



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 07:43 PM UTC

PDB ID : 1DLP / pdb_00001dlp
Title : STRUCTURAL CHARACTERIZATION OF THE NATIVE FETUIN-BINDING PROTEIN SCILLA CAMPANULATA AGGLUTININ (SCAFET): A NOVEL TWO-DOMAIN LECTIN
Authors : Wright, L.M.; Reynolds, C.D.; Rizkallah, P.J.; Allen, A.K.; VanDamme, E.J.M.; Donovan, M.J.; Peumans, W.J.
Deposited on : 1999-12-11
Resolution : 3.30 Å(reported)

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

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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)	:	NOT EXECUTED
EDS	:	NOT EXECUTED
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

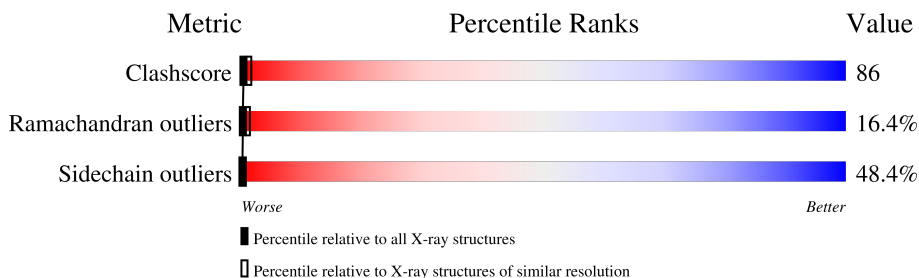
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.30 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))
Clashscore	190562	1209 (3.32-3.28)
Ramachandran outliers	187476	1188 (3.32-3.28)
Sidechain outliers	187428	1187 (3.32-3.28)

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 $\leq 5\%$.

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	236	11% 35% 53% .
1	B	236	11% 31% 51% 6%
1	C	236	17% 30% 52% .
1	D	236	9% 35% 50% 6%
1	E	236	. 11% 42% 44% .
1	F	236	12% 37% 42% 8%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 10431 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 LECTIN SCAFET PRECURSOR.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	233	Total	C	N	O	S	18	0	0
			1778	1102	322	347	7			
1	B	221	Total	C	N	O	S	21	0	0
			1694	1053	305	329	7			
1	C	234	Total	C	N	O	S	25	0	0
			1772	1097	323	345	7			
1	D	223	Total	C	N	O	S	28	0	0
			1702	1057	307	331	7			
1	E	231	Total	C	N	O	S	17	0	0
			1759	1093	318	341	7			
1	F	216	Total	C	N	O	S	40	0	0
			1659	1034	298	320	7			

- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	19	Total	O	0	0
			19	19		
2	B	15	Total	O	0	0
			15	15		
2	C	6	Total	O	0	0
			6	6		
2	D	8	Total	O	0	0
			8	8		
2	E	8	Total	O	0	0
			8	8		
2	F	11	Total	O	0	0
			11	11		

Note EDS was not executed.

[illegible]

Chain B:

Amino Acid	Percentage
M1	11%
M2	11%
M3	11%
M4	11%
M5	11%
M6	11%
M7	11%
M8	11%
M9	11%
M10	11%
M11	11%
M12	11%
M13	11%
M14	11%
M15	11%
M16	11%
M17	11%
M18	11%
M19	11%
M20	11%
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M198	11%
M199	11%
M200	11%
M201	11%
M202	11%
M203	11%
M204	11%

Chain C:

Node	Category	Percentage
N1	Red	52%
N2	Red	52%
N3	Red	52%
N4	Red	52%
N5	Red	52%
N6	Red	52%
N7	Red	52%
N8	Red	52%
N9	Red	52%
N10	Red	52%
N11	Red	52%
N12	Red	52%
N13	Red	52%
N14	Red	52%
N15	Red	52%
N16	Red	52%
N17	Red	52%
N18	Red	52%
N19	Red	52%
N20	Red	52%
N21	Red	52%
N22	Red	52%
N23	Red	52%
N24	Red	52%
N25	Red	52%
N26	Red	52%
N27	Red	52%
N28	Red	52%
N29	Red	52%
N30	Red	52%
N31	Red	52%
N32	Red	52%
N33	Red	52%
N34	Red	52%
N35	Red	52%
N36	Red	52%
N37	Red	52%
N38	Red	52%
N39	Red	52%
N40	Red	52%
N41	Red	52%
N42	Red	52%
N43	Red	52%
N44	Red	52%
N45	Red	52%
N46	Red	52%
N47	Red	52%
N48	Red	52%
N49	Red	52%
N50	Red	52%
N51	Red	52%
N52	Red	52%
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N107	Red	52%
N108	Red	52%
N109	Red	52%
N110	Red	52%
N111	Red	52%
N112	Red	52%
N113	Red	52%
N114	Red	52%
N115	Red	52%
N116	Red	52%
N117	Red	52%
N118	Red	52%
N119	Red	52%
N120	Red	52%

A121	M122	G182	T181
M123	G183	G184	G185
G186	A185	V186	L187
L188	P189	Y189	S190
S191	G191	R192	G193
G194	ASN	ASP	M136
M137	P137	H138	Q139
Q140	T140	L141	H142
H143	A143	W144	T204
T205	Q145	S146	L147
L148	Q149	S209	R210
S211	P151	A212	Y152
Y153	L154	Y215	S155
S156	M156	F217	E157
E158	T158	L219	Q220
Q221	P221	D222	L162
L163	V163	R223	L164
L165	F165	L225	A226
A227	Y228	D229	G230
G231	W171	A231	L232
L233	S173	T234	T235
T236	M175	T176	A177
A178	G178	K179	G180

• Molecule 1: LECTIN SCAFET PRECURSOR

Chain D: 9% 35% 50% 6%

N1	N2	I3	F4	G5	L6	S7	H8	E9	L10	S11	H12	P13	Q14	T15	H16	H17	H18	A19	A20	Q21	S22	L23	E24	G25	S26	S27	F28	N29	F30	T31	R32	Q33	S34	D35	C36	N37	R38	L39	V39	L40	F41	D42	S43	G44	V45	R46	L47	W48	A49	S50	N51	T52	A53	G54	L55	T56	S57	C58	K59	VAL	VAL
V61	L62	Q63	S64	D65	G66	L67	L68	V69	I70	L71	T72	A73	Q74	M75	L76	R77	R78	W79	S80	S81	G82	T83	K84	G85	S86	L87	G88	N89	Y90	V91	L92	Y93	L94	Q95	P96	D97	R98	T99	V100	T101	I102	Y103	G104	P105	G106	L107	D108	D109	S110	G111	T112	S113	N114	L115	GLY	SER	VAL	VAL	VAL		
ALA	ASN	M123	G124	N125	S126	L127	L128	Y129	S130	T131	GLN	GLY	ASN	ASP	M136	H137	P138	Q139	T140	L141	H142	A143	W144	Q145	S146	L147	Q148	L149	S150	P151	Y152	R153	L154	S155	M156	F157	T158	D159	C160	N161	L162	V163	L164	F165	D166	R167	D168	D169	R170	V171	W172	S173	T174	N175	T176	A177	G178	K179	G180		

• Molecule 1: LECTIN SCAFET PRECURSOR

Chain E: 11% 42% 44%

N1	N2	I3	F5	G6	L7	S8	H9	E10	L11	S12	H13	P14	Q15	T16	L17	H18	A19	A20	Q21	S22	L23	E24	G25	S26	S27	F28	N29	F30	T31	R32	Q33	S34	D35	C36	N37	R38	L39	V39	L40	F41	D42	S43	G44	V45	R46	L47	W48	A49	S50	N51	T52	A53	G54	L55	T56	S57	C58	K59	V120
V61	L62	Q63	S64	D65	G66	L67	L68	V69	I70	L71	T72	A73	Q74	M75	L76	R77	R78	W79	S80	S81	G82	T83	K84	G85	S86	L87	G88	N89	Y90	V91	L92	Y93	L94	Q95	P96	D97	R98	T99	V100	T101	I102	Y103	G104	P105	G106	L107	D108	D109	S110	G111	T112	S113	N114	K115	L116	S117	V118	V119	V120
A121	M122	G123	G124	N125	S126	L127	L128	Y129	S130	T131	GLN	GLY	ASN	ASP	M136	H137	P138	Q139	T140	L141	H142	A143	W144	Q145	S146	L147	Q148	L149	S150	P151	Y152	R153	L154	S155	M156	F157	T158	D159	C160	N161	L162	V163	L164	F165	D166	R167	D168	D169	R170	V171	W172	S173	T174	N175	T176	A177	G178	K179	G180
T181	G182	R183	L184	A185	V186	L187	Q188	P189	M190	G191	R192	M193	D194	V195	L196	T197	N198	Q199	N200	L201	A202	V203	W204	T205	S206	G207	N208	S209	R210	S211	A212	G213	R214	Y215	V216	F217	V218	L219	Q220	P221	D222	R223	W224	L225	A226	Y227	Y228	G229	G230	A231	L232	W233	T234	T235	GLY				

• Molecule 1: LECTIN SCAFET PRECURSOR

Chain F: 12% 37% 42% 8%

N1	N2	I3	F5	G6	L7	S8	H9	E10	L11	S12	H13	P14	Q15	T16	L17	H18	A19	A20	Q21	S22	L23	E24	G25	S26	S27	F28	N29	F30	T31	R32	Q33	S34	D35	C36	N37	R38	L39	V39	L40	F41	D42	S43	G44	V45	R46	L47	W48	A49	S50	N51	T52	A53	G54	L55	T56	S57	C58	K59	VAL	
V61	L62	Q63	S64	D65	G66	L67	L68	V69	I70	L71	T72	A73	Q74	M75	L76	R77	R78	W79	S80	S81	G82	T83	K84	G85	S86	L87	G88	N89	Y90	V91	L92	Y93	L94	Q95	P96	D97	R98	T99	V100	T101	I102	Y103	G104	P105	G106	L107	W108	D109	A49	S110	G111	THR	SER	ASN	G54	L55	GLY	SER	VAL	VAL
ALA	ASN	ASN	G124	N125	S126	L127	L128	Y129	S130	T131	GLN	GLY	ASN	ASP	M136	H137	P138	Q139	T140	L141	H142	A143	W144	Q145	S146	L147	Q148	L149	S150	P151	Y152	R153	L154	S155	M156	F157	T158	D159	C160	N161	L162	V163	L164	F165	D166	R167	D168	D169	R170	V171	W172	S173	T174	N175	T176	ALA	GLY	LYS	VAL	G180
T181	G182	R183	L184	A185	V186	L187	Q188	P189	M190	G191	R192	M193	D194	V195	L196	T197	N198	Q199	N200	L201	A202	V203	W204	T205	S206	G207	N208	S209	R210	S211	A212	G213	R214	Y215	V216	F217	V218	L219	Q220	P221	D222	R223	W224	L225	A226	Y227	Y228	G229	G230	A231	L232	W233	T234	T235	GLY					

4 Data and refinement statistics

Xtriage (Phenix) and EDS were not executed - this section is therefore incomplete.

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	277.94Å 164.10Å 53.60Å 90.00° 95.38° 90.00°	Depositor
Resolution (Å)	20.00 – 3.30	Depositor
% Data completeness (in resolution range)	95.3 (20.00-3.30)	Depositor
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
Refinement program	REFMAC	Depositor
R, R_{free}	0.189 , 0.293	Depositor
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	10431	wwPDB-VP
Average B, all atoms (Å ²)	27.0	wwPDB-VP

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	A	3.27	209/1812 (11.5%)	8.06	1086/2470 (44.0%)
1	B	3.25	188/1726 (10.9%)	8.17	1068/2351 (45.4%)
1	C	3.04	138/1805 (7.6%)	7.69	1054/2459 (42.9%)
1	D	3.82	191/1735 (11.0%)	8.75	1128/2365 (47.7%)
1	E	2.75	130/1793 (7.3%)	7.27	988/2444 (40.4%)
1	F	2.80	114/1691 (6.7%)	8.06	992/2303 (43.1%)
All	All	3.17	970/10562 (9.2%)	8.01	6316/14392 (43.9%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	2	60
1	B	2	73
1	C	0	66
1	D	0	51
1	E	0	39
1	F	2	53
All	All	6	342

All (970) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	1	ASN	CG-ND2	59.49	2.58	1.33
1	D	78	ARG	CG-CD	38.85	2.69	1.52
1	C	168	ASP	CG-OD1	36.39	1.94	1.25
1	D	167	ARG	CD-NE	-35.41	0.96	1.46
1	F	224	ASN	CA-CB	-30.70	1.01	1.53
1	A	44	ASP	CB-CG	-28.76	0.80	1.52
1	C	9	HIS	CB-CG	-25.82	1.14	1.50
1	C	44	ASP	CA-CB	24.68	1.89	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	59	ARG	CD-NE	-22.65	1.14	1.46
1	E	168	ASP	CA-CB	-22.47	1.15	1.53
1	A	136	ASN	CB-CG	-22.39	0.96	1.52
1	D	230	GLY	N-CA	-19.02	1.17	1.45
1	D	84	LYS	CG-CD	-18.61	0.96	1.52
1	D	12	SER	C-O	-18.59	1.00	1.24
1	E	46	ARG	CA-CB	-18.55	1.27	1.52
1	D	8	SER	C-O	18.49	1.47	1.24
1	E	136	ASN	CA-CB	17.28	1.88	1.53
1	D	229	GLY	N-CA	-17.21	1.29	1.45
1	E	232	LEU	CA-C	-16.23	1.31	1.52
1	B	61	VAL	C-N	15.80	1.54	1.33
1	A	187	LEU	N-CA	-15.61	1.27	1.46
1	D	210	ARG	CB-CG	-15.35	1.06	1.52
1	A	59	ARG	CZ-NH1	15.17	1.53	1.32
1	B	60	ALA	CA-C	-14.95	1.35	1.52
1	A	142	HIS	N-CA	-14.84	1.36	1.46
1	B	61	VAL	N-CA	14.72	1.64	1.46
1	A	139	GLN	C-N	14.66	1.52	1.33
1	B	61	VAL	C-O	-14.34	1.07	1.24
1	D	105	PRO	N-CA	-13.62	1.31	1.46
1	B	129	TYR	N-CA	-13.55	1.32	1.46
1	C	142	HIS	N-CA	-13.39	1.37	1.46
1	B	225	LEU	C-N	-13.35	1.15	1.33
1	B	64	SER	N-CA	12.94	1.62	1.46
1	E	231	ALA	CA-CB	-12.85	1.31	1.53
1	E	61	VAL	N-CA	12.77	1.62	1.46
1	C	167	ARG	CA-CB	-12.76	1.31	1.53
1	A	131	THR	CB-OG1	12.75	1.64	1.43
1	D	217	PHE	C-O	-12.72	1.07	1.23
1	C	46	ARG	CA-CB	-12.70	1.32	1.53
1	B	12	SER	CB-OG	-12.69	1.16	1.42
1	A	215	TYR	N-CA	-12.63	1.29	1.45
1	D	64	SER	CB-OG	12.41	1.67	1.42
1	B	60	ALA	C-O	12.27	1.40	1.23
1	D	105	PRO	N-CD	11.99	1.64	1.47
1	F	8	SER	C-O	11.99	1.39	1.24
1	B	18	HIS	N-CA	-11.96	1.30	1.46
1	B	30	PHE	C-N	-11.89	1.16	1.33
1	B	57	GLY	N-CA	-11.71	1.28	1.45
1	D	194	ASP	N-CA	-11.46	1.32	1.46
1	C	168	ASP	CG-OD2	11.40	1.47	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	207	GLY	N-CA	-11.26	1.29	1.45
1	E	131	THR	C-O	11.21	1.46	1.23
1	A	92	LEU	C-O	-11.13	1.10	1.23
1	B	194	ASP	N-CA	-11.07	1.33	1.46
1	E	233	TRP	N-CA	11.00	1.58	1.46
1	B	55	ALA	C-O	10.92	1.35	1.23
1	E	131	THR	CA-C	10.91	1.75	1.52
1	D	221	PRO	CA-CB	-10.89	1.37	1.53
1	D	198	ASN	CA-CB	-10.88	1.35	1.53
1	A	137	HIS	ND1-CE1	-10.85	1.21	1.32
1	A	101	THR	CB-OG1	-10.80	1.26	1.43
1	D	6	GLY	CA-C	10.80	1.59	1.52
1	B	138	PRO	N-CD	-10.79	1.32	1.47
1	B	54	GLY	C-N	10.74	1.48	1.33
1	D	5	PHE	C-N	-10.73	1.26	1.33
1	B	32	MET	SD-CE	-10.65	1.52	1.79
1	A	180	GLY	N-CA	-10.64	1.29	1.45
1	B	66	GLY	C-O	10.59	1.38	1.23
1	A	63	GLN	CA-C	-10.52	1.41	1.53
1	B	54	GLY	C-O	10.43	1.38	1.23
1	C	136	ASN	N-CA	10.36	1.66	1.46
1	B	87	ILE	N-CA	-10.33	1.33	1.46
1	B	216	VAL	CA-C	-10.28	1.39	1.52
1	A	83	THR	C-N	-10.24	1.21	1.33
1	F	105	PRO	N-CA	-10.23	1.29	1.47
1	F	14	PRO	N-CA	-10.22	1.34	1.47
1	F	170	ARG	CB-CG	-10.21	1.21	1.52
1	C	231	ALA	N-CA	-10.18	1.33	1.46
1	B	110	SER	N-CA	-10.16	1.32	1.46
1	D	229	GLY	CA-C	-10.14	1.41	1.52
1	D	89	ASN	CG-ND2	10.10	1.54	1.33
1	A	12	SER	C-O	-10.06	1.11	1.24
1	A	130	SER	CA-C	10.04	1.64	1.52
1	C	142	HIS	CA-C	-10.03	1.48	1.53
1	A	194	ASP	CA-CB	-9.99	1.34	1.54
1	A	186	VAL	C-N	9.96	1.46	1.33
1	D	35	ASP	CA-C	-9.92	1.40	1.53
1	A	25	LEU	C-N	-9.92	1.19	1.33
1	D	168	ASP	CA-CB	9.91	1.70	1.53
1	E	85	GLY	C-N	-9.91	1.19	1.33
1	D	34	SER	CA-C	-9.90	1.38	1.52
1	C	138	PRO	C-N	9.81	1.47	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	15	GLN	C-O	9.80	1.37	1.24
1	B	8	SER	C-N	-9.71	1.19	1.33
1	B	5	PHE	C-O	9.71	1.36	1.23
1	C	132	GLN	CA-CB	-9.71	1.44	1.53
1	F	130	SER	C-N	9.64	1.46	1.33
1	B	223	ARG	N-CA	-9.58	1.33	1.46
1	C	59	ARG	CZ-NH1	9.57	1.46	1.32
1	A	68	LEU	C-O	-9.54	1.12	1.24
1	A	114	ASN	N-CA	-9.48	1.35	1.46
1	D	106	GLY	C-O	9.48	1.36	1.23
1	D	174	THR	N-CA	-9.48	1.33	1.46
1	C	229	GLY	C-N	-9.46	1.19	1.33
1	D	187	LEU	C-O	-9.46	1.12	1.24
1	B	231	ALA	N-CA	-9.46	1.33	1.46
1	B	150	SER	CA-CB	-9.44	1.38	1.53
1	A	232	LEU	N-CA	-9.44	1.34	1.46
1	D	20	ALA	N-CA	9.44	1.58	1.46
1	D	142	HIS	N-CA	-9.41	1.34	1.46
1	D	14	PRO	N-CA	-9.41	1.35	1.47
1	B	95	GLN	CA-C	-9.29	1.41	1.52
1	D	69	VAL	C-N	-9.29	1.22	1.33
1	A	100	VAL	CA-CB	9.29	1.69	1.55
1	B	147	LEU	CB-CG	-9.27	1.34	1.53
1	A	156	MET	SD-CE	-9.25	1.56	1.79
1	F	194	ASP	N-CA	-9.24	1.34	1.46
1	B	105	PRO	N-CA	-9.15	1.35	1.47
1	B	149	LEU	N-CA	-9.13	1.35	1.46
1	A	87	ILE	CA-C	-9.12	1.41	1.52
1	B	25	LEU	CA-C	9.11	1.64	1.52
1	B	72	THR	N-CA	-9.09	1.34	1.45
1	D	61	VAL	C-N	-9.08	1.21	1.33
1	B	222	ASP	C-N	-9.07	1.21	1.33
1	A	189	PRO	CA-CB	-9.05	1.40	1.53
1	A	9	HIS	N-CA	-9.04	1.34	1.46
1	D	150	SER	N-CA	9.04	1.58	1.46
1	A	231	ALA	N-CA	-9.04	1.34	1.46
1	A	220	GLN	CA-C	-9.04	1.41	1.52
1	D	146	SER	C-O	9.02	1.35	1.24
1	A	199	GLN	N-CA	-9.01	1.34	1.46
1	C	83	THR	C-N	-9.00	1.21	1.33
1	D	52	THR	N-CA	-9.00	1.35	1.46
1	D	85	GLY	N-CA	8.99	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	105	PRO	CA-CB	8.99	1.65	1.53
1	D	9	HIS	N-CA	-8.97	1.34	1.46
1	B	47	VAL	N-CA	-8.96	1.36	1.46
1	E	183	CYS	N-CA	-8.95	1.34	1.46
1	A	59	ARG	NE-CZ	8.94	1.42	1.33
1	D	15	GLN	CA-CB	-8.92	1.41	1.54
1	B	109	ASP	N-CA	-8.90	1.35	1.45
1	F	2	ASN	N-CA	-8.88	1.38	1.46
1	D	227	ILE	C-N	-8.83	1.21	1.33
1	D	183	CYS	C-N	-8.82	1.21	1.33
1	D	44	ASP	C-N	-8.79	1.21	1.33
1	A	59	ARG	CZ-NH2	8.77	1.44	1.33
1	B	235	THR	C-O	8.74	1.41	1.23
1	D	136	ASN	N-CA	8.73	1.62	1.46
1	B	191	GLY	CA-C	-8.72	1.39	1.51
1	E	10	GLU	N-CA	-8.71	1.34	1.46
1	B	60	ALA	C-N	-8.71	1.21	1.33
1	D	233	TRP	CA-CB	-8.65	1.39	1.53
1	B	185	ALA	C-N	-8.65	1.23	1.33
1	F	150	SER	CA-C	-8.65	1.42	1.52
1	F	167	ARG	CA-CB	8.64	1.65	1.53
1	B	138	PRO	CA-CB	-8.63	1.42	1.53
1	F	128	LEU	C-N	-8.62	1.21	1.33
1	C	196	LEU	CB-CG	-8.61	1.36	1.53
1	A	125	ASN	N-CA	-8.61	1.35	1.46
1	D	126	SER	CA-CB	-8.55	1.40	1.53
1	B	184	ARG	CD-NE	-8.52	1.34	1.46
1	A	230	GLY	C-N	-8.52	1.21	1.33
1	A	6	GLY	N-CA	8.51	1.56	1.44
1	B	192	ARG	CD-NE	-8.51	1.34	1.46
1	C	130	SER	CB-OG	-8.50	1.25	1.42
1	C	174	THR	CA-C	-8.47	1.41	1.52
1	E	64	SER	CA-C	-8.45	1.41	1.52
1	F	9	HIS	CG-ND1	8.45	1.47	1.38
1	D	233	TRP	CG-CD1	-8.44	1.15	1.36
1	E	96	PRO	C-O	-8.43	1.13	1.24
1	D	98	ARG	CZ-NH1	8.42	1.44	1.32
1	C	141	LEU	CA-CB	-8.38	1.40	1.53
1	C	88	GLY	N-CA	8.34	1.57	1.45
1	A	102	ILE	CA-C	-8.32	1.42	1.52
1	B	160	CYS	N-CA	-8.30	1.35	1.46
1	B	39	VAL	C-O	-8.30	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	61	VAL	N-CA	8.29	1.56	1.46
1	F	2	ASN	CA-C	8.28	1.63	1.53
1	C	130	SER	C-O	-8.28	1.13	1.24
1	D	147	LEU	N-CA	8.26	1.56	1.46
1	C	92	LEU	CA-CB	8.24	1.65	1.53
1	D	107	LEU	C-O	-8.24	1.13	1.24
1	E	33	GLN	C-N	-8.23	1.24	1.33
1	C	192	ARG	CA-CB	-8.20	1.41	1.53
1	A	2	ASN	CA-C	-8.19	1.41	1.52
1	A	130	SER	C-O	-8.15	1.14	1.24
1	C	139	GLN	CA-CB	-8.14	1.42	1.53
1	B	225	LEU	CA-CB	-8.13	1.40	1.53
1	C	59	ARG	NE-CZ	8.12	1.42	1.33
1	B	59	ARG	CA-CB	-8.08	1.40	1.53
1	F	146	SER	CA-C	-8.08	1.43	1.52
1	D	2	ASN	N-CA	-8.07	1.36	1.46
1	F	7	LEU	C-O	8.07	1.34	1.24
1	A	188	GLN	C-O	-8.06	1.14	1.24
1	D	28	PHE	N-CA	-8.06	1.35	1.46
1	B	125	ASN	C-O	-8.06	1.13	1.24
1	A	103	TYR	C-O	-8.05	1.13	1.23
1	D	25	LEU	C-N	8.04	1.44	1.33
1	B	137	HIS	CA-C	-8.03	1.43	1.52
1	A	138	PRO	N-CA	-8.02	1.37	1.47
1	F	184	ARG	N-CA	-8.00	1.34	1.45
1	D	196	LEU	CA-CB	-7.99	1.41	1.53
1	B	190	ASN	N-CA	-7.97	1.35	1.46
1	D	230	GLY	C-O	7.97	1.34	1.23
1	E	219	LEU	N-CA	-7.97	1.36	1.46
1	D	130	SER	C-N	7.96	1.44	1.33
1	D	74	GLN	N-CA	-7.95	1.36	1.46
1	D	66	GLY	C-O	7.93	1.33	1.24
1	B	228	TYR	C-N	-7.92	1.22	1.33
1	B	107	LEU	N-CA	7.92	1.56	1.46
1	A	235	THR	C-O	7.87	1.39	1.23
1	A	166	ASP	C-N	-7.86	1.22	1.33
1	C	137	HIS	C-O	-7.85	1.17	1.24
1	B	74	GLN	N-CA	-7.84	1.35	1.46
1	D	21	GLN	CA-CB	-7.84	1.38	1.53
1	B	98	ARG	CZ-NH2	7.84	1.43	1.33
1	E	86	SER	N-CA	-7.84	1.36	1.46
1	A	140	THR	C-O	-7.83	1.13	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	229	GLY	C-N	-7.82	1.22	1.33
1	F	66	GLY	C-O	7.82	1.35	1.23
1	B	97	ASP	CA-CB	-7.79	1.43	1.53
1	C	205	THR	C-O	7.78	1.33	1.23
1	C	11	GLY	CA-C	-7.78	1.41	1.51
1	A	128	LEU	N-CA	-7.76	1.36	1.46
1	A	23	LEU	CB-CG	-7.76	1.38	1.53
1	A	24	GLU	C-O	-7.76	1.14	1.24
1	C	58	CYS	CA-CB	-7.75	1.40	1.53
1	F	131	THR	C-O	7.75	1.39	1.23
1	B	24	GLU	N-CA	-7.73	1.36	1.46
1	B	95	GLN	C-N	-7.73	1.24	1.34
1	E	5	PHE	C-O	7.72	1.33	1.24
1	D	17	LEU	N-CA	7.71	1.55	1.46
1	E	158	THR	C-O	-7.69	1.14	1.23
1	A	17	LEU	CA-CB	-7.68	1.42	1.53
1	A	182	GLY	CA-C	-7.68	1.41	1.51
1	B	107	LEU	CA-C	-7.64	1.42	1.52
1	F	31	THR	N-CA	-7.63	1.36	1.45
1	C	181	THR	N-CA	-7.63	1.39	1.46
1	D	62	LEU	N-CA	-7.63	1.37	1.46
1	A	12	SER	CA-CB	-7.62	1.42	1.53
1	D	95	GLN	CA-C	-7.61	1.43	1.53
1	F	13	HIS	CG-ND1	7.59	1.46	1.38
1	A	131	THR	C-O	7.58	1.38	1.23
1	D	107	LEU	C-N	-7.58	1.24	1.33
1	C	188	GLN	CA-C	-7.58	1.44	1.53
1	F	81	SER	CB-OG	-7.57	1.27	1.42
1	D	92	LEU	C-O	7.55	1.33	1.24
1	D	102	ILE	C-N	-7.55	1.23	1.33
1	A	90	TYR	CA-C	-7.54	1.43	1.52
1	E	139	GLN	C-O	-7.54	1.14	1.24
1	E	103	TYR	N-CA	7.53	1.55	1.45
1	B	63	GLN	C-O	-7.52	1.13	1.23
1	C	199	GLN	N-CA	-7.52	1.35	1.46
1	C	138	PRO	C-O	7.51	1.33	1.24
1	C	167	ARG	N-CA	7.50	1.55	1.46
1	C	228	TYR	C-O	-7.50	1.15	1.24
1	D	233	TRP	CB-CG	-7.49	1.27	1.50
1	C	156	MET	SD-CE	-7.49	1.60	1.79
1	B	212	ALA	C-N	7.48	1.41	1.32
1	E	39	VAL	C-O	-7.48	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	214	ARG	NE-CZ	7.48	1.41	1.33
1	A	60	ALA	C-O	7.47	1.33	1.24
1	E	64	SER	C-O	-7.47	1.14	1.24
1	A	141	LEU	C-N	7.46	1.39	1.33
1	B	64	SER	C-N	-7.45	1.23	1.33
1	B	193	MET	CA-CB	-7.45	1.41	1.53
1	F	13	HIS	CE1-NE2	7.45	1.40	1.32
1	E	209	SER	C-N	-7.45	1.23	1.33
1	D	92	LEU	CA-C	7.44	1.62	1.52
1	C	186	VAL	C-N	-7.44	1.23	1.33
1	A	70	ILE	CA-C	-7.44	1.44	1.52
1	C	174	THR	CA-CB	-7.43	1.41	1.53
1	E	84	LYS	C-N	-7.43	1.26	1.33
1	B	63	GLN	CA-C	-7.43	1.42	1.53
1	D	139	GLN	CA-CB	-7.41	1.42	1.53
1	A	156	MET	CA-CB	-7.40	1.43	1.53
1	D	108	TRP	CA-C	-7.40	1.43	1.52
1	D	77	ILE	CG1-CD1	7.40	1.80	1.51
1	F	98	ARG	NE-CZ	7.40	1.41	1.33
1	B	68	LEU	C-N	7.40	1.44	1.33
1	F	129	TYR	N-CA	-7.39	1.36	1.46
1	A	92	LEU	CA-C	7.39	1.61	1.53
1	C	219	LEU	CA-CB	-7.39	1.43	1.53
1	D	217	PHE	N-CA	7.38	1.54	1.45
1	A	138	PRO	N-CD	7.35	1.58	1.47
1	D	184	ARG	N-CA	-7.35	1.36	1.45
1	F	125	ASN	N-CA	-7.35	1.36	1.46
1	E	141	LEU	CB-CG	-7.34	1.38	1.53
1	E	167	ARG	CB-CG	-7.34	1.30	1.52
1	E	230	GLY	N-CA	7.32	1.52	1.46
1	C	147	LEU	N-CA	-7.31	1.36	1.46
1	A	221	PRO	N-CA	7.29	1.56	1.47
1	B	125	ASN	N-CA	-7.29	1.36	1.46
1	F	141	LEU	C-O	-7.28	1.15	1.23
1	B	108	TRP	C-N	-7.27	1.23	1.33
1	B	86	SER	C-O	-7.26	1.14	1.24
1	E	74	GLN	N-CA	-7.26	1.36	1.46
1	E	6	GLY	N-CA	7.26	1.55	1.45
1	E	227	ILE	C-O	-7.26	1.16	1.24
1	D	71	LEU	N-CA	-7.25	1.37	1.46
1	D	64	SER	CA-CB	-7.24	1.43	1.53
1	C	180	GLY	N-CA	-7.23	1.36	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	207	GLY	C-N	-7.20	1.24	1.33
1	F	195	VAL	CA-C	-7.20	1.43	1.52
1	E	138	PRO	N-CA	-7.19	1.38	1.47
1	E	220	GLN	CA-C	-7.19	1.44	1.52
1	A	142	HIS	CA-C	-7.18	1.49	1.53
1	E	147	LEU	N-CA	7.18	1.55	1.46
1	C	171	VAL	CA-CB	-7.18	1.46	1.54
1	D	219	LEU	N-CA	7.18	1.55	1.46
1	A	227	ILE	C-O	-7.16	1.16	1.24
1	A	233	TRP	NE1-CE2	-7.15	1.29	1.37
1	F	3	ILE	N-CA	-7.15	1.37	1.46
1	A	105	PRO	N-CA	-7.14	1.38	1.47
1	A	143	ALA	CA-C	-7.14	1.44	1.52
1	D	72	THR	CA-C	-7.13	1.43	1.53
1	F	189	PRO	C-N	-7.13	1.23	1.33
1	E	20	ALA	CA-CB	-7.12	1.40	1.53
1	C	174	THR	C-N	-7.12	1.23	1.33
1	A	166	ASP	C-O	-7.11	1.15	1.24
1	C	19	ALA	CA-C	-7.11	1.42	1.52
1	D	48	TRP	CA-CB	-7.11	1.42	1.53
1	C	145	GLN	C-N	-7.09	1.23	1.33
1	C	99	THR	CA-C	-7.09	1.46	1.53
1	F	70	ILE	N-CA	-7.08	1.37	1.46
1	F	225	LEU	N-CA	-7.07	1.37	1.46
1	F	210	ARG	CB-CG	7.07	1.73	1.52
1	F	98	ARG	CZ-NH1	7.06	1.42	1.32
1	E	130	SER	CB-OG	7.06	1.56	1.42
1	D	171	VAL	CA-C	-7.06	1.45	1.52
1	F	20	ALA	N-CA	7.05	1.54	1.46
1	B	78	ARG	NE-CZ	7.05	1.40	1.33
1	A	17	LEU	N-CA	-7.04	1.37	1.46
1	B	149	LEU	C-O	7.03	1.32	1.24
1	A	188	GLN	N-CA	7.02	1.56	1.46
1	A	126	SER	CB-OG	-7.02	1.28	1.42
1	B	22	SER	CA-CB	7.02	1.65	1.53
1	F	152	TYR	N-CA	-7.02	1.37	1.46
1	F	233	TRP	CA-CB	-7.01	1.43	1.53
1	B	193	MET	C-N	-7.01	1.25	1.33
1	C	202	ALA	C-N	-7.01	1.24	1.33
1	F	34	SER	CA-CB	7.01	1.66	1.53
1	B	20	ALA	C-O	-6.98	1.14	1.24
1	D	12	SER	CB-OG	-6.98	1.28	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	215	TYR	CA-CB	-6.97	1.43	1.53
1	D	23	LEU	CB-CG	-6.95	1.39	1.53
1	E	125	ASN	N-CA	-6.94	1.37	1.46
1	E	11	GLY	CA-C	-6.92	1.43	1.51
1	F	94	LEU	N-CA	6.92	1.54	1.46
1	F	2	ASN	C-O	6.91	1.31	1.24
1	B	149	LEU	CA-C	6.91	1.59	1.52
1	B	191	GLY	C-O	6.91	1.33	1.23
1	A	135	ASP	N-CA	-6.91	1.38	1.46
1	F	103	TYR	N-CA	-6.91	1.37	1.46
1	C	60	ALA	C-O	-6.90	1.16	1.24
1	B	12	SER	N-CA	-6.90	1.37	1.46
1	C	186	VAL	C-O	-6.89	1.17	1.24
1	A	139	GLN	CA-CB	-6.89	1.43	1.54
1	B	150	SER	N-CA	6.89	1.55	1.46
1	F	60	ALA	CA-C	-6.89	1.43	1.52
1	B	198	ASN	CA-C	-6.88	1.43	1.52
1	D	34	SER	C-N	-6.88	1.24	1.33
1	E	35	ASP	CA-C	-6.88	1.46	1.53
1	B	87	ILE	CA-CB	-6.87	1.45	1.54
1	B	97	ASP	N-CA	-6.87	1.38	1.46
1	A	86	SER	C-N	6.85	1.43	1.33
1	B	15	GLN	CA-CB	-6.85	1.43	1.54
1	F	78	ARG	CG-CD	-6.84	1.31	1.52
1	F	6	GLY	CA-C	6.83	1.61	1.51
1	D	108	TRP	C-O	6.83	1.32	1.23
1	B	90	TYR	CG-CD1	-6.83	1.25	1.39
1	F	30	PHE	C-N	-6.83	1.24	1.33
1	C	189	PRO	CA-CB	-6.83	1.44	1.53
1	A	171	VAL	C-O	-6.82	1.16	1.24
1	B	1	ASN	CG-OD1	6.82	1.36	1.23
1	C	47	VAL	N-CA	-6.82	1.37	1.46
1	C	192	ARG	C-N	6.82	1.43	1.33
1	C	145	GLN	CA-CB	-6.81	1.41	1.53
1	E	13	HIS	CA-C	-6.80	1.44	1.52
1	A	62	LEU	CA-C	-6.78	1.44	1.52
1	D	210	ARG	C-O	-6.78	1.15	1.24
1	E	26	SER	CA-C	-6.77	1.43	1.52
1	F	196	LEU	N-CA	6.76	1.54	1.46
1	C	75	ASN	N-CA	-6.76	1.36	1.46
1	E	136	ASN	N-CA	6.76	1.59	1.46
1	A	136	ASN	CA-C	-6.76	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	61	VAL	CA-C	6.75	1.61	1.52
1	B	90	TYR	C-O	6.75	1.32	1.23
1	F	6	GLY	C-O	6.75	1.33	1.23
1	C	146	SER	N-CA	-6.74	1.37	1.46
1	B	108	TRP	C-O	-6.73	1.16	1.23
1	C	8	SER	C-O	6.73	1.32	1.24
1	B	232	LEU	CA-C	-6.72	1.43	1.52
1	A	69	VAL	N-CA	-6.72	1.38	1.46
1	A	76	THR	N-CA	-6.72	1.37	1.46
1	A	197	THR	C-O	-6.72	1.15	1.23
1	A	214	ARG	C-O	-6.71	1.15	1.23
1	F	125	ASN	C-N	-6.69	1.24	1.33
1	C	139	GLN	CA-C	-6.68	1.44	1.53
1	B	59	ARG	N-CA	-6.68	1.37	1.46
1	A	5	PHE	C-N	-6.67	1.25	1.33
1	A	212	ALA	N-CA	-6.67	1.37	1.46
1	E	66	GLY	C-O	6.67	1.32	1.23
1	B	185	ALA	C-O	-6.66	1.15	1.23
1	F	149	LEU	N-CA	-6.66	1.37	1.46
1	D	66	GLY	CA-C	-6.64	1.44	1.51
1	A	18	HIS	C-O	-6.64	1.15	1.23
1	A	14	PRO	CG-CD	-6.63	1.33	1.51
1	A	39	VAL	C-N	6.63	1.42	1.33
1	E	125	ASN	C-N	-6.63	1.25	1.33
1	A	18	HIS	C-N	-6.62	1.24	1.33
1	D	227	ILE	CA-CB	-6.62	1.46	1.54
1	B	31	THR	CA-C	6.61	1.60	1.52
1	B	138	PRO	N-CA	-6.60	1.39	1.47
1	B	59	ARG	CA-C	6.60	1.61	1.52
1	A	85	GLY	C-O	6.60	1.32	1.23
1	A	233	TRP	CZ2-CH2	-6.59	1.24	1.37
1	F	136	ASN	N-CA	6.59	1.58	1.46
1	B	79	TRP	C-N	-6.58	1.25	1.33
1	C	65	ASP	CA-CB	-6.58	1.42	1.53
1	A	48	TRP	CA-CB	-6.57	1.40	1.54
1	B	55	ALA	N-CA	6.57	1.53	1.46
1	F	190	ASN	C-O	6.57	1.32	1.24
1	C	125	ASN	C-O	6.56	1.32	1.24
1	B	187	LEU	C-O	-6.56	1.16	1.24
1	D	52	THR	CA-CB	-6.56	1.43	1.53
1	B	158	THR	C-O	-6.55	1.16	1.24
1	F	86	SER	N-CA	6.55	1.54	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	127	ILE	C-O	-6.54	1.17	1.24
1	C	104	GLY	N-CA	-6.53	1.35	1.44
1	C	88	GLY	C-O	-6.53	1.15	1.23
1	D	186	VAL	C-O	6.53	1.30	1.23
1	B	147	LEU	CA-CB	-6.52	1.42	1.53
1	D	17	LEU	C-O	-6.52	1.16	1.23
1	C	190	ASN	C-N	6.52	1.39	1.33
1	E	139	GLN	CA-CB	-6.52	1.43	1.53
1	B	71	LEU	C-O	6.51	1.31	1.23
1	E	197	THR	C-N	-6.51	1.25	1.33
1	D	148	GLN	CA-CB	-6.51	1.41	1.53
1	C	61	VAL	CA-C	6.50	1.61	1.52
1	E	208	ASN	CA-C	-6.48	1.45	1.53
1	E	104	GLY	N-CA	-6.48	1.35	1.44
1	F	190	ASN	CA-C	6.48	1.61	1.52
1	A	90	TYR	C-O	-6.47	1.15	1.24
1	A	29	ARG	CA-CB	-6.47	1.42	1.53
1	D	40	LEU	N-CA	-6.47	1.38	1.46
1	F	76	THR	CA-C	-6.46	1.44	1.53
1	A	229	GLY	N-CA	-6.46	1.36	1.45
1	B	222	ASP	C-O	-6.45	1.15	1.24
1	C	215	TYR	CG-CD2	-6.45	1.25	1.39
1	D	170	ARG	N-CA	-6.45	1.37	1.46
1	A	137	HIS	C-O	-6.44	1.16	1.24
1	E	77	ILE	CA-C	-6.43	1.46	1.53
1	B	84	LYS	C-N	-6.43	1.21	1.33
1	C	227	ILE	CA-CB	-6.43	1.46	1.54
1	B	62	LEU	CB-CG	-6.42	1.40	1.53
1	B	55	ALA	CA-CB	-6.42	1.43	1.53
1	D	11	GLY	N-CA	6.41	1.54	1.45
1	C	201	ILE	C-O	-6.41	1.17	1.24
1	A	124	GLY	N-CA	-6.41	1.36	1.45
1	A	180	GLY	C-N	6.41	1.43	1.33
1	A	129	TYR	C-N	-6.40	1.25	1.33
1	A	87	ILE	C-N	-6.40	1.24	1.33
1	D	63	GLN	C-O	-6.38	1.16	1.24
1	B	140	THR	N-CA	-6.38	1.38	1.46
1	B	29	ARG	CZ-NH1	6.37	1.41	1.32
1	B	98	ARG	CZ-NH1	6.37	1.41	1.32
1	B	98	ARG	NE-CZ	6.37	1.40	1.33
1	E	142	HIS	N-CA	-6.36	1.38	1.46
1	A	40	LEU	CA-CB	-6.35	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	219	LEU	N-CA	6.35	1.53	1.46
1	F	79	TRP	CA-CB	-6.35	1.43	1.53
1	A	137	HIS	CE1-NE2	-6.34	1.26	1.32
1	A	26	SER	CA-C	-6.34	1.44	1.52
1	F	44	ASP	N-CA	-6.34	1.38	1.46
1	B	40	LEU	N-CA	-6.34	1.38	1.46
1	B	34	SER	C-O	-6.33	1.15	1.24
1	A	50	SER	N-CA	6.33	1.54	1.45
1	A	140	THR	N-CA	-6.33	1.38	1.46
1	A	136	ASN	CA-CB	-6.32	1.43	1.53
1	B	225	LEU	C-O	-6.31	1.15	1.23
1	C	175	ASN	C-N	-6.31	1.24	1.33
1	D	88	GLY	N-CA	6.31	1.54	1.45
1	F	17	LEU	CA-CB	-6.30	1.44	1.53
1	F	10	GLU	CA-C	-6.29	1.43	1.52
1	D	43	SER	C-N	-6.28	1.24	1.33
1	A	206	SER	N-CA	-6.28	1.38	1.46
1	E	9	HIS	C-O	-6.28	1.16	1.24
1	D	217	PHE	CA-CB	-6.27	1.39	1.53
1	B	67	LEU	N-CA	-6.25	1.38	1.46
1	B	71	LEU	C-N	-6.25	1.24	1.33
1	F	164	LEU	C-N	-6.25	1.24	1.33
1	A	125	ASN	CG-OD1	6.25	1.35	1.23
1	E	208	ASN	C-O	-6.25	1.16	1.23
1	D	223	ARG	C-O	-6.24	1.16	1.24
1	B	22	SER	N-CA	-6.24	1.38	1.46
1	A	25	LEU	N-CA	6.24	1.53	1.45
1	E	18	HIS	CA-C	-6.24	1.50	1.53
1	D	33	GLN	CA-C	-6.23	1.45	1.52
1	D	59	ARG	CA-CB	-6.22	1.41	1.54
1	C	164	LEU	C-N	-6.21	1.24	1.33
1	E	66	GLY	N-CA	-6.21	1.36	1.45
1	A	215	TYR	CG-CD2	-6.21	1.26	1.39
1	E	19	ALA	CA-C	-6.19	1.44	1.52
1	E	39	VAL	N-CA	-6.18	1.39	1.46
1	A	30	PHE	CA-CB	-6.18	1.42	1.53
1	C	139	GLN	N-CA	6.18	1.53	1.46
1	B	89	ASN	CG-ND2	6.17	1.46	1.33
1	A	17	LEU	C-O	-6.17	1.17	1.24
1	F	227	ILE	C-O	-6.17	1.17	1.24
1	D	125	ASN	N-CA	-6.17	1.38	1.46
1	D	161	ASN	N-CA	-6.17	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	7	LEU	C-O	6.16	1.31	1.24
1	C	207	GLY	CA-C	-6.16	1.43	1.51
1	D	13	HIS	CD2-NE2	-6.16	1.31	1.37
1	D	108	TRP	C-N	6.16	1.41	1.33
1	B	67	LEU	CA-CB	-6.15	1.45	1.53
1	E	42	ASP	CA-CB	-6.15	1.43	1.53
1	D	209	SER	CA-CB	6.15	1.64	1.53
1	D	13	HIS	CA-C	-6.14	1.45	1.52
1	E	40	LEU	C-O	-6.14	1.16	1.23
1	F	8	SER	C-N	6.14	1.42	1.33
1	E	127	ILE	CA-C	6.13	1.60	1.52
1	C	49	ALA	CA-C	-6.12	1.44	1.52
1	B	21	GLN	C-N	-6.10	1.25	1.33
1	A	113	SER	N-CA	-6.10	1.38	1.45
1	D	184	ARG	NE-CZ	6.10	1.39	1.33
1	E	60	ALA	C-O	6.10	1.30	1.23
1	F	67	LEU	CG-CD2	6.10	1.72	1.52
1	E	194	ASP	N-CA	-6.09	1.39	1.46
1	A	90	TYR	C-N	-6.08	1.20	1.33
1	D	220	GLN	N-CA	6.08	1.54	1.46
1	A	30	PHE	C-O	-6.08	1.17	1.24
1	D	225	LEU	CA-C	-6.08	1.45	1.52
1	F	187	LEU	CA-CB	-6.08	1.43	1.53
1	A	130	SER	C-N	6.06	1.41	1.33
1	A	171	VAL	CA-CB	-6.06	1.46	1.54
1	C	157	GLU	CA-C	-6.06	1.44	1.52
1	D	216	VAL	C-O	-6.06	1.17	1.23
1	D	188	GLN	CA-C	-6.06	1.45	1.52
1	A	139	GLN	N-CA	6.06	1.54	1.45
1	B	137	HIS	C-O	6.05	1.31	1.24
1	A	205	THR	CB-OG1	-6.05	1.34	1.43
1	E	230	GLY	C-N	-6.05	1.25	1.33
1	A	228	TYR	N-CA	-6.05	1.38	1.46
1	D	164	LEU	N-CA	-6.05	1.38	1.46
1	C	9	HIS	N-CA	-6.04	1.38	1.46
1	D	126	SER	CB-OG	-6.04	1.30	1.42
1	E	47	VAL	C-O	-6.04	1.17	1.24
1	C	95	GLN	CA-C	-6.04	1.46	1.52
1	A	7	LEU	CA-C	-6.04	1.44	1.52
1	A	14	PRO	N-CD	-6.03	1.39	1.47
1	D	51	ASN	C-N	-6.03	1.26	1.33
1	F	105	PRO	N-CD	6.03	1.56	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	197	THR	CB-OG1	6.03	1.53	1.43
1	B	193	MET	C-O	-6.02	1.15	1.23
1	D	54	GLY	C-N	6.02	1.41	1.33
1	E	35	ASP	C-O	-6.01	1.14	1.23
1	A	65	ASP	C-O	-6.01	1.16	1.24
1	E	226	ALA	C-N	6.01	1.40	1.33
1	C	143	ALA	N-CA	6.01	1.53	1.46
1	B	71	LEU	CA-C	-6.00	1.45	1.52
1	C	57	GLY	C-N	6.00	1.42	1.33
1	D	217	PHE	CA-C	-6.00	1.45	1.52
1	B	142	HIS	CB-CG	-6.00	1.41	1.50
1	C	190	ASN	C-O	6.00	1.31	1.24
1	F	74	GLN	CA-CB	6.00	1.61	1.53
1	D	141	LEU	C-N	-6.00	1.25	1.33
1	B	59	ARG	NE-CZ	6.00	1.39	1.33
1	B	105	PRO	C-N	-6.00	1.24	1.33
1	B	80	SER	C-N	-5.99	1.25	1.33
1	D	60	ALA	C-N	-5.99	1.25	1.33
1	A	68	LEU	C-N	-5.99	1.25	1.33
1	D	194	ASP	CA-CB	5.97	1.62	1.53
1	A	128	LEU	CA-C	-5.97	1.44	1.52
1	B	59	ARG	C-O	5.97	1.31	1.23
1	E	158	THR	C-N	-5.97	1.25	1.33
1	D	7	LEU	C-N	-5.97	1.25	1.33
1	D	59	ARG	N-CA	5.97	1.53	1.45
1	A	9	HIS	CA-C	-5.97	1.44	1.52
1	C	193	MET	C-O	-5.97	1.16	1.23
1	A	226	ALA	C-N	5.97	1.41	1.33
1	C	198	ASN	N-CA	-5.96	1.39	1.46
1	E	67	LEU	CA-CB	-5.96	1.44	1.53
1	F	128	LEU	CB-CG	5.96	1.65	1.53
1	C	215	TYR	CA-CB	-5.96	1.44	1.53
1	D	131	THR	C-O	5.95	1.35	1.23
1	D	173	SER	C-O	-5.94	1.16	1.23
1	C	194	ASP	CG-OD2	5.94	1.36	1.25
1	A	192	ARG	CZ-NH2	-5.94	1.25	1.33
1	D	155	SER	N-CA	-5.93	1.38	1.45
1	E	35	ASP	C-N	-5.93	1.25	1.33
1	A	83	THR	CA-C	-5.93	1.45	1.52
1	E	189	PRO	C-O	5.93	1.31	1.24
1	A	206	SER	C-N	-5.93	1.24	1.33
1	C	192	ARG	CA-C	5.92	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	229	GLY	C-O	-5.92	1.17	1.23
1	D	13	HIS	ND1-CE1	-5.92	1.26	1.32
1	A	159	ASP	CA-C	-5.92	1.44	1.52
1	B	85	GLY	C-N	-5.92	1.25	1.33
1	F	86	SER	CA-C	-5.91	1.48	1.52
1	F	89	ASN	CG-ND2	5.91	1.45	1.33
1	A	171	VAL	N-CA	-5.90	1.39	1.46
1	C	18	HIS	CE1-NE2	5.89	1.38	1.32
1	D	171	VAL	C-O	-5.89	1.17	1.23
1	D	7	LEU	N-CA	-5.89	1.38	1.46
1	E	217	PHE	N-CA	5.89	1.53	1.46
1	A	95	GLN	C-O	-5.89	1.16	1.24
1	E	29	ARG	CD-NE	-5.88	1.38	1.46
1	C	132	GLN	CA-C	-5.88	1.46	1.53
1	A	198	ASN	CA-CB	5.87	1.63	1.53
1	B	7	LEU	N-CA	5.87	1.53	1.46
1	F	187	LEU	C-O	-5.86	1.17	1.23
1	B	53	ALA	N-CA	5.86	1.53	1.46
1	C	16	THR	N-CA	-5.86	1.38	1.46
1	C	28	PHE	CG-CD2	-5.86	1.26	1.38
1	D	171	VAL	N-CA	-5.84	1.38	1.46
1	E	210	ARG	NE-CZ	5.84	1.39	1.33
1	B	5	PHE	C-N	5.83	1.42	1.33
1	A	230	GLY	C-O	-5.83	1.16	1.23
1	E	147	LEU	C-O	-5.83	1.16	1.24
1	F	19	ALA	C-N	-5.82	1.26	1.33
1	C	149	LEU	CA-CB	-5.81	1.43	1.53
1	D	96	PRO	CA-CB	-5.80	1.45	1.53
1	B	63	GLN	N-CA	-5.80	1.38	1.45
1	C	188	GLN	CD-NE2	5.80	1.45	1.33
1	A	78	ARG	NE-CZ	5.79	1.39	1.33
1	A	154	LEU	CA-C	5.79	1.59	1.52
1	E	218	VAL	C-N	-5.79	1.25	1.33
1	D	138	PRO	N-CA	-5.79	1.40	1.47
1	C	233	TRP	CA-CB	-5.78	1.43	1.54
1	B	29	ARG	CZ-NH2	5.78	1.41	1.33
1	A	192	ARG	CA-C	-5.78	1.46	1.53
1	E	103	TYR	C-N	-5.78	1.24	1.33
1	B	31	THR	N-CA	5.77	1.53	1.45
1	A	170	ARG	CZ-NH2	5.77	1.41	1.33
1	A	170	ARG	NE-CZ	5.77	1.39	1.33
1	E	159	ASP	C-N	-5.76	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	206	SER	CB-OG	5.76	1.53	1.42
1	F	197	THR	CA-C	-5.76	1.45	1.52
1	A	171	VAL	CA-C	-5.76	1.45	1.52
1	B	4	LEU	CA-C	5.76	1.59	1.52
1	F	222	ASP	C-O	5.75	1.31	1.24
1	C	170	ARG	C-O	-5.75	1.16	1.24
1	D	186	VAL	C-N	5.75	1.41	1.33
1	D	32	MET	N-CA	-5.75	1.39	1.46
1	E	61	VAL	C-N	5.75	1.40	1.33
1	D	232	LEU	C-O	-5.74	1.16	1.24
1	A	225	LEU	CA-CB	-5.73	1.43	1.53
1	E	157	GLU	CA-C	-5.73	1.45	1.53
1	C	124	GLY	N-CA	-5.72	1.37	1.45
1	D	5	PHE	CA-C	-5.72	1.45	1.52
1	E	110	SER	CB-OG	-5.72	1.30	1.42
1	F	110	SER	N-CA	-5.71	1.39	1.46
1	E	129	TYR	C-O	5.71	1.31	1.24
1	C	61	VAL	N-CA	5.71	1.53	1.46
1	D	8	SER	CA-C	5.71	1.60	1.52
1	A	151	PRO	CA-CB	-5.70	1.45	1.53
1	B	14	PRO	N-CA	-5.70	1.37	1.47
1	E	208	ASN	C-N	-5.70	1.25	1.33
1	E	141	LEU	C-O	-5.70	1.17	1.23
1	B	152	TYR	C-O	-5.70	1.16	1.23
1	F	54	GLY	C-O	5.69	1.31	1.23
1	C	196	LEU	C-N	-5.69	1.24	1.33
1	A	18	HIS	N-CA	-5.68	1.38	1.45
1	A	69	VAL	C-O	-5.68	1.18	1.24
1	C	175	ASN	N-CA	-5.68	1.38	1.46
1	D	39	VAL	N-CA	-5.68	1.39	1.46
1	D	138	PRO	CA-CB	-5.68	1.46	1.53
1	E	28	PHE	C-N	-5.67	1.26	1.33
1	E	203	VAL	C-O	-5.67	1.18	1.24
1	E	102	ILE	C-O	5.66	1.30	1.24
1	C	140	THR	N-CA	-5.66	1.38	1.46
1	D	214	ARG	N-CA	5.66	1.52	1.45
1	A	198	ASN	C-N	-5.66	1.25	1.33
1	B	190	ASN	CA-CB	-5.65	1.44	1.53
1	D	234	THR	C-N	-5.65	1.25	1.33
1	D	157	GLU	CA-CB	5.65	1.63	1.53
1	E	128	LEU	CA-CB	5.65	1.60	1.52
1	B	19	ALA	CA-C	-5.64	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	83	THR	CA-CB	-5.64	1.45	1.53
1	E	226	ALA	C-O	5.64	1.30	1.23
1	C	37	ASN	CA-CB	-5.64	1.45	1.53
1	A	186	VAL	C-O	5.64	1.29	1.24
1	D	215	TYR	C-O	-5.64	1.16	1.23
1	F	137	HIS	C-N	-5.63	1.26	1.33
1	B	211	SER	C-N	-5.63	1.25	1.33
1	C	170	ARG	C-N	-5.63	1.28	1.33
1	F	129	TYR	CZ-OH	5.63	1.49	1.38
1	B	33	GLN	C-O	-5.62	1.16	1.23
1	C	152	TYR	C-O	5.61	1.30	1.23
1	D	68	LEU	C-O	5.61	1.30	1.23
1	D	156	MET	SD-CE	-5.61	1.65	1.79
1	A	157	GLU	CD-OE1	5.61	1.36	1.25
1	A	159	ASP	C-O	-5.60	1.16	1.24
1	B	35	ASP	C-O	-5.60	1.16	1.24
1	D	191	GLY	N-CA	-5.60	1.36	1.45
1	B	125	ASN	C-N	-5.60	1.26	1.33
1	D	193	MET	C-N	-5.59	1.26	1.33
1	A	47	VAL	CA-CB	-5.59	1.49	1.55
1	A	214	ARG	CA-CB	-5.59	1.43	1.52
1	B	233	TRP	CA-CB	-5.59	1.44	1.53
1	F	3	ILE	CA-C	5.58	1.59	1.52
1	E	146	SER	C-N	-5.58	1.25	1.33
1	A	91	VAL	CA-CB	-5.58	1.45	1.54
1	E	43	SER	C-N	-5.58	1.24	1.33
1	B	184	ARG	CZ-NH1	5.58	1.40	1.32
1	F	13	HIS	ND1-CE1	-5.58	1.26	1.32
1	F	15	GLN	C-O	-5.58	1.17	1.24
1	B	107	LEU	C-O	-5.57	1.17	1.24
1	A	156	MET	CG-SD	-5.56	1.66	1.80
1	B	1	ASN	N-CA	5.56	1.56	1.46
1	D	225	LEU	C-N	-5.56	1.25	1.33
1	D	216	VAL	N-CA	5.55	1.52	1.46
1	F	18	HIS	N-CA	-5.55	1.39	1.46
1	A	66	GLY	C-O	-5.54	1.16	1.23
1	E	125	ASN	CG-OD1	5.54	1.34	1.23
1	D	147	LEU	CA-C	5.54	1.60	1.52
1	C	49	ALA	C-N	-5.53	1.25	1.33
1	C	127	ILE	CA-CB	-5.53	1.47	1.54
1	A	157	GLU	CA-C	-5.53	1.45	1.53
1	B	26	SER	C-O	-5.53	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	84	LYS	C-O	-5.53	1.17	1.23
1	B	13	HIS	CA-CB	5.52	1.61	1.53
1	A	39	VAL	C-O	5.52	1.29	1.24
1	C	26	SER	N-CA	-5.52	1.39	1.46
1	A	141	LEU	CA-CB	-5.52	1.45	1.53
1	D	191	GLY	C-O	5.52	1.31	1.24
1	A	57	GLY	N-CA	-5.51	1.37	1.45
1	B	128	LEU	C-N	-5.51	1.26	1.33
1	C	57	GLY	N-CA	-5.51	1.37	1.45
1	F	139	GLN	CA-C	-5.51	1.45	1.52
1	F	193	MET	N-CA	-5.50	1.39	1.46
1	B	105	PRO	C-O	-5.50	1.16	1.24
1	D	84	LYS	C-N	-5.50	1.23	1.32
1	B	202	ALA	C-N	-5.50	1.26	1.33
1	E	29	ARG	NE-CZ	-5.50	1.26	1.33
1	D	148	GLN	N-CA	-5.50	1.39	1.46
1	A	15	GLN	CD-NE2	5.50	1.44	1.33
1	A	24	GLU	CA-CB	-5.49	1.43	1.53
1	C	181	THR	CA-C	-5.49	1.48	1.52
1	E	83	THR	C-N	-5.49	1.26	1.33
1	C	8	SER	CA-C	5.49	1.59	1.52
1	F	128	LEU	CA-CB	-5.48	1.44	1.53
1	D	180	GLY	CA-C	-5.47	1.44	1.51
1	D	195	VAL	CA-CB	5.47	1.60	1.53
1	F	9	HIS	N-CA	-5.47	1.39	1.46
1	C	74	GLN	N-CA	-5.47	1.39	1.46
1	A	147	LEU	N-CA	5.46	1.53	1.46
1	C	180	GLY	CA-C	-5.46	1.45	1.51
1	D	235	THR	C-O	5.46	1.34	1.23
1	F	224	ASN	C-N	-5.46	1.26	1.33
1	C	175	ASN	C-O	-5.45	1.16	1.23
1	D	127	ILE	CA-C	-5.45	1.45	1.52
1	E	139	GLN	CD-OE1	5.45	1.33	1.23
1	E	146	SER	C-O	5.45	1.30	1.24
1	B	77	ILE	CA-CB	5.45	1.61	1.54
1	C	23	LEU	N-CA	-5.45	1.39	1.46
1	C	223	ARG	CD-NE	-5.45	1.38	1.46
1	E	114	ASN	N-CA	-5.45	1.39	1.46
1	A	153	ARG	C-O	5.44	1.30	1.23
1	F	18	HIS	CA-CB	-5.44	1.44	1.53
1	F	188	GLN	C-O	-5.43	1.17	1.23
1	F	126	SER	N-CA	-5.43	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	214	ARG	CB-CG	-5.43	1.36	1.52
1	A	18	HIS	ND1-CE1	5.43	1.38	1.32
1	B	34	SER	CB-OG	-5.43	1.31	1.42
1	D	222	ASP	CG-OD1	5.43	1.35	1.25
1	A	76	THR	C-O	5.43	1.30	1.23
1	E	143	ALA	C-N	-5.43	1.25	1.33
1	C	89	ASN	CG-ND2	5.42	1.44	1.33
1	C	66	GLY	C-O	5.42	1.31	1.24
1	C	232	LEU	C-O	-5.42	1.17	1.24
1	F	151	PRO	C-O	-5.42	1.17	1.24
1	F	192	ARG	CA-CB	-5.41	1.43	1.53
1	F	214	ARG	CA-CB	-5.41	1.45	1.53
1	A	27	SER	N-CA	5.41	1.53	1.46
1	E	127	ILE	C-N	5.41	1.40	1.33
1	A	88	GLY	CA-C	-5.41	1.44	1.51
1	B	71	LEU	CA-CB	5.40	1.63	1.53
1	A	187	LEU	CA-C	-5.40	1.46	1.52
1	E	150	SER	C-N	-5.40	1.29	1.33
1	D	150	SER	CA-C	-5.40	1.46	1.52
1	E	33	GLN	C-O	-5.40	1.17	1.24
1	E	170	ARG	C-O	-5.39	1.17	1.23
1	E	188	GLN	CA-C	-5.39	1.46	1.53
1	C	196	LEU	CA-CB	-5.39	1.45	1.53
1	A	26	SER	N-CA	5.38	1.53	1.46
1	B	30	PHE	C-O	-5.38	1.17	1.24
1	D	184	ARG	C-O	5.38	1.30	1.23
1	A	36	CYS	N-CA	-5.38	1.40	1.46
1	A	93	VAL	C-N	-5.38	1.26	1.33
1	E	160	CYS	CA-CB	-5.38	1.44	1.53
1	D	83	THR	C-N	-5.38	1.26	1.33
1	D	107	LEU	CA-CB	-5.38	1.44	1.53
1	A	56	THR	N-CA	-5.37	1.39	1.46
1	B	45	VAL	C-O	-5.37	1.17	1.24
1	A	188	GLN	CB-CG	5.37	1.68	1.52
1	D	224	ASN	C-O	5.37	1.30	1.23
1	A	230	GLY	CA-C	5.37	1.59	1.51
1	B	17	LEU	N-CA	5.37	1.52	1.46
1	F	33	GLN	CA-C	-5.37	1.45	1.53
1	B	11	GLY	CA-C	5.36	1.59	1.51
1	D	93	VAL	C-O	-5.36	1.17	1.24
1	A	170	ARG	CZ-NH1	5.36	1.40	1.32
1	B	162	LEU	N-CA	-5.36	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	230	GLY	N-CA	-5.36	1.37	1.45
1	E	9	HIS	C-N	-5.36	1.26	1.33
1	E	98	ARG	C-O	-5.35	1.17	1.24
1	C	76	THR	N-CA	-5.35	1.37	1.46
1	B	79	TRP	CA-CB	-5.35	1.45	1.53
1	A	26	SER	CB-OG	-5.35	1.31	1.42
1	B	17	LEU	CA-CB	-5.34	1.45	1.53
1	D	73	ALA	C-N	-5.34	1.25	1.33
1	E	80	SER	CA-CB	-5.34	1.46	1.53
1	B	87	ILE	C-O	-5.34	1.17	1.24
1	A	212	ALA	C-O	-5.33	1.17	1.24
1	D	232	LEU	CA-CB	-5.33	1.46	1.54
1	B	2	ASN	N-CA	-5.33	1.40	1.46
1	C	137	HIS	CD2-NE2	-5.33	1.31	1.37
1	A	106	GLY	N-CA	5.33	1.51	1.45
1	A	83	THR	C-O	-5.32	1.17	1.23
1	B	152	TYR	C-N	-5.32	1.26	1.33
1	C	200	ASN	N-CA	-5.32	1.39	1.46
1	E	95	GLN	N-CA	-5.32	1.37	1.45
1	F	98	ARG	CZ-NH2	5.32	1.40	1.33
1	A	41	PHE	N-CA	-5.32	1.39	1.46
1	A	71	LEU	N-CA	-5.32	1.39	1.46
1	E	64	SER	C-N	-5.32	1.26	1.33
1	D	202	ALA	C-O	5.32	1.30	1.24
1	A	206	SER	C-O	-5.31	1.17	1.24
1	B	217	PHE	CA-CB	5.31	1.62	1.53
1	D	82	GLY	CA-C	-5.31	1.44	1.51
1	D	156	MET	C-N	-5.31	1.26	1.33
1	C	211	SER	C-N	-5.31	1.26	1.33
1	E	26	SER	C-N	-5.31	1.26	1.33
1	F	131	THR	CA-C	5.31	1.64	1.52
1	D	5	PHE	C-O	-5.30	1.17	1.24
1	D	218	VAL	CA-C	-5.30	1.46	1.52
1	D	144	THR	CA-C	5.30	1.59	1.52
1	F	109	ASP	CA-CB	5.30	1.64	1.53
1	E	62	LEU	N-CA	-5.30	1.39	1.46
1	E	170	ARG	N-CA	-5.30	1.39	1.46
1	F	15	GLN	N-CA	5.30	1.53	1.45
1	A	192	ARG	CD-NE	5.29	1.53	1.46
1	B	159	ASP	C-N	-5.29	1.26	1.33
1	F	15	GLN	CA-CB	-5.29	1.46	1.54
1	B	188	GLN	C-O	-5.29	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	129	TYR	CA-CB	5.29	1.62	1.53
1	A	20	ALA	CA-CB	-5.28	1.44	1.53
1	D	166	ASP	C-N	-5.28	1.26	1.33
1	E	228	TYR	C-O	-5.27	1.17	1.24
1	F	43	SER	C-N	-5.27	1.26	1.33
1	B	54	GLY	CA-C	5.27	1.59	1.51
1	E	70	ILE	C-O	-5.26	1.17	1.24
1	D	130	SER	CB-OG	5.26	1.52	1.42
1	D	10	GLU	C-O	5.26	1.31	1.24
1	B	156	MET	N-CA	-5.26	1.39	1.46
1	C	20	ALA	CA-CB	-5.26	1.46	1.53
1	B	142	HIS	CD2-NE2	5.25	1.43	1.37
1	B	163	VAL	N-CA	5.25	1.52	1.46
1	F	16	THR	C-N	5.25	1.41	1.33
1	A	143	ALA	N-CA	5.24	1.52	1.46
1	A	25	LEU	CA-CB	-5.24	1.41	1.53
1	B	17	LEU	C-N	-5.24	1.26	1.33
1	C	150	SER	CB-OG	5.24	1.52	1.42
1	A	217	PHE	CE1-CZ	-5.24	1.23	1.38
1	D	76	THR	C-N	-5.24	1.26	1.33
1	B	220	GLN	CA-CB	-5.23	1.46	1.53
1	F	143	ALA	C-N	-5.23	1.26	1.33
1	A	183	CYS	C-O	5.22	1.31	1.23
1	D	176	THR	C-N	-5.22	1.26	1.33
1	A	204	TRP	NE1-CE2	-5.22	1.31	1.37
1	D	221	PRO	N-CD	-5.21	1.40	1.47
1	F	104	GLY	CA-C	-5.21	1.44	1.51
1	A	214	ARG	CZ-NH2	5.21	1.40	1.33
1	B	6	GLY	N-CA	5.20	1.52	1.45
1	D	232	LEU	CA-C	-5.20	1.45	1.52
1	A	5	PHE	C-O	5.20	1.30	1.23
1	F	102	ILE	CB-CG1	-5.20	1.43	1.53
1	C	27	SER	CA-CB	-5.20	1.44	1.53
1	C	40	LEU	C-O	-5.19	1.17	1.23
1	B	231	ALA	C-O	5.19	1.30	1.24
1	D	13	HIS	CG-CD2	-5.19	1.30	1.35
1	C	190	ASN	N-CA	-5.18	1.38	1.45
1	E	206	SER	CA-C	-5.18	1.46	1.52
1	D	66	GLY	N-CA	-5.18	1.38	1.45
1	E	44	ASP	N-CA	-5.18	1.39	1.46
1	C	165	PHE	CB-CG	-5.18	1.38	1.50
1	B	2	ASN	C-O	5.18	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	56	THR	C-N	-5.17	1.25	1.33
1	D	208	ASN	N-CA	-5.17	1.39	1.46
1	B	147	LEU	C-N	5.17	1.40	1.33
1	E	142	HIS	C-O	5.17	1.30	1.23
1	E	219	LEU	CA-C	5.17	1.59	1.52
1	C	137	HIS	CE1-NE2	-5.16	1.27	1.32
1	D	149	LEU	N-CA	-5.16	1.39	1.46
1	F	190	ASN	N-CA	-5.16	1.39	1.46
1	F	228	TYR	C-O	-5.16	1.17	1.23
1	D	123	ASN	C-N	5.16	1.41	1.33
1	D	67	LEU	CG-CD1	5.16	1.69	1.52
1	F	55	ALA	C-O	5.16	1.30	1.24
1	F	195	VAL	CA-CB	-5.16	1.47	1.54
1	D	130	SER	N-CA	5.15	1.52	1.46
1	A	72	THR	C-O	-5.15	1.17	1.23
1	D	212	ALA	N-CA	5.15	1.52	1.46
1	F	40	LEU	N-CA	-5.15	1.40	1.46
1	B	80	SER	N-CA	-5.14	1.40	1.46
1	D	127	ILE	CB-CG1	-5.14	1.43	1.53
1	A	74	GLN	CA-CB	-5.13	1.46	1.53
1	A	105	PRO	CA-CB	-5.13	1.46	1.53
1	B	23	LEU	C-O	-5.13	1.17	1.24
1	D	163	VAL	N-CA	-5.13	1.39	1.46
1	A	30	PHE	CG-CD1	-5.13	1.28	1.38
1	A	96	PRO	N-CD	-5.13	1.40	1.47
1	A	198	ASN	N-CA	-5.13	1.39	1.46
1	D	7	LEU	CA-C	-5.13	1.45	1.52
1	F	136	ASN	CA-CB	5.13	1.63	1.53
1	B	34	SER	C-N	-5.12	1.25	1.33
1	E	4	LEU	CA-C	-5.12	1.46	1.52
1	A	184	ARG	CA-CB	-5.12	1.45	1.53
1	E	8	SER	C-O	-5.12	1.17	1.24
1	A	58	CYS	N-CA	5.12	1.52	1.46
1	A	208	ASN	C-O	5.11	1.30	1.23
1	D	45	VAL	C-O	-5.11	1.18	1.24
1	C	111	GLY	C-O	-5.11	1.17	1.23
1	B	182	GLY	N-CA	5.10	1.52	1.45
1	E	90	TYR	CA-CB	-5.10	1.45	1.53
1	E	103	TYR	CA-C	-5.10	1.46	1.52
1	E	123	ASN	CA-CB	5.10	1.61	1.53
1	B	49	ALA	CA-C	-5.10	1.46	1.52
1	D	203	VAL	N-CA	5.09	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	199	GLN	N-CA	-5.08	1.40	1.46
1	A	135	ASP	CA-C	-5.08	1.45	1.52
1	C	154	LEU	CA-C	-5.08	1.46	1.52
1	C	2	ASN	CA-CB	5.07	1.63	1.54
1	A	191	GLY	CA-C	-5.07	1.44	1.51
1	C	210	ARG	CD-NE	5.07	1.53	1.46
1	A	233	TRP	C-O	5.06	1.30	1.24
1	A	71	LEU	CA-CB	-5.06	1.45	1.53
1	D	15	GLN	CA-C	-5.06	1.45	1.52
1	B	9	HIS	N-CA	-5.06	1.39	1.46
1	B	200	ASN	C-N	-5.06	1.26	1.33
1	B	94	LEU	CA-CB	-5.05	1.46	1.53
1	A	214	ARG	CA-C	-5.05	1.47	1.53
1	C	204	TRP	C-N	-5.05	1.25	1.33
1	C	202	ALA	C-O	-5.05	1.17	1.23
1	C	183	CYS	CA-C	-5.05	1.46	1.53
1	F	1	ASN	CG-ND2	5.05	1.43	1.33
1	C	143	ALA	CA-C	-5.05	1.46	1.52
1	F	37	ASN	N-CA	-5.05	1.40	1.45
1	F	95	GLN	CA-C	-5.04	1.45	1.52
1	E	156	MET	SD-CE	-5.04	1.67	1.79
1	C	128	LEU	CA-CB	5.04	1.61	1.53
1	A	62	LEU	C-O	-5.03	1.17	1.24
1	B	60	ALA	CA-CB	-5.03	1.45	1.53
1	A	49	ALA	CA-CB	-5.03	1.45	1.53
1	B	189	PRO	N-CA	-5.03	1.40	1.47
1	C	143	ALA	CA-CB	-5.03	1.41	1.53
1	E	157	GLU	N-CA	5.02	1.53	1.46
1	A	33	GLN	N-CA	-5.02	1.40	1.45
1	A	218	VAL	CA-CB	-5.02	1.48	1.54
1	D	77	ILE	CB-CG1	5.02	1.63	1.53
1	A	173	SER	CA-C	-5.01	1.46	1.52
1	D	214	ARG	C-O	5.01	1.30	1.23
1	E	131	THR	CB-OG1	5.01	1.51	1.43
1	E	38	LEU	C-N	-5.00	1.26	1.33
1	B	78	ARG	CZ-NH2	5.00	1.40	1.33
1	C	206	SER	CA-C	-5.00	1.45	1.52
1	E	170	ARG	C-N	-5.00	1.26	1.33

All (6316) bond angle outliers are listed below:

