



Full wwPDB EM Validation Report ⓘ

Mar 10, 2026 – 10:59 AM UTC

PDB ID : 8QOX / pdb_00008qox
EMDB ID : EMD-18127
Title : Two-component assembly of SlaA and SlaB S-layer proteins of *Sulfolobus acidocaldarius*
Authors : Gambelli, L.; McLaren, M.; Isupov, M.; Conners, R.; Daum, B.
Deposited on : 2023-09-29
Resolution : 11.20 Å (reported)
Based on initial models : ., 7ZCX

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

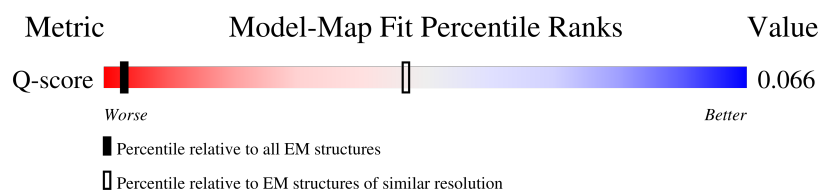
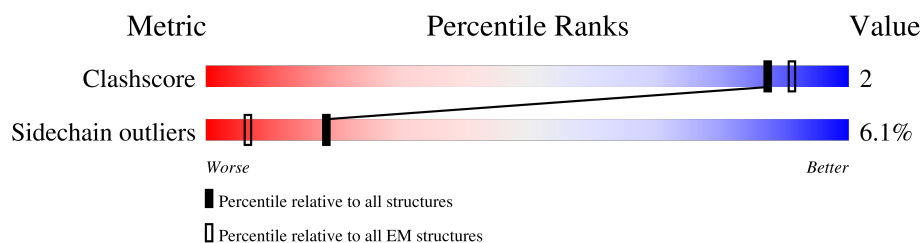
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 11.20 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	94 (10.70 - 11.70)

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

Mol	Chain	Length	Quality of chain
1	A	1424	
1	V	1424	
1	W	1424	
1	Z	1424	
2	B	475	

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Mol	Chain	Length	Quality of chain
2	C	475	36% 49% 40% 6% 5%
2	X	475	39% 47% 43% 5% 5%

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 51848 atoms, of which 0 are hydrogens and 0 are deuteriums.

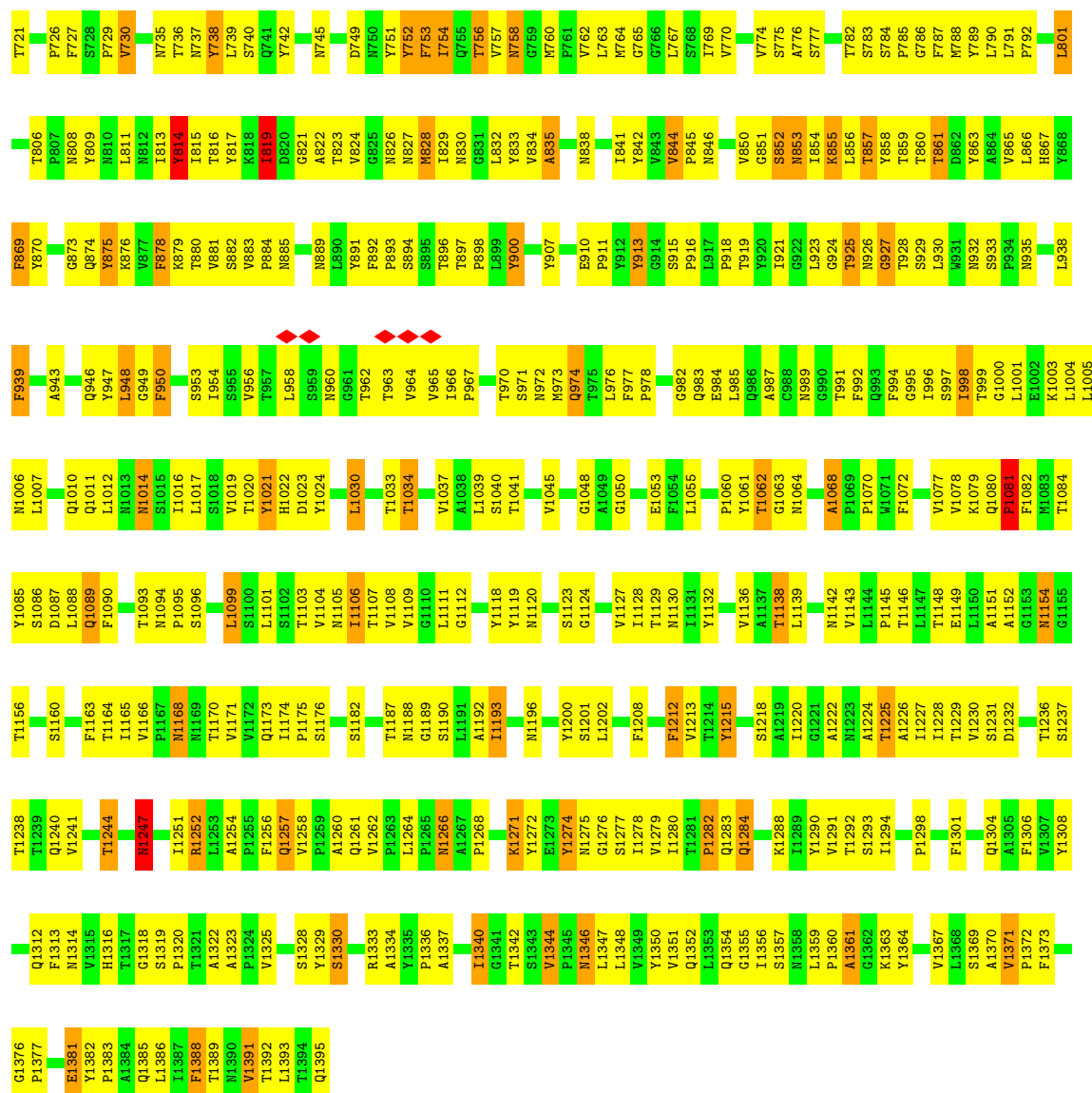
In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called S-layer protein A.

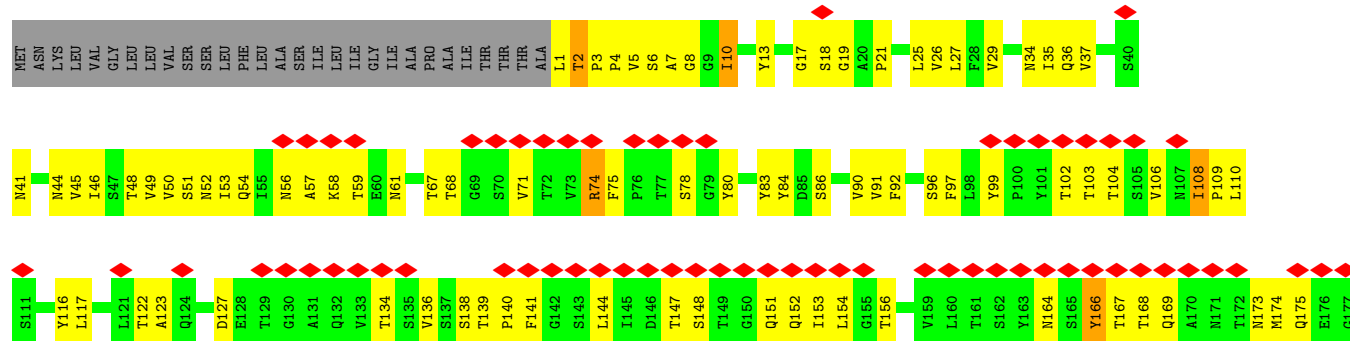
Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1395	Total	C	N	O	S	0	0
			10478	6781	1616	2065	16		
1	V	1395	Total	C	N	O	S	0	0
			10478	6781	1616	2065	16		
1	W	1395	Total	C	N	O	S	0	0
			10478	6781	1616	2065	16		
1	Z	1395	Total	C	N	O	S	0	0
			10478	6781	1616	2065	16		

- Molecule 2 is a protein called Conserved membrane protein.

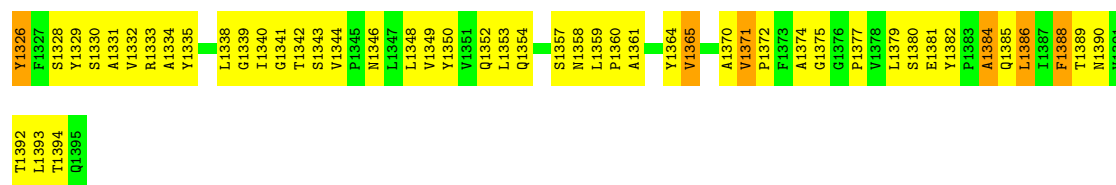
Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	451	Total	C	N	O	S	0	0
			3312	2091	541	676	4		
2	C	451	Total	C	N	O	S	0	0
			3312	2091	541	676	4		
2	X	451	Total	C	N	O	S	0	0
			3312	2091	541	676	4		



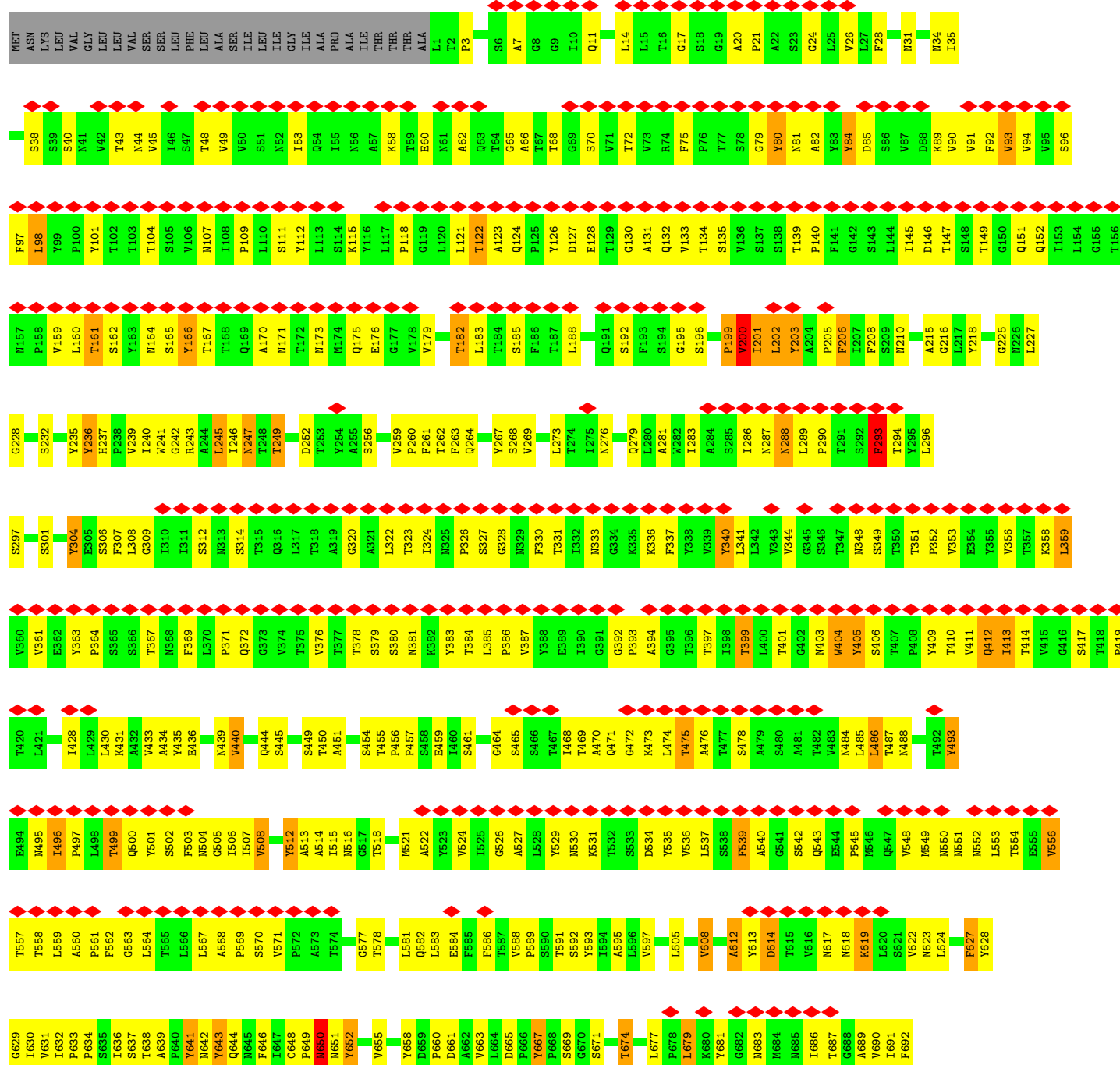
• Molecule 1: S-layer protein A

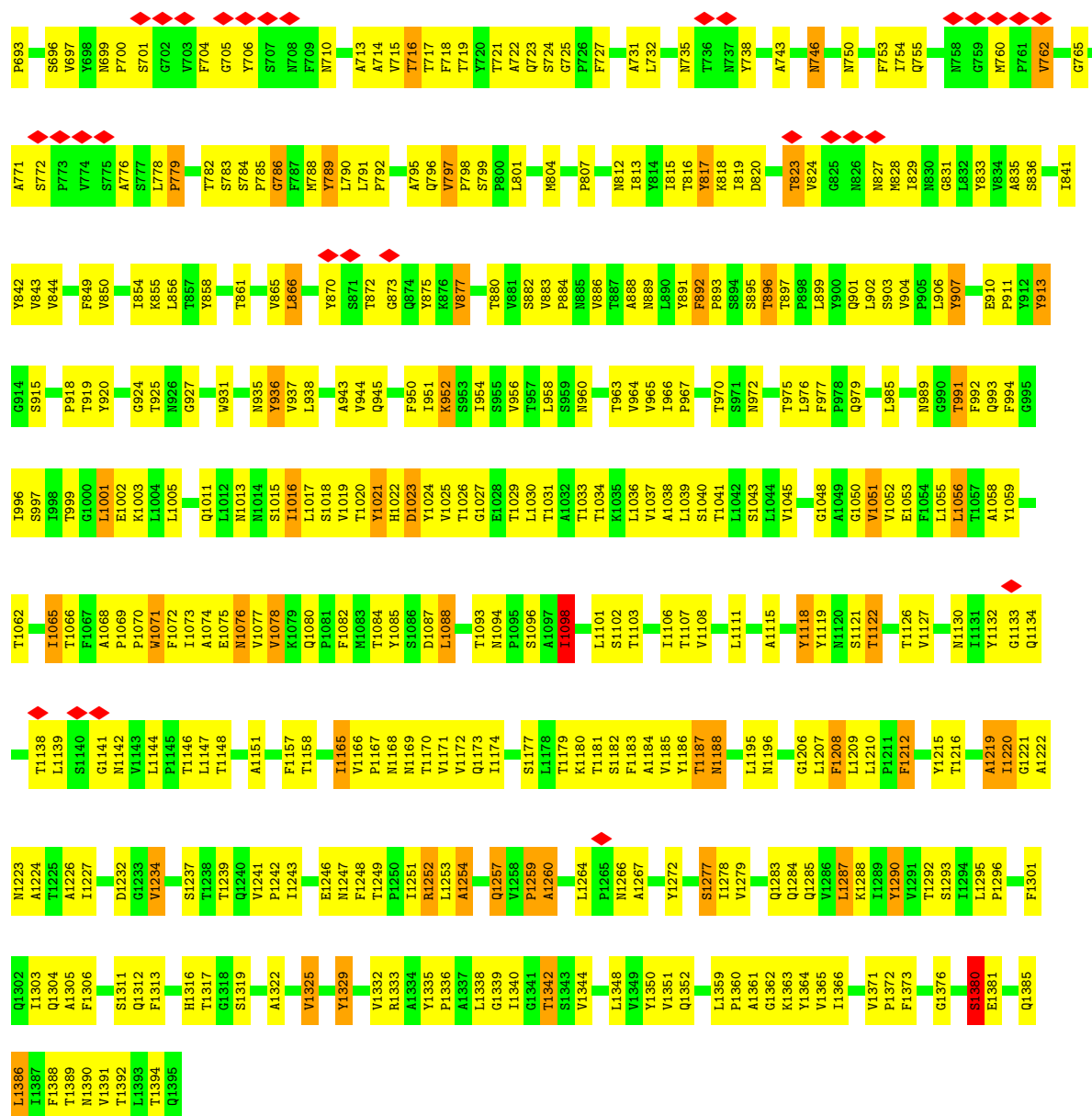


F1248	V1171	G1027	S1096	V877	V797	P729	T654	A568	N484	W404	N333	I251	V178
T1249	V1172	E1028	A1097	F878	P798	T733	V655	P569	T487	T407	G334	D252	V179
P1250	I1173	T1029	I1098	K879	L801	G734	T656	S570	T488	P408	K335	A255	G181
R1252	I1251	A1032	L1101	V881	A805	N735	D659	V571	A489	T409	K336	G257	L182
L1253	S1176	S955	S956	S882	T806	T736	D661	P580	A490	T410	Y337	G257	L183
A1254	S1177	T1033	T957	V883	P807	N737	D662	V588	L491	V411	Y338	G257	T184
P1255	L1178	K1035	L958	F884	N808	Y738	A662	P589	T492	T418	L342	Q264	S185
F1256	M1105	L1036	S959	N885	N810	L739	V663	P589	Y493	T419	V343	L265	F186
P1259	V1108	V1037	T962	V886	N810	T741	L664	Y593	E494	T420	G344	Y267	T187
A1260	V1182	A1038	T962	T887	N810	Q741	L664	Y593	E494	T421	G345	Y267	L188
L1264	V1185	S1040	T966	A888	Y817	Y742	S669	I594	L498	T422	S346	S268	F193
L1270	Y1187	T1041	P967	K818	K818	A743	G670	V597	T499	T423	T347	P270	
L1276	V1188	V1045	L968	F892	L819	D744	S671	D598	I507	Y424	S349	G271	T197
G1276	G1189	V1118	T969	F893	D820	N746	T673	F599	V508	Y425	V350	P272	V198
S1277	Y1119	G1048	S971	S894	T823	D749	S676	T509	T509	Q426	T351	L273	P199
L1278	N1120	A1049	N972	T897	T823	Y750	L677	Y512	Y512	Q427	E354	T274	V200
G1281	G1124	E1053	L976	P898	N826	Y751	Y681	N516	N516	K431	E355	T275	I201
P1282	Q1125	F1054	L976	P898	N827	Y752	Y681	G603	G603	A432	Y356	M277	L202
S1283	Q1126	L1055	P978	Q901	M828	F753	N683	Y613	Y523	A433	V360	Q279	F206
Q1284	Y1127	L1056	P978	L902	I829	T754	N683	T615	V524	A434	V361	Q279	I207
Q1285	T1128	T1057	P981	L902	N830	Y755	I686	V616	I525	Y435	E362	Q279	F208
Q1286	T1129	A1058	Y981	P905	G831	T757	T687	N617	G526	G437	Y363	Q279	S209
Q1287	N1130	P1059	G982	L906	N826	Y757	T687	N618	Y529	I438	T367	Q279	S211
L1288	I1131	P1060	N983	Y907	N827	Y758	G682	K619	N530	A436	N368	Q279	P212
L1289	Q1134	Y1061	T991	P911	I841	T760	N688	G619	K531	G437	N369	Q279	Y213
Y1290	T1135	G1063	F992	S915	N844	Y770	N689	G623	T532	T442	L370	Q279	Q214
L1295	V1136	N1065	Q993	P916	N846	Y771	N690	L624	S533	S445	P371	Q279	A215
P1298	A1137	T1066	F994	S916	N847	Y772	N691	L624	S534	Y447	V374	Q279	P220
Q1299	T1138	F1067	S997	Y920	N848	Y773	N692	L624	S534	Y448	T377	Q279	P221
E1300	L1144	A1068	T999	I921	N849	Y774	N693	L624	S534	Y449	T378	Q279	N224
F1301	L1147	P1070	T999	G922	N850	Y775	N694	L624	S534	Y450	T379	Q279	G225
T1303	L1148	E1075	L1004	G924	N851	Y776	N695	L624	S534	A451	S380	Q279	N226
F1306	F1149	N1076	N1006	N926	N852	Y777	N696	L624	S534	A452	Y382	Q279	L227
Y1307	L1150	V1077	L1007	T928	N853	Y778	N697	L624	S534	T455	Y383	Q279	G228
Y1308	A1151	K1078	V1009	T928	N854	Y779	N698	L624	S534	T456	T384	Q279	L230
E1309	G1153	Q1080	Q1010	W931	N855	Y780	N699	L624	S534	T457	V387	Q279	Y235
A1226	G1153	P1081	M1013	N932	N856	Y781	N700	L624	S534	T458	Y388	Q279	H237
S1231	T1156	F1082	S1014	S933	N857	Y782	N701	L624	S534	T459	E389	Q279	Y236
D1232	F1157	M1083	S1015	P934	N858	Y783	N702	L624	S534	T460	N550	Q279	H237
G1233	T1158	T1084	L1016	N935	N859	Y784	N703	L624	S534	T461	I390	Q279	P238
V1234	G1159	Y1085	L1017	Y936	N860	Y785	N704	L624	S534	T462	G391	Q279	V239
S1239	Q1162	S1086	S1018	V937	N861	Y786	N705	L624	S534	T463	G392	Q279	L240
Q1240	F1163	D1087	V1019	L938	N862	Y787	N706	L624	S534	T464	G393	Q279	W241
P1241	T1164	L1088	T1020	F939	N863	Y788	N707	L624	S534	T465	N313	Q279	G242
P1242	T1165	Q1089	Y1021	G940	N864	Y789	N708	L624	S534	T466	T315	Q279	R243
L1243	P1167	F1090	H1022	N942	N865	Y790	N709	L624	S534	T467	T318	Q279	A244
A1322	N1168	D1023	D1023	N943	N866	Y791	N710	L624	S534	T468	T319	Q279	L245
P1324	N1169	Y1024	Y1024	N944	N867	Y792	N711	L624	S534	T469	L400	Q279	I246
N1247	T1170	P1095	T1026	Y947	N868	Y793	N712	L624	S534	T470	T401	Q279	N247
					N869	Y794	N713	L624	S534	T471	G402	Q279	T248
					N870	Y795	N714	L624	S534	T472	T331	Q279	T249
					N871	Y796	N715	L624	S534	T473	N403	Q279	L250

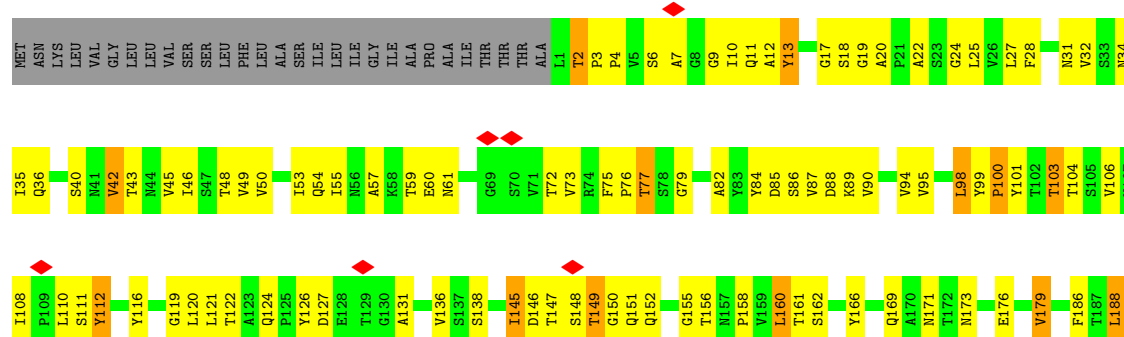


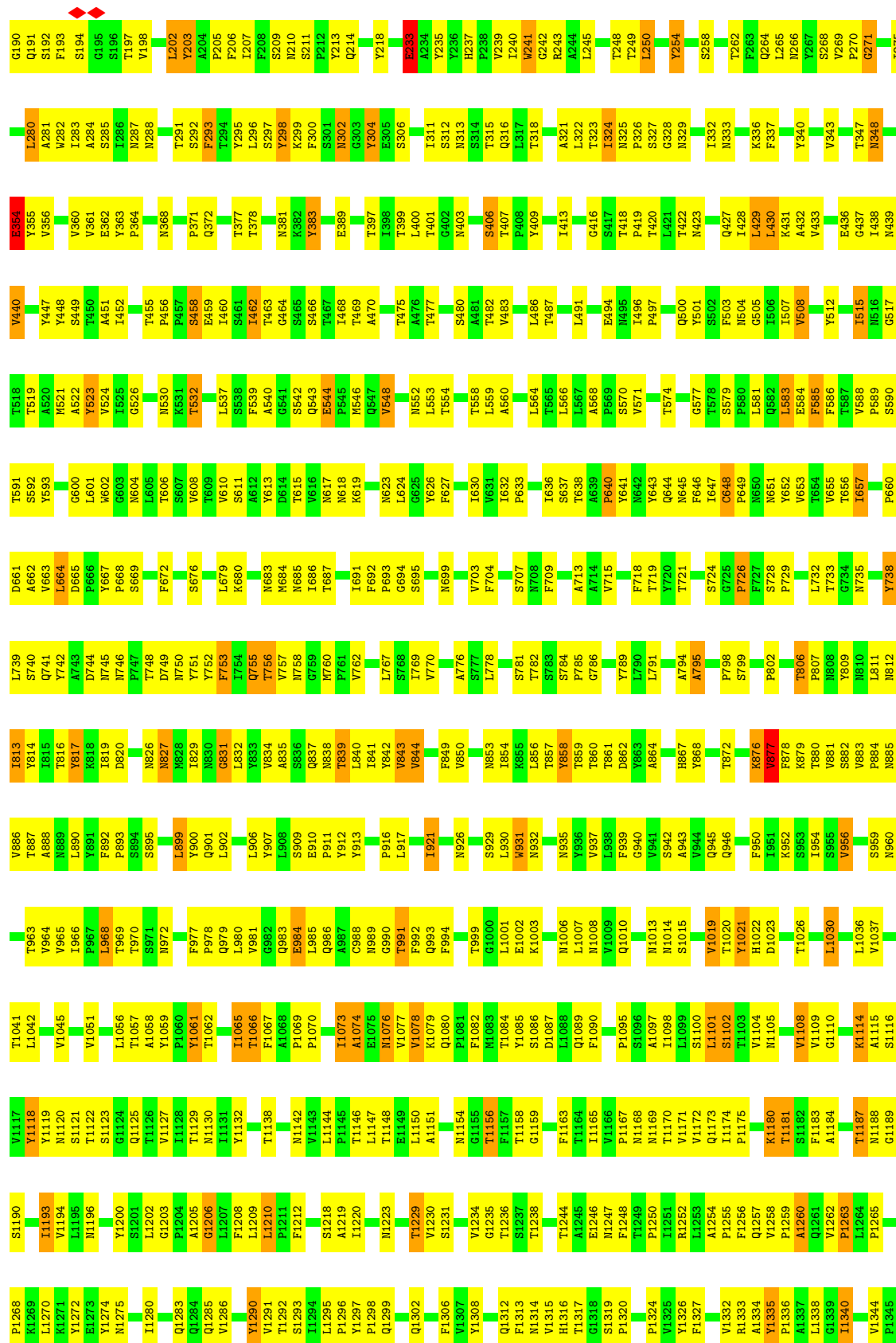
• Molecule 1: S-layer protein A





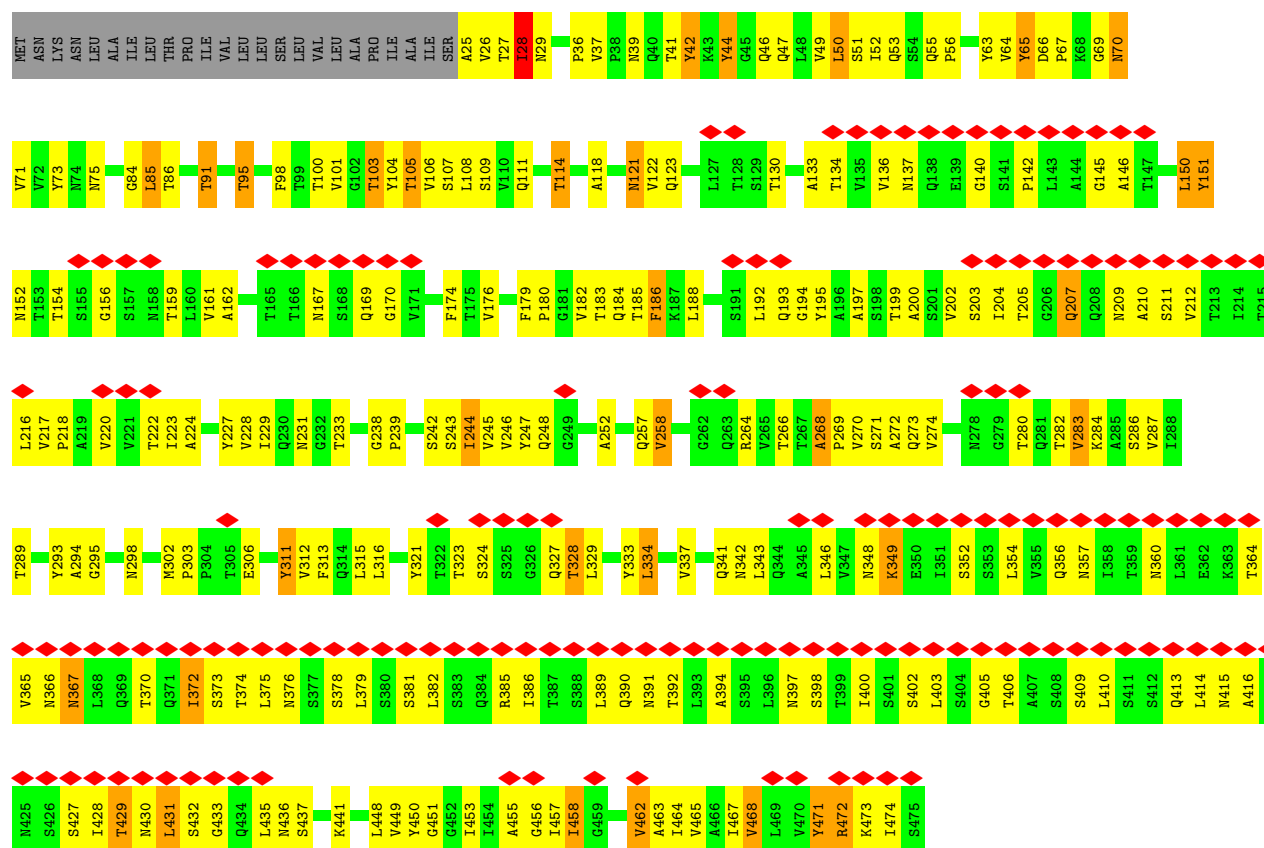
• Molecule 1: S-layer protein A



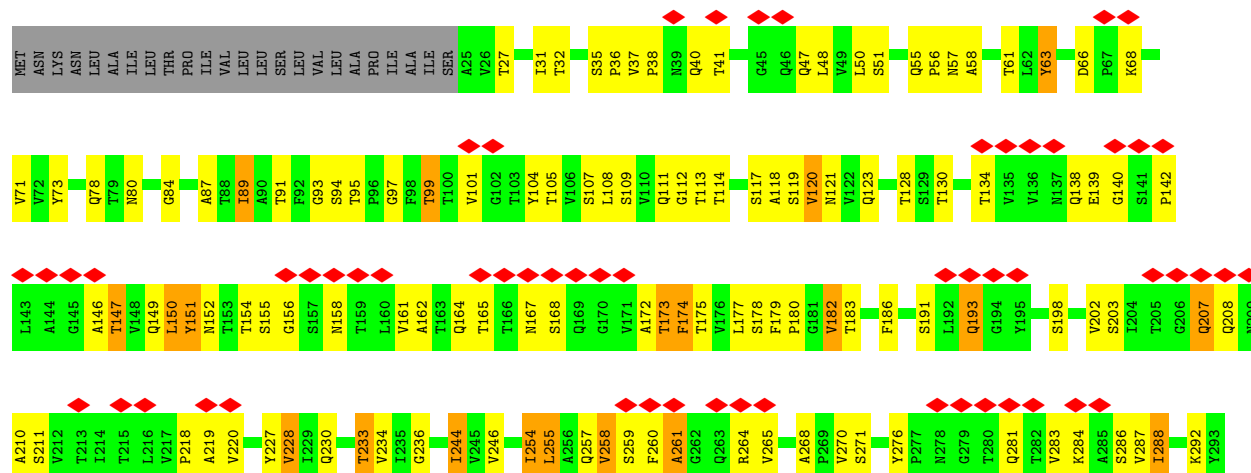




• Molecule 2: Conserved membrane protein



• Molecule 2: Conserved membrane protein



4 Experimental information

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, C3	Depositor
Number of subtomograms used	2771	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS, TFS TALOS	Depositor
Voltage (kV)	300, 200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	83, 83	Depositor
Minimum defocus (nm)	4000, 4000	Depositor
Maximum defocus (nm)	6000, 6000	Depositor
Magnification	Not provided, Not provided	Depositor
Image detector	TFS FALCON 4i (4k x 4k), GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.030	Depositor
Minimum map value	-0.010	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.002	Depositor
Recommended contour level	0.00509	Depositor
Map size ($\text{\AA}$)	700.0, 700.0, 700.0	wwPDB
Map dimensions	200, 200, 200	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	3.5, 3.5, 3.5	Depositor

