRO	CA-CB	-11.90	1.36	1.53
3	D	97	ALA	C-O	11.90	1.38	1.23
3	F	102	ARG	CG-CD	11.90	1.88	1.52
3	F	168	VAL	CA-CB	-11.90	1.36	1.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	57	ALA	CA-CB	11.87	1.73	1.53
3	F	94	TYR	C-O	-11.87	1.09	1.24
2	G	110	LEU	C-N	-11.86	1.17	1.33
3	F	120	LYS	CG-CD	11.85	1.88	1.52
3	F	131	PRO	C-N	-11.84	1.19	1.33
3	F	112	THR	CA-C	-11.84	1.39	1.52
3	B	112	THR	CA-CB	-11.84	1.37	1.53
2	G	66	ASP	CA-C	-11.83	1.34	1.52
2	G	193	GLU	CD-OE1	11.82	1.47	1.25
2	E	66	ASP	C-O	-11.82	1.09	1.24
2	A	180	SER	C-O	11.82	1.38	1.23
2	E	19	VAL	CA-C	11.81	1.66	1.52
2	E	154	TRP	CA-C	-11.81	1.37	1.53
4	N	35	GLN	C-O	-11.79	1.09	1.24
3	B	90	ASP	C-O	11.79	1.39	1.24
4	L	34	ILE	N-CA	-11.78	1.32	1.46
2	E	110	LEU	C-N	11.78	1.50	1.33
2	E	161	ARG	CZ-NH1	11.78	1.49	1.32
3	B	121	THR	C-O	-11.78	1.09	1.23
2	E	215	PHE	C-O	-11.77	1.09	1.23
3	F	142	THR	N-CA	11.77	1.60	1.46
2	C	48	GLN	CD-OE1	11.75	1.45	1.23
3	H	14	PRO	C-O	11.75	1.40	1.23
3	D	79	ALA	C-O	-11.75	1.09	1.23
3	F	191	SER	N-CA	-11.73	1.31	1.46
4	L	49	GLU	CA-C	11.72	1.68	1.52
3	D	153	GLU	N-CA	-11.72	1.29	1.46
2	E	213	LYS	CA-C	-11.72	1.38	1.52
3	D	74	THR	CA-C	11.70	1.68	1.52
3	H	118	SER	N-CA	11.70	1.62	1.45
3	B	39	GLN	CA-C	-11.69	1.37	1.52
4	O	55	ALA	N-CA	-11.69	1.31	1.46
2	G	121	VAL	CA-CB	-11.69	1.40	1.54
3	F	149	GLY	CA-C	11.68	1.68	1.51
3	D	17	THR	C-O	-11.68	1.10	1.23
2	G	13	VAL	CA-CB	11.67	1.70	1.54
2	E	64	VAL	N-CA	-11.65	1.32	1.46
2	G	39	LEU	CA-C	-11.65	1.37	1.53
3	H	159	TRP	CA-C	-11.65	1.39	1.52
3	F	200	CYS	C-O	-11.63	1.10	1.24
3	F	204	HIS	C-O	-11.63	1.10	1.24
3	B	45	LEU	CA-CB	-11.63	1.33	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	102	LEU	N-CA	-11.62	1.31	1.46
2	E	20	THR	CB-OG1	-11.62	1.25	1.43
4	N	23	ILE	C-O	-11.61	1.10	1.24
3	B	149	GLY	C-O	-11.61	1.08	1.23
3	D	18	VAL	CA-C	11.60	1.67	1.52
3	H	44	GLY	CA-C	-11.58	1.43	1.52
2	E	71	ARG	NE-CZ	11.57	1.45	1.33
3	B	186	VAL	C-O	-11.56	1.10	1.24
4	N	73	ASN	CA-CB	11.56	1.72	1.53
4	O	45	GLU	N-CA	11.55	1.61	1.46
3	H	9	PRO	C-O	-11.55	1.08	1.23
4	N	21	VAL	CA-CB	11.54	1.70	1.54
2	C	180	SER	CA-C	-11.53	1.37	1.52
3	F	78	THR	CA-C	-11.49	1.38	1.52
3	H	71	SER	CA-C	11.49	1.66	1.52
4	N	67	ASP	CA-C	-11.49	1.37	1.52
4	O	52	ARG	CA-CB	11.48	1.71	1.53
3	B	4	LEU	C-O	-11.48	1.09	1.24
2	C	138	VAL	CA-CB	-11.48	1.39	1.54
4	M	55	ALA	C-O	-11.47	1.10	1.24
3	F	65	LYS	C-O	11.47	1.38	1.24
2	G	186	THR	CA-C	11.46	1.66	1.52
3	F	140	MET	SD-CE	11.45	2.08	1.79
1	S	36	LEU	CG-CD2	11.44	1.90	1.52
4	O	23	ILE	CA-C	-11.43	1.42	1.53
3	F	84	ASN	CA-CB	11.42	1.72	1.53
2	A	156	ILE	CA-C	-11.42	1.41	1.53
3	F	64	PHE	C-O	11.42	1.38	1.24
2	C	79	LEU	C-O	-11.41	1.10	1.24
2	C	80	THR	CA-C	11.40	1.65	1.52
2	G	73	SER	CA-C	-11.40	1.37	1.52
4	O	52	ARG	CA-C	-11.40	1.38	1.52
4	O	24	LYS	N-CA	-11.37	1.32	1.46
2	C	24	LYS	C-O	11.36	1.37	1.23
2	C	169	TRP	N-CA	-11.35	1.31	1.46
2	C	170	THR	CA-C	-11.35	1.38	1.52
2	E	215	PHE	CG-CD1	-11.34	1.15	1.38
2	G	80	THR	CA-C	11.34	1.66	1.52
4	L	52	ARG	CZ-NH2	11.33	1.48	1.33
3	D	120	LYS	N-CA	11.32	1.59	1.45
4	M	76	ASN	CA-CB	-11.32	1.38	1.53
2	G	170	THR	CA-C	-11.32	1.38	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	42	THR	CA-CB	11.32	1.70	1.53
3	B	73	GLU	C-O	11.32	1.36	1.23
3	H	37	VAL	CA-CB	-11.31	1.39	1.54
2	E	64	VAL	CA-CB	-11.28	1.39	1.54
2	G	175	LYS	N-CA	-11.28	1.32	1.46
2	G	132	THR	CA-CB	-11.27	1.34	1.53
3	D	111	GLY	C-O	-11.27	1.08	1.23
2	C	18	LYS	CA-CB	11.26	1.67	1.53
3	F	69	ALA	CA-C	-11.26	1.39	1.52
3	F	92	ALA	CA-CB	-11.26	1.38	1.53
3	H	45	LEU	CA-C	11.24	1.66	1.52
4	N	68	LEU	N-CA	11.24	1.60	1.46
3	B	183	SER	CA-C	-11.23	1.37	1.53
2	E	121	VAL	CA-C	11.22	1.67	1.52
2	C	66	ASP	CA-C	-11.21	1.37	1.52
3	D	27	TYR	CA-C	-11.21	1.38	1.52
4	M	60	VAL	CA-CB	11.21	1.69	1.54
2	A	39	LEU	CA-C	11.20	1.67	1.52
2	C	187	LEU	CA-C	-11.20	1.37	1.52
4	O	67	ASP	C-O	11.19	1.38	1.23
3	D	168	VAL	CA-C	-11.18	1.39	1.52
2	A	48	GLN	CA-C	11.17	1.67	1.52
3	F	142	THR	CA-CB	11.17	1.67	1.53
2	G	198	TYR	CA-C	11.17	1.65	1.52
2	E	199	THR	CA-C	-11.17	1.39	1.52
2	C	64	VAL	CA-C	-11.17	1.41	1.52
3	D	82	GLN	N-CA	11.16	1.59	1.45
3	H	63	ASP	C-O	11.15	1.38	1.24
2	A	130	GLN	CA-C	11.13	1.67	1.52
3	D	202	VAL	CB-CG1	-11.13	1.15	1.52
2	G	62	SER	C-O	-11.10	1.09	1.24
3	B	2	ILE	CA-C	-11.10	1.39	1.52
1	S	40	ARG	CZ-NH2	11.10	1.47	1.33
3	H	112	THR	CA-CB	-11.09	1.36	1.52
3	H	208	SER	CA-CB	-11.08	1.34	1.53
3	F	171	PHE	CA-CB	-11.08	1.37	1.53
3	B	52	ASN	CA-C	11.06	1.67	1.52
3	B	105	PHE	N-CA	-11.06	1.33	1.46
3	D	39	GLN	CD-OE1	-11.06	1.02	1.23
4	M	64	TRP	NE1-CE2	-11.06	1.25	1.37
3	H	170	THR	CA-C	11.06	1.67	1.52
4	M	20	GLU	N-CA	11.06	1.67	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	147	VAL	CA-CB	-11.05	1.40	1.53
3	D	31	ASP	CA-CB	11.05	1.68	1.53
2	A	108	THR	CA-CB	11.05	1.70	1.53
2	E	99	ILE	N-CA	11.05	1.60	1.46
1	Q	13	ARG	CZ-NH2	11.04	1.47	1.33
2	C	170	THR	C-O	-11.03	1.10	1.23
3	B	1	GLN	N-CA	11.02	1.67	1.46
3	F	30	THR	CA-C	-11.02	1.37	1.52
4	O	22	THR	C-N	11.01	1.44	1.33
3	D	152	PRO	CA-C	11.00	1.68	1.52
2	C	91	VAL	CA-C	-11.00	1.38	1.52
2	E	109	LYS	C-O	-11.00	1.10	1.23
3	D	127	TYR	CE1-CZ	-11.00	1.11	1.38
2	A	167	ASN	N-CA	-10.99	1.32	1.46
2	C	52	VAL	CA-C	-10.99	1.38	1.52
2	A	113	LYS	C-O	-10.99	1.08	1.23
3	H	13	LYS	CA-C	-10.98	1.41	1.53
2	C	113	LYS	CA-C	-10.98	1.39	1.52
2	C	51	LYS	N-CA	10.97	1.59	1.46
3	H	92	ALA	CA-C	10.96	1.67	1.52
4	M	80	ALA	CA-CB	-10.96	1.34	1.53
3	H	50	TRP	CA-CB	10.93	1.70	1.53
2	E	74	GLY	N-CA	10.92	1.61	1.45
2	A	152	VAL	N-CA	-10.92	1.34	1.46
2	E	188	THR	CA-CB	-10.91	1.34	1.53
4	L	18	LYS	CA-C	10.90	1.67	1.52
4	L	21	VAL	CA-CB	10.90	1.69	1.54
3	B	60	TYR	C-O	-10.90	1.10	1.23
2	E	68	PHE	CG-CD1	-10.90	1.16	1.38
2	A	76	ASP	CB-CG	10.90	1.79	1.52
3	H	192	THR	CA-C	10.89	1.71	1.52
1	Q	28	GLY	CA-C	10.88	1.67	1.51
3	D	190	SER	CA-C	10.87	1.68	1.52
2	E	206	THR	C-N	10.87	1.47	1.33
2	A	67	ARG	CZ-NH2	-10.87	1.19	1.33
3	H	65	LYS	CA-CB	10.85	1.72	1.54
2	E	169	TRP	C-O	-10.85	1.10	1.24
3	B	157	VAL	C-O	10.85	1.36	1.24
2	A	86	ALA	N-CA	10.84	1.59	1.46
2	C	175	LYS	C-O	-10.84	1.10	1.24
3	D	48	MET	SD-CE	-10.83	1.52	1.79
3	D	43	LYS	CA-C	-10.82	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	180	TYR	C-O	-10.82	1.10	1.23
2	C	195	HIS	CA-C	10.82	1.67	1.52
3	B	97	ALA	CA-CB	-10.81	1.34	1.53
4	O	44	GLU	CA-C	-10.81	1.41	1.53
2	A	199	THR	CA-C	-10.80	1.39	1.52
3	H	184	SER	CA-C	-10.80	1.39	1.52
3	F	49	GLY	C-O	-10.80	1.07	1.23
4	L	40	LYS	CA-C	10.79	1.65	1.52
3	F	88	ASN	CB-CG	-10.79	1.25	1.52
3	B	151	PHE	CG-CD2	-10.79	1.16	1.38
3	D	157	VAL	N-CA	-10.79	1.33	1.46
3	D	53	THR	CA-CB	-10.78	1.35	1.53
2	C	156	ILE	CA-CB	-10.77	1.41	1.54
2	C	126	PRO	C-O	10.77	1.38	1.24
1	S	22	VAL	CA-C	10.76	1.66	1.52
2	A	109	LYS	CA-CB	-10.76	1.38	1.53
3	H	151	PHE	CA-CB	-10.76	1.36	1.53
2	E	56	TRP	C-O	-10.75	1.10	1.24
3	B	195	SER	N-CA	10.75	1.60	1.46
2	G	27	GLN	CA-C	10.74	1.66	1.52
2	G	176	ASP	N-CA	10.74	1.60	1.46
3	D	142	THR	N-CA	-10.73	1.33	1.46
2	E	75	THR	C-O	-10.71	1.11	1.23
2	E	104	PHE	CA-C	-10.70	1.38	1.53
2	A	122	SER	N-CA	-10.65	1.33	1.46
3	F	33	SER	CA-CB	10.65	1.70	1.53
3	B	144	GLY	CA-C	10.64	1.64	1.52
3	B	188	VAL	C-O	-10.64	1.11	1.24
3	F	120	LYS	CA-CB	-10.64	1.36	1.53
2	E	125	PRO	C-O	-10.63	1.12	1.24
2	G	212	VAL	C-O	-10.63	1.13	1.24
3	B	20	ILE	N-CA	10.62	1.59	1.45
3	F	107	VAL	N-CA	-10.62	1.33	1.46
2	C	28	SER	N-CA	10.61	1.59	1.46
3	H	160	ASN	CA-C	10.60	1.63	1.53
2	E	74	GLY	CA-C	10.60	1.66	1.51
3	H	108	TRP	N-CA	-10.60	1.33	1.45
2	C	15	ALA	CA-CB	10.60	1.66	1.53
3	D	150	TYR	CA-C	10.60	1.65	1.52
4	O	28	ILE	CA-CB	-10.59	1.41	1.54
3	F	157	VAL	C-O	-10.59	1.09	1.23
2	E	111	GLU	CA-C	-10.58	1.38	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	14	SER	C-O	-10.58	1.10	1.23
2	C	202	ALA	CA-C	-10.58	1.39	1.52
3	B	193	TRP	CD2-CE3	-10.58	1.23	1.40
4	L	37	ALA	CA-CB	-10.57	1.33	1.54
2	E	218	ASN	CA-C	-10.56	1.38	1.52
2	E	7	SER	C-O	-10.56	1.10	1.24
2	E	133	SER	C-O	10.56	1.37	1.24
2	A	110	LEU	CA-C	-10.54	1.39	1.53
3	F	127	TYR	CA-CB	-10.54	1.40	1.53
2	G	129	GLU	N-CA	-10.54	1.34	1.46
3	F	113	THR	CA-C	10.54	1.65	1.53
3	F	100	LEU	CA-C	10.53	1.67	1.53
2	E	93	TYR	CE1-CZ	-10.53	1.12	1.38
3	H	125	SER	CA-C	-10.52	1.39	1.52
2	G	39	LEU	CA-CB	-10.52	1.37	1.53
4	O	23	ILE	CA-CB	-10.52	1.39	1.53
4	M	78	LYS	CA-C	-10.52	1.40	1.52
4	N	53	TYR	CE2-CZ	-10.52	1.13	1.38
2	G	6	GLN	CA-C	-10.51	1.39	1.52
2	C	178	THR	CA-CB	10.51	1.69	1.53
2	E	121	VAL	C-O	-10.51	1.11	1.24
4	O	24	LYS	C-O	10.51	1.36	1.24
2	E	98	TYR	CA-C	-10.50	1.39	1.52
3	B	87	LYS	C-O	10.50	1.37	1.23
4	M	34	ILE	CA-CB	-10.50	1.40	1.54
3	H	171	PHE	N-CA	-10.50	1.31	1.46
3	H	163	SER	CA-C	10.49	1.66	1.52
4	M	38	GLU	CA-C	-10.49	1.39	1.52
3	D	183	SER	N-CA	10.48	1.59	1.46
2	E	91	VAL	C-O	10.48	1.36	1.23
3	B	21	SER	CA-C	-10.48	1.38	1.52
4	M	33	LYS	C-O	-10.48	1.09	1.23
4	O	40	LYS	CA-C	-10.47	1.39	1.52
3	F	188	VAL	CA-C	-10.47	1.42	1.52
2	C	3	VAL	C-O	-10.45	1.13	1.24
2	E	216	ASN	N-CA	10.45	1.58	1.46
2	E	106	ALA	CA-CB	10.44	1.73	1.53
2	C	209	SER	CA-C	10.43	1.68	1.52
3	F	68	PHE	N-CA	-10.43	1.32	1.46
3	F	115	THR	N-CA	-10.42	1.33	1.45
3	B	6	GLN	CA-C	-10.41	1.39	1.52
3	D	102	ARG	CG-CD	10.41	1.83	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	151	PHE	CE1-CZ	-10.41	1.07	1.38
3	B	1	GLN	CA-CB	10.40	1.74	1.53
3	B	197	THR	CA-C	10.39	1.66	1.52
4	M	43	PHE	C-O	-10.39	1.10	1.24
2	A	85	GLN	C-O	-10.39	1.10	1.23
3	H	135	ALA	CA-C	-10.39	1.38	1.52
3	B	145	CYS	CA-C	10.38	1.66	1.52
3	D	50	TRP	CA-C	10.38	1.65	1.52
2	C	211	ILE	CA-CB	10.38	1.66	1.53
3	F	55	THR	CA-CB	-10.38	1.35	1.53
3	H	175	LEU	CA-CB	10.38	1.71	1.53
3	F	107	VAL	C-O	-10.37	1.11	1.23
2	A	1	ASP	CB-CG	10.37	1.77	1.52
2	E	62	SER	CA-C	-10.37	1.39	1.52
3	H	145	CYS	C-O	-10.36	1.10	1.23
3	F	209	THR	C-O	-10.36	1.11	1.23
2	C	150	ILE	C-O	10.35	1.37	1.23
2	A	190	ASP	CA-CB	10.35	1.71	1.53
3	B	134	ALA	CA-CB	10.35	1.71	1.53
2	E	129	GLU	N-CA	-10.35	1.32	1.46
4	M	56	LEU	CA-C	-10.35	1.39	1.52
3	H	196	GLU	N-CA	10.34	1.57	1.45
3	B	205	PRO	N-CA	-10.34	1.34	1.47
3	H	51	VAL	CA-CB	10.34	1.68	1.54
3	H	130	ALA	CA-CB	-10.34	1.38	1.53
3	D	132	GLY	C-O	10.32	1.40	1.23
3	D	217	PRO	CA-C	10.32	1.65	1.52
4	L	30	ALA	N-CA	-10.32	1.33	1.46
3	B	209	THR	C-O	10.31	1.35	1.23
2	G	183	SER	CA-C	10.30	1.67	1.53
2	A	86	ALA	CA-C	-10.30	1.38	1.52
4	L	38	GLU	CA-C	-10.30	1.40	1.52
3	F	203	ALA	C-O	-10.30	1.11	1.23
3	B	20	ILE	CA-CB	10.30	1.70	1.54
4	N	77	ILE	CA-CB	10.28	1.67	1.54
2	G	21	MET	CB-CG	10.28	1.83	1.52
4	N	54	ALA	C-O	10.26	1.35	1.24
2	C	61	GLU	N-CA	-10.26	1.32	1.45
3	F	98	ARG	CZ-NH2	10.26	1.46	1.33
2	G	177	SER	CB-OG	10.26	1.62	1.42
3	H	102	ARG	CA-C	-10.26	1.36	1.52
2	C	121	VAL	CA-CB	-10.26	1.40	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	H	115	THR	CA-CB	-10.25	1.43	1.53
3	D	44	GLY	N-CA	10.24	1.52	1.44
2	A	101	PRO	N-CA	-10.24	1.29	1.47
3	B	116	VAL	C-O	-10.24	1.12	1.24
3	D	50	TRP	CE2-CZ2	-10.23	1.18	1.39
3	B	81	LEU	N-CA	-10.23	1.33	1.46
3	H	205	PRO	CA-CB	-10.22	1.37	1.53
2	C	68	PHE	C-O	-10.22	1.11	1.23
4	M	25	VAL	CA-C	-10.22	1.39	1.52
2	A	46	PRO	CA-C	-10.22	1.40	1.52
2	A	166	LEU	CA-C	10.21	1.64	1.52
3	H	188	VAL	CA-CB	10.21	1.67	1.54
2	A	138	VAL	CA-CB	10.21	1.68	1.54
3	F	157	VAL	CA-C	-10.19	1.41	1.52
3	B	212	ASP	C-O	-10.19	1.12	1.23
3	F	95	PHE	N-CA	-10.19	1.33	1.45
3	F	157	VAL	CA-CB	-10.18	1.41	1.53
3	D	103	GLN	CG-CD	10.18	1.77	1.52
2	A	113	LYS	N-CA	-10.17	1.32	1.45
3	F	103	GLN	N-CA	10.17	1.59	1.46
2	E	179	TYR	CG-CD2	-10.17	1.18	1.39
2	A	11	LEU	CB-CG	-10.16	1.33	1.53
3	B	182	LEU	CA-C	-10.16	1.39	1.52
1	Q	8	GLN	C-O	10.15	1.36	1.24
1	S	34	VAL	C-O	10.15	1.33	1.23
2	G	146	TYR	C-N	-10.15	1.15	1.34
3	H	120	LYS	N-CA	-10.15	1.33	1.46
4	O	35	GLN	C-O	-10.15	1.11	1.24
2	A	27	GLN	CA-C	10.15	1.65	1.53
2	C	124	PHE	N-CA	-10.14	1.31	1.46
2	E	194	ARG	CG-CD	10.13	1.82	1.52
2	E	161	ARG	NE-CZ	10.12	1.44	1.33
3	F	160	ASN	N-CA	-10.12	1.32	1.46
3	B	169	HIS	CA-CB	10.12	1.67	1.53
4	N	58	ALA	C-O	10.10	1.36	1.24
2	A	219	GLU	N-CA	10.09	1.60	1.45
2	E	144	ASN	C-O	-10.09	1.11	1.24
2	G	67	ARG	CG-CD	10.08	1.82	1.52
3	D	10	GLU	N-CA	10.08	1.57	1.46
2	E	53	LEU	CA-C	-10.08	1.43	1.52
2	G	207	SER	CA-C	10.08	1.65	1.52
4	L	43	PHE	C-O	10.07	1.36	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	103	THR	CA-CB	-10.07	1.35	1.53
4	L	17	PRO	C-N	10.06	1.47	1.33
2	C	201	GLU	CA-CB	10.06	1.66	1.53
2	C	56	TRP	CB-CG	10.06	1.81	1.50
3	F	18	VAL	N-CA	10.06	1.58	1.46
3	B	210	LYS	CG-CD	10.04	1.82	1.52
2	E	216	ASN	C-O	10.04	1.36	1.24
3	B	111	GLY	CA-C	10.04	1.62	1.52
2	C	118	ALA	N-CA	10.04	1.60	1.45
2	A	30	LEU	C-O	-10.03	1.12	1.24
4	M	74	HIS	C-O	-10.04	1.12	1.23
2	E	110	LEU	C-O	10.03	1.36	1.23
2	A	161	ARG	CA-C	-10.03	1.40	1.52
3	F	34	MET	C-O	-10.02	1.12	1.23
2	E	198	TYR	CG-CD2	-10.02	1.18	1.39
3	H	151	PHE	CB-CG	-10.02	1.27	1.50
3	D	154	PRO	N-CD	-10.01	1.33	1.47
2	G	133	SER	CA-C	-10.01	1.39	1.52
3	B	212	ASP	C-N	-10.01	1.19	1.33
4	M	21	VAL	CA-CB	10.00	1.68	1.54
2	E	34	THR	CA-C	10.00	1.66	1.52
4	N	40	LYS	N-CA	9.99	1.58	1.45
4	L	22	THR	N-CA	-9.98	1.34	1.45
4	M	64	TRP	CG-CD1	-9.96	1.12	1.36
3	H	145	CYS	N-CA	-9.96	1.34	1.46
2	E	62	SER	C-O	-9.95	1.11	1.23
3	F	112	THR	C-O	-9.95	1.12	1.23
2	G	54	ILE	CA-C	-9.94	1.41	1.52
2	G	203	THR	CA-C	9.94	1.64	1.52
3	B	40	ALA	N-CA	9.93	1.60	1.46
4	L	26	ASN	N-CA	9.93	1.58	1.46
3	B	73	GLU	CA-C	9.93	1.65	1.53
3	F	159	TRP	CG-CD2	-9.93	1.25	1.43
3	B	90	ASP	N-CA	-9.92	1.32	1.46
2	A	127	SER	CA-C	-9.91	1.40	1.52
3	B	155	VAL	C-O	9.91	1.33	1.24
3	D	160	ASN	N-CA	9.90	1.58	1.46
4	M	37	ALA	CA-C	-9.90	1.40	1.52
3	B	117	SER	C-O	-9.90	1.12	1.23
2	A	149	ASP	CA-CB	9.90	1.70	1.53
4	L	64	TRP	C-O	-9.90	1.11	1.23
2	C	21	MET	C-O	-9.89	1.11	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	209	THR	CA-CB	-9.89	1.38	1.53
4	O	53	TYR	N-CA	9.87	1.58	1.46
4	M	24	LYS	CB-CG	9.87	1.82	1.52
4	M	77	ILE	CA-CB	-9.87	1.41	1.53
3	F	211	VAL	C-N	-9.87	1.21	1.33
3	B	68	PHE	C-O	9.87	1.36	1.24
2	E	6	GLN	N-CA	9.87	1.57	1.45
2	A	89	GLN	CB-CG	9.86	1.82	1.52
2	G	18	LYS	CA-C	9.86	1.64	1.52
4	M	63	GLU	CA-C	9.86	1.65	1.52
4	N	72	GLY	CA-C	-9.86	1.38	1.51
3	H	59	THR	CB-CG2	9.85	1.85	1.52
2	A	170	THR	CA-C	9.84	1.66	1.53
2	E	28	SER	CA-CB	9.84	1.70	1.53
2	E	194	ARG	CD-NE	9.84	1.60	1.46
3	H	181	THR	CA-CB	-9.84	1.37	1.53
3	F	1	GLN	C-N	9.83	1.47	1.33
2	G	102	LEU	C-O	9.83	1.35	1.23
3	B	106	ASP	CA-CB	9.82	1.69	1.53
3	B	97	ALA	C-O	-9.82	1.11	1.23
2	C	105	GLY	N-CA	9.82	1.54	1.45
4	L	26	ASN	C-O	9.81	1.36	1.24
2	G	76	ASP	C-O	9.81	1.35	1.23
2	G	98	TYR	N-CA	9.81	1.58	1.46
2	G	12	ALA	CA-C	-9.81	1.40	1.52
2	G	209	SER	C-O	-9.80	1.11	1.24
3	B	91	THR	C-N	-9.80	1.21	1.33
2	C	3	VAL	CA-C	-9.80	1.40	1.52
3	D	147	VAL	CA-C	-9.80	1.42	1.52
4	N	77	ILE	C-O	-9.80	1.13	1.24
3	D	21	SER	C-O	-9.80	1.12	1.24
3	F	111	GLY	CA-C	9.79	1.65	1.52
2	A	180	SER	CA-C	-9.79	1.40	1.52
3	D	217	PRO	CA-CB	9.79	1.68	1.53
3	F	81	LEU	C-O	-9.78	1.13	1.24
2	E	151	ASN	C-O	-9.78	1.11	1.23
1	S	13	ARG	CA-C	9.78	1.64	1.52
1	S	23	LYS	CA-CB	-9.78	1.36	1.53
3	D	158	THR	N-CA	9.77	1.58	1.45
2	E	28	SER	C-O	-9.77	1.11	1.24
3	D	11	LEU	CA-C	-9.77	1.42	1.52
2	A	196	ASN	CA-CB	-9.77	1.38	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	105	GLY	C-O	-9.77	1.07	1.23
2	A	20	THR	CA-C	9.76	1.63	1.53
2	A	83	SER	C-O	-9.76	1.11	1.24
2	C	71	ARG	CZ-NH2	9.76	1.46	1.33
4	L	73	ASN	N-CA	9.76	1.58	1.46
3	H	2	ILE	C-O	-9.75	1.12	1.24
2	G	87	GLU	CA-CB	9.75	1.68	1.53
3	B	99	PHE	N-CA	9.75	1.58	1.46
3	H	47	TRP	CE2-CZ2	-9.74	1.19	1.39
3	B	216	VAL	CA-C	-9.74	1.45	1.53
4	O	35	GLN	CA-CB	-9.74	1.37	1.53
2	G	3	VAL	CA-CB	9.73	1.67	1.54
2	A	4	MET	C-O	9.73	1.35	1.23
3	D	200	CYS	CA-C	-9.73	1.39	1.53
4	L	21	VAL	C-O	-9.72	1.09	1.23
2	A	79	LEU	N-CA	9.72	1.57	1.46
4	L	77	ILE	CB-CG2	-9.72	1.20	1.52
3	B	90	ASP	CA-CB	-9.71	1.37	1.53
2	C	56	TRP	CA-C	-9.71	1.38	1.52
2	C	202	ALA	N-CA	9.71	1.58	1.46
4	O	30	ALA	C-O	-9.71	1.12	1.24
2	E	82	SER	CA-CB	-9.71	1.38	1.53
2	G	109	LYS	CA-CB	-9.71	1.38	1.53
2	C	98	TYR	N-CA	9.70	1.57	1.46
1	Q	17	ARG	CA-C	9.70	1.64	1.52
2	E	133	SER	CA-C	9.70	1.65	1.52
2	E	4	MET	CA-CB	-9.70	1.38	1.53
3	B	186	VAL	N-CA	-9.69	1.34	1.46
2	A	114	ARG	CA-C	9.69	1.65	1.52
2	C	210	PRO	N-CA	-9.69	1.34	1.47
2	G	105	GLY	CA-C	-9.69	1.42	1.52
2	A	50	PRO	C-O	9.68	1.35	1.23
2	E	46	PRO	C-O	-9.68	1.11	1.24
4	L	55	ALA	N-CA	9.68	1.58	1.46
4	N	30	ALA	CA-C	-9.68	1.39	1.52
3	B	73	GLU	N-CA	9.67	1.59	1.46
2	A	103	THR	CA-CB	-9.66	1.34	1.53
2	C	215	PHE	CA-C	9.66	1.65	1.52
3	F	40	ALA	C-O	-9.65	1.11	1.24
3	F	38	ASN	C-O	-9.63	1.11	1.23
3	H	9	PRO	CG-CD	9.63	1.83	1.50
3	D	184	SER	C-O	9.63	1.35	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	130	ALA	CA-C	-9.63	1.39	1.53
2	C	103	THR	N-CA	9.63	1.57	1.46
3	D	151	PHE	N-CA	-9.63	1.32	1.46
3	F	172	PRO	CA-C	9.63	1.64	1.52
4	O	34	ILE	CB-CG1	9.63	1.72	1.53
2	A	117	ALA	N-CA	9.63	1.58	1.46
3	H	67	ARG	C-O	-9.62	1.09	1.23
3	B	120	LYS	CA-CB	-9.62	1.39	1.53
3	D	119	ALA	CA-C	-9.62	1.39	1.52
2	E	138	VAL	C-O	-9.62	1.12	1.23
4	M	42	THR	CA-C	9.62	1.64	1.52
2	A	203	THR	C-O	-9.61	1.12	1.23
2	G	69	THR	CA-CB	9.61	1.69	1.53
3	B	104	TYR	CE1-CZ	-9.61	1.15	1.38
4	N	68	LEU	C-O	9.60	1.36	1.24
3	D	20	ILE	C-N	9.60	1.46	1.33
3	B	11	LEU	C-O	9.59	1.36	1.23
2	C	82	SER	CA-CB	9.59	1.69	1.53
2	C	89	GLN	CA-C	-9.59	1.40	1.52
3	H	16	GLU	C-O	9.59	1.32	1.24
3	F	62	ASP	C-O	-9.58	1.12	1.24
3	F	218	ARG	CZ-NH1	9.58	1.46	1.32
3	F	114	VAL	N-CA	-9.58	1.35	1.46
4	N	25	VAL	N-CA	9.58	1.58	1.46
2	G	202	ALA	CA-CB	-9.57	1.41	1.53
3	H	114	VAL	CA-C	-9.57	1.40	1.52
3	B	145	CYS	N-CA	-9.57	1.33	1.46
4	O	77	ILE	CA-C	9.57	1.63	1.52
2	A	171	ASP	C-O	-9.57	1.12	1.24
2	G	203	THR	CA-CB	9.57	1.69	1.53
3	F	64	PHE	CA-C	9.57	1.65	1.52
1	P	22	VAL	CA-CB	9.56	1.67	1.54
3	D	197	THR	CB-CG2	9.56	1.84	1.52
3	B	151	PHE	CD2-CE2	-9.56	1.09	1.38
3	F	198	VAL	CA-C	-9.56	1.40	1.52
2	A	91	VAL	CA-CB	-9.55	1.42	1.54
2	C	108	THR	CB-CG2	9.55	1.84	1.52
3	D	40	ALA	CA-C	-9.55	1.42	1.53
2	A	217	ARG	C-O	9.54	1.36	1.24
3	B	104	TYR	CA-C	9.54	1.63	1.53
3	H	172	PRO	CG-CD	9.54	1.83	1.50
4	L	51	TYR	CE2-CZ	-9.54	1.15	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	H	112	THR	C-O	-9.53	1.12	1.23
3	F	163	SER	CA-CB	9.53	1.65	1.53
1	S	37	LEU	CG-CD2	9.53	1.83	1.52
2	A	209	SER	C-O	-9.52	1.13	1.24
3	B	167	GLY	C-O	9.52	1.36	1.23
3	F	166	SER	C-N	-9.52	1.21	1.33
2	A	195	HIS	CB-CG	-9.51	1.36	1.50
2	C	214	SER	CA-C	-9.51	1.40	1.52
3	H	67	ARG	N-CA	9.51	1.57	1.46
3	F	158	THR	CA-C	-9.51	1.39	1.53
2	G	14	SER	CA-C	-9.50	1.41	1.52
2	G	161	ARG	NE-CZ	9.49	1.43	1.33
3	F	43	LYS	CA-CB	-9.49	1.35	1.54
2	G	145	PHE	CA-C	-9.49	1.41	1.52
3	H	201	ASN	C-O	-9.47	1.12	1.24
2	A	117	ALA	C-O	-9.47	1.12	1.24
2	C	41	TRP	CD2-CE2	-9.47	1.25	1.41
4	M	33	LYS	CA-C	-9.47	1.40	1.53
3	D	182	LEU	N-CA	-9.45	1.34	1.47
4	L	78	LYS	N-CA	9.45	1.58	1.45
3	D	131	PRO	C-O	9.44	1.34	1.23
3	B	178	ASP	C-O	9.44	1.35	1.24
2	G	60	ARG	N-CA	9.44	1.58	1.46
4	M	74	HIS	CA-C	-9.44	1.41	1.53
4	L	25	VAL	CA-C	-9.44	1.41	1.52
4	N	35	GLN	C-N	-9.43	1.20	1.33
2	A	16	GLY	CA-C	9.43	1.65	1.51
2	E	157	ASP	N-CA	-9.43	1.34	1.46
3	H	121	THR	CA-CB	9.43	1.68	1.53
2	E	202	ALA	N-CA	9.43	1.57	1.46
2	C	33	ARG	C-O	9.43	1.35	1.24
3	H	41	PRO	CA-C	-9.43	1.39	1.52
3	D	197	THR	CA-C	-9.42	1.40	1.52
3	D	46	ASN	C-O	-9.42	1.12	1.23
3	D	56	GLY	C-O	-9.42	1.11	1.23
4	O	76	ASN	C-O	-9.42	1.12	1.24
2	G	179	TYR	CA-C	9.41	1.65	1.52
3	B	130	ALA	C-O	-9.41	1.12	1.24
2	A	84	VAL	CA-CB	9.39	1.67	1.54
2	G	101	PRO	CA-C	-9.39	1.34	1.52
3	B	155	VAL	CA-CB	9.38	1.71	1.55
3	F	94	TYR	CG-CD2	-9.38	1.19	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	G	124	PHE	C-O	-9.38	1.12	1.24
2	A	162	GLN	CG-CD	9.38	1.75	1.52
3	B	173	ALA	CA-C	-9.38	1.40	1.53
2	G	166	LEU	CG-CD1	9.38	1.83	1.52
2	A	179	TYR	CG-CD1	-9.37	1.19	1.39
4	L	34	ILE	CA-CB	-9.37	1.42	1.54
2	C	104	PHE	CB-CG	-9.37	1.29	1.50
3	F	183	SER	CA-CB	-9.37	1.35	1.53
1	S	43	ARG	NE-CZ	9.36	1.43	1.33
3	F	45	LEU	CB-CG	-9.36	1.34	1.53
3	F	72	LEU	CB-CG	-9.35	1.34	1.53
3	F	163	SER	CA-C	9.35	1.63	1.53
2	G	198	TYR	CB-CG	-9.34	1.31	1.51
3	F	101	LEU	C-O	-9.34	1.12	1.24
2	A	132	THR	CA-C	-9.33	1.40	1.52
4	N	55	ALA	CA-C	9.33	1.65	1.52
2	A	177	SER	CA-CB	-9.33	1.39	1.53
3	F	151	PHE	CE1-CZ	-9.31	1.10	1.38
2	A	197	SER	CA-C	-9.30	1.41	1.52
3	B	182	LEU	N-CA	9.30	1.57	1.46
2	C	104	PHE	CA-CB	-9.30	1.37	1.53
3	F	11	LEU	C-O	9.30	1.34	1.23
3	F	27	TYR	C-O	-9.30	1.11	1.23
3	F	31	ASP	CA-C	9.30	1.65	1.52
2	E	187	LEU	N-CA	9.29	1.58	1.46
3	H	190	SER	CA-C	9.29	1.65	1.52
3	B	36	TRP	CD2-CE3	-9.29	1.25	1.40
3	B	39	GLN	N-CA	9.29	1.58	1.46
3	H	157	VAL	C-O	-9.29	1.14	1.24
2	A	99	ILE	N-CA	9.28	1.57	1.46
3	D	52	ASN	CA-CB	9.28	1.65	1.52
3	H	207	SER	C-N	-9.28	1.20	1.33
2	G	104	PHE	CE2-CZ	-9.28	1.10	1.38
3	D	156	THR	CA-CB	9.27	1.69	1.53
2	E	38	TYR	CE2-CZ	-9.27	1.16	1.38
2	G	119	PRO	CA-CB	-9.27	1.41	1.53
2	C	203	THR	C-O	9.27	1.35	1.24
2	G	95	LYS	CD-CE	-9.27	1.24	1.52
3	H	88	ASN	C-O	-9.27	1.12	1.24
3	D	195	SER	N-CA	9.26	1.58	1.47
2	A	97	ALA	CA-CB	-9.25	1.38	1.54
2	A	18	LYS	CA-C	-9.25	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	210	LYS	CA-C	9.25	1.63	1.52
4	N	43	PHE	CG-CD2	-9.25	1.19	1.38
2	C	168	SER	CA-CB	9.25	1.69	1.53
2	A	1	ASP	CA-CB	9.24	1.72	1.53
2	C	108	THR	N-CA	-9.24	1.34	1.46
3	B	1	GLN	CA-C	9.24	1.72	1.52
3	H	175	LEU	CG-CD2	9.24	1.83	1.52
2	A	51	LYS	CA-C	-9.23	1.41	1.52
2	E	186	THR	N-CA	-9.23	1.34	1.46
4	L	18	LYS	CA-CB	9.23	1.69	1.53
2	A	161	ARG	NE-CZ	9.23	1.43	1.33
2	A	218	ASN	CB-CG	-9.23	1.28	1.52
3	D	73	GLU	CD-OE2	9.23	1.42	1.25
3	D	173	ALA	N-CA	9.22	1.57	1.45
2	G	114	ARG	CZ-NH2	9.22	1.45	1.33
3	B	109	GLY	C-O	-9.22	1.16	1.24
3	H	85	SER	CA-C	9.22	1.65	1.52
2	E	93	TYR	CG-CD2	-9.21	1.20	1.39
3	F	60	TYR	CA-C	-9.21	1.40	1.52
4	L	51	TYR	CA-CB	-9.21	1.38	1.53
3	D	155	VAL	CA-CB	-9.21	1.44	1.55
2	E	156	ILE	C-O	9.21	1.33	1.23
3	D	127	TYR	N-CA	-9.20	1.31	1.45
3	F	179	LEU	C-O	9.20	1.33	1.23
2	G	53	LEU	C-N	-9.20	1.28	1.33
1	Q	42	PRO	CA-CB	9.19	1.66	1.53
3	D	85	SER	C-O	9.19	1.35	1.24
2	A	216	ASN	CG-OD1	9.19	1.41	1.23
3	D	83	ILE	C-O	-9.19	1.13	1.24
1	Q	23	LYS	CG-CD	9.18	1.79	1.52
2	E	87	GLU	C-O	9.18	1.35	1.24
2	G	169	TRP	CA-C	9.18	1.64	1.52
4	M	31	ASP	CB-CG	-9.17	1.29	1.52
3	F	22	CYS	C-O	-9.17	1.12	1.23
4	O	36	THR	N-CA	-9.16	1.34	1.46
3	B	188	VAL	CA-C	-9.16	1.43	1.52
3	D	178	ASP	C-O	-9.16	1.11	1.23
1	S	37	LEU	CA-C	-9.16	1.43	1.53
3	D	181	THR	CA-CB	-9.15	1.39	1.53
2	E	118	ALA	CA-C	-9.15	1.40	1.52
3	D	184	SER	CA-C	9.15	1.63	1.52
2	A	158	GLY	N-CA	9.15	1.58	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	130	GLN	CA-CB	9.14	1.69	1.53
3	D	30	THR	CA-CB	9.14	1.68	1.54
2	G	138	VAL	N-CA	-9.14	1.30	1.45
3	B	46	ASN	C-O	-9.14	1.13	1.24
2	C	45	LYS	CA-C	-9.14	1.43	1.53
2	E	214	SER	CA-CB	-9.14	1.40	1.53
2	A	50	PRO	N-CA	-9.13	1.35	1.47
4	L	37	ALA	CA-C	9.13	1.64	1.52
2	E	44	GLN	N-CA	-9.13	1.34	1.46
3	F	67	ARG	CD-NE	-9.13	1.33	1.46
2	A	123	ILE	CA-CB	-9.13	1.43	1.54
3	B	35	HIS	CA-C	9.13	1.63	1.52
2	G	68	PHE	N-CA	-9.13	1.34	1.46
2	A	172	GLN	C-O	-9.12	1.12	1.23
3	H	94	TYR	CA-C	-9.12	1.40	1.52
2	E	70	GLY	C-O	9.11	1.36	1.23
3	D	215	ILE	N-CA	-9.11	1.36	1.46
4	M	64	TRP	CA-C	-9.11	1.41	1.52
3	H	88	ASN	CA-C	9.10	1.65	1.52
3	B	105	PHE	CA-C	-9.10	1.42	1.52
2	A	50	PRO	CA-C	9.09	1.63	1.52
3	H	59	THR	CA-C	-9.09	1.40	1.53
2	G	1	ASP	CB-CG	9.09	1.74	1.52
4	O	21	VAL	CA-C	-9.09	1.41	1.52
4	O	59	LYS	CA-C	-9.09	1.40	1.52
3	B	211	VAL	CA-C	9.09	1.63	1.52
2	C	21	MET	CA-C	-9.08	1.41	1.52
3	B	100	LEU	C-N	9.08	1.47	1.33
3	B	154	PRO	N-CA	-9.07	1.31	1.47
2	A	23	CYS	CA-C	-9.07	1.40	1.52
4	M	42	THR	C-O	9.07	1.34	1.23
2	C	2	ILE	N-CA	9.06	1.57	1.46
4	O	47	THR	C-O	9.05	1.35	1.24
4	N	51	TYR	N-CA	-9.05	1.35	1.46
3	F	161	SER	CA-C	9.04	1.66	1.52
2	C	70	GLY	C-O	9.04	1.36	1.23
3	D	90	ASP	C-O	9.04	1.36	1.24
4	M	79	PHE	CE2-CZ	-9.04	1.11	1.38
2	G	118	ALA	C-O	9.03	1.36	1.24
3	B	166	SER	C-O	-9.03	1.13	1.24
2	E	90	ALA	CA-C	-9.03	1.41	1.53
2	A	2	ILE	CA-CB	-9.02	1.42	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	141	PHE	CG-CD1	-9.02	1.20	1.38
2	G	112	LEU	CB-CG	-9.02	1.35	1.53
2	G	36	LYS	CG-CD	9.02	1.79	1.52
2	C	111	GLU	CA-C	9.02	1.64	1.52
4	O	47	THR	N-CA	-9.02	1.35	1.46
4	O	51	TYR	C-N	-9.02	1.23	1.33
3	D	131	PRO	CA-C	9.02	1.63	1.52
3	H	213	LYS	CA-CB	-9.02	1.37	1.53
1	P	38	PRO	C-O	-9.01	1.12	1.24
2	A	192	TYR	CG-CD2	-9.01	1.20	1.39
3	H	31	ASP	C-O	9.01	1.35	1.24
3	H	197	THR	CA-C	-9.01	1.40	1.53
2	C	27	GLN	C-N	9.01	1.46	1.33
2	A	75	THR	C-O	-9.00	1.12	1.24
4	L	21	VAL	CA-C	-9.00	1.43	1.53
3	D	102	ARG	CA-CB	-9.00	1.38	1.53
1	Q	21	ASP	CA-C	9.00	1.64	1.52
3	F	116	VAL	C-O	9.00	1.33	1.24
3	D	34	MET	C-O	8.99	1.34	1.24
3	D	50	TRP	C-O	8.99	1.33	1.24
3	F	150	TYR	CA-C	-8.99	1.40	1.52
2	A	210	PRO	C-O	8.99	1.34	1.23
3	B	120	LYS	C-O	-8.99	1.13	1.24
3	B	62	ASP	CA-CB	8.98	1.67	1.53
3	F	91	THR	CB-CG2	-8.98	1.23	1.52
3	B	207	SER	C-O	-8.98	1.12	1.24
3	D	176	GLN	CA-CB	8.98	1.68	1.53
3	F	138	ASN	CA-CB	8.98	1.68	1.53
2	A	211	ILE	CG1-CD1	8.97	1.86	1.51
3	B	151	PHE	CD1-CE1	-8.97	1.11	1.38
2	C	16	GLY	CA-C	8.97	1.64	1.51
2	E	42	TYR	CG-CD2	-8.97	1.20	1.39
2	G	178	THR	CA-CB	-8.97	1.38	1.52
2	G	20	THR	CA-CB	8.97	1.69	1.53
4	O	59	LYS	CB-CG	8.97	1.79	1.52
3	H	180	TYR	C-O	-8.96	1.12	1.23
2	A	11	LEU	CA-C	8.96	1.64	1.52
2	E	41	TRP	CE2-CZ2	-8.96	1.21	1.39
3	D	170	THR	CB-CG2	8.96	1.82	1.52
2	A	217	ARG	NE-CZ	8.95	1.42	1.33
2	C	146	TYR	N-CA	-8.95	1.34	1.46
2	C	33	ARG	NE-CZ	8.95	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	H	43	LYS	CD-CE	-8.95	1.25	1.52
3	H	104	TYR	C-O	-8.94	1.12	1.24
3	D	207	SER	C-O	-8.94	1.13	1.24
2	G	36	LYS	N-CA	8.94	1.56	1.46
3	F	5	VAL	CA-C	-8.94	1.41	1.52
4	N	65	THR	CA-C	-8.94	1.42	1.52
3	H	141	VAL	CA-CB	-8.94	1.42	1.54
3	B	211	VAL	N-CA	-8.94	1.35	1.46
3	H	58	PRO	C-O	8.94	1.35	1.24
3	D	93	THR	C-O	8.93	1.34	1.23
3	D	115	THR	CB-CG2	-8.93	1.23	1.52
3	F	109	GLY	C-O	-8.93	1.11	1.23
3	D	69	ALA	N-CA	-8.93	1.35	1.45
4	N	40	LYS	C-O	8.93	1.35	1.23
3	H	69	ALA	N-CA	-8.93	1.35	1.46
2	C	208	THR	N-CA	8.92	1.58	1.46
2	E	124	PHE	CA-CB	-8.92	1.41	1.54
3	D	216	VAL	N-CA	-8.92	1.38	1.46
2	E	143	ASN	C-O	-8.92	1.12	1.23
3	F	37	VAL	CA-CB	-8.92	1.43	1.54
2	G	54	ILE	N-CA	-8.92	1.36	1.46
3	B	199	THR	N-CA	-8.91	1.35	1.46
3	F	199	THR	C-N	8.91	1.46	1.33
4	N	23	ILE	CA-C	-8.90	1.41	1.52
2	G	113	LYS	CA-C	8.90	1.63	1.52
2	C	72	GLY	CA-C	-8.90	1.41	1.51
3	B	159	TRP	CE2-CZ2	-8.89	1.21	1.39
1	Q	25	PRO	N-CA	8.89	1.54	1.47
3	H	53	THR	CA-CB	-8.89	1.38	1.53
4	O	43	PHE	CG-CD2	8.89	1.57	1.38
2	C	13	VAL	CA-CB	-8.89	1.43	1.54
2	A	199	THR	CB-CG2	8.89	1.81	1.52
2	G	215	PHE	CA-C	8.89	1.63	1.52
3	B	41	PRO	N-CD	-8.88	1.35	1.47
2	C	18	LYS	CG-CD	8.88	1.79	1.52
2	E	96	GLN	N-CA	-8.88	1.35	1.46
2	E	138	VAL	CA-CB	8.88	1.63	1.53
2	G	79	LEU	C-O	8.88	1.34	1.24
2	C	144	ASN	C-O	-8.87	1.12	1.24
2	E	98	TYR	CG-CD1	-8.87	1.20	1.39
3	F	48	MET	CG-SD	8.87	2.02	1.80
3	B	161	SER	C-O	8.87	1.38	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	188	THR	CA-C	-8.86	1.41	1.52
2	A	61	GLU	CD-OE2	8.86	1.42	1.25
2	G	7	SER	N-CA	-8.85	1.37	1.45
3	D	215	ILE	CA-C	8.85	1.64	1.52
3	D	99	PHE	CG-CD2	8.84	1.57	1.38
3	D	166	SER	CA-C	-8.84	1.41	1.52
3	H	132	GLY	CA-C	8.84	1.59	1.52
2	A	205	LYS	CB-CG	8.83	1.78	1.52
2	A	142	LEU	C-O	-8.82	1.09	1.23
2	E	49	SER	CA-C	8.82	1.63	1.52
3	D	119	ALA	N-CA	-8.81	1.34	1.46
2	G	146	TYR	CG-CD1	-8.81	1.20	1.39
3	F	73	GLU	CA-C	-8.81	1.41	1.53
2	G	89	GLN	C-O	-8.81	1.13	1.24
4	N	51	TYR	CA-C	8.81	1.65	1.52
2	E	102	LEU	CA-CB	-8.80	1.38	1.53
3	F	130	ALA	CA-C	-8.80	1.44	1.52
3	B	19	LYS	CA-C	-8.80	1.42	1.52
3	H	218	ARG	N-CA	8.80	1.62	1.46
3	H	67	ARG	NE-CZ	-8.80	1.23	1.33
2	E	104	PHE	C-O	-8.79	1.11	1.23
2	A	67	ARG	C-N	-8.79	1.21	1.33
3	B	74	THR	CA-C	-8.79	1.41	1.52
3	B	94	TYR	CA-CB	-8.79	1.40	1.53
2	E	141	PHE	CG-CD2	-8.78	1.20	1.38
3	F	211	VAL	CA-CB	-8.78	1.42	1.54
3	H	147	VAL	CA-CB	-8.77	1.43	1.54
2	G	1	ASP	CA-CB	8.77	1.71	1.53
3	D	23	LYS	CB-CG	8.76	1.78	1.52
3	D	147	VAL	C-O	-8.76	1.13	1.24
3	B	57	GLU	C-O	-8.76	1.15	1.24
4	O	74	HIS	CA-C	8.76	1.63	1.52
2	A	69	THR	CA-CB	8.76	1.69	1.53
3	D	148	LYS	C-O	-8.76	1.13	1.24
3	H	157	VAL	C-N	-8.75	1.21	1.33
3	D	159	TRP	CD2-CE2	-8.74	1.26	1.41
3	H	186	VAL	C-O	-8.74	1.13	1.24
3	F	6	GLN	N-CA	8.74	1.55	1.45
3	B	29	PHE	CE1-CZ	-8.73	1.12	1.38
3	D	90	ASP	CB-CG	-8.73	1.30	1.52
1	P	29	GLN	N-CA	8.73	1.58	1.46
3	B	69	ALA	N-CA	-8.72	1.35	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	214	LYS	CE-NZ	8.72	1.75	1.49
2	A	206	THR	CA-C	8.71	1.64	1.52
3	F	173	ALA	CA-CB	8.71	1.66	1.53
2	C	73	SER	CA-CB	8.70	1.68	1.53
2	G	26	SER	CA-CB	-8.69	1.38	1.53
2	A	24	LYS	CA-CB	8.69	1.66	1.53
4	L	34	ILE	CG1-CD1	8.69	1.85	1.51
2	E	148	LYS	N-CA	8.68	1.57	1.46
3	B	179	LEU	CA-C	-8.67	1.41	1.52
3	B	194	PRO	C-O	8.67	1.40	1.23
2	A	100	PRO	C-O	8.66	1.34	1.24
3	B	118	SER	CA-C	-8.66	1.41	1.52
3	B	176	GLN	CD-NE2	8.66	1.51	1.33
3	H	98	ARG	CZ-NH1	8.66	1.44	1.32
2	C	13	VAL	C-O	-8.66	1.14	1.24
4	M	23	ILE	C-O	-8.65	1.12	1.23
4	N	33	LYS	CE-NZ	8.65	1.75	1.49
3	H	48	MET	N-CA	8.65	1.57	1.46
3	H	90	ASP	C-O	-8.64	1.12	1.24
3	D	122	THR	CA-C	-8.64	1.42	1.52
2	E	100	PRO	C-O	-8.64	1.14	1.24
2	G	76	ASP	CA-CB	8.64	1.66	1.53
2	E	41	TRP	CB-CG	8.62	1.76	1.50
3	H	106	ASP	C-O	8.62	1.34	1.24
4	L	53	TYR	C-O	-8.62	1.12	1.24
2	A	188	THR	N-CA	-8.62	1.35	1.46
4	O	52	ARG	CB-CG	8.61	1.78	1.52
2	C	198	TYR	CG-CD1	-8.61	1.21	1.39
2	C	160	GLU	C-O	8.61	1.34	1.23
2	G	199	THR	C-O	-8.60	1.13	1.24
2	C	187	LEU	CG-CD1	8.60	1.80	1.52
3	B	166	SER	C-N	-8.59	1.21	1.33
3	D	157	VAL	C-O	8.59	1.33	1.24
1	S	34	VAL	CA-C	8.59	1.61	1.52
3	B	10	GLU	N-CA	8.59	1.56	1.45
3	B	214	LYS	N-CA	8.58	1.56	1.46
3	F	72	LEU	CA-C	8.58	1.63	1.52
2	C	115	ALA	CA-C	-8.58	1.42	1.52
2	C	165	VAL	CA-C	8.57	1.63	1.52
2	G	205	LYS	CD-CE	8.56	1.78	1.52
3	D	31	ASP	CB-CG	8.56	1.73	1.52
3	H	176	GLN	CA-CB	8.56	1.68	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	137	SER	N-CA	-8.56	1.35	1.46
3	B	2	ILE	CG1-CD1	8.56	1.85	1.51
4	L	58	ALA	CA-C	8.55	1.64	1.52
2	C	124	PHE	CD1-CE1	-8.55	1.13	1.38
2	G	15	ALA	CA-CB	-8.55	1.39	1.53
3	B	141	VAL	CA-C	8.55	1.63	1.52
1	Q	9	ARG	CZ-NH2	8.55	1.44	1.33
4	M	40	LYS	N-CA	8.54	1.57	1.46
2	E	6	GLN	CA-C	8.54	1.64	1.52
4	N	32	GLY	CA-C	-8.54	1.39	1.51
2	G	150	ILE	C-O	8.54	1.34	1.23
3	H	18	VAL	CA-C	8.53	1.63	1.52
2	A	64	VAL	CA-C	-8.53	1.44	1.52
3	F	162	GLY	CA-C	-8.53	1.39	1.51
2	G	93	TYR	CE1-CZ	-8.53	1.17	1.38
4	O	66	ALA	N-CA	-8.53	1.35	1.46
3	D	25	SER	CA-C	-8.53	1.41	1.52
4	N	29	PHE	CA-C	8.52	1.65	1.53
3	B	126	VAL	C-O	-8.52	1.15	1.24
4	O	55	ALA	C-O	-8.52	1.13	1.24
3	H	59	THR	N-CA	8.51	1.60	1.46
4	N	75	MET	CA-C	8.51	1.61	1.52
4	M	52	ARG	C-O	8.51	1.34	1.24
2	A	57	ALA	CA-C	-8.50	1.41	1.52
2	C	113	LYS	CE-NZ	8.50	1.74	1.49
3	B	137	THR	C-O	8.50	1.34	1.24
2	C	86	ALA	N-CA	-8.50	1.35	1.46
3	D	102	ARG	NE-CZ	8.50	1.42	1.33
2	A	99	ILE	C-O	-8.50	1.13	1.24
2	A	172	GLN	N-CA	-8.50	1.34	1.46
4	M	64	TRP	CG-CD2	-8.49	1.28	1.43
3	B	51	VAL	C-O	-8.49	1.14	1.24
2	G	138	VAL	CA-C	-8.49	1.42	1.52
4	O	54	ALA	CA-CB	8.49	1.67	1.53
3	B	80	TYR	N-CA	8.49	1.56	1.45
2	G	33	ARG	N-CA	8.49	1.56	1.45
2	E	73	SER	CA-CB	-8.49	1.39	1.53
1	Q	9	ARG	CZ-NH1	8.49	1.44	1.32
3	F	140	MET	C-O	8.48	1.33	1.23
2	A	97	ALA	C-O	-8.48	1.13	1.23
3	B	196	GLU	CA-CB	8.48	1.59	1.53
4	M	52	ARG	CD-NE	8.48	1.58	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	88	ASN	CG-OD1	8.48	1.39	1.23
2	C	81	ILE	C-N	-8.47	1.21	1.33
3	D	93	THR	CA-CB	-8.47	1.40	1.53
3	D	175	LEU	CG-CD2	8.47	1.80	1.52
2	E	120	THR	N-CA	-8.47	1.34	1.47
2	C	27	GLN	CD-NE2	8.46	1.51	1.33
3	B	159	TRP	CG-CD2	-8.46	1.28	1.43
3	B	159	TRP	NE1-CE2	-8.46	1.28	1.37
3	B	82	GLN	CA-C	-8.46	1.42	1.52
4	O	45	GLU	C-O	-8.46	1.13	1.24
3	H	176	GLN	CA-C	8.45	1.64	1.52
3	F	107	VAL	CA-CB	-8.45	1.42	1.55
3	D	124	PRO	C-O	-8.45	1.12	1.24
3	F	38	ASN	CA-C	-8.45	1.41	1.52
2	C	149	ASP	CG-OD1	8.45	1.41	1.25
2	E	194	ARG	C-O	-8.45	1.13	1.24
2	G	93	TYR	C-O	-8.44	1.12	1.23
2	A	145	PHE	CA-C	-8.44	1.41	1.52
3	D	11	LEU	CA-CB	8.44	1.67	1.53
1	Q	36	LEU	C-O	8.44	1.33	1.24
3	F	197	THR	C-O	8.44	1.34	1.24
3	B	34	MET	CG-SD	-8.44	1.59	1.80
3	D	201	ASN	CG-OD1	8.44	1.39	1.23
3	H	111	GLY	CA-C	-8.44	1.41	1.52
2	G	212	VAL	N-CA	-8.43	1.36	1.46
3	F	202	VAL	CB-CG2	-8.43	1.24	1.52
2	C	138	VAL	C-O	8.43	1.35	1.24
2	E	191	GLU	C-O	-8.43	1.12	1.24
3	F	48	MET	N-CA	-8.42	1.36	1.46
4	N	39	PHE	CA-C	-8.42	1.42	1.52
1	P	33	GLY	CA-C	8.41	1.61	1.51
4	N	61	ASN	C-N	8.41	1.45	1.33
2	A	40	ALA	CA-C	-8.41	1.42	1.52
2	A	18	LYS	N-CA	8.41	1.56	1.46
2	E	14	SER	CA-C	-8.41	1.41	1.53
4	O	34	ILE	N-CA	-8.41	1.35	1.46
2	A	119	PRO	CA-C	-8.40	1.40	1.52
3	D	160	ASN	C-O	-8.40	1.13	1.24
2	E	122	SER	N-CA	-8.40	1.36	1.46
2	G	109	LYS	CG-CD	8.40	1.77	1.52
3	H	71	SER	N-CA	-8.40	1.35	1.45
3	F	183	SER	CA-C	-8.40	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	129	GLU	CA-CB	8.40	1.66	1.53
1	Q	21	ASP	C-O	8.40	1.34	1.24
2	C	129	GLU	CB-CG	8.39	1.77	1.52
3	D	43	LYS	C-N	8.39	1.43	1.33
3	F	201	ASN	N-CA	-8.39	1.35	1.46
4	O	33	LYS	CG-CD	8.39	1.77	1.52
3	F	74	THR	CB-CG2	8.38	1.80	1.52
3	B	77	SER	CA-C	8.38	1.64	1.52
4	N	65	THR	CB-CG2	8.38	1.80	1.52
2	C	207	SER	CA-CB	8.38	1.67	1.53
2	G	213	LYS	CE-NZ	8.38	1.74	1.49
3	B	176	GLN	CG-CD	8.38	1.73	1.52
2	C	203	THR	CA-CB	8.37	1.65	1.53
3	D	159	TRP	NE1-CE2	-8.37	1.28	1.37
4	N	24	LYS	N-CA	-8.37	1.35	1.46
2	C	140	CYS	C-N	-8.37	1.21	1.33
3	H	68	PHE	CE2-CZ	8.37	1.63	1.38
2	A	216	ASN	N-CA	8.36	1.57	1.46
3	B	62	ASP	N-CA	8.35	1.56	1.46
3	D	47	TRP	CZ2-CH2	-8.35	1.21	1.37
2	A	195	HIS	CA-CB	-8.35	1.39	1.53
3	B	127	TYR	CE1-CZ	-8.35	1.18	1.38
2	E	136	ALA	CA-CB	-8.35	1.39	1.53
3	B	203	ALA	C-O	-8.35	1.14	1.23
3	D	195	SER	CA-C	8.35	1.60	1.53
3	F	155	VAL	C-O	-8.35	1.15	1.24
4	M	60	VAL	CA-C	-8.34	1.42	1.52
4	N	28	ILE	CB-CG1	8.34	1.70	1.53
4	M	48	ALA	C-O	8.34	1.45	1.24
2	E	94	CYS	CA-CB	-8.34	1.40	1.53
3	H	205	PRO	N-CD	-8.34	1.36	1.47
4	L	28	ILE	CA-CB	8.33	1.63	1.54
2	G	77	PHE	CD2-CE2	-8.33	1.13	1.38
1	P	30	ILE	CG1-CD1	8.33	1.84	1.51
4	O	59	LYS	N-CA	-8.32	1.35	1.46
4	L	53	TYR	CZ-OH	-8.32	1.20	1.38
3	B	163	SER	N-CA	-8.32	1.35	1.46
2	C	42	TYR	C-N	8.32	1.44	1.33
1	S	9	ARG	NE-CZ	8.32	1.42	1.33
3	H	72	LEU	C-O	-8.31	1.13	1.23
2	E	34	THR	CA-CB	-8.31	1.39	1.53
2	A	85	GLN	N-CA	-8.31	1.35	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	H	216	VAL	C-N	-8.31	1.26	1.33
2	A	41	TRP	CD2-CE2	-8.30	1.27	1.41
3	B	201	ASN	CB-CG	-8.30	1.31	1.52
3	F	104	TYR	CE2-CZ	-8.30	1.18	1.38
3	B	150	TYR	C-O	-8.30	1.13	1.23
3	H	87	LYS	CA-C	-8.30	1.42	1.52
2	C	161	ARG	CG-CD	8.29	1.77	1.52
2	E	110	LEU	CG-CD1	-8.29	1.25	1.52
2	A	85	GLN	CA-C	-8.29	1.42	1.52
2	G	10	SER	CA-C	-8.29	1.42	1.52
3	H	189	PRO	CA-C	-8.29	1.43	1.52
3	B	135	ALA	CA-CB	8.29	1.67	1.53
3	D	5	VAL	CA-CB	8.28	1.65	1.54
2	A	211	ILE	N-CA	-8.28	1.36	1.46
3	H	174	VAL	C-O	-8.28	1.15	1.24
4	N	76	ASN	C-O	-8.28	1.14	1.24
4	N	41	GLY	C-O	-8.28	1.12	1.23
3	H	198	VAL	C-O	-8.28	1.14	1.24
3	F	134	ALA	N-CA	-8.27	1.36	1.46
2	G	130	GLN	CA-C	8.27	1.64	1.52
2	E	167	ASN	C-N	8.27	1.45	1.33
3	F	206	ALA	CA-CB	-8.27	1.40	1.53
2	C	115	ALA	CA-CB	-8.26	1.39	1.53
3	F	184	SER	C-O	-8.26	1.12	1.23
2	G	186	THR	CA-CB	-8.26	1.41	1.53
2	A	79	LEU	CA-C	8.26	1.62	1.52
2	C	149	ASP	CG-OD2	8.26	1.41	1.25
2	E	76	ASP	CG-OD1	8.26	1.41	1.25
3	H	198	VAL	CB-CG2	8.26	1.79	1.52
2	G	111	GLU	C-O	-8.26	1.13	1.24
3	H	98	ARG	N-CA	-8.25	1.35	1.46
2	C	201	GLU	CA-C	-8.25	1.42	1.53
2	A	116	ASP	C-O	8.24	1.35	1.23
2	A	218	ASN	CA-CB	-8.24	1.41	1.53
2	G	201	GLU	CA-CB	8.24	1.62	1.52
2	E	102	LEU	CB-CG	-8.23	1.36	1.53
2	G	60	ARG	CA-CB	8.23	1.67	1.53
3	F	192	THR	CA-CB	8.23	1.66	1.53
3	D	187	THR	CA-C	-8.23	1.42	1.52
3	F	70	PHE	CA-C	8.23	1.63	1.53
3	F	100	LEU	N-CA	-8.22	1.34	1.45
2	E	53	LEU	C-O	8.22	1.34	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	179	TYR	CE1-CZ	-8.21	1.18	1.38
2	A	196	ASN	C-O	8.21	1.33	1.24
3	B	190	SER	C-N	8.21	1.44	1.33
3	D	123	PRO	CA-CB	-8.21	1.42	1.54
3	F	121	THR	N-CA	8.21	1.57	1.46
3	D	210	LYS	CD-CE	8.20	1.77	1.52
2	G	86	ALA	C-O	-8.20	1.14	1.24
2	A	89	GLN	N-CA	-8.20	1.36	1.46
2	A	177	SER	C-O	-8.20	1.12	1.23
3	H	147	VAL	C-O	-8.19	1.15	1.24
3	B	16	GLU	C-O	-8.19	1.13	1.24
3	D	152	PRO	N-CD	-8.19	1.36	1.47
2	A	23	CYS	CA-CB	-8.19	1.39	1.53
3	H	12	LYS	N-CA	8.19	1.56	1.46
3	B	67	ARG	CA-C	8.18	1.63	1.52
2	E	178	THR	CA-CB	-8.18	1.38	1.53
2	A	26	SER	C-O	-8.18	1.13	1.24
3	D	158	THR	CA-C	-8.18	1.42	1.52
3	D	201	ASN	C-O	8.18	1.33	1.23
3	B	104	TYR	CG-CD2	-8.18	1.22	1.39
2	C	160	GLU	CA-CB	8.18	1.66	1.53
2	E	15	ALA	C-O	8.18	1.33	1.23
2	A	36	LYS	CE-NZ	8.17	1.73	1.49
3	B	98	ARG	CG-CD	8.16	1.76	1.52
4	N	45	GLU	N-CA	-8.16	1.36	1.46
3	B	112	THR	N-CA	-8.16	1.36	1.46
3	B	189	PRO	CA-C	-8.16	1.40	1.52
2	A	194	ARG	N-CA	8.15	1.56	1.46
3	B	92	ALA	CA-C	8.15	1.62	1.52
2	A	15	ALA	N-CA	-8.15	1.35	1.46
1	P	36	LEU	CA-C	8.14	1.63	1.53
3	F	159	TRP	CB-CG	-8.14	1.25	1.50
2	G	158	GLY	CA-C	8.14	1.63	1.51
4	O	21	VAL	CA-CB	8.14	1.65	1.54
1	S	7	PRO	CG-CD	8.14	1.78	1.50
2	G	131	LEU	CA-C	-8.14	1.41	1.52
3	D	129	LEU	C-O	-8.14	1.12	1.23
2	E	189	LYS	N-CA	8.13	1.56	1.46
2	E	155	LYS	CE-NZ	8.13	1.73	1.49
4	L	79	PHE	CD1-CE1	-8.13	1.14	1.38
4	L	73	ASN	CA-CB	8.12	1.67	1.53
3	F	208	SER	CA-C	8.12	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	82	SER	CA-CB	-8.12	1.40	1.53
2	E	1	ASP	N-CA	8.12	1.61	1.46
2	E	148	LYS	CA-CB	8.12	1.67	1.53
2	G	12	ALA	CA-CB	-8.11	1.41	1.53
3	H	135	ALA	CA-CB	-8.12	1.39	1.53
3	B	50	TRP	C-N	8.11	1.43	1.33
4	M	61	ASN	CA-C	-8.11	1.43	1.52
3	F	50	TRP	CA-C	8.11	1.63	1.52
4	N	76	ASN	C-N	-8.11	1.23	1.33
2	E	207	SER	CA-C	-8.10	1.42	1.52
3	B	78	THR	N-CA	-8.10	1.35	1.46
2	E	2	ILE	CA-CB	-8.09	1.42	1.53
2	C	54	ILE	CA-C	-8.09	1.43	1.52
3	H	198	VAL	CA-C	-8.09	1.42	1.52
4	O	74	HIS	CB-CG	8.09	1.61	1.50
1	Q	9	ARG	CA-C	8.09	1.63	1.52
3	F	44	GLY	C-O	8.08	1.31	1.23
4	L	23	ILE	C-O	-8.08	1.15	1.24
2	C	31	ASN	CA-C	-8.08	1.42	1.52
3	D	117	SER	CA-C	-8.08	1.42	1.53
2	G	201	GLU	CA-C	-8.08	1.42	1.52
2	G	184	THR	N-CA	-8.08	1.36	1.46
3	D	27	TYR	C-O	-8.07	1.14	1.23
4	L	33	LYS	CG-CD	8.07	1.76	1.52
2	G	201	GLU	CB-CG	8.07	1.76	1.52
2	A	68	PHE	CD1-CE1	-8.06	1.14	1.38
2	A	154	TRP	C-N	-8.06	1.23	1.33
4	M	51	TYR	CG-CD1	-8.06	1.22	1.39
2	C	64	VAL	CB-CG1	-8.06	1.25	1.52
2	A	77	PHE	C-O	-8.05	1.14	1.23
3	H	82	GLN	CD-OE1	8.05	1.38	1.23
4	M	70	ASP	C-N	8.05	1.44	1.33
2	A	140	CYS	C-O	-8.05	1.13	1.23
2	C	144	ASN	CA-CB	-8.05	1.39	1.53
3	D	81	LEU	CG-CD1	8.05	1.79	1.52
2	E	95	LYS	CD-CE	8.05	1.76	1.52
4	L	51	TYR	CA-C	-8.04	1.41	1.52
2	G	24	LYS	C-O	-8.04	1.14	1.23
2	G	165	VAL	CA-CB	8.04	1.62	1.53
3	H	150	TYR	CG-CD1	-8.04	1.22	1.39
1	Q	25	PRO	CA-CB	8.04	1.58	1.53
4	N	77	ILE	N-CA	-8.04	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	2	ILE	CB-CG1	8.04	1.69	1.53
3	F	20	ILE	N-CA	-8.03	1.36	1.46
2	G	126	PRO	C-N	8.03	1.44	1.33
2	C	199	THR	N-CA	-8.03	1.36	1.46
3	D	190	SER	C-O	8.03	1.34	1.24
3	H	10	GLU	C-O	8.02	1.34	1.24
3	B	166	SER	CA-C	-8.02	1.42	1.52
3	H	57	GLU	CA-C	8.02	1.62	1.52
3	H	206	ALA	CA-C	-8.02	1.42	1.52
2	C	196	ASN	CB-CG	-8.01	1.32	1.52
4	N	31	ASP	N-CA	8.01	1.56	1.46
1	P	35	TYR	C-O	8.01	1.34	1.24
4	M	26	ASN	C-O	-8.01	1.13	1.24
3	D	49	GLY	C-O	8.00	1.34	1.23
2	G	193	GLU	CA-CB	8.00	1.66	1.53
3	D	34	MET	CA-C	-8.00	1.43	1.52
2	E	17	GLU	CA-C	8.00	1.64	1.53
3	B	31	ASP	CG-OD1	-7.99	1.10	1.25
2	C	37	ASN	CB-CG	7.99	1.72	1.52
2	E	217	ARG	N-CA	-7.99	1.37	1.46
3	F	151	PHE	CA-C	-7.99	1.42	1.52
1	Q	33	GLY	C-O	7.98	1.34	1.23
3	H	132	GLY	N-CA	7.98	1.55	1.46
2	C	39	LEU	CA-C	7.98	1.62	1.52
3	H	164	LEU	N-CA	-7.98	1.35	1.46
3	F	62	ASP	CG-OD2	7.98	1.40	1.25
3	D	216	VAL	CA-C	-7.97	1.46	1.52
3	H	136	GLN	CA-C	7.97	1.63	1.53
3	D	142	THR	CA-C	-7.97	1.43	1.52
3	D	118	SER	C-N	-7.97	1.22	1.33
2	E	11	LEU	C-O	7.97	1.34	1.23
2	G	127	SER	N-CA	7.97	1.55	1.46
3	H	4	LEU	N-CA	7.97	1.57	1.47
3	H	19	LYS	CB-CG	7.97	1.76	1.52
3	B	75	SER	N-CA	7.96	1.55	1.46
2	E	192	TYR	CE1-CZ	-7.96	1.19	1.38
2	G	157	ASP	C-O	-7.96	1.14	1.24
3	D	41	PRO	CG-CD	7.96	1.77	1.50
2	A	143	ASN	CA-CB	7.95	1.65	1.53
2	A	106	ALA	C-N	-7.95	1.21	1.33
2	E	153	LYS	CA-C	7.95	1.62	1.52
3	F	93	THR	CA-CB	-7.95	1.39	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	120	LYS	CD-CE	7.95	1.76	1.52
1	S	23	LYS	CE-NZ	7.95	1.73	1.49
3	F	177	SER	C-N	-7.94	1.22	1.33
3	H	67	ARG	CA-C	7.94	1.63	1.53
3	B	146	LEU	CA-CB	-7.93	1.41	1.53
2	C	39	LEU	C-O	7.93	1.33	1.23
1	Q	16	ASN	C-O	7.93	1.33	1.24
2	G	122	SER	N-CA	-7.93	1.37	1.46
1	Q	11	THR	N-CA	7.93	1.54	1.46
3	F	4	LEU	CG-CD1	-7.93	1.26	1.52
3	F	104	TYR	CG-CD1	-7.93	1.22	1.39
3	H	206	ALA	CA-CB	-7.93	1.40	1.53
1	Q	20	GLN	CD-NE2	7.92	1.49	1.33
2	E	76	ASP	N-CA	-7.92	1.36	1.46
2	A	34	THR	CB-CG2	-7.92	1.26	1.52
4	M	43	PHE	CA-CB	-7.92	1.40	1.53
2	A	121	VAL	CA-C	7.92	1.62	1.52
3	D	47	TRP	CD2-CE3	-7.92	1.27	1.40
3	D	155	VAL	CA-C	-7.92	1.43	1.52
3	B	23	LYS	N-CA	7.91	1.56	1.46
3	B	107	VAL	CB-CG1	-7.91	1.26	1.52
3	D	72	LEU	CA-C	7.91	1.62	1.53
3	F	47	TRP	N-CA	7.91	1.56	1.46
2	A	141	PHE	C-N	7.91	1.42	1.33
4	L	53	TYR	CE2-CZ	-7.91	1.19	1.38
4	M	80	ALA	C-O	-7.91	1.14	1.24
2	E	151	ASN	N-CA	-7.91	1.36	1.46
4	O	33	LYS	CA-C	7.91	1.63	1.52
2	G	102	LEU	CG-CD1	7.91	1.78	1.52
1	S	7	PRO	CA-CB	7.90	1.65	1.53
3	H	195	SER	CA-C	7.90	1.63	1.52
3	H	131	PRO	N-CD	-7.90	1.36	1.47
3	F	1	GLN	CB-CG	7.90	1.76	1.52
2	C	124	PHE	CA-CB	7.89	1.66	1.53
3	B	46	ASN	CA-C	-7.89	1.43	1.52
3	B	99	PHE	CA-CB	7.89	1.65	1.53
3	H	164	LEU	CG-CD2	7.89	1.78	1.52
3	B	205	PRO	C-O	7.89	1.34	1.24
2	A	50	PRO	C-N	7.88	1.44	1.33
3	H	217	PRO	CA-C	-7.88	1.45	1.52
3	B	113	THR	CA-CB	7.88	1.65	1.53
2	C	93	TYR	C-O	-7.88	1.13	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	145	CYS	CA-CB	-7.88	1.39	1.53
3	D	14	PRO	CA-C	-7.88	1.41	1.52
3	F	102	ARG	C-O	-7.88	1.13	1.24
3	B	192	THR	CA-CB	7.88	1.66	1.53
4	M	39	PHE	CE1-CZ	-7.88	1.15	1.38
3	D	118	SER	CA-C	7.88	1.61	1.52
4	N	22	THR	CA-C	-7.88	1.42	1.52
2	A	71	ARG	CD-NE	7.87	1.57	1.46
2	C	67	ARG	C-O	7.87	1.33	1.24
4	N	66	ALA	C-N	7.87	1.44	1.33
2	A	43	GLN	CD-NE2	7.87	1.49	1.33
3	D	73	GLU	CG-CD	7.87	1.71	1.52
3	B	190	SER	N-CA	7.87	1.56	1.46
1	S	22	VAL	C-O	7.86	1.33	1.24
4	M	51	TYR	CE2-CZ	-7.86	1.19	1.38
3	F	32	PHE	C-O	-7.86	1.14	1.24
3	D	173	ALA	C-O	-7.86	1.14	1.23
2	G	184	THR	C-O	7.85	1.32	1.23
3	H	36	TRP	CA-C	7.84	1.62	1.52
3	B	48	MET	N-CA	7.84	1.56	1.46
2	E	144	ASN	N-CA	-7.84	1.36	1.46
3	B	113	THR	CB-CG2	7.84	1.78	1.52
4	N	58	ALA	N-CA	-7.83	1.36	1.46
2	C	78	THR	CA-C	-7.82	1.43	1.52
3	B	197	THR	CA-CB	7.82	1.66	1.53
1	S	35	TYR	C-O	7.82	1.33	1.24
2	G	175	LYS	CG-CD	7.82	1.75	1.52
2	C	142	LEU	CA-C	7.81	1.62	1.53
3	B	169	HIS	C-N	-7.81	1.22	1.33
2	E	43	GLN	N-CA	7.81	1.55	1.46
2	C	154	TRP	CA-C	7.80	1.62	1.52
4	O	54	ALA	C-O	-7.80	1.14	1.24
2	C	67	ARG	CG-CD	7.80	1.75	1.52
2	A	37	ASN	CG-ND2	-7.80	1.16	1.33
3	B	20	ILE	CG1-CD1	-7.80	1.21	1.51
3	D	192	THR	C-O	7.80	1.34	1.24
3	D	172	PRO	C-O	7.79	1.34	1.24
2	G	206	THR	C-O	-7.79	1.14	1.24
2	C	148	LYS	C-O	-7.79	1.14	1.24
2	A	81	ILE	CA-CB	-7.79	1.43	1.54
2	A	10	SER	C-O	-7.79	1.15	1.23
2	C	69	THR	C-O	7.79	1.33	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	G	179	TYR	N-CA	-7.79	1.36	1.46
3	H	109	GLY	CA-C	-7.79	1.36	1.52
3	H	161	SER	C-O	7.79	1.33	1.24
3	B	3	GLN	N-CA	7.78	1.55	1.46
2	A	66	ASP	CA-C	7.78	1.63	1.52
3	B	38	ASN	CA-C	-7.78	1.43	1.52
3	D	116	VAL	N-CA	7.78	1.57	1.46
3	D	178	ASP	CB-CG	-7.78	1.32	1.52
2	A	80	THR	N-CA	-7.78	1.36	1.46
1	Q	30	ILE	C-O	7.78	1.33	1.24
3	H	68	PHE	CA-C	7.78	1.62	1.52
3	F	22	CYS	CA-CB	-7.78	1.41	1.52
3	F	36	TRP	CB-CG	-7.78	1.26	1.50
3	H	89	GLU	CD-OE1	7.77	1.40	1.25
3	D	194	PRO	CA-C	-7.77	1.37	1.52
2	E	71	ARG	CZ-NH2	7.77	1.43	1.33
2	A	117	ALA	CA-CB	7.77	1.66	1.53
2	E	153	LYS	CB-CG	7.77	1.75	1.52
3	F	9	PRO	C-O	-7.77	1.13	1.24
2	C	113	LYS	CA-CB	-7.77	1.39	1.53
2	G	104	PHE	CG-CD1	-7.77	1.22	1.38
3	B	102	ARG	NE-CZ	7.76	1.41	1.33
2	G	192	TYR	CE2-CZ	-7.76	1.19	1.38
3	D	210	LYS	N-CA	-7.76	1.36	1.46
2	G	159	SER	N-CA	-7.76	1.36	1.46
3	B	198	VAL	CA-CB	-7.76	1.44	1.53
2	G	126	PRO	CA-C	-7.76	1.41	1.52
3	B	184	SER	N-CA	7.76	1.56	1.46
2	C	181	MET	CA-C	7.76	1.62	1.52
2	E	139	VAL	C-O	-7.76	1.14	1.24
2	G	104	PHE	CA-CB	7.76	1.66	1.53
3	H	187	THR	C-O	-7.76	1.14	1.24
3	F	193	TRP	C-N	-7.76	1.19	1.34
2	C	184	THR	CA-CB	-7.75	1.41	1.53
4	N	26	ASN	CA-CB	-7.75	1.41	1.53
4	N	27	LEU	N-CA	-7.75	1.36	1.47
2	G	141	PHE	CG-CD2	7.75	1.55	1.38
3	H	120	LYS	C-O	-7.75	1.14	1.24
2	A	193	GLU	CA-C	7.75	1.63	1.52
3	F	131	PRO	CG-CD	7.75	1.77	1.50
3	H	122	THR	CA-CB	-7.75	1.40	1.53
2	C	183	SER	CA-C	7.74	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	H	95	PHE	CE1-CZ	-7.74	1.15	1.38
2	E	205	LYS	C-O	-7.74	1.12	1.24
2	G	56	TRP	CG-CD2	-7.74	1.29	1.43
2	G	110	LEU	C-O	-7.73	1.09	1.23
2	C	85	GLN	C-O	-7.73	1.16	1.24
2	E	172	GLN	CA-C	7.73	1.63	1.52
3	H	106	ASP	C-N	7.73	1.43	1.33
2	G	164	GLY	CA-C	7.72	1.62	1.51
2	G	111	GLU	CA-CB	7.72	1.66	1.53
3	B	69	ALA	C-O	-7.72	1.14	1.23
2	C	144	ASN	CA-C	-7.72	1.42	1.52
2	E	204	HIS	CA-CB	-7.72	1.41	1.53
3	F	67	ARG	NE-CZ	-7.71	1.24	1.33
4	L	47	THR	N-CA	-7.71	1.37	1.46
2	A	38	TYR	CD1-CE1	-7.71	1.15	1.38
3	B	6	GLN	C-O	-7.71	1.14	1.23
3	F	35	HIS	CG-CD2	-7.70	1.27	1.35
2	E	89	GLN	CB-CG	7.70	1.75	1.52
2	E	111	GLU	C-O	-7.69	1.13	1.23
3	B	57	GLU	N-CA	-7.69	1.37	1.45
3	D	104	TYR	CA-C	-7.69	1.42	1.52
3	F	157	VAL	N-CA	-7.69	1.36	1.46
3	D	39	GLN	CA-C	7.68	1.61	1.52
3	F	172	PRO	CA-CB	7.68	1.65	1.53
3	B	99	PHE	CG-CD1	-7.68	1.22	1.38
3	H	143	LEU	C-N	-7.68	1.22	1.33
3	D	6	GLN	CD-OE1	-7.68	1.08	1.23
3	F	67	ARG	CA-CB	7.68	1.66	1.53
3	H	143	LEU	CA-CB	-7.68	1.36	1.53
3	H	159	TRP	CA-CB	-7.68	1.41	1.53
2	C	6	GLN	CD-NE2	7.68	1.49	1.33
3	H	100	LEU	CA-C	7.67	1.63	1.53
2	G	93	TYR	CD2-CE2	-7.67	1.15	1.38
4	L	71	GLY	C-O	7.67	1.34	1.23
3	B	93	THR	CA-CB	-7.67	1.41	1.53
2	E	72	GLY	CA-C	7.67	1.62	1.52
3	B	146	LEU	C-O	-7.66	1.15	1.24
2	A	163	ASN	CA-CB	7.66	1.63	1.53
4	L	60	VAL	CA-C	7.65	1.62	1.52
3	D	127	TYR	CE2-CZ	-7.65	1.19	1.38
3	D	182	LEU	CA-C	-7.64	1.45	1.53
4	N	79	PHE	C-O	7.64	1.33	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	128	SER	N-CA	7.64	1.55	1.46
2	C	172	GLN	CD-OE1	7.64	1.38	1.23
2	A	38	TYR	CB-CG	7.64	1.68	1.51
2	E	99	ILE	C-N	-7.63	1.24	1.33
3	B	175	LEU	N-CA	-7.63	1.35	1.46
3	B	199	THR	C-O	-7.63	1.15	1.24
4	N	61	ASN	CA-C	7.63	1.62	1.52
2	G	71	ARG	CG-CD	7.63	1.75	1.52
2	E	161	ARG	CA-C	7.63	1.61	1.52
4	L	70	ASP	CA-C	-7.62	1.42	1.52
3	B	38	ASN	C-O	7.62	1.34	1.23
3	B	94	TYR	CD2-CE2	-7.62	1.15	1.38
4	L	47	THR	CA-C	-7.62	1.43	1.52
3	D	61	ALA	N-CA	-7.62	1.35	1.45
3	H	169	HIS	CA-CB	7.62	1.65	1.53
2	G	181	MET	CB-CG	-7.62	1.29	1.52
2	E	154	TRP	CA-CB	-7.62	1.41	1.53
2	C	165	VAL	C-O	7.62	1.33	1.24
3	D	113	THR	C-O	-7.62	1.14	1.24
2	A	201	GLU	N-CA	-7.61	1.36	1.46
3	D	117	SER	C-O	-7.61	1.15	1.24
2	E	186	THR	CA-C	-7.61	1.43	1.52
3	F	39	GLN	CD-NE2	-7.60	1.17	1.33
3	H	107	VAL	CA-C	7.60	1.62	1.52
3	H	131	PRO	C-O	-7.60	1.14	1.24
3	B	90	ASP	CB-CG	-7.60	1.33	1.52
2	C	110	LEU	N-CA	7.60	1.55	1.46
1	Q	17	ARG	N-CA	7.60	1.56	1.46
3	H	196	GLU	CA-CB	7.60	1.65	1.53
1	P	39	ARG	CA-CB	7.60	1.66	1.53
4	L	61	ASN	CB-CG	-7.59	1.33	1.52
2	A	176	ASP	CA-CB	-7.59	1.42	1.54
2	E	40	ALA	CA-CB	-7.59	1.34	1.54
1	S	26	GLY	C-O	-7.58	1.13	1.23
4	O	46	ALA	CA-C	7.58	1.61	1.52
3	B	123	PRO	C-N	-7.58	1.23	1.33
3	F	120	LYS	CA-C	-7.58	1.43	1.52
2	G	76	ASP	N-CA	7.58	1.55	1.46
3	B	95	PHE	CG-CD2	-7.57	1.23	1.38
3	D	99	PHE	CE1-CZ	7.57	1.61	1.38
3	D	36	TRP	C-N	-7.57	1.23	1.33
1	Q	18	ARG	NE-CZ	7.57	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	25	SER	C-N	-7.57	1.23	1.33
2	A	66	ASP	CA-CB	7.57	1.66	1.53
2	E	189	LYS	CA-CB	7.57	1.66	1.53
4	O	25	VAL	N-CA	7.57	1.56	1.46
3	F	151	PHE	CG-CD1	-7.56	1.23	1.38
2	A	19	VAL	CA-C	7.56	1.61	1.52
2	C	16	GLY	C-O	7.56	1.34	1.23
3	F	109	GLY	C-N	-7.56	1.23	1.33
2	C	194	ARG	C-O	7.56	1.33	1.24
3	D	102	ARG	CD-NE	7.56	1.56	1.46
2	A	149	ASP	C-O	7.55	1.33	1.24
2	C	131	LEU	CA-C	-7.55	1.42	1.52
3	F	174	VAL	CB-CG1	-7.55	1.27	1.52
3	H	86	LEU	CG-CD1	7.55	1.77	1.52
3	H	84	ASN	N-CA	-7.55	1.35	1.45
3	B	64	PHE	C-O	-7.55	1.14	1.24
2	C	9	SER	C-O	7.55	1.32	1.23
3	D	157	VAL	C-N	7.55	1.43	1.33
3	H	98	ARG	C-N	-7.55	1.23	1.33
3	D	124	PRO	CG-CD	7.55	1.76	1.50
3	B	127	TYR	C-O	-7.54	1.17	1.24
2	E	143	ASN	CG-OD1	-7.54	1.09	1.23
2	G	108	THR	CA-C	-7.54	1.43	1.52
2	C	165	VAL	CB-CG1	7.53	1.77	1.52
4	N	67	ASP	CB-CG	-7.53	1.33	1.52
3	H	160	ASN	N-CA	7.53	1.56	1.46
2	C	84	VAL	N-CA	7.53	1.55	1.46
2	A	48	GLN	CA-CB	7.53	1.66	1.53
2	A	31	ASN	CA-C	-7.53	1.43	1.52
3	B	192	THR	CA-C	7.53	1.62	1.52
2	A	107	GLY	CA-C	7.52	1.62	1.51
2	A	141	PHE	N-CA	-7.52	1.36	1.46
2	C	33	ARG	CD-NE	7.52	1.56	1.46
4	M	81	GLY	C-O	7.52	1.38	1.23
2	A	115	ALA	C-N	-7.52	1.23	1.33
4	L	39	PHE	CD2-CE2	-7.52	1.16	1.38
3	F	168	VAL	C-O	7.52	1.31	1.24
2	E	187	LEU	CA-C	7.51	1.62	1.52
3	B	159	TRP	CZ2-CH2	7.51	1.51	1.37
2	E	145	PHE	CE2-CZ	-7.51	1.16	1.38
3	F	131	PRO	C-O	-7.51	1.14	1.23
2	G	108	THR	N-CA	-7.50	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	38	TYR	CA-C	-7.50	1.42	1.52
2	G	193	GLU	CB-CG	7.50	1.75	1.52
3	H	161	SER	N-CA	-7.50	1.36	1.46
2	G	54	ILE	CG1-CD1	7.50	1.81	1.51
2	E	215	PHE	CA-C	-7.50	1.43	1.52
2	G	1	ASP	C-N	-7.50	1.24	1.33
2	C	64	VAL	CA-CB	7.50	1.63	1.54
3	D	83	ILE	CA-C	-7.50	1.43	1.52
3	H	5	VAL	CA-C	-7.49	1.43	1.52
4	L	20	GLU	N-CA	7.48	1.55	1.46
3	D	79	ALA	CA-C	-7.48	1.43	1.52
2	C	127	SER	CA-CB	-7.48	1.41	1.53
3	H	216	VAL	C-O	-7.48	1.15	1.24
3	D	22	CYS	CA-C	-7.48	1.45	1.53
3	F	85	SER	CA-C	-7.48	1.43	1.53
3	B	1	GLN	C-N	7.47	1.43	1.33
3	D	12	LYS	C-O	7.47	1.34	1.23
3	F	95	PHE	CA-C	-7.47	1.43	1.52
3	F	162	GLY	C-O	-7.47	1.13	1.24
2	E	11	LEU	CG-CD1	7.47	1.77	1.52
3	F	117	SER	C-N	7.47	1.43	1.33
3	H	213	LYS	C-O	-7.47	1.15	1.24
3	D	103	GLN	N-CA	7.46	1.55	1.46
2	A	204	HIS	C-O	7.46	1.33	1.24
3	B	173	ALA	N-CA	7.46	1.56	1.45
4	L	79	PHE	CE2-CZ	-7.46	1.16	1.38
2	C	82	SER	C-N	-7.46	1.23	1.33
4	N	48	ALA	N-CA	7.46	1.55	1.45
3	F	91	THR	N-CA	7.46	1.56	1.46
3	F	19	LYS	CG-CD	7.46	1.74	1.52
2	C	21	MET	SD-CE	-7.46	1.60	1.79
2	A	96	GLN	CB-CG	7.45	1.74	1.52
2	C	119	PRO	C-O	-7.45	1.14	1.23
2	E	142	LEU	CG-CD1	-7.45	1.27	1.52
3	D	84	ASN	CA-C	-7.45	1.45	1.53
4	M	29	PHE	CE1-CZ	7.45	1.61	1.38
3	F	13	LYS	C-O	-7.45	1.15	1.23
4	N	33	LYS	CD-CE	7.45	1.74	1.52
2	C	122	SER	CA-CB	-7.45	1.40	1.53
1	S	25	PRO	CA-C	7.45	1.62	1.52
4	M	57	HIS	C-O	-7.45	1.15	1.24
2	C	88	ASP	C-N	7.44	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	G	62	SER	CA-C	7.44	1.62	1.52
2	G	112	LEU	CG-CD2	7.44	1.77	1.52
4	M	62	GLY	CA-C	-7.43	1.41	1.51
2	C	138	VAL	CB-CG2	-7.43	1.28	1.52
2	G	199	THR	N-CA	-7.43	1.36	1.46
3	F	157	VAL	C-N	-7.43	1.20	1.33
2	C	41	TRP	CG-CD1	-7.43	1.18	1.36
2	C	184	THR	CA-C	7.43	1.61	1.52
2	E	180	SER	C-N	-7.43	1.24	1.33
4	O	47	THR	CA-C	7.43	1.62	1.52
2	G	156	ILE	CB-CG2	7.42	1.77	1.52
2	G	22	SER	CA-C	-7.42	1.43	1.52
1	P	20	GLN	CA-CB	7.42	1.66	1.53
2	A	189	LYS	C-O	-7.42	1.15	1.24
2	G	193	GLU	CG-CD	7.42	1.70	1.52
3	H	95	PHE	CG-CD2	-7.42	1.23	1.38
1	Q	23	LYS	CD-CE	7.42	1.74	1.52
3	B	160	ASN	N-CA	-7.42	1.35	1.46
2	E	71	ARG	CB-CG	7.42	1.74	1.52
3	F	208	SER	C-O	-7.42	1.14	1.24
3	D	173	ALA	CA-C	-7.42	1.43	1.52
3	H	127	TYR	CA-CB	-7.42	1.39	1.54
3	D	42	GLY	CA-C	-7.41	1.42	1.51
2	E	53	LEU	CB-CG	7.41	1.68	1.53
3	H	209	THR	N-CA	7.41	1.55	1.45
3	F	33	SER	CB-OG	7.41	1.56	1.42
2	C	70	GLY	N-CA	7.41	1.54	1.45
3	F	151	PHE	CG-CD2	-7.41	1.23	1.38
3	B	184	SER	CA-C	-7.40	1.42	1.52
2	E	27	GLN	C-N	-7.40	1.23	1.33
3	B	206	ALA	N-CA	7.40	1.55	1.46
2	C	215	PHE	CA-CB	7.40	1.66	1.53
3	F	90	ASP	CG-OD1	7.40	1.39	1.25
3	D	20	ILE	CA-CB	7.40	1.64	1.54
2	E	141	PHE	CA-CB	7.40	1.63	1.52
2	A	16	GLY	C-O	7.40	1.34	1.24
3	B	95	PHE	CA-CB	7.40	1.66	1.53
4	M	62	GLY	C-O	-7.40	1.14	1.23
4	N	55	ALA	C-N	7.40	1.42	1.33
3	B	180	TYR	N-CA	7.39	1.55	1.46
2	A	146	TYR	CA-C	7.39	1.61	1.52
2	C	27	GLN	CD-OE1	7.39	1.37	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	167	ASN	CA-C	-7.39	1.43	1.52
1	Q	12	LYS	CD-CE	7.39	1.74	1.52
3	F	1	GLN	CA-CB	7.39	1.68	1.53
3	B	147	VAL	N-CA	-7.39	1.37	1.46
3	F	165	SER	CB-OG	7.38	1.56	1.42
3	D	57	GLU	CG-CD	7.38	1.70	1.52
2	E	217	ARG	NE-CZ	7.38	1.41	1.33
3	D	12	LYS	CA-C	7.38	1.62	1.52
2	A	42	TYR	C-O	-7.37	1.15	1.24
1	P	24	PHE	CA-C	7.37	1.62	1.52
3	B	114	VAL	N-CA	7.37	1.55	1.46
3	B	116	VAL	CB-CG2	-7.37	1.28	1.52
3	H	70	PHE	CD1-CE1	-7.37	1.16	1.38
3	B	111	GLY	N-CA	7.37	1.54	1.45
2	A	195	HIS	CA-C	7.36	1.62	1.52
4	L	39	PHE	CG-CD1	-7.36	1.23	1.38
3	H	54	GLU	CA-CB	7.36	1.66	1.53
3	H	119	ALA	CA-CB	-7.36	1.41	1.53
2	G	210	PRO	C-O	-7.36	1.14	1.24
2	G	207	SER	CA-CB	7.36	1.66	1.53
4	L	17	PRO	C-O	7.36	1.38	1.23
2	C	27	GLN	C-O	7.36	1.33	1.24
2	E	89	GLN	C-O	7.36	1.33	1.24
3	D	124	PRO	CA-C	-7.35	1.42	1.52
3	D	202	VAL	N-CA	-7.35	1.36	1.46
2	E	24	LYS	CD-CE	7.35	1.74	1.52
3	H	57	GLU	CA-CB	7.35	1.69	1.54
3	B	120	LYS	N-CA	-7.35	1.37	1.46
2	C	93	TYR	CA-C	-7.34	1.43	1.52
2	G	43	GLN	C-O	7.34	1.32	1.24
2	G	153	LYS	CG-CD	7.34	1.74	1.52
3	B	85	SER	CA-C	7.34	1.62	1.52
3	B	151	PHE	CA-C	-7.34	1.43	1.52
2	C	216	ASN	CA-C	-7.34	1.43	1.52
1	P	20	GLN	CA-C	7.33	1.62	1.52
2	E	15	ALA	CA-CB	-7.33	1.42	1.53
3	F	55	THR	N-CA	-7.33	1.36	1.46
4	O	55	ALA	C-N	-7.33	1.23	1.33
2	A	124	PHE	CA-C	-7.33	1.45	1.52
3	D	37	VAL	C-O	-7.33	1.16	1.24
3	D	127	TYR	C-O	-7.33	1.14	1.24
3	B	187	THR	CA-CB	7.33	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	184	THR	CA-CB	-7.33	1.43	1.53
3	B	18	VAL	CA-C	-7.32	1.43	1.52
2	C	161	ARG	NE-CZ	7.32	1.41	1.33
2	E	48	GLN	C-O	-7.32	1.14	1.23
3	F	93	THR	N-CA	-7.32	1.37	1.45
3	F	150	TYR	CD1-CE1	-7.32	1.16	1.38
3	B	104	TYR	CG-CD1	-7.32	1.24	1.39
3	B	179	LEU	CG-CD1	7.31	1.76	1.52
2	G	169	TRP	CD2-CE3	-7.31	1.28	1.40
2	G	205	LYS	N-CA	-7.31	1.36	1.46
3	D	3	GLN	CB-CG	7.31	1.74	1.52
3	D	159	TRP	CE2-CZ2	-7.31	1.24	1.39
3	H	50	TRP	CB-CG	7.31	1.73	1.50
4	O	63	GLU	CA-C	7.31	1.62	1.52
2	A	13	VAL	CA-CB	-7.31	1.44	1.54
3	D	12	LYS	CD-CE	7.31	1.74	1.52
4	M	33	LYS	CG-CD	7.31	1.74	1.52
2	E	121	VAL	N-CA	-7.31	1.37	1.46
3	H	182	LEU	C-O	-7.31	1.15	1.23
2	E	98	TYR	C-N	7.30	1.41	1.33
4	O	32	GLY	C-O	7.30	1.33	1.23
2	C	176	ASP	N-CA	-7.30	1.37	1.46
2	C	206	THR	CB-CG2	7.30	1.76	1.52
2	E	158	GLY	C-N	-7.30	1.23	1.33
4	M	29	PHE	CA-CB	-7.29	1.43	1.53
3	B	93	THR	C-O	7.29	1.32	1.23
3	F	59	THR	CA-C	7.29	1.62	1.52
3	F	196	GLU	CD-OE1	7.29	1.39	1.25
2	A	93	TYR	N-CA	7.29	1.55	1.45
3	B	105	PHE	CE1-CZ	-7.29	1.16	1.38
4	L	44	GLU	C-O	7.29	1.33	1.24
2	A	29	LEU	CA-CB	-7.28	1.43	1.54
4	O	35	GLN	CD-NE2	7.28	1.48	1.33
3	H	8	GLY	C-O	-7.28	1.14	1.24
2	E	150	ILE	CA-C	7.27	1.61	1.52
3	F	174	VAL	CA-CB	-7.27	1.42	1.54
3	D	170	THR	CA-CB	7.27	1.63	1.53
2	E	50	PRO	CA-C	-7.27	1.42	1.52
2	E	129	GLU	CG-CD	7.27	1.70	1.52
3	F	150	TYR	CE1-CZ	-7.27	1.20	1.38
3	B	1	GLN	CB-CG	7.27	1.74	1.52
3	B	168	VAL	C-O	-7.26	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	G	144	ASN	CA-CB	7.26	1.65	1.53
4	O	76	ASN	CB-CG	7.26	1.70	1.52
2	A	11	LEU	CG-CD2	-7.26	1.28	1.52
2	A	36	LYS	C-O	-7.26	1.15	1.23
4	M	50	ALA	CA-C	7.26	1.62	1.52
3	H	181	THR	CA-C	-7.26	1.43	1.52
2	E	160	GLU	CD-OE1	7.25	1.39	1.25
2	A	54	ILE	N-CA	-7.25	1.38	1.46
3	D	83	ILE	CB-CG2	-7.25	1.28	1.52
3	F	131	PRO	N-CA	7.25	1.55	1.47
2	C	32	SER	C-O	7.25	1.32	1.24
3	D	161	SER	C-O	-7.25	1.14	1.24
4	L	23	ILE	CB-CG1	7.25	1.68	1.53
4	M	61	ASN	C-N	-7.25	1.23	1.33
2	G	96	GLN	CD-NE2	-7.25	1.18	1.33
3	D	54	GLU	N-CA	7.24	1.55	1.46
2	E	212	VAL	C-O	-7.24	1.16	1.24
3	F	97	ALA	N-CA	-7.24	1.36	1.46
3	F	188	VAL	CB-CG2	-7.24	1.28	1.52
3	H	29	PHE	N-CA	7.24	1.55	1.46
3	D	12	LYS	CG-CD	7.24	1.74	1.52
3	D	22	CYS	C-O	7.24	1.32	1.23
2	G	167	ASN	CG-OD1	7.24	1.37	1.23
2	C	104	PHE	N-CA	-7.23	1.35	1.45
4	N	63	GLU	C-O	7.23	1.32	1.24
3	D	149	GLY	CA-C	-7.23	1.41	1.51
2	C	183	SER	CA-CB	7.22	1.65	1.53
2	G	23	CYS	CA-C	-7.22	1.43	1.52
4	O	79	PHE	CE2-CZ	7.22	1.60	1.38
3	B	151	PHE	CE2-CZ	-7.22	1.17	1.38
3	D	148	LYS	CA-CB	-7.22	1.43	1.53
2	G	54	ILE	C-O	-7.22	1.14	1.24
3	H	85	SER	N-CA	7.22	1.55	1.46
2	E	60	ARG	CG-CD	7.22	1.74	1.52
1	Q	22	VAL	N-CA	7.21	1.55	1.46
3	F	101	LEU	CG-CD2	7.21	1.76	1.52
2	A	147	PRO	CB-CG	-7.21	1.23	1.51
3	D	59	THR	C-O	7.21	1.32	1.24
2	E	115	ALA	CA-C	7.21	1.62	1.52
3	D	90	ASP	CA-CB	-7.20	1.43	1.53
3	D	127	TYR	CG-CD1	-7.20	1.24	1.39
3	B	27	TYR	CA-C	-7.20	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	O	69	GLU	CA-C	-7.20	1.43	1.52
1	Q	25	PRO	N-CD	7.20	1.57	1.47
3	B	43	LYS	N-CA	-7.19	1.35	1.45
3	H	48	MET	CA-C	7.19	1.62	1.52
1	S	24	PHE	CA-C	7.19	1.61	1.52
3	H	107	VAL	C-O	-7.19	1.16	1.24
2	C	202	ALA	CA-CB	-7.19	1.44	1.53
3	F	211	VAL	C-O	-7.19	1.15	1.24
3	D	73	GLU	CA-C	-7.18	1.43	1.52
4	O	66	ALA	C-O	-7.18	1.15	1.23
2	A	44	GLN	C-O	-7.18	1.15	1.23
3	D	176	GLN	CG-CD	7.18	1.70	1.52
2	E	7	SER	C-N	-7.18	1.20	1.34
2	G	86	ALA	CA-C	7.18	1.62	1.52
3	H	79	ALA	CA-C	-7.18	1.43	1.52
2	E	106	ALA	CA-C	7.18	1.62	1.52
4	L	38	GLU	CD-OE2	-7.17	1.11	1.25
2	E	74	GLY	C-O	-7.17	1.14	1.23
3	B	167	GLY	CA-C	7.17	1.61	1.51
3	H	127	TYR	CA-C	-7.17	1.47	1.52
2	C	43	GLN	CG-CD	7.17	1.70	1.52
2	E	85	GLN	CA-C	7.17	1.61	1.52
3	F	126	VAL	N-CA	7.17	1.55	1.46
3	F	189	PRO	CB-CG	7.17	1.85	1.49
2	A	43	GLN	CA-CB	7.16	1.63	1.53
3	B	88	ASN	N-CA	7.16	1.55	1.46
2	C	93	TYR	CA-CB	-7.16	1.43	1.53
2	E	119	PRO	CG-CD	-7.16	1.26	1.50
3	F	24	ALA	CA-CB	7.16	1.63	1.53
4	N	44	GLU	CA-C	-7.16	1.43	1.52
3	B	147	VAL	CA-CB	-7.16	1.45	1.53
4	N	29	PHE	N-CA	-7.16	1.36	1.45
3	H	98	ARG	CA-C	7.16	1.61	1.53
2	E	9	SER	C-O	7.16	1.32	1.24
4	O	75	MET	CA-CB	-7.15	1.45	1.53
2	C	105	GLY	C-O	-7.15	1.15	1.23
2	E	3	VAL	CA-CB	-7.15	1.44	1.54
3	H	101	LEU	CB-CG	7.15	1.67	1.53
3	D	140	MET	CG-SD	7.15	1.98	1.80
3	F	83	ILE	CA-CB	-7.15	1.45	1.54
2	A	175	LYS	N-CA	-7.14	1.38	1.46
3	B	30	THR	C-O	-7.14	1.12	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	170	THR	CA-CB	-7.14	1.41	1.53
3	D	133	SER	C-O	7.14	1.32	1.24
1	S	17	ARG	CA-CB	7.14	1.62	1.54
2	E	204	HIS	C-O	7.14	1.33	1.23
2	A	85	GLN	C-N	-7.13	1.24	1.33
2	G	49	SER	CA-C	-7.13	1.43	1.52
2	G	139	VAL	N-CA	-7.13	1.37	1.46
1	Q	13	ARG	CB-CG	7.13	1.73	1.52
2	C	189	LYS	CG-CD	-7.13	1.31	1.52
3	F	117	SER	C-O	7.12	1.31	1.24
3	F	190	SER	N-CA	7.12	1.55	1.46
2	E	114	ARG	CB-CG	7.12	1.73	1.52
1	Q	7	PRO	CA-CB	7.12	1.63	1.53
4	M	61	ASN	CB-CG	7.12	1.69	1.52
4	N	36	THR	N-CA	-7.12	1.37	1.46
3	H	84	ASN	CA-C	-7.12	1.43	1.53
2	A	121	VAL	N-CA	7.12	1.54	1.46
4	L	28	ILE	CB-CG2	7.12	1.76	1.52
3	D	208	SER	CA-C	-7.12	1.40	1.53
3	F	108	TRP	CD2-CE2	-7.12	1.29	1.41
4	N	66	ALA	C-O	7.12	1.34	1.23
2	G	26	SER	CB-OG	-7.12	1.27	1.42
2	E	29	LEU	C-O	-7.11	1.14	1.24
2	E	141	PHE	CD1-CE1	-7.11	1.17	1.38
4	N	23	ILE	CA-CB	-7.11	1.44	1.54
3	D	153	GLU	C-O	7.11	1.33	1.24
3	F	34	MET	CA-C	-7.11	1.43	1.52
3	D	15	GLY	C-O	-7.11	1.14	1.23
3	B	157	VAL	CA-C	7.11	1.60	1.52
2	C	87	GLU	N-CA	7.11	1.55	1.46
4	O	37	ALA	CA-CB	-7.10	1.43	1.53
3	H	95	PHE	CG-CD1	-7.10	1.24	1.38
3	H	174	VAL	C-N	-7.10	1.23	1.33
2	E	104	PHE	CA-CB	-7.10	1.42	1.53
3	D	151	PHE	CB-CG	7.10	1.67	1.50
2	G	189	LYS	CA-C	-7.09	1.43	1.52
2	A	38	TYR	CZ-OH	7.09	1.52	1.38
3	D	205	PRO	C-O	-7.09	1.14	1.24
2	E	78	THR	N-CA	7.09	1.54	1.46
4	N	37	ALA	C-O	-7.09	1.15	1.23
2	E	8	PRO	C-N	7.09	1.42	1.33
2	E	80	THR	C-O	7.09	1.32	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	H	125	SER	CA-CB	7.09	1.62	1.53
4	L	29	PHE	C-O	7.08	1.33	1.23
4	N	21	VAL	CA-C	7.08	1.61	1.52
3	B	194	PRO	N-CD	-7.08	1.38	1.47
2	G	14	SER	CA-CB	-7.08	1.42	1.53
2	C	54	ILE	N-CA	-7.08	1.37	1.46
3	D	4	LEU	C-O	-7.08	1.15	1.23
3	F	3	GLN	N-CA	-7.08	1.36	1.45
2	A	56	TRP	C-N	-7.07	1.23	1.33
3	B	215	ILE	CB-CG1	-7.07	1.39	1.53
2	E	92	TYR	CA-C	7.07	1.60	1.52
2	G	218	ASN	CA-CB	7.07	1.65	1.53
3	H	201	ASN	CA-C	-7.07	1.43	1.52
3	D	156	THR	CA-C	7.07	1.62	1.53
2	E	176	ASP	C-N	-7.07	1.23	1.33
2	C	117	ALA	CA-C	7.06	1.60	1.52
3	F	27	TYR	N-CA	-7.06	1.37	1.45
2	C	99	ILE	C-N	-7.06	1.25	1.33
3	D	53	THR	N-CA	-7.06	1.37	1.46
3	F	119	ALA	N-CA	7.06	1.55	1.46
3	H	211	VAL	CA-C	-7.06	1.43	1.52
4	N	69	GLU	N-CA	-7.06	1.37	1.46
2	A	174	SER	CA-C	7.06	1.62	1.52
2	E	198	TYR	CA-CB	7.06	1.62	1.53
2	G	127	SER	C-O	-7.06	1.15	1.24
3	B	137	THR	C-N	7.06	1.40	1.33
3	H	167	GLY	C-O	-7.06	1.14	1.23
2	C	179	TYR	CG-CD2	-7.06	1.24	1.39
3	B	128	PRO	N-CA	-7.05	1.38	1.47
2	E	170	THR	CB-CG2	-7.05	1.29	1.52
3	B	65	LYS	N-CA	-7.05	1.37	1.46
2	E	37	ASN	N-CA	-7.05	1.37	1.46
4	N	40	LYS	CA-C	7.05	1.61	1.52
3	B	36	TRP	CA-C	7.04	1.60	1.52
2	E	194	ARG	CZ-NH1	7.04	1.42	1.32
2	A	10	SER	C-N	-7.04	1.23	1.33
2	A	20	THR	N-CA	-7.04	1.38	1.46
4	M	36	THR	C-O	7.04	1.33	1.23
2	E	43	GLN	C-O	7.04	1.32	1.23
2	C	33	ARG	CG-CD	7.04	1.73	1.52
3	F	138	ASN	CA-C	7.04	1.62	1.52
4	N	54	ALA	C-N	7.03	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	160	GLU	CG-CD	7.03	1.69	1.52
3	B	92	ALA	N-CA	-7.03	1.37	1.46
3	F	33	SER	C-O	7.03	1.33	1.23
2	A	33	ARG	CZ-NH2	7.03	1.42	1.33
3	D	36	TRP	CG-CD1	-7.03	1.19	1.36
3	H	46	ASN	CB-CG	7.03	1.69	1.52
4	L	69	GLU	CA-C	7.03	1.61	1.52
3	F	119	ALA	CA-CB	-7.02	1.41	1.53
1	Q	28	GLY	C-O	7.02	1.33	1.23
3	F	104	TYR	N-CA	-7.02	1.35	1.46
2	C	96	GLN	CA-C	7.02	1.60	1.52
3	B	193	TRP	CG-CD2	-7.02	1.31	1.43
2	C	18	LYS	CB-CG	7.02	1.73	1.52
3	B	112	THR	CA-C	-7.02	1.44	1.52
3	B	140	MET	CB-CG	-7.02	1.31	1.52
3	D	106	ASP	N-CA	7.02	1.55	1.46
3	F	100	LEU	CG-CD2	7.01	1.75	1.52
4	M	77	ILE	N-CA	-7.01	1.37	1.46
1	S	44	LEU	CA-C	7.01	1.62	1.52
3	D	166	SER	N-CA	-7.01	1.37	1.45
1	Q	12	LYS	CB-CG	-7.01	1.31	1.52
3	F	218	ARG	CG-CD	7.01	1.73	1.52
4	L	38	GLU	N-CA	-7.01	1.37	1.46
2	E	99	ILE	CB-CG2	-7.01	1.29	1.52
4	N	37	ALA	CA-CB	7.01	1.67	1.54
2	A	146	TYR	CZ-OH	7.00	1.52	1.38
3	D	138	ASN	CA-C	-7.00	1.45	1.53
3	H	65	LYS	CD-CE	7.00	1.73	1.52
2	G	46	PRO	N-CD	-7.00	1.38	1.47
2	A	31	ASN	N-CA	-7.00	1.37	1.46
2	A	147	PRO	N-CD	-6.99	1.38	1.47
3	D	11	LEU	CG-CD1	-6.99	1.29	1.52
2	E	107	GLY	CA-C	6.99	1.59	1.52
2	A	95	LYS	CA-C	-6.99	1.44	1.52
3	D	125	SER	N-CA	-6.99	1.36	1.45
2	E	145	PHE	CE1-CZ	-6.99	1.17	1.38
2	A	108	THR	C-O	6.99	1.32	1.24
1	Q	35	TYR	CG-CD2	6.99	1.54	1.39
2	A	165	VAL	CA-CB	-6.99	1.45	1.54
2	E	207	SER	C-O	6.99	1.32	1.23
2	A	160	GLU	CB-CG	6.98	1.73	1.52
4	M	24	LYS	CG-CD	6.98	1.73	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	65	PRO	C-O	-6.98	1.14	1.24
2	E	167	ASN	C-O	6.98	1.33	1.23
3	H	95	PHE	CE2-CZ	-6.98	1.17	1.38
4	N	53	TYR	CG-CD1	-6.98	1.24	1.39
2	C	67	ARG	C-N	-6.97	1.24	1.33
4	N	62	GLY	N-CA	6.97	1.55	1.45
3	H	30	THR	CA-C	-6.97	1.43	1.52
4	L	36	THR	CA-CB	-6.97	1.41	1.53
2	G	156	ILE	C-O	-6.97	1.16	1.24
2	A	130	GLN	CB-CG	6.97	1.73	1.52
3	D	24	ALA	C-N	6.97	1.42	1.33
2	E	147	PRO	N-CA	-6.97	1.35	1.47
2	A	161	ARG	CZ-NH1	6.97	1.42	1.32
3	H	191	SER	N-CA	-6.97	1.37	1.46
3	H	110	ALA	CA-CB	6.96	1.66	1.53
2	G	125	PRO	CA-CB	6.96	1.63	1.54
2	A	109	LYS	CA-C	6.96	1.61	1.52
3	H	169	HIS	C-O	6.96	1.32	1.24
2	E	176	ASP	CA-CB	6.96	1.65	1.53
2	G	216	ASN	CA-CB	-6.96	1.43	1.53
3	B	217	PRO	CA-C	-6.95	1.42	1.52
4	M	45	GLU	CD-OE2	6.95	1.38	1.25
3	F	14	PRO	N-CA	-6.95	1.38	1.47
3	B	12	LYS	CB-CG	6.95	1.73	1.52
2	C	187	LEU	CA-CB	-6.95	1.41	1.53
1	Q	37	LEU	CA-CB	6.95	1.64	1.53
2	E	98	TYR	CE2-CZ	-6.95	1.21	1.38
4	O	78	LYS	CD-CE	6.95	1.73	1.52
1	P	26	GLY	C-N	6.95	1.43	1.33
4	O	59	LYS	CG-CD	6.95	1.73	1.52
2	A	44	GLN	CA-C	-6.94	1.44	1.53
3	B	140	MET	C-O	6.94	1.32	1.24
2	C	30	LEU	CG-CD1	6.94	1.75	1.52
3	D	102	ARG	CZ-NH1	6.94	1.42	1.32
3	H	162	GLY	C-O	6.94	1.35	1.24
2	A	114	ARG	CZ-NH2	6.94	1.42	1.33
3	D	105	PHE	CA-C	-6.94	1.44	1.52
1	Q	43	ARG	CB-CG	6.94	1.73	1.52
2	G	4	MET	CA-C	6.94	1.61	1.52
2	G	64	VAL	CA-CB	-6.94	1.45	1.54
2	A	129	GLU	N-CA	-6.93	1.37	1.46
4	M	60	VAL	C-O	-6.93	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	107	VAL	C-O	-6.93	1.17	1.24
3	D	103	GLN	CB-CG	6.93	1.73	1.52
1	Q	10	LYS	CE-NZ	6.92	1.70	1.49
3	H	192	THR	C-O	-6.92	1.13	1.24
2	E	156	ILE	CA-C	6.92	1.60	1.52
2	A	25	SER	CA-C	6.92	1.62	1.52
2	A	36	LYS	N-CA	-6.92	1.37	1.46
3	B	126	VAL	CB-CG2	6.92	1.75	1.52
2	C	129	GLU	CD-OE2	6.92	1.38	1.25
3	F	40	ALA	CA-C	-6.92	1.44	1.52
4	L	59	LYS	CG-CD	6.92	1.73	1.52
3	F	181	THR	N-CA	6.92	1.54	1.45
1	S	29	GLN	CD-OE1	6.92	1.36	1.23
3	D	41	PRO	CA-CB	6.91	1.63	1.53
2	G	14	SER	C-O	-6.91	1.15	1.23
3	F	8	GLY	C-O	6.90	1.35	1.24
3	F	58	PRO	N-CA	-6.90	1.38	1.47
3	H	180	TYR	CG-CD2	6.90	1.53	1.39
2	E	162	GLN	CA-C	6.90	1.60	1.53
2	C	121	VAL	N-CA	-6.90	1.37	1.46
3	H	36	TRP	CG-CD1	-6.90	1.19	1.36
2	A	80	THR	CA-CB	-6.90	1.40	1.53
2	A	91	VAL	C-O	6.89	1.31	1.24
2	A	186	THR	N-CA	-6.89	1.37	1.45
2	A	196	ASN	CA-C	6.89	1.61	1.52
2	E	141	PHE	CA-C	6.89	1.60	1.53
1	Q	7	PRO	CA-C	6.89	1.62	1.52
3	F	165	SER	CA-C	-6.89	1.43	1.52
1	P	37	LEU	CA-CB	6.89	1.64	1.53
3	F	57	GLU	CA-CB	6.89	1.64	1.53
3	D	169	HIS	C-O	-6.89	1.15	1.24
4	N	74	HIS	C-O	6.89	1.31	1.23
2	A	98	TYR	C-O	6.88	1.32	1.24
2	C	9	SER	C-N	6.88	1.43	1.33
2	A	154	TRP	CD2-CE2	-6.88	1.29	1.41
4	L	68	LEU	C-N	6.88	1.42	1.33
2	C	161	ARG	CZ-NH1	6.88	1.42	1.32
2	C	211	ILE	CB-CG1	6.88	1.67	1.53
2	G	45	LYS	CB-CG	6.88	1.73	1.52
2	G	198	TYR	CG-CD1	-6.88	1.24	1.39
2	A	86	ALA	C-N	-6.88	1.24	1.34
2	A	76	ASP	CA-CB	6.87	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	137	SER	N-CA	-6.87	1.36	1.46
3	F	45	LEU	N-CA	-6.87	1.37	1.45
4	O	62	GLY	C-O	-6.87	1.17	1.23
2	A	133	SER	C-O	-6.87	1.15	1.24
2	C	205	LYS	N-CA	-6.87	1.37	1.46
4	M	35	GLN	CG-CD	6.87	1.69	1.52
3	H	157	VAL	CA-CB	6.87	1.62	1.53
2	E	168	SER	CA-CB	6.86	1.65	1.53
4	N	75	MET	N-CA	6.86	1.54	1.46
3	H	89	GLU	CB-CG	6.86	1.73	1.52
2	A	21	MET	C-O	6.86	1.32	1.23
3	B	195	SER	C-O	-6.86	1.15	1.24
3	D	126	VAL	CA-C	6.86	1.61	1.52
3	D	166	SER	C-N	-6.86	1.24	1.33
3	D	45	LEU	CG-CD2	-6.86	1.29	1.52
3	D	169	HIS	N-CA	6.86	1.54	1.46
4	M	39	PHE	CD1-CE1	-6.86	1.18	1.38
2	G	56	TRP	CD2-CE2	-6.86	1.29	1.41
3	H	118	SER	C-O	6.86	1.32	1.24
2	A	56	TRP	CA-C	-6.86	1.43	1.52
4	M	36	THR	C-N	6.85	1.42	1.33
3	B	90	ASP	CA-C	-6.85	1.43	1.52
3	D	210	LYS	CE-NZ	6.85	1.69	1.49
3	B	44	GLY	C-O	6.85	1.29	1.23
3	D	90	ASP	CG-OD1	-6.85	1.12	1.25
3	H	121	THR	CA-C	6.85	1.61	1.52
3	B	10	GLU	C-O	6.84	1.32	1.23
4	L	52	ARG	CB-CG	6.84	1.73	1.52
3	D	150	TYR	N-CA	6.84	1.54	1.46
3	F	188	VAL	CA-CB	6.84	1.62	1.54
1	S	43	ARG	CD-NE	6.84	1.55	1.46
3	H	68	PHE	CB-CG	-6.84	1.34	1.50
3	D	165	SER	C-O	-6.84	1.15	1.24
2	C	171	ASP	C-O	-6.84	1.15	1.23
3	D	47	TRP	CZ3-CH2	-6.84	1.23	1.40
2	C	76	ASP	CA-CB	6.83	1.69	1.53
3	H	119	ALA	C-O	-6.83	1.15	1.23
3	B	84	ASN	C-O	-6.83	1.15	1.23
3	B	72	LEU	C-N	-6.83	1.25	1.33
3	F	191	SER	CA-C	-6.83	1.43	1.52
3	F	62	ASP	CA-C	-6.83	1.44	1.52
2	A	154	TRP	N-CA	6.83	1.54	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	45	LEU	CG-CD2	-6.83	1.30	1.52
3	F	82	GLN	CD-OE1	6.83	1.36	1.23
2	A	24	LYS	CA-C	-6.83	1.44	1.52
3	H	217	PRO	CA-CB	-6.83	1.45	1.53
4	N	25	VAL	CA-CB	-6.82	1.45	1.54
3	H	175	LEU	CG-CD1	6.82	1.75	1.52
2	C	20	THR	CA-CB	6.82	1.64	1.53
2	E	5	SER	C-O	6.82	1.31	1.24
1	P	37	LEU	CB-CG	6.82	1.67	1.53
2	G	121	VAL	C-O	-6.82	1.17	1.24
3	H	134	ALA	CA-CB	6.82	1.64	1.53
2	E	3	VAL	N-CA	6.82	1.54	1.46
3	F	99	PHE	CD1-CE1	-6.82	1.18	1.38
4	N	39	PHE	CE1-CZ	-6.82	1.18	1.38
4	L	54	ALA	N-CA	-6.82	1.37	1.46
4	M	28	ILE	CG1-CD1	6.82	1.78	1.51
3	H	21	SER	CA-CB	6.82	1.62	1.52
3	B	142	THR	CB-OG1	6.81	1.54	1.43
2	A	66	ASP	C-O	-6.81	1.15	1.24
3	D	3	GLN	CA-CB	6.81	1.63	1.53
4	N	37	ALA	N-CA	6.81	1.54	1.45
4	N	63	GLU	CA-C	6.81	1.61	1.52
2	E	187	LEU	C-O	6.80	1.32	1.24
3	B	197	THR	CB-CG2	6.80	1.75	1.52
2	E	36	LYS	CB-CG	6.80	1.72	1.52
3	H	171	PHE	CA-C	-6.80	1.44	1.52
2	A	18	LYS	CG-CD	6.79	1.72	1.52
4	L	39	PHE	CE2-CZ	-6.79	1.18	1.38
2	C	34	THR	N-CA	6.79	1.54	1.46
2	A	124	PHE	CB-CG	-6.79	1.35	1.50
2	C	141	PHE	CD2-CE2	-6.79	1.18	1.38
2	C	213	LYS	CA-C	6.79	1.61	1.52