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	109	ASP	CA-CB-CG	62.65	175.25	112.60
1	D	1	ASN	OD1-CG-ND2	-62.32	60.28	122.60
1	D	104	GLY	CA-C-N	59.86	178.98	120.31
1	D	104	GLY	C-N-CA	59.86	178.98	120.31
1	E	1	ASN	CA-CB-CG	55.29	167.89	112.60
1	F	86	SER	CA-C-O	-47.95	85.64	119.68
1	B	137	HIS	CA-C-O	-45.69	78.40	121.34
1	C	123	ASN	CA-CB-CG	44.04	156.64	112.60
1	B	123	ASN	CA-CB-CG	43.47	156.07	112.60
1	A	137	HIS	CA-C-N	41.60	171.84	119.84
1	A	137	HIS	C-N-CA	41.60	171.84	119.84
1	A	169	ASP	CA-CB-CG	40.81	153.41	112.60
1	F	9	HIS	CA-CB-CG	40.51	154.31	113.80
1	A	129	TYR	CA-C-N	40.05	179.24	122.77
1	A	129	TYR	C-N-CA	40.05	179.24	122.77
1	B	104	GLY	CA-C-N	39.78	169.57	119.84
1	B	104	GLY	C-N-CA	39.78	169.57	119.84
1	A	44	ASP	CA-CB-CG	39.50	152.10	112.60
1	E	125	ASN	CA-CB-CG	39.45	152.05	112.60
1	D	128	LEU	CA-C-O	-39.14	68.17	119.05
1	E	175	ASN	CA-CB-CG	38.97	151.57	112.60
1	E	1	ASN	OD1-CG-ND2	-38.84	83.76	122.60
1	D	60	ALA	CA-C-O	-38.65	77.61	118.97
1	C	136	ASN	CA-CB-CG	37.96	150.56	112.60
1	B	1	ASN	CA-CB-CG	37.79	150.39	112.60
1	D	168	ASP	CA-CB-CG	36.94	149.53	112.60
1	F	190	ASN	OD1-CG-ND2	-36.46	86.14	122.60
1	D	193	MET	CA-C-N	36.23	174.98	122.44
1	D	193	MET	C-N-CA	36.23	174.98	122.44
1	E	29	ARG	CD-NE-CZ	35.99	174.78	124.40
1	A	104	GLY	CA-C-N	35.26	163.91	119.84
1	A	104	GLY	C-N-CA	35.26	163.91	119.84
1	D	214	ARG	CD-NE-CZ	35.22	173.70	124.40
1	F	192	ARG	CD-NE-CZ	35.19	173.66	124.40
1	E	33	GLN	CA-C-N	34.85	176.60	121.19
1	E	33	GLN	C-N-CA	34.85	176.60	121.19
1	C	8	SER	O-C-N	-34.49	81.54	122.93
1	C	214	ARG	NE-CZ-NH2	34.47	150.22	119.20
1	B	60	ALA	CA-C-O	-33.76	72.87	120.13
1	F	1	ASN	CA-C-N	33.73	176.56	120.23
1	F	1	ASN	C-N-CA	33.73	176.56	120.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	75	ASN	OD1-CG-ND2	33.12	155.72	122.60
1	F	73	ALA	CA-C-N	33.02	173.38	122.86
1	F	73	ALA	C-N-CA	33.02	173.38	122.86
1	C	13	HIS	CA-C-O	-32.86	87.89	120.09
1	D	198	ASN	CA-CB-CG	-32.66	79.94	112.60
1	B	214	ARG	CD-NE-CZ	32.62	170.07	124.40
1	C	125	ASN	CA-CB-CG	32.48	145.08	112.60
1	C	74	GLN	OE1-CD-NE2	32.38	154.98	122.60
1	C	117	SER	CA-C-N	32.03	179.63	121.97
1	C	117	SER	C-N-CA	32.03	179.63	121.97
1	C	60	ALA	O-C-N	-32.02	87.45	122.03
1	C	167	ARG	CD-NE-CZ	31.94	169.12	124.40
1	A	142	HIS	O-C-N	-31.80	97.62	121.47
1	F	104	GLY	O-C-N	31.71	153.48	121.77
1	C	128	LEU	CA-C-N	31.34	161.18	120.44
1	C	128	LEU	C-N-CA	31.34	161.18	120.44
1	A	170	ARG	CD-NE-CZ	31.27	168.19	124.40
1	B	193	MET	CA-C-N	31.06	171.89	121.58
1	B	193	MET	C-N-CA	31.06	171.89	121.58
1	C	170	ARG	CD-NE-CZ	30.94	167.72	124.40
1	E	130	SER	CA-C-N	30.86	177.26	121.70
1	E	130	SER	C-N-CA	30.86	177.26	121.70
1	B	137	HIS	O-C-N	-30.58	98.87	121.19
1	A	134	ASN	CA-CB-CG	30.46	143.06	112.60
1	F	125	ASN	CA-CB-CG	30.44	143.04	112.60
1	A	138	PRO	CA-N-CD	-29.96	70.05	112.00
1	D	213	GLY	CA-C-O	-29.95	93.18	121.63
1	B	192	ARG	CD-NE-CZ	29.75	166.06	124.40
1	A	214	ARG	CD-NE-CZ	29.66	165.93	124.40
1	E	33	GLN	OE1-CD-NE2	-29.58	93.02	122.60
1	D	141	LEU	CA-C-N	29.56	175.00	122.09
1	D	141	LEU	C-N-CA	29.56	175.00	122.09
1	B	230	GLY	O-C-N	29.51	161.07	122.70
1	F	173	SER	CA-CB-OG	29.42	169.94	111.10
1	E	59	ARG	NE-CZ-NH2	-29.41	92.73	119.20
1	F	194	ASP	CA-CB-CG	-29.39	83.21	112.60
1	B	59	ARG	CA-CB-CG	29.39	172.87	114.10
1	D	146	SER	CA-C-O	-29.37	85.60	118.79
1	A	110	SER	CA-C-O	29.36	151.54	120.42
1	D	188	GLN	OE1-CD-NE2	-29.34	93.26	122.60
1	D	229	GLY	CA-C-O	-29.33	89.34	121.31
1	C	122	ASN	CA-CB-CG	29.26	141.86	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	196	LEU	CA-C-N	29.22	165.53	121.99
1	F	196	LEU	C-N-CA	29.22	165.53	121.99
1	B	209	SER	CA-C-O	-28.89	87.23	121.32
1	E	113	SER	CA-CB-OG	28.83	168.76	111.10
1	B	124	GLY	N-CA-C	28.66	154.87	115.32
1	F	124	GLY	CA-C-N	28.60	176.16	121.54
1	F	124	GLY	C-N-CA	28.60	176.16	121.54
1	A	113	SER	CA-C-O	28.56	153.43	121.16
1	E	228	TYR	CA-C-N	28.56	177.39	121.41
1	E	228	TYR	C-N-CA	28.56	177.39	121.41
1	F	164	LEU	CA-C-O	-28.46	90.07	120.24
1	F	101	THR	N-CA-C	28.42	151.31	108.96
1	A	2	ASN	OD1-CG-ND2	-28.41	94.19	122.60
1	B	184	ARG	NE-CZ-NH2	-28.34	93.69	119.20
1	D	76	THR	CA-C-N	28.34	172.99	121.97
1	D	76	THR	C-N-CA	28.34	172.99	121.97
1	A	78	ARG	CA-CB-CG	28.30	170.71	114.10
1	F	128	LEU	CA-C-N	28.28	175.56	121.54
1	F	128	LEU	C-N-CA	28.28	175.56	121.54
1	C	132	GLN	CA-C-N	28.11	172.30	121.70
1	C	132	GLN	C-N-CA	28.11	172.30	121.70
1	D	212	ALA	CB-CA-C	28.07	153.69	109.90
1	C	145	GLN	CA-C-N	28.00	175.02	121.54
1	C	145	GLN	C-N-CA	28.00	175.02	121.54
1	D	188	GLN	O-C-N	-27.98	89.15	121.32
1	F	137	HIS	CA-C-O	-27.90	88.93	120.46
1	D	105	PRO	CA-C-O	-27.87	87.56	122.12
1	B	167	ARG	CA-CB-CG	27.86	169.83	114.10
1	F	210	ARG	CA-C-O	-27.86	91.50	121.31
1	A	9	HIS	N-CA-C	27.83	170.07	110.80
1	C	190	ASN	N-CA-CB	-27.77	74.32	110.98
1	A	131	THR	CA-CB-OG1	27.71	151.17	109.60
1	F	7	LEU	CA-C-O	27.60	159.98	120.51
1	B	100	VAL	CA-C-O	27.51	150.01	120.57
1	D	224	ASN	CA-CB-CG	-27.48	85.11	112.60
1	B	55	ALA	O-C-N	-27.39	85.86	121.74
1	E	122	ASN	CA-CB-CG	27.33	139.93	112.60
1	D	224	ASN	OD1-CG-ND2	27.22	149.82	122.60
1	B	142	HIS	CA-CB-CG	27.15	140.95	113.80
1	A	18	HIS	CA-C-O	27.03	156.38	121.78
1	D	123	ASN	CA-CB-CG	26.99	139.59	112.60
1	A	124	GLY	CA-C-N	26.91	164.58	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	124	GLY	C-N-CA	26.91	164.58	122.60
1	F	103	TYR	O-C-N	-26.90	91.83	123.31
1	E	138	PRO	N-CA-CB	26.83	131.42	103.25
1	D	104	GLY	O-C-N	26.78	148.55	121.77
1	B	100	VAL	O-C-N	-26.74	93.35	123.03
1	D	198	ASN	N-CA-CB	-26.65	65.46	110.49
1	E	76	THR	CA-CB-OG1	-26.59	69.72	109.60
1	D	196	LEU	CA-C-N	26.58	158.62	120.87
1	D	196	LEU	C-N-CA	26.58	158.62	120.87
1	F	193	MET	CA-C-N	26.57	172.29	121.54
1	F	193	MET	C-N-CA	26.57	172.29	121.54
1	C	128	LEU	O-C-N	-26.56	90.20	122.87
1	F	223	ARG	NE-CZ-NH2	-26.43	95.41	119.20
1	D	139	GLN	CB-CG-CD	26.21	157.16	112.60
1	D	174	THR	CA-CB-OG1	26.07	148.71	109.60
1	C	142	HIS	O-C-N	-26.07	101.92	121.47
1	B	33	GLN	OE1-CD-NE2	-26.00	96.60	122.60
1	B	194	ASP	CA-CB-CG	-25.97	86.63	112.60
1	D	46	ARG	CD-NE-CZ	25.86	160.61	124.40
1	B	137	HIS	N-CA-C	25.61	145.63	108.76
1	D	51	ASN	CA-C-N	25.55	163.87	122.73
1	D	51	ASN	C-N-CA	25.55	163.87	122.73
1	A	59	ARG	NE-CZ-NH2	-25.46	96.28	119.20
1	C	8	SER	CA-C-O	25.38	147.74	120.58
1	A	194	ASP	CA-CB-CG	25.33	137.93	112.60
1	B	187	LEU	O-C-N	25.32	153.17	123.29
1	E	145	GLN	CB-CG-CD	25.29	155.59	112.60
1	B	123	ASN	CA-C-N	25.28	167.80	122.05
1	B	123	ASN	C-N-CA	25.28	167.80	122.05
1	F	60	ALA	CA-C-O	-25.27	89.17	120.00
1	C	89	ASN	OD1-CG-ND2	25.25	147.85	122.60
1	A	68	LEU	CA-C-N	25.25	158.08	122.99
1	A	68	LEU	C-N-CA	25.25	158.08	122.99
1	A	142	HIS	N-CA-C	25.18	129.42	108.78
1	D	1	ASN	CB-CG-OD1	25.17	171.15	120.80
1	B	210	ARG	CA-C-O	-25.14	84.56	120.51
1	C	223	ARG	NE-CZ-NH1	-25.13	96.37	121.50
1	F	184	ARG	NE-CZ-NH2	-25.11	96.60	119.20
1	F	214	ARG	O-C-N	-25.11	93.66	123.29
1	E	60	ALA	CA-C-O	-25.06	94.57	120.89
1	F	214	ARG	CD-NE-CZ	25.02	159.43	124.40
1	C	90	TYR	CA-C-O	-24.97	92.22	121.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	95	GLN	OE1-CD-NE2	-24.87	97.73	122.60
1	F	210	ARG	CD-NE-CZ	24.87	159.21	124.40
1	A	184	ARG	NE-CZ-NH2	-24.85	96.84	119.20
1	C	2	ASN	CB-CG-ND2	24.84	153.67	116.40
1	F	102	ILE	CB-CG1-CD1	24.84	165.97	113.80
1	B	87	ILE	CA-CB-CG1	24.79	152.54	110.40
1	A	78	ARG	NE-CZ-NH2	24.79	141.51	119.20
1	B	170	ARG	CD-NE-CZ	24.79	159.10	124.40
1	E	124	GLY	CA-C-N	24.77	160.52	122.37
1	E	124	GLY	C-N-CA	24.77	160.52	122.37
1	D	7	LEU	CA-C-O	24.76	155.91	120.51
1	C	230	GLY	O-C-N	-24.68	90.61	122.70
1	C	189	PRO	CA-C-N	24.65	159.69	121.98
1	C	189	PRO	C-N-CA	24.65	159.69	121.98
1	A	128	LEU	CA-C-O	-24.55	85.40	120.51
1	D	62	LEU	CA-C-O	24.46	151.07	120.25
1	D	224	ASN	N-CA-C	24.45	148.13	109.50
1	B	55	ALA	CA-C-O	24.39	152.41	121.67
1	A	231	ALA	CA-C-N	24.33	168.00	121.54
1	A	231	ALA	C-N-CA	24.33	168.00	121.54
1	D	222	ASP	CA-CB-CG	24.32	136.92	112.60
1	B	211	SER	CA-C-O	-24.29	93.70	121.87
1	C	60	ALA	CA-C-O	-24.27	95.90	120.90
1	E	137	HIS	CA-C-O	-24.27	96.56	119.86
1	C	214	ARG	O-C-N	-24.16	95.34	123.13
1	C	130	SER	CA-C-O	24.15	155.05	120.51
1	D	174	THR	CA-CB-CG2	-24.09	69.54	110.50
1	E	5	PHE	CA-C-O	24.07	146.69	120.70
1	B	198	ASN	CA-CB-CG	-24.07	88.53	112.60
1	D	214	ARG	CA-CB-CG	24.07	162.23	114.10
1	B	148	GLN	CA-CB-CG	23.98	162.07	114.10
1	D	126	SER	CA-CB-OG	23.95	159.00	111.10
1	D	6	GLY	CA-C-N	23.84	167.07	121.54
1	D	6	GLY	C-N-CA	23.84	167.07	121.54
1	C	1	ASN	CA-CB-CG	23.81	136.41	112.60
1	B	222	ASP	CA-C-N	23.79	166.99	121.54
1	B	222	ASP	C-N-CA	23.79	166.99	121.54
1	E	20	ALA	CA-C-O	23.75	144.54	120.32
1	D	20	ALA	CB-CA-C	23.73	144.25	111.74
1	B	202	ALA	O-C-N	-23.70	98.39	123.04
1	C	174	THR	O-C-N	-23.68	97.02	122.12
1	C	138	PRO	CA-N-CD	-23.56	79.01	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	230	GLY	CA-C-O	-23.53	79.63	120.57
1	A	208	ASN	O-C-N	23.45	150.36	123.16
1	C	137	HIS	CA-C-N	23.42	149.12	119.84
1	C	137	HIS	C-N-CA	23.42	149.12	119.84
1	F	170	ARG	CA-CB-CG	23.39	160.88	114.10
1	D	225	LEU	CA-C-O	-23.37	94.90	120.38
1	C	138	PRO	CA-C-N	-23.37	88.35	123.17
1	C	138	PRO	C-N-CA	-23.37	88.35	123.17
1	D	26	SER	CA-C-O	23.29	144.24	120.95
1	D	229	GLY	O-C-N	-23.26	103.26	123.73
1	A	184	ARG	NE-CZ-NH1	23.21	144.71	121.50
1	E	170	ARG	NE-CZ-NH2	23.18	140.06	119.20
1	C	169	ASP	CA-CB-CG	23.16	135.76	112.60
1	B	21	GLN	CA-C-N	23.16	162.70	121.94
1	B	21	GLN	C-N-CA	23.16	162.70	121.94
1	D	1	ASN	CA-C-N	23.13	159.45	122.67
1	D	1	ASN	C-N-CA	23.13	159.45	122.67
1	D	6	GLY	CA-C-O	-23.04	100.86	120.91
1	E	63	GLN	N-CA-C	23.02	140.23	110.53
1	B	126	SER	N-CA-CB	-23.01	77.45	110.36
1	A	208	ASN	CA-CB-CG	22.98	135.58	112.60
1	B	87	ILE	CB-CG1-CD1	22.90	161.88	113.80
1	F	8	SER	CA-C-N	22.87	165.22	121.54
1	F	8	SER	C-N-CA	22.87	165.22	121.54
1	C	124	GLY	CA-C-N	22.83	165.14	121.54
1	C	124	GLY	C-N-CA	22.83	165.14	121.54
1	B	22	SER	O-C-N	-22.81	96.72	123.41
1	E	146	SER	CA-C-O	-22.72	88.02	120.51
1	E	158	THR	OG1-CB-CG2	22.72	154.73	109.30
1	A	230	GLY	CA-C-N	22.64	164.78	121.54
1	A	230	GLY	C-N-CA	22.64	164.78	121.54
1	B	64	SER	O-C-N	-22.58	92.56	122.59
1	C	201	ILE	O-C-N	-22.56	99.80	123.03
1	E	102	ILE	O-C-N	22.55	146.15	123.14
1	B	220	GLN	CG-CD-NE2	22.53	150.20	116.40
1	B	184	ARG	NH1-CZ-NH2	22.52	148.57	119.30
1	B	98	ARG	CG-CD-NE	22.50	161.51	112.00
1	B	193	MET	CG-SD-CE	22.49	150.38	100.90
1	A	221	PRO	O-C-N	-22.44	92.34	122.64
1	F	165	PHE	CA-CB-CG	22.40	136.20	113.80
1	A	123	ASN	CA-CB-CG	22.38	134.97	112.60
1	D	15	GLN	CG-CD-NE2	22.37	149.96	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	33	GLN	O-C-N	-22.35	92.86	122.59
1	B	187	LEU	CA-C-O	-22.35	96.02	120.38
1	E	229	GLY	CA-C-N	-22.35	104.95	122.16
1	E	229	GLY	C-N-CA	-22.35	104.95	122.16
1	F	46	ARG	NE-CZ-NH1	22.33	143.83	121.50
1	B	56	THR	CA-C-N	22.32	165.16	121.41
1	B	56	THR	C-N-CA	22.32	165.16	121.41
1	B	30	PHE	CA-CB-CG	-22.29	91.51	113.80
1	B	108	TRP	O-C-N	-22.29	96.03	123.44
1	D	214	ARG	NE-CZ-NH2	22.28	139.25	119.20
1	F	1	ASN	OD1-CG-ND2	22.24	144.84	122.60
1	A	122	ASN	CA-CB-CG	22.24	134.84	112.60
1	B	124	GLY	CA-C-N	22.20	163.95	121.54
1	B	124	GLY	C-N-CA	22.20	163.95	121.54
1	A	173	SER	CA-C-O	-22.17	97.88	121.38
1	D	101	THR	N-CA-C	22.06	137.35	108.24
1	F	199	GLN	CA-C-O	22.05	143.16	118.90
1	C	154	LEU	CA-C-O	-22.05	97.61	120.54
1	D	13	HIS	CA-CB-CG	-22.02	91.78	113.80
1	A	188	GLN	CG-CD-NE2	22.00	149.39	116.40
1	C	223	ARG	NH1-CZ-NH2	21.98	147.87	119.30
1	A	99	THR	CA-CB-OG1	-21.97	76.65	109.60
1	A	198	ASN	CA-CB-CG	-21.95	90.65	112.60
1	E	182	GLY	CA-C-N	21.93	163.42	121.54
1	E	182	GLY	C-N-CA	21.93	163.42	121.54
1	F	128	LEU	O-C-N	-21.92	97.86	122.85
1	E	123	ASN	N-CA-C	21.92	141.25	109.69
1	D	217	PHE	CA-C-O	-21.91	96.35	121.11
1	E	114	ASN	CA-CB-CG	-21.89	90.71	112.60
1	F	189	PRO	CA-C-N	21.88	163.33	121.54
1	F	189	PRO	C-N-CA	21.88	163.33	121.54
1	B	148	GLN	OE1-CD-NE2	21.86	144.46	122.60
1	D	192	ARG	CA-C-N	21.85	152.74	121.50
1	D	192	ARG	C-N-CA	21.85	152.74	121.50
1	F	104	GLY	CA-C-N	21.80	179.33	127.00
1	F	104	GLY	C-N-CA	21.80	179.33	127.00
1	D	59	ARG	NE-CZ-NH1	-21.80	99.70	121.50
1	D	13	HIS	CA-C-O	-21.79	90.31	120.16
1	C	44	ASP	N-CA-CB	-21.78	74.38	110.53
1	D	148	GLN	O-C-N	-21.76	97.85	123.31
1	E	9	HIS	CA-C-N	21.76	163.09	121.54
1	E	9	HIS	C-N-CA	21.76	163.09	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	31	THR	CA-CB-CG2	21.74	147.46	110.50
1	D	91	VAL	O-C-N	-21.70	99.63	123.07
1	D	209	SER	N-CA-CB	-21.69	78.60	111.56
1	A	56	THR	CA-C-O	21.68	147.21	120.54
1	E	225	LEU	N-CA-CB	-21.67	77.91	110.84
1	B	28	PHE	CA-CB-CG	21.56	135.36	113.80
1	D	83	THR	CA-C-O	-21.55	89.69	120.51
1	F	70	ILE	CA-CB-CG1	-21.54	73.78	110.40
1	F	190	ASN	CB-CG-ND2	21.51	148.66	116.40
1	A	59	ARG	NE-CZ-NH1	21.41	142.91	121.50
1	C	124	GLY	N-CA-C	21.40	152.28	113.76
1	D	21	GLN	CB-CG-CD	21.40	148.99	112.60
1	A	137	HIS	CB-CG-CD2	-21.38	103.40	131.20
1	D	124	GLY	CA-C-N	21.35	162.31	121.54
1	D	124	GLY	C-N-CA	21.35	162.31	121.54
1	A	7	LEU	CA-C-O	-21.30	98.11	120.90
1	F	100	VAL	CA-CB-CG2	21.26	146.54	110.40
1	C	16	THR	CA-C-O	-21.20	97.58	120.89
1	B	201	ILE	O-C-N	-21.18	96.10	122.57
1	A	198	ASN	CA-C-N	21.14	161.91	121.54
1	A	198	ASN	C-N-CA	21.14	161.91	121.54
1	A	142	HIS	CA-C-O	21.11	130.18	117.94
1	B	21	GLN	CG-CD-NE2	21.06	147.99	116.40
1	D	130	SER	CA-C-N	21.05	159.59	121.70
1	D	130	SER	C-N-CA	21.05	159.59	121.70
1	D	144	THR	N-CA-CB	21.00	145.97	110.49
1	E	139	GLN	OE1-CD-NE2	20.95	143.55	122.60
1	F	224	ASN	CA-C-N	20.92	161.50	121.54
1	F	224	ASN	C-N-CA	20.92	161.50	121.54
1	F	130	SER	CA-C-N	20.91	159.34	121.70
1	F	130	SER	C-N-CA	20.91	159.34	121.70
1	D	89	ASN	O-C-N	-20.89	94.80	122.59
1	C	4	LEU	CA-C-O	-20.89	98.14	120.70
1	D	184	ARG	NE-CZ-NH2	-20.80	100.48	119.20
1	E	59	ARG	NE-CZ-NH1	20.80	142.30	121.50
1	B	89	ASN	CB-CG-ND2	20.78	147.56	116.40
1	D	142	HIS	N-CA-C	20.77	138.75	113.41
1	D	95	GLN	OE1-CD-NE2	-20.70	101.90	122.60
1	A	125	ASN	N-CA-C	20.67	139.55	112.88
1	B	5	PHE	CE1-CZ-CE2	-20.67	82.79	120.00
1	A	95	GLN	CB-CG-CD	20.65	147.70	112.60
1	F	232	LEU	CA-C-O	-20.64	94.02	119.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	107	LEU	CA-C-O	-20.61	91.84	119.47
1	A	15	GLN	CG-CD-NE2	20.60	147.30	116.40
1	A	157	GLU	CG-CD-OE1	20.60	165.78	118.40
1	B	196	LEU	CA-C-O	20.60	149.97	120.51
1	F	137	HIS	O-C-N	20.59	139.51	121.80
1	D	1	ASN	CA-CB-CG	20.55	133.15	112.60
1	D	107	LEU	CA-C-O	-20.55	91.13	120.51
1	D	56	THR	N-CA-CB	20.54	148.31	111.13
1	B	72	THR	CA-CB-CG2	20.54	145.41	110.50
1	C	194	ASP	CA-CB-CG	20.50	133.10	112.60
1	B	190	ASN	CB-CG-ND2	20.48	147.12	116.40
1	D	170	ARG	NE-CZ-NH2	20.48	137.63	119.20
1	A	129	TYR	CA-C-O	-20.46	91.25	120.51
1	E	33	GLN	CG-CD-OE1	20.44	161.67	120.80
1	A	108	TRP	CA-C-O	-20.43	95.15	120.28
1	D	229	GLY	N-CA-C	20.43	141.56	111.12
1	C	174	THR	CA-C-N	20.42	150.99	122.19
1	C	174	THR	C-N-CA	20.42	150.99	122.19
1	B	75	ASN	CA-CB-CG	-20.34	92.26	112.60
1	A	30	PHE	CA-C-N	20.33	149.75	122.30
1	A	30	PHE	C-N-CA	20.33	149.75	122.30
1	C	118	VAL	CA-C-N	20.32	158.56	121.97
1	C	118	VAL	C-N-CA	20.32	158.56	121.97
1	B	64	SER	N-CA-CB	-20.32	76.15	110.49
1	A	105	PRO	CA-C-N	-20.31	100.21	122.55
1	A	105	PRO	C-N-CA	-20.31	100.21	122.55
1	F	37	ASN	CA-CB-CG	20.29	132.89	112.60
1	B	143	ALA	CA-C-O	-20.29	91.50	120.51
1	A	206	SER	O-C-N	-20.27	95.64	122.59
1	C	130	SER	N-CA-CB	20.24	144.70	110.49
1	D	175	ASN	CA-CB-CG	20.24	132.84	112.60
1	D	185	ALA	N-CA-CB	-20.23	79.10	110.65
1	F	7	LEU	O-C-N	-20.22	95.70	122.59
1	D	16	THR	CA-C-N	-20.21	92.53	122.65
1	D	16	THR	C-N-CA	-20.21	92.53	122.65
1	A	49	ALA	CA-C-O	-20.21	99.68	121.31
1	F	214	ARG	CG-CD-NE	20.19	156.41	112.00
1	F	83	THR	O-C-N	-20.18	99.78	122.79
1	B	195	VAL	CA-C-O	-20.18	95.56	120.78
1	A	153	ARG	CD-NE-CZ	20.11	152.55	124.40
1	E	146	SER	O-C-N	-20.07	95.90	122.59
1	E	111	GLY	O-C-N	20.01	143.32	122.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	38	LEU	O-C-N	-20.00	95.99	122.59
1	B	33	GLN	CG-CD-NE2	19.99	146.39	116.40
1	A	92	LEU	N-CA-CB	19.91	148.54	111.11
1	E	131	THR	CA-C-O	19.90	154.64	120.80
1	A	33	GLN	CA-C-N	19.90	159.55	121.54
1	A	33	GLN	C-N-CA	19.90	159.55	121.54
1	F	54	GLY	CA-C-N	19.89	159.53	121.54
1	F	54	GLY	C-N-CA	19.89	159.53	121.54
1	E	125	ASN	N-CA-C	19.88	140.97	112.94
1	A	221	PRO	CB-CA-C	19.85	144.32	111.56
1	C	175	ASN	N-CA-CB	19.81	142.04	112.13
1	D	70	ILE	N-CA-CB	-19.81	85.89	111.64
1	D	99	THR	CA-CB-CG2	19.80	144.16	110.50
1	C	127	ILE	CA-C-N	19.79	148.81	120.71
1	C	127	ILE	C-N-CA	19.79	148.81	120.71
1	D	72	THR	CA-CB-CG2	19.77	144.11	110.50
1	F	166	ASP	CA-CB-CG	19.76	132.36	112.60
1	F	143	ALA	CA-C-O	-19.75	98.41	121.72
1	C	171	VAL	CA-C-O	-19.73	98.62	120.32
1	A	217	PHE	CA-C-O	-19.70	99.08	120.36
1	C	153	ARG	NH1-CZ-NH2	19.66	144.85	119.30
1	D	92	LEU	CA-C-O	-19.64	98.41	120.60
1	D	76	THR	O-C-N	-19.63	100.12	123.29
1	C	224	ASN	OD1-CG-ND2	19.62	142.22	122.60
1	D	130	SER	CA-C-O	19.60	148.54	120.51
1	D	189	PRO	N-CA-CB	19.58	123.81	103.25
1	D	198	ASN	OD1-CG-ND2	19.58	142.18	122.60
1	A	170	ARG	NE-CZ-NH2	19.56	136.81	119.20
1	F	26	SER	CA-C-N	19.55	158.88	121.54
1	F	26	SER	C-N-CA	19.55	158.88	121.54
1	D	37	ASN	CA-CB-CG	-19.54	93.06	112.60
1	E	214	ARG	O-C-N	-19.53	97.43	122.82
1	F	26	SER	CA-CB-OG	19.53	150.16	111.10
1	C	40	LEU	O-C-N	-19.50	97.66	123.01
1	A	15	GLN	N-CA-C	-19.46	83.92	114.09
1	B	222	ASP	CA-C-O	-19.45	95.20	119.31
1	F	184	ARG	NH1-CZ-NH2	19.43	144.55	119.30
1	A	113	SER	O-C-N	-19.39	98.73	123.16
1	E	163	VAL	O-C-N	19.38	144.32	123.00
1	A	123	ASN	CA-C-N	19.35	159.34	121.41
1	A	123	ASN	C-N-CA	19.35	159.34	121.41
1	E	128	LEU	O-C-N	-19.32	96.88	122.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	138	PRO	CA-N-CD	-19.31	84.96	112.00
1	F	54	GLY	O-C-N	-19.30	97.61	122.70
1	C	59	ARG	NE-CZ-NH2	-19.29	101.84	119.20
1	B	101	THR	CA-CB-OG1	-19.28	80.68	109.60
1	F	47	VAL	CA-C-O	-19.27	100.46	120.69
1	F	129	TYR	N-CA-CB	-19.26	77.94	110.49
1	D	223	ARG	CA-C-N	19.23	152.62	122.62
1	D	223	ARG	C-N-CA	19.23	152.62	122.62
1	A	200	ASN	OD1-CG-ND2	-19.22	103.38	122.60
1	A	125	ASN	CA-CB-CG	19.16	131.76	112.60
1	E	18	HIS	CA-C-O	-19.12	106.28	118.33
1	E	35	ASP	O-C-N	-19.11	97.79	122.83
1	B	217	PHE	CA-C-O	-19.11	93.18	120.51
1	C	206	SER	O-C-N	-19.11	96.09	122.46
1	E	137	HIS	CA-C-N	19.08	143.69	119.84
1	E	137	HIS	C-N-CA	19.08	143.69	119.84
1	F	220	GLN	OE1-CD-NE2	-19.07	103.53	122.60
1	C	131	THR	CA-CB-OG1	19.03	138.14	109.60
1	D	35	ASP	O-C-N	-19.01	97.87	122.20
1	F	128	LEU	CB-CA-C	19.00	147.57	109.76
1	D	19	ALA	CA-C-N	-18.97	94.54	122.24
1	D	19	ALA	C-N-CA	-18.97	94.54	122.24
1	D	146	SER	N-CA-C	18.96	143.48	114.09
1	B	190	ASN	OD1-CG-ND2	-18.95	103.65	122.60
1	C	197	THR	CA-CB-OG1	-18.95	81.18	109.60
1	B	2	ASN	CA-CB-CG	18.94	131.54	112.60
1	A	153	ARG	NE-CZ-NH2	18.93	136.24	119.20
1	F	65	ASP	N-CA-CB	-18.93	80.63	110.92
1	B	105	PRO	CA-C-O	-18.92	86.16	120.60
1	D	59	ARG	CA-C-O	18.90	143.55	121.44
1	C	137	HIS	CA-C-O	-18.89	101.87	120.94
1	D	114	ASN	CA-CB-CG	18.87	131.47	112.60
1	D	197	THR	CA-CB-OG1	-18.86	81.31	109.60
1	D	213	GLY	O-C-N	18.86	145.49	123.61
1	E	128	LEU	CD1-CG-CD2	-18.84	69.35	110.80
1	A	29	ARG	CA-CB-CG	18.83	151.75	114.10
1	E	13	HIS	CA-C-O	-18.82	94.37	120.16
1	F	190	ASN	O-C-N	-18.82	97.56	122.59
1	F	230	GLY	O-C-N	-18.80	102.49	122.60
1	A	229	GLY	CA-C-N	18.79	158.24	121.41
1	A	229	GLY	C-N-CA	18.79	158.24	121.41
1	D	164	LEU	CA-C-O	-18.78	100.26	120.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	16	THR	CA-CB-CG2	-18.78	78.57	110.50
1	C	228	TYR	CA-C-O	18.73	140.56	120.33
1	F	141	LEU	N-CA-CB	-18.70	79.39	110.81
1	A	191	GLY	CA-C-N	18.68	149.85	122.95
1	A	191	GLY	C-N-CA	18.68	149.85	122.95
1	D	208	ASN	OD1-CG-ND2	18.65	141.25	122.60
1	C	89	ASN	CB-CG-OD1	-18.62	83.56	120.80
1	D	64	SER	CA-C-O	18.62	141.15	119.18
1	E	157	GLU	CA-C-O	-18.61	98.20	121.46
1	B	169	ASP	CA-C-O	18.61	142.84	120.14
1	D	106	GLY	O-C-N	-18.59	98.54	122.70
1	A	222	ASP	N-CA-C	-18.57	84.74	111.30
1	E	128	LEU	CB-CA-C	18.57	141.54	111.83
1	B	24	GLU	CA-C-O	-18.56	100.60	120.46
1	D	232	LEU	O-C-N	18.53	142.72	122.34
1	C	214	ARG	NE-CZ-NH1	-18.52	102.97	121.50
1	B	125	ASN	CB-CG-ND2	18.49	144.14	116.40
1	F	13	HIS	CA-C-N	18.49	142.95	119.84
1	F	13	HIS	C-N-CA	18.49	142.95	119.84
1	D	217	PHE	CA-CB-CG	-18.47	95.33	113.80
1	A	8	SER	CA-C-O	18.46	141.84	121.16
1	A	146	SER	N-CA-C	18.43	150.07	110.80
1	F	55	ALA	O-C-N	-18.43	98.08	122.59
1	F	101	THR	CA-CB-OG1	-18.43	81.96	109.60
1	D	158	THR	CA-C-O	-18.42	95.53	119.11
1	B	217	PHE	O-C-N	18.39	147.05	122.59
1	F	129	TYR	CA-C-N	18.38	156.65	121.54
1	F	129	TYR	C-N-CA	18.38	156.65	121.54
1	C	168	ASP	OD1-CG-OD2	-18.37	78.81	122.90
1	B	107	LEU	O-C-N	-18.35	98.19	122.59
1	A	179	LYS	CA-C-O	-18.34	100.43	119.51
1	C	210	ARG	CD-NE-CZ	-18.33	98.74	124.40
1	A	214	ARG	O-C-N	-18.32	98.14	123.06
1	D	101	THR	CA-CB-OG1	-18.31	82.13	109.60
1	D	56	THR	CA-C-N	18.31	157.30	121.41
1	D	56	THR	C-N-CA	18.31	157.30	121.41
1	A	88	GLY	CA-C-O	18.30	152.40	120.57
1	E	230	GLY	O-C-N	18.29	137.04	123.14
1	B	5	PHE	CA-CB-CG	18.28	132.08	113.80
1	B	70	ILE	CA-C-O	18.28	139.74	120.36
1	F	37	ASN	OD1-CG-ND2	18.26	140.86	122.60
1	B	42	ASP	CA-CB-CG	18.22	130.82	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	170	ARG	O-C-N	-18.21	98.37	122.59
1	D	87	ILE	CA-C-O	-18.17	98.07	120.78
1	F	92	LEU	CA-C-O	-18.16	100.58	120.38
1	C	210	ARG	O-C-N	-18.15	98.45	122.59
1	E	34	SER	CA-C-O	-18.13	99.81	121.02
1	D	196	LEU	O-C-N	-18.12	101.63	123.01
1	D	34	SER	CA-CB-OG	-18.12	74.86	111.10
1	B	47	VAL	CA-CB-CG1	-18.11	79.61	110.40
1	F	145	GLN	OE1-CD-NE2	18.11	140.71	122.60
1	F	85	GLY	O-C-N	-18.09	97.05	122.92
1	A	93	VAL	CA-C-O	-18.09	98.05	121.02
1	D	188	GLN	CG-CD-NE2	18.06	143.50	116.40
1	C	93	VAL	CA-C-O	-18.06	99.54	120.67
1	B	167	ARG	N-CA-CB	18.04	140.97	110.49
1	F	128	LEU	N-CA-C	-18.03	86.21	110.55
1	D	64	SER	CB-CA-C	18.02	141.35	109.99
1	C	123	ASN	CA-C-N	18.02	154.71	120.66
1	C	123	ASN	C-N-CA	18.02	154.71	120.66
1	E	218	VAL	CA-C-O	-18.01	101.27	120.36
1	C	232	LEU	CA-C-O	-18.01	94.76	120.51
1	D	105	PRO	CA-N-CD	-18.01	86.79	112.00
1	E	5	PHE	CA-CB-CG	18.00	131.80	113.80
1	C	132	GLN	CA-CB-CG	18.00	150.10	114.10
1	F	110	SER	CA-C-O	-17.99	99.28	119.97
1	B	42	ASP	CA-C-O	-17.99	99.28	121.58
1	F	103	TYR	CA-C-O	17.98	140.28	120.32
1	F	225	LEU	N-CA-CB	17.96	140.84	110.49
1	C	46	ARG	CD-NE-CZ	17.95	149.53	124.40
1	D	221	PRO	O-C-N	-17.95	97.88	122.30
1	E	33	GLN	CA-CB-CG	17.94	149.98	114.10
1	B	59	ARG	CB-CA-C	-17.93	81.12	109.99
1	A	157	GLU	CA-C-O	-17.91	100.94	121.89
1	C	94	LEU	CA-C-O	-17.91	101.10	121.16
1	F	217	PHE	CA-CB-CG	-17.91	95.89	113.80
1	C	137	HIS	N-CA-C	17.89	140.91	109.06
1	C	192	ARG	CD-NE-CZ	17.89	149.44	124.40
1	D	27	SER	CA-C-N	17.87	155.67	121.54
1	D	27	SER	C-N-CA	17.87	155.67	121.54
1	F	83	THR	CA-C-N	17.86	150.09	121.86
1	F	83	THR	C-N-CA	17.86	150.09	121.86
1	A	166	ASP	CA-CB-CG	17.85	130.45	112.60
1	F	125	ASN	CA-C-N	17.85	152.72	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	125	ASN	C-N-CA	17.85	152.72	120.95
1	A	174	THR	CA-C-O	17.84	138.68	119.05
1	C	128	LEU	CB-CA-C	17.84	139.34	109.72
1	A	223	ARG	CG-CD-NE	17.82	151.21	112.00
1	B	31	THR	CA-CB-OG1	-17.81	82.89	109.60
1	D	210	ARG	CA-C-O	-17.76	95.11	120.51
1	C	61	VAL	CB-CA-C	-17.75	82.17	111.29
1	F	44	ASP	CA-CB-CG	-17.74	94.86	112.60
1	E	130	SER	CA-C-O	-17.73	95.16	120.51
1	A	47	VAL	N-CA-C	17.71	128.50	111.67
1	D	21	GLN	CA-CB-CG	17.71	149.52	114.10
1	A	208	ASN	CA-C-O	-17.69	100.57	120.92
1	D	18	HIS	CA-C-O	-17.67	95.24	120.51
1	E	97	ASP	CA-CB-CG	17.65	130.25	112.60
1	B	109	ASP	CA-CB-CG	-17.65	94.95	112.60
1	A	33	GLN	OE1-CD-NE2	17.64	140.24	122.60
1	D	223	ARG	O-C-N	-17.63	99.14	122.59
1	E	123	ASN	CA-CB-CG	17.61	130.21	112.60
1	A	8	SER	CA-C-N	17.61	155.18	121.54
1	A	8	SER	C-N-CA	17.61	155.18	121.54
1	D	137	HIS	CA-C-N	17.58	140.00	120.13
1	D	137	HIS	C-N-CA	17.58	140.00	120.13
1	F	73	ALA	CA-C-O	17.57	140.75	119.49
1	B	68	LEU	CA-C-N	-17.57	98.52	122.94
1	B	68	LEU	C-N-CA	-17.57	98.52	122.94
1	A	170	ARG	CB-CG-CD	17.55	151.67	111.30
1	B	93	VAL	O-C-N	17.55	142.70	122.69
1	B	61	VAL	CA-C-O	17.54	142.71	120.78
1	C	214	ARG	CA-CB-CG	17.53	149.16	114.10
1	F	201	ILE	CA-C-O	-17.53	101.07	121.75
1	C	25	LEU	CB-CA-C	-17.52	86.44	110.79
1	B	137	HIS	CB-CG-ND1	17.51	148.97	122.70
1	A	19	ALA	CB-CA-C	17.51	145.27	110.42
1	B	60	ALA	N-CA-CB	17.49	139.72	110.33
1	A	60	ALA	CA-C-O	-17.48	99.65	119.41
1	D	210	ARG	CA-CB-CG	17.48	149.07	114.10
1	D	16	THR	CA-C-O	-17.47	100.67	121.11
1	B	73	ALA	CA-C-N	17.45	157.21	122.31
1	B	73	ALA	C-N-CA	17.45	157.21	122.31
1	D	80	SER	O-C-N	-17.42	102.89	123.27
1	A	63	GLN	N-CA-C	17.41	134.03	109.31
1	F	216	VAL	O-C-N	-17.40	103.86	123.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	137	HIS	N-CA-C	17.39	142.01	108.45
1	E	231	ALA	N-CA-CB	17.38	139.87	110.49
1	A	58	CYS	N-CA-CB	-17.36	84.45	109.97
1	B	7	LEU	O-C-N	-17.35	99.52	122.59
1	D	72	THR	CA-CB-OG1	-17.34	83.59	109.60
1	F	78	ARG	CA-C-O	17.34	139.56	119.27
1	E	59	ARG	CA-CB-CG	17.32	148.75	114.10
1	C	9	HIS	CA-CB-CG	17.31	131.11	113.80
1	D	194	ASP	CA-CB-CG	-17.29	95.31	112.60
1	A	14	PRO	CA-N-CD	-17.28	87.31	111.50
1	D	187	LEU	N-CA-CB	17.27	137.69	110.57
1	A	5	PHE	CA-C-O	-17.27	101.06	120.92
1	D	186	VAL	CA-C-N	-17.25	99.19	123.00
1	D	186	VAL	C-N-CA	-17.25	99.19	123.00
1	A	182	GLY	CA-C-O	-17.23	90.58	120.57
1	A	200	ASN	O-C-N	-17.20	99.72	122.59
1	F	217	PHE	CA-C-O	-17.20	102.13	120.70
1	B	209	SER	N-CA-C	17.20	130.87	108.34
1	D	48	TRP	O-C-N	17.18	142.73	123.48
1	A	224	ASN	CA-C-N	-17.16	98.04	122.93
1	A	224	ASN	C-N-CA	-17.16	98.04	122.93
1	A	124	GLY	N-CA-C	17.15	153.83	113.18
1	D	216	VAL	CB-CA-C	17.14	139.27	110.30
1	F	152	TYR	CA-C-O	-17.14	102.19	120.70
1	E	139	GLN	CA-C-O	-17.14	99.39	119.78
1	B	100	VAL	CB-CA-C	17.14	134.15	110.84
1	A	184	ARG	CA-C-O	17.13	139.56	121.23
1	D	148	GLN	CB-CG-CD	17.11	141.68	112.60
1	B	105	PRO	CA-N-CD	-17.10	88.06	112.00
1	F	104	GLY	C-N-CD	-17.09	82.99	120.60
1	F	149	LEU	CA-C-O	-17.09	96.07	120.51
1	A	48	TRP	CA-C-O	-17.09	101.44	121.44
1	A	75	ASN	OD1-CG-ND2	17.09	139.69	122.60
1	B	126	SER	O-C-N	-17.09	103.31	122.79
1	B	110	SER	CA-C-O	-17.06	97.27	119.11
1	E	99	THR	N-CA-C	17.05	137.58	108.76
1	E	230	GLY	CA-C-O	-17.05	99.22	120.54
1	E	223	ARG	CG-CD-NE	17.05	149.51	112.00
1	B	234	THR	CA-C-N	17.04	152.37	121.70
1	B	234	THR	C-N-CA	17.04	152.37	121.70
1	C	38	LEU	CA-C-N	17.04	152.64	121.97
1	C	38	LEU	C-N-CA	17.04	152.64	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	75	ASN	OD1-CG-ND2	17.04	139.64	122.60
1	A	104	GLY	O-C-N	17.00	138.77	121.77
1	D	130	SER	O-C-N	-17.00	99.98	122.59
1	E	1	ASN	CB-CG-ND2	16.98	141.87	116.40
1	D	167	ARG	CG-CD-NE	16.98	149.35	112.00
1	E	170	ARG	CB-CG-CD	16.98	150.35	111.30
1	C	48	TRP	CA-C-O	-16.96	103.02	121.33
1	A	181	THR	CA-CB-OG1	-16.96	84.17	109.60
1	B	79	TRP	CA-C-O	-16.95	101.16	120.31
1	D	167	ARG	NE-CZ-NH1	-16.95	104.55	121.50
1	A	105	PRO	CA-N-CD	-16.94	88.28	112.00
1	D	184	ARG	O-C-N	-16.94	103.62	123.27
1	A	127	ILE	CA-CB-CG1	16.93	139.17	110.40
1	D	9	HIS	CA-CB-CG	16.92	130.72	113.80
1	F	24	GLU	CA-CB-CG	16.91	147.93	114.10
1	F	129	TYR	CB-CG-CD2	16.90	146.15	120.80
1	B	128	LEU	CB-CG-CD1	16.89	161.38	110.70
1	B	54	GLY	CA-C-O	-16.89	91.18	120.57
1	B	11	GLY	CA-C-N	16.88	153.78	121.54
1	B	11	GLY	C-N-CA	16.88	153.78	121.54
1	C	2	ASN	OD1-CG-ND2	-16.87	105.73	122.60
1	C	153	ARG	NE-CZ-NH2	-16.87	104.01	119.20
1	F	30	PHE	CA-C-N	16.87	152.61	122.92
1	F	30	PHE	C-N-CA	16.87	152.61	122.92
1	B	75	ASN	O-C-N	16.86	143.08	122.00
1	A	90	TYR	CA-C-N	16.86	146.96	121.85
1	A	90	TYR	C-N-CA	16.86	146.96	121.85
1	B	13	HIS	O-C-N	-16.82	101.95	121.12
1	D	203	VAL	CA-CB-CG1	16.82	138.99	110.40
1	F	202	ALA	CB-CA-C	16.82	139.76	111.68
1	C	234	THR	O-C-N	-16.81	101.04	122.73
1	D	13	HIS	O-C-N	-16.81	101.99	121.32
1	C	124	GLY	O-C-N	-16.80	107.28	122.57
1	F	149	LEU	N-CA-CB	16.80	138.88	110.49
1	A	15	GLN	CB-CA-C	16.79	136.82	109.80
1	A	146	SER	CA-CB-OG	-16.78	77.53	111.10
1	D	34	SER	O-C-N	-16.78	100.52	122.33
1	F	12	SER	CA-C-O	16.77	139.82	120.70
1	C	44	ASP	CA-CB-CG	-16.77	95.83	112.60
1	A	150	SER	O-C-N	16.76	140.60	121.32
1	B	138	PRO	CA-C-O	16.76	140.45	121.34
1	D	89	ASN	OD1-CG-ND2	16.76	139.36	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	222	ASP	CA-C-O	-16.75	101.58	121.34
1	B	77	ILE	CB-CA-C	-16.74	83.83	111.29
1	E	46	ARG	CB-CA-C	16.74	139.03	111.41
1	A	33	GLN	CA-C-O	16.72	143.13	121.89
1	D	183	CYS	CA-C-N	16.69	149.82	122.29
1	D	183	CYS	C-N-CA	16.69	149.82	122.29
1	C	109	ASP	CA-CB-CG	16.68	129.28	112.60
1	E	2	ASN	CB-CG-ND2	16.68	141.42	116.40
1	A	145	GLN	CA-CB-CG	16.65	147.40	114.10
1	B	56	THR	CA-CB-OG1	16.64	134.57	109.60
1	B	137	HIS	CB-CG-CD2	-16.64	109.57	131.20
1	C	128	LEU	CD1-CG-CD2	-16.62	74.23	110.80
1	D	88	GLY	CA-C-N	16.61	153.27	121.54
1	D	88	GLY	C-N-CA	16.61	153.27	121.54
1	E	137	HIS	CE1-NE2-CD2	-16.61	92.39	109.00
1	B	109	ASP	OD1-CG-OD2	16.60	162.74	122.90
1	F	83	THR	CB-CA-C	16.59	143.70	109.68
1	B	112	THR	CA-C-N	16.58	151.54	121.70
1	B	112	THR	C-N-CA	16.58	151.54	121.70
1	A	109	ASP	N-CA-CB	16.56	135.37	110.70
1	A	180	GLY	CA-C-O	-16.55	91.77	120.57
1	B	82	GLY	CA-C-O	16.55	149.37	120.57
1	B	161	ASN	OD1-CG-ND2	16.55	139.15	122.60
1	F	195	VAL	CB-CA-C	16.54	138.42	111.29
1	B	209	SER	O-C-N	16.52	148.54	122.61
1	C	210	ARG	CA-C-O	16.51	144.12	120.51
1	D	26	SER	CA-C-N	16.51	153.07	121.54
1	D	26	SER	C-N-CA	16.51	153.07	121.54
1	C	167	ARG	N-CA-C	-16.50	75.66	110.80
1	C	156	MET	O-C-N	16.49	142.71	122.93
1	E	58	CYS	CA-C-O	16.48	141.77	121.82
1	F	63	GLN	CG-CD-NE2	16.48	141.12	116.40
1	B	9	HIS	CB-CA-C	-16.48	82.58	110.09
1	B	22	SER	N-CA-CB	-16.46	81.33	111.13
1	D	233	TRP	CA-CB-CG	16.46	144.87	113.60
1	A	181	THR	N-CA-CB	16.45	133.53	110.67
1	C	151	PRO	CA-C-N	16.41	143.97	120.82
1	C	151	PRO	C-N-CA	16.41	143.97	120.82
1	D	46	ARG	CB-CG-CD	16.41	149.04	111.30
1	E	64	SER	O-C-N	-16.41	100.76	122.59
1	E	43	SER	CA-C-N	16.41	146.41	123.11
1	E	43	SER	C-N-CA	16.41	146.41	123.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	167	ARG	NE-CZ-NH2	16.39	133.95	119.20
1	E	142	HIS	N-CA-C	16.39	134.48	112.68
1	C	103	TYR	CA-C-N	16.38	147.59	121.87
1	C	103	TYR	C-N-CA	16.38	147.59	121.87
1	D	217	PHE	CB-CA-C	16.38	141.60	109.33
1	F	152	TYR	N-CA-C	16.37	136.08	109.40
1	D	12	SER	CB-CA-C	16.35	142.95	110.42
1	A	195	VAL	O-C-N	16.34	138.88	123.03
1	C	219	LEU	O-C-N	-16.34	102.78	122.87
1	A	100	VAL	CA-C-O	-16.33	99.76	121.32
1	B	101	THR	N-CA-C	16.32	135.29	109.50
1	F	78	ARG	CB-CG-CD	16.32	148.82	111.30
1	A	166	ASP	N-CA-CB	16.30	137.59	110.69
1	A	65	ASP	N-CA-C	-16.28	89.89	111.71
1	B	27	SER	CA-CB-OG	-16.27	78.56	111.10
1	B	189	PRO	CB-CA-C	-16.27	84.72	111.56
1	A	157	GLU	CG-CD-OE2	-16.26	81.00	118.40
1	D	126	SER	O-C-N	16.26	141.27	123.06
1	E	137	HIS	CB-CG-ND1	16.26	147.09	122.70
1	E	114	ASN	OD1-CG-ND2	16.23	138.83	122.60
1	E	159	ASP	O-C-N	-16.21	101.03	122.59
1	C	206	SER	CA-C-N	16.21	153.18	121.41
1	C	206	SER	C-N-CA	16.21	153.18	121.41
1	F	20	ALA	CA-C-O	16.19	139.05	119.78
1	D	143	ALA	CA-C-O	-16.19	97.36	120.51
1	A	145	GLN	CA-C-N	16.18	152.45	121.54
1	A	145	GLN	C-N-CA	16.18	152.45	121.54
1	F	61	VAL	CB-CA-C	-16.17	84.76	111.29
1	E	99	THR	CA-CB-OG1	-16.17	85.34	109.60
1	B	71	LEU	CA-C-N	16.16	154.55	122.07
1	B	71	LEU	C-N-CA	16.16	154.55	122.07
1	F	22	SER	CA-C-O	16.15	139.35	121.26
1	F	228	TYR	CA-C-O	-16.15	102.66	121.72
1	F	223	ARG	NH1-CZ-NH2	16.15	140.29	119.30
1	B	70	ILE	CB-CA-C	-16.14	86.77	110.33
1	A	2	ASN	CA-CB-CG	-16.13	96.47	112.60
1	C	166	ASP	CA-CB-CG	16.13	128.73	112.60
1	F	192	ARG	CA-C-N	16.11	144.54	121.50
1	F	192	ARG	C-N-CA	16.11	144.54	121.50
1	F	15	GLN	CB-CA-C	16.10	136.43	109.38
1	F	165	PHE	CA-C-O	-16.10	102.91	121.58
1	B	188	GLN	CA-C-N	16.10	139.96	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	188	GLN	C-N-CA	16.10	139.96	119.84
1	B	6	GLY	O-C-N	-16.09	101.78	122.70
1	D	139	GLN	O-C-N	16.07	141.63	122.19
1	D	176	THR	N-CA-CB	-16.06	84.38	111.21
1	A	198	ASN	CB-CG-ND2	16.06	140.49	116.40
1	D	91	VAL	CA-CB-CG1	16.03	137.65	110.40
1	B	89	ASN	CB-CG-OD1	-16.02	88.75	120.80
1	D	2	ASN	N-CA-C	16.02	132.13	112.59
1	D	89	ASN	CB-CG-OD1	-16.01	88.78	120.80
1	B	184	ARG	CD-NE-CZ	16.00	146.80	124.40
1	B	92	LEU	N-CA-CB	15.96	137.44	110.46
1	F	138	PRO	N-CA-CB	15.96	119.64	102.72
1	A	194	ASP	CA-C-N	-15.96	101.09	123.11
1	A	194	ASP	C-N-CA	-15.96	101.09	123.11
1	A	228	TYR	O-C-N	-15.96	103.80	123.27
1	E	89	ASN	CB-CG-OD1	-15.96	88.89	120.80
1	A	158	THR	CA-C-O	-15.95	100.19	119.49
1	E	181	THR	CA-C-N	-15.94	101.97	119.99
1	E	181	THR	C-N-CA	-15.94	101.97	119.99
1	B	224	ASN	O-C-N	-15.93	104.78	123.10
1	F	129	TYR	CB-CG-CD1	-15.92	96.91	120.80
1	D	65	ASP	N-CA-CB	-15.91	79.94	111.60
1	E	167	ARG	CD-NE-CZ	15.90	146.66	124.40
1	A	92	LEU	O-C-N	-15.89	101.44	123.06
1	B	138	PRO	N-CA-CB	15.89	117.45	103.31
1	C	128	LEU	CA-C-O	15.89	138.67	121.19
1	F	129	TYR	CE1-CZ-OH	-15.88	72.27	119.90
1	E	11	GLY	O-C-N	-15.87	106.42	122.77
1	D	196	LEU	CA-C-O	15.87	139.14	121.05
1	B	109	ASP	CB-CA-C	-15.86	83.02	110.45
1	A	30	PHE	CA-CB-CG	15.84	129.64	113.80
1	A	170	ARG	NH1-CZ-NH2	-15.83	98.72	119.30
1	A	14	PRO	N-CD-CG	15.83	122.80	103.80
1	B	12	SER	CA-CB-OG	15.83	142.75	111.10
1	E	30	PHE	CA-CB-CG	15.82	129.62	113.80
1	E	59	ARG	CD-NE-CZ	15.82	146.55	124.40
1	A	171	VAL	N-CA-CB	15.81	137.32	111.23
1	A	7	LEU	CB-CA-C	15.81	136.10	110.81
1	A	50	SER	CA-C-O	15.79	136.42	119.05
1	F	232	LEU	N-CA-C	15.79	133.28	112.12
1	F	2	ASN	N-CA-C	15.78	138.40	112.99
1	E	137	HIS	CB-CA-C	-15.78	86.36	110.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	150	SER	CA-C-O	-15.77	98.55	120.16
1	C	131	THR	N-CA-C	-15.77	91.01	110.41
1	D	8	SER	N-CA-CB	-15.77	83.84	110.49
1	A	189	PRO	N-CA-CB	15.74	118.48	103.52
1	A	191	GLY	O-C-N	-15.74	102.23	122.70
1	B	88	GLY	CA-C-N	15.74	143.35	122.42
1	B	88	GLY	C-N-CA	15.74	143.35	122.42
1	B	210	ARG	O-C-N	15.73	143.51	122.59
1	D	74	GLN	CA-CB-CG	-15.71	82.67	114.10
1	E	34	SER	CB-CA-C	15.71	136.93	110.84
1	B	139	GLN	OE1-CD-NE2	-15.71	106.89	122.60
1	F	60	ALA	O-C-N	-15.71	99.18	122.28
1	D	3	ILE	CA-CB-CG2	-15.71	83.80	110.50
1	A	4	LEU	CB-CA-C	15.70	137.12	109.65
1	B	104	GLY	O-C-N	15.69	137.46	121.77
1	E	107	LEU	CA-C-O	-15.68	98.09	120.51
1	B	55	ALA	N-CA-C	15.67	134.24	109.79
1	C	57	GLY	O-C-N	15.66	143.06	122.70
1	B	194	ASP	N-CA-C	15.65	133.75	107.93
1	F	13	HIS	CA-CB-CG	-15.65	98.15	113.80
1	D	144	THR	CA-CB-OG1	15.64	133.07	109.60
1	E	98	ARG	NH1-CZ-NH2	15.64	139.64	119.30
1	C	227	ILE	CA-C-O	-15.62	103.92	120.48
1	F	203	VAL	CA-CB-CG2	15.62	136.95	110.40
1	C	132	GLN	OE1-CD-NE2	-15.61	106.99	122.60
1	A	86	SER	CA-C-O	-15.61	98.19	120.51
1	F	72	THR	CA-CB-CG2	15.60	137.03	110.50
1	B	132	GLN	CA-C-O	15.60	147.32	120.80
1	F	31	THR	CA-CB-OG1	15.60	133.00	109.60
1	C	157	GLU	CA-C-N	15.59	145.83	121.98
1	C	157	GLU	C-N-CA	15.59	145.83	121.98
1	E	144	THR	CA-CB-OG1	15.59	132.98	109.60
1	B	214	ARG	NE-CZ-NH2	15.59	133.23	119.20
1	C	58	CYS	CB-CA-C	15.59	137.11	109.83
1	C	137	HIS	CB-CA-C	-15.58	86.03	109.56
1	C	146	SER	CA-C-O	-15.58	98.23	120.51
1	D	234	THR	CA-C-N	15.58	149.74	121.70
1	D	234	THR	C-N-CA	15.58	149.74	121.70
1	F	220	GLN	CA-CB-CG	-15.57	82.95	114.10
1	B	4	LEU	CA-C-O	-15.57	103.20	120.32
1	B	214	ARG	CB-CA-C	15.57	131.35	109.71
1	B	44	ASP	CA-CB-CG	15.56	128.16	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	88	GLY	N-CA-C	15.53	149.99	113.18
1	E	137	HIS	CB-CG-CD2	-15.53	111.01	131.20
1	B	235	THR	CA-CB-OG1	15.52	132.88	109.60
1	D	146	SER	O-C-N	-15.52	105.17	122.09
1	E	157	GLU	CB-CG-CD	-15.51	86.23	112.60
1	D	31	THR	CA-CB-OG1	-15.51	86.33	109.60
1	A	60	ALA	O-C-N	-15.51	100.34	122.36
1	D	202	ALA	CB-CA-C	15.51	141.28	110.42
1	E	71	LEU	CA-C-O	15.49	140.00	121.72
1	D	211	SER	N-CA-C	15.49	130.51	110.53
1	A	70	ILE	CA-C-N	15.49	145.73	122.65
1	A	70	ILE	C-N-CA	15.49	145.73	122.65
1	A	42	ASP	O-C-N	-15.48	103.02	122.68
1	A	182	GLY	O-C-N	15.48	142.82	122.70
1	C	211	SER	CA-C-O	-15.46	103.57	121.66
1	E	37	ASN	OD1-CG-ND2	15.45	138.05	122.60
1	F	186	VAL	CA-C-O	-15.43	105.91	121.49
1	D	192	ARG	O-C-N	-15.41	105.65	123.22
1	D	224	ASN	N-CA-CB	-15.40	83.35	111.37
1	E	157	GLU	OE1-CD-OE2	15.40	159.85	122.90
1	D	75	ASN	CA-CB-CG	-15.39	97.21	112.60
1	C	127	ILE	CA-CB-CG1	15.38	136.54	110.40
1	F	106	GLY	O-C-N	-15.36	102.73	122.70
1	C	145	GLN	OE1-CD-NE2	-15.36	107.24	122.60
1	F	138	PRO	CA-C-N	-15.35	98.39	122.49
1	F	138	PRO	C-N-CA	-15.35	98.39	122.49
1	D	25	LEU	CA-C-N	-15.35	97.62	121.56
1	D	25	LEU	C-N-CA	-15.35	97.62	121.56
1	E	102	ILE	CA-C-N	-15.35	97.35	122.21
1	E	102	ILE	C-N-CA	-15.35	97.35	122.21
1	E	188	GLN	CA-CB-CG	-15.35	83.41	114.10
1	B	21	GLN	OE1-CD-NE2	-15.34	107.26	122.60
1	B	105	PRO	CB-CA-C	-15.34	86.24	111.56
1	C	206	SER	CA-C-O	15.34	138.99	119.05
1	D	24	GLU	CA-C-O	-15.34	104.29	120.40
1	A	128	LEU	CD1-CG-CD2	-15.32	77.09	110.80
1	E	201	ILE	CB-CG1-CD1	15.31	145.96	113.80
1	A	107	LEU	CA-C-O	-15.31	98.61	120.51
1	F	224	ASN	CA-CB-CG	-15.31	97.29	112.60
1	D	190	ASN	OD1-CG-ND2	-15.30	107.30	122.60
1	C	227	ILE	N-CA-CB	15.29	132.05	111.25
1	F	222	ASP	CA-CB-CG	15.29	127.89	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	109	ASP	O-C-N	15.28	140.57	122.84
1	F	202	ALA	N-CA-CB	-15.27	85.18	110.53
1	D	171	VAL	CA-CB-CG2	15.27	136.35	110.40
1	B	98	ARG	NE-CZ-NH2	15.26	132.93	119.20
1	D	210	ARG	CD-NE-CZ	15.25	145.74	124.40
1	D	227	ILE	CA-C-O	-15.23	104.28	120.57
1	B	217	PHE	CA-CB-CG	-15.21	98.58	113.80
1	B	5	PHE	CD1-CG-CD2	-15.20	95.79	118.60
1	A	154	LEU	CA-C-N	-15.20	98.90	122.62
1	A	154	LEU	C-N-CA	-15.20	98.90	122.62
1	F	78	ARG	CG-CD-NE	15.20	145.44	112.00
1	B	13	HIS	N-CA-C	15.19	138.12	109.10
1	D	221	PRO	CB-CA-C	15.18	133.85	111.68
1	C	46	ARG	CA-C-N	15.18	149.29	121.97
1	C	46	ARG	C-N-CA	15.18	149.29	121.97
1	E	85	GLY	CA-C-N	15.16	150.50	121.54
1	E	85	GLY	C-N-CA	15.16	150.50	121.54
1	C	112	THR	O-C-N	-15.16	106.69	122.30
1	D	71	LEU	CA-C-O	-15.15	104.33	120.70
1	F	143	ALA	O-C-N	15.15	139.91	122.94
1	B	101	THR	CA-C-O	-15.15	103.39	121.11
1	F	30	PHE	CA-CB-CG	-15.14	98.66	113.80
1	B	16	THR	CA-C-N	-15.14	101.83	122.72
1	B	16	THR	C-N-CA	-15.14	101.83	122.72
1	C	188	GLN	CA-CB-CG	-15.13	83.84	114.10
1	A	220	GLN	CA-CB-CG	-15.12	83.85	114.10
1	B	142	HIS	ND1-CE1-NE2	-15.12	93.28	108.40
1	D	81	SER	O-C-N	-15.11	103.91	122.20
1	D	12	SER	N-CA-CB	-15.11	84.96	110.49
1	A	76	THR	CA-C-O	-15.11	104.52	120.84
1	A	64	SER	CA-CB-OG	-15.10	80.91	111.10
1	B	84	LYS	CB-CG-CD	15.10	146.02	111.30
1	F	146	SER	CA-C-O	-15.10	101.91	118.52
1	F	27	SER	CA-CB-OG	-15.08	80.93	111.10
1	B	22	SER	N-CA-C	15.08	134.53	108.75
1	B	138	PRO	CA-C-N	-15.07	99.17	122.37
1	B	138	PRO	C-N-CA	-15.07	99.17	122.37
1	C	200	ASN	CB-CG-ND2	15.05	138.97	116.40
1	C	178	GLY	CA-C-N	15.04	145.85	122.24
1	C	178	GLY	C-N-CA	15.04	145.85	122.24
1	B	97	ASP	CA-CB-CG	15.02	127.62	112.60
1	D	193	MET	CA-C-O	-15.02	103.57	120.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	40	LEU	CA-C-O	-15.00	104.15	120.80
1	E	24	GLU	O-C-N	-15.00	104.97	123.27
1	A	190	ASN	O-C-N	-14.99	101.59	121.83
1	B	13	HIS	CA-CB-CG	-14.99	98.81	113.80
1	A	20	ALA	O-C-N	14.99	142.52	122.59
1	B	85	GLY	CA-C-N	14.99	150.17	121.54
1	B	85	GLY	C-N-CA	14.99	150.17	121.54
1	A	44	ASP	CA-C-O	-14.98	99.09	120.51
1	C	180	GLY	N-CA-C	14.98	132.91	111.19
1	A	68	LEU	CA-C-O	-14.98	103.84	120.32
1	E	99	THR	CA-CB-CG2	14.98	135.96	110.50
1	A	188	GLN	OE1-CD-NE2	-14.97	107.62	122.60
1	A	13	HIS	CA-C-O	-14.97	105.82	120.94
1	A	87	ILE	O-C-N	-14.96	103.88	122.57
1	E	233	TRP	CA-C-O	-14.95	102.78	120.43
1	D	27	SER	CA-C-O	14.95	141.89	120.51
1	C	29	ARG	CA-C-N	-14.95	100.56	123.13
1	C	29	ARG	C-N-CA	-14.95	100.56	123.13
1	E	34	SER	CA-CB-OG	14.95	141.00	111.10
1	F	199	GLN	O-C-N	-14.94	104.94	122.27
1	F	51	ASN	OD1-CG-ND2	-14.94	107.67	122.60
1	F	131	THR	CA-C-O	14.93	146.19	120.80
1	F	70	ILE	CA-C-O	14.93	138.12	120.66
1	B	87	ILE	CA-CB-CG2	-14.92	85.14	110.50
1	F	3	ILE	O-C-N	14.92	138.35	123.14
1	F	209	SER	CA-CB-OG	14.91	140.93	111.10
1	A	190	ASN	N-CA-CB	-14.91	89.45	111.51
1	C	74	GLN	CG-CD-NE2	-14.90	94.05	116.40
1	C	197	THR	CA-CB-CG2	14.90	135.82	110.50
1	A	44	ASP	CB-CG-OD1	-14.89	84.14	118.40
1	A	113	SER	CA-C-N	14.88	144.38	122.95
1	A	113	SER	C-N-CA	14.88	144.38	122.95
1	A	110	SER	CA-C-N	14.88	150.58	121.41
1	A	110	SER	C-N-CA	14.88	150.58	121.41
1	A	97	ASP	CA-CB-CG	14.88	127.47	112.60
1	D	64	SER	O-C-N	-14.88	104.65	122.20
1	D	72	THR	N-CA-CB	-14.88	90.02	110.25
1	F	214	ARG	CB-CA-C	14.87	135.45	109.72
1	F	8	SER	CB-CA-C	14.86	140.00	110.42
1	F	70	ILE	N-CA-CB	-14.86	92.94	111.67
1	A	137	HIS	CA-C-O	-14.86	99.80	120.16
1	B	8	SER	CA-CB-OG	14.86	140.82	111.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	130	SER	O-C-N	-14.82	102.88	122.59
1	E	98	ARG	NE-CZ-NH1	-14.82	106.68	121.50
1	C	224	ASN	CA-CB-CG	-14.81	97.79	112.60
1	E	33	GLN	CA-C-O	14.81	141.69	120.51
1	A	180	GLY	O-C-N	14.80	141.94	122.70
1	C	164	LEU	CA-C-O	-14.79	104.05	120.32
1	C	105	PRO	CA-N-CD	-14.79	91.29	112.00
1	F	234	THR	OG1-CB-CG2	-14.79	79.72	109.30
1	D	141	LEU	CA-C-O	-14.78	104.48	120.30
1	D	232	LEU	CA-C-O	-14.78	102.36	118.77
1	E	202	ALA	CA-C-N	14.77	142.52	121.55
1	E	202	ALA	C-N-CA	14.77	142.52	121.55
1	F	168	ASP	CA-CB-CG	14.77	127.37	112.60
1	E	51	ASN	CA-CB-CG	14.76	127.36	112.60
1	B	64	SER	CB-CA-C	14.76	139.79	110.42
1	D	30	PHE	CA-CB-CG	-14.76	99.04	113.80
1	A	221	PRO	N-CA-CB	-14.74	87.77	103.25
1	E	169	ASP	CA-CB-CG	14.74	127.34	112.60
1	B	14	PRO	CA-C-N	-14.74	99.00	121.99
1	B	14	PRO	C-N-CA	-14.74	99.00	121.99
1	C	159	ASP	CB-CG-OD2	14.72	152.26	118.40
1	E	170	ARG	CA-C-O	-14.71	104.15	120.92
1	E	163	VAL	CA-C-O	-14.71	106.04	121.19
1	F	136	ASN	O-C-N	-14.71	99.47	123.00
1	B	78	ARG	CG-CD-NE	14.70	144.33	112.00
1	D	125	ASN	O-C-N	-14.70	103.04	122.59
1	F	224	ASN	O-C-N	-14.70	103.04	122.59
1	C	145	GLN	CB-CG-CD	14.68	137.56	112.60
1	D	162	LEU	O-C-N	-14.68	105.31	122.93
1	B	225	LEU	CA-C-O	-14.68	103.80	121.56
1	C	65	ASP	CA-C-O	-14.67	102.39	119.56
1	F	125	ASN	O-C-N	-14.67	103.08	122.59
1	A	72	THR	CA-CB-OG1	-14.66	87.61	109.60
1	B	124	GLY	CA-C-O	14.65	135.47	119.06
1	D	47	VAL	CA-CB-CG1	-14.65	85.50	110.40
1	A	224	ASN	CA-C-O	14.64	136.23	120.71
1	B	224	ASN	N-CA-CB	-14.63	88.44	111.56
1	D	131	THR	CA-C-O	14.62	145.66	120.80
1	A	206	SER	CA-C-N	14.62	150.06	121.41
1	A	206	SER	C-N-CA	14.62	150.06	121.41
1	F	192	ARG	CA-CB-CG	14.61	143.32	114.10
1	F	131	THR	N-CA-C	14.61	151.90	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	176	THR	CA-C-O	-14.61	105.88	121.36
1	F	191	GLY	CA-C-N	-14.60	102.40	122.99
1	F	191	GLY	C-N-CA	-14.60	102.40	122.99
1	A	98	ARG	NE-CZ-NH2	-14.60	106.06	119.20
1	B	1	ASN	OD1-CG-ND2	-14.60	108.00	122.60
1	E	136	ASN	N-CA-CB	14.60	135.31	110.50
1	A	166	ASP	CA-C-O	-14.59	102.19	120.57
1	B	214	ARG	O-C-N	-14.58	106.78	123.11
1	A	92	LEU	CB-CA-C	-14.58	91.70	111.82
1	A	65	ASP	CB-CG-OD2	14.58	151.93	118.40
1	D	100	VAL	O-C-N	-14.56	104.71	122.77
1	E	190	ASN	O-C-N	-14.56	104.92	122.25
1	D	71	LEU	O-C-N	14.56	142.16	123.23
1	B	165	PHE	CA-C-O	-14.56	104.66	121.11
1	C	198	ASN	CB-CG-ND2	14.56	138.23	116.40
1	D	193	MET	O-C-N	-14.55	106.02	123.04
1	B	38	LEU	CA-C-O	-14.54	103.62	120.49
1	C	58	CYS	CA-CB-SG	14.53	147.81	114.40
1	D	226	ALA	N-CA-C	-14.53	84.98	109.24
1	D	219	LEU	CD1-CG-CD2	-14.51	78.87	110.80
1	C	104	GLY	CA-C-N	14.50	137.96	119.84
1	C	104	GLY	C-N-CA	14.50	137.96	119.84
1	B	192	ARG	CG-CD-NE	14.49	143.87	112.00
1	A	125	ASN	CB-CA-C	-14.48	86.25	110.72
1	A	131	THR	N-CA-CB	14.48	136.12	111.50
1	A	138	PRO	N-CA-CB	14.48	118.45	103.25
1	B	192	ARG	O-C-N	14.48	140.93	123.27
1	D	203	VAL	CG1-CB-CG2	-14.48	78.95	110.80
1	F	73	ALA	O-C-N	-14.47	103.58	122.39
1	B	216	VAL	O-C-N	-14.46	104.49	122.57
1	C	168	ASP	CB-CG-OD1	-14.46	85.15	118.40
1	F	95	GLN	CG-CD-NE2	14.42	138.03	116.40
1	F	195	VAL	CA-C-O	-14.41	102.77	120.78
1	D	184	ARG	CA-C-N	14.40	143.31	123.00
1	D	184	ARG	C-N-CA	14.40	143.31	123.00
1	E	222	ASP	CA-C-O	-14.40	104.62	121.32
1	C	156	MET	CA-C-O	-14.39	105.18	120.58
1	C	165	PHE	CA-CB-CG	14.39	128.19	113.80
1	D	109	ASP	N-CA-C	14.39	129.61	108.60
1	B	190	ASN	CA-C-O	-14.38	99.95	120.51
1	D	67	LEU	CA-CB-CG	14.38	166.62	116.30
1	A	8	SER	O-C-N	-14.37	105.36	122.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	97	ASP	CA-CB-CG	14.36	126.96	112.60
1	F	74	GLN	OE1-CD-NE2	14.35	136.95	122.60
1	A	19	ALA	CA-C-O	-14.34	100.01	120.51
1	F	193	MET	CA-C-O	-14.34	104.34	120.69
1	D	39	VAL	CA-CB-CG2	14.32	134.74	110.40
1	B	86	SER	O-C-N	-14.27	103.62	122.59
1	B	129	TYR	N-CA-C	14.26	133.15	111.04
1	B	15	GLN	CA-CB-CG	14.25	142.60	114.10
1	C	19	ALA	CA-C-O	-14.24	101.65	119.31
1	C	142	HIS	CA-C-O	-14.24	109.68	117.94
1	D	203	VAL	N-CA-CB	14.24	128.27	110.47
1	D	6	GLY	O-C-N	14.23	134.56	123.61
1	D	194	ASP	O-C-N	14.23	141.63	123.14
1	A	218	VAL	O-C-N	14.22	138.54	123.18
1	C	219	LEU	CA-C-O	14.22	136.20	120.84
1	F	64	SER	CA-CB-OG	-14.22	82.65	111.10
1	B	91	VAL	CA-CB-CG1	14.21	134.56	110.40
1	A	139	GLN	O-C-N	14.21	137.72	122.23
1	F	139	GLN	CB-CA-C	14.21	134.04	111.02
1	F	219	LEU	CA-C-O	-14.21	104.68	121.02
1	C	141	LEU	CA-C-O	-14.20	105.49	120.40
1	A	203	VAL	CA-CB-CG1	14.20	134.54	110.40
1	D	15	GLN	CG-CD-OE1	-14.20	92.40	120.80
1	F	146	SER	N-CA-C	14.19	135.16	114.16
1	A	98	ARG	NH1-CZ-NH2	14.19	137.74	119.30
1	B	235	THR	CA-C-O	14.18	144.90	120.80
1	E	139	GLN	N-CA-C	-14.17	96.56	112.72
1	A	1	ASN	N-CA-CB	14.17	134.59	110.50
1	A	214	ARG	CA-CB-CG	14.16	142.43	114.10
1	F	153	ARG	CG-CD-NE	14.14	143.11	112.00
1	C	56	THR	CA-C-O	14.13	136.82	120.99
1	E	1	ASN	O-C-N	-14.13	100.39	123.00
1	F	59	ARG	CD-NE-CZ	-14.13	104.62	124.40
1	F	151	PRO	CA-C-N	14.13	144.13	122.94
1	F	151	PRO	C-N-CA	14.13	144.13	122.94
1	A	83	THR	CA-C-O	-14.12	104.48	121.56
1	F	187	LEU	O-C-N	14.11	140.58	123.36
1	C	176	THR	O-C-N	-14.11	103.82	122.59
1	D	51	ASN	CA-CB-CG	14.11	126.71	112.60
1	F	203	VAL	CA-C-O	-14.11	102.36	119.85
1	E	169	ASP	CA-C-N	14.11	140.71	120.82
1	E	169	ASP	C-N-CA	14.11	140.71	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	110	SER	O-C-N	-14.10	106.08	122.15
1	E	38	LEU	O-C-N	-14.09	106.55	123.04
1	B	139	GLN	CB-CA-C	14.09	134.87	110.64
1	C	3	ILE	O-C-N	14.09	138.07	123.00
1	B	72	THR	CA-C-N	14.08	148.44	121.54
1	B	72	THR	C-N-CA	14.08	148.44	121.54
1	D	209	SER	N-CA-C	14.08	130.11	108.42
1	D	78	ARG	CA-C-O	14.08	135.74	119.27
1	F	216	VAL	CA-C-O	14.08	135.69	121.19
1	C	145	GLN	CB-CA-C	14.08	130.79	110.24
1	C	40	LEU	CA-C-N	14.07	146.14	122.07
1	C	40	LEU	C-N-CA	14.07	146.14	122.07
1	D	194	ASP	CB-CA-C	-14.07	90.08	110.62
1	A	94	LEU	O-C-N	-14.06	106.96	123.27
1	C	99	THR	CA-CB-OG1	-14.06	88.50	109.60
1	C	37	ASN	OD1-CG-ND2	14.06	136.66	122.60
1	B	76	THR	CA-C-O	-14.04	105.56	120.58
1	C	159	ASP	CA-CB-CG	14.04	126.64	112.60
1	D	138	PRO	CA-C-N	-14.04	100.76	122.37
1	D	138	PRO	C-N-CA	-14.04	100.76	122.37
1	B	71	LEU	N-CA-CB	-14.03	85.73	111.13
1	F	100	VAL	CA-C-O	-14.03	104.86	120.71
1	C	22	SER	CA-C-N	14.02	142.35	123.00
1	C	22	SER	C-N-CA	14.02	142.35	123.00
1	A	117	SER	N-CA-C	14.01	127.83	111.71
1	E	228	TYR	CA-C-O	14.01	136.43	120.60
1	D	57	GLY	CA-C-N	14.01	141.53	121.50
1	D	57	GLY	C-N-CA	14.01	141.53	121.50
1	B	125	ASN	O-C-N	-14.01	103.96	122.59
1	A	148	GLN	O-C-N	-13.99	107.04	123.27
1	C	222	ASP	CA-C-O	-13.99	100.50	120.51
1	C	37	ASN	CB-CG-OD1	-13.99	92.82	120.80
1	B	93	VAL	CA-C-O	-13.99	103.72	121.48
1	C	24	GLU	O-C-N	-13.98	106.04	123.24
1	C	139	GLN	CG-CD-NE2	13.97	137.36	116.40
1	E	61	VAL	CA-C-O	13.97	138.24	120.78
1	B	22	SER	CB-CA-C	-13.97	82.03	109.68
1	B	45	VAL	CB-CA-C	13.96	134.18	111.29
1	F	99	THR	O-C-N	13.94	139.89	123.30
1	B	92	LEU	CA-C-O	-13.93	104.82	120.70
1	F	189	PRO	CA-C-O	-13.93	95.25	120.60
1	D	63	GLN	CA-C-N	-13.93	100.57	122.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	63	GLN	C-N-CA	-13.93	100.57	122.29
1	F	87	ILE	O-C-N	-13.92	105.17	122.57
1	E	10	GLU	CB-CA-C	13.90	138.09	110.42
1	E	46	ARG	N-CA-CB	-13.90	90.72	110.46
1	A	42	ASP	CA-CB-CG	-13.89	98.71	112.60
1	B	220	GLN	CA-C-O	13.89	133.12	120.34
1	A	40	LEU	O-C-N	13.88	139.43	123.19
1	E	89	ASN	CB-CG-ND2	13.88	137.22	116.40
1	B	58	CYS	N-CA-C	13.88	128.23	110.33
1	C	73	ALA	N-CA-C	-13.87	81.26	110.80
1	A	167	ARG	CD-NE-CZ	13.87	143.81	124.40
1	D	137	HIS	N-CA-C	13.87	124.33	108.25
1	E	225	LEU	CB-CA-C	13.87	131.56	110.62
1	C	86	SER	CA-C-O	-13.86	106.32	121.98
1	B	191	GLY	CA-C-N	-13.86	100.28	122.73
1	B	191	GLY	C-N-CA	-13.86	100.28	122.73
1	E	61	VAL	N-CA-C	13.86	138.16	109.34
1	B	137	HIS	CB-CA-C	-13.85	93.97	111.15
1	D	32	MET	N-CA-CB	13.85	132.31	110.57
1	E	141	LEU	CA-C-N	13.84	148.62	122.60
1	E	141	LEU	C-N-CA	13.84	148.62	122.60
1	A	176	THR	N-CA-C	-13.83	90.59	109.54
1	E	44	ASP	CA-CB-CG	13.83	126.43	112.60
1	F	192	ARG	CB-CA-C	13.83	135.02	109.71
1	C	39	VAL	O-C-N	-13.82	105.29	122.57
1	B	145	GLN	OE1-CD-NE2	-13.82	108.78	122.60
1	E	122	ASN	CA-C-N	13.82	149.30	123.32
1	E	122	ASN	C-N-CA	13.82	149.30	123.32
1	F	17	LEU	O-C-N	13.81	138.97	123.22
1	F	183	CYS	CA-C-N	13.81	151.52	123.20
1	F	183	CYS	C-N-CA	13.81	151.52	123.20
1	A	18	HIS	CA-C-N	13.81	147.92	121.54
1	A	18	HIS	C-N-CA	13.81	147.92	121.54
1	D	39	VAL	CA-C-N	13.81	140.79	122.84
1	D	39	VAL	C-N-CA	13.81	140.79	122.84
1	D	204	TRP	CA-C-O	-13.80	106.08	121.40
1	A	175	ASN	OD1-CG-ND2	13.80	136.40	122.60
1	C	150	SER	N-CA-CB	13.79	134.92	110.37
1	F	50	SER	O-C-N	-13.79	104.25	122.59
1	D	61	VAL	CB-CA-C	-13.78	88.69	111.29
1	D	70	ILE	CA-CB-CG1	-13.78	86.97	110.40
1	D	92	LEU	N-CA-CB	13.78	131.99	109.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	129	TYR	CA-C-O	-13.78	100.81	120.51
1	E	154	LEU	N-CA-CB	13.78	133.52	111.20
1	B	128	LEU	N-CA-C	-13.76	92.78	110.53
1	B	100	VAL	CA-CB-CG2	13.76	133.78	110.40
1	C	36	CYS	CA-CB-SG	-13.75	82.78	114.40
1	E	38	LEU	CA-C-N	13.75	142.93	122.58
1	E	38	LEU	C-N-CA	13.75	142.93	122.58
1	D	7	LEU	N-CA-CB	13.74	133.72	110.49
1	D	27	SER	O-C-N	-13.74	104.31	122.59
1	F	2	ASN	OD1-CG-ND2	13.74	136.34	122.60
1	B	48	TRP	N-CA-CB	-13.74	86.31	110.76
1	E	41	PHE	CA-CB-CG	13.73	127.53	113.80
1	A	92	LEU	CA-C-N	13.73	144.47	122.50
1	A	92	LEU	C-N-CA	13.73	144.47	122.50
1	A	61	VAL	N-CA-C	13.72	137.88	109.34
1	B	109	ASP	N-CA-CB	13.72	131.73	110.46
1	A	100	VAL	CG1-CB-CG2	-13.72	80.61	110.80
1	B	124	GLY	O-C-N	-13.72	105.01	122.43
1	F	72	THR	CA-CB-OG1	-13.71	89.04	109.60
1	A	169	ASP	O-C-N	13.71	139.91	123.33
1	F	97	ASP	CA-CB-CG	13.69	126.29	112.60
1	A	12	SER	N-CA-C	-13.69	87.03	109.07
1	F	129	TYR	OH-CZ-CE2	13.69	160.97	119.90
1	E	30	PHE	CA-C-N	13.69	142.34	122.09
1	E	30	PHE	C-N-CA	13.69	142.34	122.09
1	D	8	SER	CA-CB-OG	13.68	138.47	111.10
1	E	125	ASN	CB-CA-C	-13.67	87.12	110.64
1	D	190	ASN	O-C-N	-13.67	107.33	122.23
1	B	72	THR	CA-C-O	-13.66	105.60	121.72
1	B	58	CYS	CA-C-O	-13.65	106.60	122.03
1	D	154	LEU	CB-CG-CD1	13.65	151.65	110.70
1	B	212	ALA	CA-C-O	-13.65	105.49	121.05
1	A	90	TYR	O-C-N	-13.64	105.50	123.23
1	D	56	THR	O-C-N	-13.63	107.46	123.41
1	C	125	ASN	N-CA-C	13.63	139.84	110.80
1	E	156	MET	CA-C-N	-13.63	96.65	123.09
1	E	156	MET	C-N-CA	-13.63	96.65	123.09
1	A	3	ILE	N-CA-CB	-13.63	88.75	111.23
1	F	111	GLY	CA-C-O	13.62	149.41	120.80
1	D	15	GLN	CB-CA-C	13.62	131.90	109.02
1	F	77	ILE	N-CA-CB	-13.62	88.76	111.23
1	D	33	GLN	OE1-CD-NE2	13.62	136.22	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	150	SER	CA-C-O	-13.61	101.52	120.16
1	E	110	SER	N-CA-CB	13.61	130.27	110.13
1	E	62	LEU	O-C-N	13.60	140.69	123.28
1	A	139	GLN	N-CA-CB	-13.60	91.36	110.95
1	B	193	MET	O-C-N	-13.60	106.06	122.65
1	F	37	ASN	CB-CA-C	-13.60	87.36	109.80
1	F	67	LEU	CA-C-O	-13.60	105.84	121.47
1	B	214	ARG	N-CA-CB	-13.59	88.55	109.34
1	F	52	THR	CB-CA-C	-13.59	94.51	111.22
1	D	83	THR	O-C-N	-13.58	104.53	122.59
1	E	149	LEU	CA-C-N	-13.58	88.67	121.80
1	E	149	LEU	C-N-CA	-13.58	88.67	121.80
1	E	153	ARG	CD-NE-CZ	13.58	143.41	124.40
1	A	229	GLY	CA-C-O	13.58	144.20	120.57
1	B	163	VAL	O-C-N	-13.58	105.60	122.57
1	F	89	ASN	OD1-CG-ND2	13.57	136.17	122.60
1	F	110	SER	N-CA-C	-13.56	96.09	111.82
1	B	13	HIS	CA-C-O	-13.56	107.11	119.59
1	D	208	ASN	CB-CG-ND2	-13.56	96.06	116.40
1	F	184	ARG	N-CA-CB	13.55	133.45	110.14
1	D	206	SER	CA-C-O	-13.54	106.41	120.90
1	F	139	GLN	N-CA-C	-13.54	94.80	112.41
1	C	74	GLN	CA-C-N	13.54	141.16	122.34
1	C	74	GLN	C-N-CA	13.54	141.16	122.34
1	E	103	TYR	N-CA-CB	-13.54	88.13	111.69
1	F	195	VAL	CA-CB-CG1	13.53	133.41	110.40
1	D	99	THR	N-CA-C	-13.53	87.24	109.96
1	E	131	THR	OG1-CB-CG2	13.52	136.34	109.30
1	E	22	SER	CA-CB-OG	-13.52	84.07	111.10
1	A	47	VAL	CA-CB-CG1	-13.51	87.43	110.40
1	D	26	SER	O-C-N	-13.51	107.98	123.11
1	F	222	ASP	CB-CA-C	-13.51	88.66	110.94
1	E	232	LEU	N-CA-C	13.50	139.56	110.80
1	A	81	SER	O-C-N	-13.49	106.16	121.95
1	D	138	PRO	CA-N-CD	-13.49	93.11	112.00
1	A	99	THR	CA-CB-CG2	13.49	133.43	110.50
1	F	84	LYS	CB-CG-CD	13.49	142.32	111.30
1	A	190	ASN	CA-C-O	13.48	136.96	121.32
1	D	69	VAL	O-C-N	-13.48	108.82	122.97
1	B	153	ARG	NE-CZ-NH1	-13.47	108.03	121.50
1	D	95	GLN	CG-CD-OE1	13.47	147.74	120.80
1	E	137	HIS	ND1-CE1-NE2	13.47	121.87	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	47	VAL	CA-C-O	-13.47	105.56	121.18
1	B	128	LEU	O-C-N	-13.47	106.09	122.65
1	C	37	ASN	CA-C-O	-13.46	106.06	120.46
1	D	61	VAL	CA-C-N	13.46	141.96	122.44
1	D	61	VAL	C-N-CA	13.46	141.96	122.44
1	D	99	THR	O-C-N	13.46	138.77	123.16
1	D	197	THR	N-CA-C	13.46	130.20	110.28
1	E	223	ARG	NE-CZ-NH2	13.45	131.31	119.20
1	C	138	PRO	N-CA-CB	13.45	117.37	103.25
1	B	169	ASP	CA-CB-CG	-13.44	99.16	112.60
1	E	74	GLN	OE1-CD-NE2	-13.43	109.17	122.60
1	E	235	THR	CA-CB-OG1	13.42	129.74	109.60
1	E	1	ASN	CA-C-O	13.41	143.60	120.80
1	F	160	CYS	CA-C-O	13.41	139.69	120.51
1	D	97	ASP	CB-CG-OD1	-13.41	87.56	118.40
1	A	15	GLN	CA-CB-CG	13.40	140.90	114.10
1	B	30	PHE	O-C-N	-13.40	106.25	123.13
1	A	218	VAL	CA-C-O	-13.39	105.00	120.67
1	D	215	TYR	CA-C-O	-13.39	107.13	121.45
1	D	145	GLN	CA-C-N	13.38	142.72	121.44
1	D	145	GLN	C-N-CA	13.38	142.72	121.44
1	A	227	ILE	CA-C-N	13.38	144.40	122.73
1	A	227	ILE	C-N-CA	13.38	144.40	122.73
1	A	181	THR	CA-C-N	-13.37	95.20	121.41
1	A	181	THR	C-N-CA	-13.37	95.20	121.41
1	D	202	ALA	O-C-N	-13.37	104.80	122.59
1	B	232	LEU	O-C-N	-13.37	104.81	122.59
1	C	117	SER	O-C-N	-13.37	104.81	122.59
1	E	232	LEU	N-CA-CB	-13.36	87.91	110.49
1	A	194	ASP	OD1-CG-OD2	-13.36	90.85	122.90
1	B	2	ASN	N-CA-C	13.34	129.75	112.41
1	D	97	ASP	CB-CG-OD2	13.33	149.07	118.40
1	D	3	ILE	CA-C-N	13.33	142.87	123.14
1	D	3	ILE	C-N-CA	13.33	142.87	123.14
1	F	32	MET	CA-C-O	-13.33	105.85	120.38
1	F	184	ARG	CD-NE-CZ	13.33	143.06	124.40
1	D	79	TRP	CA-C-O	-13.32	104.16	120.54
1	F	61	VAL	O-C-N	13.32	139.22	122.57
1	F	188	GLN	CA-C-O	13.31	135.52	120.87
1	D	107	LEU	CB-CG-CD1	13.30	150.61	110.70
1	D	192	ARG	CD-NE-CZ	13.30	143.02	124.40
1	B	200	ASN	CA-C-N	13.29	145.90	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	200	ASN	C-N-CA	13.29	145.90	121.97
1	A	143	ALA	N-CA-C	-13.29	87.73	109.40
1	D	27	SER	CA-CB-OG	-13.29	84.52	111.10
1	E	167	ARG	NE-CZ-NH1	13.29	134.79	121.50
1	A	136	ASN	CA-CB-CG	13.27	125.87	112.60
1	F	101	THR	CA-C-O	-13.27	107.25	121.45
1	A	190	ASN	CA-C-N	13.26	147.39	121.41
1	A	190	ASN	C-N-CA	13.26	147.39	121.41
1	C	139	GLN	CB-CA-C	13.25	133.76	111.23
1	C	188	GLN	O-C-N	-13.23	106.98	121.53
1	E	58	CYS	N-CA-CB	-13.23	90.25	110.49
1	B	139	GLN	CG-CD-OE1	13.22	147.24	120.80
1	B	159	ASP	CA-C-N	13.22	146.79	121.54
1	B	159	ASP	C-N-CA	13.22	146.79	121.54
1	F	16	THR	N-CA-C	13.22	129.75	108.99
1	D	78	ARG	O-C-N	-13.21	104.36	122.46
1	A	196	LEU	O-C-N	13.21	140.36	123.19
1	C	129	TYR	O-C-N	-13.20	108.47	122.07
1	A	161	ASN	CA-CB-CG	13.20	125.80	112.60
1	D	151	PRO	O-C-N	-13.20	104.28	122.37
1	D	8	SER	CB-CA-C	13.19	136.67	110.42
1	B	146	SER	O-C-N	-13.19	105.42	121.64
1	D	214	ARG	NH1-CZ-NH2	-13.18	102.16	119.30
1	E	7	LEU	CA-C-N	13.18	140.77	122.19
1	E	7	LEU	C-N-CA	13.18	140.77	122.19
1	B	202	ALA	CB-CA-C	13.17	137.86	111.78
1	E	139	GLN	O-C-N	13.17	138.55	122.35
1	D	101	THR	N-CA-CB	-13.15	90.45	110.97
1	D	140	THR	CA-C-O	13.15	135.48	120.75
1	D	189	PRO	CA-N-CD	-13.15	93.59	112.00
1	D	200	ASN	CA-CB-CG	-13.14	99.46	112.60
1	E	214	ARG	CD-NE-CZ	13.13	142.78	124.40
1	D	167	ARG	O-C-N	-13.12	105.13	122.59
1	C	46	ARG	O-C-N	-13.12	105.14	122.59
1	D	226	ALA	CA-C-O	13.12	135.75	120.66
1	E	99	THR	O-C-N	-13.12	107.96	123.31
1	C	113	SER	N-CA-C	-13.12	93.22	110.53
1	A	16	THR	N-CA-C	13.11	129.48	108.76
1	E	193	MET	CA-C-N	13.11	141.79	122.39
1	E	193	MET	C-N-CA	13.11	141.79	122.39
1	A	74	GLN	OE1-CD-NE2	13.11	135.71	122.60
1	B	37	ASN	CA-C-O	-13.10	106.34	120.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	130	SER	CA-CB-OG	13.10	137.31	111.10
1	E	105	PRO	CA-N-CD	-13.10	93.66	112.00
1	E	20	ALA	O-C-N	-13.10	105.96	122.21
1	F	220	GLN	CA-C-O	13.10	136.47	121.01
1	E	217	PHE	CA-C-O	-13.10	106.56	120.70
1	A	59	ARG	N-CA-CB	13.09	132.41	111.20
1	C	6	GLY	CA-C-O	-13.09	105.93	122.82
1	F	89	ASN	CA-CB-CG	13.09	125.69	112.60
1	B	23	LEU	N-CA-CB	13.09	133.61	110.83
1	B	162	LEU	CB-CG-CD1	13.09	149.97	110.70
1	D	148	GLN	CA-C-O	13.08	134.84	120.32
1	E	72	THR	CA-C-N	13.08	146.52	121.54
1	E	72	THR	C-N-CA	13.08	146.52	121.54
1	C	189	PRO	O-C-N	-13.07	104.99	122.64
1	A	160	CYS	CA-C-O	-13.07	101.82	120.51
1	A	84	LYS	CD-CE-NZ	13.07	153.72	111.90
1	C	161	ASN	CA-C-N	-13.07	104.66	122.30
1	C	161	ASN	C-N-CA	-13.07	104.66	122.30
1	B	20	ALA	N-CA-C	-13.06	95.80	113.30
1	A	143	ALA	CB-CA-C	13.05	134.30	109.37
1	F	62	LEU	CA-C-O	13.05	134.45	120.36
1	C	186	VAL	CB-CA-C	13.04	131.56	110.69
1	F	192	ARG	O-C-N	-13.04	107.78	123.30
1	D	86	SER	CA-CB-OG	13.03	137.16	111.10
1	E	210	ARG	CA-C-O	13.03	139.14	120.51
1	D	223	ARG	CG-CD-NE	13.02	140.65	112.00
1	B	193	MET	N-CA-C	-13.02	94.40	110.41
1	D	30	PHE	CB-CA-C	-13.01	88.84	111.22
1	D	160	CYS	CA-C-N	13.01	140.96	123.00
1	D	160	CYS	C-N-CA	13.01	140.96	123.00
1	F	230	GLY	N-CA-C	-13.01	88.12	111.80
1	B	194	ASP	CB-CA-C	-13.01	92.13	110.34
1	F	92	LEU	CB-CG-CD1	13.00	149.71	110.70
1	C	147	LEU	N-CA-CB	12.99	132.45	110.49
1	E	86	SER	N-CA-CB	-12.99	88.54	110.49
1	B	205	THR	CA-CB-CG2	12.99	132.58	110.50
1	F	20	ALA	O-C-N	-12.98	106.38	122.35
1	E	18	HIS	N-CA-CB	12.98	132.43	110.49
1	F	128	LEU	CA-C-O	12.98	137.12	121.81
1	C	98	ARG	O-C-N	-12.97	105.03	122.41
1	D	3	ILE	CA-C-O	-12.96	105.95	120.72
1	F	154	LEU	CA-CB-CG	12.95	161.63	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	29	ARG	CA-C-O	12.94	139.02	120.51
1	A	71	LEU	CA-C-O	12.94	135.16	120.80
1	A	186	VAL	CA-C-N	-12.94	105.14	123.00
1	A	186	VAL	C-N-CA	-12.94	105.14	123.00
1	C	95	GLN	CG-CD-NE2	-12.94	96.99	116.40
1	F	192	ARG	N-CA-CB	-12.94	88.95	110.68
1	A	222	ASP	CB-CG-OD2	12.93	148.15	118.40
1	D	8	SER	CA-C-N	12.93	146.24	121.54
1	D	8	SER	C-N-CA	12.93	146.24	121.54
1	A	61	VAL	CA-CB-CG2	-12.93	88.42	110.40
1	C	66	GLY	CA-C-N	-12.93	100.66	122.64
1	C	66	GLY	C-N-CA	-12.93	100.66	122.64
1	C	105	PRO	N-CA-CB	12.93	116.82	103.25
1	D	203	VAL	CA-C-O	-12.93	107.60	121.05
1	F	55	ALA	CB-CA-C	12.93	136.14	110.42
1	C	25	LEU	N-CA-CB	12.92	130.48	110.71
1	B	193	MET	N-CA-CB	12.91	128.07	110.38
1	D	15	GLN	N-CA-C	-12.90	97.66	114.31
1	D	64	SER	CA-CB-OG	-12.90	85.29	111.10
1	B	129	TYR	CB-CA-C	-12.90	90.88	111.39
1	F	110	SER	CA-CB-OG	-12.90	85.30	111.10
1	E	129	TYR	CG-CD1-CE1	12.90	140.54	121.20
1	D	108	TRP	CE2-CD2-CE3	-12.89	105.91	118.80
1	F	18	HIS	CA-C-O	-12.89	102.08	120.51
1	A	13	HIS	CA-CB-CG	12.89	126.69	113.80
1	C	201	ILE	CA-CB-CG2	12.88	132.40	110.50
1	C	137	HIS	ND1-CE1-NE2	12.88	121.28	108.40
1	B	211	SER	O-C-N	12.85	137.43	122.79
1	B	190	ASN	CA-CB-CG	12.84	125.44	112.60
1	D	25	LEU	CA-C-O	-12.84	106.06	120.70
1	C	42	ASP	CA-C-O	-12.84	106.46	120.33
1	E	8	SER	CA-C-O	12.84	135.05	120.54
1	C	170	ARG	NE-CZ-NH1	-12.83	108.67	121.50
1	C	9	HIS	O-C-N	12.82	139.64	122.59
1	D	15	GLN	CA-CB-CG	12.82	139.74	114.10
1	F	46	ARG	NE-CZ-NH2	-12.81	107.67	119.20
1	F	31	THR	N-CA-CB	-12.80	91.13	110.85
1	D	58	CYS	N-CA-CB	-12.80	90.11	109.95
1	B	146	SER	N-CA-C	12.80	130.88	114.75
1	E	20	ALA	CB-CA-C	12.80	136.22	110.75
1	E	33	GLN	CB-CG-CD	12.79	134.35	112.60
1	D	107	LEU	N-CA-CB	12.79	132.10	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	67	LEU	CA-C-N	-12.79	105.15	123.05
1	E	67	LEU	C-N-CA	-12.79	105.15	123.05
1	C	58	CYS	CA-C-O	12.79	136.81	121.72
1	B	9	HIS	N-CA-CB	-12.78	91.57	110.49
1	D	228	TYR	CA-C-O	-12.77	106.57	120.36
1	E	34	SER	N-CA-C	-12.77	90.43	111.37
1	D	59	ARG	NH1-CZ-NH2	12.76	135.88	119.30
1	A	136	ASN	N-CA-C	-12.76	82.49	107.62
1	A	215	TYR	O-C-N	-12.75	106.97	122.65
1	B	155	SER	CA-C-N	12.74	141.99	123.14
1	B	155	SER	C-N-CA	12.74	141.99	123.14
1	C	142	HIS	CA-CB-CG	12.74	126.54	113.80
1	D	113	SER	N-CA-C	12.74	126.08	110.41
1	A	90	TYR	CA-CB-CG	-12.73	90.99	113.90
1	F	43	SER	CA-C-N	12.73	145.85	121.54
1	F	43	SER	C-N-CA	12.73	145.85	121.54
1	E	127	ILE	N-CA-C	12.72	126.25	107.80
1	B	71	LEU	CA-C-O	-12.72	104.90	120.54
1	F	61	VAL	CA-C-N	-12.72	105.06	122.99
1	F	61	VAL	C-N-CA	-12.72	105.06	122.99
1	A	209	SER	CA-CB-OG	-12.71	85.67	111.10
1	A	18	HIS	O-C-N	-12.71	105.30	122.97
1	A	50	SER	N-CA-C	-12.71	97.20	113.72
1	C	12	SER	CB-CA-C	12.70	130.54	109.84
1	D	234	THR	CA-CB-CG2	12.70	132.09	110.50
1	F	19	ALA	CA-C-O	-12.70	102.34	120.51
1	B	140	THR	CA-CB-CG2	12.70	132.09	110.50
1	C	163	VAL	CG1-CB-CG2	12.70	138.74	110.80
1	F	153	ARG	NE-CZ-NH1	-12.70	108.80	121.50
1	E	197	THR	CA-C-N	12.69	141.05	120.63
1	E	197	THR	C-N-CA	12.69	141.05	120.63
1	B	203	VAL	CA-CB-CG2	12.68	131.96	110.40
1	C	63	GLN	OE1-CD-NE2	-12.68	109.92	122.60
1	D	214	ARG	O-C-N	-12.68	108.73	122.94
1	D	214	ARG	CB-CA-C	12.68	132.02	109.83
1	F	93	VAL	CA-C-O	-12.68	106.81	120.76
1	C	213	GLY	CA-C-O	-12.68	103.92	121.16
1	B	53	ALA	CA-C-O	-12.67	106.24	120.81
1	A	94	LEU	CB-CA-C	-12.67	89.13	110.16
1	F	89	ASN	CB-CG-OD1	-12.66	95.48	120.80
1	A	123	ASN	N-CA-C	12.65	129.47	109.86
1	B	125	ASN	CA-CB-CG	12.64	125.24	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	131	THR	CB-CA-C	-12.64	81.29	109.10
1	A	77	ILE	O-C-N	-12.62	106.80	122.57
1	A	137	HIS	CB-CG-ND1	12.61	141.62	122.70
1	B	63	GLN	OE1-CD-NE2	-12.61	109.99	122.60
1	A	226	ALA	O-C-N	12.60	137.59	123.48
1	B	63	GLN	N-CA-C	12.59	128.85	110.59
1	B	101	THR	O-C-N	12.59	138.73	123.24
1	D	45	VAL	N-CA-C	-12.59	83.15	109.34
1	B	107	LEU	CA-C-O	-12.59	102.51	120.51
1	A	179	LYS	O-C-N	12.58	139.26	122.15
1	C	205	THR	O-C-N	-12.58	107.92	123.27
1	E	170	ARG	NH1-CZ-NH2	-12.58	102.94	119.30
1	A	89	ASN	CA-C-O	-12.57	106.35	120.43
1	D	53	ALA	N-CA-CB	12.57	129.05	110.06
1	B	220	GLN	CG-CD-OE1	-12.57	95.66	120.80
1	A	171	VAL	CA-C-O	-12.57	105.07	120.78
1	A	2	ASN	CB-CG-OD1	12.56	145.92	120.80
1	B	205	THR	CA-CB-OG1	-12.56	90.77	109.60
1	D	90	TYR	CA-C-O	-12.54	102.57	120.51
1	D	76	THR	CA-CB-CG2	12.54	131.82	110.50
1	C	174	THR	CA-C-O	12.53	133.84	120.55
1	F	210	ARG	NH1-CZ-NH2	12.53	135.58	119.30
1	F	34	SER	CA-CB-OG	-12.52	86.05	111.10
1	B	19	ALA	CB-CA-C	12.52	132.26	110.23
1	E	228	TYR	O-C-N	-12.52	106.54	122.82
1	C	150	SER	CA-C-O	-12.52	103.01	120.16
1	D	131	THR	N-CA-C	12.51	146.03	111.00
1	D	235	THR	CA-CB-OG1	12.51	128.37	109.60
1	B	146	SER	N-CA-CB	-12.51	92.88	111.15
1	D	25	LEU	O-C-N	12.51	139.27	123.01
1	E	147	LEU	O-C-N	-12.50	105.96	122.59
1	B	5	PHE	CZ-CE2-CD2	12.49	142.49	120.00
1	B	67	LEU	CB-CG-CD1	-12.49	73.22	110.70
1	C	114	ASN	CA-CB-CG	12.49	125.09	112.60
1	A	196	LEU	CD1-CG-CD2	12.49	138.28	110.80
1	B	233	TRP	CB-CG-CD2	12.49	144.28	126.80
1	D	96	PRO	CA-C-O	-12.47	101.35	119.18
1	E	62	LEU	CB-CA-C	-12.47	90.94	110.14
1	B	82	GLY	O-C-N	-12.47	106.49	122.70
1	D	34	SER	N-CA-CB	12.46	132.61	110.18
1	C	47	VAL	CB-CA-C	-12.46	90.86	111.29
1	F	89	ASN	N-CA-C	12.46	129.20	108.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	54	GLY	CA-C-N	12.45	144.60	122.45
1	D	54	GLY	C-N-CA	12.45	144.60	122.45
1	C	201	ILE	CA-C-N	12.44	138.36	120.82
1	C	201	ILE	C-N-CA	12.44	138.36	120.82
1	F	229	GLY	CA-C-O	-12.43	109.54	121.60
1	A	210	ARG	NE-CZ-NH1	-12.43	109.07	121.50
1	E	69	VAL	O-C-N	12.43	137.27	122.36
1	D	25	LEU	N-CA-CB	12.42	131.45	110.46
1	F	84	LYS	CB-CA-C	-12.42	92.11	110.24
1	E	137	HIS	CG-CD2-NE2	12.41	119.61	107.20
1	C	197	THR	OG1-CB-CG2	-12.41	84.48	109.30
1	C	83	THR	N-CA-C	-12.39	90.31	109.65
1	C	174	THR	CA-CB-OG1	-12.39	91.01	109.60
1	C	64	SER	CA-C-O	12.39	134.67	119.31
1	B	137	HIS	N-CA-CB	-12.39	96.71	110.71
1	E	158	THR	CA-C-O	-12.39	104.83	120.31
1	A	130	SER	N-CA-C	12.37	128.63	108.34
1	D	107	LEU	CB-CA-C	-12.37	85.80	110.42
1	F	217	PHE	N-CA-CB	-12.36	89.32	110.83
1	C	221	PRO	N-CA-CB	-12.36	90.27	103.25
1	C	216	VAL	CA-C-N	12.36	139.62	122.19
1	C	216	VAL	C-N-CA	12.36	139.62	122.19
1	D	193	MET	N-CA-C	-12.36	90.11	109.76
1	A	5	PHE	O-C-N	-12.35	108.84	123.16
1	B	145	GLN	CB-CG-CD	12.35	133.59	112.60
1	D	57	GLY	CA-C-O	12.34	142.04	120.57
1	F	231	ALA	CA-C-N	12.34	141.17	122.17
1	F	231	ALA	C-N-CA	12.34	141.17	122.17
1	A	91	VAL	CA-C-N	12.32	142.84	122.76
1	A	91	VAL	C-N-CA	12.32	142.84	122.76
1	D	12	SER	CA-CB-OG	12.32	135.74	111.10
1	F	98	ARG	CD-NE-CZ	-12.32	107.16	124.40
1	B	47	VAL	N-CA-CB	12.32	128.77	111.90
1	E	159	ASP	CA-C-N	12.31	145.05	121.54
1	E	159	ASP	C-N-CA	12.31	145.05	121.54
1	D	200	ASN	N-CA-CB	-12.30	91.05	110.49
1	B	37	ASN	CA-CB-CG	-12.30	100.30	112.60
1	E	206	SER	O-C-N	-12.29	107.61	122.48
1	D	43	SER	CA-CB-OG	-12.28	86.53	111.10
1	F	108	TRP	CA-C-O	-12.28	106.82	121.06
1	F	138	PRO	CA-CB-CG	-12.28	81.17	104.50
1	A	225	LEU	CA-C-O	12.28	133.72	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	150	SER	CA-CB-OG	-12.27	86.56	111.10
1	B	165	PHE	N-CA-CB	-12.27	90.11	111.08
1	E	18	HIS	O-C-N	12.26	131.83	121.65
1	F	61	VAL	N-CA-CB	12.26	131.45	111.23
1	F	8	SER	N-CA-CB	-12.25	89.78	110.49
1	B	25	LEU	N-CA-CB	12.25	130.39	110.42
1	B	142	HIS	N-CA-CB	-12.24	91.59	111.06
1	A	210	ARG	NH1-CZ-NH2	12.24	135.21	119.30
1	F	199	GLN	CA-C-N	12.24	144.91	121.54
1	F	199	GLN	C-N-CA	12.24	144.91	121.54
1	D	58	CYS	CA-C-O	-12.23	106.74	120.69
1	F	28	PHE	CA-C-O	12.23	134.60	121.15
1	E	99	THR	CA-C-O	12.22	133.89	120.32
1	C	18	HIS	CA-CB-CG	12.22	126.02	113.80
1	C	143	ALA	N-CA-C	-12.22	88.84	109.24
1	D	149	LEU	N-CA-CB	12.22	131.14	110.49
1	A	78	ARG	NH1-CZ-NH2	-12.21	103.42	119.30
1	C	13	HIS	O-C-N	-12.22	107.22	121.02
1	E	125	ASN	CA-C-N	12.21	143.44	121.94
1	E	125	ASN	C-N-CA	12.21	143.44	121.94
1	B	98	ARG	CA-CB-CG	12.21	138.52	114.10
1	F	15	GLN	CA-CB-CG	12.21	138.52	114.10
1	A	155	SER	CA-C-N	-12.20	106.19	122.42
1	A	155	SER	C-N-CA	-12.20	106.19	122.42
1	E	211	SER	CA-CB-OG	12.20	135.50	111.10
1	F	159	ASP	CA-CB-CG	12.20	124.80	112.60
1	F	68	LEU	CA-C-O	12.20	133.64	120.71
1	A	178	GLY	O-C-N	-12.19	106.85	122.70
1	B	192	ARG	CA-C-O	-12.19	106.64	120.66
1	B	31	THR	OG1-CB-CG2	12.18	133.66	109.30
1	B	105	PRO	N-CD-CG	12.18	121.47	103.20
1	A	198	ASN	OD1-CG-ND2	-12.17	110.43	122.60
1	B	227	ILE	CB-CA-C	12.17	127.35	111.53
1	B	154	LEU	CA-CB-CG	12.16	158.87	116.30
1	D	33	GLN	CA-C-O	-12.16	106.21	121.78
1	F	9	HIS	O-C-N	-12.16	106.42	122.59
1	E	18	HIS	CA-C-N	-12.16	103.02	121.99
1	E	18	HIS	C-N-CA	-12.16	103.02	121.99
1	E	188	GLN	CA-C-O	-12.16	106.76	120.87
1	F	15	GLN	N-CA-C	-12.16	97.22	114.12
1	D	45	VAL	CA-C-N	12.16	143.00	121.97
1	D	45	VAL	C-N-CA	12.16	143.00	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	12	SER	O-C-N	-12.16	107.21	123.01
1	B	29	ARG	N-CA-CB	12.15	130.64	110.59
1	C	186	VAL	CA-C-N	12.14	140.44	122.95
1	C	186	VAL	C-N-CA	12.14	140.44	122.95
1	F	87	ILE	N-CA-C	12.14	134.60	109.34
1	F	142	HIS	CA-CB-CG	-12.13	101.67	113.80
1	B	223	ARG	CA-CB-CG	12.13	138.36	114.10
1	B	106	GLY	CA-C-O	-12.13	99.47	120.57
1	A	44	ASP	N-CA-CB	12.13	130.98	110.49
1	C	205	THR	OG1-CB-CG2	12.12	133.55	109.30
1	A	168	ASP	CA-CB-CG	-12.12	100.48	112.60
1	A	118	VAL	N-CA-CB	-12.12	91.23	111.23
1	E	126	SER	CA-CB-OG	12.12	135.34	111.10
1	B	225	LEU	N-CA-CB	12.12	129.51	110.85
1	E	26	SER	O-C-N	-12.11	106.49	122.59
1	C	106	GLY	CA-C-O	12.10	142.78	122.20
1	C	148	GLN	CA-CB-CG	12.10	138.31	114.10
1	D	32	MET	CA-C-O	12.10	133.57	120.38
1	F	209	SER	CA-C-O	-12.10	106.29	121.78
1	A	1	ASN	CB-CG-ND2	12.10	134.55	116.40
1	C	107	LEU	O-C-N	12.10	136.53	122.25
1	A	193	MET	CA-CB-CG	12.09	138.28	114.10
1	C	118	VAL	CA-C-O	12.08	135.88	120.78
1	C	108	TRP	CA-C-O	-12.08	108.53	121.45
1	A	4	LEU	CA-C-O	-12.07	105.43	120.28
1	D	32	MET	CA-C-N	-12.07	101.44	123.05
1	D	32	MET	C-N-CA	-12.07	101.44	123.05
1	A	15	GLN	CG-CD-OE1	-12.07	96.66	120.80
1	B	56	THR	N-CA-C	12.07	136.50	110.80
1	C	16	THR	CB-CA-C	-12.06	88.08	110.16
1	C	118	VAL	O-C-N	-12.06	107.49	122.57
1	D	183	CYS	N-CA-C	12.06	129.26	110.20
1	B	75	ASN	CA-C-O	-12.06	103.80	119.59
1	C	16	THR	CA-C-N	-12.06	105.99	123.11
1	C	16	THR	C-N-CA	-12.06	105.99	123.11
1	C	102	ILE	CA-C-O	-12.05	107.40	121.98
1	F	94	LEU	N-CA-C	-12.04	88.89	108.52
1	F	142	HIS	ND1-CE1-NE2	-12.04	96.36	108.40
1	D	19	ALA	N-CA-CB	12.04	128.63	110.81
1	C	37	ASN	CA-C-N	12.04	144.53	121.54
1	C	37	ASN	C-N-CA	12.04	144.53	121.54
1	E	169	ASP	N-CA-CB	12.04	130.83	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	130	SER	CA-C-O	-12.03	107.49	120.24
1	A	222	ASP	CB-CG-OD1	-12.03	90.74	118.40
1	C	138	PRO	CB-CA-C	-12.03	91.72	111.56
1	C	47	VAL	CA-C-O	-12.02	105.76	120.78
1	E	47	VAL	CB-CA-C	-12.00	96.39	111.87
1	C	126	SER	CA-C-O	-12.00	107.40	121.44
1	F	98	ARG	NE-CZ-NH2	-12.00	108.40	119.20
1	E	161	ASN	OD1-CG-ND2	12.00	134.60	122.60
1	D	33	GLN	N-CA-C	11.99	127.77	110.14
1	D	158	THR	O-C-N	-11.98	104.93	122.43
1	E	26	SER	CA-CB-OG	11.98	135.06	111.10
1	E	138	PRO	N-CD-CG	11.98	121.17	103.20
1	C	97	ASP	CB-CG-OD2	11.98	145.95	118.40
1	B	223	ARG	CD-NE-CZ	-11.97	107.64	124.40
1	E	50	SER	N-CA-C	-11.97	98.26	111.07
1	C	132	GLN	CG-CD-NE2	11.96	134.34	116.40
1	E	167	ARG	O-C-N	-11.96	106.68	122.59
1	A	159	ASP	O-C-N	-11.96	104.69	122.39
1	C	212	ALA	CB-CA-C	-11.96	86.63	110.42
1	C	158	THR	N-CA-CB	11.95	126.75	110.98
1	C	148	GLN	N-CA-CB	-11.95	91.30	110.77
1	B	51	ASN	CA-CB-CG	11.94	124.54	112.60
1	E	87	ILE	N-CA-C	11.95	134.19	109.34
1	E	189	PRO	CB-CA-C	11.94	131.27	111.56
1	E	85	GLY	N-CA-C	-11.93	92.25	112.06
1	B	86	SER	CA-CB-OG	11.93	134.96	111.10
1	F	174	THR	N-CA-C	-11.93	98.93	114.31
1	C	27	SER	CA-C-O	11.92	137.56	120.51
1	E	216	VAL	O-C-N	-11.92	109.41	123.00
1	C	184	ARG	NH1-CZ-NH2	11.91	134.79	119.30
1	C	20	ALA	CA-C-O	11.91	135.39	121.34
1	A	19	ALA	O-C-N	-11.89	106.77	122.59
1	B	22	SER	CA-CB-OG	-11.89	87.31	111.10
1	D	184	ARG	CD-NE-CZ	-11.89	107.75	124.40
1	D	70	ILE	CB-CG1-CD1	-11.89	88.83	113.80
1	C	100	VAL	CA-C-O	-11.88	109.79	120.96
1	D	59	ARG	O-C-N	-11.88	107.71	123.15
1	B	25	LEU	CA-C-N	11.88	144.22	121.54
1	B	25	LEU	C-N-CA	11.88	144.22	121.54
1	C	193	MET	CA-C-N	11.87	141.02	122.74
1	C	193	MET	C-N-CA	11.87	141.02	122.74
1	E	47	VAL	N-CA-CB	11.87	124.06	110.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	149	LEU	CB-CA-C	-11.86	91.58	111.26
1	C	227	ILE	CA-CB-CG2	-11.86	90.34	110.50
1	B	99	THR	CA-C-N	-11.85	108.00	122.93
1	B	99	THR	C-N-CA	-11.85	108.00	122.93
1	E	158	THR	CA-CB-CG2	-11.85	90.36	110.50
1	F	63	GLN	CB-CG-CD	11.85	132.74	112.60
1	A	9	HIS	CB-CA-C	-11.84	86.85	110.42
1	B	31	THR	CA-CB-CG2	11.84	130.62	110.50
1	D	20	ALA	N-CA-C	-11.84	95.74	110.65
1	C	13	HIS	CG-CD2-NE2	11.83	119.03	107.20
1	A	114	ASN	CB-CG-OD1	-11.83	97.14	120.80
1	F	102	ILE	N-CA-C	11.82	125.67	108.53
1	C	27	SER	O-C-N	-11.82	106.87	122.59
1	C	45	VAL	CA-CB-CG2	11.82	130.50	110.40
1	A	226	ALA	CA-C-N	-11.82	106.75	123.06
1	A	226	ALA	C-N-CA	-11.82	106.75	123.06
1	B	148	GLN	CB-CG-CD	11.82	132.69	112.60
1	D	212	ALA	N-CA-CB	-11.82	91.61	109.69
1	B	212	ALA	O-C-N	11.81	136.95	123.01
1	F	42	ASP	CA-CB-CG	11.81	124.41	112.60
1	F	127	ILE	N-CA-CB	11.80	130.70	111.23
1	C	112	THR	CA-CB-CG2	11.80	130.56	110.50
1	F	28	PHE	N-CA-CB	-11.79	90.94	109.69
1	A	20	ALA	N-CA-CB	11.79	130.42	110.49
1	B	41	PHE	N-CA-C	11.79	126.47	110.55
1	F	34	SER	CA-C-N	11.79	141.51	122.65
1	F	34	SER	C-N-CA	11.79	141.51	122.65
1	B	163	VAL	CA-C-O	11.78	135.51	120.78
1	A	215	TYR	CB-CG-CD2	11.78	138.47	120.80
1	D	60	ALA	N-CA-CB	11.78	127.04	110.67
1	A	139	GLN	CB-CA-C	11.78	130.01	109.75
1	E	147	LEU	N-CA-C	11.77	135.88	110.80
1	D	152	TYR	OH-CZ-CE2	-11.77	84.59	119.90
1	D	149	LEU	CA-C-N	-11.77	93.08	121.80
1	D	149	LEU	C-N-CA	-11.77	93.08	121.80
1	D	177	ALA	O-C-N	11.76	138.23	122.59
1	E	155	SER	N-CA-C	11.76	126.01	108.14
1	C	136	ASN	CB-CA-C	-11.75	87.77	110.10
1	D	112	THR	N-CA-C	11.75	129.59	113.37
1	F	74	GLN	N-CA-C	11.75	127.77	112.26
1	E	173	SER	O-C-N	-11.75	111.11	123.56
1	D	75	ASN	CB-CG-ND2	-11.74	98.78	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	181	THR	N-CA-C	-11.74	85.78	110.80
1	A	81	SER	CA-C-O	-11.74	105.05	119.61
1	F	188	GLN	CA-CB-CG	11.74	137.59	114.10
1	B	50	SER	CB-CA-C	11.74	134.85	110.31
1	E	173	SER	CA-CB-OG	-11.74	87.62	111.10
1	F	209	SER	N-CA-CB	-11.74	93.21	110.70
1	F	125	ASN	CB-CG-OD1	-11.73	97.33	120.80
1	A	224	ASN	CA-CB-CG	-11.73	100.87	112.60
1	E	165	PHE	CA-C-O	-11.73	107.42	120.32
1	D	69	VAL	CA-C-O	-11.72	109.24	121.67
1	E	4	LEU	CA-C-O	-11.72	107.74	121.46
1	C	10	GLU	CA-C-O	-11.72	103.75	120.51
1	D	108	TRP	CZ3-CH2-CZ2	-11.71	106.27	121.50
1	B	36	CYS	CA-C-N	-11.71	107.19	122.77
1	B	36	CYS	C-N-CA	-11.71	107.19	122.77
1	B	158	THR	CA-C-O	-11.71	108.70	121.00
1	C	9	HIS	CB-CG-CD2	11.71	146.43	131.20
1	A	131	THR	OG1-CB-CG2	-11.70	85.89	109.30
1	F	185	ALA	CA-C-N	-11.70	107.14	123.17
1	F	185	ALA	C-N-CA	-11.70	107.14	123.17
1	C	90	TYR	O-C-N	11.69	139.65	122.94
1	C	183	CYS	N-CA-CB	-11.69	94.37	110.38
1	D	109	ASP	CA-CB-CG	-11.69	100.91	112.60
1	D	154	LEU	N-CA-CB	11.68	130.20	110.46
1	F	9	HIS	CB-CA-C	-11.68	87.17	110.42
1	E	227	ILE	O-C-N	-11.68	111.70	123.03
1	F	33	GLN	CA-C-O	-11.68	106.84	121.55
1	B	197	THR	N-CA-C	11.68	127.20	107.93
1	F	175	ASN	OD1-CG-ND2	11.68	134.28	122.60
1	C	179	LYS	N-CA-C	-11.67	99.25	114.31
1	D	17	LEU	CA-C-O	-11.66	107.86	120.80
1	C	225	LEU	CA-C-O	-11.65	107.68	120.38
1	F	16	THR	CA-C-N	-11.65	107.28	122.77
1	F	16	THR	C-N-CA	-11.65	107.28	122.77
1	F	210	ARG	NE-CZ-NH1	-11.64	109.86	121.50
1	E	150	SER	CA-CB-OG	-11.64	87.82	111.10
1	B	79	TRP	O-C-N	11.64	136.32	123.52
1	A	95	GLN	CG-CD-OE1	11.63	144.06	120.80
1	B	110	SER	CA-CB-OG	-11.63	87.84	111.10
1	B	35	ASP	N-CA-C	-11.63	96.17	113.61
1	B	5	PHE	N-CA-CB	-11.62	92.78	110.45
1	B	223	ARG	NE-CZ-NH1	-11.62	109.88	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	2	ASN	O-C-N	-11.61	109.43	122.09
1	D	61	VAL	N-CA-C	11.61	133.49	109.34
1	F	129	TYR	O-C-N	-11.59	107.17	122.59
1	A	145	GLN	CG-CD-NE2	11.59	133.78	116.40
1	D	125	ASN	N-CA-C	11.59	135.48	110.80
1	E	37	ASN	CB-CG-ND2	-11.59	99.02	116.40
1	B	39	VAL	CA-C-N	11.58	139.91	122.77
1	B	39	VAL	C-N-CA	11.58	139.91	122.77
1	A	65	ASP	CB-CA-C	11.58	133.79	110.75
1	A	118	VAL	O-C-N	-11.57	108.10	122.57
1	E	31	THR	O-C-N	-11.57	109.74	123.16
1	A	19	ALA	N-CA-CB	-11.56	90.95	110.49
1	F	140	THR	CA-CB-CG2	11.56	130.16	110.50
1	D	219	LEU	CB-CG-CD2	11.55	145.37	110.70
1	E	102	ILE	CA-C-O	-11.55	107.55	120.72
1	F	99	THR	N-CA-C	-11.55	90.07	108.90
1	C	160	CYS	CA-C-O	-11.55	104.00	120.51
1	E	197	THR	CA-CB-OG1	-11.54	92.29	109.60
1	D	29	ARG	NE-CZ-NH1	-11.54	109.96	121.50
1	A	102	ILE	CA-C-O	-11.54	108.02	120.59
1	A	9	HIS	CA-CB-CG	11.53	125.33	113.80
1	C	184	ARG	NE-CZ-NH1	-11.53	109.97	121.50
1	D	156	MET	CB-CA-C	-11.53	91.63	111.23
1	E	103	TYR	CA-CB-CG	11.53	134.66	113.90
1	F	72	THR	O-C-N	11.53	136.17	122.68
1	E	29	ARG	NE-CZ-NH1	11.52	133.02	121.50
1	A	82	GLY	CA-C-N	-11.52	102.65	122.92
1	A	82	GLY	C-N-CA	-11.52	102.65	122.92
1	C	145	GLN	O-C-N	-11.52	107.56	123.34
1	F	234	THR	CA-CB-OG1	11.51	126.87	109.60
1	F	153	ARG	CA-CB-CG	11.51	137.11	114.10
1	C	81	SER	N-CA-C	-11.51	98.76	113.72
1	E	199	GLN	CB-CA-C	-11.50	92.51	111.02
1	B	226	ALA	CA-C-N	-11.49	107.01	123.10
1	B	226	ALA	C-N-CA	-11.49	107.01	123.10
1	C	184	ARG	CA-C-O	11.49	133.74	121.45
1	F	22	SER	O-C-N	-11.49	112.46	123.26
1	A	142	HIS	CG-CD2-NE2	11.48	118.68	107.20
1	C	43	SER	CA-CB-OG	11.48	134.06	111.10
1	B	138	PRO	CA-N-CD	-11.48	95.93	112.00
1	D	158	THR	OG1-CB-CG2	11.48	132.25	109.30
1	D	190	ASN	N-CA-CB	-11.47	94.43	110.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	21	GLN	OE1-CD-NE2	11.46	134.06	122.60
1	C	89	ASN	CA-C-O	-11.46	108.16	121.11
1	A	63	GLN	CA-C-O	-11.45	105.62	120.84
1	C	221	PRO	O-C-N	-11.44	107.19	122.64
1	D	222	ASP	CB-CA-C	-11.44	97.03	111.22
1	A	233	TRP	CZ3-CH2-CZ2	-11.43	106.64	121.50
1	B	128	LEU	CA-C-O	11.42	135.07	121.94
1	E	17	LEU	O-C-N	-11.42	110.37	123.27
1	C	217	PHE	CA-C-O	-11.41	107.64	120.54
1	A	101	THR	CA-C-O	-11.41	109.01	121.33
1	F	54	GLY	CA-C-O	11.41	140.42	120.57
1	B	108	TRP	CB-CA-C	11.40	129.17	109.80
1	E	72	THR	CA-C-O	11.40	135.61	121.82
1	E	103	TYR	CA-C-O	-11.39	108.52	121.40
1	C	95	GLN	CG-CD-OE1	11.39	143.59	120.80
1	F	52	THR	CA-C-N	11.39	139.44	121.66
1	F	52	THR	C-N-CA	11.39	139.44	121.66
1	A	87	ILE	CB-CA-C	11.39	129.97	111.29
1	B	29	ARG	CD-NE-CZ	11.39	140.35	124.40
1	D	73	ALA	O-C-N	-11.39	107.28	122.43
1	D	170	ARG	NH1-CZ-NH2	-11.39	104.50	119.30
1	F	24	GLU	CA-C-O	-11.39	106.99	120.43
1	F	170	ARG	N-CA-C	11.39	127.07	108.96
1	F	202	ALA	O-C-N	-11.39	108.74	122.63
1	B	108	TRP	CA-C-N	11.38	142.36	122.67
1	B	108	TRP	C-N-CA	11.38	142.36	122.67
1	F	5	PHE	CA-CB-CG	11.38	125.18	113.80
1	C	172	TRP	CA-C-O	-11.38	107.57	120.66
1	C	12	SER	CA-C-O	-11.38	107.72	120.69
1	E	131	THR	CB-CA-C	-11.38	84.07	109.10
1	A	174	THR	CA-CB-CG2	-11.37	91.17	110.50
1	C	100	VAL	N-CA-C	-11.37	93.50	108.06
1	F	24	GLU	N-CA-CB	-11.37	90.87	110.99
1	B	36	CYS	CA-C-O	-11.36	104.26	120.51
1	E	138	PRO	CB-CA-C	-11.36	92.81	111.56
1	D	69	VAL	CA-CB-CG1	11.36	129.71	110.40
1	B	202	ALA	N-CA-C	-11.36	91.87	107.88
1	D	91	VAL	CA-C-N	11.35	138.90	121.99
1	D	91	VAL	C-N-CA	11.35	138.90	121.99
1	A	171	VAL	CA-CB-CG2	11.35	129.69	110.40
1	D	177	ALA	N-CA-CB	11.34	129.66	110.49
1	D	21	GLN	OE1-CD-NE2	-11.34	111.26	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	128	LEU	CB-CA-C	11.34	132.98	110.42
1	F	220	GLN	CG-CD-NE2	11.34	133.41	116.40
1	D	176	THR	O-C-N	-11.33	109.67	122.92
1	E	16	THR	CA-C-N	-11.33	107.09	122.72
1	E	16	THR	C-N-CA	-11.33	107.09	122.72
1	D	192	ARG	CB-CA-C	11.33	128.37	109.80
1	C	139	GLN	OE1-CD-NE2	-11.32	111.28	122.60
1	C	10	GLU	CB-CG-CD	11.32	131.85	112.60
1	F	105	PRO	N-CD-CG	11.32	117.39	103.80
1	B	59	ARG	NE-CZ-NH2	-11.32	109.01	119.20
1	B	201	ILE	CA-C-N	11.31	142.58	122.45
1	B	201	ILE	C-N-CA	11.31	142.58	122.45
1	D	89	ASN	N-CA-CB	-11.31	91.38	110.49
1	B	208	ASN	OD1-CG-ND2	11.30	133.90	122.60
1	B	59	ARG	NH1-CZ-NH2	11.30	133.99	119.30
1	E	151	PRO	CA-C-N	11.30	140.93	122.29
1	E	151	PRO	C-N-CA	11.30	140.93	122.29
1	F	98	ARG	CB-CA-C	11.29	127.77	111.73
1	E	89	ASN	OD1-CG-ND2	11.29	133.89	122.60
1	C	128	LEU	CB-CG-CD2	11.29	144.56	110.70
1	C	199	GLN	O-C-N	-11.28	110.69	122.64
1	E	208	ASN	O-C-N	11.27	136.26	121.83
1	F	195	VAL	N-CA-CB	11.27	129.83	111.23
1	E	165	PHE	N-CA-C	11.27	126.89	108.52
1	D	35	ASP	CA-C-N	11.27	144.88	124.82
1	D	35	ASP	C-N-CA	11.27	144.88	124.82
1	A	98	ARG	CG-CD-NE	11.26	136.77	112.00
1	F	188	GLN	OE1-CD-NE2	-11.26	111.34	122.60
1	A	33	GLN	CG-CD-NE2	-11.26	99.52	116.40
1	A	217	PHE	CA-C-N	11.25	138.58	123.06
1	A	217	PHE	C-N-CA	11.25	138.58	123.06
1	C	198	ASN	CB-CG-OD1	-11.25	98.31	120.80
1	E	105	PRO	CA-CB-CG	-11.25	83.13	104.50
1	A	137	HIS	CG-CD2-NE2	-11.24	95.96	107.20
1	A	79	TRP	CA-C-O	-11.23	104.44	120.51
1	D	83	THR	CA-CB-CG2	-11.23	91.41	110.50
1	A	191	GLY	CA-C-O	11.23	140.10	120.57
1	D	137	HIS	CB-CG-ND1	-11.22	105.86	122.70
1	F	155	SER	O-C-N	-11.22	109.82	122.84
1	A	219	LEU	N-CA-C	-11.22	86.88	107.75
1	A	114	ASN	OD1-CG-ND2	11.21	133.81	122.60
1	B	168	ASP	CB-CA-C	11.21	132.74	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	30	PHE	CA-C-N	11.21	140.19	122.59
1	B	30	PHE	C-N-CA	11.21	140.19	122.59
1	A	36	CYS	CA-C-O	-11.20	107.80	119.78
1	B	9	HIS	CE1-NE2-CD2	-11.20	97.80	109.00
1	A	151	PRO	N-CD-CG	-11.20	86.41	103.20
1	D	22	SER	CB-CA-C	-11.19	89.80	110.62
1	D	48	TRP	CA-C-O	-11.19	108.58	120.89
1	D	201	ILE	CA-C-O	-11.19	107.86	120.84
1	A	72	THR	CA-CB-CG2	11.19	129.52	110.50
1	F	124	GLY	O-C-N	-11.19	105.10	123.00
1	C	108	TRP	CA-CB-CG	11.18	134.85	113.60
1	A	128	LEU	CA-C-N	11.18	142.90	121.54
1	A	128	LEU	C-N-CA	11.18	142.90	121.54
1	D	128	LEU	N-CA-CB	11.18	129.96	110.39
1	A	13	HIS	CB-CG-ND1	11.18	139.47	122.70
1	C	173	SER	CA-CB-OG	-11.18	88.74	111.10
1	F	234	THR	CA-C-N	11.18	141.82	121.70
1	F	234	THR	C-N-CA	11.18	141.82	121.70
1	F	28	PHE	CB-CA-C	11.18	127.69	109.70
1	B	28	PHE	CB-CG-CD1	11.17	139.69	120.70
1	C	2	ASN	CA-C-O	11.17	131.41	118.79
1	C	210	ARG	NE-CZ-NH1	11.17	132.67	121.50
1	F	95	GLN	CA-C-O	-11.16	109.25	120.97
1	C	150	SER	O-C-N	11.14	134.14	121.32
1	D	98	ARG	CD-NE-CZ	-11.14	108.80	124.40
1	F	6	GLY	O-C-N	-11.13	108.23	122.70
1	B	158	THR	CA-C-N	11.13	142.79	121.54
1	B	158	THR	C-N-CA	11.13	142.79	121.54
1	F	67	LEU	CA-C-N	-11.12	106.80	122.93
1	F	67	LEU	C-N-CA	-11.12	106.80	122.93
1	B	89	ASN	N-CA-C	11.12	126.31	108.41
1	E	31	THR	CA-C-O	11.11	133.69	120.92
1	C	41	PHE	CA-CB-CG	-11.10	102.70	113.80
1	C	41	PHE	CA-C-O	-11.10	108.03	121.36
1	D	228	TYR	CA-C-N	11.10	136.24	122.03
1	D	228	TYR	C-N-CA	11.10	136.24	122.03
1	A	74	GLN	N-CA-CB	-11.09	95.45	111.54
1	A	70	ILE	CA-C-O	11.09	134.17	120.97
1	A	226	ALA	CA-C-O	-11.09	108.69	120.89
1	F	49	ALA	CA-C-O	-11.09	109.36	121.23
1	D	218	VAL	CA-C-O	-11.09	108.34	120.43
1	F	190	ASN	CA-C-O	11.09	136.37	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	222	ASP	CA-C-N	-11.08	106.22	122.07
1	A	222	ASP	C-N-CA	-11.08	106.22	122.07
1	D	155	SER	CA-CB-OG	-11.07	88.96	111.10
1	F	131	THR	CA-CB-OG1	-11.07	93.00	109.60
1	E	63	GLN	CG-CD-NE2	-11.06	99.81	116.40
1	F	16	THR	OG1-CB-CG2	11.06	131.42	109.30
1	C	42	ASP	N-CA-C	-11.06	88.33	108.02
1	F	32	MET	CG-SD-CE	11.06	125.22	100.90
1	A	75	ASN	CB-CG-OD1	-11.05	98.70	120.80
1	A	86	SER	CA-C-N	-11.05	102.08	121.97
1	A	86	SER	C-N-CA	-11.05	102.08	121.97
1	D	52	THR	N-CA-C	-11.05	100.12	112.72
1	C	89	ASN	O-C-N	11.05	137.55	123.19
1	D	152	TYR	CB-CG-CD1	11.05	137.37	120.80
1	A	137	HIS	N-CA-CB	-11.04	90.71	110.37
1	C	2	ASN	CB-CG-OD1	-11.04	98.71	120.80
1	B	185	ALA	CA-C-N	11.04	139.59	122.25
1	B	185	ALA	C-N-CA	11.04	139.59	122.25
1	F	86	SER	O-C-N	11.04	133.06	120.58
1	D	43	SER	CB-CA-C	-11.04	88.45	110.42
1	B	105	PRO	CA-C-N	11.04	143.04	121.41
1	B	105	PRO	C-N-CA	11.04	143.04	121.41
1	D	99	THR	CB-CA-C	11.04	127.74	109.53
1	D	22	SER	O-C-N	11.03	135.23	123.42
1	F	39	VAL	O-C-N	11.03	134.81	123.00
1	B	164	LEU	CA-C-O	-11.03	108.79	120.70
1	A	208	ASN	CA-C-N	-11.02	104.58	122.11
1	A	208	ASN	C-N-CA	-11.02	104.58	122.11
1	F	151	PRO	CB-CA-C	11.02	127.77	111.68
1	C	123	ASN	OD1-CG-ND2	-11.02	111.58	122.60
1	A	230	GLY	N-CA-C	-11.01	87.09	113.18
1	F	157	GLU	O-C-N	11.01	135.47	123.03
1	F	188	GLN	CG-CD-OE1	11.00	142.80	120.80
1	B	5	PHE	CB-CA-C	10.99	131.64	109.76
1	D	142	HIS	O-C-N	-10.99	106.75	122.36
1	E	175	ASN	CA-C-O	10.99	135.77	122.03
1	B	28	PHE	N-CA-C	10.99	127.45	110.42
1	B	81	SER	N-CA-CB	-10.99	91.92	110.49
1	E	19	ALA	CB-CA-C	10.98	128.64	109.75
1	C	61	VAL	N-CA-CB	10.98	129.35	111.23
1	E	48	TRP	CA-C-O	-10.98	109.21	121.51
1	C	87	ILE	O-C-N	10.97	136.29	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	157	GLU	N-CA-CB	-10.97	93.74	110.42
1	E	198	ASN	CA-CB-CG	10.97	123.57	112.60
1	F	223	ARG	CA-C-N	10.97	142.49	121.54
1	F	223	ARG	C-N-CA	10.97	142.49	121.54
1	A	222	ASP	N-CA-CB	10.96	127.65	111.43
1	F	60	ALA	N-CA-CB	10.96	126.59	110.26
1	E	73	ALA	CA-C-N	10.96	142.48	121.54
1	E	73	ALA	C-N-CA	10.96	142.48	121.54
1	F	125	ASN	CB-CG-ND2	10.96	132.84	116.40
1	F	10	GLU	N-CA-CB	-10.96	96.52	110.98
1	F	176	THR	CA-C-O	10.95	139.42	120.80
1	F	214	ARG	CA-C-N	10.95	142.64	123.03
1	F	214	ARG	C-N-CA	10.95	142.64	123.03
1	C	161	ASN	OD1-CG-ND2	-10.95	111.65	122.60
1	B	15	GLN	CG-CD-NE2	10.95	132.82	116.40
1	B	68	LEU	CB-CA-C	10.95	128.37	109.65
1	B	69	VAL	N-CA-CB	10.95	129.39	111.44
1	C	132	GLN	O-C-N	-10.95	92.60	121.50
1	A	69	VAL	O-C-N	10.94	135.02	123.20
1	B	64	SER	CA-CB-OG	-10.94	89.22	111.10
1	B	142	HIS	ND1-CG-CD2	-10.94	95.16	106.10
1	A	214	ARG	N-CA-CB	-10.94	90.54	111.11
1	C	100	VAL	CA-CB-CG1	10.94	128.99	110.40
1	D	71	LEU	N-CA-CB	-10.94	91.80	110.83
1	F	145	GLN	N-CA-C	10.94	125.22	110.35
1	F	35	ASP	N-CA-CB	10.93	126.52	110.56
1	B	183	CYS	CA-CB-SG	10.93	139.54	114.40
1	B	15	GLN	CG-CD-OE1	-10.93	98.94	120.80
1	C	43	SER	O-C-N	-10.93	108.05	122.59
1	C	148	GLN	CB-CG-CD	10.93	131.18	112.60
1	E	2	ASN	OD1-CG-ND2	-10.93	111.67	122.60
1	D	112	THR	CA-C-N	10.93	141.60	121.06
1	D	112	THR	C-N-CA	10.93	141.60	121.06
1	F	143	ALA	N-CA-C	-10.91	94.38	110.52
1	C	20	ALA	CB-CA-C	10.91	130.11	111.46
1	D	101	THR	CA-C-O	-10.90	109.60	121.05
1	B	221	PRO	CA-C-N	10.89	140.20	121.14
1	B	221	PRO	C-N-CA	10.89	140.20	121.14
1	C	214	ARG	CA-C-O	10.89	132.63	120.43
1	D	99	THR	OG1-CB-CG2	-10.89	87.52	109.30
1	F	18	HIS	ND1-CE1-NE2	10.88	119.28	108.40
1	F	218	VAL	CA-C-O	-10.88	109.00	120.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	57	GLY	O-C-N	-10.87	108.56	122.70
1	A	11	GLY	CA-C-N	-10.87	108.00	123.00
1	A	11	GLY	C-N-CA	-10.87	108.00	123.00
1	A	114	ASN	CB-CA-C	-10.87	94.43	111.17
1	F	95	GLN	OE1-CD-NE2	-10.87	111.73	122.60
1	A	25	LEU	CD1-CG-CD2	10.85	134.68	110.80
1	C	61	VAL	N-CA-C	10.85	131.91	109.34
1	A	9	HIS	CG-CD2-NE2	10.85	118.05	107.20
1	C	73	ALA	CB-CA-C	10.85	132.01	110.42
1	C	105	PRO	CA-C-N	-10.85	109.79	122.16
1	C	105	PRO	C-N-CA	-10.85	109.79	122.16
1	B	192	ARG	NE-CZ-NH2	10.84	128.96	119.20
1	E	167	ARG	CG-CD-NE	10.84	135.84	112.00
1	F	85	GLY	CA-C-N	10.84	134.65	121.64
1	F	85	GLY	C-N-CA	10.84	134.65	121.64
1	B	35	ASP	CA-C-O	10.83	131.96	119.18
1	E	127	ILE	N-CA-CB	-10.83	97.81	111.46
1	C	112	THR	CA-C-O	10.83	130.15	119.97
1	D	226	ALA	CB-CA-C	10.83	130.79	109.35
1	B	37	ASN	OD1-CG-ND2	-10.82	111.78	122.60
1	E	233	TRP	O-C-N	10.82	135.81	123.48
1	E	7	LEU	CA-C-O	-10.81	105.05	120.51
1	C	102	ILE	CA-CB-CG2	10.81	128.88	110.50
1	B	125	ASN	CB-CG-OD1	-10.80	99.20	120.80
1	C	153	ARG	CA-C-N	-10.80	108.80	122.84
1	C	153	ARG	C-N-CA	-10.80	108.80	122.84
1	C	196	LEU	CA-C-N	10.79	141.75	122.64
1	C	196	LEU	C-N-CA	10.79	141.75	122.64
1	D	184	ARG	NH1-CZ-NH2	10.79	133.33	119.30
1	E	198	ASN	CB-CG-ND2	-10.79	100.21	116.40
1	A	137	HIS	N-CA-C	10.79	133.66	109.81
1	A	176	THR	CA-CB-OG1	10.78	125.78	109.60
1	B	5	PHE	O-C-N	-10.78	110.56	122.85
1	A	119	VAL	N-CA-C	10.78	131.76	109.34
1	D	1	ASN	O-C-N	-10.78	105.76	123.00
1	C	198	ASN	CA-CB-CG	-10.77	101.83	112.60
1	D	196	LEU	CA-CB-CG	10.77	154.00	116.30
1	B	81	SER	CA-C-O	-10.77	105.11	120.51
1	E	157	GLU	CG-CD-OE2	-10.77	93.64	118.40
1	B	226	ALA	N-CA-CB	10.76	128.68	110.49
1	C	218	VAL	CA-CB-CG2	10.76	128.69	110.40
1	D	226	ALA	CA-C-N	-10.76	109.37	122.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	226	ALA	C-N-CA	-10.76	109.37	122.93
1	F	194	ASP	N-CA-C	10.76	133.72	110.80
1	D	78	ARG	CB-CG-CD	-10.75	86.57	111.30
1	D	21	GLN	N-CA-CB	-10.75	91.89	111.13
1	B	227	ILE	CB-CG1-CD1	-10.75	91.23	113.80
1	B	55	ALA	CA-C-N	10.74	142.06	121.54
1	B	55	ALA	C-N-CA	10.74	142.06	121.54
1	B	126	SER	CA-C-O	10.74	134.33	121.87
1	C	77	ILE	CB-CG1-CD1	10.74	136.36	113.80
1	F	30	PHE	CA-C-O	10.74	130.94	120.09
1	D	9	HIS	CB-CG-CD2	10.74	145.16	131.20
1	D	63	GLN	CA-CB-CG	-10.74	92.63	114.10
1	A	31	THR	CA-C-N	10.73	139.81	122.32
1	A	31	THR	C-N-CA	10.73	139.81	122.32
1	E	42	ASP	CA-C-O	-10.73	108.74	120.33
1	B	175	ASN	CA-C-N	10.73	142.03	121.54
1	B	175	ASN	C-N-CA	10.73	142.03	121.54
1	A	40	LEU	CB-CG-CD1	10.72	142.86	110.70
1	E	214	ARG	CA-C-O	10.72	132.71	120.60
1	A	121	ALA	CA-C-N	10.72	142.01	121.54
1	A	121	ALA	C-N-CA	10.72	142.01	121.54
1	F	81	SER	CA-CB-OG	10.72	132.54	111.10
1	C	181	THR	CA-CB-OG1	-10.72	93.53	109.60
1	E	19	ALA	O-C-N	-10.71	110.55	122.23
1	D	87	ILE	N-CA-C	10.71	131.62	109.34
1	A	195	VAL	CB-CA-C	10.71	123.47	110.73