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	2.27	397/10749 (3.7%)	2.38	672/14803 (4.5%)
1	V	2.27	385/10749 (3.6%)	2.35	649/14803 (4.4%)
1	W	2.26	389/10749 (3.6%)	2.35	617/14803 (4.2%)
1	Z	2.22	360/10749 (3.3%)	2.37	623/14803 (4.2%)
2	B	2.28	127/3359 (3.8%)	2.39	208/4606 (4.5%)
2	C	2.26	118/3359 (3.5%)	2.37	185/4606 (4.0%)
2	X	2.29	133/3359 (4.0%)	2.40	197/4606 (4.3%)
All	All	2.26	1909/53073 (3.6%)	2.37	3151/73030 (4.3%)

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	0	60
1	V	0	40
1	W	0	47
1	Z	0	53
2	B	0	11
2	C	0	8
2	X	0	7
All	All	0	226

All (1909) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	464	GLY	CA-C	-14.41	1.37	1.51
1	Z	526	GLY	CA-C	-13.23	1.42	1.52
1	A	108	ILE	N-CA	-11.28	1.32	1.46
1	V	526	GLY	CA-C	-11.02	1.44	1.52
1	V	688	GLY	N-CA	10.92	1.53	1.44
1	Z	532	THR	CA-C	-10.91	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	V	1289	ILE	CA-C	-10.69	1.41	1.52
1	W	1130	ASN	CA-CB	10.46	1.69	1.53
1	V	266	ASN	CA-CB	10.45	1.66	1.53
1	V	1316	HIS	CE1-NE2	-10.29	1.22	1.32
1	Z	794	ALA	CA-C	-10.22	1.40	1.52
1	W	842	TYR	N-CA	-10.18	1.33	1.46
1	Z	1317	THR	CA-C	-10.16	1.40	1.52
1	W	717	THR	CA-C	-9.92	1.41	1.53
2	X	239	PRO	CA-CB	-9.86	1.47	1.53
1	A	1370	ALA	C-N	9.76	1.40	1.33
1	A	1238	THR	CA-C	-9.71	1.42	1.52
1	A	72	THR	C-N	9.66	1.42	1.33
1	A	1346	ASN	CA-C	-9.60	1.41	1.52
1	A	633	PRO	CA-C	9.47	1.60	1.52
1	W	1065	ILE	CA-CB	-9.45	1.44	1.55
1	Z	539	PHE	CA-C	-9.41	1.40	1.52
2	B	455	ALA	N-CA	-9.40	1.34	1.46
1	V	1048	GLY	CA-C	-9.31	1.39	1.51
1	V	451	ALA	CA-C	-9.27	1.41	1.52
2	X	120	VAL	CA-C	-9.24	1.42	1.53
1	Z	169	GLN	N-CA	-9.19	1.33	1.46
1	Z	988	CYS	CA-CB	9.16	1.66	1.53
1	Z	530	ASN	CA-CB	9.14	1.65	1.53
2	C	208	GLN	CA-C	-9.14	1.41	1.52
1	A	1166	VAL	CA-C	-9.03	1.45	1.52
1	V	342	LEU	CA-C	9.03	1.62	1.52
1	V	847	GLY	CA-C	-9.03	1.42	1.52
1	W	1011	GLN	CA-C	-9.02	1.43	1.52
1	W	341	LEU	CA-CB	8.99	1.64	1.53
1	A	946	GLN	CA-C	-8.94	1.42	1.52
1	A	49	VAL	C-N	8.89	1.43	1.34
1	Z	1125	GLN	CA-C	-8.84	1.42	1.52
1	A	563	GLY	CA-C	-8.84	1.45	1.52
1	A	655	VAL	CA-CB	-8.82	1.43	1.54
2	B	26	VAL	CA-C	-8.80	1.42	1.52
1	Z	1173	GLN	C-N	8.78	1.42	1.33
1	A	432	ALA	CA-C	-8.77	1.42	1.52
1	A	995	GLY	CA-C	-8.77	1.45	1.52
1	Z	892	PHE	C-N	-8.77	1.25	1.33
1	W	1295	LEU	CA-CB	8.76	1.65	1.53
1	V	983	GLN	CA-C	-8.67	1.42	1.52
1	V	422	THR	CA-C	-8.66	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	V	797	VAL	C-N	8.65	1.40	1.33
1	Z	449	SER	CA-C	-8.64	1.41	1.52
1	Z	841	ILE	C-N	8.64	1.44	1.33
1	W	493	TYR	CA-C	-8.63	1.41	1.53
1	W	1030	LEU	CA-C	-8.63	1.42	1.52
1	A	82	ALA	CA-C	-8.62	1.42	1.52
1	Z	963	THR	C-N	8.60	1.42	1.33
2	C	146	ALA	CA-C	-8.59	1.42	1.52
2	X	403	LEU	CA-C	-8.58	1.41	1.52
2	X	215	THR	CA-C	-8.57	1.41	1.53
1	W	1359	LEU	CA-C	-8.56	1.43	1.52
1	Z	1110	GLY	N-CA	8.56	1.52	1.45
2	C	318	VAL	CA-C	-8.56	1.42	1.52
1	W	937	VAL	CA-CB	8.55	1.64	1.55
1	V	1064	ASN	C-N	8.55	1.41	1.33
2	X	217	VAL	CA-C	-8.53	1.44	1.52
1	V	923	LEU	CA-C	-8.51	1.42	1.52
1	V	687	THR	N-CA	-8.50	1.35	1.46
2	X	270	VAL	CA-CB	-8.49	1.43	1.53
1	A	1138	THR	CA-C	-8.49	1.43	1.52
1	V	117	LEU	CA-CB	8.49	1.66	1.53
2	C	211	SER	CA-C	-8.44	1.42	1.52
1	W	963	THR	C-N	8.42	1.41	1.33
1	A	106	VAL	CA-C	-8.42	1.41	1.52
1	A	113	LEU	CA-CB	8.39	1.67	1.53
1	A	126	TYR	CA-CB	8.39	1.64	1.52
1	V	407	THR	CA-C	-8.39	1.45	1.52
2	X	289	THR	C-N	8.37	1.44	1.33
1	A	288	ASN	N-CA	-8.36	1.36	1.46
1	Z	890	LEU	C-N	8.36	1.43	1.33
1	A	789	TYR	C-N	8.35	1.44	1.33
1	W	518	THR	C-N	8.35	1.45	1.33
2	B	414	LEU	CA-C	-8.33	1.42	1.52
2	C	111	GLN	CA-C	-8.24	1.44	1.53
1	W	60	GLU	C-N	8.23	1.44	1.33
1	W	970	THR	N-CA	8.23	1.56	1.46
1	V	1068	ALA	C-N	8.22	1.40	1.33
1	W	269	VAL	CA-C	-8.21	1.46	1.53
1	A	339	VAL	CA-CB	-8.19	1.44	1.54
1	A	568	ALA	CA-C	-8.18	1.44	1.52
1	W	771	ALA	N-CA	-8.16	1.35	1.46
1	A	185	SER	C-N	8.16	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	411	VAL	CA-C	-8.15	1.42	1.52
1	V	1322	ALA	CA-C	-8.14	1.42	1.52
1	Z	1019	VAL	C-N	8.13	1.44	1.33
1	Z	211	SER	CA-C	-8.12	1.44	1.52
1	A	471	GLN	N-CA	-8.11	1.35	1.45
1	W	1215	TYR	CA-C	8.09	1.62	1.52
1	W	858	TYR	N-CA	-8.07	1.36	1.46
1	A	470	ALA	CA-C	-8.05	1.43	1.52
1	W	239	VAL	C-N	8.04	1.44	1.33
1	Z	53	ILE	CA-C	-8.04	1.43	1.52
1	A	99	TYR	N-CA	-8.02	1.36	1.45
1	W	1350	TYR	CA-CB	8.02	1.64	1.52
1	A	524	VAL	CA-CB	8.01	1.64	1.54
1	V	1284	GLN	C-N	8.01	1.45	1.33
2	C	457	ILE	N-CA	7.98	1.56	1.46
1	Z	265	LEU	CA-C	-7.98	1.43	1.52
1	Z	1352	GLN	CA-CB	7.98	1.65	1.53
1	Z	266	ASN	CA-C	-7.97	1.43	1.52
1	V	1009	VAL	CA-C	-7.96	1.43	1.52
1	V	1069	PRO	CA-C	-7.96	1.47	1.51
2	C	228	VAL	CA-CB	7.95	1.64	1.54
1	Z	318	THR	CA-C	-7.94	1.43	1.53
1	W	893	PRO	CA-C	-7.94	1.45	1.52
1	A	91	VAL	C-N	7.92	1.44	1.33
1	W	950	PHE	CA-C	-7.92	1.42	1.52
1	Z	371	PRO	C-N	7.91	1.44	1.33
1	V	823	THR	CA-C	-7.90	1.43	1.52
1	V	377	THR	CA-C	-7.90	1.42	1.52
1	W	562	PHE	C-N	7.88	1.42	1.33
1	W	975	THR	N-CA	-7.87	1.36	1.46
1	W	401	THR	CA-C	-7.87	1.42	1.52
1	Z	203	TYR	CA-C	-7.87	1.43	1.52
1	W	979	GLN	CA-CB	7.86	1.63	1.52
2	C	207	GLN	CA-C	-7.85	1.43	1.52
1	A	1225	THR	CA-C	-7.84	1.42	1.52
1	V	53	ILE	CA-CB	7.84	1.64	1.54
1	A	829	ILE	N-CA	-7.83	1.35	1.46
1	V	947	TYR	CA-CB	7.83	1.63	1.53
1	V	166	TYR	CA-CB	7.82	1.65	1.53
1	V	894	SER	N-CA	-7.81	1.36	1.46
1	W	411	VAL	CA-CB	-7.80	1.44	1.54
1	V	346	SER	CA-CB	7.79	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	287	ASN	C-N	7.78	1.44	1.33
1	Z	57	ALA	N-CA	-7.78	1.37	1.46
1	V	603	GLY	CA-C	-7.77	1.41	1.51
1	A	1192	ALA	N-CA	-7.77	1.37	1.46
2	B	398	SER	CA-CB	7.76	1.65	1.53
1	Z	364	PRO	C-N	7.76	1.43	1.33
1	W	1226	ALA	CA-C	-7.75	1.43	1.52
2	B	106	VAL	N-CA	-7.75	1.36	1.46
2	B	472	ARG	CA-CB	7.75	1.65	1.53
1	Z	586	PHE	CA-C	-7.74	1.43	1.52
1	V	80	TYR	CA-CB	7.74	1.65	1.53
1	V	122	THR	C-N	7.74	1.43	1.33
1	Z	1238	THR	CA-C	7.73	1.61	1.52
2	C	401	SER	N-CA	-7.72	1.37	1.46
1	W	892	PHE	C-N	7.71	1.40	1.33
1	Z	544	GLU	C-N	7.71	1.42	1.33
1	A	699	ASN	CA-CB	7.71	1.61	1.53
2	B	328	THR	CA-CB	7.71	1.63	1.52
1	Z	744	ASP	C-N	7.71	1.44	1.34
1	A	1256	PHE	C-N	7.68	1.45	1.33
1	A	1082	PHE	CA-C	-7.67	1.42	1.52
1	W	1170	THR	C-N	7.67	1.41	1.33
1	V	427	GLN	CA-C	-7.67	1.42	1.52
1	A	1192	ALA	CA-C	-7.66	1.44	1.52
1	Z	694	GLY	C-N	7.66	1.44	1.33
2	B	193	GLN	CA-CB	7.65	1.62	1.53
1	V	1175	PRO	CA-C	-7.65	1.45	1.52
1	W	1151	ALA	CA-C	-7.64	1.43	1.52
1	Z	579	SER	C-N	7.64	1.42	1.33
1	Z	834	VAL	CA-CB	-7.64	1.45	1.54
1	A	123	ALA	N-CA	7.63	1.55	1.45
1	Z	837	GLN	CA-C	-7.62	1.45	1.52
1	W	967	PRO	CA-C	-7.62	1.43	1.52
1	A	1308	TYR	CA-CB	7.60	1.66	1.53
1	V	1139	LEU	CA-C	-7.58	1.43	1.52
2	B	36	PRO	C-N	7.57	1.42	1.33
1	Z	127	ASP	CA-C	-7.57	1.43	1.52
2	B	473	LYS	C-N	7.56	1.42	1.33
2	X	275	TYR	CA-CB	7.56	1.64	1.53
1	Z	829	ILE	CA-C	-7.55	1.43	1.52
1	W	1333	ARG	NE-CZ	7.54	1.41	1.33
1	W	843	VAL	CA-C	-7.53	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	1316	HIS	CA-C	-7.53	1.42	1.52
1	Z	559	LEU	CA-CB	7.53	1.64	1.53
1	Z	842	TYR	N-CA	-7.53	1.36	1.46
2	C	366	ASN	CA-CB	7.51	1.65	1.53
2	X	450	TYR	CA-C	-7.51	1.43	1.52
1	W	815	ILE	CA-C	-7.51	1.43	1.52
1	V	626	TYR	N-CA	-7.51	1.37	1.46
1	Z	687	THR	C-N	7.51	1.42	1.33
1	A	962	THR	CA-C	-7.50	1.43	1.52
2	X	119	SER	C-N	7.50	1.41	1.33
1	W	505	GLY	CA-C	-7.50	1.43	1.51
1	V	201	ILE	C-N	7.49	1.44	1.33
2	B	324	SER	CA-C	-7.49	1.42	1.52
1	V	656	THR	N-CA	-7.49	1.36	1.46
1	W	865	VAL	CA-C	-7.48	1.41	1.52
1	A	335	LYS	CA-C	-7.47	1.43	1.52
1	A	1266	ASN	CA-C	-7.47	1.43	1.52
1	V	1059	TYR	N-CA	-7.47	1.40	1.46
1	W	584	GLU	N-CA	-7.46	1.36	1.46
1	A	958	LEU	CA-C	-7.46	1.43	1.52
2	X	231	ASN	C-N	7.45	1.42	1.33
1	Z	683	ASN	CA-CB	7.45	1.63	1.53
1	W	1166	VAL	CA-C	7.45	1.59	1.52
1	W	1293	SER	CA-C	-7.45	1.43	1.52
1	A	146	ASP	CA-C	-7.44	1.43	1.52
2	X	111	GLN	CA-C	-7.43	1.45	1.53
1	Z	1127	VAL	CA-C	-7.43	1.43	1.52
1	V	1213	VAL	CA-C	-7.43	1.44	1.52
1	W	650	ASN	N-CA	-7.43	1.40	1.47
1	A	523	TYR	C-N	7.43	1.42	1.33
1	A	354	GLU	CA-CB	7.42	1.63	1.53
1	W	632	ILE	N-CA	-7.42	1.39	1.46
1	V	697	VAL	CA-C	-7.42	1.43	1.52
1	A	963	THR	N-CA	-7.41	1.37	1.46
1	V	1193	ILE	CA-C	-7.41	1.43	1.52
1	Z	672	PHE	C-N	7.40	1.39	1.33
2	B	271	SER	CA-C	-7.40	1.43	1.52
1	Z	1045	VAL	CA-C	-7.39	1.43	1.52
2	C	172	ALA	CA-C	-7.38	1.44	1.53
1	W	1172	VAL	CA-CB	-7.36	1.45	1.54
1	Z	470	ALA	CA-C	-7.36	1.43	1.52
1	Z	111	SER	N-CA	-7.35	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Z	798	PRO	N-CD	-7.35	1.37	1.47
1	A	457	PRO	CA-CB	-7.35	1.46	1.53
1	W	456	PRO	C-N	7.34	1.40	1.33
1	V	525	ILE	CA-C	-7.34	1.43	1.52
1	W	904	VAL	C-N	7.34	1.42	1.33
1	A	531	LYS	C-O	-7.33	1.15	1.23
1	W	1031	THR	CA-CB	7.33	1.62	1.53
2	X	227	TYR	CA-C	-7.33	1.43	1.52
1	A	834	VAL	C-N	7.32	1.43	1.33
1	A	376	VAL	CA-C	7.32	1.61	1.52
1	V	1393	LEU	CA-C	-7.32	1.43	1.52
1	W	135	SER	CA-C	-7.32	1.43	1.52
1	Z	110	LEU	C-N	7.31	1.44	1.33
1	Z	60	GLU	CA-C	-7.31	1.43	1.52
1	Z	1069	PRO	CA-C	-7.29	1.45	1.52
2	C	434	GLN	N-CA	-7.29	1.37	1.46
2	B	85	LEU	N-CA	-7.27	1.37	1.46
1	W	1187	THR	N-CA	-7.27	1.37	1.46
2	B	239	PRO	CA-CB	7.25	1.64	1.53
1	V	829	ILE	CA-C	-7.25	1.44	1.52
1	W	1373	PHE	N-CA	-7.25	1.37	1.46
1	A	1237	SER	CA-C	-7.24	1.44	1.52
2	B	378	SER	N-CA	-7.24	1.37	1.46
1	Z	73	VAL	C-N	7.24	1.43	1.33
1	A	838	ASN	CA-CB	7.23	1.65	1.53
1	A	237	HIS	CG-ND1	-7.23	1.30	1.38
1	V	1156	THR	CA-C	7.23	1.61	1.52
1	A	136	VAL	C-N	7.22	1.43	1.33
1	V	1135	THR	C-N	7.22	1.41	1.33
1	V	823	THR	N-CA	-7.22	1.36	1.45
1	A	791	LEU	CA-C	-7.21	1.45	1.52
1	Z	439	ASN	CA-C	-7.21	1.43	1.52
1	A	437	GLY	CA-C	-7.21	1.41	1.51
1	Z	600	GLY	CA-C	-7.20	1.41	1.51
1	V	783	SER	N-CA	-7.19	1.37	1.46
1	V	91	VAL	C-N	7.19	1.42	1.33
1	A	4	PRO	CA-C	7.19	1.61	1.52
2	X	180	PRO	N-CD	-7.19	1.37	1.47
1	A	870	TYR	CA-C	-7.18	1.43	1.52
2	X	336	SER	CA-CB	7.18	1.62	1.52
1	W	1050	GLY	CA-C	-7.18	1.47	1.52
2	B	303	PRO	CA-C	7.18	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Z	1335	TYR	CA-C	-7.17	1.46	1.52
1	A	1301	PHE	C-N	7.17	1.43	1.33
1	A	551	ASN	CA-CB	7.16	1.65	1.53
1	W	267	TYR	CA-C	-7.16	1.43	1.52
2	X	257	GLN	CA-C	7.16	1.62	1.53
1	A	104	THR	C-N	7.16	1.43	1.33
1	A	1363	LYS	C-N	7.15	1.43	1.33
1	W	691	ILE	N-CA	-7.15	1.37	1.46
2	C	390	GLN	C-N	7.14	1.43	1.33
1	A	754	ILE	C-N	7.14	1.42	1.33
1	W	746	ASN	C-N	7.14	1.42	1.34
1	W	690	VAL	CA-C	-7.13	1.45	1.52
2	X	49	VAL	N-CA	-7.13	1.37	1.46
1	V	1096	SER	CA-CB	7.13	1.65	1.53
1	W	183	LEU	C-O	-7.13	1.15	1.23
1	W	1195	LEU	C-N	7.12	1.42	1.33
1	V	361	VAL	N-CA	7.11	1.54	1.46
1	A	769	ILE	CA-C	7.11	1.61	1.52
1	A	479	ALA	CA-CB	7.11	1.65	1.53
1	V	704	PHE	CA-CB	7.11	1.64	1.53
1	A	39	SER	CA-CB	7.10	1.66	1.53
1	V	2	THR	CA-CB	-7.10	1.44	1.53
1	A	1251	ILE	C-N	7.09	1.43	1.33
1	A	238	PRO	CA-CB	-7.09	1.43	1.53
1	V	728	SER	CA-CB	7.09	1.64	1.53
1	Z	795	ALA	C-N	7.09	1.43	1.33
2	B	333	TYR	CA-C	-7.07	1.44	1.52
1	W	924	GLY	CA-C	-7.07	1.43	1.52
1	A	580	PRO	N-CD	-7.07	1.37	1.47
1	A	921	ILE	CA-C	-7.06	1.43	1.52
1	V	471	GLN	C-N	7.06	1.43	1.33
1	W	883	VAL	CA-C	-7.05	1.47	1.53
2	X	158	ASN	CA-CB	7.05	1.62	1.52
1	V	954	ILE	CA-C	-7.05	1.44	1.52
1	A	1151	ALA	N-CA	-7.04	1.36	1.46
1	Z	1366	ILE	N-CA	-7.04	1.38	1.46
2	B	257	GLN	C-N	7.04	1.42	1.33
2	C	120	VAL	CA-C	-7.04	1.43	1.52
1	V	967	PRO	CA-C	-7.04	1.44	1.52
1	V	1201	SER	N-CA	7.04	1.54	1.46
1	W	776	ALA	CA-C	-7.04	1.44	1.52
1	W	349	SER	CA-C	-7.03	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	504	ASN	C-N	7.03	1.42	1.33
1	A	822	ALA	CA-C	-7.03	1.44	1.52
1	V	213	TYR	N-CA	-7.02	1.37	1.46
2	X	128	THR	CA-C	-7.01	1.44	1.52
1	W	147	THR	N-CA	-7.00	1.38	1.46
2	B	217	VAL	N-CA	7.00	1.54	1.47
1	A	870	TYR	CA-CB	6.99	1.65	1.53
1	A	17	GLY	N-CA	-6.99	1.39	1.45
1	A	169	GLN	CA-C	6.98	1.60	1.52
2	B	51	SER	CA-C	-6.98	1.44	1.53
2	B	327	GLN	CA-C	-6.98	1.43	1.52
2	X	325	SER	C-N	6.98	1.43	1.33
2	X	140	GLY	C-N	6.97	1.43	1.33
1	V	198	VAL	CA-C	-6.97	1.45	1.52
1	V	239	VAL	CA-CB	-6.97	1.45	1.54
1	A	1301	PHE	CA-C	-6.96	1.43	1.52
2	X	186	PHE	N-CA	-6.96	1.37	1.45
2	X	251	PRO	CA-C	-6.96	1.46	1.52
1	A	74	ARG	NE-CZ	6.96	1.40	1.33
1	Z	406	SER	CA-C	-6.95	1.44	1.53
2	X	220	VAL	C-N	6.95	1.41	1.33
1	Z	1293	SER	N-CA	-6.95	1.38	1.46
2	X	298	ASN	CA-C	-6.93	1.44	1.52
2	X	309	GLN	C-N	6.93	1.42	1.33
2	X	354	LEU	CA-CB	6.93	1.64	1.53
1	A	691	ILE	CA-C	-6.93	1.43	1.52
1	W	732	LEU	C-N	6.93	1.43	1.33
1	W	344	VAL	CA-C	6.92	1.61	1.52
1	W	965	VAL	C-N	6.92	1.41	1.33
1	W	149	THR	CA-C	-6.92	1.43	1.52
1	W	417	SER	C-N	6.91	1.44	1.33
1	W	328	GLY	C-N	6.91	1.42	1.33
1	W	999	THR	CA-C	-6.91	1.43	1.52
1	Z	363	TYR	CA-CB	6.91	1.63	1.54
1	A	284	ALA	CA-C	-6.90	1.44	1.52
2	B	65	TYR	CA-CB	6.90	1.64	1.53
1	V	356	VAL	C-O	-6.89	1.17	1.24
1	Z	186	PHE	CA-CB	6.89	1.65	1.53
1	A	819	ILE	CA-CB	6.89	1.62	1.54
1	W	1209	LEU	N-CA	6.89	1.55	1.46
1	Z	173	ASN	CA-CB	6.89	1.62	1.52
1	Z	466	SER	C-N	6.89	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	X	280	THR	C-N	6.89	1.43	1.33
1	W	584	GLU	CA-C	-6.88	1.44	1.52
1	V	433	VAL	N-CA	-6.88	1.38	1.46
1	W	301	SER	CA-C	-6.88	1.46	1.53
2	X	196	ALA	C-N	6.88	1.42	1.33
1	A	749	ASP	C-N	6.88	1.43	1.33
1	Z	782	THR	N-CA	6.87	1.54	1.46
1	Z	1051	VAL	N-CA	-6.87	1.38	1.46
1	A	828	MET	CA-CB	6.87	1.64	1.53
1	V	1330	SER	CA-C	-6.87	1.44	1.52
1	V	863	TYR	CA-C	-6.86	1.43	1.52
1	V	1127	VAL	C-N	6.86	1.41	1.33
2	X	341	GLN	CA-CB	6.86	1.64	1.53
1	Z	1340	ILE	CA-C	-6.86	1.44	1.52
1	V	788	MET	CA-C	-6.86	1.44	1.52
2	X	157	SER	CA-CB	6.85	1.65	1.53
1	V	865	VAL	N-CA	-6.85	1.38	1.46
1	V	1188	ASN	CA-C	6.85	1.62	1.53
1	W	145	ILE	N-CA	-6.84	1.38	1.46
1	V	354	GLU	CA-C	-6.84	1.44	1.52
1	Z	789	TYR	CA-C	-6.84	1.44	1.52
1	Z	1175	PRO	C-N	6.82	1.42	1.33
1	Z	401	THR	C-N	6.82	1.43	1.33
1	V	427	GLN	CA-CB	6.82	1.62	1.53
1	A	457	PRO	N-CA	-6.81	1.38	1.47
1	W	1148	THR	CA-CB	6.81	1.65	1.53
1	W	564	LEU	C-N	6.80	1.43	1.33
1	A	1314	ASN	CA-CB	6.79	1.61	1.53
1	V	1045	VAL	CA-C	-6.79	1.43	1.52
2	B	419	GLY	CA-C	6.79	1.59	1.52
2	B	283	VAL	CA-CB	-6.79	1.46	1.54
1	W	53	ILE	N-CA	-6.78	1.37	1.46
1	Z	756	THR	N-CA	-6.78	1.37	1.45
1	W	98	LEU	C-N	6.78	1.43	1.33
1	Z	707	SER	CA-CB	6.78	1.62	1.53
2	C	191	SER	CA-C	-6.78	1.44	1.52
1	A	676	SER	C-N	6.78	1.41	1.33
1	A	1196	ASN	CA-CB	6.77	1.64	1.53
1	A	718	PHE	C-N	6.77	1.42	1.33
1	V	1167	PRO	CA-CB	6.76	1.62	1.53
1	V	744	ASP	CA-C	6.75	1.61	1.52
1	W	1133	GLY	C-N	6.75	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	1180	LYS	CA-C	-6.75	1.43	1.52
1	Z	372	GLN	C-N	6.75	1.38	1.33
1	V	798	PRO	CA-C	-6.75	1.46	1.52
2	C	414	LEU	CA-C	-6.74	1.44	1.52
2	C	438	LEU	CA-CB	6.74	1.63	1.53
2	X	102	GLY	CA-C	-6.74	1.43	1.51
1	W	107	ASN	C-N	6.74	1.39	1.32
1	V	855	LYS	CA-C	-6.73	1.44	1.52
2	X	470	VAL	CA-CB	6.73	1.63	1.54
1	V	380	SER	N-CA	-6.72	1.37	1.46
1	Z	422	THR	N-CA	-6.72	1.38	1.46
1	V	356	VAL	CA-C	-6.72	1.44	1.52
1	W	259	VAL	CA-CB	6.72	1.60	1.54
1	Z	1036	LEU	CA-C	-6.72	1.44	1.52
1	W	1119	TYR	N-CA	-6.72	1.36	1.45
1	A	28	PHE	C-N	6.71	1.43	1.33
1	A	1165	ILE	C-O	-6.71	1.17	1.24
1	V	61	ASN	N-CA	-6.71	1.38	1.46
1	Z	1220	ILE	N-CA	-6.71	1.38	1.46
1	W	470	ALA	CA-CB	6.70	1.62	1.53
2	B	182	VAL	CA-C	-6.70	1.44	1.52
1	V	977	PHE	C-N	6.70	1.42	1.34
1	Z	1030	LEU	CA-CB	6.70	1.65	1.53
1	A	740	SER	C-N	6.70	1.43	1.33
1	W	1048	GLY	N-CA	-6.70	1.37	1.45
1	V	801	LEU	CA-CB	6.69	1.61	1.53
2	C	390	GLN	CA-CB	6.69	1.63	1.53
1	Z	1219	ALA	CA-C	-6.69	1.44	1.52
1	W	507	ILE	CA-C	-6.69	1.44	1.52
2	B	431	LEU	CA-CB	6.69	1.63	1.53
2	X	243	SER	CA-C	6.69	1.60	1.52
1	V	958	LEU	C-N	6.68	1.42	1.33
1	V	1264	LEU	CA-C	-6.68	1.44	1.52
1	A	249	THR	C-N	6.68	1.42	1.33
1	V	45	VAL	N-CA	-6.68	1.38	1.46
1	A	629	GLY	CA-C	-6.67	1.47	1.52
1	Z	684	MET	CA-CB	6.67	1.62	1.53
2	B	101	VAL	CA-C	-6.67	1.45	1.52
2	C	348	ASN	C-N	6.67	1.43	1.33
1	V	360	VAL	N-CA	-6.67	1.38	1.46
1	W	882	SER	N-CA	-6.67	1.37	1.45
1	A	316	GLN	CA-C	-6.66	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	V	1321	THR	C-N	6.66	1.41	1.33
1	Z	239	VAL	CA-C	-6.66	1.44	1.52
1	V	552	ASN	CA-C	-6.65	1.44	1.52
2	B	272	ALA	CA-C	6.65	1.60	1.52
1	Z	811	LEU	CA-C	6.65	1.61	1.52
1	Z	76	PRO	CA-C	6.65	1.60	1.52
2	C	254	ILE	CA-C	-6.64	1.44	1.52
1	W	496	ILE	CA-C	6.64	1.58	1.53
2	B	386	ILE	C-N	6.64	1.42	1.33
2	B	216	LEU	CA-CB	6.64	1.62	1.53
1	V	795	ALA	CA-CB	6.64	1.63	1.53
1	W	1325	VAL	C-N	6.64	1.41	1.33
1	V	1222	ALA	N-CA	-6.63	1.38	1.46
1	Z	1263	PRO	N-CA	6.63	1.54	1.46
1	A	537	LEU	CA-CB	6.62	1.63	1.53
1	V	931	TRP	C-N	6.62	1.44	1.33
1	V	839	THR	CA-C	-6.62	1.44	1.52
1	W	589	PRO	N-CA	-6.62	1.39	1.47
1	Z	348	ASN	CA-CB	6.62	1.62	1.53
1	A	38	SER	CA-C	-6.62	1.44	1.52
1	Z	893	PRO	C-N	6.62	1.41	1.33
1	Z	956	VAL	CA-CB	6.61	1.63	1.54
1	A	533	SER	C-N	6.61	1.42	1.33
1	A	808	ASN	CA-C	-6.61	1.45	1.52
1	W	699	ASN	CA-CB	6.61	1.60	1.53
1	V	879	LYS	CA-C	-6.61	1.44	1.52
1	Z	902	LEU	C-N	6.61	1.41	1.33
1	Z	1148	THR	CA-C	-6.61	1.44	1.52
1	A	774	VAL	CA-CB	6.61	1.61	1.53
1	W	589	PRO	C-N	6.60	1.43	1.33
1	W	1070	PRO	C-O	-6.60	1.16	1.23
1	W	237	HIS	N-CA	-6.60	1.40	1.46
2	C	399	THR	N-CA	6.59	1.54	1.46
1	V	978	PRO	N-CA	-6.58	1.39	1.47
1	W	892	PHE	N-CA	-6.58	1.37	1.46
1	A	53	ILE	C-N	6.58	1.41	1.33