4	N	68	LEU	CB-CG	-6.78	1.39	1.53
1	Q	7	PRO	C-O	6.78	1.32	1.24
3	B	218	ARG	C-O	6.78	1.37	1.23
3	H	163	SER	N-CA	6.78	1.54	1.46
3	F	165	SER	C-O	-6.77	1.15	1.24
3	H	123	PRO	C-N	-6.77	1.25	1.33
2	A	179	TYR	N-CA	-6.77	1.37	1.45
3	B	88	ASN	CB-CG	6.77	1.69	1.52
3	F	38	ASN	C-N	-6.77	1.24	1.33
4	M	78	LYS	CG-CD	6.77	1.72	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	60	TYR	CZ-OH	6.77	1.52	1.38
3	H	151	PHE	CG-CD1	-6.77	1.24	1.38
1	Q	3	THR	C-O	6.77	1.33	1.23
2	E	52	VAL	C-O	-6.77	1.15	1.24
3	D	171	PHE	CD2-CE2	6.77	1.58	1.38
2	E	159	SER	N-CA	-6.77	1.36	1.45
1	S	13	ARG	N-CA	6.77	1.54	1.46
3	B	23	LYS	C-O	-6.76	1.15	1.24
4	N	58	ALA	CA-C	6.76	1.61	1.52
3	H	71	SER	C-O	6.76	1.32	1.23
3	D	35	HIS	N-CA	6.76	1.54	1.45
2	E	205	LYS	CA-CB	-6.75	1.42	1.53
3	H	212	ASP	CA-CB	6.75	1.66	1.53
2	A	105	GLY	C-N	-6.75	1.24	1.33
3	B	91	THR	CA-C	-6.75	1.44	1.52
2	C	179	TYR	CA-CB	6.75	1.64	1.53
2	E	148	LYS	C-O	-6.75	1.15	1.24
3	F	115	THR	CA-C	-6.75	1.44	1.52
2	C	138	VAL	CB-CG1	-6.75	1.30	1.52
1	Q	6	LYS	CA-C	6.75	1.61	1.52
3	H	207	SER	C-O	-6.75	1.14	1.24
3	D	155	VAL	N-CA	6.74	1.55	1.46
3	D	9	PRO	N-CA	-6.74	1.38	1.47
3	D	43	LYS	N-CA	-6.74	1.38	1.46
2	G	40	ALA	CA-CB	-6.74	1.42	1.53
2	E	7	SER	CA-C	-6.74	1.44	1.52
4	O	26	ASN	CG-OD1	6.74	1.36	1.23
4	O	43	PHE	CD1-CE1	-6.74	1.18	1.38
3	B	55	THR	CA-CB	6.74	1.64	1.53
2	E	178	THR	C-O	-6.74	1.16	1.24
3	B	95	PHE	CD1-CE1	-6.73	1.18	1.38
2	A	191	GLU	C-O	-6.73	1.15	1.24
2	E	142	LEU	C-N	-6.73	1.23	1.33
3	F	218	ARG	CA-C	6.73	1.67	1.52
1	S	3	THR	CB-CG2	6.73	1.74	1.52
2	E	95	LYS	CB-CG	6.73	1.72	1.52
3	F	150	TYR	CB-CG	6.73	1.66	1.51
2	A	168	SER	C-O	6.73	1.31	1.24
2	C	38	TYR	CA-CB	6.73	1.64	1.53
3	F	62	ASP	N-CA	6.73	1.54	1.46
2	G	98	TYR	C-O	-6.73	1.15	1.24
3	F	1	GLN	CA-C	6.73	1.67	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	S	36	LEU	CA-CB	6.73	1.64	1.53
4	L	67	ASP	N-CA	6.72	1.54	1.46
3	F	19	LYS	C-N	-6.72	1.23	1.33
2	A	119	PRO	C-O	-6.72	1.15	1.24
2	A	135	GLY	N-CA	6.72	1.55	1.45
3	F	203	ALA	N-CA	-6.72	1.37	1.46
4	L	77	ILE	C-O	-6.72	1.16	1.24
3	D	159	TRP	N-CA	-6.72	1.38	1.46
3	D	205	PRO	C-N	-6.72	1.24	1.33
2	E	146	TYR	C-O	6.72	1.32	1.24
3	F	83	ILE	C-O	-6.72	1.16	1.24
3	D	102	ARG	N-CA	-6.71	1.37	1.46
3	F	2	ILE	CA-CB	-6.71	1.45	1.54
2	A	97	ALA	N-CA	6.71	1.55	1.46
2	C	181	MET	SD-CE	6.71	1.96	1.79
3	D	3	GLN	C-N	6.71	1.42	1.33
2	E	104	PHE	CG-CD2	-6.71	1.24	1.38
3	F	104	TYR	CA-C	-6.71	1.44	1.52
2	E	39	LEU	CA-C	-6.71	1.44	1.52
2	G	181	MET	CA-C	6.71	1.60	1.52
3	H	1	GLN	CB-CG	6.71	1.72	1.52
3	B	203	ALA	CA-C	-6.71	1.44	1.52
3	D	113	THR	N-CA	-6.71	1.37	1.46
1	Q	40	ARG	CA-CB	6.71	1.64	1.53
3	B	171	PHE	CG-CD1	-6.70	1.24	1.38
2	C	68	PHE	N-CA	-6.70	1.38	1.46
3	D	18	VAL	C-O	6.70	1.33	1.24
2	A	67	ARG	N-CA	-6.70	1.37	1.46
3	F	159	TRP	CG-CD1	-6.70	1.20	1.36
4	O	20	GLU	CG-CD	6.70	1.68	1.52
2	E	132	THR	C-N	-6.69	1.24	1.33
4	L	41	GLY	CA-C	-6.69	1.44	1.52
3	H	150	TYR	CA-C	6.69	1.61	1.52
4	L	42	THR	N-CA	6.69	1.54	1.46
3	H	188	VAL	CB-CG2	6.69	1.74	1.52
2	C	215	PHE	CG-CD2	6.68	1.52	1.38
1	Q	11	THR	C-O	6.68	1.32	1.24
2	G	217	ARG	C-O	6.68	1.32	1.24
1	Q	15	THR	CA-C	6.68	1.61	1.52
3	B	116	VAL	CB-CG1	-6.68	1.30	1.52
2	A	78	THR	C-O	6.68	1.31	1.23
2	C	61	GLU	C-O	-6.68	1.14	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	39	LEU	CA-CB	-6.68	1.41	1.53
3	B	59	THR	N-CA	-6.68	1.38	1.46
1	Q	28	GLY	N-CA	6.68	1.55	1.45
2	C	145	PHE	CD2-CE2	-6.67	1.18	1.38
4	O	80	ALA	N-CA	-6.67	1.38	1.46
4	N	52	ARG	CA-C	6.67	1.61	1.52
2	A	33	ARG	CB-CG	6.67	1.72	1.52
2	E	54	ILE	N-CA	6.67	1.53	1.46
3	H	142	THR	CB-CG2	-6.67	1.30	1.52
2	C	113	LYS	CD-CE	6.67	1.72	1.52
3	B	9	PRO	N-CA	-6.67	1.39	1.47
4	L	54	ALA	CA-CB	-6.67	1.42	1.53
3	H	61	ALA	N-CA	6.67	1.54	1.46
2	A	27	GLN	C-O	6.66	1.31	1.23
2	C	73	SER	CA-C	6.66	1.61	1.52
2	C	143	ASN	CG-ND2	6.66	1.47	1.33
1	S	17	ARG	CA-C	6.66	1.62	1.52
2	A	175	LYS	CA-C	-6.66	1.44	1.52
3	F	31	ASP	CB-CG	6.66	1.68	1.52
3	H	56	GLY	C-O	-6.66	1.15	1.23
2	C	33	ARG	C-N	6.66	1.43	1.33
3	D	79	ALA	N-CA	-6.66	1.37	1.46
2	C	95	LYS	CA-C	-6.66	1.43	1.53
2	G	95	LYS	N-CA	-6.66	1.38	1.45
3	B	64	PHE	CD2-CE2	-6.66	1.18	1.38
2	C	161	ARG	N-CA	-6.66	1.38	1.46
2	A	8	PRO	N-CA	-6.66	1.35	1.47
3	B	148	LYS	C-O	6.65	1.32	1.23
2	G	212	VAL	CA-CB	-6.65	1.43	1.55
2	A	67	ARG	CA-C	-6.65	1.42	1.52
1	Q	34	VAL	C-O	6.65	1.31	1.24
3	B	180	TYR	CA-CB	6.65	1.63	1.53
3	F	103	GLN	CA-CB	-6.65	1.42	1.53
2	G	57	ALA	CA-C	-6.65	1.43	1.52
2	E	145	PHE	C-O	-6.64	1.15	1.23
4	M	43	PHE	CA-C	-6.64	1.43	1.52
3	H	144	GLY	C-O	6.64	1.32	1.23
4	M	54	ALA	N-CA	-6.64	1.37	1.46
2	A	74	GLY	CA-C	-6.64	1.42	1.51
4	N	28	ILE	CB-CG2	6.64	1.74	1.52
2	G	24	LYS	CG-CD	6.64	1.72	1.52
3	H	87	LYS	N-CA	6.64	1.54	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	38	TYR	CG-CD1	-6.63	1.25	1.39
2	E	125	PRO	N-CD	-6.63	1.38	1.47
2	C	192	TYR	N-CA	-6.63	1.38	1.46
3	D	88	ASN	N-CA	-6.63	1.37	1.46
2	A	151	ASN	C-N	-6.63	1.25	1.33
3	D	166	SER	CB-OG	6.63	1.55	1.42
1	Q	44	LEU	CA-CB	6.63	1.64	1.53
2	G	92	TYR	C-O	6.63	1.32	1.24
2	A	82	SER	N-CA	-6.62	1.36	1.45
2	E	42	TYR	CG-CD1	-6.62	1.25	1.39
3	F	73	GLU	C-N	-6.62	1.24	1.33
4	N	74	HIS	CB-CG	6.62	1.59	1.50
2	C	38	TYR	CB-CG	6.62	1.66	1.51
2	C	51	LYS	CA-CB	6.62	1.64	1.53
4	L	55	ALA	CA-C	-6.62	1.44	1.52
2	C	55	TYR	N-CA	6.62	1.54	1.46
2	E	68	PHE	N-CA	6.61	1.53	1.46
2	E	84	VAL	C-O	6.61	1.31	1.24
3	H	68	PHE	CG-CD1	6.61	1.52	1.38
2	C	35	ARG	NE-CZ	6.61	1.40	1.33
3	D	2	ILE	CA-C	-6.61	1.45	1.52
2	E	93	TYR	C-O	-6.61	1.15	1.23
3	F	201	ASN	C-O	-6.61	1.14	1.23
2	G	100	PRO	CA-C	6.60	1.58	1.52
3	F	4	LEU	CA-C	6.60	1.60	1.52
2	C	73	SER	C-N	-6.60	1.23	1.33
3	F	83	ILE	CA-C	-6.60	1.44	1.52
1	S	3	THR	CA-CB	6.60	1.64	1.53
3	H	60	TYR	C-O	6.60	1.32	1.24
2	A	98	TYR	C-N	6.60	1.40	1.33
3	F	98	ARG	NE-CZ	6.60	1.40	1.33
2	E	86	ALA	CA-C	-6.59	1.44	1.52
2	G	92	TYR	CA-C	-6.59	1.44	1.52
2	G	197	SER	CA-C	6.59	1.61	1.52
1	S	36	LEU	CB-CG	6.59	1.66	1.53
3	D	181	THR	CA-C	6.59	1.61	1.52
4	M	20	GLU	CG-CD	6.59	1.68	1.52
4	M	66	ALA	C-N	6.59	1.42	1.33
3	F	180	TYR	CA-C	-6.59	1.44	1.52
2	E	86	ALA	C-O	-6.58	1.15	1.24
3	F	125	SER	CA-C	-6.58	1.44	1.53
2	A	8	PRO	CA-C	6.58	1.66	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	43	PHE	CA-CB	-6.58	1.42	1.53
2	C	41	TRP	NE1-CE2	-6.58	1.30	1.37
2	G	176	ASP	C-O	-6.58	1.15	1.24
3	D	126	VAL	CA-CB	-6.58	1.45	1.54
3	D	142	THR	C-O	6.58	1.32	1.24
3	D	152	PRO	CG-CD	6.58	1.73	1.50
3	B	169	HIS	N-CA	-6.58	1.38	1.46
4	N	39	PHE	CG-CD1	-6.57	1.25	1.38
2	A	45	LYS	C-N	-6.57	1.26	1.33
2	C	130	GLN	CD-OE1	6.57	1.36	1.23
2	C	120	THR	CA-CB	6.57	1.62	1.53
3	H	81	LEU	CA-CB	6.57	1.64	1.53
2	C	51	LYS	CE-NZ	6.57	1.69	1.49
3	D	6	GLN	CA-C	6.57	1.60	1.52
4	L	27	LEU	C-O	-6.56	1.14	1.23
4	M	56	LEU	CA-CB	-6.56	1.43	1.53
4	N	30	ALA	C-O	-6.56	1.15	1.24
2	G	109	LYS	CA-C	-6.56	1.44	1.52
3	H	103	GLN	N-CA	6.56	1.56	1.46
4	L	40	LYS	CD-CE	6.56	1.72	1.52
2	C	11	LEU	N-CA	-6.56	1.38	1.45
2	A	210	PRO	CG-CD	6.56	1.73	1.50
3	D	34	MET	N-CA	6.56	1.54	1.46
3	H	137	THR	CA-C	-6.56	1.44	1.52
4	L	23	ILE	CA-C	-6.55	1.44	1.52
2	C	172	GLN	N-CA	-6.55	1.37	1.46
4	N	49	GLU	C-O	-6.55	1.15	1.24
3	D	77	SER	CA-CB	6.55	1.64	1.53
3	B	98	ARG	C-O	6.55	1.31	1.24
3	B	172	PRO	N-CD	-6.55	1.38	1.47
2	C	123	ILE	CB-CG1	6.55	1.66	1.53
3	B	70	PHE	C-O	6.55	1.32	1.23
2	E	24	LYS	CA-CB	-6.55	1.44	1.53
2	G	112	LEU	CA-CB	-6.55	1.42	1.53
2	C	121	VAL	CB-CG2	-6.55	1.30	1.52
2	G	60	ARG	CB-CG	6.55	1.72	1.52
2	G	156	ILE	CB-CG1	6.55	1.66	1.53
2	G	177	SER	CA-CB	6.54	1.64	1.53
4	M	59	LYS	CA-CB	6.54	1.64	1.53
4	L	75	MET	CG-SD	6.54	1.97	1.80
3	D	18	VAL	CB-CG1	6.54	1.74	1.52
2	A	170	THR	CB-OG1	-6.54	1.33	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	117	SER	C-N	-6.54	1.24	1.33
3	F	137	THR	CA-CB	6.54	1.62	1.53
3	F	215	ILE	C-N	6.54	1.39	1.33
2	C	55	TYR	C-N	6.54	1.42	1.33
2	G	177	SER	CA-C	-6.54	1.44	1.52
2	C	188	THR	N-CA	6.53	1.54	1.45
3	D	17	THR	CA-CB	-6.53	1.42	1.53
3	F	159	TRP	N-CA	6.53	1.54	1.46
3	H	16	GLU	CD-OE2	6.53	1.37	1.25
3	D	13	LYS	CA-C	6.53	1.61	1.52
2	E	8	PRO	N-CD	-6.53	1.38	1.47
2	C	14	SER	CA-CB	6.53	1.64	1.53
2	G	5	SER	CA-C	-6.52	1.44	1.52
2	C	192	TYR	CG-CD2	6.52	1.53	1.39
2	G	213	LYS	CA-C	6.52	1.61	1.53
3	B	74	THR	C-O	-6.52	1.15	1.24
2	A	60	ARG	CG-CD	6.52	1.72	1.52
2	E	35	ARG	CG-CD	6.52	1.72	1.52
2	G	156	ILE	CA-CB	6.52	1.62	1.54
2	A	157	ASP	N-CA	-6.52	1.37	1.46
4	N	25	VAL	CB-CG1	-6.51	1.31	1.52
2	A	101	PRO	CB-CG	-6.51	1.25	1.51
3	B	74	THR	CB-OG1	6.51	1.54	1.43
3	F	50	TRP	C-O	-6.51	1.16	1.23
2	E	81	ILE	CB-CG2	6.51	1.74	1.52
3	F	35	HIS	C-O	-6.51	1.15	1.23
2	A	203	THR	CA-CB	-6.51	1.42	1.53
3	D	37	VAL	CA-C	-6.51	1.44	1.52
3	H	45	LEU	CA-CB	6.51	1.64	1.53
1	Q	20	GLN	CG-CD	6.50	1.68	1.52
3	F	205	PRO	CA-CB	-6.50	1.44	1.53
1	S	17	ARG	N-CA	6.50	1.54	1.46
2	G	181	MET	C-O	6.50	1.32	1.23
3	H	139	SER	C-O	-6.50	1.15	1.24
4	N	68	LEU	CG-CD2	6.50	1.74	1.52
3	B	137	THR	CA-CB	6.50	1.64	1.53
3	F	77	SER	CA-C	-6.50	1.44	1.52
3	B	30	THR	C-N	-6.50	1.23	1.34
2	E	133	SER	C-N	6.49	1.43	1.33
4	O	44	GLU	C-O	6.49	1.30	1.23
3	B	58	PRO	N-CA	-6.49	1.39	1.47
2	E	181	MET	C-O	-6.49	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	O	25	VAL	CA-C	-6.49	1.44	1.52
2	G	71	ARG	CB-CG	6.49	1.72	1.52
3	B	193	TRP	CA-C	-6.49	1.44	1.53
2	E	159	SER	C-N	6.49	1.42	1.33
3	H	36	TRP	CD2-CE2	-6.49	1.30	1.41
3	B	93	THR	CA-C	6.48	1.60	1.52
2	C	55	TYR	C-O	6.48	1.32	1.23
2	E	2	ILE	N-CA	-6.48	1.37	1.46
2	G	67	ARG	C-N	-6.48	1.24	1.33
2	A	198	TYR	CG-CD2	-6.48	1.25	1.39
2	E	119	PRO	N-CA	-6.48	1.39	1.47
3	F	112	THR	CA-CB	-6.48	1.41	1.53
3	F	139	SER	C-O	-6.48	1.15	1.24
4	O	51	TYR	CA-C	-6.48	1.44	1.52
2	A	219	GLU	CD-OE2	-6.47	1.13	1.25
2	G	180	SER	CB-OG	6.47	1.55	1.42
3	B	171	PHE	CD2-CE2	-6.47	1.19	1.38
2	G	71	ARG	C-N	6.47	1.43	1.33
3	H	84	ASN	C-N	6.47	1.42	1.33
2	G	41	TRP	C-O	-6.47	1.16	1.23
2	G	151	ASN	CG-ND2	6.47	1.46	1.33
3	F	31	ASP	N-CA	6.46	1.54	1.46
2	G	198	TYR	CG-CD2	-6.46	1.25	1.39
4	O	74	HIS	CG-ND1	6.46	1.45	1.38
3	F	76	ALA	N-CA	6.46	1.54	1.46
3	D	147	VAL	N-CA	-6.46	1.38	1.46
1	P	28	GLY	C-N	6.45	1.41	1.33
1	Q	40	ARG	N-CA	6.45	1.54	1.46
3	B	62	ASP	CA-C	6.45	1.61	1.52
2	E	219	GLU	N-CA	-6.45	1.38	1.46
4	L	43	PHE	CE1-CZ	6.45	1.57	1.38
3	F	25	SER	CA-C	6.45	1.60	1.52
2	G	161	ARG	CG-CD	6.45	1.71	1.52
4	N	73	ASN	CA-C	6.45	1.61	1.52
3	B	99	PHE	CA-C	-6.44	1.45	1.52
3	F	90	ASP	C-O	6.44	1.32	1.23
2	G	101	PRO	CG-CD	-6.44	1.34	1.51
2	C	60	ARG	C-N	-6.44	1.22	1.33
3	H	175	LEU	N-CA	6.44	1.54	1.46
2	C	55	TYR	CB-CG	-6.44	1.37	1.51
3	H	208	SER	C-O	6.44	1.32	1.24
3	B	215	ILE	CA-C	6.43	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	87	LYS	CB-CG	6.43	1.71	1.52
3	F	138	ASN	C-O	6.43	1.32	1.24
3	F	124	PRO	CA-CB	-6.43	1.43	1.53
3	F	214	LYS	CG-CD	6.43	1.71	1.52
2	E	124	PHE	C-N	-6.43	1.25	1.33
2	C	168	SER	N-CA	6.43	1.53	1.46
2	E	52	VAL	CA-C	6.43	1.60	1.52
2	E	204	HIS	CA-C	6.43	1.60	1.52
1	S	37	LEU	CG-CD1	6.43	1.73	1.52
3	F	173	ALA	CA-C	6.43	1.62	1.53
2	A	3	VAL	C-N	-6.43	1.24	1.33
1	Q	4	ASN	CA-C	6.43	1.60	1.52
2	A	179	TYR	CA-C	6.42	1.60	1.52
4	L	34	ILE	C-O	6.42	1.30	1.24
3	B	28	THR	N-CA	6.42	1.54	1.46
2	G	189	LYS	CD-CE	6.42	1.71	1.52
3	B	194	PRO	CA-CB	-6.42	1.42	1.53
2	E	7	SER	N-CA	-6.42	1.37	1.46
1	S	3	THR	CB-OG1	6.42	1.54	1.43
2	E	111	GLU	CD-OE2	-6.42	1.13	1.25
4	N	67	ASP	C-O	6.42	1.32	1.24
1	P	27	GLY	N-CA	6.41	1.54	1.45
2	E	181	MET	N-CA	-6.41	1.38	1.46
2	G	43	GLN	CG-CD	6.41	1.68	1.52
3	H	1	GLN	CD-OE1	6.41	1.35	1.23
3	H	63	ASP	N-CA	-6.41	1.38	1.46
4	M	25	VAL	CB-CG2	-6.41	1.31	1.52
4	N	71	GLY	CA-C	6.41	1.60	1.51
3	H	152	PRO	CA-C	6.41	1.61	1.52
4	O	39	PHE	CD2-CE2	6.40	1.57	1.38
2	C	7	SER	C-O	6.40	1.31	1.24
2	A	39	LEU	CB-CG	6.40	1.66	1.53
2	C	106	ALA	CA-C	-6.40	1.44	1.52
1	Q	42	PRO	CG-CD	6.40	1.72	1.50
4	M	31	ASP	C-O	6.40	1.32	1.24
2	A	185	LEU	CG-CD2	6.40	1.73	1.52
3	B	178	ASP	CA-C	6.40	1.61	1.52
2	E	23	CYS	CA-CB	-6.40	1.42	1.53
4	N	23	ILE	CB-CG2	-6.40	1.31	1.52
3	B	146	LEU	C-N	-6.40	1.25	1.33
3	B	185	SER	N-CA	6.40	1.53	1.46
2	G	22	SER	N-CA	6.40	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	G	215	PHE	CD2-CE2	-6.40	1.19	1.38
4	N	20	GLU	CG-CD	6.40	1.68	1.52
2	G	195	HIS	CB-CG	6.39	1.59	1.50
3	H	210	LYS	N-CA	-6.39	1.38	1.46
2	C	86	ALA	CA-CB	6.39	1.64	1.53
2	E	104	PHE	CE2-CZ	-6.39	1.19	1.38
3	H	70	PHE	CG-CD2	-6.39	1.25	1.38
2	E	82	SER	N-CA	-6.39	1.38	1.45
3	F	147	VAL	CA-CB	-6.39	1.46	1.53
2	G	172	GLN	C-N	6.39	1.41	1.33
3	D	193	TRP	CA-C	-6.38	1.44	1.52
3	D	159	TRP	CA-CB	-6.38	1.43	1.53
2	G	26	SER	C-O	6.38	1.32	1.24
3	H	207	SER	CA-C	6.38	1.64	1.52
2	C	122	SER	CA-C	-6.38	1.44	1.52
2	C	148	LYS	C-N	-6.38	1.24	1.33
3	D	11	LEU	C-O	-6.38	1.15	1.23
3	F	155	VAL	CB-CG2	-6.38	1.31	1.52
3	H	112	THR	CB-CG2	6.37	1.73	1.52
2	C	30	LEU	N-CA	6.37	1.54	1.46
1	Q	7	PRO	C-N	6.37	1.42	1.33
2	E	198	TYR	N-CA	-6.37	1.38	1.46
3	H	27	TYR	CZ-OH	6.37	1.51	1.38
3	D	162	GLY	N-CA	6.37	1.54	1.45
2	G	63	GLY	N-CA	-6.37	1.35	1.45
2	A	77	PHE	CG-CD1	6.37	1.52	1.38
2	A	91	VAL	C-N	6.37	1.42	1.33
3	B	86	LEU	CA-C	-6.37	1.44	1.53
3	F	108	TRP	CZ2-CH2	-6.37	1.25	1.37
3	B	126	VAL	N-CA	6.37	1.53	1.46
3	H	136	GLN	CA-CB	6.37	1.63	1.53
4	N	26	ASN	CG-OD1	6.36	1.35	1.23
4	M	36	THR	CB-OG1	-6.36	1.33	1.43
4	M	57	HIS	C-N	-6.36	1.24	1.33
2	E	101	PRO	CA-C	6.36	1.65	1.52
4	O	23	ILE	CB-CG2	-6.36	1.31	1.52
2	A	163	ASN	CA-C	6.36	1.60	1.52
2	G	114	ARG	C-O	-6.36	1.16	1.24
2	G	192	TYR	N-CA	-6.36	1.38	1.46
2	G	65	PRO	C-O	6.36	1.32	1.24
2	E	56	TRP	CD2-CE2	6.36	1.52	1.41
2	E	128	SER	CA-C	6.36	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	215	PHE	CE2-CZ	-6.36	1.19	1.38
1	S	31	VAL	CA-CB	6.36	1.63	1.54
3	D	77	SER	CA-C	6.35	1.61	1.52
3	D	109	GLY	C-O	-6.35	1.15	1.23
2	G	72	GLY	N-CA	6.35	1.54	1.45
4	M	23	ILE	CA-C	-6.35	1.46	1.52
4	M	41	GLY	N-CA	6.34	1.54	1.45
3	F	49	GLY	CA-C	-6.34	1.43	1.52
2	E	9	SER	CA-CB	-6.34	1.43	1.53
3	B	110	ALA	CA-C	-6.34	1.44	1.52
2	G	132	THR	C-O	6.34	1.31	1.24
2	A	146	TYR	CD1-CE1	-6.34	1.19	1.38
3	B	91	THR	CB-OG1	6.34	1.53	1.43
3	F	170	THR	CA-C	6.33	1.61	1.53
2	C	41	TRP	CA-CB	6.33	1.64	1.53
4	L	27	LEU	CG-CD2	-6.33	1.31	1.52
3	F	67	ARG	N-CA	6.33	1.54	1.46
2	E	67	ARG	CA-C	-6.33	1.41	1.52
2	E	217	ARG	CA-C	6.33	1.60	1.52
2	E	67	ARG	NE-CZ	6.33	1.40	1.33
2	G	55	TYR	CZ-OH	-6.32	1.24	1.38
2	G	146	TYR	CA-CB	6.32	1.64	1.53
3	B	50	TRP	CA-C	6.32	1.60	1.52
2	C	22	SER	N-CA	6.32	1.53	1.46
3	F	80	TYR	C-O	-6.32	1.16	1.23
3	H	102	ARG	N-CA	6.32	1.55	1.46
3	D	86	LEU	C-O	-6.31	1.15	1.23
3	D	173	ALA	C-N	-6.31	1.25	1.33
2	C	28	SER	CA-C	6.31	1.61	1.52
3	D	108	TRP	C-N	-6.31	1.24	1.33
2	E	96	GLN	CA-C	-6.31	1.44	1.52
2	G	188	THR	N-CA	6.31	1.54	1.46
2	C	156	ILE	CB-CG2	-6.31	1.31	1.52
3	H	43	LYS	CA-C	-6.31	1.44	1.53
2	A	3	VAL	CB-CG2	6.31	1.73	1.52
4	L	46	ALA	CA-C	6.31	1.60	1.52
4	M	68	LEU	N-CA	-6.31	1.38	1.46
3	H	79	ALA	C-N	-6.31	1.27	1.33
4	M	79	PHE	CG-CD2	6.31	1.52	1.38
3	F	21	SER	CA-CB	6.31	1.63	1.53
3	H	169	HIS	CG-ND1	6.31	1.45	1.38
2	E	185	LEU	C-O	6.30	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	S	29	GLN	CB-CG	6.30	1.71	1.52
3	B	150	TYR	CE1-CZ	-6.30	1.23	1.38
3	F	194	PRO	CA-CB	6.30	1.65	1.53
3	B	89	GLU	CA-CB	6.30	1.64	1.53
3	D	183	SER	C-N	-6.30	1.24	1.33
3	F	50	TRP	C-N	-6.30	1.25	1.33
3	F	68	PHE	CG-CD2	-6.30	1.25	1.38
2	G	70	GLY	C-O	6.29	1.32	1.23
3	B	139	SER	CA-CB	6.29	1.61	1.53
4	L	49	GLU	N-CA	6.29	1.53	1.46
2	E	14	SER	C-O	-6.29	1.15	1.23
2	G	87	GLU	C-N	-6.29	1.24	1.33
3	H	180	TYR	CB-CG	6.29	1.65	1.51
2	E	56	TRP	CA-CB	-6.29	1.42	1.53
3	B	93	THR	N-CA	6.29	1.53	1.46
3	D	47	TRP	CD2-CE2	-6.29	1.30	1.41
4	M	73	ASN	CA-C	-6.29	1.44	1.52
4	N	81	GLY	CA-C	6.29	1.63	1.52
3	D	114	VAL	C-N	-6.29	1.25	1.33
2	A	67	ARG	CZ-NH1	-6.28	1.24	1.32
2	E	55	TYR	CG-CD2	-6.28	1.26	1.39
3	D	194	PRO	CA-CB	-6.28	1.42	1.53
4	N	30	ALA	CA-CB	6.28	1.64	1.53
3	D	66	GLY	C-N	-6.28	1.25	1.33
4	M	55	ALA	CA-C	-6.28	1.45	1.52
3	F	75	SER	CA-C	-6.28	1.44	1.52
4	O	33	LYS	CB-CG	6.28	1.71	1.52
3	F	19	LYS	C-O	-6.28	1.16	1.24
3	F	79	ALA	CA-CB	6.28	1.67	1.54
4	L	57	HIS	CG-ND1	-6.27	1.31	1.38
3	F	179	LEU	N-CA	6.27	1.54	1.46
3	H	51	VAL	C-O	6.27	1.31	1.24
3	B	165	SER	CA-CB	6.26	1.65	1.54
2	E	109	LYS	CA-CB	-6.26	1.44	1.53
2	C	109	LYS	CA-C	-6.26	1.45	1.52
2	E	82	SER	C-N	6.26	1.41	1.33
3	H	94	TYR	CD2-CE2	-6.25	1.19	1.38
3	B	36	TRP	N-CA	-6.25	1.38	1.46
2	E	163	ASN	CA-CB	6.25	1.63	1.53
3	H	117	SER	CA-C	-6.25	1.44	1.52
2	A	131	LEU	N-CA	-6.25	1.38	1.46
3	B	154	PRO	CG-CD	-6.25	1.34	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	153	LYS	N-CA	-6.25	1.38	1.46
3	F	57	GLU	N-CA	-6.25	1.37	1.46
4	N	20	GLU	CD-OE2	6.25	1.37	1.25
3	H	73	GLU	CA-C	6.25	1.59	1.53
2	A	106	ALA	N-CA	-6.25	1.38	1.46
2	E	214	SER	C-O	-6.25	1.15	1.23
2	G	12	ALA	N-CA	-6.25	1.37	1.46
2	A	178	THR	C-O	-6.24	1.14	1.23
4	N	64	TRP	CA-CB	6.24	1.62	1.53
2	A	193	GLU	C-O	6.24	1.32	1.24
4	L	29	PHE	CD1-CE1	6.24	1.57	1.38
2	C	71	ARG	C-N	6.24	1.39	1.33
2	E	183	SER	CA-C	6.23	1.60	1.52
2	G	75	THR	C-O	-6.23	1.15	1.24
3	B	106	ASP	C-O	6.23	1.32	1.24
4	L	39	PHE	CD1-CE1	-6.23	1.20	1.38
2	G	47	GLY	CA-C	-6.23	1.42	1.51
3	H	34	MET	CB-CG	-6.23	1.33	1.52
4	O	49	GLU	CA-C	-6.23	1.44	1.52
2	A	21	MET	CA-CB	6.23	1.63	1.53
2	A	88	ASP	N-CA	6.23	1.54	1.46
2	E	197	SER	N-CA	6.23	1.55	1.46
2	G	33	ARG	CD-NE	6.23	1.54	1.46
2	A	15	ALA	C-O	-6.22	1.16	1.24
3	D	215	ILE	CA-CB	-6.22	1.46	1.54
3	F	22	CYS	CA-C	-6.22	1.46	1.53
2	E	213	LYS	CD-CE	6.22	1.71	1.52
1	S	9	ARG	CZ-NH1	6.22	1.41	1.32
3	H	37	VAL	N-CA	-6.22	1.38	1.46
2	A	39	LEU	C-N	-6.22	1.24	1.33
3	B	70	PHE	CE2-CZ	-6.22	1.20	1.38
4	L	22	THR	CB-CG2	6.22	1.73	1.52
2	E	125	PRO	CA-C	-6.22	1.46	1.52
2	G	64	VAL	CA-C	6.22	1.59	1.52
3	B	21	SER	CB-OG	6.21	1.54	1.42
3	F	156	THR	C-O	6.21	1.31	1.23
3	H	4	LEU	CA-CB	-6.21	1.41	1.52
2	A	87	GLU	C-O	-6.21	1.16	1.24
2	A	197	SER	N-CA	6.21	1.54	1.46
2	E	101	PRO	C-N	6.21	1.42	1.33
3	H	197	THR	CB-OG1	6.21	1.53	1.43
3	F	33	SER	N-CA	6.21	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	9	SER	CA-C	6.21	1.62	1.52
2	C	58	SER	CA-C	-6.21	1.44	1.52
4	O	79	PHE	CB-CG	-6.21	1.36	1.50
3	D	119	ALA	C-O	-6.20	1.16	1.24
4	M	59	LYS	CA-C	-6.20	1.44	1.52
2	E	32	SER	N-CA	-6.20	1.39	1.46
2	E	41	TRP	CA-C	-6.20	1.45	1.52
2	C	56	TRP	CA-CB	6.20	1.63	1.53
2	E	130	GLN	CA-C	-6.20	1.42	1.52
2	C	17	GLU	CA-C	6.20	1.60	1.52
3	B	74	THR	CA-CB	-6.20	1.43	1.53
2	E	24	LYS	C-N	6.20	1.43	1.33
3	F	128	PRO	CA-C	6.20	1.58	1.52
2	C	29	LEU	CA-CB	-6.19	1.43	1.53
2	A	88	ASP	C-O	6.19	1.31	1.24
3	B	201	ASN	CG-ND2	-6.19	1.20	1.33
3	D	195	SER	C-O	6.19	1.29	1.23
3	F	136	GLN	C-N	6.19	1.40	1.33
3	H	140	MET	CG-SD	6.19	1.96	1.80
3	D	49	GLY	C-N	6.19	1.41	1.33
2	C	148	LYS	N-CA	-6.19	1.38	1.46
4	M	74	HIS	CB-CG	6.19	1.58	1.50
3	F	102	ARG	CZ-NH2	6.19	1.41	1.33
2	G	78	THR	CA-C	-6.19	1.44	1.52
4	M	37	ALA	CA-CB	-6.18	1.43	1.53
3	H	105	PHE	CA-CB	6.18	1.63	1.53
4	O	79	PHE	CD1-CE1	6.18	1.57	1.38
3	B	169	HIS	CB-CG	6.18	1.58	1.50
3	D	50	TRP	NE1-CE2	-6.18	1.30	1.37
2	E	18	LYS	C-N	-6.18	1.26	1.33
3	D	95	PHE	CA-C	6.18	1.60	1.52
3	H	114	VAL	C-O	-6.18	1.16	1.24
2	C	198	TYR	CA-CB	6.18	1.61	1.53
1	Q	4	ASN	CG-ND2	6.18	1.46	1.33
3	B	61	ALA	CA-C	-6.18	1.44	1.53
3	F	83	ILE	C-N	-6.18	1.25	1.33
3	D	86	LEU	CA-C	6.17	1.60	1.52
3	B	212	ASP	CB-CG	6.17	1.67	1.52
2	A	50	PRO	CB-CG	-6.17	1.18	1.49
1	Q	7	PRO	N-CA	6.17	1.55	1.47
3	F	22	CYS	N-CA	-6.17	1.39	1.46
3	D	212	ASP	CA-CB	6.17	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	80	TYR	CG-CD1	-6.17	1.26	1.39
3	D	39	GLN	CD-NE2	-6.17	1.20	1.33
3	D	113	THR	C-N	-6.17	1.25	1.33
3	F	150	TYR	CG-CD2	-6.17	1.26	1.39
4	N	56	LEU	CB-CG	6.17	1.65	1.53
3	F	47	TRP	CB-CG	-6.16	1.31	1.50
2	G	57	ALA	C-O	-6.16	1.16	1.24
4	N	78	LYS	CA-C	6.16	1.60	1.52
2	C	50	PRO	C-O	6.16	1.31	1.24
3	H	17	THR	CA-CB	6.16	1.65	1.54
3	B	105	PHE	CD1-CE1	-6.15	1.20	1.38
2	E	94	CYS	N-CA	6.15	1.53	1.46
3	F	94	TYR	CG-CD1	6.15	1.52	1.39
3	B	196	GLU	C-O	6.15	1.34	1.23
3	F	34	MET	N-CA	6.15	1.53	1.46
4	N	49	GLU	N-CA	6.15	1.54	1.46
2	G	114	ARG	CA-C	-6.15	1.44	1.52
2	G	140	CYS	CA-CB	-6.15	1.43	1.53
3	H	39	GLN	C-O	-6.15	1.17	1.23
2	A	84	VAL	C-O	-6.15	1.16	1.24
3	F	108	TRP	CG-CD1	-6.15	1.21	1.36
2	G	192	TYR	CG-CD1	-6.15	1.26	1.39
4	O	33	LYS	CD-CE	6.15	1.70	1.52
2	A	38	TYR	CA-C	-6.14	1.44	1.52
2	C	131	LEU	N-CA	6.14	1.53	1.46
3	D	65	LYS	CG-CD	6.14	1.70	1.52
3	F	12	LYS	CD-CE	6.14	1.70	1.52
2	A	198	TYR	C-O	6.14	1.31	1.24
3	B	97	ALA	CA-C	-6.14	1.45	1.52
2	C	60	ARG	N-CA	6.14	1.53	1.45
3	D	4	LEU	N-CA	6.14	1.53	1.46
4	M	29	PHE	CB-CG	-6.14	1.36	1.50
2	E	147	PRO	CG-CD	-6.14	1.35	1.51
3	B	209	THR	N-CA	6.14	1.53	1.45
2	C	53	LEU	CB-CG	6.14	1.65	1.53
1	S	6	LYS	C-O	6.14	1.32	1.24
2	A	129	GLU	CG-CD	6.13	1.67	1.52
3	B	93	THR	CB-CG2	-6.13	1.32	1.52
2	E	152	VAL	CA-CB	6.13	1.62	1.54
3	F	67	ARG	C-O	-6.13	1.16	1.24
2	E	207	SER	N-CA	6.13	1.53	1.46
2	C	13	VAL	CA-C	-6.13	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	98	TYR	CA-CB	6.13	1.62	1.53
3	F	188	VAL	C-O	-6.13	1.16	1.24
2	C	120	THR	CA-C	6.13	1.60	1.52
2	C	208	THR	C-O	-6.13	1.15	1.23
2	E	179	TYR	CG-CD1	-6.13	1.26	1.39
3	F	77	SER	CA-CB	6.13	1.63	1.53
3	F	176	GLN	CG-CD	6.13	1.67	1.52
2	G	75	THR	CA-C	-6.13	1.44	1.52
2	E	119	PRO	CA-C	-6.12	1.43	1.52
3	D	6	GLN	CA-CB	6.12	1.65	1.53
2	E	95	LYS	CA-C	6.12	1.60	1.52
2	E	152	VAL	CA-C	-6.12	1.45	1.52
2	A	169	TRP	CE3-CZ3	6.12	1.57	1.38
3	H	178	ASP	CA-C	6.12	1.60	1.52
2	C	136	ALA	C-O	-6.12	1.16	1.24
2	E	42	TYR	CB-CG	-6.12	1.38	1.51
3	F	94	TYR	CA-C	6.12	1.60	1.52
2	A	219	GLU	CD-OE1	6.11	1.36	1.25
3	B	217	PRO	C-N	-6.11	1.24	1.33
4	L	38	GLU	C-N	6.11	1.41	1.33
3	D	76	ALA	CA-C	-6.11	1.44	1.52
2	A	160	GLU	CA-C	6.11	1.60	1.52
3	F	53	THR	C-O	6.11	1.31	1.24
3	F	177	SER	CA-C	-6.11	1.44	1.52
3	H	140	MET	N-CA	-6.11	1.38	1.46
2	C	9	SER	N-CA	6.11	1.52	1.46
3	F	218	ARG	CZ-NH2	6.11	1.41	1.33
3	H	142	THR	N-CA	6.11	1.53	1.46
2	C	19	VAL	CB-CG1	-6.11	1.32	1.52
1	Q	17	ARG	CD-NE	6.10	1.54	1.46
2	G	136	ALA	N-CA	6.10	1.53	1.46
3	F	108	TRP	CD2-CE3	-6.10	1.30	1.40
3	H	28	THR	CA-C	-6.10	1.45	1.52
3	H	170	THR	C-O	-6.10	1.16	1.24
2	A	181	MET	CA-C	-6.10	1.45	1.52
2	A	213	LYS	N-CA	6.10	1.53	1.46
4	L	66	ALA	C-N	6.09	1.42	1.33
2	C	190	ASP	CG-OD1	6.09	1.36	1.25
1	Q	3	THR	CB-CG2	6.09	1.72	1.52
2	G	31	ASN	CB-CG	6.09	1.67	1.52
3	F	32	PHE	CG-CD2	-6.09	1.26	1.38
2	G	37	ASN	N-CA	-6.09	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	H	11	LEU	CA-C	-6.09	1.46	1.52
2	A	15	ALA	CA-CB	6.09	1.63	1.53
3	B	28	THR	CA-CB	6.08	1.63	1.53
2	G	87	GLU	CD-OE2	6.08	1.36	1.25
2	A	38	TYR	CD2-CE2	-6.08	1.20	1.38
2	A	132	THR	C-O	-6.08	1.15	1.23
1	Q	43	ARG	CA-CB	6.08	1.63	1.53
2	G	27	GLN	CG-CD	-6.08	1.36	1.52
4	L	19	GLU	CA-CB	-6.08	1.43	1.53
2	C	89	GLN	CA-CB	-6.08	1.43	1.53
2	E	145	PHE	N-CA	6.08	1.53	1.46
2	E	150	ILE	N-CA	-6.08	1.38	1.46
3	F	195	SER	CA-C	6.08	1.59	1.52
2	G	173	ASP	CA-C	-6.08	1.45	1.53
2	A	204	HIS	CA-CB	-6.07	1.43	1.53
3	B	105	PHE	CE2-CZ	-6.07	1.20	1.38
2	E	96	GLN	C-N	-6.07	1.25	1.33
2	E	162	GLN	C-O	6.07	1.31	1.23
3	D	34	MET	SD-CE	-6.07	1.64	1.79
3	F	202	VAL	CB-CG1	-6.07	1.32	1.52
2	A	68	PHE	CG-CD2	-6.07	1.26	1.38
4	L	71	GLY	CA-C	6.07	1.60	1.51
3	F	88	ASN	CA-CB	-6.07	1.43	1.53
2	A	162	GLN	CD-OE1	6.07	1.35	1.23
3	B	143	LEU	C-O	6.07	1.31	1.23
3	D	104	TYR	CA-CB	6.07	1.63	1.53
2	E	185	LEU	CA-C	6.07	1.60	1.52
2	G	168	SER	N-CA	6.06	1.53	1.46
2	E	167	ASN	CG-ND2	6.06	1.46	1.33
2	A	125	PRO	C-N	-6.06	1.27	1.33
3	D	35	HIS	CG-ND1	-6.06	1.31	1.38
4	M	57	HIS	CB-CG	6.06	1.58	1.50
4	M	59	LYS	CG-CD	6.06	1.70	1.52
4	N	53	TYR	CD1-CE1	-6.06	1.20	1.38
3	D	177	SER	C-N	6.06	1.42	1.33
1	Q	7	PRO	CG-CD	6.06	1.71	1.50
4	N	43	PHE	CE1-CZ	-6.06	1.20	1.38
2	A	150	ILE	CG1-CD1	6.05	1.75	1.51
2	G	119	PRO	C-O	6.05	1.30	1.23
2	G	36	LYS	CA-CB	6.05	1.63	1.53
3	H	200	CYS	CA-CB	6.05	1.65	1.53
3	B	182	LEU	C-O	6.05	1.31	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	89	GLN	CD-OE1	-6.04	1.12	1.23
3	D	118	SER	N-CA	-6.04	1.38	1.46
3	F	99	PHE	CA-C	-6.04	1.44	1.53
3	B	118	SER	C-O	-6.04	1.16	1.24
4	M	60	VAL	N-CA	6.04	1.53	1.46
3	D	134	ALA	C-O	6.03	1.31	1.24
2	E	51	LYS	CG-CD	6.03	1.70	1.52
2	E	213	LYS	CE-NZ	6.03	1.67	1.49
3	F	1	GLN	CD-OE1	-6.03	1.12	1.23
1	S	6	LYS	CB-CG	6.03	1.70	1.52
2	A	169	TRP	C-O	-6.03	1.16	1.23
3	H	100	LEU	C-O	-6.03	1.15	1.23
3	B	134	ALA	N-CA	6.03	1.53	1.46
3	D	61	ALA	CA-CB	-6.03	1.43	1.53
2	A	167	ASN	C-O	-6.03	1.16	1.23
3	F	101	LEU	N-CA	-6.03	1.38	1.46
2	G	1	ASP	N-CA	6.02	1.57	1.46
2	E	129	GLU	CD-OE1	6.02	1.36	1.25
3	F	34	MET	CB-CG	-6.02	1.34	1.52
2	G	18	LYS	C-O	6.02	1.31	1.24
2	G	144	ASN	C-O	6.02	1.31	1.24
3	B	33	SER	C-O	-6.02	1.16	1.23
2	G	108	THR	CB-OG1	6.02	1.53	1.43
2	C	37	ASN	CA-C	6.01	1.61	1.53
2	G	193	GLU	C-O	6.01	1.31	1.24
2	E	6	GLN	CD-NE2	6.01	1.45	1.33
2	E	139	VAL	CA-C	-6.01	1.45	1.52
3	F	17	THR	N-CA	-6.01	1.38	1.45
3	F	182	LEU	CA-C	-6.01	1.45	1.52
2	E	188	THR	CB-CG2	6.01	1.72	1.52
3	F	17	THR	CA-C	-6.01	1.44	1.53
3	H	88	ASN	N-CA	6.01	1.53	1.46
2	A	142	LEU	CA-C	-6.01	1.47	1.53
1	S	22	VAL	N-CA	6.00	1.53	1.46
2	G	206	THR	N-CA	6.00	1.53	1.46
4	O	32	GLY	CA-C	6.00	1.60	1.51
2	G	124	PHE	C-N	-6.00	1.26	1.33
3	H	124	PRO	C-O	-6.00	1.16	1.23
4	M	67	ASP	CG-OD1	6.00	1.36	1.25
2	E	101	PRO	C-O	6.00	1.35	1.23
3	F	65	LYS	CB-CG	6.00	1.70	1.52
2	C	34	THR	CA-CB	6.00	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	165	SER	CA-CB	6.00	1.63	1.53
3	D	26	GLY	C-O	5.99	1.31	1.24
2	A	93	TYR	CZ-OH	-5.99	1.25	1.38
3	B	181	THR	N-CA	-5.99	1.38	1.45
2	G	26	SER	N-CA	5.99	1.53	1.46
2	A	78	THR	N-CA	-5.99	1.38	1.46
4	N	39	PHE	CE2-CZ	-5.99	1.20	1.38
2	G	132	THR	CA-C	-5.99	1.44	1.52
2	G	185	LEU	N-CA	-5.99	1.38	1.46
3	D	21	SER	N-CA	5.99	1.53	1.46
2	A	111	GLU	CA-CB	5.99	1.62	1.53
2	A	120	THR	C-N	5.99	1.40	1.33
3	B	27	TYR	CA-CB	5.99	1.64	1.53
3	F	37	VAL	C-O	-5.99	1.18	1.24
4	N	50	ALA	CA-CB	5.99	1.63	1.53
2	G	116	ASP	CB-CG	5.99	1.67	1.52
3	D	184	SER	N-CA	-5.98	1.38	1.46
2	A	166	LEU	CA-CB	5.98	1.62	1.53
4	L	17	PRO	CA-CB	5.98	1.65	1.53
2	E	85	GLN	CA-CB	5.98	1.61	1.53
3	F	29	PHE	CG-CD1	-5.98	1.26	1.38
3	H	131	PRO	N-CA	-5.98	1.39	1.47
3	D	152	PRO	CA-CB	5.98	1.62	1.53
2	E	95	LYS	N-CA	-5.98	1.39	1.45
4	L	35	GLN	CG-CD	5.98	1.67	1.52
3	H	157	VAL	CB-CG2	5.98	1.72	1.52
4	M	70	ASP	CA-C	-5.98	1.45	1.53
3	F	158	THR	C-O	-5.98	1.15	1.24
4	N	20	GLU	CA-C	5.98	1.60	1.52
4	N	68	LEU	CA-CB	-5.98	1.43	1.53
4	L	21	VAL	CB-CG1	5.97	1.72	1.52
2	E	83	SER	C-N	-5.97	1.25	1.33
2	E	203	THR	N-CA	-5.97	1.38	1.46
2	G	185	LEU	CA-C	5.97	1.60	1.52
2	A	196	ASN	C-N	5.97	1.42	1.33
2	C	31	ASN	CG-ND2	5.97	1.45	1.33
4	N	53	TYR	CA-C	-5.97	1.45	1.52
2	G	137	SER	CA-C	5.97	1.59	1.52
2	A	29	LEU	CG-CD1	5.97	1.72	1.52
4	M	40	LYS	CB-CG	5.96	1.70	1.52
2	G	71	ARG	CA-CB	5.96	1.61	1.53
2	E	41	TRP	CG-CD2	5.96	1.54	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	181	THR	C-N	5.96	1.40	1.33
3	B	101	LEU	CA-C	-5.96	1.44	1.52
2	G	110	LEU	CB-CG	5.96	1.65	1.53
2	A	94	CYS	N-CA	-5.96	1.38	1.45
4	N	43	PHE	CD1-CE1	-5.96	1.20	1.38
4	M	45	GLU	C-O	-5.96	1.16	1.24
2	E	202	ALA	CA-CB	5.96	1.61	1.53
3	H	48	MET	CG-SD	-5.96	1.65	1.80
2	E	149	ASP	CA-CB	5.95	1.62	1.53
2	G	42	TYR	CD2-CE2	-5.95	1.20	1.38
2	C	91	VAL	N-CA	-5.95	1.39	1.46
4	L	81	GLY	C-N	-5.95	1.25	1.33
3	D	100	LEU	N-CA	5.95	1.53	1.45
2	E	75	THR	N-CA	-5.95	1.39	1.46
3	F	137	THR	N-CA	5.95	1.53	1.46
3	B	77	SER	N-CA	5.95	1.53	1.46
4	L	50	ALA	CA-CB	-5.95	1.43	1.53
3	H	134	ALA	C-O	5.95	1.31	1.24
4	O	58	ALA	C-O	-5.95	1.16	1.24
2	E	93	TYR	CB-CG	-5.94	1.38	1.51
4	L	35	GLN	CA-CB	-5.94	1.44	1.53
2	G	196	ASN	CA-CB	5.94	1.63	1.53
3	F	180	TYR	CG-CD2	5.94	1.51	1.39
3	F	214	LYS	CD-CE	5.94	1.70	1.52
2	G	84	VAL	C-N	-5.94	1.25	1.33
3	B	213	LYS	CA-CB	5.94	1.61	1.53
2	C	3	VAL	CB-CG2	5.94	1.72	1.52
1	S	7	PRO	N-CA	5.93	1.54	1.47
2	G	217	ARG	CA-CB	5.93	1.63	1.53
3	H	143	LEU	CA-C	-5.93	1.45	1.52
2	A	39	LEU	C-O	-5.93	1.16	1.23
3	D	148	LYS	CE-NZ	-5.93	1.31	1.49
3	B	17	THR	CA-C	5.93	1.59	1.52
2	A	105	GLY	CA-C	5.93	1.61	1.52
2	A	192	TYR	C-O	-5.93	1.15	1.23
3	F	124	PRO	CA-C	-5.93	1.46	1.52
2	E	177	SER	CA-CB	-5.93	1.44	1.53
3	F	67	ARG	CA-C	-5.93	1.44	1.52
3	F	73	GLU	C-O	-5.93	1.15	1.23
3	H	123	PRO	CA-CB	5.93	1.62	1.54
2	A	13	VAL	CB-CG2	-5.93	1.32	1.52
4	N	50	ALA	C-N	-5.93	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	82	SER	CB-OG	-5.92	1.30	1.42
3	D	159	TRP	CZ3-CH2	-5.92	1.25	1.40
2	E	108	THR	CA-C	5.92	1.59	1.52
2	E	169	TRP	C-N	-5.92	1.26	1.33
4	O	67	ASP	CA-C	5.92	1.59	1.52
2	A	142	LEU	C-N	-5.92	1.25	1.33
3	B	54	GLU	N-CA	5.92	1.53	1.46
2	G	125	PRO	CG-CD	5.92	1.70	1.50
3	H	79	ALA	CA-CB	5.92	1.67	1.53
3	B	37	VAL	C-O	-5.92	1.17	1.24
2	A	95	LYS	N-CA	-5.92	1.38	1.45
3	D	101	LEU	CB-CG	5.92	1.65	1.53
2	E	39	LEU	C-O	-5.92	1.17	1.24
2	A	184	THR	N-CA	5.92	1.55	1.46
2	C	41	TRP	CZ3-CH2	-5.92	1.25	1.40
1	S	13	ARG	C-N	5.92	1.42	1.33
2	G	6	GLN	N-CA	5.92	1.53	1.46
4	O	72	GLY	CA-C	5.92	1.59	1.51
3	B	41	PRO	N-CA	-5.92	1.39	1.47
2	C	4	MET	N-CA	-5.92	1.38	1.45
2	A	60	ARG	CA-C	-5.91	1.45	1.52
2	A	147	PRO	C-O	5.91	1.35	1.23
2	G	24	LYS	CA-C	-5.91	1.47	1.53
3	B	151	PHE	CG-CD1	-5.91	1.26	1.38
4	L	59	LYS	CB-CG	5.91	1.70	1.52
3	D	81	LEU	CA-CB	-5.91	1.40	1.53
3	B	175	LEU	C-O	5.91	1.30	1.23
3	D	38	ASN	C-O	-5.91	1.16	1.23
4	M	81	GLY	CA-C	5.91	1.62	1.52
4	N	36	THR	CB-OG1	-5.91	1.34	1.43
2	G	81	ILE	CB-CG1	-5.91	1.41	1.53
2	A	36	LYS	CA-CB	-5.91	1.42	1.53
3	F	90	ASP	N-CA	-5.90	1.38	1.46
3	F	155	VAL	CB-CG1	-5.90	1.33	1.52
2	G	50	PRO	N-CD	-5.90	1.39	1.47
3	F	48	MET	C-O	5.90	1.31	1.24
2	A	77	PHE	CG-CD2	5.90	1.51	1.38
4	M	27	LEU	CA-C	-5.90	1.45	1.52
2	G	129	GLU	CA-C	-5.89	1.45	1.52
2	A	50	PRO	CA-CB	-5.89	1.44	1.53
2	G	33	ARG	NE-CZ	5.89	1.39	1.33
3	B	84	ASN	CA-C	-5.89	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	2	ILE	CA-C	-5.89	1.45	1.52
1	P	38	PRO	CA-CB	-5.89	1.45	1.53
2	A	173	ASP	N-CA	5.89	1.53	1.46
1	Q	15	THR	N-CA	5.89	1.53	1.46
3	F	194	PRO	CG-CD	5.89	1.67	1.51
1	Q	21	ASP	C-N	5.88	1.41	1.33
2	E	44	GLN	CG-CD	5.88	1.66	1.52
3	F	210	LYS	CB-CG	5.88	1.70	1.52
3	B	79	ALA	C-O	-5.88	1.17	1.24
3	H	114	VAL	N-CA	-5.88	1.39	1.46
3	H	191	SER	C-O	5.88	1.31	1.24
3	D	124	PRO	CB-CG	-5.88	1.20	1.49
2	E	7	SER	CA-CB	-5.88	1.44	1.53
3	H	117	SER	N-CA	-5.88	1.38	1.46
2	E	198	TYR	CZ-OH	5.88	1.50	1.38
3	H	153	GLU	C-O	-5.88	1.16	1.24
2	E	190	ASP	CA-CB	5.87	1.62	1.54
2	C	145	PHE	CA-C	5.87	1.59	1.52
3	D	78	THR	CB-OG1	5.87	1.53	1.43
3	F	41	PRO	N-CA	-5.87	1.41	1.46
4	N	64	TRP	CE3-CZ3	5.87	1.56	1.38
1	S	40	ARG	NE-CZ	-5.87	1.26	1.33
3	B	150	TYR	CG-CD2	-5.87	1.27	1.39
3	H	171	PHE	C-N	5.87	1.40	1.33
2	E	55	TYR	CE2-CZ	-5.86	1.24	1.38
2	G	71	ARG	C-O	5.86	1.29	1.24
4	M	69	GLU	N-CA	-5.86	1.38	1.46
1	P	35	TYR	CA-CB	5.86	1.63	1.53
2	A	147	PRO	CA-CB	-5.86	1.43	1.53
2	C	95	LYS	C-O	-5.86	1.16	1.23
2	A	181	MET	CG-SD	-5.86	1.66	1.80
4	M	77	ILE	CB-CG2	-5.86	1.33	1.52
2	E	93	TYR	CA-C	-5.86	1.45	1.52
2	E	130	GLN	CA-CB	5.86	1.62	1.53
4	L	79	PHE	CG-CD1	-5.85	1.26	1.38
3	H	143	LEU	C-O	-5.85	1.16	1.24
2	G	1	ASP	C-O	-5.85	1.11	1.23
2	G	190	ASP	CB-CG	5.85	1.66	1.52
3	B	13	LYS	N-CA	5.85	1.55	1.45
3	D	67	ARG	CB-CG	5.85	1.70	1.52
2	C	60	ARG	C-O	-5.85	1.16	1.23
3	B	158	THR	N-CA	-5.84	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	76	ASN	CA-CB	5.84	1.61	1.53
2	C	60	ARG	CZ-NH1	5.84	1.41	1.32
3	D	21	SER	CA-C	-5.84	1.45	1.52
2	E	115	ALA	C-O	5.84	1.31	1.23
2	E	142	LEU	CB-CG	5.84	1.65	1.53
2	G	69	THR	CB-CG2	5.84	1.71	1.52
3	B	97	ALA	N-CA	-5.84	1.38	1.45
4	L	31	ASP	C-O	-5.84	1.16	1.24
4	L	59	LYS	CA-C	-5.84	1.45	1.52
3	H	120	LYS	CA-C	-5.84	1.45	1.52
2	A	33	ARG	CA-C	-5.84	1.44	1.52
3	B	120	LYS	CG-CD	5.84	1.70	1.52
2	G	113	LYS	N-CA	5.84	1.53	1.45
2	A	215	PHE	N-CA	5.84	1.53	1.46
4	L	23	ILE	C-N	-5.84	1.25	1.33
2	E	83	SER	CA-CB	5.84	1.61	1.53
3	F	176	GLN	N-CA	5.84	1.53	1.45
2	G	198	TYR	C-O	5.84	1.30	1.23
3	F	212	ASP	C-O	-5.83	1.17	1.23
3	H	186	VAL	CA-CB	5.83	1.62	1.54
2	A	189	LYS	C-N	-5.83	1.25	1.33
2	C	28	SER	C-O	5.83	1.31	1.24
2	A	41	TRP	CZ2-CH2	-5.83	1.26	1.37
2	G	105	GLY	C-O	-5.83	1.15	1.23
3	H	110	ALA	N-CA	5.83	1.53	1.46
2	A	179	TYR	C-O	-5.82	1.16	1.23
3	F	218	ARG	C-OXT	5.82	1.35	1.23
3	D	213	LYS	CG-CD	5.82	1.70	1.52
3	H	150	TYR	C-O	5.82	1.31	1.24
2	A	68	PHE	N-CA	5.82	1.52	1.45
3	D	160	ASN	CA-C	5.82	1.60	1.52
1	Q	15	THR	CA-CB	5.82	1.63	1.53
3	F	35	HIS	ND1-CE1	-5.82	1.26	1.32
3	F	187	THR	CA-CB	5.82	1.62	1.53
3	D	110	ALA	C-N	5.81	1.42	1.33
2	A	170	THR	N-CA	-5.81	1.39	1.46
3	H	32	PHE	CB-CG	5.81	1.64	1.50
2	C	114	ARG	N-CA	5.81	1.53	1.45
3	F	180	TYR	CG-CD1	-5.81	1.27	1.39
1	S	44	LEU	CA-CB	5.81	1.63	1.53
2	G	60	ARG	NE-CZ	5.81	1.39	1.33
3	F	217	PRO	C-O	5.80	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	S	42	PRO	N-CD	5.80	1.55	1.47
3	H	105	PHE	C-O	-5.80	1.16	1.23
3	B	22	CYS	CA-C	-5.80	1.45	1.52
2	G	77	PHE	CD1-CE1	-5.80	1.21	1.38
3	D	48	MET	N-CA	5.80	1.53	1.46
2	C	170	THR	CA-CB	5.80	1.62	1.53
2	E	33	ARG	NE-CZ	5.80	1.39	1.33
4	N	28	ILE	CA-CB	5.80	1.60	1.54
4	O	28	ILE	CA-C	-5.80	1.45	1.52
3	D	5	VAL	N-CA	-5.79	1.39	1.46
3	F	84	ASN	CB-CG	5.79	1.66	1.52
3	F	68	PHE	C-O	-5.79	1.17	1.23
3	F	214	LYS	CB-CG	5.79	1.69	1.52
3	F	197	THR	CB-OG1	-5.79	1.34	1.43
3	H	138	ASN	CB-CG	5.79	1.66	1.52
2	E	128	SER	C-N	-5.79	1.25	1.33
3	F	80	TYR	CA-C	-5.79	1.45	1.52
3	H	122	THR	C-O	-5.79	1.16	1.24
2	A	208	THR	CB-OG1	5.79	1.53	1.43
2	C	114	ARG	CB-CG	-5.79	1.35	1.52
3	B	193	TRP	CZ2-CH2	-5.78	1.26	1.37
3	B	208	SER	C-N	5.78	1.42	1.33
3	D	49	GLY	CA-C	5.78	1.60	1.51
3	F	99	PHE	CG-CD1	-5.78	1.26	1.38
3	H	80	TYR	C-N	5.78	1.40	1.33
3	B	32	PHE	CD2-CE2	-5.78	1.21	1.38
2	G	124	PHE	CE2-CZ	5.78	1.55	1.38
3	H	72	LEU	CB-CG	5.78	1.65	1.53
3	B	3	GLN	CA-C	-5.78	1.45	1.52
3	F	62	ASP	CG-OD1	5.78	1.36	1.25
2	E	173	ASP	C-N	-5.78	1.25	1.33
4	N	55	ALA	C-O	5.78	1.31	1.24
2	A	151	ASN	CG-OD1	-5.77	1.12	1.23
3	H	21	SER	C-O	5.77	1.30	1.23
3	H	126	VAL	CB-CG1	-5.77	1.33	1.52
2	A	8	PRO	N-CD	-5.77	1.39	1.47
2	A	181	MET	SD-CE	-5.77	1.65	1.79
3	F	91	THR	CA-CB	-5.77	1.45	1.52
3	D	120	LYS	CA-C	5.77	1.59	1.52
1	Q	24	PHE	CG-CD1	5.77	1.50	1.38
2	A	214	SER	C-O	-5.77	1.15	1.24
3	D	95	PHE	C-N	-5.77	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	185	LEU	CA-CB	-5.77	1.45	1.53
2	G	19	VAL	CA-C	-5.77	1.45	1.52
2	C	174	SER	N-CA	5.76	1.53	1.46
2	E	69	THR	CA-C	5.76	1.59	1.53
2	E	121	VAL	CB-CG2	-5.76	1.33	1.52
3	D	71	SER	C-O	5.76	1.30	1.23
2	E	198	TYR	CD2-CE2	-5.76	1.21	1.38
3	F	46	ASN	CA-C	-5.76	1.45	1.52
3	F	129	LEU	CA-C	5.76	1.59	1.53
2	G	30	LEU	CG-CD1	5.76	1.71	1.52
3	D	136	GLN	CB-CG	5.76	1.69	1.52
1	S	10	LYS	CA-C	5.76	1.60	1.52
3	H	143	LEU	CB-CG	-5.76	1.42	1.53
4	L	68	LEU	CG-CD2	5.76	1.71	1.52
4	L	79	PHE	CD2-CE2	-5.76	1.21	1.38
3	D	42	GLY	C-N	-5.76	1.23	1.33
3	D	121	THR	CA-CB	-5.76	1.45	1.53
2	C	99	ILE	N-CA	-5.75	1.41	1.45
2	C	111	GLU	N-CA	-5.75	1.38	1.46
3	F	50	TRP	CB-CG	-5.75	1.32	1.50
3	F	56	GLY	CA-C	-5.75	1.43	1.51
3	F	67	ARG	CB-CG	5.75	1.69	1.52
1	Q	20	GLN	CA-CB	-5.75	1.44	1.53
2	E	110	LEU	CG-CD2	-5.75	1.33	1.52
2	E	144	ASN	CA-CB	-5.75	1.43	1.53
4	N	66	ALA	CA-C	5.75	1.61	1.53
2	E	20	THR	N-CA	-5.75	1.39	1.46
3	H	5	VAL	C-O	-5.75	1.17	1.24
3	D	103	GLN	CA-C	-5.75	1.45	1.52
2	C	67	ARG	N-CA	-5.75	1.39	1.46
2	E	95	LYS	C-N	5.75	1.41	1.33
2	G	35	ARG	CZ-NH1	5.75	1.40	1.32
1	P	17	ARG	CA-C	5.74	1.65	1.52
2	C	6	GLN	C-O	-5.74	1.17	1.23
2	E	52	VAL	CB-CG2	5.74	1.71	1.52
4	N	23	ILE	N-CA	5.74	1.53	1.46
3	B	39	GLN	CG-CD	-5.74	1.37	1.52
2	E	75	THR	CA-C	5.74	1.59	1.52
2	E	122	SER	C-O	-5.74	1.17	1.23
3	F	32	PHE	C-N	-5.74	1.25	1.33
2	E	17	GLU	CD-OE2	5.74	1.36	1.25
4	N	59	LYS	CG-CD	5.74	1.69	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	32	PHE	CA-C	5.74	1.60	1.52
4	L	22	THR	CA-C	5.74	1.60	1.53
3	F	35	HIS	CG-ND1	-5.74	1.31	1.38
1	P	31	VAL	CA-CB	5.73	1.61	1.54
2	C	162	GLN	CB-CG	5.73	1.69	1.52
2	E	93	TYR	CG-CD1	-5.73	1.27	1.39
3	H	111	GLY	N-CA	-5.73	1.38	1.45
4	L	53	TYR	CE1-CZ	-5.73	1.24	1.38
3	F	136	GLN	CG-CD	5.73	1.66	1.52
2	G	35	ARG	CD-NE	5.73	1.54	1.46
3	H	128	PRO	CB-CG	-5.73	1.21	1.49
2	C	139	VAL	N-CA	5.73	1.52	1.46
3	F	98	ARG	CZ-NH1	5.73	1.40	1.32
2	G	44	GLN	CA-C	-5.73	1.46	1.53
3	H	186	VAL	N-CA	-5.73	1.39	1.46
3	B	83	ILE	CA-C	5.73	1.59	1.52
2	C	59	THR	N-CA	-5.73	1.38	1.46
3	D	82	GLN	CG-CD	5.73	1.66	1.52
2	A	147	PRO	C-N	5.72	1.41	1.33
2	E	199	THR	CA-CB	5.72	1.62	1.53
3	H	188	VAL	C-N	-5.72	1.27	1.33
4	O	41	GLY	N-CA	5.72	1.53	1.45
3	D	125	SER	CA-CB	5.72	1.63	1.53
4	M	51	TYR	CD1-CE1	-5.72	1.21	1.38
2	G	31	ASN	CG-OD1	5.72	1.34	1.23
2	E	81	ILE	CB-CG1	5.71	1.64	1.53
3	F	150	TYR	CZ-OH	-5.71	1.26	1.38
2	A	78	THR	CA-CB	-5.71	1.42	1.53
2	A	133	SER	CA-C	5.71	1.60	1.52
3	H	71	SER	C-N	5.71	1.42	1.33
2	A	133	SER	N-CA	5.71	1.53	1.46
3	B	126	VAL	CB-CG1	-5.71	1.33	1.52
4	O	55	ALA	CA-CB	5.71	1.63	1.53
3	D	138	ASN	CG-OD1	5.71	1.34	1.23
3	D	197	THR	C-O	-5.71	1.16	1.24
3	F	208	SER	N-CA	5.71	1.53	1.46
3	F	213	LYS	CA-C	5.71	1.59	1.52
2	A	210	PRO	CB-CG	-5.71	1.21	1.49
2	G	13	VAL	C-N	5.71	1.40	1.33
3	H	19	LYS	CG-CD	5.71	1.69	1.52
2	A	169	TRP	CE2-CZ2	5.71	1.51	1.39
2	C	34	THR	CA-C	-5.71	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	64	PHE	CA-C	-5.70	1.46	1.53
4	M	25	VAL	N-CA	5.70	1.53	1.46
3	F	58	PRO	C-O	-5.70	1.16	1.24
2	E	145	PHE	CA-CB	-5.70	1.44	1.53
2	C	159	SER	C-O	-5.70	1.16	1.23
3	F	34	MET	CA-CB	-5.70	1.42	1.53
2	G	63	GLY	C-N	-5.70	1.26	1.33
2	G	161	ARG	CD-NE	5.70	1.54	1.46
3	H	55	THR	C-N	-5.70	1.25	1.33
2	C	169	TRP	CZ3-CH2	5.70	1.54	1.40
2	C	105	GLY	CA-C	-5.70	1.46	1.52
2	C	149	ASP	N-CA	-5.70	1.38	1.46
3	H	205	PRO	N-CA	-5.70	1.39	1.47
2	G	75	THR	CB-CG2	5.69	1.71	1.52
2	A	123	ILE	CA-C	-5.69	1.45	1.52
3	H	20	ILE	C-O	-5.69	1.17	1.24
4	L	44	GLU	CA-CB	5.69	1.63	1.53
3	F	192	THR	C-O	5.69	1.32	1.24
1	S	10	LYS	CA-CB	5.69	1.63	1.53
3	B	164	LEU	C-O	-5.69	1.16	1.23
4	N	28	ILE	CA-C	-5.69	1.46	1.52
2	A	143	ASN	CB-CG	5.69	1.66	1.52
3	B	53	THR	CA-C	-5.69	1.45	1.52
2	G	113	LYS	C-N	5.69	1.41	1.33
2	A	23	CYS	C-O	5.68	1.31	1.24
2	A	37	ASN	C-O	5.68	1.31	1.24
3	B	129	LEU	C-O	-5.68	1.17	1.23
4	L	80	ALA	N-CA	5.68	1.53	1.46
4	M	36	THR	CA-CB	-5.68	1.45	1.53
3	H	139	SER	CA-CB	5.68	1.63	1.53
3	H	156	THR	C-O	5.68	1.30	1.23
2	A	139	VAL	C-O	5.68	1.29	1.24
2	G	146	TYR	CE2-CZ	-5.68	1.24	1.38
2	C	65	PRO	CA-CB	-5.68	1.45	1.53
3	F	56	GLY	C-O	-5.68	1.16	1.23
3	H	211	VAL	N-CA	-5.68	1.39	1.46
3	D	112	THR	CA-C	5.68	1.60	1.52
4	M	46	ALA	CA-CB	5.68	1.63	1.53
3	F	50	TRP	CA-CB	-5.68	1.46	1.53
3	H	62	ASP	CG-OD1	5.67	1.36	1.25
3	B	20	ILE	C-N	-5.67	1.25	1.33
3	B	165	SER	CA-C	-5.67	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	141	VAL	CA-C	5.67	1.59	1.52
2	A	104	PHE	C-O	-5.67	1.16	1.23
2	E	98	TYR	CG-CD2	-5.67	1.27	1.39
2	E	161	ARG	CZ-NH2	5.67	1.40	1.33
1	S	34	VAL	CA-CB	5.66	1.61	1.54
2	G	128	SER	C-N	-5.66	1.27	1.33
4	N	54	ALA	CA-CB	-5.66	1.44	1.53
3	B	8	GLY	CA-C	5.66	1.60	1.51
1	Q	16	ASN	CA-C	5.66	1.60	1.52
4	M	59	LYS	CB-CG	5.66	1.69	1.52
2	E	41	TRP	CE3-CZ3	-5.66	1.21	1.38
2	A	145	PHE	N-CA	-5.66	1.39	1.46
3	B	16	GLU	CA-C	-5.66	1.45	1.52
3	B	202	VAL	CB-CG1	-5.66	1.33	1.52
3	D	3	GLN	CD-NE2	5.66	1.45	1.33
3	D	14	PRO	CB-CG	-5.66	1.21	1.49
2	A	31	ASN	C-O	-5.65	1.17	1.24
2	E	140	CYS	C-O	5.65	1.30	1.23
3	B	18	VAL	CA-CB	-5.65	1.45	1.55
3	B	44	GLY	N-CA	5.65	1.51	1.45
3	D	212	ASP	C-O	-5.65	1.16	1.24
3	H	198	VAL	N-CA	5.65	1.53	1.46
2	A	110	LEU	CB-CG	5.65	1.64	1.53
4	M	80	ALA	CA-C	-5.65	1.45	1.52
3	F	8	GLY	N-CA	5.65	1.52	1.44
2	G	15	ALA	N-CA	-5.65	1.38	1.46
2	A	41	TRP	CG-CD2	-5.64	1.33	1.43
3	D	84	ASN	CB-CG	5.64	1.66	1.52
2	G	13	VAL	C-O	5.64	1.30	1.24
2	A	71	ARG	NE-CZ	5.64	1.39	1.33
3	B	211	VAL	CB-CG1	-5.64	1.33	1.52
3	F	78	THR	CA-CB	5.64	1.64	1.54
3	B	138	ASN	C-N	-5.64	1.26	1.33
3	D	36	TRP	CB-CG	-5.64	1.32	1.50
3	B	214	LYS	CA-C	-5.64	1.45	1.52
2	G	186	THR	N-CA	-5.64	1.39	1.46
3	D	42	GLY	C-O	-5.64	1.15	1.24
2	A	80	THR	C-O	5.64	1.30	1.24
2	G	89	GLN	CA-C	-5.64	1.44	1.52
2	G	102	LEU	N-CA	5.64	1.53	1.46
2	G	34	THR	C-O	-5.63	1.16	1.24
3	D	198	VAL	C-O	-5.63	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	77	PHE	C-N	5.63	1.41	1.33
2	C	161	ARG	CA-CB	-5.63	1.44	1.53
4	O	30	ALA	N-CA	5.63	1.53	1.46
2	A	43	GLN	N-CA	-5.63	1.39	1.46
2	A	78	THR	C-N	5.63	1.41	1.33
4	L	67	ASP	CG-OD2	5.63	1.36	1.25
3	F	9	PRO	N-CD	-5.63	1.39	1.47
3	H	15	GLY	N-CA	5.63	1.53	1.45
4	N	57	HIS	C-O	-5.63	1.16	1.24
2	G	168	SER	C-O	5.63	1.30	1.23
3	H	196	GLU	CD-OE2	5.63	1.36	1.25
2	C	106	ALA	N-CA	-5.62	1.39	1.46
3	H	158	THR	CA-C	5.62	1.59	1.52
2	A	184	THR	CB-OG1	5.62	1.52	1.43
3	H	17	THR	C-O	5.62	1.30	1.23
4	L	56	LEU	N-CA	5.62	1.54	1.46
3	B	124	PRO	C-N	5.62	1.41	1.33
4	L	74	HIS	CA-C	-5.62	1.45	1.52
2	C	109	LYS	CG-CD	5.62	1.69	1.52
2	E	84	VAL	N-CA	-5.62	1.39	1.46
2	E	154	TRP	CD2-CE2	-5.62	1.31	1.41
3	F	181	THR	CB-OG1	5.62	1.52	1.43
4	O	76	ASN	N-CA	5.62	1.53	1.46
2	E	116	ASP	N-CA	-5.62	1.39	1.46
4	O	39	PHE	CG-CD2	-5.62	1.27	1.38
3	B	171	PHE	CA-CB	-5.61	1.46	1.53
3	H	110	ALA	C-O	5.61	1.31	1.24
3	H	138	ASN	CG-ND2	5.61	1.45	1.33
3	F	15	GLY	C-O	-5.61	1.16	1.23
2	C	14	SER	CB-OG	5.61	1.53	1.42
3	F	43	LYS	CG-CD	5.61	1.69	1.52
3	H	213	LYS	N-CA	5.61	1.52	1.46
2	E	30	LEU	CB-CG	5.61	1.64	1.53
3	F	179	LEU	CA-CB	5.61	1.60	1.52
4	N	56	LEU	N-CA	5.61	1.52	1.46
2	G	141	PHE	CE1-CZ	5.61	1.55	1.38
2	A	113	LYS	CA-C	-5.61	1.45	1.53
3	D	127	TYR	CZ-OH	-5.61	1.26	1.38
3	D	136	GLN	CD-NE2	5.60	1.45	1.33
2	A	20	THR	CA-CB	5.60	1.61	1.52
2	C	174	SER	CA-C	5.60	1.60	1.52
4	M	73	ASN	CB-CG	5.60	1.66	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	204	HIS	C-N	-5.60	1.20	1.33
2	E	154	TRP	CD2-CE3	-5.60	1.31	1.40
3	F	97	ALA	CA-CB	-5.60	1.40	1.53
3	B	99	PHE	C-N	-5.60	1.24	1.33
1	Q	13	ARG	CG-CD	5.60	1.69	1.52
2	G	94	CYS	CA-C	5.60	1.59	1.52
3	H	146	LEU	N-CA	-5.60	1.39	1.46
3	B	11	LEU	N-CA	5.60	1.52	1.45
2	C	105	GLY	C-N	-5.60	1.25	1.33
4	N	75	MET	SD-CE	-5.60	1.65	1.79
2	G	76	ASP	CB-CG	5.60	1.66	1.52
2	A	77	PHE	CD2-CE2	5.60	1.55	1.38
3	D	40	ALA	CA-CB	-5.60	1.44	1.53
3	D	74	THR	CA-CB	5.60	1.62	1.53
2	C	66	ASP	CG-OD2	5.59	1.35	1.25
2	E	143	ASN	CG-ND2	5.59	1.45	1.33
2	G	143	ASN	C-O	5.59	1.30	1.23
3	H	125	SER	N-CA	-5.59	1.39	1.46
2	A	179	TYR	CE2-CZ	-5.59	1.24	1.38
2	E	36	LYS	N-CA	5.59	1.53	1.46
2	E	169	TRP	CE2-CZ2	5.59	1.51	1.39
2	G	201	GLU	CD-OE2	5.59	1.35	1.25
2	A	59	THR	N-CA	5.59	1.53	1.46
3	B	71	SER	CB-OG	-5.59	1.30	1.42
1	Q	17	ARG	CG-CD	5.59	1.69	1.52
2	E	81	ILE	C-N	5.59	1.41	1.33
3	B	59	THR	CA-C	5.59	1.59	1.52
4	L	53	TYR	CA-CB	-5.59	1.46	1.54
2	C	88	ASP	C-O	5.59	1.31	1.24
2	G	139	VAL	CA-CB	5.58	1.62	1.54
2	A	116	ASP	C-N	5.58	1.41	1.33
3	H	82	GLN	C-O	5.58	1.30	1.24
3	H	129	LEU	CG-CD2	-5.58	1.34	1.52
2	A	41	TRP	C-O	5.58	1.30	1.24
3	F	60	TYR	CE1-CZ	5.58	1.51	1.38
4	L	48	ALA	CA-C	5.58	1.60	1.52
3	H	54	GLU	CG-CD	5.58	1.66	1.52
3	D	114	VAL	CA-CB	5.58	1.62	1.54
3	F	90	ASP	CG-OD2	5.58	1.35	1.25
2	A	202	ALA	CA-C	5.58	1.60	1.53
4	L	52	ARG	CD-NE	-5.58	1.38	1.46
2	G	97	ALA	C-O	-5.58	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	H	154	PRO	CA-C	-5.58	1.44	1.52
2	C	169	TRP	C-N	5.57	1.40	1.33
4	N	74	HIS	CA-CB	5.57	1.65	1.53
2	E	201	GLU	CA-C	-5.57	1.45	1.52
3	B	29	PHE	CA-C	-5.57	1.45	1.52
2	C	102	LEU	C-O	5.57	1.31	1.23
2	C	178	THR	CA-C	5.57	1.59	1.52
3	H	63	ASP	CA-C	5.57	1.60	1.52
2	G	123	ILE	CB-CG2	-5.57	1.34	1.52
2	E	18	LYS	CA-CB	-5.57	1.45	1.53
2	G	67	ARG	C-O	-5.57	1.17	1.24
2	G	195	HIS	C-O	5.57	1.30	1.24
3	H	119	ALA	N-CA	-5.57	1.39	1.46
3	H	175	LEU	C-O	-5.57	1.16	1.24
4	O	65	THR	CA-CB	-5.57	1.41	1.53
2	E	73	SER	N-CA	-5.56	1.39	1.46
2	E	116	ASP	CA-CB	-5.56	1.44	1.53
4	N	81	GLY	C-O	5.56	1.34	1.23
2	A	155	LYS	N-CA	-5.56	1.39	1.46
3	B	58	PRO	N-CD	-5.56	1.40	1.47
3	F	119	ALA	C-O	5.56	1.30	1.24
4	N	28	ILE	CG1-CD1	-5.56	1.30	1.51
2	A	110	LEU	CG-CD1	5.55	1.70	1.52
2	C	170	THR	CB-OG1	-5.55	1.34	1.43
2	G	117	ALA	CA-CB	5.55	1.61	1.53
2	G	168	SER	CA-C	-5.55	1.45	1.52
3	H	24	ALA	C-O	5.55	1.31	1.23
3	D	40	ALA	C-O	-5.55	1.16	1.23
4	L	24	LYS	CG-CD	5.55	1.69	1.52
3	D	128	PRO	CA-CB	-5.55	1.48	1.54
3	D	176	GLN	CA-C	5.55	1.60	1.52
2	E	179	TYR	CD1-CE1	-5.55	1.22	1.38
1	S	17	ARG	CD-NE	5.55	1.54	1.46
3	D	187	THR	C-N	5.55	1.39	1.33
3	F	212	ASP	CG-OD2	5.55	1.35	1.25
1	S	9	ARG	CA-CB	5.55	1.62	1.53
2	G	18	LYS	CA-CB	5.55	1.61	1.53
3	H	53	THR	N-CA	-5.55	1.39	1.46
2	A	77	PHE	CE2-CZ	5.55	1.55	1.38
3	D	184	SER	CA-CB	-5.55	1.42	1.53
3	B	96	CYS	CA-C	5.54	1.59	1.52
4	L	39	PHE	CG-CD2	-5.54	1.27	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	G	43	GLN	CA-C	5.54	1.59	1.52
2	A	68	PHE	CA-CB	5.54	1.63	1.53
3	F	120	LYS	C-O	-5.54	1.16	1.23
4	M	51	TYR	CA-CB	-5.54	1.44	1.53
2	E	140	CYS	CA-CB	5.54	1.65	1.53
1	S	42	PRO	CA-CB	5.54	1.61	1.53
2	A	112	LEU	CA-C	5.54	1.59	1.52
3	B	186	VAL	CA-C	-5.54	1.45	1.52
4	M	52	ARG	CA-CB	5.54	1.62	1.53
2	C	104	PHE	C-N	5.54	1.40	1.33
2	E	4	MET	C-N	5.54	1.41	1.33
3	F	197	THR	CA-CB	5.54	1.62	1.53
4	N	53	TYR	C-O	-5.54	1.17	1.24
3	H	101	LEU	C-N	5.54	1.41	1.33
2	A	81	ILE	CG1-CD1	-5.53	1.30	1.51
3	B	32	PHE	C-O	-5.53	1.17	1.24
2	G	65	PRO	C-N	5.53	1.41	1.33
2	A	67	ARG	CA-CB	5.53	1.62	1.53
2	E	21	MET	N-CA	-5.53	1.39	1.45
1	Q	9	ARG	NE-CZ	5.53	1.39	1.33
2	E	42	TYR	C-O	-5.53	1.16	1.23
4	O	79	PHE	CA-CB	-5.53	1.45	1.53
3	B	41	PRO	CG-CD	-5.53	1.31	1.50
3	F	87	LYS	CG-CD	5.53	1.69	1.52
3	F	113	THR	N-CA	-5.53	1.39	1.46
3	H	189	PRO	C-O	5.53	1.29	1.23
3	H	172	PRO	N-CA	5.52	1.53	1.46
3	F	79	ALA	CA-C	-5.52	1.45	1.52
4	L	45	GLU	C-N	-5.52	1.26	1.33
2	A	26	SER	N-CA	-5.52	1.39	1.46
2	E	59	THR	CB-OG1	5.52	1.52	1.43
3	F	106	ASP	CA-CB	5.52	1.62	1.53
2	A	124	PHE	C-N	5.51	1.39	1.33
3	B	142	THR	C-O	-5.51	1.16	1.23
4	M	34	ILE	CG1-CD1	-5.51	1.30	1.51
2	E	207	SER	CA-CB	5.51	1.62	1.53
2	G	2	ILE	CA-C	5.51	1.59	1.52
2	G	69	THR	CA-C	5.51	1.59	1.52
2	G	78	THR	C-O	-5.51	1.17	1.23
1	S	5	PRO	CG-CD	5.51	1.69	1.50
2	G	93	TYR	CD1-CE1	-5.51	1.22	1.38
4	L	51	TYR	CG-CD1	-5.50	1.27	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	92	TYR	CA-CB	-5.50	1.43	1.53
3	F	64	PHE	CE1-CZ	-5.50	1.22	1.38
2	G	216	ASN	CB-CG	-5.50	1.38	1.52
1	P	32	GLY	N-CA	5.50	1.53	1.45
3	H	215	ILE	C-O	-5.50	1.18	1.24
2	A	141	PHE	CG-CD1	-5.50	1.27	1.38
3	B	79	ALA	N-CA	5.50	1.52	1.46
4	L	33	LYS	C-O	-5.50	1.16	1.23
3	H	177	SER	N-CA	-5.50	1.38	1.46
3	B	190	SER	C-O	5.50	1.30	1.24
4	L	61	ASN	C-O	-5.50	1.17	1.24
2	G	92	TYR	CB-CG	-5.50	1.39	1.51
3	H	94	TYR	N-CA	5.50	1.53	1.46
3	D	145	CYS	C-O	-5.49	1.17	1.23
2	A	42	TYR	CD2-CE2	-5.49	1.22	1.38
2	A	151	ASN	C-O	-5.49	1.17	1.24
4	O	64	TRP	N-CA	-5.49	1.39	1.45
2	A	195	HIS	C-O	-5.49	1.17	1.24
3	D	174	VAL	C-O	5.49	1.29	1.24
2	E	10	SER	C-O	-5.49	1.16	1.23
2	A	192	TYR	CB-CG	-5.49	1.39	1.51
3	B	127	TYR	CG-CD2	-5.49	1.27	1.39
2	C	42	TYR	CG-CD1	-5.49	1.27	1.39
2	A	217	ARG	CA-CB	5.48	1.62	1.53
2	A	59	THR	CB-CG2	-5.48	1.34	1.52
4	L	49	GLU	C-N	5.48	1.41	1.33
3	H	166	SER	C-N	-5.48	1.25	1.33
2	C	192	TYR	CB-CG	5.48	1.63	1.51
2	A	27	GLN	CB-CG	-5.48	1.36	1.52
4	N	27	LEU	CG-CD1	-5.48	1.34	1.52
2	C	18	LYS	C-O	5.48	1.30	1.24
3	D	103	GLN	C-O	-5.48	1.17	1.24
1	S	9	ARG	CB-CG	5.48	1.68	1.52
3	F	188	VAL	CB-CG1	5.47	1.70	1.52
4	L	68	LEU	C-O	5.47	1.31	1.23
2	E	199	THR	C-N	-5.47	1.26	1.33
3	F	13	LYS	CB-CG	5.47	1.68	1.52
3	H	146	LEU	CA-C	5.47	1.60	1.53
1	S	30	ILE	CB-CG1	5.47	1.64	1.53
4	O	57	HIS	CA-CB	5.47	1.62	1.53
4	L	46	ALA	N-CA	5.47	1.52	1.46
2	C	48	GLN	CG-CD	5.46	1.65	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	30	THR	CA-C	-5.46	1.45	1.52
3	D	41	PRO	CA-C	5.46	1.60	1.52
2	C	206	THR	C-O	5.46	1.30	1.24
2	G	155	LYS	C-O	5.46	1.30	1.24
3	F	17	THR	CB-CG2	5.46	1.70	1.52
2	G	93	TYR	CA-C	-5.46	1.46	1.52
3	B	79	ALA	CA-CB	5.46	1.61	1.53
2	E	174	SER	CA-CB	5.46	1.62	1.53
3	H	105	PHE	CG-CD2	-5.46	1.27	1.38
4	O	44	GLU	C-N	5.46	1.41	1.33
2	C	1	ASP	N-CA	5.46	1.56	1.46
3	D	146	LEU	N-CA	5.46	1.52	1.46
2	A	126	PRO	C-O	-5.45	1.17	1.23
2	A	162	GLN	CB-CG	5.45	1.68	1.52
2	E	189	LYS	CA-C	-5.45	1.45	1.52
2	A	150	ILE	CA-C	-5.45	1.46	1.53
3	H	106	ASP	N-CA	-5.45	1.39	1.46
2	A	74	GLY	C-O	-5.45	1.16	1.23
2	C	65	PRO	CA-C	5.45	1.60	1.52
2	G	56	TRP	CA-C	5.45	1.60	1.53
2	C	80	THR	CA-CB	-5.45	1.45	1.53
3	D	120	LYS	CA-CB	5.45	1.66	1.53
2	A	57	ALA	C-O	5.44	1.30	1.24
3	B	70	PHE	CD2-CE2	5.44	1.54	1.38
3	D	193	TRP	CA-CB	-5.44	1.46	1.53
3	H	185	SER	N-CA	5.44	1.52	1.46
3	H	148	LYS	N-CA	-5.44	1.39	1.45
3	D	55	THR	CA-CB	5.44	1.62	1.53
2	G	149	ASP	CG-OD1	5.44	1.35	1.25
4	O	61	ASN	CA-CB	5.44	1.65	1.54
2	A	7	SER	CA-CB	-5.44	1.44	1.53
2	A	58	SER	N-CA	-5.44	1.38	1.46
3	D	82	GLN	CD-OE1	5.44	1.33	1.23
3	F	66	GLY	N-CA	-5.44	1.37	1.45
3	F	112	THR	N-CA	-5.44	1.39	1.46
1	S	2	SER	CB-OG	5.44	1.53	1.42
1	Q	10	LYS	CD-CE	5.44	1.68	1.52
2	A	28	SER	CA-CB	-5.43	1.44	1.53
3	D	6	GLN	CD-NE2	-5.43	1.21	1.33
3	F	163	SER	N-CA	-5.43	1.40	1.46
2	G	87	GLU	CA-C	-5.43	1.40	1.52
2	C	44	GLN	N-CA	5.43	1.54	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	96	GLN	CG-CD	5.43	1.65	1.52
3	F	69	ALA	C-O	-5.43	1.17	1.23
3	B	11	LEU	CB-CG	-5.43	1.42	1.53
4	L	74	HIS	N-CA	-5.43	1.39	1.46
3	D	122	THR	C-O	-5.43	1.17	1.24
3	F	178	ASP	CA-C	-5.43	1.46	1.53
2	E	10	SER	CA-C	5.42	1.59	1.52
2	E	188	THR	C-N	-5.42	1.26	1.33
3	D	98	ARG	CA-CB	-5.42	1.44	1.53
3	H	43	LYS	CB-CG	5.42	1.68	1.52
4	O	52	ARG	NE-CZ	5.42	1.39	1.33
2	A	205	LYS	CA-CB	5.42	1.62	1.53
2	E	38	TYR	CD1-CE1	-5.42	1.22	1.38
2	E	165	VAL	CB-CG1	5.42	1.70	1.52
2	C	84	VAL	C-O	5.42	1.30	1.24
3	H	132	GLY	C-O	5.42	1.31	1.23
3	H	146	LEU	C-N	5.42	1.40	1.33
3	D	181	THR	CB-OG1	-5.41	1.35	1.43
3	F	16	GLU	CA-C	-5.41	1.46	1.52
2	G	37	ASN	C-O	5.41	1.30	1.24
2	A	179	TYR	CA-CB	-5.41	1.44	1.53
3	D	14	PRO	C-N	5.41	1.41	1.33
3	H	10	GLU	CD-OE1	5.41	1.35	1.25
2	A	102	LEU	CG-CD1	-5.41	1.34	1.52
2	C	78	THR	CA-CB	5.41	1.64	1.53
4	N	62	GLY	C-O	-5.41	1.16	1.23
3	B	211	VAL	C-O	-5.41	1.18	1.24
4	M	24	LYS	N-CA	-5.41	1.39	1.46
2	E	173	ASP	C-O	-5.41	1.17	1.24
2	A	41	TRP	CD2-CE3	-5.41	1.31	1.40
2	C	93	TYR	CD2-CE2	-5.41	1.22	1.38
2	A	9	SER	C-N	5.40	1.40	1.33
3	F	48	MET	C-N	5.40	1.41	1.32
3	H	145	CYS	CA-C	-5.40	1.45	1.52
3	B	47	TRP	CA-CB	-5.40	1.46	1.52
4	L	70	ASP	C-O	-5.40	1.17	1.24
2	E	175	LYS	CA-CB	5.40	1.60	1.53
3	H	27	TYR	CE2-CZ	5.40	1.51	1.38
2	G	179	TYR	C-O	-5.40	1.17	1.24
3	H	212	ASP	C-O	-5.40	1.17	1.24
3	B	53	THR	CA-CB	-5.40	1.44	1.53
2	E	179	TYR	CE1-CZ	-5.40	1.25	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	200	CYS	N-CA	5.39	1.52	1.46
2	E	165	VAL	CB-CG2	5.39	1.70	1.52
2	C	171	ASP	CA-CB	5.39	1.62	1.53
2	A	118	ALA	CA-C	-5.39	1.46	1.52
3	B	148	LYS	N-CA	5.39	1.52	1.45
2	E	208	THR	CA-C	-5.39	1.45	1.52
2	G	164	GLY	C-N	5.39	1.40	1.33
2	C	74	GLY	CA-C	5.39	1.59	1.51
2	E	161	ARG	CD-NE	-5.39	1.38	1.46
3	H	48	MET	CA-CB	5.39	1.62	1.53
3	D	179	LEU	CA-C	5.38	1.59	1.52
1	S	9	ARG	CA-C	5.38	1.59	1.52
4	N	38	GLU	CG-CD	5.38	1.65	1.52
4	N	38	GLU	N-CA	-5.38	1.39	1.45
2	A	6	GLN	N-CA	-5.38	1.38	1.45
4	N	34	ILE	CG1-CD1	5.38	1.72	1.51
2	C	182	SER	C-N	-5.38	1.26	1.33
3	D	71	SER	CA-C	-5.38	1.46	1.52
3	H	193	TRP	C-O	-5.38	1.17	1.24
4	O	68	LEU	CG-CD1	5.38	1.70	1.52
3	H	192	THR	N-CA	5.38	1.53	1.46
3	B	171	PHE	CG-CD2	-5.37	1.27	1.38
2	C	142	LEU	C-O	-5.37	1.17	1.23
2	C	148	LYS	CD-CE	5.37	1.68	1.52
2	G	56	TRP	CZ3-CH2	-5.37	1.27	1.40
2	A	187	LEU	N-CA	5.37	1.52	1.46
2	C	124	PHE	CD2-CE2	-5.37	1.22	1.38
2	C	197	SER	C-O	-5.37	1.17	1.24
4	L	24	LYS	C-O	5.37	1.30	1.24
2	C	71	ARG	CD-NE	5.37	1.53	1.46
2	E	33	ARG	C-O	5.37	1.30	1.24
2	E	56	TRP	CD2-CE3	-5.37	1.31	1.40
3	F	215	ILE	CA-CB	-5.37	1.47	1.54
3	H	218	ARG	CA-CB	5.37	1.64	1.53
2	G	42	TYR	CD1-CE1	-5.37	1.22	1.38
3	H	78	THR	CB-OG1	5.37	1.52	1.43
4	N	49	GLU	CD-OE2	5.36	1.35	1.25
2	A	2	ILE	CB-CG1	-5.36	1.42	1.53
2	E	114	ARG	CA-CB	-5.36	1.45	1.53
2	G	55	TYR	CG-CD1	-5.36	1.28	1.39
3	B	125	SER	N-CA	-5.36	1.39	1.46
3	B	157	VAL	N-CA	5.36	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	30	LEU	N-CA	-5.36	1.39	1.46
2	G	138	VAL	CB-CG1	5.36	1.70	1.52
2	A	178	THR	CA-C	-5.36	1.45	1.53
2	A	216	ASN	CG-ND2	5.36	1.44	1.33
2	C	179	TYR	CB-CG	5.36	1.63	1.51
2	G	44	GLN	CG-CD	-5.36	1.38	1.52
2	G	126	PRO	CA-CB	-5.36	1.46	1.53
3	B	82	GLN	CG-CD	5.36	1.65	1.52
1	Q	30	ILE	CB-CG1	5.36	1.64	1.53
2	A	55	TYR	CD1-CE1	5.35	1.54	1.38
2	C	214	SER	C-N	-5.35	1.26	1.33
4	N	43	PHE	C-O	-5.35	1.17	1.24
2	C	18	LYS	C-N	-5.35	1.26	1.33
2	G	93	TYR	CG-CD2	-5.35	1.28	1.39
4	N	50	ALA	CA-C	-5.35	1.45	1.52
3	H	166	SER	CB-OG	5.35	1.52	1.42
3	B	208	SER	N-CA	-5.35	1.38	1.46
3	D	115	THR	C-O	-5.35	1.17	1.23
3	F	70	PHE	N-CA	5.35	1.53	1.46
3	F	167	GLY	N-CA	-5.35	1.37	1.45
3	D	44	GLY	CA-C	5.35	1.57	1.52
1	Q	6	LYS	CD-CE	5.35	1.68	1.52
2	G	33	ARG	CA-CB	5.35	1.61	1.54
2	A	101	PRO	CA-C	-5.34	1.42	1.52
2	A	217	ARG	C-N	5.34	1.43	1.33
3	B	206	ALA	CA-CB	-5.34	1.45	1.53
4	N	53	TYR	CZ-OH	-5.34	1.26	1.38
1	P	33	GLY	C-O	5.34	1.31	1.23
2	A	109	LYS	N-CA	-5.34	1.39	1.46
3	B	150	TYR	CE2-CZ	-5.34	1.25	1.38
3	F	104	TYR	CA-CB	-5.34	1.46	1.53
1	S	29	GLN	CA-CB	5.34	1.59	1.53
4	L	59	LYS	CE-NZ	5.34	1.65	1.49
2	E	131	LEU	CG-CD1	5.34	1.70	1.52
2	G	155	LYS	C-N	5.34	1.40	1.33
3	D	36	TRP	CE2-CZ2	5.34	1.51	1.39
2	A	61	GLU	C-O	-5.34	1.16	1.23
3	F	204	HIS	N-CA	-5.34	1.41	1.46
2	A	109	LYS	C-O	-5.33	1.17	1.24
2	G	69	THR	C-O	5.33	1.30	1.23
3	H	47	TRP	CA-C	-5.33	1.45	1.52
3	D	172	PRO	CA-CB	-5.33	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	202	VAL	C-O	-5.33	1.18	1.24
3	H	99	PHE	C-N	-5.33	1.26	1.33
4	O	43	PHE	CD2-CE2	-5.33	1.22	1.38
2	A	208	THR	C-O	-5.33	1.17	1.24
4	L	79	PHE	CA-C	-5.33	1.46	1.52
1	Q	16	ASN	C-N	5.33	1.40	1.33
2	G	175	LYS	C-N	-5.33	1.26	1.33
3	H	108	TRP	CG-CD1	-5.33	1.23	1.36
2	C	38	TYR	CG-CD2	5.33	1.50	1.39
4	O	74	HIS	N-CA	-5.33	1.39	1.45
1	P	31	VAL	CB-CG2	5.32	1.70	1.52
2	A	177	SER	CA-C	-5.32	1.46	1.53
4	L	52	ARG	CA-C	5.32	1.73	1.52
3	D	178	ASP	CA-CB	-5.32	1.44	1.53
3	H	179	LEU	C-O	5.32	1.30	1.24
4	L	44	GLU	C-N	5.32	1.41	1.33
2	A	79	LEU	CA-CB	-5.32	1.44	1.53
2	E	152	VAL	N-CA	-5.32	1.40	1.46
3	F	148	LYS	N-CA	-5.32	1.39	1.46
3	B	110	ALA	C-O	5.32	1.31	1.24
3	H	49	GLY	CA-C	5.32	1.57	1.51
3	B	89	GLU	CA-C	-5.32	1.44	1.52
3	D	76	ALA	C-N	-5.32	1.26	1.33
2	E	48	GLN	CB-CG	5.32	1.68	1.52
3	F	180	TYR	CD2-CE2	-5.32	1.22	1.38
3	F	151	PHE	CA-CB	5.31	1.61	1.53
2	G	53	LEU	CG-CD1	5.31	1.70	1.52
3	B	14	PRO	C-O	-5.31	1.17	1.24
2	G	98	TYR	CA-C	-5.31	1.45	1.52
2	C	137	SER	CA-C	5.31	1.59	1.52
2	G	9	SER	CA-CB	-5.31	1.46	1.53
3	B	171	PHE	CE1-CZ	-5.31	1.22	1.38
3	B	205	PRO	N-CD	-5.31	1.40	1.47
2	E	117	ALA	C-O	5.31	1.30	1.24
2	E	198	TYR	CA-C	5.31	1.59	1.52
2	G	23	CYS	C-N	5.30	1.41	1.33
3	H	171	PHE	CG-CD1	5.30	1.50	1.38
2	G	121	VAL	C-N	-5.30	1.26	1.33
4	O	23	ILE	C-N	-5.30	1.25	1.33
2	C	145	PHE	CG-CD1	-5.30	1.27	1.38
2	C	147	PRO	N-CD	5.30	1.55	1.47
3	F	11	LEU	N-CA	5.30	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	O	73	ASN	CA-CB	-5.30	1.45	1.53
3	F	20	ILE	CA-C	5.30	1.59	1.52
3	F	61	ALA	C-N	5.30	1.40	1.33
1	S	7	PRO	CB-CG	5.30	1.76	1.49
2	A	121	VAL	C-O	5.29	1.29	1.24
2	C	160	GLU	CB-CG	5.29	1.68	1.52
2	C	92	TYR	CG-CD2	-5.29	1.28	1.39
2	E	102	LEU	CA-C	5.29	1.59	1.52
2	E	151	ASN	CA-CB	-5.29	1.44	1.53
3	F	102	ARG	CD-NE	5.29	1.53	1.46
2	G	59	THR	CA-C	-5.29	1.45	1.52
2	A	81	ILE	CB-CG1	-5.29	1.42	1.53
3	F	218	ARG	CD-NE	5.29	1.53	1.46
2	G	195	HIS	CA-C	-5.29	1.45	1.52
4	M	26	ASN	CB-CG	-5.29	1.38	1.52
2	E	212	VAL	CA-CB	-5.29	1.47	1.54
2	G	20	THR	C-O	5.29	1.29	1.23
2	E	141	PHE	C-N	-5.29	1.26	1.33
3	F	12	LYS	CE-NZ	5.29	1.65	1.49
3	H	139	SER	CB-OG	5.29	1.52	1.42
3	B	195	SER	CB-OG	5.29	1.52	1.42
2	C	145	PHE	C-O	-5.29	1.17	1.23
2	C	145	PHE	CD1-CE1	-5.28	1.22	1.38
2	G	33	ARG	CG-CD	5.28	1.68	1.52
3	H	56	GLY	C-N	-5.28	1.25	1.33
3	F	12	LYS	C-O	5.28	1.30	1.23
3	F	115	THR	CA-CB	5.28	1.62	1.53
2	G	88	ASP	CA-C	5.28	1.60	1.52
2	G	129	GLU	CD-OE1	5.28	1.35	1.25
3	H	127	TYR	C-O	-5.28	1.17	1.24
2	C	35	ARG	CA-CB	5.27	1.62	1.53
3	D	60	TYR	CE2-CZ	-5.27	1.25	1.38
3	D	65	LYS	CD-CE	5.27	1.68	1.52
1	S	24	PHE	CG-CD2	5.27	1.50	1.38
2	G	37	ASN	C-N	5.27	1.41	1.33
4	L	35	GLN	CD-NE2	5.27	1.44	1.33
3	H	18	VAL	C-O	5.27	1.29	1.23
4	L	28	ILE	C-N	-5.27	1.26	1.33
2	C	171	ASP	CA-C	5.27	1.59	1.52
1	Q	10	LYS	CB-CG	5.27	1.68	1.52
2	E	155	LYS	N-CA	5.27	1.52	1.46
3	H	47	TRP	CB-CG	5.27	1.66	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	H	94	TYR	C-O	-5.27	1.17	1.24
3	H	100	LEU	N-CA	-5.27	1.38	1.45
2	E	208	THR	CB-CG2	5.26	1.70	1.52
3	H	3	GLN	CA-C	-5.26	1.46	1.52
3	H	214	LYS	CE-NZ	5.26	1.65	1.49
3	D	98	ARG	CB-CG	5.26	1.68	1.52
2	E	59	THR	N-CA	5.26	1.53	1.46
3	F	17	THR	CA-CB	5.26	1.62	1.53
2	G	17	GLU	C-O	-5.26	1.16	1.23
2	G	67	ARG	CA-C	5.26	1.59	1.52
3	B	59	THR	C-O	5.25	1.29	1.24
2	C	206	THR	C-N	5.25	1.41	1.33
1	S	17	ARG	CZ-NH1	5.25	1.40	1.32
2	G	170	THR	CA-CB	-5.25	1.45	1.53
3	F	104	TYR	CG-CD2	-5.25	1.28	1.39
3	F	194	PRO	N-CA	-5.25	1.38	1.47
4	N	44	GLU	N-CA	5.25	1.52	1.46
2	G	94	CYS	C-O	-5.25	1.18	1.24
2	C	141	PHE	CA-CB	5.25	1.60	1.53
3	F	45	LEU	CA-C	5.25	1.58	1.52
3	F	107	VAL	CA-C	-5.25	1.46	1.52
3	H	23	LYS	CB-CG	5.25	1.68	1.52
2	E	129	GLU	C-O	-5.25	1.17	1.24
2	A	105	GLY	N-CA	5.24	1.50	1.44
2	E	117	ALA	N-CA	5.24	1.52	1.46
2	C	189	LYS	CD-CE	5.24	1.68	1.52
2	E	131	LEU	C-O	-5.24	1.16	1.23
3	B	175	LEU	CA-C	5.24	1.60	1.53
1	S	34	VAL	CB-CG1	5.24	1.69	1.52
1	P	31	VAL	C-O	5.23	1.29	1.24
2	A	83	SER	N-CA	-5.23	1.39	1.46
3	D	90	ASP	C-N	5.23	1.41	1.33
3	F	108	TRP	CA-C	5.23	1.60	1.53
2	A	211	ILE	C-O	-5.23	1.18	1.24
3	B	146	LEU	N-CA	5.23	1.52	1.46
4	M	43	PHE	CB-CG	5.23	1.62	1.50
4	N	74	HIS	CA-C	-5.23	1.46	1.52
3	H	210	LYS	CB-CG	-5.23	1.36	1.52
2	C	38	TYR	CE1-CZ	5.23	1.50	1.38
4	M	34	ILE	CB-CG2	5.23	1.69	1.52
4	N	56	LEU	CA-C	5.23	1.59	1.52
2	E	30	LEU	CA-C	5.23	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	115	ALA	N-CA	5.22	1.52	1.46
3	F	193	TRP	N-CA	5.22	1.53	1.46
2	G	3	VAL	N-CA	-5.22	1.39	1.46
3	H	121	THR	C-O	5.22	1.30	1.23
2	E	50	PRO	N-CD	-5.22	1.40	1.47
3	F	149	GLY	C-N	5.22	1.41	1.33
2	G	188	THR	CB-CG2	-5.22	1.35	1.52
2	G	197	SER	CA-CB	5.22	1.61	1.53
4	O	60	VAL	CA-CB	-5.22	1.47	1.54
2	A	11	LEU	C-O	5.22	1.30	1.24
3	B	15	GLY	C-O	5.22	1.30	1.23
3	B	103	GLN	CA-C	5.22	1.59	1.52
3	D	177	SER	C-O	5.22	1.30	1.24
1	S	18	ARG	CA-C	5.22	1.59	1.52
3	D	28	THR	C-O	-5.21	1.18	1.23
3	F	35	HIS	CE1-NE2	-5.21	1.27	1.32
4	N	21	VAL	CB-CG2	5.21	1.69	1.52
2	C	127	SER	N-CA	5.21	1.51	1.45
2	A	93	TYR	C-N	-5.21	1.26	1.33
3	B	100	LEU	N-CA	-5.21	1.39	1.45
2	C	124	PHE	CG-CD1	-5.21	1.27	1.38
4	O	76	ASN	CG-OD1	5.21	1.33	1.23
2	A	34	THR	CA-C	-5.21	1.46	1.52
3	B	140	MET	CG-SD	5.21	1.93	1.80
3	D	157	VAL	CA-C	-5.21	1.46	1.52
3	F	28	THR	CB-CG2	5.21	1.69	1.52
3	F	37	VAL	CB-CG1	5.21	1.69	1.52
3	D	33	SER	N-CA	-5.21	1.39	1.46
2	G	25	SER	CA-C	-5.20	1.45	1.52
3	F	99	PHE	CD2-CE2	-5.20	1.23	1.38
2	A	55	TYR	CG-CD2	-5.20	1.28	1.39
3	B	180	TYR	C-N	-5.20	1.25	1.33
4	L	29	PHE	C-N	-5.20	1.27	1.33
3	D	38	ASN	CB-CG	-5.20	1.39	1.52
1	Q	44	LEU	CA-C	5.20	1.59	1.52
2	E	139	VAL	CA-CB	-5.20	1.48	1.54
1	S	10	LYS	CB-CG	5.20	1.68	1.52
3	B	182	LEU	CA-CB	-5.19	1.45	1.53
3	D	142	THR	C-N	5.19	1.40	1.33
4	M	37	ALA	C-N	5.19	1.40	1.33
3	H	158	THR	CB-OG1	5.19	1.52	1.43
3	B	8	GLY	N-CA	5.19	1.51	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	72	GLY	C-O	5.19	1.31	1.24
2	E	68	PHE	CE1-CZ	-5.19	1.23	1.38
2	E	164	GLY	N-CA	5.19	1.52	1.45
4	O	77	ILE	C-O	5.19	1.30	1.24
2	E	180	SER	CA-C	5.19	1.58	1.52
3	F	169	HIS	CB-CG	5.19	1.57	1.50
4	L	72	GLY	C-N	5.19	1.41	1.33
2	A	3	VAL	C-O	-5.19	1.17	1.24
4	N	39	PHE	CG-CD2	-5.19	1.27	1.38
4	N	48	ALA	CA-CB	5.18	1.61	1.54
3	H	1	GLN	CA-CB	5.18	1.63	1.53
4	O	75	MET	CG-SD	-5.18	1.67	1.80
2	A	217	ARG	CZ-NH1	5.18	1.40	1.32
2	E	11	LEU	CA-CB	-5.18	1.44	1.53
2	E	200	CYS	CA-CB	-5.18	1.44	1.53
2	A	191	GLU	CA-CB	5.18	1.62	1.53
3	B	155	VAL	CB-CG2	-5.18	1.35	1.52
2	E	93	TYR	CD1-CE1	5.18	1.54	1.38
3	H	15	GLY	C-N	-5.18	1.28	1.33
2	C	43	GLN	CA-CB	-5.18	1.44	1.53
3	F	72	LEU	C-O	5.18	1.30	1.23
4	M	30	ALA	C-N	-5.17	1.27	1.34
2	G	67	ARG	CB-CG	5.17	1.68	1.52
2	G	210	PRO	CA-C	-5.17	1.45	1.52
3	H	10	GLU	CA-C	5.17	1.58	1.52
2	A	54	ILE	CG1-CD1	5.17	1.72	1.51
3	H	64	PHE	CE2-CZ	-5.17	1.23	1.38
3	B	4	LEU	CA-C	-5.17	1.46	1.52
2	C	83	SER	N-CA	-5.17	1.39	1.46
3	H	59	THR	CA-CB	5.17	1.64	1.53
3	H	188	VAL	N-CA	5.17	1.52	1.46
4	M	53	TYR	C-N	-5.17	1.26	1.33
2	E	177	SER	CA-C	-5.17	1.46	1.53
2	E	185	LEU	N-CA	5.17	1.52	1.46
3	F	106	ASP	CG-OD2	5.17	1.35	1.25
1	S	23	LYS	C-O	5.17	1.30	1.24
2	C	85	GLN	CD-OE1	5.17	1.33	1.23
3	F	176	GLN	CA-C	5.17	1.58	1.52
1	P	33	GLY	N-CA	-5.16	1.39	1.45
2	A	26	SER	C-N	-5.16	1.27	1.33
3	H	184	SER	CA-CB	-5.16	1.44	1.53
4	O	20	GLU	N-CA	5.16	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	146	TYR	CG-CD2	-5.16	1.28	1.39
4	M	78	LYS	N-CA	-5.16	1.39	1.46
2	A	216	ASN	CB-CG	5.16	1.65	1.52
2	C	155	LYS	N-CA	-5.16	1.40	1.46
2	G	205	LYS	CB-CG	5.16	1.68	1.52
2	A	168	SER	N-CA	5.16	1.52	1.46
3	D	195	SER	CA-CB	5.16	1.59	1.53
4	N	34	ILE	CA-C	5.16	1.59	1.52
2	E	192	TYR	CB-CG	5.16	1.62	1.51
3	H	125	SER	C-O	-5.16	1.17	1.24
3	D	176	GLN	N-CA	5.15	1.52	1.46
2	E	126	PRO	C-N	-5.15	1.26	1.33
3	F	187	THR	C-O	5.15	1.29	1.24
2	A	50	PRO	CG-CD	-5.15	1.33	1.50
3	F	67	ARG	CZ-NH1	-5.15	1.25	1.32
3	F	2	ILE	C-O	-5.15	1.18	1.24
2	A	88	ASP	CG-OD2	5.15	1.35	1.25
3	D	50	TRP	CB-CG	5.15	1.66	1.50
3	H	165	SER	C-O	-5.15	1.17	1.24
2	G	192	TYR	C-N	-5.14	1.27	1.34
2	A	106	ALA	C-O	-5.14	1.17	1.24
4	M	24	LYS	C-N	-5.14	1.26	1.33
2	E	118	ALA	C-O	-5.14	1.16	1.24
3	H	14	PRO	C-N	5.14	1.41	1.33
2	A	131	LEU	CG-CD1	5.14	1.69	1.52
3	F	96	CYS	C-N	5.14	1.41	1.33
2	A	209	SER	CA-CB	5.13	1.64	1.53
3	H	18	VAL	CB-CG2	5.13	1.69	1.52
2	G	74	GLY	CA-C	5.13	1.59	1.51
3	F	24	ALA	CA-C	-5.13	1.46	1.52
3	F	195	SER	CA-CB	5.13	1.66	1.54
2	C	4	MET	CB-CG	5.13	1.67	1.52
2	E	144	ASN	CG-ND2	5.13	1.44	1.33
3	F	28	THR	N-CA	-5.13	1.39	1.46
2	G	148	LYS	CD-CE	-5.13	1.37	1.52
2	A	45	LYS	CE-NZ	5.12	1.64	1.49
3	B	67	ARG	CB-CG	-5.12	1.37	1.52
2	E	58	SER	CA-C	-5.12	1.46	1.52
3	H	5	VAL	CA-CB	-5.12	1.48	1.54
2	C	163	ASN	CA-CB	5.12	1.61	1.53
4	M	59	LYS	N-CA	5.12	1.52	1.46
4	M	57	HIS	CA-CB	5.12	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	2	ILE	N-CA	-5.12	1.40	1.46
2	E	154	TRP	C-O	-5.12	1.17	1.23
3	F	103	GLN	C-O	-5.12	1.17	1.24
4	N	43	PHE	CD2-CE2	-5.12	1.23	1.38
3	D	114	VAL	N-CA	-5.11	1.40	1.46
3	F	39	GLN	CD-OE1	-5.11	1.13	1.23
2	C	27	GLN	CB-CG	-5.11	1.37	1.52
3	B	154	PRO	C-N	5.11	1.41	1.33
2	G	194	ARG	CA-C	-5.11	1.46	1.52
3	B	100	LEU	CA-CB	5.11	1.60	1.53
2	G	114	ARG	N-CA	-5.11	1.39	1.46
3	B	209	THR	CB-CG2	-5.11	1.35	1.52
4	O	40	LYS	CB-CG	5.11	1.67	1.52
3	B	142	THR	C-N	-5.11	1.26	1.33
1	Q	10	LYS	C-N	5.11	1.37	1.33
3	H	181	THR	C-O	-5.11	1.17	1.23
4	O	43	PHE	C-O	-5.10	1.17	1.24
2	C	61	GLU	C-N	5.10	1.40	1.33
3	F	95	PHE	CG-CD1	-5.10	1.28	1.38
4	L	52	ARG	NE-CZ	-5.10	1.27	1.33
4	N	39	PHE	CD2-CE2	-5.10	1.23	1.38
3	D	133	SER	CA-C	5.10	1.59	1.52
4	M	22	THR	CB-OG1	-5.10	1.35	1.43
4	M	76	ASN	C-O	-5.10	1.17	1.24
3	F	16	GLU	C-N	-5.10	1.25	1.33
4	M	46	ALA	C-O	5.09	1.30	1.24
3	D	192	THR	CA-CB	-5.09	1.44	1.53
3	F	186	VAL	CA-C	5.09	1.59	1.52
3	H	91	THR	CB-CG2	-5.09	1.35	1.52
4	O	20	GLU	CA-CB	5.09	1.63	1.53
2	A	110	LEU	CA-CB	-5.09	1.45	1.53
3	D	98	ARG	CD-NE	-5.09	1.39	1.46
3	F	55	THR	CB-OG1	-5.09	1.35	1.43
1	S	36	LEU	C-O	5.09	1.30	1.24
3	F	140	MET	CG-SD	-5.09	1.68	1.80
2	A	32	SER	CA-CB	5.09	1.61	1.53
2	C	163	ASN	CA-C	5.09	1.59	1.52
3	D	101	LEU	CG-CD1	5.09	1.69	1.52
2	E	47	GLY	C-O	-5.09	1.16	1.23
3	B	79	ALA	CA-C	-5.08	1.46	1.52
3	D	120	LYS	CB-CG	5.08	1.67	1.52
2	E	90	ALA	N-CA	5.08	1.52	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	O	26	ASN	CA-C	-5.08	1.46	1.53
3	D	99	PHE	CD1-CE1	5.08	1.53	1.38
2	E	45	LYS	N-CA	5.08	1.53	1.46
3	F	65	LYS	CG-CD	5.08	1.67	1.52
3	B	104	TYR	CA-CB	-5.08	1.46	1.54
3	D	77	SER	CB-OG	5.08	1.52	1.42
2	E	35	ARG	C-N	5.08	1.40	1.33
2	A	36	LYS	CA-C	-5.08	1.46	1.52
2	E	14	SER	N-CA	-5.08	1.39	1.45
2	A	88	ASP	CA-CB	5.08	1.62	1.53
3	F	133	SER	CB-OG	5.08	1.52	1.42
2	G	92	TYR	CZ-OH	5.08	1.48	1.38
2	G	105	GLY	C-N	-5.08	1.27	1.33
3	B	33	SER	CA-C	-5.07	1.46	1.52
2	E	116	ASP	CB-CG	5.07	1.64	1.52
4	N	42	THR	N-CA	-5.07	1.39	1.46
3	D	124	PRO	N-CD	-5.07	1.40	1.47
2	A	17	GLU	CA-C	-5.07	1.46	1.53
3	D	105	PHE	CD1-CE1	-5.07	1.23	1.38
2	G	17	GLU	N-CA	-5.07	1.39	1.45
2	G	124	PHE	CD2-CE2	5.07	1.53	1.38
2	C	194	ARG	NE-CZ	5.07	1.38	1.33
2	G	73	SER	N-CA	5.07	1.52	1.46
3	D	154	PRO	CA-CB	-5.07	1.46	1.53
2	E	76	ASP	CG-OD2	5.07	1.34	1.25
2	G	109	LYS	CD-CE	5.07	1.67	1.52
2	G	124	PHE	CG-CD2	-5.06	1.28	1.38
3	F	46	ASN	CG-ND2	5.06	1.43	1.33
2	A	2	ILE	N-CA	-5.06	1.40	1.46
4	N	24	LYS	C-N	5.06	1.39	1.33
1	P	21	ASP	C-O	5.06	1.30	1.24
2	C	193	GLU	N-CA	5.06	1.52	1.46
2	E	182	SER	N-CA	5.06	1.53	1.46
3	F	137	THR	CA-C	-5.06	1.45	1.52
2	E	55	TYR	CA-C	-5.06	1.46	1.53
3	B	51	VAL	CB-CG2	5.05	1.69	1.52
3	H	96	CYS	C-N	-5.05	1.26	1.33
2	A	32	SER	C-N	-5.05	1.27	1.34
2	C	79	LEU	N-CA	-5.05	1.39	1.46
2	G	133	SER	N-CA	5.05	1.52	1.46
4	O	49	GLU	CD-OE2	5.05	1.34	1.25
2	C	82	SER	CB-OG	5.05	1.52	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	15	GLY	C-N	-5.05	1.26	1.33
3	D	15	GLY	N-CA	-5.05	1.38	1.45
4	M	38	GLU	CA-CB	5.05	1.64	1.54
3	D	179	LEU	CA-CB	5.05	1.62	1.53
3	F	92	ALA	CA-C	-5.05	1.46	1.52
3	F	211	VAL	N-CA	5.05	1.52	1.46
2	G	89	GLN	CB-CG	-5.05	1.37	1.52
1	P	20	GLN	C-O	5.05	1.30	1.24
2	E	17	GLU	CG-CD	5.05	1.64	1.52
3	F	183	SER	CB-OG	-5.05	1.32	1.42
2	G	139	VAL	CB-CG1	-5.04	1.35	1.52
2	A	77	PHE	CD1-CE1	5.04	1.53	1.38
2	A	187	LEU	CG-CD1	-5.04	1.35	1.52
3	B	94	TYR	CG-CD1	5.04	1.50	1.39
3	B	104	TYR	C-O	5.04	1.29	1.24
1	Q	4	ASN	CA-CB	5.04	1.61	1.53
4	M	20	GLU	CA-C	5.04	1.63	1.52
4	M	70	ASP	N-CA	5.04	1.54	1.46
2	E	194	ARG	N-CA	-5.04	1.39	1.46
2	A	92	TYR	CB-CG	5.04	1.62	1.51
3	B	210	LYS	CD-CE	5.04	1.67	1.52
2	G	152	VAL	C-N	5.04	1.40	1.33
3	H	86	LEU	CA-C	-5.04	1.46	1.52
3	D	159	TRP	CG-CD1	-5.04	1.24	1.36
2	A	108	THR	N-CA	-5.04	1.40	1.46
3	B	148	LYS	C-N	5.04	1.40	1.33
3	F	139	SER	CB-OG	5.04	1.52	1.42
4	L	20	GLU	CD-OE1	5.04	1.34	1.25
4	N	65	THR	C-N	-5.04	1.25	1.33
2	G	28	SER	CA-CB	5.04	1.61	1.53
2	A	138	VAL	N-CA	-5.03	1.40	1.46
3	B	153	GLU	CA-C	-5.03	1.46	1.52
3	B	178	ASP	N-CA	-5.03	1.39	1.46
3	B	126	VAL	C-N	-5.03	1.27	1.33
3	F	101	LEU	CG-CD1	5.03	1.69	1.52
3	D	164	LEU	C-O	-5.03	1.18	1.24
3	D	213	LYS	CA-CB	-5.03	1.45	1.53
2	E	79	LEU	C-N	5.03	1.41	1.33
3	F	54	GLU	CB-CG	-5.03	1.37	1.52
3	F	112	THR	CB-CG2	-5.03	1.35	1.52
2	G	114	ARG	CD-NE	-5.03	1.39	1.46
2	G	115	ALA	CA-CB	5.03	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	H	76	ALA	CA-C	-5.03	1.45	1.52
2	C	142	LEU	CG-CD2	-5.03	1.35	1.52
3	B	39	GLN	CA-CB	5.03	1.61	1.53
3	F	37	VAL	CA-C	5.03	1.58	1.52
4	L	24	LYS	N-CA	5.03	1.52	1.46
2	E	212	VAL	C-N	5.03	1.40	1.33
3	H	39	GLN	CA-C	5.03	1.59	1.53
2	A	186	THR	C-N	5.02	1.39	1.33
2	E	160	GLU	C-O	-5.02	1.17	1.23
3	F	36	TRP	CA-C	5.02	1.58	1.52
2	G	177	SER	C-N	5.02	1.41	1.33
3	H	73	GLU	CD-OE1	5.02	1.34	1.25
3	D	145	CYS	C-N	5.02	1.40	1.33
1	Q	22	VAL	C-O	-5.02	1.18	1.24
3	F	217	PRO	CA-C	-5.02	1.45	1.52
2	C	25	SER	CA-C	5.02	1.59	1.52
2	E	112	LEU	C-N	-5.01	1.27	1.33
2	G	130	GLN	CD-NE2	5.01	1.43	1.33
2	C	152	VAL	C-O	5.01	1.29	1.23
3	D	153	GLU	CB-CG	5.01	1.67	1.52
2	G	24	LYS	CD-CE	5.01	1.67	1.52
3	D	19	LYS	CG-CD	5.01	1.67	1.52
2	G	41	TRP	N-CA	-5.01	1.40	1.46
3	B	41	PRO	CB-CG	-5.01	1.24	1.49
3	D	50	TRP	N-CA	5.01	1.52	1.46
3	F	96	CYS	N-CA	-5.01	1.39	1.46
3	F	175	LEU	CG-CD2	5.01	1.69	1.52
2	G	103	THR	N-CA	5.01	1.51	1.45
4	O	22	THR	C-O	5.01	1.29	1.23
3	B	117	SER	N-CA	5.01	1.52	1.46
3	F	75	SER	CA-CB	-5.01	1.45	1.53
3	B	138	ASN	N-CA	5.00	1.53	1.45
3	B	149	GLY	N-CA	5.00	1.52	1.45
2	C	215	PHE	CB-CG	5.00	1.62	1.50
3	H	77	SER	CA-C	5.00	1.60	1.53
3	F	134	ALA	C-N	-5.00	1.26	1.33