1	F	83	THR	CA-CB-OG1	10.71	125.66	109.60
1	A	148	GLN	OE1-CD-NE2	-10.71	111.89	122.60
1	D	181	THR	CB-CA-C	10.71	131.72	110.42
1	A	118	VAL	CA-C-N	10.70	141.24	121.97
1	A	118	VAL	C-N-CA	10.70	141.24	121.97
1	B	5	PHE	CA-C-O	10.70	134.44	121.81
1	C	190	ASN	CB-CG-ND2	10.70	132.45	116.40
1	A	175	ASN	N-CA-C	-10.69	97.66	111.02
1	F	65	ASP	CA-C-N	10.68	141.95	120.80
1	F	65	ASP	C-N-CA	10.68	141.95	120.80
1	A	188	GLN	N-CA-C	10.68	133.41	109.81
1	C	105	PRO	CA-CB-CG	-10.68	84.21	104.50
1	D	136	ASN	CA-C-O	-10.68	102.65	120.80
1	A	48	TRP	CG-CD1-NE1	10.68	124.08	110.20
1	B	148	GLN	CA-C-O	-10.68	109.03	120.99
1	D	148	GLN	CA-CB-CG	10.68	135.45	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	169	ASP	CA-C-O	10.67	135.77	120.51
1	A	83	THR	OG1-CB-CG2	10.67	130.64	109.30
1	A	214	ARG	CA-C-O	10.67	137.98	120.81
1	B	80	SER	CB-CA-C	-10.67	94.67	110.24
1	F	3	ILE	CB-CA-C	-10.67	94.60	110.81
1	B	101	THR	CA-CB-CG2	10.66	128.63	110.50
1	B	189	PRO	CA-C-N	10.66	141.90	121.54
1	B	189	PRO	C-N-CA	10.66	141.90	121.54
1	A	65	ASP	OD1-CG-OD2	-10.66	97.32	122.90
1	B	61	VAL	N-CA-C	10.65	131.49	109.34
1	C	101	THR	N-CA-CB	-10.64	93.04	110.71
1	C	180	GLY	CA-C-O	-10.64	111.30	121.41
1	B	164	LEU	CB-CA-C	-10.64	89.05	109.37
1	C	201	ILE	CA-C-O	10.64	130.78	120.25
1	D	110	SER	CA-CB-OG	-10.64	89.82	111.10
1	A	159	ASP	N-CA-C	-10.63	100.33	113.20
1	B	228	TYR	N-CA-CB	10.63	125.65	110.44
1	A	233	TRP	O-C-N	-10.63	108.45	122.59
1	F	67	LEU	CB-CG-CD1	-10.63	78.80	110.70
1	D	125	ASN	CA-C-O	10.63	135.71	120.51
1	E	70	ILE	N-CA-CB	-10.63	98.76	111.83
1	E	205	THR	N-CA-C	10.63	124.27	109.18
1	F	8	SER	CA-CB-OG	10.62	132.35	111.10
1	A	127	ILE	O-C-N	-10.62	112.31	123.14
1	A	204	TRP	CA-C-O	10.62	133.60	120.54
1	B	194	ASP	OD1-CG-OD2	10.62	148.38	122.90
1	D	230	GLY	O-C-N	-10.62	108.90	122.70
1	C	29	ARG	CB-CG-CD	10.61	135.69	111.30
1	F	142	HIS	CB-CG-CD2	10.61	144.99	131.20
1	F	196	LEU	N-CA-C	10.61	133.39	110.80
1	A	152	TYR	CA-C-O	-10.60	109.35	120.80
1	A	137	HIS	CB-CA-C	-10.60	89.29	110.17
1	A	149	LEU	CA-C-N	-10.60	95.94	121.80
1	A	149	LEU	C-N-CA	-10.60	95.94	121.80
1	A	184	ARG	CB-CG-CD	10.60	135.68	111.30
1	E	105	PRO	CA-C-N	-10.60	110.89	122.55
1	E	105	PRO	C-N-CA	-10.60	110.89	122.55
1	C	41	PHE	CB-CA-C	-10.60	91.39	109.51
1	E	109	ASP	O-C-N	10.60	135.99	123.17
1	F	154	LEU	N-CA-CB	10.60	126.17	110.49
1	C	18	HIS	CE1-NE2-CD2	-10.59	98.41	109.00
1	D	75	ASN	CA-C-N	-10.59	108.38	123.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	75	ASN	C-N-CA	-10.59	108.38	123.00
1	D	195	VAL	O-C-N	-10.59	110.61	122.36
1	D	2	ASN	CB-CA-C	-10.58	93.99	111.02
1	C	13	HIS	CE1-NE2-CD2	-10.58	98.42	109.00
1	D	193	MET	CA-CB-CG	10.58	135.25	114.10
1	E	61	VAL	CA-CB-CG2	-10.58	92.42	110.40
1	B	150	SER	CA-C-N	10.57	130.32	119.64
1	B	150	SER	C-N-CA	10.57	130.32	119.64
1	B	209	SER	CA-C-N	-10.57	101.34	121.54
1	B	209	SER	C-N-CA	-10.57	101.34	121.54
1	F	183	CYS	O-C-N	-10.57	111.01	122.96
1	A	32	MET	CG-SD-CE	-10.57	77.65	100.90
1	C	132	GLN	CB-CG-CD	10.57	130.57	112.60
1	F	143	ALA	N-CA-CB	10.57	127.37	110.46
1	A	102	ILE	CA-C-N	-10.56	105.06	122.81
1	A	102	ILE	C-N-CA	-10.56	105.06	122.81
1	C	67	LEU	CB-CA-C	10.56	127.35	109.50
1	E	189	PRO	CA-CB-CG	-10.56	84.43	104.50
1	D	153	ARG	N-CA-CB	-10.56	92.64	110.49
1	B	152	TYR	CB-CG-CD2	10.56	136.63	120.80
1	A	234	THR	CA-C-O	-10.55	108.82	121.06
1	C	164	LEU	CB-CA-C	-10.55	92.89	110.19
1	A	147	LEU	CA-C-N	10.54	137.86	123.00
1	A	147	LEU	C-N-CA	10.54	137.86	123.00
1	A	200	ASN	CB-CG-OD1	10.54	141.88	120.80
1	E	108	TRP	CA-C-O	-10.54	109.19	120.99
1	C	62	LEU	CA-C-O	10.54	133.24	120.28
1	E	30	PHE	CA-C-O	-10.54	108.15	121.11
1	D	40	LEU	O-C-N	10.54	135.59	123.05
1	A	102	ILE	CB-CG1-CD1	10.53	135.92	113.80
1	C	152	TYR	CB-CG-CD2	10.53	136.60	120.80
1	E	145	GLN	OE1-CD-NE2	-10.53	112.07	122.60
1	A	91	VAL	N-CA-C	-10.53	94.81	109.45
1	B	10	GLU	CB-CA-C	10.53	127.24	109.55
1	E	44	ASP	N-CA-C	-10.53	89.35	107.99
1	F	130	SER	CA-CB-OG	-10.53	90.04	111.10
1	C	16	THR	O-C-N	10.53	135.27	123.48
1	A	34	SER	CA-CB-OG	10.53	132.15	111.10
1	C	153	ARG	CA-CB-CG	-10.51	93.08	114.10
1	F	8	SER	O-C-N	10.51	136.57	122.59
1	B	152	TYR	CB-CA-C	-10.51	90.12	109.46
1	B	214	ARG	NH1-CZ-NH2	-10.51	105.64	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	51	ASN	CA-CB-CG	10.51	123.11	112.60
1	A	94	LEU	N-CA-C	-10.51	91.28	108.41
1	B	53	ALA	CB-CA-C	10.51	126.70	109.89
1	D	5	PHE	CA-C-O	-10.51	108.71	120.69
1	A	220	GLN	CA-C-O	-10.50	105.77	120.16
1	D	47	VAL	CA-CB-CG2	10.50	128.25	110.40
1	F	44	ASP	CA-C-O	10.50	135.52	120.51
1	A	39	VAL	N-CA-C	10.50	125.02	108.85
1	C	78	ARG	NE-CZ-NH2	10.50	128.65	119.20
1	B	73	ALA	CA-C-O	-10.49	105.50	120.51
1	B	38	LEU	O-C-N	10.49	135.93	123.02
1	D	125	ASN	CB-CG-OD1	-10.49	99.81	120.80
1	E	167	ARG	NH1-CZ-NH2	-10.49	105.66	119.30
1	E	35	ASP	CA-CB-CG	10.49	123.09	112.60
1	F	50	SER	CA-C-N	10.48	137.49	122.08
1	F	50	SER	C-N-CA	10.48	137.49	122.08
1	D	137	HIS	CB-CA-C	-10.48	93.72	109.97
1	E	149	LEU	CB-CA-C	-10.48	89.56	110.42
1	A	35	ASP	CA-C-N	10.48	141.31	123.91
1	A	35	ASP	C-N-CA	10.48	141.31	123.91
1	C	218	VAL	CG1-CB-CG2	-10.48	87.74	110.80
1	A	136	ASN	CB-CA-C	10.48	129.25	111.22
1	F	46	ARG	CG-CD-NE	10.48	135.05	112.00
1	B	38	LEU	CD1-CG-CD2	10.47	133.85	110.80
1	A	165	PHE	CA-CB-CG	-10.47	103.33	113.80
1	B	158	THR	N-CA-C	-10.47	99.55	110.97
1	B	175	ASN	OD1-CG-ND2	10.47	133.07	122.60
1	D	188	GLN	CA-C-N	10.47	132.93	119.84
1	D	188	GLN	C-N-CA	10.47	132.93	119.84
1	C	228	TYR	N-CA-CB	10.46	126.75	110.84
1	A	87	ILE	CB-CG1-CD1	-10.46	91.84	113.80
1	B	216	VAL	CA-CB-CG2	-10.46	92.62	110.40
1	A	5	PHE	CA-C-N	-10.45	110.18	122.83
1	A	5	PHE	C-N-CA	-10.45	110.18	122.83
1	C	98	ARG	CA-C-O	10.46	133.72	121.28
1	F	64	SER	O-C-N	-10.45	108.69	122.59
1	F	68	LEU	N-CA-CB	10.45	127.52	110.69
1	A	177	ALA	CA-C-O	-10.45	109.67	121.89
1	B	147	LEU	CB-CG-CD1	10.45	142.04	110.70
1	D	154	LEU	CD1-CG-CD2	-10.45	87.82	110.80
1	B	5	PHE	CD1-CE1-CZ	10.44	138.80	120.00
1	F	222	ASP	CA-C-O	-10.44	107.36	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	233	TRP	CA-C-O	-10.44	109.61	121.40
1	E	51	ASN	N-CA-CB	10.44	128.85	111.53
1	E	45	VAL	N-CA-CB	10.43	128.45	111.23
1	A	51	ASN	CB-CG-ND2	10.43	132.04	116.40
1	B	77	ILE	CA-CB-CG1	-10.42	92.68	110.40
1	C	49	ALA	CA-C-O	-10.42	105.61	120.51
1	B	73	ALA	N-CA-CB	10.42	128.09	110.49
1	F	187	LEU	N-CA-CB	10.42	128.31	110.81
1	A	194	ASP	CA-C-O	10.41	133.17	121.40
1	B	45	VAL	CA-CB-CG1	10.41	128.10	110.40
1	D	40	LEU	CA-C-O	-10.41	109.71	120.54
1	E	155	SER	N-CA-CB	-10.40	94.09	111.57
1	D	163	VAL	CA-CB-CG1	-10.39	92.73	110.40
1	A	90	TYR	CB-CG-CD1	10.39	136.39	120.80
1	B	69	VAL	O-C-N	10.39	134.22	123.10
1	A	143	ALA	CA-C-O	-10.39	109.48	120.70
1	A	120	VAL	CA-CB-CG1	10.38	128.05	110.40
1	B	123	ASN	OD1-CG-ND2	-10.38	112.22	122.60
1	B	44	ASP	N-CA-C	-10.37	94.89	110.14
1	C	13	HIS	CA-C-N	-10.37	108.79	119.99
1	C	13	HIS	C-N-CA	-10.37	108.79	119.99
1	D	129	TYR	CA-C-N	10.37	141.35	121.54
1	D	129	TYR	C-N-CA	10.37	141.35	121.54
1	C	153	ARG	NE-CZ-NH1	-10.37	111.13	121.50
1	F	14	PRO	CA-N-CD	-10.37	97.49	112.00
1	F	209	SER	CB-CA-C	10.36	128.80	110.36
1	F	155	SER	CA-C-N	10.36	138.19	123.07
1	F	155	SER	C-N-CA	10.36	138.19	123.07
1	C	28	PHE	CD1-CE1-CZ	-10.36	101.36	120.00
1	B	112	THR	O-C-N	-10.35	108.82	122.59
1	D	224	ASN	O-C-N	-10.35	110.51	123.24
1	F	30	PHE	N-CA-CB	-10.35	94.92	110.86
1	B	17	LEU	O-C-N	-10.35	111.58	123.27
1	D	107	LEU	CD1-CG-CD2	-10.35	88.03	110.80
1	D	188	GLN	N-CA-CB	-10.35	91.95	110.37
1	E	185	ALA	N-CA-CB	-10.35	93.08	110.16
1	B	47	VAL	CB-CA-C	-10.34	100.78	110.91
1	E	89	ASN	CA-C-O	-10.34	109.31	121.82
1	F	139	GLN	CB-CG-CD	10.34	130.17	112.60
1	A	94	LEU	CB-CG-CD2	10.33	141.70	110.70
1	F	193	MET	O-C-N	-10.33	110.95	123.04
1	F	61	VAL	N-CA-C	10.33	130.82	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	47	VAL	CA-C-O	-10.32	109.85	120.69
1	A	212	ALA	CB-CA-C	-10.32	89.88	110.42
1	A	217	PHE	CA-CB-CG	10.32	124.12	113.80
1	B	220	GLN	CA-CB-CG	10.32	134.74	114.10
1	E	60	ALA	O-C-N	-10.32	109.94	122.11
1	E	129	TYR	O-C-N	-10.32	108.87	122.59
1	B	11	GLY	O-C-N	10.31	136.11	122.70
1	D	5	PHE	N-CA-CB	-10.31	93.97	109.95
1	A	61	VAL	CA-CB-CG1	10.31	127.92	110.40
1	E	131	THR	N-CA-C	10.31	139.86	111.00
1	B	142	HIS	CG-ND1-CE1	10.31	126.82	109.30
1	D	167	ARG	CA-C-O	10.30	135.25	120.51
1	A	202	ALA	N-CA-CB	-10.30	93.83	110.21
1	B	70	ILE	CA-CB-CG2	10.30	128.02	110.50
1	A	94	LEU	CA-C-N	10.30	157.90	122.15
1	A	94	LEU	C-N-CA	10.30	157.90	122.15
1	A	223	ARG	CD-NE-CZ	-10.30	109.98	124.40
1	E	66	GLY	CA-C-N	-10.30	104.46	122.07
1	E	66	GLY	C-N-CA	-10.30	104.46	122.07
1	C	136	ASN	N-CA-C	10.30	139.83	111.00
1	B	132	GLN	OE1-CD-NE2	-10.29	112.31	122.60
1	C	3	ILE	CA-C-O	-10.29	109.34	121.28
1	C	158	THR	OG1-CB-CG2	-10.29	88.71	109.30
1	C	145	GLN	CA-CB-CG	10.29	134.68	114.10
1	F	169	ASP	CA-C-N	10.29	136.19	122.30
1	F	169	ASP	C-N-CA	10.29	136.19	122.30
1	D	143	ALA	CA-C-N	10.28	141.18	121.54
1	D	143	ALA	C-N-CA	10.28	141.18	121.54
1	A	26	SER	CA-C-O	-10.28	105.81	120.51
1	A	173	SER	N-CA-C	10.28	123.61	108.60
1	B	84	LYS	CB-CA-C	-10.28	91.66	109.65
1	C	83	THR	CA-C-O	-10.28	108.61	121.46
1	E	173	SER	N-CA-C	10.28	124.14	108.52
1	B	89	ASN	CA-C-N	10.28	140.45	122.67
1	B	89	ASN	C-N-CA	10.28	140.45	122.67
1	D	74	GLN	CB-CA-C	-10.27	95.06	111.28
1	D	108	TRP	O-C-N	-10.27	111.72	123.33
1	A	188	GLN	O-C-N	-10.27	109.52	121.32
1	B	181	THR	CA-CB-CG2	10.26	127.95	110.50
1	C	117	SER	CA-C-O	10.26	135.19	120.51
1	E	70	ILE	CA-C-O	-10.26	107.21	120.86
1	D	188	GLN	N-CA-C	10.26	132.48	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	25	LEU	CA-C-O	-10.26	109.52	121.11
1	D	184	ARG	CA-C-O	10.26	132.96	121.06
1	C	94	LEU	N-CA-CB	-10.25	94.90	109.97
1	B	128	LEU	CA-C-N	10.25	136.26	120.89
1	B	128	LEU	C-N-CA	10.25	136.26	120.89
1	D	69	VAL	CB-CA-C	10.25	125.23	111.19
1	E	21	GLN	N-CA-CB	-10.25	94.06	109.95
1	B	9	HIS	CA-CB-CG	10.25	124.05	113.80
1	C	148	GLN	N-CA-C	10.25	125.27	108.26
1	D	45	VAL	O-C-N	-10.25	109.76	122.57
1	C	29	ARG	N-CA-CB	-10.24	94.08	110.77
1	D	154	LEU	CA-CB-CG	10.24	152.15	116.30
1	A	94	LEU	CA-C-O	10.24	131.26	120.30
1	C	118	VAL	N-CA-C	10.24	130.64	109.34
1	A	172	TRP	CA-C-O	-10.24	109.54	121.11
1	E	95	GLN	N-CA-C	10.24	123.81	110.40
1	D	100	VAL	CG1-CB-CG2	-10.23	88.29	110.80
1	B	10	GLU	CA-CB-CG	10.23	134.56	114.10
1	E	126	SER	CA-C-N	10.22	136.41	123.12
1	E	126	SER	C-N-CA	10.22	136.41	123.12
1	E	104	GLY	CA-C-N	10.22	132.61	119.84
1	E	104	GLY	C-N-CA	10.22	132.61	119.84
1	C	161	ASN	CB-CG-ND2	10.21	131.72	116.40
1	E	145	GLN	CG-CD-NE2	10.21	131.71	116.40
1	B	67	LEU	O-C-N	-10.20	110.32	122.87
1	C	175	ASN	CA-C-O	-10.20	109.14	121.28
1	E	100	VAL	CA-CB-CG2	10.20	127.73	110.40
1	B	203	VAL	CB-CA-C	10.19	128.00	111.29
1	E	7	LEU	O-C-N	-10.19	109.04	122.59
1	E	226	ALA	CA-C-O	-10.19	109.19	121.11
1	F	138	PRO	CB-CA-C	-10.19	94.21	110.21
1	F	139	GLN	CG-CD-OE1	10.19	141.17	120.80
1	F	216	VAL	CA-C-N	10.19	138.22	122.94
1	F	216	VAL	C-N-CA	10.19	138.22	122.94
1	E	140	THR	CA-C-N	-10.18	106.24	122.73
1	E	140	THR	C-N-CA	-10.18	106.24	122.73
1	E	123	ASN	CB-CA-C	-10.18	90.66	111.22
1	B	228	TYR	CG-CD2-CE2	10.18	136.46	121.20
1	A	235	THR	N-CA-CB	-10.17	94.20	111.50
1	E	164	LEU	CA-C-N	-10.17	108.81	123.05
1	E	164	LEU	C-N-CA	-10.17	108.81	123.05
1	D	188	GLN	CA-C-O	10.17	134.09	120.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	128	LEU	O-C-N	-10.16	109.08	122.59
1	E	39	VAL	CA-C-O	-10.15	110.52	121.28
1	A	157	GLU	N-CA-C	10.15	125.31	110.59
1	A	91	VAL	CB-CA-C	10.15	125.49	111.49
1	B	222	ASP	O-C-N	-10.15	108.46	122.46
1	D	105	PRO	CA-C-N	10.15	141.30	121.41
1	D	105	PRO	C-N-CA	10.15	141.30	121.41
1	C	159	ASP	N-CA-C	-10.15	100.90	113.18
1	C	168	ASP	CB-CG-OD2	-10.15	95.06	118.40
1	C	168	ASP	CA-C-O	-10.14	106.00	120.51
1	F	141	LEU	CA-C-O	-10.14	107.80	120.28
1	E	223	ARG	NE-CZ-NH1	-10.14	111.36	121.50
1	A	41	PHE	CB-CA-C	-10.14	88.79	109.38
1	B	56	THR	O-C-N	-10.13	109.11	122.59
1	B	65	ASP	CA-CB-CG	10.13	122.73	112.60
1	C	122	ASN	CA-C-N	10.13	140.90	121.54
1	C	122	ASN	C-N-CA	10.13	140.90	121.54
1	D	211	SER	CA-C-N	-10.13	106.53	120.82
1	D	211	SER	C-N-CA	-10.13	106.53	120.82
1	D	235	THR	CA-C-O	10.13	138.03	120.80
1	F	206	SER	O-C-N	-10.13	109.11	122.59
1	E	193	MET	CG-SD-CE	10.13	123.18	100.90
1	F	18	HIS	CE1-NE2-CD2	-10.13	98.87	109.00
1	C	59	ARG	NE-CZ-NH1	10.12	131.62	121.50
1	B	131	THR	CA-C-N	-10.12	103.49	121.70
1	B	131	THR	C-N-CA	-10.12	103.49	121.70
1	E	192	ARG	CB-CA-C	10.12	128.23	109.71
1	C	15	GLN	CG-CD-OE1	10.12	141.03	120.80
1	C	215	TYR	CB-CG-CD1	-10.12	105.62	120.80
1	A	90	TYR	CB-CA-C	-10.11	90.05	109.37
1	B	85	GLY	N-CA-C	-10.11	94.69	110.77
1	D	105	PRO	N-CD-CG	10.11	118.37	103.20
1	E	149	LEU	O-C-N	10.11	136.04	122.59
1	A	166	ASP	CB-CA-C	-10.10	94.26	111.23
1	C	60	ALA	CB-CA-C	10.10	126.61	110.95
1	F	138	PRO	CA-N-CD	-10.10	97.86	112.00
1	A	28	PHE	O-C-N	10.09	135.06	122.65
1	C	155	SER	CA-CB-OG	-10.08	90.94	111.10
1	B	59	ARG	CA-C-O	10.08	132.04	120.75
1	D	173	SER	CA-C-N	10.07	140.78	121.54
1	D	173	SER	C-N-CA	10.07	140.78	121.54
1	B	69	VAL	CA-C-O	-10.06	109.40	120.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	170	ARG	CA-C-O	-10.06	106.13	120.51
1	D	138	PRO	O-C-N	-10.05	111.67	123.03
1	E	25	LEU	CD1-CG-CD2	-10.05	88.69	110.80
1	B	37	ASN	CA-C-N	-10.04	107.16	121.72
1	B	37	ASN	C-N-CA	-10.04	107.16	121.72
1	D	9	HIS	N-CA-C	10.04	132.19	110.80
1	C	162	LEU	CA-C-N	-10.03	107.64	122.68
1	C	162	LEU	C-N-CA	-10.03	107.64	122.68
1	E	146	SER	N-CA-C	10.02	132.15	110.80
1	C	83	THR	N-CA-CB	10.02	127.49	110.65
1	B	18	HIS	ND1-CE1-NE2	10.02	118.42	108.40
1	B	21	GLN	CB-CG-CD	10.02	129.62	112.60
1	B	69	VAL	CA-CB-CG2	10.02	127.43	110.40
1	C	44	ASP	CB-CA-C	-10.02	94.95	111.68
1	D	195	VAL	CA-C-N	10.02	135.74	121.42
1	D	195	VAL	C-N-CA	10.02	135.74	121.42
1	B	1	ASN	CA-C-N	10.01	138.21	122.49
1	B	1	ASN	C-N-CA	10.01	138.21	122.49
1	C	120	VAL	CA-C-O	-10.01	108.27	120.78
1	A	3	ILE	CA-CB-CG2	-10.01	93.49	110.50
1	E	3	ILE	CB-CG1-CD1	-10.01	92.79	113.80
1	A	97	ASP	CA-C-O	-10.00	106.21	120.51
1	B	223	ARG	NH1-CZ-NH2	10.00	132.30	119.30
1	F	139	GLN	N-CA-CB	-10.00	94.70	111.20
1	B	57	GLY	O-C-N	-10.00	109.70	122.70
1	A	105	PRO	N-CD-CG	9.99	118.19	103.20
1	E	18	HIS	CB-CA-C	-9.99	101.84	116.53
1	C	176	THR	N-CA-CB	-9.99	93.61	110.49
1	D	24	GLU	CA-C-N	9.98	137.91	123.14
1	D	24	GLU	C-N-CA	9.98	137.91	123.14
1	C	176	THR	OG1-CB-CG2	-9.98	89.35	109.30
1	D	42	ASP	CB-CA-C	-9.97	94.54	110.79
1	F	105	PRO	CB-CG-CD	-9.97	82.47	105.40
1	B	54	GLY	O-C-N	9.97	135.66	122.70
1	B	90	TYR	CE1-CZ-OH	9.96	149.77	119.90
1	A	3	ILE	CB-CG1-CD1	-9.95	92.90	113.80
1	D	16	THR	N-CA-C	9.95	125.23	109.50
1	E	232	LEU	CA-C-N	-9.95	103.28	121.69
1	E	232	LEU	C-N-CA	-9.95	103.28	121.69
1	F	193	MET	CA-CB-CG	9.95	134.00	114.10
1	E	37	ASN	CA-C-O	-9.94	108.95	120.49
1	B	19	ALA	N-CA-C	-9.94	99.96	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	184	ARG	N-CA-C	-9.94	94.15	108.96
1	D	33	GLN	CA-C-N	9.94	136.63	120.63
1	D	33	GLN	C-N-CA	9.94	136.63	120.63
1	A	32	MET	CB-CA-C	-9.94	95.20	111.50
1	B	83	THR	CA-CB-CG2	9.94	127.39	110.50
1	E	226	ALA	CA-C-N	-9.94	109.40	123.11
1	E	226	ALA	C-N-CA	-9.94	109.40	123.11
1	B	140	THR	CA-CB-OG1	-9.93	94.70	109.60
1	B	191	GLY	CA-C-O	-9.93	103.29	120.57
1	F	43	SER	CA-C-O	9.93	134.71	120.51
1	F	26	SER	O-C-N	-9.93	109.39	122.59
1	A	46	ARG	CD-NE-CZ	9.93	138.29	124.40
1	C	142	HIS	N-CA-C	9.93	116.92	108.78
1	F	186	VAL	CA-C-N	-9.93	105.65	122.33
1	F	186	VAL	C-N-CA	-9.93	105.65	122.33
1	E	125	ASN	O-C-N	-9.92	110.18	122.19
1	C	224	ASN	CA-C-O	-9.92	109.74	121.05
1	E	157	GLU	N-CA-C	9.92	125.12	109.65
1	E	170	ARG	O-C-N	9.92	135.25	122.95
1	F	169	ASP	CB-CA-C	9.91	127.00	109.65
1	F	235	THR	CA-C-O	9.91	137.66	120.80
1	B	196	LEU	O-C-N	-9.91	109.41	122.59
1	D	45	VAL	N-CA-CB	9.90	127.56	111.23
1	F	233	TRP	N-CA-C	-9.90	95.13	109.18
1	B	206	SER	CA-CB-OG	9.89	130.89	111.10
1	E	156	MET	O-C-N	9.89	134.97	123.29
1	F	160	CYS	CB-CA-C	9.89	130.10	110.42
1	F	212	ALA	CB-CA-C	9.89	126.02	109.80
1	F	5	PHE	CD1-CG-CD2	-9.88	103.77	118.60
1	B	188	GLN	CA-C-O	-9.88	106.63	120.16
1	F	105	PRO	CA-N-CD	-9.88	97.67	111.50
1	A	155	SER	O-C-N	9.87	135.38	123.24
1	E	15	GLN	CB-CA-C	9.87	126.82	109.65
1	F	84	LYS	CA-CB-CG	9.87	133.83	114.10
1	C	125	ASN	N-CA-CB	-9.86	93.82	110.49
1	E	200	ASN	OD1-CG-ND2	-9.86	112.74	122.60
1	D	5	PHE	CA-C-N	9.86	131.57	122.20
1	D	5	PHE	C-N-CA	9.86	131.57	122.20
1	E	60	ALA	CB-CA-C	9.86	127.06	111.39
1	C	113	SER	CA-C-N	9.85	138.38	121.64
1	C	113	SER	C-N-CA	9.85	138.38	121.64
1	A	167	ARG	NE-CZ-NH1	9.85	131.35	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	95	GLN	O-C-N	-9.84	110.00	121.32
1	B	41	PHE	CA-C-O	-9.84	110.20	121.81
1	C	81	SER	CA-C-O	9.84	129.87	119.05
1	D	201	ILE	N-CA-CB	-9.84	95.12	110.86
1	B	79	TRP	CB-CG-CD2	9.83	140.56	126.80
1	C	109	ASP	CA-C-N	9.83	134.25	120.29
1	C	109	ASP	C-N-CA	9.83	134.25	120.29
1	D	195	VAL	N-CA-CB	9.83	121.60	112.06
1	B	76	THR	CA-CB-CG2	9.82	127.20	110.50
1	E	160	CYS	CA-CB-SG	9.82	137.00	114.40
1	A	142	HIS	ND1-CG-CD2	-9.82	96.28	106.10
1	A	46	ARG	CA-C-N	-9.82	110.95	122.63
1	A	46	ARG	C-N-CA	-9.82	110.95	122.63
1	B	33	GLN	CA-CB-CG	9.82	133.73	114.10
1	E	162	LEU	CA-C-O	-9.82	109.68	120.38
1	A	46	ARG	CB-CG-CD	9.81	133.87	111.30
1	C	173	SER	CB-CA-C	-9.81	89.67	109.79
1	D	55	ALA	N-CA-C	9.81	121.72	107.88
1	B	159	ASP	O-C-N	-9.81	109.54	122.59
1	C	207	GLY	CA-C-N	9.81	136.67	122.44
1	C	207	GLY	C-N-CA	9.81	136.67	122.44
1	F	154	LEU	CD1-CG-CD2	-9.81	89.22	110.80
1	A	22	SER	CA-C-N	9.81	136.53	123.00
1	A	22	SER	C-N-CA	9.81	136.53	123.00
1	B	192	ARG	CA-C-N	-9.80	102.63	121.06
1	B	192	ARG	C-N-CA	-9.80	102.63	121.06
1	C	66	GLY	CA-C-O	9.80	129.85	118.97
1	E	124	GLY	N-CA-C	9.80	136.41	113.18
1	E	173	SER	CB-CA-C	-9.80	94.21	109.99
1	D	5	PHE	CE1-CZ-CE2	-9.80	102.36	120.00
1	A	12	SER	CA-C-N	-9.79	109.87	123.96
1	A	12	SER	C-N-CA	-9.79	109.87	123.96
1	A	138	PRO	CA-C-N	-9.78	106.74	121.99
1	A	138	PRO	C-N-CA	-9.78	106.74	121.99
1	E	78	ARG	CA-C-O	-9.78	107.66	119.49
1	F	150	SER	CA-C-O	-9.78	106.77	120.16
1	C	160	CYS	N-CA-CB	9.77	127.01	110.49
1	D	73	ALA	CA-C-N	9.77	138.72	122.79
1	D	73	ALA	C-N-CA	9.77	138.72	122.79
1	B	32	MET	CB-CA-C	9.77	126.31	110.29
1	F	137	HIS	CA-CB-CG	-9.77	104.03	113.80
1	A	35	ASP	CA-CB-CG	-9.77	102.83	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	145	GLN	CB-CA-C	9.76	126.95	109.38
1	C	19	ALA	N-CA-C	9.76	125.00	112.89
1	B	28	PHE	N-CA-CB	-9.76	95.33	110.56
1	A	105	PRO	O-C-N	9.76	135.81	122.64
1	B	61	VAL	CA-CB-CG1	9.76	126.98	110.40
1	E	232	LEU	CA-C-O	-9.75	106.56	120.51
1	D	31	THR	N-CA-CB	9.75	126.99	111.20
1	F	75	ASN	CA-CB-CG	-9.75	102.85	112.60
1	D	131	THR	N-CA-CB	-9.75	94.93	111.50
1	F	69	VAL	CA-C-N	9.74	136.36	123.11
1	F	69	VAL	C-N-CA	9.74	136.36	123.11
1	A	87	ILE	CA-CB-CG2	-9.74	93.94	110.50
1	F	155	SER	CA-CB-OG	-9.73	91.63	111.10
1	F	10	GLU	CA-C-O	-9.73	107.50	118.69
1	A	63	GLN	CB-CA-C	-9.73	91.69	114.16
1	B	8	SER	N-CA-C	-9.73	94.93	109.81
1	C	216	VAL	CA-CB-CG2	-9.73	93.86	110.40
1	C	114	ASN	N-CA-CB	-9.72	94.14	110.57
1	B	83	THR	N-CA-CB	-9.72	94.06	110.49
1	C	64	SER	CA-CB-OG	9.72	130.54	111.10
1	E	14	PRO	CA-N-CD	-9.72	98.39	112.00
1	B	74	GLN	CB-CG-CD	-9.72	96.08	112.60
1	C	30	PHE	CB-CA-C	9.71	127.55	111.23
1	E	193	MET	N-CA-C	-9.71	93.64	109.96
1	B	233	TRP	CB-CG-CD1	-9.71	112.34	126.90
1	F	131	THR	OG1-CB-CG2	9.71	128.71	109.30
1	B	235	THR	N-CA-CB	-9.70	95.01	111.50
1	D	147	LEU	CA-C-N	9.70	137.68	122.74
1	D	147	LEU	C-N-CA	9.70	137.68	122.74
1	D	152	TYR	CB-CG-CD2	-9.70	106.25	120.80
1	D	224	ASN	CB-CG-OD1	-9.70	101.40	120.80
1	C	193	MET	CG-SD-CE	-9.70	79.57	100.90
1	D	136	ASN	N-CA-CB	9.70	126.98	110.50
1	F	48	TRP	CA-C-O	-9.69	109.81	121.06
1	A	194	ASP	CB-CG-OD2	9.69	140.69	118.40
1	C	143	ALA	CB-CA-C	9.69	128.54	109.35
1	D	156	MET	CA-CB-CG	9.69	133.48	114.10
1	D	48	TRP	N-CA-C	-9.69	93.45	108.76
1	B	184	ARG	O-C-N	-9.69	110.64	123.23
1	E	5	PHE	CA-C-N	-9.69	102.42	121.41
1	E	5	PHE	C-N-CA	-9.69	102.42	121.41
1	E	161	ASN	CB-CA-C	9.69	127.10	109.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	120	VAL	CA-C-O	-9.68	108.68	120.78
1	B	130	SER	N-CA-C	-9.68	90.18	110.80
1	E	36	CYS	CA-C-O	-9.68	106.67	120.51
1	B	107	LEU	N-CA-CB	9.68	126.85	110.49
1	E	199	GLN	CA-C-N	9.68	140.03	121.54
1	E	199	GLN	C-N-CA	9.68	140.03	121.54
1	F	137	HIS	CA-C-N	9.68	132.71	120.51
1	F	137	HIS	C-N-CA	9.68	132.71	120.51
1	E	162	LEU	CB-CA-C	9.68	126.46	109.72
1	A	6	GLY	N-CA-C	-9.67	98.77	112.60
1	C	2	ASN	CA-CB-CG	-9.67	102.93	112.60
1	D	125	ASN	OD1-CG-ND2	9.67	132.27	122.60
1	E	16	THR	N-CA-C	9.67	124.18	108.99
1	E	61	VAL	CA-C-N	9.67	136.71	122.39
1	E	61	VAL	C-N-CA	9.67	136.71	122.39
1	D	92	LEU	N-CA-C	-9.67	93.68	108.67
1	F	45	VAL	CA-C-N	-9.67	108.55	122.19
1	F	45	VAL	C-N-CA	-9.67	108.55	122.19
1	B	28	PHE	CB-CG-CD2	-9.66	104.28	120.70
1	E	75	ASN	OD1-CG-ND2	9.66	132.26	122.60
1	A	146	SER	CB-CA-C	-9.65	91.21	110.42
1	A	213	GLY	N-CA-C	-9.65	90.31	113.18
1	C	131	THR	CB-CA-C	9.65	131.22	110.19
1	D	96	PRO	CB-CA-C	9.65	125.55	111.85
1	A	200	ASN	CB-CA-C	9.64	129.60	110.42
1	C	67	LEU	O-C-N	9.64	134.18	123.10
1	A	2	ASN	CB-CA-C	9.63	129.59	110.42
1	F	154	LEU	CB-CG-CD1	9.63	139.60	110.70
1	E	75	ASN	CA-C-N	-9.63	108.30	122.65
1	E	75	ASN	C-N-CA	-9.63	108.30	122.65
1	A	44	ASP	CB-CG-OD2	9.63	140.55	118.40
1	A	102	ILE	N-CA-C	9.62	122.04	107.99
1	E	87	ILE	CG1-CB-CG2	9.62	139.56	110.70
1	E	42	ASP	CA-CB-CG	9.62	122.22	112.60
1	C	198	ASN	N-CA-CB	-9.61	95.93	110.16
1	F	155	SER	CA-C-O	9.61	134.10	121.89
1	C	48	TRP	CB-CG-CD2	9.61	140.26	126.80
1	C	214	ARG	NH1-CZ-NH2	-9.61	106.80	119.30
1	F	67	LEU	CB-CG-CD2	9.61	139.53	110.70
1	B	99	THR	N-CA-CB	9.61	126.16	110.69
1	C	17	LEU	CA-C-O	-9.61	110.18	120.46
1	C	139	GLN	CB-CG-CD	9.61	128.93	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	137	HIS	CB-CG-CD2	-9.61	118.71	131.20
1	E	217	PHE	CB-CG-CD1	-9.60	104.38	120.70
1	B	10	GLU	CA-C-N	-9.60	102.59	121.41
1	B	10	GLU	C-N-CA	-9.60	102.59	121.41
1	C	205	THR	N-CA-CB	-9.60	93.62	111.00
1	D	77	ILE	CA-CB-CG1	9.60	126.72	110.40
1	D	73	ALA	N-CA-C	-9.60	101.35	112.87
1	A	175	ASN	CB-CG-ND2	-9.60	102.01	116.40
1	B	78	ARG	CA-C-O	9.60	129.49	118.55
1	E	23	LEU	N-CA-C	-9.60	93.22	109.24
1	E	144	THR	CA-CB-CG2	-9.60	94.19	110.50
1	E	224	ASN	CA-CB-CG	-9.60	103.00	112.60
1	C	192	ARG	CB-CG-CD	9.59	133.37	111.30
1	E	55	ALA	CA-C-O	-9.59	110.00	121.32
1	E	211	SER	CA-C-O	-9.59	106.80	120.51
1	B	104	GLY	C-N-CD	-9.59	85.70	125.00
1	F	63	GLN	N-CA-C	9.58	124.33	110.24
1	B	234	THR	O-C-N	-9.58	111.70	122.72
1	C	121	ALA	CA-C-N	9.58	139.84	121.54
1	C	121	ALA	C-N-CA	9.58	139.84	121.54
1	B	22	SER	CA-C-O	9.57	132.32	120.54
1	E	183	CYS	CA-CB-SG	-9.57	92.38	114.40
1	F	192	ARG	CA-C-O	9.57	130.70	120.36
1	B	65	ASP	OD1-CG-OD2	-9.57	99.93	122.90
1	B	24	GLU	CA-CB-CG	9.57	133.24	114.10
1	D	14	PRO	O-C-N	9.57	135.56	122.64
1	D	216	VAL	CA-CB-CG1	-9.57	94.14	110.40
1	D	14	PRO	CA-C-O	-9.56	103.19	120.60
1	C	167	ARG	CA-C-O	-9.56	106.84	120.51
1	C	9	HIS	CB-CG-ND1	-9.56	108.36	122.70
1	A	32	MET	N-CA-CB	9.56	126.28	110.42
1	D	217	PHE	O-C-N	-9.56	110.77	123.19
1	C	10	GLU	N-CA-CB	-9.55	94.34	110.49
1	D	107	LEU	CB-CG-CD2	-9.55	82.03	110.70
1	B	6	GLY	CA-C-N	9.55	139.78	121.54
1	B	6	GLY	C-N-CA	9.55	139.78	121.54
1	B	83	THR	OG1-CB-CG2	-9.55	90.20	109.30
1	F	33	GLN	OE1-CD-NE2	9.55	132.15	122.60
1	B	54	GLY	CA-C-N	-9.54	106.11	121.86
1	B	54	GLY	C-N-CA	-9.54	106.11	121.86
1	A	151	PRO	CA-C-N	9.54	136.43	121.26
1	A	151	PRO	C-N-CA	9.54	136.43	121.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	102	ILE	O-C-N	-9.54	113.09	123.20
1	A	215	TYR	CA-CB-CG	-9.54	96.74	113.90
1	E	193	MET	CA-CB-CG	9.54	133.17	114.10
1	B	138	PRO	CB-CA-C	-9.53	99.16	111.46
1	D	186	VAL	CA-C-O	-9.53	111.18	121.28
1	E	202	ALA	O-C-N	-9.53	112.04	123.29
1	D	152	TYR	CE1-CZ-OH	9.53	148.49	119.90
1	A	45	VAL	CA-C-O	9.53	132.69	120.78
1	E	105	PRO	N-CA-CB	9.53	113.25	103.25
1	A	210	ARG	CA-C-O	9.52	131.97	121.40
1	B	141	LEU	CA-C-N	9.52	138.83	121.41
1	B	141	LEU	C-N-CA	9.52	138.83	121.41
1	B	15	GLN	O-C-N	9.51	132.60	122.23
1	C	93	VAL	CA-C-N	9.51	134.38	120.87
1	C	93	VAL	C-N-CA	9.51	134.38	120.87
1	B	91	VAL	CA-C-O	-9.51	110.28	120.36
1	C	89	ASN	CB-CA-C	-9.50	90.61	109.33
1	A	7	LEU	O-C-N	-9.49	112.22	122.09
1	D	24	GLU	N-CA-C	9.49	124.63	108.02
1	E	119	VAL	N-CA-C	9.49	129.08	109.34
1	F	213	GLY	CA-C-N	-9.49	109.90	123.00
1	F	213	GLY	C-N-CA	-9.49	109.90	123.00
1	E	210	ARG	CD-NE-CZ	-9.49	111.11	124.40
1	A	233	TRP	CH2-CZ2-CE2	9.48	129.83	117.50
1	A	173	SER	O-C-N	-9.48	113.30	123.26
1	A	199	GLN	CA-CB-CG	9.48	133.06	114.10
1	D	107	LEU	O-C-N	9.48	135.20	122.59
1	D	157	GLU	CB-CG-CD	9.48	128.72	112.60
1	E	102	ILE	CA-CB-CG2	9.48	126.62	110.50
1	B	7	LEU	CA-C-N	9.48	140.00	123.03
1	B	7	LEU	C-N-CA	9.48	140.00	123.03
1	D	129	TYR	CA-CB-CG	9.48	130.96	113.90
1	E	52	THR	CA-CB-CG2	9.48	126.61	110.50
1	F	20	ALA	CB-CA-C	9.48	126.58	110.94
1	C	165	PHE	N-CA-CB	-9.47	94.88	111.08
1	B	46	ARG	NE-CZ-NH2	-9.47	110.68	119.20
1	A	93	VAL	O-C-N	9.47	133.81	122.83
1	B	219	LEU	CA-C-O	-9.47	110.29	120.80
1	C	193	MET	CA-C-O	-9.46	110.29	120.80
1	F	87	ILE	CB-CA-C	-9.47	95.77	111.29
1	C	53	ALA	O-C-N	-9.46	110.01	122.59
1	A	72	THR	CA-C-N	9.45	139.60	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	72	THR	C-N-CA	9.45	139.60	121.54
1	D	200	ASN	N-CA-C	9.45	125.35	110.70
1	E	166	ASP	CB-CA-C	9.46	125.31	109.80
1	D	16	THR	CB-CA-C	-9.45	89.63	109.38
1	B	9	HIS	ND1-CE1-NE2	9.45	117.85	108.40
1	B	174	THR	CA-C-O	9.45	129.92	119.15
1	A	86	SER	N-CA-CB	-9.45	94.53	110.49
1	A	228	TYR	CA-C-O	9.45	131.52	120.66
1	F	20	ALA	CA-C-N	9.45	138.70	122.64
1	F	20	ALA	C-N-CA	9.45	138.70	122.64
1	B	169	ASP	O-C-N	-9.44	112.65	123.42
1	C	86	SER	CA-CB-OG	-9.44	92.21	111.10
1	C	78	ARG	NE-CZ-NH1	-9.44	112.06	121.50
1	A	205	THR	CA-C-O	9.44	131.89	120.28
1	C	22	SER	O-C-N	-9.44	110.01	122.94
1	E	27	SER	CA-CB-OG	-9.43	92.23	111.10
1	A	17	LEU	N-CA-CB	9.43	125.36	110.65
1	B	177	ALA	CA-C-O	9.43	136.83	120.80
1	D	89	ASN	CB-CG-ND2	9.43	130.54	116.40
1	F	2	ASN	CA-C-O	9.43	128.98	119.08
1	A	146	SER	N-CA-CB	-9.43	94.56	110.49
1	C	140	THR	N-CA-C	9.43	130.88	110.80
1	D	95	GLN	N-CA-CB	-9.43	98.63	110.03
1	E	155	SER	O-C-N	-9.43	113.86	123.29
1	A	40	LEU	CD1-CG-CD2	-9.42	90.07	110.80
1	C	232	LEU	N-CA-CB	-9.42	94.57	110.49
1	D	217	PHE	N-CA-C	-9.42	94.65	109.72
1	A	184	ARG	CD-NE-CZ	9.41	137.58	124.40
1	D	50	SER	N-CA-C	-9.41	101.80	113.38
1	C	72	THR	N-CA-C	9.41	125.02	112.88
1	A	18	HIS	N-CA-C	-9.41	96.31	110.14
1	E	28	PHE	O-C-N	-9.40	112.50	123.22
1	E	76	THR	N-CA-CB	-9.40	95.01	110.52
1	D	91	VAL	CB-CA-C	9.39	125.12	110.28
1	D	204	TRP	CB-CG-CD2	9.39	139.95	126.80
1	F	101	THR	N-CA-CB	-9.39	96.72	111.56
1	B	175	ASN	CA-CB-CG	-9.39	103.21	112.60
1	E	218	VAL	CA-C-N	9.39	137.38	122.17
1	E	218	VAL	C-N-CA	9.39	137.38	122.17
1	A	92	LEU	CA-CB-CG	9.38	149.15	116.30
1	A	225	LEU	CB-CA-C	9.38	126.27	109.38
1	A	193	MET	N-CA-C	-9.38	95.38	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	28	PHE	CB-CA-C	9.38	126.72	109.46
1	F	98	ARG	O-C-N	-9.38	109.84	122.41
1	C	158	THR	O-C-N	-9.38	112.53	122.19
1	E	196	LEU	N-CA-CB	-9.38	94.51	110.83
1	F	53	ALA	CA-C-O	-9.38	109.46	120.62
1	B	79	TRP	CA-C-N	9.38	136.67	121.86
1	B	79	TRP	C-N-CA	9.38	136.67	121.86
1	C	164	LEU	O-C-N	9.38	134.33	123.27
1	B	46	ARG	NH1-CZ-NH2	9.37	131.49	119.30
1	C	140	THR	CA-CB-OG1	-9.37	95.54	109.60
1	D	151	PRO	N-CA-C	-9.37	101.62	114.27
1	E	222	ASP	O-C-N	9.37	134.48	121.83
1	B	141	LEU	CA-C-O	-9.37	109.92	120.32
1	F	87	ILE	CA-C-O	-9.37	109.07	120.78
1	C	175	ASN	CA-C-N	9.37	139.43	121.54
1	C	175	ASN	C-N-CA	9.37	139.43	121.54
1	E	10	GLU	CA-C-O	-9.36	107.12	120.51
1	B	32	MET	CA-C-N	-9.36	103.22	122.03
1	B	32	MET	C-N-CA	-9.36	103.22	122.03
1	D	53	ALA	CB-CA-C	-9.35	93.73	109.53
1	B	33	GLN	CA-C-O	-9.35	110.95	121.89
1	B	223	ARG	CB-CG-CD	-9.35	89.80	111.30
1	C	87	ILE	CA-C-N	-9.35	103.08	121.41
1	C	87	ILE	C-N-CA	-9.35	103.08	121.41
1	D	9	HIS	O-C-N	-9.35	110.16	122.59
1	C	130	SER	CA-C-N	9.35	138.63	121.06
1	C	130	SER	C-N-CA	9.35	138.63	121.06
1	E	151	PRO	N-CA-CB	-9.35	91.66	102.60
1	B	61	VAL	CA-CB-CG2	-9.35	94.51	110.40
1	D	87	ILE	CB-CA-C	-9.35	95.96	111.29
1	A	227	ILE	O-C-N	-9.34	113.09	123.18
1	C	182	GLY	CA-C-O	-9.34	104.31	120.57
1	F	101	THR	OG1-CB-CG2	9.34	127.98	109.30
1	F	127	ILE	CA-CB-CG1	9.34	126.27	110.40
1	F	84	LYS	CA-C-N	9.33	143.28	123.12
1	F	84	LYS	C-N-CA	9.33	143.28	123.12
1	D	227	ILE	CA-CB-CG2	9.33	126.36	110.50
1	A	233	TRP	CE3-CZ3-CH2	9.33	133.23	121.10
1	C	155	SER	N-CA-C	9.33	122.86	108.96
1	D	19	ALA	N-CA-C	-9.33	102.47	114.04
1	A	200	ASN	CA-C-O	9.32	133.84	120.51
1	D	168	ASP	CA-C-O	9.32	133.84	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	15	GLN	CA-C-O	-9.32	108.50	119.03
1	C	32	MET	CG-SD-CE	-9.31	80.41	100.90
1	A	55	ALA	CA-C-O	-9.31	111.55	121.14
1	A	5	PHE	N-CA-CB	9.30	125.30	110.23
1	E	148	GLN	N-CA-CB	-9.30	94.84	110.57
1	B	146	SER	CA-C-O	-9.30	107.87	118.47
1	E	87	ILE	CA-CB-CG2	-9.30	94.69	110.50
1	E	129	TYR	CA-C-O	-9.30	107.21	120.51
1	F	1	ASN	O-C-N	-9.30	108.12	123.00
1	A	160	CYS	N-CA-CB	9.30	126.20	110.49
1	B	162	LEU	CA-C-N	-9.29	105.24	121.97
1	B	162	LEU	C-N-CA	-9.29	105.24	121.97
1	E	128	LEU	CB-CG-CD1	9.29	138.59	110.70
1	F	63	GLN	CG-CD-OE1	-9.29	102.21	120.80
1	A	232	LEU	CA-C-O	-9.29	107.23	120.51
1	E	123	ASN	CA-C-N	9.29	139.61	121.41
1	E	123	ASN	C-N-CA	9.29	139.61	121.41
1	B	87	ILE	CA-C-O	9.29	132.39	120.78
1	C	137	HIS	O-C-N	9.28	129.21	121.32
1	B	147	LEU	CB-CG-CD2	-9.27	82.90	110.70
1	E	114	ASN	N-CA-C	9.26	130.53	110.80
1	C	193	MET	CB-CA-C	9.26	125.04	109.48
1	F	90	TYR	CB-CG-CD1	9.26	134.69	120.80
1	E	232	LEU	CD1-CG-CD2	-9.26	90.43	110.80
1	D	125	ASN	N-CA-CB	-9.26	94.85	110.49
1	D	214	ARG	CB-CG-CD	9.25	132.58	111.30
1	E	43	SER	CB-CA-C	9.25	128.83	110.42
1	A	153	ARG	N-CA-C	9.25	123.51	108.99
1	D	188	GLN	CA-CB-CG	9.25	132.60	114.10
1	A	225	LEU	CA-C-N	-9.24	103.88	121.63
1	A	225	LEU	C-N-CA	-9.24	103.88	121.63
1	B	188	GLN	OE1-CD-NE2	-9.24	113.36	122.60
1	C	216	VAL	CA-CB-CG1	9.24	126.11	110.40
1	A	181	THR	CA-C-O	-9.24	109.09	118.97
1	C	214	ARG	N-CA-CB	-9.23	94.66	110.17
1	C	116	GLY	CA-C-N	9.23	139.17	121.54
1	C	116	GLY	C-N-CA	9.23	139.17	121.54
1	C	186	VAL	N-CA-CB	-9.23	94.86	111.93
1	D	7	LEU	O-C-N	-9.23	110.32	122.59
1	B	3	ILE	CB-CG1-CD1	-9.22	94.43	113.80
1	C	37	ASN	CB-CG-ND2	9.22	130.24	116.40
1	B	30	PHE	CB-CA-C	-9.22	95.76	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	75	ASN	CA-CB-CG	-9.22	103.38	112.60
1	A	157	GLU	CB-CG-CD	9.22	128.28	112.60
1	D	1	ASN	CA-C-O	9.22	136.48	120.80
1	A	102	ILE	CA-CB-CG2	9.22	126.17	110.50
1	B	222	ASP	CA-CB-CG	9.21	121.81	112.60
1	D	148	GLN	CA-C-N	9.21	139.14	121.54
1	D	148	GLN	C-N-CA	9.21	139.14	121.54
1	A	235	THR	CA-C-O	9.21	136.46	120.80
1	C	159	ASP	CB-CG-OD1	-9.21	97.21	118.40
1	D	9	HIS	CB-CA-C	-9.21	92.08	110.42
1	C	46	ARG	NE-CZ-NH2	9.21	127.49	119.20
1	D	205	THR	O-C-N	-9.21	110.34	122.59
1	F	153	ARG	N-CA-C	9.21	124.71	109.06
1	D	29	ARG	NE-CZ-NH2	9.21	127.48	119.20
1	F	30	PHE	CB-CA-C	-9.21	100.02	111.43
1	F	144	THR	N-CA-CB	9.20	126.04	110.49
1	C	148	GLN	CA-C-O	-9.20	108.97	120.20
1	C	2	ASN	N-CA-C	-9.20	99.83	114.09
1	A	48	TRP	CZ3-CH2-CZ2	9.20	133.46	121.50
1	A	93	VAL	N-CA-C	9.20	122.85	108.87
1	C	99	THR	O-C-N	-9.20	104.78	121.70
1	D	223	ARG	CD-NE-CZ	-9.20	111.53	124.40
1	B	91	VAL	CA-C-N	9.19	136.75	123.14
1	B	91	VAL	C-N-CA	9.19	136.75	123.14
1	A	70	ILE	O-C-N	-9.19	109.82	122.59
1	C	57	GLY	CA-C-N	-9.19	103.60	122.07
1	C	57	GLY	C-N-CA	-9.19	103.60	122.07
1	D	22	SER	CA-C-O	-9.19	111.40	121.23
1	F	90	TYR	CD1-CG-CD2	-9.18	104.33	118.10
1	B	127	ILE	CA-C-N	9.18	141.09	121.45
1	B	127	ILE	C-N-CA	9.18	141.09	121.45
1	E	161	ASN	CB-CG-OD1	-9.18	102.45	120.80
1	A	25	LEU	N-CA-C	-9.17	95.05	109.72
1	A	223	ARG	O-C-N	-9.17	110.39	122.40
1	B	187	LEU	N-CA-CB	9.17	124.97	110.57
1	E	119	VAL	O-C-N	-9.17	111.11	122.57
1	A	41	PHE	O-C-N	9.16	134.42	123.33
1	A	167	ARG	CA-C-O	-9.16	107.41	120.51
1	E	230	GLY	N-CA-C	-9.16	95.04	111.16
1	B	131	THR	OG1-CB-CG2	-9.15	91.01	109.30
1	B	228	TYR	CB-CG-CD1	9.14	134.52	120.80
1	E	204	TRP	O-C-N	9.14	133.66	123.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	154	LEU	CA-C-O	-9.14	111.34	121.58
1	F	37	ASN	CA-C-N	-9.14	108.66	122.74
1	F	37	ASN	C-N-CA	-9.14	108.66	122.74
1	A	53	ALA	N-CA-C	9.14	123.97	110.17
1	C	131	THR	OG1-CB-CG2	-9.13	91.03	109.30
1	C	158	THR	CA-CB-OG1	9.13	123.30	109.60
1	D	4	LEU	CB-CA-C	-9.13	95.51	111.22
1	E	157	GLU	CA-CB-CG	-9.13	95.83	114.10
1	A	23	LEU	CA-C-O	-9.13	110.43	120.38
1	A	69	VAL	CA-C-N	9.13	134.27	122.95
1	A	69	VAL	C-N-CA	9.13	134.27	122.95
1	A	195	VAL	CA-CB-CG1	-9.12	94.89	110.40
1	B	74	GLN	N-CA-C	9.12	124.01	113.15
1	C	36	CYS	N-CA-C	9.12	130.22	110.80
1	D	46	ARG	N-CA-CB	-9.11	95.16	109.19
1	C	125	ASN	CB-CA-C	-9.11	92.30	110.42
1	D	148	GLN	CB-CA-C	9.11	126.18	109.70
1	F	10	GLU	O-C-N	9.11	131.57	122.19
1	F	152	TYR	CB-CA-C	-9.11	91.98	109.37
1	A	188	GLN	CG-CD-OE1	-9.10	102.59	120.80
1	B	232	LEU	CA-C-O	9.10	133.53	120.51
1	A	129	TYR	CD1-CG-CD2	-9.10	104.45	118.10
1	D	42	ASP	N-CA-CB	9.10	125.57	110.47
1	F	90	TYR	CG-CD2-CE2	9.09	134.84	121.20
1	E	234	THR	CA-C-O	-9.09	107.51	120.51
1	F	100	VAL	CG1-CB-CG2	-9.09	90.81	110.80
1	C	224	ASN	CB-CG-ND2	-9.09	102.77	116.40
1	D	39	VAL	CB-CA-C	-9.09	94.49	111.30
1	F	43	SER	O-C-N	-9.08	110.51	122.59
1	A	134	ASN	CB-CG-ND2	9.08	130.02	116.40
1	A	228	TYR	CB-CG-CD2	9.08	134.42	120.80
1	D	145	GLN	CA-C-O	9.08	131.04	120.69
1	A	72	THR	CA-C-O	-9.08	110.47	121.36
1	F	59	ARG	CA-C-O	9.08	131.59	121.06
1	F	202	ALA	CA-C-O	9.08	131.56	121.39
1	B	109	ASP	CB-CG-OD2	-9.07	97.54	118.40
1	E	58	CYS	O-C-N	-9.07	110.95	122.20
1	B	197	THR	CA-C-O	9.06	131.04	119.98
1	D	210	ARG	O-C-N	9.06	134.65	122.59
1	A	48	TRP	O-C-N	9.06	134.93	123.15
1	A	70	ILE	CA-CB-CG2	9.06	125.90	110.50
1	F	149	LEU	O-C-N	9.06	134.64	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	184	ARG	N-CA-CB	9.06	125.60	111.56
1	B	65	ASP	CB-CG-OD2	9.05	139.22	118.40
1	F	166	ASP	CB-CG-OD1	9.05	139.22	118.40
1	C	146	SER	N-CA-C	9.05	130.07	110.80
1	E	222	ASP	CA-CB-CG	9.05	121.65	112.60
1	D	45	VAL	CA-C-O	9.04	132.09	120.78
1	D	178	GLY	CA-C-N	9.04	138.81	121.54
1	D	178	GLY	C-N-CA	9.04	138.81	121.54
1	D	179	LYS	CA-C-O	-9.04	107.58	120.51
1	F	167	ARG	CD-NE-CZ	9.04	137.06	124.40
1	A	127	ILE	CA-CB-CG2	-9.04	95.13	110.50
1	C	33	GLN	O-C-N	9.04	133.68	122.65
1	F	25	LEU	CB-CA-C	-9.04	96.04	111.41
1	E	93	VAL	CA-CB-CG1	9.04	125.77	110.40
1	B	33	GLN	N-CA-CB	9.04	124.16	110.42
1	D	26	SER	N-CA-C	9.04	123.61	110.42
1	F	176	THR	CA-CB-CG2	-9.04	95.14	110.50
1	A	36	CYS	N-CA-CB	9.03	126.60	112.78
1	C	119	VAL	CA-C-N	9.03	138.23	121.97
1	C	119	VAL	C-N-CA	9.03	138.23	121.97
1	A	198	ASN	CA-C-O	9.03	133.42	120.51
1	B	214	ARG	CG-CD-NE	9.03	131.86	112.00
1	A	78	ARG	CD-NE-CZ	-9.02	111.77	124.40
1	C	43	SER	CB-CA-C	9.02	128.38	110.42
1	D	221	PRO	CA-C-N	9.02	138.64	122.31
1	D	221	PRO	C-N-CA	9.02	138.64	122.31
1	A	77	ILE	N-CA-C	9.02	128.10	109.34
1	C	90	TYR	N-CA-CB	-9.02	97.52	111.05
1	B	209	SER	N-CA-CB	-9.01	94.65	110.87
1	C	158	THR	CA-CB-CG2	-9.01	95.18	110.50
1	D	46	ARG	CA-C-O	-9.01	112.41	120.88
1	D	52	THR	CA-CB-CG2	9.01	125.81	110.50
1	D	130	SER	CB-CA-C	9.01	128.34	110.42
1	D	66	GLY	O-C-N	-9.00	114.38	122.57
1	A	185	ALA	CA-C-O	9.00	131.59	120.25
1	A	192	ARG	CB-CG-CD	9.00	132.00	111.30
1	D	208	ASN	CA-CB-CG	-9.00	103.60	112.60
1	E	217	PHE	CB-CG-CD2	9.00	136.00	120.70
1	C	96	PRO	CA-C-N	9.00	137.39	122.54
1	C	96	PRO	C-N-CA	9.00	137.39	122.54
1	C	33	GLN	CG-CD-NE2	-8.99	102.91	116.40
1	C	92	LEU	CA-C-O	-8.99	110.63	120.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	142	HIS	CB-CA-C	-8.99	104.12	117.07
1	E	142	HIS	N-CA-CB	-8.99	95.23	110.33
1	C	215	TYR	CB-CG-CD2	8.98	134.28	120.80
1	F	34	SER	CA-C-O	-8.98	108.41	119.28
1	B	73	ALA	N-CA-C	-8.98	91.67	110.80
1	C	28	PHE	CG-CD1-CE1	8.98	135.97	120.70
1	C	146	SER	CA-C-N	8.98	138.69	121.54
1	C	146	SER	C-N-CA	8.98	138.69	121.54
1	E	145	GLN	N-CA-C	-8.98	92.80	108.69
1	C	40	LEU	CD1-CG-CD2	-8.98	91.05	110.80
1	D	62	LEU	N-CA-CB	8.98	124.90	110.90
1	F	52	THR	O-C-N	-8.98	107.17	121.53
1	C	190	ASN	CB-CA-C	8.97	123.99	109.27
1	A	3	ILE	O-C-N	-8.97	111.36	122.57
1	B	200	ASN	N-CA-C	8.97	129.90	110.80
1	D	198	ASN	O-C-N	-8.97	110.66	122.59
1	B	142	HIS	N-CA-C	8.97	128.27	114.64
1	B	229	GLY	CA-C-O	8.97	136.17	120.57
1	C	216	VAL	O-C-N	-8.96	111.36	122.57
1	D	28	PHE	CA-CB-CG	8.96	122.77	113.80
1	D	28	PHE	N-CA-CB	-8.96	95.35	110.49
1	C	205	THR	CA-CB-OG1	-8.96	96.17	109.60
1	A	17	LEU	CA-C-O	8.95	129.88	120.30
1	E	200	ASN	N-CA-CB	8.95	125.62	110.49
1	A	201	ILE	CA-C-O	8.95	131.14	120.67
1	D	154	LEU	CA-C-N	8.95	137.85	122.81
1	D	154	LEU	C-N-CA	8.95	137.85	122.81
1	C	123	ASN	N-CA-C	8.95	129.86	110.80
1	C	24	GLU	CA-C-N	8.95	135.27	121.76
1	C	24	GLU	C-N-CA	8.95	135.27	121.76
1	C	15	GLN	CG-CD-NE2	-8.95	102.98	116.40
1	B	218	VAL	N-CA-C	8.94	121.89	109.55
1	F	195	VAL	N-CA-C	-8.94	90.74	109.34
1	C	139	GLN	CA-CB-CG	8.94	131.97	114.10
1	C	139	GLN	CA-C-O	8.94	132.25	121.17
1	E	51	ASN	CB-CA-C	-8.94	96.63	112.27
1	A	205	THR	O-C-N	-8.94	112.46	123.36
1	C	162	LEU	N-CA-C	-8.94	94.75	108.96
1	B	21	GLN	N-CA-CB	8.93	125.19	110.63
1	F	201	ILE	CA-CB-CG2	-8.93	95.32	110.50
1	A	9	HIS	CE1-NE2-CD2	-8.92	100.08	109.00
1	F	93	VAL	N-CA-C	8.92	121.66	108.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	112	THR	CA-C-O	-8.92	108.19	122.20
1	C	200	ASN	O-C-N	-8.92	110.73	122.59
1	A	94	LEU	CA-CB-CG	8.90	147.47	116.30
1	A	187	LEU	CB-CA-C	-8.90	94.32	109.72
1	F	23	LEU	N-CA-CB	-8.90	96.12	110.63
1	F	141	LEU	O-C-N	-8.90	112.50	123.36
1	B	50	SER	O-C-N	-8.89	110.51	122.43
1	A	31	THR	O-C-N	-8.89	112.90	123.13
1	E	209	SER	N-CA-C	-8.89	91.86	110.80
1	C	40	LEU	CA-C-O	8.89	130.83	120.70
1	A	187	LEU	CA-CB-CG	8.89	147.40	116.30
1	F	23	LEU	CA-C-O	-8.88	110.80	121.28
1	A	53	ALA	CA-C-O	8.88	133.43	121.88
1	D	154	LEU	O-C-N	-8.88	111.46	123.01
1	E	5	PHE	CB-CA-C	8.88	126.33	109.37
1	E	219	LEU	CA-C-O	8.88	130.57	120.98
1	B	131	THR	N-CA-CB	8.88	125.49	110.49
1	A	108	TRP	CG-CD2-CE3	-8.87	125.03	133.90
1	B	55	ALA	N-CA-CB	-8.87	97.68	110.45
1	D	147	LEU	O-C-N	-8.87	110.80	122.59
1	B	103	TYR	N-CA-CB	8.86	124.38	110.56
1	B	139	GLN	CA-C-O	-8.86	109.02	119.48
1	F	174	THR	CA-C-O	8.86	128.61	118.77
1	D	17	LEU	CB-CA-C	8.86	124.36	109.48
1	D	144	THR	N-CA-C	-8.86	91.93	110.80
1	A	86	SER	N-CA-C	8.86	129.67	110.80
1	A	102	ILE	CB-CA-C	8.86	123.11	110.98
1	A	149	LEU	N-CA-CB	8.86	125.46	110.49
1	F	37	ASN	O-C-N	8.86	133.04	123.03
1	E	209	SER	CA-C-N	8.85	138.45	121.54
1	E	209	SER	C-N-CA	8.85	138.45	121.54
1	B	13	HIS	CB-CG-CD2	-8.85	119.69	131.20
1	D	128	LEU	N-CA-C	-8.85	102.39	113.01
1	B	226	ALA	O-C-N	8.84	134.35	122.59
1	E	69	VAL	CB-CA-C	-8.84	99.00	111.38
1	F	98	ARG	NH1-CZ-NH2	8.84	130.80	119.30
1	E	42	ASP	N-CA-C	-8.84	92.28	108.02
1	B	158	THR	CB-CA-C	-8.84	97.35	110.96
1	C	69	VAL	CA-CB-CG1	-8.84	95.38	110.40
1	F	175	ASN	N-CA-CB	8.84	125.42	110.49
1	D	167	ARG	CA-C-N	8.84	138.41	121.54
1	D	167	ARG	C-N-CA	8.84	138.41	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	48	TRP	CB-CG-CD1	-8.83	113.65	126.90
1	A	65	ASP	CA-C-O	8.83	129.33	120.32
1	F	110	SER	O-C-N	8.83	133.13	122.27
1	B	23	LEU	N-CA-C	-8.82	95.02	109.40
1	A	74	GLN	CB-CA-C	-8.82	97.42	111.18
1	C	200	ASN	CA-C-N	8.82	136.20	122.70
1	C	200	ASN	C-N-CA	8.82	136.20	122.70
1	D	73	ALA	N-CA-CB	8.82	126.38	110.32
1	F	77	ILE	O-C-N	-8.82	111.54	122.57
1	C	26	SER	CA-C-O	-8.82	107.90	120.51
1	D	24	GLU	N-CA-CB	-8.82	96.72	110.65
1	B	148	GLN	CG-CD-NE2	-8.81	103.18	116.40
1	D	2	ASN	CA-C-N	8.81	134.47	123.10
1	D	2	ASN	C-N-CA	8.81	134.47	123.10
1	E	201	ILE	CA-C-N	-8.81	110.84	123.00
1	E	201	ILE	C-N-CA	-8.81	110.84	123.00
1	B	31	THR	CB-CA-C	-8.81	91.73	109.79
1	D	137	HIS	CB-CG-CD2	8.81	142.65	131.20
1	E	1	ASN	CB-CA-C	8.81	126.83	110.10
1	F	30	PHE	O-C-N	-8.81	114.64	123.62
1	B	142	HIS	O-C-N	-8.81	112.60	121.93
1	C	10	GLU	CB-CA-C	8.81	127.94	110.42
1	D	72	THR	N-CA-C	8.80	121.10	110.19
1	D	78	ARG	CA-C-N	-8.80	106.45	121.94
1	D	78	ARG	C-N-CA	-8.80	106.45	121.94
1	B	140	THR	CA-C-O	-8.80	111.86	121.28
1	A	180	GLY	CA-C-N	-8.79	107.69	122.11
1	A	180	GLY	C-N-CA	-8.79	107.69	122.11
1	C	214	ARG	CA-C-N	8.79	139.54	123.27
1	C	214	ARG	C-N-CA	8.79	139.54	123.27
1	E	26	SER	CA-C-O	-8.79	107.94	120.51
1	F	125	ASN	N-CA-CB	-8.79	95.63	110.49
1	F	235	THR	CA-CB-OG1	8.79	122.79	109.60
1	A	131	THR	CA-C-O	8.79	135.74	120.80
1	A	188	GLN	CA-C-N	8.79	128.43	119.82
1	A	188	GLN	C-N-CA	8.79	128.43	119.82
1	D	123	ASN	CA-C-N	8.79	138.63	121.41
1	D	123	ASN	C-N-CA	8.79	138.63	121.41
1	C	234	THR	N-CA-C	8.79	119.52	108.45
1	D	193	MET	N-CA-CB	8.79	123.57	109.95
1	A	55	ALA	CB-CA-C	8.78	133.13	113.02
1	A	183	CYS	N-CA-C	8.78	121.66	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	206	SER	CA-CB-OG	8.78	128.66	111.10
1	C	5	PHE	CA-C-O	8.78	133.29	121.88
1	E	49	ALA	N-CA-CB	8.78	125.32	110.49
1	A	125	ASN	OD1-CG-ND2	8.78	131.38	122.60
1	E	8	SER	N-CA-CB	8.78	124.64	110.16
1	C	207	GLY	N-CA-C	8.77	133.97	113.18
1	E	79	TRP	O-C-N	8.77	134.26	122.59
1	E	190	ASN	CA-C-N	8.77	138.60	121.41
1	E	190	ASN	C-N-CA	8.77	138.60	121.41
1	F	157	GLU	CA-C-O	-8.77	110.96	121.66
1	F	234	THR	CA-C-O	-8.77	110.93	120.75
1	B	70	ILE	O-C-N	-8.77	113.73	123.20
1	A	152	TYR	CB-CG-CD2	8.76	133.94	120.80
1	D	218	VAL	CA-CB-CG2	8.76	125.30	110.40
1	B	2	ASN	CB-CA-C	-8.76	96.83	111.02
1	C	147	LEU	O-C-N	8.76	134.24	122.59
1	A	208	ASN	CB-CG-ND2	8.76	129.53	116.40
1	A	229	GLY	O-C-N	-8.76	111.32	122.70
1	D	10	GLU	CA-C-N	-8.76	104.24	121.41
1	D	10	GLU	C-N-CA	-8.76	104.24	121.41
1	E	49	ALA	CA-C-N	8.76	131.82	120.44
1	B	144	THR	CA-CB-OG1	8.76	122.73	109.60
1	C	64	SER	N-CA-CB	-8.76	96.13	110.40
1	E	49	ALA	C-N-CA	8.76	131.82	120.44
1	E	156	MET	CG-SD-CE	8.76	120.16	100.90
1	A	138	PRO	CA-CB-CG	-8.75	87.87	104.50
1	E	35	ASP	CA-C-N	8.75	138.26	121.54
1	E	35	ASP	C-N-CA	8.75	138.26	121.54
1	C	72	THR	CA-C-N	-8.75	104.82	121.54
1	C	72	THR	C-N-CA	-8.75	104.82	121.54
1	C	188	GLN	CG-CD-NE2	-8.75	103.27	116.40
1	A	150	SER	N-CA-CB	8.75	125.95	110.37
1	D	76	THR	OG1-CB-CG2	-8.75	91.80	109.30
1	E	110	SER	CB-CA-C	-8.75	96.09	110.79
1	F	148	GLN	CA-C-O	-8.75	110.60	120.66
1	C	174	THR	N-CA-CB	8.74	122.98	110.12
1	C	172	TRP	CH2-CZ2-CE2	8.74	128.87	117.50
1	D	21	GLN	CB-CA-C	8.74	127.13	109.38
1	D	208	ASN	CA-C-O	8.74	130.51	120.89
1	E	122	ASN	O-C-N	-8.74	110.96	122.59
1	C	46	ARG	CA-C-O	-8.74	108.02	120.51
1	F	214	ARG	CA-CB-CG	8.73	131.57	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	178	GLY	O-C-N	-8.73	111.35	122.70
1	C	146	SER	CB-CA-C	-8.72	93.06	110.42
1	D	139	GLN	CA-CB-CG	8.72	131.55	114.10
1	F	144	THR	CA-CB-CG2	8.72	125.33	110.50
1	D	6	GLY	N-CA-C	-8.72	95.78	110.95
1	F	74	GLN	CB-CA-C	-8.72	97.09	111.13
1	D	52	THR	CA-C-O	-8.72	109.40	119.78
1	F	142	HIS	CE1-NE2-CD2	8.72	117.72	109.00
1	A	179	LYS	N-CA-C	-8.72	99.38	112.54
1	F	59	ARG	NE-CZ-NH1	8.72	130.22	121.50
1	F	187	LEU	CA-CB-CG	8.72	146.81	116.30
1	D	77	ILE	N-CA-CB	-8.71	96.86	111.23
1	A	129	TYR	CB-CG-CD2	8.70	133.85	120.80
1	B	41	PHE	N-CA-CB	-8.71	97.22	110.45
1	C	44	ASP	CA-C-O	-8.71	111.64	121.39
1	F	212	ALA	CA-C-O	-8.71	110.70	120.54
1	A	62	LEU	CA-CB-CG	8.70	146.76	116.30
1	C	76	THR	N-CA-C	8.70	121.47	109.11
1	C	153	ARG	N-CA-C	8.70	122.51	108.76
1	D	14	PRO	CB-CA-C	-8.70	97.21	111.56
1	F	92	LEU	N-CA-CB	8.70	124.23	110.57
1	B	141	LEU	CD1-CG-CD2	-8.69	91.67	110.80
1	E	52	THR	CB-CA-C	-8.69	99.07	111.85
1	C	104	GLY	O-C-N	-8.69	113.08	121.77
1	A	22	SER	CA-CB-OG	8.69	128.48	111.10
1	A	175	ASN	CA-C-N	-8.69	110.36	122.87
1	A	175	ASN	C-N-CA	-8.69	110.36	122.87
1	C	142	HIS	CB-CA-C	-8.69	104.56	117.07
1	F	48	TRP	O-C-N	8.69	133.35	123.27
1	D	104	GLY	CA-C-O	-8.69	109.10	121.52
1	F	171	VAL	CA-C-O	8.69	126.58	119.29
1	B	57	GLY	CA-C-N	8.68	136.41	120.95
1	B	57	GLY	C-N-CA	8.68	136.41	120.95
1	B	78	ARG	NE-CZ-NH2	8.68	127.01	119.20
1	D	137	HIS	N-CA-CB	8.68	123.49	111.25
1	C	36	CYS	CA-C-O	-8.68	108.10	120.51
1	B	18	HIS	O-C-N	-8.68	111.05	122.59
1	B	71	LEU	CB-CG-CD1	-8.68	84.68	110.70
1	F	21	GLN	O-C-N	8.67	133.07	123.10
1	B	217	PHE	N-CA-CB	-8.67	95.84	110.49
1	F	9	HIS	CA-C-O	8.67	132.90	120.51
1	B	125	ASN	N-CA-C	8.66	129.26	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	143	ALA	CA-C-N	-8.66	110.26	122.74
1	C	143	ALA	C-N-CA	-8.66	110.26	122.74
1	A	69	VAL	N-CA-CB	8.66	124.17	111.52
1	D	67	LEU	CA-C-O	-8.66	110.73	120.43
1	A	176	THR	N-CA-CB	-8.66	90.87	111.74
1	F	16	THR	CA-CB-CG2	-8.66	95.78	110.50
1	E	6	GLY	O-C-N	8.66	133.96	122.70
1	B	74	GLN	CA-C-O	8.65	132.55	119.23
1	D	84	LYS	CA-C-N	-8.65	111.53	121.83
1	D	84	LYS	C-N-CA	-8.65	111.53	121.83
1	E	208	ASN	CA-C-O	-8.65	110.69	121.50
1	E	122	ASN	OD1-CG-ND2	-8.64	113.95	122.60
1	A	48	TRP	CE3-CZ3-CH2	-8.64	109.86	121.10
1	D	126	SER	CA-C-O	-8.64	110.99	121.36
1	F	164	LEU	CA-C-N	-8.63	108.31	122.82
1	F	164	LEU	C-N-CA	-8.63	108.31	122.82
1	F	166	ASP	O-C-N	-8.63	113.10	123.29
1	B	137	HIS	CA-C-N	-8.63	110.87	119.76
1	B	137	HIS	C-N-CA	-8.63	110.87	119.76
1	A	204	TRP	O-C-N	-8.63	113.31	123.41
1	B	201	ILE	N-CA-CB	-8.63	97.00	111.23
1	C	58	CYS	O-C-N	-8.63	113.28	122.94
1	D	32	MET	N-CA-C	-8.62	95.18	109.07
1	F	151	PRO	N-CA-C	-8.63	103.08	113.86
1	A	137	HIS	ND1-CG-CD2	8.62	114.72	106.10
1	C	46	ARG	N-CA-CB	8.62	125.06	110.49
1	C	98	ARG	CD-NE-CZ	-8.62	112.33	124.40
1	E	99	THR	N-CA-CB	-8.62	95.89	110.80
1	F	101	THR	CA-C-N	-8.62	111.99	123.10
1	F	101	THR	C-N-CA	-8.62	111.99	123.10
1	A	192	ARG	N-CA-CB	-8.61	96.83	110.87
1	B	38	LEU	N-CA-C	-8.61	96.08	109.25
1	A	8	SER	N-CA-C	8.60	123.01	110.28
1	D	140	THR	CA-C-N	8.60	135.13	123.00
1	D	140	THR	C-N-CA	8.60	135.13	123.00
1	C	205	THR	N-CA-C	8.60	123.61	109.24
1	E	129	TYR	N-CA-C	8.60	129.12	110.80
1	C	149	LEU	O-C-N	8.60	134.02	122.59
1	E	235	THR	CA-C-O	8.59	135.41	120.80
1	F	186	VAL	O-C-N	8.59	132.89	122.58
1	A	26	SER	O-C-N	-8.59	111.17	122.59
1	E	139	GLN	CG-CD-OE1	-8.59	103.62	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	10	GLU	CA-C-N	-8.59	104.58	121.41
1	C	10	GLU	C-N-CA	-8.59	104.58	121.41
1	C	152	TYR	CG-CD2-CE2	8.59	134.08	121.20
1	C	16	THR	N-CA-C	8.58	122.32	108.76
1	D	51	ASN	N-CA-CB	-8.58	99.05	111.84
1	D	139	GLN	CG-CD-NE2	-8.58	103.53	116.40
1	E	145	GLN	O-C-N	8.58	133.83	123.36
1	D	181	THR	N-CA-CB	-8.58	95.99	110.49
1	C	112	THR	CA-CB-OG1	-8.58	96.74	109.60
1	C	184	ARG	CA-CB-CG	-8.58	96.95	114.10
1	F	142	HIS	CB-CA-C	-8.58	99.56	113.37
1	C	36	CYS	CB-CA-C	-8.57	93.36	110.42
1	F	97	ASP	N-CA-CB	-8.57	97.20	110.92
1	C	72	THR	OG1-CB-CG2	-8.57	92.16	109.30
1	B	220	GLN	OE1-CD-NE2	-8.57	114.03	122.60
1	C	71	LEU	CA-C-O	8.57	131.49	121.46
1	D	2	ASN	O-C-N	-8.57	111.72	122.26
1	F	152	TYR	CB-CG-CD1	-8.57	107.95	120.80
1	C	38	LEU	CD1-CG-CD2	-8.57	91.95	110.80
1	D	230	GLY	CA-C-N	8.57	136.42	122.29
1	D	230	GLY	C-N-CA	8.57	136.42	122.29
1	D	234	THR	OG1-CB-CG2	-8.56	92.18	109.30
1	F	26	SER	CA-C-O	8.56	132.75	120.51
1	A	68	LEU	O-C-N	-8.56	113.17	123.27
1	D	109	ASP	CB-CG-OD1	-8.56	98.71	118.40
1	B	216	VAL	CA-C-O	8.56	131.47	120.78
1	C	36	CYS	O-C-N	8.55	133.97	122.59
1	D	44	ASP	O-C-N	-8.55	111.21	122.59
1	F	137	HIS	CB-CA-C	-8.55	95.61	108.87
1	B	48	TRP	CB-CA-C	-8.55	93.44	113.02
1	C	199	GLN	CB-CG-CD	-8.55	98.06	112.60
1	E	56	THR	N-CA-CB	8.55	126.61	111.13
1	C	14	PRO	CA-C-N	-8.55	108.97	122.65
1	C	14	PRO	C-N-CA	-8.55	108.97	122.65
1	D	98	ARG	CA-C-N	-8.55	109.44	122.09
1	D	98	ARG	C-N-CA	-8.55	109.44	122.09
1	D	141	LEU	N-CA-CB	-8.55	97.32	110.65
1	A	169	ASP	CA-C-O	-8.54	110.35	120.60
1	D	69	VAL	CG1-CB-CG2	-8.54	92.01	110.80
1	E	92	LEU	N-CA-CB	8.54	124.36	110.43
1	A	214	ARG	CB-CG-CD	8.54	130.94	111.30
1	A	59	ARG	N-CA-C	-8.54	96.36	109.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	210	ARG	NE-CZ-NH2	-8.54	111.52	119.20
1	A	204	TRP	CB-CG-CD2	8.53	138.75	126.80
1	D	55	ALA	O-C-N	-8.53	114.17	123.04
1	B	215	TYR	CB-CG-CD1	8.53	133.59	120.80
1	B	130	SER	CB-CA-C	8.53	127.39	110.42
1	A	162	LEU	N-CA-CB	-8.52	96.74	109.95
1	B	147	LEU	O-C-N	8.52	133.93	122.59
1	A	104	GLY	CA-C-O	-8.52	109.33	121.52
1	A	152	TYR	O-C-N	8.52	134.75	123.07
1	D	168	ASP	N-CA-CB	8.52	124.89	110.49
1	B	160	CYS	CA-C-O	-8.52	108.33	120.51
1	A	84	LYS	CA-C-O	-8.52	112.13	121.33
1	B	231	ALA	CB-CA-C	8.51	127.36	110.42
1	D	100	VAL	CA-CB-CG2	8.51	124.87	110.40
1	B	111	GLY	CA-C-N	8.51	137.79	121.54
1	B	111	GLY	C-N-CA	8.51	137.79	121.54
1	E	81	SER	O-C-N	8.50	133.90	122.59
1	D	153	ARG	NE-CZ-NH2	-8.50	111.55	119.20
1	F	223	ARG	CG-CD-NE	8.50	130.70	112.00
1	C	50	SER	O-C-N	-8.50	111.28	122.59
1	A	53	ALA	CA-C-N	8.50	138.07	121.41
1	A	53	ALA	C-N-CA	8.50	138.07	121.41
1	C	146	SER	N-CA-CB	-8.50	96.13	110.49
1	A	193	MET	CG-SD-CE	-8.49	82.22	100.90
1	E	28	PHE	N-CA-CB	-8.49	96.15	110.16
1	B	162	LEU	CD1-CG-CD2	-8.49	92.13	110.80
1	B	147	LEU	CD1-CG-CD2	-8.48	92.14	110.80
1	B	209	SER	CB-CA-C	-8.48	93.08	113.19
1	B	13	HIS	CB-CA-C	-8.48	100.76	110.17
1	B	74	GLN	CB-CA-C	-8.48	94.67	110.36
1	B	109	ASP	CA-C-O	-8.48	111.12	121.89
1	F	15	GLN	O-C-N	-8.48	112.43	122.27
1	B	46	ARG	CD-NE-CZ	8.48	136.27	124.40
1	E	67	LEU	O-C-N	8.48	132.55	123.06
1	A	102	ILE	N-CA-CB	-8.47	101.30	111.21
1	D	70	ILE	O-C-N	-8.47	114.22	123.20
1	E	100	VAL	CA-CB-CG1	-8.47	96.00	110.40
1	B	203	VAL	N-CA-C	-8.47	91.73	109.34
1	C	41	PHE	CE1-CZ-CE2	8.47	135.24	120.00
1	B	191	GLY	O-C-N	8.46	133.71	122.70
1	D	99	THR	CA-C-N	8.47	133.10	122.43
1	D	99	THR	C-N-CA	8.47	133.10	122.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	5	PHE	CA-C-N	8.46	138.00	121.41
1	F	5	PHE	C-N-CA	8.46	138.00	121.41
1	C	62	LEU	CD1-CG-CD2	-8.46	92.19	110.80
1	D	187	LEU	CA-C-O	-8.46	111.16	120.38
1	F	77	ILE	CA-CB-CG1	8.46	124.78	110.40
1	B	139	GLN	O-C-N	8.46	132.42	122.19
1	A	206	SER	CA-CB-OG	8.45	128.00	111.10
1	C	79	TRP	N-CA-CB	-8.45	98.00	111.43
1	C	152	TYR	CD1-CG-CD2	-8.45	105.43	118.10
1	C	181	THR	N-CA-C	8.45	123.92	111.34
1	A	44	ASP	N-CA-C	-8.44	92.82	110.80
1	A	198	ASN	CB-CA-C	-8.44	93.62	110.42
1	B	130	SER	O-C-N	-8.44	111.36	122.59
1	D	65	ASP	N-CA-C	-8.44	99.79	112.54
1	E	214	ARG	CA-CB-CG	8.44	130.98	114.10
1	F	70	ILE	N-CA-C	8.44	119.86	107.37
1	B	152	TYR	CE1-CZ-OH	-8.44	94.59	119.90
1	A	164	LEU	CB-CG-CD1	8.44	136.01	110.70
1	A	48	TRP	CB-CG-CD2	8.44	138.61	126.80
1	E	123	ASN	N-CA-CB	-8.44	98.13	110.87
1	A	160	CYS	O-C-N	8.43	133.81	122.59
1	C	99	THR	N-CA-CB	-8.43	92.16	110.88
1	B	40	LEU	CB-CA-C	-8.43	97.60	111.68
1	B	212	ALA	CB-CA-C	8.43	123.78	109.53
1	A	89	ASN	N-CA-CB	-8.43	96.01	110.17
1	E	77	ILE	O-C-N	-8.43	113.43	122.45
1	E	119	VAL	CA-C-N	8.43	137.14	121.97
1	E	119	VAL	C-N-CA	8.43	137.14	121.97
1	B	85	GLY	O-C-N	-8.42	113.28	122.97
1	D	101	THR	OG1-CB-CG2	8.42	126.15	109.30
1	F	55	ALA	N-CA-CB	-8.42	96.26	110.49
1	B	41	PHE	O-C-N	-8.42	113.25	122.85
1	E	221	PRO	O-C-N	8.42	134.00	122.64
1	A	40	LEU	CB-CA-C	-8.41	95.35	109.48
1	E	56	THR	CA-CB-CG2	-8.41	96.20	110.50
1	D	69	VAL	CA-C-N	8.41	134.29	123.10
1	D	69	VAL	C-N-CA	8.41	134.29	123.10
1	E	12	SER	O-C-N	8.41	133.77	122.59
1	C	52	THR	CA-CB-CG2	8.41	124.79	110.50
1	E	98	ARG	CG-CD-NE	-8.41	93.50	112.00
1	F	2	ASN	CB-CA-C	-8.40	86.86	110.14
1	C	103	TYR	CA-C-O	-8.40	111.00	120.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	185	ALA	O-C-N	8.40	133.01	123.27
1	F	76	THR	CA-CB-CG2	8.40	124.78	110.50
1	B	233	TRP	CD2-CE2-CZ2	8.40	130.80	122.40
1	C	29	ARG	NE-CZ-NH2	8.40	126.76	119.20
1	C	170	ARG	CB-CG-CD	8.40	130.61	111.30
1	E	152	TYR	N-CA-C	-8.40	96.22	109.23
1	A	59	ARG	O-C-N	8.39	134.36	123.11
1	D	36	CYS	N-CA-CB	8.39	130.09	113.89
1	C	8	SER	N-CA-C	8.39	121.92	108.41
1	D	187	LEU	CB-CA-C	-8.39	95.20	109.72
1	D	205	THR	CA-C-O	8.39	132.51	120.51
1	A	121	ALA	CB-CA-C	8.39	124.53	111.02
1	B	83	THR	CA-C-N	8.39	136.42	122.33
1	B	83	THR	C-N-CA	8.39	136.42	122.33
1	D	144	THR	CA-C-N	8.39	133.50	121.50
1	D	144	THR	C-N-CA	8.39	133.50	121.50
1	D	146	SER	N-CA-CB	-8.39	97.92	111.01
1	E	166	ASP	O-C-N	-8.39	113.66	123.22
1	B	26	SER	CA-C-O	8.38	132.50	120.51
1	E	219	LEU	CB-CA-C	-8.39	96.88	111.05
1	E	90	TYR	CA-C-O	-8.38	111.36	120.75
1	F	139	GLN	CG-CD-NE2	-8.38	103.83	116.40
1	A	122	ASN	CA-C-N	8.38	136.86	122.12
1	A	122	ASN	C-N-CA	8.38	136.86	122.12
1	E	127	ILE	CA-C-O	8.38	129.49	120.53
1	D	178	GLY	CA-C-O	8.37	135.14	120.57
1	A	145	GLN	CG-CD-OE1	-8.37	104.06	120.80
1	B	197	THR	CB-CA-C	-8.37	98.63	110.34
1	A	138	PRO	CB-CA-C	-8.37	97.76	111.56
1	C	136	ASN	CA-C-O	8.37	135.02	120.80
1	F	68	LEU	CD1-CG-CD2	8.36	129.20	110.80
1	A	159	ASP	OD1-CG-OD2	-8.36	102.83	122.90
1	A	66	GLY	CA-C-N	-8.36	107.77	122.07
1	A	66	GLY	C-N-CA	-8.36	107.77	122.07
1	C	190	ASN	CA-CB-CG	8.36	120.96	112.60
1	F	225	LEU	CB-CA-C	-8.36	93.79	110.42
1	D	177	ALA	N-CA-C	-8.36	93.00	110.80
1	E	136	ASN	O-C-N	-8.36	109.63	123.00
1	F	226	ALA	CB-CA-C	8.35	125.44	110.16
1	B	84	LYS	CA-C-N	8.35	137.81	122.70
1	B	84	LYS	C-N-CA	8.35	137.81	122.70
1	A	199	GLN	CA-C-N	8.35	137.48	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	199	GLN	C-N-CA	8.35	137.48	121.54
1	C	132	GLN	CB-CA-C	8.35	125.80	111.86
1	F	14	PRO	N-CA-CB	8.35	112.01	103.25
1	F	184	ARG	CB-CA-C	-8.34	96.50	112.43
1	E	35	ASP	CB-CA-C	-8.34	99.73	112.07
1	A	114	ASN	CB-CG-ND2	8.34	128.91	116.40
1	F	46	ARG	NH1-CZ-NH2	-8.34	108.46	119.30
1	F	100	VAL	O-C-N	-8.34	113.44	122.95
1	D	224	ASN	CA-C-N	-8.34	111.50	123.00
1	D	224	ASN	C-N-CA	-8.34	111.50	123.00
1	E	29	ARG	CG-CD-NE	8.34	130.34	112.00
1	E	43	SER	O-C-N	-8.33	111.51	122.59
1	E	161	ASN	O-C-N	8.33	133.66	123.16
1	E	91	VAL	O-C-N	-8.33	113.80	123.05
1	A	3	ILE	CA-C-O	8.33	131.19	120.78
1	A	9	HIS	ND1-CG-CD2	-8.33	97.77	106.10
1	B	9	HIS	CG-CD2-NE2	8.33	115.53	107.20
1	C	18	HIS	CG-CD2-NE2	8.32	115.52	107.20
1	B	152	TYR	CB-CG-CD1	-8.32	108.32	120.80
1	B	78	ARG	CB-CA-C	8.32	122.11	109.13
1	D	162	LEU	N-CA-CB	-8.31	96.99	110.21
1	F	72	THR	CA-C-O	-8.31	112.17	121.89
1	C	176	THR	CA-CB-OG1	8.31	122.06	109.60
1	B	109	ASP	CB-CG-OD1	-8.31	99.29	118.40
1	D	20	ALA	N-CA-CB	-8.31	100.80	110.35
1	D	86	SER	CA-C-O	-8.31	108.63	120.51
1	D	74	GLN	CG-CD-NE2	8.30	128.85	116.40
1	F	129	TYR	N-CA-C	8.30	128.49	110.80
1	F	60	ALA	CB-CA-C	8.30	125.79	110.11
1	F	193	MET	N-CA-C	-8.30	96.57	109.76
1	C	126	SER	O-C-N	8.30	133.93	123.15
1	F	105	PRO	N-CA-C	8.29	133.67	112.10
1	D	87	ILE	O-C-N	8.29	132.94	122.57
1	A	39	VAL	CA-CB-CG1	8.29	124.49	110.40
1	D	56	THR	CB-CA-C	-8.28	93.28	109.68
1	E	105	PRO	CB-CA-C	-8.28	97.89	111.56
1	F	155	SER	N-CA-C	8.28	122.72	110.46
1	E	16	THR	CA-C-O	-8.28	111.72	120.99
1	D	174	THR	N-CA-CB	8.27	124.47	110.49
1	E	223	ARG	CA-CB-CG	8.27	130.65	114.10
1	F	180	GLY	CA-C-O	-8.27	103.43	120.80
1	E	121	ALA	CA-C-O	8.27	132.34	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	220	GLN	CA-CB-CG	-8.27	97.56	114.10
1	A	158	THR	N-CA-C	8.27	122.46	112.38
1	C	91	VAL	O-C-N	-8.27	114.26	123.10
1	E	168	ASP	N-CA-CB	8.27	124.46	110.49
1	A	69	VAL	CB-CA-C	-8.26	98.27	110.33
1	B	1	ASN	N-CA-C	-8.26	87.86	111.00
1	F	67	LEU	N-CA-CB	8.26	122.85	110.29
1	B	200	ASN	CB-CG-ND2	-8.26	104.01	116.40
1	B	202	ALA	CA-C-N	8.26	136.84	121.97
1	B	202	ALA	C-N-CA	8.26	136.84	121.97
1	C	200	ASN	CB-CG-OD1	-8.26	104.28	120.80
1	F	166	ASP	CB-CA-C	8.26	124.00	109.72
1	E	217	PHE	CA-C-N	-8.25	111.52	122.99
1	A	2	ASN	N-CA-CB	-8.25	96.54	110.49
1	D	163	VAL	CG1-CB-CG2	8.25	128.96	110.80
1	E	217	PHE	C-N-CA	-8.25	111.52	122.99
1	F	15	GLN	CA-C-O	8.25	127.98	118.90
1	F	150	SER	CB-CA-C	8.25	126.42	110.17
1	C	87	ILE	CA-C-O	-8.25	110.47	120.78
1	A	26	SER	N-CA-CB	-8.25	96.55	110.49
1	C	158	THR	N-CA-C	-8.24	102.44	114.39
1	D	52	THR	CA-C-N	-8.24	109.63	121.42
1	D	52	THR	C-N-CA	-8.24	109.63	121.42
1	E	38	LEU	CA-C-O	-8.24	111.29	120.69
1	E	192	ARG	NE-CZ-NH2	-8.24	111.78	119.20
1	F	34	SER	CB-CA-C	8.24	124.84	110.01
1	B	152	TYR	OH-CZ-CE2	8.24	144.62	119.90
1	C	140	THR	CA-C-O	8.24	132.29	120.51
1	B	24	GLU	CA-C-N	8.24	133.73	122.77
1	B	24	GLU	C-N-CA	8.24	133.73	122.77
1	F	38	LEU	N-CA-C	-8.24	94.84	108.76
1	D	200	ASN	CB-CA-C	8.23	124.42	111.91
1	E	81	SER	CA-C-N	-8.23	105.27	121.41
1	E	81	SER	C-N-CA	-8.23	105.27	121.41
1	E	233	TRP	CA-CB-CG	8.23	129.25	113.60
1	A	56	THR	CA-CB-OG1	8.23	121.95	109.60
1	A	192	ARG	N-CA-C	8.23	124.89	107.70
1	F	219	LEU	CA-C-N	-8.23	108.24	121.57
1	F	219	LEU	C-N-CA	-8.23	108.24	121.57
1	B	24	GLU	N-CA-C	8.23	122.55	107.99
1	B	230	GLY	CA-C-N	8.22	137.25	121.54
1	B	230	GLY	C-N-CA	8.22	137.25	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	117	SER	N-CA-C	8.22	128.32	110.80
1	D	75	ASN	CB-CA-C	-8.22	97.82	111.23
1	F	33	GLN	CG-CD-NE2	-8.22	104.06	116.40
1	F	161	ASN	O-C-N	8.22	132.38	122.84
1	C	195	VAL	N-CA-C	-8.22	93.43	107.24
1	D	125	ASN	CB-CA-C	-8.22	94.06	110.42
1	F	224	ASN	CB-CA-C	8.22	126.78	110.42
1	C	144	THR	N-CA-C	-8.22	102.56	112.58
1	F	226	ALA	CA-C-N	-8.22	111.31	122.98
1	F	226	ALA	C-N-CA	-8.22	111.31	122.98
1	B	102	ILE	CA-C-O	8.21	128.93	120.39
1	C	122	ASN	OD1-CG-ND2	-8.21	114.39	122.60
1	F	153	ARG	CD-NE-CZ	8.21	135.90	124.40
1	D	25	LEU	CB-CG-CD2	8.21	135.32	110.70
1	A	70	ILE	CB-CA-C	-8.21	100.57	111.81
1	C	39	VAL	CA-C-N	8.20	135.28	123.14
1	C	39	VAL	C-N-CA	8.20	135.28	123.14
1	D	35	ASP	CA-C-O	-8.20	110.63	120.55
1	B	89	ASN	O-C-N	-8.20	113.09	122.93
1	C	146	SER	O-C-N	8.20	133.50	122.59
1	D	65	ASP	CB-CG-OD2	-8.20	99.54	118.40
1	D	129	TYR	CZ-CE2-CD2	-8.20	104.84	119.60
1	E	177	ALA	CA-C-O	8.20	130.71	121.11
1	F	124	GLY	CA-C-O	8.20	138.02	120.80
1	A	129	TYR	N-CA-CB	8.19	124.34	110.49
1	B	213	GLY	CA-C-O	8.19	131.74	122.15
1	B	39	VAL	O-C-N	-8.19	114.43	123.03
1	C	25	LEU	CA-C-N	8.19	137.19	121.54
1	C	25	LEU	C-N-CA	8.19	137.19	121.54
1	C	143	ALA	CA-C-O	-8.19	111.24	120.66
1	E	193	MET	CB-CG-SD	-8.19	88.13	112.70
1	B	213	GLY	O-C-N	-8.18	109.49	122.91
1	C	228	TYR	CA-C-N	8.18	137.45	121.41
1	C	228	TYR	C-N-CA	8.18	137.45	121.41
1	D	55	ALA	N-CA-CB	8.18	125.89	111.49
1	D	131	THR	CA-CB-CG2	-8.18	96.59	110.50
1	F	74	GLN	CA-C-N	8.18	137.17	121.54
1	F	74	GLN	C-N-CA	8.18	137.17	121.54
1	A	170	ARG	CA-CB-CG	8.18	130.46	114.10
1	E	105	PRO	O-C-N	8.18	133.68	122.64
1	F	39	VAL	CA-CB-CG1	8.18	124.31	110.40
1	E	83	THR	CA-C-N	8.18	136.12	121.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	83	THR	C-N-CA	8.18	136.12	121.89
1	C	154	LEU	CA-C-N	-8.18	108.46	121.87
1	C	154	LEU	C-N-CA	-8.18	108.46	121.87
1	D	189	PRO	CA-CB-CG	-8.18	88.97	104.50
1	F	183	CYS	CA-C-O	8.18	130.87	121.47
1	A	50	SER	CB-CA-C	8.17	123.28	109.55
1	E	225	LEU	CA-C-O	8.17	129.16	120.33
1	A	164	LEU	CA-C-N	-8.17	104.16	121.32
1	A	164	LEU	C-N-CA	-8.17	104.16	121.32
1	B	25	LEU	CA-C-O	8.17	129.10	120.36
1	D	229	GLY	CA-C-N	8.17	137.41	121.41
1	D	229	GLY	C-N-CA	8.17	137.41	121.41
1	A	34	SER	CB-CA-C	8.16	126.67	110.42
1	A	170	ARG	CB-CA-C	8.16	126.67	110.42
1	E	63	GLN	CB-CA-C	-8.16	93.50	110.40
1	A	197	THR	CA-C-N	8.16	137.13	121.54
1	A	197	THR	C-N-CA	8.16	137.13	121.54
1	B	164	LEU	CD1-CG-CD2	-8.16	92.85	110.80
1	B	169	ASP	CA-C-N	8.16	137.12	121.54
1	B	169	ASP	C-N-CA	8.16	137.12	121.54
1	D	26	SER	CA-CB-OG	-8.16	94.78	111.10
1	C	50	SER	N-CA-CB	-8.16	96.71	110.49
1	F	25	LEU	CA-C-O	-8.16	111.08	121.11
1	F	89	ASN	CB-CA-C	-8.15	94.79	109.71
1	B	208	ASN	CA-C-N	-8.15	109.03	122.39
1	B	208	ASN	C-N-CA	-8.15	109.03	122.39
1	D	111	GLY	CA-C-O	8.15	128.32	119.03
1	A	153	ARG	NH1-CZ-NH2	-8.14	108.71	119.30
1	D	86	SER	N-CA-CB	8.14	124.25	110.49
1	C	213	GLY	CA-C-N	8.14	133.29	122.30
1	C	213	GLY	C-N-CA	8.14	133.29	122.30
1	E	41	PHE	N-CA-CB	-8.14	96.39	111.53
1	C	87	ILE	N-CA-CB	8.13	124.65	111.23
1	C	143	ALA	N-CA-CB	-8.14	96.27	111.00
1	E	59	ARG	CG-CD-NE	-8.13	94.10	112.00
1	A	1	ASN	CB-CG-OD1	-8.13	104.53	120.80
1	E	111	GLY	CA-C-O	-8.13	111.12	118.77
1	B	10	GLU	CB-CG-CD	-8.13	98.78	112.60
1	C	51	ASN	CB-CA-C	8.13	126.26	110.57
1	B	67	LEU	CD1-CG-CD2	8.13	128.68	110.80
1	B	109	ASP	CA-C-N	8.13	137.43	121.58
1	B	109	ASP	C-N-CA	8.13	137.43	121.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	22	SER	CB-CA-C	-8.13	94.04	111.11
1	F	17	LEU	CB-CA-C	-8.13	97.02	110.19
1	C	30	PHE	CA-CB-CG	8.12	121.92	113.80
1	B	91	VAL	CB-CA-C	8.12	122.18	110.33
1	B	163	VAL	CA-C-N	8.12	135.12	122.94
1	B	163	VAL	C-N-CA	8.12	135.12	122.94
1	B	136	ASN	CB-CA-C	-8.12	94.68	110.10
1	E	34	SER	CA-C-N	8.12	133.34	122.06
1	E	34	SER	C-N-CA	8.12	133.34	122.06
1	E	113	SER	CA-C-O	8.12	131.39	121.89
1	E	213	GLY	CA-C-N	8.12	134.09	121.99
1	E	213	GLY	C-N-CA	8.12	134.09	121.99
1	A	36	CYS	CA-CB-SG	-8.12	95.73	114.40
1	F	92	LEU	O-C-N	8.12	132.87	123.29
1	C	28	PHE	CA-C-N	8.11	134.39	122.39
1	C	28	PHE	C-N-CA	8.11	134.39	122.39
1	E	113	SER	N-CA-CB	8.11	122.75	110.42
1	C	18	HIS	ND1-CE1-NE2	8.11	116.51	108.40
1	A	114	ASN	CA-CB-CG	-8.11	104.49	112.60
1	A	183	CYS	CB-CA-C	8.11	128.67	110.02
1	E	231	ALA	CA-C-O	-8.11	108.92	120.51
1	F	22	SER	CA-CB-OG	-8.11	94.89	111.10
1	E	144	THR	O-C-N	8.10	132.18	121.97
1	B	87	ILE	O-C-N	-8.10	112.45	122.57
1	C	14	PRO	CB-CA-C	-8.10	99.43	110.85
1	F	46	ARG	N-CA-C	-8.10	96.02	109.46
1	A	176	THR	CB-CA-C	8.10	130.70	111.83
1	E	235	THR	N-CA-CB	-8.10	97.73	111.50
1	E	180	GLY	O-C-N	8.09	131.60	123.10
1	F	165	PHE	N-CA-CB	-8.09	98.56	111.43
1	D	140	THR	N-CA-C	8.09	120.81	108.52
1	D	202	ALA	CA-C-N	8.08	131.93	120.53
1	D	202	ALA	C-N-CA	8.08	131.93	120.53
1	C	170	ARG	NE-CZ-NH2	8.08	126.47	119.20
1	D	105	PRO	CB-CA-C	-8.08	99.44	110.60
1	C	45	VAL	CA-C-O	8.08	130.88	120.78
1	D	225	LEU	CA-C-N	-8.08	109.64	122.73
1	D	225	LEU	C-N-CA	-8.08	109.64	122.73
1	E	79	TRP	CA-C-O	-8.07	108.97	120.51
1	F	201	ILE	CB-CG1-CD1	8.07	130.76	113.80
1	B	61	VAL	CB-CA-C	-8.07	98.06	111.29
1	E	65	ASP	CA-C-O	8.07	132.05	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	126	SER	O-C-N	-8.07	113.16	122.68
1	B	21	GLN	CG-CD-OE1	-8.06	104.67	120.80
1	B	79	TRP	CB-CA-C	-8.06	96.75	109.72
1	D	41	PHE	CA-C-O	8.05	131.31	121.56
1	E	154	LEU	CB-CA-C	-8.05	94.03	109.66
1	E	212	ALA	N-CA-C	8.06	121.60	110.24
1	F	69	VAL	CG1-CB-CG2	-8.05	93.08	110.80
1	F	170	ARG	CA-C-O	8.05	129.45	120.43
1	C	144	THR	OG1-CB-CG2	8.05	125.40	109.30
1	D	216	VAL	N-CA-CB	-8.05	97.47	112.36
1	E	13	HIS	O-C-N	-8.04	112.07	121.32
1	B	69	VAL	CA-CB-CG1	8.04	124.07	110.40
1	C	88	GLY	N-CA-C	8.04	132.24	113.18
1	D	59	ARG	CA-CB-CG	8.04	130.18	114.10
1	A	207	GLY	N-CA-C	8.04	132.23	113.18
1	A	37	ASN	CB-CG-OD1	-8.04	104.73	120.80
1	A	103	TYR	O-C-N	-8.04	112.34	123.11
1	E	86	SER	CA-C-O	-8.03	109.02	120.51
1	D	231	ALA	CA-C-O	-8.03	111.74	121.06
1	F	145	GLN	CB-CG-CD	-8.03	98.95	112.60
1	E	20	ALA	N-CA-C	-8.03	100.95	111.71
1	F	146	SER	CA-CB-OG	-8.03	95.04	111.10
1	A	78	ARG	CG-CD-NE	8.03	129.66	112.00
1	A	114	ASN	N-CA-C	8.03	124.47	107.70
1	B	165	PHE	CA-C-N	-8.02	106.21	121.54
1	B	165	PHE	C-N-CA	-8.02	106.21	121.54
1	C	149	LEU	CA-C-N	-8.02	102.22	121.80
1	C	149	LEU	C-N-CA	-8.02	102.22	121.80
1	A	119	VAL	O-C-N	-8.02	112.55	122.57
1	B	199	GLN	O-C-N	-8.02	111.03	122.41
1	C	33	GLN	CA-C-N	8.02	132.85	120.82
1	C	33	GLN	C-N-CA	8.02	132.85	120.82
1	B	127	ILE	CA-CB-CG2	-8.01	96.88	110.50
1	C	125	ASN	CA-C-N	8.01	135.17	122.59
1	C	125	ASN	C-N-CA	8.01	135.17	122.59
1	D	109	ASP	OD1-CG-OD2	8.01	142.13	122.90
1	C	157	GLU	CB-CA-C	8.01	126.36	110.42
1	A	145	GLN	O-C-N	-8.01	113.04	123.21
1	F	182	GLY	CA-C-O	8.01	134.50	120.57
1	A	231	ALA	O-C-N	-8.01	111.94	122.59
1	D	175	ASN	CA-C-N	8.00	134.84	122.11
1	D	175	ASN	C-N-CA	8.00	134.84	122.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	186	VAL	CA-C-N	-8.00	111.50	122.30
1	E	186	VAL	C-N-CA	-8.00	111.50	122.30
1	D	137	HIS	CA-C-O	-8.00	112.98	120.34
1	C	187	LEU	CA-C-O	8.00	131.64	120.52
1	D	142	HIS	CA-C-O	-7.99	110.38	119.41
1	F	190	ASN	N-CA-CB	-7.99	96.98	110.49
1	E	148	GLN	CA-CB-CG	7.99	130.08	114.10
1	A	7	LEU	N-CA-CB	-7.99	98.04	109.94
1	A	105	PRO	N-CA-C	-7.99	96.02	112.47
1	B	52	THR	CA-C-O	-7.99	110.06	119.48
1	B	90	TYR	OH-CZ-CE2	-7.99	95.94	119.90
1	F	149	LEU	CB-CA-C	-7.99	94.53	110.42
1	A	115	LYS	CA-C-N	7.98	133.16	120.55
1	A	115	LYS	C-N-CA	7.98	133.16	120.55
1	A	129	TYR	CD1-CE1-CZ	7.98	133.97	119.60
1	A	134	ASN	CA-C-N	7.98	136.20	122.95
1	A	134	ASN	C-N-CA	7.98	136.20	122.95
1	F	196	LEU	CB-CA-C	-7.98	94.54	110.42
1	E	195	VAL	CA-C-N	-7.98	110.97	122.94
1	E	195	VAL	C-N-CA	-7.98	110.97	122.94
1	B	74	GLN	OE1-CD-NE2	7.98	130.58	122.60
1	D	158	THR	CA-CB-OG1	-7.98	97.63	109.60
1	C	73	ALA	CA-C-N	7.98	136.78	121.54
1	C	73	ALA	C-N-CA	7.98	136.78	121.54
1	D	5	PHE	CZ-CE2-CD2	7.98	134.36	120.00
1	D	89	ASN	N-CA-C	7.98	127.79	110.80
1	F	169	ASP	N-CA-C	-7.98	94.57	108.69
1	D	61	VAL	CA-C-O	-7.97	110.82	120.78
1	A	39	VAL	N-CA-CB	-7.97	95.42	111.91
1	B	65	ASP	N-CA-C	-7.97	98.62	109.54
1	C	202	ALA	CA-C-N	7.97	136.31	121.97
1	C	202	ALA	C-N-CA	7.97	136.31	121.97
1	F	16	THR	CA-C-O	7.97	129.91	120.99
1	E	198	ASN	N-CA-CB	-7.96	95.85	110.18
1	F	59	ARG	NH1-CZ-NH2	-7.96	108.95	119.30
1	C	194	ASP	O-C-N	-7.96	114.00	123.31
1	F	210	ARG	CB-CG-CD	-7.96	93.00	111.30
1	A	13	HIS	CB-CG-CD2	-7.96	120.86	131.20
1	B	235	THR	CA-CB-CG2	-7.96	96.97	110.50
1	A	108	TRP	CD2-CE3-CZ3	-7.96	108.26	118.60
1	B	30	PHE	CB-CG-CD2	-7.96	107.18	120.70
1	E	114	ASN	CB-CG-OD1	-7.95	104.90	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	24	GLU	CA-C-N	7.95	135.71	123.23
1	F	24	GLU	C-N-CA	7.95	135.71	123.23
1	F	151	PRO	O-C-N	-7.95	111.48	122.30
1	E	112	THR	O-C-N	-7.95	110.59	122.67
1	D	139	GLN	N-CA-CB	7.94	124.09	110.98
1	F	234	THR	CA-CB-CG2	7.94	124.00	110.50
1	C	27	SER	CA-C-N	-7.94	108.21	121.39
1	C	27	SER	C-N-CA	-7.94	108.21	121.39
1	C	217	PHE	O-C-N	7.94	132.28	123.22
1	C	175	ASN	CA-CB-CG	7.94	120.54	112.60
1	C	137	HIS	ND1-CG-CD2	7.94	114.04	106.10
1	C	209	SER	O-C-N	-7.94	112.86	123.10
1	D	157	GLU	N-CA-CB	-7.94	97.08	110.49
1	F	89	ASN	CB-CG-ND2	7.94	128.30	116.40
1	F	141	LEU	CB-CA-C	7.94	123.54	109.65
1	D	202	ALA	N-CA-CB	-7.93	97.08	110.49
1	F	58	CYS	CA-C-O	-7.93	112.67	121.87
1	B	228	TYR	CA-C-O	-7.93	112.82	121.94
1	C	13	HIS	ND1-CG-CD2	-7.93	98.17	106.10
1	C	165	PHE	CD1-CG-CD2	-7.93	106.71	118.60
1	C	192	ARG	CB-CA-C	7.93	122.83	109.75
1	F	91	VAL	O-C-N	-7.93	113.89	123.09
1	B	126	SER	CA-CB-OG	-7.92	95.25	111.10
1	C	11	GLY	CA-C-O	-7.92	106.78	120.57
1	B	110	SER	CB-CA-C	-7.92	94.19	109.95
1	D	74	GLN	N-CA-C	7.92	123.03	111.87
1	D	167	ARG	CD-NE-CZ	-7.92	113.32	124.40
1	D	191	GLY	N-CA-C	7.92	127.20	115.64
1	E	179	LYS	O-C-N	-7.92	110.64	122.67
1	B	175	ASN	CA-C-O	-7.91	109.19	120.51
1	C	46	ARG	CB-CA-C	-7.91	94.67	110.42
1	D	160	CYS	CA-CB-SG	7.91	132.59	114.40
1	E	51	ASN	N-CA-C	-7.91	101.66	110.91
1	E	186	VAL	N-CA-C	7.91	118.79	108.35
1	C	85	GLY	CA-C-O	-7.91	106.81	120.57
1	D	192	ARG	N-CA-CB	-7.91	97.11	110.16
1	A	101	THR	N-CA-C	7.91	121.09	109.07
1	A	215	TYR	CB-CG-CD1	-7.91	108.94	120.80
1	D	199	GLN	CA-C-O	-7.91	112.02	121.66
1	B	144	THR	O-C-N	-7.90	112.08	122.59
1	A	34	SER	O-C-N	-7.90	112.08	122.59
1	B	63	GLN	CG-CD-OE1	7.89	136.59	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	58	CYS	O-C-N	-7.89	113.27	122.89
1	F	1	ASN	CA-C-O	7.89	134.21	120.80
1	A	29	ARG	NE-CZ-NH1	-7.89	113.61	121.50
1	A	48	TRP	CD2-CE3-CZ3	7.88	128.85	118.60
1	C	193	MET	N-CA-C	-7.88	96.83	109.76
1	C	192	ARG	CA-C-N	-7.88	110.91	122.65
1	C	192	ARG	C-N-CA	-7.88	110.91	122.65
1	A	218	VAL	CA-CB-CG1	-7.88	97.01	110.40
1	A	109	ASP	N-CA-C	-7.88	98.56	110.14
1	F	75	ASN	CA-C-N	-7.88	109.14	122.92
1	F	75	ASN	C-N-CA	-7.88	109.14	122.92
1	F	40	LEU	O-C-N	7.87	133.51	123.12
1	B	16	THR	CB-CA-C	-7.87	94.09	109.68
1	B	16	THR	O-C-N	7.87	132.62	123.41
1	E	64	SER	N-CA-CB	7.87	123.79	110.49
1	C	137	HIS	CG-ND1-CE1	-7.87	95.93	109.30
1	D	80	SER	CA-C-N	7.87	133.70	121.19
1	D	80	SER	C-N-CA	7.87	133.70	121.19
1	F	3	ILE	CA-C-O	-7.87	111.75	120.72
1	E	65	ASP	N-CA-CB	-7.87	97.20	110.49
1	E	148	GLN	CA-C-O	-7.87	110.54	120.14
1	C	192	ARG	NH1-CZ-NH2	7.86	129.52	119.30
1	C	104	GLY	N-CA-C	7.86	128.38	112.34
1	E	154	LEU	O-C-N	7.86	133.64	123.11
1	B	17	LEU	CB-CG-CD1	-7.86	87.12	110.70
1	A	129	TYR	N-CA-C	-7.86	94.06	110.80
1	C	103	TYR	CD1-CE1-CZ	-7.86	105.46	119.60
1	F	201	ILE	CA-CB-CG1	7.85	123.75	110.40
1	C	204	TRP	O-C-N	-7.85	114.22	123.41
1	E	1	ASN	N-CA-CB	7.85	123.84	110.50
1	C	119	VAL	CB-CA-C	7.84	124.16	111.29
1	E	163	VAL	CA-C-N	-7.84	112.07	123.05
1	E	163	VAL	C-N-CA	-7.84	112.07	123.05
1	B	24	GLU	N-CA-CB	-7.84	97.45	110.47
1	D	169	ASP	CA-C-N	7.84	136.52	121.54
1	D	169	ASP	C-N-CA	7.84	136.52	121.54
1	F	69	VAL	CA-CB-CG1	7.84	123.73	110.40
1	F	149	LEU	CA-C-N	-7.84	102.67	121.80
1	F	149	LEU	C-N-CA	-7.84	102.67	121.80
1	C	166	ASP	CA-C-O	-7.84	107.79	120.65
1	E	84	LYS	CA-CB-CG	7.84	129.78	114.10
1	C	62	LEU	CB-CG-CD2	7.83	134.20	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	196	LEU	CB-CA-C	-7.83	96.30	109.53
1	A	138	PRO	O-C-N	-7.83	112.07	122.64
1	C	186	VAL	CA-CB-CG2	-7.83	97.10	110.40
1	A	28	PHE	N-CA-C	-7.82	100.44	110.53
1	E	152	TYR	CG-CD2-CE2	7.82	132.93	121.20
1	D	131	THR	OG1-CB-CG2	7.82	124.94	109.30
1	E	23	LEU	N-CA-CB	7.82	125.15	111.00
1	E	186	VAL	CA-C-O	-7.82	112.54	120.90
1	D	92	LEU	CB-CA-C	-7.81	97.73	110.77
1	F	20	ALA	N-CA-CB	-7.81	99.06	110.70
1	B	105	PRO	N-CA-CB	7.81	111.45	103.25
1	B	233	TRP	CA-C-N	7.81	136.06	122.32
1	B	233	TRP	C-N-CA	7.81	136.06	122.32
1	F	213	GLY	CA-C-O	-7.81	106.99	120.57
1	C	147	LEU	CB-CA-C	-7.80	94.89	110.42
1	D	144	THR	OG1-CB-CG2	-7.80	93.69	109.30
1	B	92	LEU	N-CA-C	-7.80	92.25	107.62
1	D	105	PRO	O-C-N	7.80	132.66	123.14
1	D	164	LEU	CB-CA-C	-7.80	97.56	110.19
1	F	99	THR	CA-C-O	-7.80	111.94	120.36
1	D	231	ALA	CA-C-N	-7.79	110.00	122.24
1	D	231	ALA	C-N-CA	-7.79	110.00	122.24
1	A	216	VAL	CA-CB-CG2	7.79	123.65	110.40
1	A	219	LEU	CB-CA-C	-7.79	98.22	111.31
1	D	142	HIS	CB-CA-C	-7.79	95.61	109.24
1	E	194	ASP	CA-C-N	-7.79	112.51	123.11
1	E	194	ASP	C-N-CA	-7.79	112.51	123.11
1	E	28	PHE	CA-C-N	7.79	133.92	122.39
1	E	28	PHE	C-N-CA	7.79	133.92	122.39
1	A	82	GLY	CA-C-O	7.79	134.12	120.57
1	E	138	PRO	CA-CB-CG	-7.79	89.71	104.50
1	A	76	THR	N-CA-C	7.78	122.23	107.75
1	A	21	GLN	O-C-N	7.78	133.39	123.12
1	D	88	GLY	CA-C-O	-7.78	107.03	120.57
1	A	26	SER	N-CA-C	7.78	127.36	110.80
1	A	40	LEU	CA-CB-CG	7.78	143.52	116.30
1	E	208	ASN	N-CA-C	-7.78	97.81	109.86
1	F	53	ALA	N-CA-CB	-7.78	96.85	109.60
1	B	65	ASP	N-CA-CB	-7.77	93.01	111.74
1	C	89	ASN	CB-CG-ND2	7.77	128.06	116.40
1	C	46	ARG	CB-CG-CD	7.76	129.16	111.30
1	F	50	SER	N-CA-CB	-7.76	97.37	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	57	GLY	CA-C-N	7.76	135.10	120.97
1	F	57	GLY	C-N-CA	7.76	135.10	120.97
1	A	149	LEU	CB-CA-C	-7.76	94.98	110.42
1	D	9	HIS	CB-CG-ND1	-7.76	111.06	122.70
1	C	190	ASN	CB-CG-OD1	-7.76	105.28	120.80
1	B	169	ASP	OD1-CG-OD2	7.76	141.52	122.90
1	B	213	GLY	N-CA-C	7.76	121.38	111.37
1	F	130	SER	N-CA-C	7.76	127.32	110.80
1	F	143	ALA	CB-CA-C	-7.75	96.26	109.83
1	A	184	ARG	O-C-N	-7.75	115.12	123.42
1	C	148	GLN	OE1-CD-NE2	-7.75	114.85	122.60
1	E	168	ASP	CB-CA-C	7.75	125.84	110.42
1	C	195	VAL	CA-CB-CG1	7.74	123.57	110.40
1	A	15	GLN	CA-C-N	7.74	136.50	121.63
1	A	15	GLN	C-N-CA	7.74	136.50	121.63
1	A	139	GLN	OE1-CD-NE2	7.74	130.34	122.60
1	B	149	LEU	CA-C-N	-7.74	102.92	121.80
1	B	149	LEU	C-N-CA	-7.74	102.92	121.80
1	E	50	SER	CA-C-O	-7.74	112.69	120.82
1	A	14	PRO	CA-CB-CG	-7.74	89.30	104.00
1	D	106	GLY	N-CA-C	-7.74	94.85	113.18
1	B	136	ASN	N-CA-CB	7.73	123.65	110.50
1	B	77	ILE	N-CA-CB	-7.73	98.47	111.23
1	E	97	ASP	CA-C-O	-7.73	109.36	119.10
1	E	176	THR	CA-CB-CG2	-7.73	97.35	110.50
1	C	59	ARG	CA-CB-CG	7.73	129.56	114.10
1	E	52	THR	N-CA-C	-7.73	95.74	108.49
1	F	235	THR	N-CA-CB	-7.73	98.36	111.50
1	F	234	THR	O-C-N	-7.73	115.37	123.56
1	F	29	ARG	NE-CZ-NH2	7.73	126.15	119.20
1	E	120	VAL	CA-CB-CG1	7.72	123.53	110.40
1	B	70	ILE	N-CA-CB	-7.72	100.24	111.52
1	C	165	PHE	CG-CD1-CE1	7.72	133.83	120.70
1	B	21	GLN	O-C-N	-7.72	114.22	123.10
1	E	27	SER	CA-C-O	7.72	131.55	120.51
1	C	48	TRP	CD2-CE2-CZ2	7.72	130.12	122.40
1	E	30	PHE	CB-CA-C	-7.72	98.29	111.41
1	A	101	THR	CA-CB-CG2	7.71	123.62	110.50
1	A	136	ASN	O-C-N	-7.71	112.98	123.01
1	D	50	SER	CA-C-O	-7.71	110.36	119.15
1	A	159	ASP	N-CA-CB	7.71	122.91	110.42
1	B	91	VAL	CA-CB-CG2	-7.70	97.31	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	2	ASN	CB-CA-C	7.70	122.20	109.80
1	F	157	GLU	CA-CB-CG	7.70	129.50	114.10
1	E	197	THR	N-CA-CB	-7.70	99.83	110.38
1	D	17	LEU	N-CA-CB	7.70	123.22	110.52
1	F	17	LEU	CA-C-O	-7.69	112.13	120.36
1	C	28	PHE	CA-C-O	-7.69	112.63	121.47
1	F	19	ALA	CA-C-N	-7.69	110.35	122.73
1	F	19	ALA	C-N-CA	-7.69	110.35	122.73
1	C	164	LEU	CD1-CG-CD2	7.69	127.71	110.80
1	F	145	GLN	CA-CB-CG	-7.69	98.72	114.10
1	B	206	SER	O-C-N	-7.69	112.37	122.59
1	E	13	HIS	N-CA-CB	-7.69	96.69	110.37
1	F	170	ARG	O-C-N	-7.69	114.29	123.13
1	C	21	GLN	CB-CA-C	7.68	122.18	109.89
1	D	233	TRP	CG-CD1-NE1	7.68	120.19	110.20
1	B	153	ARG	NE-CZ-NH2	7.68	126.11	119.20
1	F	224	ASN	N-CA-CB	-7.68	97.51	110.49
1	F	232	LEU	O-C-N	7.67	130.93	121.95
1	E	64	SER	CA-C-O	7.67	131.48	120.51
1	A	195	VAL	N-CA-C	-7.67	94.35	107.24
1	C	167	ARG	N-CA-CB	7.67	123.45	110.49
1	B	197	THR	CA-CB-CG2	-7.67	97.46	110.50
1	C	25	LEU	N-CA-C	-7.67	94.27	107.61
1	C	27	SER	CB-CA-C	7.67	125.68	110.42
1	D	113	SER	CA-C-O	7.67	130.73	121.99
1	D	202	ALA	CA-C-O	-7.67	109.55	120.51
1	B	144	THR	OG1-CB-CG2	-7.67	93.97	109.30
1	A	37	ASN	OD1-CG-ND2	7.66	130.26	122.60
1	A	98	ARG	CA-C-N	-7.66	109.37	123.01
1	A	98	ARG	C-N-CA	-7.66	109.37	123.01
1	D	75	ASN	CB-CG-OD1	-7.66	105.48	120.80
1	D	46	ARG	O-C-N	-7.66	113.39	122.89
1	D	106	GLY	CA-C-O	-7.66	107.25	120.57
1	B	221	PRO	N-CD-CG	-7.65	91.72	103.20
1	E	9	HIS	N-CA-CB	-7.65	97.56	110.49
1	E	24	GLU	CA-C-N	7.65	135.88	123.33
1	E	24	GLU	C-N-CA	7.65	135.88	123.33
1	E	199	GLN	N-CA-CB	-7.65	98.68	110.92
1	C	119	VAL	CA-CB-CG1	7.65	123.41	110.40
1	F	6	GLY	CA-C-N	7.65	136.15	121.54
1	F	6	GLY	C-N-CA	7.65	136.15	121.54
1	B	34	SER	CA-C-O	-7.65	109.55	119.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	45	VAL	CG1-CB-CG2	-7.65	93.98	110.80
1	D	196	LEU	CB-CG-CD2	7.65	133.65	110.70
1	B	29	ARG	CG-CD-NE	7.64	128.82	112.00
1	B	63	GLN	CB-CG-CD	-7.64	99.61	112.60
1	E	62	LEU	CB-CG-CD2	7.64	133.63	110.70
1	F	210	ARG	CA-CB-CG	-7.64	98.81	114.10
1	D	161	ASN	CB-CA-C	-7.64	96.50	109.72
1	C	204	TRP	CA-C-N	7.63	135.10	122.73
1	C	204	TRP	C-N-CA	7.63	135.10	122.73
1	D	96	PRO	O-C-N	-7.63	112.01	122.24
1	F	224	ASN	CA-C-O	-7.63	109.59	120.51
1	C	229	GLY	N-CA-C	7.63	131.27	113.18
1	F	139	GLN	OE1-CD-NE2	-7.63	114.97	122.60
1	F	142	HIS	CA-C-O	-7.63	112.68	120.77
1	E	40	LEU	CA-CB-CG	7.63	143.01	116.30
1	C	79	TRP	CA-C-N	7.63	134.38	121.87
1	C	79	TRP	C-N-CA	7.63	134.38	121.87
1	C	218	VAL	CA-C-N	-7.62	112.25	122.85
1	C	218	VAL	C-N-CA	-7.62	112.25	122.85
1	B	28	PHE	CA-C-N	-7.62	109.82	121.86
1	B	28	PHE	C-N-CA	-7.62	109.82	121.86
1	D	104	GLY	C-N-CD	-7.62	93.74	125.00
1	D	197	THR	CB-CA-C	-7.62	96.62	109.65
1	E	148	GLN	CB-CG-CD	7.62	125.56	112.60
1	A	71	LEU	CA-C-N	-7.62	109.04	122.07
1	A	71	LEU	C-N-CA	-7.62	109.04	122.07
1	C	71	LEU	CB-CG-CD2	-7.62	87.85	110.70
1	C	77	ILE	N-CA-C	7.62	125.18	109.34
1	F	159	ASP	O-C-N	-7.62	113.35	122.11
1	B	160	CYS	N-CA-CB	7.61	123.36	110.49
1	C	130	SER	N-CA-C	-7.61	94.58	110.80
1	D	221	PRO	N-CA-C	-7.61	104.34	113.86
1	E	16	THR	CB-CA-C	-7.61	93.72	109.94
1	E	210	ARG	NE-CZ-NH1	-7.61	113.89	121.50
1	F	223	ARG	CA-CB-CG	-7.61	98.88	114.10
1	D	157	GLU	CG-CD-OE2	-7.61	100.90	118.40
1	A	119	VAL	N-CA-CB	-7.61	98.68	111.23
1	C	127	ILE	CA-CB-CG2	-7.61	97.57	110.50
1	D	210	ARG	NH1-CZ-NH2	-7.61	109.41	119.30
1	E	98	ARG	CA-C-N	7.60	134.45	122.74
1	E	98	ARG	C-N-CA	7.60	134.45	122.74
1	F	200	ASN	OD1-CG-ND2	7.60	130.20	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	63	GLN	CA-C-N	-7.60	107.02	121.54
1	B	63	GLN	C-N-CA	-7.60	107.02	121.54
1	C	141	LEU	N-CA-C	7.60	121.32	108.02
1	B	62	LEU	N-CA-C	7.60	121.30	109.07
1	A	128	LEU	CB-CG-CD1	7.59	133.48	110.70
1	E	174	THR	CA-C-O	-7.59	110.30	119.49
1	D	83	THR	OG1-CB-CG2	7.59	124.48	109.30
1	D	169	ASP	O-C-N	7.59	132.69	122.59
1	E	184	ARG	NH1-CZ-NH2	7.59	129.17	119.30
1	A	66	GLY	CA-C-O	-7.59	107.36	120.57
1	E	119	VAL	N-CA-CB	-7.59	98.71	111.23
1	F	192	ARG	NH1-CZ-NH2	-7.59	109.44	119.30
1	B	156	MET	N-CA-C	7.59	122.57	107.62
1	A	105	PRO	CA-C-O	-7.58	106.80	120.60
1	C	46	ARG	NH1-CZ-NH2	-7.58	109.44	119.30
1	C	45	VAL	CA-C-N	7.58	136.02	121.54
1	C	45	VAL	C-N-CA	7.58	136.02	121.54
1	E	160	CYS	CA-C-N	-7.58	110.67	122.87
1	E	160	CYS	C-N-CA	-7.58	110.67	122.87
1	F	144	THR	CA-C-O	-7.58	109.67	120.51
1	E	128	LEU	CB-CG-CD2	7.58	133.44	110.70
1	B	136	ASN	CA-C-O	-7.58	107.92	120.80
1	E	212	ALA	CB-CA-C	-7.58	97.50	109.70
1	B	142	HIS	CA-C-O	-7.57	108.96	118.43
1	F	181	THR	N-CA-C	7.57	126.93	110.80
1	E	211	SER	O-C-N	-7.57	112.52	122.59
1	A	37	ASN	CB-CA-C	7.57	122.19	109.48
1	A	78	ARG	O-C-N	-7.57	112.29	122.43
1	A	81	SER	CB-CA-C	7.56	123.81	111.26
1	F	109	ASP	N-CA-C	-7.56	96.21	109.06
1	B	35	ASP	O-C-N	-7.56	113.28	122.20
1	B	112	THR	N-CA-C	7.56	126.90	110.80
1	B	168	ASP	CA-CB-CG	7.56	120.16	112.60
1	F	11	GLY	O-C-N	-7.56	112.88	122.70
1	D	33	GLN	O-C-N	-7.55	112.47	122.97
1	F	13	HIS	CA-C-O	-7.55	110.40	121.27
1	D	34	SER	CA-C-O	-7.55	110.70	119.61
1	E	61	VAL	O-C-N	-7.55	113.14	122.57
1	E	117	SER	N-CA-C	7.54	126.87	110.80
1	C	208	ASN	OD1-CG-ND2	-7.54	115.06	122.60
1	A	62	LEU	N-CA-CB	7.54	123.95	110.83
1	A	63	GLN	CA-CB-CG	-7.54	99.02	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	50	SER	CB-CA-C	-7.54	95.42	110.42
1	C	29	ARG	CD-NE-CZ	7.53	134.95	124.40
1	B	186	VAL	CA-C-N	-7.53	112.61	123.00
1	B	186	VAL	C-N-CA	-7.53	112.61	123.00
1	B	111	GLY	O-C-N	-7.53	112.91	122.70
1	B	26	SER	CA-C-N	7.53	135.92	121.54
1	B	26	SER	C-N-CA	7.53	135.92	121.54
1	B	208	ASN	CA-C-O	7.53	131.27	120.51
1	B	195	VAL	N-CA-CB	7.53	123.65	111.23
1	B	139	GLN	CG-CD-NE2	-7.52	105.12	116.40
1	C	164	LEU	CA-C-N	-7.52	111.00	122.81
1	C	164	LEU	C-N-CA	-7.52	111.00	122.81
1	E	210	ARG	CB-CA-C	7.52	125.39	110.42
1	B	62	LEU	CD1-CG-CD2	-7.52	94.25	110.80
1	D	172	TRP	CG-CD1-NE1	7.52	119.98	110.20
1	A	72	THR	OG1-CB-CG2	-7.52	94.26	109.30
1	B	97	ASP	CA-C-O	-7.52	109.73	119.80
1	E	35	ASP	CB-CG-OD2	7.52	135.69	118.40
1	E	137	HIS	CA-CB-CG	-7.52	106.28	113.80
1	F	14	PRO	O-C-N	-7.52	112.49	122.64
1	C	204	TRP	CZ3-CH2-CZ2	-7.52	111.73	121.50
1	F	98	ARG	CA-C-O	7.52	130.22	121.28
1	E	157	GLU	CA-C-N	-7.51	105.58	121.80
1	E	157	GLU	C-N-CA	-7.51	105.58	121.80
1	B	198	ASN	N-CA-C	7.51	126.80	110.80
1	D	16	THR	CA-CB-OG1	7.51	120.86	109.60
1	E	110	SER	CA-C-N	-7.51	112.27	122.63
1	E	110	SER	C-N-CA	-7.51	112.27	122.63
1	A	80	SER	CB-CA-C	-7.51	96.05	111.22
1	D	63	GLN	N-CA-C	7.51	126.79	110.80
1	F	83	THR	N-CA-C	-7.51	100.62	110.53
1	C	33	GLN	OE1-CD-NE2	7.51	130.11	122.60
1	D	37	ASN	CA-C-N	-7.51	112.78	122.77
1	D	37	ASN	C-N-CA	-7.51	112.78	122.77
1	C	203	VAL	CA-C-O	-7.50	111.40	120.78
1	B	192	ARG	NH1-CZ-NH2	-7.50	109.55	119.30
1	E	233	TRP	CG-CD1-NE1	7.50	119.95	110.20
1	D	167	ARG	N-CA-C	-7.50	94.83	110.80
1	B	226	ALA	N-CA-C	-7.49	94.84	110.80
1	A	95	GLN	O-C-N	7.49	130.23	121.39
1	B	230	GLY	CA-C-O	-7.49	107.54	120.57
1	C	205	THR	CB-CA-C	-7.49	94.52	109.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	87	ILE	CA-CB-CG1	-7.49	97.67	110.40
1	B	163	VAL	N-CA-CB	-7.49	98.88	111.23
1	D	173	SER	CB-CA-C	-7.48	94.36	110.45
1	B	62	LEU	CB-CG-CD1	7.48	133.14	110.70
1	F	107	LEU	CB-CA-C	7.48	125.31	110.42
1	C	233	TRP	CD2-CE3-CZ3	-7.48	108.88	118.60
1	D	161	ASN	O-C-N	7.48	132.11	123.29
1	F	126	SER	N-CA-CB	-7.48	100.12	110.29
1	F	89	ASN	CA-C-O	-7.47	112.29	120.36
1	B	43	SER	CA-CB-OG	7.47	126.05	111.10
1	D	235	THR	N-CA-CB	-7.47	98.80	111.50
1	D	13	HIS	CB-CG-CD2	7.47	140.91	131.20
1	D	37	ASN	CA-C-O	7.47	128.57	120.43
1	A	108	TRP	CE3-CZ3-CH2	7.47	130.81	121.10
1	A	59	ARG	CA-CB-CG	7.47	129.03	114.10
1	A	190	ASN	OD1-CG-ND2	-7.47	115.13	122.60
1	E	54	GLY	CA-C-O	-7.47	110.35	119.68
1	E	223	ARG	CB-CG-CD	7.47	128.47	111.30
1	F	157	GLU	CG-CD-OE1	7.47	135.57	118.40
1	A	155	SER	CB-CA-C	7.46	124.98	109.38
1	E	56	THR	CA-CB-OG1	7.46	120.80	109.60
1	A	153	ARG	O-C-N	-7.46	114.90	123.33
1	F	29	ARG	CA-C-N	7.46	131.78	121.33
1	F	29	ARG	C-N-CA	7.46	131.78	121.33
1	E	29	ARG	NH1-CZ-NH2	-7.46	109.60	119.30
1	E	138	PRO	O-C-N	7.46	132.71	122.64
1	D	191	GLY	O-C-N	7.45	130.77	122.50
1	A	31	THR	CA-CB-CG2	7.45	123.16	110.50
1	C	133	GLY	CA-C-O	7.45	136.44	120.80
1	A	112	THR	OG1-CB-CG2	-7.44	94.41	109.30
1	C	80	SER	N-CA-CB	7.44	123.32	111.56
1	D	32	MET	CB-CA-C	-7.44	96.85	109.72
1	D	163	VAL	CA-CB-CG2	-7.44	97.75	110.40
1	E	73	ALA	CA-C-O	7.44	131.15	120.51
1	C	188	GLN	CA-C-N	7.43	129.13	119.84
1	C	188	GLN	C-N-CA	7.43	129.13	119.84
1	F	64	SER	N-CA-C	7.43	126.63	110.80
1	F	110	SER	CA-C-N	-7.43	108.32	121.70
1	F	110	SER	C-N-CA	-7.43	108.32	121.70
1	F	196	LEU	CD1-CG-CD2	-7.43	94.45	110.80
1	D	127	ILE	CA-C-O	-7.43	112.66	120.39
1	B	173	SER	CA-C-O	-7.42	113.16	121.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	114	ASN	CA-C-O	-7.42	111.08	120.14
1	F	129	TYR	CA-CB-CG	7.42	127.27	113.90
1	A	65	ASP	O-C-N	-7.42	113.01	122.21
1	A	18	HIS	N-CA-CB	7.42	121.75	110.70
1	A	205	THR	CA-C-N	7.42	135.71	121.54
1	A	205	THR	C-N-CA	7.42	135.71	121.54
1	C	56	THR	N-CA-C	7.42	120.64	108.99
1	C	90	TYR	N-CA-C	7.42	121.16	109.81
1	A	99	THR	OG1-CB-CG2	7.42	124.13	109.30
1	D	195	VAL	CG1-CB-CG2	7.42	127.11	110.80
1	C	103	TYR	O-C-N	-7.41	114.23	123.27
1	E	161	ASN	N-CA-CB	-7.41	98.99	110.85
1	A	166	ASP	O-C-N	7.41	134.22	122.96
1	B	214	ARG	CB-CG-CD	7.41	128.34	111.30
1	C	192	ARG	CA-CB-CG	7.41	128.92	114.10
1	D	84	LYS	CA-CB-CG	7.41	128.92	114.10
1	E	33	GLN	CG-CD-NE2	-7.41	105.29	116.40
1	E	39	VAL	N-CA-C	7.41	120.81	108.81
1	A	129	TYR	CE1-CZ-CE2	-7.41	105.49	120.30
1	E	69	VAL	CA-C-O	-7.41	113.64	121.93
1	D	129	TYR	CG-CD1-CE1	-7.40	110.10	121.20
1	D	169	ASP	CA-CB-CG	-7.40	105.20	112.60
1	E	94	LEU	CB-CA-C	-7.40	98.05	110.19
1	C	56	THR	CA-C-N	7.40	135.91	121.41
1	C	56	THR	C-N-CA	7.40	135.91	121.41
1	A	162	LEU	CB-CA-C	7.40	121.90	109.84
1	F	69	VAL	CA-CB-CG2	7.40	122.97	110.40
1	A	24	GLU	N-CA-C	7.39	120.95	108.90
1	D	209	SER	CA-CB-OG	-7.39	96.32	111.10
1	C	50	SER	CA-CB-OG	7.39	125.87	111.10
1	E	1	ASN	CA-C-N	7.39	133.29	121.18
1	E	1	ASN	C-N-CA	7.39	133.29	121.18
1	E	149	LEU	N-CA-CB	7.39	122.97	110.49
1	E	194	ASP	CA-C-O	7.38	129.21	120.20
1	B	223	ARG	CG-CD-NE	7.38	128.24	112.00
1	C	159	ASP	N-CA-CB	7.38	122.81	110.41
1	B	52	THR	N-CA-C	-7.38	102.54	112.94
1	C	32	MET	CB-CA-C	-7.37	101.55	112.09
1	B	13	HIS	N-CA-CB	-7.37	97.52	110.05
1	B	71	LEU	O-C-N	-7.37	114.78	123.41
1	F	198	ASN	CB-CG-ND2	7.37	127.45	116.40
1	E	234	THR	O-C-N	7.37	132.39	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	100	VAL	CB-CA-C	7.37	120.05	110.91
1	A	135	ASP	CA-CB-CG	-7.37	105.23	112.60
1	C	187	LEU	CB-CA-C	-7.37	99.83	111.17
1	C	1	ASN	N-CA-CB	7.36	123.02	110.50
1	F	56	THR	CB-CA-C	-7.36	94.62	110.45
1	E	74	GLN	CA-CB-CG	7.36	128.82	114.10
1	E	231	ALA	O-C-N	7.36	132.38	122.59
1	B	129	TYR	CA-C-O	-7.36	113.16	120.89
1	C	113	SER	N-CA-CB	-7.36	99.83	110.36
1	E	29	ARG	CB-CA-C	7.36	121.47	110.14
1	E	146	SER	CB-CA-C	-7.36	95.78	110.42
1	D	125	ASN	CB-CG-ND2	7.35	127.43	116.40
1	D	21	GLN	CG-CD-NE2	7.35	127.43	116.40
1	F	97	ASP	CB-CG-OD1	-7.35	101.50	118.40
1	F	206	SER	CB-CA-C	7.35	125.04	110.42
1	E	105	PRO	N-CA-C	-7.34	97.34	112.47
1	B	125	ASN	CA-C-N	7.34	134.33	120.97
1	B	125	ASN	C-N-CA	7.34	134.33	120.97
1	B	219	LEU	N-CA-C	-7.34	97.72	109.76
1	C	57	GLY	CA-C-O	-7.34	107.80	120.57
1	C	128	LEU	N-CA-C	-7.34	99.59	110.23
1	D	64	SER	N-CA-CB	-7.34	99.86	110.80
1	F	86	SER	N-CA-CB	7.34	125.46	111.15
1	B	208	ASN	CA-CB-CG	-7.33	105.27	112.60
1	C	8	SER	CA-CB-OG	-7.33	96.43	111.10
1	D	167	ARG	CB-CA-C	7.33	125.01	110.42
1	C	69	VAL	CB-CA-C	-7.33	101.16	111.28
1	E	176	THR	CA-CB-OG1	7.33	120.60	109.60
1	E	171	VAL	CA-C-O	-7.33	111.62	120.78
1	A	2	ASN	O-C-N	-7.33	112.84	122.59
1	E	87	ILE	CA-C-N	7.33	135.77	121.41
1	E	87	ILE	C-N-CA	7.33	135.77	121.41
1	B	159	ASP	OD1-CG-OD2	7.33	140.48	122.90
1	C	175	ASN	CB-CG-ND2	-7.33	105.41	116.40
1	F	62	LEU	N-CA-CB	7.33	122.99	110.68
1	A	111	GLY	O-C-N	-7.32	113.18	122.70
1	B	203	VAL	O-C-N	-7.32	113.42	122.57
1	C	153	ARG	CB-CG-CD	-7.32	94.46	111.30
1	B	166	ASP	CB-CG-OD1	7.32	135.24	118.40
1	D	174	THR	CB-CA-C	-7.32	95.85	110.42
1	D	185	ALA	CA-C-N	-7.32	111.75	122.58
1	D	185	ALA	C-N-CA	-7.32	111.75	122.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	78	ARG	CB-CG-CD	7.31	128.12	111.30
1	E	70	ILE	CA-CB-CG2	-7.31	98.08	110.50
1	F	45	VAL	N-CA-C	-7.31	94.14	109.34
1	E	221	PRO	CA-C-O	-7.31	107.30	120.60
1	C	156	MET	CA-C-N	-7.31	107.58	121.54
1	C	156	MET	C-N-CA	-7.31	107.58	121.54
1	D	217	PHE	CD1-CE1-CZ	-7.31	106.85	120.00
1	B	99	THR	CA-CB-OG1	7.30	120.55	109.60
1	C	191	GLY	CA-C-N	-7.30	112.64	122.72
1	C	191	GLY	C-N-CA	-7.30	112.64	122.72
1	F	94	LEU	CB-CG-CD2	7.30	132.60	110.70
1	F	191	GLY	N-CA-C	7.30	125.39	115.32
1	A	74	GLN	CG-CD-OE1	-7.30	106.20	120.80
1	C	207	GLY	CA-C-O	-7.29	107.88	120.57
1	A	163	VAL	CA-C-O	-7.29	114.41	121.63
1	C	131	THR	CA-C-O	-7.29	113.68	121.99
1	A	130	SER	N-CA-CB	-7.29	99.32	110.77
1	C	166	ASP	OD1-CG-OD2	7.29	140.40	122.90
1	A	189	PRO	CB-CA-C	7.29	122.26	111.62
1	A	173	SER	N-CA-CB	-7.29	100.24	111.46
1	B	128	LEU	CD1-CG-CD2	-7.29	94.77	110.80
1	D	58	CYS	CA-CB-SG	-7.29	97.64	114.40
1	E	71	LEU	CA-C-N	-7.29	108.25	122.02
1	E	71	LEU	C-N-CA	-7.29	108.25	122.02
1	A	98	ARG	CA-C-O	-7.28	110.10	120.51
1	B	49	ALA	CB-CA-C	-7.28	95.93	110.42
1	F	196	LEU	O-C-N	-7.28	112.91	122.59
1	C	185	ALA	CA-C-N	7.28	134.26	122.69
1	C	185	ALA	C-N-CA	7.28	134.26	122.69
1	D	62	LEU	O-C-N	-7.28	113.68	123.14
1	E	117	SER	CA-C-N	7.28	135.07	121.97
1	E	117	SER	C-N-CA	7.28	135.07	121.97
1	D	80	SER	CB-CA-C	-7.28	98.50	110.14
1	D	201	ILE	CB-CA-C	-7.28	100.72	110.98
1	D	37	ASN	CB-CA-C	7.28	121.75	109.75
1	F	84	LYS	O-C-N	-7.28	113.37	123.34
1	A	150	SER	CA-C-N	-7.27	110.75	119.84
1	A	150	SER	C-N-CA	-7.27	110.75	119.84
1	A	13	HIS	CB-CA-C	7.27	120.54	109.56
1	B	1	ASN	CB-CG-OD1	7.27	135.35	120.80
1	F	35	ASP	CB-CA-C	-7.27	98.27	110.56
1	F	1	ASN	CB-CG-ND2	-7.27	105.50	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	148	GLN	CG-CD-NE2	7.27	127.30	116.40
1	B	215	TYR	CA-C-O	-7.27	112.94	121.44
1	B	29	ARG	O-C-N	7.26	133.29	123.34
1	B	139	GLN	N-CA-C	-7.26	102.70	112.94
1	C	152	TYR	CA-CB-CG	7.26	126.97	113.90
1	D	84	LYS	N-CA-CB	7.26	122.76	110.49
1	F	17	LEU	N-CA-CB	7.26	122.26	110.42
1	A	78	ARG	CA-C-N	7.26	135.41	121.54
1	A	78	ARG	C-N-CA	7.26	135.41	121.54
1	A	61	VAL	CA-C-N	-7.25	112.06	122.94
1	A	61	VAL	C-N-CA	-7.25	112.06	122.94
1	B	227	ILE	N-CA-CB	-7.25	102.91	111.83
1	F	86	SER	CA-CB-OG	7.25	125.61	111.10
1	E	5	PHE	CB-CG-CD1	7.25	133.03	120.70
1	E	112	THR	N-CA-CB	-7.25	102.01	110.35
1	A	105	PRO	N-CA-CB	7.25	110.86	103.25
1	F	218	VAL	CA-CB-CG2	7.25	122.72	110.40
1	D	217	PHE	N-CA-CB	-7.24	98.70	111.08
1	C	113	SER	CB-CA-C	7.24	124.52	109.68
1	E	77	ILE	N-CA-CB	-7.24	104.08	111.90
1	A	33	GLN	O-C-N	-7.23	114.45	122.84
1	B	26	SER	N-CA-CB	-7.23	98.27	110.49
1	B	174	THR	CA-CB-CG2	-7.23	98.21	110.50
1	E	151	PRO	N-CA-C	-7.23	107.16	114.68
1	E	224	ASN	OD1-CG-ND2	-7.23	115.37	122.60
1	B	174	THR	O-C-N	-7.23	112.95	122.42
1	D	165	PHE	N-CA-CB	7.23	121.98	110.85
1	D	152	TYR	CB-CA-C	-7.22	97.29	109.50
1	D	58	CYS	CB-CA-C	7.22	121.61	109.84
1	C	29	ARG	CB-CA-C	-7.22	99.02	110.14
1	D	44	ASP	CA-C-O	-7.21	110.19	120.51
1	F	29	ARG	NE-CZ-NH1	-7.21	114.28	121.50
1	F	158	THR	CA-C-O	-7.21	110.36	119.31
1	D	216	VAL	CA-CB-CG2	7.21	122.66	110.40
1	A	144	THR	CA-C-O	-7.21	107.26	118.94
1	A	172	TRP	CD2-CE3-CZ3	7.21	127.97	118.60
1	A	92	LEU	CB-CG-CD1	-7.21	89.07	110.70
1	D	84	LYS	CA-C-O	-7.21	110.20	120.51
1	C	140	THR	CA-CB-CG2	7.21	122.75	110.50
1	A	78	ARG	CB-CG-CD	7.20	127.87	111.30
1	F	69	VAL	CB-CA-C	7.20	121.35	110.62
1	D	222	ASP	CB-CG-OD2	7.20	134.96	118.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	34	SER	N-CA-CB	7.19	120.86	110.65
1	C	205	THR	CA-CB-CG2	-7.19	98.28	110.50
1	F	67	LEU	CA-CB-CG	7.19	141.46	116.30
1	F	85	GLY	CA-C-O	7.18	128.54	121.28