1	V	1135	THR	CA-C	-6.58	1.44	1.52
1	W	353	VAL	CA-CB	6.58	1.63	1.54
1	A	953	SER	CA-C	-6.58	1.44	1.52
1	A	662	ALA	CA-C	-6.57	1.44	1.52
1	V	1392	THR	C-N	6.56	1.42	1.33
1	Z	1119	TYR	C-N	6.56	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Z	1391	VAL	CA-C	6.56	1.61	1.52
1	A	469	THR	CA-C	-6.56	1.44	1.52
1	V	187	THR	C-N	6.55	1.41	1.33
1	A	215	ALA	CA-C	-6.55	1.44	1.52
1	W	386	PRO	C-N	6.55	1.42	1.33
1	A	965	VAL	CA-CB	-6.55	1.45	1.54
1	V	1071	TRP	N-CA	-6.55	1.37	1.45
2	C	431	LEU	N-CA	-6.54	1.38	1.46
2	X	164	GLN	CA-C	-6.54	1.44	1.53
2	X	142	PRO	CA-C	-6.54	1.46	1.52
1	A	672	PHE	CA-C	-6.54	1.44	1.52
1	A	1001	LEU	CA-C	-6.54	1.44	1.52
1	V	1248	PHE	N-CA	-6.53	1.38	1.46
1	A	206	PHE	N-CA	-6.53	1.38	1.46
1	Z	254	TYR	C-O	6.53	1.32	1.24
1	A	721	THR	C-N	6.52	1.42	1.33
1	V	1392	THR	CA-C	-6.52	1.42	1.53
2	C	389	LEU	CA-CB	6.52	1.63	1.53
1	W	457	PRO	N-CA	-6.52	1.39	1.47
1	W	618	ASN	C-N	6.52	1.42	1.33
1	A	175	GLN	C-N	6.52	1.42	1.33
1	A	1017	LEU	CA-C	-6.51	1.44	1.52
1	W	1002	GLU	CA-C	-6.51	1.44	1.52
2	X	307	SER	CA-C	-6.51	1.45	1.52
1	W	297	SER	C-N	6.51	1.42	1.33
1	W	1045	VAL	N-CA	-6.51	1.38	1.46
1	Z	602	TRP	N-CA	-6.51	1.37	1.46
1	V	71	VAL	N-CA	-6.50	1.38	1.46
1	A	878	PHE	CA-CB	6.50	1.64	1.53
1	A	1361	ALA	C-N	6.50	1.39	1.32
1	W	560	ALA	CA-C	6.50	1.59	1.53
2	C	453	ILE	C-N	6.50	1.42	1.33
1	V	794	ALA	CA-CB	6.50	1.63	1.53
1	Z	463	THR	CA-C	-6.50	1.44	1.52
1	A	1201	SER	C-N	6.49	1.42	1.33
2	C	107	SER	CA-C	-6.49	1.44	1.52
1	A	567	LEU	CA-CB	6.49	1.63	1.53
1	W	1041	THR	C-N	6.49	1.42	1.33
1	Z	986	GLN	CA-C	-6.49	1.44	1.52
1	Z	1259	PRO	CA-C	-6.49	1.44	1.52
1	Z	505	GLY	CA-C	-6.49	1.44	1.51
1	A	787	PHE	C-N	6.49	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	V	938	LEU	N-CA	-6.48	1.38	1.46
1	W	324	ILE	CA-CB	6.48	1.62	1.54
1	W	1252	ARG	CD-NE	6.48	1.55	1.46
1	Z	693	PRO	N-CA	-6.48	1.39	1.47
1	W	527	ALA	C-N	6.48	1.42	1.33
1	V	215	ALA	CA-C	-6.47	1.44	1.52
2	X	167	ASN	C-N	6.47	1.41	1.33
1	V	1190	SER	CA-C	-6.47	1.46	1.53
1	A	387	VAL	CA-CB	-6.47	1.46	1.53
1	A	764	MET	C-N	6.47	1.40	1.33
1	A	1371	VAL	C-O	-6.47	1.18	1.23
1	Z	721	THR	CA-C	-6.47	1.44	1.52
1	A	598	ASP	CA-C	-6.46	1.44	1.52
1	V	907	TYR	CA-CB	6.46	1.62	1.53
1	V	498	LEU	CB-CG	6.46	1.66	1.53
1	V	1062	THR	C-N	6.46	1.42	1.33
1	Z	786	GLY	CA-C	-6.46	1.43	1.51
1	V	653	VAL	N-CA	-6.46	1.38	1.46
1	W	679	LEU	N-CA	-6.46	1.37	1.45
1	A	1016	ILE	N-CA	-6.46	1.37	1.46
1	A	438	ILE	N-CA	-6.45	1.38	1.46
1	V	1231	SER	CA-C	-6.45	1.45	1.52
1	A	526	GLY	CA-C	-6.45	1.46	1.51
1	W	1348	LEU	C-N	6.45	1.41	1.33
1	V	21	PRO	C-N	6.45	1.41	1.33
1	A	1108	VAL	CA-C	-6.44	1.44	1.52
1	V	966	ILE	CA-C	-6.44	1.46	1.52
2	C	400	ILE	N-CA	-6.44	1.38	1.46
2	X	220	VAL	N-CA	-6.44	1.38	1.46
2	C	168	SER	N-CA	-6.44	1.37	1.46
1	Z	397	THR	CA-C	-6.44	1.44	1.52
2	C	202	VAL	CA-C	-6.43	1.47	1.52
1	A	826	ASN	CA-C	-6.43	1.44	1.52
2	C	421	ILE	CA-CB	-6.43	1.46	1.54
1	W	706	TYR	CA-C	-6.43	1.44	1.53
1	Z	1015	SER	CA-C	-6.43	1.44	1.52
1	Z	1109	VAL	CA-C	6.43	1.61	1.52
1	Z	1151	ALA	CA-C	-6.42	1.44	1.52
1	A	96	SER	CA-C	6.42	1.61	1.52
1	A	599	PHE	N-CA	6.42	1.54	1.46
1	Z	258	SER	C-N	6.42	1.39	1.33
1	V	283	ILE	CA-C	-6.42	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	891	TYR	C-N	6.42	1.41	1.33
1	A	828	MET	CA-C	-6.41	1.44	1.52
1	Z	610	VAL	C-N	6.41	1.41	1.33
1	A	631	VAL	CA-CB	-6.41	1.45	1.54
1	W	818	LYS	CA-CB	6.41	1.64	1.53
1	V	644	GLN	CA-C	-6.40	1.44	1.52
2	C	117	SER	C-N	6.40	1.42	1.33
1	V	509	THR	N-CA	6.40	1.52	1.45
1	Z	1346	ASN	C-N	6.40	1.42	1.33
2	X	138	GLN	N-CA	-6.40	1.37	1.46
1	Z	1298	PRO	CA-CB	6.40	1.62	1.53
2	X	409	SER	CA-CB	6.40	1.63	1.53
1	Z	430	LEU	N-CA	-6.39	1.38	1.45
1	Z	1073	ILE	C-N	6.39	1.42	1.33
1	V	6	SER	CA-C	-6.39	1.44	1.53
1	W	1272	TYR	CA-C	-6.39	1.44	1.52
2	C	371	GLN	CA-CB	6.38	1.63	1.53
1	V	229	SER	CA-C	6.38	1.60	1.52
1	A	1257	GLN	CA-C	-6.38	1.44	1.52
2	B	252	ALA	CA-CB	6.38	1.61	1.53
1	Z	968	LEU	C-N	6.38	1.41	1.33
1	A	893	PRO	N-CD	-6.37	1.38	1.47
2	X	419	GLY	CA-C	-6.37	1.45	1.52
1	Z	1258	VAL	N-CA	-6.37	1.41	1.46
1	V	269	VAL	CA-C	6.37	1.59	1.52
1	A	1048	GLY	C-N	6.37	1.42	1.33
1	V	537	LEU	CA-CB	6.37	1.62	1.53
1	Z	691	ILE	CA-CB	6.37	1.61	1.54
1	A	1084	THR	C-N	6.36	1.42	1.33
1	W	870	TYR	C-N	6.36	1.42	1.33
1	V	13	TYR	CA-CB	6.36	1.61	1.52
1	V	464	GLY	N-CA	-6.36	1.39	1.45
1	Z	249	THR	CA-C	-6.36	1.43	1.53
1	A	564	LEU	N-CA	-6.36	1.39	1.46
2	C	303	PRO	CA-C	6.35	1.58	1.52
1	A	180	SER	CA-CB	6.35	1.62	1.53
1	A	529	TYR	C-N	6.35	1.42	1.33
1	V	193	PHE	CA-CB	6.35	1.64	1.53
1	V	1358	ASN	CA-C	-6.35	1.43	1.52
1	Z	931	TRP	N-CA	-6.35	1.38	1.46
1	V	755	GLN	N-CA	-6.34	1.38	1.46
2	X	331	THR	N-CA	-6.34	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	551	ASN	CA-CB	6.34	1.62	1.53
1	V	858	TYR	N-CA	-6.34	1.38	1.46
1	A	1039	LEU	CA-C	-6.34	1.44	1.52
1	W	674	THR	C-N	6.33	1.42	1.33
1	A	69	GLY	C-N	6.33	1.41	1.33
1	Z	508	VAL	N-CA	-6.33	1.39	1.46
1	Z	1382	TYR	C-O	-6.33	1.21	1.23
1	A	774	VAL	CA-C	-6.33	1.45	1.53
1	V	441	SER	CA-CB	6.33	1.61	1.53
1	Z	649	PRO	N-CA	-6.32	1.42	1.47
2	C	97	GLY	CA-C	-6.32	1.43	1.51
1	W	301	SER	C-N	6.32	1.42	1.33
2	C	392	THR	N-CA	6.32	1.54	1.46
1	V	362	GLU	C-N	6.31	1.39	1.33
1	V	663	VAL	CA-CB	6.31	1.61	1.53
1	A	159	VAL	CA-CB	-6.31	1.46	1.54
1	W	1139	LEU	CA-C	-6.31	1.45	1.52
1	Z	585	PHE	C-N	6.31	1.41	1.33
2	B	162	ALA	CA-C	-6.31	1.44	1.52
1	W	1147	LEU	CA-C	-6.31	1.45	1.52
2	B	26	VAL	CA-CB	6.30	1.62	1.54
1	W	107	ASN	CA-CB	6.30	1.61	1.53
1	V	18	SER	C-N	6.30	1.41	1.33
2	C	301	ILE	CA-C	-6.30	1.45	1.52
1	A	1328	SER	C-N	6.29	1.42	1.33
1	V	1340	ILE	N-CA	-6.29	1.38	1.46
1	Z	652	TYR	CA-C	-6.29	1.44	1.52
1	Z	867	HIS	CA-C	-6.29	1.44	1.52
1	V	1215	TYR	CA-CB	6.28	1.60	1.52
1	Z	7	ALA	CA-C	-6.28	1.45	1.52
1	Z	882	SER	C-N	6.28	1.39	1.33
2	B	242	SER	C-N	6.28	1.41	1.33
1	Z	979	GLN	CA-C	-6.28	1.44	1.52
1	A	1385	GLN	C-N	6.28	1.42	1.33
1	A	948	LEU	CA-CB	6.27	1.61	1.53
2	X	61	THR	CA-CB	6.27	1.60	1.52
1	V	1311	SER	CA-CB	6.27	1.64	1.53
1	Z	377	THR	C-N	6.27	1.41	1.33
1	A	767	LEU	CA-CB	6.27	1.63	1.53
2	C	286	SER	CA-CB	6.27	1.61	1.53
1	V	398	ILE	CA-C	-6.26	1.45	1.52
1	W	524	VAL	CA-C	-6.26	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	409	SER	CA-CB	6.26	1.63	1.53
1	W	1165	ILE	C-N	6.26	1.38	1.32
1	A	932	ASN	CA-CB	6.26	1.63	1.53
2	C	435	LEU	CA-C	6.26	1.61	1.52
1	W	1311	SER	C-N	6.25	1.42	1.33
1	A	1193	ILE	C-N	6.25	1.42	1.33
2	B	385	ARG	N-CA	-6.25	1.38	1.46
1	Z	88	ASP	N-CA	-6.25	1.37	1.46
1	A	960	ASN	CA-CB	6.25	1.64	1.53
1	Z	910	GLU	C-N	6.25	1.39	1.33
1	V	1324	PRO	C-N	6.25	1.42	1.34
1	W	669	SER	C-N	6.25	1.42	1.33
1	Z	826	ASN	CA-CB	6.24	1.63	1.53
1	Z	930	LEU	C-N	6.24	1.42	1.33
1	Z	1298	PRO	CA-C	-6.24	1.43	1.52
1	A	259	VAL	CA-C	-6.24	1.48	1.53
2	C	382	LEU	CA-CB	6.24	1.63	1.53
1	A	20	ALA	C-N	6.23	1.39	1.33
1	V	1070	PRO	CA-CB	6.23	1.61	1.54
1	A	850	VAL	N-CA	-6.23	1.38	1.46
1	W	262	THR	N-CA	-6.22	1.38	1.46
1	W	351	THR	CA-C	-6.22	1.45	1.53
1	W	433	VAL	CA-C	-6.22	1.45	1.52
1	Z	606	THR	C-N	6.22	1.41	1.33
1	V	729	PRO	C-N	6.22	1.43	1.33
2	X	471	TYR	CA-CB	6.22	1.63	1.53
2	X	31	ILE	CA-CB	-6.22	1.46	1.54
1	W	631	VAL	N-CA	-6.21	1.38	1.46
1	W	651	ASN	CA-CB	6.21	1.64	1.53
2	C	234	VAL	C-N	6.21	1.40	1.34
1	V	1193	ILE	C-N	6.21	1.40	1.33
1	Z	1382	TYR	CA-C	6.20	1.58	1.53
1	V	1098	ILE	CA-CB	6.20	1.61	1.54
1	V	1087	ASP	C-N	6.20	1.41	1.33
1	A	1278	ILE	C-N	6.20	1.41	1.33
2	B	86	THR	N-CA	-6.19	1.39	1.46
1	Z	1165	ILE	CA-CB	6.19	1.60	1.53
1	V	1390	ASN	C-N	6.19	1.41	1.33
1	A	600	GLY	C-N	6.19	1.41	1.33
1	V	193	PHE	C-N	6.19	1.41	1.33
1	V	1381	GLU	CA-C	6.19	1.61	1.52
1	Z	564	LEU	CA-C	6.19	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Z	419	PRO	CA-CB	-6.18	1.45	1.53
1	V	635	SER	CA-C	-6.18	1.45	1.52
2	B	210	ALA	CA-CB	6.18	1.60	1.53
1	W	918	PRO	C-N	6.18	1.41	1.33
1	A	325	ASN	CA-CB	6.18	1.63	1.53
1	V	4	PRO	N-CD	-6.17	1.39	1.47
2	C	258	VAL	CA-CB	6.17	1.61	1.53
1	Z	980	LEU	CA-CB	6.17	1.64	1.53
2	X	443	ASN	CA-C	-6.17	1.44	1.52
2	B	352	SER	CA-C	-6.17	1.44	1.52
1	Z	785	PRO	CA-C	-6.17	1.43	1.52
1	V	361	VAL	C-N	6.17	1.42	1.33
1	W	406	SER	CA-C	-6.17	1.45	1.52
1	W	902	LEU	N-CA	-6.17	1.39	1.46
1	W	1058	ALA	CA-C	-6.17	1.44	1.52
1	Z	993	GLN	CA-C	-6.16	1.45	1.52
1	A	264	GLN	CA-CB	6.16	1.64	1.53
1	V	153	ILE	C-N	6.16	1.41	1.33
1	Z	124	GLN	CA-CB	6.16	1.62	1.53
1	V	1226	ALA	CA-C	-6.16	1.45	1.52
1	W	336	LYS	N-CA	6.16	1.53	1.45
2	X	240	SER	CA-C	-6.15	1.44	1.52
1	Z	1265	PRO	C-N	6.15	1.42	1.33
1	W	1118	TYR	CA-C	-6.15	1.44	1.52
1	W	650	ASN	C-N	6.15	1.41	1.33
1	Z	46	ILE	C-N	6.14	1.41	1.33
2	B	244	ILE	C-N	6.14	1.42	1.33
1	W	996	ILE	CA-C	6.14	1.59	1.52
1	Z	632	ILE	N-CA	-6.14	1.39	1.46
1	W	151	GLN	N-CA	-6.14	1.38	1.46
2	X	29	ASN	C-N	6.14	1.42	1.34
2	X	48	LEU	N-CA	6.14	1.53	1.46
2	B	100	THR	CA-CB	6.13	1.62	1.53
1	V	621	SER	C-N	6.13	1.40	1.33
1	Z	583	LEU	CA-CB	6.13	1.60	1.53
1	A	891	TYR	CA-C	-6.13	1.44	1.52
1	V	1225	THR	N-CA	-6.13	1.38	1.46
1	V	1029	THR	C-N	6.13	1.41	1.33
1	W	348	ASN	CA-CB	6.13	1.62	1.53
1	A	288	ASN	CA-CB	6.12	1.61	1.53
1	W	1134	GLN	CA-CB	6.12	1.61	1.53
1	W	1098	ILE	CA-CB	-6.12	1.46	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	182	THR	CA-C	-6.11	1.45	1.52
1	W	522	ALA	N-CA	-6.11	1.38	1.46
1	W	681	TYR	N-CA	-6.11	1.38	1.46
2	X	422	SER	C-N	6.11	1.41	1.33
1	Z	909	SER	N-CA	-6.11	1.39	1.46
1	A	1130	ASN	N-CA	-6.10	1.38	1.46
1	W	109	PRO	CA-C	-6.10	1.44	1.52
1	W	842	TYR	C-N	6.10	1.42	1.33
1	A	379	SER	N-CA	-6.10	1.38	1.46
2	C	99	THR	C-N	6.10	1.41	1.33
1	W	40	SER	CA-CB	6.10	1.63	1.53
1	A	898	PRO	N-CA	-6.09	1.39	1.47
1	A	978	PRO	N-CD	-6.09	1.39	1.47
1	V	179	VAL	CA-C	-6.09	1.45	1.52
1	W	762	VAL	C-N	6.09	1.41	1.33
1	V	1247	ASN	CA-C	6.09	1.60	1.52
1	A	1119	TYR	CA-CB	6.09	1.60	1.52
1	Z	653	VAL	C-N	6.09	1.41	1.33
1	A	113	LEU	CA-C	-6.09	1.44	1.52
1	W	65	GLY	CA-C	6.09	1.59	1.51
2	C	210	ALA	C-N	6.08	1.41	1.33
2	C	365	VAL	CA-CB	-6.08	1.47	1.54
1	W	807	PRO	CA-C	-6.08	1.43	1.52
1	A	1357	SER	CA-C	6.08	1.60	1.52
2	B	228	VAL	CA-CB	-6.08	1.46	1.53
1	A	953	SER	N-CA	-6.08	1.39	1.46
1	Z	940	GLY	CA-C	6.08	1.60	1.51
2	B	106	VAL	CA-C	6.08	1.59	1.53
2	B	422	SER	CA-CB	6.08	1.62	1.53
1	W	473	LYS	CA-CB	6.08	1.61	1.53
1	Z	322	LEU	N-CA	-6.08	1.38	1.46
2	C	346	LEU	N-CA	-6.07	1.39	1.46
2	B	95	THR	C-N	6.07	1.40	1.33
1	A	859	THR	CA-C	-6.07	1.45	1.52
2	X	250	LEU	CA-C	-6.07	1.47	1.52
1	Z	340	TYR	CA-CB	6.07	1.63	1.53
1	W	44	ASN	CA-CB	6.06	1.62	1.53
1	Z	1116	SER	N-CA	-6.06	1.38	1.45
1	V	1017	LEU	CA-CB	6.06	1.60	1.53
2	X	247	TYR	CA-C	-6.06	1.45	1.52
1	Z	127	ASP	N-CA	-6.06	1.38	1.45
1	V	1252	ARG	NE-CZ	6.05	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	X	106	VAL	CA-CB	6.05	1.62	1.54
1	A	217	LEU	CA-C	-6.05	1.45	1.52
1	Z	48	THR	C-N	6.05	1.41	1.33
1	A	634	PRO	CA-CB	6.05	1.61	1.53
1	W	661	ASP	N-CA	-6.05	1.38	1.46
1	V	403	ASN	CA-C	-6.04	1.45	1.52
1	V	828	MET	CA-CB	6.04	1.61	1.53
1	W	1034	THR	CA-C	-6.04	1.44	1.52
2	X	327	GLN	CA-C	-6.04	1.45	1.53
1	A	935	ASN	C-N	6.04	1.42	1.33
2	X	292	LYS	N-CA	-6.04	1.38	1.46
1	A	181	GLY	N-CA	-6.04	1.39	1.45
2	C	73	TYR	N-CA	-6.04	1.39	1.46
1	V	970	THR	CA-C	-6.04	1.45	1.52
1	A	883	VAL	CA-CB	6.04	1.59	1.54
1	Z	669	SER	C-N	6.04	1.42	1.33
1	A	339	VAL	CA-C	-6.03	1.45	1.52
1	Z	477	THR	CA-CB	-6.03	1.43	1.53
2	B	29	ASN	CA-C	-6.03	1.44	1.52
1	W	419	PRO	CA-C	-6.03	1.43	1.52
1	W	655	VAL	CA-C	-6.03	1.46	1.52
1	V	613	TYR	CA-C	-6.03	1.45	1.52
1	Z	1120	ASN	N-CA	-6.03	1.38	1.46
2	X	191	SER	C-N	6.02	1.41	1.33
1	Z	1086	SER	CA-C	-6.02	1.44	1.52
2	C	220	VAL	C-N	6.02	1.41	1.33
1	V	1015	SER	C-N	6.02	1.41	1.33
1	Z	1290	TYR	CA-C	-6.02	1.45	1.52
1	V	498	LEU	C-N	6.02	1.41	1.33
1	Z	735	ASN	CA-C	-6.02	1.45	1.53
1	V	1059	TYR	CA-CB	6.02	1.58	1.53
1	W	1055	LEU	C-N	6.02	1.41	1.33
1	V	921	ILE	CA-C	-6.02	1.45	1.52
1	Z	767	LEU	CA-C	-6.01	1.45	1.53
1	Z	843	VAL	CA-C	-6.01	1.45	1.52
2	B	140	GLY	C-N	6.01	1.42	1.33
2	X	234	VAL	C-N	6.01	1.40	1.33
2	C	387	THR	C-N	6.01	1.41	1.33
1	W	225	GLY	C-N	6.01	1.42	1.33
1	Z	883	VAL	N-CA	-6.01	1.41	1.46
1	V	1114	LYS	N-CA	-6.00	1.38	1.45
1	W	1316	HIS	CE1-NE2	-6.00	1.26	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	266	ASN	C-N	6.00	1.42	1.33
1	V	547	GLN	C-N	6.00	1.42	1.33
1	A	497	PRO	CA-C	-6.00	1.47	1.53
1	W	1018	SER	CA-CB	6.00	1.60	1.52
1	V	469	THR	N-CA	-6.00	1.38	1.45
2	C	469	LEU	N-CA	-5.99	1.38	1.46
1	A	322	LEU	CA-C	-5.99	1.45	1.53
2	B	66	ASP	N-CA	5.99	1.54	1.46
2	B	67	PRO	N-CD	-5.99	1.39	1.47
2	B	194	GLY	C-N	5.99	1.42	1.33
2	C	152	ASN	C-N	5.99	1.41	1.33
1	W	993	GLN	C-N	5.99	1.41	1.33
2	B	154	THR	N-CA	5.99	1.53	1.46
1	Z	571	VAL	C-N	-5.99	1.26	1.33
1	Z	304	TYR	CA-CB	5.98	1.64	1.53
1	A	943	ALA	C-N	5.98	1.41	1.33
1	V	1388	PHE	CA-C	-5.98	1.44	1.52
2	B	156	GLY	N-CA	5.98	1.54	1.45
1	Z	1316	HIS	ND1-CE1	5.98	1.38	1.32
1	A	703	VAL	CA-C	-5.98	1.45	1.52
2	X	377	SER	C-N	5.98	1.41	1.33
1	Z	868	TYR	C-N	5.98	1.43	1.34
2	C	287	VAL	N-CA	-5.97	1.38	1.46
1	V	892	PHE	CA-C	-5.97	1.46	1.52
1	A	319	ALA	N-CA	-5.97	1.38	1.46
1	W	545	PRO	N-CD	-5.97	1.39	1.47
2	C	453	ILE	CA-C	-5.97	1.45	1.52
1	A	1105	ASN	C-N	5.97	1.41	1.33
1	W	772	SER	CA-C	-5.96	1.45	1.52
1	A	662	ALA	N-CA	5.96	1.53	1.46
1	A	1062	THR	C-N	5.96	1.41	1.33
2	C	158	ASN	C-N	5.96	1.42	1.33
1	V	245	LEU	CA-CB	5.96	1.62	1.53
1	V	1032	ALA	CA-C	-5.96	1.45	1.52
1	W	788	MET	CA-C	-5.96	1.45	1.52
1	A	1033	THR	C-N	5.96	1.41	1.33
2	X	428	ILE	CA-C	-5.96	1.44	1.52
2	B	104	TYR	CA-C	-5.95	1.45	1.52
1	W	790	LEU	C-N	5.95	1.40	1.33
2	X	416	ALA	CA-C	-5.95	1.45	1.52
1	V	1353	LEU	CA-C	-5.95	1.45	1.52
1	W	1132	TYR	CA-CB	5.95	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Z	1235	GLY	CA-C	-5.95	1.43	1.51
2	B	269	PRO	N-CA	-5.95	1.40	1.47
1	W	641	TYR	CA-C	-5.95	1.45	1.52
2	X	169	GLN	N-CA	-5.95	1.38	1.46
2	X	414	LEU	C-N	5.95	1.41	1.33
1	W	997	SER	CA-C	-5.95	1.45	1.52
1	Z	627	PHE	C-N	5.95	1.38	1.33
2	C	347	VAL	N-CA	-5.94	1.39	1.46
1	W	920	TYR	CA-CB	5.94	1.62	1.53
1	V	1020	THR	C-N	5.94	1.41	1.33
1	W	945	GLN	CA-C	-5.94	1.44	1.52
1	W	1038	ALA	CA-C	-5.94	1.44	1.52
1	W	1241	VAL	CA-C	-5.94	1.46	1.52
1	A	102	THR	C-N	5.93	1.41	1.33
1	A	814	TYR	C-N	5.93	1.41	1.33
1	A	673	THR	CA-C	-5.93	1.45	1.52
1	Z	1378	VAL	CA-CB	-5.93	1.48	1.54
1	A	28	PHE	CA-C	-5.93	1.45	1.52
1	V	1148	THR	CA-C	-5.93	1.45	1.52
2	B	146	ALA	CA-C	-5.93	1.45	1.52
1	A	547	GLN	N-CA	-5.92	1.39	1.46
1	W	588	VAL	C-N	5.92	1.40	1.34
1	V	628	TYR	CA-C	-5.92	1.45	1.53
2	C	271	SER	CA-C	-5.92	1.45	1.52
2	C	297	TYR	CA-C	-5.92	1.45	1.52
1	W	516	ASN	CA-CB	5.92	1.62	1.53
1	Z	719	THR	CB-OG1	-5.92	1.34	1.43
1	A	752	TYR	N-CA	5.92	1.53	1.46
1	Z	809	TYR	C-N	5.92	1.41	1.33
1	A	701	SER	CA-C	-5.92	1.45	1.52
1	V	976	LEU	CA-C	-5.91	1.44	1.52
1	A	1292	THR	C-N	5.91	1.41	1.33
2	X	76	VAL	N-CA	-5.91	1.39	1.46
1	A	80	TYR	CA-CB	5.91	1.61	1.53
1	V	102	THR	C-N	5.91	1.41	1.33
2	X	58	ALA	N-CA	-5.91	1.38	1.46
1	Z	857	THR	N-CA	-5.91	1.39	1.46
2	B	448	LEU	CA-C	-5.90	1.44	1.52
1	A	65	GLY	C-N	5.90	1.40	1.33
1	A	1090	PHE	C-N	5.90	1.41	1.33
1	Z	209	SER	CA-CB	5.90	1.62	1.53
1	W	90	VAL	N-CA	5.89	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	919	THR	C-N	5.89	1.39	1.33
1	V	136	VAL	N-CA	5.89	1.53	1.46
1	V	182	THR	CA-C	5.89	1.59	1.52
2	X	256	ALA	CA-C	-5.89	1.45	1.52
2	B	341	GLN	C-N	5.89	1.41	1.33
1	A	856	LEU	CA-C	-5.89	1.45	1.52
1	A	885	ASN	N-CA	-5.89	1.38	1.46
1	Z	781	SER	C-N	5.89	1.41	1.33
1	A	106	VAL	N-CA	-5.89	1.39	1.46
1	A	1030	LEU	CA-C	-5.89	1.45	1.52
1	Z	250	LEU	C-N	5.89	1.40	1.33
1	V	894	SER	CA-CB	5.89	1.63	1.53
1	W	326	PRO	CA-C	-5.89	1.45	1.52
1	V	469	THR	CA-C	5.88	1.59	1.52
1	V	624	LEU	CA-C	-5.88	1.45	1.52
1	Z	75	PHE	CA-CB	5.88	1.62	1.53
1	V	1007	LEU	CA-C	-5.88	1.45	1.52
1	A	96	SER	N-CA	-5.88	1.39	1.46
1	A	1146	THR	CA-C	-5.88	1.45	1.52
1	W	1075	GLU	C-N	5.88	1.40	1.33
1	Z	887	THR	C-N	5.88	1.41	1.33
2	X	108	LEU	CA-C	-5.88	1.45	1.53
1	V	1177	SER	CA-CB	5.87	1.63	1.53
1	A	882	SER	C-N	5.87	1.37	1.33
1	V	1162	GLN	C-N	5.87	1.41	1.33
1	W	49	VAL	C-N	5.87	1.41	1.34
1	W	630	ILE	CA-C	5.87	1.59	1.52
1	W	706	TYR	CA-CB	-5.87	1.44	1.53
1	W	1142	ASN	N-CA	-5.87	1.39	1.46
1	V	328	GLY	CA-C	-5.87	1.44	1.51
2	X	242	SER	N-CA	-5.87	1.39	1.46
1	Z	862	ASP	N-CA	-5.86	1.38	1.46
1	Z	981	VAL	N-CA	-5.86	1.39	1.46
1	W	1283	GLN	CA-C	-5.86	1.45	1.52
2	B	312	VAL	CA-C	-5.86	1.45	1.52
2	X	137	ASN	CA-C	-5.86	1.46	1.53
1	Z	1302	GLN	C-N	5.86	1.40	1.33
2	B	437	SER	CA-C	-5.85	1.45	1.52
1	W	476	ALA	CA-C	-5.85	1.45	1.52
1	A	866	LEU	CB-CG	5.85	1.65	1.53
2	X	245	VAL	N-CA	-5.85	1.39	1.46
1	Z	150	GLY	C-N	5.85	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	339	VAL	C-N	5.85	1.41	1.33
2	C	296	MET	C-N	5.85	1.41	1.33
2	X	350	GLU	CA-CB	5.85	1.62	1.53
1	W	290	PRO	N-CA	5.84	1.54	1.47
1	V	933	SER	CA-C	5.84	1.59	1.52
1	W	454	SER	CA-C	5.84	1.60	1.52
1	Z	121	LEU	CA-C	-5.84	1.45	1.52
1	Z	372	GLN	CA-C	-5.84	1.45	1.52
1	Z	758	ASN	C-N	5.84	1.39	1.33
1	Z	881	VAL	N-CA	-5.84	1.39	1.46
1	Z	1056	LEU	CB-CG	5.84	1.65	1.53
1	W	1386	LEU	C-N	5.83	1.42	1.33
1	A	303	GLY	CA-C	-5.83	1.43	1.51
2	B	264	ARG	C-N	5.83	1.41	1.33