All (1281) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	6	LYS	CA-C-N	18.32	142.74	119.84
1	S	6	LYS	C-N-CA	18.32	142.74	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	100	PRO	N-CA-C	-14.24	93.33	110.70
3	B	90	ASP	N-CA-C	-13.31	97.01	113.38
2	G	66	ASP	N-CA-C	-13.11	97.29	113.02
2	E	88	ASP	N-CA-C	12.84	129.21	112.26
2	E	124	PHE	O-C-N	-12.13	113.26	121.88
2	E	214	SER	N-CA-C	12.12	126.40	109.18
2	C	99	ILE	CA-C-O	12.04	126.20	119.94
3	B	144	GLY	N-CA-C	11.98	128.98	112.57
3	F	137	THR	N-CA-C	-11.95	96.00	112.25
2	A	174	SER	N-CA-C	11.90	125.62	111.82
2	E	72	GLY	N-CA-C	11.74	123.10	111.95
3	B	9	PRO	N-CA-C	-11.70	93.70	111.13
2	C	56	TRP	N-CA-C	-11.63	99.04	113.23
2	G	67	ARG	N-CA-C	11.31	125.20	111.40
3	B	110	ALA	N-CA-C	-11.23	99.31	113.23
4	O	77	ILE	N-CA-C	11.18	122.73	106.85
2	A	131	LEU	N-CA-C	-11.18	97.81	112.34
2	A	209	SER	CA-C-N	11.05	130.97	120.03
2	A	209	SER	C-N-CA	11.05	130.97	120.03
4	L	30	ALA	N-CA-C	11.05	124.37	111.11
4	N	74	HIS	N-CA-C	-11.04	90.29	109.06
2	C	119	PRO	CA-C-O	-10.97	109.50	121.23
3	D	30	THR	N-CA-C	-10.92	96.63	113.89
3	B	143	LEU	CA-C-N	-10.90	112.73	122.43
3	B	143	LEU	C-N-CA	-10.90	112.73	122.43
3	F	94	TYR	N-CA-C	10.89	126.27	108.52
3	F	79	ALA	CA-C-O	-10.86	108.73	121.44
2	E	49	SER	N-CA-CB	-10.83	96.41	110.17
2	G	105	GLY	N-CA-C	-10.81	98.20	112.14
3	F	103	GLN	N-CA-C	10.71	133.62	110.80
3	H	122	THR	CA-C-N	10.65	131.35	120.38
3	H	122	THR	C-N-CA	10.65	131.35	120.38
4	L	21	VAL	N-CA-C	10.60	121.60	110.05
2	C	127	SER	N-CA-C	10.60	126.84	110.42
3	B	130	ALA	N-CA-C	-10.58	95.27	110.40
3	H	126	VAL	N-CA-C	10.56	124.16	108.54
2	A	182	SER	N-CA-C	10.39	125.46	108.52
2	A	181	MET	CA-C-O	-10.33	109.42	120.99
4	M	24	LYS	N-CA-C	10.32	127.27	108.17
2	E	124	PHE	CA-C-N	10.32	131.01	120.38
2	E	124	PHE	C-N-CA	10.32	131.01	120.38
1	S	20	GLN	N-CA-C	10.25	124.96	108.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	O	43	PHE	N-CA-C	-10.25	98.63	111.75
3	D	127	TYR	CA-C-N	10.20	134.06	120.79
3	D	127	TYR	C-N-CA	10.20	134.06	120.79
3	B	120	LYS	N-CA-C	10.13	124.75	109.25
4	L	53	TYR	N-CA-C	-10.13	101.24	114.31
3	H	185	SER	N-CA-C	10.12	124.94	108.55
3	H	79	ALA	CA-C-N	-10.01	108.95	122.16
3	H	79	ALA	C-N-CA	-10.01	108.95	122.16
2	C	80	THR	N-CA-C	10.01	124.75	108.34
2	G	127	SER	N-CA-C	9.99	125.15	109.07
4	M	79	PHE	N-CA-C	9.95	131.98	110.80
3	F	183	SER	N-CA-C	9.86	125.82	109.06
2	E	102	LEU	N-CA-C	-9.85	97.43	110.24
2	E	49	SER	CA-C-O	9.84	125.69	119.29
3	B	111	GLY	N-CA-C	9.80	125.39	112.65
2	A	124	PHE	CA-C-N	9.73	130.41	120.38
2	A	124	PHE	C-N-CA	9.73	130.41	120.38
2	A	169	TRP	CA-C-O	-9.73	109.95	121.05
2	G	177	SER	O-C-N	9.72	135.52	122.59
3	H	84	ASN	CA-C-O	-9.71	111.19	121.87
2	A	128	SER	N-CA-C	-9.65	99.24	111.02
3	F	89	GLU	N-CA-C	-9.63	101.55	113.20
3	B	124	PRO	CA-C-O	-9.62	109.45	122.15
3	B	213	LYS	CA-C-O	9.62	130.90	120.32
3	D	154	PRO	N-CD-CG	-9.60	88.80	103.20
3	H	127	TYR	CA-C-N	9.57	129.34	119.76
3	H	127	TYR	C-N-CA	9.57	129.34	119.76
2	C	192	TYR	N-CA-C	-9.54	99.38	111.02
3	B	69	ALA	CA-C-O	-9.44	110.42	121.46
3	H	131	PRO	CA-C-N	9.39	129.19	122.33
3	H	131	PRO	C-N-CA	9.39	129.19	122.33
2	G	81	ILE	N-CA-C	-9.34	99.52	112.50
2	A	156	ILE	O-C-N	9.33	134.08	122.32
2	E	80	THR	CA-C-O	9.33	131.39	120.66
2	A	181	MET	N-CA-C	9.26	123.53	108.99
2	G	6	GLN	CA-C-O	-9.26	110.01	120.66
3	H	32	PHE	N-CA-C	9.26	123.48	109.41
2	E	18	LYS	N-CA-C	-9.25	96.02	110.36
2	G	98	TYR	CB-CA-C	-9.23	92.05	110.42
2	E	24	LYS	CA-C-O	-9.22	110.38	120.43
3	F	80	TYR	CA-C-O	-9.17	110.42	121.06
3	H	215	ILE	N-CA-C	9.15	121.41	107.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	21	VAL	CB-CA-C	-9.14	101.53	111.59
2	C	93	TYR	CA-C-O	-9.12	110.11	121.78
2	A	109	LYS	N-CA-C	9.12	123.20	109.25
3	H	89	GLU	CB-CG-CD	9.12	128.10	112.60
3	H	98	ARG	CA-C-O	9.08	132.81	122.37
4	O	80	ALA	N-CA-C	-9.08	99.96	112.12
2	G	102	LEU	N-CA-C	-9.04	95.91	110.20
4	O	62	GLY	CA-C-O	-9.04	115.78	122.37
2	A	151	ASN	N-CA-C	8.97	120.09	108.34
3	F	98	ARG	N-CA-C	-8.91	97.09	110.28
3	B	37	VAL	O-C-N	-8.90	114.06	123.14
2	E	181	MET	N-CA-C	8.90	121.59	108.60
3	B	208	SER	CA-C-O	-8.88	111.64	122.03
3	F	6	GLN	N-CA-C	8.88	124.18	110.42
3	B	216	VAL	CA-C-N	8.87	130.93	119.84
3	B	216	VAL	C-N-CA	8.87	130.93	119.84
2	A	77	PHE	N-CA-C	8.83	124.39	110.17
3	H	170	THR	N-CA-CB	-8.80	97.60	110.53
2	A	125	PRO	N-CA-C	8.79	121.42	110.70
3	H	168	VAL	CB-CA-C	-8.79	99.59	111.80
1	Q	13	ARG	NE-CZ-NH1	-8.76	112.74	121.50
3	B	155	VAL	CG1-CB-CG2	-8.73	91.59	110.80
2	G	14	SER	N-CA-C	8.72	122.13	108.79
3	B	145	CYS	N-CA-C	-8.71	92.24	110.80
2	C	153	LYS	O-C-N	8.69	134.53	123.23
3	H	172	PRO	N-CA-CB	8.68	111.57	103.15
3	B	41	PRO	N-CD-CG	-8.67	90.20	103.20
4	M	63	GLU	N-CA-C	8.65	122.47	110.35
2	A	59	THR	N-CA-C	8.65	122.85	109.96
3	H	13	LYS	N-CA-C	-8.64	98.86	109.83
1	S	18	ARG	N-CA-C	8.61	128.83	109.81
2	A	90	ALA	N-CA-C	8.60	123.06	109.65
4	M	46	ALA	N-CA-C	8.59	122.75	111.75
2	A	126	PRO	CA-C-O	8.59	130.97	120.92
3	D	191	SER	O-C-N	8.54	131.26	122.03
4	M	38	GLU	CA-C-O	-8.53	111.45	121.44
2	E	139	VAL	CB-CA-C	-8.52	98.97	110.98
2	E	94	CYS	N-CA-C	8.50	122.90	108.02
3	F	41	PRO	N-CA-C	-8.47	97.62	111.77
3	F	21	SER	CA-C-O	-8.46	111.41	120.80
3	F	50	TRP	N-CA-C	8.46	119.11	108.45
2	G	35	ARG	NE-CZ-NH2	8.45	126.81	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	156	ILE	N-CA-C	8.45	119.93	108.11
3	F	173	ALA	N-CA-C	8.44	120.80	110.41
2	C	156	ILE	CB-CA-C	-8.44	100.75	110.96
1	S	13	ARG	N-CA-C	8.43	127.16	114.09
1	S	6	LYS	C-N-CD	-8.42	90.49	125.00
2	A	121	VAL	N-CA-C	8.41	120.99	108.54
2	E	170	THR	OG1-CB-CG2	-8.40	92.50	109.30
2	E	217	ARG	NE-CZ-NH2	8.40	126.76	119.20
2	C	45	LYS	N-CA-C	-8.38	99.19	109.83
2	C	57	ALA	N-CA-C	8.33	128.54	110.80
4	N	47	THR	N-CA-C	-8.31	103.26	113.15
3	B	5	VAL	N-CA-C	8.30	120.07	108.12
2	C	200	CYS	N-CA-C	8.29	122.03	108.52
3	B	211	VAL	O-C-N	-8.29	113.61	122.81
3	H	206	ALA	CA-C-O	-8.29	111.04	120.24
2	G	178	THR	OG1-CB-CG2	-8.28	92.74	109.30
2	G	27	GLN	N-CA-CB	-8.25	97.34	111.69
2	G	143	ASN	N-CA-C	8.24	123.27	109.76
3	H	197	THR	CB-CA-C	-8.23	94.96	110.51
4	N	28	ILE	N-CA-C	8.22	119.58	109.30
4	M	77	ILE	CB-CA-C	-8.21	99.78	111.19
2	G	130	GLN	N-CA-C	-8.21	102.30	111.82
2	E	79	LEU	CA-C-O	-8.17	111.52	120.92
4	L	25	VAL	CB-CA-C	-8.17	95.78	110.48
3	D	5	VAL	N-CA-C	-8.16	96.56	108.71
3	F	52	ASN	N-CA-C	-8.15	94.33	108.52
2	G	117	ALA	N-CA-C	8.15	120.75	109.18
2	E	44	GLN	O-C-N	-8.14	112.23	122.82
2	G	149	ASP	N-CA-C	-8.14	97.75	109.96
2	C	21	MET	CA-C-O	-8.14	111.56	120.92
3	D	210	LYS	N-CA-C	-8.13	96.50	109.59
3	F	212	ASP	CB-CA-C	-8.13	100.53	110.94
3	F	157	VAL	N-CA-CB	-8.12	101.85	111.60
3	D	86	LEU	N-CA-C	8.12	122.50	110.48
3	F	31	ASP	N-CA-C	8.10	128.06	110.80
3	D	43	LYS	CA-C-O	-8.09	110.08	120.84
3	F	184	SER	CA-C-O	-8.09	110.81	121.73
3	H	172	PRO	CA-N-CD	-8.09	100.67	112.00
2	G	2	ILE	N-CA-C	8.08	120.82	107.24
2	A	59	THR	CB-CA-C	-8.03	98.59	110.16
3	H	174	VAL	CA-C-O	8.03	129.31	120.48
2	C	60	ARG	NE-CZ-NH1	8.02	129.51	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	O	44	GLU	N-CA-C	-7.99	98.65	111.04
3	B	122	THR	CA-C-N	7.98	128.60	120.38
3	B	122	THR	C-N-CA	7.98	128.60	120.38
2	G	106	ALA	N-CA-C	7.97	120.74	111.02
3	B	60	TYR	O-C-N	-7.96	114.14	123.06
2	G	52	VAL	CB-CA-C	-7.96	100.65	111.63
3	F	126	VAL	N-CA-C	7.95	125.87	109.34
2	G	121	VAL	N-CA-C	7.95	120.10	109.37
2	G	173	ASP	CA-C-O	-7.94	112.66	121.87
2	G	174	SER	N-CA-C	-7.92	102.25	112.23
3	B	145	CYS	O-C-N	-7.91	112.07	122.59
3	D	211	VAL	CB-CA-C	-7.91	98.32	111.29
3	D	101	LEU	N-CA-C	-7.89	103.55	113.02
3	F	212	ASP	N-CA-C	-7.89	93.76	107.49
4	O	34	ILE	N-CA-CB	-7.88	98.23	111.23
3	F	197	THR	OG1-CB-CG2	-7.88	93.55	109.30
3	F	77	SER	O-C-N	7.87	133.06	122.59
4	O	62	GLY	N-CA-C	7.87	120.03	112.08
3	D	4	LEU	N-CA-C	7.87	121.30	107.61
3	B	156	THR	N-CA-C	7.86	124.13	107.70
3	F	68	PHE	CA-C-O	-7.86	112.51	121.15
2	E	95	LYS	CA-C-O	-7.85	112.08	121.66
3	D	2	ILE	N-CA-C	7.85	118.81	106.88
2	C	140	CYS	CA-C-O	7.84	129.16	119.98
1	Q	18	ARG	CA-C-N	7.84	129.64	119.84
1	Q	18	ARG	C-N-CA	7.84	129.64	119.84
2	A	198	TYR	CA-C-N	-7.82	110.31	122.59
2	A	198	TYR	C-N-CA	-7.82	110.31	122.59
3	H	178	ASP	CA-C-O	7.81	131.68	120.51
3	B	196	GLU	N-CA-C	7.79	123.96	109.24
2	E	192	TYR	N-CA-C	-7.76	100.86	112.04
2	E	63	GLY	O-C-N	7.75	130.71	122.65
4	N	24	LYS	N-CA-C	-7.74	96.61	109.46
3	D	35	HIS	N-CA-CB	7.74	122.66	111.05
3	H	214	LYS	N-CA-C	-7.74	98.10	109.63
3	B	121	THR	N-CA-C	-7.74	98.87	110.24
4	O	36	THR	N-CA-C	-7.73	94.33	110.80
2	G	21	MET	CA-C-O	-7.73	112.21	121.56
1	Q	40	ARG	NH1-CZ-NH2	-7.72	109.26	119.30
3	F	189	PRO	CB-CA-C	-7.72	105.38	111.87
3	B	109	GLY	CA-C-O	7.72	130.11	121.93
2	C	67	ARG	CA-C-N	-7.72	110.14	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	67	ARG	C-N-CA	-7.72	110.14	120.95
3	D	81	LEU	CB-CA-C	-7.71	99.54	110.34
3	H	9	PRO	CA-C-O	-7.71	113.18	121.27
2	E	191	GLU	N-CA-C	-7.69	103.87	113.18
3	D	172	PRO	CB-CA-C	-7.68	98.89	111.56
2	A	98	TYR	N-CA-C	-7.67	103.02	112.38
3	H	18	VAL	CA-CB-CG1	-7.66	97.37	110.40
3	H	179	LEU	CB-CA-C	-7.66	103.31	114.87
4	M	79	PHE	N-CA-CB	-7.62	97.61	110.49
3	D	182	LEU	CB-CA-C	-7.61	101.72	111.70
4	L	42	THR	CA-C-O	-7.61	111.95	120.70
3	H	124	PRO	N-CA-C	7.60	122.74	111.03
3	B	66	GLY	CA-C-O	-7.59	115.33	122.39
3	D	13	LYS	CA-C-N	7.59	129.33	119.84
3	D	13	LYS	C-N-CA	7.59	129.33	119.84
2	G	2	ILE	CB-CA-C	-7.55	101.74	110.73
3	D	34	MET	CB-CA-C	-7.55	96.66	109.72
3	F	179	LEU	CA-C-O	7.54	127.70	120.09
3	D	20	ILE	O-C-N	7.52	131.27	122.69
3	H	118	SER	O-C-N	7.52	131.00	122.27
2	C	188	THR	CA-C-O	7.52	129.93	121.51
3	B	73	GLU	CB-CG-CD	-7.51	99.83	112.60
1	Q	40	ARG	NE-CZ-NH1	7.51	129.01	121.50
2	A	104	PHE	N-CA-C	-7.50	98.84	110.17
4	L	50	ALA	CA-C-O	-7.50	111.92	120.24
3	D	14	PRO	CA-N-CD	-7.49	101.51	112.00
4	M	57	HIS	CA-C-O	7.48	128.40	120.70
2	C	137	SER	O-C-N	-7.47	114.50	123.16
3	H	5	VAL	CB-CA-C	-7.46	100.75	110.98
2	E	4	MET	CA-C-O	-7.46	112.33	120.24
3	D	14	PRO	CA-C-O	-7.43	107.07	120.60
3	D	61	ALA	N-CA-C	7.43	121.47	110.48
4	O	63	GLU	N-CA-C	7.41	121.45	110.48
4	O	33	LYS	N-CA-CB	-7.40	97.98	110.49
2	C	121	VAL	N-CA-CB	-7.39	99.04	111.23
4	N	33	LYS	N-CA-C	7.38	120.10	110.43
2	A	163	ASN	N-CA-C	7.38	120.69	108.96
2	G	35	ARG	NE-CZ-NH1	-7.38	114.12	121.50
2	G	54	ILE	CB-CA-C	-7.36	104.82	111.74
3	B	117	SER	N-CA-C	7.36	119.75	108.42
2	G	119	PRO	CA-C-O	-7.35	112.32	120.92
4	L	28	ILE	CA-C-O	-7.35	113.36	121.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	101	LEU	N-CA-C	7.35	121.34	112.38
3	F	122	THR	CA-C-N	7.35	127.95	120.38
3	F	122	THR	C-N-CA	7.35	127.95	120.38
4	O	51	TYR	CA-C-O	7.35	128.76	120.90
4	L	30	ALA	N-CA-CB	-7.34	99.00	109.94
3	D	78	THR	CA-CB-OG1	7.34	120.61	109.60
1	Q	41	GLY	CA-C-N	7.34	129.01	119.84
1	Q	41	GLY	C-N-CA	7.34	129.01	119.84
2	E	36	LYS	N-CA-C	7.33	120.74	108.13
3	B	133	SER	N-CA-C	-7.33	103.60	112.54
3	F	99	PHE	N-CA-C	7.32	123.30	107.49
2	C	161	ARG	NE-CZ-NH2	-7.32	112.61	119.20
2	C	145	PHE	N-CA-C	7.31	121.45	109.24
3	F	149	GLY	N-CA-C	7.31	130.51	113.18
2	G	201	GLU	O-C-N	7.31	132.43	122.48
3	F	127	TYR	CA-C-N	7.29	129.70	120.51
3	F	127	TYR	C-N-CA	7.29	129.70	120.51
4	O	73	ASN	N-CA-C	7.29	122.54	112.04
2	G	110	LEU	N-CA-C	7.28	119.82	110.65
3	H	28	THR	CA-C-O	7.26	128.91	120.49
3	B	121	THR	CA-CB-OG1	7.24	120.46	109.60
2	G	191	GLU	N-CA-C	-7.24	103.47	111.36
3	F	113	THR	N-CA-CB	-7.24	100.80	110.57
2	C	102	LEU	N-CA-C	-7.22	101.53	110.41
2	C	137	SER	CA-C-O	7.22	129.22	120.92
3	B	129	LEU	CA-C-O	-7.21	108.81	120.85
1	P	23	LYS	N-CA-C	-7.20	104.12	113.12
1	Q	30	ILE	CB-CA-C	-7.19	99.50	111.29
4	N	53	TYR	N-CA-C	-7.18	102.86	111.69
2	A	197	SER	N-CA-C	7.18	120.63	107.99
3	H	162	GLY	O-C-N	7.18	129.98	122.51
2	E	143	ASN	N-CA-C	7.18	121.08	110.46
2	A	120	THR	OG1-CB-CG2	-7.17	94.97	109.30
2	E	102	LEU	CD1-CG-CD2	-7.16	95.05	110.80
3	D	167	GLY	N-CA-C	-7.16	104.29	115.67
3	H	171	PHE	CA-C-N	7.15	127.72	120.14
3	H	171	PHE	C-N-CA	7.15	127.72	120.14
3	D	99	PHE	CA-C-O	-7.15	112.46	120.32
2	E	90	ALA	CA-C-O	-7.14	113.82	121.88
3	D	9	PRO	CA-N-CD	-7.13	102.01	112.00
3	H	88	ASN	N-CA-C	7.13	123.06	111.37
3	D	208	SER	N-CA-C	-7.13	102.09	113.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	29	GLN	N-CA-C	7.12	121.25	107.71
1	Q	17	ARG	NE-CZ-NH1	-7.10	114.40	121.50
2	E	48	GLN	N-CA-C	7.09	120.19	109.41
2	E	82	SER	N-CA-CB	-7.09	99.07	110.63
3	F	64	PHE	N-CA-C	7.09	125.90	110.80
3	F	98	ARG	NE-CZ-NH2	7.08	125.58	119.20
2	A	150	ILE	N-CA-CB	-7.07	104.53	112.45
3	B	90	ASP	CA-C-O	7.07	127.21	119.15
2	E	52	VAL	N-CA-C	7.06	118.82	109.21
3	F	18	VAL	CA-C-N	-7.06	113.26	123.00
3	F	18	VAL	C-N-CA	-7.06	113.26	123.00
4	O	23	ILE	N-CA-C	7.05	116.78	106.55
2	A	199	THR	CA-C-O	-7.04	113.21	121.44
4	O	74	HIS	N-CA-CB	-7.04	99.16	110.63
3	D	174	VAL	N-CA-C	7.03	119.34	107.18
2	E	53	LEU	CB-CA-C	-7.03	99.59	111.26
3	D	204	HIS	CB-CA-C	7.02	119.41	108.88
3	H	175	LEU	CD1-CG-CD2	7.00	126.20	110.80
4	N	63	GLU	CA-C-O	6.99	128.01	120.32
4	N	64	TRP	N-CA-C	6.98	121.23	110.20
2	C	60	ARG	NE-CZ-NH2	-6.98	112.92	119.20
2	A	210	PRO	CA-N-CD	-6.97	102.24	112.00
3	H	20	ILE	N-CA-C	6.96	123.82	109.34
3	B	98	ARG	NE-CZ-NH2	-6.96	112.94	119.20
4	L	79	PHE	CB-CA-C	-6.95	101.12	110.79
3	D	193	TRP	CB-CA-C	-6.95	98.34	108.84
4	L	37	ALA	N-CA-C	6.95	119.73	109.24
4	O	44	GLU	O-C-N	6.94	130.30	122.11
3	H	98	ARG	N-CA-CB	-6.92	101.22	110.57
2	A	49	SER	N-CA-C	-6.91	101.35	110.40
3	B	125	SER	N-CA-C	-6.90	97.33	109.06
2	C	124	PHE	CA-CB-CG	6.90	120.70	113.80
3	B	94	TYR	N-CA-C	6.89	120.26	110.14
3	H	214	LYS	CA-C-O	-6.89	113.25	120.89
4	L	17	PRO	O-C-N	6.88	134.01	123.00
2	C	5	SER	N-CA-C	6.88	119.70	107.80
3	H	28	THR	N-CA-C	-6.87	98.74	109.25
2	E	173	ASP	CA-C-O	6.87	130.33	120.51
2	G	193	GLU	O-C-N	6.87	130.26	122.22
1	Q	20	GLN	N-CA-C	6.87	119.68	107.80
4	L	52	ARG	NE-CZ-NH1	-6.86	114.64	121.50
3	D	174	VAL	CB-CA-C	-6.86	102.59	110.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	198	TYR	N-CA-C	6.84	119.90	108.20
2	G	171	ASP	CA-C-O	-6.84	114.19	121.99
2	E	139	VAL	N-CA-C	6.82	118.86	108.71
3	H	195	SER	N-CA-C	-6.81	96.29	110.80
3	H	109	GLY	N-CA-C	-6.80	101.90	112.85
2	G	63	GLY	CA-C-N	-6.79	109.57	122.13
2	G	63	GLY	C-N-CA	-6.79	109.57	122.13
3	F	189	PRO	N-CD-CG	6.79	113.39	103.20
3	B	174	VAL	CA-C-O	-6.78	114.09	121.28
4	M	50	ALA	N-CA-C	-6.78	103.97	111.36
3	D	145	CYS	CA-CB-SG	6.78	129.99	114.40
2	E	114	ARG	NE-CZ-NH2	6.78	125.30	119.20
3	F	111	GLY	O-C-N	-6.76	116.49	122.91
3	H	196	GLU	CA-C-O	-6.76	113.41	121.66
2	A	35	ARG	NE-CZ-NH2	6.76	125.28	119.20
2	A	89	GLN	O-C-N	6.76	131.75	122.29
3	D	122	THR	CA-C-N	6.76	127.34	120.38
3	D	122	THR	C-N-CA	6.76	127.34	120.38
2	G	173	ASP	O-C-N	6.76	130.49	122.79
3	D	155	VAL	N-CA-C	6.76	116.71	108.06
3	D	13	LYS	CB-CA-C	6.75	118.02	108.76
3	H	168	VAL	N-CA-C	6.74	117.18	107.88
2	G	38	TYR	CA-CB-CG	-6.74	101.77	113.90
2	A	121	VAL	CA-CB-CG2	-6.74	98.95	110.40
2	C	3	VAL	CB-CA-C	-6.73	100.13	110.50
4	O	74	HIS	CB-CA-C	6.73	120.88	109.50
2	A	86	ALA	N-CA-C	6.72	119.47	111.33
4	L	23	ILE	N-CA-CB	-6.72	103.43	111.90
3	D	194	PRO	N-CD-CG	-6.72	95.74	103.80
2	G	152	VAL	CA-CB-CG2	-6.71	98.99	110.40
4	M	37	ALA	O-C-N	6.71	130.77	122.92
2	G	192	TYR	N-CA-C	-6.71	103.77	112.23
3	H	125	SER	N-CA-C	-6.71	97.61	108.41
2	G	176	ASP	CA-C-O	6.69	130.08	120.51
3	F	81	LEU	O-C-N	-6.69	115.44	123.27
3	F	1	GLN	CB-CG-CD	6.68	123.96	112.60
2	A	65	PRO	CA-C-O	6.68	128.38	121.23
2	E	74	GLY	O-C-N	-6.68	114.02	122.70
3	F	199	THR	CA-C-O	-6.68	113.84	121.72
2	A	98	TYR	CA-C-O	-6.68	111.41	119.49
2	A	122	SER	CA-C-N	-6.67	114.91	123.19
2	A	122	SER	C-N-CA	-6.67	114.91	123.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	10	SER	CA-C-N	-6.67	110.60	122.74
2	C	10	SER	C-N-CA	-6.67	110.60	122.74
3	F	161	SER	CA-C-O	6.67	126.92	119.78
2	A	49	SER	CA-CB-OG	-6.67	97.77	111.10
3	D	14	PRO	O-C-N	6.66	131.63	122.64
2	G	52	VAL	CA-CB-CG1	-6.66	99.08	110.40
2	A	42	TYR	N-CA-C	6.66	120.01	108.76
3	D	143	LEU	CA-C-O	-6.66	113.51	121.56
3	B	154	PRO	N-CA-CB	-6.64	95.29	102.60
3	H	96	CYS	N-CA-CB	-6.64	100.51	111.74
3	B	171	PHE	CA-C-N	6.64	128.14	119.84
3	B	171	PHE	C-N-CA	6.64	128.14	119.84
3	F	98	ARG	NE-CZ-NH1	-6.63	114.87	121.50
4	M	62	GLY	CA-C-O	-6.63	109.04	120.57
3	D	142	THR	O-C-N	6.62	131.47	123.26
3	F	110	ALA	N-CA-CB	-6.62	99.30	110.49
2	G	109	LYS	CA-C-O	-6.62	113.15	120.69
3	B	44	GLY	CA-C-O	-6.62	115.66	122.28
3	B	57	GLU	CA-C-N	6.62	128.11	119.84
3	B	57	GLU	C-N-CA	6.62	128.11	119.84
2	C	22	SER	N-CA-C	6.60	119.66	108.90
2	C	127	SER	CB-CA-C	-6.60	98.91	109.80
3	D	103	GLN	CA-C-O	-6.59	111.08	120.51
3	F	32	PHE	O-C-N	-6.59	113.82	122.59
2	A	141	PHE	N-CA-C	6.59	119.89	108.76
2	E	3	VAL	CB-CA-C	-6.59	100.49	111.29
2	E	100	PRO	N-CD-CG	-6.58	93.33	103.20
3	B	211	VAL	CA-C-O	6.57	128.34	120.85
3	F	145	CYS	N-CA-C	-6.57	99.60	108.86
2	G	114	ARG	NE-CZ-NH1	-6.57	114.93	121.50
3	B	18	VAL	N-CA-C	6.57	119.45	108.81
3	D	123	PRO	CA-C-N	6.57	128.05	119.84
3	D	123	PRO	C-N-CA	6.57	128.05	119.84
4	O	35	GLN	N-CA-CB	-6.57	99.39	110.49
3	F	17	THR	CA-C-O	-6.56	114.21	121.89
4	N	22	THR	CB-CA-C	-6.56	96.34	110.45
3	H	146	LEU	N-CA-C	6.56	120.88	107.69
4	N	68	LEU	N-CA-C	6.56	124.77	110.80
3	H	56	GLY	O-C-N	-6.55	114.18	122.70
2	C	18	LYS	CB-CA-C	6.55	120.62	110.67
3	B	31	ASP	CA-C-O	6.54	126.12	119.97
2	E	143	ASN	CA-C-O	6.54	130.19	121.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	215	ILE	CA-C-O	-6.54	112.61	120.78
3	B	21	SER	CB-CA-C	-6.54	97.39	111.11
1	S	23	LYS	N-CA-C	6.54	124.72	110.80
2	C	4	MET	CA-C-O	-6.53	113.78	121.16
3	H	100	LEU	CA-C-O	6.53	129.44	121.87
2	G	101	PRO	CA-C-N	-6.53	112.08	121.42
2	G	101	PRO	C-N-CA	-6.53	112.08	121.42
4	M	79	PHE	CD1-CE1-CZ	6.53	131.75	120.00
4	L	47	THR	O-C-N	6.52	129.07	122.03
3	D	50	TRP	N-CA-C	6.52	117.07	107.88
4	M	55	ALA	N-CA-C	-6.52	103.87	110.97
2	A	14	SER	N-CA-C	6.52	119.80	109.50
3	H	174	VAL	N-CA-C	-6.51	96.93	107.28
2	C	62	SER	N-CA-C	-6.51	100.27	109.96
3	B	100	LEU	O-C-N	6.50	130.15	121.83
4	L	38	GLU	CB-CG-CD	6.50	123.65	112.60
2	G	170	THR	N-CA-C	6.50	120.88	109.96
2	G	150	ILE	N-CA-C	6.50	116.85	107.88
2	E	140	CYS	N-CA-C	-6.49	98.02	109.06
2	E	81	ILE	O-C-N	6.49	129.72	123.03
4	M	73	ASN	N-CA-C	6.49	121.47	112.45
3	H	16	GLU	N-CA-C	-6.49	99.82	108.19
3	F	45	LEU	N-CA-C	6.48	120.26	109.95
3	B	144	GLY	O-C-N	-6.48	115.99	122.86
2	C	15	ALA	N-CA-C	6.48	119.80	107.75
3	D	169	HIS	N-CA-C	6.48	119.01	107.80
3	B	72	LEU	CA-C-O	6.46	129.75	120.51
3	D	54	GLU	N-CA-C	6.46	120.42	112.54
3	H	174	VAL	O-C-N	-6.46	116.08	122.99
3	H	168	VAL	CA-C-O	6.46	126.38	120.96
2	A	115	ALA	N-CA-CB	-6.45	100.48	109.97
2	G	171	ASP	O-C-N	6.45	130.52	122.65
2	A	136	ALA	CA-C-N	-6.45	112.81	122.74
2	A	136	ALA	C-N-CA	-6.45	112.81	122.74
2	A	137	SER	N-CA-CB	-6.45	99.64	110.80
2	A	90	ALA	CA-C-O	-6.43	113.42	121.46
3	D	48	MET	N-CA-C	-6.43	105.57	113.41
3	H	192	THR	N-CA-C	6.43	120.84	113.19
2	C	91	VAL	N-CA-C	-6.42	99.47	108.27
2	E	25	SER	CA-C-O	-6.42	113.47	121.50
2	C	138	VAL	CB-CA-C	-6.42	102.12	111.68
3	B	129	LEU	N-CA-C	6.42	121.35	107.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	34	THR	N-CA-C	-6.41	104.61	112.88
4	O	25	VAL	CB-CA-C	-6.41	101.67	110.77
3	H	126	VAL	CB-CA-C	-6.41	103.58	111.08
2	A	169	TRP	O-C-N	6.40	130.57	123.01
3	B	158	THR	N-CA-C	-6.40	100.09	109.18
3	H	131	PRO	N-CD-CG	-6.40	93.60	103.20
2	C	103	THR	N-CA-C	6.40	118.81	108.32
3	F	178	ASP	CB-CG-OD2	6.40	133.12	118.40
4	O	53	TYR	N-CA-C	6.40	119.07	111.33
3	D	187	THR	CA-C-O	-6.40	113.76	121.05
4	N	77	ILE	N-CA-C	6.39	117.09	107.75
2	A	42	TYR	CA-CB-CG	6.39	125.41	113.90
4	N	69	GLU	N-CA-C	-6.39	97.18	110.80
2	C	109	LYS	CA-C-N	-6.39	114.54	122.84
2	C	109	LYS	C-N-CA	-6.39	114.54	122.84
3	D	158	THR	CA-C-O	-6.38	113.84	120.99
2	A	168	SER	CB-CA-C	-6.37	101.31	110.62
3	D	20	ILE	CB-CG1-CD1	-6.37	100.43	113.80
3	F	183	SER	CA-C-O	-6.36	112.97	120.60
2	A	72	GLY	CA-C-O	-6.36	118.09	122.22
2	C	174	SER	CA-C-O	6.35	127.11	119.61
2	E	8	PRO	N-CA-CB	6.35	109.59	102.60
4	L	46	ALA	O-C-N	6.34	128.94	122.09
4	N	25	VAL	N-CA-C	6.34	117.01	107.75
2	G	153	LYS	CB-CA-C	-6.34	96.79	109.79
2	C	122	SER	N-CA-CB	-6.34	99.78	110.49
2	A	209	SER	CB-CA-C	6.34	116.95	109.47
3	H	102	ARG	CB-CA-C	-6.34	100.55	111.45
3	D	171	PHE	CA-C-N	6.33	127.75	119.84
3	D	171	PHE	C-N-CA	6.33	127.75	119.84
3	D	92	ALA	O-C-N	6.33	129.80	122.84
2	E	178	THR	CA-C-O	6.33	127.34	120.32
3	F	94	TYR	N-CA-CB	-6.32	100.62	110.55
2	A	16	GLY	CA-C-O	6.32	126.15	119.07
2	E	71	ARG	NH1-CZ-NH2	-6.32	111.08	119.30
4	M	70	ASP	CA-C-O	-6.32	114.21	121.54
2	G	91	VAL	CA-CB-CG2	-6.32	99.66	110.40
2	A	123	ILE	N-CA-C	6.31	117.00	108.17
2	A	172	GLN	N-CA-CB	6.30	118.99	109.34
4	L	56	LEU	CA-C-O	-6.30	113.98	121.60
2	E	114	ARG	N-CA-C	-6.30	99.83	109.65
4	N	73	ASN	CA-CB-CG	6.29	118.89	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	122	THR	CA-C-O	6.29	125.63	119.22
3	B	124	PRO	O-C-N	6.28	130.58	123.04
3	B	146	LEU	CA-C-O	6.28	127.87	120.58
2	A	216	ASN	N-CA-C	6.28	119.05	107.99
3	F	18	VAL	CB-CA-C	-6.28	100.99	111.29
2	E	196	ASN	N-CA-C	6.28	123.82	114.09
4	L	61	ASN	N-CA-C	6.28	124.17	110.80
3	H	103	GLN	O-C-N	6.28	130.11	122.58
3	D	53	THR	CA-C-O	-6.28	111.54	120.51
2	E	94	CYS	CB-CA-C	-6.27	100.65	110.74
3	H	180	TYR	CA-C-O	-6.26	113.45	120.66
2	C	9	SER	O-C-N	6.26	128.30	121.85
3	B	57	GLU	CB-CA-C	6.26	118.66	109.08
4	M	63	GLU	CA-C-O	6.25	127.82	121.07
3	H	67	ARG	NE-CZ-NH1	-6.25	115.25	121.50
3	B	197	THR	N-CA-C	6.24	124.10	110.80
3	F	68	PHE	N-CA-C	6.24	119.04	110.24
2	G	202	ALA	N-CA-C	6.24	118.14	109.15
3	B	107	VAL	CB-CA-C	6.24	118.61	110.12
2	C	64	VAL	CG1-CB-CG2	-6.24	97.08	110.80
2	E	145	PHE	N-CA-C	6.24	118.33	108.79
3	D	204	HIS	CA-C-N	6.23	127.63	119.84
3	D	204	HIS	C-N-CA	6.23	127.63	119.84
2	G	118	ALA	N-CA-C	6.22	120.37	109.48
2	G	36	LYS	CB-CA-C	-6.22	98.78	110.16
2	E	60	ARG	NE-CZ-NH2	-6.22	113.60	119.20
3	H	162	GLY	N-CA-C	-6.22	105.81	116.01
2	A	84	VAL	CB-CA-C	-6.22	101.09	111.29
4	M	79	PHE	CG-CD1-CE1	-6.21	110.13	120.70
4	L	45	GLU	CB-CG-CD	6.21	123.16	112.60
4	L	22	THR	N-CA-CB	-6.21	100.83	110.46
2	C	109	LYS	CA-C-O	6.21	128.02	121.19
4	L	72	GLY	N-CA-C	-6.21	107.69	115.08
3	D	82	GLN	O-C-N	6.20	130.97	123.16
2	E	178	THR	O-C-N	-6.20	116.06	123.31
2	E	212	VAL	CA-C-O	-6.20	113.90	120.53
3	F	125	SER	N-CA-C	-6.20	95.70	108.53
2	C	177	SER	CA-C-O	6.19	129.36	120.51
3	F	186	VAL	N-CA-C	6.19	118.28	108.87
3	H	107	VAL	CB-CA-C	6.19	120.00	110.96
2	G	102	LEU	CA-C-O	-6.19	114.00	121.05
2	C	200	CYS	CB-CA-C	-6.18	100.05	110.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	101	LEU	N-CA-CB	-6.18	99.81	110.32
3	H	100	LEU	O-C-N	-6.18	115.74	122.79
3	F	101	LEU	O-C-N	-6.18	114.35	122.39
2	G	66	ASP	N-CA-CB	6.18	119.43	110.47
3	H	166	SER	CA-C-O	6.17	129.34	120.51
2	E	39	LEU	CA-C-O	-6.17	113.47	120.32
2	C	75	THR	CA-CB-OG1	-6.17	100.35	109.60
3	D	3	GLN	CA-C-N	6.17	131.07	121.76
3	D	3	GLN	C-N-CA	6.17	131.07	121.76
1	Q	23	LYS	N-CA-C	6.17	118.50	108.08
2	E	132	THR	CA-C-O	6.17	129.32	120.51
3	D	124	PRO	CA-N-CD	-6.16	103.37	112.00
3	F	212	ASP	O-C-N	-6.16	115.97	123.36
3	B	153	GLU	N-CA-C	-6.16	101.08	110.07
3	F	210	LYS	CA-C-O	6.16	126.31	120.09
2	A	181	MET	CA-C-N	-6.15	114.44	123.05
2	A	181	MET	C-N-CA	-6.15	114.44	123.05
3	H	177	SER	N-CA-C	-6.15	104.85	112.47
2	E	9	SER	N-CA-C	6.14	117.85	111.03
3	B	37	VAL	CA-C-O	6.14	127.72	120.72
3	H	93	THR	N-CA-C	6.14	123.88	110.80
3	H	72	LEU	N-CA-C	6.14	119.49	109.24
2	G	32	SER	N-CA-C	6.13	123.86	110.80
3	D	183	SER	CA-C-N	-6.13	111.83	122.37
3	D	183	SER	C-N-CA	-6.13	111.83	122.37
2	E	130	GLN	CA-CB-CG	6.13	126.35	114.10
2	G	14	SER	CB-CA-C	-6.12	99.23	110.62
4	O	25	VAL	N-CA-C	6.12	116.69	107.75
3	F	207	SER	N-CA-C	6.12	120.36	113.02
3	H	217	PRO	O-C-N	-6.12	116.99	122.93
3	D	150	TYR	CA-C-O	-6.12	114.90	121.38
3	D	33	SER	N-CA-C	-6.12	99.73	109.76
4	O	76	ASN	CB-CA-C	6.12	118.97	110.16
4	L	33	LYS	N-CA-C	6.11	119.11	110.50
2	E	189	LYS	O-C-N	6.11	130.72	122.59
2	E	86	ALA	O-C-N	6.11	130.72	122.59
2	G	53	LEU	N-CA-C	-6.11	105.73	113.43
3	D	20	ILE	CA-C-O	-6.10	113.73	121.48
3	F	162	GLY	O-C-N	6.10	129.27	122.50
4	O	61	ASN	CA-C-O	6.10	125.23	118.52
3	B	68	PHE	CA-C-N	-6.10	112.57	122.81
3	B	68	PHE	C-N-CA	-6.10	112.57	122.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	72	LEU	N-CA-C	6.09	117.38	107.32
3	D	24	ALA	CA-C-O	-6.09	114.53	121.72
4	L	42	THR	OG1-CB-CG2	-6.08	97.14	109.30
2	A	218	ASN	CA-CB-CG	-6.08	106.52	112.60
2	G	71	ARG	O-C-N	6.08	129.71	122.72
3	H	86	LEU	CA-C-N	6.07	132.12	122.59
3	H	86	LEU	C-N-CA	6.07	132.12	122.59
2	G	29	LEU	N-CA-C	6.07	117.72	110.44
3	B	182	LEU	CB-CA-C	-6.06	100.23	109.99
3	D	29	PHE	N-CA-C	6.06	123.71	110.80
2	A	184	THR	N-CA-C	6.05	117.71	109.11
2	G	36	LYS	CG-CD-CE	-6.05	97.37	111.30
2	G	91	VAL	CB-CA-C	-6.05	103.12	110.99
3	B	216	VAL	CA-C-O	-6.05	114.51	119.47
3	D	169	HIS	N-CA-CB	-6.05	101.47	110.90
3	F	208	SER	CB-CA-C	6.05	122.45	110.42
4	M	69	GLU	N-CA-C	6.04	123.67	110.80
4	N	56	LEU	N-CA-C	6.04	118.39	111.02
3	D	67	ARG	N-CA-C	6.04	123.67	110.80
2	G	53	LEU	CA-C-N	-6.04	115.93	121.97
2	G	53	LEU	C-N-CA	-6.04	115.93	121.97
2	A	170	THR	CA-CB-CG2	6.04	120.77	110.50
3	D	157	VAL	CB-CA-C	-6.03	101.64	110.81
2	E	213	LYS	O-C-N	6.03	131.08	123.12
2	A	162	GLN	N-CA-C	6.02	120.76	113.17
3	B	119	ALA	N-CA-C	6.02	123.62	110.80
2	E	98	TYR	N-CA-C	-6.01	104.29	111.69
3	F	24	ALA	N-CA-C	6.01	118.32	108.52
2	A	145	PHE	O-C-N	6.01	130.33	123.48
2	C	189	LYS	N-CA-C	-6.01	98.01	110.80
2	E	164	GLY	CA-C-O	6.00	125.67	119.01
3	B	44	GLY	N-CA-C	6.00	121.41	112.41
3	H	9	PRO	CB-CG-CD	-6.00	86.90	106.10
2	G	98	TYR	N-CA-C	5.99	123.55	110.80
2	G	178	THR	N-CA-C	5.98	119.76	107.37
3	F	123	PRO	CA-C-N	5.98	126.44	120.52
3	F	123	PRO	C-N-CA	5.98	126.44	120.52
2	E	148	LYS	CG-CD-CE	-5.98	97.55	111.30
4	M	39	PHE	CA-C-O	5.98	127.99	121.06
4	L	54	ALA	CA-C-O	5.98	126.87	120.24
1	S	29	GLN	CB-CA-C	-5.97	106.93	114.40
3	D	23	LYS	CA-C-O	-5.97	114.17	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	46	ASN	CA-C-O	5.97	126.69	120.30
2	A	180	SER	N-CA-C	-5.97	99.66	108.79
2	A	203	THR	N-CA-C	5.97	119.11	110.28
3	D	18	VAL	CA-C-N	-5.97	113.56	122.39
3	D	18	VAL	C-N-CA	-5.97	113.56	122.39
3	F	166	SER	CA-C-N	-5.97	113.82	122.29
3	F	166	SER	C-N-CA	-5.97	113.82	122.29
2	A	40	ALA	N-CA-CB	-5.96	100.45	111.13
4	L	62	GLY	CA-C-O	-5.96	117.08	122.57
3	H	83	ILE	N-CA-C	5.96	115.20	106.55
3	F	42	GLY	N-CA-C	-5.96	99.05	113.18
2	E	110	LEU	CB-CA-C	-5.96	103.59	111.82
2	E	153	LYS	N-CA-C	5.96	118.63	108.02
2	E	103	THR	N-CA-CB	-5.96	100.44	111.52
2	E	75	THR	N-CA-C	-5.96	105.34	114.16
3	D	25	SER	N-CA-C	5.95	118.19	108.55
3	F	111	GLY	N-CA-C	5.95	123.75	112.62
3	H	65	LYS	N-CA-C	-5.95	100.36	109.41
2	A	122	SER	N-CA-CB	-5.95	100.69	110.68
2	E	81	ILE	CA-C-N	-5.95	112.53	122.64
2	E	81	ILE	C-N-CA	-5.95	112.53	122.64
2	C	120	THR	O-C-N	-5.95	116.29	123.13
2	A	32	SER	CA-C-O	5.94	127.26	120.90
2	C	100	PRO	N-CA-C	5.94	117.95	110.70
3	F	8	GLY	CA-C-N	5.94	127.27	119.84
3	F	8	GLY	C-N-CA	5.94	127.27	119.84
2	E	175	LYS	N-CA-C	-5.94	103.36	111.56
4	M	39	PHE	N-CA-C	5.94	118.43	109.23
3	B	93	THR	CA-C-O	5.93	127.39	120.80
3	F	207	SER	CA-C-O	5.93	126.61	119.43
3	B	117	SER	CB-CA-C	-5.93	100.46	110.43
3	B	218	ARG	N-CA-CB	-5.93	100.42	110.50
2	E	17	GLU	N-CA-CB	5.93	118.83	110.36
2	G	88	ASP	CA-C-O	5.93	126.45	119.28
2	C	150	ILE	N-CA-CB	-5.92	102.58	112.06
2	C	55	TYR	CA-C-O	-5.92	114.12	120.75
2	E	24	LYS	O-C-N	5.92	129.96	123.27
2	E	168	SER	O-C-N	5.92	130.47	122.59
3	H	53	THR	N-CA-CB	-5.92	100.49	110.49
2	C	19	VAL	N-CA-C	5.92	116.45	108.17
2	E	40	ALA	N-CA-C	5.91	118.84	109.50
2	C	97	ALA	N-CA-C	-5.91	104.73	112.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	98	ARG	CA-C-O	-5.91	114.54	121.16
2	A	22	SER	N-CA-C	5.91	119.20	110.46
2	C	160	GLU	N-CA-C	-5.91	101.74	110.48
3	D	67	ARG	CA-C-O	5.91	128.95	120.51
3	H	118	SER	N-CA-CB	5.90	119.03	110.88
2	C	61	GLU	N-CA-C	-5.90	100.67	109.94
2	E	212	VAL	CB-CA-C	-5.90	102.34	110.96
2	G	129	GLU	N-CA-CB	-5.90	100.85	109.82
2	E	157	ASP	N-CA-CB	-5.90	100.52	110.49
2	E	62	SER	N-CA-C	5.90	119.52	110.20
3	B	166	SER	CA-C-N	-5.89	109.87	121.41
3	B	166	SER	C-N-CA	-5.89	109.87	121.41
3	B	201	ASN	N-CA-C	5.89	118.33	108.02
3	F	34	MET	N-CA-C	5.89	119.07	109.06
3	D	123	PRO	CB-CA-C	-5.89	103.74	110.92
2	A	23	CYS	O-C-N	5.88	130.42	122.59
3	B	3	GLN	O-C-N	5.88	130.07	123.48
3	H	213	LYS	N-CA-C	5.88	118.49	108.90
3	B	104	TYR	N-CA-C	5.88	116.19	108.07
1	Q	12	LYS	N-CA-C	5.88	118.11	108.52
4	O	75	MET	N-CA-C	5.88	118.36	107.60
2	C	189	LYS	CB-CA-C	5.88	122.12	110.42
3	D	155	VAL	CB-CA-C	-5.88	102.75	111.80
2	A	46	PRO	O-C-N	5.88	129.68	123.10
4	N	80	ALA	N-CA-C	5.87	118.79	108.75
4	M	60	VAL	CB-CA-C	-5.87	101.66	111.29
2	E	175	LYS	CB-CA-C	-5.87	102.02	111.18
3	F	77	SER	CA-C-O	-5.86	112.13	120.51
3	F	89	GLU	CB-CG-CD	5.86	122.57	112.60
2	E	110	LEU	CD1-CG-CD2	-5.86	97.91	110.80
2	A	18	LYS	N-CA-C	-5.85	99.86	109.40
3	F	5	VAL	CB-CA-C	-5.85	103.88	110.96
3	F	109	GLY	N-CA-C	5.85	121.39	111.04
1	P	33	GLY	N-CA-C	-5.85	102.15	110.63
3	H	103	GLN	CA-C-O	-5.85	114.81	121.65
2	G	152	VAL	N-CA-C	5.84	118.28	108.81
3	F	218	ARG	NH1-CZ-NH2	5.84	126.89	119.30
2	A	171	ASP	O-C-N	-5.84	115.79	123.21
3	H	69	ALA	CA-C-O	5.84	127.72	120.54
2	E	91	VAL	CA-CB-CG2	-5.84	100.47	110.40
2	G	62	SER	CB-CA-C	5.83	122.03	110.42
4	N	52	ARG	CA-C-O	5.83	126.69	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	82	GLN	N-CA-CB	-5.83	101.80	110.90
3	D	214	LYS	CA-C-O	-5.83	114.57	121.16
4	N	61	ASN	CA-C-O	5.83	125.55	119.14
3	D	127	TYR	CD1-CG-CD2	-5.83	109.36	118.10
4	O	45	GLU	N-CA-CB	5.83	120.33	110.49
4	O	35	GLN	O-C-N	-5.82	114.84	122.59
3	D	169	HIS	CA-C-N	-5.82	113.29	122.95
3	D	169	HIS	C-N-CA	-5.82	113.29	122.95
4	O	68	LEU	N-CA-C	5.82	118.96	109.59
2	C	17	GLU	CB-CG-CD	-5.82	102.71	112.60
3	B	89	GLU	N-CA-CB	-5.81	102.05	110.47
2	G	19	VAL	N-CA-C	5.81	116.84	108.48
2	G	183	SER	N-CA-C	-5.80	102.71	110.55
2	A	39	LEU	CB-CA-C	5.80	119.11	109.53
3	H	19	LYS	CA-C-N	-5.80	111.53	121.97
3	H	19	LYS	C-N-CA	-5.80	111.53	121.97
3	B	20	ILE	CB-CA-C	-5.80	103.81	111.70
3	H	78	THR	CA-C-N	5.80	131.64	122.94
3	H	78	THR	C-N-CA	5.80	131.64	122.94
3	B	148	LYS	N-CA-C	5.80	119.10	110.52
3	D	17	THR	CB-CA-C	-5.80	99.51	109.65
1	S	17	ARG	N-CA-C	5.80	122.32	113.51
2	C	200	CYS	CA-C-N	-5.79	114.80	122.85
2	C	200	CYS	C-N-CA	-5.79	114.80	122.85
2	C	212	VAL	N-CA-C	-5.79	99.99	108.97
3	H	84	ASN	O-C-N	5.79	129.52	122.75
4	L	23	ILE	CB-CA-C	-5.79	103.47	110.99
2	G	165	VAL	CA-C-N	-5.79	114.58	123.14
2	G	165	VAL	C-N-CA	-5.79	114.58	123.14
2	C	98	TYR	CA-C-N	-5.78	117.82	122.85
2	C	98	TYR	C-N-CA	-5.78	117.82	122.85
2	G	131	LEU	CD1-CG-CD2	-5.78	98.08	110.80
2	G	145	PHE	CA-C-O	-5.78	114.74	121.10
2	A	179	TYR	CA-C-O	-5.78	115.09	121.33
2	A	219	GLU	N-CA-C	5.78	122.15	114.12
2	A	113	LYS	N-CA-CB	-5.77	101.83	110.60
2	C	53	LEU	N-CA-C	5.76	120.59	112.93
2	C	125	PRO	N-CA-C	-5.76	103.67	110.70
2	C	126	PRO	N-CA-CB	-5.76	97.20	103.25
4	O	40	LYS	O-C-N	5.76	130.05	123.31
3	D	68	PHE	CA-C-N	-5.76	113.60	122.87
3	D	68	PHE	C-N-CA	-5.76	113.60	122.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	E	34	THR	CA-C-O	5.76	126.58	119.79
3	B	100	LEU	CA-C-O	-5.75	114.31	121.50
3	B	190	SER	O-C-N	5.75	130.25	122.59
3	D	92	ALA	CA-C-O	-5.75	114.67	120.77
2	C	117	ALA	N-CA-C	5.75	117.75	108.32
2	G	36	LYS	CA-C-N	-5.75	114.59	122.93
2	G	36	LYS	C-N-CA	-5.75	114.59	122.93
3	B	216	VAL	O-C-N	5.75	128.18	121.57
3	D	128	PRO	N-CA-CB	5.74	106.14	102.92
2	E	18	LYS	CA-C-O	5.74	128.77	121.82
2	E	100	PRO	CA-C-O	-5.74	112.23	120.56
4	L	50	ALA	N-CA-C	-5.74	104.63	111.69
2	A	5	SER	CA-C-O	-5.74	113.66	120.43
2	E	212	VAL	O-C-N	5.74	129.81	123.10
3	D	171	PHE	N-CA-C	5.73	122.47	109.81
4	M	52	ARG	O-C-N	5.73	128.19	122.12
4	O	65	THR	N-CA-CB	-5.73	102.47	111.23
2	A	67	ARG	CA-C-O	5.72	126.26	119.56
3	B	66	GLY	N-CA-C	-5.72	105.21	112.65
2	E	3	VAL	CA-C-O	-5.72	113.63	120.78
2	G	2	ILE	CA-C-O	5.72	125.92	120.31
2	A	192	TYR	O-C-N	5.72	129.81	122.03
3	D	25	SER	O-C-N	5.71	129.99	123.48
3	H	180	TYR	N-CA-C	5.71	118.78	109.24
2	G	20	THR	CB-CA-C	-5.71	100.09	109.80
3	D	158	THR	OG1-CB-CG2	-5.71	97.88	109.30
2	G	209	SER	CA-C-O	5.71	127.98	120.16
2	C	162	GLN	N-CA-C	-5.71	98.64	110.80
1	Q	35	TYR	CA-C-O	5.71	125.66	119.15
3	H	207	SER	N-CA-C	5.71	119.94	113.15
4	O	58	ALA	O-C-N	5.71	130.18	122.59
2	C	18	LYS	N-CA-C	-5.71	100.93	109.15
4	M	77	ILE	CG1-CB-CG2	-5.71	93.58	110.70
2	E	6	GLN	CA-C-O	-5.71	114.70	121.66
2	E	159	SER	CB-CA-C	5.71	121.38	109.68
2	G	128	SER	CA-C-N	-5.71	112.86	120.79
2	G	128	SER	C-N-CA	-5.71	112.86	120.79
2	G	1	ASP	CA-CB-CG	5.71	118.31	112.60
2	G	86	ALA	CA-C-O	5.70	126.47	120.42
2	G	186	THR	N-CA-CB	-5.70	101.13	110.43
4	L	34	ILE	CA-C-O	5.70	125.89	120.25
2	G	107	GLY	CA-C-O	-5.70	117.71	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	45	GLU	N-CA-C	-5.70	105.42	112.38
3	F	146	LEU	CD1-CG-CD2	-5.70	98.26	110.80
3	D	59	THR	OG1-CB-CG2	-5.70	97.91	109.30
2	C	185	LEU	N-CA-CB	-5.69	100.83	109.94
2	G	80	THR	O-C-N	-5.69	116.73	123.22
2	C	42	TYR	CA-C-O	-5.69	114.17	120.38
1	S	40	ARG	NE-CZ-NH1	-5.69	115.81	121.50
3	B	70	PHE	CD1-CE1-CZ	5.69	130.24	120.00
3	B	116	VAL	CG1-CB-CG2	-5.69	98.28	110.80
1	Q	19	PRO	N-CA-C	5.69	124.19	112.47
2	E	167	ASN	CA-C-O	-5.69	115.40	121.94
3	B	181	THR	CB-CA-C	-5.69	97.49	109.38
2	A	102	LEU	CB-CA-C	5.69	120.00	109.54
3	H	204	HIS	CB-CA-C	-5.69	103.37	109.85
1	Q	7	PRO	CA-CB-CG	-5.68	93.70	104.50
4	N	58	ALA	N-CA-CB	-5.68	100.88	110.49
3	D	196	GLU	N-CA-C	5.68	117.94	109.59
2	E	99	ILE	CA-CB-CG1	5.68	120.05	110.40
4	N	74	HIS	CA-CB-CG	5.68	119.48	113.80
2	A	139	VAL	N-CA-C	5.68	116.92	108.46
2	E	209	SER	CA-C-N	5.68	126.94	119.84
2	E	209	SER	C-N-CA	5.68	126.94	119.84
2	A	127	SER	CB-CA-C	-5.68	99.46	109.62
2	C	199	THR	CB-CA-C	5.67	120.91	109.68
2	E	8	PRO	O-C-N	5.67	131.88	121.10
3	F	32	PHE	CA-C-O	5.67	128.62	120.51
3	H	97	ALA	CA-C-O	-5.67	114.69	121.89
3	H	160	ASN	N-CA-C	-5.67	104.27	110.91
2	C	170	THR	N-CA-CB	5.67	118.30	109.97
3	H	43	LYS	O-C-N	5.66	129.16	121.74
3	F	137	THR	OG1-CB-CG2	-5.66	97.98	109.30
2	E	21	MET	N-CA-CB	-5.66	102.14	110.85
2	G	3	VAL	N-CA-C	-5.65	97.59	109.34
2	A	204	HIS	CB-CA-C	-5.65	99.18	110.42
3	F	52	ASN	CA-CB-CG	5.65	118.25	112.60
4	M	69	GLU	N-CA-CB	-5.64	100.95	110.49
3	F	73	GLU	CB-CG-CD	5.64	122.19	112.60
2	E	51	LYS	CA-C-O	-5.64	114.18	120.66
3	H	41	PRO	N-CA-C	5.64	124.08	112.47
3	D	186	VAL	CG1-CB-CG2	-5.64	98.40	110.80
3	B	1	GLN	CB-CG-CD	5.63	122.18	112.60
1	S	7	PRO	CB-CG-CD	-5.63	88.08	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	43	LYS	O-C-N	5.63	129.15	121.78
3	D	213	LYS	CG-CD-CE	5.62	124.23	111.30
2	G	104	PHE	N-CA-CB	5.62	119.99	110.49
4	N	78	LYS	N-CA-C	5.62	118.64	109.59
2	E	37	ASN	N-CA-C	-5.62	100.83	109.76
3	D	8	GLY	CA-C-N	5.61	126.85	119.84
3	D	8	GLY	C-N-CA	5.61	126.85	119.84
1	P	40	ARG	NE-CZ-NH2	-5.60	114.16	119.20
3	B	58	PRO	N-CA-C	5.60	124.01	112.47
3	B	123	PRO	CB-CA-C	-5.60	104.09	110.92
3	D	212	ASP	CA-C-O	-5.60	112.50	120.51
2	G	76	ASP	OD1-CG-OD2	-5.60	109.47	122.90
4	L	29	PHE	CA-C-N	-5.59	112.99	120.54
4	L	29	PHE	C-N-CA	-5.59	112.99	120.54
1	Q	37	LEU	CA-CB-CG	5.59	135.87	116.30
3	F	70	PHE	N-CA-C	5.59	118.64	107.62
2	A	139	VAL	N-CA-CB	-5.59	102.27	111.44
2	A	105	GLY	O-C-N	-5.59	114.80	123.13
2	A	137	SER	CA-C-N	-5.59	113.65	122.64
2	A	137	SER	C-N-CA	-5.59	113.65	122.64
3	B	39	GLN	CA-CB-CG	5.59	125.27	114.10
3	B	179	LEU	N-CA-CB	-5.59	101.50	110.77
4	O	68	LEU	O-C-N	5.59	130.31	123.21
3	D	98	ARG	N-CA-CB	-5.58	101.53	109.85
2	C	216	ASN	CB-CA-C	-5.58	100.74	109.84
3	H	193	TRP	CA-C-O	5.58	127.81	120.16
4	L	34	ILE	N-CA-C	-5.58	99.46	107.78
3	D	28	THR	CA-C-O	-5.58	114.64	121.67
3	F	98	ARG	O-C-N	5.58	129.69	122.89
2	C	96	GLN	CA-C-N	-5.57	113.74	122.49
2	C	96	GLN	C-N-CA	-5.57	113.74	122.49
3	D	3	GLN	O-C-N	5.57	130.43	122.74
3	B	129	LEU	O-C-N	5.57	131.11	122.87
2	C	199	THR	N-CA-CB	-5.57	101.05	111.13
2	G	177	SER	CA-C-O	-5.57	112.55	120.51
2	C	18	LYS	CA-C-O	5.56	127.23	120.62
2	E	201	GLU	CA-CB-CG	5.56	125.21	114.10
2	A	202	ALA	N-CA-C	5.55	118.86	107.69
3	B	127	TYR	O-C-N	-5.55	118.16	121.71
4	L	25	VAL	N-CA-C	5.55	117.04	108.44
4	O	24	LYS	N-CA-C	-5.55	100.76	109.25
2	E	50	PRO	CA-C-O	-5.55	110.50	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	178	ASP	N-CA-C	5.55	119.23	111.74
2	A	67	ARG	NE-CZ-NH2	5.54	124.19	119.20
2	G	65	PRO	O-C-N	5.54	130.12	122.64
3	B	120	LYS	CB-CA-C	-5.54	101.20	110.29
2	G	23	CYS	CA-C-O	-5.54	114.71	120.70
3	F	198	VAL	O-C-N	5.54	129.50	122.57
4	M	31	ASP	N-CA-C	5.54	118.83	111.75
2	G	139	VAL	N-CA-C	5.54	116.64	108.45
2	A	156	ILE	CA-C-O	-5.53	114.94	121.64
3	B	100	LEU	N-CA-CB	5.53	119.19	110.39
3	B	134	ALA	O-C-N	5.53	128.94	123.46
3	H	29	PHE	N-CA-C	5.53	118.07	111.71
3	B	148	LYS	CB-CA-C	-5.53	100.16	109.83
4	O	20	GLU	CA-C-O	-5.53	111.40	120.80
1	S	29	GLN	N-CA-CB	5.52	115.75	108.96
3	H	151	PHE	CA-C-O	5.52	127.73	120.16
3	D	125	SER	N-CA-C	-5.52	101.36	109.81
3	F	5	VAL	N-CA-CB	5.52	117.29	111.00
3	H	158	THR	CA-C-O	-5.52	114.72	121.78
3	B	131	PRO	N-CA-C	-5.51	101.11	112.47
1	Q	28	GLY	N-CA-C	5.51	126.24	113.18
2	E	171	ASP	N-CA-C	-5.51	99.07	110.80
3	B	103	GLN	N-CA-C	5.51	122.53	110.80
3	F	97	ALA	N-CA-C	5.51	118.43	109.24
2	G	145	PHE	N-CA-C	5.50	116.89	108.42
3	F	104	TYR	N-CA-C	5.50	115.38	108.45
2	E	27	GLN	N-CA-CB	-5.50	100.09	111.36
3	B	34	MET	CA-C-O	5.49	126.90	120.80
3	D	1	GLN	CA-CB-CG	5.49	125.08	114.10
4	L	53	TYR	O-C-N	-5.49	116.30	122.34
3	H	110	ALA	N-CA-C	5.49	119.98	113.28
4	L	67	ASP	O-C-N	5.49	129.89	122.59
3	F	122	THR	N-CA-C	5.49	117.88	110.31
3	H	105	PHE	N-CA-C	5.49	117.96	110.55
3	H	116	VAL	CG1-CB-CG2	5.49	122.87	110.80
3	B	172	PRO	N-CD-CG	-5.48	94.97	103.20
2	C	80	THR	CA-C-O	5.48	126.05	120.24
2	G	19	VAL	CB-CA-C	-5.48	102.46	110.62
3	F	198	VAL	CA-C-O	-5.47	113.94	120.78
2	C	20	THR	N-CA-C	5.47	117.76	108.02
4	M	70	ASP	O-C-N	5.47	129.56	122.40
2	A	189	LYS	CA-C-O	5.47	127.04	120.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	40	ARG	NE-CZ-NH1	5.46	126.96	121.50
2	G	38	TYR	N-CA-CB	-5.46	101.25	110.49
3	B	59	THR	N-CA-C	-5.46	99.38	108.34
4	L	64	TRP	O-C-N	5.46	129.60	123.27
3	D	104	TYR	CA-C-O	-5.46	112.70	120.51
3	H	145	CYS	N-CA-C	-5.46	99.70	108.55
3	H	147	VAL	N-CA-C	5.46	116.58	108.23
3	H	196	GLU	CA-CB-CG	5.46	125.02	114.10
3	D	95	PHE	N-CA-C	5.45	118.16	110.14
3	F	156	THR	CA-C-N	-5.45	116.19	122.95
3	F	156	THR	C-N-CA	-5.45	116.19	122.95
2	C	216	ASN	CA-C-N	-5.45	114.72	122.41
2	C	216	ASN	C-N-CA	-5.45	114.72	122.41
3	F	130	ALA	N-CA-C	-5.45	99.94	109.48
2	E	181	MET	CA-C-O	-5.45	115.60	121.38
2	G	109	LYS	N-CA-C	5.45	118.42	109.76
1	Q	13	ARG	NE-CZ-NH2	5.45	124.10	119.20
2	G	118	ALA	CB-CA-C	-5.45	100.43	109.15
3	F	60	TYR	O-C-N	5.44	129.18	123.03
3	H	133	SER	N-CA-C	-5.44	102.39	111.37
4	N	73	ASN	N-CA-C	-5.44	105.46	111.71
2	A	144	ASN	N-CA-C	5.43	122.38	110.80
4	L	37	ALA	CA-C-O	-5.43	115.26	121.40
2	C	120	THR	N-CA-C	-5.43	100.32	108.96
2	E	176	ASP	CA-C-N	-5.43	114.79	122.34
2	E	176	ASP	C-N-CA	-5.43	114.79	122.34
3	F	8	GLY	N-CA-C	-5.43	105.66	112.23
3	B	5	VAL	CB-CA-C	-5.42	102.41	110.33
3	D	114	VAL	N-CA-C	5.42	120.62	109.34
2	G	5	SER	O-C-N	5.42	129.56	123.27
3	D	206	ALA	N-CA-CB	-5.42	101.33	110.49
2	E	177	SER	O-C-N	5.42	129.09	122.58
2	E	71	ARG	NE-CZ-NH2	5.42	124.08	119.20
2	E	49	SER	N-CA-C	5.42	118.17	108.47
2	A	14	SER	CA-CB-OG	5.42	121.93	111.10
2	G	126	PRO	O-C-N	5.42	129.95	122.64
3	D	84	ASN	N-CA-C	5.42	117.00	109.31
3	B	161	SER	CA-C-O	5.41	126.34	120.12
3	B	172	PRO	CA-N-CD	-5.41	104.42	112.00
3	B	174	VAL	CA-C-N	-5.41	114.73	123.23
3	B	174	VAL	C-N-CA	-5.41	114.73	123.23
3	D	204	HIS	O-C-N	-5.41	116.57	121.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	50	TRP	CA-C-O	-5.41	115.64	121.38
4	M	25	VAL	CA-C-O	-5.41	114.02	120.78
2	E	69	THR	N-CA-C	5.41	117.88	107.44
2	E	119	PRO	CA-C-O	-5.41	110.76	120.60
2	A	173	ASP	O-C-N	5.40	129.78	122.59
2	C	66	ASP	O-C-N	5.40	129.78	122.59
3	F	167	GLY	CA-C-N	-5.40	113.60	122.67
3	F	167	GLY	C-N-CA	-5.40	113.60	122.67
3	B	151	PHE	CD1-CG-CD2	-5.40	110.50	118.60
3	B	208	SER	CA-CB-OG	-5.40	100.30	111.10
2	A	103	THR	N-CA-C	5.40	118.23	109.06
2	C	118	ALA	N-CA-C	5.39	116.68	109.83
2	A	150	ILE	CA-CB-CG2	5.39	119.66	110.50
3	H	41	PRO	N-CD-CG	-5.39	95.12	103.20
3	H	43	LYS	N-CA-C	5.39	118.19	109.79
2	C	218	ASN	N-CA-CB	-5.38	101.39	110.49
2	C	43	GLN	N-CA-C	-5.38	100.92	109.59
2	C	189	LYS	CD-CE-NZ	5.38	129.12	111.90
3	F	184	SER	CB-CA-C	-5.38	101.20	111.48
3	B	98	ARG	CB-CG-CD	5.38	123.67	111.30
2	A	67	ARG	CA-C-N	-5.37	114.22	122.87
2	A	67	ARG	C-N-CA	-5.37	114.22	122.87
2	E	163	ASN	N-CA-C	-5.37	102.80	110.59
2	E	22	SER	CA-CB-OG	5.37	121.84	111.10
1	Q	15	THR	N-CA-C	5.36	122.22	110.80
4	O	80	ALA	CB-CA-C	5.36	120.16	111.26
3	B	81	LEU	N-CA-C	-5.36	99.21	108.69
3	B	142	THR	N-CA-C	5.36	116.55	108.46
3	D	2	ILE	CB-CA-C	-5.36	104.47	111.81
3	H	78	THR	N-CA-C	5.35	118.18	109.24
1	P	28	GLY	O-C-N	5.35	129.66	122.70
2	C	113	LYS	N-CA-C	-5.34	99.73	108.76
4	M	29	PHE	CB-CA-C	-5.34	101.04	109.80
2	A	129	GLU	CA-CB-CG	5.34	124.79	114.10
3	B	123	PRO	CA-C-O	5.34	128.31	120.56
2	A	178	THR	N-CA-C	5.34	117.98	109.65
3	H	187	THR	CA-CB-OG1	-5.34	101.59	109.60
3	F	22	CYS	CB-CA-C	-5.34	103.65	111.23
2	A	79	LEU	CA-C-O	-5.33	114.60	120.36
3	D	143	LEU	CB-CG-CD2	5.33	126.70	110.70
3	F	150	TYR	CB-CA-C	-5.33	99.81	110.42
3	D	190	SER	N-CA-C	-5.33	105.41	112.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	8	GLY	N-CA-C	5.33	123.21	112.34
2	C	12	ALA	N-CA-C	5.33	118.92	111.30
2	G	84	VAL	CA-C-O	5.33	127.44	120.78
4	O	77	ILE	CB-CA-C	-5.33	104.61	111.53
2	A	41	TRP	N-CA-C	5.32	118.16	109.59
3	F	200	CYS	CA-CB-SG	5.32	126.64	114.40
2	E	82	SER	CA-C-O	-5.32	115.01	121.28
3	F	130	ALA	CA-C-O	5.32	126.67	120.23
2	C	116	ASP	CA-C-O	-5.32	115.92	121.55
2	C	138	VAL	CA-C-N	-5.32	114.28	122.68
2	C	138	VAL	C-N-CA	-5.32	114.28	122.68
3	B	89	GLU	CA-C-O	-5.31	113.00	119.43
3	H	158	THR	CB-CA-C	-5.31	100.91	110.36
2	E	104	PHE	CE1-CZ-CE2	-5.31	110.44	120.00
2	C	35	ARG	NE-CZ-NH2	-5.31	114.42	119.20
2	E	197	SER	N-CA-C	5.30	118.95	107.49
2	C	32	SER	CA-C-O	5.30	126.04	120.42
2	A	181	MET	O-C-N	5.30	129.32	123.33
3	B	54	GLU	CB-CA-C	-5.30	99.87	110.42
1	S	7	PRO	CA-N-CD	-5.30	104.58	112.00
3	B	206	ALA	N-CA-C	5.30	116.74	110.97
3	D	11	LEU	N-CA-CB	5.30	118.81	110.71
1	Q	2	SER	CA-CB-OG	-5.30	100.50	111.10
2	E	78	THR	N-CA-CB	5.30	119.50	110.71
3	D	178	ASP	CA-C-O	-5.29	115.40	121.54
3	B	99	PHE	N-CA-C	5.29	117.28	108.02
1	Q	31	VAL	N-CA-CB	5.29	119.95	111.23
2	E	179	TYR	CA-C-N	5.29	131.29	121.62
2	E	179	TYR	C-N-CA	5.29	131.29	121.62
3	H	163	SER	N-CA-C	5.29	122.06	110.80
3	D	131	PRO	CB-CA-C	5.29	117.87	110.95
3	D	154	PRO	CA-CB-CG	-5.28	94.46	104.50
2	G	170	THR	CB-CA-C	-5.28	100.81	109.53
2	C	150	ILE	CB-CA-C	5.28	119.52	110.38
2	C	112	LEU	N-CA-C	-5.27	101.05	109.07
3	F	102	ARG	N-CA-CB	-5.27	102.83	110.47
4	N	35	GLN	O-C-N	-5.27	115.58	122.59
3	B	13	LYS	N-CA-CB	5.27	120.50	110.49
4	N	44	GLU	CA-C-N	-5.27	112.91	122.50
4	N	44	GLU	C-N-CA	-5.27	112.91	122.50
2	A	45	LYS	O-C-N	-5.27	115.14	121.31
3	H	12	LYS	CB-CG-CD	-5.27	99.18	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	53	LEU	CB-CG-CD2	-5.27	94.90	110.70
2	G	125	PRO	O-C-N	5.27	127.67	121.46
4	M	46	ALA	CA-C-O	5.26	126.10	120.20
2	E	135	GLY	N-CA-C	5.26	118.26	110.63
3	F	51	VAL	CB-CA-C	-5.26	101.39	110.65
3	F	73	GLU	N-CA-C	-5.26	104.45	111.87
4	N	65	THR	CA-C-N	-5.26	112.88	123.09
4	N	65	THR	C-N-CA	-5.26	112.88	123.09
2	C	202	ALA	O-C-N	5.26	129.24	122.93
3	D	212	ASP	N-CA-C	-5.26	99.60	110.80
3	F	199	THR	CA-CB-OG1	-5.26	101.72	109.60
2	A	88	ASP	CA-C-N	-5.25	113.75	122.32
2	A	88	ASP	C-N-CA	-5.25	113.75	122.32
3	F	124	PRO	CA-C-N	-5.25	114.68	123.04
3	F	124	PRO	C-N-CA	-5.25	114.68	123.04
2	C	161	ARG	NE-CZ-NH1	5.25	126.75	121.50
2	G	68	PHE	O-C-N	-5.25	115.61	122.59
2	A	79	LEU	CA-C-N	-5.25	114.66	122.74
2	A	79	LEU	C-N-CA	-5.25	114.66	122.74
3	B	212	ASP	CA-C-O	5.25	129.61	120.85
3	F	113	THR	CA-CB-CG2	5.24	119.41	110.50
2	G	22	SER	O-C-N	5.24	129.67	123.33
3	D	54	GLU	CB-CG-CD	5.24	121.51	112.60
2	E	5	SER	CA-C-O	-5.24	114.90	120.40
2	A	155	LYS	CA-CB-CG	5.23	124.57	114.10
2	G	80	THR	N-CA-CB	-5.23	101.89	110.42
4	L	43	PHE	CA-C-N	-5.23	111.55	121.54
4	L	43	PHE	C-N-CA	-5.23	111.55	121.54
2	E	46	PRO	CA-C-O	5.23	130.12	120.60
2	C	105	GLY	CA-C-N	-5.23	111.56	121.54
2	C	105	GLY	C-N-CA	-5.23	111.56	121.54
2	E	201	GLU	CA-C-O	5.23	126.07	120.32
3	H	172	PRO	CB-CA-C	-5.23	103.15	110.63
2	G	130	GLN	CA-C-O	5.22	125.98	119.97
2	A	126	PRO	CA-N-CD	-5.22	104.69	112.00
3	F	43	LYS	O-C-N	-5.22	116.85	123.17
3	B	79	ALA	CA-C-O	-5.22	114.69	120.38
3	D	2	ILE	O-C-N	5.22	129.84	122.59
3	D	110	ALA	O-C-N	5.22	128.77	122.35
2	C	73	SER	N-CA-C	5.21	121.90	110.80
1	Q	7	PRO	N-CA-CB	5.21	108.72	103.25
3	F	171	PHE	CA-C-N	-5.21	114.28	120.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	171	PHE	C-N-CA	-5.21	114.28	120.11
4	M	24	LYS	N-CA-CB	-5.21	103.07	110.46
3	H	137	THR	N-CA-C	-5.20	102.78	110.48
4	L	36	THR	N-CA-C	5.20	117.89	108.69
3	H	68	PHE	CD1-CG-CD2	5.20	126.40	118.60
2	E	14	SER	N-CA-CB	-5.20	103.18	110.25
2	G	128	SER	N-CA-C	-5.20	99.73	110.80
3	H	50	TRP	CA-C-O	5.20	128.75	121.73
3	B	160	ASN	N-CA-CB	-5.20	104.29	112.13
2	C	156	ILE	N-CA-CB	5.19	116.92	111.00
2	A	50	PRO	N-CA-C	-5.19	103.91	111.33
3	F	193	TRP	CA-C-O	5.19	127.28	120.16
2	G	126	PRO	CA-C-N	5.19	130.16	123.00
2	G	126	PRO	C-N-CA	5.19	130.16	123.00
3	B	14	PRO	CA-C-O	-5.19	111.15	120.60
3	F	217	PRO	CA-C-N	-5.19	112.36	121.70
3	F	217	PRO	C-N-CA	-5.19	112.36	121.70
3	H	4	LEU	N-CA-C	5.19	116.36	107.28
3	H	202	VAL	N-CA-C	-5.19	100.92	108.97
3	F	214	LYS	CD-CE-NZ	5.19	128.50	111.90
2	A	85	GLN	CA-C-O	5.18	127.21	121.56
4	O	28	ILE	CA-C-N	-5.18	113.58	123.32
4	O	28	ILE	C-N-CA	-5.18	113.58	123.32
3	D	144	GLY	N-CA-C	5.18	118.67	111.10
3	F	122	THR	CA-C-O	-5.18	115.37	120.19
3	H	94	TYR	N-CA-C	5.18	121.83	110.80
2	E	175	LYS	N-CA-CB	5.18	119.05	111.54
3	D	131	PRO	CA-C-O	-5.17	115.46	122.08
2	G	185	LEU	CB-CA-C	5.17	118.27	109.84
4	O	49	GLU	N-CA-C	-5.17	105.76	111.71
1	P	28	GLY	CA-C-O	-5.17	111.57	120.57
2	C	33	ARG	CD-NE-CZ	5.17	131.64	124.40
2	C	161	ARG	CB-CG-CD	5.17	123.19	111.30
4	M	39	PHE	CE1-CZ-CE2	5.17	129.31	120.00
2	E	69	THR	OG1-CB-CG2	-5.17	98.96	109.30
3	D	60	TYR	N-CA-C	5.17	118.43	110.42
1	S	42	PRO	N-CD-CG	5.17	110.95	103.20
4	L	53	TYR	CB-CG-CD2	5.17	128.55	120.80
3	B	39	GLN	CB-CA-C	-5.16	100.14	110.42
3	D	82	GLN	CA-C-O	-5.16	115.33	121.16
3	F	88	ASN	O-C-N	-5.16	115.39	122.46
3	D	76	ALA	O-C-N	5.16	129.45	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	64	TRP	N-CA-C	5.16	116.93	108.52
4	N	57	HIS	N-CA-C	-5.16	99.81	110.80
3	H	14	PRO	O-C-N	5.16	129.15	122.85
4	O	53	TYR	CA-C-O	5.16	126.20	120.63
2	E	49	SER	O-C-N	-5.16	117.05	121.23
3	B	54	GLU	N-CA-CB	5.16	119.20	110.49
2	C	101	PRO	N-CD-CG	-5.15	97.61	103.80
2	E	104	PHE	CD1-CG-CD2	-5.15	110.87	118.60
4	M	81	GLY	CA-C-O	5.15	131.62	120.80
3	H	14	PRO	CA-C-O	-5.15	115.70	121.32
3	D	10	GLU	O-C-N	5.15	129.35	123.48
3	B	204	HIS	CB-CA-C	-5.14	100.03	110.17
2	C	13	VAL	CG1-CB-CG2	5.14	122.12	110.80
2	C	118	ALA	O-C-N	5.14	127.19	121.43
2	C	67	ARG	NE-CZ-NH2	5.14	123.83	119.20
3	F	174	VAL	CG1-CB-CG2	-5.14	99.49	110.80
3	H	169	HIS	N-CA-C	-5.14	98.90	107.80
2	A	110	LEU	CA-C-O	-5.14	114.84	120.70
2	C	12	ALA	CA-C-O	-5.14	115.27	121.34
2	A	31	ASN	CB-CA-C	-5.14	101.64	110.22
4	L	63	GLU	CA-C-O	-5.14	115.20	121.88
2	E	166	LEU	CB-CA-C	5.13	118.59	111.51
3	F	131	PRO	CA-C-N	-5.13	112.34	121.48
3	F	131	PRO	C-N-CA	-5.13	112.34	121.48
2	E	122	SER	CA-C-O	5.13	127.14	120.11
2	E	190	ASP	CA-C-O	5.13	124.47	118.77
3	F	87	LYS	N-CA-C	5.13	115.06	108.34
3	B	105	PHE	CD1-CE1-CZ	5.13	129.23	120.00
3	F	154	PRO	O-C-N	5.13	130.84	121.10
3	F	166	SER	CA-C-O	5.13	126.55	120.96
2	G	124	PHE	CA-C-N	5.13	125.66	120.38
2	G	124	PHE	C-N-CA	5.13	125.66	120.38
2	C	155	LYS	CB-CA-C	-5.12	102.89	110.62
3	D	206	ALA	N-CA-C	5.12	121.71	110.80
2	G	109	LYS	CB-CA-C	-5.12	101.49	109.84
2	G	13	VAL	N-CA-CB	5.12	119.67	111.23
3	H	9	PRO	O-C-N	5.12	128.56	122.98
3	F	68	PHE	CB-CG-CD1	5.12	129.40	120.70
3	F	195	SER	N-CA-CB	-5.12	100.89	111.07
4	N	75	MET	N-CA-C	5.12	116.93	108.13
1	S	44	LEU	CB-CA-C	5.12	120.60	110.42
4	O	33	LYS	CG-CD-CE	5.12	123.07	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	13	LYS	CA-C-O	-5.11	114.17	120.05
3	D	210	LYS	CB-CA-C	5.11	118.58	109.38
3	D	161	SER	CA-CB-OG	5.11	121.32	111.10
2	C	181	MET	CA-C-N	-5.11	116.19	123.03
2	C	181	MET	C-N-CA	-5.11	116.19	123.03
3	D	72	LEU	N-CA-CB	-5.11	102.07	111.36
3	B	49	GLY	O-C-N	-5.11	117.87	124.15
4	L	52	ARG	NH1-CZ-NH2	5.11	125.94	119.30
2	E	143	ASN	O-C-N	-5.11	116.92	122.84
2	E	214	SER	CA-C-O	-5.11	115.57	121.49
3	F	35	HIS	CA-C-O	-5.10	115.41	121.89
2	A	77	PHE	CB-CA-C	-5.10	100.88	109.50
4	L	32	GLY	O-C-N	5.10	128.30	122.33
3	F	214	LYS	N-CA-C	5.10	116.72	108.41
2	A	8	PRO	N-CD-CG	-5.10	97.68	103.80
2	A	107	GLY	N-CA-C	5.09	125.25	113.18
2	E	78	THR	O-C-N	5.09	129.71	123.44
3	H	40	ALA	CA-C-N	5.09	126.21	119.84
3	H	40	ALA	C-N-CA	5.09	126.21	119.84
3	B	172	PRO	CB-CA-C	-5.09	103.16	111.56
2	E	121	VAL	N-CA-C	5.09	119.93	109.34
2	E	191	GLU	CB-CA-C	-5.09	99.82	109.95
3	B	73	GLU	CA-C-O	5.09	128.57	122.41
3	H	217	PRO	N-CA-C	-5.09	101.86	110.21
2	A	128	SER	CB-CA-C	5.09	119.01	110.92
4	O	64	TRP	O-C-N	5.08	128.63	122.94
2	C	153	LYS	CA-C-O	-5.08	115.21	120.70
2	G	184	THR	CB-CA-C	-5.08	102.31	110.14
3	B	13	LYS	O-C-N	5.08	126.44	121.66
4	O	44	GLU	CA-C-O	-5.08	115.56	120.89
3	B	170	THR	CA-CB-OG1	5.08	117.22	109.60
3	H	124	PRO	N-CA-CB	-5.08	98.70	103.27
3	D	172	PRO	N-CD-CG	-5.07	95.59	103.20
2	E	180	SER	N-CA-C	5.07	116.55	108.79
2	G	148	LYS	CA-C-N	-5.07	113.85	120.95
2	G	148	LYS	C-N-CA	-5.07	113.85	120.95
2	A	69	THR	O-C-N	5.07	130.28	123.34
3	B	65	LYS	N-CA-C	-5.07	100.90	108.96
3	D	180	TYR	N-CA-C	5.07	117.06	110.53
3	H	10	GLU	CA-C-O	5.07	126.17	120.70
3	B	202	VAL	O-C-N	-5.06	117.79	123.26
2	A	111	GLU	CB-CG-CD	5.06	121.21	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	177	SER	CB-CA-C	-5.06	100.35	110.42
4	N	28	ILE	O-C-N	5.06	128.18	122.67
3	H	215	ILE	N-CA-CB	-5.06	104.50	111.99
4	L	34	ILE	CG1-CB-CG2	-5.06	95.53	110.70
3	D	138	ASN	CB-CA-C	-5.06	108.08	114.40
1	Q	22	VAL	N-CA-C	5.05	119.85	109.34
2	A	219	GLU	CA-CB-CG	-5.05	103.99	114.10
3	D	148	LYS	CG-CD-CE	5.05	122.92	111.30
4	N	29	PHE	N-CA-C	5.05	117.87	109.94
3	H	123	PRO	CA-N-CD	-5.05	104.93	112.00
3	H	137	THR	O-C-N	5.05	128.67	122.96
3	B	194	PRO	N-CD-CG	-5.05	97.74	103.80
4	M	33	LYS	N-CA-C	-5.05	103.81	110.43
3	B	216	VAL	CB-CA-C	-5.05	106.25	110.94
2	E	159	SER	N-CA-C	-5.05	103.87	110.53
3	D	4	LEU	CA-C-O	5.05	127.06	120.15
2	A	15	ALA	N-CA-C	5.04	121.54	110.80
2	A	199	THR	O-C-N	5.04	129.71	123.15
2	C	46	PRO	O-C-N	5.04	129.45	122.64
2	E	88	ASP	N-CA-CB	-5.04	102.90	111.17
3	B	205	PRO	CB-CA-C	5.04	119.88	111.56
2	A	50	PRO	N-CA-CB	-5.04	97.35	103.45
3	D	170	THR	N-CA-C	-5.04	105.40	112.25
3	F	88	ASN	CA-CB-CG	-5.04	107.56	112.60
3	F	157	VAL	N-CA-C	5.04	114.54	106.88
3	H	17	THR	CA-CB-OG1	5.04	117.16	109.60
2	A	50	PRO	CA-N-CD	-5.04	104.95	112.00
2	E	44	GLN	CB-CG-CD	5.04	121.16	112.60
2	C	4	MET	O-C-N	5.04	129.50	123.16
2	C	123	ILE	O-C-N	5.03	127.99	122.76
2	C	131	LEU	N-CA-C	-5.03	103.12	111.37
3	F	181	THR	CA-CB-OG1	-5.03	102.05	109.60
2	C	30	LEU	CA-C-O	-5.03	115.55	120.98
2	C	211	ILE	O-C-N	5.03	128.44	122.66
2	E	104	PHE	CZ-CE2-CD2	5.03	129.06	120.00
2	E	172	GLN	CA-C-O	5.03	127.70	120.51
4	N	34	ILE	CB-CA-C	-5.03	102.01	110.71
2	G	173	ASP	N-CA-CB	5.03	117.55	110.36
2	A	7	SER	CA-CB-OG	-5.03	101.05	111.10
3	D	124	PRO	O-C-N	5.03	129.42	122.64
2	A	148	LYS	N-CA-CB	-5.02	102.00	110.49
3	D	99	PHE	CA-C-N	5.02	130.11	120.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	99	PHE	C-N-CA	5.02	130.11	120.97
2	C	139	VAL	CA-C-O	-5.02	116.40	121.67
3	D	189	PRO	CB-CA-C	-5.02	103.28	111.56
3	H	200	CYS	CA-CB-SG	5.02	125.94	114.40
2	A	56	TRP	CA-C-N	5.01	131.12	121.54
2	A	56	TRP	C-N-CA	5.01	131.12	121.54
1	P	31	VAL	CA-CB-CG1	5.01	118.92	110.40
2	C	9	SER	CA-CB-OG	-5.01	101.08	111.10
3	F	178	ASP	CB-CG-OD1	-5.01	106.88	118.40
3	B	36	TRP	O-C-N	-5.01	117.46	123.27
3	B	208	SER	N-CA-C	-5.00	104.49	111.30
2	E	59	THR	N-CA-C	5.00	116.80	107.99
3	B	9	PRO	N-CD-CG	-5.00	95.69	103.20
3	F	179	LEU	CB-CA-C	-5.00	105.22	111.43
1	S	18	ARG	CA-C-N	-5.00	113.58	119.84
1	S	18	ARG	C-N-CA	-5.00	113.58	119.84
2	E	128	SER	N-CA-C	-5.00	100.15	110.80
2	G	34	THR	O-C-N	5.00	128.20	122.25
3	H	130	ALA	O-C-N	-5.00	117.54	121.14