1	A	154	LEU	O-C-N	-7.18	114.80	123.27
1	D	207	GLY	CA-C-O	7.18	133.07	120.57
1	E	150	SER	CA-C-N	-7.18	113.51	120.83
1	E	150	SER	C-N-CA	-7.18	113.51	120.83
1	A	142	HIS	CB-CG-CD2	7.18	140.53	131.20
1	E	95	GLN	OE1-CD-NE2	-7.18	115.42	122.60
1	D	30	PHE	CD1-CE1-CZ	-7.18	107.08	120.00
1	E	159	ASP	CA-C-O	7.18	130.77	120.51
1	F	5	PHE	CG-CD2-CE2	7.18	132.90	120.70
1	F	206	SER	CA-C-N	7.18	135.47	121.41
1	F	206	SER	C-N-CA	7.18	135.47	121.41
1	C	205	THR	CA-C-O	7.17	128.91	120.66
1	F	183	CYS	CB-CA-C	7.17	122.66	109.46
1	B	167	ARG	CA-C-O	-7.17	110.26	120.51
1	B	214	ARG	CA-C-O	7.16	128.11	120.95
1	C	229	GLY	CA-C-N	7.16	135.45	121.41
1	C	229	GLY	C-N-CA	7.16	135.45	121.41
1	A	21	GLN	CA-C-O	-7.16	112.88	120.40
1	F	19	ALA	N-CA-CB	7.16	122.59	110.49
1	A	171	VAL	N-CA-C	-7.16	94.45	109.34
1	D	10	GLU	CA-C-O	-7.16	111.54	119.34
1	B	216	VAL	CB-CA-C	7.15	123.02	111.29
1	E	215	TYR	O-C-N	7.15	132.91	122.97
1	B	189	PRO	O-C-N	7.15	132.29	122.64
1	F	56	THR	O-C-N	-7.15	115.10	123.25
1	C	167	ARG	CG-CD-NE	7.15	127.73	112.00
1	D	42	ASP	OD1-CG-OD2	7.15	140.06	122.90
1	D	234	THR	O-C-N	-7.15	115.10	123.25
1	E	9	HIS	O-C-N	7.15	132.09	122.59
1	F	105	PRO	CA-C-N	7.15	135.42	121.41
1	F	105	PRO	C-N-CA	7.15	135.42	121.41
1	E	181	THR	N-CA-CB	7.15	122.57	110.49
1	D	146	SER	CA-CB-OG	-7.14	96.81	111.10
1	C	75	ASN	OD1-CG-ND2	7.14	129.74	122.60
1	E	129	TYR	CA-C-N	7.14	135.17	121.54
1	E	129	TYR	C-N-CA	7.14	135.17	121.54
1	F	23	LEU	CA-C-N	-7.14	108.49	121.69
1	F	23	LEU	C-N-CA	-7.14	108.49	121.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	125	ASN	OD1-CG-ND2	7.14	129.74	122.60
1	B	170	ARG	CA-C-O	7.13	130.71	120.51
1	D	196	LEU	CD1-CG-CD2	-7.13	95.10	110.80
1	B	143	ALA	O-C-N	-7.13	113.10	122.59
1	D	129	TYR	CE1-CZ-CE2	7.13	134.57	120.30
1	C	219	LEU	CA-CB-CG	7.13	141.25	116.30
1	D	221	PRO	CA-C-O	7.13	128.98	119.00
1	E	51	ASN	O-C-N	7.13	132.03	123.33
1	E	128	LEU	N-CA-CB	-7.13	100.31	110.58
1	A	163	VAL	O-C-N	7.13	131.07	123.02
1	B	188	GLN	CA-CB-CG	7.13	128.35	114.10
1	E	210	ARG	CA-C-N	7.13	135.15	121.54
1	E	210	ARG	C-N-CA	7.13	135.15	121.54
1	E	222	ASP	N-CA-C	-7.13	101.76	110.88
1	D	77	ILE	CA-C-N	7.12	134.20	121.66
1	D	77	ILE	C-N-CA	7.12	134.20	121.66
1	E	197	THR	CA-CB-CG2	7.12	122.61	110.50
1	F	103	TYR	N-CA-CB	7.12	123.12	110.80
1	B	123	ASN	CA-C-O	7.12	132.90	120.80
1	E	14	PRO	CA-C-N	-7.11	109.96	122.26
1	E	14	PRO	C-N-CA	-7.11	109.96	122.26
1	E	2	ASN	CB-CG-OD1	-7.11	106.58	120.80
1	A	25	LEU	CB-CG-CD2	-7.11	89.38	110.70
1	D	100	VAL	CA-C-N	7.11	134.83	122.32
1	D	100	VAL	C-N-CA	7.11	134.83	122.32
1	A	196	LEU	CA-C-O	-7.11	113.08	121.11
1	A	60	ALA	CB-CA-C	7.10	121.67	109.24
1	D	204	TRP	CA-CB-CG	7.10	127.09	113.60
1	E	76	THR	CA-C-O	-7.10	112.92	120.80
1	E	201	ILE	N-CA-CB	-7.10	95.05	111.81
1	C	234	THR	OG1-CB-CG2	-7.10	95.10	109.30
1	D	157	GLU	N-CA-C	7.10	125.92	110.80
1	D	233	TRP	CA-C-O	-7.10	113.85	121.38
1	A	208	ASN	OD1-CG-ND2	-7.10	115.50	122.60
1	B	157	GLU	O-C-N	7.10	130.88	122.79
1	C	83	THR	CA-CB-OG1	-7.10	98.95	109.60
1	B	185	ALA	N-CA-C	-7.10	99.98	110.48
1	C	231	ALA	N-CA-C	7.10	125.92	110.80
1	E	20	ALA	CA-C-N	7.10	131.65	121.50
1	E	20	ALA	C-N-CA	7.10	131.65	121.50
1	C	183	CYS	CB-CA-C	7.10	125.66	110.19
1	A	164	LEU	CD1-CG-CD2	-7.09	95.19	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	223	ARG	NE-CZ-NH1	-7.09	114.41	121.50
1	D	190	ASN	CB-CG-OD1	7.09	134.99	120.80
1	E	64	SER	CA-CB-OG	7.09	125.29	111.10
1	F	161	ASN	CA-CB-CG	-7.09	105.50	112.60
1	E	107	LEU	N-CA-CB	-7.09	98.50	110.49
1	B	175	ASN	CB-CA-C	7.09	124.53	110.42
1	F	188	GLN	CG-CD-NE2	-7.09	105.76	116.40
1	F	168	ASP	O-C-N	-7.09	113.16	122.59
1	B	72	THR	OG1-CB-CG2	-7.09	95.13	109.30
1	D	204	TRP	CB-CG-CD1	-7.09	116.27	126.90
1	B	234	THR	CA-CB-CG2	7.08	122.54	110.50
1	D	44	ASP	CB-CA-C	7.08	124.51	110.42
1	D	220	GLN	CB-CG-CD	-7.08	100.56	112.60
1	C	107	LEU	CB-CG-CD2	-7.08	89.46	110.70
1	C	188	GLN	CA-C-O	7.08	128.41	120.70
1	A	163	VAL	N-CA-CB	7.07	125.44	112.36
1	C	43	SER	N-CA-CB	-7.07	98.54	110.49
1	D	190	ASN	CA-C-N	7.07	132.92	122.10
1	D	190	ASN	C-N-CA	7.07	132.92	122.10
1	B	83	THR	CB-CA-C	7.07	124.49	110.42
1	B	102	ILE	CA-CB-CG1	7.07	122.42	110.40
1	E	41	PHE	O-C-N	7.07	131.47	123.27
1	E	138	PRO	CA-C-N	-7.07	111.35	122.73
1	E	138	PRO	C-N-CA	-7.07	111.35	122.73
1	B	165	PHE	O-C-N	7.06	132.36	123.19
1	B	74	GLN	CG-CD-OE1	-7.06	106.69	120.80
1	B	6	GLY	N-CA-C	-7.05	96.46	113.18
1	C	107	LEU	CB-CA-C	7.05	122.65	110.23
1	D	211	SER	N-CA-CB	-7.05	100.36	110.44
1	C	72	THR	N-CA-CB	-7.04	99.81	110.73
1	F	92	LEU	N-CA-C	-7.04	97.73	109.07
1	B	97	ASP	N-CA-C	-7.04	105.51	112.97
1	C	26	SER	O-C-N	-7.04	113.23	122.59
1	C	203	VAL	N-CA-CB	-7.04	99.62	111.23
1	E	150	SER	N-CA-CB	7.04	122.90	110.37
1	A	189	PRO	CA-N-CD	-7.04	102.15	112.00
1	D	165	PHE	CA-C-O	-7.03	113.05	121.56
1	D	194	ASP	CA-C-O	-7.03	111.39	120.25
1	B	15	GLN	CB-CG-CD	7.03	124.55	112.60
1	E	42	ASP	O-C-N	7.03	132.40	123.12
1	F	79	TRP	CA-C-N	7.03	133.58	122.62
1	F	79	TRP	C-N-CA	7.03	133.58	122.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	84	LYS	CB-CA-C	-7.02	96.45	110.42
1	E	109	ASP	N-CA-C	-7.02	98.64	109.24
1	E	127	ILE	CG1-CB-CG2	7.02	131.76	110.70
1	B	84	LYS	O-C-N	-7.02	114.80	123.36
1	C	76	THR	O-C-N	-7.02	113.95	122.65
1	D	147	LEU	CA-C-O	7.02	130.54	120.51
1	E	53	ALA	CA-C-N	7.01	132.27	120.91
1	E	53	ALA	C-N-CA	7.01	132.27	120.91
1	C	203	VAL	N-CA-C	-7.01	94.75	109.34
1	D	212	ALA	CA-C-O	-7.01	112.93	120.92
1	E	210	ARG	O-C-N	-7.01	113.26	122.59
1	A	52	THR	CA-CB-CG2	7.01	122.42	110.50
1	C	168	ASP	CA-CB-CG	-7.01	105.59	112.60
1	C	181	THR	CA-CB-CG2	7.01	122.42	110.50
1	C	199	GLN	CA-C-N	7.01	134.93	121.54
1	C	199	GLN	C-N-CA	7.01	134.93	121.54
1	D	159	ASP	O-C-N	-7.01	113.27	122.59
1	C	97	ASP	N-CA-C	-7.01	104.34	113.17
1	A	161	ASN	OD1-CG-ND2	7.00	129.60	122.60
1	B	31	THR	CA-C-N	-7.00	111.56	121.72
1	B	31	THR	C-N-CA	-7.00	111.56	121.72
1	B	216	VAL	CG1-CB-CG2	-7.00	95.40	110.80
1	D	68	LEU	CD1-CG-CD2	-7.00	95.40	110.80
1	B	197	THR	N-CA-CB	-7.00	98.77	110.32
1	D	172	TRP	CE2-CD2-CE3	-7.00	111.80	118.80
1	F	5	PHE	O-C-N	-7.00	115.04	123.16
1	A	126	SER	N-CA-CB	7.00	121.62	110.85
1	A	222	ASP	O-C-N	7.00	131.40	121.95
1	C	131	THR	CA-CB-CG2	7.00	122.39	110.50
1	C	206	SER	N-CA-CB	-7.00	98.14	110.39
1	D	39	VAL	CG1-CB-CG2	-7.00	95.41	110.80
1	E	144	THR	OG1-CB-CG2	7.00	123.29	109.30
1	F	13	HIS	CB-CA-C	7.00	125.05	110.50
1	B	161	ASN	O-C-N	6.99	130.82	122.85
1	F	80	SER	N-CA-C	-6.99	98.45	109.50
1	F	191	GLY	O-C-N	6.99	131.31	122.43
1	A	100	VAL	O-C-N	6.99	130.37	123.03
1	D	95	GLN	CB-CA-C	6.99	118.93	108.86
1	F	79	TRP	CB-CG-CD2	6.99	136.59	126.80
1	F	168	ASP	CA-C-O	6.99	130.51	120.51
1	A	159	ASP	CB-CG-OD2	6.99	134.48	118.40
1	B	147	LEU	CB-CA-C	-6.99	96.51	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	206	SER	CB-CA-C	6.99	120.81	109.07
1	C	201	ILE	N-CA-C	6.99	118.19	107.78
1	D	223	ARG	NE-CZ-NH2	6.99	125.49	119.20
1	B	136	ASN	O-C-N	-6.98	111.83	123.00
1	A	158	THR	CA-CB-CG2	-6.98	98.63	110.50
1	C	169	ASP	CA-C-N	6.98	134.87	121.54
1	C	169	ASP	C-N-CA	6.98	134.87	121.54
1	B	105	PRO	O-C-N	6.98	132.06	122.64
1	E	26	SER	N-CA-CB	-6.98	98.70	110.49
1	D	226	ALA	N-CA-CB	6.97	123.62	111.00
1	E	51	ASN	CA-C-N	6.97	132.38	123.03
1	E	51	ASN	C-N-CA	6.97	132.38	123.03
1	E	227	ILE	CB-CA-C	6.97	119.03	110.73
1	A	154	LEU	CA-C-O	6.97	127.99	120.32
1	B	123	ASN	O-C-N	-6.97	111.84	123.00
1	E	183	CYS	O-C-N	6.97	131.86	122.59
1	E	194	ASP	N-CA-CB	-6.97	99.41	110.77
1	D	19	ALA	CA-C-O	-6.97	110.35	119.06
1	D	51	ASN	N-CA-C	6.96	121.01	111.54
1	E	62	LEU	N-CA-CB	6.96	122.12	110.77
1	B	72	THR	N-CA-CB	-6.96	99.32	110.46
1	B	98	ARG	CB-CA-C	6.96	122.54	111.48
1	F	127	ILE	CA-C-O	-6.95	112.09	120.78
1	C	86	SER	O-C-N	6.95	130.41	121.79
1	F	188	GLN	O-C-N	-6.95	114.23	121.60
1	E	22	SER	N-CA-CB	6.95	122.20	111.22
1	F	129	TYR	CB-CA-C	6.95	124.25	110.42
1	F	164	LEU	O-C-N	6.95	131.40	123.27
1	A	109	ASP	CB-CA-C	-6.94	98.00	110.36
1	D	144	THR	CA-CB-CG2	6.94	122.30	110.50
1	F	152	TYR	CE1-CZ-OH	-6.94	99.08	119.90
1	B	62	LEU	CA-C-O	-6.94	112.81	120.38
1	F	201	ILE	N-CA-CB	-6.94	100.81	112.47
1	C	223	ARG	CA-C-O	6.94	130.43	120.51
1	F	169	ASP	O-C-N	-6.94	114.90	123.36
1	C	172	TRP	CZ3-CH2-CZ2	-6.94	112.48	121.50
1	B	215	TYR	CB-CA-C	-6.93	95.58	109.79
1	C	43	SER	CA-C-N	-6.93	112.51	122.77
1	C	43	SER	C-N-CA	-6.93	112.51	122.77
1	D	13	HIS	CB-CG-ND1	-6.93	112.30	122.70
1	D	199	GLN	O-C-N	-6.93	115.20	123.03
1	F	141	LEU	N-CA-C	6.93	120.96	108.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	102	ILE	CA-CB-CG2	6.93	122.27	110.50
1	E	80	SER	N-CA-C	-6.93	99.34	109.18
1	F	7	LEU	N-CA-C	6.93	125.55	110.80
1	A	221	PRO	CA-C-O	6.92	133.20	120.60
1	B	45	VAL	N-CA-C	-6.92	94.94	109.34
1	D	112	THR	N-CA-CB	-6.92	96.27	110.67
1	B	63	GLN	CA-C-O	6.92	129.99	121.89
1	E	109	ASP	CA-C-O	-6.92	113.58	121.40
1	A	97	ASP	CB-CG-OD2	-6.92	102.49	118.40
1	D	103	TYR	CB-CG-CD1	6.92	131.17	120.80
1	E	196	LEU	O-C-N	6.91	132.22	123.23
1	C	97	ASP	OD1-CG-OD2	-6.91	106.32	122.90
1	D	75	ASN	CA-C-O	-6.91	112.39	119.78
1	E	87	ILE	N-CA-CB	-6.91	99.83	111.23
1	D	190	ASN	CB-CA-C	6.91	121.63	109.75
1	F	161	ASN	OD1-CG-ND2	6.91	129.51	122.60
1	B	64	SER	CA-C-N	6.90	132.81	122.87
1	B	64	SER	C-N-CA	6.90	132.81	122.87
1	D	29	ARG	CB-CA-C	-6.90	95.68	109.35
1	B	166	ASP	CA-C-O	-6.90	110.64	120.51
1	F	193	MET	CB-CG-SD	-6.90	92.00	112.70
1	B	9	HIS	CA-C-O	6.90	127.42	119.35
1	D	103	TYR	CA-C-O	6.89	127.81	120.36
1	A	201	ILE	CA-CB-CG1	6.89	122.11	110.40
1	B	169	ASP	CB-CA-C	6.89	121.53	109.89
1	C	47	VAL	CA-C-N	-6.89	109.83	121.75
1	C	47	VAL	C-N-CA	-6.89	109.83	121.75
1	C	72	THR	CA-C-O	6.89	127.72	119.59
1	D	37	ASN	CB-CG-OD1	-6.89	107.02	120.80
1	B	129	TYR	OH-CZ-CE2	-6.89	99.24	119.90
1	D	190	ASN	N-CA-C	-6.89	103.01	113.89
1	B	164	LEU	N-CA-CB	6.88	122.80	110.83
1	E	109	ASP	CB-CG-OD1	6.88	134.23	118.40
1	A	41	PHE	CD1-CE1-CZ	-6.88	107.62	120.00
1	E	88	GLY	CA-C-N	-6.88	109.02	122.02
1	E	88	GLY	C-N-CA	-6.88	109.02	122.02
1	A	141	LEU	CA-C-O	6.88	127.88	120.38
1	C	108	TRP	CB-CG-CD2	-6.88	117.17	126.80
1	B	128	LEU	CB-CA-C	6.87	124.62	110.40
1	D	87	ILE	CA-CB-CG2	6.87	122.18	110.50
1	F	219	LEU	CB-CG-CD1	6.87	131.31	110.70
1	D	39	VAL	N-CA-CB	6.87	122.62	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	172	TRP	CA-C-O	-6.87	112.33	120.43
1	E	145	GLN	CA-C-N	6.86	134.65	121.54
1	E	145	GLN	C-N-CA	6.86	134.65	121.54
1	C	223	ARG	O-C-N	-6.86	113.47	122.59
1	E	104	GLY	N-CA-C	6.86	126.34	112.34
1	F	2	ASN	CA-CB-CG	-6.86	105.74	112.60
1	D	234	THR	N-CA-CB	-6.86	100.21	111.66
1	E	152	TYR	CA-CB-CG	6.86	126.24	113.90
1	E	198	ASN	CB-CG-OD1	6.86	134.51	120.80
1	B	93	VAL	CA-CB-CG1	6.86	122.06	110.40
1	E	121	ALA	CA-C-N	6.86	134.63	121.54
1	E	121	ALA	C-N-CA	6.86	134.63	121.54
1	F	56	THR	N-CA-C	6.85	119.49	109.07
1	C	122	ASN	N-CA-CB	6.85	122.07	110.49
1	F	163	VAL	CA-CB-CG2	-6.85	98.75	110.40
1	C	145	GLN	N-CA-CB	-6.85	99.29	110.59
1	D	79	TRP	CZ3-CH2-CZ2	-6.85	112.59	121.50
1	D	108	TRP	CH2-CZ2-CE2	6.85	126.41	117.50
1	D	113	SER	CA-C-N	6.85	134.03	121.70
1	D	113	SER	C-N-CA	6.85	134.03	121.70
1	C	192	ARG	NE-CZ-NH2	-6.85	113.03	119.20
1	E	218	VAL	O-C-N	6.85	130.60	123.20
1	F	107	LEU	O-C-N	-6.85	113.48	122.59
1	F	141	LEU	CA-C-N	6.85	139.05	123.16
1	F	141	LEU	C-N-CA	6.85	139.05	123.16
1	A	179	LYS	CG-CD-CE	-6.85	95.55	111.30
1	C	4	LEU	CA-C-N	-6.85	110.52	122.64
1	C	4	LEU	C-N-CA	-6.85	110.52	122.64
1	C	195	VAL	CG1-CB-CG2	-6.84	95.75	110.80
1	D	62	LEU	CB-CA-C	-6.84	100.64	110.62
1	E	10	GLU	N-CA-C	-6.84	96.23	110.80
1	F	198	ASN	N-CA-CB	-6.84	98.93	110.49
1	A	135	ASP	OD1-CG-OD2	6.84	139.31	122.90
1	B	196	LEU	CB-CA-C	-6.84	96.82	110.42
1	C	3	ILE	CB-CG1-CD1	-6.84	99.44	113.80
1	F	93	VAL	CA-C-N	-6.83	113.48	123.05
1	F	93	VAL	C-N-CA	-6.83	113.48	123.05
1	C	98	ARG	CG-CD-NE	-6.83	96.97	112.00
1	D	28	PHE	CB-CA-C	6.83	124.02	110.42
1	D	233	TRP	O-C-N	6.83	130.43	123.26
1	E	158	THR	O-C-N	-6.83	113.08	122.30
1	A	84	LYS	N-CA-CB	-6.83	100.26	111.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	69	VAL	CA-CB-CG2	6.83	122.01	110.40
1	F	145	GLN	CG-CD-OE1	-6.83	107.14	120.80
1	C	103	TYR	CG-CD1-CE1	6.83	131.44	121.20
1	A	222	ASP	CA-CB-CG	-6.82	105.78	112.60
1	A	56	THR	N-CA-C	6.82	120.42	108.75
1	B	62	LEU	CB-CA-C	-6.82	97.92	109.72
1	C	65	ASP	N-CA-C	-6.82	104.53	112.92
1	F	77	ILE	N-CA-C	6.82	123.52	109.34
1	E	235	THR	CB-CA-C	6.82	124.10	109.10
1	F	31	THR	CA-CB-CG2	-6.82	98.91	110.50
1	D	153	ARG	O-C-N	6.81	131.65	122.59
1	B	167	ARG	N-CA-C	-6.81	96.29	110.80
1	F	139	GLN	O-C-N	6.81	131.08	122.22
1	A	73	ALA	CA-C-N	-6.81	110.10	122.50
1	A	73	ALA	C-N-CA	-6.81	110.10	122.50
1	A	110	SER	N-CA-C	6.81	118.78	111.36
1	A	99	THR	CA-C-O	-6.81	113.59	121.49
1	A	142	HIS	CA-C-N	-6.80	112.73	122.94
1	A	142	HIS	C-N-CA	-6.80	112.73	122.94
1	A	211	SER	CB-CA-C	6.80	119.17	109.71
1	D	30	PHE	CA-C-N	-6.80	111.38	122.81
1	D	30	PHE	C-N-CA	-6.80	111.38	122.81
1	B	18	HIS	CG-ND1-CE1	-6.80	97.73	109.30
1	A	195	VAL	CG1-CB-CG2	6.80	125.76	110.80
1	F	2	ASN	CB-CG-ND2	-6.80	106.20	116.40
1	A	115	LYS	CB-CA-C	6.80	121.44	110.29
1	C	98	ARG	NE-CZ-NH2	6.80	125.32	119.20
1	B	167	ARG	O-C-N	6.80	131.63	122.59
1	A	212	ALA	CA-C-O	6.80	130.23	120.51
1	C	23	LEU	CA-C-O	-6.80	112.97	120.38
1	D	96	PRO	N-CA-C	-6.80	105.00	113.84
1	E	9	HIS	N-CA-C	6.79	125.27	110.80
1	A	59	ARG	CA-C-O	-6.79	113.51	121.46
1	A	147	LEU	O-C-N	-6.79	113.56	122.59
1	E	175	ASN	CB-CG-OD1	6.79	134.39	120.80
1	B	131	THR	CA-CB-OG1	-6.79	99.41	109.60
1	A	12	SER	O-C-N	6.79	131.30	123.29
1	D	8	SER	O-C-N	6.79	131.62	122.59
1	A	188	GLN	CA-CB-CG	-6.79	100.53	114.10
1	C	102	ILE	N-CA-C	-6.79	102.65	110.05
1	C	207	GLY	O-C-N	-6.79	113.88	122.70
1	F	162	LEU	CA-C-N	-6.78	109.76	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	162	LEU	C-N-CA	-6.78	109.76	121.97
1	F	50	SER	CA-CB-OG	-6.78	97.54	111.10
1	A	7	LEU	CA-C-N	6.78	130.50	120.87
1	A	7	LEU	C-N-CA	6.78	130.50	120.87
1	B	196	LEU	N-CA-C	6.78	125.23	110.80
1	D	20	ALA	CA-C-O	-6.78	111.56	122.20
1	A	77	ILE	CB-CG1-CD1	6.77	128.02	113.80
1	B	219	LEU	CB-CA-C	-6.77	98.11	109.48
1	C	226	ALA	CA-C-O	-6.77	113.21	121.06
1	F	172	TRP	N-CA-CB	-6.77	99.01	110.99
1	A	59	ARG	CD-NE-CZ	6.77	133.88	124.40
1	D	129	TYR	O-C-N	-6.77	113.59	122.59
1	E	28	PHE	CD1-CG-CD2	-6.77	108.45	118.60
1	E	235	THR	OG1-CB-CG2	-6.76	95.77	109.30
1	C	209	SER	CA-C-O	6.76	129.74	121.56
1	E	197	THR	CB-CA-C	-6.76	95.45	110.19
1	F	79	TRP	CB-CA-C	-6.76	97.78	110.16
1	E	184	ARG	CB-CG-CD	6.76	126.85	111.30
1	A	134	ASN	OD1-CG-ND2	-6.76	115.84	122.60
1	C	110	SER	N-CA-C	6.76	118.73	111.36
1	F	59	ARG	CG-CD-NE	6.76	126.87	112.00
1	F	215	TYR	CA-CB-CG	-6.76	101.74	113.90
1	D	87	ILE	CA-C-N	-6.75	108.17	121.41
1	D	87	ILE	C-N-CA	-6.75	108.17	121.41
1	E	2	ASN	N-CA-CB	-6.75	98.73	111.43
1	E	7	LEU	CB-CA-C	-6.75	96.98	110.42
1	B	145	GLN	CG-CD-NE2	6.75	126.53	116.40
1	C	49	ALA	N-CA-C	6.75	125.18	110.80
1	F	108	TRP	CB-CA-C	6.75	124.54	109.56
1	C	77	ILE	CG1-CB-CG2	-6.75	90.46	110.70
1	C	34	SER	O-C-N	6.74	129.87	122.11
1	D	164	LEU	CA-C-N	-6.74	111.05	122.92
1	D	164	LEU	C-N-CA	-6.74	111.05	122.92
1	D	162	LEU	CA-C-O	6.74	127.79	120.58
1	C	103	TYR	N-CA-CB	-6.74	98.80	111.00
1	E	206	SER	N-CA-CB	-6.74	101.30	110.67
1	D	188	GLN	CB-CA-C	6.74	123.44	110.17
1	B	184	ARG	CA-C-O	6.74	127.97	120.70
1	D	156	MET	N-CA-CB	-6.74	101.42	111.25
1	E	143	ALA	N-CA-C	-6.74	96.45	110.80
1	A	147	LEU	N-CA-CB	6.73	121.87	110.49
1	A	84	LYS	CB-CA-C	6.73	124.93	110.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	98	ARG	N-CA-CB	-6.73	101.96	112.13
1	C	15	GLN	N-CA-C	-6.73	104.64	112.92
1	C	162	LEU	CB-CG-CD2	6.73	130.89	110.70
1	E	16	THR	N-CA-CB	-6.73	99.00	111.52
1	A	200	ASN	CA-CB-CG	6.73	119.33	112.60
1	B	184	ARG	CB-CA-C	-6.73	96.52	109.37
1	D	31	THR	OG1-CB-CG2	-6.73	95.84	109.30
1	E	1	ASN	CB-CG-OD1	6.73	134.26	120.80
1	F	147	LEU	CA-C-O	6.73	130.13	120.51
1	B	8	SER	CA-C-N	6.73	133.64	122.54
1	B	8	SER	C-N-CA	6.73	133.64	122.54
1	B	218	VAL	CA-CB-CG2	-6.73	98.97	110.40
1	C	120	VAL	CB-CA-C	-6.72	100.26	111.29
1	A	85	GLY	O-C-N	6.72	131.44	122.70
1	C	196	LEU	CA-CB-CG	6.72	139.83	116.30
1	A	148	GLN	N-CA-C	6.72	119.36	108.41
1	B	172	TRP	CZ3-CH2-CZ2	-6.72	112.77	121.50
1	D	67	LEU	CB-CG-CD1	6.72	130.86	110.70
1	C	46	ARG	CA-CB-CG	6.72	127.53	114.10
1	C	203	VAL	CA-C-N	-6.72	110.12	121.94
1	C	203	VAL	C-N-CA	-6.72	110.12	121.94
1	E	8	SER	CA-CB-OG	-6.72	97.67	111.10
1	E	104	GLY	CA-C-O	-6.72	111.92	121.52
1	A	76	THR	CA-CB-OG1	6.71	119.67	109.60
1	B	98	ARG	NH1-CZ-NH2	-6.71	110.57	119.30
1	D	138	PRO	CA-CB-CG	-6.71	91.75	104.50
1	F	125	ASN	N-CA-C	6.71	125.10	110.80
1	D	65	ASP	CB-CG-OD1	6.71	133.83	118.40
1	E	156	MET	CA-CB-CG	6.71	127.51	114.10
1	C	201	ILE	CA-CB-CG1	-6.71	99.00	110.40
1	F	32	MET	N-CA-CB	-6.70	100.05	110.57
1	A	192	ARG	CB-CA-C	6.70	121.49	111.17
1	D	181	THR	CA-CB-OG1	-6.70	99.55	109.60
1	E	209	SER	CA-C-O	6.70	130.09	120.51
1	A	10	GLU	CG-CD-OE2	-6.70	103.00	118.40
1	B	4	LEU	N-CA-C	6.70	119.43	108.52
1	E	234	THR	CA-CB-CG2	6.70	121.88	110.50
1	F	233	TRP	CA-C-N	6.70	136.87	121.87
1	F	233	TRP	C-N-CA	6.70	136.87	121.87
1	B	224	ASN	CA-C-N	6.69	134.70	122.92
1	B	224	ASN	C-N-CA	6.69	134.70	122.92
1	E	195	VAL	CA-CB-CG1	-6.69	99.02	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	15	GLN	OE1-CD-NE2	-6.69	115.91	122.60
1	B	181	THR	OG1-CB-CG2	-6.69	95.92	109.30
1	E	59	ARG	CA-C-O	6.69	130.08	120.51
1	E	152	TYR	CA-C-O	6.69	128.82	121.06
1	F	136	ASN	N-CA-C	6.68	129.72	111.00
1	E	233	TRP	CA-C-N	-6.68	108.78	121.54
1	E	233	TRP	C-N-CA	-6.68	108.78	121.54
1	C	187	LEU	O-C-N	-6.68	112.84	122.99
1	C	15	GLN	OE1-CD-NE2	-6.68	115.92	122.60
1	E	225	LEU	CD1-CG-CD2	-6.68	96.11	110.80
1	C	41	PHE	N-CA-CB	-6.68	99.53	110.41
1	C	144	THR	CA-CB-OG1	6.68	119.61	109.60
1	F	226	ALA	CA-C-O	-6.68	113.55	120.89
1	F	49	ALA	CA-C-N	6.67	134.28	121.54
1	F	49	ALA	C-N-CA	6.67	134.28	121.54
1	F	158	THR	OG1-CB-CG2	6.67	122.65	109.30
1	B	207	GLY	O-C-N	-6.67	114.03	122.70
1	C	121	ALA	CB-CA-C	6.67	121.99	110.72
1	F	208	ASN	CB-CA-C	-6.67	96.63	109.37
1	D	220	GLN	O-C-N	6.67	128.99	121.32
1	C	188	GLN	OE1-CD-NE2	6.67	129.26	122.60
1	E	192	ARG	NH1-CZ-NH2	6.67	127.97	119.30
1	E	55	ALA	CA-C-N	-6.66	110.22	121.94
1	E	55	ALA	C-N-CA	-6.66	110.22	121.94
1	D	47	VAL	CG1-CB-CG2	-6.66	96.15	110.80
1	D	28	PHE	N-CA-C	-6.66	96.62	110.80
1	D	207	GLY	N-CA-C	6.66	128.96	113.18
1	F	83	THR	OG1-CB-CG2	-6.66	95.98	109.30
1	F	147	LEU	CB-CG-CD2	-6.66	90.72	110.70
1	F	211	SER	CB-CA-C	-6.66	97.17	110.42
1	F	197	THR	OG1-CB-CG2	6.65	122.61	109.30
1	B	32	MET	CA-C-O	-6.65	112.77	120.49
1	B	176	THR	CA-C-N	6.65	133.67	121.70
1	B	176	THR	C-N-CA	6.65	133.67	121.70
1	E	231	ALA	N-CA-C	-6.65	96.64	110.80
1	C	82	GLY	O-C-N	-6.64	114.06	122.70
1	E	2	ASN	CA-CB-CG	6.64	119.25	112.60
1	E	141	LEU	CB-CG-CD2	6.64	130.63	110.70
1	E	233	TRP	N-CA-CB	6.64	122.75	110.99
1	C	54	GLY	O-C-N	-6.64	117.13	122.51
1	C	102	ILE	N-CA-CB	-6.64	100.36	111.38
1	A	9	HIS	O-C-N	-6.64	113.76	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	98	ARG	N-CA-C	6.64	120.70	111.74
1	E	168	ASP	OD1-CG-OD2	-6.64	106.97	122.90
1	C	177	ALA	CA-C-N	6.63	134.41	121.41
1	C	177	ALA	C-N-CA	6.63	134.41	121.41
1	F	99	THR	CA-CB-OG1	6.63	119.55	109.60
1	F	153	ARG	NE-CZ-NH2	6.63	125.17	119.20
1	D	78	ARG	N-CA-C	-6.63	105.01	113.23
1	E	139	GLN	N-CA-CB	-6.63	100.82	110.70
1	A	29	ARG	CB-CA-C	-6.63	97.23	110.42
1	A	97	ASP	N-CA-CB	-6.63	99.29	110.49
1	D	81	SER	CA-C-O	6.63	128.77	121.02
1	D	140	THR	CA-CB-OG1	-6.62	99.66	109.60
1	D	166	ASP	CA-C-O	-6.62	111.31	120.52
1	B	221	PRO	O-C-N	-6.62	114.16	122.17
1	B	222	ASP	N-CA-C	-6.62	104.68	112.89
1	E	69	VAL	CA-C-N	-6.62	113.83	123.10
1	E	69	VAL	C-N-CA	-6.62	113.83	123.10
1	B	28	PHE	O-C-N	-6.62	115.55	123.03
1	D	169	ASP	CB-CG-OD1	-6.62	103.18	118.40
1	A	90	TYR	CA-C-O	-6.62	113.56	120.70
1	E	216	VAL	CA-CB-CG2	6.62	121.65	110.40
1	A	186	VAL	CA-C-O	-6.61	112.59	121.32
1	A	221	PRO	N-CA-C	-6.61	98.85	112.47
1	B	48	TRP	CA-C-N	-6.61	108.91	121.54
1	B	48	TRP	C-N-CA	-6.61	108.91	121.54
1	C	81	SER	CB-CA-C	6.61	120.66	109.55
1	A	38	LEU	CB-CA-C	-6.61	100.17	111.41
1	B	10	GLU	CG-CD-OE2	6.61	133.60	118.40
1	D	231	ALA	CB-CA-C	-6.61	94.89	109.56
1	F	23	LEU	N-CA-C	6.61	120.81	110.17
1	B	218	VAL	CA-C-N	6.61	132.49	122.65
1	B	218	VAL	C-N-CA	6.61	132.49	122.65
1	E	129	TYR	CD1-CE1-CZ	-6.61	107.71	119.60
1	B	167	ARG	NE-CZ-NH2	6.60	125.14	119.20
1	D	213	GLY	CA-C-N	-6.60	108.80	122.07
1	D	213	GLY	C-N-CA	-6.60	108.80	122.07
1	B	5	PHE	CB-CG-CD1	6.60	131.93	120.70
1	A	13	HIS	ND1-CG-CD2	-6.60	99.50	106.10
1	B	63	GLN	CB-CA-C	-6.60	98.03	110.51
1	F	92	LEU	CA-C-N	-6.60	113.20	122.71
1	F	92	LEU	C-N-CA	-6.60	113.20	122.71
1	D	110	SER	CB-CA-C	6.60	121.12	110.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	23	LEU	O-C-N	6.60	131.07	123.29
1	F	21	GLN	CB-CA-C	6.60	120.65	109.50
1	F	43	SER	CA-CB-OG	6.60	124.30	111.10
1	F	174	THR	CA-CB-CG2	-6.60	99.29	110.50
1	F	164	LEU	CD1-CG-CD2	-6.59	96.29	110.80
1	C	100	VAL	O-C-N	6.59	129.52	123.19
1	C	141	LEU	CD1-CG-CD2	-6.59	96.30	110.80
1	A	215	TYR	N-CA-C	6.59	119.03	110.53
1	B	144	THR	CB-CA-C	6.59	123.53	110.42
1	B	130	SER	CA-C-O	-6.59	111.09	120.51
1	D	166	ASP	CB-CG-OD1	6.59	133.55	118.40
1	D	85	GLY	CA-C-O	-6.58	112.21	121.16
1	E	175	ASN	O-C-N	-6.58	115.08	122.91
1	D	102	ILE	CG1-CB-CG2	-6.58	90.96	110.70
1	D	29	ARG	CB-CG-CD	6.58	126.43	111.30
1	D	199	GLN	CA-C-N	-6.58	112.47	122.21
1	D	199	GLN	C-N-CA	-6.58	112.47	122.21
1	B	18	HIS	CA-C-O	6.58	129.91	120.51
1	A	151	PRO	N-CA-CB	-6.58	96.35	103.25
1	C	208	ASN	CA-C-O	-6.58	111.97	120.25
1	E	35	ASP	CA-C-O	6.58	131.32	122.51
1	E	86	SER	CA-C-N	-6.57	110.14	121.97
1	E	86	SER	C-N-CA	-6.57	110.14	121.97
1	D	33	GLN	CG-CD-NE2	-6.57	106.54	116.40
1	E	32	MET	CA-C-O	-6.57	111.11	120.51
1	E	123	ASN	CA-C-O	6.57	129.55	121.60
1	A	134	ASN	N-CA-CB	6.57	121.67	110.50
1	B	144	THR	CA-CB-CG2	6.57	121.66	110.50
1	E	136	ASN	CA-C-N	6.57	134.10	122.48
1	E	136	ASN	C-N-CA	6.57	134.10	122.48
1	B	91	VAL	O-C-N	-6.56	116.11	123.20
1	C	225	LEU	N-CA-CB	-6.56	100.27	110.57
1	F	204	TRP	CG-CD2-CE3	-6.56	127.34	133.90
1	F	37	ASN	CB-CG-ND2	-6.56	106.56	116.40
1	D	216	VAL	CA-C-N	-6.56	112.51	122.81
1	D	216	VAL	C-N-CA	-6.56	112.51	122.81
1	F	49	ALA	O-C-N	6.56	130.43	123.42
1	A	31	THR	OG1-CB-CG2	-6.55	96.19	109.30
1	B	149	LEU	CB-CG-CD2	6.55	130.37	110.70
1	B	164	LEU	CA-C-N	-6.55	112.52	122.81
1	B	164	LEU	C-N-CA	-6.55	112.52	122.81
1	B	201	ILE	CA-C-O	6.55	128.97	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	163	VAL	CB-CA-C	6.55	121.49	110.95
1	D	209	SER	CB-CA-C	-6.55	99.42	110.43
1	C	185	ALA	N-CA-C	-6.54	99.25	109.72
1	B	83	THR	CA-CB-OG1	6.54	119.41	109.60
1	D	166	ASP	CB-CA-C	-6.54	101.11	111.17
1	E	10	GLU	CB-CG-CD	6.53	123.71	112.60
1	B	161	ASN	N-CA-CB	-6.53	100.52	110.45
1	F	87	ILE	CG1-CB-CG2	6.53	130.29	110.70
1	B	126	SER	N-CA-C	6.53	119.14	110.53
1	F	198	ASN	CA-C-N	6.53	132.48	122.23
1	F	198	ASN	C-N-CA	6.53	132.48	122.23
1	F	14	PRO	CA-C-N	-6.53	111.98	122.23
1	F	14	PRO	C-N-CA	-6.53	111.98	122.23
1	B	69	VAL	N-CA-C	-6.52	98.74	108.46
1	C	188	GLN	CB-CA-C	6.52	119.77	109.27
1	F	187	LEU	CA-C-O	6.52	128.30	120.28
1	E	109	ASP	CA-CB-CG	6.52	119.12	112.60
1	E	234	THR	CA-CB-OG1	-6.52	99.83	109.60
1	A	199	GLN	CA-C-O	-6.52	111.19	120.51
1	A	217	PHE	O-C-N	6.52	131.05	123.30
1	F	144	THR	N-CA-C	-6.52	96.92	110.80
1	C	162	LEU	CA-C-O	-6.51	113.13	120.43
1	C	196	LEU	CB-CA-C	-6.51	97.99	110.24
1	A	4	LEU	N-CA-CB	-6.51	99.87	110.81
1	C	48	TRP	CB-CA-C	6.51	124.45	110.45
1	C	212	ALA	N-CA-C	6.51	124.67	110.80
1	E	164	LEU	N-CA-CB	-6.51	100.33	110.55
1	C	190	ASN	O-C-N	-6.51	115.49	122.19
1	A	10	GLU	N-CA-CB	6.51	121.49	110.49
1	D	15	GLN	CB-CG-CD	6.50	123.66	112.60
1	E	177	ALA	N-CA-C	-6.50	99.23	109.50
1	A	225	LEU	N-CA-C	-6.50	99.12	109.59
1	B	194	ASP	CB-CG-OD2	-6.50	103.45	118.40
1	B	201	ILE	CA-CB-CG2	6.50	121.55	110.50
1	E	6	GLY	CA-C-N	-6.50	109.13	121.54
1	E	6	GLY	C-N-CA	-6.50	109.13	121.54
1	F	219	LEU	CD1-CG-CD2	-6.50	96.50	110.80
1	A	223	ARG	CA-C-O	6.50	129.08	121.54
1	A	228	TYR	CD1-CG-CD2	-6.50	108.35	118.10
1	C	71	LEU	N-CA-C	-6.50	99.59	109.85
1	F	147	LEU	CB-CG-CD1	6.50	130.19	110.70
1	F	233	TRP	N-CA-CB	-6.50	100.95	111.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	174	THR	CA-CB-OG1	6.49	119.33	109.60
1	C	89	ASN	CA-CB-CG	-6.49	106.11	112.60
1	C	200	ASN	OD1-CG-ND2	-6.49	116.11	122.60
1	A	46	ARG	N-CA-CB	-6.49	99.70	110.47
1	A	154	LEU	CB-CG-CD2	6.49	130.16	110.70
1	A	233	TRP	CB-CG-CD2	6.48	135.88	126.80
1	B	30	PHE	N-CA-CB	-6.48	99.71	110.47
1	D	158	THR	CA-CB-CG2	-6.48	99.48	110.50
1	F	66	GLY	N-CA-C	6.48	124.89	114.90
1	A	24	GLU	O-C-N	-6.48	115.58	123.30
1	A	153	ARG	NE-CZ-NH1	-6.48	115.02	121.50
1	B	71	LEU	CA-CB-CG	6.48	138.99	116.30
1	C	184	ARG	CA-C-N	-6.48	112.63	122.81
1	C	184	ARG	C-N-CA	-6.48	112.63	122.81
1	D	107	LEU	N-CA-C	-6.48	96.99	110.80
1	A	14	PRO	N-CA-CB	6.48	109.73	102.60
1	E	91	VAL	CA-C-O	-6.48	113.63	120.76
1	D	169	ASP	CB-CG-OD2	6.48	133.30	118.40
1	E	184	ARG	N-CA-C	-6.48	99.19	109.23
1	C	215	TYR	CB-CA-C	-6.48	99.11	111.48
1	F	47	VAL	CA-CB-CG2	-6.48	99.39	110.40
1	F	199	GLN	N-CA-CB	-6.48	101.94	110.88
1	A	216	VAL	CA-C-O	-6.48	114.42	121.28
1	F	125	ASN	CA-C-O	-6.48	111.25	120.51
1	A	8	SER	N-CA-CB	-6.47	100.45	109.97
1	D	127	ILE	CA-CB-CG2	-6.47	99.50	110.50
1	E	31	THR	CA-C-N	6.47	133.90	121.54
1	E	31	THR	C-N-CA	6.47	133.90	121.54
1	F	99	THR	CA-C-N	-6.47	114.02	122.37
1	F	99	THR	C-N-CA	-6.47	114.02	122.37
1	D	159	ASP	CA-C-N	6.47	131.79	122.35
1	D	159	ASP	C-N-CA	6.47	131.79	122.35
1	D	173	SER	CA-CB-OG	6.47	124.04	111.10
1	E	223	ARG	CA-C-O	6.47	129.76	120.51
1	C	197	THR	O-C-N	6.47	130.58	122.43
1	A	13	HIS	C-N-CD	6.46	134.82	120.60
1	C	140	THR	CB-CA-C	-6.46	97.56	110.42
1	D	90	TYR	O-C-N	6.46	131.19	122.59
1	E	46	ARG	O-C-N	-6.46	113.49	122.41
1	B	145	GLN	N-CA-CB	6.46	120.66	110.84
1	C	2	ASN	CA-C-N	-6.46	112.42	122.69
1	C	2	ASN	C-N-CA	-6.46	112.42	122.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	62	LEU	CA-C-N	-6.46	107.63	121.45
1	E	62	LEU	C-N-CA	-6.46	107.63	121.45
1	F	28	PHE	O-C-N	-6.46	115.09	122.97
1	E	27	SER	CB-CA-C	-6.46	97.57	110.42
1	F	137	HIS	CB-CG-ND1	6.46	132.39	122.70
1	D	233	TRP	CZ3-CH2-CZ2	6.46	129.89	121.50
1	F	185	ALA	CB-CA-C	6.46	123.27	110.42
1	A	78	ARG	NE-CZ-NH1	-6.45	115.05	121.50
1	F	224	ASN	CB-CG-ND2	6.45	126.08	116.40
1	A	165	PHE	CD1-CG-CD2	-6.45	108.92	118.60
1	B	210	ARG	CG-CD-NE	6.45	126.19	112.00
1	D	141	LEU	CB-CG-CD2	-6.45	91.35	110.70
1	E	161	ASN	CA-CB-CG	-6.45	106.15	112.60
1	B	220	GLN	CB-CG-CD	6.45	123.56	112.60
1	D	219	LEU	CA-CB-CG	6.45	138.86	116.30
1	A	203	VAL	N-CA-CB	-6.45	99.11	110.77
1	E	56	THR	O-C-N	6.45	130.95	123.41
1	C	203	VAL	CG1-CB-CG2	6.44	124.98	110.80
1	D	30	PHE	CG-CD1-CE1	6.44	131.65	120.70
1	E	25	LEU	CA-C-O	-6.44	110.09	120.85
1	B	104	GLY	CA-C-O	6.44	130.73	121.52
1	A	37	ASN	CA-C-N	6.44	133.34	123.23
1	A	37	ASN	C-N-CA	6.44	133.34	123.23
1	A	224	ASN	OD1-CG-ND2	-6.44	116.16	122.60
1	B	181	THR	CA-C-N	-6.44	108.79	121.41
1	B	181	THR	C-N-CA	-6.44	108.79	121.41
1	E	143	ALA	O-C-N	6.44	131.15	122.59
1	E	159	ASP	CA-CB-CG	-6.44	106.16	112.60
1	C	228	TYR	OH-CZ-CE2	6.44	139.21	119.90
1	C	34	SER	CA-C-N	6.43	133.83	121.54
1	C	34	SER	C-N-CA	6.43	133.83	121.54
1	E	184	ARG	CA-C-N	6.43	131.26	122.19
1	E	184	ARG	C-N-CA	6.43	131.26	122.19
1	F	49	ALA	CB-CA-C	-6.43	98.66	110.62
1	F	204	TRP	O-C-N	-6.43	115.39	122.92
1	A	49	ALA	CB-CA-C	6.43	125.16	111.91
1	B	224	ASN	CB-CG-ND2	-6.43	106.76	116.40
1	D	201	ILE	CA-CB-CG1	-6.42	99.48	110.40
1	A	163	VAL	CA-C-N	6.42	133.31	123.23
1	A	163	VAL	C-N-CA	6.42	133.31	123.23
1	E	146	SER	CA-CB-OG	-6.42	98.26	111.10
1	A	168	ASP	O-C-N	-6.42	114.05	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	196	LEU	CA-C-O	-6.42	114.11	121.68
1	F	204	TRP	CB-CG-CD1	6.42	136.53	126.90
1	F	108	TRP	CA-C-N	6.42	133.41	122.37
1	F	108	TRP	C-N-CA	6.42	133.41	122.37
1	C	37	ASN	O-C-N	6.42	131.21	123.13
1	A	156	MET	CA-CB-CG	6.41	126.93	114.10
1	B	132	GLN	CG-CD-OE1	6.41	133.63	120.80
1	D	70	ILE	CA-C-O	6.41	127.06	120.39
1	E	129	TYR	CD1-CG-CD2	-6.41	108.48	118.10
1	D	111	GLY	O-C-N	-6.41	115.12	122.42
1	B	127	ILE	CA-C-O	-6.40	112.78	120.78
1	C	116	GLY	O-C-N	-6.40	114.38	122.70
1	B	5	PHE	CB-CG-CD2	6.40	131.58	120.70
1	B	125	ASN	OD1-CG-ND2	-6.40	116.20	122.60
1	D	77	ILE	O-C-N	-6.40	114.57	122.57
1	B	198	ASN	O-C-N	-6.40	114.08	122.59
1	A	9	HIS	CB-CG-ND1	6.39	132.29	122.70
1	B	5	PHE	CG-CD1-CE1	6.39	131.57	120.70
1	C	235	THR	O-C-N	-6.39	116.29	123.13
1	B	67	LEU	N-CA-C	6.39	119.64	107.75
1	B	103	TYR	O-C-N	-6.39	115.81	123.03
1	B	172	TRP	CH2-CZ2-CE2	6.39	125.81	117.50
1	E	143	ALA	CA-C-O	-6.39	111.37	120.51
1	F	16	THR	CB-CA-C	-6.39	96.33	109.94
1	A	53	ALA	O-C-N	-6.39	114.38	122.43
1	B	101	THR	CB-CA-C	-6.39	96.03	109.38
1	E	70	ILE	CB-CG1-CD1	6.39	127.22	113.80
1	C	74	GLN	CA-C-O	-6.39	111.38	120.51
1	D	192	ARG	CG-CD-NE	6.39	126.05	112.00
1	B	195	VAL	CA-CB-CG1	6.38	121.25	110.40
1	C	198	ASN	N-CA-C	-6.38	104.40	111.36
1	C	39	VAL	CB-CA-C	-6.38	100.83	111.29
1	E	229	GLY	N-CA-C	6.38	128.30	113.18
1	B	86	SER	CA-C-N	6.38	133.45	121.97
1	B	86	SER	C-N-CA	6.38	133.45	121.97
1	C	168	ASP	N-CA-C	6.38	124.38	110.80
1	D	68	LEU	CA-C-N	-6.38	113.91	122.77
1	D	68	LEU	C-N-CA	-6.38	113.91	122.77
1	F	74	GLN	O-C-N	-6.37	114.04	122.20
1	F	83	THR	N-CA-CB	-6.37	101.25	110.36
1	F	207	GLY	O-C-N	-6.37	114.41	122.70
1	B	166	ASP	N-CA-C	-6.37	97.23	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	34	SER	N-CA-CB	-6.37	98.89	109.72
1	E	189	PRO	CA-N-CD	-6.37	103.08	112.00
1	B	224	ASN	CB-CA-C	6.37	125.55	111.09
1	E	225	LEU	O-C-N	-6.37	114.71	123.12
1	D	233	TRP	CB-CA-C	-6.37	98.69	111.17
1	E	14	PRO	CA-CB-CG	-6.37	92.40	104.50
1	F	56	THR	OG1-CB-CG2	-6.37	96.56	109.30
1	D	49	ALA	CA-C-N	6.37	133.27	122.26
1	D	49	ALA	C-N-CA	6.37	133.27	122.26
1	E	78	ARG	CB-CA-C	-6.37	96.89	110.32
1	C	82	GLY	CA-C-O	6.36	131.64	120.57
1	D	74	GLN	CG-CD-OE1	-6.36	108.07	120.80
1	C	25	LEU	CA-C-O	-6.36	111.43	120.15
1	A	105	PRO	CB-CA-C	-6.36	101.07	111.56
1	B	224	ASN	CB-CG-OD1	6.36	133.52	120.80
1	D	209	SER	CA-C-O	-6.36	114.11	121.10
1	A	24	GLU	CG-CD-OE1	6.36	133.02	118.40
1	C	228	TYR	CB-CG-CD1	6.36	130.33	120.80
1	A	192	ARG	O-C-N	-6.35	113.33	122.99
1	B	231	ALA	N-CA-C	-6.35	97.27	110.80
1	B	1	ASN	CB-CA-C	6.35	122.17	110.10
1	E	216	VAL	CA-CB-CG1	-6.35	99.61	110.40
1	F	58	CYS	CA-C-N	6.35	132.77	122.29
1	F	58	CYS	C-N-CA	6.35	132.77	122.29
1	D	67	LEU	O-C-N	-6.35	115.83	123.13
1	C	67	LEU	CA-C-O	-6.35	113.79	121.28
1	A	143	ALA	O-C-N	-6.34	114.98	123.23
1	B	75	ASN	N-CA-CB	-6.34	102.81	113.15
1	C	145	GLN	N-CA-C	-6.34	97.22	108.13
1	A	40	LEU	N-CA-CB	6.34	120.98	110.52
1	C	156	MET	CG-SD-CE	6.34	114.85	100.90
1	D	159	ASP	CA-C-O	6.34	129.58	120.51
1	D	176	THR	CA-C-N	-6.34	109.43	121.54
1	D	176	THR	C-N-CA	-6.34	109.43	121.54
1	E	235	THR	CA-CB-CG2	-6.34	99.72	110.50
1	B	183	CYS	CA-C-N	6.34	132.44	122.94
1	B	183	CYS	C-N-CA	6.34	132.44	122.94
1	A	129	TYR	CA-CB-CG	-6.33	102.50	113.90
1	D	50	SER	CB-CA-C	6.33	120.67	109.65
1	B	14	PRO	CB-CG-CD	-6.33	90.84	105.40
1	B	205	THR	OG1-CB-CG2	-6.33	96.64	109.30
1	F	163	VAL	CA-C-O	-6.33	112.87	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	221	PRO	CA-C-N	-6.33	112.55	123.25
1	A	221	PRO	C-N-CA	-6.33	112.55	123.25
1	A	228	TYR	CG-CD1-CE1	6.33	130.69	121.20
1	F	10	GLU	CA-CB-CG	-6.33	101.44	114.10
1	F	96	PRO	O-C-N	-6.33	114.10	122.64
1	C	19	ALA	CB-CA-C	6.32	123.21	109.99
1	A	204	TRP	CE2-CD2-CG	6.32	114.79	107.20
1	A	144	THR	O-C-N	6.32	128.64	121.88
1	B	105	PRO	CA-CB-CG	-6.32	92.49	104.50
1	D	146	SER	CA-C-N	6.32	133.61	121.54
1	D	146	SER	C-N-CA	6.32	133.61	121.54
1	B	123	ASN	CB-CG-ND2	6.32	125.88	116.40
1	B	82	GLY	CA-C-N	6.32	133.60	121.54
1	B	82	GLY	C-N-CA	6.32	133.60	121.54
1	E	64	SER	CA-C-N	6.32	133.60	121.54
1	E	64	SER	C-N-CA	6.32	133.60	121.54
1	F	1	ASN	CA-CB-CG	6.32	118.92	112.60
1	A	34	SER	CA-C-N	6.31	135.06	123.13
1	A	34	SER	C-N-CA	6.31	135.06	123.13
1	C	37	ASN	N-CA-CB	-6.31	99.99	110.47
1	D	164	LEU	O-C-N	6.31	130.42	123.22
1	A	128	LEU	CA-CB-CG	6.31	138.40	116.30
1	D	183	CYS	CA-CB-SG	6.31	128.92	114.40
1	F	1	ASN	N-CA-C	6.31	128.67	111.00
1	F	18	HIS	CG-CD2-NE2	6.31	113.51	107.20
1	D	172	TRP	CD1-CG-CD2	-6.31	96.21	106.30
1	D	179	LYS	N-CA-CB	6.30	121.14	110.49
1	F	76	THR	N-CA-C	6.30	120.97	107.67
1	A	129	TYR	CG-CD2-CE2	6.30	130.65	121.20
1	F	45	VAL	CB-CA-C	6.30	121.62	111.29
1	D	223	ARG	NE-CZ-NH1	-6.30	115.20	121.50
1	E	197	THR	N-CA-C	-6.30	102.67	110.41
1	A	1	ASN	N-CA-C	-6.29	93.38	111.00
1	D	204	TRP	N-CA-CB	6.29	121.82	111.31
1	E	118	VAL	N-CA-CB	-6.29	100.85	111.23
1	D	142	HIS	ND1-CE1-NE2	-6.29	102.11	108.40
1	D	37	ASN	CB-CG-ND2	6.29	125.83	116.40
1	E	3	ILE	CG1-CB-CG2	-6.29	91.84	110.70
1	B	23	LEU	O-C-N	6.29	131.40	123.23
1	F	159	ASP	CB-CA-C	6.29	121.17	110.74
1	A	24	GLU	CB-CA-C	-6.28	98.21	109.71
1	A	196	LEU	CB-CG-CD2	-6.28	91.85	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	14	PRO	N-CA-CB	6.28	109.85	103.25
1	D	59	ARG	CG-CD-NE	-6.28	98.17	112.00
1	E	60	ALA	CA-C-N	-6.28	110.66	121.97
1	E	60	ALA	C-N-CA	-6.28	110.66	121.97
1	E	194	ASP	OD1-CG-OD2	-6.28	107.82	122.90
1	F	139	GLN	CA-CB-CG	-6.28	101.53	114.10
1	F	196	LEU	CA-C-O	6.28	129.50	120.51
1	E	123	ASN	OD1-CG-ND2	-6.28	116.32	122.60
1	B	188	GLN	CG-CD-NE2	6.28	125.81	116.40
1	E	192	ARG	CB-CG-CD	6.28	125.74	111.30
1	D	138	PRO	N-CA-C	6.28	120.78	110.55
1	C	106	GLY	N-CA-C	-6.27	101.78	112.51
1	E	47	VAL	CA-C-N	6.27	132.40	122.36
1	E	47	VAL	C-N-CA	6.27	132.40	122.36
1	E	74	GLN	CB-CA-C	-6.27	97.94	110.42
1	F	59	ARG	N-CA-C	6.27	118.95	109.23
1	B	132	GLN	N-CA-C	6.27	128.56	111.00
1	D	175	ASN	OD1-CG-ND2	6.27	128.87	122.60
1	B	77	ILE	N-CA-C	6.27	122.38	109.34
1	C	209	SER	CA-C-N	6.27	133.51	121.54
1	C	209	SER	C-N-CA	6.27	133.51	121.54
1	E	154	LEU	CA-C-O	-6.27	114.13	121.46
1	F	231	ALA	N-CA-C	-6.27	97.45	110.80
1	D	191	GLY	CA-C-N	-6.26	113.36	122.19
1	D	191	GLY	C-N-CA	-6.26	113.36	122.19
1	D	222	ASP	CA-C-O	-6.26	110.60	120.37
1	C	69	VAL	CG1-CB-CG2	-6.26	97.02	110.80
1	E	214	ARG	NE-CZ-NH2	6.26	124.84	119.20
1	B	50	SER	N-CA-CB	-6.26	100.00	110.39
1	F	192	ARG	NE-CZ-NH2	6.26	124.84	119.20
1	B	4	LEU	O-C-N	-6.26	115.89	123.27
1	F	15	GLN	CB-CG-CD	6.26	123.24	112.60
1	F	35	ASP	CA-CB-CG	6.26	118.86	112.60
1	F	200	ASN	CB-CG-ND2	-6.26	107.02	116.40
1	E	166	ASP	CA-CB-CG	-6.25	106.35	112.60
1	C	165	PHE	O-C-N	6.25	131.31	123.19
1	B	98	ARG	CA-C-N	-6.25	113.87	122.93
1	B	98	ARG	C-N-CA	-6.25	113.87	122.93
1	E	168	ASP	CA-C-N	6.25	133.47	121.54
1	E	168	ASP	C-N-CA	6.25	133.47	121.54
1	D	218	VAL	CA-C-N	-6.25	112.49	121.42
1	D	218	VAL	C-N-CA	-6.25	112.49	121.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	90	TYR	CB-CG-CD2	6.25	130.17	120.80
1	B	110	SER	O-C-N	6.25	131.55	122.43
1	A	94	LEU	CB-CG-CD1	-6.24	91.98	110.70
1	C	181	THR	CA-C-N	-6.24	109.18	121.41
1	C	181	THR	C-N-CA	-6.24	109.18	121.41
1	D	182	GLY	N-CA-C	6.24	127.97	113.18
1	E	129	TYR	CZ-CE2-CD2	6.24	130.84	119.60
1	A	30	PHE	N-CA-CB	6.24	120.98	110.69
1	C	152	TYR	OH-CZ-CE2	6.24	138.62	119.90
1	E	171	VAL	CA-CB-CG1	6.24	121.01	110.40
1	F	11	GLY	N-CA-C	-6.24	98.39	113.18
1	F	109	ASP	CB-CG-OD1	6.24	132.75	118.40
1	F	207	GLY	CA-C-N	6.24	132.30	122.94
1	F	207	GLY	C-N-CA	6.24	132.30	122.94
1	B	97	ASP	CB-CA-C	6.24	120.71	111.17
1	B	221	PRO	N-CA-CB	-6.24	96.31	103.30
1	E	23	LEU	CA-C-O	-6.24	113.49	120.66
1	A	62	LEU	CB-CA-C	-6.24	97.46	109.37
1	E	152	TYR	CD1-CG-CD2	-6.24	108.75	118.10
1	C	160	CYS	N-CA-C	-6.23	97.52	110.80
1	B	123	ASN	CB-CA-C	6.23	121.94	110.10
1	E	82	GLY	O-C-N	6.23	130.80	122.70
1	E	179	LYS	CB-CA-C	6.23	120.28	111.74
1	F	208	ASN	N-CA-C	6.23	119.56	109.40
1	B	74	GLN	CA-CB-CG	-6.23	101.64	114.10
1	C	106	GLY	O-C-N	-6.23	113.93	123.03
1	C	214	ARG	CG-CD-NE	6.23	125.70	112.00
1	C	115	LYS	N-CA-C	6.23	118.88	108.73
1	A	90	TYR	CG-CD1-CE1	6.23	130.54	121.20
1	D	43	SER	N-CA-C	6.23	124.06	110.80
1	A	228	TYR	CA-C-N	6.22	133.61	121.41
1	A	228	TYR	C-N-CA	6.22	133.61	121.41
1	E	223	ARG	O-C-N	-6.22	114.31	122.59
1	C	46	ARG	CG-CD-NE	6.22	125.69	112.00
1	F	78	ARG	N-CA-C	6.22	120.95	113.23
1	A	215	TYR	CA-C-N	6.22	131.79	122.58
1	A	215	TYR	C-N-CA	6.22	131.79	122.58
1	B	10	GLU	N-CA-CB	-6.22	101.51	110.65
1	E	114	ASN	CB-CA-C	-6.22	98.04	110.42
1	C	38	LEU	CA-C-O	-6.21	111.62	120.51
1	A	99	THR	N-CA-C	6.21	118.00	109.18
1	F	13	HIS	O-C-N	6.21	129.94	121.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	81	SER	CA-CB-OG	6.21	123.52	111.10
1	C	179	LYS	CA-CB-CG	-6.21	101.68	114.10
1	A	141	LEU	CA-CB-CG	6.21	138.03	116.30
1	A	119	VAL	CA-C-N	6.21	133.14	121.97
1	A	119	VAL	C-N-CA	6.21	133.14	121.97
1	E	189	PRO	CB-CG-CD	-6.21	86.25	106.10
1	C	72	THR	CA-CB-OG1	6.20	118.90	109.60
1	B	217	PHE	CB-CA-C	6.20	122.76	110.42
1	C	67	LEU	CA-CB-CG	6.20	138.00	116.30
1	D	136	ASN	O-C-N	-6.20	113.08	123.00
1	A	77	ILE	CG1-CB-CG2	-6.20	92.11	110.70
1	D	159	ASP	CB-CG-OD1	-6.20	104.15	118.40
1	D	80	SER	N-CA-C	6.19	118.50	108.34
1	B	85	GLY	CA-C-O	6.19	127.42	121.78
1	C	62	LEU	CA-C-N	6.19	134.32	121.32
1	C	62	LEU	C-N-CA	6.19	134.32	121.32
1	B	2	ASN	O-C-N	-6.19	114.17	122.22
1	B	166	ASP	N-CA-CB	6.19	120.95	110.49
1	B	75	ASN	N-CA-C	6.19	122.16	113.56
1	D	180	GLY	CA-C-N	-6.19	109.72	121.54
1	D	180	GLY	C-N-CA	-6.19	109.72	121.54
1	E	147	LEU	CB-CA-C	-6.19	98.11	110.42
1	B	52	THR	CB-CA-C	-6.19	100.00	110.64
1	B	203	VAL	CG1-CB-CG2	-6.19	97.19	110.80
1	E	140	THR	CA-C-O	6.18	129.35	120.51
1	A	56	THR	N-CA-CB	6.18	122.32	111.13
1	A	201	ILE	N-CA-C	-6.18	99.58	108.48
1	F	99	THR	N-CA-CB	6.18	121.06	110.68
1	D	60	ALA	N-CA-C	6.18	121.88	113.97
1	D	22	SER	CA-CB-OG	6.18	123.45	111.10
1	C	112	THR	N-CA-C	-6.18	103.94	112.03
1	C	162	LEU	CB-CA-C	6.18	120.53	110.22
1	B	227	ILE	O-C-N	-6.17	113.97	122.62
1	D	108	TRP	CG-CD1-NE1	6.17	118.23	110.20
1	E	98	ARG	NE-CZ-NH2	-6.17	113.64	119.20
1	F	66	GLY	O-C-N	-6.17	114.81	122.34
1	D	97	ASP	CA-C-O	-6.17	111.69	120.51
1	D	127	ILE	CA-CB-CG1	6.17	120.89	110.40
1	A	214	ARG	NE-CZ-NH2	6.17	124.75	119.20
1	E	177	ALA	O-C-N	-6.17	115.65	123.24
1	F	148	GLN	CA-C-N	6.17	133.32	121.54
1	F	148	GLN	C-N-CA	6.17	133.32	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	1	ASN	CB-CA-C	6.17	121.82	110.10
1	D	141	LEU	CB-CA-C	-6.17	99.92	110.16
1	E	227	ILE	CA-CB-CG2	6.17	120.98	110.50
1	F	99	THR	OG1-CB-CG2	6.17	121.63	109.30
1	D	9	HIS	N-CA-CB	-6.17	100.07	110.49
1	E	43	SER	CA-CB-OG	6.17	123.43	111.10
1	B	214	ARG	CA-CB-CG	-6.16	101.77	114.10
1	E	150	SER	N-CA-C	6.16	123.43	109.81
1	E	184	ARG	NE-CZ-NH2	-6.16	113.65	119.20
1	F	163	VAL	CB-CA-C	6.16	121.40	111.29
1	A	29	ARG	NE-CZ-NH2	6.16	124.75	119.20
1	A	169	ASP	N-CA-CB	6.16	122.16	111.13
1	F	157	GLU	OE1-CD-OE2	-6.16	108.11	122.90
1	F	194	ASP	CB-CG-OD2	6.16	132.57	118.40
1	B	212	ALA	N-CA-CB	-6.16	100.76	110.06
1	A	18	HIS	ND1-CE1-NE2	6.16	114.56	108.40
1	E	95	GLN	CA-C-O	6.16	127.44	120.97
1	C	173	SER	N-CA-C	6.16	119.06	109.52
1	B	5	PHE	N-CA-C	6.15	118.86	110.55
1	C	4	LEU	O-C-N	6.15	131.23	123.23
1	F	63	GLN	OE1-CD-NE2	-6.15	116.45	122.60
1	B	24	GLU	CB-CG-CD	-6.15	102.15	112.60
1	B	149	LEU	CB-CG-CD1	-6.15	92.25	110.70
1	D	198	ASN	CB-CG-OD1	-6.15	108.50	120.80
1	A	104	GLY	C-N-CD	-6.15	99.79	125.00
1	B	62	LEU	N-CA-CB	6.15	120.22	110.57
1	D	156	MET	O-C-N	-6.14	113.67	121.97
1	A	89	ASN	CA-C-N	6.14	132.15	122.94
1	A	89	ASN	C-N-CA	6.14	132.15	122.94
1	D	102	ILE	N-CA-CB	-6.14	101.10	111.23
1	C	149	LEU	CA-C-O	-6.14	111.73	120.51
1	C	105	PRO	O-C-N	6.13	130.92	122.64
1	A	81	SER	N-CA-C	-6.13	103.90	112.12
1	E	169	ASP	OD1-CG-OD2	6.13	137.61	122.90
1	D	217	PHE	CG-CD2-CE2	6.13	131.12	120.70
1	E	164	LEU	N-CA-C	6.13	118.51	108.52
1	A	174	THR	CA-CB-OG1	6.12	118.79	109.60
1	A	16	THR	CA-C-N	-6.12	114.37	123.00
1	A	16	THR	C-N-CA	-6.12	114.37	123.00
1	E	92	LEU	N-CA-C	-6.12	99.26	109.24
1	A	173	SER	CA-CB-OG	-6.12	98.86	111.10
1	F	36	CYS	CA-CB-SG	-6.12	100.33	114.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	226	ALA	N-CA-C	-6.12	99.09	108.76
1	C	89	ASN	CA-C-N	-6.12	112.08	123.03
1	C	89	ASN	C-N-CA	-6.12	112.08	123.03
1	C	228	TYR	CB-CA-C	-6.12	101.38	110.62
1	D	21	GLN	O-C-N	-6.12	115.93	123.33
1	D	63	GLN	O-C-N	6.12	130.72	122.59
1	D	128	LEU	CD1-CG-CD2	-6.12	97.35	110.80
1	F	109	ASP	CB-CG-OD2	-6.12	104.33	118.40
1	B	19	ALA	CA-C-O	-6.11	111.28	119.47
1	A	56	THR	CA-C-N	6.11	133.39	121.41
1	A	56	THR	C-N-CA	6.11	133.39	121.41
1	D	79	TRP	CH2-CZ2-CE2	6.11	125.44	117.50
1	A	141	LEU	CB-CG-CD1	-6.11	92.37	110.70
1	A	17	LEU	N-CA-C	-6.11	98.46	108.41
1	A	198	ASN	O-C-N	-6.11	114.47	122.59
1	C	217	PHE	CB-CG-CD1	6.11	131.08	120.70
1	C	233	TRP	CE3-CZ3-CH2	6.11	129.04	121.10
1	D	33	GLN	N-CA-CB	-6.11	101.60	110.70
1	F	186	VAL	CA-CB-CG1	6.10	120.77	110.40
1	B	165	PHE	CA-CB-CG	-6.10	107.70	113.80
1	C	232	LEU	CB-CA-C	-6.09	98.30	110.42
1	E	41	PHE	CA-C-N	-6.09	114.21	122.86
1	E	41	PHE	C-N-CA	-6.09	114.21	122.86
1	F	187	LEU	CA-C-N	-6.09	111.29	121.03
1	F	187	LEU	C-N-CA	-6.09	111.29	121.03
1	A	22	SER	N-CA-CB	-6.09	101.17	110.42
1	A	211	SER	CA-C-O	-6.09	114.86	120.95
1	D	78	ARG	N-CA-CB	-6.08	100.95	110.44
1	D	127	ILE	CA-C-N	6.08	133.23	121.18
1	D	127	ILE	C-N-CA	6.08	133.23	121.18
1	C	208	ASN	N-CA-C	-6.08	97.29	107.80
1	E	178	GLY	O-C-N	6.08	130.60	122.70
1	F	167	ARG	N-CA-CB	-6.08	100.77	111.40
1	F	152	TYR	CB-CG-CD2	6.07	129.91	120.80
1	F	191	GLY	CA-C-O	-6.07	112.26	119.06
1	A	233	TRP	N-CA-CB	-6.07	100.23	110.49
1	B	3	ILE	CA-C-N	6.07	131.55	123.05
1	B	3	ILE	C-N-CA	6.07	131.55	123.05
1	D	212	ALA	N-CA-C	-6.07	101.05	110.10
1	F	74	GLN	CG-CD-NE2	-6.07	107.29	116.40
1	D	226	ALA	O-C-N	-6.07	115.87	123.27
1	B	5	PHE	CA-C-N	6.07	133.30	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	5	PHE	C-N-CA	6.07	133.30	121.41
1	B	89	ASN	CA-C-O	-6.07	114.09	120.58
1	E	162	LEU	N-CA-C	-6.06	99.31	109.07
1	B	189	PRO	N-CA-CB	6.06	109.62	103.25
1	C	49	ALA	O-C-N	-6.06	114.53	122.59
1	B	144	THR	CA-C-N	6.06	131.47	122.86
1	B	144	THR	C-N-CA	6.06	131.47	122.86
1	A	52	THR	CA-C-N	-6.06	111.91	122.64
1	A	52	THR	C-N-CA	-6.06	111.91	122.64
1	C	127	ILE	CG1-CB-CG2	-6.06	92.52	110.70
1	D	197	THR	CA-CB-CG2	6.06	120.80	110.50
1	E	35	ASP	OD1-CG-OD2	-6.06	108.36	122.90
1	F	172	TRP	CA-CB-CG	-6.06	102.09	113.60
1	B	46	ARG	CG-CD-NE	-6.05	98.68	112.00
1	C	95	GLN	CB-CG-CD	6.05	122.88	112.60
1	D	170	ARG	CA-C-N	6.05	129.49	122.35
1	D	170	ARG	C-N-CA	6.05	129.49	122.35
1	E	48	TRP	NE1-CE2-CD2	-6.05	99.54	107.40
1	C	41	PHE	CB-CG-CD2	-6.05	110.42	120.70
1	D	114	ASN	CB-CG-ND2	-6.05	107.33	116.40
1	D	157	GLU	CA-C-N	-6.05	109.79	121.58
1	D	157	GLU	C-N-CA	-6.05	109.79	121.58
1	E	3	ILE	N-CA-CB	-6.05	102.31	112.47
1	A	118	VAL	N-CA-C	6.04	121.91	109.34
1	C	21	GLN	CA-CB-CG	-6.04	102.01	114.10
1	D	63	GLN	CG-CD-OE1	-6.04	108.71	120.80
1	A	70	ILE	CA-CB-CG1	-6.04	100.13	110.40
1	E	63	GLN	CA-C-O	-6.04	114.99	121.94
1	E	180	GLY	CA-C-O	-6.04	115.72	122.24
1	F	107	LEU	CA-C-N	-6.04	112.32	122.29
1	F	107	LEU	C-N-CA	-6.04	112.32	122.29
1	F	9	HIS	ND1-CG-CD2	-6.04	100.06	106.10
1	F	229	GLY	N-CA-C	6.04	120.45	110.55
1	C	41	PHE	CD1-CE1-CZ	-6.04	109.14	120.00
1	B	234	THR	OG1-CB-CG2	-6.03	97.23	109.30
1	D	39	VAL	N-CA-C	6.03	116.31	108.35
1	D	130	SER	N-CA-C	-6.03	97.95	110.80
1	B	37	ASN	CB-CA-C	6.03	119.96	110.19
1	A	185	ALA	CB-CA-C	6.03	119.42	110.62
1	B	81	SER	O-C-N	-6.03	114.58	122.59
1	C	185	ALA	CB-CA-C	-6.03	97.46	109.33
1	D	88	GLY	N-CA-C	6.03	127.46	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	157	GLU	CB-CA-C	-6.03	98.43	110.42
1	E	172	TRP	O-C-N	6.03	130.87	123.10
1	E	188	GLN	O-C-N	-6.03	114.79	121.66
1	F	153	ARG	CA-C-N	-6.02	112.70	122.34
1	F	153	ARG	C-N-CA	-6.02	112.70	122.34
1	C	181	THR	O-C-N	-6.02	115.89	121.79
1	A	162	LEU	CA-C-O	-6.02	113.83	120.69
1	D	41	PHE	CA-C-N	6.02	131.66	123.11
1	D	41	PHE	C-N-CA	6.02	131.66	123.11
1	B	108	TRP	CG-CD1-NE1	6.02	118.02	110.20
1	D	210	ARG	NE-CZ-NH2	6.02	124.62	119.20
1	E	199	GLN	O-C-N	-6.02	114.86	122.26
1	E	149	LEU	CA-C-O	-6.01	111.91	120.51
1	A	3	ILE	CG1-CB-CG2	6.01	128.74	110.70
1	A	169	ASP	CB-CG-OD2	6.01	132.23	118.40
1	E	216	VAL	N-CA-C	6.01	118.55	108.81
1	F	222	ASP	OD1-CG-OD2	6.01	137.32	122.90
1	D	76	THR	CB-CA-C	6.01	120.11	109.72
1	E	78	ARG	N-CA-CB	6.01	120.53	110.32
1	A	98	ARG	CD-NE-CZ	-6.00	115.99	124.40
1	F	199	GLN	N-CA-C	6.00	122.47	114.12
1	E	157	GLU	N-CA-CB	-6.00	100.56	110.65
1	A	209	SER	N-CA-CB	-6.00	101.19	111.21
1	D	217	PHE	CZ-CE2-CD2	-6.00	109.20	120.00
1	E	11	GLY	CA-C-N	6.00	133.00	121.54
1	E	11	GLY	C-N-CA	6.00	133.00	121.54
1	E	192	ARG	CD-NE-CZ	6.00	132.80	124.40
1	D	205	THR	CA-C-N	6.00	128.63	120.54
1	D	205	THR	C-N-CA	6.00	128.63	120.54
1	A	198	ASN	CB-CG-OD1	-6.00	108.81	120.80
1	C	233	TRP	CG-CD1-NE1	6.00	117.99	110.20
1	A	11	GLY	O-C-N	5.99	130.49	122.70
1	B	17	LEU	CA-C-N	5.99	132.99	121.54
1	B	17	LEU	C-N-CA	5.99	132.99	121.54
1	A	36	CYS	CB-CA-C	-5.99	101.47	111.23
1	A	109	ASP	OD1-CG-OD2	-5.99	108.52	122.90
1	A	186	VAL	CA-CB-CG2	5.99	120.58	110.40
1	A	52	THR	N-CA-C	-5.99	98.05	110.80
1	F	84	LYS	N-CA-C	5.99	118.43	108.13
1	B	140	THR	N-CA-CB	-5.98	101.52	111.57
1	C	188	GLN	N-CA-C	5.98	118.33	110.08
1	B	217	PHE	CD1-CE1-CZ	-5.98	109.24	120.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	160	CYS	O-C-N	5.97	130.53	122.59
1	F	24	GLU	O-C-N	5.97	130.29	123.48
1	C	5	PHE	N-CA-CB	5.97	120.12	110.51
1	B	19	ALA	O-C-N	5.97	129.29	122.25
1	C	166	ASP	O-C-N	-5.97	112.56	121.63
1	E	188	GLN	N-CA-C	5.97	118.66	110.01
1	E	166	ASP	OD1-CG-OD2	5.96	137.22	122.90
1	F	2	ASN	N-CA-CB	-5.96	98.16	111.10
1	A	205	THR	CA-CB-OG1	-5.96	100.66	109.60
1	B	100	VAL	N-CA-C	-5.96	99.84	108.36
1	A	167	ARG	NH1-CZ-NH2	-5.96	111.56	119.30
1	C	56	THR	N-CA-CB	5.96	122.60	111.52
1	F	108	TRP	N-CA-CB	-5.96	100.45	111.53
1	A	41	PHE	CG-CD2-CE2	-5.96	110.58	120.70
1	D	44	ASP	N-CA-C	-5.96	98.11	110.80
1	C	65	ASP	CB-CA-C	5.95	120.62	110.56
1	D	49	ALA	CA-C-O	-5.95	115.05	121.36
1	E	21	GLN	CG-CD-NE2	-5.95	107.47	116.40
1	D	185	ALA	CA-C-O	-5.95	113.93	120.30
1	D	22	SER	N-CA-CB	-5.95	102.34	111.56
1	A	202	ALA	CA-C-N	5.95	130.05	120.30
1	A	202	ALA	C-N-CA	5.95	130.05	120.30
1	C	163	VAL	CA-C-O	-5.95	113.85	121.40
1	E	149	LEU	CB-CG-CD2	5.95	128.54	110.70
1	F	220	GLN	CB-CG-CD	-5.95	102.49	112.60
1	E	201	ILE	O-C-N	5.94	129.16	122.98
1	B	170	ARG	NE-CZ-NH2	-5.94	113.85	119.20
1	E	225	LEU	N-CA-C	-5.94	97.44	108.02
1	D	158	THR	N-CA-CB	5.94	120.39	110.41
1	B	203	VAL	CA-C-O	5.94	128.20	120.78
1	F	100	VAL	N-CA-CB	5.94	117.19	110.72
1	A	141	LEU	CD1-CG-CD2	5.94	123.86	110.80
1	E	46	ARG	CA-C-N	5.94	127.96	120.72
1	E	46	ARG	C-N-CA	5.94	127.96	120.72
1	F	221	PRO	N-CA-C	-5.94	106.93	114.35
1	A	55	ALA	N-CA-C	-5.93	100.97	108.45
1	C	41	PHE	CZ-CE2-CD2	-5.93	109.32	120.00
1	C	184	ARG	CG-CD-NE	-5.93	98.94	112.00
1	C	93	VAL	N-CA-C	5.93	117.02	108.48
1	D	7	LEU	CB-CA-C	-5.93	98.62	110.42
1	C	97	ASP	CA-CB-CG	5.93	118.53	112.60
1	B	106	GLY	N-CA-C	-5.92	99.14	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	196	LEU	N-CA-CB	5.92	119.00	110.06
1	A	67	LEU	CD1-CG-CD2	5.92	123.83	110.80
1	C	30	PHE	N-CA-CB	5.92	120.46	110.69
1	C	176	THR	CA-C-N	5.92	132.85	121.54
1	C	176	THR	C-N-CA	5.92	132.85	121.54
1	C	180	GLY	O-C-N	5.92	130.77	123.61
1	B	125	ASN	CA-C-O	-5.92	112.05	120.51
1	B	9	HIS	N-CA-C	5.92	120.63	113.17
1	C	23	LEU	N-CA-C	-5.92	99.54	109.07
1	E	127	ILE	CA-CB-CG2	-5.92	100.44	110.50
1	A	71	LEU	O-C-N	5.92	130.11	123.19
1	A	227	ILE	CA-CB-CG2	5.92	120.56	110.50
1	F	163	VAL	O-C-N	5.91	129.96	122.57
1	C	9	HIS	CA-C-O	-5.91	112.06	120.51
1	C	14	PRO	CA-N-CD	-5.90	103.74	112.00
1	F	100	VAL	CA-CB-CG1	-5.90	100.37	110.40
1	A	107	LEU	CB-CA-C	5.90	122.16	110.42
1	B	29	ARG	CB-CA-C	-5.90	101.62	110.24
1	E	32	MET	O-C-N	-5.90	114.74	122.59
1	F	105	PRO	N-CA-CB	5.90	109.09	102.60
1	F	189	PRO	O-C-N	5.90	130.61	122.64
1	D	68	LEU	O-C-N	-5.90	116.05	123.01
1	F	56	THR	N-CA-CB	5.90	121.51	111.66
1	F	192	ARG	CG-CD-NE	5.90	124.97	112.00
1	A	135	ASP	CB-CA-C	-5.89	102.94	111.14
1	A	158	THR	CA-C-N	5.89	133.73	121.94
1	A	158	THR	C-N-CA	5.89	133.73	121.94
1	A	195	VAL	N-CA-CB	5.89	119.64	112.10
1	D	108	TRP	CE3-CZ3-CH2	5.89	128.76	121.10
1	F	142	HIS	CB-CG-ND1	-5.89	113.86	122.70
1	B	37	ASN	O-C-N	5.89	129.94	123.22
1	D	65	ASP	CA-CB-CG	-5.89	106.71	112.60
1	B	90	TYR	CA-CB-CG	5.89	124.50	113.90
1	C	14	PRO	N-CA-CB	5.88	108.78	103.19
1	A	196	LEU	CA-CB-CG	5.88	136.88	116.30
1	E	96	PRO	N-CA-CB	-5.88	96.56	103.26
1	C	208	ASN	CB-CA-C	-5.87	102.05	110.62
1	D	38	LEU	CD1-CG-CD2	5.87	123.72	110.80
1	A	23	LEU	O-C-N	5.87	130.22	123.29
1	B	201	ILE	CB-CG1-CD1	5.87	126.13	113.80
1	E	141	LEU	CB-CA-C	5.87	120.97	109.35
1	C	16	THR	OG1-CB-CG2	5.87	121.04	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	77	ILE	CB-CG1-CD1	-5.87	101.48	113.80
1	B	126	SER	CA-C-N	5.87	132.53	121.97
1	B	126	SER	C-N-CA	5.87	132.53	121.97
1	C	130	SER	CA-CB-OG	5.86	122.83	111.10
1	A	36	CYS	CA-C-N	-5.86	113.92	122.65
1	A	36	CYS	C-N-CA	-5.86	113.92	122.65
1	E	25	LEU	CA-C-N	-5.86	110.35	121.54
1	E	25	LEU	C-N-CA	-5.86	110.35	121.54
1	B	142	HIS	CA-C-N	5.86	132.73	121.54
1	B	142	HIS	C-N-CA	5.86	132.73	121.54
1	B	102	ILE	N-CA-C	5.86	116.30	107.75
1	B	190	ASN	CB-CG-OD1	-5.86	109.09	120.80
1	D	8	SER	CA-C-O	5.86	128.88	120.51
1	D	153	ARG	CB-CG-CD	-5.85	97.84	111.30
1	E	129	TYR	CG-CD2-CE2	-5.85	112.42	121.20
1	B	210	ARG	CB-CG-CD	5.85	124.75	111.30
1	C	175	ASN	CB-CG-OD1	5.85	132.50	120.80
1	D	172	TRP	CB-CG-CD2	5.85	134.99	126.80
1	E	90	TYR	O-C-N	-5.85	117.36	123.56
1	F	194	ASP	CB-CA-C	-5.85	98.78	110.42
1	A	172	TRP	CE3-CZ3-CH2	-5.85	113.50	121.10
1	B	18	HIS	CA-C-N	-5.85	105.60	122.15
1	B	18	HIS	C-N-CA	-5.85	105.60	122.15
1	C	19	ALA	CA-C-N	-5.85	113.37	123.25
1	C	19	ALA	C-N-CA	-5.85	113.37	123.25
1	C	210	ARG	CG-CD-NE	-5.85	99.14	112.00
1	A	224	ASN	O-C-N	-5.85	115.78	123.21
1	B	170	ARG	O-C-N	-5.85	114.81	122.59
1	D	222	ASP	N-CA-C	5.84	121.14	113.20
1	F	96	PRO	CA-C-N	-5.84	113.38	122.67
1	F	96	PRO	C-N-CA	-5.84	113.38	122.67
1	F	175	ASN	CB-CA-C	-5.84	98.80	110.42
1	C	19	ALA	O-C-N	-5.84	114.40	122.46
1	D	102	ILE	N-CA-C	5.84	121.49	109.34
1	D	12	SER	CA-C-O	-5.84	112.16	120.51
1	F	79	TRP	CE3-CZ3-CH2	-5.84	113.51	121.10
1	F	89	ASN	O-C-N	-5.84	116.36	123.30
1	A	118	VAL	CA-CB-CG1	5.83	120.32	110.40
1	B	144	THR	N-CA-CB	5.83	120.35	110.49
1	A	90	TYR	N-CA-CB	5.83	120.98	110.83
1	B	227	ILE	CA-CB-CG1	5.83	120.32	110.40
1	F	41	PHE	O-C-N	-5.83	116.68	123.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	90	TYR	CD1-CG-CD2	-5.83	109.36	118.10
1	E	192	ARG	N-CA-CB	-5.83	100.89	110.68
1	E	180	GLY	CA-C-N	-5.83	110.41	121.54
1	E	180	GLY	C-N-CA	-5.83	110.41	121.54
1	A	121	ALA	O-C-N	-5.83	115.09	122.26
1	D	112	THR	CA-CB-OG1	5.83	118.34	109.60
1	D	181	THR	OG1-CB-CG2	5.83	120.95	109.30
1	A	121	ALA	CA-C-O	5.82	126.82	119.95
1	B	52	THR	OG1-CB-CG2	-5.82	97.65	109.30
1	F	92	LEU	CD1-CG-CD2	-5.82	97.99	110.80
1	E	196	LEU	CB-CG-CD2	-5.82	93.23	110.70
1	B	93	VAL	CA-C-N	-5.82	114.79	123.00
1	B	93	VAL	C-N-CA	-5.82	114.79	123.00
1	F	78	ARG	CD-NE-CZ	-5.82	116.25	124.40
1	F	32	MET	N-CA-C	-5.82	99.70	109.07
1	C	79	TRP	CA-C-O	-5.82	114.83	121.58
1	E	85	GLY	CA-C-O	-5.81	115.25	121.88
1	F	79	TRP	N-CA-C	5.81	117.95	108.76
1	E	176	THR	O-C-N	-5.81	115.70	123.14
1	A	79	TRP	O-C-N	5.81	130.32	122.59
1	A	186	VAL	CG1-CB-CG2	-5.81	98.02	110.80
1	A	227	ILE	CB-CA-C	5.81	119.28	110.62
1	A	227	ILE	CG1-CB-CG2	-5.81	93.27	110.70
1	B	99	THR	CA-CB-CG2	5.81	120.38	110.50
1	B	176	THR	CB-CA-C	-5.81	98.86	110.42
1	E	101	THR	CA-C-O	-5.81	113.39	120.54
1	A	215	TYR	CA-C-O	5.81	128.62	121.94
1	A	107	LEU	N-CA-CB	-5.81	100.68	110.49
1	A	116	GLY	CA-C-N	5.80	128.64	120.28
1	A	116	GLY	C-N-CA	5.80	128.64	120.28
1	A	197	THR	CA-CB-CG2	5.80	120.37	110.50
1	C	191	GLY	CA-C-O	5.80	127.00	120.03
1	F	97	ASP	CB-CA-C	5.80	120.37	111.02
1	F	228	TYR	O-C-N	5.80	129.44	122.94
1	B	18	HIS	CB-CG-ND1	-5.80	114.00	122.70
1	D	184	ARG	N-CA-C	5.80	118.22	109.23
1	F	105	PRO	CB-CA-C	-5.80	97.50	112.00
1	A	202	ALA	CB-CA-C	5.80	120.38	110.81
1	E	214	ARG	NH1-CZ-NH2	-5.80	111.76	119.30
1	F	77	ILE	CA-C-O	5.80	128.03	120.78
1	C	29	ARG	NH1-CZ-NH2	-5.79	111.77	119.30
1	D	79	TRP	N-CA-C	-5.79	98.84	108.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	9	HIS	CA-C-O	5.79	128.79	120.51
1	D	189	PRO	CB-CA-C	-5.79	102.00	111.56
1	E	210	ARG	CA-CB-CG	5.79	125.68	114.10
1	F	210	ARG	O-C-N	-5.79	116.79	122.99
1	A	58	CYS	N-CA-C	-5.79	101.71	110.28
1	D	103	TYR	OH-CZ-CE2	-5.79	102.53	119.90
1	E	144	THR	CA-C-O	-5.79	108.49	119.32
1	A	84	LYS	CG-CD-CE	5.79	124.61	111.30
1	B	89	ASN	CB-CA-C	-5.79	101.26	110.81
1	F	98	ARG	N-CA-CB	-5.79	103.39	112.13
1	E	156	MET	CB-CG-SD	5.79	130.06	112.70
1	D	78	ARG	CA-CB-CG	-5.79	102.53	114.10
1	A	50	SER	O-C-N	-5.78	115.24	122.35
1	C	233	TRP	CA-C-N	-5.78	112.25	122.20
1	C	233	TRP	C-N-CA	-5.78	112.25	122.20
1	F	109	ASP	N-CA-CB	5.78	121.48	111.13
1	F	47	VAL	CB-CA-C	-5.78	104.98	111.80
1	D	161	ASN	CA-C-O	-5.78	114.08	120.38
1	A	76	THR	O-C-N	-5.78	115.77	122.87
1	A	172	TRP	O-C-N	5.78	130.70	123.19
1	B	199	GLN	CA-C-N	5.78	132.57	121.54
1	B	199	GLN	C-N-CA	5.78	132.57	121.54
1	C	218	VAL	CA-C-O	-5.78	113.91	120.67
1	A	93	VAL	CA-CB-CG1	5.77	120.21	110.40
1	D	55	ALA	CA-C-O	5.77	127.54	121.25
1	E	6	GLY	CA-C-O	-5.77	110.53	120.57
1	A	38	LEU	CA-CB-CG	-5.77	96.11	116.30
1	A	166	ASP	N-CA-C	-5.76	96.10	107.69
1	A	228	TYR	CE1-CZ-OH	-5.76	102.61	119.90
1	B	51	ASN	CA-C-O	5.76	128.13	120.98
1	B	81	SER	N-CA-C	5.76	123.08	110.80
1	C	126	SER	CA-CB-OG	-5.76	99.57	111.10
1	D	40	LEU	CA-C-N	-5.76	112.78	122.92
1	D	40	LEU	C-N-CA	-5.76	112.78	122.92
1	F	21	GLN	CA-C-O	-5.76	114.48	121.28
1	D	24	GLU	CB-CA-C	-5.76	101.46	110.74
1	D	114	ASN	CB-CG-OD1	5.76	132.33	120.80
1	C	77	ILE	CA-CB-CG1	5.76	120.19	110.40
1	C	107	LEU	CD1-CG-CD2	5.76	123.48	110.80
1	A	207	GLY	CA-C-N	-5.76	113.57	122.09
1	A	207	GLY	C-N-CA	-5.76	113.57	122.09
1	A	143	ALA	N-CA-CB	-5.76	100.81	110.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	221	PRO	CB-CA-C	-5.76	102.06	111.56
1	B	40	LEU	CA-C-O	-5.75	114.94	121.39
1	F	185	ALA	O-C-N	-5.75	114.94	122.59
1	A	68	LEU	N-CA-C	-5.75	99.14	108.52
1	C	101	THR	O-C-N	-5.75	116.36	123.44
1	C	84	LYS	CD-CE-NZ	5.75	130.30	111.90
1	F	50	SER	N-CA-C	5.75	123.05	110.80
1	A	186	VAL	O-C-N	5.75	129.06	123.03
1	B	160	CYS	CA-CB-SG	-5.75	101.18	114.40
1	E	96	PRO	CB-CG-CD	-5.75	87.71	106.10
1	B	72	THR	CA-CB-OG1	-5.74	100.99	109.60
1	F	215	TYR	CB-CA-C	-5.74	99.44	110.24
1	A	65	ASP	N-CA-CB	-5.74	102.70	111.66
1	C	125	ASN	O-C-N	-5.74	114.95	122.59
1	B	226	ALA	CB-CA-C	5.74	121.84	110.42
1	E	153	ARG	NE-CZ-NH2	5.73	124.36	119.20
1	B	181	THR	CA-CB-OG1	-5.73	101.00	109.60
1	C	138	PRO	CB-CG-CD	-5.73	87.75	106.10
1	A	41	PHE	CE1-CZ-CE2	5.73	130.31	120.00
1	E	130	SER	N-CA-CB	-5.73	100.81	110.49
1	B	7	LEU	CA-C-O	5.72	128.69	120.51
1	C	48	TRP	CH2-CZ2-CE2	-5.72	110.06	117.50
1	A	5	PHE	CB-CG-CD2	5.72	130.43	120.70
1	A	56	THR	O-C-N	-5.72	116.71	123.41
1	D	201	ILE	N-CA-C	5.72	117.24	108.71
1	E	48	TRP	CA-CB-CG	-5.72	102.73	113.60
1	A	24	GLU	CA-CB-CG	5.72	125.54	114.10
1	D	39	VAL	O-C-N	5.72	129.72	123.09
1	B	215	TYR	N-CA-CB	5.71	121.49	111.55
1	C	233	TRP	CG-CD2-CE3	-5.71	128.19	133.90
1	F	142	HIS	CA-C-N	-5.71	110.58	122.07
1	F	142	HIS	C-N-CA	-5.71	110.58	122.07
1	A	45	VAL	CA-CB-CG1	5.71	120.11	110.40
1	A	135	ASP	CB-CG-OD1	-5.71	105.26	118.40
1	B	131	THR	CA-C-O	-5.71	112.34	120.51
1	E	129	TYR	CB-CG-CD2	5.71	129.37	120.80
1	E	205	THR	CA-CB-CG2	-5.71	100.79	110.50
1	D	35	ASP	CB-CG-OD2	-5.71	105.26	118.40
1	E	175	ASN	OD1-CG-ND2	-5.71	116.89	122.60
1	F	167	ARG	NE-CZ-NH1	-5.71	115.79	121.50
1	F	186	VAL	N-CA-C	5.71	116.40	108.23
1	D	67	LEU	CB-CA-C	5.71	119.76	110.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	63	GLN	OE1-CD-NE2	5.71	128.31	122.60
1	A	71	LEU	CD1-CG-CD2	-5.71	98.24	110.80
1	A	3	ILE	CB-CA-C	5.71	120.65	111.29
1	A	194	ASP	N-CA-C	5.71	117.86	109.24
1	B	69	VAL	CG1-CB-CG2	-5.71	98.24	110.80
1	D	172	TRP	CE2-CD2-CG	5.71	114.05	107.20
1	B	46	ARG	N-CA-C	5.70	118.54	110.50
1	C	73	ALA	CA-C-O	-5.70	112.35	120.51
1	F	175	ASN	CB-CG-ND2	-5.70	107.84	116.40
1	A	214	ARG	CA-C-N	5.70	133.65	121.45
1	A	214	ARG	C-N-CA	5.70	133.65	121.45
1	D	94	LEU	CB-CG-CD2	5.70	127.80	110.70
1	A	54	GLY	CA-C-N	-5.70	112.40	122.20
1	A	54	GLY	C-N-CA	-5.70	112.40	122.20
1	E	73	ALA	CB-CA-C	5.70	121.75	110.42
1	B	200	ASN	CB-CA-C	-5.69	99.09	110.42
1	B	208	ASN	CB-CA-C	-5.69	99.10	110.42
1	B	83	THR	O-C-N	-5.69	115.02	122.59
1	C	199	GLN	CG-CD-OE1	5.69	132.18	120.80
1	B	128	LEU	N-CA-CB	5.69	118.57	110.44
1	F	189	PRO	CA-N-CD	-5.69	104.04	112.00
1	C	77	ILE	CA-C-O	5.68	127.89	120.78
1	C	108	TRP	CB-CA-C	-5.68	98.19	111.09
1	C	184	ARG	CB-CA-C	-5.68	98.19	111.09
1	B	2	ASN	N-CA-CB	-5.68	101.83	111.20
1	C	228	TYR	CG-CD2-CE2	5.68	129.72	121.20
1	E	152	TYR	N-CA-CB	5.68	122.09	111.53
1	A	79	TRP	N-CA-CB	-5.68	100.90	110.49
1	C	149	LEU	N-CA-CB	-5.68	100.90	110.49
1	A	127	ILE	N-CA-C	5.67	116.76	108.53
1	D	65	ASP	CB-CA-C	5.67	122.72	110.41
1	F	108	TRP	CG-CD2-CE3	-5.67	128.23	133.90
1	B	225	LEU	CA-C-N	-5.67	110.71	121.54
1	B	225	LEU	C-N-CA	-5.67	110.71	121.54
1	E	188	GLN	CG-CD-NE2	5.67	124.90	116.40
1	C	17	LEU	CA-CB-CG	5.67	136.13	116.30
1	E	81	SER	N-CA-C	-5.67	98.73	110.80
1	F	189	PRO	CB-CA-C	5.67	120.91	111.56
1	B	182	GLY	O-C-N	-5.66	115.34	122.70
1	D	111	GLY	CA-C-N	5.66	141.57	122.20
1	D	111	GLY	C-N-CA	5.66	141.57	122.20
1	B	222	ASP	CB-CA-C	-5.66	98.16	109.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	218	VAL	CA-CB-CG1	-5.66	100.78	110.40
1	F	79	TRP	CA-C-O	-5.66	114.66	120.89
1	A	187	LEU	CA-C-N	-5.66	107.99	121.80
1	A	187	LEU	C-N-CA	-5.66	107.99	121.80
1	B	78	ARG	NE-CZ-NH1	-5.66	115.84	121.50
1	C	218	VAL	N-CA-C	5.66	116.63	108.48
1	D	38	LEU	CB-CA-C	5.66	119.36	110.19
1	D	87	ILE	CA-CB-CG1	-5.66	100.78	110.40
1	C	101	THR	CA-C-N	-5.66	112.86	120.95
1	C	101	THR	C-N-CA	-5.66	112.86	120.95
1	C	102	ILE	CA-C-N	5.66	131.89	122.73
1	C	102	ILE	C-N-CA	5.66	131.89	122.73
1	A	142	HIS	CE1-NE2-CD2	-5.65	103.35	109.00
1	C	51	ASN	OD1-CG-ND2	-5.65	116.95	122.60
1	F	155	SER	CB-CA-C	-5.65	100.67	110.45
1	B	12	SER	O-C-N	5.65	130.11	122.59
1	C	121	ALA	CA-C-O	5.65	126.26	119.59
1	F	29	ARG	CB-CA-C	5.65	121.66	110.42
1	E	74	GLN	CA-C-O	5.65	128.59	120.51
1	B	108	TRP	CE3-CZ3-CH2	5.65	128.44	121.10
1	D	59	ARG	NE-CZ-NH2	5.65	124.28	119.20
1	F	102	ILE	CB-CA-C	-5.65	102.23	110.81
1	C	103	TYR	CE1-CZ-CE2	5.65	131.59	120.30
1	C	18	HIS	CA-C-N	-5.64	111.26	121.14
1	C	18	HIS	C-N-CA	-5.64	111.26	121.14
1	E	185	ALA	N-CA-C	5.64	118.83	109.46
1	B	19	ALA	N-CA-CB	-5.64	97.51	110.83
1	E	71	LEU	CB-CG-CD1	5.64	127.62	110.70
1	A	161	ASN	N-CA-C	5.64	118.29	108.76
1	C	132	GLN	N-CA-CB	5.64	121.83	111.96
1	D	69	VAL	N-CA-CB	5.64	119.88	112.60
1	D	74	GLN	CB-CG-CD	-5.64	103.02	112.60
1	D	167	ARG	N-CA-CB	5.64	120.02	110.49
1	B	68	LEU	N-CA-C	-5.64	101.94	110.28
1	E	162	LEU	CA-C-N	-5.64	114.11	122.23
1	E	162	LEU	C-N-CA	-5.64	114.11	122.23
1	B	18	HIS	ND1-CG-CD2	5.63	111.73	106.10
1	B	215	TYR	CE1-CZ-OH	5.63	136.80	119.90
1	F	190	ASN	N-CA-C	5.63	122.80	110.80
1	E	142	HIS	ND1-CG-CD2	-5.63	100.47	106.10
1	B	153	ARG	N-CA-C	5.63	122.79	110.80
1	C	1	ASN	OD1-CG-ND2	5.63	128.23	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	33	GLN	N-CA-C	5.63	122.79	110.80
1	E	189	PRO	N-CD-CG	-5.63	94.76	103.20
1	C	52	THR	CA-C-O	-5.62	112.47	120.51
1	D	198	ASN	CA-C-O	5.62	128.55	120.51
1	B	210	ARG	CA-CB-CG	5.62	125.35	114.10
1	D	190	ASN	CA-C-O	-5.62	112.68	119.03
1	C	78	ARG	CB-CG-CD	-5.62	98.38	111.30
1	E	52	THR	CA-C-O	-5.62	110.34	121.35
1	F	95	GLN	CB-CA-C	-5.62	100.61	109.09
1	F	159	ASP	N-CA-C	-5.62	102.10	111.37
1	B	222	ASP	CB-CG-OD2	-5.61	105.49	118.40
1	C	31	THR	N-CA-CB	5.61	119.44	110.46
1	D	129	TYR	CB-CG-CD1	-5.61	112.38	120.80
1	F	59	ARG	CA-C-N	-5.61	109.68	121.64
1	F	59	ARG	C-N-CA	-5.61	109.68	121.64
1	F	66	GLY	CA-C-O	5.61	126.88	119.58
1	A	228	TYR	OH-CZ-CE2	5.61	136.74	119.90
1	B	143	ALA	CA-C-N	5.61	132.26	121.54
1	B	143	ALA	C-N-CA	5.61	132.26	121.54
1	B	174	THR	N-CA-C	5.61	120.28	113.38
1	D	220	GLN	CA-C-N	-5.61	113.89	119.56
1	D	220	GLN	C-N-CA	-5.61	113.89	119.56
1	C	100	VAL	CA-C-N	-5.61	112.13	121.89
1	C	100	VAL	C-N-CA	-5.61	112.13	121.89
1	E	170	ARG	CG-CD-NE	5.61	124.33	112.00
1	F	142	HIS	N-CA-CB	5.61	119.03	109.10
1	D	150	SER	CA-CB-OG	5.61	122.31	111.10
1	E	87	ILE	O-C-N	-5.61	115.56	122.57
1	A	140	THR	O-C-N	5.60	129.87	123.48
1	D	224	ASN	CB-CG-ND2	-5.60	108.00	116.40
1	D	217	PHE	CB-CG-CD2	5.60	130.22	120.70
1	D	180	GLY	CA-C-O	5.60	130.32	120.57
1	F	98	ARG	CB-CG-CD	5.60	124.18	111.30
1	B	8	SER	CB-CA-C	-5.60	99.71	110.24
1	C	215	TYR	N-CA-CB	-5.60	102.09	110.60
1	C	82	GLY	CA-C-N	-5.60	112.23	123.09
1	C	82	GLY	C-N-CA	-5.60	112.23	123.09
1	F	69	VAL	CA-C-O	-5.60	114.12	120.67
1	F	152	TYR	CZ-CE2-CD2	-5.59	109.53	119.60
1	C	111	GLY	CA-C-O	-5.59	110.84	120.57
1	B	95	GLN	OE1-CD-NE2	-5.59	117.01	122.60
1	E	71	LEU	CB-CA-C	-5.59	100.05	109.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	231	ALA	N-CA-C	5.59	122.70	110.80
1	E	173	SER	CA-C-N	5.59	129.54	120.60
1	E	173	SER	C-N-CA	5.59	129.54	120.60
1	C	216	VAL	CA-C-O	-5.58	113.80	120.78
1	F	155	SER	N-CA-CB	5.58	119.12	110.46
1	C	87	ILE	CA-CB-CG1	-5.58	100.91	110.40
1	F	13	HIS	C-N-CD	-5.58	102.11	125.00
1	B	228	TYR	CZ-CE2-CD2	-5.58	109.55	119.60
1	F	65	ASP	O-C-N	-5.58	115.39	122.26
1	A	142	HIS	CA-CB-CG	5.58	119.38	113.80
1	B	29	ARG	CA-C-N	-5.58	115.19	123.11
1	B	29	ARG	C-N-CA	-5.58	115.19	123.11
1	D	61	VAL	O-C-N	5.58	129.54	122.57
1	D	106	GLY	CA-C-N	5.58	132.19	121.54
1	D	106	GLY	C-N-CA	5.58	132.19	121.54
1	E	104	GLY	O-C-N	-5.58	116.19	121.77
1	F	1	ASN	CB-CG-OD1	-5.58	109.65	120.80
1	D	147	LEU	N-CA-CB	-5.58	101.07	110.49
1	D	167	ARG	CB-CG-CD	5.58	124.12	111.30
1	F	144	THR	O-C-N	-5.58	115.17	122.59
1	A	123	ASN	CB-CA-C	-5.57	99.88	113.15
1	A	37	ASN	CB-CG-ND2	5.57	124.76	116.40
1	C	15	GLN	N-CA-CB	5.57	118.69	110.56
1	A	233	TRP	CD2-CE3-CZ3	-5.57	111.36	118.60
1	F	4	LEU	CA-C-N	5.57	130.33	122.09
1	F	4	LEU	C-N-CA	5.57	130.33	122.09
1	F	174	THR	O-C-N	-5.57	116.22	122.34
1	B	30	PHE	CD1-CE1-CZ	-5.57	109.98	120.00
1	C	30	PHE	O-C-N	5.57	131.42	122.96
1	C	76	THR	CA-C-O	-5.56	114.13	121.86
1	C	13	HIS	N-CA-C	5.56	121.27	108.93
1	C	174	THR	CA-CB-CG2	5.56	119.95	110.50
1	A	116	GLY	O-C-N	-5.56	119.19	123.80
1	C	59	ARG	N-CA-CB	-5.56	101.47	110.81
1	B	129	TYR	CB-CG-CD2	-5.56	112.47	120.80
1	C	48	TRP	CE3-CZ3-CH2	5.56	128.32	121.10
1	C	42	ASP	CB-CA-C	-5.55	102.23	110.62
1	C	47	VAL	CA-CB-CG1	5.55	119.84	110.40
1	D	139	GLN	CB-CA-C	-5.55	101.09	110.64
1	E	48	TRP	N-CA-CB	-5.55	102.62	111.62
1	D	123	ASN	OD1-CG-ND2	-5.55	117.05	122.60
1	D	164	LEU	CB-CG-CD1	5.55	127.35	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	227	ILE	CA-C-O	-5.55	114.87	120.31
1	C	65	ASP	CB-CG-OD2	5.55	131.17	118.40
1	E	214	ARG	CB-CG-CD	5.55	124.06	111.30
1	A	93	VAL	CA-C-N	5.55	130.82	123.00
1	A	93	VAL	C-N-CA	5.55	130.82	123.00
1	D	74	GLN	N-CA-CB	-5.55	102.73	111.39
1	C	39	VAL	N-CA-C	5.55	120.88	109.34
1	C	97	ASP	N-CA-CB	5.55	118.70	110.49
1	F	52	THR	N-CA-CB	-5.55	101.18	110.22
1	D	198	ASN	CA-C-N	5.54	132.83	122.74
1	D	198	ASN	C-N-CA	5.54	132.83	122.74
1	C	81	SER	CA-CB-OG	-5.54	100.02	111.10
1	B	30	PHE	N-CA-C	5.54	117.80	107.99
1	B	46	ARG	CA-CB-CG	-5.54	103.03	114.10
1	C	22	SER	CA-CB-OG	-5.54	100.03	111.10
1	E	198	ASN	CA-C-N	5.54	131.47	122.67
1	E	198	ASN	C-N-CA	5.54	131.47	122.67
1	A	106	GLY	CA-C-N	-5.53	110.97	121.54
1	A	106	GLY	C-N-CA	-5.53	110.97	121.54
1	E	42	ASP	CB-CG-OD2	-5.53	105.68	118.40
1	D	14	PRO	N-CA-C	5.53	123.86	112.47
1	E	179	LYS	N-CA-C	-5.53	103.68	110.65
1	F	166	ASP	CB-CG-OD2	-5.53	105.68	118.40
1	F	214	ARG	N-CA-CB	-5.53	101.89	110.57
1	E	63	GLN	CG-CD-OE1	5.53	131.85	120.80
1	A	51	ASN	N-CA-C	-5.52	104.52	111.92
1	C	69	VAL	CA-CB-CG2	-5.52	101.01	110.40
1	D	62	LEU	N-CA-C	-5.52	98.25	107.80
1	D	194	ASP	CA-C-N	-5.52	115.87	122.22
1	D	194	ASP	C-N-CA	-5.52	115.87	122.22
1	D	203	VAL	CB-CA-C	-5.52	104.81	112.04
1	A	139	GLN	CB-CG-CD	-5.52	103.21	112.60
1	C	168	ASP	O-C-N	-5.52	115.25	122.59
1	F	62	LEU	CB-CA-C	-5.52	99.61	109.71
1	C	27	SER	CA-CB-OG	-5.52	100.06	111.10
1	F	71	LEU	N-CA-CB	-5.52	101.64	110.63
1	A	77	ILE	N-CA-CB	-5.52	102.13	111.23
1	A	27	SER	CA-CB-OG	5.51	122.13	111.10
1	A	108	TRP	CB-CA-C	5.51	119.30	109.65
1	B	228	TYR	CD1-CG-CD2	-5.51	109.83	118.10
1	D	108	TRP	CD2-CE2-CZ2	5.51	127.91	122.40
1	C	137	HIS	CE1-NE2-CD2	-5.51	103.49	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	204	TRP	CD2-CE2-CZ2	5.51	127.91	122.40
1	E	150	SER	CA-C-O	5.51	127.71	120.16
1	E	152	TYR	CB-CG-CD1	5.51	129.06	120.80
1	E	200	ASN	CA-CB-CG	-5.51	107.09	112.60
1	A	215	TYR	CB-CA-C	-5.51	99.00	110.40
1	A	79	TRP	CD2-CE3-CZ3	5.51	125.76	118.60
1	B	23	LEU	CA-C-O	-5.51	114.75	120.70
1	A	190	ASN	CB-CG-ND2	5.50	124.66	116.40
1	D	51	ASN	CB-CA-C	-5.50	103.77	111.80
1	D	66	GLY	N-CA-C	5.50	123.67	113.76
1	C	40	LEU	CA-CB-CG	5.50	135.56	116.30
1	E	47	VAL	N-CA-C	-5.50	105.25	110.42
1	D	166	ASP	CB-CG-OD2	-5.50	105.75	118.40
1	F	175	ASN	N-CA-C	-5.50	99.08	110.80
1	D	77	ILE	CA-C-O	5.50	127.65	120.78
1	D	84	LYS	CG-CD-CE	-5.50	98.66	111.30
1	D	232	LEU	N-CA-CB	-5.49	103.59	110.90
1	F	101	THR	CB-CA-C	-5.49	98.62	111.09
1	A	31	THR	N-CA-C	5.49	117.69	108.96
1	C	7	LEU	CA-C-O	-5.49	111.91	119.05
1	A	117	SER	CA-C-N	5.49	131.85	121.97
1	A	117	SER	C-N-CA	5.49	131.85	121.97
1	E	54	GLY	O-C-N	-5.49	115.91	122.33
1	B	48	TRP	N-CA-C	5.49	115.36	108.45
1	B	193	MET	CB-CA-C	5.49	122.15	110.19
1	F	3	ILE	CA-C-N	5.49	130.57	123.00
1	F	3	ILE	C-N-CA	5.49	130.57	123.00
1	F	76	THR	OG1-CB-CG2	-5.49	98.33	109.30
1	C	219	LEU	CD1-CG-CD2	-5.48	98.74	110.80
1	A	19	ALA	N-CA-C	-5.48	99.12	110.80
1	C	215	TYR	CA-C-N	5.48	131.83	121.97
1	C	215	TYR	C-N-CA	5.48	131.83	121.97
1	D	142	HIS	CE1-NE2-CD2	5.48	114.48	109.00
1	E	227	ILE	CA-C-N	5.48	130.16	121.99
1	E	227	ILE	C-N-CA	5.48	130.16	121.99
1	B	20	ALA	N-CA-CB	-5.48	102.34	110.61
1	E	18	HIS	CB-CG-ND1	5.48	130.92	122.70
1	A	18	HIS	CE1-NE2-CD2	-5.48	103.52	109.00
1	E	129	TYR	N-CA-CB	-5.47	101.24	110.49
1	F	71	LEU	N-CA-C	5.47	118.98	110.17
1	B	108	TRP	CB-CG-CD2	5.47	134.46	126.80
1	B	140	THR	O-C-N	5.47	128.76	123.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	163	VAL	CA-CB-CG2	-5.47	101.09	110.40
1	E	109	ASP	CA-C-N	-5.47	111.57	120.71
1	E	109	ASP	C-N-CA	-5.47	111.57	120.71
1	C	196	LEU	CB-CG-CD2	5.47	127.11	110.70
1	A	96	PRO	CA-N-CD	-5.47	104.34	112.00
1	A	101	THR	N-CA-CB	-5.47	102.53	111.66
1	A	110	SER	N-CA-CB	-5.47	102.07	110.16
1	B	23	LEU	CD1-CG-CD2	-5.47	98.77	110.80
1	F	225	LEU	CA-C-N	-5.47	111.13	121.63
1	F	225	LEU	C-N-CA	-5.47	111.13	121.63
1	F	29	ARG	O-C-N	-5.46	115.32	122.59
1	F	96	PRO	CB-CA-C	5.46	120.58	111.56
1	F	10	GLU	CG-CD-OE1	5.46	130.97	118.40
1	D	93	VAL	O-C-N	-5.46	117.30	122.98
1	B	227	ILE	CA-CB-CG2	5.46	119.78	110.50
1	D	110	SER	N-CA-C	5.46	116.92	110.97
1	A	177	ALA	O-C-N	5.46	129.07	122.68
1	D	91	VAL	CG1-CB-CG2	-5.46	98.79	110.80
1	E	38	LEU	CB-CG-CD2	-5.46	94.33	110.70
1	B	20	ALA	CA-C-O	-5.46	112.83	119.32
1	C	59	ARG	NH1-CZ-NH2	5.46	126.39	119.30
1	F	233	TRP	CB-CG-CD2	-5.46	119.16	126.80
1	D	140	THR	O-C-N	-5.46	117.78	123.56
1	D	232	LEU	CA-C-N	-5.45	112.48	121.80
1	D	232	LEU	C-N-CA	-5.45	112.48	121.80
1	F	164	LEU	CB-CA-C	-5.45	101.42	110.14
1	C	105	PRO	CB-CA-C	-5.45	102.57	111.56
1	F	40	LEU	N-CA-C	5.45	117.56	108.02
1	E	63	GLN	CA-CB-CG	-5.45	103.21	114.10
1	F	227	ILE	CA-CB-CG2	5.44	119.75	110.50
1	F	42	ASP	CB-CA-C	-5.44	103.30	111.73
1	C	67	LEU	CA-C-N	-5.44	114.45	123.37
1	C	67	LEU	C-N-CA	-5.44	114.45	123.37
1	D	11	GLY	N-CA-C	-5.44	100.28	113.18
1	E	57	GLY	CA-C-O	5.44	130.04	120.57
1	C	220	GLN	CG-CD-NE2	5.44	124.56	116.40
1	A	16	THR	O-C-N	5.44	129.57	123.48
1	E	192	ARG	CG-CD-NE	5.44	123.96	112.00
1	F	29	ARG	CB-CG-CD	-5.44	98.80	111.30
1	F	79	TRP	CZ3-CH2-CZ2	5.44	128.57	121.50
1	A	233	TRP	CA-C-O	5.43	128.28	120.51
1	B	170	ARG	NE-CZ-NH1	5.43	126.94	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	141	LEU	CB-CA-C	-5.43	100.32	109.72
1	C	5	PHE	CE1-CZ-CE2	-5.43	110.22	120.00
1	E	37	ASN	N-CA-C	5.43	117.56	109.25
1	C	74	GLN	CA-CB-CG	-5.43	103.25	114.10
1	E	190	ASN	CB-CG-ND2	5.43	124.54	116.40
1	A	118	VAL	CA-C-O	5.42	127.56	120.78
1	F	14	PRO	CB-CG-CD	-5.42	88.75	106.10
1	E	172	TRP	CE2-CD2-CE3	-5.42	113.38	118.80
1	A	44	ASP	O-C-N	-5.42	115.38	122.59
1	D	232	LEU	CA-CB-CG	5.42	135.26	116.30
1	F	66	GLY	CA-C-N	-5.42	112.40	121.39
1	F	66	GLY	C-N-CA	-5.42	112.40	121.39
1	B	47	VAL	CA-C-O	-5.41	115.41	120.34
1	F	63	GLN	CA-C-N	-5.41	111.20	121.54
1	F	63	GLN	C-N-CA	-5.41	111.20	121.54
1	A	152	TYR	CD1-CG-CD2	-5.41	109.98	118.10
1	E	44	ASP	O-C-N	-5.41	116.31	123.13
1	E	228	TYR	N-CA-CB	5.41	118.60	109.94
1	B	56	THR	CA-C-O	-5.41	112.78	120.51
1	D	38	LEU	N-CA-CB	5.41	119.23	110.42
1	E	98	ARG	CA-CB-CG	-5.41	103.29	114.10
1	A	146	SER	CA-C-O	-5.41	112.78	120.51
1	D	3	ILE	CA-CB-CG1	-5.40	101.22	110.40
1	D	145	GLN	N-CA-CB	5.40	118.32	109.95
1	E	107	LEU	CA-C-N	-5.40	112.29	121.85
1	E	107	LEU	C-N-CA	-5.40	112.29	121.85
1	C	21	GLN	CA-C-O	-5.40	114.60	120.81
1	E	41	PHE	CA-C-O	-5.40	114.80	121.06
1	B	58	CYS	CA-C-N	5.40	133.96	121.87
1	B	58	CYS	C-N-CA	5.40	133.96	121.87
1	E	82	GLY	CA-C-O	-5.40	111.17	120.57
1	B	142	HIS	CE1-NE2-CD2	5.40	114.40	109.00
1	C	201	ILE	N-CA-CB	-5.40	104.00	111.99
1	E	73	ALA	O-C-N	-5.40	115.41	122.59
1	E	164	LEU	CA-C-O	-5.40	114.38	120.32
1	F	21	GLN	CA-CB-CG	5.40	124.89	114.10
1	A	5	PHE	N-CA-C	5.40	119.03	109.96
1	B	39	VAL	CB-CA-C	-5.39	102.52	110.82
1	D	103	TYR	O-C-N	-5.39	116.88	123.30
1	A	156	MET	O-C-N	-5.39	116.47	122.93
1	A	51	ASN	CB-CG-OD1	-5.39	110.03	120.80
1	D	30	PHE	CG-CD2-CE2	-5.39	111.54	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	61	VAL	CA-CB-CG1	5.39	119.56	110.40
1	F	157	GLU	N-CA-C	-5.38	102.07	110.42
1	B	41	PHE	CA-CB-CG	-5.38	108.42	113.80
1	B	215	TYR	CB-CG-CD2	-5.38	112.73	120.80
1	E	101	THR	CA-CB-OG1	-5.38	101.53	109.60
1	A	27	SER	CA-C-O	-5.38	112.82	120.51
1	D	227	ILE	N-CA-C	-5.38	100.67	108.36
1	B	25	LEU	CB-CA-C	-5.38	101.48	110.19
1	E	39	VAL	CB-CA-C	-5.38	101.09	110.71
1	C	52	THR	O-C-N	-5.37	115.44	122.59
1	C	173	SER	CA-C-O	-5.37	115.15	121.44
1	F	226	ALA	O-C-N	5.37	129.49	123.48
1	D	215	TYR	N-CA-CB	5.37	120.04	111.56
1	D	32	MET	CA-CB-CG	5.37	124.83	114.10
1	D	148	GLN	N-CA-C	5.36	117.82	108.76
1	D	161	ASN	CA-C-N	-5.36	115.29	122.42
1	D	161	ASN	C-N-CA	-5.36	115.29	122.42
1	E	61	VAL	CG1-CB-CG2	-5.36	99.00	110.80
1	F	18	HIS	N-CA-CB	-5.36	101.43	110.49
1	A	136	ASN	N-CA-CB	5.36	119.52	110.46
1	B	58	CYS	N-CA-CB	-5.36	103.00	110.29
1	B	177	ALA	N-CA-CB	-5.36	102.36	110.40
1	D	39	VAL	CA-CB-CG1	-5.36	101.29	110.40
1	D	91	VAL	CA-C-O	5.36	126.27	120.43
1	E	8	SER	CB-CA-C	-5.36	101.01	109.80
1	A	99	THR	N-CA-CB	-5.36	102.76	111.22
1	E	79	TRP	CA-C-N	-5.36	113.47	123.01
1	E	79	TRP	C-N-CA	-5.36	113.47	123.01
1	E	103	TYR	CA-C-N	5.36	130.28	121.87
1	E	103	TYR	C-N-CA	5.36	130.28	121.87
1	E	157	GLU	CG-CD-OE1	-5.36	106.08	118.40
1	F	75	ASN	CB-CG-OD1	-5.36	110.09	120.80
1	C	173	SER	N-CA-CB	5.35	120.87	111.55
1	D	154	LEU	CB-CG-CD2	-5.35	94.64	110.70
1	C	36	CYS	N-CA-CB	-5.35	101.45	110.49
1	F	14	PRO	CB-CA-C	-5.35	102.74	111.56
1	C	44	ASP	O-C-N	-5.35	116.11	122.63
1	D	94	LEU	CB-CG-CD1	-5.34	94.67	110.70
1	A	190	ASN	CB-CA-C	5.34	120.64	111.45
1	C	159	ASP	OD1-CG-OD2	-5.34	110.08	122.90
1	D	215	TYR	CE1-CZ-OH	5.34	135.93	119.90
1	A	39	VAL	CA-C-N	-5.34	114.69	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	39	VAL	C-N-CA	-5.34	114.69	122.65
1	C	232	LEU	N-CA-C	5.34	122.18	110.80
1	D	203	VAL	CA-C-N	5.34	131.13	122.53
1	D	203	VAL	C-N-CA	5.34	131.13	122.53
1	F	149	LEU	CA-CB-CG	-5.34	97.61	116.30
1	A	98	ARG	NE-CZ-NH1	-5.34	116.16	121.50
1	D	30	PHE	N-CA-C	5.34	118.14	107.62
1	D	93	VAL	CA-CB-CG1	5.34	119.48	110.40
1	D	90	TYR	CA-C-N	5.34	130.49	122.75
1	D	90	TYR	C-N-CA	5.34	130.49	122.75
1	A	87	ILE	CG1-CB-CG2	-5.34	94.69	110.70
1	A	195	VAL	CA-C-N	-5.34	114.43	122.81
1	A	195	VAL	C-N-CA	-5.34	114.43	122.81
1	C	84	LYS	CG-CD-CE	5.34	123.58	111.30
1	C	62	LEU	N-CA-C	-5.33	99.25	108.69
1	F	194	ASP	OD1-CG-OD2	-5.33	110.10	122.90
1	E	145	GLN	N-CA-CB	5.33	119.77	110.81
1	A	28	PHE	CZ-CE2-CD2	-5.33	110.41	120.00
1	B	136	ASN	N-CA-C	5.33	125.92	111.00
1	A	35	ASP	N-CA-C	5.33	117.70	110.88
1	E	5	PHE	CG-CD2-CE2	5.33	129.75	120.70
1	E	154	LEU	CD1-CG-CD2	-5.32	99.09	110.80
1	F	59	ARG	CB-CG-CD	5.32	123.54	111.30
1	F	216	VAL	CA-CB-CG2	5.32	119.45	110.40
1	A	176	THR	O-C-N	-5.32	115.37	122.28
1	F	189	PRO	N-CD-CG	5.32	111.18	103.20
1	D	22	SER	CA-C-N	-5.32	115.22	122.93
1	D	22	SER	C-N-CA	-5.32	115.22	122.93
1	D	42	ASP	CB-CG-OD2	-5.32	106.17	118.40
1	D	93	VAL	N-CA-C	5.32	116.97	108.89
1	A	45	VAL	CB-CA-C	5.32	120.01	111.29
1	D	13	HIS	N-CA-C	5.32	121.56	109.81
1	D	126	SER	N-CA-CB	-5.32	101.75	110.41
1	E	44	ASP	CA-C-N	5.32	131.54	121.97
1	E	44	ASP	C-N-CA	5.32	131.54	121.97
1	B	12	SER	CA-C-N	5.31	131.51	122.06
1	B	12	SER	C-N-CA	5.31	131.51	122.06
1	B	68	LEU	CD1-CG-CD2	-5.31	99.11	110.80
1	A	227	ILE	CA-C-O	-5.31	114.46	120.67
1	C	30	PHE	CE1-CZ-CE2	-5.31	110.44	120.00
1	F	3	ILE	N-CA-C	-5.31	100.83	108.53
1	E	61	VAL	CB-CA-C	-5.31	102.58	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	215	TYR	OH-CZ-CE2	-5.30	103.98	119.90
1	E	144	THR	N-CA-CB	5.30	124.13	113.89
1	B	45	VAL	O-C-N	5.30	129.20	122.57
1	C	197	THR	CA-C-N	5.30	127.82	120.29
1	C	197	THR	C-N-CA	5.30	127.82	120.29
1	D	233	TRP	CG-CD2-CE3	-5.30	128.60	133.90
1	E	84	LYS	CA-C-N	-5.30	116.84	122.67
1	E	84	LYS	C-N-CA	-5.30	116.84	122.67
1	A	61	VAL	CB-CA-C	-5.29	102.61	111.29
1	C	139	GLN	CA-C-N	5.29	131.65	121.54
1	C	139	GLN	C-N-CA	5.29	131.65	121.54
1	D	23	LEU	N-CA-CB	5.29	119.22	110.69
1	F	95	GLN	CG-CD-OE1	-5.29	110.22	120.80
1	F	216	VAL	N-CA-CB	-5.29	101.56	111.62
1	E	172	TRP	CB-CG-CD2	5.29	134.21	126.80
1	B	78	ARG	N-CA-CB	-5.29	103.96	111.00
1	C	179	LYS	CB-CG-CD	5.29	123.47	111.30
1	B	111	GLY	N-CA-C	5.29	125.71	113.18
1	D	14	PRO	CA-N-CD	-5.29	104.60	112.00
1	E	195	VAL	CG1-CB-CG2	5.29	122.43	110.80
1	C	51	ASN	CA-CB-CG	5.29	117.89	112.60
1	D	109	ASP	O-C-N	-5.29	117.71	123.26
1	B	79	TRP	CB-CG-CD1	-5.28	118.97	126.90
1	C	92	LEU	CD1-CG-CD2	-5.28	99.18	110.80
1	E	106	GLY	N-CA-C	-5.28	103.25	112.55
1	A	46	ARG	NE-CZ-NH1	5.28	126.78	121.50
1	C	91	VAL	CA-C-O	-5.28	114.76	120.67
1	A	225	LEU	N-CA-CB	-5.28	102.19	110.69
1	B	153	ARG	CB-CA-C	-5.28	99.92	110.42
1	F	12	SER	CA-CB-OG	5.27	121.65	111.10
1	E	4	LEU	CB-CA-C	5.27	119.89	109.66
1	E	8	SER	N-CA-C	-5.27	100.71	109.46
1	A	33	GLN	N-CA-CB	5.27	118.63	110.46
1	B	149	LEU	CA-CB-CG	-5.27	97.85	116.30
1	C	17	LEU	O-C-N	-5.27	116.49	123.13
1	D	45	VAL	CB-CA-C	5.27	119.93	111.29
1	D	92	LEU	O-C-N	5.27	129.67	122.82
1	C	227	ILE	CB-CG1-CD1	5.27	124.86	113.80
1	E	213	GLY	N-CA-C	-5.27	100.70	113.18
1	D	98	ARG	O-C-N	-5.26	116.34	121.87
1	E	197	THR	OG1-CB-CG2	5.26	119.83	109.30
1	F	203	VAL	N-CA-CB	5.26	122.10	111.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	114	ASN	N-CA-CB	-5.26	101.56	110.50
1	E	163	VAL	N-CA-CB	5.26	121.62	111.62
1	A	168	ASP	N-CA-C	5.26	122.00	110.80
1	C	140	THR	CA-C-N	-5.26	115.39	123.07
1	C	140	THR	C-N-CA	-5.26	115.39	123.07
1	E	16	THR	O-C-N	5.26	129.27	123.33
1	E	77	ILE	CA-C-O	5.26	127.99	120.89
1	E	223	ARG	CA-C-N	-5.26	110.28	121.32
1	E	223	ARG	C-N-CA	-5.26	110.28	121.32
1	F	44	ASP	N-CA-C	-5.26	99.60	110.80
1	F	87	ILE	CA-CB-CG2	5.26	119.44	110.50
1	E	199	GLN	CB-CG-CD	-5.26	103.66	112.60
1	F	209	SER	CA-C-N	-5.26	113.38	122.10
1	F	209	SER	C-N-CA	-5.26	113.38	122.10
1	C	211	SER	CA-CB-OG	5.25	121.61	111.10
1	A	28	PHE	CG-CD2-CE2	5.25	129.63	120.70
1	A	36	CYS	O-C-N	5.25	129.40	122.04
1	B	15	GLN	N-CA-C	-5.25	105.59	113.89
1	F	69	VAL	N-CA-C	-5.25	100.92	108.48
1	C	71	LEU	CB-CG-CD1	5.25	126.45	110.70
1	D	89	ASN	CA-C-O	5.25	128.01	120.51
1	C	128	LEU	CB-CG-CD1	5.25	126.44	110.70
1	C	13	HIS	ND1-CE1-NE2	5.25	113.64	108.40
1	B	199	GLN	N-CA-C	-5.24	106.88	113.28
1	D	108	TRP	N-CA-C	5.24	117.22	108.99
1	B	198	ASN	CA-C-N	5.24	131.81	122.06
1	B	198	ASN	C-N-CA	5.24	131.81	122.06
1	B	14	PRO	CA-N-CD	-5.24	104.16	111.50
1	D	197	THR	CA-C-O	-5.24	115.29	121.16
1	B	193	MET	CB-CG-SD	-5.24	96.99	112.70
1	E	221	PRO	CA-C-N	-5.24	113.23	123.13
1	E	221	PRO	C-N-CA	-5.24	113.23	123.13
1	F	142	HIS	N-CA-C	5.24	118.70	109.80
1	A	220	GLN	O-C-N	-5.23	115.30	121.32
1	D	182	GLY	O-C-N	-5.23	115.90	122.70
1	F	163	VAL	N-CA-CB	-5.23	102.60	111.23
1	C	142	HIS	CG-CD2-NE2	5.23	112.43	107.20
1	F	71	LEU	O-C-N	5.23	129.12	123.10
1	C	133	GLY	N-CA-C	-5.23	98.14	113.30
1	A	43	SER	N-CA-C	5.23	121.93	110.80
1	A	96	PRO	CA-C-N	-5.22	111.56	121.54
1	A	96	PRO	C-N-CA	-5.22	111.56	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	7	LEU	CA-C-N	-5.22	111.57	121.54
1	D	7	LEU	C-N-CA	-5.22	111.57	121.54
1	B	94	LEU	CB-CG-CD2	-5.22	95.04	110.70
1	B	227	ILE	CA-C-N	-5.22	110.28	121.45
1	B	227	ILE	C-N-CA	-5.22	110.28	121.45
1	C	199	GLN	CB-CA-C	5.22	119.82	111.73
1	B	233	TRP	CE2-CD2-CE3	-5.22	113.58	118.80
1	D	95	GLN	CA-C-O	-5.22	115.91	120.60
1	F	197	THR	CB-CA-C	-5.22	102.06	110.77
1	E	66	GLY	O-C-N	-5.21	115.92	122.70
1	A	52	THR	CA-C-O	-5.21	113.06	120.51
1	C	210	ARG	CB-CG-CD	5.21	123.29	111.30
1	F	9	HIS	N-CA-CB	-5.21	101.68	110.49
1	F	33	GLN	O-C-N	5.21	128.81	122.14
1	B	163	VAL	N-CA-C	5.21	120.18	109.34
1	E	58	CYS	CA-CB-SG	-5.21	102.42	114.40
1	F	80	SER	N-CA-CB	5.21	120.86	111.37
1	F	96	PRO	CA-N-CD	-5.21	104.71	112.00
1	F	70	ILE	O-C-N	-5.21	116.06	122.88
1	B	78	ARG	CD-NE-CZ	5.20	131.69	124.40
1	D	224	ASN	CA-C-O	-5.20	115.02	121.11
1	F	80	SER	CA-C-O	5.20	127.20	121.11
1	D	42	ASP	CA-C-O	-5.20	114.89	120.46
1	A	136	ASN	CA-C-O	-5.20	114.77	120.70
1	B	227	ILE	N-CA-C	5.20	114.23	106.85
1	C	77	ILE	CA-CB-CG2	-5.20	101.66	110.50
1	D	51	ASN	CB-CG-ND2	-5.20	108.60	116.40
1	B	78	ARG	CA-CB-CG	-5.20	103.70	114.10
1	B	105	PRO	N-CA-C	5.20	123.18	112.47
1	B	171	VAL	O-C-N	-5.20	116.05	122.18
1	E	77	ILE	N-CA-C	5.20	114.75	107.37
1	E	188	GLN	CG-CD-OE1	-5.20	110.40	120.80
1	D	145	GLN	OE1-CD-NE2	5.20	127.80	122.60
1	A	93	VAL	CG1-CB-CG2	5.19	122.22	110.80
1	B	86	SER	N-CA-C	-5.19	99.74	110.80
1	B	189	PRO	CA-CB-CG	-5.19	94.64	104.50
1	D	230	GLY	CA-C-O	-5.19	111.54	120.57
1	C	227	ILE	O-C-N	5.19	128.63	123.18
1	E	221	PRO	N-CA-C	-5.19	101.78	112.47
1	E	153	ARG	CA-C-O	-5.19	113.09	120.51
1	A	48	TRP	N-CA-CB	-5.19	102.53	111.55
1	F	5	PHE	CB-CA-C	5.19	118.09	109.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	222	ASP	CA-C-N	5.18	131.19	123.05
1	F	222	ASP	C-N-CA	5.18	131.19	123.05
1	A	62	LEU	O-C-N	-5.18	116.49	123.23
1	B	180	GLY	CA-C-O	-5.18	109.92	120.80
1	C	7	LEU	CA-C-N	5.18	129.31	122.42
1	C	7	LEU	C-N-CA	5.18	129.31	122.42
1	C	208	ASN	CA-CB-CG	5.18	117.78	112.60
1	D	137	HIS	ND1-CG-CD2	5.18	111.28	106.10
1	B	63	GLN	CA-CB-CG	-5.18	103.74	114.10
1	D	38	LEU	CA-CB-CG	-5.18	98.18	116.30
1	D	97	ASP	O-C-N	-5.18	115.70	122.59
1	D	214	ARG	N-CA-CB	-5.18	102.18	110.46
1	B	157	GLU	N-CA-C	-5.17	103.70	110.53
1	D	124	GLY	O-C-N	-5.17	115.97	122.70
1	F	102	ILE	CA-C-O	-5.17	114.82	120.72
1	B	150	SER	O-C-N	-5.17	115.37	121.32
1	B	198	ASN	N-CA-CB	-5.17	101.75	110.49
1	E	53	ALA	CB-CA-C	5.17	121.36	111.48
1	F	7	LEU	CA-CB-CG	-5.17	98.19	116.30
1	B	181	THR	CB-CA-C	5.17	120.71	110.42
1	C	108	TRP	CB-CG-CD1	5.17	134.66	126.90
1	C	30	PHE	CD1-CE1-CZ	5.17	129.30	120.00
1	E	90	TYR	CB-CA-C	-5.17	101.67	109.99
1	E	94	LEU	CA-C-O	-5.17	114.64	120.32
1	F	153	ARG	NH1-CZ-NH2	5.17	126.02	119.30
1	F	210	ARG	NE-CZ-NH2	-5.17	114.55	119.20
1	A	6	GLY	O-C-N	-5.16	117.35	122.82
1	A	46	ARG	NE-CZ-NH2	-5.16	114.56	119.20
1	C	158	THR	CA-C-N	5.16	131.64	121.58
1	C	158	THR	C-N-CA	5.16	131.64	121.58
1	E	41	PHE	CZ-CE2-CD2	-5.16	110.72	120.00
1	D	232	LEU	CB-CG-CD1	-5.16	95.23	110.70
1	E	192	ARG	CA-CB-CG	5.16	124.41	114.10
1	B	186	VAL	CG1-CB-CG2	-5.15	99.46	110.80
1	F	167	ARG	NE-CZ-NH2	5.15	123.84	119.20
1	A	42	ASP	N-CA-CB	-5.15	102.67	110.35
1	B	190	ASN	N-CA-CB	5.15	119.20	110.49
1	C	59	ARG	CA-C-O	5.15	126.61	120.28
1	D	203	VAL	N-CA-C	5.15	116.49	110.62
1	D	217	PHE	CE1-CZ-CE2	5.15	129.26	120.00
1	C	141	LEU	CA-CB-CG	5.14	134.31	116.30
1	B	161	ASN	CB-CG-ND2	-5.14	108.69	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	39	VAL	N-CA-CB	-5.14	102.75	111.23
1	C	95	GLN	CA-CB-CG	5.14	124.39	114.10
1	D	15	GLN	OE1-CD-NE2	-5.14	117.46	122.60
1	F	151	PRO	CA-CB-CG	5.14	114.27	104.50
1	E	67	LEU	N-CA-CB	5.14	118.79	110.41
1	E	222	ASP	CB-CG-OD2	5.14	130.22	118.40
1	D	108	TRP	CG-CD2-CE3	5.13	139.03	133.90
1	E	16	THR	OG1-CB-CG2	-5.13	99.03	109.30
1	F	203	VAL	CG1-CB-CG2	-5.13	99.50	110.80
1	C	18	HIS	N-CA-CB	5.13	119.17	110.49
1	F	142	HIS	CG-ND1-CE1	5.13	118.03	109.30
1	C	172	TRP	NE1-CE2-CD2	5.13	114.07	107.40
1	D	65	ASP	CA-C-O	5.13	124.85	119.51
1	D	186	VAL	CA-CB-CG2	5.13	119.12	110.40
1	A	210	ARG	N-CA-C	5.13	116.09	108.86
1	E	175	ASN	CB-CG-ND2	-5.13	108.71	116.40
1	A	49	ALA	CA-C-N	-5.13	114.11	122.26
1	A	49	ALA	C-N-CA	-5.13	114.11	122.26
1	A	217	PHE	N-CA-CB	-5.13	102.07	110.68
1	B	24	GLU	OE1-CD-OE2	5.13	135.21	122.90
1	C	220	GLN	CA-C-N	5.12	126.24	119.84
1	C	220	GLN	C-N-CA	5.12	126.24	119.84
1	F	209	SER	O-C-N	5.12	130.09	122.97
1	A	201	ILE	CB-CG1-CD1	-5.12	103.05	113.80
1	D	16	THR	N-CA-CB	5.12	120.69	111.37
1	E	74	GLN	CG-CD-NE2	5.12	124.08	116.40
1	A	168	ASP	CB-CG-OD1	-5.12	106.63	118.40
1	D	78	ARG	CD-NE-CZ	-5.12	117.24	124.40
1	E	174	THR	CA-CB-OG1	-5.12	101.93	109.60
1	E	215	TYR	CB-CG-CD1	-5.12	113.13	120.80
1	F	170	ARG	CB-CG-CD	5.12	123.06	111.30
1	B	10	GLU	CG-CD-OE1	-5.11	106.64	118.40
1	E	125	ASN	CA-C-O	5.11	125.51	119.48
1	A	109	ASP	CA-CB-CG	-5.11	107.49	112.60
1	A	129	TYR	OH-CZ-CE2	5.11	135.24	119.90
1	B	103	TYR	CA-C-N	-5.11	113.84	121.87
1	B	103	TYR	C-N-CA	-5.11	113.84	121.87
1	A	219	LEU	CA-CB-CG	5.11	134.19	116.30
1	C	66	GLY	O-C-N	5.11	128.31	122.33
1	C	84	LYS	CA-C-O	-5.11	113.20	120.51
1	C	126	SER	N-CA-C	-5.11	101.60	109.52
1	D	100	VAL	N-CA-CB	-5.11	105.02	111.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	185	ALA	CB-CA-C	-5.11	101.68	110.16
1	C	50	SER	CA-C-O	-5.11	113.20	120.51
1	A	148	GLN	CA-C-N	5.11	131.29	121.54
1	A	148	GLN	C-N-CA	5.11	131.29	121.54
1	C	208	ASN	CB-CG-ND2	5.11	124.06	116.40
1	A	48	TRP	CH2-CZ2-CE2	-5.11	110.86	117.50
1	C	175	ASN	CB-CA-C	-5.11	104.48	111.73
1	C	82	GLY	N-CA-C	5.10	125.27	113.18
1	D	215	TYR	CA-C-N	-5.10	115.44	122.69
1	D	215	TYR	C-N-CA	-5.10	115.44	122.69
1	F	189	PRO	CB-CG-CD	-5.10	89.77	106.10
1	A	207	GLY	CA-C-O	5.10	129.44	120.57
1	D	37	ASN	N-CA-CB	-5.10	102.12	110.43
1	D	38	LEU	CB-CG-CD2	-5.10	95.40	110.70
1	D	90	TYR	CB-CG-CD1	5.10	128.45	120.80
1	F	46	ARG	CA-C-N	-5.10	116.56	122.63
1	F	46	ARG	C-N-CA	-5.10	116.56	122.63
1	A	215	TYR	CG-CD2-CE2	5.10	128.85	121.20
1	E	196	LEU	CA-C-O	-5.10	115.19	120.70
1	F	198	ASN	O-C-N	-5.10	115.81	122.59
1	A	14	PRO	CA-C-N	-5.09	113.34	121.44
1	A	14	PRO	C-N-CA	-5.09	113.34	121.44
1	E	165	PHE	CA-C-N	-5.09	115.01	122.19
1	E	165	PHE	C-N-CA	-5.09	115.01	122.19
1	F	48	TRP	CB-CA-C	-5.09	98.26	109.56
1	F	79	TRP	N-CA-CB	-5.09	102.48	111.39
1	E	6	GLY	N-CA-C	-5.09	101.12	113.18
1	B	28	PHE	CB-CA-C	5.09	118.19	109.80
1	D	204	TRP	CA-C-N	5.09	131.26	121.54
1	D	204	TRP	C-N-CA	5.09	131.26	121.54
1	C	31	THR	CA-C-N	5.08	131.07	123.24
1	C	31	THR	C-N-CA	5.08	131.07	123.24
1	E	4	LEU	CD1-CG-CD2	5.08	121.98	110.80
1	E	184	ARG	CA-CB-CG	5.08	124.27	114.10
1	E	156	MET	N-CA-CB	-5.08	102.59	110.57
1	F	195	VAL	CA-C-N	-5.08	111.83	121.54
1	F	195	VAL	C-N-CA	-5.08	111.83	121.54
1	C	199	GLN	CG-CD-NE2	-5.08	108.78	116.40
1	A	9	HIS	CA-C-N	5.08	131.24	121.54
1	A	9	HIS	C-N-CA	5.08	131.24	121.54
1	A	40	LEU	CA-C-N	-5.08	113.64	122.37
1	A	40	LEU	C-N-CA	-5.08	113.64	122.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	114	ASN	CB-CG-ND2	5.08	124.02	116.40
1	D	108	TRP	CE2-CD2-CG	5.08	113.29	107.20
1	E	19	ALA	CA-C-O	5.08	124.77	119.03
1	A	157	GLU	O-C-N	-5.08	116.74	122.68
1	C	179	LYS	O-C-N	5.08	127.92	122.34
1	D	163	VAL	N-CA-C	5.08	117.07	109.20
1	F	47	VAL	O-C-N	5.07	129.04	121.99
1	A	233	TRP	CB-CG-CD1	-5.07	119.29	126.90
1	B	31	THR	N-CA-CB	-5.07	102.73	111.55
1	F	194	ASP	CA-C-O	-5.07	113.26	120.51
1	C	69	VAL	O-C-N	5.07	127.99	122.57
1	E	153	ARG	CG-CD-NE	-5.07	100.85	112.00
1	E	166	ASP	CB-CG-OD1	-5.07	106.74	118.40
1	A	41	PHE	CA-C-O	-5.06	114.52	120.60
1	C	140	THR	N-CA-CB	-5.06	101.93	110.49
1	B	205	THR	CA-C-N	5.06	131.21	121.54
1	B	205	THR	C-N-CA	5.06	131.21	121.54
1	F	96	PRO	CA-CB-CG	5.06	114.12	104.50
1	A	160	CYS	N-CA-C	-5.06	100.02	110.80
1	B	105	PRO	CB-CG-CD	-5.06	89.91	106.10
1	E	155	SER	CA-CB-OG	-5.06	100.98	111.10
1	B	24	GLU	CG-CD-OE2	-5.06	106.77	118.40
1	B	44	ASP	CB-CG-OD1	-5.06	106.77	118.40
1	E	214	ARG	CA-C-N	5.06	132.10	123.05
1	E	214	ARG	C-N-CA	5.06	132.10	123.05
1	A	218	VAL	N-CA-C	5.05	115.76	108.48
1	B	155	SER	CA-C-O	-5.05	115.76	121.72
1	C	126	SER	N-CA-CB	5.05	120.34	111.55
1	D	160	CYS	CB-CA-C	5.05	118.50	111.63
1	E	80	SER	CA-CB-OG	-5.05	101.00	111.10
1	A	75	ASN	CA-C-N	-5.05	115.83	122.85
1	A	75	ASN	C-N-CA	-5.05	115.83	122.85
1	E	5	PHE	CD1-CG-CD2	-5.05	111.03	118.60
1	F	104	GLY	CA-C-O	-5.05	114.30	121.52
1	B	84	LYS	CA-C-O	-5.05	114.07	120.28
1	C	204	TRP	CH2-CZ2-CE2	5.05	124.06	117.50
1	D	24	GLU	O-C-N	-5.05	116.46	123.12
1	B	152	TYR	CA-C-O	-5.04	115.67	121.47
1	A	115	LYS	N-CA-C	-5.04	101.53	109.25
1	A	216	VAL	N-CA-CB	-5.04	102.49	111.92
1	E	227	ILE	N-CA-C	5.04	115.71	107.24
1	F	81	SER	CA-C-N	-5.04	111.53	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	81	SER	C-N-CA	-5.04	111.53	121.41
1	E	165	PHE	N-CA-CB	-5.04	102.63	110.55
1	C	179	LYS	N-CA-CB	-5.04	104.20	110.90
1	D	139	GLN	CG-CD-OE1	5.04	130.88	120.80
1	A	231	ALA	CB-CA-C	-5.04	100.40	110.42
1	E	77	ILE	CA-C-N	5.04	128.66	120.60
1	E	77	ILE	C-N-CA	5.04	128.66	120.60
1	E	108	TRP	CA-CB-CG	5.03	123.16	113.60
1	B	68	LEU	CA-C-O	5.03	126.80	121.16
1	C	145	GLN	CG-CD-NE2	5.03	123.95	116.40
1	E	109	ASP	N-CA-CB	5.03	120.45	111.69
1	B	219	LEU	N-CA-CB	5.03	118.82	110.52
1	C	192	ARG	CA-C-O	-5.03	114.95	120.43
1	E	48	TRP	CZ3-CH2-CZ2	-5.03	114.97	121.50
1	F	144	THR	CB-CA-C	5.03	120.42	110.42
1	A	181	THR	N-CA-C	-5.03	107.54	113.97
1	F	40	LEU	CB-CA-C	-5.03	102.65	110.74
1	E	204	TRP	CA-C-N	5.02	131.95	123.01
1	E	204	TRP	C-N-CA	5.02	131.95	123.01
1	F	165	PHE	CD1-CE1-CZ	-5.02	110.96	120.00
1	B	153	ARG	NH1-CZ-NH2	5.02	125.83	119.30
1	D	176	THR	OG1-CB-CG2	5.02	119.34	109.30
1	C	122	ASN	O-C-N	-5.02	115.92	122.59
1	E	233	TRP	CD1-NE1-CE2	-5.02	99.87	108.90
1	A	150	SER	CA-CB-OG	-5.02	101.07	111.10
1	A	224	ASN	N-CA-C	5.02	117.67	109.59
1	C	44	ASP	CB-CG-OD2	-5.01	106.87	118.40
1	C	70	ILE	N-CA-CB	5.01	118.22	111.90
1	C	120	VAL	CA-C-N	-5.01	114.78	122.60
1	C	120	VAL	C-N-CA	-5.01	114.78	122.60
1	C	174	THR	CB-CA-C	5.01	119.11	110.79
1	E	75	ASN	CA-CB-CG	-5.01	107.58	112.60
1	D	13	HIS	CE1-NE2-CD2	-5.01	103.99	109.00
1	D	194	ASP	CB-CG-OD2	5.01	129.93	118.40
1	E	46	ARG	NE-CZ-NH1	-5.01	116.49	121.50
1	B	98	ARG	NE-CZ-NH1	-5.01	116.49	121.50
1	C	166	ASP	CB-CG-OD1	-5.01	106.87	118.40
1	D	105	PRO	CB-CG-CD	-5.01	90.07	106.10
1	F	212	ALA	N-CA-CB	-5.01	101.89	110.16
1	B	169	ASP	CB-CG-OD1	-5.01	106.88	118.40
1	C	175	ASN	N-CA-C	-5.01	104.98	111.74
1	F	40	LEU	CA-C-N	-5.01	115.81	122.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	40	LEU	C-N-CA	-5.01	115.81	122.72
1	B	194	ASP	CB-CG-OD1	-5.01	106.88	118.40
1	D	234	THR	CA-C-O	-5.01	115.92	121.33
1	F	219	LEU	O-C-N	5.01	129.29	122.48
1	E	90	TYR	OH-CZ-CE2	5.01	134.92	119.90
1	E	196	LEU	CB-CA-C	-5.01	99.81	109.37
1	E	149	LEU	CA-CB-CG	-5.00	98.78	116.30
1	A	111	GLY	CA-C-O	-5.00	111.86	120.57
1	B	88	GLY	N-CA-C	-5.00	101.32	113.18
1	B	172	TRP	CB-CG-CD2	5.00	133.81	126.80
1	E	185	ALA	CA-C-N	-5.00	114.39	122.25
1	E	185	ALA	C-N-CA	-5.00	114.39	122.25
1	E	198	ASN	CB-CA-C	-5.00	98.97	110.18
1	F	103	TYR	CA-C-N	5.00	129.73	121.87
1	F	103	TYR	C-N-CA	5.00	129.73	121.87
1	F	150	SER	CA-C-N	-5.00	114.51	119.56
1	F	150	SER	C-N-CA	-5.00	114.51	119.56