1	Z	1246	GLU	C-N	5.83	1.41	1.33
1	V	932	ASN	CA-C	-5.83	1.46	1.53
1	V	174	MET	CA-CB	5.82	1.63	1.53
1	V	905	PRO	CA-C	5.82	1.59	1.52
1	Z	1230	VAL	CA-C	-5.82	1.45	1.52
1	W	1077	VAL	N-CA	5.82	1.53	1.46
1	Z	726	PRO	CA-CB	-5.82	1.45	1.53
2	B	159	THR	CB-OG1	-5.82	1.34	1.43
1	A	1230	VAL	CA-C	-5.82	1.47	1.53
1	A	1060	PRO	CA-C	-5.82	1.46	1.52
2	B	379	LEU	CA-C	-5.82	1.45	1.52
1	V	820	ASP	CA-C	-5.81	1.45	1.52
2	X	328	THR	CA-CB	5.81	1.62	1.53
1	Z	1218	SER	CA-CB	5.81	1.61	1.53
1	A	1292	THR	N-CA	-5.81	1.39	1.46
2	B	364	THR	C-O	-5.81	1.17	1.24
2	B	142	PRO	C-N	5.81	1.41	1.33
1	W	306	SER	CA-CB	5.81	1.62	1.53
1	A	1344	VAL	N-CA	-5.81	1.39	1.46
1	W	225	GLY	CA-C	-5.81	1.43	1.51
1	W	526	GLY	CA-C	5.81	1.56	1.52
1	W	1001	LEU	N-CA	-5.80	1.39	1.46
2	X	453	ILE	CA-CB	5.80	1.61	1.54
1	A	1350	TYR	N-CA	-5.80	1.39	1.46
1	Z	1252	ARG	CD-NE	5.80	1.54	1.46
1	V	630	ILE	N-CA	-5.80	1.40	1.46
1	W	417	SER	CA-C	-5.80	1.45	1.52
1	W	1019	VAL	CA-C	-5.80	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1007	LEU	CA-C	-5.80	1.45	1.52
2	X	422	SER	CA-CB	5.80	1.62	1.53
1	V	465	SER	C-N	5.80	1.41	1.33
1	W	578	THR	C-N	5.80	1.40	1.32
2	X	374	THR	C-N	5.79	1.41	1.33
2	B	382	LEU	N-CA	-5.79	1.39	1.46
1	A	256	SER	CA-C	-5.79	1.45	1.52
2	C	118	ALA	C-O	-5.79	1.17	1.24
1	A	973	MET	C-N	5.79	1.41	1.33
2	B	312	VAL	N-CA	-5.79	1.38	1.46
1	Z	17	GLY	CA-C	-5.79	1.43	1.51
1	A	1215	TYR	CA-CB	5.78	1.61	1.53
1	V	1033	THR	CA-C	-5.78	1.45	1.52
1	W	715	VAL	N-CA	-5.78	1.39	1.46
2	X	385	ARG	CA-C	-5.78	1.45	1.52
1	V	5	VAL	CA-C	-5.78	1.46	1.52
1	A	33	SER	C-N	5.78	1.41	1.33
1	W	469	THR	CA-C	-5.78	1.45	1.52
1	Z	739	LEU	C-N	5.78	1.41	1.33
2	C	385	ARG	CZ-NH2	5.77	1.41	1.33
1	W	704	PHE	C-N	5.77	1.40	1.33
1	Z	715	VAL	CA-C	-5.77	1.45	1.52
2	X	188	LEU	CA-CB	5.77	1.61	1.53
1	A	770	VAL	CA-C	-5.77	1.45	1.52
2	C	130	THR	CA-C	-5.77	1.45	1.52
1	W	856	LEU	N-CA	-5.77	1.39	1.46
1	Z	1203	GLY	C-N	-5.77	1.27	1.33
2	C	472	ARG	NE-CZ	5.76	1.39	1.33
1	W	843	VAL	C-N	5.76	1.39	1.33
2	X	292	LYS	CA-CB	5.76	1.62	1.53
1	V	981	VAL	N-CA	-5.76	1.39	1.46
1	A	247	ASN	C-N	5.76	1.41	1.33
1	V	1075	GLU	N-CA	-5.76	1.39	1.46
1	V	257	GLY	CA-C	-5.76	1.46	1.52
1	V	715	VAL	N-CA	5.76	1.54	1.46
2	X	270	VAL	N-CA	-5.76	1.39	1.46
2	X	454	ILE	CA-C	5.76	1.60	1.52
1	W	115	LYS	CA-C	-5.75	1.44	1.52
1	A	578	THR	N-CA	-5.75	1.38	1.45
1	A	916	PRO	CA-C	-5.75	1.45	1.52
2	X	27	THR	C-N	5.75	1.41	1.33
1	Z	7	ALA	N-CA	-5.75	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Z	145	ILE	CA-C	-5.75	1.45	1.52
1	Z	932	ASN	CA-C	-5.75	1.47	1.53
1	A	123	ALA	CA-C	-5.75	1.45	1.52
2	X	208	GLN	CA-CB	5.75	1.62	1.53
1	A	108	ILE	CA-CB	-5.75	1.46	1.54
1	W	936	TYR	C-N	5.75	1.39	1.33
1	W	619	LYS	C-N	5.75	1.41	1.33
1	W	935	ASN	N-CA	-5.75	1.38	1.47
1	W	1023	ASP	CA-C	-5.75	1.45	1.52
2	C	355	VAL	N-CA	-5.75	1.39	1.46
1	A	686	ILE	CA-CB	-5.74	1.46	1.53
1	V	767	LEU	CA-CB	5.74	1.61	1.53
1	A	977	PHE	CA-CB	5.74	1.59	1.53
2	C	84	GLY	N-CA	5.74	1.50	1.44
1	V	436	GLU	N-CA	-5.74	1.39	1.46
1	V	698	TYR	CA-C	5.74	1.60	1.53
1	V	17	GLY	CA-C	-5.74	1.45	1.52
1	Z	1119	TYR	CG-CD1	5.74	1.51	1.39
1	V	531	LYS	CA-C	5.74	1.58	1.52
1	Z	965	VAL	CA-CB	-5.74	1.47	1.53
2	C	457	ILE	CA-CB	-5.73	1.46	1.54
1	Z	1274	TYR	CA-CB	5.73	1.60	1.52
1	A	15	LEU	CA-CB	5.73	1.61	1.53
1	V	244	ALA	C-N	5.73	1.41	1.33
2	B	456	GLY	C-N	5.72	1.41	1.33
1	W	1365	VAL	CA-C	-5.72	1.45	1.52
1	Z	1097	ALA	C-N	5.72	1.40	1.33
1	W	545	PRO	CA-CB	5.72	1.60	1.54
1	Z	362	GLU	C-N	5.72	1.39	1.33
1	A	98	LEU	CA-CB	5.72	1.63	1.53
1	A	563	GLY	N-CA	-5.72	1.38	1.46
1	A	967	PRO	CA-CB	5.72	1.60	1.54
2	C	261	ALA	CA-C	-5.72	1.46	1.53
1	A	954	ILE	N-CA	-5.72	1.39	1.46
1	W	1130	ASN	CA-C	-5.72	1.45	1.53
2	C	397	ASN	CA-CB	5.71	1.62	1.53
1	A	1037	VAL	N-CA	-5.71	1.40	1.46
1	W	394	ALA	N-CA	-5.71	1.39	1.46
1	W	697	VAL	CA-C	-5.71	1.45	1.52
2	B	98	PHE	C-N	5.71	1.41	1.33
1	V	1241	VAL	N-CA	-5.71	1.39	1.46
1	A	1070	PRO	CA-C	-5.71	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1107	THR	CA-C	-5.71	1.45	1.52
1	Z	992	PHE	C-N	5.71	1.41	1.33
1	A	1241	VAL	N-CA	-5.70	1.41	1.45
1	A	597	VAL	CA-C	-5.70	1.45	1.52
1	W	543	GLN	C-O	-5.70	1.17	1.23
1	V	714	ALA	CA-C	-5.70	1.45	1.52
1	W	206	PHE	CG-CD1	5.70	1.50	1.38
1	Z	1023	ASP	N-CA	-5.70	1.39	1.46
2	B	458	ILE	C-N	5.69	1.41	1.33
1	V	546	MET	N-CA	-5.69	1.38	1.45
1	V	851	GLY	N-CA	-5.69	1.36	1.45
1	W	534	ASP	CA-C	-5.69	1.45	1.52
1	W	1088	LEU	CA-CB	5.69	1.62	1.53
1	V	455	THR	N-CA	-5.69	1.39	1.46
1	A	71	VAL	CA-C	-5.69	1.46	1.52
2	B	334	LEU	CA-CB	5.69	1.60	1.53
1	W	716	THR	N-CA	-5.69	1.38	1.46
2	C	439	GLN	CA-CB	5.69	1.62	1.53
1	W	268	SER	C-O	5.69	1.30	1.24
1	A	972	ASN	C-N	5.69	1.42	1.33
2	B	242	SER	CA-CB	5.68	1.60	1.53
1	A	838	ASN	N-CA	-5.68	1.39	1.46
2	X	267	THR	CA-C	-5.68	1.46	1.53
1	V	1328	SER	CA-C	-5.68	1.45	1.52
1	W	188	LEU	C-N	5.68	1.40	1.33
1	A	449	SER	CA-C	-5.68	1.45	1.52
1	A	112	TYR	CA-C	5.67	1.60	1.52
1	V	650	ASN	CA-C	-5.67	1.45	1.52
2	X	408	SER	C-N	5.67	1.41	1.33
1	A	983	GLN	C-N	5.67	1.41	1.33
1	A	1218	SER	N-CA	5.67	1.53	1.46
1	V	19	GLY	CA-C	5.67	1.59	1.51
1	Z	508	VAL	C-O	-5.67	1.18	1.24
1	V	810	ASN	N-CA	-5.67	1.39	1.46
1	V	461	SER	CA-CB	5.67	1.62	1.53
1	W	376	VAL	CA-C	5.67	1.59	1.52
1	W	468	ILE	CA-C	-5.67	1.45	1.52
1	Z	233	GLU	N-CA	-5.67	1.38	1.46
2	C	114	THR	N-CA	-5.67	1.39	1.46
2	X	431	LEU	C-N	5.67	1.41	1.33
1	W	247	ASN	N-CA	-5.66	1.38	1.46
1	Z	699	ASN	N-CA	5.66	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	168	SER	CA-CB	5.66	1.62	1.53
1	W	1288	LYS	C-O	-5.66	1.17	1.24
2	X	342	ASN	CA-C	5.66	1.61	1.53
1	Z	95	VAL	CA-C	-5.66	1.45	1.52
1	A	1226	ALA	N-CA	-5.66	1.39	1.46
2	C	140	GLY	C-N	5.66	1.44	1.33
1	W	411	VAL	CA-C	-5.66	1.46	1.52
1	W	985	LEU	CA-CB	5.66	1.62	1.53
1	V	690	VAL	N-CA	-5.66	1.39	1.46
1	Z	1344	VAL	CA-CB	-5.66	1.46	1.54
1	A	625	GLY	C-N	5.65	1.41	1.33
1	A	1045	VAL	C-N	5.65	1.41	1.33
1	V	1218	SER	C-N	5.65	1.41	1.33
1	W	399	THR	CA-C	-5.65	1.45	1.52
1	Z	432	ALA	C-N	5.65	1.41	1.33
1	V	59	THR	C-N	5.65	1.41	1.33
1	Z	89	LYS	CA-CB	5.65	1.63	1.53
1	A	382	LYS	CA-C	5.64	1.59	1.52
1	W	252	ASP	N-CA	5.64	1.52	1.45
2	X	307	SER	C-N	5.64	1.41	1.33
1	Z	728	SER	C-N	5.64	1.41	1.33
1	W	7	ALA	CA-C	-5.64	1.45	1.52
1	V	752	TYR	C-N	5.64	1.41	1.33
1	W	1068	ALA	CA-C	-5.64	1.45	1.52
2	C	348	ASN	N-CA	-5.64	1.39	1.46
1	W	474	LEU	C-N	5.64	1.39	1.33
1	Z	1080	GLN	CA-CB	5.64	1.62	1.53
1	Z	1384	ALA	C-N	5.64	1.41	1.33
1	V	818	LYS	N-CA	-5.63	1.39	1.46
1	V	1199	ALA	C-N	5.63	1.41	1.33
1	W	799	SER	N-CA	-5.63	1.38	1.46
1	Z	35	ILE	C-O	-5.63	1.18	1.24
2	C	173	THR	C-N	5.63	1.41	1.33
1	Z	1171	VAL	CA-C	5.63	1.58	1.52
2	B	222	THR	CA-C	5.63	1.59	1.52
2	B	316	LEU	N-CA	-5.63	1.39	1.46
1	W	692	PHE	CA-C	-5.63	1.45	1.52
1	V	533	SER	CA-CB	5.63	1.62	1.53
1	W	765	GLY	CA-C	-5.63	1.45	1.51
2	X	298	ASN	C-N	5.63	1.40	1.33
1	Z	197	THR	C-N	5.63	1.39	1.33
1	Z	322	LEU	C-N	5.63	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1320	PRO	N-CA	5.62	1.52	1.46
1	V	387	VAL	CA-CB	-5.62	1.47	1.53
1	W	563	GLY	CA-C	-5.62	1.46	1.51
1	Z	329	ASN	CA-C	-5.62	1.45	1.52
1	W	873	GLY	C-N	5.62	1.40	1.33
1	Z	1299	GLN	CA-CB	5.62	1.61	1.53
1	W	1107	THR	CA-C	-5.62	1.45	1.52
1	A	1016	ILE	CB-CG1	5.61	1.64	1.53
1	V	418	THR	CA-CB	5.61	1.61	1.53
2	X	216	LEU	CB-CG	5.61	1.64	1.53
2	X	407	ALA	C-N	5.61	1.41	1.33
1	A	1237	SER	CA-CB	5.61	1.62	1.53
1	V	1254	ALA	C-O	-5.61	1.18	1.24
2	C	89	ILE	C-O	-5.61	1.17	1.24
1	Z	854	ILE	N-CA	-5.61	1.39	1.46
2	B	137	ASN	CA-CB	5.60	1.61	1.53
1	Z	337	PHE	CA-C	-5.60	1.45	1.52
1	A	1293	SER	CA-CB	5.60	1.63	1.53
1	W	469	THR	N-CA	-5.60	1.39	1.46
1	Z	1184	ALA	CA-CB	5.60	1.61	1.53
1	A	553	LEU	CA-CB	5.60	1.60	1.52
2	C	210	ALA	N-CA	-5.60	1.38	1.46
2	B	343	LEU	C-N	5.60	1.41	1.33
1	Z	3	PRO	N-CD	-5.60	1.40	1.47
1	W	85	ASP	C-O	-5.59	1.17	1.24
1	W	554	THR	CA-C	-5.59	1.45	1.52
1	W	833	TYR	CA-C	-5.59	1.45	1.52
1	W	1055	LEU	CA-C	-5.59	1.45	1.52
1	V	238	PRO	N-CA	-5.59	1.40	1.47
1	V	1057	THR	C-N	5.59	1.40	1.33
1	W	801	LEU	CA-C	-5.59	1.45	1.52
1	V	1217	GLY	N-CA	-5.59	1.34	1.44
1	W	855	LYS	N-CA	-5.59	1.39	1.46
1	A	651	ASN	CA-C	-5.59	1.45	1.52
2	X	160	LEU	N-CA	-5.59	1.39	1.46
1	V	1173	GLN	C-N	5.58	1.38	1.33
1	A	457	PRO	C-N	5.58	1.40	1.33
2	B	180	PRO	CA-C	5.58	1.58	1.52
2	C	149	GLN	CA-C	-5.58	1.46	1.52
1	Z	354	GLU	CA-CB	5.58	1.62	1.53
1	V	296	LEU	CA-CB	5.58	1.63	1.53
1	W	1184	ALA	CA-C	-5.58	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Z	1381	GLU	C-N	5.58	1.39	1.33
2	B	192	LEU	N-CA	-5.58	1.39	1.46
1	A	327	SER	CA-CB	5.58	1.63	1.54
1	A	860	THR	N-CA	-5.58	1.39	1.46
2	B	302	MET	CA-C	-5.58	1.45	1.52
1	A	1096	SER	N-CA	-5.58	1.39	1.46
1	V	1129	THR	CA-C	-5.58	1.46	1.52
1	A	378	THR	C-N	5.57	1.41	1.33
2	C	56	PRO	CA-C	-5.57	1.46	1.52
1	A	617	ASN	CA-C	5.57	1.58	1.52
2	X	366	ASN	C-N	5.57	1.41	1.33
1	V	1172	VAL	C-O	-5.57	1.18	1.24
1	V	1185	VAL	CA-C	-5.57	1.45	1.52
1	V	29	VAL	N-CA	-5.57	1.39	1.46
1	V	1026	THR	N-CA	-5.56	1.38	1.45
1	V	34	ASN	CA-CB	5.56	1.62	1.54
1	W	293	PHE	N-CA	-5.56	1.39	1.46
1	W	1319	SER	CA-CB	5.56	1.62	1.53
1	W	175	GLN	C-N	5.56	1.41	1.33
2	X	346	LEU	N-CA	5.56	1.52	1.46
1	Z	176	GLU	N-CA	5.56	1.53	1.45
1	V	571	VAL	CA-CB	5.56	1.57	1.54
1	V	999	THR	C-N	5.56	1.41	1.33
1	W	1071	TRP	C-N	5.56	1.41	1.33
1	A	1022	HIS	CA-C	-5.56	1.45	1.52
1	V	835	ALA	CA-C	-5.56	1.45	1.52
1	W	841	ILE	CA-C	-5.56	1.46	1.52
1	W	383	TYR	CA-CB	5.55	1.62	1.53
2	X	125	VAL	N-CA	-5.55	1.40	1.46
1	A	421	LEU	CA-C	-5.55	1.45	1.52
1	V	886	VAL	CA-CB	-5.55	1.47	1.54
1	W	70	SER	N-CA	-5.55	1.39	1.46
1	A	1063	GLY	CA-C	-5.55	1.45	1.52
1	V	1388	PHE	C-N	5.55	1.41	1.33
1	Z	191	GLN	N-CA	5.55	1.53	1.45
2	X	143	LEU	CA-CB	5.55	1.62	1.53
1	A	248	THR	CA-C	-5.54	1.45	1.52
2	C	164	GLN	CA-C	-5.54	1.45	1.52
1	Z	571	VAL	N-CA	-5.54	1.39	1.46
1	W	1183	PHE	C-N	5.54	1.41	1.33
1	W	485	LEU	N-CA	-5.54	1.39	1.45
1	Z	864	ALA	C-N	5.54	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	757	VAL	N-CA	-5.54	1.39	1.46
1	W	1221	GLY	N-CA	-5.53	1.40	1.44
1	A	1081	PRO	CA-C	-5.53	1.44	1.52
1	V	843	VAL	CA-C	5.53	1.59	1.52
1	W	866	LEU	CB-CG	5.53	1.64	1.53
1	A	1294	ILE	CB-CG1	5.53	1.64	1.53
1	V	56	ASN	CA-C	-5.53	1.46	1.52
2	X	161	VAL	CA-C	-5.53	1.46	1.52
1	Z	315	THR	C-N	5.53	1.40	1.33
1	Z	515	ILE	CA-CB	5.53	1.61	1.54
1	Z	741	GLN	CA-C	-5.52	1.45	1.52
1	A	436	GLU	CA-C	-5.52	1.45	1.52
1	A	925	THR	CB-OG1	-5.52	1.34	1.43
1	Z	1089	GLN	C-N	5.52	1.42	1.33
1	A	512	TYR	CA-CB	5.52	1.62	1.53
1	W	434	ALA	CA-CB	5.52	1.62	1.53
1	Z	119	GLY	C-N	5.52	1.41	1.33
1	A	236	TYR	CA-C	-5.51	1.45	1.52
1	A	1171	VAL	CA-C	5.51	1.60	1.52
1	Z	336	LYS	N-CA	-5.51	1.39	1.46
1	W	1107	THR	N-CA	5.51	1.53	1.46
1	A	1247	ASN	N-CA	-5.51	1.39	1.46
1	V	955	SER	CA-C	-5.51	1.45	1.52
1	Z	757	VAL	N-CA	-5.51	1.38	1.46
1	A	577	GLY	N-CA	5.51	1.50	1.45
1	A	998	ILE	N-CA	5.51	1.51	1.46
2	C	119	SER	C-N	5.51	1.40	1.33
1	W	831	GLY	C-N	5.50	1.41	1.33
1	W	31	ASN	CA-CB	5.50	1.61	1.53
2	X	272	ALA	CA-C	-5.50	1.46	1.52
1	V	556	VAL	C-O	-5.50	1.18	1.23
1	V	966	ILE	C-N	5.50	1.40	1.33
2	X	211	SER	C-N	5.50	1.40	1.33
1	V	548	VAL	CA-C	-5.50	1.46	1.52
2	C	27	THR	C-N	5.50	1.39	1.33
1	Z	49	VAL	C-O	-5.50	1.18	1.24
2	B	152	ASN	CA-CB	5.49	1.59	1.52
2	B	311	TYR	CA-C	-5.49	1.46	1.52
1	A	859	THR	C-O	-5.49	1.17	1.23
1	V	900	TYR	C-N	5.49	1.41	1.33
1	V	270	PRO	CA-C	-5.48	1.44	1.52
1	A	64	THR	C-N	5.48	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	V	338	TYR	N-CA	-5.48	1.40	1.46
1	V	613	TYR	C-O	-5.48	1.17	1.23
1	Z	1257	GLN	C-N	5.48	1.38	1.33
1	V	313	ASN	CA-C	5.48	1.59	1.52
2	X	116	GLU	C-O	-5.48	1.17	1.24
1	V	761	PRO	CA-C	5.48	1.60	1.52
2	X	403	LEU	C-O	-5.48	1.17	1.24
1	W	159	VAL	CA-C	-5.47	1.45	1.52
1	W	1177	SER	CA-CB	5.47	1.61	1.53
2	X	78	GLN	CA-C	-5.47	1.46	1.52
2	B	199	THR	C-N	5.47	1.41	1.33
2	B	462	VAL	C-N	5.47	1.41	1.33
2	C	335	MET	CA-CB	5.47	1.61	1.53
1	V	1300	GLU	C-N	5.47	1.40	1.33
1	W	549	MET	C-N	5.47	1.41	1.33
1	W	1025	VAL	CA-C	-5.47	1.46	1.52
1	Z	1098	ILE	C-N	5.47	1.41	1.33
1	V	292	SER	N-CA	-5.46	1.39	1.46
1	Z	657	ILE	CA-C	-5.46	1.46	1.52
1	V	962	THR	CA-C	-5.46	1.46	1.52
1	Z	636	ILE	CA-C	-5.46	1.46	1.52
2	C	109	SER	CA-CB	5.46	1.60	1.52
1	A	341	LEU	C-N	5.46	1.40	1.33
1	Z	460	ILE	C-N	5.46	1.40	1.33
1	V	1361	ALA	C-N	5.46	1.38	1.33
1	W	276	ASN	C-N	5.46	1.40	1.33
1	Z	469	THR	CB-OG1	5.46	1.52	1.43
1	W	1311	SER	CA-CB	5.46	1.62	1.53
1	A	875	TYR	CA-CB	5.45	1.63	1.53
1	W	526	GLY	N-CA	-5.45	1.38	1.45
1	Z	1229	THR	CA-CB	5.45	1.61	1.53
1	V	345	GLY	CA-C	-5.45	1.44	1.51
1	V	1394	THR	N-CA	-5.45	1.39	1.46
1	W	176	GLU	CA-CB	5.45	1.61	1.53
2	X	388	SER	C-N	5.45	1.41	1.33
1	Z	53	ILE	CA-CB	5.45	1.60	1.54
1	A	824	VAL	N-CA	-5.45	1.39	1.46
1	W	899	LEU	N-CA	-5.45	1.39	1.46
2	B	109	SER	CA-C	-5.45	1.46	1.53
1	V	902	LEU	C-N	5.45	1.40	1.33
1	W	75	PHE	C-N	-5.44	1.26	1.33
1	W	1148	THR	CA-C	-5.44	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	273	GLN	CA-CB	5.44	1.59	1.52
1	W	592	SER	C-N	5.44	1.41	1.33
1	W	1144	LEU	CA-C	-5.44	1.46	1.52
1	Z	77	THR	C-O	-5.44	1.17	1.23
1	A	283	ILE	C-O	-5.44	1.18	1.24
2	C	270	VAL	C-N	5.44	1.40	1.33
1	A	569	PRO	C-N	5.44	1.41	1.33
1	V	248	THR	C-N	5.44	1.41	1.33
1	Z	921	ILE	CA-C	-5.44	1.46	1.52
1	V	696	SER	C-O	-5.43	1.17	1.24
2	B	429	THR	C-N	5.43	1.41	1.33
1	W	397	THR	CA-CB	5.43	1.61	1.53
1	A	1232	ASP	N-CA	-5.43	1.38	1.45
1	Z	292	SER	CA-C	-5.43	1.46	1.52
1	V	1187	THR	CA-CB	5.43	1.60	1.53
1	W	40	SER	C-N	5.43	1.41	1.33
2	X	231	ASN	CA-C	-5.43	1.45	1.52
2	X	381	SER	CA-CB	5.43	1.61	1.53
1	W	1020	THR	CB-OG1	-5.43	1.35	1.43
1	A	253	THR	CA-C	-5.43	1.45	1.52
1	V	315	THR	C-N	5.43	1.41	1.33
1	V	613	TYR	C-N	5.43	1.41	1.33
1	V	710	ASN	CA-CB	5.43	1.59	1.52
1	V	1241	VAL	C-N	-5.43	1.27	1.33
2	X	322	THR	N-CA	-5.43	1.39	1.46
1	W	162	SER	C-N	5.42	1.42	1.33
1	W	843	VAL	N-CA	-5.42	1.40	1.46
1	A	875	TYR	C-N	5.42	1.40	1.33
1	Z	637	SER	CA-C	-5.42	1.46	1.52
1	Z	978	PRO	N-CA	-5.42	1.40	1.47
1	W	1288	LYS	CA-C	-5.42	1.45	1.52
2	B	356	GLN	C-N	5.41	1.40	1.33
2	X	395	SER	CA-CB	5.41	1.61	1.53
1	Z	548	VAL	C-O	-5.41	1.18	1.24
1	Z	1315	VAL	C-N	5.41	1.40	1.33
2	B	329	LEU	C-N	5.41	1.42	1.33
2	C	427	SER	CA-C	-5.41	1.45	1.52
1	W	700	PRO	N-CD	-5.41	1.40	1.47
1	Z	207	ILE	C-N	5.41	1.40	1.33
1	W	537	LEU	CA-CB	5.41	1.60	1.53
1	Z	564	LEU	CA-CB	5.41	1.61	1.53
1	Z	577	GLY	C-N	5.41	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	561	PRO	C-N	5.41	1.40	1.33
1	Z	9	GLY	CA-C	-5.41	1.44	1.51
2	B	244	ILE	N-CA	-5.41	1.39	1.46
1	V	400	LEU	CA-C	5.41	1.59	1.52
1	W	506	ILE	C-N	5.41	1.40	1.33
1	W	571	VAL	C-N	-5.40	1.28	1.33
1	Z	94	VAL	CA-C	-5.40	1.46	1.52
1	Z	552	ASN	CA-C	-5.40	1.45	1.52
1	W	1166	VAL	CA-CB	-5.40	1.47	1.54
1	A	48	THR	C-N	5.40	1.40	1.33
1	A	261	PHE	C-N	5.40	1.40	1.33
1	W	322	LEU	C-N	5.40	1.41	1.33
1	Z	59	THR	N-CA	-5.40	1.39	1.46
1	Z	646	PHE	C-N	5.40	1.41	1.33
2	B	449	VAL	N-CA	-5.40	1.39	1.46
1	A	198	VAL	CA-CB	5.39	1.61	1.54
1	A	751	TYR	C-N	5.39	1.41	1.33
1	V	1350	TYR	C-N	5.39	1.38	1.33
2	X	389	LEU	C-N	5.39	1.40	1.33
1	V	1371	VAL	C-N	5.39	1.40	1.33
1	W	705	GLY	CA-C	-5.39	1.43	1.51
2	X	28	ILE	CA-C	-5.39	1.46	1.52
1	W	804	MET	CA-C	-5.39	1.45	1.53
1	A	405	TYR	C-O	-5.39	1.19	1.24
1	A	591	THR	C-N	5.39	1.40	1.33
1	A	1301	PHE	CA-CB	5.39	1.62	1.53
2	B	216	LEU	N-CA	-5.39	1.39	1.46
1	V	856	LEU	CA-CB	5.39	1.62	1.53
1	V	1260	ALA	C-O	-5.39	1.17	1.24
1	A	92	PHE	N-CA	5.39	1.52	1.45
1	A	813	ILE	CA-C	-5.39	1.45	1.52
1	A	1383	PRO	N-CD	-5.39	1.40	1.47
2	C	412	SER	C-O	-5.39	1.18	1.24
1	V	294	THR	N-CA	-5.39	1.39	1.45
1	Z	381	ASN	CA-CB	5.39	1.61	1.53
1	Z	1158	THR	N-CA	-5.39	1.39	1.46
1	V	123	ALA	N-CA	-5.38	1.39	1.45
1	Z	839	THR	N-CA	-5.38	1.38	1.45
1	V	1020	THR	N-CA	-5.38	1.40	1.46
2	C	220	VAL	CA-C	-5.38	1.46	1.52
1	W	593	TYR	N-CA	-5.38	1.39	1.46
1	Z	755	GLN	C-N	5.38	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	811	LEU	CA-C	-5.38	1.48	1.53
1	A	107	ASN	CA-C	-5.38	1.46	1.52
2	C	462	VAL	N-CA	-5.38	1.40	1.46
2	B	229	ILE	CA-CB	-5.37	1.47	1.54
1	V	637	SER	CA-C	-5.37	1.45	1.52
1	W	1392	THR	CA-C	-5.37	1.46	1.52
2	X	53	GLN	CA-C	5.37	1.59	1.52
1	W	1216	THR	CA-CB	5.37	1.61	1.53
1	W	356	VAL	CA-C	-5.37	1.46	1.52
1	W	823	THR	CA-C	-5.37	1.46	1.52
1	A	681	TYR	CA-C	5.37	1.58	1.52
1	Z	1293	SER	CA-C	-5.37	1.46	1.52
1	Z	883	VAL	C-N	-5.37	1.26	1.33
2	C	97	GLY	N-CA	5.36	1.52	1.45
1	V	562	PHE	N-CA	-5.36	1.39	1.46
1	W	245	LEU	C-N	5.36	1.40	1.33
1	A	226	ASN	CA-C	-5.36	1.45	1.52
1	V	269	VAL	N-CA	-5.36	1.40	1.46
1	V	345	GLY	C-N	5.36	1.40	1.33
1	V	1137	ALA	C-N	5.36	1.40	1.33
1	W	508	VAL	CA-C	-5.36	1.46	1.52
1	W	570	SER	C-N	5.36	1.39	1.33
1	Z	724	SER	CA-CB	5.36	1.61	1.53
1	Z	588	VAL	N-CA	-5.36	1.40	1.46
1	A	1004	LEU	CA-CB	5.36	1.61	1.54
1	A	1386	LEU	CA-C	-5.36	1.46	1.52
1	V	499	THR	C-N	5.36	1.40	1.33
1	A	290	PRO	CA-CB	-5.35	1.46	1.53
1	V	456	PRO	N-CD	-5.35	1.40	1.47
1	V	523	TYR	N-CA	-5.35	1.40	1.46
1	V	887	THR	C-N	5.35	1.40	1.33
1	Z	298	TYR	C-N	5.35	1.40	1.33
1	W	348	ASN	CA-C	-5.35	1.45	1.52
1	W	1015	SER	CA-CB	5.35	1.61	1.53
1	V	1243	ILE	CA-C	-5.35	1.46	1.52