There are no chirality outliers.

All (10) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	C	179	TYR	Sidechain
3	D	127	TYR	Sidechain
2	E	179	TYR	Sidechain
2	E	28	SER	Mainchain
2	E	55	TYR	Sidechain
3	F	102	ARG	Mainchain
2	G	146	TYR	Sidechain
2	G	98	TYR	Sidechain
3	H	94	TYR	Sidechain
4	L	53	TYR	Sidechain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	P	167	0	162	40	0
1	Q	346	0	366	103	2
1	S	346	0	366	98	1
2	A	1708	0	1658	388	0
2	C	1708	0	1658	380	2
2	E	1708	0	1658	372	0
2	G	1701	0	1653	456	0
3	B	1660	0	1615	339	0
3	D	1660	0	1615	366	0
3	F	1660	0	1615	304	0
3	H	1660	0	1615	437	0
4	L	507	0	482	93	0
4	M	480	0	457	105	0
4	N	490	0	461	114	0
4	O	480	0	457	135	1
5	A	29	0	0	0	0
5	B	31	0	0	0	0
5	C	13	0	0	0	0
5	D	10	0	0	2	0
5	E	17	0	0	4	0
5	F	34	0	0	5	0
5	G	11	0	0	4	0
5	H	9	0	0	4	0
5	L	9	0	0	1	0
5	M	3	0	0	1	0
5	N	7	0	0	0	0
5	O	3	0	0	0	0
5	P	1	0	0	1	0
5	Q	6	0	0	1	0
5	S	3	0	0	0	0
All	All	16467	0	15838	3518	3