All (6) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	9	HIS	CA
1	A	87	ILE	CA
1	B	60	ALA	CA
1	B	168	ASP	CA
1	F	60	ALA	CA
1	F	195	VAL	CA

All (342) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	103	TYR	Mainchain
1	A	104	GLY	Mainchain,Peptide
1	A	108	TRP	Mainchain
1	A	111	GLY	Mainchain
1	A	119	VAL	Mainchain
1	A	128	LEU	Mainchain
1	A	13	HIS	Mainchain
1	A	136	ASN	Mainchain
1	A	137	HIS	Mainchain,Peptide
1	A	138	PRO	Mainchain
1	A	139	GLN	Mainchain

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Mol	Chain	Res	Type	Group
1	A	146	SER	Mainchain
1	A	157	GLU	Mainchain
1	A	158	THR	Mainchain
1	A	166	ASP	Mainchain
1	A	170	ARG	Mainchain
1	A	171	VAL	Mainchain
1	A	173	SER	Mainchain
1	A	181	THR	Mainchain
1	A	185	ALA	Mainchain
1	A	188	GLN	Mainchain
1	A	189	PRO	Mainchain
1	A	19	ALA	Mainchain
1	A	192	ARG	Mainchain
1	A	199	GLN	Mainchain
1	A	2	ASN	Peptide
1	A	214	ARG	Mainchain
1	A	215	TYR	Mainchain
1	A	219	LEU	Mainchain
1	A	220	GLN	Mainchain
1	A	221	PRO	Mainchain
1	A	222	ASP	Mainchain
1	A	228	TYR	Mainchain
1	A	231	ALA	Mainchain
1	A	25	LEU	Mainchain
1	A	30	PHE	Mainchain
1	A	34	SER	Mainchain
1	A	37	ASN	Mainchain
1	A	38	LEU	Mainchain
1	A	44	ASP	Mainchain
1	A	49	ALA	Mainchain
1	A	5	PHE	Mainchain
1	A	53	ALA	Mainchain
1	A	55	ALA	Mainchain
1	A	60	ALA	Mainchain
1	A	62	LEU	Mainchain
1	A	63	GLN	Mainchain
1	A	68	LEU	Mainchain
1	A	72	THR	Mainchain,Peptide
1	A	75	ASN	Mainchain
1	A	76	THR	Mainchain
1	A	78	ARG	Mainchain
1	A	81	SER	Mainchain