1	W	1380	SER	CA-CB	5.35	1.62	1.53
1	Z	235	TYR	C-N	5.35	1.41	1.33
1	A	704	PHE	CA-C	5.34	1.59	1.52
2	B	65	TYR	CA-C	-5.34	1.45	1.52
1	V	207	ILE	C-N	5.34	1.41	1.33
1	V	1094	ASN	CA-C	-5.34	1.47	1.52
2	X	380	SER	CA-C	5.34	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	685	ASN	N-CA	-5.34	1.39	1.46
1	A	970	THR	CA-C	5.34	1.60	1.52
2	C	442	VAL	CA-C	5.34	1.60	1.52
1	W	1073	ILE	CB-CG1	5.34	1.64	1.53
1	A	763	LEU	CA-CB	5.34	1.61	1.53
1	W	38	SER	CA-C	-5.34	1.46	1.52
1	Z	325	ASN	N-CA	-5.34	1.39	1.45
2	X	228	VAL	CA-CB	5.34	1.60	1.53
1	Z	312	SER	CA-C	-5.34	1.46	1.52
1	A	960	ASN	N-CA	-5.34	1.39	1.46
1	W	414	THR	N-CA	-5.34	1.39	1.46
1	A	253	THR	N-CA	-5.33	1.39	1.46
1	V	221	MET	N-CA	-5.33	1.39	1.46
1	V	614	ASP	N-CA	-5.33	1.39	1.46
1	V	303	GLY	CA-C	-5.33	1.44	1.51
1	V	780	SER	CA-CB	5.33	1.63	1.53
1	Z	882	SER	CA-C	-5.33	1.46	1.52
1	A	395	GLY	C-N	5.33	1.40	1.33
1	A	1318	GLY	CA-C	-5.33	1.44	1.51
1	W	312	SER	C-N	5.33	1.41	1.33
1	V	68	THR	C-N	5.33	1.41	1.33
1	V	1095	PRO	CA-CB	5.33	1.63	1.53
1	A	1241	VAL	CA-CB	5.33	1.58	1.54
1	W	21	PRO	CA-CB	-5.33	1.46	1.53
1	W	130	GLY	C-N	5.33	1.41	1.33
1	W	203	TYR	CZ-OH	5.33	1.49	1.38
1	A	1190	SER	C-N	5.32	1.40	1.33
2	B	247	TYR	CA-C	-5.32	1.46	1.52
1	V	944	VAL	C-N	5.32	1.40	1.33
1	V	1326	TYR	CE2-CZ	5.32	1.51	1.38
1	W	660	PRO	CA-CB	5.32	1.61	1.53
1	W	696	SER	N-CA	-5.32	1.40	1.46
1	Z	619	LYS	C-N	5.32	1.40	1.33
1	W	486	LEU	N-CA	-5.32	1.39	1.46
1	W	495	ASN	C-N	5.32	1.38	1.33
1	W	1072	PHE	CA-C	-5.32	1.46	1.52
1	Z	753	PHE	N-CA	-5.32	1.40	1.46
1	W	506	ILE	N-CA	-5.32	1.40	1.46
1	A	118	PRO	C-N	5.32	1.41	1.33
1	W	369	PHE	CA-CB	-5.32	1.45	1.53
1	A	281	ALA	CA-C	-5.31	1.46	1.52
1	A	1271	LYS	C-N	5.31	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	V	440	VAL	N-CA	-5.31	1.39	1.46
1	V	487	THR	C-N	5.31	1.41	1.33
1	W	348	ASN	C-N	5.31	1.40	1.33
1	W	743	ALA	C-N	5.31	1.40	1.33
1	W	954	ILE	C-O	-5.31	1.17	1.24
1	Z	1159	GLY	CA-C	-5.31	1.45	1.52
1	Z	540	ALA	N-CA	-5.31	1.39	1.46
1	V	57	ALA	CA-C	-5.31	1.46	1.52
1	Z	1295	LEU	CA-CB	5.31	1.61	1.53
2	B	218	PRO	N-CA	5.31	1.54	1.47
2	C	71	VAL	CA-CB	-5.31	1.47	1.54
1	Z	312	SER	C-N	5.31	1.41	1.33
1	Z	1146	THR	C-N	5.31	1.41	1.33
2	C	257	GLN	C-N	5.31	1.40	1.33
1	W	433	VAL	CA-CB	5.31	1.61	1.54
2	B	402	SER	CA-CB	5.30	1.61	1.53
1	V	776	ALA	C-N	5.30	1.40	1.33
1	V	169	GLN	N-CA	-5.30	1.39	1.46
1	A	179	VAL	C-N	5.30	1.39	1.33
1	V	425	VAL	C-O	-5.30	1.18	1.24
1	W	637	SER	CA-C	-5.30	1.46	1.52
1	Z	832	LEU	CA-C	-5.30	1.46	1.52
1	Z	1008	ASN	CA-C	-5.30	1.46	1.52
1	A	345	GLY	CA-C	-5.30	1.44	1.52
1	A	493	TYR	N-CA	-5.30	1.39	1.45
1	A	726	PRO	CA-CB	-5.30	1.46	1.53
1	A	729	PRO	C-N	5.29	1.41	1.33
2	B	56	PRO	CA-C	-5.29	1.44	1.52
2	C	63	TYR	C-N	5.29	1.38	1.33
1	W	372	GLN	N-CA	-5.29	1.39	1.46
1	W	807	PRO	N-CA	-5.29	1.40	1.47
2	C	449	VAL	CA-CB	5.29	1.60	1.54
1	Z	160	LEU	CA-CB	5.29	1.61	1.53
2	C	107	SER	N-CA	-5.29	1.39	1.46
1	Z	656	THR	CA-C	-5.29	1.46	1.52
1	A	33	SER	N-CA	-5.29	1.39	1.46
1	A	222	GLN	CA-CB	5.29	1.60	1.53
1	A	712	GLY	C-N	5.29	1.40	1.33
2	X	163	THR	N-CA	-5.28	1.39	1.46
1	Z	662	ALA	C-N	5.28	1.40	1.33
2	C	174	PHE	C-N	5.28	1.40	1.33
2	C	284	LYS	CA-CB	5.28	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	1243	ILE	N-CA	-5.28	1.39	1.46
1	W	1312	GLN	CA-CB	5.28	1.62	1.53
1	Z	155	GLY	C-N	5.28	1.40	1.33
1	A	89	LYS	N-CA	-5.27	1.39	1.46
1	V	110	LEU	C-N	5.27	1.41	1.34
1	W	738	TYR	CA-C	-5.27	1.44	1.52
1	W	977	PHE	C-N	5.27	1.40	1.34
1	Z	459	GLU	CA-CB	5.27	1.62	1.53
1	A	1099	LEU	CA-C	-5.27	1.46	1.52
2	C	105	THR	CA-C	-5.27	1.46	1.52
1	A	815	ILE	C-O	-5.27	1.17	1.23
1	W	145	ILE	CB-CG1	5.27	1.64	1.53
1	A	1244	THR	C-O	-5.26	1.17	1.23
2	B	315	LEU	N-CA	-5.26	1.40	1.46
1	W	623	ASN	CG-ND2	5.26	1.44	1.33
1	W	1171	VAL	N-CA	-5.26	1.40	1.46
1	V	168	THR	C-N	5.26	1.41	1.33
1	V	901	GLN	CA-C	-5.26	1.46	1.53
1	W	888	ALA	CA-C	-5.26	1.46	1.52
2	B	182	VAL	C-N	5.26	1.41	1.33
1	V	494	GLU	CA-C	-5.26	1.45	1.52
1	V	571	VAL	C-O	-5.26	1.20	1.24
1	A	1104	VAL	N-CA	-5.26	1.39	1.46
1	W	1082	PHE	C-N	5.26	1.40	1.33
1	A	356	VAL	N-CA	-5.26	1.40	1.46
1	V	1108	VAL	N-CA	-5.26	1.40	1.46
1	W	797	VAL	C-N	5.26	1.40	1.34
1	W	1209	LEU	CA-CB	5.26	1.60	1.53
1	Z	767	LEU	C-N	5.26	1.40	1.33
1	Z	1336	PRO	C-N	5.26	1.41	1.33
2	C	411	SER	CA-CB	5.25	1.61	1.53
1	V	793	SER	CA-C	-5.25	1.46	1.53
1	W	568	ALA	CA-C	-5.25	1.47	1.53
1	Z	268	SER	N-CA	-5.25	1.40	1.46
1	V	167	THR	N-CA	-5.25	1.40	1.46
1	Z	899	LEU	CA-C	-5.25	1.45	1.52
1	A	1095	PRO	N-CD	5.25	1.55	1.47
2	C	303	PRO	C-N	5.25	1.40	1.33
1	V	252	ASP	N-CA	-5.25	1.40	1.46
1	W	1080	GLN	CA-CB	-5.25	1.45	1.53
1	V	250	LEU	C-N	5.25	1.40	1.33
2	B	410	LEU	C-N	5.25	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Z	360	VAL	C-N	5.25	1.41	1.33
1	V	599	PHE	C-N	5.24	1.39	1.33
1	V	1126	THR	CA-CB	-5.24	1.46	1.53
1	W	925	THR	CA-C	5.24	1.59	1.52
1	A	413	ILE	C-O	5.24	1.29	1.24
1	A	1392	THR	C-N	5.24	1.40	1.33
1	V	463	THR	CA-C	-5.24	1.46	1.52
1	W	531	LYS	N-CA	-5.24	1.40	1.46
1	V	390	ILE	N-CA	5.24	1.52	1.46
1	W	499	THR	C-N	5.24	1.40	1.33
1	W	960	ASN	CA-CB	5.24	1.62	1.53
1	W	1313	PHE	CA-CB	5.24	1.64	1.53
1	Z	1333	ARG	CA-CB	5.24	1.59	1.52
1	W	246	ILE	CA-C	-5.24	1.46	1.52
2	X	221	VAL	CA-CB	5.24	1.59	1.54
1	Z	861	THR	N-CA	-5.24	1.38	1.45
1	Z	879	LYS	CA-CB	5.24	1.60	1.53
1	Z	1326	TYR	C-N	5.24	1.40	1.33
1	V	1153	GLY	C-N	5.23	1.41	1.33
1	A	157	ASN	C-O	-5.23	1.18	1.24
1	W	540	ALA	CA-C	-5.23	1.46	1.52
1	W	1237	SER	C-N	5.23	1.39	1.33
1	A	129	THR	CA-C	-5.23	1.45	1.52
1	A	544	GLU	N-CA	-5.23	1.40	1.46
1	A	874	GLN	C-N	5.23	1.41	1.33
1	A	996	ILE	CA-C	-5.23	1.48	1.52
1	W	819	ILE	N-CA	-5.23	1.39	1.46
1	W	1080	GLN	CA-C	-5.23	1.46	1.52
1	Z	328	GLY	C-N	5.23	1.40	1.33
1	V	925	THR	N-CA	-5.23	1.39	1.46
1	W	1041	THR	N-CA	-5.23	1.39	1.46
1	W	1292	THR	CA-C	-5.23	1.46	1.52
1	Z	1297	TYR	CA-CB	5.23	1.61	1.53
1	A	533	SER	CA-CB	5.22	1.62	1.53
2	B	295	GLY	C-N	5.22	1.40	1.33
2	C	35	SER	C-O	-5.22	1.17	1.24
1	A	530	ASN	CA-C	-5.22	1.46	1.53
1	Z	1062	THR	N-CA	-5.22	1.39	1.46
1	Z	95	VAL	C-N	5.22	1.40	1.33
2	C	138	GLN	C-N	5.22	1.41	1.34
2	C	95	THR	CA-C	-5.22	1.47	1.52
1	V	206	PHE	CA-C	-5.22	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	V	838	ASN	CA-C	-5.21	1.46	1.53
1	V	660	PRO	C-N	5.21	1.41	1.33
2	B	145	GLY	C-N	5.21	1.41	1.33
1	Z	811	LEU	C-N	5.21	1.41	1.33
1	A	765	GLY	CA-C	-5.21	1.47	1.51
1	A	497	PRO	N-CA	-5.21	1.42	1.46
1	Z	838	ASN	CA-CB	5.21	1.60	1.53
1	A	170	ALA	CA-C	-5.20	1.45	1.52
1	A	996	ILE	C-N	5.20	1.40	1.33
1	W	1221	GLY	CA-C	-5.20	1.45	1.52
1	Z	1120	ASN	CA-C	5.20	1.59	1.52
1	A	127	ASP	CA-CB	5.20	1.61	1.53
1	A	966	ILE	C-N	5.20	1.39	1.33
2	B	231	ASN	CA-CB	5.20	1.61	1.53
1	A	1298	PRO	N-CA	-5.20	1.40	1.47
2	B	467	ILE	C-O	-5.20	1.18	1.24
1	V	246	ILE	C-O	-5.20	1.18	1.24
1	V	1124	GLY	C-N	5.20	1.40	1.33
1	W	500	GLN	CA-C	5.20	1.58	1.52
1	Z	27	LEU	CA-CB	-5.20	1.46	1.53
1	Z	239	VAL	N-CA	-5.20	1.40	1.46
1	A	938	LEU	CA-CB	5.20	1.62	1.53
2	B	151	TYR	C-N	5.20	1.41	1.33
1	W	80	TYR	CA-C	-5.20	1.46	1.53
2	X	434	GLN	CA-CB	5.20	1.61	1.53
1	A	49	VAL	CA-C	-5.20	1.46	1.52
1	A	623	ASN	CA-CB	5.20	1.61	1.53
1	A	1120	ASN	N-CA	-5.20	1.39	1.46
2	B	391	ASN	CA-CB	5.20	1.61	1.53
1	Z	945	GLN	CA-C	-5.20	1.46	1.52
1	A	169	GLN	C-N	5.19	1.41	1.33
1	W	35	ILE	CA-C	-5.19	1.46	1.52
1	W	470	ALA	N-CA	-5.19	1.39	1.46
1	A	985	LEU	C-N	5.19	1.40	1.33
2	B	471	TYR	N-CA	5.19	1.52	1.46
1	W	397	THR	N-CA	-5.19	1.39	1.46
1	Z	151	GLN	CA-C	-5.19	1.45	1.52
1	Z	72	THR	N-CA	-5.19	1.39	1.45
1	A	844	VAL	C-O	-5.19	1.19	1.24
2	C	265	VAL	C-N	5.19	1.41	1.33
1	V	90	VAL	CA-CB	-5.19	1.48	1.54
1	Z	500	GLN	CA-CB	5.19	1.62	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Z	524	VAL	C-N	5.19	1.40	1.33
1	Z	859	THR	CA-C	-5.19	1.46	1.52
2	B	294	ALA	CA-CB	5.18	1.61	1.53
2	B	27	THR	CA-CB	5.18	1.62	1.53
1	V	1302	GLN	CA-C	-5.18	1.46	1.52
2	X	314	GLN	CA-C	-5.18	1.46	1.52
2	C	396	LEU	C-N	5.18	1.40	1.33
1	V	1147	LEU	CA-CB	5.18	1.60	1.53
1	W	242	GLY	C-N	5.18	1.41	1.33
1	W	320	GLY	N-CA	-5.18	1.41	1.46
1	W	504	ASN	CA-C	-5.18	1.46	1.52
1	Z	1013	ASN	C-N	5.18	1.40	1.33
1	W	1085	TYR	N-CA	-5.18	1.39	1.46
1	Z	299	LYS	N-CA	-5.18	1.39	1.45
1	A	874	GLN	N-CA	-5.17	1.40	1.46
2	B	105	THR	N-CA	-5.17	1.40	1.46
1	V	1374	ALA	N-CA	-5.17	1.39	1.46
1	V	1333	ARG	CZ-NH1	5.17	1.40	1.32
1	W	96	SER	C-N	5.17	1.40	1.33
1	W	649	PRO	N-CD	-5.17	1.40	1.47
1	Z	522	ALA	CA-C	-5.17	1.46	1.52
1	A	1055	LEU	C-N	5.17	1.42	1.33
1	V	560	ALA	N-CA	-5.17	1.39	1.45
1	W	1052	VAL	N-CA	5.17	1.52	1.46
1	A	570	SER	CA-C	-5.17	1.46	1.52
1	A	852	SER	CA-C	-5.17	1.45	1.52
1	V	1385	GLN	N-CA	-5.17	1.39	1.45
2	X	261	ALA	C-N	5.17	1.40	1.33
2	X	450	TYR	C-N	5.17	1.40	1.33
2	B	382	LEU	C-N	5.17	1.40	1.33
1	V	249	THR	CA-C	-5.16	1.46	1.53
2	X	418	GLN	C-N	5.16	1.40	1.33
1	A	933	SER	N-CA	-5.16	1.38	1.46
1	Z	46	ILE	CA-CB	5.16	1.61	1.54
1	A	443	THR	C-O	-5.16	1.17	1.23
1	V	1101	LEU	CA-CB	5.16	1.63	1.53
1	Z	984	GLU	N-CA	-5.16	1.39	1.46
1	Z	1041	THR	N-CA	-5.16	1.39	1.46
1	A	571	VAL	CA-CB	5.16	1.57	1.53
1	A	911	PRO	C-N	5.16	1.41	1.33
1	W	472	GLY	CA-C	-5.16	1.44	1.51
1	A	667	TYR	C-N	5.15	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Z	543	GLN	CA-C	-5.15	1.46	1.52
1	W	614	ASP	N-CA	-5.15	1.39	1.46
1	V	645	ASN	CA-C	-5.15	1.43	1.52
1	W	994	PHE	CA-C	-5.15	1.46	1.52
1	A	350	THR	C-N	5.15	1.40	1.33
1	Z	1108	VAL	CA-C	-5.15	1.46	1.52
1	V	1204	PRO	N-CA	-5.15	1.40	1.47
2	X	125	VAL	CA-CB	-5.15	1.48	1.54
1	Z	935	ASN	C-N	5.15	1.40	1.33
1	V	264	GLN	C-O	-5.14	1.17	1.24
1	A	943	ALA	CA-C	-5.14	1.46	1.52
1	A	1173	GLN	N-CA	-5.14	1.39	1.45
1	V	853	ASN	CA-C	-5.14	1.46	1.52
1	Z	665	ASP	CA-C	-5.14	1.46	1.52
2	C	281	GLN	CA-CB	5.14	1.60	1.53
1	A	298	TYR	C-N	5.14	1.40	1.33
1	A	635	SER	CA-C	-5.14	1.46	1.52
1	V	188	LEU	CA-C	-5.14	1.46	1.52
1	V	449	SER	CA-CB	5.14	1.59	1.53
1	V	1008	ASN	CA-C	-5.14	1.46	1.53
2	X	401	SER	CA-C	5.14	1.59	1.52
1	V	1131	ILE	CB-CG1	5.13	1.63	1.53
1	W	634	PRO	C-N	5.13	1.39	1.33
1	W	501	TYR	C-N	5.13	1.39	1.33
1	Z	630	ILE	CA-CB	5.13	1.60	1.54
2	B	413	GLN	CA-C	-5.13	1.46	1.52
1	A	254	TYR	CZ-OH	5.13	1.48	1.38
1	V	1287	LEU	CB-CG	5.13	1.63	1.53
1	A	1279	VAL	C-N	5.12	1.40	1.33
2	C	91	THR	CA-C	-5.12	1.46	1.52
1	V	396	THR	C-N	5.12	1.40	1.33
1	V	1303	ILE	C-N	5.12	1.40	1.33
2	X	370	THR	CB-OG1	-5.12	1.35	1.43
1	A	498	LEU	CA-CB	5.12	1.62	1.53
1	A	1218	SER	CA-C	-5.12	1.46	1.52
2	X	124	TYR	C-N	5.12	1.37	1.32
1	Z	275	ILE	C-N	5.12	1.40	1.33
1	Z	1283	GLN	CA-CB	5.12	1.61	1.54
1	W	58	LYS	CA-C	-5.12	1.46	1.52
1	V	1022	HIS	CA-C	-5.12	1.46	1.52
1	A	1041	THR	C-N	5.12	1.37	1.33
2	B	389	LEU	C-O	-5.12	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Z	1209	LEU	CA-C	-5.12	1.46	1.52
1	A	1274	TYR	N-CA	-5.12	1.40	1.46
2	C	360	ASN	CA-C	5.12	1.59	1.52
1	V	554	THR	N-CA	-5.12	1.39	1.46
1	Z	910	GLU	N-CA	-5.12	1.39	1.46
1	A	48	THR	CA-C	5.11	1.59	1.52
2	C	431	LEU	CA-CB	5.11	1.61	1.53
1	W	372	GLN	C-O	5.11	1.29	1.23
1	Z	686	ILE	C-N	5.11	1.40	1.33
1	Z	966	ILE	C-N	5.11	1.39	1.33
1	V	169	GLN	C-N	5.11	1.41	1.34
1	Z	77	THR	N-CA	-5.11	1.39	1.46
2	X	257	GLN	CA-CB	5.11	1.61	1.53
1	Z	584	GLU	CA-C	-5.11	1.46	1.52
1	V	284	ALA	C-N	5.11	1.40	1.33
2	X	32	THR	C-N	5.11	1.40	1.33
1	A	122	THR	CA-CB	5.11	1.63	1.54
1	A	878	PHE	CB-CG	5.11	1.62	1.50
2	C	283	VAL	CA-C	-5.11	1.47	1.52
1	V	1117	VAL	CA-C	-5.11	1.46	1.52
1	W	911	PRO	CA-CB	-5.11	1.46	1.53
1	A	161	THR	CA-CB	5.11	1.61	1.53
1	A	286	ILE	C-N	5.11	1.40	1.33
2	B	205	THR	CA-C	-5.11	1.46	1.53
1	V	1233	GLY	C-N	5.11	1.40	1.34
1	W	215	ALA	CA-C	-5.11	1.46	1.52
1	Z	826	ASN	CA-C	-5.11	1.46	1.52
1	V	382	LYS	C-N	5.10	1.40	1.33
2	B	372	ILE	CA-CB	5.10	1.60	1.54
1	W	696	SER	C-N	5.10	1.40	1.33
1	A	618	ASN	CA-C	-5.10	1.46	1.52
2	B	203	SER	C-O	-5.10	1.18	1.24
1	V	620	LEU	CA-C	-5.10	1.46	1.52
1	V	1298	PRO	N-CA	-5.10	1.41	1.47
2	X	308	VAL	CA-CB	-5.10	1.47	1.54
1	V	699	ASN	N-CA	-5.10	1.39	1.46
2	C	93	GLY	CA-C	-5.10	1.45	1.52
2	X	36	PRO	C-N	5.09	1.39	1.33
1	V	538	SER	CA-C	-5.09	1.46	1.52
1	V	1056	LEU	C-N	5.09	1.40	1.33
1	V	1375	GLY	CA-C	-5.09	1.44	1.51
1	Z	315	THR	N-CA	-5.09	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	66	ALA	CA-CB	-5.09	1.46	1.53
1	V	284	ALA	CA-C	-5.08	1.46	1.52
1	W	1181	THR	N-CA	-5.08	1.40	1.46
1	A	873	GLY	N-CA	5.08	1.51	1.45
1	V	384	THR	CA-C	-5.08	1.46	1.52
2	X	155	SER	C-N	5.08	1.39	1.33
2	X	155	SER	N-CA	-5.08	1.39	1.45
1	Z	497	PRO	CA-C	5.08	1.58	1.52
1	Z	1315	VAL	CA-CB	-5.08	1.47	1.54
2	B	107	SER	CA-C	-5.08	1.46	1.52
1	V	410	THR	CA-CB	5.08	1.59	1.52
1	Z	89	LYS	C-N	5.08	1.40	1.33
1	A	913	TYR	N-CA	-5.08	1.40	1.46
1	Z	895	SER	C-O	-5.08	1.16	1.24
1	Z	886	VAL	N-CA	-5.08	1.40	1.46
1	A	103	THR	N-CA	-5.08	1.40	1.46
1	A	341	LEU	N-CA	-5.08	1.39	1.46
1	W	791	LEU	CA-CB	5.08	1.61	1.54
1	V	74	ARG	CZ-NH1	5.08	1.39	1.32
1	W	409	TYR	N-CA	-5.08	1.39	1.45
1	Z	316	GLN	CA-C	-5.08	1.46	1.52
1	A	42	VAL	N-CA	-5.07	1.40	1.46
1	A	411	VAL	CA-CB	5.07	1.61	1.54
1	W	963	THR	CA-CB	-5.07	1.45	1.52
1	Z	1368	LEU	CA-CB	5.07	1.60	1.53
1	A	1388	PHE	N-CA	-5.07	1.40	1.46
2	B	91	THR	C-N	5.07	1.40	1.33
1	V	614	ASP	CA-C	-5.07	1.46	1.52
1	Z	131	ALA	N-CA	-5.07	1.39	1.45
1	Z	1104	VAL	C-N	5.07	1.39	1.33
1	A	571	VAL	CA-C	-5.07	1.48	1.52
1	A	1322	ALA	C-N	5.07	1.40	1.33
1	V	1316	HIS	ND1-CE1	5.07	1.37	1.32
2	B	211	SER	CA-CB	5.06	1.60	1.53
1	A	983	GLN	CA-C	-5.06	1.46	1.53
1	V	650	ASN	CA-CB	5.06	1.62	1.53
1	W	927	GLY	CA-C	-5.06	1.44	1.51
1	Z	1367	VAL	CA-CB	-5.06	1.47	1.53
2	C	453	ILE	CA-CB	5.06	1.60	1.54
1	V	1104	VAL	N-CA	5.06	1.50	1.46
1	Z	1154	ASN	CA-CB	5.06	1.62	1.53
1	Z	1123	SER	CA-CB	5.06	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	V	756	THR	CA-C	-5.06	1.46	1.52
1	W	131	ALA	CA-CB	5.06	1.60	1.53
1	W	1031	THR	CA-C	-5.06	1.46	1.52
1	W	91	VAL	N-CA	-5.05	1.40	1.46
1	W	951	ILE	C-N	5.05	1.40	1.33
1	Z	436	GLU	C-N	5.05	1.39	1.33
2	C	202	VAL	C-N	5.05	1.40	1.33
1	V	488	ASN	CA-CB	5.05	1.62	1.53
1	V	1162	GLN	CA-C	-5.05	1.46	1.52
1	W	1227	ILE	N-CA	5.05	1.51	1.46
1	V	164	ASN	CG-ND2	5.05	1.43	1.33
1	V	878	PHE	C-N	5.05	1.39	1.33
1	W	261	PHE	C-N	5.05	1.41	1.33
2	C	421	ILE	C-N	5.05	1.40	1.33
1	V	307	PHE	N-CA	5.05	1.52	1.46
1	Z	40	SER	C-O	5.05	1.30	1.24
1	Z	110	LEU	N-CA	5.05	1.53	1.46
1	Z	694	GLY	N-CA	-5.05	1.39	1.45
2	B	197	ALA	CA-C	-5.04	1.46	1.52
1	A	63	GLN	C-O	-5.04	1.17	1.24
2	C	454	ILE	CA-CB	-5.04	1.48	1.54
2	C	457	ILE	C-N	5.04	1.40	1.33
1	V	276	ASN	N-CA	-5.04	1.40	1.45
2	X	49	VAL	CA-C	5.04	1.58	1.52
1	Z	491	LEU	C-N	5.04	1.40	1.33
2	C	422	SER	C-O	5.04	1.30	1.24
1	W	281	ALA	CA-C	-5.04	1.46	1.52
1	Z	11	GLN	C-N	5.04	1.40	1.33
1	Z	1105	ASN	C-N	5.04	1.39	1.33
1	V	1164	THR	CA-C	-5.04	1.46	1.53
1	A	1282	PRO	CA-CB	-5.04	1.46	1.53
1	V	1215	TYR	C-N	5.04	1.40	1.33
2	X	199	THR	C-N	-5.04	1.27	1.33
1	Z	104	THR	C-N	5.04	1.40	1.33
2	C	87	ALA	N-CA	-5.04	1.39	1.45
1	V	1377	PRO	CA-C	-5.04	1.46	1.52
1	Z	939	PHE	CA-C	-5.04	1.47	1.53
1	V	409	TYR	CA-C	-5.03	1.46	1.52
1	V	1057	THR	CA-C	-5.03	1.46	1.52
1	W	413	ILE	CA-C	-5.03	1.46	1.52
1	W	1027	GLY	C-N	5.03	1.40	1.33
1	V	997	SER	N-CA	-5.03	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	774	VAL	C-N	5.03	1.40	1.33
2	B	435	LEU	N-CA	-5.03	1.40	1.46
1	A	1124	GLY	C-N	5.03	1.39	1.33
2	C	396	LEU	C-O	-5.02	1.18	1.24
1	Z	757	VAL	CA-CB	-5.02	1.47	1.54
1	A	735	ASN	CA-C	-5.02	1.46	1.52
1	A	977	PHE	C-N	5.02	1.38	1.33
2	B	282	THR	C-N	5.02	1.40	1.33
2	B	289	THR	C-N	5.02	1.40	1.33
1	V	992	PHE	CA-CB	5.02	1.59	1.52
1	V	880	THR	N-CA	-5.02	1.39	1.46
1	A	336	LYS	CA-C	-5.02	1.46	1.52
1	A	1103	THR	C-N	5.02	1.40	1.34
2	C	193	GLN	N-CA	-5.02	1.40	1.46
2	C	398	SER	N-CA	5.02	1.52	1.46
1	V	654	THR	N-CA	-5.02	1.40	1.46
1	Z	214	GLN	CA-CB	5.02	1.59	1.52
1	Z	732	LEU	N-CA	-5.02	1.39	1.46
1	V	1276	GLY	C-N	5.02	1.40	1.33
1	W	314	SER	CA-C	-5.02	1.46	1.52
2	X	183	THR	CA-C	5.02	1.59	1.52
1	A	453	LEU	C-N	5.01	1.40	1.33
1	A	516	ASN	CA-CB	5.01	1.60	1.53
1	A	1224	ALA	C-N	5.01	1.39	1.33
1	Z	655	VAL	CA-C	-5.01	1.46	1.52
1	Z	776	ALA	CA-C	-5.01	1.46	1.52
1	W	1183	PHE	CA-C	-5.01	1.46	1.52
1	A	1333	ARG	NE-CZ	5.01	1.38	1.33
2	B	27	THR	C-O	-5.01	1.18	1.23
1	V	773	PRO	C-N	5.01	1.39	1.33
1	W	170	ALA	N-CA	-5.01	1.39	1.46
1	Z	324	ILE	C-N	5.01	1.40	1.33
1	V	71	VAL	CA-CB	-5.01	1.48	1.54
1	V	601	LEU	N-CA	-5.01	1.39	1.46
1	V	777	SER	CA-C	-5.01	1.46	1.52
1	A	1011	GLN	N-CA	-5.01	1.40	1.46
1	A	1238	THR	N-CA	-5.01	1.40	1.46
2	B	453	ILE	C-N	5.01	1.40	1.33
1	W	92	PHE	CA-CB	5.01	1.65	1.53
1	Z	452	ILE	C-O	-5.01	1.18	1.24
1	V	690	VAL	CA-CB	5.01	1.59	1.53
1	V	387	VAL	CA-C	-5.00	1.48	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	X	85	LEU	CA-C	-5.00	1.46	1.52
1	A	596	LEU	N-CA	5.00	1.52	1.46
1	V	1287	LEU	N-CA	5.00	1.53	1.46
1	W	1031	THR	C-N	5.00	1.40	1.33
2	X	403	LEU	CB-CG	5.00	1.63	1.53
1	Z	306	SER	C-O	5.00	1.30	1.23
1	Z	608	VAL	N-CA	-5.00	1.40	1.46
2	B	136	VAL	N-CA	-5.00	1.41	1.46
2	B	373	SER	C-O	5.00	1.29	1.24
2	B	430	ASN	CA-CB	5.00	1.61	1.53
1	W	895	SER	CA-CB	5.00	1.61	1.53
1	W	1284	GLN	CA-CB	5.00	1.62	1.53
1	Z	732	LEU	C-N	5.00	1.37	1.33