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 110.

All (3518) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:22:VAL:CA	1:Q:22:VAL:CB	1.75	1.65
1:S:3:THR:CB	1:S:3:THR:CG2	1.74	1.65
2:C:189:LYS:CA	2:C:189:LYS:CB	1.75	1.64
2:E:153:LYS:CB	2:E:153:LYS:CG	1.75	1.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:156:ILE:CB	2:G:156:ILE:CG2	1.77	1.63
1:S:7:PRO:CB	1:S:7:PRO:CG	1.76	1.63
1:Q:11:THR:CA	1:Q:11:THR:CB	1.75	1.63
2:E:71:ARG:CG	2:E:71:ARG:CB	1.74	1.63
3:F:101:LEU:CD2	3:F:101:LEU:CG	1.76	1.63
2:G:112:LEU:CD2	2:G:112:LEU:CG	1.77	1.63
3:B:98:ARG:CD	3:B:98:ARG:CG	1.76	1.63
4:L:33:LYS:CD	4:L:33:LYS:CG	1.76	1.62
2:G:153:LYS:CD	2:G:153:LYS:CG	1.74	1.62
4:O:33:LYS:CG	4:O:33:LYS:CD	1.77	1.62
2:C:56:TRP:CG	2:C:56:TRP:CB	1.81	1.62
2:C:161:ARG:CG	2:C:161:ARG:CD	1.77	1.62
3:D:197:THR:CA	3:D:197:THR:CB	1.78	1.62
2:A:118:ALA:CA	2:A:118:ALA:CB	1.76	1.61
1:Q:31:VAL:CA	1:Q:31:VAL:CB	1.78	1.61
3:H:99:PHE:CA	3:H:99:PHE:CB	1.76	1.61
3:H:188:VAL:CB	3:H:188:VAL:CG2	1.74	1.61
2:A:205:LYS:CB	2:A:205:LYS:CG	1.79	1.61
2:C:18:LYS:CD	2:C:18:LYS:CG	1.79	1.61
2:G:193:GLU:CB	2:G:193:GLU:CG	1.75	1.61
1:Q:23:LYS:CD	1:Q:23:LYS:CE	1.74	1.61
2:E:89:GLN:CB	2:E:89:GLN:CG	1.75	1.61
1:S:7:PRO:CG	1:S:7:PRO:CD	1.78	1.61
2:C:67:ARG:CG	2:C:67:ARG:CD	1.75	1.60
3:D:23:LYS:CB	3:D:23:LYS:CG	1.78	1.60
3:F:74:THR:CB	3:F:74:THR:CG2	1.80	1.60
3:D:210:LYS:CD	3:D:210:LYS:CE	1.77	1.60
2:E:41:TRP:CG	2:E:41:TRP:CB	1.77	1.60
2:G:109:LYS:CD	2:G:109:LYS:CG	1.77	1.60
3:B:126:VAL:CB	3:B:126:VAL:CG2	1.75	1.59
3:F:19:LYS:CG	3:F:19:LYS:CD	1.74	1.59
3:H:55:THR:CA	3:H:55:THR:CB	1.76	1.59
4:O:58:ALA:CA	4:O:58:ALA:CB	1.78	1.59
2:A:150:ILE:CG1	2:A:150:ILE:CD1	1.75	1.59
3:B:197:THR:CB	3:B:197:THR:CG2	1.75	1.59
4:L:28:ILE:CB	4:L:28:ILE:CG2	1.76	1.59
3:F:1:GLN:CB	3:F:1:GLN:CG	1.76	1.59
3:F:100:LEU:CD2	3:F:100:LEU:CG	1.75	1.59
3:H:19:LYS:CB	3:H:19:LYS:CG	1.76	1.59
2:C:30:LEU:CD1	2:C:30:LEU:CG	1.75	1.59
2:G:102:LEU:CG	2:G:102:LEU:CD1	1.78	1.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:28:ILE:CG1	4:M:28:ILE:CD1	1.78	1.59
4:N:28:ILE:CB	4:N:28:ILE:CG2	1.74	1.59
2:C:165:VAL:CG1	2:C:165:VAL:CB	1.77	1.58
2:A:33:ARG:CA	2:A:33:ARG:CB	1.77	1.58
3:H:175:LEU:CG	3:H:175:LEU:CD1	1.75	1.58
3:D:170:THR:CB	3:D:170:THR:CG2	1.82	1.58
4:L:55:ALA:CA	4:L:55:ALA:CB	1.76	1.58
4:O:59:LYS:CB	4:O:59:LYS:CG	1.79	1.58
2:G:54:ILE:CG1	2:G:54:ILE:CD1	1.81	1.57
1:Q:12:LYS:CD	1:Q:12:LYS:CE	1.74	1.57
3:B:113:THR:CB	3:B:113:THR:CG2	1.78	1.57
2:E:12:ALA:CA	2:E:12:ALA:CB	1.77	1.57
2:G:201:GLU:CB	2:G:201:GLU:CG	1.76	1.57
2:E:24:LYS:CD	2:E:24:LYS:CE	1.74	1.57
2:E:95:LYS:CE	2:E:95:LYS:CD	1.76	1.57
3:D:81:LEU:CG	3:D:81:LEU:CD1	1.79	1.57
2:G:205:LYS:CD	2:G:205:LYS:CE	1.78	1.57
4:N:65:THR:CB	4:N:65:THR:CG2	1.80	1.56
2:G:166:LEU:CD1	2:G:166:LEU:CG	1.83	1.56
3:H:216:VAL:CA	3:H:216:VAL:CB	1.80	1.56
3:F:120:LYS:CD	3:F:120:LYS:CE	1.76	1.56
2:C:108:THR:CB	2:C:108:THR:CG2	1.84	1.56
2:G:71:ARG:CG	2:G:71:ARG:CD	1.75	1.56
2:G:175:LYS:CD	2:G:175:LYS:CG	1.75	1.56
3:H:198:VAL:CB	3:H:198:VAL:CG2	1.79	1.56
4:O:52:ARG:CB	4:O:52:ARG:CG	1.78	1.56
2:C:51:LYS:NZ	2:C:51:LYS:CE	1.69	1.56
3:F:156:THR:CB	3:F:156:THR:CA	1.79	1.56
2:A:89:GLN:CB	2:A:89:GLN:CG	1.82	1.56
3:D:102:ARG:CG	3:D:102:ARG:CD	1.83	1.55
1:Q:23:LYS:CD	1:Q:23:LYS:CG	1.80	1.55
4:N:68:LEU:C	4:N:68:LEU:CA	1.79	1.55
2:G:21:MET:CB	2:G:21:MET:CG	1.83	1.55
3:H:175:LEU:CG	3:H:175:LEU:CD2	1.83	1.55
1:P:30:ILE:CG1	1:P:30:ILE:CD1	1.84	1.55
3:H:164:LEU:CD2	3:H:164:LEU:CG	1.78	1.55
2:A:96:GLN:CB	2:A:96:GLN:CG	1.74	1.55
3:B:179:LEU:CD1	3:B:179:LEU:CG	1.76	1.55
2:C:129:GLU:CB	2:C:129:GLU:CG	1.77	1.55
3:H:86:LEU:CD1	3:H:86:LEU:CG	1.77	1.55
3:B:210:LYS:CD	3:B:210:LYS:CG	1.82	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:206:THR:CB	2:C:206:THR:CG2	1.76	1.54
2:G:36:LYS:CD	2:G:36:LYS:CG	1.79	1.54
2:G:67:ARG:CG	2:G:67:ARG:CD	1.82	1.54
4:N:33:LYS:CD	4:N:33:LYS:CE	1.74	1.54
4:O:26:ASN:HD22	4:O:76:ASN:ND2	1.04	1.54
2:A:199:THR:CB	2:A:199:THR:CG2	1.81	1.54
3:D:197:THR:CB	3:D:197:THR:CG2	1.84	1.54
4:L:34:ILE:CG1	4:L:34:ILE:CD1	1.85	1.54
3:B:119:ALA:CA	3:B:119:ALA:CB	1.82	1.53
2:A:76:ASP:CG	2:A:76:ASP:CB	1.79	1.53
3:B:218:ARG:C	3:B:218:ARG:CA	1.78	1.53
2:C:187:LEU:CG	2:C:187:LEU:CD1	1.80	1.53
1:Q:10:LYS:NZ	1:Q:10:LYS:CE	1.70	1.53
2:G:1:ASP:CG	2:G:1:ASP:CB	1.74	1.53
3:B:2:ILE:CG1	3:B:2:ILE:CD1	1.85	1.53
2:A:162:GLN:CG	2:A:162:GLN:CD	1.75	1.53
3:D:124:PRO:CG	3:D:124:PRO:CD	1.76	1.53
4:M:24:LYS:CB	4:M:24:LYS:CG	1.82	1.52
1:S:37:LEU:CD2	1:S:37:LEU:CG	1.84	1.52
2:E:11:LEU:CG	2:E:11:LEU:CD1	1.77	1.52
3:D:103:GLN:CG	3:D:103:GLN:CD	1.77	1.52
3:F:131:PRO:CG	3:F:131:PRO:CD	1.77	1.52
3:D:41:PRO:CG	3:D:41:PRO:CD	1.77	1.52
2:E:194:ARG:CD	2:E:194:ARG:CG	1.82	1.52
3:H:9:PRO:CG	3:H:9:PRO:CD	1.83	1.52
3:D:175:LEU:CD2	3:D:175:LEU:CG	1.80	1.51
3:F:102:ARG:CG	3:F:102:ARG:CD	1.88	1.51
1:S:23:LYS:NZ	1:S:23:LYS:CE	1.73	1.51
2:A:1:ASP:CB	2:A:1:ASP:CG	1.78	1.51
2:A:191:GLU:N	2:A:191:GLU:CA	1.69	1.50
4:N:73:ASN:CB	4:N:73:ASN:CG	1.82	1.50
3:H:59:THR:CB	3:H:59:THR:CG2	1.85	1.50
4:O:73:ASN:C	4:O:73:ASN:CA	1.79	1.50
3:F:214:LYS:NZ	3:F:214:LYS:CE	1.75	1.50
2:A:211:ILE:CG1	2:A:211:ILE:CD1	1.86	1.49
3:H:172:PRO:CG	3:H:172:PRO:CD	1.83	1.49
2:E:155:LYS:NZ	2:E:155:LYS:CE	1.73	1.49
3:D:210:LYS:CE	3:D:210:LYS:NZ	1.69	1.49
2:G:213:LYS:NZ	2:G:213:LYS:CE	1.74	1.49
2:C:148:LYS:CD	2:C:148:LYS:CG	1.90	1.48
1:S:36:LEU:CD2	1:S:36:LEU:CG	1.90	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:120:LYS:CD	3:F:120:LYS:CG	1.88	1.48
3:H:89:GLU:CG	3:H:89:GLU:CD	1.83	1.47
2:A:36:LYS:NZ	2:A:36:LYS:CE	1.73	1.47
2:C:113:LYS:NZ	2:C:113:LYS:CE	1.74	1.47
4:N:33:LYS:CE	4:N:33:LYS:NZ	1.75	1.46
4:M:65:THR:CB	4:M:65:THR:CG2	1.92	1.46
3:F:48:MET:SD	3:F:48:MET:CG	2.02	1.45
1:S:31:VAL:CB	1:S:31:VAL:CG1	1.95	1.44
3:F:140:MET:SD	3:F:140:MET:CE	2.08	1.42
2:E:28:SER:OG	2:E:28:SER:CB	1.67	1.42
3:F:189:PRO:CB	3:F:189:PRO:CG	1.85	1.39
2:G:36:LYS:NZ	2:G:36:LYS:CE	1.87	1.37
4:O:26:ASN:ND2	4:O:76:ASN:HD21	1.19	1.36
2:E:31:ASN:ND2	2:E:34:THR:H	1.22	1.33
3:D:140:MET:CE	3:D:140:MET:SD	2.19	1.31
3:B:140:MET:CE	3:B:140:MET:SD	2.20	1.28
3:H:133:SER:CA	3:H:218:ARG:HD3	1.63	1.26
4:N:54:ALA:O	4:N:58:ALA:HB2	1.31	1.23
1:Q:9:ARG:CZ	1:Q:9:ARG:HB2	1.71	1.21
2:A:157:ASP:HA	2:A:197:SER:OG	1.37	1.19
3:H:160:ASN:HB2	3:H:163:SER:HB2	1.22	1.18
3:D:138:ASN:ND2	3:D:139:SER:H	1.40	1.17
3:B:129:LEU:HB2	3:B:144:GLY:HA3	1.27	1.17
2:A:19:VAL:O	2:A:80:THR:HG23	1.45	1.16
3:H:133:SER:HA	3:H:218:ARG:CD	1.75	1.16
4:N:55:ALA:O	4:N:58:ALA:HB3	1.44	1.14
3:F:211:VAL:HG22	3:F:212:ASP:N	1.60	1.14
2:A:3:VAL:HG22	2:A:26:SER:HB2	1.26	1.14
2:G:98:TYR:CE2	2:G:99:ILE:HD12	1.83	1.14
1:Q:33:GLY:HA2	1:Q:36:LEU:HB3	1.29	1.13
2:G:98:TYR:CE2	2:G:99:ILE:CD1	2.31	1.12
3:B:17:THR:HG23	3:B:83:ILE:O	1.48	1.12
3:F:211:VAL:CG2	3:F:212:ASP:H	1.62	1.12
3:H:164:LEU:HD13	3:H:186:VAL:HG21	1.30	1.12
3:B:87:LYS:O	3:B:90:ASP:HB2	1.50	1.11
2:C:65:PRO:O	2:C:67:ARG:N	1.84	1.10
3:D:118:SER:O	3:D:119:ALA:O	1.71	1.09
4:N:68:LEU:H	4:N:68:LEU:HD12	0.93	1.09
2:G:182:SER:HB3	3:H:171:PHE:CE2	1.87	1.08
3:F:198:VAL:O	3:F:198:VAL:HG12	1.53	1.08
4:M:34:ILE:HG23	4:M:34:ILE:O	1.49	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:153:LYS:HE3	2:E:160:GLU:CD	1.79	1.08
3:F:109:GLY:O	3:F:111:GLY:N	1.86	1.07
3:F:100:LEU:HD23	3:F:101:LEU:H	1.13	1.07
2:A:194:ARG:HG2	2:A:195:HIS:N	1.62	1.06
2:G:30:LEU:HA	2:G:38:TYR:CE1	1.89	1.06
3:B:209:THR:HG22	3:B:210:LYS:H	1.20	1.06
1:S:13:ARG:C	2:G:62:SER:HB2	1.81	1.06
4:N:68:LEU:HD12	4:N:68:LEU:N	1.69	1.06
2:C:152:VAL:HG22	2:C:202:ALA:HA	1.33	1.05
2:G:121:VAL:HG12	2:G:213:LYS:HG3	1.36	1.05
2:C:43:GLN:NE2	2:C:45:LYS:HZ2	1.54	1.04
1:Q:44:LEU:HD13	1:Q:45:GLY:H	1.15	1.04
2:E:31:ASN:ND2	2:E:34:THR:N	2.05	1.04
4:L:57:HIS:HB3	4:L:61:ASN:HD21	1.23	1.04
3:B:6:GLN:NE2	3:B:111:GLY:H	1.56	1.04
4:M:25:VAL:HG22	4:M:26:ASN:H	1.20	1.04
3:H:148:LYS:HB2	3:H:181:THR:HB	1.41	1.03
2:A:166:LEU:HD11	3:B:176:GLN:HE22	1.24	1.02
3:B:120:LYS:CD	3:B:120:LYS:H	1.72	1.02
4:N:68:LEU:H	4:N:68:LEU:CD1	1.72	1.02
1:S:13:ARG:NH1	1:S:13:ARG:HB2	1.74	1.02
3:H:182:LEU:HD12	3:H:183:SER:N	1.75	1.02
2:C:43:GLN:HE22	2:C:45:LYS:NZ	1.56	1.01
2:G:30:LEU:HA	2:G:38:TYR:HE1	1.20	1.01
3:B:143:LEU:HB3	3:B:215:ILE:HD12	1.40	1.01
2:G:98:TYR:CZ	2:G:99:ILE:HD11	1.96	1.01
2:A:176:ASP:OD2	2:A:178:THR:HG23	1.58	1.01
2:E:130:GLN:HE22	2:E:137:SER:N	1.57	1.01
1:Q:9:ARG:HH11	1:Q:9:ARG:HG2	1.22	1.01
3:H:34:MET:O	3:H:51:VAL:HG22	1.60	1.01
2:C:191:GLU:OE2	2:C:195:HIS:NE2	1.94	1.00
2:E:39:LEU:O	2:E:39:LEU:HD13	1.62	1.00
3:D:20:ILE:HG22	3:D:112:THR:HG21	1.44	1.00
3:F:40:ALA:HB1	3:F:41:PRO:HD2	1.43	1.00
3:B:138:ASN:CG	3:B:139:SER:H	1.68	1.00
2:C:7:SER:HA	2:C:8:PRO:O	1.60	1.00
2:E:31:ASN:HD22	2:E:34:THR:H	1.06	1.00
2:E:19:VAL:HG12	2:E:81:ILE:O	1.62	1.00
3:F:11:LEU:O	3:F:11:LEU:HD13	1.59	1.00
3:D:182:LEU:HG	3:D:182:LEU:O	1.61	0.99
3:H:38:ASN:N	3:H:48:MET:HG3	1.77	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:75:MET:HE3	4:M:77:ILE:HD11	1.41	0.99
3:B:129:LEU:HB2	3:B:144:GLY:CA	1.93	0.98
4:N:68:LEU:HD21	4:O:51:TYR:OH	1.63	0.98
3:B:182:LEU:HD23	3:B:182:LEU:C	1.89	0.98
2:G:145:PHE:CE2	2:G:180:SER:HA	1.98	0.98
3:B:175:LEU:HB2	3:B:180:TYR:CE1	1.98	0.98
3:F:109:GLY:O	3:F:110:ALA:C	2.03	0.97
3:H:189:PRO:HD2	3:H:192:THR:OG1	1.63	0.97
3:D:152:PRO:C	3:D:154:PRO:HD2	1.89	0.97
2:G:53:LEU:HB2	2:G:54:ILE:HD13	1.46	0.97
3:H:106:ASP:CG	3:H:107:VAL:H	1.72	0.97
3:B:120:LYS:H	3:B:120:LYS:HD3	1.27	0.97
3:F:211:VAL:CG2	3:F:212:ASP:N	2.20	0.97
3:B:36:TRP:CZ2	3:B:81:LEU:HB2	1.98	0.97
3:B:144:GLY:O	3:B:145:CYS:HB2	1.62	0.97
2:G:113:LYS:HG2	2:G:146:TYR:OH	1.64	0.97
2:E:18:LYS:HA	2:E:82:SER:HA	1.48	0.96
2:E:132:THR:O	2:E:133:SER:HB3	1.60	0.96
2:C:217:ARG:HG2	2:C:218:ASN:HD21	1.29	0.96
3:D:18:VAL:HG11	3:D:114:VAL:HG21	1.45	0.96
2:A:8:PRO:HB3	4:L:39:PHE:CE2	2.00	0.96
4:O:75:MET:HG2	4:O:75:MET:O	1.63	0.96
3:D:81:LEU:HD23	3:D:81:LEU:C	1.90	0.96
4:M:25:VAL:HA	4:M:75:MET:HB3	1.45	0.96
2:G:53:LEU:CB	2:G:54:ILE:HD13	1.96	0.96
2:A:186:THR:C	2:A:187:LEU:HD23	1.91	0.96
2:G:12:ALA:HB3	4:O:36:THR:HB	1.47	0.96
3:H:61:ALA:C	3:H:63:ASP:H	1.69	0.96
2:C:65:PRO:C	2:C:67:ARG:H	1.65	0.95
1:Q:16:ASN:ND2	1:Q:17:ARG:HG3	1.81	0.95
2:G:146:TYR:CD2	2:G:147:PRO:HA	2.00	0.95
3:H:151:PHE:O	3:H:151:PHE:CD1	2.19	0.95
2:A:130:GLN:HB2	3:B:127:TYR:CD1	2.00	0.95
2:A:141:PHE:CE2	3:B:185:SER:HB3	1.99	0.95
3:B:65:LYS:NZ	3:B:65:LYS:HA	1.81	0.95
2:A:28:SER:O	2:A:29:LEU:HD23	1.66	0.95
2:C:14:SER:HA	2:C:113:LYS:HB2	1.48	0.95
2:C:204:HIS:ND1	2:C:206:THR:HG23	1.81	0.95
2:C:95:LYS:NZ	3:D:104:TYR:HA	1.81	0.95
2:C:182:SER:HB2	3:D:171:PHE:CE2	2.02	0.95
3:D:112:THR:O	3:D:113:THR:C	2.08	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:188:THR:HG23	2:E:191:GLU:HB2	1.48	0.95
3:H:35:HIS:O	3:H:96:CYS:HA	1.66	0.95
2:A:82:SER:O	2:A:83:SER:C	2.09	0.94
4:O:27:LEU:HB2	4:O:35:GLN:HB2	1.47	0.94
3:H:207:SER:C	3:H:209:THR:H	1.67	0.94
3:H:155:VAL:HG12	3:H:156:THR:N	1.79	0.94
4:N:54:ALA:O	4:N:58:ALA:CB	2.15	0.94
3:H:151:PHE:CD1	3:H:151:PHE:C	2.36	0.94
3:B:38:ASN:OD1	3:B:39:GLN:N	1.99	0.94
2:G:137:SER:OG	2:G:186:THR:HA	1.68	0.94
2:A:130:GLN:HB2	3:B:127:TYR:CE1	2.01	0.94
4:L:54:ALA:C	4:L:56:LEU:H	1.73	0.94
3:H:45:LEU:H	3:H:45:LEU:HD22	1.31	0.94
3:H:106:ASP:OD2	3:H:107:VAL:N	2.00	0.94
3:B:128:PRO:C	3:B:129:LEU:HD12	1.93	0.93
4:L:23:ILE:HG22	4:L:23:ILE:O	1.68	0.93
2:C:71:ARG:HB2	2:C:78:THR:OG1	1.69	0.93
2:G:199:THR:HG22	2:G:214:SER:HA	1.51	0.93
4:M:49:GLU:HA	4:M:52:ARG:HB3	1.49	0.93
3:D:31:ASP:O	3:D:32:PHE:CD2	2.21	0.93
3:B:193:TRP:CD1	3:B:194:PRO:HA	2.04	0.92
4:M:21:VAL:O	4:M:41:GLY:HA2	1.69	0.92
2:A:156:ILE:HG22	2:A:195:HIS:CD2	2.02	0.92
3:H:60:TYR:OH	3:H:69:ALA:HA	1.66	0.92
3:F:63:ASP:O	3:F:64:PHE:CD2	2.22	0.92
2:G:167:ASN:HB3	2:G:183:SER:HB2	1.48	0.92
4:O:34:ILE:C	4:O:35:GLN:HG2	1.92	0.92
2:G:150:ILE:HD13	2:G:151:ASN:H	1.34	0.92
2:E:1:ASP:C	2:E:2:ILE:HD12	1.95	0.92
2:E:128:SER:O	2:E:129:GLU:C	2.11	0.92
4:O:55:ALA:O	4:O:57:HIS:N	2.03	0.92
2:G:167:ASN:H	2:G:167:ASN:ND2	1.60	0.92
2:G:39:LEU:HD13	2:G:40:ALA:H	1.32	0.91
2:A:37:ASN:HD21	2:A:74:GLY:H	1.18	0.91
4:N:31:ASP:OD2	4:N:33:LYS:HG2	1.69	0.91
3:B:52:ASN:CG	3:B:55:THR:HB	1.95	0.91
2:E:189:LYS:O	2:E:193:GLU:HG3	1.71	0.91
3:D:20:ILE:HG12	3:D:81:LEU:O	1.71	0.91
2:G:172:GLN:HG2	2:G:179:TYR:CE2	2.06	0.91
2:G:145:PHE:HE2	2:G:180:SER:HA	1.30	0.91
2:G:152:VAL:HG13	2:G:201:GLU:O	1.71	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:198:TYR:HB2	2:A:215:PHE:CD2	2.06	0.90
4:N:56:LEU:HD12	4:N:56:LEU:O	1.70	0.90
2:A:157:ASP:HA	2:A:197:SER:HG	1.36	0.90
2:E:102:LEU:C	2:E:103:THR:HG23	1.95	0.90
2:E:150:ILE:HD13	2:E:151:ASN:N	1.86	0.90
2:G:204:HIS:CG	2:G:205:LYS:H	1.86	0.90
3:H:160:ASN:CB	3:H:163:SER:HB2	2.01	0.90
2:A:176:ASP:CG	2:A:178:THR:HG23	1.95	0.90
3:B:6:GLN:HE21	3:B:109:GLY:HA3	1.35	0.90
2:C:155:LYS:CD	2:C:158:GLY:O	2.19	0.90
3:F:211:VAL:HG22	3:F:212:ASP:H	1.24	0.90
2:E:44:GLN:HG3	2:E:50:PRO:HG3	1.51	0.90
4:N:68:LEU:N	4:N:68:LEU:CD1	2.33	0.90
3:B:126:VAL:CG2	3:B:126:VAL:CG1	2.50	0.90
2:E:95:LYS:HD3	2:E:104:PHE:CZ	2.05	0.90
3:F:165:SER:O	3:F:168:VAL:HG23	1.72	0.90
2:G:30:LEU:HD12	2:G:36:LYS:H	1.33	0.90
3:D:193:TRP:CG	3:D:194:PRO:HA	2.05	0.90
3:F:196:GLU:O	3:F:197:THR:HG23	1.71	0.90
3:D:1:GLN:OE1	1:Q:13:ARG:HD2	1.70	0.90
3:D:198:VAL:O	3:D:215:ILE:HD12	1.72	0.90
3:B:160:ASN:HB2	3:B:163:SER:HB3	1.54	0.89
2:E:34:THR:HG22	2:E:36:LYS:HB2	1.52	0.89
2:E:128:SER:O	2:E:130:GLN:N	2.05	0.89
3:F:82:GLN:HG2	3:F:84:ASN:OD1	1.72	0.89
2:G:19:VAL:CG1	2:G:81:ILE:HB	2.03	0.89
2:G:130:GLN:O	2:G:133:SER:HB3	1.73	0.89
2:G:146:TYR:CG	2:G:147:PRO:HA	2.08	0.89
3:D:178:ASP:OD2	5:D:224:HOH:O	1.91	0.89
1:S:39:ARG:O	1:S:40:ARG:HB3	1.72	0.89
2:C:81:ILE:HG21	2:C:84:VAL:HG12	1.55	0.88
2:C:95:LYS:HD2	2:C:102:LEU:HD23	1.54	0.88
2:C:167:ASN:ND2	2:C:183:SER:OG	2.06	0.88
3:F:40:ALA:HB1	3:F:41:PRO:CD	2.03	0.88
2:G:122:SER:HA	2:G:213:LYS:HE3	1.55	0.88
1:P:40:ARG:HE	3:F:98:ARG:HH12	1.18	0.88
3:D:140:MET:HE3	3:D:187:THR:OG1	1.73	0.88
2:E:16:GLY:C	2:E:83:SER:HA	1.98	0.88
1:S:13:ARG:HB2	1:S:13:ARG:HH11	1.36	0.88
2:G:152:VAL:HG12	2:G:153:LYS:N	1.87	0.88
2:C:95:LYS:HZ1	3:D:104:TYR:HA	1.33	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:155:LYS:HE2	2:G:201:GLU:OE1	1.74	0.88
2:G:168:SER:OG	3:H:172:PRO:HD2	1.74	0.88
2:A:130:GLN:O	2:A:131:LEU:C	2.15	0.88
3:B:19:LYS:HE2	3:B:80:TYR:HD1	1.38	0.88
3:F:148:LYS:HA	3:F:181:THR:HG23	1.55	0.88
2:E:153:LYS:HE3	2:E:160:GLU:OE2	1.74	0.88
4:N:43:PHE:O	4:N:46:ALA:N	2.06	0.88
3:D:158:THR:OG1	3:D:201:ASN:ND2	2.06	0.88
3:F:27:TYR:CE1	3:F:98:ARG:HD3	2.09	0.88
3:F:171:PHE:H	3:F:171:PHE:HD1	1.20	0.87
2:A:37:ASN:ND2	2:A:74:GLY:H	1.71	0.87
4:M:34:ILE:O	4:M:34:ILE:CG2	2.21	0.87
2:A:88:ASP:O	2:A:90:ALA:N	2.08	0.87
2:E:49:SER:O	2:E:50:PRO:O	1.92	0.87
2:E:16:GLY:O	2:E:83:SER:HA	1.74	0.87
2:E:60:ARG:CZ	2:E:66:ASP:HA	2.04	0.87
3:H:207:SER:C	3:H:209:THR:N	2.27	0.87
3:B:31:ASP:O	3:B:32:PHE:CG	2.27	0.87
3:H:182:LEU:HD12	3:H:182:LEU:C	1.99	0.87
2:E:7:SER:HA	2:E:8:PRO:O	1.75	0.87
4:O:26:ASN:ND2	4:O:76:ASN:ND2	1.89	0.87
4:M:48:ALA:O	4:M:52:ARG:HB2	1.75	0.86
2:G:56:TRP:O	2:G:57:ALA:HB3	1.75	0.86
2:G:127:SER:C	2:G:129:GLU:N	2.31	0.86
4:O:27:LEU:O	4:O:34:ILE:HA	1.75	0.86
2:A:45:LYS:HB3	2:A:46:PRO:HD2	1.57	0.86
3:H:188:VAL:HB	3:H:189:PRO:CD	2.06	0.86
2:G:196:ASN:HD22	2:G:217:ARG:N	1.73	0.86
3:H:152:PRO:O	3:H:154:PRO:HD2	1.75	0.86
2:C:82:SER:O	2:C:83:SER:HB3	1.76	0.86
3:D:138:ASN:ND2	3:D:139:SER:N	2.24	0.86
3:H:168:VAL:HG12	3:H:169:HIS:N	1.91	0.86
3:D:140:MET:HA	3:D:190:SER:OG	1.74	0.86
1:P:24:PHE:HB3	1:P:25:PRO:HD2	1.58	0.86
2:G:2:ILE:O	2:G:4:MET:N	2.08	0.86
2:G:27:GLN:O	2:G:28:SER:O	1.93	0.86
3:H:61:ALA:C	3:H:63:ASP:N	2.31	0.86
3:D:198:VAL:H	3:D:214:LYS:HE2	1.41	0.85
1:Q:12:LYS:O	1:Q:13:ARG:HG2	1.76	0.85
2:G:3:VAL:HB	2:G:26:SER:HB3	1.56	0.85
3:B:209:THR:HG22	3:B:210:LYS:N	1.92	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:37:VAL:HG21	3:B:108:TRP:HZ3	1.42	0.85
3:B:48:MET:HA	3:B:64:PHE:CE1	2.11	0.85
2:C:152:VAL:CG2	2:C:202:ALA:HA	2.05	0.85
3:F:100:LEU:HD23	3:F:101:LEU:N	1.90	0.85
2:A:194:ARG:HG2	2:A:195:HIS:H	1.39	0.85
3:H:36:TRP:HA	3:H:95:PHE:O	1.74	0.85
2:A:184:THR:O	2:A:186:THR:HG23	1.74	0.85
2:A:12:ALA:HB3	4:L:36:THR:HB	1.58	0.85
4:N:77:ILE:HG22	4:N:79:PHE:CE1	2.11	0.85
3:B:48:MET:HA	3:B:64:PHE:CD1	2.11	0.85
3:F:7:SER:HB3	3:F:20:ILE:HG13	1.57	0.85
3:B:100:LEU:HD11	3:B:106:ASP:OD1	1.77	0.84
3:D:188:VAL:HB	3:D:189:PRO:CD	2.07	0.84
3:F:189:PRO:O	3:F:192:THR:N	2.10	0.84
3:D:142:THR:HA	3:D:187:THR:HA	1.59	0.84
1:S:22:VAL:O	1:S:22:VAL:HG12	1.77	0.84
2:A:10:SER:O	2:A:11:LEU:HG	1.77	0.84
4:M:43:PHE:O	4:M:45:GLU:N	2.10	0.84
2:E:188:THR:HG23	2:E:191:GLU:CB	2.08	0.84
4:N:66:ALA:HB3	4:O:68:LEU:HD23	1.57	0.84
3:D:210:LYS:C	3:D:211:VAL:HG12	2.02	0.84
1:S:23:LYS:O	1:S:24:PHE:HD1	1.58	0.84
2:G:84:VAL:HA	2:G:88:ASP:OD1	1.76	0.84
2:E:60:ARG:HD3	2:E:64:VAL:O	1.77	0.84
1:S:39:ARG:O	1:S:40:ARG:CB	2.24	0.84
2:C:2:ILE:HD13	2:C:96:GLN:OE1	1.78	0.84
2:C:152:VAL:HG13	2:C:201:GLU:C	2.03	0.84
2:G:112:LEU:CD2	2:G:112:LEU:CB	2.56	0.84
3:D:215:ILE:HD12	3:D:215:ILE:H	1.43	0.84
3:H:168:VAL:CG1	3:H:169:HIS:N	2.41	0.84
2:A:121:VAL:HA	2:A:141:PHE:O	1.78	0.83
2:E:39:LEU:HD13	2:E:39:LEU:C	2.03	0.83
4:N:22:THR:HG22	4:N:23:ILE:N	1.93	0.83
3:H:13:LYS:HA	3:H:117:SER:O	1.77	0.83
4:O:55:ALA:C	4:O:57:HIS:H	1.86	0.83
3:B:75:SER:C	3:B:77:SER:H	1.85	0.83
2:A:156:ILE:HG22	2:A:195:HIS:HD2	1.40	0.83
2:A:193:GLU:O	2:A:217:ARG:NH2	2.11	0.83
3:D:160:ASN:HD21	3:D:198:VAL:HA	1.42	0.83
2:C:176:ASP:HB2	2:C:178:THR:OG1	1.79	0.83
2:E:176:ASP:O	2:E:177:SER:OG	1.96	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:16:ASN:HD22	1:S:16:ASN:N	1.74	0.83
3:F:157:VAL:O	3:F:157:VAL:HG12	1.77	0.83
2:G:199:THR:HG22	2:G:214:SER:CA	2.09	0.83
2:G:199:THR:HA	2:G:213:LYS:O	1.79	0.83
2:G:56:TRP:HB2	2:G:59:THR:OG1	1.79	0.83
3:H:198:VAL:CG2	3:H:198:VAL:CG1	2.56	0.83
2:G:98:TYR:CG	2:G:99:ILE:HG13	2.13	0.83
2:C:217:ARG:C	2:C:218:ASN:CG	2.46	0.83
2:E:12:ALA:CB	2:E:12:ALA:C	2.52	0.83
3:F:182:LEU:HD23	3:F:183:SER:N	1.93	0.83
2:G:127:SER:O	2:G:128:SER:C	2.19	0.83
2:C:142:LEU:HD11	2:C:152:VAL:HG21	1.60	0.82
4:M:25:VAL:HG22	4:M:26:ASN:N	1.91	0.82
1:S:30:ILE:HD11	1:S:35:TYR:O	1.78	0.82
2:G:196:ASN:ND2	2:G:216:ASN:HB3	1.94	0.82
2:A:102:LEU:HD12	3:B:47:TRP:NE1	1.94	0.82
2:G:121:VAL:HG12	2:G:213:LYS:CG	2.09	0.82
2:G:155:LYS:HG2	2:G:160:GLU:HB2	1.59	0.82
3:B:35:HIS:O	3:B:96:CYS:HA	1.80	0.82
3:H:156:THR:OG1	3:H:203:ALA:HB3	1.79	0.82
2:A:112:LEU:HD23	2:A:113:LYS:N	1.95	0.82
4:M:79:PHE:N	4:M:79:PHE:CD1	2.48	0.82
3:H:12:LYS:HE2	3:H:12:LYS:HA	1.60	0.82
3:H:129:LEU:HD21	3:H:146:LEU:HB2	1.61	0.82
3:D:78:THR:HG22	3:D:79:ALA:N	1.94	0.82
3:H:61:ALA:O	3:H:63:ASP:N	2.12	0.82
2:C:155:LYS:HD2	2:C:158:GLY:O	1.80	0.82
3:D:188:VAL:HB	3:D:189:PRO:HD2	1.61	0.82
2:G:36:LYS:CG	2:G:36:LYS:CE	2.58	0.82
2:G:131:LEU:O	2:G:133:SER:N	2.13	0.82
2:C:130:GLN:NE2	2:C:137:SER:OG	2.13	0.82
4:M:65:THR:O	4:M:66:ALA:HB2	1.80	0.82
3:F:143:LEU:HB2	3:F:186:VAL:HG13	1.62	0.82
4:O:64:TRP:CE3	4:O:66:ALA:HB2	2.15	0.82
3:H:179:LEU:HG	3:H:180:TYR:H	1.44	0.81
2:C:181:MET:HE3	2:C:183:SER:HB2	1.63	0.81
2:E:101:PRO:O	2:E:103:THR:HG23	1.79	0.81
4:N:35:GLN:O	4:N:36:THR:OG1	1.97	0.81
1:Q:9:ARG:HG2	1:Q:9:ARG:NH1	1.96	0.81
4:M:26:ASN:N	4:M:75:MET:O	2.14	0.81
3:F:31:ASP:O	3:F:32:PHE:CG	2.33	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:65:PRO:O	2:A:67:ARG:N	2.13	0.81
3:B:209:THR:O	3:B:210:LYS:HB2	1.80	0.81
2:E:215:PHE:C	2:E:215:PHE:CD1	2.59	0.81
4:N:68:LEU:O	4:N:69:GLU:O	1.98	0.81
2:A:144:ASN:OD1	3:B:169:HIS:NE2	2.14	0.81
3:B:11:LEU:C	3:B:11:LEU:HD13	2.05	0.81
3:D:48:MET:CE	3:D:81:LEU:HD11	2.11	0.81
2:E:31:ASN:HB3	2:E:34:THR:HB	1.62	0.81
2:G:6:GLN:OE1	2:G:107:GLY:HA2	1.81	0.81
2:G:131:LEU:C	2:G:133:SER:H	1.88	0.81
3:D:3:GLN:O	3:D:4:LEU:HD23	1.80	0.81
3:H:38:ASN:H	3:H:48:MET:HG3	1.40	0.81
3:H:199:THR:HG22	3:H:214:LYS:HA	1.61	0.81
2:A:31:ASN:HD22	2:A:31:ASN:C	1.85	0.81
2:G:29:LEU:CD2	2:G:29:LEU:O	2.29	0.81
2:A:151:ASN:O	2:A:152:VAL:HG23	1.80	0.81
2:C:126:PRO:HG3	2:C:137:SER:O	1.80	0.81
3:F:54:GLU:OE2	3:F:55:THR:N	2.14	0.81
4:N:46:ALA:C	4:N:48:ALA:H	1.88	0.80
4:N:68:LEU:C	4:N:68:LEU:CB	2.54	0.80
1:S:7:PRO:CG	1:S:7:PRO:CA	2.59	0.80
3:H:133:SER:HA	3:H:218:ARG:HD3	0.83	0.80
2:C:43:GLN:HE22	2:C:45:LYS:HZ2	0.81	0.80
3:D:3:GLN:HG2	3:D:4:LEU:H	1.46	0.80
3:D:112:THR:O	3:D:114:VAL:N	2.14	0.80
2:A:105:GLY:C	2:A:107:GLY:H	1.86	0.80
2:A:166:LEU:HD11	3:B:176:GLN:NE2	1.96	0.80
3:D:180:TYR:O	3:D:181:THR:HG23	1.81	0.80
3:H:207:SER:O	3:H:209:THR:N	2.14	0.80
3:D:149:GLY:H	3:D:181:THR:HG22	1.47	0.80
1:Q:9:ARG:HH11	1:Q:9:ARG:CG	1.95	0.80
3:F:60:TYR:OH	3:F:69:ALA:HA	1.81	0.80
3:F:129:LEU:HD12	3:F:145:CYS:N	1.96	0.80
2:A:199:THR:HA	2:A:214:SER:HA	1.63	0.80
2:A:89:GLN:OE1	2:A:172:GLN:NE2	2.14	0.80
1:Q:7:PRO:HB2	1:Q:9:ARG:HH21	1.44	0.80
4:N:22:THR:HG22	4:N:23:ILE:H	1.45	0.80
1:P:30:ILE:HD11	5:P:167:HOH:O	1.83	0.79
2:C:188:THR:O	2:C:189:LYS:C	2.24	0.79
3:D:64:PHE:HB3	3:D:68:PHE:CD2	2.17	0.79
1:Q:30:ILE:HG13	1:Q:30:ILE:O	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:151:PHE:HB3	3:H:152:PRO:HD3	1.64	0.79
3:H:198:VAL:O	3:H:198:VAL:HG12	1.82	0.79
3:B:214:LYS:HE2	3:B:216:VAL:HG22	1.63	0.79
2:C:130:GLN:HB2	3:D:127:TYR:CD1	2.16	0.79
2:E:137:SER:HB3	2:E:186:THR:HG23	1.64	0.79
1:S:14:ASN:N	2:G:62:SER:HB2	1.97	0.79
3:H:72:LEU:HD21	3:H:74:THR:OG1	1.83	0.79
2:C:11:LEU:HD23	4:M:37:ALA:HB2	1.63	0.79
2:C:37:ASN:O	2:C:56:TRP:CA	2.31	0.79
2:C:71:ARG:O	2:C:78:THR:N	2.14	0.79
4:N:62:GLY:HA3	4:N:80:ALA:H	1.47	0.79
3:F:161:SER:H	3:F:201:ASN:HD21	1.29	0.79
2:A:55:TYR:O	2:A:57:ALA:N	2.16	0.79
3:F:52:ASN:HD22	3:F:57:GLU:HB2	1.48	0.79
3:H:50:TRP:HE1	3:H:59:THR:HB	1.48	0.79
3:D:53:THR:HG22	3:D:72:LEU:HD21	1.62	0.79
3:D:60:TYR:HE1	3:D:70:PHE:CD1	2.00	0.79
3:F:38:ASN:OD1	3:F:38:ASN:C	2.22	0.79
2:G:127:SER:O	2:G:129:GLU:N	2.14	0.79
4:O:34:ILE:O	4:O:35:GLN:HG2	1.82	0.79
1:Q:5:PRO:O	1:Q:6:LYS:HG3	1.81	0.79
3:H:164:LEU:CD2	3:H:164:LEU:CB	2.60	0.79
2:C:31:ASN:HB2	2:C:98:TYR:CE1	2.17	0.78
3:F:7:SER:CB	3:F:21:SER:H	1.96	0.78
3:F:109:GLY:C	3:F:111:GLY:H	1.90	0.78
2:C:33:ARG:O	2:C:34:THR:HG23	1.82	0.78
3:D:81:LEU:C	3:D:81:LEU:CD2	2.53	0.78
1:Q:40:ARG:HB3	1:Q:40:ARG:NH1	1.98	0.78
2:G:150:ILE:HD13	2:G:151:ASN:N	1.98	0.78
3:H:175:LEU:HD12	3:H:175:LEU:O	1.82	0.78
2:A:139:VAL:HG22	2:A:184:THR:HG23	1.66	0.78
2:C:19:VAL:CG1	2:C:81:ILE:HB	2.14	0.78
2:C:62:SER:CA	1:Q:11:THR:O	2.31	0.78
3:D:52:ASN:O	3:D:54:GLU:N	2.17	0.78
3:D:156:THR:HG23	3:D:203:ALA:HB3	1.63	0.78
2:G:6:GLN:CD	2:G:107:GLY:HA2	2.08	0.78
2:E:156:ILE:HA	2:E:197:SER:O	1.82	0.78
3:F:211:VAL:HG23	3:F:212:ASP:H	1.48	0.78
2:A:6:GLN:HE21	2:A:105:GLY:C	1.91	0.78
2:A:215:PHE:CG	2:A:215:PHE:O	2.35	0.78
2:C:31:ASN:ND2	1:Q:33:GLY:O	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:42:THR:HB	4:M:45:GLU:HB2	1.66	0.78
3:F:146:LEU:HG	3:F:146:LEU:O	1.83	0.78
2:G:29:LEU:HD11	2:G:39:LEU:HD23	1.64	0.78
2:G:54:ILE:HG22	2:G:60:ARG:HA	1.62	0.78
3:H:129:LEU:HD12	3:H:144:GLY:HA3	1.64	0.78
3:B:73:GLU:C	3:B:73:GLU:OE1	2.26	0.78
2:C:29:LEU:HD12	2:C:77:PHE:CZ	2.19	0.78
3:D:189:PRO:HB2	3:D:192:THR:HG23	1.65	0.78
3:F:63:ASP:O	3:F:64:PHE:HD2	1.67	0.78
2:C:1:ASP:N	2:C:27:GLN:NE2	2.31	0.78
1:Q:36:LEU:HD23	1:Q:36:LEU:O	1.84	0.78
2:E:12:ALA:HB3	2:E:113:LYS:HZ3	1.49	0.78
4:O:58:ALA:O	4:O:60:VAL:N	2.15	0.78
2:A:89:GLN:NE2	2:A:172:GLN:HB3	1.99	0.78
2:C:157:ASP:HB2	2:C:196:ASN:H	1.49	0.78
3:H:68:PHE:CE1	3:H:83:ILE:HD12	2.18	0.78
3:D:17:THR:HG22	3:D:84:ASN:HA	1.65	0.78
2:C:88:ASP:O	2:C:92:TYR:OH	2.01	0.78
2:C:121:VAL:HG12	2:C:122:SER:H	1.49	0.78
2:E:36:LYS:HE2	2:E:37:ASN:H	1.49	0.78
2:E:156:ILE:N	2:E:159:SER:O	2.15	0.78
3:H:11:LEU:HD11	3:H:151:PHE:HE2	1.48	0.78
2:A:55:TYR:C	2:A:57:ALA:H	1.92	0.77
2:A:95:LYS:HZ2	2:A:95:LYS:HB3	1.48	0.77
3:B:204:HIS:O	3:B:205:PRO:C	2.24	0.77
1:S:23:LYS:O	1:S:24:PHE:CD1	2.38	0.77
2:G:130:GLN:HB2	3:H:127:TYR:CD2	2.18	0.77
3:B:157:VAL:HA	3:B:201:ASN:O	1.83	0.77
2:G:130:GLN:HB2	3:H:127:TYR:CE2	2.20	0.77
2:G:201:GLU:HG2	2:G:212:VAL:HG11	1.65	0.77
2:C:39:LEU:HD22	2:C:40:ALA:N	2.00	0.77
3:D:138:ASN:CG	3:D:139:SER:H	1.88	0.77
2:G:29:LEU:HD13	2:G:77:PHE:CZ	2.20	0.77
3:H:4:LEU:HD23	3:H:24:ALA:HA	1.65	0.77
2:C:7:SER:CA	2:C:8:PRO:O	2.31	0.77
3:D:177:SER:O	3:D:177:SER:OG	1.95	0.77
1:Q:30:ILE:HD11	1:Q:36:LEU:HB2	1.66	0.77
3:D:48:MET:HE1	3:D:81:LEU:HD11	1.65	0.77
2:C:157:ASP:OD2	2:C:196:ASN:HB2	1.85	0.77
3:D:36:TRP:HA	3:D:95:PHE:O	1.85	0.77
3:F:198:VAL:O	3:F:198:VAL:CG1	2.25	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:141:VAL:HG12	3:B:188:VAL:O	1.85	0.77
2:E:130:GLN:NE2	2:E:137:SER:N	2.31	0.77
2:G:8:PRO:HB3	4:O:39:PHE:CE2	2.20	0.77
2:A:156:ILE:CG2	2:A:195:HIS:HD2	1.97	0.77
3:H:11:LEU:HD11	3:H:151:PHE:CE2	2.19	0.77
3:D:180:TYR:C	3:D:181:THR:HG23	2.10	0.76
1:Q:9:ARG:NH1	1:Q:9:ARG:CG	2.46	0.76
4:O:64:TRP:HE3	4:O:66:ALA:HB2	1.49	0.76
2:A:168:SER:OG	3:B:172:PRO:HD2	1.85	0.76
2:C:155:LYS:HD2	2:C:158:GLY:C	2.10	0.76
3:F:109:GLY:C	3:F:111:GLY:N	2.34	0.76
1:S:7:PRO:CG	1:S:7:PRO:N	2.48	0.76
3:H:152:PRO:C	3:H:154:PRO:HD2	2.08	0.76
2:A:130:GLN:C	2:A:132:THR:N	2.37	0.76
3:H:155:VAL:HG12	3:H:156:THR:H	1.50	0.76
3:H:186:VAL:C	3:H:187:THR:HG22	2.09	0.76
1:P:24:PHE:HB3	1:P:25:PRO:CD	2.16	0.76
2:A:31:ASN:HD22	2:A:32:SER:N	1.84	0.76
2:A:43:GLN:HB3	2:A:53:LEU:HD21	1.67	0.76
4:L:77:ILE:HD12	4:L:77:ILE:H	1.51	0.76
3:D:160:ASN:ND2	3:D:198:VAL:HA	2.01	0.76
2:G:201:GLU:HG2	2:G:212:VAL:CG1	2.15	0.76
2:A:33:ARG:CB	2:A:33:ARG:C	2.57	0.76
3:F:7:SER:HB3	3:F:21:SER:H	1.49	0.76
2:A:112:LEU:HD23	2:A:113:LYS:H	1.49	0.76
2:A:126:PRO:HG2	2:A:136:ALA:HB1	1.68	0.76
2:A:198:TYR:HB2	2:A:215:PHE:O	1.86	0.76
3:B:193:TRP:CG	3:B:194:PRO:HA	2.20	0.76
2:C:43:GLN:NE2	2:C:45:LYS:NZ	2.25	0.76
3:D:84:ASN:O	3:D:85:SER:C	2.23	0.76
3:H:50:TRP:NE1	3:H:59:THR:HB	2.01	0.76
3:H:152:PRO:C	3:H:154:PRO:CD	2.59	0.76
2:C:100:PRO:HB3	1:Q:31:VAL:HG11	1.66	0.76
3:F:190:SER:C	3:F:192:THR:H	1.93	0.76
2:G:98:TYR:CE2	2:G:99:ILE:HD11	2.12	0.76
2:A:105:GLY:O	2:A:107:GLY:N	2.18	0.76
1:S:29:GLN:NE2	3:H:52:ASN:HA	2.01	0.76
2:G:68:PHE:CE1	2:G:81:ILE:HG23	2.21	0.76
2:A:151:ASN:CG	2:A:152:VAL:H	1.93	0.76
1:S:29:GLN:HE21	3:H:53:THR:N	1.84	0.76
2:G:17:GLU:O	2:G:82:SER:O	2.04	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:38:ASN:H	3:H:48:MET:CG	1.99	0.76
2:A:58:SER:HA	2:A:70:GLY:O	1.86	0.76
4:L:55:ALA:CB	4:L:55:ALA:HA	2.11	0.76
3:F:175:LEU:HD13	3:F:180:TYR:CE1	2.21	0.76
3:H:175:LEU:CD1	3:H:175:LEU:HG	2.12	0.76
2:A:151:ASN:OD1	2:A:152:VAL:N	2.17	0.75
2:E:185:LEU:HD12	2:E:186:THR:N	2.01	0.75
3:F:67:ARG:CB	3:F:67:ARG:HH11	1.98	0.75
1:S:35:TYR:O	1:S:36:LEU:HB2	1.85	0.75
3:H:51:VAL:O	3:H:52:ASN:HB2	1.84	0.75
3:B:40:ALA:HB3	3:B:43:LYS:HB2	1.69	0.75
2:C:173:ASP:OD1	2:C:175:LYS:HB2	1.87	0.75
3:D:30:THR:HG23	3:D:31:ASP:OD1	1.85	0.75
1:Q:40:ARG:HB3	1:Q:40:ARG:CZ	2.16	0.75
2:G:172:GLN:HG2	2:G:179:TYR:CZ	2.22	0.75
3:H:6:GLN:NE2	3:H:111:GLY:HA2	2.01	0.75
2:C:217:ARG:HG2	2:C:218:ASN:ND2	2.01	0.75
3:F:100:LEU:CD2	3:F:100:LEU:CD1	2.62	0.75
4:M:43:PHE:C	4:M:45:GLU:H	1.92	0.75
2:G:39:LEU:CD1	2:G:40:ALA:H	1.99	0.75
1:P:40:ARG:HE	3:F:98:ARG:NH1	1.83	0.75
3:B:52:ASN:O	3:B:54:GLU:N	2.18	0.75
3:D:31:ASP:O	3:D:32:PHE:CG	2.40	0.75
3:F:75:SER:OG	3:F:76:ALA:N	2.19	0.75
3:F:192:THR:HB	3:F:196:GLU:OE2	1.87	0.75
2:G:131:LEU:C	2:G:133:SER:N	2.43	0.75
2:A:21:MET:HE3	2:A:79:LEU:HD23	1.66	0.75
2:A:125:PRO:HD2	3:B:218:ARG:HH21	1.52	0.75
3:B:91:THR:HG23	3:B:115:THR:HA	1.68	0.75
2:C:97:ALA:HB3	3:D:103:GLN:HB3	1.69	0.75
3:D:37:VAL:HG22	3:D:47:TRP:HA	1.69	0.75
3:D:151:PHE:HB3	3:D:152:PRO:HD3	1.67	0.75
3:F:161:SER:H	3:F:201:ASN:ND2	1.83	0.75
1:S:30:ILE:CG2	3:H:101:LEU:HB3	2.16	0.75
2:A:198:TYR:CB	2:A:215:PHE:CD2	2.70	0.75
3:D:19:LYS:HG3	3:D:82:GLN:HG3	1.68	0.75
2:G:40:ALA:O	2:G:94:CYS:HA	1.87	0.75
4:O:32:GLY:O	4:O:33:LYS:HG3	1.87	0.75
3:B:19:LYS:HE2	3:B:80:TYR:CD1	2.22	0.74
3:B:52:ASN:C	3:B:54:GLU:H	1.95	0.74
2:C:23:CYS:HB2	2:C:41:TRP:CH2	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:108:TRP:N	3:D:108:TRP:CD1	2.54	0.74
4:M:42:THR:HB	4:M:45:GLU:CB	2.17	0.74
2:G:8:PRO:HB2	4:O:38:GLU:O	1.86	0.74
3:H:87:LYS:HE3	5:H:227:HOH:O	1.87	0.74
2:E:157:ASP:CG	2:E:195:HIS:HB3	2.11	0.74
3:H:155:VAL:CG1	3:H:156:THR:N	2.47	0.74
3:H:189:PRO:O	3:H:192:THR:OG1	2.05	0.74
3:D:99:PHE:CZ	3:D:103:GLN:HA	2.22	0.74
2:G:30:LEU:HD12	2:G:36:LYS:N	2.01	0.74
3:D:93:THR:O	3:D:94:TYR:HB2	1.85	0.74
3:D:193:TRP:CD1	3:D:194:PRO:HA	2.23	0.74
2:E:153:LYS:CE	2:E:160:GLU:CD	2.60	0.74
3:B:6:GLN:NE2	3:B:111:GLY:N	2.33	0.74
2:C:37:ASN:ND2	2:C:74:GLY:H	1.85	0.74
2:E:55:TYR:CD1	3:F:104:TYR:CE2	2.75	0.74
2:G:167:ASN:HA	2:G:183:SER:HA	1.69	0.74
4:O:53:TYR:O	4:O:56:LEU:HB3	1.86	0.74
3:B:22:CYS:SG	3:B:34:MET:HE3	2.27	0.74
2:G:204:HIS:CG	2:G:205:LYS:N	2.55	0.74
3:H:67:ARG:HG3	3:H:68:PHE:CE2	2.22	0.74
4:O:55:ALA:C	4:O:57:HIS:N	2.37	0.74
1:P:36:LEU:O	1:P:37:LEU:HB3	1.86	0.74
2:C:45:LYS:O	2:C:48:GLN:HB2	1.87	0.74
3:D:210:LYS:C	3:D:211:VAL:CG1	2.59	0.74
2:E:55:TYR:O	2:E:57:ALA:N	2.21	0.74
3:F:190:SER:O	3:F:192:THR:N	2.21	0.74
2:E:201:GLU:HG2	2:E:212:VAL:CG2	2.17	0.74
2:G:124:PHE:HE1	2:G:141:PHE:CD2	2.06	0.74
4:L:28:ILE:CG2	4:L:28:ILE:CA	2.66	0.74
4:L:54:ALA:C	4:L:56:LEU:N	2.46	0.74
2:C:152:VAL:HG13	2:C:201:GLU:O	1.87	0.74
2:E:114:ARG:HG3	2:E:115:ALA:O	1.87	0.74
2:G:167:ASN:H	2:G:167:ASN:HD22	1.34	0.74
2:C:185:LEU:HG	2:C:185:LEU:O	1.88	0.73
1:S:31:VAL:HA	3:H:99:PHE:HE1	1.53	0.73
2:G:148:LYS:HB3	2:G:179:TYR:CD1	2.23	0.73
3:D:152:PRO:O	3:D:154:PRO:CD	2.37	0.73
3:D:154:PRO:CG	3:D:205:PRO:HG2	2.18	0.73
4:N:68:LEU:CD2	4:O:51:TYR:OH	2.36	0.73
2:C:148:LYS:O	2:C:149:ASP:C	2.31	0.73
3:F:64:PHE:O	3:F:65:LYS:C	2.31	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:42:THR:O	4:O:43:PHE:C	2.31	0.73
2:A:96:GLN:HG3	2:A:103:THR:OG1	1.88	0.73
2:A:102:LEU:C	2:A:103:THR:HG23	2.13	0.73
2:C:38:TYR:CE2	2:C:56:TRP:NE1	2.55	0.73
2:C:46:PRO:HD3	2:C:90:ALA:HA	1.70	0.73
3:D:129:LEU:HB2	3:D:144:GLY:C	2.14	0.73
2:E:132:THR:O	2:E:133:SER:CB	2.27	0.73
3:H:121:THR:HG23	3:H:152:PRO:HG2	1.68	0.73
3:B:138:ASN:CG	3:B:139:SER:N	2.38	0.73
2:C:206:THR:CG2	2:C:206:THR:CA	2.67	0.73
3:D:20:ILE:HD11	3:D:81:LEU:HB3	1.69	0.73
2:E:130:GLN:NE2	2:E:136:ALA:C	2.46	0.73
3:F:58:PRO:O	3:F:58:PRO:HG2	1.86	0.73
2:G:202:ALA:O	2:G:210:PRO:HB3	1.89	0.73
2:A:3:VAL:HG13	2:A:26:SER:OG	1.88	0.73
2:A:118:ALA:N	2:A:206:THR:HG21	2.03	0.73
3:B:54:GLU:O	3:B:55:THR:C	2.31	0.73
2:G:30:LEU:CD1	2:G:36:LYS:N	2.51	0.73
3:D:175:LEU:HD13	3:D:180:TYR:CE1	2.23	0.73
2:E:185:LEU:HD12	2:E:185:LEU:C	2.12	0.73
3:D:91:THR:HG22	3:D:91:THR:O	1.87	0.73
4:N:47:THR:HG23	4:N:47:THR:O	1.87	0.73
3:B:119:ALA:CB	3:B:119:ALA:C	2.61	0.73
2:C:105:GLY:O	2:C:106:ALA:O	2.07	0.73
2:C:39:LEU:HD22	2:C:40:ALA:H	1.52	0.73
3:D:78:THR:CG2	3:D:79:ALA:N	2.52	0.73
2:E:83:SER:O	2:E:84:VAL:C	2.30	0.73
2:E:150:ILE:HD13	2:E:151:ASN:H	1.52	0.73
3:H:175:LEU:CD1	3:H:175:LEU:CB	2.67	0.73
3:D:20:ILE:CG1	3:D:81:LEU:O	2.36	0.72
3:B:204:HIS:O	3:B:206:ALA:N	2.22	0.72
2:G:29:LEU:O	2:G:29:LEU:HD22	1.89	0.72
2:G:102:LEU:CD1	2:G:102:LEU:CD2	2.65	0.72
3:H:106:ASP:CG	3:H:107:VAL:N	2.43	0.72
3:H:188:VAL:CG2	3:H:188:VAL:CG1	2.67	0.72
2:C:8:PRO:HG2	2:C:108:THR:CG2	2.20	0.72
2:C:123:ILE:HD12	2:C:139:VAL:O	1.89	0.72
3:D:154:PRO:HG2	3:D:205:PRO:HG2	1.69	0.72
2:E:27:GLN:O	2:E:28:SER:O	2.07	0.72
2:E:172:GLN:HE21	2:E:177:SER:HB2	1.52	0.72
3:F:100:LEU:CD2	3:F:100:LEU:HG	2.14	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:152:VAL:CG1	2:G:153:LYS:N	2.52	0.72
2:A:12:ALA:O	2:A:113:LYS:HG3	1.90	0.72
2:A:128:SER:O	2:A:129:GLU:C	2.32	0.72
4:L:67:ASP:OD1	4:L:76:ASN:HB2	1.87	0.72
3:F:52:ASN:HB3	3:F:55:THR:OG1	1.89	0.72
4:N:56:LEU:HD12	4:N:56:LEU:C	2.14	0.72
1:S:18:ARG:HB3	1:S:19:PRO:HD3	1.70	0.72
3:H:122:THR:O	3:H:150:TYR:HA	1.89	0.72
3:H:160:ASN:O	3:H:163:SER:N	2.22	0.72
4:O:25:VAL:O	4:O:25:VAL:HG13	1.89	0.72
1:P:36:LEU:CD2	3:B:102:ARG:HH22	2.01	0.72
1:P:36:LEU:HD21	3:B:102:ARG:HH22	1.55	0.72
3:B:73:GLU:O	3:B:75:SER:N	2.23	0.72
4:L:78:LYS:HE3	5:L:83:HOH:O	1.89	0.72
3:D:74:THR:O	3:D:75:SER:C	2.32	0.72
3:D:81:LEU:HD23	3:D:82:GLN:N	2.03	0.72
3:H:65:LYS:C	3:H:67:ARG:H	1.98	0.72
2:G:98:TYR:CD2	2:G:99:ILE:HG13	2.24	0.72
3:H:133:SER:O	3:H:218:ARG:NH1	2.21	0.72
2:A:112:LEU:CB	2:A:172:GLN:HE22	2.02	0.72
3:D:138:ASN:HD22	3:D:139:SER:H	1.34	0.72
3:H:6:GLN:CD	3:H:111:GLY:H	1.97	0.72
2:E:18:LYS:HG2	2:E:19:VAL:N	2.04	0.72
4:N:49:GLU:OE1	4:N:49:GLU:O	2.08	0.72
4:N:79:PHE:N	4:N:79:PHE:CD1	2.54	0.72
2:G:167:ASN:HB3	2:G:183:SER:CB	2.20	0.72
2:G:200:CYS:HB3	2:G:213:LYS:HB2	1.70	0.72
3:H:88:ASN:O	3:H:90:ASP:N	2.22	0.72
3:B:6:GLN:HE22	3:B:111:GLY:H	1.36	0.72
2:E:55:TYR:O	2:E:56:TRP:C	2.33	0.72
3:F:61:ALA:O	3:F:65:LYS:HG3	1.90	0.72
4:N:21:VAL:HG13	4:N:22:THR:N	2.04	0.72
2:C:65:PRO:O	2:C:66:ASP:C	2.32	0.71
2:A:216:ASN:O	2:A:218:ASN:N	2.22	0.71
3:B:65:LYS:HA	3:B:65:LYS:HZ2	1.53	0.71
2:C:30:LEU:HG	2:C:37:ASN:HD21	1.55	0.71
2:C:36:LYS:HD3	2:C:56:TRP:CE3	2.25	0.71
1:Q:31:VAL:CA	1:Q:31:VAL:CG1	2.67	0.71
2:E:153:LYS:HG3	2:E:160:GLU:OE1	1.89	0.71
2:E:191:GLU:OE2	2:E:194:ARG:NH1	2.23	0.71
3:F:159:TRP:CZ2	3:F:186:VAL:HG12	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:152:PRO:O	3:H:154:PRO:CD	2.37	0.71
2:A:105:GLY:C	2:A:107:GLY:N	2.35	0.71
3:B:86:LEU:HB3	3:B:116:VAL:HG21	1.71	0.71
4:M:27:LEU:O	4:M:34:ILE:HD13	1.90	0.71
2:E:130:GLN:NE2	2:E:136:ALA:HA	2.05	0.71
2:G:201:GLU:HA	2:G:212:VAL:HG12	1.71	0.71
2:A:43:GLN:NE2	2:A:92:TYR:OH	2.19	0.71
2:C:32:SER:O	2:C:34:THR:N	2.22	0.71
2:C:71:ARG:N	2:C:78:THR:O	2.23	0.71
4:M:28:ILE:O	4:M:78:LYS:HA	1.88	0.71
4:N:21:VAL:HG13	4:N:22:THR:H	1.54	0.71
2:G:102:LEU:HD23	3:H:105:PHE:CZ	2.26	0.71
2:G:176:ASP:O	2:G:178:THR:HG23	1.90	0.71
3:H:70:PHE:HE2	3:H:81:LEU:HD23	1.55	0.71
2:A:191:GLU:N	2:A:191:GLU:C	2.48	0.71
2:C:173:ASP:CG	2:C:175:LYS:HB2	2.14	0.71
3:H:70:PHE:CE2	3:H:81:LEU:HD23	2.26	0.71
3:B:18:VAL:HG22	3:B:19:LYS:N	2.04	0.71
2:C:37:ASN:ND2	2:C:74:GLY:N	2.38	0.71
2:G:19:VAL:HG13	2:G:81:ILE:HB	1.73	0.71
2:C:146:TYR:CG	2:C:147:PRO:HA	2.26	0.71
3:D:159:TRP:HZ3	3:D:215:ILE:HD11	1.54	0.71
1:P:22:VAL:HA	1:P:24:PHE:CE2	2.26	0.71
3:D:72:LEU:O	3:D:74:THR:N	2.21	0.71
1:Q:44:LEU:HD13	1:Q:45:GLY:N	1.99	0.71
2:E:7:SER:HB2	2:E:8:PRO:HA	1.70	0.71
2:E:45:LYS:HG2	2:E:90:ALA:HB2	1.73	0.71
2:E:95:LYS:HB2	2:E:104:PHE:CD2	2.26	0.71
4:N:50:ALA:O	4:N:51:TYR:C	2.34	0.71
1:S:11:THR:HG21	1:S:12:LYS:NZ	2.05	0.71
2:G:52:VAL:HG22	2:G:53:LEU:N	2.04	0.71
2:G:98:TYR:CZ	2:G:99:ILE:CD1	2.64	0.71
4:L:21:VAL:HG12	4:L:22:THR:N	2.06	0.71
1:S:29:GLN:HE21	3:H:53:THR:H	1.35	0.71
2:A:3:VAL:HG22	2:A:26:SER:CB	2.14	0.70
2:A:6:GLN:HE22	2:A:93:TYR:HA	1.55	0.70
2:C:42:TYR:HH	3:D:105:PHE:H	1.37	0.70
2:C:122:SER:O	2:C:140:CYS:HA	1.91	0.70
2:E:39:LEU:HD22	2:E:40:ALA:N	2.06	0.70
2:A:48:GLN:NE2	2:A:48:GLN:H	1.88	0.70
3:D:146:LEU:HD12	3:D:147:VAL:N	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:29:GLN:NE2	3:H:53:THR:N	2.40	0.70
2:A:89:GLN:NE2	2:A:172:GLN:HG2	2.06	0.70
2:A:143:ASN:HA	2:A:180:SER:HB3	1.74	0.70
3:D:111:GLY:O	3:D:112:THR:OG1	2.08	0.70
3:F:17:THR:HG23	3:F:84:ASN:OD1	1.91	0.70
3:F:54:GLU:OE2	3:F:54:GLU:C	2.35	0.70
4:N:62:GLY:HA3	4:N:80:ALA:N	2.06	0.70
2:A:190:ASP:C	2:A:192:TYR:H	1.99	0.70
3:B:11:LEU:HD22	3:B:12:LYS:N	2.07	0.70
3:D:29:PHE:CE1	3:D:53:THR:HG21	2.26	0.70
3:D:211:VAL:HG23	3:D:212:ASP:N	2.07	0.70
2:G:196:ASN:ND2	2:G:217:ARG:N	2.39	0.70
2:C:62:SER:OG	1:Q:14:ASN:ND2	2.25	0.70
2:E:11:LEU:HD23	4:N:37:ALA:HB2	1.72	0.70
2:E:190:ASP:O	2:E:194:ARG:HB2	1.92	0.70
3:F:171:PHE:N	3:F:171:PHE:CD1	2.55	0.70
2:G:98:TYR:CD1	2:G:98:TYR:O	2.44	0.70
2:A:43:GLN:CB	2:A:53:LEU:HD21	2.21	0.70
2:A:60:ARG:HH12	2:A:68:PHE:H	1.39	0.70
2:A:89:GLN:OE1	2:A:177:SER:HA	1.90	0.70
2:A:118:ALA:CB	2:A:118:ALA:C	2.64	0.70
3:B:207:SER:O	3:B:208:SER:C	2.28	0.70
2:C:37:ASN:O	2:C:56:TRP:HA	1.91	0.70
2:C:67:ARG:CD	2:C:67:ARG:CB	2.66	0.70
3:D:1:GLN:CD	1:Q:13:ARG:HD2	2.16	0.70
3:F:19:LYS:CD	3:F:19:LYS:CB	2.69	0.70
3:F:103:GLN:N	3:F:103:GLN:OE1	2.25	0.70
2:A:130:GLN:O	2:A:132:THR:N	2.23	0.70
2:G:12:ALA:CB	4:O:36:THR:HB	2.22	0.70
2:E:130:GLN:NE2	2:E:136:ALA:CA	2.55	0.70
3:F:34:MET:HG3	3:F:35:HIS:N	2.05	0.70
2:G:151:ASN:C	2:G:152:VAL:HG23	2.15	0.70
1:P:40:ARG:NE	3:F:98:ARG:HH12	1.90	0.70
3:B:36:TRP:CH2	3:B:81:LEU:HB2	2.27	0.70
4:L:56:LEU:HG	4:L:57:HIS:H	1.55	0.70
2:C:112:LEU:HB3	2:C:172:GLN:OE1	1.92	0.70
3:F:182:LEU:HD23	3:F:182:LEU:C	2.16	0.70
2:G:20:THR:HB	2:G:80:THR:HG22	1.74	0.70
2:G:102:LEU:HB2	3:H:47:TRP:CD1	2.26	0.70
2:G:125:PRO:HB3	2:G:215:PHE:CZ	2.26	0.70
2:G:196:ASN:HD21	2:G:216:ASN:HB3	1.54	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:94:CYS:O	2:A:104:PHE:HA	1.92	0.69
3:D:165:SER:O	3:D:168:VAL:HG21	1.91	0.69
2:G:14:SER:HB3	2:G:17:GLU:CD	2.17	0.69
3:H:45:LEU:HD22	3:H:45:LEU:N	2.06	0.69
3:H:155:VAL:CG1	3:H:156:THR:H	2.05	0.69
2:E:24:LYS:HE3	2:E:76:ASP:OD1	1.92	0.69
2:E:172:GLN:NE2	2:E:177:SER:HB2	2.07	0.69
3:F:91:THR:HG23	3:F:115:THR:HA	1.73	0.69
1:S:29:GLN:O	1:S:30:ILE:HB	1.92	0.69
2:G:27:GLN:O	2:G:28:SER:C	2.34	0.69
1:Q:37:LEU:HB3	1:Q:38:PRO:HD3	1.74	0.69
1:S:11:THR:HG21	1:S:12:LYS:HZ3	1.56	0.69
2:G:156:ILE:HD12	2:G:161:ARG:CG	2.21	0.69
3:H:175:LEU:CD2	3:H:175:LEU:CB	2.69	0.69
2:A:190:ASP:O	2:A:192:TYR:N	2.26	0.69
3:B:150:TYR:O	3:B:151:PHE:HB2	1.93	0.69
3:D:60:TYR:CE1	3:D:70:PHE:CD1	2.80	0.69
3:F:153:GLU:OE1	3:F:173:ALA:HB3	1.92	0.69
2:G:56:TRP:O	2:G:57:ALA:CB	2.41	0.69
2:G:85:GLN:O	2:G:88:ASP:HB2	1.92	0.69
2:G:110:LEU:O	2:G:111:GLU:O	2.09	0.69
2:C:55:TYR:N	2:C:55:TYR:CD1	2.60	0.69
2:E:165:VAL:C	2:E:166:LEU:HD12	2.17	0.69
1:P:22:VAL:HA	1:P:24:PHE:CZ	2.28	0.69
3:B:126:VAL:CG2	3:B:126:VAL:CA	2.67	0.69
2:C:6:GLN:OE1	2:C:107:GLY:HA2	1.93	0.69
2:C:55:TYR:N	2:C:55:TYR:HD1	1.91	0.69
2:C:145:PHE:CD1	2:C:145:PHE:C	2.70	0.69
2:E:88:ASP:C	2:E:90:ALA:H	1.99	0.69
2:G:156:ILE:HD12	2:G:161:ARG:HG2	1.73	0.69
2:G:167:ASN:ND2	2:G:167:ASN:N	2.31	0.69
3:H:217:PRO:O	3:H:217:PRO:HG2	1.91	0.69
2:C:188:THR:O	2:C:189:LYS:O	2.09	0.69
1:Q:9:ARG:O	1:Q:10:LYS:O	2.09	0.69
1:S:34:VAL:HG23	2:G:31:ASN:HB2	1.73	0.69
3:H:40:ALA:HB3	3:H:43:LYS:HG3	1.72	0.69
3:H:52:ASN:HB3	3:H:55:THR:HB	1.72	0.69
4:O:25:VAL:HG11	4:O:39:PHE:HE1	1.57	0.69
2:A:45:LYS:HG2	2:A:90:ALA:HB2	1.75	0.69
2:C:37:ASN:C	2:C:56:TRP:HA	2.18	0.69
2:C:52:VAL:HG21	3:D:104:TYR:CD1	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:140:MET:CA	3:D:190:SER:OG	2.41	0.69
2:E:28:SER:HA	2:E:74:GLY:O	1.93	0.69
3:F:99:PHE:HD2	3:F:105:PHE:CE1	2.09	0.69
3:F:158:THR:OG1	3:F:159:TRP:N	2.23	0.69
4:N:28:ILE:CG2	4:N:28:ILE:CA	2.69	0.69
2:G:102:LEU:CD1	2:G:102:LEU:CB	2.69	0.69
3:H:72:LEU:HD23	3:H:73:GLU:N	2.07	0.69
4:O:70:ASP:HB3	4:O:73:ASN:HB3	1.75	0.69
2:A:142:LEU:N	2:A:142:LEU:HD23	2.07	0.69
3:D:135:ALA:C	3:D:137:THR:H	2.01	0.69
3:D:175:LEU:HG	3:D:176:GLN:H	1.58	0.69
2:E:12:ALA:CB	2:E:113:LYS:HZ3	2.06	0.69
3:H:114:VAL:HG22	3:H:115:THR:N	2.06	0.69
3:B:179:LEU:CD1	3:B:179:LEU:CB	2.70	0.69
4:L:77:ILE:O	4:L:77:ILE:HG22	1.92	0.69
2:E:75:THR:HG23	2:E:76:ASP:OD2	1.91	0.69
2:E:139:VAL:HG12	2:E:184:THR:HG23	1.75	0.69
2:E:143:ASN:O	2:E:144:ASN:C	2.30	0.69
1:S:13:ARG:HH11	1:S:13:ARG:CB	2.06	0.69
2:G:155:LYS:HA	2:G:160:GLU:HA	1.73	0.69
3:H:88:ASN:O	3:H:89:GLU:C	2.33	0.69
2:A:31:ASN:C	2:A:31:ASN:ND2	2.46	0.68
3:B:37:VAL:HG21	3:B:108:TRP:CZ3	2.28	0.68
4:L:21:VAL:HG12	4:L:22:THR:H	1.56	0.68
4:O:21:VAL:CG1	4:O:22:THR:N	2.56	0.68
4:O:59:LYS:CG	4:O:59:LYS:CA	2.69	0.68
4:O:73:ASN:C	4:O:73:ASN:CB	2.65	0.68
3:B:153:GLU:HB3	3:B:154:PRO:HA	1.75	0.68
3:B:161:SER:H	3:B:201:ASN:ND2	1.90	0.68
2:C:130:GLN:NE2	2:C:137:SER:H	1.90	0.68
3:F:32:PHE:CE1	3:F:100:LEU:HG	2.28	0.68
5:G:224:HOH:O	3:H:167:GLY:HA3	1.92	0.68
3:D:152:PRO:O	3:D:154:PRO:HD2	1.92	0.68
1:Q:31:VAL:CB	1:Q:31:VAL:HA	2.13	0.68
2:E:60:ARG:HG2	2:E:61:GLU:O	1.94	0.68
3:H:12:LYS:HG3	3:H:18:VAL:HB	1.76	0.68
2:A:34:THR:CG2	2:A:36:LYS:HB2	2.24	0.68
2:C:7:SER:HA	2:C:8:PRO:C	2.19	0.68
2:E:68:PHE:CD1	2:E:81:ILE:HG12	2.28	0.68
2:E:201:GLU:HG2	2:E:212:VAL:HG22	1.75	0.68
1:S:29:GLN:C	1:S:30:ILE:HG22	2.16	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:14:SER:OG	2:G:15:ALA:N	2.13	0.68
2:G:196:ASN:O	2:G:216:ASN:HA	1.93	0.68
3:H:176:GLN:C	3:H:178:ASP:N	2.45	0.68
2:A:185:LEU:HD12	2:A:186:THR:N	2.07	0.68
2:A:198:TYR:CB	2:A:215:PHE:HD2	2.07	0.68
3:B:116:VAL:HG13	3:B:116:VAL:O	1.91	0.68
2:C:62:SER:HB3	1:Q:11:THR:O	1.93	0.68
4:N:58:ALA:O	4:N:60:VAL:N	2.26	0.68
3:B:11:LEU:HD22	3:B:12:LYS:H	1.58	0.68
3:B:55:THR:HG22	3:B:57:GLU:HB2	1.76	0.68
2:C:29:LEU:N	2:C:29:LEU:HD23	2.07	0.68
2:C:204:HIS:CE1	2:C:206:THR:HG23	2.28	0.68
2:E:31:ASN:HD22	2:E:31:ASN:C	2.01	0.68
3:F:94:TYR:CD2	3:F:94:TYR:N	2.60	0.68
3:D:152:PRO:O	3:D:153:GLU:C	2.36	0.68
1:Q:11:THR:CB	1:Q:11:THR:HA	2.14	0.68
2:E:24:LYS:HE3	2:E:76:ASP:CG	2.19	0.68
2:E:95:LYS:CE	2:E:95:LYS:CG	2.71	0.68
2:G:52:VAL:HG13	2:G:52:VAL:O	1.74	0.68
3:H:60:TYR:OH	3:H:70:PHE:N	2.26	0.68
3:B:215:ILE:O	3:B:215:ILE:HG22	1.94	0.68
2:E:102:LEU:C	2:E:103:THR:CG2	2.66	0.68
2:G:86:ALA:C	2:G:88:ASP:H	1.99	0.68
3:H:34:MET:O	3:H:51:VAL:CG2	2.40	0.68
3:H:214:LYS:HG2	3:H:215:ILE:H	1.57	0.68
2:A:21:MET:HE3	2:A:79:LEU:CD2	2.24	0.68
3:B:55:THR:HG23	2:E:99:ILE:HD12	1.76	0.68
3:B:162:GLY:O	3:B:163:SER:C	2.37	0.68
3:B:182:LEU:HG	3:B:183:SER:N	2.07	0.68
4:L:64:TRP:HE3	4:L:66:ALA:H	1.39	0.68
2:C:16:GLY:HA2	2:C:83:SER:C	2.18	0.68
2:C:56:TRP:O	2:C:57:ALA:HB3	1.93	0.68
2:C:189:LYS:CB	2:C:189:LYS:HA	2.13	0.68
4:M:24:LYS:CG	4:M:24:LYS:CA	2.70	0.68
2:E:11:LEU:CD1	2:E:11:LEU:CD2	2.68	0.68
3:F:190:SER:C	3:F:192:THR:N	2.44	0.68
2:A:3:VAL:CG2	2:A:26:SER:HB2	2.17	0.68
2:A:112:LEU:HB3	2:A:172:GLN:HE22	1.57	0.68
3:B:73:GLU:C	3:B:75:SER:H	2.02	0.68
2:C:188:THR:HG23	2:C:191:GLU:CB	2.24	0.68
2:C:189:LYS:CB	2:C:189:LYS:N	2.56	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:23:CYS:N	2:G:77:PHE:O	2.24	0.68
3:H:64:PHE:C	3:H:68:PHE:CD2	2.72	0.68
3:B:28:THR:O	3:B:29:PHE:C	2.37	0.67
4:L:57:HIS:CB	4:L:61:ASN:HD21	2.03	0.67
3:D:210:LYS:O	3:D:211:VAL:HG12	1.94	0.67
4:M:62:GLY:HA3	4:M:80:ALA:HB3	1.76	0.67
2:G:203:THR:HA	2:G:210:PRO:HB3	1.76	0.67
3:H:72:LEU:CD2	3:H:74:THR:H	2.07	0.67
2:C:167:ASN:HD22	2:C:183:SER:CB	2.08	0.67
1:Q:9:ARG:NH1	1:Q:9:ARG:CB	2.57	0.67
4:M:23:ILE:O	4:M:23:ILE:HG22	1.94	0.67
2:E:102:LEU:O	2:E:103:THR:HG23	1.94	0.67
1:S:43:ARG:HA	1:S:43:ARG:HH21	1.59	0.67
2:G:98:TYR:CD2	2:G:99:ILE:HD12	2.28	0.67
4:M:21:VAL:HG12	4:M:22:THR:H	1.59	0.67
2:E:89:GLN:CG	2:E:89:GLN:CA	2.69	0.67
2:G:102:LEU:HD22	3:H:47:TRP:NE1	2.08	0.67
3:H:10:GLU:O	3:H:115:THR:N	2.28	0.67
2:C:142:LEU:CD1	2:C:152:VAL:HG21	2.23	0.67
2:E:6:GLN:NE2	2:E:41:TRP:HZ3	1.92	0.67
4:O:75:MET:SD	4:O:77:ILE:HD11	2.34	0.67
3:B:182:LEU:CG	3:B:183:SER:N	2.57	0.67
2:C:145:PHE:CD1	2:C:145:PHE:O	2.48	0.67
3:H:19:LYS:CB	3:H:19:LYS:CD	2.72	0.67
3:B:11:LEU:HB2	3:B:152:PRO:HG3	1.77	0.67
3:B:65:LYS:HA	3:B:65:LYS:HZ3	1.57	0.67
3:B:188:VAL:HB	3:B:189:PRO:CD	2.25	0.67
2:C:30:LEU:CD1	2:C:30:LEU:CB	2.71	0.67
2:G:98:TYR:CD2	2:G:99:ILE:CD1	2.78	0.67
2:G:148:LYS:HD3	2:G:179:TYR:CZ	2.30	0.67
3:H:55:THR:HG22	3:H:57:GLU:HB2	1.76	0.67
4:L:28:ILE:CG2	4:L:28:ILE:CG1	2.71	0.67
2:E:110:LEU:HG	2:E:110:LEU:O	1.95	0.67
3:F:32:PHE:CE2	3:F:98:ARG:NH2	2.63	0.67
2:G:166:LEU:HD12	2:G:186:THR:OG1	1.95	0.67
4:L:25:VAL:HG22	4:L:26:ASN:H	1.59	0.67
3:D:199:THR:HA	3:D:214:LYS:HA	1.76	0.67
2:E:128:SER:O	2:E:131:LEU:N	2.28	0.67
2:E:130:GLN:HE22	2:E:136:ALA:C	2.02	0.67
2:G:138:VAL:O	2:G:185:LEU:N	2.27	0.67
2:G:211:ILE:HD12	2:G:212:VAL:H	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:54:ILE:CD1	2:A:70:GLY:N	2.57	0.67
3:B:87:LYS:O	3:B:90:ASP:CB	2.35	0.67
4:L:25:VAL:HG22	4:L:26:ASN:N	2.09	0.67
2:G:67:ARG:NH2	2:G:85:GLN:HG3	2.10	0.67
2:G:67:ARG:HD2	2:G:68:PHE:CZ	2.30	0.66
2:G:68:PHE:HE1	2:G:81:ILE:HG23	1.59	0.66
3:B:18:VAL:CG2	3:B:19:LYS:N	2.58	0.66
3:B:60:TYR:HB2	3:B:65:LYS:HZ1	1.60	0.66
2:C:152:VAL:CG1	2:C:153:LYS:N	2.57	0.66
3:D:211:VAL:HG23	3:D:212:ASP:O	1.94	0.66
4:M:27:LEU:HD12	4:M:35:GLN:HB2	1.77	0.66
2:E:187:LEU:HD22	2:E:191:GLU:OE1	1.95	0.66
3:F:20:ILE:HD12	3:F:112:THR:HB	1.75	0.66
2:A:37:ASN:HD21	2:A:74:GLY:N	1.93	0.66
2:A:118:ALA:HB1	2:A:119:PRO:HD2	1.77	0.66
4:L:62:GLY:HA3	4:L:81:GLY:N	2.11	0.66
2:E:55:TYR:HD2	2:E:56:TRP:HB2	1.60	0.66
3:F:51:VAL:O	3:F:53:THR:N	2.29	0.66
3:H:209:THR:O	3:H:210:LYS:HB2	1.95	0.66
3:D:197:THR:CB	3:D:197:THR:C	2.63	0.66
2:A:128:SER:HA	2:A:131:LEU:HD12	1.77	0.66
2:A:151:ASN:CG	2:A:152:VAL:N	2.51	0.66
2:E:60:ARG:NH1	2:E:66:ASP:HA	2.10	0.66
2:E:123:ILE:HA	2:E:140:CYS:HA	1.78	0.66
2:G:176:ASP:O	2:G:177:SER:C	2.38	0.66
3:H:188:VAL:HB	3:H:189:PRO:HD2	1.77	0.66
3:B:182:LEU:C	3:B:182:LEU:CD2	2.53	0.66
4:L:21:VAL:CG1	4:L:22:THR:H	2.07	0.66
3:F:20:ILE:HG12	3:F:21:SER:N	2.10	0.66
3:H:207:SER:OG	3:H:209:THR:HG23	1.94	0.66
4:O:75:MET:O	4:O:75:MET:CG	2.33	0.66
2:A:89:GLN:CD	2:A:172:GLN:NE2	2.53	0.66
2:A:89:GLN:CD	2:A:172:GLN:HE21	2.02	0.66
2:A:130:GLN:CB	3:B:127:TYR:CE1	2.77	0.66
3:B:87:LYS:O	3:B:90:ASP:N	2.27	0.66
2:C:37:ASN:HD21	2:C:74:GLY:N	1.92	0.66
2:A:65:PRO:C	2:A:67:ARG:H	2.04	0.66
2:A:89:GLN:HE22	2:A:172:GLN:HG2	1.61	0.66
2:A:118:ALA:CA	2:A:206:THR:HG21	2.26	0.66
2:G:20:THR:CG2	5:G:221:HOH:O	2.44	0.66
2:G:121:VAL:CG1	2:G:213:LYS:HG3	2.21	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:60:ARG:NH1	2:A:65:PRO:O	2.29	0.66
2:A:167:ASN:HB3	2:A:181:MET:HE1	1.78	0.66
4:L:25:VAL:HG12	4:L:37:ALA:O	1.96	0.66
2:E:204:HIS:ND1	2:E:205:LYS:N	2.43	0.66
3:H:6:GLN:NE2	3:H:111:GLY:CA	2.58	0.66
3:H:69:ALA:O	3:H:82:GLN:N	2.26	0.66
2:A:201:GLU:HG2	2:A:212:VAL:HG13	1.78	0.66
3:B:194:PRO:O	3:B:196:GLU:N	2.30	0.66
2:C:19:VAL:HG11	2:C:81:ILE:HB	1.78	0.66
2:E:55:TYR:CE2	2:E:59:THR:HB	2.30	0.66
4:O:26:ASN:HB2	4:O:76:ASN:ND2	2.10	0.66
3:B:40:ALA:HB1	3:B:41:PRO:CD	2.25	0.65
2:C:43:GLN:HG2	2:C:44:GLN:N	2.10	0.65
2:C:141:PHE:HE1	2:C:182:SER:HG	1.43	0.65
3:D:193:TRP:CG	3:D:194:PRO:CA	2.78	0.65
2:A:114:ARG:HD3	2:A:177:SER:O	1.96	0.65
3:F:50:TRP:NE1	3:F:59:THR:HB	2.11	0.65
2:A:52:VAL:HG13	2:A:52:VAL:O	1.94	0.65
2:E:68:PHE:HE1	2:E:81:ILE:HD11	1.62	0.65
2:E:102:LEU:O	2:E:103:THR:CG2	2.44	0.65
2:A:129:GLU:O	2:A:130:GLN:C	2.39	0.65
3:B:153:GLU:CB	3:B:154:PRO:HA	2.24	0.65
2:C:55:TYR:O	2:C:59:THR:CB	2.44	0.65
2:C:173:ASP:OD1	2:C:175:LYS:HD3	1.96	0.65
2:E:153:LYS:CB	2:E:153:LYS:CD	2.70	0.65
2:G:23:CYS:C	2:G:24:LYS:HD3	2.21	0.65
3:H:214:LYS:C	3:H:215:ILE:HG13	2.21	0.65
3:B:6:GLN:NE2	3:B:109:GLY:HA3	2.09	0.65
3:B:196:GLU:HA	3:B:196:GLU:OE1	1.95	0.65
3:D:186:VAL:O	3:D:186:VAL:HG13	1.96	0.65
1:Q:9:ARG:CZ	1:Q:9:ARG:CB	2.48	0.65
4:N:28:ILE:H	4:N:28:ILE:HD12	1.61	0.65
1:S:30:ILE:O	1:S:30:ILE:HG13	1.95	0.65
2:A:89:GLN:NE2	2:A:172:GLN:CG	2.60	0.65
3:B:73:GLU:C	3:B:75:SER:N	2.53	0.65
2:C:4:MET:HE1	2:C:25:SER:HB3	1.78	0.65
2:C:95:LYS:HB3	2:C:104:PHE:CE2	2.32	0.65
2:C:126:PRO:HG3	2:C:137:SER:C	2.22	0.65
3:D:153:GLU:O	3:D:154:PRO:C	2.37	0.65
2:E:214:SER:OG	2:E:215:PHE:N	2.23	0.65
2:A:34:THR:HG22	2:A:36:LYS:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:19:LYS:HE2	3:D:80:TYR:CD1	2.32	0.65
4:M:25:VAL:HG13	4:M:26:ASN:N	2.12	0.65
2:E:138:VAL:N	2:E:185:LEU:O	2.30	0.65
3:F:57:GLU:N	3:F:57:GLU:OE2	2.30	0.65
2:G:150:ILE:CD1	2:G:151:ASN:N	2.59	0.65
2:C:171:ASP:O	2:C:172:GLN:C	2.39	0.65
1:Q:44:LEU:CD1	1:Q:45:GLY:H	1.99	0.65
2:E:34:THR:CG2	2:E:36:LYS:HB2	2.26	0.65
3:F:27:TYR:CD1	3:F:98:ARG:HD3	2.31	0.65
4:N:79:PHE:N	4:N:79:PHE:HD1	1.95	0.65
3:H:6:GLN:HE22	3:H:111:GLY:HA2	1.59	0.65
3:H:199:THR:HG22	3:H:214:LYS:CA	2.25	0.65
1:P:20:GLN:HE22	3:B:2:ILE:HD13	1.61	0.65
2:A:89:GLN:NE2	2:A:172:GLN:CB	2.60	0.65
3:D:197:THR:HA	3:D:214:LYS:CE	2.27	0.65
1:Q:16:ASN:ND2	1:Q:17:ARG:CG	2.58	0.65
3:H:182:LEU:HD12	3:H:183:SER:CA	2.26	0.65
4:O:54:ALA:O	4:O:55:ALA:C	2.38	0.65
4:L:43:PHE:O	4:L:47:THR:HB	1.96	0.65
1:Q:22:VAL:CB	1:Q:22:VAL:C	2.69	0.65
3:F:126:VAL:HG21	3:F:202:VAL:HG21	1.79	0.65
2:G:56:TRP:HB2	2:G:59:THR:HG1	1.61	0.65
3:H:189:PRO:O	3:H:192:THR:N	2.30	0.65
2:A:6:GLN:HE21	2:A:105:GLY:CA	2.10	0.64
3:D:72:LEU:HD12	3:D:79:ALA:HA	1.77	0.64
3:D:210:LYS:CE	3:D:210:LYS:CG	2.75	0.64
2:G:199:THR:CG2	2:G:214:SER:HA	2.24	0.64
3:B:98:ARG:CG	3:B:98:ARG:NE	2.59	0.64
2:E:68:PHE:HA	2:E:80:THR:O	1.96	0.64
1:S:3:THR:OG1	1:S:4:ASN:N	2.28	0.64
1:P:20:GLN:NE2	3:B:2:ILE:HD13	2.12	0.64
2:A:2:ILE:O	2:A:2:ILE:HG22	1.97	0.64
2:A:6:GLN:NE2	2:A:93:TYR:HA	2.12	0.64
3:D:117:SER:OG	3:D:118:SER:N	2.29	0.64
2:E:68:PHE:CE1	2:E:81:ILE:HD11	2.32	0.64
2:G:55:TYR:CZ	2:G:59:THR:HG21	2.32	0.64
2:G:121:VAL:CG1	2:G:213:LYS:CG	2.76	0.64
3:H:91:THR:O	3:H:91:THR:HG22	1.97	0.64
3:H:164:LEU:HD13	3:H:186:VAL:CG2	2.18	0.64
3:B:146:LEU:HG	3:B:146:LEU:O	1.95	0.64
3:B:168:VAL:HG22	3:B:186:VAL:HG12	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:61:GLU:H	2:C:64:VAL:HG21	1.62	0.64
3:D:41:PRO:O	3:D:43:LYS:NZ	2.30	0.64
3:D:207:SER:C	3:D:209:THR:H	2.03	0.64
4:N:34:ILE:HG22	4:N:35:GLN:N	2.10	0.64
2:G:36:LYS:HD3	2:G:56:TRP:CD1	2.33	0.64
3:H:98:ARG:HB3	3:H:106:ASP:OD2	1.98	0.64
3:B:75:SER:O	3:B:77:SER:N	2.29	0.64
3:B:91:THR:O	3:B:92:ALA:HB2	1.96	0.64
3:F:67:ARG:HD2	3:F:84:ASN:O	1.98	0.64
3:H:160:ASN:O	3:H:162:GLY:N	2.30	0.64
2:A:215:PHE:CD2	2:A:215:PHE:O	2.51	0.64
3:B:141:VAL:HG22	3:B:142:THR:H	1.62	0.64
2:C:77:PHE:N	2:C:77:PHE:CD2	2.64	0.64