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Mol	Chain	Res	Type	Group
1	A	87	ILE	Mainchain
1	A	89	ASN	Mainchain
1	A	90	TYR	Mainchain
1	A	98	ARG	Mainchain
1	B	104	GLY	Peptide
1	B	105	PRO	Mainchain
1	B	107	LEU	Mainchain,Peptide
1	B	108	TRP	Mainchain,Peptide
1	B	11	GLY	Mainchain,Peptide
1	B	12	SER	Mainchain
1	B	127	ILE	Mainchain
1	B	129	TYR	Mainchain
1	B	13	HIS	Mainchain,Peptide
1	B	130	SER	Mainchain
1	B	131	THR	Mainchain
1	B	136	ASN	Mainchain
1	B	137	HIS	Mainchain,Peptide
1	B	143	ALA	Mainchain
1	B	150	SER	Mainchain
1	B	151	PRO	Mainchain
1	B	156	MET	Mainchain
1	B	158	THR	Mainchain
1	B	159	ASP	Mainchain
1	B	162	LEU	Mainchain
1	B	164	LEU	Mainchain
1	B	175	ASN	Mainchain
1	B	18	HIS	Peptide
1	B	189	PRO	Mainchain
1	B	194	ASP	Mainchain
1	B	195	VAL	Mainchain
1	B	198	ASN	Mainchain
1	B	20	ALA	Mainchain
1	B	209	SER	Mainchain
1	B	21	GLN	Peptide
1	B	210	ARG	Mainchain
1	B	214	ARG	Mainchain
1	B	222	ASP	Mainchain
1	B	225	LEU	Mainchain
1	B	226	ALA	Mainchain
1	B	228	TYR	Peptide
1	B	229	GLY	Mainchain
1	B	234	THR	Mainchain