All (3151) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	1258	VAL	CA-C-O	-13.23	111.34	119.15
2	X	55	GLN	CA-C-N	13.18	133.34	119.90
2	X	55	GLN	C-N-CA	13.18	133.34	119.90
1	V	92	PHE	CA-CB-CG	13.01	126.81	113.80
1	W	861	THR	N-CA-C	-12.74	96.40	114.12
1	A	386	PRO	N-CA-CB	-11.97	96.22	102.92
1	Z	1256	PHE	CA-C-N	11.80	136.10	120.28
1	Z	1256	PHE	C-N-CA	11.80	136.10	120.28
1	A	544	GLU	O-C-N	-11.63	110.74	121.32
1	W	1284	GLN	N-CA-C	-11.34	91.18	108.99
1	Z	1154	ASN	CA-C-N	11.18	130.96	120.34
1	Z	1154	ASN	C-N-CA	11.18	130.96	120.34
1	W	997	SER	CA-C-N	11.15	135.73	120.46
1	W	997	SER	C-N-CA	11.15	135.73	120.46
1	V	746	ASN	CA-CB-CG	11.10	123.69	112.60
1	Z	799	SER	O-C-N	-11.03	111.94	121.31
1	Z	1098	ILE	N-CA-C	-11.01	91.68	107.75
1	W	1072	PHE	CA-CB-CG	-10.84	102.96	113.80
1	Z	1078	VAL	N-CA-C	-10.71	101.75	113.43
1	V	436	GLU	CA-C-N	10.70	129.56	122.18
1	V	436	GLU	C-N-CA	10.70	129.56	122.18
1	A	525	ILE	CA-C-N	10.67	128.90	121.65
1	A	525	ILE	C-N-CA	10.67	128.90	121.65
1	V	1232	ASP	CA-CB-CG	10.67	123.27	112.60
1	A	1241	VAL	CA-C-O	-10.59	114.43	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	897	THR	CA-C-O	-10.55	110.28	120.94
1	V	1341	GLY	N-CA-C	-10.55	101.93	114.48
2	X	66	ASP	CA-CB-CG	10.23	122.83	112.60
2	B	342	ASN	CA-C-N	10.19	135.26	120.38
2	B	342	ASN	C-N-CA	10.19	135.26	120.38
1	V	1278	ILE	CA-C-N	10.18	135.71	121.66
1	V	1278	ILE	C-N-CA	10.18	135.71	121.66
1	A	1123	SER	N-CA-C	-10.16	101.39	113.88
1	W	1065	ILE	O-C-N	-10.15	112.95	121.98
1	V	1023	ASP	CA-CB-CG	10.13	122.73	112.60
1	Z	34	ASN	N-CA-C	-10.02	99.87	113.30
1	W	1252	ARG	NE-CZ-NH2	-10.01	110.19	119.20
1	V	798	PRO	N-CA-C	-9.97	103.05	114.92
1	A	1258	VAL	CA-C-N	9.95	132.27	119.84
1	A	1258	VAL	C-N-CA	9.95	132.27	119.84
2	C	55	GLN	CA-C-N	9.80	129.89	119.89
2	C	55	GLN	C-N-CA	9.80	129.89	119.89
1	Z	718	PHE	CA-CB-CG	-9.78	104.02	113.80
1	V	817	TYR	CA-C-N	9.76	134.15	120.29
1	V	817	TYR	C-N-CA	9.76	134.15	120.29
1	Z	241	TRP	CA-C-N	9.72	135.72	120.07
1	Z	241	TRP	C-N-CA	9.72	135.72	120.07
1	A	869	PHE	CA-CB-CG	-9.67	104.13	113.80
1	W	140	PRO	CA-C-O	-9.62	110.06	121.03
1	Z	820	ASP	CA-CB-CG	9.60	122.20	112.60
2	X	451	GLY	CA-C-N	9.60	130.56	120.00
2	X	451	GLY	C-N-CA	9.60	130.56	120.00
1	Z	1231	SER	CA-C-O	9.52	130.64	120.46
1	W	173	ASN	CA-C-N	9.50	135.66	122.07
1	W	173	ASN	C-N-CA	9.50	135.66	122.07
1	A	1024	TYR	N-CA-C	-9.48	101.22	113.17
1	W	348	ASN	OD1-CG-ND2	9.48	132.08	122.60
1	Z	1006	ASN	CA-CB-CG	-9.47	103.13	112.60
1	Z	1291	VAL	N-CA-C	-9.46	94.92	108.17
1	V	1105	ASN	OD1-CG-ND2	9.45	132.05	122.60
1	W	376	VAL	N-CA-CB	9.45	121.31	110.82
1	Z	784	SER	CA-C-N	9.43	131.63	119.84
1	Z	784	SER	C-N-CA	9.43	131.63	119.84
1	A	1261	GLN	N-CA-C	-9.42	101.55	113.23
1	A	442	THR	N-CA-C	-9.40	94.46	109.59
1	W	1339	GLY	N-CA-C	-9.39	97.80	110.20
1	W	383	TYR	N-CA-C	-9.39	100.77	112.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	778	LEU	O-C-N	-9.37	110.55	121.32
1	W	1208	PHE	CA-CB-CG	-9.36	104.44	113.80
1	V	869	PHE	CA-CB-CG	-9.35	104.45	113.80
2	C	340	ASN	CA-CB-CG	9.31	121.91	112.60
1	W	646	PHE	CA-CB-CG	-9.27	104.53	113.80
1	W	289	LEU	CA-C-O	-9.26	112.47	119.32
1	Z	1316	HIS	CA-CB-CG	-9.25	104.55	113.80
1	W	122	THR	N-CA-C	-9.21	99.34	113.89
2	X	435	LEU	CA-C-N	9.17	132.56	120.28
2	X	435	LEU	C-N-CA	9.17	132.56	120.28
2	X	182	VAL	N-CA-C	-9.11	94.21	107.78
1	W	146	ASP	CA-CB-CG	9.11	121.71	112.60
1	V	1009	VAL	N-CA-C	9.07	119.13	110.42
2	C	264	ARG	CA-C-N	9.04	132.23	122.11
2	C	264	ARG	C-N-CA	9.04	132.23	122.11
1	Z	85	ASP	CA-CB-CG	9.03	121.63	112.60
1	Z	283	ILE	N-CA-C	-9.03	95.09	108.45
1	W	1344	VAL	CB-CA-C	-9.02	101.05	110.16
1	Z	1087	ASP	N-CA-C	-8.97	99.68	110.44
1	V	1295	LEU	O-C-N	-8.96	114.56	121.55
1	W	1111	LEU	CA-C-O	-8.93	111.20	120.84
1	W	892	PHE	O-C-N	8.91	128.09	121.85
2	B	224	ALA	CA-C-O	-8.90	111.32	119.86
1	W	1373	PHE	CA-CB-CG	8.90	122.70	113.80
1	W	1260	ALA	N-CA-C	-8.89	102.43	113.28
1	Z	1205	ALA	CA-C-N	8.88	129.84	119.98
1	Z	1205	ALA	C-N-CA	8.88	129.84	119.98
2	X	29	ASN	CA-CB-CG	8.86	121.46	112.60
1	A	1313	PHE	CA-CB-CG	-8.85	104.95	113.80
1	V	1076	ASN	N-CA-C	-8.84	95.63	109.07
1	A	702	GLY	CA-C-N	8.78	133.35	122.37
1	A	702	GLY	C-N-CA	8.78	133.35	122.37
1	Z	1196	ASN	OD1-CG-ND2	8.78	131.38	122.60
1	Z	54	GLN	N-CA-C	-8.77	95.93	109.52
1	Z	632	ILE	CA-C-O	-8.77	111.42	121.59
1	A	962	THR	N-CA-C	-8.73	95.80	109.07
1	A	139	THR	CA-C-N	8.72	129.25	119.92
1	A	139	THR	C-N-CA	8.72	129.25	119.92
1	V	897	THR	CA-C-N	8.71	129.24	119.92
1	V	897	THR	C-N-CA	8.71	129.24	119.92
1	Z	61	ASN	CA-CB-CG	8.71	121.31	112.60
1	A	363	TYR	CA-C-N	8.69	128.75	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	363	TYR	C-N-CA	8.69	128.75	119.89
2	X	89	ILE	N-CA-C	-8.66	102.86	110.74
1	Z	1080	GLN	CA-C-N	8.65	128.73	119.90
1	Z	1080	GLN	C-N-CA	8.65	128.73	119.90
1	W	746	ASN	CA-CB-CG	8.64	121.24	112.60
2	C	93	GLY	CA-C-O	8.63	127.07	119.56
2	C	161	VAL	CA-C-O	-8.63	111.31	118.90
1	Z	88	ASP	CA-CB-CG	8.61	121.21	112.60
1	W	1234	VAL	N-CA-C	-8.61	104.51	112.43
1	Z	913	TYR	CA-C-N	8.61	128.28	120.10
1	Z	913	TYR	C-N-CA	8.61	128.28	120.10
1	Z	1367	VAL	N-CA-CB	8.61	122.75	111.90
1	A	650	ASN	CA-CB-CG	8.61	121.21	112.60
1	Z	211	SER	O-C-N	-8.60	114.41	121.80
1	A	950	PHE	CA-CB-CG	8.59	122.39	113.80
1	A	884	PRO	CA-C-N	8.59	133.44	120.82
1	A	884	PRO	C-N-CA	8.59	133.44	120.82
1	W	1224	ALA	CA-C-O	-8.56	112.32	121.14
1	A	571	VAL	CB-CA-C	-8.56	105.28	114.35
1	Z	632	ILE	O-C-N	8.55	127.08	121.69
1	A	466	SER	N-CA-C	-8.54	96.96	108.24
1	W	1371	VAL	CA-C-N	8.53	129.66	120.11
1	W	1371	VAL	C-N-CA	8.53	129.66	120.11
1	W	1122	THR	N-CA-C	-8.52	99.44	113.50
1	W	1306	PHE	CA-CB-CG	8.52	122.32	113.80
2	B	66	ASP	CA-CB-CG	8.51	121.11	112.60
1	A	1357	SER	N-CA-C	-8.50	101.91	113.30
1	A	371	PRO	CA-C-O	-8.50	112.06	121.32
1	V	41	ASN	CA-CB-CG	8.47	121.07	112.60
1	A	1251	ILE	O-C-N	-8.45	113.95	122.99
1	V	593	TYR	N-CA-C	-8.43	102.59	113.12
1	A	754	ILE	N-CA-CB	8.42	119.91	111.57
1	Z	198	VAL	CA-C-N	8.42	130.37	119.84
1	Z	198	VAL	C-N-CA	8.42	130.37	119.84
2	C	312	VAL	CB-CA-C	8.41	120.32	111.23
1	Z	1210	LEU	N-CA-C	-8.40	94.78	109.48
1	W	392	GLY	CA-C-N	8.40	129.51	120.11
1	W	392	GLY	C-N-CA	8.40	129.51	120.11
1	W	568	ALA	CA-C-O	-8.40	112.08	119.72
1	A	633	PRO	CA-C-N	8.39	128.45	119.89
1	A	633	PRO	C-N-CA	8.39	128.45	119.89
1	W	872	THR	N-CA-C	-8.39	101.91	112.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	1003	LYS	N-CA-C	-8.39	100.42	111.24
1	A	1340	ILE	N-CA-CB	8.37	120.18	112.06
1	W	1106	ILE	N-CA-C	-8.37	97.30	108.35
1	V	556	VAL	N-CA-C	-8.36	104.62	111.81
1	Z	926	ASN	N-CA-C	-8.36	101.54	112.41
1	V	921	ILE	N-CA-C	-8.35	96.02	108.46
1	W	228	GLY	CA-C-N	8.34	131.45	120.28
1	W	228	GLY	C-N-CA	8.34	131.45	120.28
1	A	313	ASN	N-CA-CB	-8.30	97.61	110.06
1	W	1184	ALA	N-CA-CB	8.29	123.93	110.42
1	A	163	TYR	CA-C-N	8.27	131.71	120.38
1	A	163	TYR	C-N-CA	8.27	131.71	120.38
2	B	169	GLN	N-CA-C	-8.27	103.33	113.50
1	V	41	ASN	CA-C-N	8.26	130.97	120.56
1	V	41	ASN	C-N-CA	8.26	130.97	120.56
1	Z	728	SER	CA-C-N	8.23	128.26	119.78
1	Z	728	SER	C-N-CA	8.23	128.26	119.78
1	Z	483	VAL	N-CA-C	-8.21	97.52	108.35
2	B	416	ALA	CA-C-N	8.21	131.28	120.28
2	B	416	ALA	C-N-CA	8.21	131.28	120.28
1	A	687	THR	CA-C-O	8.20	130.21	121.19
1	V	959	SER	N-CA-C	-8.19	100.33	110.65
1	A	3	PRO	CA-C-N	8.19	128.26	119.90
1	A	3	PRO	C-N-CA	8.19	128.26	119.90
1	V	764	MET	N-CA-C	-8.19	93.49	107.99
1	V	878	PHE	CA-CB-CG	-8.19	105.61	113.80
1	V	516	ASN	CA-CB-CG	8.18	120.78	112.60
1	V	734	GLY	N-CA-C	-8.18	102.37	112.68
1	Z	762	VAL	N-CA-C	-8.18	105.27	111.90
1	A	924	GLY	CA-C-N	8.18	131.24	120.28
1	A	924	GLY	C-N-CA	8.18	131.24	120.28
1	W	667	TYR	CA-C-N	8.18	128.19	119.76
1	W	667	TYR	C-N-CA	8.18	128.19	119.76
1	V	1314	ASN	CA-CB-CG	8.17	120.77	112.60
1	A	1258	VAL	N-CA-C	-8.16	98.43	107.73
1	Z	42	VAL	CA-C-N	8.15	131.41	120.65
1	Z	42	VAL	C-N-CA	8.15	131.41	120.65
1	A	1268	PRO	CA-C-O	-8.14	111.92	121.86
1	V	49	VAL	CA-C-O	-8.14	112.54	121.17
1	W	667	TYR	N-CA-C	-8.14	96.94	109.64
1	W	1126	THR	N-CA-C	-8.13	96.65	109.50
1	A	223	VAL	N-CA-C	-8.13	104.57	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	98	LEU	CA-C-N	8.13	131.69	120.39
1	W	98	LEU	C-N-CA	8.13	131.69	120.39
2	X	53	GLN	OE1-CD-NE2	8.13	130.73	122.60
1	Z	262	THR	N-CA-C	-8.12	97.38	109.81
1	W	632	ILE	CA-C-O	-8.11	114.48	119.51
1	A	753	PHE	CA-C-N	-8.10	115.03	122.97
1	A	753	PHE	C-N-CA	-8.10	115.03	122.97
1	Z	271	GLY	CA-C-N	8.09	128.14	119.89
1	Z	271	GLY	C-N-CA	8.09	128.14	119.89
1	A	510	PRO	CA-C-O	-8.09	112.12	121.34
2	B	114	THR	N-CA-C	-8.09	95.08	108.34
1	A	1142	ASN	CA-CB-CG	8.07	120.67	112.60
1	W	639	ALA	CA-C-N	8.06	128.12	119.90
1	W	639	ALA	C-N-CA	8.06	128.12	119.90
1	Z	1132	TYR	N-CA-C	-8.04	104.35	114.56
1	Z	604	ASN	N-CA-C	-8.04	103.56	112.72
1	A	1381	GLU	N-CA-C	-8.03	103.04	112.92
2	X	459	GLY	CA-C-N	8.03	130.88	120.44
2	X	459	GLY	C-N-CA	8.03	130.88	120.44
1	W	915	SER	N-CA-C	-8.03	97.75	108.11
1	A	966	ILE	CA-C-O	8.02	124.11	119.94
1	A	671	SER	N-CA-C	-8.02	96.09	108.76
1	W	34	ASN	CA-C-N	7.99	134.34	122.75
1	W	34	ASN	C-N-CA	7.99	134.34	122.75
1	V	1342	THR	N-CA-C	-7.99	103.55	113.38
1	V	1317	THR	N-CA-C	-7.99	103.75	113.97
2	B	37	VAL	CA-C-N	7.98	128.04	119.90
2	B	37	VAL	C-N-CA	7.98	128.04	119.90
1	W	1184	ALA	CA-C-O	-7.97	111.83	120.36
2	B	142	PRO	N-CA-CB	7.96	109.67	103.30
2	C	165	THR	CA-CB-OG1	7.95	121.53	109.60
1	W	1056	LEU	N-CA-C	-7.95	97.24	109.24
1	A	1325	VAL	N-CA-C	-7.94	104.77	113.43
2	B	98	PHE	CA-CB-CG	-7.94	105.86	113.80
2	X	345	ALA	CA-C-N	7.93	130.75	120.44
2	X	345	ALA	C-N-CA	7.93	130.75	120.44
2	X	340	ASN	CA-CB-CG	-7.93	104.67	112.60
1	A	495	ASN	CA-CB-CG	7.92	120.52	112.60
1	Z	313	ASN	CA-C-N	7.92	131.96	120.71
1	Z	313	ASN	C-N-CA	7.92	131.96	120.71
2	B	55	GLN	CA-C-N	7.92	129.74	119.84
2	B	55	GLN	C-N-CA	7.92	129.74	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	164	ASN	OD1-CG-ND2	7.91	130.51	122.60
1	A	300	PHE	CA-CB-CG	-7.91	105.89	113.80
1	Z	103	THR	N-CA-C	-7.89	103.67	113.38
1	Z	989	ASN	N-CA-CB	7.89	123.82	110.49
2	C	383	SER	CA-C-O	-7.87	112.21	120.55
1	Z	1159	GLY	CA-C-N	7.87	132.63	120.75
1	Z	1159	GLY	C-N-CA	7.87	132.63	120.75
1	V	1138	THR	N-CA-C	-7.87	95.20	108.26
1	V	151	GLN	OE1-CD-NE2	7.86	130.46	122.60
1	A	203	TYR	N-CA-CB	7.86	123.78	110.49
1	A	504	ASN	CA-C-N	7.84	128.91	121.46
1	A	504	ASN	C-N-CA	7.84	128.91	121.46
1	V	926	ASN	CA-C-O	7.84	127.66	119.51
2	X	248	GLN	N-CA-C	7.84	120.43	110.24
2	B	258	VAL	N-CA-C	-7.84	97.14	108.11
1	W	405	TYR	N-CA-CB	7.83	123.73	110.49
1	Z	293	PHE	CA-CB-CG	7.83	121.63	113.80
1	V	369	PHE	CA-CB-CG	-7.82	105.98	113.80
1	Z	610	VAL	CA-C-O	-7.82	111.52	120.67
2	X	39	ASN	CA-CB-CG	-7.81	104.79	112.60
1	A	415	VAL	CA-C-N	7.81	127.76	120.34
1	A	415	VAL	C-N-CA	7.81	127.76	120.34
1	A	754	ILE	CB-CA-C	-7.80	105.08	111.71
1	Z	655	VAL	N-CA-C	-7.79	97.27	108.42
1	Z	1373	PHE	CA-C-N	7.79	133.22	122.07
1	Z	1373	PHE	C-N-CA	7.79	133.22	122.07
1	V	141	PHE	N-CA-C	-7.79	101.41	113.02
2	X	184	GLN	CA-C-O	7.78	128.57	120.40
1	A	52	ASN	CA-CB-CG	-7.78	104.82	112.60
1	W	633	PRO	CA-C-O	-7.78	109.28	120.56
1	Z	856	LEU	N-CA-C	-7.77	96.23	108.90
1	A	418	THR	CA-C-N	7.76	127.82	119.90
1	A	418	THR	C-N-CA	7.76	127.82	119.90
1	V	507	ILE	N-CA-C	-7.76	97.31	108.17
1	Z	560	ALA	N-CA-C	7.76	119.11	109.57
2	C	448	LEU	CA-C-N	7.75	130.32	120.56
2	C	448	LEU	C-N-CA	7.75	130.32	120.56
1	V	108	ILE	CA-C-N	7.75	129.53	119.84
1	V	108	ILE	C-N-CA	7.75	129.53	119.84
1	W	17	GLY	CA-C-N	7.75	131.74	120.82
1	W	17	GLY	C-N-CA	7.75	131.74	120.82
2	C	313	PHE	CA-CB-CG	7.74	121.54	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	428	ILE	N-CA-C	7.72	118.50	110.62
1	V	407	THR	O-C-N	-7.72	112.51	121.23
1	A	965	VAL	CA-C-N	7.72	129.56	122.85
1	A	965	VAL	C-N-CA	7.72	129.56	122.85
1	W	972	ASN	O-C-N	-7.72	113.32	122.27
1	Z	1283	GLN	CA-C-N	7.72	133.65	123.00
1	Z	1283	GLN	C-N-CA	7.72	133.65	123.00
1	Z	1299	GLN	CA-C-N	7.71	131.82	120.87
1	Z	1299	GLN	C-N-CA	7.71	131.82	120.87
1	A	193	PHE	CA-CB-CG	-7.71	106.09	113.80
1	V	677	LEU	CA-C-N	7.71	127.47	119.76
1	V	677	LEU	C-N-CA	7.71	127.47	119.76
1	W	820	ASP	N-CA-C	-7.70	97.13	109.76
1	V	1130	ASN	CA-CB-CG	7.70	120.30	112.60
1	W	38	SER	O-C-N	7.68	129.76	121.85
1	Z	1254	ALA	O-C-N	-7.68	115.19	121.80
1	V	1190	SER	CA-C-N	7.68	132.11	120.82
1	V	1190	SER	C-N-CA	7.68	132.11	120.82
1	A	841	ILE	N-CA-C	-7.68	98.22	108.35
1	A	1359	LEU	CA-C-O	-7.68	113.05	120.19
1	W	807	PRO	CA-C-N	7.67	131.69	120.95
1	W	807	PRO	C-N-CA	7.67	131.69	120.95
1	W	331	THR	CA-C-N	7.67	133.69	123.11
1	W	331	THR	C-N-CA	7.67	133.69	123.11
1	V	738	TYR	N-CA-C	-7.67	102.13	112.94
2	X	174	PHE	CA-CB-CG	-7.66	106.14	113.80
1	Z	560	ALA	CA-C-N	7.66	128.87	119.98
1	Z	560	ALA	C-N-CA	7.66	128.87	119.98
1	A	737	ASN	CA-CB-CG	7.66	120.26	112.60
2	X	176	VAL	CA-C-N	7.65	131.74	120.87
2	X	176	VAL	C-N-CA	7.65	131.74	120.87
1	Z	1202	LEU	CA-C-O	7.65	127.67	119.34
1	W	440	VAL	N-CA-CB	7.64	119.05	110.72
2	C	151	TYR	CA-C-O	-7.63	112.12	120.36
1	A	867	HIS	CE1-NE2-CD2	-7.63	101.37	109.00
2	C	402	SER	CA-C-N	7.63	130.51	120.28
2	C	402	SER	C-N-CA	7.63	130.51	120.28
1	V	97	PHE	CA-C-N	7.63	131.54	120.71
1	V	97	PHE	C-N-CA	7.63	131.54	120.71
1	V	702	GLY	CA-C-N	7.63	133.59	123.06
1	V	702	GLY	C-N-CA	7.63	133.59	123.06
1	V	1200	TYR	N-CA-CB	7.62	122.43	110.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	1338	LEU	N-CA-C	-7.62	102.50	112.41
1	A	210	ASN	CA-CB-CG	7.61	120.21	112.60
1	A	645	ASN	N-CA-C	-7.61	103.06	112.88
1	V	29	VAL	N-CA-C	-7.61	97.12	108.46
1	A	935	ASN	CA-CB-CG	-7.60	105.00	112.60
1	A	1106	ILE	CA-C-O	7.60	127.77	120.25
1	A	709	PHE	CA-CB-CG	7.59	121.39	113.80
1	A	960	ASN	CA-CB-CG	7.59	120.19	112.60
2	C	311	TYR	O-C-N	7.59	132.72	123.16
1	Z	826	ASN	CA-CB-CG	-7.58	105.02	112.60
1	A	628	TYR	CA-C-N	7.58	129.40	122.20
1	A	628	TYR	C-N-CA	7.58	129.40	122.20
1	A	588	VAL	CA-C-O	-7.58	109.79	119.95
2	C	68	LYS	N-CA-C	-7.57	102.00	112.30
1	W	883	VAL	O-C-N	-7.57	116.17	121.55
1	A	76	PRO	N-CA-CB	7.57	109.93	103.35
1	V	659	ASP	CA-CB-CG	-7.57	105.03	112.60
1	Z	287	ASN	N-CA-CB	7.57	120.98	110.01
1	Z	423	ASN	OD1-CG-ND2	7.57	130.17	122.60
1	W	344	VAL	N-CA-CB	7.56	120.07	110.99
2	X	212	VAL	N-CA-C	-7.56	97.23	108.12
1	V	846	ASN	N-CA-CB	7.56	121.23	110.12
1	W	171	ASN	N-CA-C	7.56	120.99	111.24
1	Z	1193	ILE	N-CA-CB	7.56	119.18	110.49
1	Z	420	THR	N-CA-C	-7.55	102.59	112.41
1	W	735	ASN	CA-C-N	7.55	131.79	120.31
1	W	735	ASN	C-N-CA	7.55	131.79	120.31
1	Z	431	LYS	N-CA-C	-7.55	97.84	109.24
2	B	103	THR	CA-C-N	7.54	133.91	121.39
2	B	103	THR	C-N-CA	7.54	133.91	121.39
1	A	223	VAL	O-C-N	-7.54	115.27	121.98
2	C	203	SER	CA-C-N	-7.54	112.64	122.37
2	C	203	SER	C-N-CA	-7.54	112.64	122.37
1	Z	1308	TYR	CA-C-N	7.54	134.69	120.97
1	Z	1308	TYR	C-N-CA	7.54	134.69	120.97
1	A	1021	TYR	CA-C-O	-7.53	112.84	121.58
1	A	683	ASN	N-CA-C	-7.53	104.14	112.72
1	V	639	ALA	N-CA-C	-7.53	99.91	110.29
1	W	989	ASN	CA-CB-CG	-7.53	105.08	112.60
1	Z	1332	VAL	CA-C-N	7.52	134.36	122.17
1	Z	1332	VAL	C-N-CA	7.52	134.36	122.17
1	Z	854	ILE	N-CA-CB	7.52	121.34	111.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1188	ASN	CA-CB-CG	7.52	120.12	112.60
1	A	1336	PRO	N-CA-CB	7.52	111.27	103.38
1	V	1139	LEU	CA-C-N	7.51	131.54	120.87
1	V	1139	LEU	C-N-CA	7.51	131.54	120.87
1	A	108	ILE	CA-C-O	-7.50	109.90	119.95
1	Z	507	ILE	N-CA-C	-7.50	97.68	108.48
2	C	292	LYS	N-CA-C	-7.50	103.70	114.12
1	Z	25	LEU	N-CA-C	-7.49	98.40	110.32
1	W	970	THR	N-CA-C	7.49	119.45	111.28
1	W	1188	ASN	N-CA-C	7.49	121.82	112.24
2	B	217	VAL	CA-C-N	7.48	129.19	119.84
2	B	217	VAL	C-N-CA	7.48	129.19	119.84
1	A	736	THR	N-CA-C	7.47	121.50	112.38
2	B	349	LYS	N-CA-CB	7.47	121.22	110.16
1	W	475	THR	N-CA-C	-7.47	98.75	109.29
1	W	972	ASN	CA-C-O	7.47	127.12	118.90
1	V	830	ASN	N-CA-C	-7.46	94.91	110.80
1	A	1346	ASN	CA-CB-CG	-7.46	105.14	112.60
1	V	1309	GLU	N-CA-C	-7.46	98.30	109.86
1	V	754	ILE	N-CA-CB	7.45	123.52	111.23
2	X	231	ASN	CA-CB-CG	7.45	120.05	112.60
1	Z	892	PHE	CA-C-N	7.45	128.72	120.45
1	Z	892	PHE	C-N-CA	7.45	128.72	120.45
1	Z	1283	GLN	N-CA-C	-7.45	103.77	114.12
1	A	1330	SER	N-CA-CB	7.45	123.01	110.87
1	A	1232	ASP	CA-CB-CG	7.44	120.04	112.60
1	V	1004	LEU	CA-C-O	-7.44	112.58	120.55
2	B	268	ALA	CA-C-O	-7.44	112.63	119.62
1	A	869	PHE	N-CA-C	-7.44	94.96	110.80
1	A	258	SER	O-C-N	-7.43	114.34	123.04
1	V	643	TYR	CA-C-N	7.43	130.57	120.54
1	V	643	TYR	C-N-CA	7.43	130.57	120.54
1	V	25	LEU	N-CA-C	-7.43	98.46	109.15
1	A	390	ILE	N-CA-C	-7.42	98.42	108.96
1	W	1242	PRO	N-CA-CB	7.41	111.03	103.25
1	W	513	ALA	CA-C-N	7.41	135.70	121.54
1	W	513	ALA	C-N-CA	7.41	135.70	121.54
2	X	379	LEU	O-C-N	-7.41	114.27	122.12
1	A	1152	ALA	N-CA-CB	7.41	122.59	110.37
1	V	1335	TYR	CA-C-O	-7.41	113.49	119.71
1	A	1367	VAL	N-CA-CB	7.40	119.87	111.21
1	Z	624	LEU	N-CA-C	-7.40	97.16	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	875	TYR	N-CA-C	-7.40	104.28	113.38
1	W	1344	VAL	CA-C-O	-7.39	116.09	119.94
1	A	333	ASN	CA-CB-CG	7.39	119.99	112.60
1	A	369	PHE	CA-CB-CG	-7.39	106.41	113.80
1	A	1080	GLN	O-C-N	-7.39	112.82	121.32
1	Z	383	TYR	N-CA-C	-7.38	104.27	113.28
1	Z	241	TRP	N-CA-CB	7.38	123.21	110.81
1	V	224	ASN	CA-CB-CG	7.38	119.98	112.60
1	Z	750	ASN	CA-CB-CG	-7.38	105.22	112.60
1	Z	1100	SER	CA-C-N	7.38	133.34	120.87
1	Z	1100	SER	C-N-CA	7.38	133.34	120.87
1	A	1348	LEU	N-CA-C	-7.38	97.37	109.40
1	V	197	THR	CA-CB-OG1	7.37	120.66	109.60
1	W	263	PHE	CA-CB-CG	-7.36	106.44	113.80
1	A	1012	LEU	CA-C-O	7.36	126.66	119.08
2	C	369	GLN	O-C-N	7.36	129.65	122.07
2	C	431	LEU	O-C-N	-7.35	114.32	122.12
2	B	418	GLN	CA-C-N	7.35	128.10	119.94
2	B	418	GLN	C-N-CA	7.35	128.10	119.94
1	Z	505	GLY	O-C-N	-7.35	116.78	123.54
1	A	1254	ALA	CA-C-N	7.35	129.03	119.84
1	A	1254	ALA	C-N-CA	7.35	129.03	119.84
1	Z	574	THR	O-C-N	-7.34	116.75	123.50
2	X	457	ILE	N-CA-C	7.34	118.13	110.72
1	V	151	GLN	CA-C-N	7.32	131.58	120.82
1	V	151	GLN	C-N-CA	7.32	131.58	120.82
1	W	28	PHE	CA-CB-CG	-7.32	106.48	113.80
2	C	47	GLN	CB-CG-CD	-7.32	100.16	112.60
1	W	205	PRO	N-CD-CG	7.31	114.17	103.20
2	X	342	ASN	CA-CB-CG	7.31	119.91	112.60
1	W	40	SER	CA-C-O	7.31	128.38	119.97
2	X	450	TYR	N-CA-C	7.31	119.25	111.28
1	Z	519	THR	N-CA-C	-7.31	98.20	109.24
1	V	1342	THR	CA-C-N	7.31	133.47	122.95
1	V	1342	THR	C-N-CA	7.31	133.47	122.95
1	W	1220	ILE	N-CA-C	-7.31	97.96	108.48
1	A	687	THR	O-C-N	-7.30	113.89	122.87
1	Z	881	VAL	N-CA-C	-7.30	97.61	108.85
1	A	411	VAL	CA-CB-CG2	7.30	122.81	110.40