2:C:112:LEU:HD13	2:C:113:LYS:O	1.98	0.64
2:C:165:VAL:CG1	2:C:165:VAL:CG2	2.73	0.64
2:C:187:LEU:CD1	2:C:187:LEU:CB	2.74	0.64
3:D:23:LYS:CG	3:D:23:LYS:CA	2.74	0.64
2:E:92:TYR:CD1	2:E:92:TYR:N	2.66	0.64
2:E:175:LYS:HG3	2:E:175:LYS:O	1.97	0.64
2:A:36:LYS:HD2	2:A:56:TRP:CG	2.32	0.64
2:A:144:ASN:H	3:B:169:HIS:HE1	1.44	0.64
3:D:180:TYR:O	3:D:181:THR:CG2	2.45	0.64
2:E:41:TRP:CG	2:E:41:TRP:CA	2.76	0.64
3:F:93:THR:OG1	3:F:113:THR:HG22	1.98	0.64
4:O:25:VAL:CG2	4:O:77:ILE:HG13	2.28	0.64
2:A:6:GLN:HB3	2:A:22:SER:O	1.97	0.64
2:A:96:GLN:CB	2:A:96:GLN:CD	2.68	0.64
2:A:218:ASN:N	2:A:218:ASN:OD1	2.28	0.64
1:Q:44:LEU:HD22	1:Q:45:GLY:N	2.13	0.64
2:E:7:SER:CA	2:E:8:PRO:O	2.45	0.64
3:H:216:VAL:HG23	3:H:217:PRO:HD2	1.79	0.64
3:B:73:GLU:OE1	3:B:73:GLU:CA	2.45	0.64
3:D:36:TRP:C	3:D:37:VAL:HG23	2.23	0.64
3:D:151:PHE:CB	3:D:152:PRO:HD3	2.28	0.64
1:Q:9:ARG:HB2	1:Q:9:ARG:NH1	2.13	0.64
4:L:56:LEU:C	4:L:58:ALA:H	2.05	0.64
2:C:69:THR:O	2:C:80:THR:HG22	1.98	0.64
3:D:91:THR:HG23	3:D:115:THR:HA	1.79	0.64
3:F:67:ARG:HH11	3:F:67:ARG:CG	2.10	0.64
3:F:142:THR:OG1	3:F:187:THR:HG23	1.97	0.64
3:F:189:PRO:O	3:F:192:THR:OG1	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:199:THR:HG22	3:F:214:LYS:CB	2.28	0.64
3:B:112:THR:HG22	3:B:114:VAL:H	1.62	0.63
4:N:58:ALA:C	4:N:60:VAL:H	2.06	0.63
3:H:1:GLN:HG2	3:H:2:ILE:H	1.62	0.63
4:O:25:VAL:HG23	4:O:75:MET:O	1.98	0.63
4:L:43:PHE:O	4:L:44:GLU:C	2.42	0.63
4:M:65:THR:CG2	4:M:65:THR:CA	2.75	0.63
2:E:60:ARG:HG2	2:E:61:GLU:N	2.11	0.63
4:N:55:ALA:O	4:N:58:ALA:CB	2.34	0.63
3:B:144:GLY:O	3:B:215:ILE:HD11	1.99	0.63
4:M:27:LEU:HD12	4:M:35:GLN:CB	2.29	0.63
4:M:75:MET:HE3	4:M:77:ILE:CD1	2.24	0.63
2:E:45:LYS:O	2:E:46:PRO:C	2.36	0.63
1:S:13:ARG:HB2	1:S:13:ARG:CZ	2.29	0.63
2:G:77:PHE:C	2:G:78:THR:CG2	2.70	0.63
2:G:77:PHE:C	2:G:78:THR:HG23	2.22	0.63
2:G:208:THR:O	2:G:210:PRO:HD3	1.98	0.63
3:H:126:VAL:O	3:H:127:TYR:CD1	2.52	0.63
2:A:204:HIS:ND1	2:A:206:THR:HG23	2.12	0.63
2:C:81:ILE:CG2	2:C:84:VAL:HG12	2.26	0.63
3:D:214:LYS:HD3	3:D:215:ILE:O	1.98	0.63
4:M:75:MET:CE	4:M:77:ILE:HD11	2.24	0.63
4:N:33:LYS:CE	4:N:33:LYS:CG	2.75	0.63
2:G:59:THR:HG22	2:G:59:THR:O	1.98	0.63
2:G:127:SER:C	2:G:129:GLU:H	2.04	0.63
2:C:12:ALA:N	4:M:36:THR:O	2.31	0.63
2:C:152:VAL:HG12	2:C:153:LYS:N	2.13	0.63
3:D:97:ALA:HB2	3:D:108:TRP:HA	1.79	0.63
2:G:68:PHE:CD1	2:G:81:ILE:HD12	2.34	0.63
2:C:32:SER:C	2:C:34:THR:H	2.05	0.63
1:Q:12:LYS:CE	1:Q:12:LYS:CG	2.75	0.63
4:M:39:PHE:O	4:M:40:LYS:O	2.17	0.63
2:E:85:GLN:C	2:E:87:GLU:H	2.06	0.63
3:F:182:LEU:HD23	3:F:183:SER:CA	2.29	0.63
2:G:152:VAL:HG22	2:G:203:THR:H	1.64	0.63
2:A:141:PHE:CE2	3:B:185:SER:CB	2.79	0.63
2:A:216:ASN:HB2	2:A:219:GLU:OE2	1.98	0.63
3:B:120:LYS:CD	3:B:120:LYS:N	2.51	0.63
3:B:209:THR:CG2	3:B:210:LYS:H	2.05	0.63
4:L:77:ILE:H	4:L:77:ILE:CD1	2.11	0.63
1:S:29:GLN:HB3	3:H:33:SER:OG	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:141:PHE:C	2:A:142:LEU:HD23	2.23	0.63
3:B:1:GLN:HG3	3:B:2:ILE:H	1.64	0.63
2:E:7:SER:C	2:E:8:PRO:O	2.33	0.63
2:E:31:ASN:CB	2:E:34:THR:HB	2.28	0.63
3:F:129:LEU:HB2	3:F:144:GLY:C	2.23	0.63
1:S:23:LYS:CD	1:S:24:PHE:HB2	2.28	0.63
2:G:81:ILE:HG21	2:G:84:VAL:HG12	1.80	0.63
2:A:72:GLY:HA3	2:A:77:PHE:CD1	2.33	0.63
2:C:55:TYR:O	2:C:59:THR:OG1	2.16	0.63
2:E:88:ASP:O	2:E:90:ALA:N	2.32	0.63
2:E:96:GLN:NE2	2:E:98:TYR:H	1.96	0.63
2:E:143:ASN:HA	2:E:180:SER:HB3	1.79	0.63
3:F:129:LEU:HD12	3:F:144:GLY:C	2.24	0.63
3:H:9:PRO:HG2	3:H:205:PRO:HB2	1.80	0.63
3:H:60:TYR:HH	3:H:69:ALA:HA	1.63	0.63
2:C:155:LYS:NZ	2:C:158:GLY:O	2.27	0.62
2:E:71:ARG:CG	2:E:71:ARG:CA	2.75	0.62
2:E:165:VAL:HG13	5:E:225:HOH:O	1.98	0.62
2:E:175:LYS:O	2:E:176:ASP:HB3	1.98	0.62
2:G:93:TYR:CZ	3:H:45:LEU:CD2	2.82	0.62
3:H:40:ALA:O	3:H:43:LYS:HB2	1.98	0.62
3:H:173:ALA:HB1	3:H:180:TYR:CD1	2.34	0.62
3:H:214:LYS:HG2	3:H:215:ILE:N	2.13	0.62
4:O:55:ALA:O	4:O:56:LEU:C	2.37	0.62
2:A:54:ILE:HD12	2:A:70:GLY:N	2.14	0.62
1:Q:37:LEU:H	1:Q:38:PRO:HD2	1.64	0.62
3:F:148:LYS:HZ2	3:F:149:GLY:N	1.97	0.62
1:S:11:THR:CG2	1:S:12:LYS:NZ	2.61	0.62
4:O:21:VAL:HG12	4:O:22:THR:N	2.13	0.62
4:O:32:GLY:C	4:O:33:LYS:CG	2.72	0.62
1:P:38:PRO:HG2	3:F:32:PHE:CE1	2.34	0.62
3:B:65:LYS:HZ3	3:B:65:LYS:CA	2.12	0.62
2:C:63:GLY:N	1:Q:11:THR:O	2.33	0.62
3:D:97:ALA:CB	3:D:108:TRP:HA	2.29	0.62
3:F:6:GLN:HG2	3:F:22:CYS:HA	1.81	0.62
2:G:89:GLN:CD	2:G:89:GLN:C	2.64	0.62
2:G:128:SER:O	2:G:129:GLU:C	2.39	0.62
3:H:207:SER:O	3:H:208:SER:HB2	1.99	0.62
2:A:155:LYS:NZ	2:A:201:GLU:OE1	2.25	0.62
2:A:187:LEU:HD23	2:A:187:LEU:N	2.13	0.62
2:A:190:ASP:C	2:A:192:TYR:N	2.57	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:31:ASP:O	3:B:32:PHE:CD1	2.52	0.62
4:M:79:PHE:N	4:M:79:PHE:HD1	1.95	0.62
2:E:143:ASN:O	2:E:144:ASN:O	2.16	0.62
2:G:21:MET:CB	2:G:21:MET:SD	2.87	0.62
2:C:1:ASP:N	2:C:27:GLN:HE22	1.98	0.62
3:F:13:LYS:O	3:F:16:GLU:HB2	1.99	0.62
3:F:23:LYS:HG3	3:F:78:THR:OG1	2.00	0.62
3:F:71:SER:O	3:F:72:LEU:HD23	2.00	0.62
4:N:62:GLY:CA	4:N:80:ALA:H	2.13	0.62
3:H:129:LEU:HG	3:H:145:CYS:N	2.15	0.62
1:S:23:LYS:C	1:S:23:LYS:HD3	2.25	0.62
3:H:73:GLU:HG3	3:H:73:GLU:O	2.00	0.62
4:L:44:GLU:O	4:L:48:ALA:N	2.26	0.62
2:E:145:PHE:O	2:E:179:TYR:N	2.31	0.62
3:F:67:ARG:HH11	3:F:67:ARG:HB2	1.65	0.62
3:B:6:GLN:HE22	3:B:111:GLY:N	1.94	0.62
3:D:81:LEU:CD1	3:D:81:LEU:CD2	2.71	0.62
3:D:175:LEU:CD2	3:D:175:LEU:CB	2.74	0.62
3:D:188:VAL:CB	3:D:189:PRO:CD	2.77	0.62
3:F:98:ARG:HB3	3:F:107:VAL:CG1	2.30	0.62
3:B:54:GLU:C	3:B:56:GLY:N	2.52	0.62
3:B:120:LYS:O	3:B:120:LYS:HG2	1.99	0.62
2:C:54:ILE:HA	2:C:59:THR:O	2.00	0.62
2:C:60:ARG:HD2	2:C:64:VAL:HB	1.80	0.62
4:M:49:GLU:HG3	4:M:52:ARG:HD3	1.80	0.62
3:F:11:LEU:C	3:F:11:LEU:HD22	2.25	0.62
3:F:175:LEU:HB2	3:F:180:TYR:CE1	2.35	0.62
2:G:21:MET:CG	2:G:21:MET:CA	2.77	0.62
3:H:72:LEU:HD23	3:H:74:THR:H	1.64	0.62
3:H:153:GLU:OE2	3:H:173:ALA:HB2	1.99	0.62
2:A:190:ASP:O	2:A:193:GLU:N	2.32	0.61
4:L:21:VAL:CG1	4:L:22:THR:N	2.63	0.61
2:E:191:GLU:HG2	2:E:194:ARG:NH1	2.14	0.61
4:O:30:ALA:H	4:O:61:ASN:ND2	1.97	0.61
4:L:68:LEU:HB3	4:L:72:GLY:HA2	1.82	0.61
2:C:62:SER:C	1:Q:11:THR:O	2.43	0.61
2:E:130:GLN:HG3	3:F:127:TYR:CE2	2.36	0.61
3:F:168:VAL:HG12	3:F:169:HIS:N	2.15	0.61
1:S:29:GLN:O	1:S:30:ILE:CB	2.48	0.61
2:G:124:PHE:HE1	2:G:141:PHE:HD2	1.47	0.61
2:G:142:LEU:HD12	2:G:181:MET:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:45:LEU:H	3:H:45:LEU:CD2	2.07	0.61
2:C:55:TYR:O	2:C:59:THR:HB	2.01	0.61
2:C:204:HIS:CG	2:C:206:THR:HG23	2.35	0.61
3:D:13:LYS:HB2	3:D:16:GLU:OE1	2.00	0.61
3:F:171:PHE:HD1	3:F:171:PHE:N	1.91	0.61
3:F:214:LYS:O	3:F:216:VAL:HG23	2.00	0.61
2:G:98:TYR:CD2	2:G:99:ILE:CG1	2.83	0.61
2:G:194:ARG:C	2:G:194:ARG:NE	2.58	0.61
3:H:18:VAL:CG1	3:H:86:LEU:HD21	2.30	0.61
3:H:149:GLY:O	3:H:150:TYR:O	2.17	0.61
3:D:20:ILE:CD1	3:D:81:LEU:HB3	2.30	0.61
2:E:7:SER:HA	2:E:8:PRO:C	2.20	0.61
2:E:41:TRP:CE2	2:E:79:LEU:HB2	2.35	0.61
3:F:41:PRO:O	3:F:42:GLY:C	2.43	0.61
2:G:167:ASN:CA	2:G:183:SER:HA	2.30	0.61
4:O:53:TYR:O	4:O:57:HIS:CE1	2.53	0.61
2:C:8:PRO:HG2	2:C:108:THR:HG23	1.81	0.61
2:C:37:ASN:HB2	2:C:57:ALA:HB2	1.81	0.61
3:D:40:ALA:O	3:D:43:LYS:HB2	2.01	0.61
2:E:170:THR:OG1	2:E:171:ASP:N	2.33	0.61
3:F:148:LYS:HD2	3:F:181:THR:HG21	1.81	0.61
3:F:156:THR:CB	3:F:156:THR:N	2.55	0.61
3:H:69:ALA:O	3:H:81:LEU:HA	2.01	0.61
3:H:150:TYR:CE2	3:H:180:TYR:HB3	2.35	0.61
4:M:58:ALA:O	4:M:61:ASN:N	2.34	0.61
3:F:176:GLN:HA	3:F:176:GLN:HE21	1.65	0.61
1:S:13:ARG:O	1:S:14:ASN:OD1	2.18	0.61
2:G:182:SER:CB	3:H:171:PHE:CE2	2.74	0.61
3:H:153:GLU:O	3:H:155:VAL:HG23	2.00	0.61
2:A:2:ILE:O	2:A:4:MET:HG2	2.01	0.61
4:M:26:ASN:CG	4:M:36:THR:HG23	2.25	0.61
2:E:156:ILE:O	2:E:157:ASP:C	2.42	0.61
4:N:24:LYS:HE3	4:N:38:GLU:OE1	2.01	0.61
3:H:132:GLY:O	3:H:135:ALA:HB3	1.99	0.61
3:H:164:LEU:HA	3:H:164:LEU:HD23	1.81	0.61
4:L:30:ALA:HB2	4:L:79:PHE:O	2.01	0.61
2:C:121:VAL:HG13	2:C:142:LEU:HD23	1.81	0.61
2:G:13:VAL:HG23	2:G:14:SER:N	2.16	0.61
3:H:30:THR:HA	3:H:53:THR:HB	1.82	0.61
3:H:164:LEU:CD1	3:H:186:VAL:HG21	2.20	0.61
4:O:61:ASN:HD22	4:O:79:PHE:HD2	1.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:7:PRO:HB2	1:Q:9:ARG:NH2	2.13	0.61
2:E:123:ILE:C	2:E:124:PHE:CD1	2.79	0.61
2:E:124:PHE:CD1	2:E:124:PHE:N	2.66	0.61
2:E:176:ASP:C	2:E:177:SER:OG	2.42	0.61
3:F:140:MET:CE	3:F:140:MET:CG	2.79	0.61
3:F:158:THR:HG23	3:F:201:ASN:HB2	1.81	0.61
4:N:77:ILE:HG22	4:N:79:PHE:CZ	2.35	0.61
2:G:98:TYR:O	2:G:99:ILE:HG13	2.01	0.61
3:H:37:VAL:HA	3:H:48:MET:H	1.65	0.61
3:H:160:ASN:O	3:H:161:SER:C	2.42	0.61
2:C:112:LEU:HD13	2:C:113:LYS:N	2.16	0.61
3:D:52:ASN:C	3:D:54:GLU:N	2.57	0.61
3:D:81:LEU:CD1	3:D:81:LEU:CB	2.76	0.61
3:D:98:ARG:NH1	3:D:106:ASP:OD1	2.32	0.61
3:D:129:LEU:HB2	3:D:144:GLY:CA	2.31	0.61
3:D:132:GLY:O	3:D:134:ALA:N	2.34	0.61
2:G:112:LEU:HD23	2:G:177:SER:OG	2.00	0.61
3:H:38:ASN:N	3:H:48:MET:CG	2.57	0.61
2:A:189:LYS:O	2:A:193:GLU:N	2.30	0.60
3:B:36:TRP:HA	3:B:95:PHE:O	2.01	0.60
2:C:14:SER:HA	2:C:113:LYS:CB	2.29	0.60
2:C:182:SER:HB2	3:D:171:PHE:CD2	2.36	0.60
3:D:156:THR:CG2	3:D:203:ALA:HB3	2.31	0.60
4:M:34:ILE:HD13	4:M:34:ILE:C	2.26	0.60
4:N:51:TYR:OH	4:O:51:TYR:OH	2.07	0.60
1:S:16:ASN:N	1:S:16:ASN:ND2	2.45	0.60
2:G:166:LEU:HD21	3:H:176:GLN:OE1	2.01	0.60
3:H:160:ASN:C	3:H:162:GLY:N	2.59	0.60
4:O:64:TRP:CE3	4:O:66:ALA:CB	2.83	0.60
3:D:93:THR:O	3:D:94:TYR:CB	2.49	0.60
2:E:131:LEU:C	2:E:133:SER:H	2.09	0.60
4:N:60:VAL:O	4:N:60:VAL:HG22	2.01	0.60
1:S:31:VAL:HA	3:H:99:PHE:CE1	2.35	0.60
2:G:6:GLN:NE2	2:G:108:THR:N	2.50	0.60
3:H:175:LEU:HD13	3:H:180:TYR:CE2	2.36	0.60
2:A:60:ARG:NH1	2:A:66:ASP:C	2.59	0.60
4:L:53:TYR:CZ	4:L:57:HIS:CE1	2.90	0.60
2:C:121:VAL:HG12	2:C:122:SER:N	2.16	0.60
2:E:68:PHE:CE1	2:E:81:ILE:CD1	2.84	0.60
2:E:204:HIS:CE1	2:E:206:THR:HG23	2.37	0.60
3:F:93:THR:C	3:F:94:TYR:CD2	2.79	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:152:VAL:HG13	2:G:201:GLU:C	2.26	0.60
3:B:149:GLY:CA	3:B:179:LEU:HD22	2.31	0.60
2:C:10:SER:OG	4:M:38:GLU:HB2	2.01	0.60
2:C:18:LYS:O	4:M:35:GLN:OE1	2.19	0.60
2:E:67:ARG:HH12	2:E:88:ASP:CG	2.09	0.60
4:N:35:GLN:C	4:N:36:THR:OG1	2.37	0.60
1:S:23:LYS:HD2	1:S:24:PHE:HB2	1.81	0.60
2:G:102:LEU:CD2	3:H:105:PHE:CZ	2.84	0.60
4:O:34:ILE:C	4:O:35:GLN:CG	2.72	0.60
1:P:31:VAL:C	1:P:33:GLY:H	2.09	0.60
2:A:114:ARG:HE	2:A:146:TYR:CB	2.14	0.60
3:B:167:GLY:O	3:B:186:VAL:HA	2.00	0.60
3:D:152:PRO:C	3:D:154:PRO:CD	2.68	0.60
2:G:52:VAL:C	2:G:53:LEU:HD12	2.26	0.60
2:G:196:ASN:HD22	2:G:217:ARG:H	1.46	0.60
3:H:129:LEU:HG	3:H:144:GLY:C	2.26	0.60
4:O:58:ALA:CB	4:O:58:ALA:C	2.70	0.60
3:B:116:VAL:O	3:B:116:VAL:CG1	2.49	0.60
3:D:141:VAL:HG22	3:D:142:THR:H	1.66	0.60
2:E:145:PHE:CD1	2:E:145:PHE:C	2.79	0.60
2:E:190:ASP:HA	2:E:193:GLU:HB2	1.83	0.60
3:F:143:LEU:HD22	3:F:215:ILE:HG21	1.83	0.60
4:O:25:VAL:O	4:O:25:VAL:CG1	2.50	0.60
2:C:199:THR:HB	2:C:214:SER:CB	2.32	0.60
3:D:7:SER:O	3:D:8:GLY:O	2.19	0.60
3:D:189:PRO:CB	3:D:192:THR:HG23	2.31	0.60
4:M:57:HIS:O	4:M:58:ALA:O	2.20	0.60
4:N:66:ALA:CB	4:O:68:LEU:HD23	2.30	0.60
4:O:30:ALA:H	4:O:61:ASN:HD21	1.48	0.60
2:C:18:LYS:CG	2:C:18:LYS:CE	2.73	0.60
2:E:31:ASN:CG	2:E:34:THR:HB	2.26	0.60
2:G:194:ARG:O	2:G:194:ARG:CD	2.50	0.60
3:H:148:LYS:CB	3:H:181:THR:HB	2.24	0.60
4:O:31:ASP:OD1	4:O:33:LYS:HD3	2.02	0.60
3:B:36:TRP:HE3	3:B:95:PHE:O	1.84	0.60
3:B:159:TRP:CZ3	3:B:200:CYS:HB3	2.37	0.60
2:E:188:THR:CG2	2:E:191:GLU:HB2	2.28	0.60
2:G:166:LEU:CD1	2:G:166:LEU:HG	2.20	0.60
3:H:17:THR:HA	3:H:86:LEU:CD1	2.32	0.60
3:H:86:LEU:CD1	3:H:86:LEU:CD2	2.75	0.60
3:H:169:HIS:HB3	3:H:171:PHE:CE1	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:209:THR:O	3:H:210:LYS:CB	2.47	0.60
4:O:27:LEU:HB2	4:O:35:GLN:CB	2.29	0.60
1:P:29:GLN:O	1:P:30:ILE:HB	2.00	0.60
2:C:1:ASP:H3	2:C:27:GLN:NE2	1.98	0.60
2:C:144:ASN:ND2	2:C:144:ASN:N	2.45	0.60
2:E:50:PRO:HB2	3:F:108:TRP:CZ2	2.37	0.60
2:G:98:TYR:C	2:G:99:ILE:HG13	2.27	0.60
3:H:103:GLN:CD	3:H:103:GLN:N	2.60	0.60
3:H:199:THR:CG2	3:H:214:LYS:HA	2.30	0.60
3:D:15:GLY:O	3:D:16:GLU:O	2.20	0.59
3:F:13:LYS:O	3:F:14:PRO:O	2.19	0.59
2:A:166:LEU:O	2:A:183:SER:HA	2.02	0.59
3:B:129:LEU:CB	3:B:144:GLY:HA3	2.18	0.59
2:C:152:VAL:CG1	2:C:153:LYS:H	2.15	0.59
2:C:157:ASP:OD2	2:C:196:ASN:N	2.35	0.59
3:D:111:GLY:C	3:D:112:THR:OG1	2.43	0.59
1:Q:25:PRO:HG3	1:Q:39:ARG:HD3	1.83	0.59
4:M:60:VAL:HG13	4:M:61:ASN:ND2	2.16	0.59
2:E:56:TRP:O	2:E:57:ALA:HB3	2.00	0.59
4:N:53:TYR:CE2	4:N:57:HIS:ND1	2.69	0.59
3:H:36:TRP:C	3:H:37:VAL:HG23	2.26	0.59
3:B:204:HIS:C	3:B:204:HIS:CD2	2.80	0.59
2:C:31:ASN:HB2	2:C:98:TYR:HE1	1.65	0.59
2:C:86:ALA:C	2:C:88:ASP:H	2.10	0.59
3:D:182:LEU:O	3:D:182:LEU:CG	2.33	0.59
2:E:156:ILE:O	2:E:159:SER:N	2.36	0.59
2:A:8:PRO:HB3	4:L:39:PHE:HE2	1.61	0.59
2:A:36:LYS:HB3	2:A:56:TRP:CD1	2.37	0.59
4:L:42:THR:O	4:L:43:PHE:C	2.45	0.59
2:C:112:LEU:HD13	2:C:113:LYS:H	1.67	0.59
3:D:146:LEU:HD12	3:D:146:LEU:C	2.27	0.59
2:E:10:SER:O	4:N:37:ALA:HA	2.02	0.59
4:N:77:ILE:O	4:N:79:PHE:HE1	1.85	0.59
2:G:79:LEU:HD12	2:G:80:THR:N	2.17	0.59
2:A:95:LYS:HB3	2:A:95:LYS:NZ	2.17	0.59
2:A:171:ASP:O	2:A:172:GLN:C	2.34	0.59
2:A:204:HIS:CG	2:A:205:LYS:N	2.65	0.59
2:C:43:GLN:N	2:C:51:LYS:O	2.33	0.59
3:D:1:GLN:NE2	1:Q:13:ARG:HD2	2.17	0.59
1:Q:32:GLY:O	1:Q:36:LEU:HB3	2.02	0.59
2:E:39:LEU:C	2:E:39:LEU:HD22	2.27	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:176:ASP:CG	2:E:178:THR:HG23	2.28	0.59
3:F:6:GLN:OE1	3:F:20:ILE:HD11	2.03	0.59
4:N:42:THR:O	4:N:43:PHE:C	2.46	0.59
2:G:29:LEU:HD23	2:G:29:LEU:C	2.26	0.59
2:G:196:ASN:ND2	2:G:216:ASN:C	2.60	0.59
3:H:141:VAL:HG13	3:H:141:VAL:O	2.03	0.59
3:H:216:VAL:CG2	3:H:217:PRO:HD2	2.32	0.59
2:A:105:GLY:O	2:A:106:ALA:C	2.32	0.59
3:D:175:LEU:HD13	3:D:180:TYR:CZ	2.37	0.59
3:F:75:SER:C	3:F:77:SER:H	2.11	0.59
4:N:69:GLU:C	4:N:71:GLY:H	2.11	0.59
3:H:132:GLY:O	3:H:133:SER:C	2.45	0.59
2:A:188:THR:OG1	2:A:191:GLU:HB2	2.03	0.59
4:L:68:LEU:H	4:L:68:LEU:HD12	1.66	0.59
2:C:122:SER:OG	2:C:141:PHE:HB2	2.03	0.59
3:D:175:LEU:CD2	3:D:175:LEU:CD1	2.76	0.59
2:E:31:ASN:ND2	2:E:33:ARG:N	2.51	0.59
2:E:172:GLN:HG2	2:E:177:SER:HA	1.85	0.59
1:S:17:ARG:O	1:S:17:ARG:HG2	2.02	0.59
2:G:152:VAL:CG2	2:G:202:ALA:HA	2.33	0.59
2:G:169:TRP:N	2:G:169:TRP:CD2	2.71	0.59
3:H:125:SER:HB3	3:H:127:TYR:CZ	2.38	0.59
3:H:191:SER:O	3:H:195:SER:HB2	2.02	0.59
3:B:218:ARG:C	3:B:218:ARG:CB	2.69	0.59
2:E:128:SER:OG	2:E:129:GLU:OE2	2.19	0.59
2:G:36:LYS:HD3	2:G:56:TRP:CG	2.38	0.59
2:G:52:VAL:CG2	2:G:53:LEU:N	2.65	0.59
2:G:165:VAL:O	2:G:165:VAL:HG13	2.03	0.59
3:H:161:SER:H	3:H:201:ASN:HD21	1.50	0.59
3:H:216:VAL:CB	3:H:216:VAL:C	2.73	0.59
2:A:45:LYS:HB3	2:A:46:PRO:CD	2.29	0.59
2:A:114:ARG:HE	2:A:146:TYR:HB3	1.66	0.59
3:B:129:LEU:HD12	3:B:129:LEU:N	2.17	0.59
2:C:155:LYS:HD3	2:C:158:GLY:O	2.03	0.59
2:C:176:ASP:C	2:C:178:THR:N	2.59	0.59
2:E:109:LYS:HG2	2:E:110:LEU:N	2.16	0.59
2:E:128:SER:C	2:E:130:GLN:N	2.58	0.59
3:H:159:TRP:HB2	3:H:164:LEU:HB2	1.84	0.59
4:O:57:HIS:C	4:O:60:VAL:HG12	2.27	0.59
2:A:19:VAL:HG11	2:A:81:ILE:HD12	1.84	0.58
2:G:112:LEU:CD2	2:G:112:LEU:HG	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:155:LYS:CE	2:G:201:GLU:OE1	2.47	0.58
2:G:175:LYS:CD	2:G:175:LYS:CB	2.78	0.58
3:H:176:GLN:C	3:H:178:ASP:H	2.10	0.58
2:A:11:LEU:HD23	4:L:37:ALA:HB2	1.83	0.58
4:L:62:GLY:HA3	4:L:81:GLY:CA	2.34	0.58
2:C:42:TYR:HE1	2:C:95:LYS:HG2	1.68	0.58
3:D:170:THR:O	3:D:170:THR:HG22	2.03	0.58
4:M:27:LEU:HB2	4:M:35:GLN:HB2	1.85	0.58
4:M:58:ALA:O	4:M:60:VAL:N	2.36	0.58
2:E:156:ILE:C	2:E:158:GLY:N	2.61	0.58
3:H:168:VAL:CG1	3:H:169:HIS:H	2.16	0.58
4:O:70:ASP:HB2	4:O:74:HIS:H	1.68	0.58
4:O:78:LYS:C	4:O:79:PHE:HD1	2.11	0.58
1:P:38:PRO:HB2	3:F:31:ASP:O	2.02	0.58
3:B:17:THR:CG2	3:B:83:ILE:O	2.39	0.58
3:B:136:GLN:NE2	3:B:136:GLN:H	2.00	0.58
3:D:83:ILE:HG22	3:D:86:LEU:CD2	2.33	0.58
2:A:10:SER:O	2:A:11:LEU:CG	2.51	0.58
3:B:11:LEU:C	3:B:11:LEU:CD1	2.76	0.58
3:B:28:THR:O	3:B:30:THR:N	2.35	0.58
3:B:106:ASP:OD2	3:B:107:VAL:HG12	2.04	0.58
4:M:57:HIS:O	4:M:60:VAL:HG12	2.03	0.58
2:E:140:CYS:C	2:E:141:PHE:HD2	2.11	0.58
1:S:13:ARG:C	2:G:62:SER:CB	2.69	0.58
2:G:61:GLU:OE2	2:G:62:SER:N	2.37	0.58
2:G:153:LYS:CD	2:G:153:LYS:CB	2.76	0.58
3:H:20:ILE:HD11	3:H:80:TYR:HA	1.85	0.58
2:A:125:PRO:HD2	3:B:218:ARG:NH2	2.17	0.58
3:B:40:ALA:HB1	3:B:41:PRO:HD3	1.85	0.58
2:C:37:ASN:ND2	2:C:73:SER:HA	2.18	0.58
2:C:55:TYR:C	2:C:57:ALA:N	2.57	0.58
3:D:18:VAL:HG11	3:D:114:VAL:CG2	2.25	0.58
2:G:93:TYR:CE2	3:H:45:LEU:HD23	2.39	0.58
3:H:182:LEU:CD1	3:H:183:SER:N	2.62	0.58
3:H:202:VAL:HG22	3:H:211:VAL:O	2.04	0.58
4:O:68:LEU:HB3	4:O:75:MET:HG3	1.85	0.58
2:A:118:ALA:CB	2:A:118:ALA:N	2.63	0.58
2:A:196:ASN:C	2:A:196:ASN:OD1	2.47	0.58
3:B:6:GLN:OE1	3:B:111:GLY:HA2	2.02	0.58
3:B:65:LYS:NZ	3:B:65:LYS:CA	2.63	0.58
2:C:62:SER:HA	1:Q:11:THR:O	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:24:LYS:HD2	2:E:76:ASP:HA	1.84	0.58
2:G:93:TYR:CE1	3:H:45:LEU:CD2	2.87	0.58
2:G:172:GLN:CG	2:G:179:TYR:CE2	2.85	0.58
2:A:176:ASP:CG	2:A:178:THR:CG2	2.74	0.58
4:L:54:ALA:O	4:L:56:LEU:N	2.37	0.58
2:C:82:SER:O	2:C:83:SER:CB	2.43	0.58
3:D:52:ASN:C	3:D:54:GLU:H	2.12	0.58
4:M:25:VAL:HG23	4:M:75:MET:HG2	1.85	0.58
3:F:19:LYS:CG	3:F:19:LYS:CE	2.74	0.58
3:F:73:GLU:O	3:F:74:THR:C	2.44	0.58
3:F:213:LYS:NZ	5:F:220:HOH:O	2.36	0.58
4:N:42:THR:O	4:N:42:THR:HG23	2.04	0.58
4:N:49:GLU:OE1	4:N:49:GLU:C	2.46	0.58
2:G:177:SER:C	2:G:178:THR:HG23	2.29	0.58
4:O:53:TYR:HD1	4:O:56:LEU:HD23	1.66	0.58
2:A:162:GLN:CG	2:A:162:GLN:NE2	2.61	0.58
2:A:194:ARG:CG	2:A:195:HIS:H	2.11	0.58
4:L:24:LYS:O	4:L:74:HIS:HA	2.04	0.58
3:D:23:LYS:HA	3:D:78:THR:HA	1.85	0.58
3:D:70:PHE:HE2	3:D:81:LEU:HD12	1.69	0.58
3:F:73:GLU:O	3:F:75:SER:N	2.36	0.58
3:F:94:TYR:N	3:F:94:TYR:HD2	2.01	0.58
3:F:99:PHE:HD2	3:F:105:PHE:CD1	2.22	0.58
3:B:150:TYR:N	3:B:179:LEU:HD23	2.19	0.58
4:L:31:ASP:C	4:L:31:ASP:OD1	2.47	0.58
2:C:166:LEU:CD2	3:D:174:VAL:HG11	2.34	0.58
3:F:174:VAL:O	3:F:180:TYR:HD1	1.87	0.58
3:F:199:THR:HG22	3:F:214:LYS:HB2	1.85	0.58
2:G:189:LYS:HG3	2:G:190:ASP:N	2.16	0.58
2:A:13:VAL:HG21	2:A:84:VAL:HG21	1.86	0.58
2:A:218:ASN:C	2:A:219:GLU:HG3	2.26	0.58
4:L:57:HIS:HB3	4:L:61:ASN:ND2	2.07	0.58
2:C:62:SER:CB	1:Q:11:THR:O	2.51	0.58
2:E:42:TYR:HA	2:E:51:LYS:O	2.04	0.58
2:G:156:ILE:CG2	2:G:156:ILE:CA	2.75	0.58
2:A:121:VAL:HG13	2:A:140:CYS:SG	2.44	0.57
3:D:22:CYS:O	3:D:79:ALA:N	2.36	0.57
3:D:152:PRO:O	3:D:154:PRO:N	2.37	0.57
3:D:165:SER:O	3:D:168:VAL:CG2	2.51	0.57
2:E:49:SER:O	2:E:50:PRO:C	2.46	0.57
2:G:65:PRO:HB2	2:G:67:ARG:HG2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:189:PRO:CD	3:H:192:THR:OG1	2.46	0.57
4:O:75:MET:O	4:O:77:ILE:HG13	2.04	0.57
2:C:29:LEU:HD12	2:C:39:LEU:HB2	1.84	0.57
3:D:176:GLN:OE1	3:D:176:GLN:O	2.22	0.57
1:Q:22:VAL:CA	1:Q:22:VAL:HB	2.17	0.57
2:E:127:SER:O	2:E:128:SER:C	2.45	0.57
3:F:56:GLY:O	3:F:58:PRO:HD3	2.04	0.57
4:N:68:LEU:CA	4:N:69:GLU:N	2.62	0.57
3:D:118:SER:C	3:D:119:ALA:O	2.39	0.57
2:G:19:VAL:HG22	2:G:21:MET:HE2	1.85	0.57
3:H:19:LYS:CG	3:H:19:LYS:CA	2.77	0.57
3:B:31:ASP:O	2:E:33:ARG:CZ	2.53	0.57
2:C:30:LEU:CD1	2:C:30:LEU:HG	2.18	0.57
4:M:28:ILE:CD1	4:M:28:ILE:CB	2.78	0.57
2:E:125:PRO:HG3	2:E:215:PHE:CZ	2.39	0.57
3:F:78:THR:HG22	3:F:79:ALA:N	2.19	0.57
2:G:50:PRO:HD2	3:H:108:TRP:CD2	2.40	0.57
2:G:130:GLN:O	2:G:133:SER:CB	2.50	0.57
3:H:114:VAL:CG2	3:H:115:THR:N	2.67	0.57
3:H:164:LEU:CD2	3:H:164:LEU:CD1	2.79	0.57
3:B:182:LEU:HD23	3:B:182:LEU:O	2.03	0.57
4:L:75:MET:HE3	4:L:77:ILE:HD11	1.86	0.57
2:E:18:LYS:CG	2:E:19:VAL:N	2.67	0.57
4:N:78:LYS:C	4:N:79:PHE:CD1	2.83	0.57
3:B:54:GLU:O	3:B:56:GLY:N	2.38	0.57
2:C:4:MET:HG2	2:C:103:THR:HG22	1.85	0.57
4:M:29:PHE:HZ	4:M:57:HIS:NE2	2.02	0.57
3:F:148:LYS:HD2	3:F:181:THR:CG2	2.34	0.57
3:H:116:VAL:O	3:H:117:SER:HB2	2.05	0.57
2:A:65:PRO:O	2:A:66:ASP:C	2.48	0.57
3:B:169:HIS:O	3:B:171:PHE:CD1	2.57	0.57
2:C:130:GLN:HB2	3:D:127:TYR:CG	2.39	0.57
2:C:144:ASN:H	2:C:144:ASN:HD22	1.52	0.57
2:G:95:LYS:HE3	3:H:105:PHE:CE2	2.40	0.57
3:H:30:THR:HA	3:H:53:THR:CB	2.33	0.57
2:E:165:VAL:O	2:E:166:LEU:HG	2.05	0.57
3:F:10:GLU:O	3:F:114:VAL:HA	2.05	0.57
1:P:31:VAL:O	1:P:33:GLY:O	2.23	0.57
3:B:48:MET:HA	3:B:64:PHE:HD1	1.70	0.57
2:C:100:PRO:HB3	1:Q:31:VAL:CG1	2.33	0.57
3:D:36:TRP:CD1	3:D:70:PHE:CE2	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:25:VAL:HG23	4:M:75:MET:HE2	1.87	0.57
2:E:85:GLN:O	2:E:87:GLU:N	2.38	0.57
2:E:201:GLU:HG2	2:E:212:VAL:HG21	1.86	0.57
3:F:100:LEU:CD2	3:F:101:LEU:H	2.02	0.57
4:N:53:TYR:O	4:N:57:HIS:HB2	2.05	0.57
2:A:216:ASN:O	2:A:217:ARG:C	2.48	0.57
3:B:9:PRO:O	3:B:9:PRO:HG2	2.04	0.57
3:B:169:HIS:O	3:B:170:THR:C	2.43	0.57
2:C:8:PRO:HG2	2:C:108:THR:HG21	1.86	0.57
4:M:64:TRP:CE3	4:M:64:TRP:O	2.58	0.57
2:E:151:ASN:HD22	2:E:152:VAL:H	1.52	0.57
3:F:7:SER:HB2	3:F:21:SER:H	1.69	0.57
3:F:48:MET:HG2	3:F:64:PHE:HE1	1.70	0.57
4:N:46:ALA:C	4:N:48:ALA:N	2.59	0.57
1:S:29:GLN:NE2	3:H:52:ASN:CA	2.68	0.57
2:G:24:LYS:O	2:G:25:SER:O	2.23	0.57
2:G:53:LEU:O	2:G:54:ILE:HG23	2.03	0.57
4:O:20:GLU:O	4:O:21:VAL:HG23	2.05	0.57
4:O:64:TRP:HE3	4:O:66:ALA:CB	2.15	0.57
2:A:75:THR:O	2:A:76:ASP:OD2	2.22	0.56
3:B:31:ASP:C	3:B:32:PHE:CG	2.83	0.56
2:C:39:LEU:O	2:C:55:TYR:HA	2.04	0.56
3:D:197:THR:HA	3:D:214:LYS:HE2	1.87	0.56
2:G:53:LEU:HB3	2:G:54:ILE:HD13	1.86	0.56
3:H:6:GLN:NE2	3:H:111:GLY:C	2.62	0.56
3:H:20:ILE:HD11	3:H:80:TYR:C	2.30	0.56
3:H:129:LEU:CD1	3:H:145:CYS:N	2.68	0.56
3:H:211:VAL:HG23	3:H:212:ASP:N	2.20	0.56
2:A:126:PRO:CG	2:A:136:ALA:HB1	2.34	0.56
4:L:77:ILE:HD12	4:L:77:ILE:N	2.16	0.56
2:C:157:ASP:OD2	2:C:196:ASN:CB	2.52	0.56
2:C:205:LYS:HB2	2:C:205:LYS:NZ	2.20	0.56
3:D:39:GLN:HG3	3:D:44:GLY:O	2.06	0.56
2:E:196:ASN:O	2:E:196:ASN:OD1	2.22	0.56
4:N:24:LYS:HG3	4:N:38:GLU:HG2	1.86	0.56
2:G:20:THR:HG22	5:G:221:HOH:O	2.03	0.56
1:P:20:GLN:NE2	3:B:2:ILE:CD1	2.67	0.56
2:A:89:GLN:NE2	2:A:173:ASP:O	2.38	0.56
2:A:126:PRO:HB2	2:A:131:LEU:HD21	1.87	0.56
3:B:102:ARG:O	3:B:103:GLN:HG2	2.05	0.56
2:C:8:PRO:HG3	2:C:11:LEU:HG	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:15:GLY:N	3:D:86:LEU:O	2.37	0.56
3:D:174:VAL:O	3:D:175:LEU:O	2.24	0.56
1:Q:11:THR:CA	1:Q:11:THR:CG2	2.75	0.56
3:F:20:ILE:HD12	3:F:112:THR:CB	2.34	0.56
1:S:40:ARG:HG2	1:S:41:GLY:H	1.69	0.56
2:G:126:PRO:HD3	2:G:138:VAL:HG22	1.87	0.56
2:G:169:TRP:N	2:G:169:TRP:CE3	2.73	0.56
3:H:29:PHE:HD2	3:H:74:THR:HG23	1.70	0.56
3:H:129:LEU:HG	3:H:145:CYS:CA	2.35	0.56
3:H:173:ALA:HB1	3:H:180:TYR:CE1	2.40	0.56
3:H:194:PRO:O	3:H:195:SER:C	2.47	0.56
3:B:36:TRP:CE3	3:B:81:LEU:HD12	2.40	0.56
2:C:144:ASN:ND2	2:C:144:ASN:H	2.03	0.56
2:C:155:LYS:NZ	2:C:158:GLY:HA2	2.21	0.56
2:C:160:GLU:C	2:C:161:ARG:HG2	2.30	0.56
3:D:20:ILE:CG2	3:D:112:THR:HG21	2.29	0.56
3:D:35:HIS:O	3:D:96:CYS:HA	2.04	0.56
3:D:102:ARG:CD	3:D:102:ARG:CB	2.77	0.56
3:F:11:LEU:O	3:F:11:LEU:CD1	2.46	0.56
3:F:52:ASN:O	3:F:53:THR:C	2.47	0.56
2:G:27:GLN:C	2:G:28:SER:O	2.48	0.56
3:H:65:LYS:O	3:H:67:ARG:N	2.35	0.56
2:A:151:ASN:C	2:A:152:VAL:HG23	2.31	0.56
2:C:130:GLN:O	2:C:133:SER:N	2.39	0.56
2:C:138:VAL:O	2:C:184:THR:HG23	2.04	0.56
2:G:131:LEU:O	2:G:134:GLY:N	2.28	0.56
3:H:1:GLN:HG2	3:H:2:ILE:N	2.20	0.56
4:O:58:ALA:C	4:O:60:VAL:N	2.64	0.56
2:A:6:GLN:NE2	2:A:107:GLY:HA2	2.20	0.56
2:A:102:LEU:C	2:A:103:THR:CG2	2.78	0.56
2:A:141:PHE:CZ	3:B:185:SER:HB3	2.38	0.56
2:A:151:ASN:O	2:A:152:VAL:CG2	2.51	0.56
3:B:52:ASN:CB	3:B:55:THR:HB	2.36	0.56
2:C:11:LEU:CD2	4:M:37:ALA:HB2	2.35	0.56
2:E:8:PRO:HD3	4:N:53:TYR:CE1	2.41	0.56
2:E:129:GLU:C	2:E:131:LEU:H	2.14	0.56
3:H:65:LYS:C	3:H:67:ARG:N	2.64	0.56
3:H:86:LEU:CD1	3:H:86:LEU:CB	2.79	0.56
2:A:220:CYS:HA	3:B:133:SER:CB	2.36	0.56
2:C:105:GLY:O	2:C:106:ALA:C	2.43	0.56
3:F:159:TRP:CZ2	3:F:186:VAL:CG1	2.89	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:12:LYS:HA	3:H:12:LYS:CE	2.35	0.56
3:H:207:SER:CB	3:H:209:THR:HG23	2.35	0.56
3:B:129:LEU:HB2	3:B:144:GLY:N	2.21	0.56
3:D:9:PRO:O	3:D:10:GLU:HG2	2.06	0.56
3:D:168:VAL:O	3:D:169:HIS:ND1	2.39	0.56
1:Q:30:ILE:O	1:Q:30:ILE:CG1	2.52	0.56
4:M:68:LEU:HD11	4:M:72:GLY:O	2.06	0.56
2:E:55:TYR:HD1	3:F:104:TYR:CE2	2.23	0.56
3:H:20:ILE:HD11	3:H:80:TYR:CA	2.36	0.56
3:H:182:LEU:C	3:H:182:LEU:CD1	2.62	0.56
4:O:35:GLN:O	4:O:37:ALA:N	2.38	0.56
2:A:169:TRP:NE1	2:A:181:MET:HE3	2.21	0.56
2:C:61:GLU:HG3	2:C:62:SER:H	1.71	0.56
2:E:25:SER:OG	2:E:75:THR:HA	2.06	0.56
3:F:51:VAL:HG11	3:F:72:LEU:HD21	1.86	0.56
4:N:47:THR:O	4:N:51:TYR:CE1	2.59	0.56
2:G:102:LEU:HD22	3:H:47:TRP:HE1	1.70	0.56
2:A:88:ASP:C	2:A:90:ALA:N	2.62	0.56
2:A:118:ALA:HA	2:A:206:THR:HG21	1.87	0.56
3:D:17:THR:HG22	3:D:84:ASN:CA	2.35	0.56
3:F:199:THR:HG22	3:F:214:LYS:CA	2.36	0.56
3:H:1:GLN:N	5:H:221:HOH:O	2.32	0.56
3:H:6:GLN:CD	3:H:111:GLY:N	2.63	0.56
3:H:161:SER:H	3:H:201:ASN:ND2	2.04	0.56
2:A:55:TYR:C	2:A:57:ALA:N	2.54	0.55
2:A:95:LYS:HD3	2:A:104:PHE:CE2	2.41	0.55
2:A:135:GLY:HA2	2:A:188:THR:HA	1.88	0.55
3:B:140:MET:O	3:B:141:VAL:HB	2.05	0.55
3:B:151:PHE:CG	3:B:152:PRO:HA	2.41	0.55
2:C:45:LYS:HG2	2:C:90:ALA:HB2	1.88	0.55
2:E:153:LYS:CE	2:E:160:GLU:OE2	2.52	0.55
2:E:188:THR:O	2:E:190:ASP:N	2.40	0.55
3:F:14:PRO:O	3:F:16:GLU:N	2.38	0.55
1:S:37:LEU:HD12	1:S:38:PRO:HD2	1.87	0.55
2:G:194:ARG:NE	2:G:194:ARG:O	2.40	0.55
4:O:73:ASN:C	4:O:73:ASN:HA	2.17	0.55
2:A:130:GLN:C	2:A:132:THR:H	2.12	0.55
1:Q:23:LYS:CE	1:Q:23:LYS:CG	2.83	0.55
2:E:217:ARG:O	2:E:218:ASN:C	2.49	0.55
2:G:19:VAL:O	2:G:80:THR:HA	2.06	0.55
3:H:214:LYS:CG	3:H:215:ILE:H	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:31:ASP:OD1	4:L:33:LYS:N	2.35	0.55
3:F:27:TYR:CZ	3:F:98:ARG:HD3	2.41	0.55
2:G:36:LYS:CD	2:G:36:LYS:CB	2.80	0.55
2:G:186:THR:C	2:G:187:LEU:HG	2.30	0.55
3:H:20:ILE:CD1	3:H:36:TRP:CH2	2.89	0.55
3:H:149:GLY:O	3:H:150:TYR:C	2.48	0.55
3:H:201:ASN:HB3	3:H:212:ASP:OD1	2.06	0.55
3:B:62:ASP:C	3:B:64:PHE:H	2.14	0.55
2:C:132:THR:O	2:C:133:SER:O	2.25	0.55
3:D:78:THR:CG2	3:D:79:ALA:H	2.19	0.55
2:E:18:LYS:HG2	2:E:19:VAL:H	1.70	0.55
2:G:128:SER:O	2:G:131:LEU:HB2	2.05	0.55
3:H:55:THR:CB	3:H:55:THR:N	2.62	0.55
3:H:67:ARG:HG3	3:H:68:PHE:CD2	2.41	0.55
4:O:51:TYR:O	4:O:52:ARG:C	2.43	0.55
3:B:120:LYS:O	3:B:121:THR:C	2.49	0.55
2:C:20:THR:O	2:C:20:THR:HG23	2.06	0.55
2:C:42:TYR:OH	3:D:105:PHE:N	2.31	0.55
2:C:142:LEU:HD11	2:C:152:VAL:CG2	2.34	0.55
2:E:34:THR:O	2:E:35:ARG:HB2	2.06	0.55
2:E:37:ASN:HD21	2:E:74:GLY:H	1.53	0.55
2:E:85:GLN:C	2:E:87:GLU:N	2.65	0.55
3:F:40:ALA:HB3	3:F:43:LYS:HB2	1.88	0.55
2:G:7:SER:OG	2:G:24:LYS:HE3	2.06	0.55
2:G:112:LEU:HD23	2:G:177:SER:CB	2.36	0.55
2:G:157:ASP:HA	2:G:197:SER:HB2	1.89	0.55
4:O:35:GLN:O	4:O:36:THR:C	2.45	0.55
4:O:79:PHE:CD1	4:O:79:PHE:N	2.73	0.55
2:A:205:LYS:CG	2:A:205:LYS:CA	2.81	0.55
3:B:120:LYS:H	3:B:120:LYS:CE	2.19	0.55
2:C:130:GLN:O	2:C:131:LEU:C	2.50	0.55
1:Q:40:ARG:CD	1:Q:45:GLY:O	2.55	0.55
1:S:23:LYS:CD	1:S:23:LYS:C	2.79	0.55
2:G:130:GLN:O	2:G:131:LEU:C	2.47	0.55
3:H:1:GLN:O	3:H:2:ILE:C	2.49	0.55
3:H:50:TRP:NE1	3:H:59:THR:CB	2.70	0.55
2:A:189:LYS:O	2:A:192:TYR:HB3	2.06	0.55
3:B:170:THR:HA	3:B:184:SER:HB2	1.89	0.55
2:C:113:LYS:HD3	2:C:146:TYR:OH	2.07	0.55
3:D:1:GLN:HG2	3:D:2:ILE:H	1.72	0.55
2:E:9:SER:N	4:N:38:GLU:O	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:36:LYS:HD3	2:G:56:TRP:CD2	2.42	0.55
2:A:27:GLN:O	2:A:28:SER:HB3	2.06	0.55
3:B:20:ILE:CG2	3:B:112:THR:HG21	2.37	0.55
4:L:58:ALA:C	4:L:60:VAL:H	2.15	0.55
2:C:50:PRO:O	2:C:51:LYS:NZ	2.32	0.55
3:D:151:PHE:O	3:D:152:PRO:C	2.50	0.55
3:D:178:ASP:N	3:D:178:ASP:OD1	2.32	0.55
4:M:49:GLU:HA	4:M:52:ARG:CB	2.28	0.55
2:G:14:SER:O	2:G:17:GLU:HG3	2.07	0.55
3:H:11:LEU:CD1	3:H:151:PHE:CE2	2.90	0.55
3:H:17:THR:HG23	3:H:84:ASN:HA	1.89	0.55
3:H:171:PHE:HB2	3:H:183:SER:O	2.07	0.55
1:P:36:LEU:O	1:P:37:LEU:CB	2.54	0.55
3:B:160:ASN:HB2	3:B:163:SER:CB	2.34	0.55
4:L:22:THR:OG1	4:L:40:LYS:HE2	2.07	0.55
1:Q:32:GLY:O	1:Q:36:LEU:CB	2.55	0.55
2:E:31:ASN:ND2	2:E:31:ASN:C	2.65	0.55
2:E:31:ASN:HD22	2:E:34:THR:N	1.86	0.55
3:F:67:ARG:CG	3:F:67:ARG:NH1	2.61	0.55
3:F:99:PHE:CD2	3:F:105:PHE:CE1	2.94	0.55
2:G:61:GLU:O	2:G:62:SER:O	2.24	0.55
3:H:10:GLU:OE2	3:H:10:GLU:HA	2.07	0.55
3:H:20:ILE:CD1	3:H:36:TRP:HH2	2.19	0.55
3:H:167:GLY:C	3:H:168:VAL:HG23	2.32	0.55
3:H:188:VAL:CB	3:H:189:PRO:HD3	2.37	0.55
2:A:112:LEU:HB3	2:A:172:GLN:NE2	2.22	0.55
2:A:144:ASN:OD1	3:B:169:HIS:CE1	2.60	0.55
2:A:167:ASN:HA	2:A:182:SER:O	2.06	0.55
3:B:33:SER:HA	3:B:53:THR:CG2	2.37	0.55
3:B:182:LEU:HG	3:B:183:SER:H	1.71	0.55
3:D:83:ILE:HG22	3:D:86:LEU:HD21	1.88	0.55
2:E:43:GLN:O	2:E:50:PRO:HA	2.07	0.55
3:F:82:GLN:CG	3:F:84:ASN:OD1	2.51	0.55
2:G:156:ILE:CG2	2:G:156:ILE:C	2.80	0.55
3:H:36:TRP:CZ2	3:H:80:TYR:O	2.59	0.55
3:H:214:LYS:C	3:H:215:ILE:CG1	2.79	0.55
3:B:33:SER:HA	3:B:53:THR:HG23	1.89	0.54
2:C:1:ASP:H2	2:C:27:GLN:NE2	2.02	0.54
3:D:11:LEU:HA	3:D:115:THR:O	2.07	0.54
2:E:36:LYS:HB3	2:E:56:TRP:CD1	2.43	0.54
2:E:144:ASN:HD21	3:F:169:HIS:CE1	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:120:LYS:CD	3:F:120:LYS:CB	2.77	0.54
1:S:37:LEU:CD2	1:S:37:LEU:HG	2.21	0.54
2:G:167:ASN:ND2	2:G:167:ASN:O	2.35	0.54
3:H:6:GLN:HA	3:H:21:SER:O	2.07	0.54
3:H:188:VAL:HB	3:H:189:PRO:HD3	1.87	0.54
4:O:34:ILE:O	4:O:35:GLN:CG	2.54	0.54
2:A:165:VAL:C	2:A:166:LEU:HD12	2.32	0.54
2:A:198:TYR:O	2:A:215:PHE:N	2.40	0.54
3:D:27:TYR:CD2	3:D:28:THR:O	2.60	0.54
3:D:125:SER:C	3:D:126:VAL:HG23	2.31	0.54
4:N:68:LEU:CD2	4:O:51:TYR:CZ	2.90	0.54
2:G:171:ASP:OD1	2:G:172:GLN:N	2.41	0.54
3:H:156:THR:HG1	3:H:203:ALA:HB3	1.71	0.54
3:H:210:LYS:HG2	3:H:210:LYS:O	2.06	0.54
2:A:55:TYR:N	2:A:55:TYR:CD2	2.75	0.54
3:B:75:SER:C	3:B:77:SER:N	2.52	0.54
3:B:177:SER:O	3:B:178:ASP:C	2.50	0.54
4:L:25:VAL:O	4:L:25:VAL:CG1	2.45	0.54
3:D:153:GLU:N	3:D:154:PRO:HD2	2.10	0.54
2:E:55:TYR:C	2:E:57:ALA:N	2.64	0.54
3:F:130:ALA:HB2	3:F:215:ILE:HG22	1.88	0.54
2:G:123:ILE:HB	2:G:213:LYS:HB3	1.88	0.54
3:H:1:GLN:CG	3:H:2:ILE:H	2.19	0.54
2:A:117:ALA:O	2:A:118:ALA:C	2.48	0.54
2:C:32:SER:C	2:C:34:THR:N	2.61	0.54
2:C:121:VAL:HB	2:C:213:LYS:HG3	1.89	0.54
3:D:10:GLU:HB3	3:D:114:VAL:HG23	1.89	0.54
3:D:132:GLY:O	3:D:133:SER:C	2.50	0.54
3:D:215:ILE:HD12	3:D:215:ILE:N	2.17	0.54
3:F:194:PRO:HG3	3:F:217:PRO:HG2	1.90	0.54
2:G:13:VAL:HG21	2:G:84:VAL:HG21	1.89	0.54
2:G:126:PRO:HG3	2:G:137:SER:O	2.07	0.54
2:G:208:THR:C	2:G:210:PRO:HD3	2.33	0.54
4:O:32:GLY:O	4:O:33:LYS:CG	2.54	0.54
4:O:67:ASP:OD1	4:O:76:ASN:O	2.24	0.54
3:B:60:TYR:HB2	3:B:65:LYS:NZ	2.21	0.54
4:M:47:THR:C	4:M:49:GLU:H	2.16	0.54
2:E:146:TYR:CG	2:E:147:PRO:HA	2.43	0.54
2:G:87:GLU:CD	2:G:87:GLU:H	2.14	0.54
3:H:174:VAL:HG23	3:H:181:THR:O	2.08	0.54
1:P:23:LYS:O	1:P:24:PHE:C	2.50	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:64:PHE:HD2	3:D:68:PHE:CZ	2.24	0.54
2:E:2:ILE:HD12	2:E:2:ILE:N	2.22	0.54
3:F:16:GLU:O	3:F:86:LEU:HB2	2.07	0.54
3:F:93:THR:C	3:F:94:TYR:HD2	2.16	0.54
2:G:102:LEU:HB2	3:H:47:TRP:CG	2.43	0.54
2:G:156:ILE:HD12	2:G:161:ARG:HG3	1.89	0.54
4:O:29:PHE:HB3	4:O:61:ASN:ND2	2.23	0.54
2:A:46:PRO:O	2:A:46:PRO:HG2	2.08	0.54
2:A:95:LYS:HZ2	2:A:95:LYS:CB	2.18	0.54
4:L:55:ALA:CB	4:L:55:ALA:C	2.69	0.54
2:C:62:SER:O	2:C:63:GLY:O	2.25	0.54
3:D:159:TRP:CE3	3:D:186:VAL:HG11	2.43	0.54
2:E:29:LEU:HD12	2:E:39:LEU:HB2	1.88	0.54
2:E:125:PRO:HG3	2:E:215:PHE:CE2	2.42	0.54
4:N:43:PHE:O	4:N:45:GLU:N	2.40	0.54
2:G:44:GLN:OE1	3:H:39:GLN:NE2	2.34	0.54
2:G:84:VAL:O	2:G:85:GLN:OE1	2.25	0.54
3:H:167:GLY:O	3:H:168:VAL:HG23	2.08	0.54
4:O:42:THR:HB	4:O:45:GLU:H	1.72	0.54
2:A:16:GLY:HA2	2:A:83:SER:HA	1.88	0.54
2:C:33:ARG:N	2:C:33:ARG:HD3	2.23	0.54
2:C:54:ILE:HG22	2:C:55:TYR:N	2.22	0.54
1:Q:15:THR:HA	1:Q:19:PRO:HG3	1.90	0.54
4:M:65:THR:CG2	4:M:65:THR:H	2.21	0.54
2:G:67:ARG:HB2	2:G:82:SER:OG	2.08	0.54
2:G:137:SER:OG	2:G:185:LEU:O	2.24	0.54
3:H:52:ASN:CG	3:H:55:THR:HB	2.33	0.54
3:H:65:LYS:HD2	3:H:66:GLY:N	2.23	0.54
3:H:99:PHE:CB	3:H:99:PHE:C	2.75	0.54
4:L:29:PHE:HA	4:L:79:PHE:HB2	1.88	0.54
4:L:65:THR:O	4:L:66:ALA:O	2.26	0.54
2:C:31:ASN:HB2	2:C:98:TYR:CZ	2.42	0.54
3:D:20:ILE:O	3:D:80:TYR:CD1	2.61	0.54
3:D:118:SER:O	3:D:119:ALA:C	2.35	0.54
1:Q:31:VAL:CB	1:Q:31:VAL:C	2.74	0.54
2:E:68:PHE:CE1	2:E:81:ILE:HG12	2.43	0.54
3:F:3:GLN:C	3:F:4:LEU:HD12	2.33	0.54
3:F:158:THR:HG23	3:F:201:ASN:CB	2.37	0.54
1:S:3:THR:CG2	1:S:3:THR:CA	2.80	0.54
2:G:13:VAL:CG2	2:G:84:VAL:HG21	2.37	0.54
2:G:151:ASN:C	2:G:152:VAL:CG2	2.81	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:153:LYS:HD2	2:G:160:GLU:HG3	1.90	0.54
2:G:162:GLN:O	2:G:163:ASN:CG	2.50	0.54
3:H:32:PHE:CE1	3:H:101:LEU:HG	2.43	0.54
3:H:88:ASN:C	3:H:90:ASP:N	2.61	0.54
1:P:40:ARG:HG3	1:P:40:ARG:HH21	1.73	0.54
2:A:7:SER:OG	2:A:8:PRO:HA	2.07	0.54
3:B:136:GLN:H	3:B:136:GLN:CD	2.16	0.54
2:C:131:LEU:HD12	2:C:136:ALA:HB2	1.89	0.54
1:Q:12:LYS:C	1:Q:13:ARG:HG2	2.32	0.54
4:M:21:VAL:O	4:M:41:GLY:CA	2.52	0.54
4:M:42:THR:HB	4:M:45:GLU:HB3	1.89	0.54
4:M:52:ARG:HH12	4:M:56:LEU:HD13	1.73	0.54
2:E:24:LYS:CD	2:E:24:LYS:NZ	2.65	0.54
2:E:55:TYR:CD2	2:E:56:TRP:HB2	2.42	0.54
4:N:65:THR:CG2	4:N:65:THR:CA	2.80	0.54
2:G:29:LEU:CD2	2:G:29:LEU:C	2.81	0.54
3:H:29:PHE:CD2	3:H:74:THR:HG23	2.42	0.54
4:O:27:LEU:CB	4:O:35:GLN:HB2	2.32	0.54
1:P:29:GLN:O	1:P:30:ILE:CB	2.55	0.53
2:A:10:SER:HA	2:A:109:LYS:O	2.08	0.53
3:B:6:GLN:O	3:B:7:SER:C	2.51	0.53
3:B:36:TRP:CE2	3:B:81:LEU:HB2	2.42	0.53
4:L:23:ILE:O	4:L:23:ILE:CG2	2.39	0.53
2:C:55:TYR:O	2:C:56:TRP:HB2	2.06	0.53
3:D:36:TRP:C	3:D:37:VAL:CG2	2.81	0.53
3:D:197:THR:HA	3:D:214:LYS:HE3	1.89	0.53
2:E:218:ASN:N	2:E:218:ASN:OD1	2.38	0.53
2:G:93:TYR:CZ	3:H:45:LEU:HD23	2.43	0.53
2:G:98:TYR:CG	2:G:98:TYR:O	2.44	0.53
3:H:6:GLN:CD	3:H:111:GLY:CA	2.81	0.53
3:H:37:VAL:HG13	3:H:46:ASN:O	2.08	0.53
4:O:68:LEU:HD23	4:O:68:LEU:H	1.72	0.53
3:D:43:LYS:HA	3:D:43:LYS:HE3	1.89	0.53
3:F:159:TRP:CH2	3:F:186:VAL:CG1	2.91	0.53
2:G:68:PHE:HD1	2:G:81:ILE:HD12	1.72	0.53
3:H:78:THR:HG21	3:H:80:TYR:CZ	2.43	0.53
3:H:99:PHE:CA	3:H:99:PHE:CG	2.81	0.53
3:H:198:VAL:CG2	3:H:198:VAL:CA	2.79	0.53
1:P:38:PRO:O	1:P:39:ARG:O	2.26	0.53
2:A:8:PRO:O	2:A:108:THR:HG23	2.07	0.53
2:A:23:CYS:O	2:A:77:PHE:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:98:TYR:CG	2:A:98:TYR:O	2.62	0.53
2:C:10:SER:O	4:M:37:ALA:HA	2.09	0.53
2:C:95:LYS:CE	3:D:104:TYR:HA	2.39	0.53
2:C:156:ILE:CD1	2:C:198:TYR:CD1	2.91	0.53
2:E:96:GLN:HE22	2:E:99:ILE:H	1.55	0.53
3:F:67:ARG:NH1	3:F:67:ARG:HG3	2.23	0.53
2:G:37:ASN:HB2	2:G:57:ALA:HB2	1.90	0.53
2:A:16:GLY:C	2:A:83:SER:HA	2.34	0.53
3:B:102:ARG:O	3:B:103:GLN:HB2	2.08	0.53
3:B:216:VAL:HG13	3:B:217:PRO:HD2	1.90	0.53
3:D:207:SER:C	3:D:209:THR:N	2.65	0.53
2:E:6:GLN:O	2:E:7:SER:HB3	2.07	0.53
4:N:56:LEU:HG	4:N:57:HIS:N	2.22	0.53
2:G:173:ASP:HB3	2:G:177:SER:H	1.73	0.53
2:G:196:ASN:ND2	2:G:216:ASN:CB	2.71	0.53
3:H:20:ILE:HD11	3:H:81:LEU:N	2.24	0.53
2:A:95:LYS:HD3	2:A:104:PHE:CZ	2.43	0.53
3:B:54:GLU:C	3:B:56:GLY:H	2.15	0.53
3:B:69:ALA:C	3:B:70:PHE:HD2	2.16	0.53
4:L:43:PHE:HA	4:L:46:ALA:HB3	1.91	0.53
2:C:188:THR:HG23	2:C:191:GLU:HB2	1.90	0.53
3:D:161:SER:CA	3:D:201:ASN:HD21	2.22	0.53
2:E:30:LEU:HD23	2:E:31:ASN:N	2.23	0.53
2:E:215:PHE:CD1	2:E:215:PHE:O	2.61	0.53
3:F:175:LEU:HD13	3:F:180:TYR:CZ	2.43	0.53
2:G:125:PRO:O	2:G:126:PRO:C	2.51	0.53
2:G:205:LYS:O	2:G:207:SER:N	2.41	0.53
2:A:54:ILE:CD1	2:A:70:GLY:H	2.21	0.53
2:A:110:LEU:O	2:A:110:LEU:HG	2.08	0.53
3:B:128:PRO:O	3:B:129:LEU:HD12	2.07	0.53
2:C:19:VAL:HG13	2:C:81:ILE:HB	1.90	0.53
2:C:176:ASP:O	2:C:178:THR:N	2.41	0.53
2:C:182:SER:CB	3:D:171:PHE:CD2	2.92	0.53
3:D:36:TRP:O	3:D:48:MET:HB2	2.09	0.53
1:Q:12:LYS:O	1:Q:13:ARG:CG	2.54	0.53
2:E:31:ASN:ND2	2:E:33:ARG:H	2.07	0.53
2:E:175:LYS:O	2:E:175:LYS:CG	2.49	0.53
2:G:98:TYR:CD1	2:G:99:ILE:HG13	2.43	0.53
3:H:127:TYR:O	3:H:146:LEU:HB3	2.09	0.53
2:A:68:PHE:CE1	2:A:81:ILE:HG12	2.44	0.53
3:B:86:LEU:HD23	3:B:116:VAL:HB	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:42:TYR:HH	3:D:104:TYR:HB2	1.72	0.53
2:C:157:ASP:HA	2:C:197:SER:OG	2.08	0.53
2:E:4:MET:HE3	2:E:23:CYS:SG	2.49	0.53
2:E:135:GLY:HA2	2:E:188:THR:HA	1.91	0.53
2:E:144:ASN:ND2	3:F:169:HIS:CE1	2.77	0.53
3:F:62:ASP:O	3:F:64:PHE:N	2.41	0.53
3:F:101:LEU:CD2	3:F:101:LEU:CD1	2.82	0.53
4:N:77:ILE:CG2	4:N:79:PHE:CZ	2.91	0.53
2:G:93:TYR:CD2	3:H:45:LEU:HD23	2.43	0.53
4:O:73:ASN:C	4:O:73:ASN:CG	2.76	0.53
2:A:119:PRO:HG2	2:A:211:ILE:HD12	1.90	0.53
2:C:145:PHE:C	2:C:145:PHE:HD1	2.14	0.53
3:D:155:VAL:HG12	3:D:156:THR:N	2.20	0.53
3:D:189:PRO:C	3:D:191:SER:N	2.66	0.53
4:M:43:PHE:O	4:M:44:GLU:C	2.52	0.53
2:E:88:ASP:C	2:E:90:ALA:N	2.64	0.53
3:F:199:THR:HG22	3:F:214:LYS:HA	1.90	0.53
4:N:65:THR:CG2	4:N:65:THR:N	2.71	0.53
1:P:34:VAL:CB	2:A:38:TYR:OH	2.57	0.53
4:L:57:HIS:O	4:L:61:ASN:OD1	2.26	0.53
4:L:68:LEU:HD12	4:L:68:LEU:N	2.23	0.53
2:C:166:LEU:HD23	3:D:174:VAL:HG11	1.90	0.53
4:M:57:HIS:O	4:M:58:ALA:C	2.50	0.53
3:F:1:GLN:CG	3:F:1:GLN:CA	2.83	0.53
2:A:7:SER:HA	2:A:8:PRO:C	2.34	0.53
2:A:60:ARG:CZ	2:A:66:ASP:HA	2.39	0.53
2:C:34:THR:C	2:C:36:LYS:H	2.17	0.53
2:C:108:THR:O	2:C:109:LYS:C	2.42	0.53
2:C:199:THR:HB	2:C:214:SER:HB2	1.89	0.53
2:C:205:LYS:C	2:C:207:SER:H	2.17	0.53
3:D:133:SER:C	3:D:135:ALA:H	2.16	0.53
1:Q:9:ARG:O	1:Q:10:LYS:C	2.52	0.53
4:N:58:ALA:C	4:N:60:VAL:N	2.66	0.53
2:G:6:GLN:NE2	2:G:108:THR:H	2.08	0.53
2:G:130:GLN:O	2:G:131:LEU:O	2.26	0.53
3:H:24:ALA:O	3:H:25:SER:HB3	2.09	0.53
2:A:196:ASN:HD21	2:A:218:ASN:H	1.55	0.52
4:M:75:MET:HG2	4:M:77:ILE:HD11	1.91	0.52
2:E:179:TYR:C	2:E:180:SER:OG	2.51	0.52
3:F:48:MET:SD	3:F:48:MET:CB	2.90	0.52
3:F:136:GLN:C	3:F:138:ASN:H	2.16	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:5:VAL:HG23	3:B:23:LYS:O	2.09	0.52
3:D:20:ILE:CG1	3:D:81:LEU:HB3	2.39	0.52
4:M:52:ARG:HH12	4:M:56:LEU:CD1	2.22	0.52
2:E:65:PRO:C	2:E:67:ARG:N	2.67	0.52
3:F:76:ALA:O	3:F:77:SER:C	2.52	0.52
3:F:78:THR:CG2	3:F:79:ALA:N	2.71	0.52
3:F:129:LEU:HB2	3:F:144:GLY:O	2.10	0.52
4:O:27:LEU:O	4:O:34:ILE:C	2.52	0.52
2:A:118:ALA:HB2	2:A:206:THR:OG1	2.09	0.52
2:A:144:ASN:H	3:B:169:HIS:CE1	2.25	0.52
2:C:125:PRO:HB3	2:C:215:PHE:CE1	2.44	0.52
3:D:186:VAL:O	3:D:186:VAL:HG22	2.08	0.52
3:F:20:ILE:HG23	3:F:81:LEU:HB3	1.92	0.52
4:N:53:TYR:CZ	4:N:57:HIS:ND1	2.77	0.52
1:P:24:PHE:CB	1:P:25:PRO:CD	2.87	0.52
3:B:36:TRP:CE3	3:B:95:PHE:O	2.63	0.52
3:B:67:ARG:NH2	3:B:68:PHE:HE2	2.08	0.52
4:L:58:ALA:HA	4:L:62:GLY:O	2.10	0.52
2:C:156:ILE:HB	2:C:161:ARG:HG3	1.91	0.52
1:Q:40:ARG:NE	1:Q:45:GLY:C	2.67	0.52
2:E:33:ARG:HG3	2:E:33:ARG:HH11	1.74	0.52
3:H:99:PHE:HB2	3:H:105:PHE:HE1	1.74	0.52
4:O:27:LEU:O	4:O:34:ILE:CA	2.52	0.52
3:B:22:CYS:O	3:B:78:THR:HA	2.10	0.52
3:B:40:ALA:HB3	3:B:43:LYS:CB	2.39	0.52
3:B:149:GLY:C	3:B:179:LEU:HD23	2.34	0.52
2:C:4:MET:CE	2:C:25:SER:HB3	2.37	0.52
2:C:95:LYS:HZ1	3:D:104:TYR:CA	2.14	0.52
2:E:60:ARG:NH2	2:E:66:ASP:HA	2.24	0.52
3:F:17:THR:HG22	3:F:18:VAL:N	2.24	0.52
2:G:20:THR:HB	2:G:80:THR:CG2	2.39	0.52
2:G:137:SER:HG	2:G:185:LEU:C	2.17	0.52
3:H:61:ALA:O	3:H:64:PHE:N	2.41	0.52
1:P:32:GLY:HA2	2:A:100:PRO:HD3	1.90	0.52
3:B:67:ARG:NH1	3:B:67:ARG:HB3	2.24	0.52
2:C:130:GLN:HA	3:D:127:TYR:CE1	2.44	0.52
2:C:144:ASN:N	2:C:144:ASN:HD22	2.05	0.52
3:D:175:LEU:CD1	3:D:180:TYR:CE1	2.93	0.52
3:D:180:TYR:C	3:D:181:THR:CG2	2.80	0.52
2:E:13:VAL:HG23	2:E:14:SER:O	2.10	0.52
2:E:96:GLN:CG	2:E:96:GLN:O	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:100:LEU:CD2	3:F:101:LEU:N	2.67	0.52
3:H:29:PHE:O	3:H:29:PHE:CG	2.61	0.52
3:H:165:SER:O	3:H:167:GLY:N	2.43	0.52
1:P:40:ARG:HD3	3:F:100:LEU:HD11	1.91	0.52
3:B:194:PRO:C	3:B:196:GLU:H	2.17	0.52
3:D:138:ASN:HD22	3:D:139:SER:N	1.99	0.52
3:D:201:ASN:HA	3:D:212:ASP:HA	1.91	0.52
3:F:41:PRO:O	3:F:43:LYS:HG3	2.09	0.52
3:F:91:THR:O	3:F:91:THR:HG22	2.05	0.52
3:B:73:GLU:OE2	3:B:75:SER:HB3	2.10	0.52
4:L:56:LEU:C	4:L:58:ALA:N	2.66	0.52
3:D:202:VAL:HG13	3:D:211:VAL:O	2.09	0.52
2:E:167:ASN:OD1	2:E:183:SER:CB	2.58	0.52
2:E:172:GLN:O	2:E:173:ASP:C	2.52	0.52
3:F:7:SER:HB3	3:F:20:ILE:CG1	2.32	0.52
3:F:31:ASP:O	3:F:32:PHE:CD2	2.62	0.52
3:F:70:PHE:HE2	3:F:81:LEU:HD23	1.75	0.52
2:G:123:ILE:H	2:G:213:LYS:CE	2.23	0.52
2:G:127:SER:O	2:G:131:LEU:HD23	2.09	0.52
3:H:28:THR:HG22	3:H:31:ASP:H	1.74	0.52
3:H:36:TRP:C	3:H:37:VAL:CG2	2.83	0.52
3:H:52:ASN:CB	3:H:55:THR:HB	2.38	0.52
3:H:164:LEU:CD2	3:H:164:LEU:HA	2.39	0.52
4:O:64:TRP:CD1	4:O:64:TRP:H	2.28	0.52
2:A:20:THR:O	4:L:53:TYR:HE1	1.92	0.52
2:A:211:ILE:CD1	2:A:211:ILE:HG21	2.40	0.52
2:C:24:LYS:HD2	2:C:76:ASP:OD2	2.10	0.52
4:N:68:LEU:O	4:N:69:GLU:C	2.51	0.52
1:S:19:PRO:HG2	1:S:20:GLN:HG2	1.92	0.52
2:G:22:SER:HB3	4:O:56:LEU:HD21	1.92	0.52
2:G:173:ASP:HB3	2:G:177:SER:N	2.25	0.52
2:A:211:ILE:CD1	2:A:211:ILE:CG2	2.87	0.52
2:C:37:ASN:O	2:C:56:TRP:C	2.53	0.52
3:D:64:PHE:C	3:D:66:GLY:H	2.18	0.52
3:D:155:VAL:CG1	3:D:156:THR:N	2.65	0.52
2:E:165:VAL:CG1	5:E:225:HOH:O	2.55	0.52
3:F:190:SER:O	3:F:191:SER:C	2.50	0.52
2:G:130:GLN:HG2	2:G:135:GLY:O	2.10	0.52
3:H:60:TYR:OH	3:H:69:ALA:CA	2.49	0.52
4:O:28:ILE:N	4:O:28:ILE:CD1	2.72	0.52
2:A:97:ALA:HA	2:A:102:LEU:CD2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:154:TRP:O	2:A:160:GLU:HA	2.10	0.51
3:B:151:PHE:CD1	3:B:152:PRO:CA	2.93	0.51
3:D:17:THR:CG2	3:D:84:ASN:HA	2.39	0.51
4:M:20:GLU:HG2	4:M:20:GLU:O	2.09	0.51
1:S:22:VAL:O	1:S:22:VAL:CG1	2.52	0.51
2:G:2:ILE:O	2:G:3:VAL:C	2.52	0.51
2:G:53:LEU:O	2:G:54:ILE:CG2	2.58	0.51
3:H:2:ILE:HG21	3:H:27:TYR:CD1	2.45	0.51
3:H:72:LEU:HD23	3:H:74:THR:N	2.24	0.51
4:O:58:ALA:O	4:O:61:ASN:N	2.28	0.51
2:C:130:GLN:HE22	2:C:137:SER:CB	2.22	0.51
3:D:1:GLN:HE22	1:Q:13:ARG:HD2	1.75	0.51
1:Q:42:PRO:O	1:Q:43:ARG:HB3	2.11	0.51
2:E:11:LEU:CD1	2:E:11:LEU:HG	2.19	0.51
2:E:28:SER:CB	2:E:28:SER:HG	2.10	0.51
2:E:140:CYS:C	2:E:141:PHE:CD2	2.88	0.51
3:F:178:ASP:O	3:F:179:LEU:HD23	2.10	0.51
1:S:13:ARG:O	1:S:14:ASN:CG	2.54	0.51
2:G:29:LEU:O	2:G:29:LEU:HD23	2.04	0.51
3:H:150:TYR:O	3:H:180:TYR:HB2	2.11	0.51
2:A:95:LYS:HA	2:A:103:THR:O	2.11	0.51
3:B:48:MET:SD	3:B:64:PHE:CE1	3.04	0.51
2:C:56:TRP:O	2:C:57:ALA:CB	2.58	0.51
2:C:173:ASP:O	2:C:177:SER:N	2.43	0.51
4:M:55:ALA:HB2	5:M:83:HOH:O	2.10	0.51
3:F:58:PRO:O	3:F:58:PRO:CG	2.48	0.51
3:F:159:TRP:HE3	3:F:199:THR:O	1.92	0.51
3:H:87:LYS:HG3	5:H:227:HOH:O	2.09	0.51
3:H:151:PHE:H	3:H:152:PRO:CD	2.23	0.51
3:B:52:ASN:OD1	3:B:55:THR:HB	2.11	0.51
4:M:53:TYR:O	4:M:54:ALA:C	2.50	0.51
2:E:43:GLN:HA	2:E:91:VAL:O	2.10	0.51
2:E:154:TRP:CE2	2:E:185:LEU:HB3	2.45	0.51
3:F:8:GLY:O	3:F:10:GLU:HG2	2.10	0.51
4:N:22:THR:CG2	4:N:23:ILE:N	2.68	0.51
2:G:36:LYS:HD3	2:G:56:TRP:CE2	2.45	0.51
2:A:86:ALA:O	2:A:89:GLN:HG3	2.11	0.51
2:A:89:GLN:CD	2:A:172:GLN:HG2	2.34	0.51
3:B:161:SER:H	3:B:201:ASN:HD21	1.56	0.51
2:C:169:TRP:NE1	2:C:181:MET:SD	2.83	0.51
3:D:2:ILE:HA	3:D:25:SER:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:75:SER:HG	3:F:76:ALA:H	1.55	0.51
3:F:143:LEU:HD12	3:F:198:VAL:HG11	1.92	0.51
4:L:53:TYR:CZ	4:L:57:HIS:NE2	2.79	0.51
4:L:53:TYR:O	4:L:56:LEU:HB3	2.11	0.51
2:C:137:SER:HA	2:C:186:THR:HA	1.92	0.51
3:D:40:ALA:HB3	3:D:43:LYS:HG3	1.93	0.51
1:Q:22:VAL:CA	1:Q:22:VAL:CG2	2.82	0.51
2:E:194:ARG:CZ	2:E:195:HIS:NE2	2.74	0.51
3:F:93:THR:HG23	3:F:113:THR:HG23	1.93	0.51
3:F:182:LEU:C	3:F:182:LEU:CD2	2.82	0.51
4:N:44:GLU:OE2	4:O:52:ARG:NH1	2.42	0.51
2:G:68:PHE:O	2:G:69:THR:C	2.52	0.51
3:H:17:THR:HA	3:H:86:LEU:HD13	1.93	0.51
4:O:26:ASN:O	4:O:27:LEU:HD23	2.10	0.51
4:O:67:ASP:OD1	4:O:67:ASP:N	2.43	0.51
2:A:12:ALA:N	4:L:36:THR:O	2.42	0.51
2:C:3:VAL:HG12	2:C:4:MET:N	2.25	0.51
2:C:37:ASN:CG	2:C:73:SER:HA	2.36	0.51
2:C:52:VAL:HG21	3:D:104:TYR:HD1	1.75	0.51
3:D:3:GLN:HG2	3:D:4:LEU:N	2.21	0.51
3:D:31:ASP:C	3:D:32:PHE:CD2	2.87	0.51
2:E:101:PRO:O	2:E:102:LEU:C	2.53	0.51
1:S:44:LEU:O	1:S:45:GLY:C	2.52	0.51
3:B:193:TRP:CG	3:B:194:PRO:CA	2.90	0.51
2:C:1:ASP:O	2:C:2:ILE:C	2.53	0.51
3:D:54:GLU:OE1	1:Q:27:GLY:CA	2.58	0.51
4:M:65:THR:H	4:M:65:THR:HG22	1.76	0.51
2:E:65:PRO:O	2:E:67:ARG:N	2.44	0.51
2:E:148:LYS:NZ	2:E:148:LYS:CB	2.74	0.51
3:F:174:VAL:HG12	3:F:175:LEU:N	2.26	0.51
2:G:55:TYR:CE1	2:G:59:THR:HG22	2.46	0.51
2:G:198:TYR:O	2:G:215:PHE:N	2.44	0.51
3:H:18:VAL:O	3:H:18:VAL:HG13	2.11	0.51
3:H:37:VAL:HG13	3:H:46:ASN:C	2.36	0.51
2:C:36:LYS:HE2	2:C:36:LYS:HA	1.93	0.51
3:D:86:LEU:HD13	3:D:116:VAL:HG22	1.91	0.51
2:E:21:MET:O	2:E:78:THR:HG22	2.11	0.51
3:F:103:GLN:N	3:F:103:GLN:CD	2.69	0.51
2:G:55:TYR:CE1	2:G:59:THR:CG2	2.94	0.51
2:G:203:THR:HA	2:G:210:PRO:CG	2.40	0.51
2:C:176:ASP:O	2:C:177:SER:C	2.54	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:218:ASN:OD1	2:C:218:ASN:N	2.43	0.51
3:D:103:GLN:CG	3:D:103:GLN:NE2	2.63	0.51
3:F:158:THR:HG23	3:F:201:ASN:O	2.11	0.51
2:G:130:GLN:O	2:G:133:SER:N	2.43	0.51
2:G:137:SER:OG	2:G:186:THR:CA	2.51	0.51
2:G:175:LYS:CG	2:G:175:LYS:CE	2.82	0.51
3:H:197:THR:HG22	3:H:214:LYS:HE3	1.92	0.51
4:O:58:ALA:HA	4:O:62:GLY:O	2.11	0.51
2:A:50:PRO:HB2	3:B:108:TRP:CZ2	2.46	0.50
3:B:131:PRO:O	3:B:218:ARG:HG3	2.11	0.50
3:D:52:ASN:O	3:D:53:THR:C	2.51	0.50
2:E:204:HIS:C	2:E:206:THR:H	2.18	0.50
2:G:68:PHE:CE1	2:G:81:ILE:HD12	2.46	0.50
3:H:18:VAL:HG12	3:H:86:LEU:HD21	1.93	0.50
3:H:217:PRO:O	3:H:218:ARG:O	2.29	0.50
4:O:21:VAL:C	4:O:22:THR:HG1	2.18	0.50
2:A:138:VAL:HG21	2:A:198:TYR:CD1	2.46	0.50
2:A:188:THR:HG21	2:A:191:GLU:OE2	2.11	0.50
2:C:198:TYR:O	2:C:214:SER:HB2	2.11	0.50
3:D:65:LYS:HG2	3:D:65:LYS:O	2.11	0.50
2:E:55:TYR:C	2:E:55:TYR:CD2	2.87	0.50
2:E:146:TYR:CD2	2:E:147:PRO:HA	2.47	0.50
3:F:156:THR:CA	3:F:156:THR:CG2	2.83	0.50
3:F:174:VAL:O	3:F:180:TYR:HA	2.12	0.50
2:G:152:VAL:HG22	2:G:202:ALA:HA	1.94	0.50
2:A:187:LEU:HD12	2:A:192:TYR:HB2	1.93	0.50
2:A:196:ASN:OD1	2:A:216:ASN:HB3	2.11	0.50
3:D:35:HIS:NE2	3:D:99:PHE:CB	2.74	0.50
3:F:159:TRP:CE3	3:F:199:THR:O	2.65	0.50
2:G:61:GLU:O	2:G:62:SER:C	2.54	0.50
3:H:76:ALA:O	3:H:77:SER:C	2.53	0.50
1:P:24:PHE:CB	1:P:25:PRO:HD2	2.35	0.50
1:P:40:ARG:NE	3:F:98:ARG:NH1	2.54	0.50
2:A:29:LEU:HD12	2:A:77:PHE:CE2	2.45	0.50
2:A:198:TYR:HB3	2:A:215:PHE:HD2	1.75	0.50
3:B:159:TRP:O	3:B:160:ASN:HB2	2.09	0.50
2:C:54:ILE:HG21	2:C:70:GLY:HA3	1.92	0.50
2:C:76:ASP:C	2:C:77:PHE:CD2	2.89	0.50
2:C:211:ILE:O	2:C:211:ILE:HG22	2.10	0.50
3:D:7:SER:O	3:D:112:THR:HG23	2.12	0.50
3:D:146:LEU:HD12	3:D:147:VAL:H	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:25:VAL:C	4:M:75:MET:O	2.53	0.50
2:E:2:ILE:N	2:E:2:ILE:CD1	2.75	0.50
2:E:141:PHE:HZ	3:F:183:SER:HB2	1.75	0.50
2:G:56:TRP:C	2:G:58:SER:H	2.20	0.50
2:G:203:THR:HA	2:G:210:PRO:CB	2.41	0.50
3:B:176:GLN:O	3:B:177:SER:CB	2.59	0.50
4:N:64:TRP:HA	4:N:78:LYS:O	2.11	0.50
1:S:11:THR:CG2	1:S:12:LYS:HZ2	2.24	0.50
2:G:54:ILE:CD1	2:G:54:ILE:CG2	2.89	0.50
4:O:42:THR:C	4:O:44:GLU:N	2.61	0.50
1:P:29:GLN:C	1:P:30:ILE:HG12	2.37	0.50
2:A:25:SER:HB3	2:A:29:LEU:HD11	1.92	0.50
3:D:74:THR:O	3:D:76:ALA:N	2.44	0.50
4:M:64:TRP:O	4:M:64:TRP:CD2	2.64	0.50
2:E:189:LYS:O	2:E:189:LYS:HD3	2.12	0.50
3:F:52:ASN:ND2	3:F:57:GLU:HB2	2.21	0.50
4:N:52:ARG:NH1	4:O:43:PHE:CD2	2.80	0.50
2:G:52:VAL:HG22	2:G:53:LEU:H	1.77	0.50
2:G:54:ILE:CD1	2:G:54:ILE:CB	2.81	0.50
2:G:81:ILE:CG2	2:G:84:VAL:HG12	2.41	0.50
2:G:95:LYS:HE3	2:G:102:LEU:HD23	1.93	0.50
2:G:125:PRO:CB	2:G:215:PHE:CZ	2.92	0.50
3:H:35:HIS:HA	3:H:49:GLY:O	2.11	0.50
3:H:132:GLY:O	3:H:135:ALA:N	2.44	0.50
2:A:6:GLN:HG2	2:A:94:CYS:SG	2.51	0.50
2:A:6:GLN:OE1	2:A:93:TYR:HA	2.12	0.50
3:B:55:THR:HG22	3:B:57:GLU:CB	2.41	0.50
2:E:9:SER:HB3	4:N:38:GLU:O	2.12	0.50
2:E:49:SER:C	2:E:50:PRO:O	2.50	0.50
2:E:151:ASN:ND2	2:E:152:VAL:H	2.10	0.50
2:G:55:TYR:CZ	2:G:59:THR:CG2	2.94	0.50
2:G:146:TYR:HA	2:G:147:PRO:C	2.33	0.50
3:H:1:GLN:CG	3:H:2:ILE:N	2.74	0.50
3:H:4:LEU:CD2	3:H:24:ALA:HA	2.38	0.50
2:A:126:PRO:HB2	2:A:131:LEU:CD2	2.42	0.50
2:C:16:GLY:HA2	2:C:84:VAL:O	2.11	0.50
2:C:67:ARG:HG3	2:C:68:PHE:N	2.26	0.50
2:C:142:LEU:HD12	2:C:181:MET:HE2	1.94	0.50
1:Q:31:VAL:CA	1:Q:31:VAL:CG2	2.79	0.50
2:E:12:ALA:CB	2:E:113:LYS:NZ	2.75	0.50
2:E:31:ASN:HD21	2:E:34:THR:N	2.05	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:31:ASP:C	3:F:32:PHE:CG	2.89	0.50
3:F:188:VAL:HG11	5:F:221:HOH:O	2.10	0.50
2:G:86:ALA:C	2:G:88:ASP:N	2.63	0.50
2:G:112:LEU:HG	2:G:113:LYS:H	1.77	0.50
2:G:205:LYS:CD	2:G:205:LYS:NZ	2.67	0.50
3:H:176:GLN:O	3:H:177:SER:C	2.49	0.50
3:H:214:LYS:CG	3:H:215:ILE:N	2.70	0.50
4:O:27:LEU:C	4:O:28:ILE:HD12	2.37	0.50
2:A:6:GLN:CD	2:A:93:TYR:HA	2.37	0.50
2:A:67:ARG:NH2	2:A:88:ASP:OD1	2.45	0.50
3:B:48:MET:HA	3:B:64:PHE:HE1	1.75	0.50
3:B:120:LYS:HD3	3:B:120:LYS:N	2.10	0.50
3:B:181:THR:HG22	3:B:182:LEU:N	2.27	0.50
2:C:194:ARG:O	2:C:195:HIS:O	2.30	0.50
2:E:55:TYR:C	2:E:57:ALA:H	2.20	0.50
2:E:204:HIS:CE1	2:E:205:LYS:HG3	2.46	0.50
3:F:7:SER:N	3:F:21:SER:OG	2.44	0.50
3:F:50:TRP:CD1	3:F:50:TRP:N	2.77	0.50
2:G:56:TRP:CZ2	3:H:102:ARG:HD3	2.46	0.50
2:G:93:TYR:CD1	3:H:45:LEU:HD23	2.47	0.50
2:G:122:SER:CA	2:G:213:LYS:HE3	2.33	0.50
3:H:36:TRP:CA	3:H:95:PHE:O	2.55	0.50
2:A:55:TYR:O	2:A:56:TRP:C	2.55	0.49
2:A:168:SER:OG	3:B:172:PRO:O	2.20	0.49
3:B:52:ASN:CG	3:B:55:THR:CB	2.77	0.49
3:B:170:THR:HA	3:B:184:SER:HA	1.93	0.49
4:L:68:LEU:HG	4:L:75:MET:HG3	1.94	0.49
2:C:124:PHE:HB2	2:C:139:VAL:HB	1.94	0.49
3:D:161:SER:HA	3:D:201:ASN:HD21	1.77	0.49
3:D:162:GLY:O	3:D:164:LEU:N	2.45	0.49
3:D:176:GLN:O	3:D:177:SER:C	2.55	0.49
2:E:88:ASP:HB3	2:E:92:TYR:OH	2.11	0.49
3:H:36:TRP:CZ2	3:H:80:TYR:C	2.90	0.49
3:H:133:SER:N	3:H:218:ARG:HD3	2.21	0.49
2:A:34:THR:O	2:A:35:ARG:HB2	2.12	0.49
3:B:36:TRP:HB2	3:B:48:MET:HB2	1.93	0.49
3:B:67:ARG:NH1	3:B:84:ASN:O	2.45	0.49
2:C:139:VAL:HG12	2:C:140:CYS:N	2.27	0.49
2:C:172:GLN:HG3	2:C:179:TYR:CE1	2.47	0.49
1:Q:16:ASN:HD21	1:Q:17:ARG:HG3	1.71	0.49
3:F:165:SER:O	3:F:168:VAL:CG2	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N:34:ILE:CG2	4:N:35:GLN:N	2.75	0.49
4:N:66:ALA:N	4:O:68:LEU:O	2.45	0.49