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Mol	Chain	Res	Type	Group
1	B	24	GLU	Mainchain
1	B	27	SER	Mainchain
1	B	30	PHE	Mainchain
1	B	31	THR	Mainchain
1	B	32	MET	Mainchain
1	B	41	PHE	Mainchain
1	B	42	ASP	Mainchain
1	B	46	ARG	Mainchain
1	B	48	TRP	Mainchain
1	B	53	ALA	Peptide
1	B	55	ALA	Mainchain
1	B	56	THR	Mainchain
1	B	57	GLY	Mainchain
1	B	6	GLY	Peptide
1	B	60	ALA	Mainchain
1	B	62	LEU	Mainchain
1	B	7	LEU	Mainchain
1	B	70	ILE	Peptide
1	B	72	THR	Mainchain
1	B	73	ALA	Mainchain
1	B	76	THR	Peptide
1	B	86	SER	Mainchain
1	B	88	GLY	Mainchain
1	B	90	TYR	Mainchain,Sidechain
1	B	91	VAL	Mainchain
1	B	92	LEU	Mainchain
1	B	94	LEU	Mainchain
1	B	95	GLN	Mainchain
1	B	97	ASP	Mainchain
1	C	102	ILE	Mainchain
1	C	104	GLY	Mainchain,Peptide
1	C	111	GLY	Mainchain
1	C	117	SER	Peptide
1	C	12	SER	Mainchain
1	C	124	GLY	Mainchain,Peptide
1	C	126	SER	Mainchain
1	C	128	LEU	Mainchain
1	C	13	HIS	Mainchain,Peptide
1	C	132	GLN	Mainchain
1	C	137	HIS	Mainchain,Peptide
1	C	138	PRO	Mainchain
1	C	142	HIS	Mainchain

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Mol	Chain	Res	Type	Group
1	C	145	GLN	Mainchain
1	C	154	LEU	Mainchain
1	C	155	SER	Mainchain
1	C	156	MET	Mainchain
1	C	157	GLU	Mainchain
1	C	16	THR	Mainchain
1	C	166	ASP	Mainchain
1	C	167	ARG	Mainchain
1	C	168	ASP	Mainchain,Sidechain
1	C	175	ASN	Peptide
1	C	180	GLY	Mainchain
1	C	189	PRO	Mainchain
1	C	193	MET	Mainchain
1	C	195	VAL	Mainchain
1	C	199	GLN	Mainchain
1	C	2	ASN	Mainchain
1	C	200	ASN	Mainchain
1	C	201	ILE	Mainchain
1	C	206	SER	Peptide
1	C	207	GLY	Mainchain
1	C	21	GLN	Mainchain
1	C	215	TYR	Mainchain
1	C	216	VAL	Mainchain
1	C	22	SER	Mainchain
1	C	227	ILE	Mainchain
1	C	229	GLY	Mainchain
1	C	230	GLY	Mainchain,Peptide
1	C	231	ALA	Mainchain
1	C	233	TRP	Mainchain
1	C	234	THR	Mainchain
1	C	24	GLU	Mainchain
1	C	26	SER	Mainchain
1	C	30	PHE	Sidechain
1	C	38	LEU	Mainchain
1	C	46	ARG	Mainchain
1	C	48	TRP	Mainchain
1	C	49	ALA	Mainchain
1	C	51	ASN	Mainchain
1	C	60	ALA	Mainchain
1	C	65	ASP	Mainchain
1	C	7	LEU	Mainchain
1	C	73	ALA	Mainchain

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Mol	Chain	Res	Type	Group
1	C	74	GLN	Mainchain
1	C	76	THR	Mainchain
1	C	8	SER	Mainchain,Peptide
1	C	90	TYR	Mainchain
1	D	100	VAL	Mainchain
1	D	104	GLY	Peptide
1	D	105	PRO	Mainchain
1	D	124	GLY	Mainchain
1	D	129	TYR	Mainchain
1	D	13	HIS	Mainchain,Peptide
1	D	130	SER	Mainchain
1	D	137	HIS	Mainchain,Peptide
1	D	141	LEU	Mainchain
1	D	143	ALA	Mainchain
1	D	146	SER	Mainchain
1	D	148	GLN	Mainchain
1	D	150	SER	Peptide
1	D	158	THR	Mainchain
1	D	16	THR	Mainchain
1	D	167	ARG	Mainchain,Sidechain
1	D	187	LEU	Mainchain
1	D	192	ARG	Mainchain
1	D	193	MET	Mainchain
1	D	20	ALA	Mainchain
1	D	206	SER	Mainchain
1	D	209	SER	Mainchain
1	D	21	GLN	Mainchain
1	D	210	ARG	Mainchain
1	D	215	TYR	Mainchain
1	D	217	PHE	Mainchain
1	D	227	ILE	Mainchain
1	D	228	TYR	Mainchain
1	D	229	GLY	Mainchain,Peptide
1	D	230	GLY	Mainchain
1	D	24	GLU	Mainchain
1	D	33	GLN	Mainchain
1	D	34	SER	Mainchain
1	D	35	ASP	Mainchain
1	D	45	VAL	Mainchain
1	D	5	PHE	Mainchain
1	D	56	THR	Mainchain
1	D	6	GLY	Mainchain,Peptide

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Mol	Chain	Res	Type	Group
1	D	60	ALA	Mainchain,Peptide
1	D	61	VAL	Mainchain
1	D	64	SER	Mainchain
1	D	69	VAL	Mainchain
1	D	81	SER	Mainchain
1	D	86	SER	Mainchain
1	D	89	ASN	Mainchain
1	E	104	GLY	Mainchain,Peptide
1	E	11	GLY	Mainchain
1	E	110	SER	Mainchain
1	E	128	LEU	Mainchain,Peptide
1	E	13	HIS	Mainchain,Peptide
1	E	130	SER	Mainchain
1	E	136	ASN	Mainchain
1	E	137	HIS	Mainchain,Peptide
1	E	138	PRO	Mainchain
1	E	147	LEU	Mainchain
1	E	151	PRO	Mainchain
1	E	158	THR	Mainchain
1	E	162	LEU	Mainchain
1	E	165	PHE	Mainchain
1	E	173	SER	Mainchain
1	E	177	ALA	Mainchain
1	E	188	GLN	Mainchain
1	E	206	SER	Mainchain
1	E	22	SER	Mainchain
1	E	227	ILE	Mainchain
1	E	231	ALA	Mainchain
1	E	25	LEU	Mainchain
1	E	30	PHE	Mainchain
1	E	33	GLN	Mainchain
1	E	34	SER	Mainchain
1	E	38	LEU	Mainchain
1	E	63	GLN	Mainchain
1	E	66	GLY	Mainchain
1	E	70	ILE	Mainchain
1	E	78	ARG	Mainchain
1	E	86	SER	Mainchain
1	E	9	HIS	Peptide
1	E	90	TYR	Mainchain
1	E	91	VAL	Mainchain
1	E	97	ASP	Mainchain

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Mol	Chain	Res	Type	Group
1	F	103	TYR	Mainchain
1	F	105	PRO	Mainchain
1	F	107	LEU	Mainchain
1	F	124	GLY	Peptide
1	F	128	LEU	Mainchain
1	F	13	HIS	Mainchain,Peptide
1	F	130	SER	Peptide
1	F	137	HIS	Mainchain,Peptide
1	F	14	PRO	Mainchain
1	F	140	THR	Mainchain
1	F	141	LEU	Mainchain
1	F	146	SER	Mainchain
1	F	149	LEU	Mainchain
1	F	15	GLN	Mainchain
1	F	150	SER	Mainchain
1	F	152	TYR	Mainchain
1	F	158	THR	Mainchain
1	F	184	ARG	Mainchain
1	F	185	ALA	Mainchain
1	F	189	PRO	Mainchain
1	F	193	MET	Mainchain,Peptide
1	F	195	VAL	Mainchain
1	F	197	THR	Mainchain
1	F	205	THR	Mainchain
1	F	208	ASN	Mainchain
1	F	210	ARG	Mainchain
1	F	214	ARG	Mainchain
1	F	219	LEU	Mainchain
1	F	222	ASP	Mainchain
1	F	23	LEU	Mainchain
1	F	230	GLY	Mainchain
1	F	231	ALA	Peptide
1	F	45	VAL	Mainchain
1	F	52	THR	Mainchain
1	F	54	GLY	Mainchain
1	F	55	ALA	Mainchain
1	F	56	THR	Mainchain
1	F	60	ALA	Mainchain
1	F	63	GLN	Mainchain
1	F	76	THR	Mainchain,Peptide
1	F	78	ARG	Sidechain
1	F	83	THR	Mainchain

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Mol	Chain	Res	Type	Group
1	F	85	GLY	Peptide
1	F	86	SER	Mainchain
1	F	89	ASN	Mainchain
1	F	9	HIS	Mainchain,Peptide
1	F	91	VAL	Mainchain
1	F	95	GLN	Mainchain

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1778	0	1709	286	0
1	B	1694	0	1618	274	0
1	C	1772	0	1706	283	0
1	D	1702	0	1624	324	0
1	E	1759	0	1700	321	0
1	F	1659	0	1591	311	0
2	A	19	0	0	1	0
2	B	15	0	0	0	0
2	C	6	0	0	0	0
2	D	8	0	0	0	0
2	E	8	0	0	0	0
2	F	11	0	0	0	0
All	All	10431	0	9948	1721	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 86.

All (1721) 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:D:77:ILE:CD1	1:D:77:ILE:CG1	1.80	1.57
1:E:131:THR:CA	1:E:131:THR:C	1.75	1.53
1:E:136:ASN:CA	1:E:136:ASN:CB	1.88	1.49
1:A:131:THR:OG1	1:A:131:THR:CB	1.64	1.46
1:D:64:SER:OG	1:D:64:SER:CB	1.67	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:158:THR:CB	1:F:151:PRO:HG2	1.55	1.32
1:C:72:THR:CG2	1:C:76:THR:H	1.49	1.25
1:C:73:ALA:CA	1:F:189:PRO:HG2	1.70	1.21
1:C:73:ALA:C	1:F:189:PRO:HG2	1.68	1.18
1:E:158:THR:CB	1:F:151:PRO:CG	2.22	1.16
1:B:37:ASN:HB2	1:B:53:ALA:HB2	1.23	1.16
1:F:159:ASP:O	1:F:160:CYS:HB3	1.41	1.16
1:B:151:PRO:CD	1:D:34:SER:HB2	1.76	1.16
1:D:7:LEU:O	1:D:9:HIS:N	1.80	1.15
1:B:72:THR:HG22	1:B:74:GLN:HB2	1.17	1.14
1:E:87:ILE:HG23	1:E:88:GLY:H	1.03	1.12
1:B:3:ILE:HG22	1:B:93:VAL:HB	1.30	1.11
1:E:6:GLY:HA2	1:E:62:LEU:HD23	1.27	1.11
1:E:131:THR:C	1:E:131:THR:CB	2.24	1.11
1:E:26:SER:O	1:E:27:SER:HB2	1.46	1.10
1:A:72:THR:HG22	1:A:76:THR:H	0.99	1.10
1:D:217:PHE:CE2	1:D:225:LEU:HD22	1.86	1.10
1:C:7:LEU:HD11	1:C:61:VAL:HG11	1.29	1.09
1:D:16:THR:HG22	1:D:61:VAL:H	1.07	1.09
1:A:131:THR:O	1:A:131:THR:HG22	1.42	1.08
1:C:72:THR:HG21	1:C:76:THR:H	1.09	1.07
1:C:26:SER:O	1:C:27:SER:HB3	1.43	1.06
1:B:197:THR:HG21	1:B:201:ILE:HB	1.08	1.06
1:F:7:LEU:O	1:F:9:HIS:N	1.88	1.06
1:C:74:GLN:N	1:F:189:PRO:HG2	1.71	1.05
1:E:26:SER:OG	1:F:33:GLN:HG3	1.54	1.05
1:E:158:THR:N	1:F:151:PRO:HG3	1.72	1.04
1:F:126:SER:O	1:F:147:LEU:HD11	1.54	1.04
1:A:32:MET:HE2	1:A:60:ALA:HB2	1.36	1.04
1:E:4:LEU:HD12	1:E:5:PHE:N	1.69	1.04
1:E:64:SER:O	1:E:65:ASP:HB3	1.55	1.04
1:D:77:ILE:O	1:D:77:ILE:HG22	1.56	1.03
1:F:161:ASN:ND2	1:F:176:THR:H	1.54	1.03
1:C:74:GLN:HG3	1:F:189:PRO:HB2	1.40	1.03
1:B:151:PRO:HD2	1:D:34:SER:HB2	1.04	1.02
1:B:217:PHE:CE1	1:B:225:LEU:HB3	1.94	1.02
1:E:158:THR:CA	1:F:151:PRO:HG3	1.89	1.02
1:E:158:THR:HB	1:F:151:PRO:HG2	1.38	1.01
1:A:12:SER:HB3	1:A:221:PRO:HD2	1.41	1.01
1:B:154:LEU:HG	1:B:225:LEU:HD11	1.40	1.01
1:B:222:ASP:HB2	1:B:224:ASN:OD1	1.61	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:97:ASP:OD1	1:E:99:THR:HB	1.59	1.00
1:A:12:SER:HB3	1:A:221:PRO:CD	1.89	1.00
1:E:9:HIS:HB2	1:E:10:GLU:HG3	1.43	1.00
1:B:68:LEU:HD13	1:B:92:LEU:HD13	1.44	1.00
1:B:197:THR:HG21	1:B:201:ILE:CB	1.91	0.99
1:D:127:ILE:HG22	1:D:147:LEU:HD21	1.44	0.99
1:B:217:PHE:HE1	1:B:225:LEU:HB3	1.22	0.98
1:A:72:THR:HG22	1:A:76:THR:N	1.78	0.98
1:E:6:GLY:CA	1:E:62:LEU:HD23	1.94	0.98
1:C:97:ASP:HB3	1:C:136:ASN:HD22	1.27	0.97
1:E:127:ILE:HG23	1:E:127:ILE:O	1.64	0.97
1:D:64:SER:OG	1:D:64:SER:CA	2.10	0.97
1:C:4:LEU:HD22	1:C:17:LEU:HD23	1.45	0.96
1:B:146:SER:O	1:B:147:LEU:HB2	1.63	0.96
1:D:83:THR:O	1:D:84:LYS:HB3	1.62	0.96
1:A:72:THR:HG23	1:A:74:GLN:H	1.24	0.96
1:D:220:GLN:NE2	1:D:228:TYR:OH	1.98	0.95
1:A:62:LEU:HD21	1:A:90:TYR:HB2	1.47	0.95
1:B:151:PRO:HD2	1:D:34:SER:CB	1.95	0.95
1:E:158:THR:O	1:E:160:CYS:N	1.99	0.95
1:C:73:ALA:CA	1:F:189:PRO:CG	2.46	0.94
1:E:87:ILE:HG23	1:E:88:GLY:N	1.68	0.94
1:F:230:GLY:O	1:F:231:ALA:HB2	1.66	0.94
1:D:5:PHE:CZ	1:D:220:GLN:HG2	2.03	0.94
1:A:151:PRO:HD2	1:A:152:TYR:H	1.30	0.93
1:B:28:PHE:CE2	1:B:98:ARG:HG3	2.03	0.93
1:C:73:ALA:O	1:C:75:ASN:N	2.00	0.93
1:C:72:THR:O	1:C:73:ALA:HB3	1.67	0.93
1:D:184:ARG:HH22	1:D:200:ASN:HD21	0.94	0.93
1:B:154:LEU:CG	1:B:225:LEU:HD11	1.97	0.93
1:F:100:VAL:HG23	1:F:235:THR:HG21	1.50	0.93
1:D:178:GLY:O	1:D:180:GLY:N	2.00	0.92
1:F:131:THR:O	1:F:131:THR:HG22	1.70	0.92
1:A:110:SER:HB2	1:A:112:THR:HG23	1.50	0.92
1:E:22:SER:HB3	1:E:31:THR:HG22	1.51	0.92
1:A:77:ILE:O	1:A:77:ILE:HG22	1.65	0.92
1:C:72:THR:CG2	1:C:76:THR:N	2.32	0.92
1:D:16:THR:CG2	1:D:61:VAL:H	1.82	0.92
1:F:224:ASN:O	1:F:225:LEU:HD12	1.68	0.92
1:A:179:LYS:HB3	1:A:179:LYS:NZ	1.83	0.92
1:D:217:PHE:HE2	1:D:225:LEU:HD22	1.29	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:200:ASN:H	1:A:200:ASN:HD22	1.10	0.92
1:E:158:THR:CA	1:F:151:PRO:CG	2.47	0.92
1:C:146:SER:OG	1:C:147:LEU:N	1.84	0.91
1:F:25:LEU:HB2	1:F:94:LEU:HD21	1.52	0.91
1:C:18:HIS:HB2	1:C:21:GLN:NE2	1.83	0.91
1:C:72:THR:HG21	1:C:76:THR:N	1.84	0.91
1:D:129:TYR:HD1	1:D:130:SER:H	1.19	0.91
1:E:32:MET:HE2	1:E:60:ALA:HB2	1.50	0.91
1:E:105:PRO:HD2	1:E:210:ARG:NH2	1.86	0.90
1:A:86:SER:O	1:A:87:ILE:HG13	1.71	0.90
1:A:108:TRP:HB2	1:A:208:ASN:ND2	1.86	0.90
1:D:131:THR:HG21	1:D:214:ARG:CZ	2.01	0.90
1:C:176:THR:O	1:C:177:ALA:HB3	1.70	0.90
1:F:2:ASN:HA	1:F:23:LEU:HD22	1.54	0.90
1:A:127:ILE:HG23	1:A:127:ILE:O	1.69	0.90
1:A:22:SER:HB3	1:A:31:THR:HG22	1.55	0.89
1:C:49:ALA:O	1:C:50:SER:C	2.13	0.89
1:B:47:VAL:HG12	1:B:47:VAL:O	1.70	0.89
1:C:7:LEU:HD11	1:C:61:VAL:CG1	2.01	0.89
1:C:29:ARG:HH21	1:C:31:THR:CG2	1.86	0.89
1:E:22:SER:CB	1:E:31:THR:HG22	2.03	0.89
1:D:217:PHE:HD2	1:D:217:PHE:O	1.55	0.89
1:A:56:THR:O	1:A:73:ALA:HB2	1.72	0.89
1:F:129:TYR:HD1	1:F:130:SER:N	1.68	0.89
1:A:131:THR:OG1	1:A:131:THR:CG2	2.21	0.89
1:B:188:GLN:HG3	1:B:189:PRO:HD3	1.53	0.88
1:D:37:ASN:HD22	1:D:38:LEU:H	1.21	0.88
1:D:3:ILE:HG22	1:D:93:VAL:HB	1.54	0.88
1:E:26:SER:O	1:E:27:SER:CB	2.13	0.88
1:E:101:THR:OG1	1:E:234:THR:HB	1.72	0.88
1:D:7:LEU:O	1:D:8:SER:C	2.14	0.88
1:D:184:ARG:HH22	1:D:200:ASN:ND2	1.70	0.88
1:D:176:THR:O	1:D:177:ALA:HB2	1.74	0.88
1:D:100:VAL:HB	1:D:235:THR:OG1	1.74	0.87
1:C:73:ALA:HA	1:F:189:PRO:CG	2.02	0.87
1:D:161:ASN:HA	1:D:176:THR:CG2	2.04	0.87
1:C:97:ASP:HB3	1:C:136:ASN:ND2	1.88	0.87
1:C:217:PHE:HA	1:C:227:ILE:CG2	2.03	0.87
1:D:161:ASN:HA	1:D:176:THR:HG22	1.57	0.87
1:D:150:SER:HB3	1:D:151:PRO:CD	2.05	0.86
1:A:179:LYS:HB3	1:A:179:LYS:HZ2	1.39	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:197:THR:OG1	1:B:201:ILE:HD12	1.73	0.86
1:C:140:THR:OG1	1:C:141:LEU:N	2.05	0.86
1:D:25:LEU:O	1:D:28:PHE:HB2	1.75	0.86
1:F:87:ILE:HG23	1:F:88:GLY:N	1.87	0.86
1:F:159:ASP:O	1:F:160:CYS:CB	2.19	0.86
1:E:12:SER:HB3	1:E:221:PRO:HD2	1.57	0.86
1:A:215:TYR:HD2	1:A:215:TYR:N	1.74	0.86
1:B:217:PHE:HZ	1:B:225:LEU:HD13	1.39	0.86
1:E:4:LEU:HD12	1:E:5:PHE:H	1.37	0.86
1:B:143:ALA:O	1:B:145:GLN:N	2.09	0.86
1:D:176:THR:O	1:D:177:ALA:CB	2.09	0.86
1:E:129:TYR:O	1:E:130:SER:HB2	1.74	0.86
1:E:87:ILE:CG2	1:E:88:GLY:H	1.88	0.85
1:C:72:THR:HG22	1:C:76:THR:H	1.41	0.85
1:E:101:THR:HG22	1:E:103:TYR:CE1	2.10	0.85
1:B:22:SER:HA	1:B:31:THR:HA	1.59	0.85
1:B:37:ASN:ND2	1:B:52:THR:H	1.74	0.85
1:B:90:TYR:CD2	1:B:104:GLY:HA3	2.12	0.85
1:C:56:THR:HG22	1:C:57:GLY:H	1.42	0.85
1:D:208:ASN:OD1	1:D:208:ASN:N	2.09	0.85
1:C:74:GLN:CG	1:F:189:PRO:HB2	2.05	0.84
1:C:90:TYR:CD2	1:C:104:GLY:HA3	2.12	0.84
1:C:110:SER:OG	1:C:225:LEU:HB2	1.77	0.84
1:C:205:THR:O	1:C:205:THR:HG23	1.74	0.84
1:F:16:THR:HG22	1:F:17:LEU:N	1.91	0.84
1:B:3:ILE:HG22	1:B:93:VAL:CB	2.08	0.84
1:C:73:ALA:HA	1:F:189:PRO:HG2	1.58	0.84
1:A:119:VAL:O	1:A:120:VAL:HB	1.77	0.84
1:B:18:HIS:HB2	1:B:21:GLN:OE1	1.77	0.84
1:E:92:LEU:HG	1:E:100:VAL:CG1	2.07	0.84
1:E:72:THR:HG22	1:E:76:THR:H	1.42	0.84
1:F:30:PHE:HZ	1:F:38:LEU:HD21	1.43	0.84
1:A:129:TYR:HD2	1:A:130:SER:N	1.76	0.84
1:F:156:MET:HE3	1:F:161:ASN:O	1.78	0.84
1:B:197:THR:HG23	1:B:197:THR:O	1.78	0.83
1:E:127:ILE:CG2	1:E:217:PHE:HB3	2.07	0.83
1:B:35:ASP:O	1:B:36:CYS:HB2	1.77	0.83
1:A:129:TYR:CD2	1:A:130:SER:N	2.46	0.83
1:D:39:VAL:HG12	1:D:40:LEU:N	1.92	0.83
1:B:189:PRO:HG3	1:E:74:GLN:HG2	1.60	0.83
1:A:195:VAL:CG1	1:A:204:TRP:HB3	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:161:ASN:ND2	1:A:176:THR:H	1.77	0.83
1:B:157:GLU:HG3	1:B:161:ASN:HB3	1.58	0.83
1:C:67:LEU:HD21	1:C:82:GLY:HA2	1.60	0.83
1:D:150:SER:HB3	1:D:151:PRO:HD3	1.59	0.83
1:C:2:ASN:OD1	1:C:3:ILE:HG22	1.76	0.83
1:A:129:TYR:HD2	1:A:129:TYR:C	1.87	0.82
1:D:166:ASP:O	1:D:167:ARG:O	1.97	0.82
1:B:188:GLN:CG	1:B:189:PRO:HD3	2.10	0.82
1:B:163:VAL:HG21	1:B:165:PHE:CE1	2.13	0.82
1:F:74:GLN:O	1:F:76:THR:HG22	1.79	0.82
1:A:56:THR:HG22	1:A:57:GLY:H	1.44	0.82
1:D:184:ARG:NH2	1:D:200:ASN:HD21	1.77	0.82
1:D:217:PHE:CZ	1:D:225:LEU:HD13	2.15	0.82
1:D:63:GLN:NE2	1:D:69:VAL:HG22	1.95	0.81
1:F:195:VAL:HG13	1:F:204:TRP:HB3	1.61	0.81
1:A:105:PRO:HB2	1:A:210:ARG:HH22	1.45	0.81
1:E:72:THR:HB	1:E:76:THR:HG22	1.62	0.81
1:A:22:SER:HB3	1:A:31:THR:CG2	2.09	0.81
1:B:67:LEU:HD11	1:B:84:LYS:HG3	1.60	0.81
1:C:18:HIS:HB2	1:C:21:GLN:HE21	1.43	0.81
1:D:63:GLN:HE22	1:D:69:VAL:CG2	1.92	0.81
1:E:32:MET:CE	1:E:60:ALA:HB2	2.08	0.81
1:C:74:GLN:N	1:F:189:PRO:CG	2.43	0.81
1:D:229:GLY:C	1:D:230:GLY:O	2.22	0.81
1:D:127:ILE:CG2	1:D:147:LEU:HD21	2.10	0.81
1:E:150:SER:HB3	1:E:151:PRO:HD3	1.63	0.81
1:E:17:LEU:HB2	1:E:60:ALA:HB3	1.59	0.81
1:F:217:PHE:C	1:F:217:PHE:CD2	2.56	0.81
1:A:129:TYR:CD2	1:A:129:TYR:C	2.57	0.81
1:E:72:THR:CB	1:E:76:THR:HG22	2.11	0.81
1:D:16:THR:HG22	1:D:61:VAL:N	1.92	0.80
1:F:41:PHE:CE2	1:F:46:ARG:HG2	2.16	0.80
1:D:63:GLN:HB2	1:D:67:LEU:O	1.81	0.80
1:D:16:THR:HG21	1:D:61:VAL:HG22	1.63	0.80
1:A:131:THR:O	1:A:131:THR:CG2	2.28	0.80
1:B:129:TYR:O	1:B:130:SER:HB2	1.81	0.80
1:E:61:VAL:HG22	1:E:62:LEU:N	1.96	0.80
1:E:129:TYR:O	1:E:130:SER:CB	2.28	0.80
1:A:22:SER:HA	1:A:31:THR:HA	1.61	0.80
1:B:162:LEU:HD13	1:B:193:MET:HE3	1.62	0.80
1:C:61:VAL:HG12	1:C:62:LEU:N	1.96	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:152:TYR:CE2	1:C:223:ARG:HG3	2.16	0.80
1:B:217:PHE:CZ	1:B:225:LEU:HD13	2.17	0.80
1:D:142:HIS:O	1:D:143:ALA:HB3	1.81	0.80
1:D:158:THR:O	1:D:160:CYS:N	2.14	0.80
1:E:115:LYS:H	1:E:115:LYS:HD2	1.46	0.80
1:A:200:ASN:HD22	1:A:200:ASN:N	1.75	0.79
1:C:127:ILE:CG2	1:C:217:PHE:HB3	2.11	0.79
1:F:77:ILE:HG22	1:F:77:ILE:O	1.78	0.79
1:A:157:GLU:HG3	1:C:26:SER:OG	1.81	0.79
1:C:89:ASN:H	1:C:89:ASN:ND2	1.80	0.79
1:D:142:HIS:O	1:D:143:ALA:CB	2.26	0.79
1:C:29:ARG:HH21	1:C:31:THR:HG21	1.47	0.79
1:A:37:ASN:HD21	1:A:51:ASN:H	1.30	0.79
1:E:158:THR:H	1:F:151:PRO:HG3	1.47	0.79
1:B:197:THR:CG2	1:B:201:ILE:HB	2.03	0.78
1:D:70:ILE:HG22	1:D:70:ILE:O	1.82	0.78
1:E:72:THR:HB	1:E:76:THR:O	1.84	0.78
1:A:75:ASN:ND2	1:D:196:LEU:HD11	1.98	0.78
1:B:109:ASP:HB2	1:B:111:GLY:H	1.49	0.78
1:D:217:PHE:HD2	1:D:217:PHE:C	1.90	0.78
1:D:140:THR:OG1	1:D:141:LEU:N	2.16	0.78
1:D:217:PHE:HZ	1:D:225:LEU:HD13	1.47	0.78
1:E:69:VAL:HG21	1:E:71:LEU:HG	1.65	0.78
1:D:39:VAL:HG12	1:D:40:LEU:H	1.49	0.78
1:E:158:THR:N	1:F:151:PRO:CG	2.47	0.78
1:B:55:ALA:HB1	1:B:56:THR:HG23	1.64	0.78
1:E:192:ARG:NH2	1:E:194:ASP:OD2	2.17	0.78
1:B:151:PRO:CD	1:D:34:SER:CB	2.58	0.77
1:C:97:ASP:CB	1:C:136:ASN:HD22	1.97	0.77
1:C:176:THR:O	1:C:177:ALA:CB	2.31	0.77
1:F:197:THR:HG21	1:F:201:ILE:HD12	1.64	0.77
1:D:77:ILE:O	1:D:77:ILE:CG2	2.32	0.77
1:C:146:SER:HG	1:C:147:LEU:H	1.33	0.77
1:F:176:THR:HG21	1:F:203:VAL:HG13	1.65	0.77
1:F:197:THR:HB	1:F:201:ILE:HB	1.66	0.77
1:A:112:THR:O	1:A:223:ARG:NH1	2.18	0.77
1:C:74:GLN:HA	1:F:189:PRO:HD2	1.67	0.77
1:A:156:MET:HA	1:A:156:MET:HE3	1.67	0.77
1:C:167:ARG:O	1:C:169:ASP:N	2.17	0.77
1:A:47:VAL:O	1:A:47:VAL:HG12	1.83	0.77
1:D:56:THR:HG22	1:D:57:GLY:N	2.00	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:223:ARG:HB3	1:A:223:ARG:HH11	1.50	0.76
1:C:73:ALA:HB1	1:F:189:PRO:CG	2.15	0.76
1:A:5:PHE:HE2	1:A:220:GLN:HE21	1.31	0.76
1:E:70:ILE:HG13	1:E:79:TRP:CE3	2.21	0.76
1:E:177:ALA:O	1:E:179:LYS:HG3	1.85	0.76
1:B:63:GLN:CG	1:B:64:SER:H	1.98	0.76
1:E:12:SER:HB3	1:E:221:PRO:CD	2.15	0.76
1:A:37:ASN:ND2	1:A:52:THR:H	1.83	0.76
1:B:35:ASP:O	1:B:36:CYS:CB	2.32	0.76
1:C:83:THR:HG22	1:C:84:LYS:H	1.50	0.76
1:C:92:LEU:HD21	1:C:100:VAL:HG13	1.68	0.76
1:F:29:ARG:O	1:F:40:LEU:HD12	1.86	0.76
1:B:94:LEU:HB2	1:B:100:VAL:HG12	1.66	0.76
1:F:42:ASP:O	1:F:43:SER:HB2	1.86	0.76
1:B:72:THR:CG2	1:B:74:GLN:HB2	2.10	0.76
1:A:39:VAL:HG22	1:A:49:ALA:HB1	1.68	0.75
1:F:41:PHE:HE2	1:F:46:ARG:HG2	1.51	0.75
1:A:161:ASN:HD22	1:A:176:THR:H	1.34	0.75
1:E:72:THR:HG21	1:E:76:THR:HG22	1.67	0.75
1:B:21:GLN:O	1:B:32:MET:N	2.14	0.75
1:D:43:SER:O	1:D:44:ASP:HB3	1.86	0.75
1:E:56:THR:HG22	1:E:57:GLY:H	1.51	0.75
1:B:63:GLN:HG3	1:B:64:SER:H	1.51	0.75
1:D:217:PHE:C	1:D:217:PHE:CD2	2.58	0.75
1:F:87:ILE:CG2	1:F:88:GLY:N	2.50	0.75
1:D:150:SER:H	1:D:152:TYR:H	1.35	0.75
1:F:101:THR:HG23	1:F:102:ILE:N	2.02	0.74
1:A:119:VAL:HG23	1:A:151:PRO:HD3	1.69	0.74
1:A:10:GLU:O	1:A:12:SER:N	2.19	0.74
1:E:18:HIS:H	1:E:21:GLN:CG	2.00	0.74
1:E:61:VAL:HG22	1:E:62:LEU:H	1.50	0.74
1:E:136:ASN:CB	1:E:136:ASN:HA	2.14	0.74
1:F:67:LEU:HD13	1:F:67:LEU:N	2.01	0.74
1:E:150:SER:HB3	1:E:151:PRO:CD	2.16	0.74
1:F:161:ASN:HD21	1:F:175:ASN:N	1.86	0.74
1:C:146:SER:O	1:C:154:LEU:O	2.05	0.74
1:E:110:SER:OG	1:E:225:LEU:HB3	1.87	0.74
1:E:161:ASN:HB2	1:E:176:THR:O	1.87	0.74
1:E:220:GLN:HB3	1:E:222:ASP:OD1	1.88	0.74
1:A:10:GLU:O	1:A:11:GLY:C	2.28	0.74
1:D:63:GLN:HE22	1:D:69:VAL:HG22	1.49	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:151:PRO:CD	1:A:152:TYR:H	2.00	0.74
1:B:37:ASN:HD21	1:B:51:ASN:N	1.86	0.74
1:B:44:ASP:OD1	1:B:45:VAL:N	2.21	0.74
1:B:63:GLN:CG	1:B:64:SER:N	2.51	0.74
1:D:217:PHE:O	1:D:217:PHE:CD2	2.38	0.74
1:E:143:ALA:HA	1:E:156:MET:O	1.88	0.73
1:F:28:PHE:HB3	1:F:94:LEU:HD11	1.70	0.73
1:A:18:HIS:O	1:A:20:ALA:N	2.21	0.73
1:B:25:LEU:O	1:B:28:PHE:N	2.21	0.73
1:C:217:PHE:HA	1:C:227:ILE:HG22	1.69	0.73
1:E:129:TYR:HD1	1:E:130:SER:N	1.86	0.73
1:A:154:LEU:HD22	1:A:162:LEU:HD22	1.69	0.73
1:C:166:ASP:OD1	1:C:166:ASP:O	2.07	0.73
1:E:19:ALA:O	1:E:20:ALA:HB2	1.89	0.73
1:E:72:THR:CG2	1:E:76:THR:HG22	2.19	0.73
1:E:87:ILE:CG2	1:E:88:GLY:N	2.50	0.73
1:E:131:THR:C	1:E:131:THR:CG2	2.60	0.73
1:F:67:LEU:HD13	1:F:67:LEU:H	1.53	0.73
1:C:97:ASP:CB	1:C:136:ASN:ND2	2.52	0.73
1:D:77:ILE:CD1	1:D:77:ILE:CB	2.66	0.73
1:A:196:LEU:CD1	1:A:202:ALA:HB2	2.18	0.73
1:E:142:HIS:O	1:E:143:ALA:CB	2.37	0.73
1:F:129:TYR:HD1	1:F:129:TYR:C	1.94	0.73
1:F:129:TYR:CD1	1:F:130:SER:N	2.55	0.73
1:E:131:THR:C	1:E:131:THR:HG22	2.15	0.72
1:A:32:MET:CE	1:A:60:ALA:HB2	2.17	0.72
1:A:127:ILE:CG2	1:A:217:PHE:HB3	2.19	0.72
1:C:73:ALA:HA	1:F:189:PRO:HG3	1.71	0.72
1:F:204:TRP:CE3	1:F:205:THR:N	2.57	0.72
1:A:210:ARG:HB3	1:A:215:TYR:OH	1.90	0.72
1:D:37:ASN:ND2	1:D:38:LEU:H	1.86	0.72
1:B:30:PHE:HE1	1:B:38:LEU:HG	1.54	0.72
1:D:105:PRO:C	1:D:106:GLY:O	2.32	0.72
1:E:72:THR:HG23	1:E:73:ALA:N	2.03	0.72
1:A:215:TYR:N	1:A:215:TYR:CD2	2.41	0.72
1:B:78:ARG:NE	1:B:78:ARG:HA	1.91	0.72
1:B:220:GLN:CB	1:B:221:PRO:CD	2.66	0.72
1:B:199:GLN:O	1:B:200:ASN:HB2	1.89	0.72
1:C:48:TRP:O	1:C:49:ALA:HB2	1.90	0.72
1:F:67:LEU:N	1:F:67:LEU:CD1	2.52	0.72
1:F:90:TYR:CD2	1:F:104:GLY:HA3	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:30:PHE:CE1	1:B:38:LEU:HG	2.25	0.72
1:D:197:THR:HG21	1:D:201:ILE:HB	1.71	0.72
1:A:18:HIS:O	1:A:21:GLN:HB2	1.90	0.72
1:A:22:SER:HB3	1:A:31:THR:CB	2.20	0.71
1:E:193:MET:HE2	1:E:217:PHE:CD1	2.25	0.71
1:B:90:TYR:HD2	1:B:104:GLY:HA3	1.54	0.71
1:C:48:TRP:O	1:C:49:ALA:CB	2.38	0.71
1:D:131:THR:HG21	1:D:214:ARG:NE	2.05	0.71
1:E:111:GLY:H	1:E:224:ASN:HD21	1.36	0.71
1:B:77:ILE:O	1:B:77:ILE:HG22	1.90	0.71
1:E:163:VAL:HG21	1:E:170:ARG:HG2	1.71	0.71
1:F:31:THR:HG23	1:F:31:THR:O	1.90	0.71
1:C:182:GLY:H	1:C:198:ASN:HB2	1.55	0.71
1:F:127:ILE:HG22	1:F:147:LEU:HD11	1.73	0.71
1:D:64:SER:OG	1:D:64:SER:HA	1.90	0.71
1:B:95:GLN:HB3	1:B:96:PRO:CD	2.20	0.71
1:B:189:PRO:CG	1:E:74:GLN:HG2	2.21	0.71
1:F:158:THR:O	1:F:159:ASP:C	2.34	0.71
1:F:197:THR:CB	1:F:201:ILE:HB	2.20	0.71
1:A:26:SER:OG	1:C:157:GLU:OE1	2.08	0.71
1:E:154:LEU:HD12	1:E:154:LEU:O	1.91	0.71
1:A:63:GLN:HE22	1:A:67:LEU:HD13	1.56	0.70
1:A:95:GLN:OE1	1:A:103:TYR:OH	2.08	0.70
1:D:8:SER:HA	1:D:9:HIS:ND1	2.06	0.70
1:D:168:ASP:O	1:D:169:ASP:HB3	1.89	0.70
1:E:129:TYR:CD1	1:E:130:SER:N	2.59	0.70
1:C:72:THR:O	1:C:73:ALA:CB	2.34	0.70
1:C:72:THR:HG23	1:C:73:ALA:C	2.17	0.70
1:A:69:VAL:HG23	1:A:69:VAL:O	1.91	0.70
1:C:26:SER:O	1:C:27:SER:CB	2.25	0.70
1:D:109:ASP:HB2	1:D:225:LEU:O	1.91	0.70
1:E:117:SER:O	1:E:119:VAL:HG13	1.91	0.70
1:E:158:THR:C	1:F:151:PRO:HG3	2.15	0.70
1:A:37:ASN:HD21	1:A:51:ASN:N	1.89	0.70
1:C:77:ILE:HG22	1:C:77:ILE:O	1.92	0.70
1:D:32:MET:HE2	1:D:38:LEU:HB2	1.73	0.70
1:E:220:GLN:OE1	1:E:224:ASN:HB3	1.92	0.70
1:A:149:LEU:HD11	1:A:221:PRO:HB3	1.72	0.70
1:A:223:ARG:HH11	1:A:223:ARG:CG	2.03	0.70
1:C:89:ASN:ND2	1:C:89:ASN:N	2.40	0.70
1:E:97:ASP:OD1	1:E:99:THR:CB	2.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:146:SER:O	1:A:147:LEU:HB2	1.92	0.69
1:F:141:LEU:HD12	1:F:145:GLN:HB3	1.73	0.69
1:E:72:THR:HG21	1:E:76:THR:CG2	2.22	0.69
1:C:65:ASP:C	1:C:65:ASP:OD1	2.33	0.69
1:F:7:LEU:O	1:F:9:HIS:CA	2.41	0.69
1:E:181:THR:O	1:E:182:GLY:C	2.34	0.69
1:B:78:ARG:HA	1:B:78:ARG:HE	1.56	0.69
1:F:155:SER:O	1:F:162:LEU:HD23	1.92	0.69
1:B:48:TRP:O	1:B:49:ALA:HB2	1.93	0.69
1:B:217:PHE:CD1	1:B:217:PHE:C	2.67	0.69
1:A:222:ASP:N	1:A:222:ASP:OD1	2.21	0.69
1:B:82:GLY:O	1:B:83:THR:C	2.36	0.69
1:B:185:ALA:HA	1:B:194:ASP:O	1.93	0.69
1:E:195:VAL:HG12	1:E:204:TRP:O	1.92	0.69
1:C:75:ASN:ND2	1:F:188:GLN:HE22	1.91	0.69
1:D:77:ILE:CD1	1:D:77:ILE:HB	2.21	0.69
1:A:9:HIS:O	1:A:11:GLY:N	2.26	0.69
1:D:93:VAL:HG23	1:D:94:LEU:N	2.07	0.69
1:E:18:HIS:H	1:E:21:GLN:HG2	1.58	0.68
1:F:211:SER:OG	1:F:212:ALA:N	2.22	0.68
1:B:85:GLY:O	1:B:86:SER:O	2.10	0.68
1:D:5:PHE:CE2	1:D:220:GLN:HG2	2.29	0.68
1:E:101:THR:CG2	1:E:103:TYR:CE1	2.76	0.68
1:B:203:VAL:O	1:B:204:TRP:HB2	1.94	0.68
1:C:73:ALA:CB	1:F:189:PRO:CG	2.71	0.68
1:D:152:TYR:CB	1:D:219:LEU:HD21	2.24	0.68
1:A:142:HIS:N	1:A:145:GLN:OE1	2.20	0.68
1:C:52:THR:CG2	1:C:79:TRP:HB2	2.23	0.68
1:C:193:MET:H	1:C:206:SER:HB3	1.57	0.68
1:E:158:THR:H	1:F:151:PRO:CG	2.04	0.68
1:E:158:THR:OG1	1:F:151:PRO:CD	2.41	0.68
1:F:30:PHE:CZ	1:F:38:LEU:HD21	2.28	0.68
1:C:53:ALA:O	1:C:78:ARG:NH2	2.25	0.68
1:E:4:LEU:HD12	1:E:4:LEU:C	2.15	0.68
1:F:137:HIS:HB3	1:F:138:PRO:HA	1.75	0.68
1:B:107:LEU:HD12	1:B:107:LEU:O	1.94	0.68
1:B:143:ALA:O	1:B:144:THR:C	2.36	0.68
1:C:30:PHE:HB2	1:C:40:LEU:HB2	1.75	0.68
1:D:129:TYR:CE1	1:D:131:THR:HB	2.28	0.68
1:D:137:HIS:HB2	1:D:138:PRO:CA	2.23	0.68
1:F:229:GLY:C	1:F:230:GLY:O	2.31	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:158:THR:OG1	1:B:159:ASP:N	2.22	0.68
1:C:97:ASP:CG	1:C:136:ASN:ND2	2.52	0.68
1:A:113:SER:HB2	1:A:222:ASP:HB2	1.75	0.68
1:B:95:GLN:HB3	1:B:96:PRO:HD3	1.75	0.68
1:D:143:ALA:C	1:D:145:GLN:H	2.02	0.68
1:A:157:GLU:HG3	1:C:26:SER:HG	1.59	0.67
1:D:52:THR:CG2	1:D:79:TRP:HB2	2.25	0.67
1:E:106:GLY:HA2	1:E:228:TYR:HA	1.74	0.67
1:A:62:LEU:HD21	1:A:90:TYR:CB	2.24	0.67
1:A:223:ARG:HH11	1:A:223:ARG:CB	2.08	0.67
1:A:229:GLY:HA2	1:A:230:GLY:O	1.93	0.67
1:D:37:ASN:HD22	1:D:38:LEU:N	1.90	0.67
1:D:224:ASN:HD22	1:D:224:ASN:N	1.90	0.67
1:B:195:VAL:O	1:B:195:VAL:HG12	1.94	0.67
1:E:115:LYS:H	1:E:115:LYS:CD	2.07	0.67
1:F:184:ARG:O	1:F:185:ALA:HB2	1.95	0.67
1:B:71:LEU:HD22	1:B:77:ILE:H	1.59	0.67
1:B:109:ASP:OD1	1:B:224:ASN:ND2	2.28	0.67
1:C:16:THR:HG22	1:C:17:LEU:N	2.10	0.67
1:D:169:ASP:O	1:D:169:ASP:OD2	2.13	0.67
1:D:193:MET:HA	1:D:193:MET:HE3	1.75	0.67
1:A:72:THR:OG1	1:A:73:ALA:N	2.27	0.67
1:B:129:TYR:HD1	1:B:131:THR:H	1.42	0.67
1:F:176:THR:HG21	1:F:203:VAL:CG1	2.25	0.67
1:F:215:TYR:CD1	1:F:227:ILE:HD11	2.30	0.67
1:A:18:HIS:HB2	1:A:21:GLN:OE1	1.94	0.67
1:B:30:PHE:C	1:B:30:PHE:CD1	2.65	0.67
1:B:70:ILE:O	1:B:70:ILE:HG22	1.92	0.67
1:C:72:THR:HG21	1:C:76:THR:OG1	1.95	0.67
1:D:37:ASN:HD21	1:D:51:ASN:H	1.43	0.67
1:D:197:THR:HG22	1:D:199:GLN:H	1.60	0.67
1:F:161:ASN:HD21	1:F:175:ASN:H	1.42	0.67
1:A:75:ASN:HD21	1:D:196:LEU:HD21	1.60	0.67
1:B:195:VAL:O	1:B:195:VAL:CG1	2.42	0.67
1:C:56:THR:CG2	1:C:57:GLY:H	2.04	0.67
1:F:28:PHE:O	1:F:29:ARG:HB2	1.95	0.67
1:B:146:SER:OG	1:B:155:SER:HB2	1.95	0.66
1:B:222:ASP:CB	1:B:224:ASN:OD1	2.41	0.66
1:C:137:HIS:N	1:C:137:HIS:CD2	2.59	0.66
1:F:169:ASP:C	1:F:169:ASP:OD2	2.37	0.66
1:D:70:ILE:O	1:D:70:ILE:CG2	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:72:THR:HG22	1:D:74:GLN:HB2	1.77	0.66
1:F:23:LEU:HB2	1:F:30:PHE:O	1.96	0.66
1:B:154:LEU:HG	1:B:225:LEU:CD1	2.24	0.66
1:D:141:LEU:O	1:D:185:ALA:HB3	1.94	0.66
1:E:39:VAL:HG12	1:E:40:LEU:N	2.08	0.66
1:A:179:LYS:NZ	1:A:179:LYS:CB	2.56	0.66
1:A:7:LEU:HD11	1:A:61:VAL:HG13	1.78	0.66
1:E:58:CYS:HA	1:E:71:LEU:O	1.95	0.66
1:A:72:THR:O	1:A:75:ASN:N	2.23	0.66
1:B:9:HIS:CD2	1:B:10:GLU:HB2	2.31	0.66
1:D:201:ILE:O	1:D:201:ILE:HG22	1.94	0.66
1:E:26:SER:OG	1:F:33:GLN:CG	2.37	0.66
1:C:155:SER:N	1:C:163:VAL:O	2.25	0.66
1:E:100:VAL:O	1:E:235:THR:HG22	1.96	0.66
1:C:2:ASN:HD21	1:C:125:ASN:ND2	1.93	0.66
1:C:220:GLN:OE1	1:C:224:ASN:HB3	1.95	0.66
1:D:42:ASP:O	1:D:43:SER:HB2	1.95	0.66
1:D:162:LEU:HB2	1:D:174:THR:OG1	1.96	0.66
1:B:30:PHE:C	1:B:30:PHE:HD1	2.02	0.66
1:E:72:THR:CG2	1:E:76:THR:H	2.09	0.66
1:A:4:LEU:C	1:A:4:LEU:CD2	2.68	0.66
1:A:22:SER:HB3	1:A:31:THR:HB	1.78	0.66
1:A:63:GLN:NE2	1:A:67:LEU:HD13	2.10	0.66
1:B:216:VAL:HG22	1:B:217:PHE:H	1.61	0.66
1:F:143:ALA:HA	1:F:156:MET:O	1.95	0.66
1:C:130:SER:HA	1:C:139:GLN:HG3	1.79	0.65
1:F:149:LEU:O	1:F:150:SER:CB	2.43	0.65
1:F:162:LEU:HD11	1:F:193:MET:HE3	1.76	0.65
1:B:202:ALA:O	1:B:203:VAL:HB	1.96	0.65
1:F:129:TYR:HE1	1:F:131:THR:N	1.94	0.65
1:E:194:ASP:HB3	1:E:196:LEU:HD13	1.78	0.65
1:D:150:SER:CB	1:D:151:PRO:CD	2.74	0.65
1:D:165:PHE:HB3	1:D:169:ASP:H	1.62	0.65
1:E:25:LEU:O	1:E:26:SER:C	2.30	0.65
1:A:62:LEU:CD2	1:A:90:TYR:HB2	2.25	0.65
1:A:86:SER:O	1:A:87:ILE:CG1	2.45	0.65
1:B:95:GLN:CB	1:B:96:PRO:CD	2.73	0.65
1:C:110:SER:HB2	1:C:112:THR:HG23	1.78	0.65
1:D:137:HIS:ND1	1:D:137:HIS:N	2.42	0.65
1:E:219:LEU:HD13	1:E:225:LEU:CD2	2.27	0.65
1:F:161:ASN:HD21	1:F:176:THR:H	1.42	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:72:THR:HG22	1:C:76:THR:N	2.05	0.65
1:E:22:SER:HA	1:E:31:THR:HA	1.78	0.65
1:E:61:VAL:HG12	1:E:69:VAL:HG22	1.78	0.65
1:B:92:LEU:HB2	1:B:102:ILE:HG13	1.78	0.65
1:C:197:THR:HG21	1:C:199:GLN:OE1	1.97	0.65
1:E:100:VAL:H	1:E:235:THR:HG21	1.61	0.65
1:B:100:VAL:O	1:B:101:THR:OG1	2.12	0.65
1:B:142:HIS:O	1:B:143:ALA:CB	2.43	0.65
1:C:52:THR:O	1:C:78:ARG:NH1	2.29	0.65
1:E:219:LEU:HD13	1:E:225:LEU:HD23	1.79	0.65
1:F:129:TYR:OH	1:F:131:THR:CB	2.44	0.65
1:A:12:SER:CB	1:A:221:PRO:HD2	2.22	0.65
1:D:97:ASP:OD1	1:D:97:ASP:N	2.30	0.65
1:F:166:ASP:O	1:F:167:ARG:C	2.35	0.65
1:A:37:ASN:HB2	1:A:53:ALA:HB2	1.78	0.64
1:B:217:PHE:O	1:B:217:PHE:CG	2.45	0.64
1:D:42:ASP:O	1:D:44:ASP:N	2.30	0.64
1:D:167:ARG:O	1:D:168:ASP:C	2.38	0.64
1:E:165:PHE:HE2	1:E:170:ARG:HG3	1.62	0.64
1:F:154:LEU:CD2	1:F:225:LEU:HD21	2.27	0.64
1:A:195:VAL:HG11	1:A:204:TRP:HB3	1.78	0.64
1:C:210:ARG:HB2	1:C:215:TYR:OH	1.96	0.64
1:E:72:THR:HG23	1:E:73:ALA:HB3	1.79	0.64
1:F:185:ALA:HA	1:F:194:ASP:O	1.96	0.64
1:A:26:SER:O	1:A:27:SER:CB	2.41	0.64
1:B:148:GLN:HA	1:B:153:ARG:HA	1.79	0.64
1:B:228:TYR:CD2	1:B:228:TYR:N	2.66	0.64
1:F:204:TRP:CD2	1:F:205:THR:N	2.66	0.64
1:B:154:LEU:CD2	1:B:225:LEU:HD11	2.28	0.64
1:C:59:ARG:HH12	1:F:184:ARG:NH2	1.95	0.64
1:F:190:ASN:OD1	1:F:190:ASN:O	2.15	0.64
1:B:163:VAL:HG21	1:B:165:PHE:CZ	2.32	0.64
1:C:127:ILE:HG22	1:C:217:PHE:HB3	1.80	0.64
1:C:152:TYR:CD2	1:C:223:ARG:HG3	2.32	0.64
1:D:150:SER:CB	1:D:151:PRO:HD3	2.28	0.64
1:E:127:ILE:HG21	1:E:217:PHE:HB3	1.79	0.64
1:F:193:MET:HB3	1:F:206:SER:HB3	1.78	0.64
1:A:39:VAL:HG12	1:A:41:PHE:CE1	2.31	0.64
1:A:110:SER:OG	1:A:225:LEU:HB2	1.97	0.64
1:B:26:SER:O	1:B:27:SER:CB	2.46	0.64
1:C:162:LEU:O	1:C:173:SER:OG	2.16	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:9:HIS:HA	1:D:15:GLN:HE22	1.62	0.64
1:D:153:ARG:HG3	1:D:153:ARG:O	1.95	0.64
1:E:119:VAL:HG21	1:E:151:PRO:HD3	1.78	0.64
1:E:142:HIS:O	1:E:143:ALA:HB3	1.97	0.64
1:A:104:GLY:C	1:A:105:PRO:O	2.39	0.64
1:C:4:LEU:CD1	1:C:14:PRO:HB2	2.28	0.64
1:E:77:ILE:HG22	1:E:77:ILE:O	1.97	0.64
1:F:40:LEU:HB3	1:F:48:TRP:H	1.61	0.64
1:A:17:LEU:O	1:A:59:ARG:HB2	1.98	0.64
1:A:26:SER:O	1:A:27:SER:HB3	1.96	0.64
1:C:7:LEU:CD1	1:C:61:VAL:CG1	2.76	0.64
1:C:222:ASP:OD1	1:C:222:ASP:N	2.29	0.64
1:D:101:THR:OG1	1:D:234:THR:HA	1.98	0.64
1:D:217:PHE:CZ	1:D:225:LEU:HD22	2.33	0.64
1:F:7:LEU:HA	1:F:15:GLN:HG2	1.79	0.64
1:F:58:CYS:HA	1:F:71:LEU:O	1.97	0.64
1:C:4:LEU:CD2	1:C:17:LEU:HD23	2.24	0.63
1:D:6:GLY:HA3	1:D:62:LEU:HD23	1.80	0.63
1:D:233:TRP:CH2	1:D:235:THR:HG23	2.33	0.63
1:D:193:MET:HE3	1:D:193:MET:CA	2.28	0.63
1:E:32:MET:HG2	1:E:60:ALA:CB	2.28	0.63
1:E:195:VAL:HG13	1:E:195:VAL:O	1.97	0.63
1:E:195:VAL:HG11	1:E:204:TRP:HB3	1.79	0.63
1:A:179:LYS:HZ2	1:A:179:LYS:CB	2.11	0.63
1:A:210:ARG:O	1:A:211:SER:C	2.40	0.63
1:C:188:GLN:O	1:C:191:GLY:N	2.31	0.63
1:F:30:PHE:HA	1:F:39:VAL:O	1.98	0.63
1:F:31:THR:HG22	1:F:39:VAL:O	1.99	0.63
1:A:44:ASP:O	1:A:45:VAL:O	2.17	0.63
1:A:191:GLY:HA3	1:A:215:TYR:CD1	2.33	0.63
1:B:109:ASP:CB	1:B:111:GLY:H	2.10	0.63
1:D:157:GLU:HB2	1:D:161:ASN:O	1.99	0.63
1:E:150:SER:CB	1:E:151:PRO:CD	2.73	0.63
1:F:188:GLN:HE21	1:F:189:PRO:HD2	1.62	0.63
1:C:47:VAL:O	1:C:47:VAL:HG12	1.99	0.63
1:F:215:TYR:CE1	1:F:229:GLY:HA3	2.34	0.63
1:F:223:ARG:HB3	1:F:223:ARG:HH11	1.63	0.63
1:F:223:ARG:HH11	1:F:223:ARG:CB	2.12	0.63
1:A:74:GLN:HE21	1:D:189:PRO:HG3	1.64	0.62
1:C:156:MET:O	1:C:157:GLU:O	2.17	0.62
1:E:69:VAL:HG23	1:E:71:LEU:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:32:MET:HE2	1:C:60:ALA:N	2.14	0.62
1:D:152:TYR:HB3	1:D:219:LEU:HD21	1.79	0.62
1:E:156:MET:HE2	1:E:183:CYS:HB3	1.81	0.62
1:F:137:HIS:HB3	1:F:138:PRO:CA	2.28	0.62
1:B:192:ARG:C	1:B:193:MET:O	2.41	0.62
1:C:162:LEU:HB3	1:C:174:THR:HG23	1.80	0.62
1:D:27:SER:HB2	1:D:28:PHE:CD2	2.34	0.62
1:F:127:ILE:HG22	1:F:147:LEU:CD1	2.29	0.62
1:A:29:ARG:HE	1:A:31:THR:CG2	2.13	0.62
1:B:28:PHE:HE2	1:B:98:ARG:HG3	1.63	0.62
1:B:34:SER:OG	1:D:151:PRO:CD	2.48	0.62
1:E:37:ASN:OD1	1:E:51:ASN:N	2.30	0.62
1:E:128:LEU:O	1:E:129:TYR:C	2.38	0.62
1:E:188:GLN:HG3	1:E:189:PRO:HD2	1.82	0.62
1:A:127:ILE:HG21	1:A:217:PHE:HB3	1.81	0.62
1:A:157:GLU:CG	1:C:26:SER:OG	2.47	0.62
1:B:12:SER:OG	1:B:222:ASP:OD1	2.08	0.62
1:B:146:SER:O	1:B:147:LEU:CB	2.29	0.62
1:F:217:PHE:HZ	1:F:225:LEU:CD2	2.13	0.62
1:B:37:ASN:OD1	1:B:49:ALA:HB1	2.00	0.62
1:C:7:LEU:CD1	1:C:61:VAL:HG11	2.19	0.62
1:D:70:ILE:HG21	1:D:79:TRP:HB3	1.82	0.62
1:D:226:ALA:HB3	1:D:228:TYR:CE2	2.35	0.62
1:E:101:THR:HG22	1:E:103:TYR:CD1	2.34	0.62
1:D:38:LEU:O	1:D:49:ALA:HA	2.00	0.62
1:A:4:LEU:C	1:A:4:LEU:HD23	2.25	0.62
1:B:18:HIS:O	1:B:32:MET:HB3	1.99	0.62
1:C:157:GLU:HB3	1:C:159:ASP:OD1	2.00	0.62
1:F:91:VAL:O	1:F:102:ILE:HG23	2.00	0.62
1:F:102:ILE:HG22	1:F:103:TYR:N	2.16	0.61
1:D:128:LEU:O	1:D:129:TYR:CB	2.47	0.61
1:C:90:TYR:CE2	1:C:104:GLY:HA3	2.35	0.61
1:C:216:VAL:O	1:C:227:ILE:HG22	2.01	0.61
1:E:112:THR:OG1	1:E:223:ARG:O	2.13	0.61
1:E:195:VAL:CG1	1:E:204:TRP:HB3	2.30	0.61
1:F:156:MET:SD	1:F:185:ALA:HB2	2.41	0.61
1:D:130:SER:O	1:D:131:THR:OG1	2.15	0.61
1:F:32:MET:HE3	1:F:38:LEU:HB2	1.81	0.61
1:D:16:THR:CG2	1:D:61:VAL:N	2.57	0.61
1:D:63:GLN:HE22	1:D:69:VAL:HG21	1.66	0.61
1:D:161:ASN:HA	1:D:176:THR:HG21	1.79	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:92:LEU:CG	1:E:100:VAL:HG11	2.31	0.61
1:A:56:THR:CG2	1:A:57:GLY:H	2.12	0.61
1:A:75:ASN:HD22	1:D:196:LEU:HD11	1.64	0.61
1:E:234:THR:OG1	1:E:235:THR:N	2.33	0.61
1:F:154:LEU:HD23	1:F:225:LEU:HD21	1.81	0.61
1:A:131:THR:CB	1:A:131:THR:HG1	2.07	0.61
1:C:127:ILE:HG23	1:C:127:ILE:O	2.00	0.61
1:E:158:THR:H	1:F:151:PRO:HD3	1.65	0.61
1:F:167:ARG:O	1:F:168:ASP:C	2.43	0.61
1:B:129:TYR:O	1:B:130:SER:CB	2.49	0.61
1:C:193:MET:H	1:C:206:SER:CB	2.14	0.61
1:E:162:LEU:HB3	1:E:174:THR:CG2	2.31	0.61
1:F:142:HIS:O	1:F:156:MET:HB3	2.00	0.61
1:D:137:HIS:HB3	1:D:138:PRO:C	2.26	0.61
1:B:35:ASP:OD2	1:B:53:ALA:HB1	2.00	0.60
1:B:217:PHE:HZ	1:B:225:LEU:CD1	2.10	0.60
1:D:92:LEU:HA	1:D:102:ILE:HG13	1.82	0.60
1:A:163:VAL:HG23	1:A:164:LEU:N	2.16	0.60
1:B:186:VAL:O	1:B:194:ASP:HB2	2.01	0.60
1:E:109:ASP:HA	1:E:225:LEU:O	2.00	0.60
1:B:109:ASP:OD2	1:B:109:ASP:N	2.33	0.60
1:D:101:THR:HG23	1:D:102:ILE:N	2.16	0.60
1:E:215:TYR:CE1	1:E:229:GLY:HA2	2.36	0.60
1:F:67:LEU:HD11	1:F:84:LYS:HB3	1.82	0.60
1:F:220:GLN:NE2	1:F:228:TYR:OH	2.33	0.60
1:D:100:VAL:O	1:D:101:THR:OG1	2.15	0.60
1:D:147:LEU:O	1:D:153:ARG:HA	2.00	0.60
1:A:110:SER:HG	1:A:225:LEU:HB2	1.66	0.60
1:D:32:MET:CE	1:D:38:LEU:HB2	2.32	0.60
1:D:107:LEU:HD11	1:D:209:SER:HA	1.84	0.60
1:D:159:ASP:O	1:D:177:ALA:HA	2.02	0.60
1:A:154:LEU:HD23	1:A:163:VAL:O	2.01	0.60
1:D:36:CYS:SG	1:D:55:ALA:HB3	2.42	0.60
1:D:42:ASP:O	1:D:43:SER:CB	2.49	0.60
1:D:153:ARG:NH2	1:D:165:PHE:CE1	2.70	0.60
1:D:187:LEU:HD13	1:D:227:ILE:HD12	1.84	0.60
1:E:193:MET:H	1:E:206:SER:HB3	1.66	0.60
1:C:33:GLN:NE2	1:C:35:ASP:OD1	2.34	0.60
1:D:64:SER:CB	1:D:64:SER:HG	2.10	0.60
1:E:27:SER:HB2	1:F:34:SER:OG	2.01	0.60
1:E:119:VAL:CG2	1:E:151:PRO:HD3	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:192:ARG:HA	1:B:206:SER:OG	2.02	0.60
1:F:63:GLN:HE21	1:F:69:VAL:HG21	1.65	0.60
1:F:129:TYR:HE1	1:F:131:THR:H	1.48	0.60
1:A:200:ASN:N	1:A:200:ASN:ND2	2.48	0.60
1:C:195:VAL:HG13	1:C:204:TRP:HB3	1.83	0.60
1:D:197:THR:HB	1:D:201:ILE:HB	1.83	0.60
1:E:72:THR:CG2	1:E:73:ALA:N	2.64	0.60
1:E:116:GLY:O	1:E:118:VAL:HG23	2.02	0.60
1:F:141:LEU:CD1	1:F:145:GLN:HB3	2.31	0.60
1:F:188:GLN:HB3	1:F:192:ARG:H	1.66	0.60
1:B:9:HIS:HD2	1:B:10:GLU:HB2	1.65	0.59
1:B:148:GLN:HB3	1:B:153:ARG:HB3	1.85	0.59
1:E:162:LEU:HB3	1:E:174:THR:HG21	1.84	0.59
1:B:183:CYS:HA	1:B:196:LEU:O	2.02	0.59
1:C:72:THR:HG23	1:C:73:ALA:O	2.02	0.59
1:D:128:LEU:O	1:D:129:TYR:CG	2.55	0.59
1:E:158:THR:H	1:F:151:PRO:CD	2.15	0.59
1:D:44:ASP:O	1:D:45:VAL:HB	2.02	0.59
1:D:112:THR:O	1:D:223:ARG:NH1	2.30	0.59
1:F:187:LEU:HD11	1:F:227:ILE:HD12	1.82	0.59
1:B:60:ALA:HB2	1:B:70:ILE:CD1	2.32	0.59
1:C:56:THR:HG22	1:C:57:GLY:N	2.17	0.59
1:D:156:MET:O	1:D:157:GLU:C	2.41	0.59
1:E:63:GLN:HB2	1:E:67:LEU:H	1.66	0.59
1:D:44:ASP:O	1:D:45:VAL:CB	2.43	0.59
1:D:153:ARG:NH2	1:D:165:PHE:HE1	2.00	0.59
1:C:167:ARG:O	1:C:168:ASP:C	2.44	0.59
1:D:137:HIS:HB2	1:D:138:PRO:HA	1.82	0.59
1:D:197:THR:HG22	1:D:199:GLN:O	2.03	0.59
1:F:59:ARG:O	1:F:70:ILE:HA	2.01	0.59
1:F:63:GLN:HB2	1:F:67:LEU:O	2.03	0.59
1:B:70:ILE:O	1:B:78:ARG:N	2.35	0.59
1:D:71:LEU:HD21	1:D:77:ILE:HG13	1.83	0.59
1:E:9:HIS:HB2	1:E:10:GLU:CG	2.26	0.59
1:F:217:PHE:CZ	1:F:225:LEU:HD23	2.37	0.59
1:A:161:ASN:HD21	1:A:175:ASN:H	1.50	0.59
1:B:37:ASN:HD21	1:B:51:ASN:H	1.48	0.59
1:C:215:TYR:CD1	1:C:229:GLY:HA2	2.38	0.59
1:D:84:LYS:HG3	1:D:84:LYS:O	2.02	0.59
1:D:95:GLN:HB2	1:D:99:THR:O	2.03	0.59
1:F:2:ASN:O	1:F:93:VAL:HG23	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:90:TYR:N	1:A:90:TYR:CD1	2.69	0.59
1:A:222:ASP:O	1:A:223:ARG:C	2.44	0.59
1:B:168:ASP:O	1:B:169:ASP:HB3	2.03	0.59
1:C:188:GLN:O	1:C:190:ASN:N	2.36	0.59
1:D:165:PHE:HD2	1:D:170:ARG:HA	1.66	0.59
1:D:182:GLY:HA3	1:D:198:ASN:H	1.67	0.59
1:A:52:THR:HG21	1:A:79:TRP:HB2	1.83	0.59
1:A:120:VAL:HG22	1:A:122:ASN:O	2.03	0.59
1:D:166:ASP:C	1:D:167:ARG:O	2.43	0.59
1:E:92:LEU:CG	1:E:100:VAL:CG1	2.81	0.59
1:B:3:ILE:HG22	1:B:93:VAL:CG1	2.32	0.58
1:F:2:ASN:HA	1:F:23:LEU:CD2	2.32	0.58
1:D:32:MET:HE1	1:D:70:ILE:HD11	1.85	0.58
1:F:126:SER:O	1:F:147:LEU:CD1	2.42	0.58
1:A:43:SER:C	1:A:44:ASP:O	2.43	0.58
1:A:101:THR:HG22	1:A:103:TYR:CZ	2.39	0.58
1:B:106:GLY:O	1:B:107:LEU:HB3	2.02	0.58
1:B:171:VAL:HB	1:B:223:ARG:HH12	1.69	0.58
1:E:92:LEU:HG	1:E:100:VAL:HG11	1.83	0.58
1:E:70:ILE:HG13	1:E:79:TRP:HE3	1.64	0.58
1:F:25:LEU:O	1:F:28:PHE:HB2	2.04	0.58
1:B:48:TRP:CG	1:B:49:ALA:N	2.69	0.58
1:C:2:ASN:OD1	1:C:2:ASN:C	2.45	0.58
1:E:5:PHE:O	1:E:6:GLY:C	2.44	0.58
1:A:58:CYS:HA	1:A:71:LEU:O	2.03	0.58
1:A:104:GLY:HA2	1:A:105:PRO:O	2.04	0.58
1:C:30:PHE:HB2	1:C:40:LEU:HA	1.85	0.58
1:D:16:THR:HG22	1:D:17:LEU:N	2.17	0.58
1:E:92:LEU:HD11	1:E:100:VAL:HG11	1.84	0.58
1:A:108:TRP:HB2	1:A:208:ASN:HD21	1.63	0.58
1:B:183:CYS:HB3	1:B:196:LEU:O	2.04	0.58
1:C:64:SER:O	1:C:87:ILE:O	2.21	0.58
1:D:129:TYR:HD2	1:D:215:TYR:O	1.86	0.58
1:E:163:VAL:CG2	1:E:170:ARG:HG2	2.33	0.58
1:A:64:SER:O	1:A:87:ILE:O	2.22	0.58
1:B:42:ASP:O	1:B:43:SER:HB2	2.03	0.58
1:C:220:GLN:O	1:C:221:PRO:C	2.46	0.58
1:E:170:ARG:CB	1:E:170:ARG:HH11	2.17	0.58
1:A:220:GLN:HG2	1:A:221:PRO:HD3	1.86	0.58
1:C:4:LEU:HD12	1:C:5:PHE:N	2.17	0.58
1:E:32:MET:HG2	1:E:60:ALA:HB3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:219:LEU:CD1	1:E:225:LEU:HD23	2.34	0.58
1:F:142:HIS:CD2	1:F:145:GLN:OE1	2.56	0.58
1:F:162:LEU:HD11	1:F:193:MET:CE	2.34	0.58
1:D:5:PHE:HZ	1:D:220:GLN:HG2	1.63	0.58
1:E:59:ARG:O	1:E:71:LEU:N	2.36	0.58
1:B:2:ASN:H	1:B:2:ASN:HD22	1.52	0.57
1:C:235:THR:O	1:C:236:GLY:C	2.47	0.57
1:D:44:ASP:C	1:D:44:ASP:OD1	2.47	0.57
1:D:204:TRP:CG	1:D:205:THR:N	2.70	0.57
1:E:136:ASN:CB	1:E:136:ASN:C	2.76	0.57
1:A:161:ASN:HD21	1:A:175:ASN:N	2.02	0.57
1:D:37:ASN:ND2	1:D:38:LEU:N	2.51	0.57
1:D:204:TRP:CE3	1:D:205:THR:HA	2.39	0.57
1:E:119:VAL:O	1:E:120:VAL:HB	2.03	0.57
1:E:157:GLU:HG2	1:F:150:SER:OG	2.04	0.57
1:F:94:LEU:O	1:F:94:LEU:HG	1.94	0.57
1:F:128:LEU:HB3	1:F:129:TYR:CD2	2.39	0.57
1:A:167:ARG:O	1:A:169:ASP:N	2.37	0.57
1:F:197:THR:O	1:F:199:GLN:N	2.38	0.57
1:A:157:GLU:CD	1:C:26:SER:OG	2.48	0.57
1:C:4:LEU:HD22	1:C:17:LEU:CD2	2.27	0.57
1:D:3:ILE:CG2	1:D:93:VAL:HB	2.31	0.57
1:E:92:LEU:CD1	1:E:100:VAL:HG11	2.34	0.57
1:E:161:ASN:ND2	1:E:176:THR:H	2.01	0.57
1:C:41:PHE:HA	1:C:45:VAL:O	2.05	0.57
1:D:154:LEU:CG	1:D:225:LEU:HD11	2.35	0.57
1:D:156:MET:O	1:D:157:GLU:O	2.22	0.57
1:D:197:THR:O	1:D:198:ASN:C	2.46	0.57
1:A:127:ILE:O	1:A:127:ILE:CG2	2.47	0.57
1:A:220:GLN:HB2	1:A:224:ASN:HB3	1.86	0.57
1:C:80:SER:OG	1:C:81:SER:N	2.37	0.57
1:C:89:ASN:H	1:C:89:ASN:HD22	1.51	0.57
1:D:137:HIS:CB	1:D:138:PRO:CA	2.83	0.57
1:A:18:HIS:O	1:A:19:ALA:C	2.47	0.57
1:A:152:TYR:CD2	1:A:223:ARG:HG3	2.40	0.57
1:C:67:LEU:HD21	1:C:82:GLY:CA	2.31	0.57
1:F:18:HIS:HB2	1:F:21:GLN:CD	2.30	0.57
1:C:120:VAL:HG13	1:C:122:ASN:O	2.05	0.57
1:E:64:SER:O	1:E:65:ASP:CB	2.30	0.57
1:E:152:TYR:O	1:E:153:ARG:HB3	2.04	0.57
1:F:142:HIS:CD2	1:F:142:HIS:N	2.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:160:CYS:O	1:A:176:THR:HG23	2.05	0.57
1:B:67:LEU:O	1:B:68:LEU:C	2.45	0.57
1:C:211:SER:O	1:C:212:ALA:C	2.44	0.57
1:E:188:GLN:HG3	1:E:189:PRO:CD	2.34	0.57
1:A:22:SER:CB	1:A:31:THR:HG22	2.33	0.57
1:D:62:LEU:HA	1:D:68:LEU:HA	1.85	0.57
1:D:160:CYS:SG	1:D:180:GLY:HA3	2.44	0.57
1:E:148:GLN:HA	1:E:153:ARG:HA	1.87	0.57
1:F:30:PHE:HA	1:F:31:THR:HG22	1.87	0.57
1:F:156:MET:HE1	1:F:195:VAL:HG21	1.87	0.57
1:A:119:VAL:CG2	1:A:151:PRO:HD3	2.35	0.56
1:D:39:VAL:CG1	1:D:40:LEU:N	2.67	0.56
1:A:13:HIS:HA	1:A:14:PRO:O	2.04	0.56
1:B:35:ASP:OD1	1:B:35:ASP:N	2.33	0.56
1:C:74:GLN:HG3	1:F:189:PRO:CB	2.26	0.56
1:C:74:GLN:H	1:F:189:PRO:CG	2.17	0.56
1:E:29:ARG:NH2	1:E:41:PHE:CE1	2.73	0.56
1:E:149:LEU:HD13	1:E:221:PRO:HA	1.87	0.56
1:B:29:ARG:O	1:B:41:PHE:N	2.38	0.56
1:E:158:THR:CG2	1:F:151:PRO:HG2	2.32	0.56
1:E:159:ASP:N	1:E:159:ASP:OD1	2.36	0.56
1:F:146:SER:OG	1:F:155:SER:HB3	2.05	0.56
1:C:114:ASN:ND2	1:C:223:ARG:HD3	2.21	0.56
1:E:177:ALA:O	1:E:179:LYS:N	2.39	0.56
1:F:72:THR:HG22	1:F:74:GLN:HB2	1.87	0.56
1:C:4:LEU:HD12	1:C:4:LEU:C	2.29	0.56
1:C:69:VAL:O	1:C:69:VAL:HG23	2.06	0.56
1:C:87:ILE:O	1:C:88:GLY:O	2.24	0.56
1:D:215:TYR:O	1:D:216:VAL:HB	2.04	0.56
1:B:100:VAL:O	1:B:234:THR:HA	2.05	0.56
1:D:178:GLY:O	1:D:179:LYS:C	2.48	0.56
1:D:211:SER:O	1:D:212:ALA:C	2.46	0.56
1:E:159:ASP:O	1:E:160:CYS:HB3	2.05	0.56
1:F:215:TYR:HD1	1:F:227:ILE:HD11	1.70	0.56
1:A:52:THR:O	1:A:78:ARG:NH1	2.38	0.56
1:A:69:VAL:O	1:A:69:VAL:CG2	2.51	0.56
1:D:104:GLY:HA2	1:D:105:PRO:O	2.06	0.56
1:E:80:SER:OG	1:E:81:SER:N	2.35	0.56
1:E:111:GLY:H	1:E:224:ASN:ND2	2.03	0.56
1:A:54:GLY:O	1:A:55:ALA:HB2	2.05	0.56
1:A:74:GLN:HE21	1:D:189:PRO:CG	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:132:GLN:HG2	1:B:214:ARG:HH12	1.71	0.56
1:C:112:THR:O	1:C:113:SER:C	2.42	0.56
1:C:130:SER:C	1:C:131:THR:O	2.43	0.56
1:D:31:THR:N	1:D:39:VAL:O	2.32	0.56
1:A:75:ASN:ND2	1:D:196:LEU:HD21	2.21	0.56
1:A:154:LEU:O	1:A:155:SER:CB	2.46	0.56
1:B:17:LEU:H	1:B:61:VAL:H	1.53	0.56
1:C:129:TYR:CB	1:C:131:THR:HG22	2.36	0.56
1:D:174:THR:HG22	1:D:174:THR:O	2.02	0.56
1:F:90:TYR:N	1:F:90:TYR:CD1	2.72	0.56
1:A:134:ASN:N	1:A:214:ARG:HH22	2.03	0.56
1:B:37:ASN:HD21	1:B:52:THR:H	1.52	0.56
1:B:188:GLN:CG	1:B:189:PRO:CD	2.83	0.56
1:D:94:LEU:HD12	1:D:94:LEU:C	2.31	0.56
1:D:103:TYR:HB3	1:D:228:TYR:O	2.06	0.56
1:B:37:ASN:HD22	1:B:52:THR:H	1.49	0.55
1:B:146:SER:O	1:B:147:LEU:O	2.23	0.55
1:C:113:SER:HA	1:C:222:ASP:O	2.06	0.55
1:A:97:ASP:O	1:A:98:ARG:C	2.48	0.55
1:A:131:THR:OG1	1:A:131:THR:HG21	2.03	0.55
1:E:141:LEU:CD2	1:E:185:ALA:HB3	2.36	0.55
1:A:5:PHE:HE2	1:A:220:GLN:NE2	2.03	0.55
1:A:72:THR:HG21	1:A:76:THR:OG1	2.07	0.55
1:C:166:ASP:HB2	1:C:171:VAL:HG11	1.87	0.55
1:A:152:TYR:CE2	1:A:223:ARG:HG3	2.41	0.55
1:B:162:LEU:CD1	1:B:193:MET:HE3	2.34	0.55
1:D:129:TYR:HD1	1:D:130:SER:N	1.98	0.55
1:D:152:TYR:HB2	1:D:219:LEU:HD21	1.88	0.55
1:E:176:THR:HG23	1:E:179:LYS:HD3	1.87	0.55
1:F:71:LEU:CD2	1:F:77:ILE:H	2.19	0.55
1:A:232:LEU:HG	1:A:232:LEU:O	2.05	0.55
1:B:59:ARG:NH2	1:B:71:LEU:HD12	2.21	0.55
1:C:42:ASP:O	1:C:43:SER:C	2.50	0.55
1:D:163:VAL:HG21	1:D:165:PHE:CZ	2.42	0.55
1:F:76:THR:HA	1:F:77:ILE:HG13	1.89	0.55
1:F:211:SER:OG	1:F:212:ALA:O	2.24	0.55
1:A:37:ASN:HD22	1:A:52:THR:H	1.52	0.55
1:A:225:LEU:O	1:A:226:ALA:HB2	2.06	0.55
1:C:163:VAL:HG23	1:C:164:LEU:N	2.20	0.55
1:F:67:LEU:CD1	1:F:84:LYS:HB3	2.36	0.55
1:C:161:ASN:HD21	1:C:175:ASN:CA	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:217:PHE:HA	1:C:227:ILE:HG23	1.88	0.55
1:F:77:ILE:O	1:F:77:ILE:CG2	2.49	0.55
1:B:63:GLN:O	1:B:64:SER:C	2.47	0.55
1:B:107:LEU:HD12	1:B:107:LEU:C	2.32	0.55
1:D:18:HIS:H	1:D:21:GLN:HG3	1.72	0.55
1:D:25:LEU:O	1:D:26:SER:C	2.50	0.55
1:D:108:TRP:C	1:D:108:TRP:CD2	2.83	0.55
1:E:56:THR:HG22	1:E:57:GLY:N	2.20	0.55
1:F:16:THR:HG23	1:F:61:VAL:H	1.72	0.55
1:A:32:MET:HE1	1:A:70:ILE:HG23	1.89	0.55
1:C:50:SER:OG	1:C:50:SER:O	2.24	0.55
1:C:95:GLN:HE21	1:C:99:THR:HG22	1.72	0.55
1:F:87:ILE:CG2	1:F:88:GLY:H	2.18	0.55
1:A:32:MET:HE2	1:A:60:ALA:CB	2.25	0.54
1:A:110:SER:OG	1:A:225:LEU:N	2.39	0.54
1:B:156:MET:O	1:B:157:GLU:C	2.49	0.54
1:C:97:ASP:C	1:C:97:ASP:OD1	2.49	0.54
1:D:101:THR:HG21	1:D:103:TYR:OH	2.08	0.54
1:D:181:THR:O	1:D:182:GLY:C	2.50	0.54
1:F:110:SER:OG	1:F:225:LEU:HD13	2.07	0.54
1:A:166:ASP:O	1:A:167:ARG:O	2.25	0.54
1:C:97:ASP:CG	1:C:136:ASN:HD21	2.14	0.54
1:C:166:ASP:C	1:C:167:ARG:O	2.42	0.54
1:F:193:MET:O	1:F:204:TRP:HZ3	1.90	0.54
1:A:4:LEU:HD12	1:A:17:LEU:HD21	1.89	0.54
1:A:174:THR:O	1:A:175:ASN:OD1	2.26	0.54
1:C:163:VAL:HG23	1:C:164:LEU:H	1.73	0.54
1:A:150:SER:OG	1:A:151:PRO:N	2.40	0.54
1:C:93:VAL:CG2	1:C:95:GLN:HG3	2.37	0.54
1:D:223:ARG:CB	1:D:223:ARG:HH11	2.21	0.54
1:E:152:TYR:HA	1:E:165:PHE:O	2.07	0.54
1:F:75:ASN:O	1:F:76:THR:HB	2.06	0.54
1:B:213:GLY:O	1:B:214:ARG:C	2.51	0.54
1:B:220:GLN:HB2	1:B:221:PRO:CD	2.38	0.54
1:C:95:GLN:NE2	1:C:99:THR:CG2	2.71	0.54
1:E:39:VAL:CG1	1:E:40:LEU:N	2.66	0.54
1:F:142:HIS:H	1:F:145:GLN:HB2	1.73	0.54
1:B:214:ARG:O	1:B:215:TYR:HD2	1.91	0.54
1:C:52:THR:HG21	1:C:79:TRP:HB2	1.89	0.54
1:B:28:PHE:CE2	1:B:98:ARG:CG	2.87	0.54
1:B:228:TYR:N	1:B:228:TYR:HD2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:95:GLN:HE21	1:F:99:THR:CG2	2.20	0.54
1:C:163:VAL:CG2	1:C:164:LEU:N	2.69	0.54
1:D:95:GLN:HG2	1:D:128:LEU:CD2	2.37	0.54
1:D:161:ASN:ND2	1:D:175:ASN:H	2.06	0.54
1:D:197:THR:CG2	1:D:201:ILE:HB	2.36	0.54
1:A:151:PRO:HD2	1:A:152:TYR:N	2.13	0.54
1:B:176:THR:HG22	1:B:176:THR:O	2.06	0.54
1:C:74:GLN:H	1:F:189:PRO:CB	2.20	0.54
1:E:110:SER:N	1:E:225:LEU:O	2.40	0.54
1:F:63:GLN:NE2	1:F:69:VAL:CG2	2.71	0.54
1:A:101:THR:HA	1:A:233:TRP:O	2.08	0.54
1:C:119:VAL:O	1:C:120:VAL:HG23	2.08	0.54
1:D:101:THR:CG2	1:D:102:ILE:N	2.70	0.54
1:E:37:ASN:OD1	1:E:51:ASN:HA	2.08	0.54
1:F:70:ILE:O	1:F:70:ILE:HG22	2.08	0.54
1:A:143:ALA:O	1:A:144:THR:CB	2.51	0.53
1:A:220:GLN:HB2	1:A:224:ASN:CB	2.38	0.53
1:E:32:MET:HE1	1:E:70:ILE:HG23	1.90	0.53
1:E:69:VAL:O	1:E:69:VAL:CG2	2.52	0.53
1:E:83:THR:HG22	1:E:84:LYS:H	1.74	0.53
1:B:189:PRO:CD	1:B:190:ASN:N	2.72	0.53
1:E:6:GLY:HA2	1:E:62:LEU:CD2	2.18	0.53
1:F:217:PHE:C	1:F:217:PHE:HD2	2.13	0.53
1:B:197:THR:O	1:B:199:GLN:N	2.41	0.53
1:C:63:GLN:OE1	1:F:200:ASN:ND2	2.41	0.53
1:E:166:ASP:O	1:E:168:ASP:N	2.41	0.53
1:A:63:GLN:HG2	1:D:199:GLN:HA	1.90	0.53
1:A:185:ALA:HA	1:A:194:ASP:O	2.07	0.53
1:B:90:TYR:CD2	1:B:104:GLY:CA	2.89	0.53
1:C:101:THR:CG2	1:C:103:TYR:CE1	2.92	0.53
1:D:197:THR:CB	1:D:201:ILE:HB	2.39	0.53
1:C:73:ALA:HB1	1:F:189:PRO:HG3	1.88	0.53
1:F:2:ASN:OD1	1:F:3:ILE:N	2.41	0.53
1:F:142:HIS:HD2	1:F:145:GLN:OE1	1.92	0.53
1:F:146:SER:HG	1:F:155:SER:HB3	1.74	0.53
1:F:148:GLN:HG3	1:F:153:ARG:HB3	1.90	0.53
1:A:56:THR:HG22	1:A:57:GLY:N	2.18	0.53
1:B:220:GLN:NE2	1:B:228:TYR:OH	2.41	0.53
1:D:16:THR:CG2	1:D:61:VAL:HG22	2.38	0.53
1:F:87:ILE:O	1:F:88:GLY:C	2.51	0.53
1:D:152:TYR:N	1:D:152:TYR:CD2	2.76	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:63:GLN:HB2	1:E:67:LEU:N	2.24	0.53
1:F:156:MET:SD	1:F:184:ARG:O	2.66	0.53
1:A:7:LEU:CD1	1:A:61:VAL:HG13	2.39	0.53
1:A:193:MET:CG	1:A:204:TRP:HZ3	2.21	0.53
1:B:67:LEU:CD1	1:B:84:LYS:HG3	2.34	0.53
1:C:33:GLN:HG3	1:C:37:ASN:O	2.08	0.53
1:F:220:GLN:CB	1:F:221:PRO:CD	2.86	0.53
1:F:230:GLY:O	1:F:231:ALA:CB	2.29	0.53
1:B:199:GLN:O	1:B:200:ASN:CB	2.56	0.52
1:C:221:PRO:O	1:C:222:ASP:C	2.52	0.52
1:D:187:LEU:CD2	1:D:217:PHE:HB2	2.39	0.52
1:E:29:ARG:HH21	1:E:31:THR:CG2	2.22	0.52
1:F:71:LEU:HD23	1:F:77:ILE:H	1.73	0.52
1:A:72:THR:O	1:A:74:GLN:N	2.42	0.52
1:A:127:ILE:HG22	1:A:217:PHE:O	2.09	0.52
1:C:12:SER:HB3	1:C:221:PRO:HB2	1.92	0.52
1:E:162:LEU:HD12	1:E:174:THR:HG21	1.91	0.52
1:F:140:THR:OG1	1:F:141:LEU:N	2.40	0.52
1:C:197:THR:CG2	1:C:199:GLN:OE1	2.56	0.52
1:E:38:LEU:N	1:E:50:SER:OG	2.37	0.52
1:E:72:THR:HG22	1:E:75:ASN:N	2.24	0.52
1:E:83:THR:HG22	1:E:84:LYS:N	2.24	0.52
1:D:109:ASP:CB	1:D:225:LEU:O	2.57	0.52
1:B:110:SER:HB3	1:B:112:THR:HG22	1.91	0.52
1:C:92:LEU:HD21	1:C:100:VAL:CG1	2.37	0.52
1:C:162:LEU:CB	1:C:174:THR:HG23	2.40	0.52
1:A:134:ASN:N	1:A:214:ARG:NH2	2.58	0.52
1:A:142:HIS:O	1:A:156:MET:HB3	2.10	0.52
1:C:147:LEU:O	1:C:154:LEU:N	2.25	0.52
1:D:37:ASN:HD21	1:D:51:ASN:N	2.08	0.52
1:F:167:ARG:O	1:F:169:ASP:N	2.43	0.52
1:F:220:GLN:HB3	1:F:221:PRO:CD	2.40	0.52
1:B:61:VAL:HG22	1:B:62:LEU:N	2.25	0.52
1:C:18:HIS:CB	1:C:21:GLN:NE2	2.66	0.52
1:D:63:GLN:NE2	1:D:69:VAL:CG2	2.61	0.52
1:D:101:THR:HG23	1:D:102:ILE:H	1.75	0.52
1:D:108:TRP:O	1:D:109:ASP:HB3	2.10	0.52
1:E:27:SER:HB3	1:E:28:PHE:CD2	2.43	0.52
1:E:69:VAL:CG2	1:E:71:LEU:HG	2.39	0.52
1:B:224:ASN:O	1:B:225:LEU:HD23	2.10	0.52
1:C:36:CYS:HB3	1:C:78:ARG:NH1	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:58:CYS:HA	1:C:71:LEU:O	2.10	0.52
1:C:58:CYS:HB2	1:C:71:LEU:O	2.09	0.52
1:F:67:LEU:N	1:F:67:LEU:HD12	2.23	0.52
1:A:48:TRP:CD1	1:A:235:THR:HG22	2.45	0.52
1:B:143:ALA:HA	1:B:156:MET:O	2.09	0.52
1:B:157:GLU:CG	1:B:161:ASN:HB3	2.34	0.52
1:E:141:LEU:HD22	1:E:185:ALA:HB3	1.91	0.52
1:F:129:TYR:HH	1:F:131:THR:CB	2.23	0.52
1:B:188:GLN:CB	1:B:189:PRO:CD	2.88	0.52
1:C:195:VAL:CG2	1:C:203:VAL:HG12	2.40	0.52
1:D:129:TYR:CE1	1:D:131:THR:CB	2.92	0.52
1:D:161:ASN:ND2	1:D:176:THR:H	2.08	0.52
1:D:161:ASN:HD21	1:D:175:ASN:H	1.58	0.52
1:D:161:ASN:HD22	1:D:176:THR:HB	1.75	0.52
1:E:62:LEU:HG	1:E:62:LEU:O	2.04	0.52
1:E:210:ARG:HG3	1:E:211:SER:H	1.74	0.52
1:A:12:SER:HB3	1:A:221:PRO:CG	2.39	0.51
1:C:72:THR:HG21	1:C:76:THR:CA	2.39	0.51
1:D:224:ASN:O	1:D:225:LEU:HD23	2.10	0.51
1:E:127:ILE:HG12	1:E:138:PRO:O	2.09	0.51
1:B:216:VAL:HG22	1:B:217:PHE:N	2.22	0.51
1:B:220:GLN:HB3	1:B:221:PRO:CD	2.40	0.51
1:D:28:PHE:CZ	1:D:98:ARG:HG3	2.45	0.51
1:D:80:SER:O	1:D:81:SER:C	2.51	0.51
1:F:128:LEU:HA	1:F:129:TYR:HB3	1.91	0.51
1:A:39:VAL:CG1	1:A:41:PHE:CE1	2.92	0.51
1:B:44:ASP:O	1:B:45:VAL:HB	2.10	0.51
1:B:142:HIS:O	1:B:143:ALA:HB2	2.11	0.51
1:C:137:HIS:HB3	1:C:138:PRO:CA	2.40	0.51
1:E:93:VAL:HG23	1:E:94:LEU:N	2.25	0.51
1:F:201:ILE:HG22	1:F:202:ALA:N	2.24	0.51
1:A:90:TYR:CD2	1:A:104:GLY:HA3	2.46	0.51
1:A:161:ASN:ND2	1:A:176:THR:N	2.54	0.51
1:E:109:ASP:HA	1:E:226:ALA:HA	1.92	0.51
1:E:185:ALA:HA	1:E:194:ASP:O	2.10	0.51
1:A:104:GLY:CA	1:A:105:PRO:O	2.59	0.51
1:A:119:VAL:HG21	1:A:151:PRO:CG	2.40	0.51
1:B:188:GLN:HG3	1:E:74:GLN:HA	1.92	0.51
1:C:34:SER:O	1:C:56:THR:HG23	2.09	0.51
1:C:44:ASP:O	1:C:45:VAL:CG2	2.58	0.51
1:C:155:SER:O	1:C:162:LEU:HD23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:23:LEU:H	1:D:30:PHE:HB3	1.76	0.51
1:D:87:ILE:O	1:D:88:GLY:O	2.28	0.51
1:D:169:ASP:OD2	1:D:169:ASP:C	2.54	0.51
1:E:125:ASN:HA	1:E:147:LEU:CD1	2.40	0.51
1:F:161:ASN:ND2	1:F:176:THR:N	2.39	0.51
1:F:220:GLN:HB3	1:F:221:PRO:HD2	1.92	0.51
1:A:30:PHE:CD1	1:A:100:VAL:HG21	2.45	0.51
1:A:42:ASP:O	1:A:43:SER:CB	2.58	0.51
1:B:94:LEU:CB	1:B:100:VAL:HG12	2.40	0.51
1:B:225:LEU:O	1:B:226:ALA:HB2	2.10	0.51
1:C:161:ASN:HD21	1:C:175:ASN:HA	1.75	0.51
1:D:39:VAL:CG1	1:D:40:LEU:H	2.20	0.51
1:D:154:LEU:CD2	1:D:225:LEU:HD11	2.40	0.51
1:E:117:SER:O	1:E:119:VAL:HG22	2.10	0.51
1:E:159:ASP:H	1:F:151:PRO:HB3	1.75	0.51
1:F:204:TRP:CE3	1:F:204:TRP:C	2.89	0.51
1:A:159:ASP:HB2	1:A:177:ALA:HB1	1.92	0.51
1:B:101:THR:HG21	1:B:103:TYR:CZ	2.45	0.51
1:A:167:ARG:O	1:A:168:ASP:C	2.51	0.51
1:B:71:LEU:HD22	1:B:77:ILE:N	2.25	0.51
1:B:94:LEU:HA	1:B:100:VAL:HG12	1.93	0.51
1:B:142:HIS:H	1:B:145:GLN:HB3	1.76	0.51
1:D:89:ASN:O	1:D:90:TYR:CD1	2.64	0.51
1:E:26:SER:CB	1:F:33:GLN:HG3	2.39	0.51
1:E:48:TRP:CD2	1:E:49:ALA:N	2.78	0.51
1:E:107:LEU:HD12	1:E:208:ASN:HB2	1.91	0.51
1:F:30:PHE:CZ	1:F:38:LEU:HD11	2.46	0.51
1:C:101:THR:HG22	1:C:103:TYR:CE1	2.46	0.51
1:C:159:ASP:HB2	1:C:177:ALA:HA	1.93	0.51
1:D:56:THR:CG2	1:D:57:GLY:N	2.65	0.51
1:F:50:SER:O	1:F:52:THR:N	2.44	0.51
1:B:71:LEU:CD2	1:B:77:ILE:H	2.22	0.51
1:B:103:TYR:CD1	1:B:216:VAL:HB	2.46	0.51
1:D:189:PRO:CD	1:D:190:ASN:H	2.19	0.51
1:E:4:LEU:CD1	1:E:5:PHE:H	2.15	0.51
1:E:105:PRO:HD2	1:E:210:ARG:HH22	1.70	0.51
1:A:150:SER:OG	1:A:151:PRO:CD	2.59	0.50
1:C:112:THR:OG1	1:C:223:ARG:O	2.27	0.50
1:E:18:HIS:HB2	1:E:21:GLN:NE2	2.26	0.50
1:C:141:LEU:HD11	1:C:147:LEU:HD13	1.92	0.50
1:E:12:SER:HB3	1:E:221:PRO:CG	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:19:ALA:O	1:E:20:ALA:CB	2.50	0.50
1:A:28:PHE:CZ	1:A:98:ARG:HG3	2.46	0.50
1:A:117:SER:O	1:A:119:VAL:HG13	2.11	0.50
1:B:217:PHE:CD1	1:B:217:PHE:O	2.64	0.50
1:C:97:ASP:OD1	1:C:99:THR:HB	2.12	0.50
1:D:9:HIS:HA	1:D:15:GLN:NE2	2.26	0.50
1:D:142:HIS:HB2	1:D:145:GLN:HB2	1.93	0.50
1:F:153:ARG:HE	1:F:165:PHE:HD1	1.56	0.50
1:B:197:THR:O	1:B:198:ASN:C	2.52	0.50
1:C:143:ALA:O	1:C:144:THR:CB	2.58	0.50
1:D:4:LEU:HD22	1:D:17:LEU:CD2	2.41	0.50
1:B:216:VAL:O	1:B:217:PHE:HB2	2.12	0.50
1:C:74:GLN:H	1:F:189:PRO:HB2	1.76	0.50
1:D:93:VAL:CG2	1:D:94:LEU:N	2.69	0.50
1:D:158:THR:C	1:D:160:CYS:H	2.20	0.50
1:D:168:ASP:O	1:D:169:ASP:CB	2.54	0.50
1:E:30:PHE:CE1	1:E:100:VAL:HG21	2.46	0.50
1:B:163:VAL:CG2	1:B:165:PHE:CE1	2.92	0.50
1:B:215:TYR:CD2	1:B:229:GLY:HA2	2.47	0.50
1:C:2:ASN:HD21	1:C:125:ASN:HD22	1.60	0.50
1:E:36:CYS:SG	1:E:55:ALA:HB3	2.52	0.50
1:F:16:THR:HG22	1:F:17:LEU:H	1.75	0.50
1:F:101:THR:OG1	1:F:234:THR:HA	2.11	0.50
1:A:159:ASP:HB2	1:A:178:GLY:H	1.75	0.50
1:B:90:TYR:HB3	1:B:103:TYR:O	2.12	0.50
1:E:69:VAL:HG22	1:E:69:VAL:O	2.11	0.50
1:B:142:HIS:HB2	1:B:145:GLN:OE1	2.11	0.50
1:B:187:LEU:C	1:B:188:GLN:O	2.52	0.50
1:E:9:HIS:CB	1:E:10:GLU:HG3	2.29	0.50
1:E:69:VAL:HG21	1:E:71:LEU:CG	2.39	0.50
1:E:159:ASP:O	1:E:177:ALA:HA	2.12	0.50
1:F:220:GLN:HG2	1:F:221:PRO:HD3	1.94	0.50
1:A:72:THR:HG23	1:A:74:GLN:N	2.08	0.50
1:C:137:HIS:CB	1:C:138:PRO:CA	2.86	0.50
1:D:169:ASP:O	1:D:171:VAL:HG12	2.12	0.50
1:A:199:GLN:CG	1:A:199:GLN:O	2.59	0.49
1:B:68:LEU:CD1	1:B:92:LEU:HD13	2.30	0.49
1:C:50:SER:HB2	1:C:79:TRP:CD1	2.47	0.49
1:C:152:TYR:CZ	1:C:223:ARG:HG3	2.47	0.49
1:F:7:LEU:O	1:F:9:HIS:HA	2.09	0.49
1:A:195:VAL:HG12	1:A:204:TRP:HE3	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:137:HIS:CD2	1:C:137:HIS:H	2.30	0.49
1:E:22:SER:OG	1:E:31:THR:HG22	2.12	0.49
1:F:106:GLY:O	1:F:107:LEU:CB	2.57	0.49
1:B:34:SER:OG	1:D:151:PRO:HD3	2.12	0.49
1:D:151:PRO:HB3	1:D:167:ARG:HG2	1.93	0.49
1:D:161:ASN:CA	1:D:176:THR:HG22	2.36	0.49
1:E:63:GLN:HB2	1:E:67:LEU:O	2.11	0.49
1:F:188:GLN:HE21	1:F:189:PRO:CD	2.25	0.49
1:C:4:LEU:HD13	1:C:14:PRO:HB2	1.94	0.49
1:E:9:HIS:HD2	1:E:10:GLU:HB2	1.76	0.49
1:F:217:PHE:HZ	1:F:225:LEU:HD22	1.77	0.49
1:B:110:SER:HB3	1:B:112:THR:CG2	2.43	0.49
1:B:194:ASP:C	1:B:194:ASP:OD1	2.50	0.49
1:C:190:ASN:OD1	1:C:209:SER:HB2	2.13	0.49
1:D:70:ILE:HG22	1:D:79:TRP:N	2.27	0.49
1:D:197:THR:O	1:D:199:GLN:O	2.30	0.49
1:D:204:TRP:CD2	1:D:205:THR:N	2.81	0.49
1:E:72:THR:HG23	1:E:73:ALA:H	1.77	0.49
1:F:63:GLN:HE21	1:F:69:VAL:CG2	2.25	0.49
1:A:4:LEU:HD23	1:A:5:PHE:N	2.27	0.49
1:A:160:CYS:SG	1:A:203:VAL:HG11	2.52	0.49
1:B:132:GLN:HE21	1:B:214:ARG:NH1	2.09	0.49
1:A:195:VAL:HG13	1:A:204:TRP:HB3	1.91	0.49
1:B:220:GLN:O	1:B:221:PRO:C	2.54	0.49
1:D:50:SER:O	1:D:51:ASN:CB	2.57	0.49
1:D:63:GLN:CG	1:D:64:SER:N	2.75	0.49
1:D:189:PRO:CD	1:D:190:ASN:N	2.70	0.49
1:A:90:TYR:HB3	1:A:91:VAL:O	2.12	0.49
1:A:170:ARG:NH1	1:A:173:SER:HB3	2.28	0.49
1:A:220:GLN:HB3	1:A:222:ASP:H	1.76	0.49
1:D:29:ARG:O	1:D:40:LEU:HD12	2.11	0.49
1:E:12:SER:HB3	1:E:221:PRO:HG2	1.92	0.49
1:A:39:VAL:HG22	1:A:49:ALA:CB	2.40	0.49
1:A:164:LEU:HD11	1:A:225:LEU:HD21	1.93	0.49
1:B:23:LEU:H	1:B:30:PHE:HB3	1.77	0.49
1:C:217:PHE:CA	1:C:227:ILE:CG2	2.85	0.49
1:E:62:LEU:HD21	1:E:90:TYR:HB3	1.95	0.49
1:E:72:THR:HG23	1:E:73:ALA:CB	2.43	0.49
1:F:142:HIS:N	1:F:145:GLN:HB2	2.28	0.49
1:A:19:ALA:O	1:A:20:ALA:CB	2.61	0.49
1:A:214:ARG:C	1:A:215:TYR:HD2	2.21	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:47:VAL:O	1:C:48:TRP:HB2	2.12	0.49
1:D:67:LEU:HD22	1:D:80:SER:OG	2.12	0.49
1:D:87:ILE:HG22	1:D:88:GLY:N	2.27	0.49
1:D:110:SER:HB2	1:D:112:THR:OG1	2.13	0.49
1:E:8:SER:HB3	1:E:9:HIS:ND1	2.28	0.49
1:C:185:ALA:HA	1:C:195:VAL:HA	1.93	0.48
1:E:92:LEU:HG	1:E:100:VAL:HG13	1.93	0.48
1:E:161:ASN:HD21	1:E:175:ASN:H	1.61	0.48
1:E:232:LEU:O	1:E:233:TRP:CB	2.60	0.48
1:F:50:SER:HB3	1:F:52:THR:OG1	2.11	0.48
1:A:75:ASN:HB2	1:D:188:GLN:NE2	2.28	0.48
1:B:132:GLN:O	1:B:132:GLN:HG3	2.12	0.48
1:C:30:PHE:CB	1:C:40:LEU:HB2	2.42	0.48
1:C:150:SER:HB3	1:C:151:PRO:HD3	1.94	0.48
1:D:107:LEU:CD1	1:D:209:SER:HA	2.43	0.48
1:E:102:ILE:HD12	1:E:233:TRP:CE3	2.47	0.48
1:E:161:ASN:HD22	1:E:176:THR:H	1.60	0.48
1:A:18:HIS:HB3	1:A:19:ALA:HB3	1.95	0.48
1:A:52:THR:CG2	1:A:79:TRP:HB2	2.43	0.48
1:B:94:LEU:HB2	1:B:100:VAL:CG1	2.41	0.48
1:F:225:LEU:HD12	1:F:225:LEU:N	2.28	0.48
1:A:142:HIS:O	1:A:156:MET:HG3	2.13	0.48
1:A:190:ASN:HB2	1:A:210:ARG:O	2.13	0.48
1:A:217:PHE:HD1	1:A:227:ILE:HG22	1.78	0.48
1:B:3:ILE:HG21	1:B:3:ILE:HD12	1.57	0.48
1:C:22:SER:OG	1:C:31:THR:HB	2.14	0.48
1:D:197:THR:HG22	1:D:199:GLN:N	2.26	0.48
1:E:32:MET:HG2	1:E:60:ALA:HB2	1.95	0.48
1:E:107:LEU:CD1	1:E:208:ASN:HB2	2.43	0.48
1:B:62:LEU:HG	1:B:63:GLN:N	2.25	0.48
1:B:129:TYR:HD2	1:B:215:TYR:O	1.96	0.48
1:B:189:PRO:CD	1:B:190:ASN:H	2.25	0.48
1:F:61:VAL:HG12	1:F:62:LEU:N	2.28	0.48
1:F:129:TYR:O	1:F:130:SER:OG	2.28	0.48
1:B:186:VAL:O	1:B:194:ASP:CB	2.61	0.48
1:B:193:MET:HG3	1:B:204:TRP:CZ3	2.49	0.48
1:B:194:ASP:OD1	1:B:195:VAL:N	2.47	0.48
1:C:29:ARG:NH2	1:C:31:THR:HG21	2.24	0.48
1:D:165:PHE:HD2	1:D:170:ARG:CA	2.25	0.48
1:E:81:SER:OG	1:E:82:GLY:N	2.46	0.48
1:F:63:GLN:O	1:F:64:SER:C	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:142:HIS:HD2	1:F:145:GLN:CD	2.22	0.48
1:F:224:ASN:O	1:F:225:LEU:CD1	2.52	0.48
1:A:5:PHE:CE2	1:A:220:GLN:NE2	2.81	0.48
1:D:215:TYR:CE1	1:D:229:GLY:HA3	2.49	0.48
1:F:105:PRO:O	1:F:228:TYR:HA	2.14	0.48
1:C:102:ILE:HD13	1:C:102:ILE:N	2.28	0.48
1:C:176:THR:HG22	1:C:203:VAL:HG13	1.95	0.48
1:E:39:VAL:HG11	1:E:41:PHE:CE1	2.49	0.48
1:E:163:VAL:HG22	1:E:165:PHE:CE2	2.48	0.48
1:F:217:PHE:CZ	1:F:225:LEU:CD2	2.94	0.48
1:B:40:LEU:O	1:B:40:LEU:HG	2.13	0.48
1:D:82:GLY:O	1:D:83:THR:O	2.31	0.48
1:D:187:LEU:HD22	1:D:217:PHE:HB2	1.95	0.48
1:D:217:PHE:HZ	1:D:225:LEU:CD1	2.20	0.48
1:E:166:ASP:O	1:E:167:ARG:C	2.57	0.48
1:F:199:GLN:O	1:F:200:ASN:HB2	2.14	0.48
1:A:102:ILE:O	1:A:231:ALA:HA	2.13	0.48
1:B:200:ASN:N	1:B:200:ASN:HD22	1.99	0.48
1:C:138:PRO:C	1:C:140:THR:H	2.20	0.48
1:F:70:ILE:HG22	1:F:78:ARG:HB2	1.96	0.48
1:F:190:ASN:OD1	1:F:190:ASN:C	2.57	0.48
1:A:176:THR:O	1:A:176:THR:CG2	2.61	0.47
1:B:72:THR:HG21	1:B:76:THR:HG23	1.94	0.47
1:B:163:VAL:H	1:B:163:VAL:HG13	1.37	0.47
1:D:188:GLN:NE2	1:D:194:ASP:OD2	2.47	0.47
1:F:193:MET:O	1:F:204:TRP:CZ3	2.66	0.47
1:A:44:ASP:O	1:A:45:VAL:C	2.56	0.47
1:B:60:ALA:HB2	1:B:70:ILE:HD11	1.96	0.47
1:C:119:VAL:HG12	1:C:120:VAL:H	1.78	0.47
1:D:30:PHE:CD1	1:D:30:PHE:C	2.84	0.47
1:D:64:SER:OG	1:D:64:SER:C	2.56	0.47
1:D:162:LEU:CB	1:D:174:THR:OG1	2.62	0.47
1:E:110:SER:OG	1:E:225:LEU:CB	2.60	0.47
1:F:188:GLN:HG3	1:F:189:PRO:HD2	1.96	0.47
1:A:48:TRP:CE2	1:A:235:THR:HG22	2.50	0.47
1:A:156:MET:HA	1:A:156:MET:CE	2.40	0.47
1:A:192:ARG:HD2	1:A:205:THR:OG1	2.13	0.47
1:A:220:GLN:HG2	1:A:221:PRO:CD	2.44	0.47
1:C:8:SER:HB2	1:C:9:HIS:HB2	1.95	0.47
1:D:2:ASN:HD22	1:D:2:ASN:N	2.12	0.47
1:F:16:THR:CG2	1:F:61:VAL:H	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:106:GLY:O	1:F:107:LEU:HB2	2.13	0.47
1:F:161:ASN:HD22	1:F:161:ASN:HA	1.35	0.47
1:F:195:VAL:CG1	1:F:204:TRP:HB3	2.40	0.47
1:A:97:ASP:OD1	1:A:99:THR:HB	2.15	0.47
1:B:192:ARG:HB3	1:B:206:SER:OG	2.14	0.47
1:B:195:VAL:HG12	1:B:203:VAL:CG1	2.44	0.47
1:C:203:VAL:HG12	1:C:204:TRP:N	2.29	0.47
1:D:129:TYR:HE1	1:D:131:THR:CB	2.26	0.47
1:F:95:GLN:O	1:F:97:ASP:N	2.48	0.47
1:A:193:MET:HG3	1:A:204:TRP:HZ3	1.79	0.47
1:D:182:GLY:HA3	1:D:198:ASN:N	2.30	0.47
1:E:17:LEU:H	1:E:61:VAL:H	1.62	0.47
1:E:37:ASN:OD1	1:E:51:ASN:CA	2.63	0.47
1:A:161:ASN:ND2	1:A:175:ASN:N	2.62	0.47
1:B:65:ASP:O	1:B:66:GLY:C	2.56	0.47
1:D:55:ALA:HB1	1:D:56:THR:H	1.56	0.47
1:D:70:ILE:HG22	1:D:79:TRP:H	1.79	0.47
1:E:142:HIS:HB2	1:E:145:GLN:OE1	2.14	0.47
1:E:182:GLY:HA3	1:E:198:ASN:CA	2.45	0.47
1:A:119:VAL:HG21	1:A:151:PRO:HG3	1.96	0.47
1:A:163:VAL:HB	1:A:173:SER:OG	2.14	0.47
1:A:192:ARG:HG3	1:A:209:SER:HB3	1.97	0.47
1:B:30:PHE:HD1	1:B:31:THR:N	2.12	0.47
1:B:90:TYR:CD1	1:B:90:TYR:N	2.82	0.47
1:C:23:LEU:O	1:C:30:PHE:N	2.48	0.47
1:C:157:GLU:HG2	1:C:163:VAL:HG13	1.97	0.47
1:C:210:ARG:HB3	1:C:211:SER:H	1.37	0.47
1:D:137:HIS:CB	1:D:138:PRO:C	2.88	0.47
1:E:158:THR:HB	1:F:152:TYR:CZ	2.49	0.47
1:E:159:ASP:N	1:F:151:PRO:HG3	2.29	0.47
1:F:56:THR:HG23	1:F:57:GLY:N	2.28	0.47
1:F:125:ASN:HA	1:F:147:LEU:HG	1.95	0.47
1:F:172:TRP:CH2	1:F:174:THR:HG23	2.49	0.47
1:F:186:VAL:HG22	1:F:194:ASP:CB	2.45	0.47
1:F:187:LEU:HD22	1:F:217:PHE:HB2	1.97	0.47
1:A:25:LEU:HD13	1:A:25:LEU:HA	1.81	0.47
1:A:109:ASP:HB3	1:A:226:ALA:HB2	1.97	0.47
1:A:163:VAL:HG21	1:A:165:PHE:CZ	2.48	0.47
1:B:151:PRO:HD3	1:D:34:SER:HB2	1.86	0.47
1:B:163:VAL:HG23	1:B:164:LEU:N	2.30	0.47
1:B:172:TRP:CE3	1:B:172:TRP:C	2.93	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:220:GLN:HB3	1:B:221:PRO:HD3	1.97	0.47
1:D:204:TRP:C	1:D:205:THR:HG22	2.40	0.47
1:A:146:SER:HA	1:A:154:LEU:O	2.14	0.47
1:C:139:GLN:O	1:C:140:THR:HB	2.15	0.47
1:C:217:PHE:CA	1:C:227:ILE:HG22	2.42	0.47
1:D:146:SER:OG	1:D:155:SER:HB2	2.15	0.47
1:E:97:ASP:O	1:E:98:ARG:CB	2.63	0.47
1:F:60:ALA:HB2	1:F:70:ILE:HD11	1.96	0.47
1:B:86:SER:HB2	1:B:90:TYR:OH	2.15	0.47
1:C:38:LEU:HD22	1:C:60:ALA:HB2	1.97	0.47
1:C:142:HIS:CD2	1:C:145:GLN:OE1	2.68	0.47
1:E:30:PHE:CE2	1:E:92:LEU:HD11	2.50	0.47
1:F:25:LEU:N	1:F:94:LEU:HD21	2.30	0.47
1:F:30:PHE:CD1	1:F:39:VAL:O	2.68	0.47
1:F:68:LEU:HD23	1:F:68:LEU:C	2.38	0.47
1:F:180:GLY:O	1:F:181:THR:HB	2.14	0.47
1:A:60:ALA:O	1:A:69:VAL:O	2.33	0.46
1:B:225:LEU:O	1:B:226:ALA:CB	2.56	0.46
1:D:72:THR:HG22	1:D:74:GLN:CB	2.45	0.46
1:E:87:ILE:O	1:E:88:GLY:O	2.33	0.46
1:E:107:LEU:O	1:E:208:ASN:ND2	2.48	0.46
1:F:227:ILE:O	1:F:227:ILE:HG12	2.04	0.46
1:A:72:THR:HG22	1:A:76:THR:CA	2.44	0.46
1:A:101:THR:C	1:A:102:ILE:HG13	2.32	0.46
1:A:101:THR:CG2	1:A:103:TYR:CZ	2.97	0.46
1:A:119:VAL:CG2	1:A:150:SER:OG	2.63	0.46
1:B:152:TYR:OH	1:B:221:PRO:O	2.33	0.46
1:D:64:SER:O	1:D:87:ILE:O	2.33	0.46
1:D:102:ILE:HD12	1:D:233:TRP:CE3	2.50	0.46
1:D:184:ARG:HG2	1:D:184:ARG:NH1	2.30	0.46
1:E:27:SER:HB2	1:F:34:SER:HG	1.81	0.46
1:E:32:MET:O	1:E:32:MET:SD	2.73	0.46
1:C:8:SER:CB	1:C:9:HIS:HB2	2.44	0.46
1:E:104:GLY:HA2	1:E:105:PRO:O	2.15	0.46
1:E:193:MET:CG	1:E:204:TRP:HZ3	2.28	0.46
1:F:63:GLN:O	1:F:65:ASP:N	2.48	0.46
1:B:37:ASN:HD22	1:B:53:ALA:N	2.13	0.46
1:B:188:GLN:CB	1:B:189:PRO:HD3	2.43	0.46
1:C:40:LEU:HD22	1:C:100:VAL:HG23	1.98	0.46
1:C:48:TRP:CD2	1:C:49:ALA:N	2.83	0.46
1:D:195:VAL:HG13	1:D:204:TRP:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:29:ARG:NH2	1:E:31:THR:HG21	2.30	0.46
1:F:6:GLY:HA2	1:F:62:LEU:O	2.15	0.46
1:A:146:SER:O	1:A:147:LEU:O	2.34	0.46
1:B:164:LEU:CD1	1:B:171:VAL:HG22	2.45	0.46
1:C:36:CYS:HB3	1:C:78:ARG:HH11	1.80	0.46
1:E:110:SER:HB2	1:E:112:THR:HG23	1.97	0.46
1:E:158:THR:C	1:F:151:PRO:CG	2.82	0.46
1:E:171:VAL:HG22	1:E:172:TRP:N	2.31	0.46
1:E:215:TYR:HE1	1:E:229:GLY:HA2	1.77	0.46
1:F:128:LEU:HA	1:F:129:TYR:CG	2.51	0.46
1:B:6:GLY:HA2	1:B:62:LEU:HD23	1.97	0.46
1:D:45:VAL:CA	1:D:46:ARG:HG3	2.46	0.46
1:D:110:SER:CB	1:D:112:THR:OG1	2.64	0.46
1:D:205:THR:O	1:D:206:SER:C	2.59	0.46
1:E:118:VAL:HG13	1:E:221:PRO:HB2	1.98	0.46
1:F:137:HIS:N	1:F:137:HIS:CD2	2.83	0.46
1:B:17:LEU:H	1:B:61:VAL:N	2.13	0.46
1:B:210:ARG:C	1:B:211:SER:O	2.53	0.46
1:C:29:ARG:HH21	1:C:31:THR:HG23	1.74	0.46
1:D:71:LEU:CD2	1:D:77:ILE:HG13	2.46	0.46
1:D:90:TYR:HE2	1:D:232:LEU:HD22	1.80	0.46
1:E:4:LEU:CD1	1:E:5:PHE:N	2.61	0.46
1:E:52:THR:HB	1:E:78:ARG:HD3	1.97	0.46
1:E:194:ASP:HB3	1:E:196:LEU:CD1	2.45	0.46
1:F:90:TYR:CE2	1:F:104:GLY:HA3	2.51	0.46
1:A:106:GLY:HA2	1:A:228:TYR:HA	1.98	0.46
1:A:119:VAL:HB	1:A:150:SER:OG	2.16	0.46
1:B:190:ASN:C	1:B:190:ASN:OD1	2.58	0.46
1:C:74:GLN:HG2	1:F:189:PRO:HB2	1.95	0.46
1:D:161:ASN:HD21	1:D:175:ASN:CA	2.29	0.46
1:E:224:ASN:HD22	1:E:224:ASN:HA	1.41	0.46
1:B:93:VAL:HG23	1:B:94:LEU:N	2.31	0.46
1:C:215:TYR:CD2	1:C:215:TYR:N	2.77	0.46
1:F:28:PHE:HB3	1:F:94:LEU:CD1	2.43	0.46
1:F:32:MET:HE2	1:F:37:ASN:O	2.16	0.46
1:F:163:VAL:HG21	1:F:165:PHE:CZ	2.51	0.46
1:A:72:THR:CG2	1:A:76:THR:OG1	2.64	0.46
1:A:95:GLN:HA	1:A:96:PRO:HD3	1.85	0.46
1:D:223:ARG:C	1:D:224:ASN:HD22	2.24	0.46
1:E:207:GLY:C	1:E:208:ASN:O	2.50	0.46
1:F:17:LEU:O	1:F:60:ALA:N	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:33:GLN:HE21	1:C:33:GLN:HB2	1.17	0.45
1:D:181:THR:O	1:D:183:CYS:N	2.49	0.45
1:E:71:LEU:HA	1:E:71:LEU:HD23	1.75	0.45
1:E:113:SER:HB3	1:E:114:ASN:H	1.65	0.45
1:E:193:MET:H	1:E:206:SER:CB	2.29	0.45
1:F:23:LEU:HD23	1:F:23:LEU:HA	1.57	0.45
1:F:217:PHE:HZ	1:F:225:LEU:HD23	1.74	0.45
1:B:18:HIS:HB2	1:B:21:GLN:HG3	1.98	0.45
1:B:103:TYR:CE1	1:B:216:VAL:HB	2.51	0.45
1:D:67:LEU:HD13	1:D:69:VAL:HG13	1.98	0.45
1:D:68:LEU:HD23	1:D:79:TRP:HZ3	1.81	0.45
1:F:99:THR:O	1:F:99:THR:HG23	2.16	0.45
1:A:112:THR:H	1:A:224:ASN:ND2	2.14	0.45
1:A:187:LEU:HD12	1:A:191:GLY:HA2	1.98	0.45
1:B:193:MET:N	1:B:206:SER:HB3	2.31	0.45
1:D:62:LEU:O	1:D:63:GLN:O	2.34	0.45
1:E:172:TRP:CG	1:E:173:SER:N	2.84	0.45
1:F:127:ILE:C	1:F:128:LEU:O	2.54	0.45
1:B:216:VAL:O	1:B:217:PHE:CB	2.58	0.45
1:D:4:LEU:HD22	1:D:17:LEU:HD21	1.98	0.45
1:E:23:LEU:O	1:E:29:ARG:HA	2.17	0.45
1:E:158:THR:O	1:E:159:ASP:C	2.40	0.45
1:F:17:LEU:HA	1:F:17:LEU:HD23	1.74	0.45
1:F:192:ARG:HA	1:F:206:SER:OG	2.16	0.45
1:A:150:SER:OG	1:A:151:PRO:HD3	2.17	0.45
1:B:132:GLN:CG	1:B:214:ARG:HH12	2.28	0.45
1:D:129:TYR:CD2	1:D:215:TYR:O	2.68	0.45
1:F:28:PHE:HE2	1:F:42:ASP:OD2	1.99	0.45
1:F:184:ARG:HB2	1:F:185:ALA:H	1.20	0.45
1:B:60:ALA:HB2	1:B:70:ILE:HD12	1.98	0.45
1:C:143:ALA:HA	1:C:156:MET:O	2.16	0.45
1:D:166:ASP:HB2	1:D:171:VAL:HG11	1.99	0.45
1:A:223:ARG:NH1	1:A:223:ARG:HB3	2.25	0.45
1:C:78:ARG:HH11	1:C:78:ARG:HD2	1.39	0.45
1:C:137:HIS:HB3	1:C:138:PRO:C	2.42	0.45
1:E:129:TYR:CD1	1:E:129:TYR:C	2.95	0.45
1:E:149:LEU:CD1	1:E:221:PRO:HA	2.47	0.45
1:E:193:MET:HE2	1:E:217:PHE:CE1	2.52	0.45
1:E:211:SER:O	1:E:212:ALA:C	2.57	0.45
1:F:31:THR:CG2	1:F:39:VAL:O	2.64	0.45
1:B:48:TRP:CE2	1:B:235:THR:HG21	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:92:LEU:CD2	1:C:100:VAL:HG13	2.44	0.45
1:D:23:LEU:HD12	1:D:30:PHE:HD2	1.81	0.45
1:E:142:HIS:H	1:E:145:GLN:HB3	1.82	0.45
1:E:78:ARG:O	1:E:79:TRP:HB2	2.16	0.45
1:E:95:GLN:HE21	1:E:95:GLN:HB2	1.45	0.45
1:E:119:VAL:CG2	1:E:151:PRO:CD	2.95	0.45
1:B:65:ASP:OD1	1:B:65:ASP:N	2.40	0.45
1:B:161:ASN:HD22	1:B:161:ASN:HA	1.46	0.45
1:C:9:HIS:HB3	1:C:10:GLU:H	1.58	0.45
1:D:201:ILE:HD13	1:D:201:ILE:HG23	1.73	0.45
1:E:162:LEU:HD12	1:E:174:THR:CG2	2.47	0.45
1:F:44:ASP:O	1:F:45:VAL:HG23	2.17	0.45
1:F:176:THR:CG2	1:F:203:VAL:HG22	2.47	0.45
1:B:106:GLY:O	1:B:107:LEU:CB	2.61	0.44
1:B:208:ASN:HB2	1:B:209:SER:H	1.40	0.44
1:D:19:ALA:O	1:D:32:MET:O	2.35	0.44
1:D:31:THR:O	1:D:38:LEU:HD12	2.16	0.44
1:E:153:ARG:NH2	1:E:165:PHE:CE1	2.82	0.44
1:F:18:HIS:O	1:F:32:MET:CB	2.65	0.44
1:F:197:THR:HG21	1:F:201:ILE:CD1	2.42	0.44
1:A:48:TRP:CE3	1:A:49:ALA:HA	2.53	0.44
1:B:5:PHE:HE2	1:B:220:GLN:NE2	2.15	0.44
1:B:63:GLN:HE22	1:B:69:VAL:HG22	1.82	0.44
1:C:32:MET:HE3	1:C:59:ARG:HA	1.98	0.44
1:C:76:THR:O	1:C:77:ILE:C	2.59	0.44
1:D:52:THR:HG21	1:D:79:TRP:HB2	1.99	0.44
1:D:112:THR:HG21	1:D:172:TRP:HB2	1.99	0.44
1:F:215:TYR:N	1:F:215:TYR:CD2	2.84	0.44
1:B:9:HIS:HB2	1:B:10:GLU:HB2	1.99	0.44
1:B:162:LEU:HD23	1:B:162:LEU:HA	1.73	0.44
1:D:81:SER:OG	1:D:82:GLY:N	2.50	0.44
1:D:190:ASN:OD1	1:D:190:ASN:C	2.60	0.44
1:E:29:ARG:HH21	1:E:31:THR:HG23	1.82	0.44
1:E:30:PHE:CD1	1:E:100:VAL:HG21	2.52	0.44
1:F:42:ASP:OD2	1:F:98:ARG:NH1	2.43	0.44
1:A:3:ILE:H	1:A:3:ILE:HG22	1.22	0.44
1:A:232:LEU:O	1:A:233:TRP:HB2	2.17	0.44
1:D:150:SER:HB3	1:D:151:PRO:HD2	1.97	0.44
1:D:193:MET:HA	1:D:193:MET:CE	2.47	0.44
1:D:217:PHE:CZ	1:D:225:LEU:CD1	2.96	0.44
1:F:159:ASP:OD2	1:F:161:ASN:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:53:ALA:C	1:A:78:ARG:HH12	2.26	0.44
1:A:116:GLY:O	1:A:118:VAL:HG23	2.18	0.44
1:B:35:ASP:CG	1:B:53:ALA:HB1	2.43	0.44
1:B:139:GLN:HE21	1:B:139:GLN:HB2	1.48	0.44
1:C:92:LEU:HA	1:C:102:ILE:HA	1.99	0.44
1:C:137:HIS:H	1:C:137:HIS:HD2	1.63	0.44
1:A:96:PRO:HG2	1:A:136:ASN:HA	1.99	0.44
1:A:150:SER:H	1:A:152:TYR:HB2	1.83	0.44
1:B:10:GLU:OE2	1:B:222:ASP:OD2	2.36	0.44
1:C:25:LEU:O	1:C:28:PHE:N	2.47	0.44
1:C:38:LEU:O	1:C:39:VAL:HG23	2.18	0.44
1:C:74:GLN:H	1:F:189:PRO:HG2	1.67	0.44
1:D:2:ASN:HB2	1:D:94:LEU:HB3	1.99	0.44
1:E:61:VAL:CG2	1:E:62:LEU:H	2.25	0.44
1:F:180:GLY:O	1:F:181:THR:CB	2.60	0.44
1:A:101:THR:HG22	1:A:103:TYR:CE1	2.52	0.44
1:B:86:SER:HB3	1:B:87:ILE:H	1.06	0.44
1:D:150:SER:N	1:D:152:TYR:H	2.10	0.44
1:E:69:VAL:HG23	1:E:70:ILE:C	2.43	0.44
1:F:146:SER:O	1:F:147:LEU:C	2.60	0.44
1:F:217:PHE:CD2	1:F:218:VAL:N	2.86	0.44
1:C:193:MET:N	1:C:206:SER:HB3	2.28	0.44
1:E:21:GLN:HE21	1:E:21:GLN:HB2	1.18	0.44
1:E:130:SER:HA	1:E:139:GLN:OE1	2.17	0.44
1:A:112:THR:OG1	1:A:223:ARG:O	2.36	0.44
1:A:143:ALA:C	1:A:144:THR:HG23	2.43	0.44
1:A:176:THR:HG23	1:A:176:THR:O	2.18	0.44
1:A:199:GLN:HG2	1:A:201:ILE:HD12	1.99	0.44
1:B:63:GLN:HE21	1:B:63:GLN:HB2	1.26	0.44
1:C:156:MET:C	1:C:157:GLU:O	2.60	0.44
1:D:162:LEU:HA	1:D:162:LEU:HD23	1.72	0.44
1:E:200:ASN:N	1:E:200:ASN:ND2	2.64	0.44
1:B:222:ASP:CG	1:B:224:ASN:OD1	2.61	0.43
1:C:205:THR:O	1:C:206:SER:C	2.57	0.43
1:D:33:GLN:HB2	1:D:37:ASN:O	2.18	0.43
1:D:204:TRP:CG	1:D:205:THR:H	2.36	0.43
1:E:29:ARG:NH2	1:E:41:PHE:CD1	2.86	0.43
1:E:163:VAL:HB	1:E:173:SER:OG	2.17	0.43
1:E:172:TRP:CH2	1:E:174:THR:HG22	2.53	0.43
1:E:179:LYS:NZ	1:E:203:VAL:HG13	2.32	0.43
1:E:223:ARG:CG	1:E:223:ARG:HH11	2.29	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2:ASN:OD1	1:F:2:ASN:C	2.58	0.43
1:F:174:THR:HG22	1:F:204:TRP:NE1	2.33	0.43
1:A:147:LEU:HA	1:A:147:LEU:HD12	1.79	0.43
1:C:81:SER:O	1:C:82:GLY:C	2.58	0.43
1:C:233:TRP:CE3	1:C:233:TRP:C	2.96	0.43
1:E:32:MET:O	1:E:33:GLN:C	2.60	0.43
1:F:127:ILE:HG21	1:F:127:ILE:HD13	1.74	0.43
1:F:152:TYR:HD2	1:F:166:ASP:HB2	1.83	0.43
1:A:65:ASP:N	1:A:65:ASP:OD1	2.51	0.43
1:A:75:ASN:HD22	1:D:196:LEU:CD1	2.31	0.43
1:A:193:MET:H	1:A:206:SER:HB3	1.83	0.43
1:C:48:TRP:CG	1:C:49:ALA:N	2.86	0.43
1:C:83:THR:HG22	1:C:84:LYS:N	2.25	0.43
1:C:155:SER:O	1:C:163:VAL:N	2.45	0.43
1:C:188:GLN:HA	1:C:189:PRO:HD3	1.77	0.43
1:C:205:THR:O	1:C:205:THR:CG2	2.53	0.43
1:D:50:SER:O	1:D:51:ASN:HB3	2.18	0.43
1:E:26:SER:HG	1:F:34:SER:H	1.67	0.43
1:E:72:THR:CG2	1:E:74:GLN:H	2.31	0.43
1:E:141:LEU:CD1	1:E:147:LEU:HD23	2.48	0.43
1:E:179:LYS:HZ3	1:E:203:VAL:HG13	1.83	0.43
1:A:50:SER:O	1:A:51:ASN:CB	2.64	0.43
1:B:153:ARG:HG3	1:B:165:PHE:HB2	2.01	0.43
1:B:210:ARG:HG3	1:B:211:SER:H	1.84	0.43
1:D:63:GLN:HB3	1:D:67:LEU:H	1.83	0.43
1:D:113:SER:OG	1:D:114:ASN:N	2.50	0.43
1:D:161:ASN:HD21	1:D:175:ASN:N	2.17	0.43
1:F:185:ALA:O	1:F:186:VAL:CG1	2.66	0.43
1:F:210:ARG:O	1:F:211:SER:C	2.58	0.43
1:B:129:TYR:CD1	1:B:131:THR:N	2.87	0.43
1:C:74:GLN:HG3	1:C:74:GLN:H	1.47	0.43
1:C:113:SER:HA	1:C:222:ASP:HB2	2.01	0.43
1:D:164:LEU:C	1:D:164:LEU:CD2	2.91	0.43
1:D:164:LEU:HA	1:D:164:LEU:HD23	1.71	0.43
1:E:9:HIS:CD2	1:E:10:GLU:HB2	2.52	0.43
1:E:150:SER:C	1:E:152:TYR:H	2.25	0.43
1:A:224:ASN:HD22	1:A:224:ASN:HA	1.37	0.43
1:B:35:ASP:O	1:B:53:ALA:HA	2.19	0.43
1:B:164:LEU:HD12	1:B:172:TRP:HB3	2.01	0.43
1:B:193:MET:HG3	1:B:204:TRP:HZ3	1.83	0.43
1:C:35:ASP:O	1:C:36:CYS:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:67:LEU:HD22	1:C:80:SER:OG	2.18	0.43
1:D:187:LEU:CD2	1:D:217:PHE:CB	2.96	0.43
1:E:91:VAL:HG21	1:E:228:TYR:CD2	2.53	0.43
1:B:156:MET:HE1	1:B:195:VAL:HG13	2.01	0.43
1:B:157:GLU:HG3	1:B:161:ASN:CB	2.40	0.43
1:B:193:MET:CG	1:B:204:TRP:CZ3	3.02	0.43
1:C:95:GLN:NE2	1:C:99:THR:HG22	2.33	0.43
1:C:95:GLN:C	1:C:97:ASP:H	2.25	0.43
1:F:44:ASP:O	1:F:45:VAL:CB	2.66	0.43
1:F:166:ASP:O	1:F:167:ARG:O	2.36	0.43
1:F:186:VAL:HG22	1:F:194:ASP:HB3	2.00	0.43
1:B:168:ASP:O	1:B:169:ASP:CB	2.64	0.43
1:E:26:SER:HG	1:F:33:GLN:CG	2.31	0.43
1:E:87:ILE:HA	1:E:87:ILE:HD12	1.82	0.43
1:E:189:PRO:O	1:E:213:GLY:O	2.37	0.43
1:F:77:ILE:HG21	1:F:77:ILE:HD13	1.73	0.43
1:F:154:LEU:CG	1:F:225:LEU:HD21	2.49	0.43
1:F:208:ASN:OD1	1:F:208:ASN:N	2.50	0.43
1:A:19:ALA:O	1:A:20:ALA:HB2	2.19	0.43
1:A:217:PHE:CD1	1:A:227:ILE:HG22	2.53	0.43
1:B:92:LEU:HA	1:B:102:ILE:HG13	2.01	0.43
1:D:153:ARG:HH21	1:D:165:PHE:HE1	1.67	0.43
1:E:158:THR:OG1	1:F:151:PRO:CG	2.56	0.43
1:E:159:ASP:HB2	1:E:177:ALA:HB1	2.01	0.43
1:E:232:LEU:O	1:E:233:TRP:HB2	2.19	0.43
1:A:6:GLY:O	1:A:7:LEU:C	2.62	0.42
1:B:29:ARG:NH2	1:B:41:PHE:CE1	2.87	0.42
1:B:201:ILE:O	1:B:202:ALA:HB2	2.19	0.42
1:C:50:SER:O	1:C:51:ASN:C	2.60	0.42
1:C:68:LEU:O	1:C:79:TRP:HZ3	2.02	0.42
1:C:107:LEU:O	1:C:107:LEU:HD12	2.19	0.42
1:D:46:ARG:O	1:D:47:VAL:HG13	2.19	0.42
1:D:83:THR:O	1:D:84:LYS:CB	2.38	0.42
1:F:18:HIS:O	1:F:32:MET:HB3	2.18	0.42
1:B:110:SER:O	1:B:112:THR:HG22	2.18	0.42
1:D:166:ASP:O	1:D:167:ARG:C	2.46	0.42
1:E:154:LEU:HD23	1:E:225:LEU:HD11	2.00	0.42
1:A:128:LEU:O	1:A:129:TYR:CD2	2.72	0.42
1:B:129:TYR:O	1:B:187:LEU:O	2.37	0.42
1:B:174:THR:OG1	1:B:176:THR:HB	2.19	0.42
1:B:220:GLN:CB	1:B:221:PRO:HD2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:49:ALA:O	1:C:50:SER:O	2.38	0.42
1:C:52:THR:HG21	1:C:79:TRP:CB	2.48	0.42
1:C:71:LEU:HA	1:C:71:LEU:HD23	1.71	0.42
1:C:101:THR:HG21	1:C:103:TYR:CE1	2.54	0.42
1:C:174:THR:HB	1:C:204:TRP:CG	2.55	0.42
1:D:217:PHE:CD2	1:D:218:VAL:N	2.88	0.42
1:E:154:LEU:CD1	1:E:154:LEU:C	2.93	0.42
1:F:7:LEU:O	1:F:8:SER:C	2.50	0.42
1:F:16:THR:CG2	1:F:17:LEU:N	2.70	0.42
1:B:152:TYR:HE1	1:B:220:GLN:O	2.03	0.42
1:B:205:THR:O	1:B:206:SER:C	2.61	0.42
1:B:210:ARG:CG	1:B:211:SER:H	2.32	0.42
1:C:61:VAL:HG12	1:C:62:LEU:H	1.78	0.42
1:C:73:ALA:HB1	1:F:189:PRO:CB	2.47	0.42
1:F:199:GLN:O	1:F:200:ASN:CB	2.67	0.42
1:A:50:SER:O	1:A:51:ASN:HB2	2.20	0.42
1:B:163:VAL:HG12	1:B:173:SER:OG	2.19	0.42
1:C:27:SER:O	1:C:28:PHE:C	2.54	0.42
1:C:41:PHE:HD2	1:C:45:VAL:H	1.67	0.42
1:C:221:PRO:O	1:C:223:ARG:N	2.52	0.42
1:E:158:THR:OG1	1:F:151:PRO:HD3	2.17	0.42
1:F:7:LEU:H	1:F:7:LEU:HG	1.37	0.42
1:F:16:THR:HG23	1:F:61:VAL:N	2.34	0.42
1:F:30:PHE:CE1	1:F:38:LEU:HG	2.54	0.42
1:A:151:PRO:HD2	1:A:152:TYR:CG	2.55	0.42
1:B:77:ILE:O	1:B:78:ARG:HD2	2.20	0.42
1:B:208:ASN:N	1:B:208:ASN:OD1	2.52	0.42
1:C:127:ILE:HA	1:C:138:PRO:HG2	2.00	0.42
1:E:142:HIS:HB2	1:E:145:GLN:CG	2.50	0.42
1:F:195:VAL:O	1:F:196:LEU:C	2.62	0.42
1:A:48:TRP:CG	1:A:235:THR:HG22	2.55	0.42
1:C:188:GLN:C	1:C:190:ASN:HB3	2.45	0.42
1:D:153:ARG:O	1:D:164:LEU:HD23	2.19	0.42
1:E:217:PHE:HA	1:E:227:ILE:HB	2.01	0.42
1:A:70:ILE:O	1:A:78:ARG:N	2.48	0.42
1:A:109:ASP:HB2	1:A:110:SER:H	1.66	0.42
1:C:231:ALA:O	1:C:232:LEU:C	2.63	0.42
1:D:11:GLY:O	1:D:13:HIS:N	2.52	0.42
1:D:56:THR:HG22	1:D:57:GLY:CA	2.49	0.42
1:E:100:VAL:N	1:E:235:THR:HG21	2.31	0.42
1:F:143:ALA:CA	1:F:156:MET:O	2.65	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:74:GLN:HA	1:D:189:PRO:HD3	2.02	0.42
1:B:154:LEU:HD21	1:B:225:LEU:HD11	2.02	0.42
1:D:223:ARG:HH11	1:D:223:ARG:CG	2.27	0.42
1:E:199:GLN:CA	1:E:199:GLN:HE21	2.33	0.42
1:E:219:LEU:HA	1:E:219:LEU:HD12	1.65	0.42
1:F:29:ARG:O	1:F:41:PHE:N	2.40	0.42
1:A:128:LEU:HD11	2:A:244:HOH:O	2.19	0.42
1:D:67:LEU:HD13	1:D:69:VAL:CG1	2.50	0.42
1:D:166:ASP:OD2	1:D:223:ARG:HD2	2.19	0.42
1:A:160:CYS:O	1:A:160:CYS:SG	2.77	0.41
1:B:59:ARG:NH2	1:B:71:LEU:CD1	2.83	0.41
1:B:220:GLN:HB2	1:B:221:PRO:HD2	2.02	0.41
1:C:171:VAL:O	1:C:171:VAL:HG23	2.19	0.41
1:C:183:CYS:HB3	1:C:196:LEU:O	2.20	0.41
1:C:195:VAL:HG22	1:C:203:VAL:HG12	2.02	0.41
1:D:160:CYS:O	1:D:176:THR:CG2	2.67	0.41
1:D:197:THR:O	1:D:199:GLN:N	2.53	0.41
1:E:24:GLU:HG2	1:E:29:ARG:HB3	2.01	0.41
1:E:102:ILE:HD12	1:E:233:TRP:HE3	1.85	0.41
1:C:112:THR:C	1:C:113:SER:O	2.57	0.41
1:D:85:GLY:O	1:D:86:SER:O	2.38	0.41
1:F:97:ASP:N	1:F:97:ASP:OD1	2.52	0.41
1:A:92:LEU:HG	1:A:100:VAL:HG12	2.01	0.41
1:A:161:ASN:HD21	1:A:175:ASN:CA	2.34	0.41
1:B:143:ALA:C	1:B:145:GLN:N	2.77	0.41
1:C:130:SER:H	1:C:131:THR:HG23	1.85	0.41
1:C:142:HIS:O	1:C:156:MET:HG3	2.20	0.41
1:C:210:ARG:NH1	1:C:229:GLY:O	2.54	0.41
1:D:95:GLN:HG2	1:D:128:LEU:HD23	2.03	0.41
1:F:95:GLN:HE21	1:F:99:THR:HG21	1.83	0.41
1:F:183:CYS:HA	1:F:196:LEU:O	2.20	0.41
1:A:35:ASP:OD1	1:A:35:ASP:C	2.64	0.41
1:B:48:TRP:CZ2	1:B:235:THR:HG21	2.55	0.41
1:E:165:PHE:CE2	1:E:170:ARG:HG3	2.50	0.41
1:F:65:ASP:OD1	1:F:67:LEU:HD13	2.20	0.41
1:F:76:THR:O	1:F:76:THR:OG1	2.29	0.41
1:F:85:GLY:O	1:F:86:SER:O	2.39	0.41
1:F:87:ILE:HG23	1:F:88:GLY:H	1.68	0.41
1:F:95:GLN:HE21	1:F:99:THR:HG23	1.85	0.41
1:C:23:LEU:HD23	1:C:23:LEU:HA	1.37	0.41
1:C:73:ALA:HB1	1:F:189:PRO:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:35:ASP:O	1:E:37:ASN:N	2.54	0.41
1:F:142:HIS:CD2	1:F:142:HIS:H	2.39	0.41
1:A:25:LEU:N	1:A:94:LEU:HD23	2.35	0.41
1:A:161:ASN:HA	1:A:176:THR:HG22	2.03	0.41
1:B:16:THR:HG22	1:B:59:ARG:HG3	2.01	0.41
1:B:39:VAL:CG1	1:B:40:LEU:N	2.81	0.41
1:D:142:HIS:HB2	1:D:145:GLN:CB	2.51	0.41
1:D:162:LEU:N	1:D:174:THR:OG1	2.37	0.41
1:D:174:THR:HB	1:D:176:THR:HB	2.03	0.41
1:D:189:PRO:HD2	1:D:190:ASN:H	1.86	0.41
1:E:18:HIS:H	1:E:21:GLN:CB	2.34	0.41
1:F:40:LEU:HD12	1:F:40:LEU:HA	1.44	0.41
1:F:217:PHE:CE2	1:F:225:LEU:HB3	2.56	0.41
1:C:25:LEU:HD13	1:C:25:LEU:HA	1.75	0.41
1:C:137:HIS:HB2	1:C:138:PRO:HA	2.03	0.41
1:E:120:VAL:HG22	1:E:122:ASN:O	2.20	0.41
1:E:177:ALA:O	1:E:178:GLY:C	2.61	0.41
1:E:196:LEU:HD12	1:E:202:ALA:HB2	2.02	0.41
1:C:195:VAL:HG13	1:C:204:TRP:HE3	1.85	0.41
1:D:187:LEU:HD11	1:D:215:TYR:HB3	2.03	0.41
1:E:52:THR:HB	1:E:78:ARG:HH11	1.86	0.41
1:E:119:VAL:HG21	1:E:151:PRO:CD	2.47	0.41
1:E:120:VAL:HG23	1:E:149:LEU:CD2	2.50	0.41
1:F:204:TRP:CH2	1:F:206:SER:N	2.89	0.41
1:A:102:ILE:HB	1:A:232:LEU:HB3	2.03	0.41
1:A:124:GLY:HA2	1:A:125:ASN:ND2	2.35	0.41
1:A:124:GLY:HA2	1:A:125:ASN:HD22	1.86	0.41
1:A:156:MET:CE	1:A:156:MET:CA	2.99	0.41
1:A:172:TRP:O	1:A:173:SER:HB2	2.17	0.41
1:A:188:GLN:CG	1:A:189:PRO:CD	2.99	0.41
1:B:105:PRO:HD2	1:B:229:GLY:C	2.46	0.41
1:B:197:THR:H	1:B:197:THR:HG22	1.66	0.41
1:E:154:LEU:HD12	1:E:154:LEU:C	2.44	0.41
1:E:182:GLY:HA3	1:E:198:ASN:N	2.35	0.41
1:E:216:VAL:O	1:E:216:VAL:CG1	2.59	0.41
1:F:19:ALA:O	1:F:32:MET:O	2.39	0.41
1:F:76:THR:O	1:F:77:ILE:HB	2.08	0.41
1:F:161:ASN:HD21	1:F:176:THR:N	2.14	0.41
1:A:42:ASP:C	1:A:43:SER:HG	2.29	0.41
1:A:72:THR:CG2	1:A:76:THR:H	1.94	0.41
1:A:179:LYS:HE3	1:A:203:VAL:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:69:VAL:H	1:C:69:VAL:HG22	1.69	0.41
1:C:72:THR:HG22	1:C:72:THR:H	1.51	0.41
1:C:104:GLY:HA2	1:C:105:PRO:O	2.21	0.41
1:C:210:ARG:HH11	1:C:210:ARG:HD2	1.61	0.41
1:D:215:TYR:O	1:D:216:VAL:CB	2.69	0.41
1:E:17:LEU:HA	1:E:17:LEU:HD23	1.66	0.41
1:E:65:ASP:OD1	1:E:65:ASP:C	2.63	0.41
1:A:3:ILE:CD1	1:A:218:VAL:HG11	2.50	0.40
1:A:166:ASP:OD2	1:A:223:ARG:HD2	2.20	0.40
1:B:22:SER:CA	1:B:31:THR:HA	2.40	0.40
1:C:87:ILE:CG2	1:C:88:GLY:N	2.84	0.40
1:C:127:ILE:HG23	1:C:217:PHE:HB3	1.96	0.40
1:D:187:LEU:CD1	1:D:227:ILE:HD12	2.51	0.40
1:A:28:PHE:N	1:A:28:PHE:CD2	2.88	0.40
1:A:196:LEU:CD1	1:A:202:ALA:CB	2.95	0.40
1:C:35:ASP:O	1:C:36:CYS:CB	2.69	0.40
1:D:78:ARG:O	1:D:79:TRP:HB2	2.21	0.40
1:D:233:TRP:CG	1:D:234:THR:N	2.85	0.40
1:E:9:HIS:C	1:E:10:GLU:O	2.57	0.40
1:E:129:TYR:HE1	1:E:131:THR:N	2.18	0.40
1:F:44:ASP:OD1	1:F:45:VAL:N	2.54	0.40
1:A:4:LEU:CD1	1:A:17:LEU:HD21	2.51	0.40
1:A:42:ASP:C	1:A:43:SER:OG	2.63	0.40
1:A:153:ARG:NH1	1:A:165:PHE:CD1	2.89	0.40
1:B:149:LEU:HD12	1:B:219:LEU:HG	2.04	0.40
1:C:92:LEU:HD23	1:C:92:LEU:C	2.45	0.40
1:D:128:LEU:O	1:D:129:TYR:CD2	2.75	0.40
1:B:187:LEU:HD22	1:B:217:PHE:HB2	2.04	0.40
1:C:87:ILE:O	1:C:88:GLY:C	2.63	0.40
1:D:225:LEU:HD23	1:D:225:LEU:HA	1.60	0.40
1:F:143:ALA:O	1:F:144:THR:HG22	2.22	0.40
1:B:220:GLN:HA	1:B:221:PRO:HD3	1.76	0.40
1:C:193:MET:O	1:C:206:SER:N	2.38	0.40
1:E:125:ASN:C	1:E:147:LEU:HD11	2.46	0.40
1:F:191:GLY:HA2	1:F:227:ILE:CD1	2.51	0.40