1	A	854	ILE	N-CA-C	-7.30	97.59	108.46
1	V	633	PRO	CA-C-N	7.29	127.73	119.92
1	V	633	PRO	C-N-CA	7.29	127.73	119.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	862	ASP	CA-C-N	7.29	130.78	120.28
1	V	862	ASP	C-N-CA	7.29	130.78	120.28
1	Z	1014	ASN	N-CA-C	-7.29	97.36	108.67
1	W	273	LEU	N-CA-C	-7.29	97.98	109.50
1	A	1034	THR	N-CA-C	-7.29	97.55	108.99
1	V	1252	ARG	N-CA-CB	7.28	122.07	110.85
1	Z	676	SER	O-C-N	-7.28	115.10	123.33
1	A	708	ASN	CB-CA-C	-7.28	98.71	110.79
2	B	378	SER	N-CA-CB	7.27	120.80	110.12
2	C	244	ILE	N-CA-C	-7.27	97.69	108.45
1	W	631	VAL	O-C-N	7.26	130.73	123.18
1	A	1088	LEU	O-C-N	7.26	129.55	122.07
1	V	211	SER	CA-C-O	-7.26	112.51	119.91
1	Z	1082	PHE	N-CA-C	-7.25	98.27	109.52
2	B	367	ASN	OD1-CG-ND2	7.25	129.85	122.60
1	A	171	ASN	CA-CB-CG	7.25	119.85	112.60
1	V	853	ASN	CA-C-O	7.25	129.20	121.45
2	B	405	GLY	CA-C-N	7.24	129.98	120.28
2	B	405	GLY	C-N-CA	7.24	129.98	120.28
2	B	75	ASN	OD1-CG-ND2	-7.24	115.36	122.60
1	W	267	TYR	N-CA-CB	7.24	121.52	109.94
1	A	325	ASN	CA-C-N	7.23	128.88	119.84
1	A	325	ASN	C-N-CA	7.23	128.88	119.84
2	B	370	THR	N-CA-CB	7.23	120.74	110.12
1	V	1338	LEU	N-CA-C	-7.23	103.77	112.59
1	Z	1280	ILE	N-CA-C	-7.23	96.67	107.37
1	V	1250	PRO	N-CA-CB	7.22	106.96	102.92
2	C	358	ILE	O-C-N	7.21	128.87	121.87
1	W	1016	ILE	CB-CA-C	7.20	118.28	111.44
1	V	725	GLY	CA-C-N	7.20	127.77	120.14
1	V	725	GLY	C-N-CA	7.20	127.77	120.14
1	Z	695	SER	CA-C-O	7.20	127.99	119.28
1	Z	1223	ASN	N-CA-CB	7.20	122.65	110.49
1	Z	1212	PHE	CA-CB-CG	-7.19	106.61	113.80
2	C	415	ASN	CA-CB-CG	-7.18	105.42	112.60
1	W	1016	ILE	N-CA-C	-7.18	105.38	111.56
1	W	1051	VAL	CA-C-N	-7.18	113.74	123.14
1	W	1051	VAL	C-N-CA	-7.18	113.74	123.14
1	Z	1084	THR	N-CA-C	-7.18	95.93	108.20
1	W	1336	PRO	CA-C-N	7.17	135.24	121.54
1	W	1336	PRO	C-N-CA	7.17	135.24	121.54
1	Z	745	ASN	CA-C-N	7.17	130.40	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	745	ASN	C-N-CA	7.17	130.40	120.65
1	W	789	TYR	N-CA-C	-7.17	94.42	107.75
1	V	806	THR	CA-C-N	7.17	126.84	119.82
1	V	806	THR	C-N-CA	7.17	126.84	119.82
2	C	412	SER	N-CA-CB	7.16	120.40	110.01
1	W	218	TYR	N-CA-C	-7.16	98.13	109.23
2	C	182	VAL	CA-C-O	-7.16	112.89	120.76
2	X	364	THR	N-CA-CB	7.16	120.39	110.01
1	Z	158	PRO	N-CA-C	-7.16	103.81	113.40
1	Z	211	SER	N-CA-C	-7.16	97.92	109.58
1	A	557	THR	N-CA-C	-7.15	98.20	109.07
1	Z	632	ILE	N-CA-CB	7.15	119.29	111.64
1	Z	325	ASN	CA-CB-CG	7.15	119.75	112.60
2	C	264	ARG	NE-CZ-NH2	7.14	125.63	119.20
1	W	111	SER	O-C-N	7.14	132.86	122.43
2	C	358	ILE	CA-C-O	-7.14	113.52	120.95
1	W	651	ASN	N-CA-C	-7.14	98.17	108.60
1	W	85	ASP	N-CA-CB	7.14	121.56	110.21
1	A	819	ILE	N-CA-C	7.13	119.19	111.77
1	Z	340	TYR	CA-C-N	7.13	132.06	121.72
1	Z	340	TYR	C-N-CA	7.13	132.06	121.72
2	X	325	SER	N-CA-C	-7.13	104.58	113.28
1	W	1077	VAL	N-CA-C	-7.13	98.13	108.11
2	X	274	VAL	N-CA-CB	7.13	120.60	111.83
1	Z	462	ILE	N-CA-C	-7.13	98.19	108.17
2	X	453	ILE	O-C-N	7.12	128.78	121.87
1	A	663	VAL	CA-CB-CG2	-7.12	98.30	110.40
2	C	32	THR	N-CA-CB	7.11	120.56	110.24
1	A	1011	GLN	N-CA-C	7.10	119.02	111.28
1	V	565	THR	N-CA-CB	7.10	121.99	110.42
2	B	242	SER	O-C-N	-7.10	113.11	122.20
1	V	1178	LEU	CA-C-O	-7.10	113.37	120.82
1	A	418	THR	O-C-N	-7.10	115.25	121.71
1	V	523	TYR	CB-CA-C	-7.08	100.42	110.34
2	X	415	ASN	CA-CB-CG	7.08	119.69	112.60
1	W	337	PHE	N-CA-C	-7.08	97.87	108.99
1	W	779	PRO	CA-C-N	7.08	135.17	122.64
1	W	779	PRO	C-N-CA	7.08	135.17	122.64
1	V	1316	HIS	CA-CB-CG	-7.07	106.73	113.80
1	W	724	SER	N-CA-C	-7.07	104.23	112.92
1	W	677	LEU	O-C-N	-7.06	116.04	121.55
1	A	646	PHE	N-CA-C	-7.06	106.57	114.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	494	GLU	CA-C-O	-7.06	112.89	121.36
1	A	1301	PHE	CA-CB-CG	7.05	120.85	113.80
2	B	450	TYR	CA-C-N	7.05	127.80	119.98
2	B	450	TYR	C-N-CA	7.05	127.80	119.98
1	A	243	ARG	NE-CZ-NH2	-7.04	112.86	119.20
1	A	633	PRO	N-CA-C	7.04	119.29	110.70
2	X	396	LEU	CA-C-N	7.04	129.59	120.44
2	X	396	LEU	C-N-CA	7.04	129.59	120.44
2	X	208	GLN	CA-C-O	7.04	128.92	121.25
1	A	1377	PRO	CA-C-N	7.04	131.01	120.95
1	A	1377	PRO	C-N-CA	7.04	131.01	120.95
1	Z	819	ILE	CA-CB-CG1	7.03	122.36	110.40
2	B	50	LEU	O-C-N	-7.03	113.29	122.43
1	Z	692	PHE	CA-CB-CG	-7.03	106.77	113.80
1	Z	849	PHE	CA-CB-CG	7.03	120.83	113.80
1	W	372	GLN	CA-C-N	7.03	127.03	122.18
1	W	372	GLN	C-N-CA	7.03	127.03	122.18
1	V	696	SER	CA-C-O	-7.03	112.78	120.30
1	W	1380	SER	CA-C-N	7.03	133.25	122.08
1	W	1380	SER	C-N-CA	7.03	133.25	122.08
1	Z	1334	ALA	N-CA-CB	7.02	120.41	110.36
1	V	507	ILE	N-CA-CB	7.02	120.80	111.25
1	W	559	LEU	CA-C-O	-7.02	113.40	121.47
1	W	693	PRO	O-C-N	7.02	130.63	122.98
1	A	560	ALA	CA-C-N	7.02	127.01	119.78
1	A	560	ALA	C-N-CA	7.02	127.01	119.78
1	A	1364	TYR	CB-CG-CD1	-7.02	110.28	120.80
1	V	1247	ASN	CA-C-N	7.01	129.56	120.44
1	V	1247	ASN	C-N-CA	7.01	129.56	120.44
1	A	1319	SER	O-C-N	-7.01	116.94	121.85
1	V	695	SER	CA-C-O	7.01	127.45	119.18
1	A	513	ALA	CA-C-O	-7.01	111.52	119.79
2	B	207	GLN	CA-C-O	7.01	128.28	120.43
1	Z	721	THR	N-CA-C	7.01	119.24	109.15
2	B	217	VAL	CB-CA-C	7.00	117.86	111.00
2	X	223	ILE	CA-C-O	7.00	127.67	120.39
1	Z	90	VAL	CA-C-N	7.00	131.12	122.37
1	Z	90	VAL	C-N-CA	7.00	131.12	122.37
1	Z	854	ILE	N-CA-C	-7.00	99.10	108.06
1	V	1246	GLU	N-CA-C	-7.00	103.03	112.26
1	Z	568	ALA	CA-C-O	-6.99	113.29	120.63
1	A	827	ASN	CA-CB-CG	-6.99	105.61	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	351	THR	CA-C-O	-6.98	113.45	120.64
1	V	969	THR	CA-C-N	6.98	129.51	120.44
1	V	969	THR	C-N-CA	6.98	129.51	120.44
1	W	387	VAL	N-CA-C	-6.98	94.82	109.34
1	V	332	ILE	CA-C-O	6.98	128.03	120.43
1	V	877	VAL	N-CA-C	-6.98	98.43	108.48
1	W	484	ASN	N-CA-C	-6.98	95.81	108.02
2	C	342	ASN	CA-C-N	6.97	129.94	120.38
2	C	342	ASN	C-N-CA	6.97	129.94	120.38
1	V	772	SER	CA-C-O	-6.97	113.93	120.34
1	Z	326	PRO	CA-C-N	6.97	129.62	120.28
1	Z	326	PRO	C-N-CA	6.97	129.62	120.28
1	V	1201	SER	N-CA-C	6.96	119.30	110.24
2	X	242	SER	N-CA-C	-6.96	103.86	114.16
1	V	617	ASN	CA-CB-CG	-6.96	105.64	112.60
2	C	465	VAL	CA-C-N	6.95	129.60	120.28
2	C	465	VAL	C-N-CA	6.95	129.60	120.28
1	A	665	ASP	CA-CB-CG	6.95	119.55	112.60
2	B	379	LEU	O-C-N	6.95	130.07	122.15
2	C	276	TYR	N-CA-CB	6.95	120.26	110.11
1	W	597	VAL	CA-C-O	-6.95	112.74	120.46
1	V	18	SER	CA-C-N	6.95	130.87	123.08
1	V	18	SER	C-N-CA	6.95	130.87	123.08
1	V	19	GLY	N-CA-C	-6.95	106.21	114.48
1	A	598	ASP	N-CA-C	-6.95	102.80	112.45
1	A	1085	TYR	CA-C-N	6.95	129.59	120.28
1	A	1085	TYR	C-N-CA	6.95	129.59	120.28
1	W	232	SER	CA-C-O	6.94	127.68	119.28
1	V	542	SER	N-CA-C	-6.94	99.28	110.32
1	A	663	VAL	CA-CB-CG1	6.93	122.19	110.40
1	V	1105	ASN	CA-CB-CG	6.93	119.53	112.60
1	W	950	PHE	N-CA-C	-6.93	97.99	108.52
1	Z	1250	PRO	CA-C-O	-6.92	113.53	121.56
1	W	977	PHE	CB-CA-C	-6.92	102.49	110.17
2	B	293	TYR	N-CA-C	-6.92	104.41	112.92
1	A	117	LEU	CA-C-N	6.92	128.49	119.84
1	A	117	LEU	C-N-CA	6.92	128.49	119.84
1	Z	999	THR	CA-C-N	6.92	127.78	120.03
1	Z	999	THR	C-N-CA	6.92	127.78	120.03
1	A	764	MET	CA-C-N	6.91	126.93	121.61
1	A	764	MET	C-N-CA	6.91	126.93	121.61
1	V	92	PHE	CA-C-O	-6.91	113.29	120.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	381	SER	CB-CA-C	-6.91	100.03	110.88
1	A	834	VAL	N-CA-C	-6.91	98.21	108.85
1	W	1339	GLY	O-C-N	-6.91	115.78	124.00
1	Z	1115	ALA	N-CA-C	-6.91	99.99	110.14
1	V	754	ILE	N-CA-C	-6.90	94.98	109.34
1	W	1141	GLY	CA-C-N	6.90	130.62	120.95
1	W	1141	GLY	C-N-CA	6.90	130.62	120.95
2	C	311	TYR	CA-C-N	6.90	131.81	122.01
2	C	311	TYR	C-N-CA	6.90	131.81	122.01
1	A	93	VAL	N-CA-C	-6.89	98.25	108.45
1	A	279	GLN	OE1-CD-NE2	-6.89	115.71	122.60
2	C	438	LEU	O-C-N	-6.89	114.82	122.12
1	W	165	SER	CA-C-N	6.89	131.16	120.82
1	W	165	SER	C-N-CA	6.89	131.16	120.82
1	W	660	PRO	CA-C-N	6.89	130.20	120.28
1	W	660	PRO	C-N-CA	6.89	130.20	120.28
1	A	677	LEU	CA-C-N	6.89	128.45	119.84
1	A	677	LEU	C-N-CA	6.89	128.45	119.84
2	X	112	GLY	CA-C-N	6.89	130.07	120.29
2	X	112	GLY	C-N-CA	6.89	130.07	120.29
1	V	53	ILE	N-CA-CB	6.89	118.04	110.53
1	Z	1183	PHE	CA-CB-CG	-6.89	106.91	113.80
1	A	567	LEU	N-CA-C	-6.88	97.99	109.07
1	V	924	GLY	N-CA-C	-6.87	103.73	111.63
1	V	279	GLN	CG-CD-NE2	6.87	126.70	116.40
2	B	64	VAL	N-CA-CB	6.87	118.72	112.06
1	V	467	THR	O-C-N	6.87	131.23	123.27
1	A	525	ILE	N-CA-C	-6.86	98.61	108.48
1	Z	1181	THR	N-CA-C	-6.86	99.28	108.74
1	A	248	THR	N-CA-C	-6.86	98.89	109.52
1	A	459	GLU	N-CA-C	6.85	119.90	110.24
1	Z	1090	PHE	CA-C-N	6.85	129.77	120.38
1	Z	1090	PHE	C-N-CA	6.85	129.77	120.38
1	A	1264	LEU	CA-C-N	6.85	126.32	118.85
1	A	1264	LEU	C-N-CA	6.85	126.32	118.85
2	C	397	ASN	CA-CB-CG	6.85	119.45	112.60
1	W	364	PRO	CA-C-O	-6.85	113.31	121.67
1	W	465	SER	N-CA-C	-6.84	99.04	109.85
2	X	427	SER	N-CA-CB	6.84	119.94	110.01
1	A	276	ASN	CA-CB-CG	-6.84	105.76	112.60
2	B	436	ASN	OD1-CG-ND2	6.84	129.44	122.60
1	A	64	THR	CA-C-O	6.84	126.57	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1196	ASN	CA-CB-CG	-6.83	105.77	112.60
1	W	1206	GLY	CA-C-N	6.83	129.77	120.54
1	W	1206	GLY	C-N-CA	6.83	129.77	120.54
1	W	363	TYR	O-C-N	-6.83	117.07	121.85
1	W	1185	VAL	CA-C-O	6.83	127.00	120.31
1	V	892	PHE	CA-CB-CG	-6.83	106.97	113.80
2	X	135	VAL	N-CA-C	-6.83	98.35	108.45
1	A	801	LEU	O-C-N	-6.82	115.10	122.06
2	B	200	ALA	O-C-N	-6.82	115.35	123.27
1	A	1007	LEU	N-CA-C	-6.82	99.19	110.17
2	B	246	VAL	N-CA-CB	6.82	118.16	110.72
1	V	653	VAL	CA-C-O	6.82	128.31	120.67
1	Z	1002	GLU	CA-C-N	6.82	131.93	120.88
1	Z	1002	GLU	C-N-CA	6.82	131.93	120.88
1	Z	883	VAL	CA-C-O	-6.82	112.46	119.89
1	Z	1154	ASN	OD1-CG-ND2	-6.82	115.78	122.60
1	A	41	ASN	CA-C-N	6.82	130.14	120.53
1	A	41	ASN	C-N-CA	6.82	130.14	120.53
1	V	529	TYR	CA-C-O	-6.82	113.00	120.43
1	V	782	THR	N-CA-C	-6.81	104.17	113.30
1	W	206	PHE	N-CA-C	-6.81	96.56	108.20
2	C	369	GLN	N-CA-C	6.81	118.35	111.07
1	A	108	ILE	CA-C-N	6.80	126.76	120.03
1	A	108	ILE	C-N-CA	6.80	126.76	120.03
1	A	1376	GLY	CA-C-N	6.80	128.34	119.84
1	A	1376	GLY	C-N-CA	6.80	128.34	119.84
1	Z	950	PHE	CA-C-O	-6.80	113.41	120.89
1	Z	284	ALA	CA-C-O	6.80	127.99	120.31
1	Z	994	PHE	N-CA-C	-6.80	105.02	113.38
1	V	354	GLU	CA-C-O	-6.79	114.14	121.14
1	Z	106	VAL	CA-C-O	-6.79	114.66	121.45
2	C	410	LEU	N-CA-C	6.79	118.75	111.36
1	W	147	THR	CA-C-N	6.79	129.37	120.28
1	W	147	THR	C-N-CA	6.79	129.37	120.28
1	A	558	THR	N-CA-C	-6.78	99.17	109.95
2	X	155	SER	N-CA-C	-6.78	105.30	113.97
2	B	294	ALA	N-CA-C	6.77	120.12	109.96
1	V	994	PHE	CA-CB-CG	-6.77	107.03	113.80
1	Z	795	ALA	CA-C-N	6.77	134.47	121.54
1	Z	795	ALA	C-N-CA	6.77	134.47	121.54
1	W	592	SER	N-CA-C	6.76	119.49	111.71
1	Z	1218	SER	CA-C-O	-6.76	113.23	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	866	LEU	N-CA-CB	6.76	120.01	109.94
1	W	792	PRO	N-CA-CB	6.76	110.34	103.25
1	V	972	ASN	CA-CB-CG	-6.75	105.85	112.60
1	V	1082	PHE	CA-CB-CG	-6.75	107.05	113.80
1	W	236	TYR	CA-C-N	-6.75	116.34	122.28
1	W	236	TYR	C-N-CA	-6.75	116.34	122.28
1	W	710	ASN	CA-C-N	6.75	130.96	121.24
1	W	710	ASN	C-N-CA	6.75	130.96	121.24
1	A	889	ASN	OD1-CG-ND2	-6.75	115.85	122.60
1	V	1302	GLN	OE1-CD-NE2	6.74	129.34	122.60
1	W	450	THR	N-CA-C	-6.74	99.50	108.19
1	A	329	ASN	CA-CB-CG	6.74	119.34	112.60
1	A	814	TYR	CA-C-O	-6.74	113.56	121.44
1	V	468	ILE	CA-C-O	-6.74	112.79	120.67
1	W	725	GLY	CA-C-N	6.74	128.26	119.84
1	W	725	GLY	C-N-CA	6.74	128.26	119.84
1	V	982	GLY	N-CA-C	-6.74	97.22	113.18
1	Z	1070	PRO	CA-C-N	-6.74	114.08	122.84
1	Z	1070	PRO	C-N-CA	-6.74	114.08	122.84
1	W	101	TYR	N-CA-C	-6.73	104.28	113.30
1	W	1059	TYR	CA-C-O	-6.73	114.14	119.99
2	B	294	ALA	O-C-N	6.72	131.20	122.93
1	Z	588	VAL	CA-CB-CG1	6.72	121.83	110.40
1	Z	449	SER	CA-C-O	-6.72	112.93	120.66
1	V	332	ILE	O-C-N	-6.72	115.81	123.07
1	A	115	LYS	N-CA-C	6.72	118.26	111.07
1	V	67	THR	CA-CB-OG1	6.72	119.68	109.60
1	A	930	LEU	CA-C-N	6.72	131.94	121.26
1	A	930	LEU	C-N-CA	6.72	131.94	121.26
1	V	147	THR	N-CA-C	-6.71	105.06	112.72
1	W	497	PRO	CA-C-N	6.71	130.29	120.82
1	W	497	PRO	C-N-CA	6.71	130.29	120.82
1	V	1252	ARG	N-CA-C	-6.71	99.73	110.14
1	W	256	SER	N-CA-C	-6.71	99.32	108.38
2	B	346	LEU	CA-C-N	6.71	129.56	120.77
2	B	346	LEU	C-N-CA	6.71	129.56	120.77
2	C	317	ILE	CA-CB-CG1	6.71	121.80	110.40
1	A	479	ALA	CA-C-N	6.71	130.23	120.71
1	A	479	ALA	C-N-CA	6.71	130.23	120.71
2	C	474	ILE	N-CA-C	-6.70	107.34	113.71
1	V	534	ASP	N-CA-C	-6.70	97.29	108.75
1	W	1290	TYR	CA-C-N	6.70	132.49	122.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	1290	TYR	C-N-CA	6.70	132.49	122.58
1	V	849	PHE	CA-CB-CG	-6.69	107.11	113.80
1	Z	1371	VAL	N-CA-CB	6.69	120.58	111.21
2	B	435	LEU	CA-C-N	6.69	129.24	120.28
2	B	435	LEU	C-N-CA	6.69	129.24	120.28
2	C	312	VAL	CA-CB-CG1	6.69	121.77	110.40
1	W	527	ALA	CA-C-N	6.69	132.20	122.77
1	W	527	ALA	C-N-CA	6.69	132.20	122.77
1	A	661	ASP	CA-CB-CG	6.68	119.28	112.60
1	A	1293	SER	N-CA-C	-6.68	98.50	108.99
1	A	821	GLY	N-CA-C	-6.68	105.29	114.64
1	A	548	VAL	N-CA-CB	6.68	119.03	111.21
1	Z	1118	TYR	CA-C-O	6.68	130.06	120.51
1	Z	1368	LEU	N-CA-CB	6.68	121.31	110.43
1	V	245	LEU	N-CA-CB	6.67	120.14	110.06
1	Z	812	ASN	N-CA-C	-6.67	98.09	109.24
1	Z	862	ASP	CA-C-N	6.67	129.55	120.54
1	Z	862	ASP	C-N-CA	6.67	129.55	120.54
1	A	537	LEU	O-C-N	-6.67	115.59	123.06
1	W	651	ASN	N-CA-CB	6.67	121.73	111.46
1	Z	849	PHE	N-CA-C	-6.67	104.96	113.23
1	Z	1229	THR	N-CA-C	-6.67	98.76	109.96
2	X	321	TYR	O-C-N	6.67	130.89	123.16
1	V	512	TYR	N-CA-C	-6.66	96.81	108.20
1	V	1181	THR	CA-CB-OG1	6.66	119.59	109.60
1	Z	264	GLN	N-CA-C	-6.66	98.11	109.24
2	B	41	THR	N-CA-C	6.66	119.59	108.73
1	V	649	PRO	N-CA-C	-6.66	107.00	114.92
1	W	897	THR	O-C-N	6.66	126.98	121.32
1	Z	699	ASN	CA-C-O	-6.66	114.50	121.29
2	C	294	ALA	CA-C-N	6.66	132.89	122.30
2	C	294	ALA	C-N-CA	6.66	132.89	122.30
1	Z	735	ASN	CA-CB-CG	6.66	119.26	112.60
1	V	410	THR	CA-C-O	-6.66	113.87	121.66
1	W	1376	GLY	CA-C-N	6.66	128.16	119.84
1	W	1376	GLY	C-N-CA	6.66	128.16	119.84
1	Z	57	ALA	CA-C-N	6.66	132.58	122.93
1	Z	57	ALA	C-N-CA	6.66	132.58	122.93
1	Z	745	ASN	OD1-CG-ND2	-6.66	115.94	122.60
1	W	431	LYS	O-C-N	-6.65	116.28	123.26
1	W	1139	LEU	N-CA-C	-6.65	97.44	108.34
1	Z	586	PHE	N-CA-C	-6.65	97.57	108.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	889	ASN	OD1-CG-ND2	-6.65	115.95	122.60
1	A	651	ASN	OD1-CG-ND2	-6.64	115.95	122.60
1	Z	991	THR	N-CA-C	-6.64	103.33	112.03
1	V	805	ALA	O-C-N	6.64	131.84	123.01
1	W	1212	PHE	CA-C-N	6.64	132.40	122.98
1	W	1212	PHE	C-N-CA	6.64	132.40	122.98
1	W	1312	GLN	O-C-N	-6.64	115.05	122.55
1	Z	19	GLY	CA-C-N	6.63	130.12	120.51
1	Z	19	GLY	C-N-CA	6.63	130.12	120.51
1	A	714	ALA	N-CA-C	6.63	119.59	110.24
1	Z	456	PRO	CA-C-N	6.63	128.69	121.00
1	Z	456	PRO	C-N-CA	6.63	128.69	121.00
1	A	1280	ILE	N-CA-CB	6.63	118.56	111.00
2	C	416	ALA	N-CA-CB	6.63	119.62	110.01
1	W	1181	THR	CA-C-N	6.62	133.03	120.97
1	W	1181	THR	C-N-CA	6.62	133.03	120.97
1	W	715	VAL	N-CA-CB	6.62	118.30	110.55
1	Z	687	THR	CA-C-N	-6.62	117.61	122.18
1	Z	687	THR	C-N-CA	-6.62	117.61	122.18
1	A	806	THR	O-C-N	-6.62	117.18	121.88
1	A	1323	ALA	CA-C-N	6.62	128.11	119.84
1	A	1323	ALA	C-N-CA	6.62	128.11	119.84
2	X	472	ARG	NE-CZ-NH2	-6.62	113.25	119.20
2	C	121	ASN	N-CA-CB	6.61	120.05	110.06
1	V	791	LEU	CA-C-N	6.61	126.53	119.85
1	V	791	LEU	C-N-CA	6.61	126.53	119.85
1	Z	844	VAL	CA-C-N	6.61	128.11	119.84
1	Z	844	VAL	C-N-CA	6.61	128.11	119.84
1	W	943	ALA	N-CA-C	6.61	119.09	110.43
1	Z	1390	ASN	CA-CB-CG	6.61	119.21	112.60
1	W	1259	PRO	N-CA-C	6.61	121.58	111.34
1	W	1040	SER	O-C-N	-6.60	115.50	122.96
1	V	1083	MET	N-CA-C	6.60	119.59	110.35
1	V	752	TYR	CA-C-O	-6.60	111.91	118.97
1	A	851	GLY	CA-C-N	6.59	130.77	121.02
1	A	851	GLY	C-N-CA	6.59	130.77	121.02
1	W	548	VAL	N-CA-CB	6.59	118.92	111.21
2	C	147	THR	CA-CB-OG1	6.58	119.48	109.60
2	C	454	ILE	CA-C-N	6.58	129.63	120.29
2	C	454	ILE	C-N-CA	6.58	129.63	120.29
1	V	933	SER	N-CA-C	-6.58	98.17	109.15
2	B	375	LEU	CA-C-N	6.57	129.08	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	375	LEU	C-N-CA	6.57	129.08	120.28
1	Z	977	PHE	CA-CB-CG	-6.56	107.24	113.80
1	V	1354	GLN	N-CA-CB	6.56	120.82	110.84
1	Z	496	ILE	CA-C-N	6.56	126.53	120.03
1	Z	496	ILE	C-N-CA	6.56	126.53	120.03
1	A	1108	VAL	CA-C-N	6.55	131.61	121.85
1	A	1108	VAL	C-N-CA	6.55	131.61	121.85
2	X	174	PHE	N-CA-C	-6.55	98.30	109.24
2	X	240	SER	N-CA-C	-6.55	104.43	112.88
2	X	400	ILE	N-CA-C	6.55	117.30	110.62
1	V	1288	LYS	CB-CA-C	-6.55	100.44	110.26
1	V	1384	ALA	N-CA-CB	6.54	119.60	110.90
1	Z	637	SER	N-CA-C	-6.54	99.71	108.74
1	A	494	GLU	N-CA-C	-6.54	100.27	109.69
1	A	1127	VAL	O-C-N	-6.54	115.50	122.95
2	X	273	GLN	N-CA-C	-6.54	96.42	107.99
1	W	907	TYR	N-CA-C	6.53	119.17	108.52
2	C	162	ALA	CA-C-N	6.53	132.40	122.93
2	C	162	ALA	C-N-CA	6.53	132.40	122.93
1	A	323	THR	N-CA-C	-6.52	99.39	109.24
1	A	264	GLN	CA-C-N	6.52	133.04	122.29
1	A	264	GLN	C-N-CA	6.52	133.04	122.29
1	A	318	THR	N-CA-C	-6.51	97.06	108.20
1	A	792	PRO	CA-C-N	6.51	130.59	120.75
1	A	792	PRO	C-N-CA	6.51	130.59	120.75
1	A	1128	ILE	N-CA-C	-6.51	98.74	108.12
1	W	1279	VAL	CB-CA-C	6.51	119.91	110.98
1	W	638	THR	N-CA-C	-6.51	99.21	109.50
1	Z	288	ASN	CA-C-N	6.51	129.44	120.39
1	Z	288	ASN	C-N-CA	6.51	129.44	120.39
1	A	350	THR	CA-C-O	6.51	126.09	119.97
2	C	258	VAL	N-CA-CB	6.51	119.55	111.41
1	V	256	SER	O-C-N	-6.51	114.69	123.15
1	V	1071	TRP	CD2-CE2-CZ2	-6.51	115.89	122.40
2	X	183	THR	CA-CB-OG1	6.51	119.36	109.60
1	W	1267	ALA	CA-C-N	6.51	126.53	119.89
1	W	1267	ALA	C-N-CA	6.51	126.53	119.89
1	A	1014	ASN	N-CA-C	-6.50	96.95	110.80
1	W	816	THR	N-CA-C	-6.50	99.27	108.96
1	V	464	GLY	CA-C-O	-6.50	115.21	121.06
1	A	1022	HIS	CE1-NE2-CD2	-6.50	102.50	109.00
1	V	398	ILE	CA-C-N	6.50	131.73	122.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	398	ILE	C-N-CA	6.50	131.73	122.24
1	W	327	SER	N-CA-C	-6.50	105.51	113.50
1	Z	458	SER	CA-C-O	-6.50	113.72	120.99
1	A	966	ILE	CB-CA-C	6.50	116.72	110.16
1	V	395	GLY	CA-C-N	6.50	132.55	123.07
1	V	395	GLY	C-N-CA	6.50	132.55	123.07
1	W	439	ASN	OD1-CG-ND2	6.50	129.09	122.60
1	Z	347	THR	CA-C-O	-6.50	114.28	121.23
1	W	126	TYR	CA-C-N	6.49	133.90	122.67
1	W	126	TYR	C-N-CA	6.49	133.90	122.67
2	B	374	THR	N-CA-C	6.49	118.35	111.28
1	W	938	LEU	CB-CA-C	-6.49	103.20	111.70
1	A	332	ILE	CA-C-N	6.49	132.03	122.82
1	A	332	ILE	C-N-CA	6.49	132.03	122.82
1	Z	892	PHE	N-CA-C	-6.49	100.35	110.14
1	A	708	ASN	N-CA-CB	6.48	119.65	110.12
1	Z	917	LEU	CA-C-O	-6.48	113.25	120.25
1	A	1087	ASP	CA-C-N	6.48	128.86	120.44
1	A	1087	ASP	C-N-CA	6.48	128.86	120.44
1	Z	418	THR	N-CA-C	-6.48	97.88	108.82