2:G:29:LEU:O	2:G:30:LEU:HB3	2.12	0.49
3:H:132:GLY:O	3:H:135:ALA:CB	2.60	0.49
4:O:73:ASN:C	4:O:73:ASN:OD1	2.55	0.49
2:A:48:GLN:H	2:A:48:GLN:CD	2.20	0.49
2:A:121:VAL:O	2:A:213:LYS:HE2	2.12	0.49
2:A:191:GLU:N	2:A:192:TYR:N	2.59	0.49
4:L:64:TRP:HZ3	4:L:66:ALA:HB3	1.77	0.49
2:C:214:SER:OG	2:C:215:PHE:N	2.28	0.49
4:M:27:LEU:HB3	4:M:29:PHE:HE1	1.76	0.49
4:N:31:ASP:OD2	4:N:33:LYS:CG	2.50	0.49
2:G:97:ALA:O	2:G:99:ILE:N	2.44	0.49
3:H:1:GLN:O	3:H:2:ILE:O	2.31	0.49
3:H:6:GLN:OE1	3:H:111:GLY:N	2.46	0.49
3:H:199:THR:HA	3:H:214:LYS:HA	1.94	0.49
3:B:159:TRP:CE2	3:B:186:VAL:HG13	2.47	0.49
2:C:61:GLU:O	2:C:64:VAL:HG23	2.12	0.49
2:C:155:LYS:CE	2:C:158:GLY:HA2	2.42	0.49
2:C:170:THR:HG23	3:D:171:PHE:CD1	2.47	0.49
3:D:11:LEU:HG	3:D:152:PRO:HG3	1.93	0.49
3:D:30:THR:CG2	3:D:31:ASP:OD1	2.57	0.49
3:D:96:CYS:O	3:D:96:CYS:SG	2.70	0.49
3:D:97:ALA:HB2	3:D:108:TRP:CB	2.42	0.49
3:D:159:TRP:CZ3	3:D:186:VAL:HG11	2.46	0.49
1:Q:15:THR:HA	1:Q:19:PRO:CG	2.41	0.49
1:Q:40:ARG:HB3	1:Q:40:ARG:HH11	1.76	0.49
2:E:41:TRP:CD2	2:E:79:LEU:HB2	2.47	0.49
3:F:29:PHE:CG	3:F:29:PHE:O	2.65	0.49
4:N:62:GLY:HA3	4:N:79:PHE:HB3	1.93	0.49
1:S:29:GLN:NE2	3:H:53:THR:OG1	2.45	0.49
1:S:29:GLN:HA	3:H:101:LEU:HD22	1.93	0.49
2:G:52:VAL:O	2:G:52:VAL:CG1	2.45	0.49
2:G:121:VAL:HG13	2:G:140:CYS:SG	2.53	0.49
4:O:54:ALA:O	4:O:57:HIS:N	2.40	0.49
2:A:169:TRP:CE2	2:A:181:MET:HE3	2.48	0.49
2:C:9:SER:C	2:C:108:THR:HA	2.37	0.49
3:D:160:ASN:C	3:D:162:GLY:H	2.20	0.49
1:Q:23:LYS:CD	1:Q:23:LYS:CB	2.83	0.49
1:Q:33:GLY:HA2	1:Q:36:LEU:CB	2.20	0.49
4:M:26:ASN:OD1	4:M:34:ILE:HD11	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:65:THR:OG1	4:M:66:ALA:N	2.43	0.49
2:E:36:LYS:HE2	2:E:37:ASN:N	2.22	0.49
3:F:4:LEU:HD12	3:F:4:LEU:N	2.27	0.49
3:F:121:THR:HG23	3:F:152:PRO:HD3	1.94	0.49
3:H:36:TRP:C	3:H:48:MET:HB2	2.38	0.49
3:H:93:THR:HG23	3:H:113:THR:HA	1.95	0.49
3:H:148:LYS:HA	3:H:181:THR:HA	1.94	0.49
4:O:26:ASN:CB	4:O:76:ASN:ND2	2.76	0.49
2:A:151:ASN:OD1	2:A:152:VAL:O	2.30	0.49
3:B:101:LEU:O	3:B:103:GLN:OE1	2.30	0.49
2:C:17:GLU:O	2:C:19:VAL:HG12	2.13	0.49
2:C:54:ILE:HG21	2:C:57:ALA:O	2.12	0.49
2:C:209:SER:O	2:C:210:PRO:C	2.56	0.49
3:D:123:PRO:HG2	3:D:123:PRO:O	2.12	0.49
3:D:150:TYR:OH	3:D:182:LEU:HD22	2.12	0.49
2:E:11:LEU:HD13	2:E:19:VAL:CG2	2.42	0.49
2:G:112:LEU:CD2	2:G:112:LEU:CD1	2.77	0.49
3:H:81:LEU:HD22	3:H:82:GLN:N	2.28	0.49
3:H:170:THR:O	3:H:171:PHE:HB2	2.11	0.49
4:O:25:VAL:CG1	4:O:39:PHE:HE1	2.23	0.49
3:B:73:GLU:C	3:B:73:GLU:CD	2.81	0.49
3:B:146:LEU:HD12	3:B:147:VAL:N	2.27	0.49
2:G:42:TYR:HA	2:G:51:LYS:O	2.12	0.49
3:H:6:GLN:CD	3:H:111:GLY:HA2	2.38	0.49
3:H:123:PRO:HA	3:H:124:PRO:HD2	1.53	0.49
3:H:125:SER:OG	3:H:127:TYR:OH	2.19	0.49
2:A:124:PHE:HE2	3:B:130:ALA:C	2.20	0.49
3:B:182:LEU:HD23	3:B:183:SER:N	2.26	0.49
4:L:51:TYR:CD1	4:L:64:TRP:CH2	3.01	0.49
2:C:41:TRP:HD1	2:C:54:ILE:HB	1.78	0.49
2:E:155:LYS:HB2	2:E:199:THR:OG1	2.12	0.49
3:F:39:GLN:C	3:F:92:ALA:HB1	2.38	0.49
2:G:7:SER:O	2:G:22:SER:N	2.40	0.49
2:G:139:VAL:HA	2:G:154:TRP:HH2	1.77	0.49
3:H:83:ILE:O	3:H:86:LEU:CD1	2.60	0.49
2:A:204:HIS:CE1	2:A:206:THR:HG23	2.47	0.49
3:B:141:VAL:HG13	3:B:142:THR:N	2.27	0.49
3:B:177:SER:O	3:B:179:LEU:N	2.46	0.49
2:C:29:LEU:CD1	2:C:39:LEU:HB2	2.43	0.49
3:D:60:TYR:CZ	3:D:68:PHE:O	2.66	0.49
2:E:148:LYS:HD3	2:E:179:TYR:HE2	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:156:ILE:O	2:E:158:GLY:N	2.45	0.49
2:E:204:HIS:C	2:E:206:THR:N	2.71	0.49
3:F:73:GLU:CG	3:F:76:ALA:HB3	2.43	0.49
4:N:27:LEU:HA	4:N:77:ILE:O	2.13	0.49
4:N:65:THR:CG2	4:N:65:THR:OG1	2.54	0.49
3:H:27:TYR:H	3:H:27:TYR:HD1	1.57	0.49
2:A:7:SER:OG	2:A:8:PRO:CA	2.61	0.49
3:B:52:ASN:HB3	3:B:55:THR:HB	1.95	0.49
3:F:14:PRO:C	3:F:16:GLU:H	2.20	0.49
4:N:51:TYR:H	4:N:51:TYR:HD1	1.59	0.49
3:B:20:ILE:HD11	3:B:81:LEU:HD13	1.94	0.48
3:D:1:GLN:OE1	1:Q:13:ARG:CD	2.52	0.48
2:E:1:ASP:O	2:E:2:ILE:HD12	2.13	0.48
2:E:83:SER:O	2:E:84:VAL:O	2.30	0.48
2:E:211:ILE:O	2:E:211:ILE:HG22	2.12	0.48
2:G:95:LYS:HE2	2:G:102:LEU:HG	1.94	0.48
2:G:141:PHE:O	2:G:142:LEU:HD23	2.12	0.48
3:H:88:ASN:C	3:H:90:ASP:H	2.21	0.48
3:H:176:GLN:O	3:H:178:ASP:N	2.46	0.48
2:A:49:SER:C	2:A:50:PRO:O	2.57	0.48
2:A:128:SER:O	2:A:131:LEU:HB2	2.13	0.48
4:L:41:GLY:C	4:L:46:ALA:HB2	2.38	0.48
2:C:41:TRP:CE3	2:C:94:CYS:HB3	2.48	0.48
3:D:174:VAL:C	3:D:175:LEU:O	2.54	0.48
4:M:32:GLY:C	4:M:33:LYS:O	2.51	0.48
4:N:60:VAL:O	4:N:60:VAL:CG2	2.60	0.48
2:A:42:TYR:HE2	3:B:105:PHE:HB2	1.79	0.48
3:B:13:LYS:O	3:B:16:GLU:HG3	2.12	0.48
3:D:33:SER:HB2	3:D:99:PHE:HB3	1.95	0.48
3:D:61:ALA:C	3:D:63:ASP:H	2.21	0.48
3:D:97:ALA:HB1	3:D:107:VAL:O	2.14	0.48
3:D:107:VAL:C	3:D:108:TRP:CD1	2.91	0.48
2:E:31:ASN:HD22	2:E:33:ARG:N	2.10	0.48
3:F:70:PHE:CE2	3:F:81:LEU:HD23	2.47	0.48
3:F:159:TRP:CH2	3:F:186:VAL:HG11	2.48	0.48
3:F:159:TRP:CH2	3:F:186:VAL:HG12	2.47	0.48
2:G:10:SER:HB3	4:O:38:GLU:HB2	1.94	0.48
2:G:11:LEU:O	2:G:110:LEU:HD12	2.13	0.48
2:G:38:TYR:HD1	2:G:98:TYR:HB2	1.78	0.48
3:H:99:PHE:HB2	3:H:105:PHE:CE1	2.49	0.48
3:H:164:LEU:CD2	3:H:164:LEU:CA	2.91	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:216:VAL:CB	3:H:216:VAL:N	2.70	0.48
3:H:217:PRO:O	3:H:217:PRO:CG	2.58	0.48
1:P:36:LEU:HD22	3:B:102:ARG:HH22	1.77	0.48
2:A:16:GLY:CA	2:A:83:SER:HA	2.44	0.48
2:A:196:ASN:OD1	2:A:196:ASN:O	2.32	0.48
3:B:120:LYS:N	3:B:120:LYS:HE2	2.28	0.48
3:D:53:THR:HG22	3:D:72:LEU:CD2	2.37	0.48
3:D:158:THR:HG1	3:D:201:ASN:HD22	1.54	0.48
4:M:60:VAL:HG22	4:M:60:VAL:O	2.13	0.48
2:E:157:ASP:OD2	2:E:195:HIS:HB3	2.12	0.48
3:F:31:ASP:O	3:F:32:PHE:CD1	2.66	0.48
2:G:30:LEU:CA	2:G:38:TYR:CE1	2.80	0.48
2:G:113:LYS:HA	2:G:146:TYR:CZ	2.48	0.48
2:G:194:ARG:C	2:G:194:ARG:HE	2.21	0.48
3:H:52:ASN:O	3:H:53:THR:C	2.54	0.48
2:A:88:ASP:O	2:A:110:LEU:HD23	2.14	0.48
3:B:126:VAL:HG22	3:B:202:VAL:HG11	1.96	0.48
2:C:87:GLU:HG3	2:C:87:GLU:O	2.13	0.48
3:D:153:GLU:HG2	3:D:180:TYR:CZ	2.49	0.48
3:D:162:GLY:C	3:D:164:LEU:N	2.69	0.48
4:N:77:ILE:CG2	4:N:79:PHE:CE1	2.92	0.48
1:S:12:LYS:HD2	1:S:12:LYS:N	2.28	0.48
3:H:72:LEU:CD2	3:H:74:THR:N	2.74	0.48
2:C:2:ILE:HB	2:C:96:GLN:CD	2.38	0.48
2:C:124:PHE:HA	2:C:125:PRO:HD3	1.71	0.48
2:C:185:LEU:HD11	2:C:187:LEU:HG	1.96	0.48
3:D:92:ALA:HB3	3:D:94:TYR:CE2	2.48	0.48
2:E:102:LEU:HB2	3:F:47:TRP:CG	2.47	0.48
3:F:6:GLN:C	3:F:7:SER:O	2.53	0.48
1:S:24:PHE:CZ	3:H:32:PHE:HZ	2.31	0.48
1:S:29:GLN:NE2	3:H:52:ASN:C	2.72	0.48
2:G:19:VAL:HG11	2:G:110:LEU:HD21	1.96	0.48
2:G:53:LEU:HB2	2:G:54:ILE:CD1	2.31	0.48
2:G:93:TYR:CE1	3:H:45:LEU:HD21	2.48	0.48
2:G:219:GLU:OE2	3:H:134:ALA:HB2	2.13	0.48
3:H:8:GLY:O	3:H:112:THR:CG2	2.62	0.48
2:A:2:ILE:HG22	2:A:4:MET:SD	2.54	0.48
3:B:97:ALA:CB	3:B:108:TRP:HA	2.43	0.48
3:B:141:VAL:O	3:B:187:THR:HG23	2.13	0.48
3:B:153:GLU:HB3	3:B:154:PRO:CA	2.43	0.48
4:M:65:THR:CG2	4:M:65:THR:N	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:204:HIS:ND1	2:E:204:HIS:C	2.67	0.48
3:F:166:SER:HB2	5:F:239:HOH:O	2.13	0.48
2:G:67:ARG:C	2:G:69:THR:H	2.21	0.48
2:G:125:PRO:C	2:G:126:PRO:O	2.47	0.48
2:G:161:ARG:O	2:G:162:GLN:HB2	2.13	0.48
3:H:188:VAL:CG2	3:H:188:VAL:CA	2.83	0.48
2:A:65:PRO:C	2:A:67:ARG:N	2.61	0.48
2:A:72:GLY:HA3	2:A:77:PHE:HA	1.96	0.48
2:A:130:GLN:NE2	3:B:148:LYS:HD3	2.28	0.48
2:A:188:THR:OG1	2:A:191:GLU:CB	2.61	0.48
3:B:149:GLY:C	3:B:179:LEU:CD2	2.86	0.48
2:C:99:ILE:HA	2:C:100:PRO:HD2	1.63	0.48
3:D:168:VAL:C	3:D:169:HIS:ND1	2.72	0.48
1:Q:25:PRO:HG3	1:Q:39:ARG:CD	2.44	0.48
2:E:24:LYS:CE	2:E:76:ASP:CG	2.86	0.48
2:E:188:THR:OG1	2:E:189:LYS:N	2.39	0.48
3:H:10:GLU:OE2	3:H:10:GLU:CA	2.54	0.48
3:H:20:ILE:HD13	3:H:36:TRP:HH2	1.79	0.48
3:B:48:MET:HE1	3:B:68:PHE:CD1	2.48	0.48
3:B:147:VAL:HB	3:B:182:LEU:O	2.14	0.48
4:L:47:THR:HG22	4:L:48:ALA:N	2.25	0.48
4:L:55:ALA:HA	4:L:64:TRP:NE1	2.29	0.48
2:C:144:ASN:HA	2:C:178:THR:CG2	2.44	0.48
2:G:113:LYS:HG2	2:G:146:TYR:HH	1.76	0.48
2:G:202:ALA:N	2:G:211:ILE:O	2.46	0.48
2:A:10:SER:HA	2:A:109:LYS:HB3	1.96	0.48
2:A:34:THR:HG21	2:A:36:LYS:HB2	1.96	0.48
2:C:42:TYR:HA	2:C:51:LYS:O	2.13	0.48
2:C:196:ASN:O	2:C:197:SER:C	2.56	0.48
2:C:205:LYS:C	2:C:207:SER:N	2.71	0.48
3:D:1:GLN:HE22	1:Q:13:ARG:CD	2.27	0.48
3:D:35:HIS:CD2	3:D:50:TRP:HB2	2.49	0.48
3:D:35:HIS:ND1	3:D:50:TRP:HB3	2.29	0.48
3:F:57:GLU:N	3:F:57:GLU:CD	2.71	0.48
3:F:101:LEU:CD2	3:F:101:LEU:HG	2.19	0.48
4:N:19:GLU:O	4:N:20:GLU:O	2.32	0.48
1:S:14:ASN:N	2:G:62:SER:CB	2.72	0.48
2:G:6:GLN:HE22	2:G:108:THR:H	1.62	0.48
2:G:84:VAL:HG11	2:G:110:LEU:HD21	1.96	0.48
2:G:201:GLU:HG2	2:G:212:VAL:HG12	1.92	0.48
3:H:169:HIS:CB	3:H:171:PHE:CE1	2.97	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:185:LEU:HD12	2:A:186:THR:H	1.78	0.47
2:A:190:ASP:HA	2:A:193:GLU:HB2	1.95	0.47
3:B:41:PRO:O	3:B:43:LYS:N	2.47	0.47
3:B:126:VAL:HG21	3:B:211:VAL:CG2	2.44	0.47
2:C:70:GLY:O	2:C:71:ARG:HG3	2.14	0.47
2:C:127:SER:O	2:C:128:SER:C	2.53	0.47
3:D:176:GLN:C	3:D:176:GLN:CD	2.81	0.47
4:N:68:LEU:HG	4:N:75:MET:HE2	1.96	0.47
1:S:23:LYS:HD3	1:S:24:PHE:HB2	1.95	0.47
2:A:6:GLN:HE21	2:A:105:GLY:HA3	1.79	0.47
2:A:196:ASN:HD21	2:A:218:ASN:N	2.12	0.47
2:A:200:CYS:N	2:A:213:LYS:O	2.46	0.47
3:B:159:TRP:HB2	3:B:164:LEU:HB2	1.97	0.47
4:L:58:ALA:O	4:L:60:VAL:N	2.47	0.47
4:L:69:GLU:HG2	4:L:70:ASP:H	1.78	0.47
3:D:52:ASN:ND2	3:D:54:GLU:H	2.11	0.47
3:D:97:ALA:HB2	3:D:108:TRP:CA	2.44	0.47
3:D:207:SER:O	3:D:208:SER:HB2	2.13	0.47
4:M:39:PHE:O	4:M:40:LYS:C	2.57	0.47
2:E:6:GLN:NE2	2:E:41:TRP:CZ3	2.79	0.47
2:E:179:TYR:C	2:E:180:SER:HG	2.22	0.47
1:S:9:ARG:O	1:S:10:LYS:O	2.32	0.47
1:S:35:TYR:O	1:S:36:LEU:CB	2.58	0.47
2:G:152:VAL:CG1	2:G:153:LYS:H	2.24	0.47
2:G:190:ASP:O	2:G:194:ARG:HB2	2.14	0.47
3:B:129:LEU:O	3:B:144:GLY:N	2.26	0.47
2:C:96:GLN:O	2:C:102:LEU:HA	2.14	0.47
1:Q:18:ARG:N	1:Q:19:PRO:HD2	2.29	0.47
1:Q:33:GLY:CA	1:Q:36:LEU:HD22	2.44	0.47
2:E:167:ASN:OD1	2:E:183:SER:HA	2.14	0.47
2:E:196:ASN:O	2:E:196:ASN:CG	2.57	0.47
3:F:156:THR:CB	3:F:156:THR:C	2.80	0.47
4:N:40:LYS:CG	4:N:41:GLY:N	2.77	0.47
2:G:19:VAL:HG13	2:G:81:ILE:CB	2.42	0.47
2:G:19:VAL:CG2	2:G:20:THR:N	2.76	0.47
2:G:50:PRO:HG2	3:H:108:TRP:CH2	2.49	0.47
2:G:166:LEU:CD1	2:G:166:LEU:CD2	2.84	0.47
3:H:2:ILE:HG12	3:H:98:ARG:NH1	2.28	0.47
3:H:94:TYR:HE2	3:H:114:VAL:HG11	1.79	0.47
2:A:190:ASP:C	2:A:191:GLU:CA	2.75	0.47
4:L:23:ILE:N	4:L:39:PHE:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:32:GLY:O	4:M:33:LYS:C	2.56	0.47
2:E:12:ALA:HB3	4:N:36:THR:HB	1.96	0.47
2:G:10:SER:HB3	4:O:38:GLU:OE2	2.14	0.47
2:G:43:GLN:HB2	2:G:92:TYR:CE2	2.50	0.47
2:G:186:THR:O	2:G:187:LEU:HG	2.14	0.47
3:H:150:TYR:CD2	3:H:180:TYR:HB3	2.49	0.47
3:H:150:TYR:OH	3:H:182:LEU:HD23	2.14	0.47
3:H:153:GLU:N	3:H:154:PRO:CD	2.76	0.47
2:A:6:GLN:HG3	2:A:105:GLY:HA3	1.96	0.47
2:A:113:LYS:O	2:A:114:ARG:CB	2.60	0.47
3:B:102:ARG:O	3:B:103:GLN:CB	2.61	0.47
3:D:125:SER:O	3:D:126:VAL:CG2	2.63	0.47
2:E:87:GLU:HG2	2:E:87:GLU:O	2.14	0.47
2:E:130:GLN:HE21	2:E:136:ALA:CA	2.26	0.47
3:F:73:GLU:HG2	3:F:76:ALA:HB3	1.96	0.47
2:G:52:VAL:CG2	2:G:53:LEU:H	2.26	0.47
2:G:121:VAL:HA	2:G:141:PHE:O	2.15	0.47
2:G:202:ALA:HB3	2:G:211:ILE:HG23	1.96	0.47
3:H:46:ASN:O	3:H:48:MET:N	2.48	0.47
4:O:31:ASP:OD2	4:O:33:LYS:CG	2.62	0.47
2:A:128:SER:O	2:A:129:GLU:O	2.32	0.47
3:B:62:ASP:C	3:B:64:PHE:N	2.71	0.47
3:B:216:VAL:CG1	3:B:217:PRO:HD2	2.44	0.47
2:C:192:TYR:CD1	2:C:198:TYR:CZ	3.03	0.47
3:D:132:GLY:C	3:D:134:ALA:N	2.73	0.47
4:M:47:THR:C	4:M:49:GLU:N	2.71	0.47
2:E:36:LYS:HA	2:E:36:LYS:CE	2.45	0.47
2:E:85:GLN:OE1	5:E:226:HOH:O	2.20	0.47
2:E:131:LEU:C	2:E:133:SER:N	2.66	0.47
2:E:137:SER:HA	2:E:186:THR:HA	1.96	0.47
3:F:149:GLY:HA2	3:F:180:TYR:O	2.15	0.47
2:G:189:LYS:HE3	2:G:193:GLU:HG3	1.96	0.47
3:H:181:THR:OG1	3:H:182:LEU:N	2.43	0.47
1:P:40:ARG:HH11	3:F:98:ARG:NH1	2.13	0.47
2:A:127:SER:CB	3:B:128:PRO:HD2	2.44	0.47
2:A:216:ASN:C	2:A:218:ASN:N	2.71	0.47
3:B:9:PRO:O	3:B:9:PRO:CG	2.55	0.47
3:B:33:SER:HA	3:B:53:THR:OG1	2.15	0.47
3:B:143:LEU:HB2	3:B:186:VAL:HG23	1.96	0.47
3:B:182:LEU:CD2	3:B:183:SER:N	2.78	0.47
2:C:125:PRO:O	2:C:125:PRO:HD2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:124:PRO:HB3	3:D:150:TYR:HB3	1.97	0.47
3:D:150:TYR:CE2	3:D:155:VAL:HG21	2.49	0.47
4:M:29:PHE:HZ	4:M:57:HIS:CE1	2.32	0.47
2:E:16:GLY:CA	2:E:83:SER:HA	2.45	0.47
2:E:18:LYS:CA	2:E:82:SER:HA	2.32	0.47
2:E:68:PHE:CD1	2:E:81:ILE:CG1	2.97	0.47
2:E:77:PHE:N	2:E:77:PHE:CD2	2.82	0.47
2:E:111:GLU:HG2	2:E:179:TYR:OH	2.14	0.47
2:E:113:LYS:HA	2:E:146:TYR:OH	2.15	0.47
3:F:198:VAL:O	3:F:215:ILE:HG12	2.14	0.47
1:S:11:THR:HG22	1:S:12:LYS:HZ2	1.80	0.47
1:S:31:VAL:HB	3:H:50:TRP:CE3	2.50	0.47
1:S:40:ARG:CG	1:S:41:GLY:H	2.27	0.47
2:G:53:LEU:CB	2:G:54:ILE:CD1	2.82	0.47
2:G:126:PRO:HB3	2:G:136:ALA:HB1	1.97	0.47
5:G:224:HOH:O	3:H:167:GLY:CA	2.57	0.47
3:H:72:LEU:HD21	3:H:74:THR:HG1	1.78	0.47
3:H:128:PRO:C	3:H:129:LEU:HD23	2.39	0.47
3:H:149:GLY:O	3:H:179:LEU:HG	2.14	0.47
4:O:51:TYR:O	4:O:54:ALA:HB3	2.14	0.47
2:A:28:SER:C	2:A:29:LEU:HD23	2.36	0.47
2:A:36:LYS:HE3	2:A:56:TRP:CE3	2.50	0.47
2:A:76:ASP:CG	2:A:76:ASP:CA	2.80	0.47
2:C:43:GLN:CD	2:C:45:LYS:NZ	2.73	0.47
2:E:58:SER:HB2	2:E:70:GLY:O	2.14	0.47
2:E:62:SER:C	2:E:64:VAL:H	2.23	0.47
1:S:42:PRO:O	1:S:43:ARG:O	2.33	0.47
2:G:149:ASP:O	2:G:204:HIS:CD2	2.68	0.47
2:G:167:ASN:HD22	2:G:167:ASN:N	1.97	0.47
3:H:149:GLY:C	3:H:150:TYR:O	2.58	0.47
4:O:23:ILE:O	4:O:23:ILE:HG22	2.06	0.47
4:O:32:GLY:O	4:O:33:LYS:O	2.33	0.47
4:O:69:GLU:HG3	4:O:70:ASP:OD1	2.14	0.47
3:B:143:LEU:HD13	3:B:215:ILE:HG21	1.97	0.47
3:D:10:GLU:HA	3:D:10:GLU:OE2	2.14	0.47
3:D:170:THR:CG2	3:D:170:THR:HB	2.21	0.47
1:Q:33:GLY:HA2	1:Q:36:LEU:HD22	1.97	0.47
1:S:34:VAL:CG2	2:G:31:ASN:HB2	2.44	0.47
2:G:19:VAL:HG21	2:G:110:LEU:HD13	1.96	0.47
2:G:124:PHE:HB3	2:G:125:PRO:HD2	1.96	0.47
3:H:173:ALA:CB	3:H:180:TYR:CE1	2.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:28:ILE:N	4:O:28:ILE:HD12	2.30	0.47
4:O:29:PHE:HD2	4:O:61:ASN:CG	2.23	0.47
2:A:180:SER:OG	3:B:169:HIS:CE1	2.68	0.47
3:B:127:TYR:O	3:B:145:CYS:HA	2.15	0.47
3:D:141:VAL:HG13	3:D:142:THR:N	2.30	0.47
3:D:156:THR:HG23	3:D:203:ALA:CB	2.42	0.47
2:E:89:GLN:OE1	2:E:112:LEU:HB2	2.15	0.47
2:E:96:GLN:OE1	2:E:99:ILE:O	2.33	0.47
2:E:127:SER:O	2:E:131:LEU:HG	2.15	0.47
3:F:189:PRO:HB2	3:F:192:THR:HG23	1.97	0.47
2:G:16:GLY:C	2:G:83:SER:HA	2.40	0.47
3:H:72:LEU:HD23	3:H:72:LEU:C	2.40	0.47
2:A:17:GLU:OE1	4:L:35:GLN:CG	2.63	0.46
2:A:68:PHE:CD1	2:A:81:ILE:HG12	2.51	0.46
2:A:155:LYS:HA	2:A:159:SER:O	2.15	0.46
3:B:124:PRO:HB3	3:B:150:TYR:HB3	1.97	0.46
3:B:177:SER:O	3:B:179:LEU:HB2	2.15	0.46
4:L:44:GLU:C	4:L:46:ALA:N	2.71	0.46
2:C:31:ASN:HB2	2:C:98:TYR:OH	2.15	0.46
2:C:67:ARG:HG3	2:C:68:PHE:CD2	2.50	0.46
2:C:187:LEU:HB3	2:C:188:THR:H	1.26	0.46
3:D:55:THR:HG23	3:D:56:GLY:H	1.80	0.46
3:D:93:THR:HG22	3:D:94:TYR:N	2.27	0.46
3:D:218:ARG:HH21	3:D:218:ARG:HG2	1.81	0.46
4:M:21:VAL:HG12	4:M:22:THR:N	2.28	0.46
4:M:74:HIS:O	4:M:75:MET:HB2	2.15	0.46
2:E:18:LYS:CG	2:E:19:VAL:H	2.25	0.46
2:E:91:VAL:HG13	2:E:108:THR:O	2.15	0.46
2:E:215:PHE:C	2:E:215:PHE:HD1	2.18	0.46
3:F:101:LEU:O	3:F:103:GLN:OE1	2.33	0.46
3:F:102:ARG:NH2	3:F:102:ARG:HG2	2.29	0.46
3:H:30:THR:OG1	3:H:31:ASP:N	2.48	0.46
3:H:34:MET:HB3	3:H:51:VAL:HG21	1.97	0.46
3:H:130:ALA:HB1	3:H:131:PRO:HD2	1.96	0.46
3:H:186:VAL:HG22	3:H:187:THR:H	1.79	0.46
2:A:102:LEU:HB2	3:B:47:TRP:CG	2.49	0.46
3:B:130:ALA:HB1	3:B:131:PRO:HD2	1.96	0.46
3:B:136:GLN:NE2	3:B:136:GLN:N	2.64	0.46
4:L:43:PHE:O	4:L:44:GLU:O	2.34	0.46
2:C:144:ASN:HA	2:C:178:THR:HG22	1.97	0.46
3:D:11:LEU:HD13	3:D:11:LEU:C	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:43:ARG:HG2	1:Q:44:LEU:HD12	1.97	0.46
2:E:45:LYS:CG	2:E:90:ALA:HB2	2.44	0.46
3:F:86:LEU:HD13	3:F:116:VAL:CG2	2.45	0.46
3:F:143:LEU:N	3:F:186:VAL:O	2.47	0.46
3:F:175:LEU:HB2	3:F:180:TYR:HE1	1.79	0.46
3:F:179:LEU:O	3:F:180:TYR:C	2.58	0.46
1:S:12:LYS:HD2	1:S:12:LYS:H	1.80	0.46
2:G:89:GLN:NE2	2:G:90:ALA:N	2.63	0.46
3:H:20:ILE:HD11	3:H:36:TRP:CH2	2.49	0.46
3:H:177:SER:C	3:H:179:LEU:N	2.71	0.46
2:A:21:MET:CB	2:A:108:THR:HG21	2.45	0.46
2:A:114:ARG:NE	2:A:146:TYR:CB	2.78	0.46
2:A:139:VAL:HB	3:B:129:LEU:HD21	1.96	0.46
3:B:31:ASP:HA	2:E:33:ARG:HD2	1.97	0.46
3:B:36:TRP:CD2	3:B:81:LEU:HD12	2.50	0.46
3:B:93:THR:HG23	3:B:113:THR:HA	1.97	0.46
4:L:55:ALA:HA	4:L:64:TRP:HE1	1.80	0.46
2:C:61:GLU:OE2	3:D:104:TYR:OH	2.27	0.46
3:D:176:GLN:C	3:D:177:SER:HG	2.22	0.46
3:D:189:PRO:HB2	3:D:192:THR:CG2	2.38	0.46
2:G:112:LEU:HA	2:G:112:LEU:HD12	1.28	0.46
2:G:113:LYS:NZ	4:O:34:ILE:HG13	2.31	0.46
3:H:201:ASN:CB	3:H:212:ASP:OD1	2.63	0.46
2:A:2:ILE:HG21	2:A:96:GLN:HG2	1.98	0.46
2:A:136:ALA:N	2:A:187:LEU:O	2.44	0.46
3:B:12:LYS:O	3:B:116:VAL:HA	2.16	0.46
3:B:175:LEU:HB2	3:B:180:TYR:HE1	1.65	0.46
3:D:161:SER:N	3:D:201:ASN:HD21	2.14	0.46
3:D:182:LEU:N	3:D:182:LEU:HD23	2.31	0.46
2:E:42:TYR:OH	2:E:95:LYS:CE	2.63	0.46
2:E:95:LYS:HD3	2:E:104:PHE:CE2	2.46	0.46
2:E:96:GLN:O	2:E:96:GLN:HG3	2.15	0.46
2:E:128:SER:O	2:E:131:LEU:HG	2.16	0.46
2:E:151:ASN:ND2	2:E:152:VAL:N	2.63	0.46
2:E:161:ARG:HH21	2:E:161:ARG:HG3	1.80	0.46
3:F:12:LYS:O	3:F:116:VAL:HA	2.16	0.46
3:F:38:ASN:OD1	3:F:39:GLN:N	2.46	0.46
4:N:31:ASP:OD1	4:N:33:LYS:HD3	2.14	0.46
2:G:110:LEU:C	2:G:111:GLU:O	2.59	0.46
2:G:195:HIS:HB2	2:G:198:TYR:OH	2.15	0.46
3:B:179:LEU:CD1	3:B:179:LEU:CD2	2.88	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:71:SER:HB2	3:F:80:TYR:HD2	1.81	0.46
3:F:131:PRO:O	3:F:132:GLY:C	2.48	0.46
3:F:176:GLN:O	3:F:177:SER:C	2.58	0.46
2:G:93:TYR:CE1	3:H:45:LEU:HD23	2.50	0.46
2:G:93:TYR:CG	3:H:45:LEU:HD23	2.50	0.46
2:G:173:ASP:OD2	2:G:175:LYS:N	2.32	0.46
3:H:152:PRO:O	3:H:154:PRO:N	2.48	0.46
2:A:2:ILE:O	2:A:3:VAL:C	2.57	0.46
2:A:34:THR:O	2:A:35:ARG:CB	2.60	0.46
2:A:86:ALA:C	2:A:88:ASP:N	2.71	0.46
3:B:174:VAL:O	3:B:180:TYR:HD1	1.99	0.46
2:C:2:ILE:HG12	2:C:96:GLN:NE2	2.31	0.46
2:C:125:PRO:O	2:C:125:PRO:CD	2.60	0.46
1:Q:30:ILE:CD1	1:Q:36:LEU:HB2	2.40	0.46
4:M:28:ILE:CD1	4:M:76:ASN:HB3	2.46	0.46
2:E:130:GLN:HE22	2:E:137:SER:H	1.55	0.46
3:F:74:THR:CG2	3:F:74:THR:CA	2.86	0.46
3:F:216:VAL:O	3:F:217:PRO:C	2.58	0.46
1:S:37:LEU:HA	1:S:37:LEU:HD13	1.64	0.46
2:G:124:PHE:CE1	2:G:141:PHE:CD2	2.96	0.46
3:H:83:ILE:O	3:H:84:ASN:C	2.54	0.46
3:H:119:ALA:HB3	3:H:151:PHE:CE2	2.50	0.46
4:L:51:TYR:CE1	4:L:64:TRP:CH2	3.03	0.46
3:D:150:TYR:HD2	3:D:204:HIS:CD2	2.34	0.46
3:D:151:PHE:CB	3:D:152:PRO:CD	2.92	0.46
2:E:144:ASN:HD21	3:F:169:HIS:HE1	1.60	0.46
3:F:20:ILE:CG1	3:F:21:SER:N	2.78	0.46
3:F:93:THR:CG2	3:F:113:THR:HG23	2.45	0.46
2:G:39:LEU:O	2:G:40:ALA:HB2	2.15	0.46
2:G:54:ILE:CD1	2:G:54:ILE:HG23	2.46	0.46
2:G:155:LYS:HE2	2:G:201:GLU:CD	2.39	0.46
4:O:25:VAL:HG23	4:O:77:ILE:HG13	1.98	0.46
2:A:92:TYR:N	2:A:92:TYR:CD1	2.83	0.46
3:B:31:ASP:O	3:B:32:PHE:CD2	2.67	0.46
3:B:120:LYS:N	3:B:120:LYS:CE	2.79	0.46
4:L:76:ASN:O	4:L:77:ILE:C	2.59	0.46
3:D:14:PRO:O	3:D:14:PRO:HG2	2.15	0.46
2:E:188:THR:HG23	2:E:191:GLU:HB3	1.93	0.46
3:F:6:GLN:O	3:F:7:SER:C	2.59	0.46
3:F:64:PHE:HE2	5:F:228:HOH:O	1.98	0.46
2:G:84:VAL:CA	2:G:88:ASP:OD1	2.57	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:42:THR:O	4:O:46:ALA:N	2.48	0.46
2:A:7:SER:OG	2:A:8:PRO:N	2.46	0.46
2:A:17:GLU:OE1	4:L:35:GLN:HG2	2.16	0.46
4:L:67:ASP:OD1	4:L:67:ASP:O	2.34	0.46
2:C:17:GLU:N	2:C:83:SER:HA	2.31	0.46
2:C:49:SER:O	2:C:50:PRO:O	2.33	0.46
2:E:55:TYR:CE2	2:E:59:THR:CG2	2.99	0.46
3:F:211:VAL:HG22	3:F:212:ASP:C	2.40	0.46
2:G:43:GLN:NE2	2:G:45:LYS:HE3	2.31	0.46
3:H:20:ILE:CD1	3:H:80:TYR:HA	2.46	0.46
3:H:156:THR:O	3:H:202:VAL:HA	2.15	0.46
2:A:89:GLN:HE22	2:A:172:GLN:C	2.24	0.46
2:A:156:ILE:O	2:A:159:SER:HB2	2.16	0.46
2:A:199:THR:CG2	2:A:199:THR:CA	2.85	0.46
3:B:126:VAL:CG2	3:B:202:VAL:HG11	2.46	0.46
2:C:56:TRP:CG	2:C:56:TRP:CA	2.91	0.46
3:D:48:MET:HE1	3:D:94:TYR:CD1	2.51	0.46
3:D:133:SER:O	3:D:135:ALA:N	2.40	0.46
3:D:159:TRP:CZ3	3:D:215:ILE:HD11	2.43	0.46
2:G:65:PRO:C	2:G:67:ARG:H	2.17	0.46
2:G:89:GLN:O	2:G:90:ALA:HB2	2.16	0.46
2:G:194:ARG:O	2:G:194:ARG:HD3	2.16	0.46
3:H:11:LEU:HD12	3:H:152:PRO:HG3	1.98	0.46
4:O:61:ASN:HB3	4:O:79:PHE:CE2	2.51	0.46
2:A:60:ARG:HH12	2:A:68:PHE:N	2.12	0.45
2:A:97:ALA:C	2:A:99:ILE:N	2.68	0.45
3:F:68:PHE:CD2	3:F:68:PHE:N	2.76	0.45
4:N:49:GLU:OE1	4:N:49:GLU:CA	2.60	0.45
1:S:17:ARG:O	1:S:17:ARG:CG	2.64	0.45
2:G:52:VAL:HG22	2:G:54:ILE:N	2.31	0.45
3:H:27:TYR:CD2	3:H:28:THR:O	2.69	0.45
3:H:55:THR:CA	3:H:55:THR:CG2	2.88	0.45
4:O:52:ARG:CB	4:O:52:ARG:CD	2.86	0.45
2:A:60:ARG:NH2	2:A:66:ASP:O	2.49	0.45
2:A:89:GLN:CB	2:A:89:GLN:CD	2.81	0.45
2:C:125:PRO:HG3	2:C:215:PHE:CE1	2.50	0.45
2:C:150:ILE:HG12	2:C:151:ASN:N	2.31	0.45
3:D:170:THR:HA	3:D:184:SER:OG	2.16	0.45
3:D:201:ASN:HB3	3:D:212:ASP:OD1	2.16	0.45
4:M:77:ILE:HD12	4:M:77:ILE:HG23	1.74	0.45
2:E:98:TYR:CD2	2:E:99:ILE:HG12	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:189:LYS:HB3	2:E:190:ASP:OD2	2.16	0.45
3:F:175:LEU:HD23	5:F:224:HOH:O	2.15	0.45
2:G:62:SER:C	2:G:64:VAL:H	2.25	0.45
2:G:132:THR:H	2:G:132:THR:HG23	1.48	0.45
2:G:190:ASP:HA	2:G:193:GLU:HB2	1.97	0.45
3:H:46:ASN:O	3:H:47:TRP:C	2.55	0.45
3:H:142:THR:HG23	3:H:186:VAL:O	2.15	0.45
3:B:20:ILE:HG21	3:B:112:THR:HG21	1.99	0.45
3:B:31:ASP:CG	2:E:33:ARG:HH11	2.23	0.45
3:B:69:ALA:C	3:B:70:PHE:CD2	2.94	0.45
2:C:54:ILE:C	2:C:55:TYR:HD1	2.23	0.45
2:C:70:GLY:C	2:C:71:ARG:HG3	2.42	0.45
3:D:48:MET:HE2	3:D:81:LEU:HD11	1.95	0.45
3:D:108:TRP:N	3:D:108:TRP:HD1	2.10	0.45
3:D:153:GLU:N	3:D:154:PRO:CD	2.78	0.45
2:E:11:LEU:CD1	2:E:11:LEU:CB	2.84	0.45
2:E:65:PRO:O	2:E:66:ASP:C	2.59	0.45
1:S:40:ARG:HG2	1:S:41:GLY:N	2.30	0.45
3:H:37:VAL:C	3:H:48:MET:HG3	2.39	0.45
4:O:48:ALA:HB1	4:O:52:ARG:HD3	1.99	0.45
2:A:6:GLN:NE2	2:A:105:GLY:C	2.70	0.45
2:A:33:ARG:CA	2:A:33:ARG:CG	2.87	0.45
3:B:150:TYR:CZ	3:B:180:TYR:HB3	2.52	0.45
3:B:204:HIS:C	3:B:206:ALA:N	2.69	0.45
2:C:152:VAL:HG13	2:C:153:LYS:H	1.81	0.45
2:C:161:ARG:HH12	2:C:187:LEU:HD21	1.82	0.45
3:D:162:GLY:O	3:D:163:SER:C	2.57	0.45
3:D:170:THR:O	3:D:171:PHE:C	2.59	0.45
3:F:34:MET:HG3	3:F:35:HIS:H	1.79	0.45
3:F:34:MET:HE2	3:F:34:MET:HB2	1.76	0.45
2:G:61:GLU:O	2:G:64:VAL:HG12	2.16	0.45
2:G:196:ASN:HA	2:G:217:ARG:HB2	1.97	0.45
3:H:73:GLU:O	3:H:75:SER:N	2.50	0.45
4:O:60:VAL:HG13	4:O:61:ASN:N	2.31	0.45
2:A:173:ASP:CG	2:A:174:SER:H	2.25	0.45
3:B:89:GLU:CD	3:B:89:GLU:N	2.75	0.45
3:B:199:THR:HG22	3:B:214:LYS:HB2	1.99	0.45
3:D:193:TRP:HA	3:D:195:SER:H	1.81	0.45
4:M:27:LEU:HB3	4:M:29:PHE:CE1	2.51	0.45
2:E:54:ILE:HG21	2:E:58:SER:HA	1.98	0.45
2:E:54:ILE:HG21	2:E:70:GLY:HA3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:13:LYS:O	3:F:14:PRO:C	2.58	0.45
3:F:35:HIS:CD2	3:F:50:TRP:HB2	2.52	0.45
3:F:202:VAL:H	3:F:202:VAL:HG13	1.46	0.45
1:S:32:GLY:O	2:G:97:ALA:HB1	2.16	0.45
4:O:47:THR:O	4:O:51:TYR:CD2	2.69	0.45
2:A:97:ALA:O	2:A:98:TYR:C	2.57	0.45
2:A:127:SER:O	2:A:128:SER:C	2.59	0.45
3:B:20:ILE:HG21	3:B:20:ILE:HD13	1.37	0.45
3:B:146:LEU:HD21	3:B:148:LYS:HG3	1.99	0.45
3:B:211:VAL:O	3:B:211:VAL:HG22	2.11	0.45
2:C:18:LYS:HE3	4:M:57:HIS:HD2	1.82	0.45
2:C:42:TYR:CE2	3:D:108:TRP:HZ2	2.33	0.45
3:D:15:GLY:C	3:D:86:LEU:H	2.24	0.45
2:E:24:LYS:CE	2:E:24:LYS:CG	2.83	0.45
3:F:139:SER:O	3:F:190:SER:HB3	2.16	0.45
2:G:145:PHE:N	2:G:178:THR:HB	2.31	0.45
3:H:92:ALA:O	3:H:114:VAL:HG12	2.17	0.45
3:H:99:PHE:CZ	3:H:103:GLN:HA	2.52	0.45
1:P:29:GLN:C	1:P:30:ILE:CG1	2.89	0.45
2:A:11:LEU:HD23	2:A:11:LEU:HA	1.68	0.45
2:A:188:THR:OG1	2:A:191:GLU:CG	2.64	0.45
3:B:149:GLY:HA2	3:B:179:LEU:HD22	1.98	0.45
2:C:84:VAL:O	2:C:85:GLN:HG2	2.17	0.45
3:D:138:ASN:CG	3:D:139:SER:N	2.56	0.45
1:Q:25:PRO:HG3	1:Q:39:ARG:CZ	2.46	0.45
2:E:53:LEU:O	2:E:60:ARG:HA	2.17	0.45
2:G:8:PRO:HG2	2:G:11:LEU:HG	1.99	0.45
2:A:187:LEU:HD11	2:A:192:TYR:HD1	1.80	0.45
3:B:20:ILE:HG22	3:B:112:THR:HG21	1.99	0.45
3:B:170:THR:HA	3:B:184:SER:CB	2.46	0.45
2:C:19:VAL:HG11	2:C:84:VAL:CG1	2.47	0.45
2:C:146:TYR:CG	2:C:147:PRO:CA	2.97	0.45
2:C:192:TYR:HA	2:C:198:TYR:OH	2.17	0.45
2:C:204:HIS:CE1	2:C:206:THR:CG2	2.99	0.45
3:F:7:SER:CA	3:F:21:SER:OG	2.65	0.45
2:G:21:MET:HG2	2:G:108:THR:HG21	1.98	0.45
2:C:52:VAL:HG11	3:D:104:TYR:HE1	1.81	0.45
3:D:29:PHE:O	3:D:29:PHE:CG	2.70	0.45
3:D:35:HIS:CG	3:D:50:TRP:HB3	2.52	0.45
2:E:11:LEU:HA	4:N:36:THR:O	2.16	0.45
2:E:115:ALA:O	2:E:116:ASP:O	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:6:LYS:C	1:S:7:PRO:CG	2.90	0.45
2:G:21:MET:HG2	2:G:108:THR:CB	2.46	0.45
3:H:40:ALA:O	3:H:43:LYS:CB	2.63	0.45
3:H:151:PHE:CB	3:H:152:PRO:HD3	2.38	0.45
4:O:25:VAL:HG11	4:O:39:PHE:CE1	2.45	0.45
3:B:70:PHE:CD2	3:B:70:PHE:N	2.83	0.45
3:B:122:THR:O	3:B:150:TYR:HA	2.17	0.45
3:D:6:GLN:OE1	3:D:96:CYS:SG	2.75	0.45
3:D:152:PRO:O	3:D:154:PRO:HG2	2.17	0.45
2:E:45:LYS:O	2:E:46:PRO:O	2.35	0.45
2:E:68:PHE:CE1	2:E:81:ILE:CG1	3.00	0.45
2:G:173:ASP:HB3	2:G:176:ASP:HB3	1.99	0.45
3:H:98:ARG:O	3:H:99:PHE:C	2.56	0.45
1:P:38:PRO:HG2	1:P:38:PRO:O	2.17	0.44
2:A:39:LEU:HB3	2:A:57:ALA:HB2	1.99	0.44
2:A:61:GLU:HB3	2:A:64:VAL:CG2	2.47	0.44
2:C:77:PHE:C	2:C:78:THR:CG2	2.90	0.44
3:D:43:LYS:HE3	3:D:43:LYS:CA	2.47	0.44
1:Q:9:ARG:C	1:Q:10:LYS:O	2.57	0.44
4:M:25:VAL:HA	4:M:75:MET:CB	2.32	0.44
2:E:3:VAL:HG12	2:E:4:MET:N	2.32	0.44
2:E:27:GLN:C	2:E:28:SER:O	2.59	0.44
2:E:148:LYS:HA	2:E:179:TYR:CD2	2.52	0.44
2:E:194:ARG:NH2	2:E:195:HIS:NE2	2.64	0.44
4:N:67:ASP:OD2	4:N:76:ASN:ND2	2.49	0.44
1:S:11:THR:CG2	1:S:12:LYS:HD2	2.47	0.44
2:G:190:ASP:O	2:G:194:ARG:N	2.49	0.44
4:O:79:PHE:HD1	4:O:79:PHE:N	2.15	0.44
2:A:11:LEU:O	2:A:111:GLU:N	2.50	0.44
2:A:156:ILE:CG2	2:A:195:HIS:CD2	2.78	0.44
2:A:205:LYS:CB	2:A:205:LYS:CD	2.83	0.44
2:C:13:VAL:CG2	2:C:14:SER:N	2.80	0.44
2:C:14:SER:CA	2:C:113:LYS:HB2	2.35	0.44
3:D:97:ALA:HB2	3:D:108:TRP:CG	2.52	0.44
3:D:150:TYR:N	3:D:150:TYR:CD1	2.85	0.44
1:Q:37:LEU:HB3	1:Q:38:PRO:CD	2.45	0.44
1:Q:40:ARG:HD3	1:Q:45:GLY:O	2.17	0.44
2:E:95:LYS:HE2	3:F:105:PHE:CE2	2.51	0.44
3:F:40:ALA:CB	3:F:41:PRO:CD	2.80	0.44
3:F:54:GLU:C	3:F:54:GLU:CD	2.84	0.44
4:N:27:LEU:HB3	4:N:77:ILE:HB	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:40:ALA:CB	3:H:43:LYS:HG3	2.44	0.44
3:H:129:LEU:CG	3:H:145:CYS:N	2.80	0.44
2:A:34:THR:HG22	2:A:36:LYS:N	2.32	0.44
2:A:82:SER:O	2:A:83:SER:O	2.31	0.44
2:A:96:GLN:CG	2:A:103:THR:OG1	2.63	0.44
2:A:165:VAL:HG22	2:A:166:LEU:N	2.32	0.44
4:L:58:ALA:C	4:L:60:VAL:N	2.75	0.44
2:C:138:VAL:HG12	2:C:139:VAL:N	2.32	0.44
3:D:3:GLN:CG	3:D:4:LEU:H	2.24	0.44
3:D:135:ALA:C	3:D:137:THR:N	2.70	0.44
3:D:171:PHE:HA	3:D:172:PRO:HD3	1.78	0.44
1:Q:22:VAL:CA	1:Q:22:VAL:CG1	2.84	0.44
2:E:114:ARG:CD	2:E:178:THR:HG22	2.46	0.44
2:E:154:TRP:HZ2	2:E:183:SER:O	2.00	0.44
3:F:42:GLY:C	3:F:43:LYS:HG3	2.42	0.44
4:N:43:PHE:CE2	4:N:47:THR:HB	2.52	0.44
2:G:67:ARG:C	2:G:69:THR:N	2.75	0.44
2:G:67:ARG:O	2:G:69:THR:N	2.51	0.44
3:H:126:VAL:C	3:H:127:TYR:CD1	2.95	0.44
3:H:129:LEU:HD12	3:H:144:GLY:CA	2.40	0.44
4:O:53:TYR:CD1	4:O:56:LEU:HD23	2.51	0.44
2:A:39:LEU:HD13	2:A:40:ALA:N	2.32	0.44
2:A:124:PHE:CE2	3:B:131:PRO:HA	2.53	0.44
2:C:2:ILE:CD1	2:C:96:GLN:OE1	2.56	0.44
2:C:42:TYR:CD2	3:D:108:TRP:HZ2	2.36	0.44
2:C:65:PRO:HB3	2:C:67:ARG:HH21	1.82	0.44
2:C:176:ASP:C	2:C:178:THR:H	2.25	0.44
4:M:27:LEU:O	4:M:34:ILE:CD1	2.63	0.44
2:E:113:LYS:HE2	4:N:36:THR:OG1	2.17	0.44
2:G:21:MET:HE1	2:G:81:ILE:HG12	1.99	0.44
2:G:73:SER:O	2:G:76:ASP:O	2.36	0.44
2:G:201:GLU:CA	2:G:212:VAL:HG12	2.42	0.44
2:A:59:THR:HG22	2:A:60:ARG:N	2.24	0.44
3:B:149:GLY:CA	3:B:179:LEU:CD2	2.95	0.44
3:B:151:PHE:CD1	3:B:152:PRO:HA	2.52	0.44
3:B:196:GLU:OE1	3:B:196:GLU:CA	2.63	0.44
2:C:108:THR:CG2	2:C:108:THR:CA	2.85	0.44
2:C:114:ARG:NE	2:C:115:ALA:O	2.49	0.44
2:C:125:PRO:HB3	2:C:215:PHE:HE1	1.82	0.44
2:C:166:LEU:HD21	3:D:174:VAL:CG1	2.47	0.44
3:D:106:ASP:OD2	3:D:107:VAL:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N:23:ILE:HG23	4:N:72:GLY:O	2.17	0.44
4:O:33:LYS:CD	4:O:33:LYS:CB	2.89	0.44
2:A:204:HIS:CG	2:A:205:LYS:H	2.31	0.44
3:B:4:LEU:HD13	3:B:107:VAL:HG22	1.98	0.44
4:L:29:PHE:O	4:L:30:ALA:C	2.60	0.44
3:D:125:SER:C	3:D:126:VAL:CG2	2.90	0.44
1:Q:22:VAL:CB	1:Q:22:VAL:N	2.72	0.44
4:M:25:VAL:CG2	4:M:26:ASN:H	2.06	0.44
2:E:61:GLU:O	2:E:64:VAL:HB	2.17	0.44
2:E:164:GLY:O	2:E:166:LEU:HD12	2.18	0.44
1:S:30:ILE:O	1:S:30:ILE:CG1	2.64	0.44
1:S:31:VAL:CG1	1:S:31:VAL:CG2	2.84	0.44
2:G:55:TYR:CE2	2:G:59:THR:HG21	2.53	0.44
2:G:148:LYS:O	2:G:149:ASP:C	2.51	0.44
2:G:182:SER:HB3	3:H:171:PHE:CZ	2.49	0.44
2:G:196:ASN:CG	2:G:216:ASN:HD22	2.25	0.44
1:P:23:LYS:O	1:P:24:PHE:O	2.35	0.44
2:A:188:THR:HG23	2:A:191:GLU:CD	2.42	0.44
2:A:196:ASN:O	2:A:216:ASN:HA	2.18	0.44
2:C:114:ARG:O	2:C:114:ARG:HG3	2.10	0.44
3:D:42:GLY:C	3:D:43:LYS:HE3	2.43	0.44
2:E:9:SER:CB	4:N:38:GLU:O	2.66	0.44
2:E:45:LYS:O	2:E:48:GLN:HB2	2.17	0.44
2:E:55:TYR:HD2	2:E:55:TYR:C	2.26	0.44
2:E:172:GLN:CD	2:E:179:TYR:HE1	2.26	0.44
3:F:28:THR:C	3:F:30:THR:N	2.76	0.44
3:H:153:GLU:HG2	3:H:173:ALA:CB	2.47	0.44
2:A:78:THR:HG22	2:A:79:LEU:N	2.26	0.44
2:C:85:GLN:O	2:C:86:ALA:C	2.58	0.44
2:C:139:VAL:CG1	2:C:140:CYS:N	2.81	0.44
2:C:155:LYS:CE	2:C:158:GLY:O	2.66	0.44
3:D:170:THR:CG2	3:D:170:THR:O	2.65	0.44
3:D:202:VAL:O	3:D:202:VAL:HG22	2.14	0.44
1:Q:40:ARG:NH2	1:Q:45:GLY:HA2	2.32	0.44
2:E:3:VAL:HB	2:E:26:SER:OG	2.18	0.44
3:F:20:ILE:CD1	3:F:112:THR:HB	2.45	0.44
3:F:157:VAL:HG11	3:F:184:SER:HB2	2.00	0.44
4:N:21:VAL:CG1	4:N:22:THR:N	2.77	0.44
1:S:14:ASN:O	1:S:15:THR:HG23	2.18	0.44
2:G:114:ARG:HB2	2:G:115:ALA:H	1.56	0.44
2:G:126:PRO:HG3	2:G:137:SER:C	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:133:SER:HA	3:H:218:ARG:HH11	1.82	0.44
2:A:18:LYS:HA	2:A:82:SER:HA	1.99	0.44
3:B:28:THR:O	3:B:31:ASP:N	2.51	0.44
3:B:159:TRP:CH2	3:B:200:CYS:HB3	2.53	0.44
2:C:118:ALA:HA	2:C:206:THR:HG21	2.00	0.44
1:Q:25:PRO:HG3	1:Q:39:ARG:NE	2.33	0.44
4:M:25:VAL:CG2	4:M:75:MET:HE2	2.46	0.44
4:M:55:ALA:O	4:M:56:LEU:C	2.57	0.44
2:E:55:TYR:HE2	2:E:59:THR:CG2	2.31	0.44
2:E:114:ARG:HB2	5:E:223:HOH:O	2.18	0.44
3:F:48:MET:HG2	3:F:64:PHE:CE1	2.50	0.44
2:G:21:MET:HG2	2:G:108:THR:HB	2.00	0.44
3:H:36:TRP:O	3:H:37:VAL:CG2	2.66	0.44
3:H:54:GLU:O	3:H:55:THR:C	2.60	0.44
2:A:60:ARG:NH2	2:A:68:PHE:O	2.51	0.43
2:A:116:ASP:OD2	2:A:116:ASP:N	2.51	0.43
3:B:134:ALA:O	3:B:135:ALA:HB2	2.18	0.43
3:D:31:ASP:C	3:D:32:PHE:CG	2.95	0.43
4:N:51:TYR:O	4:N:54:ALA:HB3	2.18	0.43
1:S:30:ILE:HG21	3:H:101:LEU:HB3	1.99	0.43
2:G:21:MET:HG2	2:G:108:THR:CG2	2.48	0.43
2:G:182:SER:HB3	3:H:171:PHE:CD2	2.47	0.43
3:H:98:ARG:O	3:H:100:LEU:N	2.51	0.43
3:H:129:LEU:CG	3:H:144:GLY:C	2.90	0.43
2:A:113:LYS:HA	2:A:146:TYR:OH	2.18	0.43
2:A:191:GLU:N	2:A:192:TYR:H	2.16	0.43
3:B:159:TRP:O	3:B:160:ASN:CB	2.66	0.43
2:C:27:GLN:H	2:C:27:GLN:HG2	1.51	0.43
2:C:187:LEU:HD23	2:C:187:LEU:HA	1.74	0.43
3:D:24:ALA:HB1	3:D:27:TYR:CE1	2.53	0.43
3:D:160:ASN:N	3:D:199:THR:O	2.37	0.43
3:D:164:LEU:HD13	3:D:186:VAL:CG2	2.48	0.43
2:E:207:SER:C	2:E:209:SER:H	2.25	0.43
4:N:29:PHE:CE1	4:N:61:ASN:ND2	2.86	0.43
2:G:7:SER:HB2	2:G:8:PRO:HA	2.00	0.43
2:G:55:TYR:CD1	2:G:55:TYR:N	2.86	0.43
2:G:130:GLN:C	2:G:133:SER:HB3	2.42	0.43
2:G:169:TRP:H	2:G:169:TRP:HE3	1.63	0.43
2:A:113:LYS:O	2:A:114:ARG:HB3	2.17	0.43
4:L:29:PHE:N	4:L:29:PHE:CD1	2.85	0.43
2:C:140:CYS:HB2	2:C:154:TRP:CH2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:35:HIS:NE2	3:D:99:PHE:HB3	2.33	0.43
2:E:36:LYS:HE2	2:E:36:LYS:HA	1.98	0.43
1:S:23:LYS:HB3	1:S:24:PHE:H	1.39	0.43
1:S:38:PRO:O	1:S:39:ARG:HD2	2.18	0.43
2:G:29:LEU:HD22	2:G:37:ASN:HB3	2.00	0.43
2:G:126:PRO:CB	2:G:136:ALA:HB1	2.47	0.43
2:G:201:GLU:CG	2:G:201:GLU:CA	2.86	0.43
3:H:129:LEU:HD23	3:H:129:LEU:N	2.33	0.43
3:H:174:VAL:HG23	3:H:182:LEU:HA	2.00	0.43
3:H:179:LEU:CG	3:H:180:TYR:H	2.14	0.43
2:A:37:ASN:O	2:A:56:TRP:HA	2.19	0.43
2:A:188:THR:CG2	2:A:191:GLU:CD	2.92	0.43
2:A:203:THR:HG22	2:A:204:HIS:N	2.33	0.43
3:B:10:GLU:O	3:B:114:VAL:HA	2.19	0.43
2:C:67:ARG:O	2:C:80:THR:O	2.36	0.43
2:E:161:ARG:HG3	2:E:161:ARG:NH2	2.33	0.43
2:G:80:THR:C	2:G:82:SER:N	2.75	0.43
3:H:163:SER:O	3:H:164:LEU:C	2.59	0.43
3:H:175:LEU:CD2	3:H:175:LEU:HG	2.23	0.43
2:A:10:SER:C	2:A:11:LEU:HG	2.42	0.43
2:A:46:PRO:O	2:A:46:PRO:CG	2.66	0.43
2:A:138:VAL:HG21	2:A:198:TYR:HD1	1.84	0.43
3:B:108:TRP:CD1	3:B:108:TRP:N	2.85	0.43
4:L:25:VAL:O	4:L:25:VAL:HG13	2.10	0.43
3:F:99:PHE:CD1	3:F:99:PHE:C	2.96	0.43
3:F:102:ARG:CG	3:F:102:ARG:NE	2.75	0.43
2:G:53:LEU:N	2:G:53:LEU:HD12	2.34	0.43
2:G:112:LEU:HG	2:G:113:LYS:N	2.32	0.43
3:H:36:TRP:N	3:H:49:GLY:O	2.52	0.43
4:O:70:ASP:CB	4:O:73:ASN:HB3	2.44	0.43
2:A:43:GLN:HB2	2:A:53:LEU:HD21	2.00	0.43
2:C:30:LEU:HA	2:C:30:LEU:HD23	1.65	0.43
2:C:138:VAL:H	2:C:138:VAL:HG23	1.54	0.43
2:C:150:ILE:HG21	2:C:150:ILE:HD13	1.73	0.43
3:D:132:GLY:N	5:D:228:HOH:O	2.23	0.43
2:E:114:ARG:O	2:E:146:TYR:CE1	2.72	0.43
3:H:126:VAL:O	3:H:127:TYR:HD1	2.00	0.43
3:H:160:ASN:C	3:H:162:GLY:H	2.24	0.43
4:O:29:PHE:N	4:O:29:PHE:CD1	2.87	0.43
2:A:89:GLN:HE22	2:A:172:GLN:CG	2.25	0.43
2:A:91:VAL:HG12	2:A:93:TYR:CE1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:175:LYS:HD2	2:A:175:LYS:HA	1.88	0.43
3:B:4:LEU:HG	3:B:34:MET:HE1	2.00	0.43
3:B:13:LYS:HG3	3:B:118:SER:HA	2.00	0.43
3:B:122:THR:O	3:B:122:THR:HG23	2.18	0.43
2:C:166:LEU:HD21	3:D:174:VAL:HG11	1.99	0.43
2:C:212:VAL:C	2:C:213:LYS:HG2	2.43	0.43
3:D:49:GLY:O	3:D:50:TRP:HB3	2.19	0.43
3:D:72:LEU:C	3:D:74:THR:N	2.76	0.43
1:S:42:PRO:C	1:S:43:ARG:O	2.59	0.43
2:G:56:TRP:CE3	2:G:59:THR:HG21	2.53	0.43
3:H:168:VAL:HG13	3:H:169:HIS:H	1.83	0.43
3:H:216:VAL:CA	3:H:216:VAL:CG1	2.89	0.43
2:A:87:GLU:OE1	2:A:175:LYS:NZ	2.52	0.43
2:A:157:ASP:O	2:A:159:SER:N	2.51	0.43
2:C:16:GLY:O	2:C:17:GLU:HG3	2.18	0.43
2:C:30:LEU:HG	2:C:37:ASN:ND2	2.29	0.43
2:C:42:TYR:HH	3:D:105:PHE:N	2.11	0.43
2:C:110:LEU:HG	2:C:111:GLU:O	2.18	0.43
3:D:47:TRP:CZ3	3:D:49:GLY:HA2	2.53	0.43
2:G:6:GLN:NE2	2:G:108:THR:OG1	2.41	0.43
2:G:123:ILE:H	2:G:213:LYS:HE3	1.83	0.43
2:G:178:THR:O	2:G:179:TYR:C	2.62	0.43
3:H:201:ASN:OD1	3:H:212:ASP:OD1	2.36	0.43
2:A:89:GLN:HE22	2:A:172:GLN:CB	2.31	0.43
4:L:43:PHE:CE2	4:L:47:THR:OG1	2.70	0.43
2:C:127:SER:OG	2:C:130:GLN:HB3	2.19	0.43
3:D:39:GLN:HG3	3:D:44:GLY:C	2.44	0.43
1:Q:5:PRO:O	1:Q:6:LYS:CG	2.60	0.43
2:G:127:SER:O	2:G:130:GLN:N	2.52	0.43
3:H:107:VAL:HG21	5:H:221:HOH:O	2.19	0.43
2:A:19:VAL:CG1	2:A:81:ILE:HD12	2.49	0.43
3:D:198:VAL:O	3:D:215:ILE:CD1	2.57	0.43
2:E:139:VAL:HB	2:E:141:PHE:HE2	1.84	0.43
2:E:181:MET:C	3:F:171:PHE:HE2	2.27	0.43
2:G:131:LEU:O	2:G:132:THR:C	2.62	0.43
2:G:178:THR:O	2:G:179:TYR:O	2.36	0.43
3:H:32:PHE:CD1	3:H:100:LEU:HA	2.54	0.43
4:O:42:THR:O	4:O:44:GLU:N	2.52	0.43
2:A:67:ARG:HH21	2:A:67:ARG:HG3	1.84	0.42
2:A:204:HIS:HB3	2:A:205:LYS:H	1.50	0.42
2:A:215:PHE:CD1	2:A:215:PHE:C	2.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:40:ALA:CB	3:B:41:PRO:CD	2.91	0.42
2:C:123:ILE:HD11	2:C:154:TRP:HZ3	1.84	0.42
3:D:174:VAL:O	3:D:175:LEU:C	2.61	0.42
2:E:191:GLU:CG	2:E:194:ARG:NH1	2.82	0.42
2:G:99:ILE:O	2:G:100:PRO:C	2.62	0.42
2:E:45:LYS:HA	2:E:90:ALA:CB	2.50	0.42
3:F:52:ASN:CB	3:F:55:THR:OG1	2.63	0.42
2:G:19:VAL:HG22	2:G:20:THR:N	2.33	0.42
2:G:205:LYS:C	2:G:207:SER:N	2.77	0.42
3:H:91:THR:O	3:H:91:THR:CG2	2.66	0.42
3:H:151:PHE:HB3	3:H:152:PRO:CD	2.44	0.42
2:C:86:ALA:C	2:C:88:ASP:N	2.78	0.42
2:C:153:LYS:O	2:C:201:GLU:N	2.30	0.42
2:C:199:THR:HB	2:C:214:SER:HB3	2.00	0.42
1:Q:12:LYS:HG3	1:Q:13:ARG:HG2	2.01	0.42
4:M:24:LYS:CB	4:M:24:LYS:CD	2.91	0.42
4:M:51:TYR:O	4:M:52:ARG:C	2.62	0.42
3:F:7:SER:CB	3:F:20:ILE:HG13	2.39	0.42
3:F:106:ASP:OD2	3:F:107:VAL:HG12	2.19	0.42
4:O:65:THR:N	4:O:78:LYS:O	2.37	0.42
2:A:118:ALA:CB	2:A:119:PRO:HD2	2.47	0.42
3:B:23:LYS:HA	3:B:78:THR:HA	2.02	0.42
3:B:126:VAL:HG21	3:B:211:VAL:HG21	2.01	0.42
3:B:171:PHE:CD1	3:B:171:PHE:N	2.86	0.42
3:B:174:VAL:C	3:B:180:TYR:HD1	2.27	0.42
2:C:148:LYS:CG	2:C:149:ASP:H	2.33	0.42
1:Q:19:PRO:O	1:Q:20:GLN:HG3	2.18	0.42
1:Q:40:ARG:CZ	1:Q:45:GLY:HA2	2.49	0.42
2:E:12:ALA:CB	2:E:12:ALA:N	2.67	0.42
2:E:12:ALA:CB	2:E:12:ALA:O	2.67	0.42
2:E:55:TYR:CD1	3:F:104:TYR:HE2	2.29	0.42
2:E:157:ASP:OD1	2:E:196:ASN:N	2.47	0.42
1:S:6:LYS:HA	1:S:7:PRO:HD2	1.97	0.42
1:S:29:GLN:HA	3:H:101:LEU:CD2	2.49	0.42
2:G:125:PRO:O	2:G:126:PRO:O	2.38	0.42
2:G:145:PHE:H	2:G:178:THR:HB	1.84	0.42
4:O:65:THR:HB	4:O:78:LYS:HG3	2.01	0.42
1:P:36:LEU:HD22	3:B:102:ARG:NH2	2.34	0.42
3:B:52:ASN:OD1	3:B:55:THR:N	2.52	0.42
3:B:87:LYS:O	3:B:116:VAL:HG11	2.20	0.42
3:B:157:VAL:C	3:B:158:THR:CG2	2.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:189:PRO:O	3:B:191:SER:N	2.52	0.42
4:L:61:ASN:O	4:L:81:GLY:HA2	2.19	0.42
2:E:190:ASP:O	2:E:193:GLU:C	2.63	0.42
2:G:54:ILE:HG22	2:G:60:ARG:CA	2.42	0.42
2:G:54:ILE:HG22	2:G:60:ARG:N	2.34	0.42
3:H:24:ALA:O	3:H:25:SER:CB	2.60	0.42
3:H:164:LEU:CD1	3:H:198:VAL:HG13	2.49	0.42
3:H:188:VAL:CB	3:H:189:PRO:CD	2.72	0.42
2:A:114:ARG:HG3	2:A:146:TYR:CG	2.54	0.42
3:B:38:ASN:HB2	3:B:48:MET:SD	2.59	0.42
3:B:101:LEU:HD13	3:B:101:LEU:HA	1.53	0.42
2:C:189:LYS:CA	2:C:189:LYS:CG	2.80	0.42
2:C:206:THR:HG23	2:C:206:THR:H	1.85	0.42
3:D:73:GLU:O	3:D:74:THR:C	2.63	0.42
2:E:89:GLN:OE1	2:E:177:SER:HB3	2.20	0.42
3:F:86:LEU:HD13	3:F:116:VAL:HG21	2.00	0.42
3:F:102:ARG:HG2	3:F:102:ARG:HH21	1.83	0.42
3:F:193:TRP:HA	3:F:194:PRO:HA	1.58	0.42
2:G:177:SER:C	2:G:178:THR:CG2	2.92	0.42
3:H:151:PHE:CB	3:H:152:PRO:CD	2.97	0.42
1:P:25:PRO:HB2	1:P:26:GLY:H	1.55	0.42
2:A:121:VAL:HG22	2:A:142:LEU:HD22	2.02	0.42
3:B:38:ASN:O	3:B:45:LEU:HA	2.20	0.42
3:B:100:LEU:HD11	3:B:106:ASP:CG	2.41	0.42
3:B:129:LEU:N	3:B:129:LEU:CD1	2.82	0.42
4:L:54:ALA:O	4:L:56:LEU:O	2.37	0.42
4:L:62:GLY:HA3	4:L:81:GLY:H	1.79	0.42
2:C:95:LYS:HA	2:C:103:THR:O	2.20	0.42
2:C:117:ALA:O	2:C:145:PHE:HA	2.20	0.42
3:D:56:GLY:O	3:D:57:GLU:C	2.62	0.42
4:M:29:PHE:N	4:M:29:PHE:CD1	2.88	0.42
1:S:13:ARG:NH1	1:S:13:ARG:CB	2.62	0.42
4:O:59:LYS:CB	4:O:59:LYS:CD	2.90	0.42
2:A:49:SER:O	2:A:50:PRO:C	2.62	0.42
2:A:124:PHE:HA	2:A:125:PRO:HD3	1.75	0.42
2:C:2:ILE:CB	2:C:96:GLN:CD	2.93	0.42
2:C:95:LYS:NZ	3:D:105:PHE:CE2	2.88	0.42
2:C:155:LYS:HE3	2:C:158:GLY:HA2	2.01	0.42
3:D:140:MET:C	3:D:190:SER:OG	2.63	0.42
4:M:34:ILE:C	4:M:34:ILE:CD1	2.92	0.42
2:E:172:GLN:CD	2:E:179:TYR:CE1	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:176:ASP:C	2:G:178:THR:HG23	2.43	0.42
4:O:29:PHE:CD2	4:O:79:PHE:CE2	3.08	0.42
1:P:38:PRO:O	3:F:32:PHE:CZ	2.72	0.42
2:A:54:ILE:HD12	2:A:70:GLY:CA	2.50	0.42
3:B:97:ALA:HA	3:B:108:TRP:HA	2.01	0.42
2:C:29:LEU:CD1	2:C:77:PHE:CZ	2.98	0.42
2:C:121:VAL:H	2:C:121:VAL:HG23	1.61	0.42
3:D:17:THR:O	3:D:17:THR:OG1	2.28	0.42
3:D:74:THR:O	3:D:77:SER:N	2.53	0.42
1:Q:39:ARG:HD2	1:Q:39:ARG:HA	1.76	0.42
4:M:28:ILE:HA	4:M:34:ILE:HG12	2.02	0.42
2:E:49:SER:HA	2:E:50:PRO:HD3	1.85	0.42
2:E:131:LEU:O	2:E:133:SER:N	2.48	0.42
3:F:14:PRO:C	3:F:16:GLU:N	2.78	0.42
3:F:17:THR:HG22	3:F:18:VAL:H	1.85	0.42
3:F:50:TRP:HE1	3:F:59:THR:HB	1.82	0.42
4:N:21:VAL:O	4:N:40:LYS:HG3	2.20	0.42
2:A:124:PHE:N	2:A:139:VAL:O	2.42	0.42
2:A:167:ASN:HB3	2:A:181:MET:CE	2.47	0.42
4:L:22:THR:HG22	4:L:23:ILE:N	2.34	0.42
2:C:3:VAL:HB	2:C:26:SER:OG	2.20	0.42
3:D:200:CYS:N	3:D:213:LYS:O	2.50	0.42
1:Q:6:LYS:NZ	5:Q:54:HOH:O	2.53	0.42
4:M:28:ILE:HD11	4:M:76:ASN:HB3	2.01	0.42
2:E:95:LYS:CB	2:E:104:PHE:CD2	3.00	0.42
2:E:165:VAL:O	2:E:166:LEU:CG	2.67	0.42
4:N:28:ILE:CG2	4:N:28:ILE:C	2.93	0.42
2:A:114:ARG:NE	2:A:146:TYR:HB2	2.35	0.41
2:A:157:ASP:O	2:A:159:SER:HB2	2.20	0.41
2:C:43:GLN:CD	2:C:45:LYS:HZ1	2.28	0.41
3:D:11:LEU:HD23	3:D:115:THR:HG22	2.02	0.41
2:E:85:GLN:O	2:E:88:ASP:OD1	2.37	0.41
3:F:168:VAL:HG12	3:F:169:HIS:H	1.85	0.41
4:N:19:GLU:C	4:N:20:GLU:O	2.63	0.41
2:G:44:GLN:NE2	2:G:48:GLN:O	2.42	0.41
2:G:211:ILE:HD12	2:G:212:VAL:N	2.32	0.41
3:H:99:PHE:CB	3:H:99:PHE:N	2.69	0.41
4:O:26:ASN:CG	4:O:76:ASN:ND2	2.70	0.41
2:A:20:THR:O	4:L:53:TYR:CE1	2.71	0.41
2:A:166:LEU:CD1	3:B:176:GLN:HE22	2.13	0.41
3:B:204:HIS:HA	3:B:205:PRO:HD2	1.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:18:LYS:HE2	4:M:60:VAL:HG11	2.02	0.41
2:C:199:THR:CB	2:C:214:SER:HB3	2.49	0.41
3:D:64:PHE:HD2	3:D:68:PHE:CE2	2.39	0.41
3:D:218:ARG:HH21	3:D:218:ARG:CG	2.33	0.41
4:M:29:PHE:O	4:M:30:ALA:C	2.63	0.41
2:E:128:SER:C	2:E:130:GLN:H	2.26	0.41
3:F:87:LYS:O	3:F:116:VAL:HG11	2.20	0.41
2:G:62:SER:O	2:G:64:VAL:N	2.53	0.41
3:H:78:THR:CG2	3:H:79:ALA:N	2.83	0.41
3:H:167:GLY:O	3:H:168:VAL:CG2	2.67	0.41
2:A:120:THR:HB	2:A:143:ASN:HB2	2.03	0.41
3:B:147:VAL:N	3:B:182:LEU:O	2.48	0.41
2:C:188:THR:HG23	2:C:191:GLU:HB3	2.00	0.41
3:D:12:LYS:HA	3:D:12:LYS:HD3	1.75	0.41
3:D:214:LYS:CD	3:D:215:ILE:O	2.67	0.41
2:E:65:PRO:HB3	2:E:67:ARG:CD	2.50	0.41
2:E:156:ILE:HG12	2:E:198:TYR:CD1	2.55	0.41
2:E:187:LEU:HB3	2:E:191:GLU:OE1	2.20	0.41
4:N:77:ILE:O	4:N:79:PHE:CE1	2.69	0.41
2:G:16:GLY:HA2	2:G:83:SER:C	2.46	0.41
2:G:102:LEU:CD2	3:H:105:PHE:HZ	2.30	0.41
2:G:150:ILE:CD1	2:G:203:THR:O	2.69	0.41
2:G:199:THR:HG22	2:G:214:SER:CB	2.49	0.41
3:H:12:LYS:CE	3:H:12:LYS:CA	2.96	0.41
4:O:31:ASP:OD2	4:O:33:LYS:HG2	2.20	0.41
2:A:61:GLU:HB3	2:A:64:VAL:HG23	2.02	0.41
2:A:99:ILE:O	2:A:100:PRO:C	2.58	0.41
3:B:6:GLN:NE2	3:B:111:GLY:CA	2.84	0.41
4:L:25:VAL:CG2	4:L:26:ASN:N	2.75	0.41
3:D:1:GLN:NE2	1:Q:13:ARG:CD	2.81	0.41
3:D:152:PRO:O	3:D:154:PRO:CG	2.68	0.41
4:M:26:ASN:OD1	4:M:26:ASN:C	2.63	0.41
4:M:54:ALA:O	4:M:55:ALA:C	2.57	0.41
2:E:125:PRO:O	2:E:126:PRO:C	2.59	0.41
2:E:190:ASP:C	2:E:192:TYR:N	2.70	0.41
3:F:9:PRO:O	3:F:10:GLU:C	2.63	0.41
3:F:215:ILE:HG23	3:F:215:ILE:HD12	1.55	0.41
4:N:20:GLU:HG2	4:N:41:GLY:O	2.20	0.41
1:S:14:ASN:O	1:S:15:THR:CG2	2.68	0.41
2:G:14:SER:HB3	2:G:17:GLU:OE1	2.21	0.41
2:G:36:LYS:HD3	2:G:56:TRP:NE1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:112:LEU:CG	2:G:113:LYS:N	2.83	0.41
2:G:152:VAL:HG21	2:G:202:ALA:HA	2.01	0.41
3:H:59:THR:CG2	3:H:59:THR:CA	2.89	0.41
3:H:186:VAL:HG11	3:H:198:VAL:HG11	2.03	0.41
2:A:2:ILE:HD13	2:A:29:LEU:HD21	2.02	0.41
2:A:12:ALA:O	2:A:113:LYS:CG	2.62	0.41
2:A:14:SER:HB2	2:A:17:GLU:OE2	2.21	0.41
2:A:19:VAL:HG13	2:A:81:ILE:H	1.85	0.41
2:A:56:TRP:CH2	3:B:102:ARG:HD2	2.54	0.41
3:B:65:LYS:C	3:B:66:GLY:O	2.61	0.41
3:B:170:THR:O	3:B:170:THR:HG22	2.12	0.41
2:C:1:ASP:O	2:C:2:ILE:O	2.37	0.41
2:C:45:LYS:HA	2:C:90:ALA:CB	2.50	0.41
2:C:102:LEU:N	2:C:102:LEU:HD12	2.35	0.41
2:C:217:ARG:HH21	2:C:217:ARG:HD2	1.50	0.41
3:D:2:ILE:HG12	3:D:26:GLY:O	2.21	0.41
3:D:129:LEU:HB2	3:D:144:GLY:HA3	2.01	0.41
3:D:158:THR:HG1	3:D:201:ASN:ND2	2.10	0.41
1:Q:33:GLY:CA	1:Q:36:LEU:HB3	2.22	0.41
4:M:63:GLU:OE2	4:M:63:GLU:N	2.41	0.41
2:E:55:TYR:HD2	2:E:56:TRP:N	2.17	0.41
2:E:65:PRO:C	2:E:67:ARG:H	2.29	0.41
3:F:75:SER:C	3:F:77:SER:N	2.79	0.41
3:F:141:VAL:HG12	3:F:190:SER:HA	2.03	0.41
4:N:43:PHE:C	4:N:45:GLU:N	2.79	0.41
2:G:19:VAL:CG1	2:G:81:ILE:CB	2.88	0.41
2:G:192:TYR:C	2:G:194:ARG:N	2.75	0.41
3:H:122:THR:HA	3:H:123:PRO:HD3	1.87	0.41
3:H:190:SER:O	3:H:191:SER:C	2.62	0.41
4:O:58:ALA:CB	4:O:59:LYS:N	2.83	0.41
2:A:89:GLN:CD	2:A:172:GLN:CG	2.93	0.41
3:B:182:LEU:CD2	3:B:183:SER:O	2.69	0.41
3:B:215:ILE:O	3:B:215:ILE:CG2	2.67	0.41
2:C:61:GLU:H	2:C:64:VAL:CG2	2.32	0.41
2:C:219:GLU:O	2:C:220:CYS:HB3	2.21	0.41
2:E:115:ALA:C	2:E:116:ASP:O	2.63	0.41
3:F:13:LYS:HA	3:F:117:SER:O	2.20	0.41
3:F:62:ASP:C	3:F:64:PHE:H	2.28	0.41
3:F:73:GLU:HB3	3:F:78:THR:HB	2.02	0.41
3:F:88:ASN:C	3:F:90:ASP:H	2.27	0.41
4:N:28:ILE:CG2	4:N:28:ILE:CG1	2.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:9:ARG:HH21	1:S:10:LYS:H	1.68	0.41
1:S:11:THR:HB	1:S:12:LYS:HD2	2.02	0.41
1:S:30:ILE:HG22	3:H:101:LEU:HD22	2.02	0.41
2:G:64:VAL:HG22	2:G:65:PRO:HD2	2.02	0.41
3:H:100:LEU:N	3:H:100:LEU:HD23	2.34	0.41
3:H:197:THR:CG2	3:H:214:LYS:HE3	2.50	0.41
2:A:45:LYS:O	2:A:46:PRO:C	2.56	0.41
3:B:36:TRP:HZ2	3:B:80:TYR:C	2.29	0.41
3:B:60:TYR:CZ	3:B:69:ALA:HA	2.55	0.41
2:C:161:ARG:CG	2:C:161:ARG:NE	2.72	0.41
3:D:20:ILE:HG21	3:D:20:ILE:HD13	1.83	0.41
3:D:88:ASN:C	3:D:90:ASP:H	2.28	0.41
2:E:44:GLN:O	2:E:45:LYS:C	2.60	0.41
2:E:105:GLY:C	2:E:107:GLY:H	2.27	0.41
4:N:69:GLU:C	4:N:71:GLY:N	2.77	0.41
2:G:53:LEU:C	2:G:54:ILE:HG23	2.46	0.41
3:B:176:GLN:O	3:B:177:SER:HB2	2.20	0.41
2:C:54:ILE:CG2	2:C:55:TYR:N	2.83	0.41
2:C:131:LEU:O	2:C:132:THR:C	2.63	0.41
2:C:146:TYR:HA	2:C:147:PRO:C	2.46	0.41
3:D:7:SER:C	3:D:8:GLY:O	2.64	0.41
3:D:39:GLN:HA	3:D:44:GLY:O	2.21	0.41
3:D:52:ASN:HD21	3:D:54:GLU:HB2	1.86	0.41
3:D:83:ILE:HG22	3:D:86:LEU:HD23	2.01	0.41
1:Q:19:PRO:C	1:Q:20:GLN:HG3	2.45	0.41
2:E:175:LYS:O	2:E:176:ASP:CB	2.66	0.41
2:G:53:LEU:N	2:G:53:LEU:CD1	2.83	0.41
2:G:53:LEU:HB3	2:G:54:ILE:CD1	2.51	0.41
2:G:55:TYR:O	2:G:56:TRP:HB2	2.20	0.41
2:G:123:ILE:HG22	2:G:213:LYS:HD2	2.02	0.41
2:G:137:SER:HG	2:G:186:THR:HA	1.79	0.41
2:G:198:TYR:O	2:G:214:SER:HA	2.20	0.41
3:H:18:VAL:HG11	3:H:86:LEU:HD21	2.02	0.41
3:H:67:ARG:CG	3:H:68:PHE:CE2	3.00	0.41
3:H:186:VAL:HG22	3:H:187:THR:N	2.35	0.41
2:A:112:LEU:HD23	2:A:113:LYS:O	2.19	0.41
2:A:220:CYS:HA	3:B:133:SER:HB3	2.02	0.41
3:B:8:GLY:C	3:B:9:PRO:O	2.48	0.41
3:B:117:SER:OG	3:B:118:SER:N	2.54	0.41
3:B:143:LEU:HD12	3:B:198:VAL:HG11	2.03	0.41
2:C:31:ASN:HD21	2:C:33:ARG:HB2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:43:GLN:O	2:C:51:LYS:N	2.54	0.41
2:C:185:LEU:HD12	2:C:185:LEU:C	2.46	0.41
3:D:20:ILE:HG13	3:D:81:LEU:HB3	2.02	0.41
3:D:72:LEU:HD12	3:D:72:LEU:HA	1.71	0.41
3:D:142:THR:OG1	3:D:187:THR:HB	2.21	0.41
3:D:160:ASN:HA	3:D:199:THR:OG1	2.19	0.41
3:D:175:LEU:HD12	3:D:180:TYR:CD1	2.56	0.41
4:M:45:GLU:HB3	4:M:46:ALA:H	1.71	0.41
2:E:11:LEU:HD11	2:E:21:MET:SD	2.61	0.41
2:E:71:ARG:CB	2:E:71:ARG:CD	2.79	0.41
2:E:102:LEU:HD12	3:F:47:TRP:NE1	2.36	0.41
2:E:157:ASP:OD1	2:E:195:HIS:HB3	2.21	0.41
3:F:35:HIS:CD2	3:F:50:TRP:CB	3.03	0.41
3:F:39:GLN:O	3:F:92:ALA:HB1	2.20	0.41
3:F:57:GLU:HA	3:F:58:PRO:HD2	1.98	0.41
1:S:9:ARG:O	1:S:10:LYS:C	2.64	0.41
1:S:24:PHE:CZ	3:H:32:PHE:CZ	3.09	0.41
2:G:62:SER:C	2:G:64:VAL:N	2.76	0.41
2:G:109:LYS:CD	2:G:109:LYS:CB	2.81	0.41
2:G:188:THR:OG1	2:G:191:GLU:HB3	2.21	0.41
3:H:58:PRO:HB2	3:H:60:TYR:CE2	2.55	0.41
4:O:57:HIS:C	4:O:60:VAL:CG1	2.93	0.41
2:A:45:LYS:CB	2:A:46:PRO:HD2	2.41	0.41
3:B:94:TYR:O	3:B:111:GLY:CA	2.69	0.41
2:C:148:LYS:O	2:C:149:ASP:O	2.37	0.41
2:E:172:GLN:HE21	2:E:177:SER:CB	2.29	0.41
2:E:176:ASP:O	2:E:177:SER:C	2.61	0.41
3:F:51:VAL:HG22	3:F:70:PHE:HB3	2.02	0.41
3:F:117:SER:OG	3:F:118:SER:N	2.54	0.41
3:F:199:THR:CG2	3:F:214:LYS:HB2	2.49	0.41
3:H:53:THR:H	3:H:53:THR:HG23	1.35	0.41
3:H:70:PHE:CD2	3:H:81:LEU:HD23	2.56	0.41
3:H:78:THR:HG22	3:H:79:ALA:N	2.35	0.41
3:H:116:VAL:O	3:H:117:SER:CB	2.63	0.41
3:B:151:PHE:CE1	3:B:152:PRO:HB3	2.57	0.40
3:D:136:GLN:O	3:D:137:THR:O	2.39	0.40
4:M:21:VAL:O	4:M:41:GLY:O	2.39	0.40
3:F:78:THR:CG2	3:F:79:ALA:H	2.32	0.40
3:H:10:GLU:HB2	3:H:114:VAL:HA	2.03	0.40
2:A:20:THR:O	2:A:20:THR:HG22	2.20	0.40
2:A:44:GLN:HB2	2:A:50:PRO:HA	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:145:PHE:N	2:A:179:TYR:O	2.52	0.40
2:A:166:LEU:O	2:A:184:THR:N	2.51	0.40
2:C:86:ALA:O	2:C:88:ASP:N	2.47	0.40
2:C:191:GLU:O	2:C:192:TYR:C	2.64	0.40
4:M:75:MET:HG2	4:M:77:ILE:CD1	2.51	0.40
2:E:19:VAL:HG11	2:E:84:VAL:CG2	2.51	0.40
2:E:69:THR:N	2:E:80:THR:O	2.53	0.40
4:N:53:TYR:OH	4:N:57:HIS:CE1	2.75	0.40
1:S:36:LEU:HD13	1:S:36:LEU:HA	2.02	0.40
2:G:211:ILE:HG13	2:G:212:VAL:N	2.35	0.40
2:G:219:GLU:OE2	3:H:134:ALA:CB	2.69	0.40
3:H:169:HIS:HB2	3:H:171:PHE:HE1	1.87	0.40
4:O:54:ALA:C	4:O:56:LEU:N	2.73	0.40
4:O:57:HIS:HB2	4:O:58:ALA:H	1.04	0.40
2:A:69:THR:O	2:A:79:LEU:HA	2.22	0.40
2:A:173:ASP:CG	2:A:174:SER:N	2.79	0.40
3:B:132:GLY:C	3:B:134:ALA:N	2.76	0.40
2:C:173:ASP:C	2:C:175:LYS:N	2.79	0.40
3:D:11:LEU:HD13	3:D:11:LEU:O	2.21	0.40
2:E:63:GLY:O	2:E:65:PRO:HD3	2.22	0.40
2:E:122:SER:O	2:E:141:PHE:N	2.50	0.40
2:E:139:VAL:O	2:E:139:VAL:HG23	2.13	0.40
3:F:196:GLU:O	3:F:197:THR:CG2	2.57	0.40
2:G:102:LEU:HD23	3:H:105:PHE:HZ	1.81	0.40
2:G:123:ILE:HA	2:G:140:CYS:HA	2.04	0.40
4:O:48:ALA:O	4:O:49:GLU:C	2.63	0.40
2:A:77:PHE:CD2	2:A:77:PHE:N	2.88	0.40
2:A:162:GLN:CD	2:A:162:GLN:CB	2.84	0.40
2:A:216:ASN:C	2:A:218:ASN:H	2.30	0.40
3:B:94:TYR:O	3:B:111:GLY:HA2	2.22	0.40
3:B:101:LEU:O	3:B:102:ARG:C	2.62	0.40
2:C:53:LEU:O	2:C:54:ILE:HD13	2.22	0.40
2:C:129:GLU:CG	2:C:129:GLU:CA	2.89	0.40
2:C:173:ASP:OD1	2:C:175:LYS:CD	2.66	0.40
3:D:2:ILE:HG12	3:D:26:GLY:C	2.47	0.40
3:D:174:VAL:HG12	3:D:175:LEU:O	2.21	0.40
3:D:196:GLU:O	3:D:198:VAL:HG23	2.22	0.40
1:Q:37:LEU:H	1:Q:38:PRO:CD	2.34	0.40
1:Q:40:ARG:NE	1:Q:45:GLY:O	2.55	0.40
3:F:148:LYS:HZ2	3:F:149:GLY:H	1.67	0.40
2:G:7:SER:C	2:G:8:PRO:O	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:61:GLU:OE1	3:H:104:TYR:OH	2.39	0.40
2:G:173:ASP:CB	2:G:176:ASP:HB3	2.50	0.40
2:G:203:THR:HA	2:G:210:PRO:HG3	2.03	0.40
3:H:29:PHE:HE2	3:H:72:LEU:HD11	1.87	0.40
3:H:189:PRO:O	3:H:190:SER:C	2.64	0.40
3:H:216:VAL:O	3:H:217:PRO:C	2.60	0.40
4:O:64:TRP:CZ3	4:O:66:ALA:CB	3.05	0.40
2:A:37:ASN:C	2:A:39:LEU:H	2.30	0.40
3:B:98:ARG:HH21	3:B:98:ARG:HD2	1.35	0.40
3:B:118:SER:O	3:B:119:ALA:O	2.39	0.40
4:L:39:PHE:HB3	4:L:49:GLU:OE2	2.21	0.40
2:C:16:GLY:CA	2:C:84:VAL:O	2.69	0.40
2:C:51:LYS:HA	2:C:51:LYS:HD3	1.75	0.40
2:C:157:ASP:CB	2:C:196:ASN:H	2.27	0.40
3:D:20:ILE:HD11	3:D:81:LEU:HD22	2.04	0.40
3:D:96:CYS:O	3:D:109:GLY:N	2.52	0.40
3:D:125:SER:O	3:D:126:VAL:HG23	2.20	0.40
3:D:189:PRO:C	3:D:191:SER:H	2.29	0.40
2:E:124:PHE:HA	2:E:125:PRO:HD3	1.88	0.40
2:E:155:LYS:CB	2:E:199:THR:OG1	2.70	0.40
2:E:173:ASP:OD1	2:E:175:LYS:HG2	2.21	0.40
2:E:191:GLU:O	2:E:194:ARG:NH1	2.54	0.40
3:F:17:THR:CG2	3:F:18:VAL:N	2.85	0.40
3:F:20:ILE:CD1	3:F:112:THR:CB	2.99	0.40
3:F:126:VAL:O	3:F:213:LYS:NZ	2.43	0.40
2:G:10:SER:HB3	4:O:38:GLU:CD	2.46	0.40
2:G:22:SER:CB	2:G:78:THR:HG22	2.51	0.40
3:H:51:VAL:HG23	3:H:52:ASN:H	1.86	0.40
3:H:207:SER:HB2	3:H:209:THR:HG23	2.02	0.40