There are no symmetry-related clashes.

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	A	229/236 (97%)	158 (69%)	41 (18%)	30 (13%)	0	1
1	B	213/236 (90%)	132 (62%)	42 (20%)	39 (18%)	0	0
1	C	230/236 (98%)	150 (65%)	42 (18%)	38 (16%)	0	1
1	D	217/236 (92%)	148 (68%)	30 (14%)	39 (18%)	0	0
1	E	227/236 (96%)	150 (66%)	39 (17%)	38 (17%)	0	1
1	F	208/236 (88%)	138 (66%)	37 (18%)	33 (16%)	0	1
All	All	1324/1416 (94%)	876 (66%)	231 (17%)	217 (16%)	0	1

All (217) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	10	GLU
1	A	11	GLY
1	A	14	PRO
1	A	19	ALA
1	A	20	ALA
1	A	34	SER
1	A	45	VAL
1	A	61	VAL
1	A	73	ALA
1	A	77	ILE
1	A	88	GLY
1	A	105	PRO
1	A	119	VAL
1	A	120	VAL
1	A	122	ASN
1	A	138	PRO
1	A	198	ASN
1	A	206	SER
1	A	207	GLY
1	A	231	ALA

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Mol	Chain	Res	Type
1	B	7	LEU
1	B	12	SER
1	B	43	SER
1	B	45	VAL
1	B	56	THR
1	B	77	ILE
1	B	81	SER
1	B	86	SER
1	B	87	ILE
1	B	105	PRO
1	B	130	SER
1	B	143	ALA
1	B	144	THR
1	B	147	LEU
1	B	150	SER
1	B	167	ARG
1	B	189	PRO
1	B	196	LEU
1	B	198	ASN
1	B	200	ASN
1	B	201	ILE
1	B	203	VAL
1	C	9	HIS
1	C	26	SER
1	C	36	CYS
1	C	52	THR
1	C	74	GLN
1	C	77	ILE
1	C	88	GLY
1	C	105	PRO
1	C	117	SER
1	C	119	VAL
1	C	120	VAL
1	C	122	ASN
1	C	130	SER
1	C	146	SER
1	C	150	SER
1	C	157	GLU
1	C	167	ARG
1	C	168	ASP
1	C	176	THR
1	C	200	ASN

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Mol	Chain	Res	Type
1	C	207	GLY
1	C	222	ASP
1	D	7	LEU
1	D	9	HIS
1	D	27	SER
1	D	43	SER
1	D	45	VAL
1	D	61	VAL
1	D	63	GLN
1	D	83	THR
1	D	84	LYS
1	D	88	GLY
1	D	125	ASN
1	D	129	TYR
1	D	130	SER
1	D	143	ALA
1	D	147	LEU
1	D	157	GLU
1	D	159	ASP
1	D	169	ASP
1	D	170	ARG
1	D	177	ALA
1	D	179	LYS
1	D	188	GLN
1	D	230	GLY
1	E	7	LEU
1	E	9	HIS
1	E	10	GLU
1	E	12	SER
1	E	13	HIS
1	E	14	PRO
1	E	33	GLN
1	E	36	CYS
1	E	45	VAL
1	E	65	ASP
1	E	86	SER
1	E	88	GLY
1	E	117	SER
1	E	118	VAL
1	E	120	VAL
1	E	129	TYR
1	E	130	SER

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Mol	Chain	Res	Type
1	E	143	ALA
1	E	159	ASP
1	E	160	CYS
1	E	167	ARG
1	E	168	ASP
1	E	183	CYS
1	E	231	ALA
1	F	8	SER
1	F	9	HIS
1	F	14	PRO
1	F	27	SER
1	F	45	VAL
1	F	87	ILE
1	F	125	ASN
1	F	130	SER
1	F	147	LEU
1	F	160	CYS
1	F	194	ASP
1	F	196	LEU
1	F	198	ASN
1	F	200	ASN
1	F	231	ALA
1	A	26	SER
1	A	191	GLY
1	A	232	LEU
1	B	27	SER
1	B	49	ALA
1	B	61	VAL
1	B	83	THR
1	B	107	LEU
1	B	111	GLY
1	B	159	ASP
1	B	188	GLN
1	B	223	ARG
1	B	231	ALA
1	C	27	SER
1	C	45	VAL
1	C	49	ALA
1	C	50	SER
1	C	61	VAL
1	C	73	ALA
1	C	125	ASN

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Mol	Chain	Res	Type
1	D	8	SER
1	D	13	HIS
1	D	77	ILE
1	D	107	LEU
1	D	167	ARG
1	D	168	ASP
1	D	202	ALA
1	E	27	SER
1	E	61	VAL
1	E	147	LEU
1	E	150	SER
1	E	209	SER
1	E	229	GLY
1	E	232	LEU
1	F	7	LEU
1	F	26	SER
1	F	43	SER
1	F	61	VAL
1	F	75	ASN
1	F	81	SER
1	F	88	GLY
1	F	107	LEU
1	F	150	SER
1	F	168	ASP
1	F	190	ASN
1	F	224	ASN
1	A	129	TYR
1	A	150	SER
1	A	167	ARG
1	B	168	ASP
1	C	140	THR
1	C	170	ARG
1	C	177	ALA
1	C	221	PRO
1	D	44	ASP
1	D	86	SER
1	D	150	SER
1	D	189	PRO
1	E	107	LEU
1	E	138	PRO
1	E	181	THR
1	F	129	TYR

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Mol	Chain	Res	Type
1	F	225	LEU
1	A	9	HIS
1	A	220	GLN
1	B	11	GLY
1	B	36	CYS
1	B	95	GLN
1	B	229	GLY
1	C	10	GLU
1	C	87	ILE
1	C	147	LEU
1	D	144	THR
1	E	79	TRP
1	E	114	ASN
1	F	189	PRO
1	F	211	SER
1	A	168	ASP
1	B	170	ARG
1	B	191	GLY
1	D	28	PHE
1	D	97	ASP
1	D	182	GLY
1	E	211	SER
1	F	64	SER
1	C	189	PRO
1	E	43	SER
1	A	178	GLY
1	D	14	PRO
1	C	118	VAL
1	F	96	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	A	197/198 (100%)	94 (48%)	103 (52%)	0 0
1	B	187/198 (94%)	88 (47%)	99 (53%)	0 0

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C	195/198 (98%)	101 (52%)	94 (48%)	0	0
1	D	187/198 (94%)	96 (51%)	91 (49%)	0	0
1	E	194/198 (98%)	109 (56%)	85 (44%)	0	0
1	F	183/198 (92%)	102 (56%)	81 (44%)	0	0
All	All	1143/1188 (96%)	590 (52%)	553 (48%)	0	0

All (553) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	4	LEU
1	A	5	PHE
1	A	8	SER
1	A	10	GLU
1	A	12	SER
1	A	14	PRO
1	A	17	LEU
1	A	22	SER
1	A	24	GLU
1	A	25	LEU
1	A	27	SER
1	A	30	PHE
1	A	31	THR
1	A	32	MET
1	A	33	GLN
1	A	34	SER
1	A	37	ASN
1	A	38	LEU
1	A	43	SER
1	A	47	VAL
1	A	50	SER
1	A	51	ASN
1	A	52	THR
1	A	56	THR
1	A	58	CYS
1	A	59	ARG
1	A	61	VAL
1	A	63	GLN
1	A	68	LEU
1	A	69	VAL
1	A	71	LEU
1	A	74	GLN

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Mol	Chain	Res	Type
1	A	77	ILE
1	A	84	LYS
1	A	87	ILE
1	A	91	VAL
1	A	92	LEU
1	A	93	VAL
1	A	94	LEU
1	A	99	THR
1	A	100	VAL
1	A	105	PRO
1	A	107	LEU
1	A	108	TRP
1	A	109	ASP
1	A	110	SER
1	A	115	LYS
1	A	119	VAL
1	A	120	VAL
1	A	122	ASN
1	A	125	ASN
1	A	129	TYR
1	A	131	THR
1	A	136	ASN
1	A	138	PRO
1	A	141	LEU
1	A	144	THR
1	A	147	LEU
1	A	149	LEU
1	A	154	LEU
1	A	155	SER
1	A	156	MET
1	A	157	GLU
1	A	158	THR
1	A	162	LEU
1	A	163	VAL
1	A	164	LEU
1	A	167	ARG
1	A	168	ASP
1	A	169	ASP
1	A	170	ARG
1	A	171	VAL
1	A	173	SER
1	A	174	THR

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Mol	Chain	Res	Type
1	A	175	ASN
1	A	176	THR
1	A	179	LYS
1	A	181	THR
1	A	183	CYS
1	A	186	VAL
1	A	187	LEU
1	A	188	GLN
1	A	192	ARG
1	A	195	VAL
1	A	196	LEU
1	A	200	ASN
1	A	201	ILE
1	A	203	VAL
1	A	205	THR
1	A	206	SER
1	A	208	ASN
1	A	210	ARG
1	A	215	TYR
1	A	216	VAL
1	A	218	VAL
1	A	220	GLN
1	A	221	PRO
1	A	222	ASP
1	A	223	ARG
1	A	224	ASN
1	A	227	ILE
1	A	232	LEU
1	A	234	THR
1	B	1	ASN
1	B	2	ASN
1	B	3	ILE
1	B	8	SER
1	B	9	HIS
1	B	10	GLU
1	B	12	SER
1	B	16	THR
1	B	21	GLN
1	B	22	SER
1	B	23	LEU
1	B	24	GLU
1	B	29	ARG

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Mol	Chain	Res	Type
1	B	31	THR
1	B	32	MET
1	B	33	GLN
1	B	36	CYS
1	B	44	ASP
1	B	45	VAL
1	B	47	VAL
1	B	56	THR
1	B	58	CYS
1	B	61	VAL
1	B	63	GLN
1	B	64	SER
1	B	67	LEU
1	B	68	LEU
1	B	69	VAL
1	B	70	ILE
1	B	71	LEU
1	B	76	THR
1	B	78	ARG
1	B	83	THR
1	B	84	LYS
1	B	86	SER
1	B	87	ILE
1	B	90	TYR
1	B	92	LEU
1	B	93	VAL
1	B	94	LEU
1	B	97	ASP
1	B	98	ARG
1	B	102	ILE
1	B	105	PRO
1	B	107	LEU
1	B	112	THR
1	B	125	ASN
1	B	126	SER
1	B	127	ILE
1	B	129	TYR
1	B	130	SER
1	B	131	THR
1	B	132	GLN
1	B	140	THR
1	B	141	LEU

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Mol	Chain	Res	Type
1	B	144	THR
1	B	146	SER
1	B	147	LEU
1	B	148	GLN
1	B	149	LEU
1	B	151	PRO
1	B	153	ARG
1	B	154	LEU
1	B	155	SER
1	B	156	MET
1	B	158	THR
1	B	159	ASP
1	B	161	ASN
1	B	162	LEU
1	B	163	VAL
1	B	167	ARG
1	B	169	ASP
1	B	170	ARG
1	B	171	VAL
1	B	172	TRP
1	B	173	SER
1	B	181	THR
1	B	184	ARG
1	B	186	VAL
1	B	187	LEU
1	B	188	GLN
1	B	192	ARG
1	B	194	ASP
1	B	196	LEU
1	B	197	THR
1	B	205	THR
1	B	206	SER
1	B	209	SER
1	B	211	SER
1	B	216	VAL
1	B	218	VAL
1	B	220	GLN
1	B	222	ASP
1	B	227	ILE
1	B	228	TYR
1	B	232	LEU
1	B	233	TRP

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Mol	Chain	Res	Type
1	B	234	THR
1	B	235	THR
1	C	3	ILE
1	C	4	LEU
1	C	5	PHE
1	C	8	SER
1	C	9	HIS
1	C	10	GLU
1	C	12	SER
1	C	16	THR
1	C	17	LEU
1	C	22	SER
1	C	24	GLU
1	C	25	LEU
1	C	27	SER
1	C	30	PHE
1	C	31	THR
1	C	32	MET
1	C	33	GLN
1	C	40	LEU
1	C	43	SER
1	C	46	ARG
1	C	51	ASN
1	C	56	THR
1	C	59	ARG
1	C	61	VAL
1	C	62	LEU
1	C	63	GLN
1	C	67	LEU
1	C	72	THR
1	C	78	ARG
1	C	79	TRP
1	C	86	SER
1	C	87	ILE
1	C	89	ASN
1	C	91	VAL
1	C	92	LEU
1	C	93	VAL
1	C	95	GLN
1	C	96	PRO
1	C	101	THR
1	C	105	PRO

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Mol	Chain	Res	Type
1	C	110	SER
1	C	112	THR
1	C	113	SER
1	C	118	VAL
1	C	126	SER
1	C	127	ILE
1	C	130	SER
1	C	131	THR
1	C	136	ASN
1	C	137	HIS
1	C	139	GLN
1	C	144	THR
1	C	145	GLN
1	C	146	SER
1	C	147	LEU
1	C	149	LEU
1	C	150	SER
1	C	154	LEU
1	C	156	MET
1	C	159	ASP
1	C	160	CYS
1	C	161	ASN
1	C	162	LEU
1	C	163	VAL
1	C	164	LEU
1	C	167	ARG
1	C	171	VAL
1	C	173	SER
1	C	175	ASN
1	C	176	THR
1	C	183	CYS
1	C	184	ARG
1	C	186	VAL
1	C	192	ARG
1	C	193	MET
1	C	195	VAL
1	C	196	LEU
1	C	197	THR
1	C	199	GLN
1	C	200	ASN
1	C	201	ILE
1	C	203	VAL

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Mol	Chain	Res	Type
1	C	206	SER
1	C	211	SER
1	C	216	VAL
1	C	218	VAL
1	C	219	LEU
1	C	221	PRO
1	C	222	ASP
1	C	224	ASN
1	C	227	ILE
1	C	232	LEU
1	C	233	TRP
1	C	234	THR
1	D	2	ASN
1	D	3	ILE
1	D	4	LEU
1	D	12	SER
1	D	16	THR
1	D	17	LEU
1	D	23	LEU
1	D	25	LEU
1	D	29	ARG
1	D	32	MET
1	D	37	ASN
1	D	39	VAL
1	D	43	SER
1	D	44	ASP
1	D	46	ARG
1	D	47	VAL
1	D	48	TRP
1	D	50	SER
1	D	56	THR
1	D	58	CYS
1	D	61	VAL
1	D	63	GLN
1	D	65	ASP
1	D	67	LEU
1	D	68	LEU
1	D	70	ILE
1	D	71	LEU
1	D	72	THR
1	D	76	THR
1	D	78	ARG

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Mol	Chain	Res	Type
1	D	81	SER
1	D	83	THR
1	D	84	LYS
1	D	86	SER
1	D	87	ILE
1	D	92	LEU
1	D	93	VAL
1	D	95	GLN
1	D	101	THR
1	D	102	ILE
1	D	105	PRO
1	D	107	LEU
1	D	108	TRP
1	D	126	SER
1	D	127	ILE
1	D	128	LEU
1	D	129	TYR
1	D	137	HIS
1	D	138	PRO
1	D	147	LEU
1	D	148	GLN
1	D	149	LEU
1	D	153	ARG
1	D	154	LEU
1	D	155	SER
1	D	156	MET
1	D	157	GLU
1	D	158	THR
1	D	161	ASN
1	D	162	LEU
1	D	164	LEU
1	D	167	ARG
1	D	169	ASP
1	D	170	ARG
1	D	171	VAL
1	D	176	THR
1	D	181	THR
1	D	186	VAL
1	D	187	LEU
1	D	188	GLN
1	D	193	MET
1	D	195	VAL

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Mol	Chain	Res	Type
1	D	196	LEU
1	D	197	THR
1	D	200	ASN
1	D	201	ILE
1	D	203	VAL
1	D	204	TRP
1	D	205	THR
1	D	210	ARG
1	D	211	SER
1	D	214	ARG
1	D	216	VAL
1	D	217	PHE
1	D	219	LEU
1	D	222	ASP
1	D	223	ARG
1	D	224	ASN
1	D	227	ILE
1	D	233	TRP
1	D	234	THR
1	E	1	ASN
1	E	2	ASN
1	E	3	ILE
1	E	4	LEU
1	E	14	PRO
1	E	21	GLN
1	E	22	SER
1	E	23	LEU
1	E	25	LEU
1	E	27	SER
1	E	29	ARG
1	E	32	MET
1	E	34	SER
1	E	40	LEU
1	E	45	VAL
1	E	51	ASN
1	E	52	THR
1	E	56	THR
1	E	59	ARG
1	E	61	VAL
1	E	67	LEU
1	E	69	VAL
1	E	70	ILE

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Mol	Chain	Res	Type
1	E	72	THR
1	E	78	ARG
1	E	84	LYS
1	E	86	SER
1	E	87	ILE
1	E	89	ASN
1	E	91	VAL
1	E	92	LEU
1	E	93	VAL
1	E	96	PRO
1	E	101	THR
1	E	102	ILE
1	E	105	PRO
1	E	107	LEU
1	E	108	TRP
1	E	110	SER
1	E	115	LYS
1	E	119	VAL
1	E	120	VAL
1	E	123	ASN
1	E	125	ASN
1	E	127	ILE
1	E	128	LEU
1	E	129	TYR
1	E	131	THR
1	E	141	LEU
1	E	144	THR
1	E	146	SER
1	E	147	LEU
1	E	148	GLN
1	E	149	LEU
1	E	151	PRO
1	E	156	MET
1	E	158	THR
1	E	162	LEU
1	E	163	VAL
1	E	164	LEU
1	E	167	ARG
1	E	170	ARG
1	E	171	VAL
1	E	173	SER
1	E	189	PRO

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Mol	Chain	Res	Type
1	E	192	ARG
1	E	196	LEU
1	E	199	GLN
1	E	200	ASN
1	E	201	ILE
1	E	206	SER
1	E	208	ASN
1	E	210	ARG
1	E	211	SER
1	E	214	ARG
1	E	216	VAL
1	E	217	PHE
1	E	223	ARG
1	E	224	ASN
1	E	225	LEU
1	E	227	ILE
1	E	232	LEU
1	E	233	TRP
1	E	234	THR
1	E	235	THR
1	F	1	ASN
1	F	3	ILE
1	F	8	SER
1	F	10	GLU
1	F	12	SER
1	F	14	PRO
1	F	16	THR
1	F	23	LEU
1	F	25	LEU
1	F	26	SER
1	F	29	ARG
1	F	32	MET
1	F	33	GLN
1	F	37	ASN
1	F	38	LEU
1	F	43	SER
1	F	51	ASN
1	F	52	THR
1	F	61	VAL
1	F	62	LEU
1	F	63	GLN
1	F	67	LEU

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Mol	Chain	Res	Type
1	F	68	LEU
1	F	70	ILE
1	F	76	THR
1	F	78	ARG
1	F	81	SER
1	F	84	LYS
1	F	86	SER
1	F	87	ILE
1	F	90	TYR
1	F	92	LEU
1	F	94	LEU
1	F	100	VAL
1	F	101	THR
1	F	102	ILE
1	F	109	ASP
1	F	125	ASN
1	F	127	ILE
1	F	128	LEU
1	F	129	TYR
1	F	131	THR
1	F	138	PRO
1	F	140	THR
1	F	142	HIS
1	F	145	GLN
1	F	146	SER
1	F	148	GLN
1	F	150	SER
1	F	152	TYR
1	F	153	ARG
1	F	154	LEU
1	F	155	SER
1	F	157	GLU
1	F	160	CYS
1	F	161	ASN
1	F	162	LEU
1	F	163	VAL
1	F	164	LEU
1	F	166	ASP
1	F	169	ASP
1	F	171	VAL
1	F	174	THR
1	F	181	THR

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Mol	Chain	Res	Type
1	F	183	CYS
1	F	184	ARG
1	F	188	GLN
1	F	189	PRO
1	F	192	ARG
1	F	193	MET
1	F	195	VAL
1	F	204	TRP
1	F	208	ASN
1	F	210	ARG
1	F	211	SER
1	F	216	VAL
1	F	222	ASP
1	F	223	ARG
1	F	225	LEU
1	F	227	ILE
1	F	232	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (73) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	18	HIS
1	A	33	GLN
1	A	37	ASN
1	A	63	GLN
1	A	74	GLN
1	A	122	ASN
1	A	123	ASN
1	A	125	ASN
1	A	134	ASN
1	A	137	HIS
1	A	161	ASN
1	A	199	GLN
1	A	200	ASN
1	A	208	ASN
1	A	224	ASN
1	B	2	ASN
1	B	9	HIS
1	B	13	HIS
1	B	37	ASN
1	B	63	GLN
1	B	132	GLN

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Mol	Chain	Res	Type
1	B	139	GLN
1	B	142	HIS
1	B	161	ASN
1	B	188	GLN
1	B	200	ASN
1	B	220	GLN
1	C	21	GLN
1	C	33	GLN
1	C	51	ASN
1	C	74	GLN
1	C	75	ASN
1	C	89	ASN
1	C	114	ASN
1	C	125	ASN
1	C	136	ASN
1	C	137	HIS
1	C	142	HIS
1	C	161	ASN
1	C	208	ASN
1	C	224	ASN
1	D	2	ASN
1	D	33	GLN
1	D	37	ASN
1	D	63	GLN
1	D	161	ASN
1	D	188	GLN
1	D	200	ASN
1	D	220	GLN
1	D	224	ASN
1	E	21	GLN
1	E	63	GLN
1	E	95	GLN
1	E	137	HIS
1	E	142	HIS
1	E	161	ASN
1	E	198	ASN
1	E	199	GLN
1	E	200	ASN
1	E	208	ASN
1	E	224	ASN
1	F	13	HIS
1	F	18	HIS

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Mol	Chain	Res	Type
1	F	21	GLN
1	F	33	GLN
1	F	63	GLN
1	F	74	GLN
1	F	95	GLN
1	F	142	HIS
1	F	148	GLN
1	F	161	ASN
1	F	175	ASN
1	F	188	GLN

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
1	B	3
1	A	1

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Mol	Chain	Number of breaks
1	C	1
1	E	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	25:LEU	C	26:SER	N	1.19
1	B	8:SER	C	9:HIS	N	1.19
1	C	229:GLY	C	230:GLY	N	1.19
1	E	85:GLY	C	86:SER	N	1.19
1	B	30:PHE	C	31:THR	N	1.16
1	B	225:LEU	C	226:ALA	N	1.15

6 Fit of model and data

6.1 Protein, DNA and RNA chains

EDS was not executed - this section is therefore empty.

6.2 Non-standard residues in protein, DNA, RNA chains

EDS was not executed - this section is therefore empty.

6.3 Carbohydrates

EDS was not executed - this section is therefore empty.

6.4 Ligands

EDS was not executed - this section is therefore empty.

6.5 Other polymers

EDS was not executed - this section is therefore empty.