All (3) 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:C:149:ASP:OD1	1:Q:10:LYS:O[1_455]	2.02	0.18
2:C:171:ASP:OD1	1:Q:18:ARG:NH1[1_455]	2.11	0.09
1:S:21:ASP:OD2	4:O:22:THR:OG1[1_655]	2.12	0.08

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	P	22/44 (50%)	5 (23%)	4 (18%)	13 (59%)	0	0
1	Q	42/44 (96%)	14 (33%)	15 (36%)	13 (31%)	0	0
1	S	42/44 (96%)	10 (24%)	14 (33%)	18 (43%)	0	0
2	A	218/220 (99%)	158 (72%)	38 (17%)	22 (10%)	0	6
2	C	218/220 (99%)	147 (67%)	35 (16%)	36 (16%)	0	2
2	E	218/220 (99%)	163 (75%)	34 (16%)	21 (10%)	0	6
2	G	217/220 (99%)	147 (68%)	38 (18%)	32 (15%)	0	3
3	B	216/218 (99%)	144 (67%)	39 (18%)	33 (15%)	0	2
3	D	216/218 (99%)	142 (66%)	40 (18%)	34 (16%)	0	2
3	F	216/218 (99%)	149 (69%)	39 (18%)	28 (13%)	0	3
3	H	216/218 (99%)	138 (64%)	51 (24%)	27 (12%)	0	4
4	L	64/80 (80%)	47 (73%)	8 (12%)	9 (14%)	0	3
4	M	60/80 (75%)	33 (55%)	19 (32%)	8 (13%)	0	3
4	N	62/80 (78%)	39 (63%)	13 (21%)	10 (16%)	0	2
4	O	60/80 (75%)	37 (62%)	16 (27%)	7 (12%)	0	4
All	All	2087/2204 (95%)	1373 (66%)	403 (19%)	311 (15%)	0	2

All (311) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	P	20	GLN
1	P	25	PRO
1	P	34	VAL
1	P	35	TYR
1	P	37	LEU
1	P	38	PRO
1	P	39	ARG
2	A	25	SER

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Mol	Chain	Res	Type
2	A	56	TRP
2	A	133	SER
2	A	144	ASN
2	A	191	GLU
2	A	217	ARG
3	B	40	ALA
3	B	53	THR
3	B	74	THR
3	B	103	GLN
3	B	119	ALA
3	B	141	VAL
3	B	163	SER
3	B	178	ASP
3	B	195	SER
3	B	210	LYS
4	L	19	GLU
4	L	66	ALA
4	L	67	ASP
4	L	77	ILE
2	C	2	ILE
2	C	14	SER
2	C	28	SER
2	C	34	THR
2	C	50	PRO
2	C	63	GLY
2	C	73	SER
2	C	83	SER
2	C	84	VAL
2	C	89	GLN
2	C	106	ALA
2	C	133	SER
2	C	149	ASP
2	C	189	LYS
2	C	194	ARG
2	C	195	HIS
3	D	16	GLU
3	D	53	THR
3	D	74	THR
3	D	75	SER
3	D	77	SER
3	D	91	THR
3	D	112	THR

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Mol	Chain	Res	Type
3	D	113	THR
3	D	119	ALA
3	D	135	ALA
3	D	137	THR
3	D	151	PHE
3	D	160	ASN
3	D	171	PHE
3	D	186	VAL
3	D	206	ALA
1	Q	5	PRO
1	Q	19	PRO
1	Q	39	ARG
4	M	40	LYS
4	M	58	ALA
4	M	59	LYS
4	M	60	VAL
2	E	28	SER
2	E	46	PRO
2	E	50	PRO
2	E	56	TRP
2	E	84	VAL
2	E	144	ASN
2	E	176	ASP
3	F	14	PRO
3	F	54	GLU
3	F	63	ASP
3	F	74	THR
3	F	149	GLY
4	N	21	VAL
4	N	43	PHE
4	N	59	LYS
4	N	68	LEU
4	N	69	GLU
1	S	7	PRO
1	S	10	LYS
1	S	23	LYS
1	S	30	ILE
1	S	31	VAL
1	S	38	PRO
2	G	25	SER
2	G	28	SER
2	G	35	ARG

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Mol	Chain	Res	Type
2	G	62	SER
2	G	72	GLY
2	G	98	TYR
2	G	111	GLU
2	G	162	GLN
2	G	179	TYR
2	G	188	THR
3	H	2	ILE
3	H	52	ASN
3	H	92	ALA
3	H	139	SER
3	H	150	TYR
3	H	161	SER
3	H	165	SER
3	H	166	SER
4	O	33	LYS
4	O	56	LEU
4	O	60	VAL
1	P	24	PHE
2	A	66	ASP
2	A	114	ARG
2	A	158	GLY
2	A	194	ARG
2	A	195	HIS
2	A	205	LYS
3	B	28	THR
3	B	118	SER
3	B	135	ALA
3	B	149	GLY
3	B	197	THR
3	B	217	PRO
4	L	20	GLU
2	C	87	GLU
2	C	148	LYS
2	C	162	GLN
2	C	187	LEU
2	C	219	GLU
3	D	8	GLY
3	D	62	ASP
3	D	103	GLN
3	D	133	SER
3	D	152	PRO

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Mol	Chain	Res	Type
3	D	175	LEU
3	D	176	GLN
1	Q	13	ARG
1	Q	16	ASN
1	Q	21	ASP
4	M	80	ALA
2	E	66	ASP
2	E	86	ALA
2	E	129	GLU
2	E	134	GLY
2	E	157	ASP
2	E	171	ASP
3	F	7	SER
3	F	15	GLY
3	F	32	PHE
3	F	77	SER
3	F	86	LEU
3	F	103	GLN
3	F	110	ALA
3	F	135	ALA
3	F	197	THR
4	N	20	GLU
4	N	44	GLU
1	S	5	PRO
1	S	36	LEU
1	S	40	ARG
1	S	43	ARG
2	G	16	GLY
2	G	32	SER
2	G	60	ARG
2	G	83	SER
2	G	131	LEU
2	G	132	THR
2	G	144	ASN
2	G	161	ARG
2	G	206	THR
3	H	20	ILE
3	H	60	TYR
3	H	62	ASP
3	H	89	GLU
3	H	113	THR
3	H	176	GLN

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Mol	Chain	Res	Type
3	H	190	SER
3	H	210	LYS
4	O	54	ALA
4	O	59	LYS
1	P	30	ILE
2	A	88	ASP
2	A	129	GLU
2	A	157	ASP
3	B	14	PRO
3	B	29	PHE
3	B	52	ASN
3	B	145	CYS
3	B	177	SER
3	B	190	SER
3	B	215	ILE
4	L	44	GLU
4	L	59	LYS
2	C	16	GLY
2	C	33	ARG
2	C	57	ALA
2	C	65	PRO
2	C	86	ALA
2	C	197	SER
2	C	214	SER
2	C	218	ASN
3	D	14	PRO
3	D	73	GLU
3	D	85	SER
3	D	177	SER
3	D	205	PRO
1	Q	10	LYS
1	Q	28	GLY
1	Q	37	LEU
2	E	89	GLN
2	E	218	ASN
3	F	47	TRP
3	F	65	LYS
3	F	190	SER
4	N	72	GLY
1	S	14	ASN
1	S	18	ARG
2	G	128	SER

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Mol	Chain	Res	Type
2	G	217	ARG
3	H	74	THR
3	H	141	VAL
4	O	58	ALA
2	A	2	ILE
2	A	57	ALA
2	A	215	PHE
3	B	88	ASN
2	C	8	PRO
2	C	82	SER
2	C	206	THR
3	D	134	ALA
3	D	149	GLY
1	Q	22	VAL
4	M	44	GLU
2	E	73	SER
2	E	189	LYS
2	E	194	ARG
3	F	31	ASP
3	F	76	ALA
3	F	138	ASN
3	F	150	TYR
3	F	191	SER
4	N	70	ASP
1	S	11	THR
1	S	19	PRO
1	S	44	LEU
2	G	38	TYR
2	G	114	ARG
3	H	7	SER
3	H	151	PHE
2	A	75	THR
2	A	117	ALA
2	A	148	LYS
3	B	7	SER
3	B	22	CYS
3	B	76	ALA
3	B	85	SER
3	B	114	VAL
3	B	170	THR
3	B	205	PRO
4	L	18	LYS

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Mol	Chain	Res	Type
4	L	60	VAL
2	C	126	PRO
2	C	136	ALA
2	C	144	ASN
3	D	57	GLU
3	D	162	GLY
3	D	209	THR
1	Q	4	ASN
1	Q	40	ARG
4	M	25	VAL
4	M	35	GLN
3	F	18	VAL
3	F	55	THR
3	F	151	PHE
4	N	60	VAL
2	G	30	LEU
2	G	90	ALA
2	G	157	ASP
3	H	31	ASP
3	H	58	PRO
3	H	94	TYR
3	H	153	GLU
3	D	104	TYR
1	Q	42	PRO
2	E	65	PRO
3	F	215	ILE
1	S	6	LYS
1	S	42	PRO
2	G	3	VAL
2	G	196	ASN
3	H	51	VAL
3	H	66	GLY
3	B	132	GLY
2	E	150	ILE
2	G	13	VAL
2	G	46	PRO
2	G	65	PRO
3	H	171	PHE
1	P	22	VAL
1	P	32	GLY
3	F	9	PRO
1	S	33	GLY

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Mol	Chain	Res	Type
2	A	84	VAL
2	C	135	GLY
2	G	84	VAL
1	P	28	GLY
3	B	172	PRO
2	E	210	PRO
4	O	21	VAL
1	P	26	GLY
3	F	152	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	P	15/37 (40%)	13 (87%)	2 (13%)	4	20
1	Q	37/37 (100%)	28 (76%)	9 (24%)	1	4
1	S	37/37 (100%)	26 (70%)	11 (30%)	0	2
2	A	195/195 (100%)	169 (87%)	26 (13%)	4	20
2	C	195/195 (100%)	158 (81%)	37 (19%)	1	8
2	E	195/195 (100%)	161 (83%)	34 (17%)	2	11
2	G	194/195 (100%)	168 (87%)	26 (13%)	4	20
3	B	187/187 (100%)	154 (82%)	33 (18%)	2	11
3	D	187/187 (100%)	159 (85%)	28 (15%)	3	17
3	F	187/187 (100%)	152 (81%)	35 (19%)	1	9
3	H	187/187 (100%)	160 (86%)	27 (14%)	3	18
4	L	48/62 (77%)	40 (83%)	8 (17%)	2	13
4	M	46/62 (74%)	38 (83%)	8 (17%)	2	11
4	N	46/62 (74%)	37 (80%)	9 (20%)	1	8
4	O	46/62 (74%)	42 (91%)	4 (9%)	9	33
All	All	1802/1887 (96%)	1505 (84%)	297 (16%)	2	13

All (297) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	P	21	ASP
1	P	38	PRO
2	A	2	ILE
2	A	3	VAL
2	A	9	SER
2	A	19	VAL
2	A	24	LYS
2	A	27	GLN
2	A	31	ASN
2	A	39	LEU
2	A	48	GLN
2	A	53	LEU
2	A	55	TYR
2	A	84	VAL
2	A	95	LYS
2	A	99	ILE
2	A	112	LEU
2	A	116	ASP
2	A	122	SER
2	A	142	LEU
2	A	147	PRO
2	A	180	SER
2	A	184	THR
2	A	187	LEU
2	A	205	LYS
2	A	210	PRO
2	A	212	VAL
2	A	216	ASN
3	B	5	VAL
3	B	10	GLU
3	B	11	LEU
3	B	20	ILE
3	B	31	ASP
3	B	39	GLN
3	B	51	VAL
3	B	58	PRO
3	B	59	THR
3	B	65	LYS
3	B	72	LEU
3	B	73	GLU
3	B	74	THR
3	B	85	SER

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Mol	Chain	Res	Type
3	B	90	ASP
3	B	108	TRP
3	B	113	THR
3	B	114	VAL
3	B	115	THR
3	B	120	LYS
3	B	128	PRO
3	B	136	GLN
3	B	168	VAL
3	B	179	LEU
3	B	182	LEU
3	B	186	VAL
3	B	194	PRO
3	B	196	GLU
3	B	202	VAL
3	B	211	VAL
3	B	212	ASP
3	B	215	ILE
3	B	217	PRO
4	L	25	VAL
4	L	26	ASN
4	L	28	ILE
4	L	44	GLU
4	L	47	THR
4	L	63	GLU
4	L	75	MET
4	L	82	LYS
2	C	2	ILE
2	C	13	VAL
2	C	19	VAL
2	C	27	GLN
2	C	35	ARG
2	C	36	LYS
2	C	39	LEU
2	C	50	PRO
2	C	53	LEU
2	C	55	TYR
2	C	60	ARG
2	C	69	THR
2	C	77	PHE
2	C	79	LEU
2	C	96	GLN

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Mol	Chain	Res	Type
2	C	120	THR
2	C	126	PRO
2	C	131	LEU
2	C	133	SER
2	C	137	SER
2	C	144	ASN
2	C	148	LYS
2	C	150	ILE
2	C	151	ASN
2	C	155	LYS
2	C	161	ARG
2	C	165	VAL
2	C	166	LEU
2	C	176	ASP
2	C	185	LEU
2	C	188	THR
2	C	195	HIS
2	C	196	ASN
2	C	205	LYS
2	C	210	PRO
2	C	211	ILE
2	C	218	ASN
3	D	6	GLN
3	D	7	SER
3	D	9	PRO
3	D	27	TYR
3	D	33	SER
3	D	43	LYS
3	D	46	ASN
3	D	52	ASN
3	D	89	GLU
3	D	93	THR
3	D	108	TRP
3	D	115	THR
3	D	122	THR
3	D	124	PRO
3	D	141	VAL
3	D	153	GLU
3	D	156	THR
3	D	157	VAL
3	D	168	VAL
3	D	178	ASP

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Mol	Chain	Res	Type
3	D	187	THR
3	D	197	THR
3	D	201	ASN
3	D	202	VAL
3	D	211	VAL
3	D	212	ASP
3	D	215	ILE
3	D	218	ARG
1	Q	5	PRO
1	Q	8	GLN
1	Q	9	ARG
1	Q	13	ARG
1	Q	19	PRO
1	Q	21	ASP
1	Q	36	LEU
1	Q	40	ARG
1	Q	44	LEU
4	M	23	ILE
4	M	31	ASP
4	M	34	ILE
4	M	36	THR
4	M	42	THR
4	M	65	THR
4	M	74	HIS
4	M	79	PHE
2	E	13	VAL
2	E	24	LYS
2	E	30	LEU
2	E	31	ASN
2	E	36	LYS
2	E	39	LEU
2	E	44	GLN
2	E	50	PRO
2	E	52	VAL
2	E	53	LEU
2	E	56	TRP
2	E	59	THR
2	E	66	ASP
2	E	69	THR
2	E	80	THR
2	E	88	ASP
2	E	89	GLN

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Mol	Chain	Res	Type
2	E	96	GLN
2	E	101	PRO
2	E	144	ASN
2	E	148	LYS
2	E	149	ASP
2	E	150	ILE
2	E	166	LEU
2	E	179	TYR
2	E	180	SER
2	E	181	MET
2	E	185	LEU
2	E	188	THR
2	E	199	THR
2	E	203	THR
2	E	205	LYS
2	E	208	THR
2	E	209	SER
3	F	7	SER
3	F	11	LEU
3	F	20	ILE
3	F	25	SER
3	F	33	SER
3	F	38	ASN
3	F	52	ASN
3	F	57	GLU
3	F	58	PRO
3	F	63	ASP
3	F	67	ARG
3	F	71	SER
3	F	102	ARG
3	F	103	GLN
3	F	114	VAL
3	F	115	THR
3	F	118	SER
3	F	139	SER
3	F	140	MET
3	F	141	VAL
3	F	154	PRO
3	F	158	THR
3	F	160	ASN
3	F	168	VAL
3	F	171	PHE

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Mol	Chain	Res	Type
3	F	176	GLN
3	F	182	LEU
3	F	188	VAL
3	F	197	THR
3	F	200	CYS
3	F	202	VAL
3	F	212	ASP
3	F	213	LYS
3	F	214	LYS
3	F	217	PRO
4	N	20	GLU
4	N	26	ASN
4	N	27	LEU
4	N	28	ILE
4	N	47	THR
4	N	49	GLU
4	N	57	HIS
4	N	65	THR
4	N	79	PHE
1	S	9	ARG
1	S	10	LYS
1	S	13	ARG
1	S	16	ASN
1	S	19	PRO
1	S	23	LYS
1	S	24	PHE
1	S	25	PRO
1	S	30	ILE
1	S	31	VAL
1	S	44	LEU
2	G	10	SER
2	G	20	THR
2	G	24	LYS
2	G	39	LEU
2	G	42	TYR
2	G	43	GLN
2	G	44	GLN
2	G	46	PRO
2	G	54	ILE
2	G	65	PRO
2	G	71	ARG
2	G	75	THR

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Mol	Chain	Res	Type
2	G	87	GLU
2	G	96	GLN
2	G	102	LEU
2	G	125	PRO
2	G	126	PRO
2	G	137	SER
2	G	150	ILE
2	G	151	ASN
2	G	160	GLU
2	G	167	ASN
2	G	194	ARG
2	G	213	LYS
2	G	217	ARG
2	G	218	ASN
3	H	2	ILE
3	H	9	PRO
3	H	11	LEU
3	H	17	THR
3	H	28	THR
3	H	31	ASP
3	H	41	PRO
3	H	45	LEU
3	H	52	ASN
3	H	54	GLU
3	H	59	THR
3	H	62	ASP
3	H	81	LEU
3	H	93	THR
3	H	104	TYR
3	H	114	VAL
3	H	122	THR
3	H	125	SER
3	H	129	LEU
3	H	141	VAL
3	H	154	PRO
3	H	175	LEU
3	H	176	GLN
3	H	181	THR
3	H	187	THR
3	H	209	THR
3	H	211	VAL
4	O	52	ARG

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Mol	Chain	Res	Type
4	O	57	HIS
4	O	61	ASN
4	O	65	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (76) such sidechains are listed below:

Mol	Chain	Res	Type
1	P	20	GLN
2	A	6	GLN
2	A	31	ASN
2	A	37	ASN
2	A	43	GLN
2	A	48	GLN
2	A	172	GLN
2	A	195	HIS
2	A	196	ASN
3	B	6	GLN
3	B	39	GLN
3	B	136	GLN
3	B	176	GLN
3	B	201	ASN
4	L	35	GLN
4	L	61	ASN
2	C	27	GLN
2	C	31	ASN
2	C	37	ASN
2	C	43	GLN
2	C	96	GLN
2	C	130	GLN
2	C	144	ASN
2	C	162	GLN
2	C	167	ASN
2	C	196	ASN
2	C	218	ASN
3	D	3	GLN
3	D	52	ASN
3	D	82	GLN
3	D	84	ASN
3	D	138	ASN
3	D	201	ASN
3	D	204	HIS
1	Q	8	GLN

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Mol	Chain	Res	Type
1	Q	14	ASN
1	Q	16	ASN
4	M	35	GLN
4	M	74	HIS
2	E	31	ASN
2	E	37	ASN
2	E	43	GLN
2	E	44	GLN
2	E	96	GLN
2	E	130	GLN
2	E	143	ASN
2	E	144	ASN
2	E	151	ASN
2	E	196	ASN
3	F	3	GLN
3	F	39	GLN
3	F	52	ASN
3	F	82	GLN
3	F	136	GLN
3	F	176	GLN
3	F	201	ASN
4	N	26	ASN
4	N	35	GLN
1	S	16	ASN
1	S	29	GLN
2	G	6	GLN
2	G	27	GLN
2	G	43	GLN
2	G	48	GLN
2	G	89	GLN
2	G	130	GLN
2	G	151	ASN
2	G	163	ASN
2	G	167	ASN
2	G	196	ASN
2	G	204	HIS
2	G	216	ASN
3	H	46	ASN
3	H	136	GLN
4	O	57	HIS
4	O	76	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
3	F	3
2	G	2
3	B	1
2	A	1
3	D	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	212:ASP	C	213:LYS	N	1.19
1	F	113:THR	C	114:VAL	N	1.19
1	F	131:PRO	C	132:GLY	N	1.19
1	F	193:TRP	C	194:PRO	N	1.19
1	A	171:ASP	C	172:GLN	N	1.17
1	G	110:LEU	C	111:GLU	N	1.17
1	D	169:HIS	C	170:THR	N	1.15

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	G	146:TYR	C	147:PRO	N	1.15

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, 95th 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	P	24/44 (54%)	-0.03	0 100 100	88, 139, 163, 172	0
1	Q	44/44 (100%)	-0.02	0 100 100	63, 126, 196, 211	0
1	S	44/44 (100%)	0.15	1 (2%) 61 37	69, 131, 193, 203	0
2	A	220/220 (100%)	-0.53	1 (0%) 87 68	29, 41, 78, 152	0
2	C	220/220 (100%)	-0.40	1 (0%) 87 68	29, 53, 109, 182	0
2	E	220/220 (100%)	-0.53	0 100 100	27, 40, 81, 135	0
2	G	219/220 (99%)	-0.42	0 100 100	28, 54, 107, 158	0
3	B	218/218 (100%)	-0.52	0 100 100	27, 40, 85, 180	0
3	D	218/218 (100%)	-0.52	2 (0%) 81 58	26, 47, 115, 165	0
3	F	218/218 (100%)	-0.57	0 100 100	26, 39, 78, 143	0
3	H	218/218 (100%)	-0.43	1 (0%) 87 68	27, 48, 111, 164	0
4	L	66/80 (82%)	-0.47	0 100 100	27, 49, 99, 163	0
4	M	62/80 (77%)	-0.36	0 100 100	28, 46, 84, 115	0
4	N	64/80 (80%)	-0.46	0 100 100	27, 50, 110, 151	0
4	O	62/80 (77%)	-0.47	0 100 100	30, 47, 81, 103	0
All	All	2117/2204 (96%)	-0.46	6 (0%) 90 76	26, 47, 126, 211	0

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	D	49	GLY	2.8
1	S	33	GLY	2.4
2	C	97	ALA	2.3
2	A	134	GLY	2.3
3	D	163	SER	2.0
3	H	161	SER	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](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.