2	C	301	ILE	CB-CA-C	6.47	119.64	110.84
1	V	75	PHE	CA-C-N	6.47	127.93	119.84
1	V	75	PHE	C-N-CA	6.47	127.93	119.84
2	C	319	ALA	CA-C-N	6.47	131.25	122.84
2	C	319	ALA	C-N-CA	6.47	131.25	122.84
1	Z	542	SER	N-CA-C	-6.47	100.63	109.95
2	X	409	SER	CA-C-N	6.47	128.95	120.28
2	X	409	SER	C-N-CA	6.47	128.95	120.28
1	A	386	PRO	CB-CA-C	6.47	117.30	111.87
1	W	376	VAL	O-C-N	6.47	130.10	122.66
1	Z	1319	SER	CA-C-O	6.47	125.76	119.55
1	V	770	VAL	N-CA-CB	6.46	119.92	111.19
1	V	1359	LEU	CA-C-N	6.46	126.84	119.92
1	V	1359	LEU	C-N-CA	6.46	126.84	119.92
1	W	1232	ASP	CA-CB-CG	6.46	119.06	112.60
1	A	556	VAL	N-CA-C	-6.46	104.86	110.74
1	V	4	PRO	N-CA-C	6.46	120.98	111.03
1	A	567	LEU	O-C-N	-6.46	115.67	123.29
1	A	1163	PHE	CA-C-O	6.46	128.69	121.40
1	W	665	ASP	CA-CB-CG	6.46	119.06	112.60
1	A	1154	ASN	N-CA-C	-6.45	97.06	110.80
1	V	1105	ASN	CB-CG-OD1	-6.45	107.90	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	1120	ASN	CA-CB-CG	6.45	119.05	112.60
1	A	68	THR	CA-CB-CG2	6.45	121.46	110.50
2	C	37	VAL	CA-CB-CG1	6.45	121.36	110.40
1	V	462	ILE	CA-C-O	-6.45	113.67	120.57
1	W	721	THR	N-CA-C	-6.44	99.67	109.85
1	V	446	PRO	CA-C-N	6.44	130.55	121.02
1	V	446	PRO	C-N-CA	6.44	130.55	121.02
1	A	469	THR	N-CA-C	-6.44	99.52	109.24
1	A	496	ILE	CA-C-O	-6.44	114.44	119.98
1	V	7	ALA	N-CA-CB	6.44	120.16	109.60
1	Z	564	LEU	N-CA-C	-6.44	97.92	108.41
1	A	635	SER	N-CA-C	-6.43	99.53	109.24
1	V	226	ASN	N-CA-C	-6.43	104.27	111.28
2	C	47	GLN	O-C-N	-6.43	115.71	123.29
1	Z	6	SER	N-CA-C	-6.43	98.61	108.76
1	V	388	TYR	O-C-N	-6.42	115.10	122.68
1	Z	324	ILE	CA-C-N	6.42	129.83	120.51
1	Z	324	ILE	C-N-CA	6.42	129.83	120.51
1	Z	1262	VAL	CA-C-N	6.42	126.61	120.31
1	Z	1262	VAL	C-N-CA	6.42	126.61	120.31
1	V	156	THR	N-CA-C	-6.42	104.93	112.89
1	V	51	SER	N-CA-C	6.42	119.09	111.71
2	X	417	LEU	CA-C-N	6.42	128.79	120.44
2	X	417	LEU	C-N-CA	6.42	128.79	120.44
1	Z	171	ASN	CA-C-N	6.42	133.81	121.54
1	Z	171	ASN	C-N-CA	6.42	133.81	121.54
1	V	597	VAL	N-CA-C	-6.42	104.00	111.00
1	W	385	LEU	CA-C-O	-6.42	113.69	119.59
1	W	1264	LEU	CA-C-N	6.42	127.86	119.84
1	W	1264	LEU	C-N-CA	6.42	127.86	119.84
1	W	1266	ASN	CB-CG-ND2	-6.42	106.78	116.40
2	X	366	ASN	OD1-CG-ND2	-6.42	116.18	122.60
2	B	111	GLN	N-CA-CB	6.42	120.62	110.55
1	V	1281	THR	CA-C-N	6.42	126.97	120.04
1	V	1281	THR	C-N-CA	6.42	126.97	120.04
1	A	1082	PHE	CA-CB-CG	-6.41	107.39	113.80
1	Z	1333	ARG	NE-CZ-NH2	6.41	124.97	119.20
2	B	161	VAL	N-CA-C	-6.41	107.00	113.47
1	W	109	PRO	CA-C-O	-6.40	114.04	121.34
1	Z	1146	THR	CA-C-O	-6.40	114.69	121.99
1	Z	1292	THR	N-CA-C	-6.40	98.46	108.90
1	Z	428	ILE	N-CA-C	-6.40	98.66	107.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	928	THR	N-CA-C	6.40	119.64	110.24
1	V	1036	LEU	CA-C-N	6.40	129.80	120.91
1	V	1036	LEU	C-N-CA	6.40	129.80	120.91
1	W	1254	ALA	CA-C-O	-6.40	115.14	120.71
2	X	437	SER	CA-C-N	6.40	130.03	120.31
2	X	437	SER	C-N-CA	6.40	130.03	120.31
1	Z	258	SER	CA-C-O	-6.40	114.15	121.19
1	A	327	SER	N-CA-CB	6.40	120.28	110.81
1	Z	989	ASN	OD1-CG-ND2	6.40	129.00	122.60
1	A	662	ALA	CA-C-O	-6.39	111.37	120.51
1	V	448	TYR	CA-C-N	6.39	131.63	121.66
1	V	448	TYR	C-N-CA	6.39	131.63	121.66
1	Z	43	THR	CA-C-N	6.39	129.68	120.79
1	Z	43	THR	C-N-CA	6.39	129.68	120.79
1	Z	418	THR	CA-C-N	6.39	126.41	119.89
1	Z	418	THR	C-N-CA	6.39	126.41	119.89
1	V	36	GLN	CA-C-O	-6.39	114.00	121.16
1	V	790	LEU	CA-C-N	6.39	130.40	120.68
1	V	790	LEU	C-N-CA	6.39	130.40	120.68
2	X	420	LYS	N-CA-C	6.39	118.25	111.28
1	Z	1353	LEU	CA-C-N	6.39	131.20	122.19
1	Z	1353	LEU	C-N-CA	6.39	131.20	122.19
2	B	188	LEU	N-CA-CB	6.39	120.91	110.37
1	V	1250	PRO	CB-CA-C	-6.38	106.51	111.87
2	B	403	LEU	CA-C-O	6.38	127.52	120.82
2	X	125	VAL	CB-CA-C	6.38	117.29	110.53
1	A	183	LEU	N-CA-C	-6.38	99.34	109.23
2	X	403	LEU	N-CA-C	6.38	118.23	111.28
1	V	61	ASN	CA-CB-CG	6.38	118.98	112.60
2	C	179	PHE	O-C-N	-6.37	117.39	121.85
1	V	783	SER	N-CA-C	-6.37	97.01	108.48
1	V	850	VAL	N-CA-C	-6.37	96.53	107.24
1	Z	106	VAL	N-CA-C	-6.37	98.56	108.44
1	V	1059	TYR	CA-C-N	6.37	127.81	119.84
1	V	1059	TYR	C-N-CA	6.37	127.81	119.84
1	W	915	SER	CA-C-N	6.37	126.39	119.89
1	W	915	SER	C-N-CA	6.37	126.39	119.89
1	V	1353	LEU	N-CA-C	-6.37	98.00	108.76
1	W	89	LYS	CB-CG-CD	6.37	125.95	111.30
2	C	139	GLU	N-CA-C	-6.37	104.43	111.82
1	W	762	VAL	N-CA-C	-6.37	106.79	112.90
1	W	1139	LEU	N-CA-CB	6.36	120.76	110.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	269	VAL	O-C-N	6.36	128.35	121.10
1	V	622	VAL	CA-C-O	-6.36	112.43	118.98
2	C	438	LEU	CA-C-N	6.36	129.32	120.29
2	C	438	LEU	C-N-CA	6.36	129.32	120.29
2	X	351	ILE	N-CA-C	6.36	117.11	110.62
1	A	1089	GLN	CA-C-N	6.35	129.04	120.65
1	A	1089	GLN	C-N-CA	6.35	129.04	120.65
1	A	420	THR	N-CA-C	-6.35	98.03	108.76
1	A	1354	GLN	CA-CB-CG	6.35	126.81	114.10
1	W	790	LEU	N-CA-C	-6.35	99.36	109.59
1	W	1338	LEU	N-CA-C	-6.35	105.11	112.92
1	A	1072	PHE	N-CA-C	-6.35	97.89	108.75
1	A	1165	ILE	N-CA-C	-6.35	99.00	108.46
2	C	381	SER	N-CA-C	6.35	118.20	111.28
1	Z	942	SER	CA-C-N	6.35	129.72	120.71
1	Z	942	SER	C-N-CA	6.35	129.72	120.71
2	B	29	ASN	CA-C-N	6.34	130.03	123.30
2	B	29	ASN	C-N-CA	6.34	130.03	123.30
1	V	1344	VAL	CA-C-N	6.34	126.09	119.05
1	V	1344	VAL	C-N-CA	6.34	126.09	119.05
1	V	283	ILE	O-C-N	-6.34	117.26	122.97
1	V	466	SER	N-CA-C	-6.34	98.94	107.88
1	V	1223	ASN	N-CA-CB	6.34	121.20	110.49
1	Z	2	THR	CA-C-O	-6.34	114.12	119.76
1	Z	439	ASN	CA-CB-CG	6.34	118.94	112.60
1	Z	946	GLN	OE1-CD-NE2	6.34	128.94	122.60
1	Z	819	ILE	N-CA-C	-6.34	105.16	111.88
1	V	1037	VAL	O-C-N	-6.33	115.71	122.61
1	A	225	GLY	O-C-N	-6.33	119.08	123.95
1	A	1061	TYR	CA-C-O	6.33	126.94	119.48
1	V	243	ARG	N-CA-C	-6.32	104.02	112.94
2	C	142	PRO	CA-C-O	-6.32	113.96	121.67
1	V	378	THR	CA-C-O	-6.32	114.26	121.72
1	V	380	SER	N-CA-C	-6.32	105.21	113.17
1	A	765	GLY	N-CA-C	-6.32	101.09	111.38
1	A	1376	GLY	CA-C-O	-6.32	112.49	121.52
1	V	238	PRO	CA-C-O	-6.32	114.21	121.98
1	Z	512	TYR	CB-CG-CD2	-6.32	111.33	120.80
1	Z	972	ASN	N-CA-C	6.31	118.97	111.33
1	W	1130	ASN	CA-CB-CG	6.31	118.91	112.60
1	W	192	SER	N-CA-C	-6.31	100.64	110.42
1	Z	194	SER	CA-C-N	-6.31	115.29	122.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	194	SER	C-N-CA	-6.31	115.29	122.42
1	Z	959	SER	CA-C-O	6.31	127.23	120.10
1	V	1093	THR	N-CA-CB	6.31	119.93	110.53
1	A	716	THR	N-CA-C	-6.30	98.34	109.06
1	Z	1255	PRO	CA-C-N	6.30	128.63	120.44
1	Z	1255	PRO	C-N-CA	6.30	128.63	120.44
1	Z	1013	ASN	N-CA-CB	-6.30	100.84	110.92
1	Z	1312	GLN	CB-CG-CD	-6.30	101.89	112.60
1	A	1256	PHE	N-CA-C	-6.30	105.08	112.89
1	V	313	ASN	N-CA-C	-6.30	103.11	113.50
2	B	302	MET	CA-C-N	6.30	126.86	120.38
2	B	302	MET	C-N-CA	6.30	126.86	120.38
2	C	367	ASN	OD1-CG-ND2	6.30	128.90	122.60
1	A	54	GLN	CA-C-O	6.29	128.13	121.33
2	C	459	GLY	CA-C-N	6.29	128.62	120.44
2	C	459	GLY	C-N-CA	6.29	128.62	120.44
1	W	545	PRO	N-CA-C	-6.29	100.43	112.01
1	Z	1203	GLY	CA-C-O	-6.29	112.53	121.52
1	Z	147	THR	N-CA-C	-6.29	104.77	112.88
1	A	226	ASN	OD1-CG-ND2	6.29	128.88	122.60
1	V	103	THR	CA-C-N	6.29	129.64	120.71
1	V	103	THR	C-N-CA	6.29	129.64	120.71
1	W	461	SER	CA-C-O	6.29	128.22	121.05
1	A	995	GLY	CA-C-O	-6.28	114.60	120.57
1	A	1359	LEU	N-CA-CB	6.28	120.48	110.11
1	V	744	ASP	N-CA-C	-6.28	98.37	108.55
1	V	59	THR	N-CA-C	-6.28	99.00	109.24
1	A	288	ASN	CA-CB-CG	-6.28	106.32	112.60
1	A	880	THR	N-CA-C	-6.28	98.75	108.42
1	W	989	ASN	O-C-N	6.28	130.75	123.41
1	V	1024	TYR	CB-CG-CD2	-6.28	111.39	120.80
1	A	1095	PRO	CA-C-N	6.27	133.52	121.54
1	A	1095	PRO	C-N-CA	6.27	133.52	121.54
1	W	459	GLU	CB-CG-CD	-6.27	101.94	112.60
1	A	736	THR	CA-C-N	6.27	128.69	120.28
1	A	736	THR	C-N-CA	6.27	128.69	120.28
1	A	984	GLU	O-C-N	-6.27	115.26	123.16
2	C	411	SER	N-CA-CB	6.27	119.34	110.12
1	V	140	PRO	CA-C-O	-6.27	114.05	122.08
1	V	367	THR	N-CA-C	-6.27	105.65	113.55
1	V	772	SER	O-C-N	6.27	126.23	121.65
1	W	735	ASN	CA-C-O	-6.27	114.68	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	539	PHE	N-CA-CB	6.27	121.64	110.80
1	W	563	GLY	CA-C-O	-6.27	115.83	121.47
1	Z	709	PHE	CA-C-O	-6.27	114.30	121.19
1	Z	475	THR	CA-CB-OG1	6.26	119.00	109.60
1	V	839	THR	CA-C-N	6.26	131.22	121.76
1	V	839	THR	C-N-CA	6.26	131.22	121.76
1	V	915	SER	CA-C-O	-6.26	111.58	120.16
2	B	354	LEU	N-CA-C	6.26	118.10	111.28
1	V	313	ASN	OD1-CG-ND2	6.26	128.86	122.60
2	X	226	MET	CA-C-O	-6.26	113.30	120.24
1	A	1129	THR	N-CA-CB	6.25	120.43	111.05
1	V	436	GLU	N-CA-CB	6.25	121.15	110.77
1	V	718	PHE	CA-CB-CG	-6.25	107.55	113.80
1	V	993	GLN	N-CA-CB	6.25	119.31	110.24
2	B	349	LYS	CA-CB-CG	6.25	126.60	114.10
2	B	402	SER	N-CA-CB	6.25	119.31	110.12
1	Z	633	PRO	CA-C-N	6.25	127.65	119.84
1	Z	633	PRO	C-N-CA	6.25	127.65	119.84
1	V	78	SER	CA-C-O	-6.25	113.10	120.60
2	B	243	SER	N-CA-C	-6.25	99.19	108.99
1	W	330	PHE	CA-CB-CG	6.25	120.05	113.80
2	B	233	THR	N-CA-CB	6.24	120.57	110.77
1	W	403	ASN	CA-CB-CG	6.24	118.84	112.60
1	W	1088	LEU	CA-C-N	6.24	132.06	121.14
1	W	1088	LEU	C-N-CA	6.24	132.06	121.14
1	A	1011	GLN	CA-C-O	6.24	127.16	120.55
1	W	1093	THR	N-CA-C	-6.24	105.45	114.12
2	B	463	ALA	CA-C-O	-6.24	113.81	120.42
1	Z	1247	ASN	OD1-CG-ND2	6.24	128.84	122.60
2	X	461	ILE	N-CA-CB	6.23	120.97	110.56
1	Z	503	PHE	CA-CB-CG	-6.23	107.57	113.80
1	A	762	VAL	N-CA-C	-6.23	105.62	111.48
1	W	952	LYS	CA-C-O	-6.23	111.60	120.51
1	V	789	TYR	CB-CG-CD2	-6.23	111.46	120.80
1	V	1264	LEU	CA-C-O	-6.23	113.24	120.34
1	A	638	THR	CA-C-O	-6.23	114.95	121.55
1	A	1342	THR	CA-C-N	6.23	133.44	121.54
1	A	1342	THR	C-N-CA	6.23	133.44	121.54
1	W	633	PRO	CA-C-N	6.23	126.58	119.92
1	W	633	PRO	C-N-CA	6.23	126.58	119.92
1	A	791	LEU	N-CA-C	-6.22	99.44	109.40
1	V	10	ILE	CB-CA-C	6.22	120.27	110.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	208	PHE	CA-C-N	6.22	129.55	120.71
1	W	208	PHE	C-N-CA	6.22	129.55	120.71
1	W	1115	ALA	N-CA-CB	6.22	120.01	110.49
1	Z	861	THR	N-CA-C	-6.22	105.47	114.12
1	A	102	THR	N-CA-C	-6.22	105.59	113.43
1	A	1392	THR	O-C-N	-6.22	115.05	123.14
1	Z	592	SER	N-CA-C	6.21	119.70	111.75
1	Z	834	VAL	CB-CA-C	-6.21	103.44	110.96
2	B	311	TYR	N-CA-C	-6.21	99.28	109.40
2	B	311	TYR	CA-C-N	6.21	129.84	120.77
2	B	311	TYR	C-N-CA	6.21	129.84	120.77
1	A	580	PRO	N-CA-CB	6.21	111.61	103.42
1	V	1289	ILE	CA-C-O	6.21	127.76	121.49
1	A	624	LEU	CA-C-N	6.20	126.64	120.31
1	A	624	LEU	C-N-CA	6.20	126.64	120.31
1	A	1165	ILE	CA-C-N	6.20	128.25	122.85
1	A	1165	ILE	C-N-CA	6.20	128.25	122.85
1	Z	389	GLU	CA-C-N	6.20	131.39	122.77
1	Z	389	GLU	C-N-CA	6.20	131.39	122.77
1	W	48	THR	O-C-N	-6.20	115.68	122.07
1	Z	844	VAL	CA-C-O	-6.20	111.64	119.95
1	A	699	ASN	CA-C-N	6.20	126.17	119.78
1	A	699	ASN	C-N-CA	6.20	126.17	119.78
2	B	246	VAL	CA-C-O	6.20	127.72	120.71
1	V	1178	LEU	O-C-N	6.20	128.46	122.07
1	W	835	ALA	N-CA-C	-6.20	100.18	108.74
1	A	102	THR	CA-C-N	6.20	128.50	120.44
1	A	102	THR	C-N-CA	6.20	128.50	120.44
1	Z	205	PRO	CA-C-O	-6.20	114.56	121.32
1	V	54	GLN	N-CA-C	-6.20	100.06	109.85
1	Z	297	SER	N-CA-C	6.20	119.33	110.10
1	Z	494	GLU	CA-C-N	6.20	133.37	121.54
1	Z	494	GLU	C-N-CA	6.20	133.37	121.54
1	Z	1247	ASN	N-CA-C	-6.20	105.99	112.93
1	V	106	VAL	CA-C-N	6.19	130.36	121.50
1	V	106	VAL	C-N-CA	6.19	130.36	121.50
1	A	855	LYS	N-CA-C	-6.19	99.72	109.50
1	A	7	ALA	CA-C-O	6.19	126.80	120.24
1	V	925	THR	N-CA-CB	6.19	120.95	110.49
1	W	816	THR	CA-C-O	6.19	128.07	121.45
1	V	220	PRO	CA-C-N	6.18	128.85	120.38
1	V	220	PRO	C-N-CA	6.18	128.85	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	X	342	ASN	CA-C-N	6.18	131.05	120.72
2	X	342	ASN	C-N-CA	6.18	131.05	120.72
1	A	861	THR	N-CA-C	-6.18	105.72	113.20
1	A	579	SER	N-CA-CB	6.18	117.08	111.27
1	W	20	ALA	CB-CA-C	-6.18	100.16	108.87
1	A	1109	VAL	N-CA-C	-6.17	100.87	109.45
2	B	205	THR	CA-CB-OG1	6.17	118.86	109.60
1	W	896	THR	N-CA-CB	6.17	120.92	110.49
1	Z	1316	HIS	ND1-CE1-NE2	6.17	114.58	108.40
1	Z	1236	THR	CA-CB-CG2	6.17	120.99	110.50
1	A	314	SER	CA-C-N	6.17	128.46	120.44
1	A	314	SER	C-N-CA	6.17	128.46	120.44
1	V	227	LEU	CA-C-O	6.17	126.78	120.24
1	Z	618	ASN	CA-CB-CG	6.17	118.77	112.60
1	Z	935	ASN	OD1-CG-ND2	-6.16	116.44	122.60
1	V	330	PHE	N-CA-C	-6.16	100.11	108.24
1	V	8	GLY	CA-C-N	6.16	130.17	121.30
1	V	8	GLY	C-N-CA	6.16	130.17	121.30
1	V	282	TRP	N-CA-C	-6.16	98.59	109.06
1	V	551	ASN	CA-CB-CG	6.16	118.76	112.60
2	X	293	TYR	N-CA-C	-6.16	105.08	112.59
1	Z	1087	ASP	CA-C-O	-6.16	113.95	121.89
1	A	652	TYR	CA-C-N	-6.15	115.53	122.48
1	A	652	TYR	C-N-CA	-6.15	115.53	122.48
1	A	1241	VAL	CA-C-N	6.15	126.66	120.14
1	A	1241	VAL	C-N-CA	6.15	126.66	120.14
1	V	553	LEU	CA-C-O	6.15	128.86	121.66
1	V	966	ILE	CA-C-N	6.15	126.17	119.90
1	V	966	ILE	C-N-CA	6.15	126.17	119.90
1	V	1175	PRO	O-C-N	6.15	129.55	123.03
1	Z	1314	ASN	CB-CA-C	6.15	119.02	110.16
1	V	1334	ALA	CA-C-N	6.15	129.62	120.83
1	V	1334	ALA	C-N-CA	6.15	129.62	120.83
1	W	966	ILE	CA-C-N	6.15	126.51	119.93
1	W	966	ILE	C-N-CA	6.15	126.51	119.93
1	Z	1151	ALA	CA-C-N	6.15	131.48	123.00
1	Z	1151	ALA	C-N-CA	6.15	131.48	123.00
1	A	570	SER	CA-C-N	-6.14	116.37	120.24
1	A	570	SER	C-N-CA	-6.14	116.37	120.24
1	V	936	TYR	N-CA-C	-6.14	99.19	108.96
2	X	31	ILE	N-CA-C	-6.14	99.02	107.99
1	Z	883	VAL	CA-C-N	6.14	126.11	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	883	VAL	C-N-CA	6.14	126.11	119.78
1	A	199	PRO	CA-C-N	6.14	133.03	121.97
1	A	199	PRO	C-N-CA	6.14	133.03	121.97
1	A	1260	ALA	N-CA-CB	6.14	119.95	110.80
1	V	808	ASN	OD1-CG-ND2	6.14	128.74	122.60
1	A	1087	ASP	CA-CB-CG	6.14	118.74	112.60
2	X	418	GLN	CA-C-N	6.14	126.79	119.98
2	X	418	GLN	C-N-CA	6.14	126.79	119.98
2	C	403	LEU	CA-C-N	6.14	128.50	120.28
2	C	403	LEU	C-N-CA	6.14	128.50	120.28
1	W	260	PRO	N-CA-C	6.14	120.83	111.19
1	Z	1353	LEU	N-CA-CB	6.14	121.42	110.80
1	V	1135	THR	N-CA-C	-6.13	100.51	110.20
2	B	424	LEU	CA-C-O	-6.13	113.92	120.42
1	W	692	PHE	CA-C-N	6.13	127.09	119.98
1	W	692	PHE	C-N-CA	6.13	127.09	119.98
1	Z	877	VAL	O-C-N	6.13	129.56	123.00
2	B	47	GLN	CA-C-O	6.13	127.30	120.43
1	Z	368	ASN	OD1-CG-ND2	6.13	128.73	122.60
2	X	260	PHE	CA-CB-CG	-6.13	107.67	113.80
1	Z	1365	VAL	N-CA-C	-6.13	99.53	108.11
1	V	484	ASN	CB-CG-ND2	6.12	125.59	116.40
1	V	140	PRO	CB-CA-C	-6.12	102.93	110.95
2	C	297	TYR	CA-CB-CG	-6.12	102.89	113.90
1	V	645	ASN	CA-CB-CG	6.12	118.72	112.60
1	Z	880	THR	CA-C-O	-6.12	114.89	121.38
1	A	900	TYR	N-CA-C	-6.12	97.77	110.80
1	A	1346	ASN	OD1-CG-ND2	-6.12	116.48	122.60
2	C	155	SER	CA-C-N	6.12	132.31	122.40
2	C	155	SER	C-N-CA	6.12	132.31	122.40
1	V	588	VAL	CA-C-N	6.11	127.48	119.84
1	V	588	VAL	C-N-CA	6.11	127.48	119.84
1	V	617	ASN	CA-C-N	6.11	131.43	122.63
1	V	617	ASN	C-N-CA	6.11	131.43	122.63
1	Z	1170	THR	O-C-N	6.11	130.73	123.27
1	V	614	ASP	CA-CB-CG	6.11	118.71	112.60
1	V	1143	VAL	N-CA-C	-6.11	107.33	113.20
2	B	284	LYS	CB-CA-C	-6.11	101.39	110.67
1	A	1284	GLN	CB-CG-CD	6.11	122.98	112.60
1	Z	907	TYR	N-CA-CB	6.11	120.94	110.68
1	A	999	THR	N-CA-C	-6.11	103.36	111.24
1	V	48	THR	CA-CB-CG2	6.10	120.88	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	1316	HIS	CE1-NE2-CD2	-6.10	102.90	109.00
1	A	243	ARG	NH1-CZ-NH2	6.10	127.23	119.30
1	A	758	ASN	CA-CB-CG	6.10	118.70	112.60
2	C	154	THR	CA-C-N	6.10	128.45	120.28
2	C	154	THR	C-N-CA	6.10	128.45	120.28
2	X	78	GLN	CA-C-N	6.10	129.37	120.71
2	X	78	GLN	C-N-CA	6.10	129.37	120.71
1	Z	1074	ALA	N-CA-CB	6.09	119.09	109.71
1	Z	1316	HIS	CG-CD2-NE2	6.09	113.29	107.20
1	A	1393	LEU	CA-C-N	6.09	131.41	122.39
1	A	1393	LEU	C-N-CA	6.09	131.41	122.39
1	Z	1095	PRO	CA-C-N	6.09	133.18	121.54
1	Z	1095	PRO	C-N-CA	6.09	133.18	121.54
1	W	473	LYS	N-CA-C	-6.09	98.59	108.52
2	X	334	LEU	CB-CA-C	-6.09	100.32	110.19
1	V	1016	ILE	N-CA-CB	6.09	119.60	112.35
2	B	264	ARG	NE-CZ-NH1	6.09	127.59	121.50
2	X	119	SER	CB-CA-C	-6.09	103.39	112.09
1	W	1022	HIS	ND1-CE1-NE2	6.09	114.49	108.40
1	W	147	THR	N-CA-C	-6.08	105.15	114.16
1	A	120	LEU	N-CA-C	-6.08	105.15	113.30
1	A	1111	LEU	CA-C-N	6.08	126.81	121.58
1	A	1111	LEU	C-N-CA	6.08	126.81	121.58
2	C	411	SER	CA-C-N	6.08	128.35	120.44
2	C	411	SER	C-N-CA	6.08	128.35	120.44
1	Z	1150	LEU	N-CA-C	-6.08	105.81	113.72
1	V	333	ASN	CA-C-N	6.08	131.87	122.20
1	V	333	ASN	C-N-CA	6.08	131.87	122.20
1	W	892	PHE	CA-C-O	-6.08	113.71	119.91
1	A	244	ALA	N-CA-C	-6.08	99.30	108.96
1	V	941	VAL	CA-C-O	-6.08	114.13	120.27
1	Z	35	ILE	N-CA-C	-6.08	99.50	108.85
1	Z	1059	TYR	N-CA-C	-6.08	98.52	109.09
1	A	867	HIS	CA-CB-CG	-6.07	107.73	113.80
2	X	41	THR	N-CA-C	-6.07	100.39	110.17
1	A	56	ASN	OD1-CG-ND2	6.07	128.67	122.60
1	A	533	SER	CA-C-N	6.07	129.92	120.75
1	A	533	SER	C-N-CA	6.07	129.92	120.75
1	A	876	LYS	N-CA-C	-6.07	101.22	110.14
1	W	786	GLY	CA-C-N	6.07	129.02	120.28
1	W	786	GLY	C-N-CA	6.07	129.02	120.28
1	Z	876	LYS	N-CA-C	-6.07	100.26	109.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	1218	SER	CA-CB-OG	6.07	123.24	111.10
1	W	485	LEU	N-CA-CB	6.07	121.46	111.08
2	B	150	LEU	CA-C-O	-6.07	113.97	120.46
1	Z	1006	ASN	N-CA-CB	6.07	120.74	110.49
1	W	1206	GLY	N-CA-C	6.06	120.23	112.83
2	X	223	ILE	O-C-N	-6.06	116.77	123.20
1	V	1182	SER	N-CA-C	-6.06	100.31	109.95
1	W	1247	ASN	N-CA-C	-6.06	99.18	108.76
2	B	463	ALA	CA-C-N	6.06	129.03	120.42
2	B	463	ALA	C-N-CA	6.06	129.03	120.42
1	V	411	VAL	N-CA-CB	6.06	118.44	111.90
1	Z	324	ILE	CA-C-O	6.06	126.69	120.39
1	Z	877	VAL	N-CA-C	-6.06	98.98	108.86
1	V	549	MET	N-CA-C	-6.06	98.74	108.55
2	C	353	SER	N-CA-CB	6.06	119.02	110.12
1	V	52	ASN	CA-CB-CG	6.06	118.66	112.60
1	A	47	SER	N-CA-CB	6.05	119.11	110.16
1	A	846	ASN	N-CA-C	6.05	117.88	111.28
2	B	73	TYR	O-C-N	-6.05	115.80	123.24
1	W	124	GLN	CA-C-N	6.05	126.55	120.14
1	W	124	GLN	C-N-CA	6.05	126.55	120.14
1	W	380	SER	CA-C-O	6.05	126.43	119.35
1	W	3	PRO	CA-C-N	6.05	127.40	119.84
1	W	3	PRO	C-N-CA	6.05	127.40	119.84
1	Z	348	ASN	CA-CB-CG	6.05	118.65	112.60
2	B	415	ASN	CA-C-N	6.05	128.38	120.28
2	B	415	ASN	C-N-CA	6.05	128.38	120.28
2	C	385	ARG	CA-C-O	-6.05	114.01	120.42
1	A	896	THR	N-CA-C	-6.04	105.20	113.30
1	V	1065	ILE	N-CA-C	-6.04	107.97	113.71
1	Z	980	LEU	CA-C-N	6.04	130.77	121.71
1	Z	980	LEU	C-N-CA	6.04	130.77	121.71
1	A	1019	VAL	O-C-N	-6.04	116.48	122.76
1	A	1316	HIS	CE1-NE2-CD2	-6.04	102.96	109.00
1	V	382	LYS	CA-C-O	6.04	127.75	120.99
2	X	421	ILE	O-C-N	-6.04	114.98	121.80
1	A	168	THR	N-CA-C	-6.04	105.50	112.92
1	A	760	MET	CA-C-N	6.04	126.39	119.93
1	A	760	MET	C-N-CA	6.04	126.39	119.93
1	W	1246	GLU	CA-C-N	6.04	133.22	121.63
1	W	1246	GLU	C-N-CA	6.04	133.22	121.63
1	Z	361	VAL	CA-CB-CG1	6.04	120.66	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	571	VAL	N-CA-C	6.03	121.36	112.61
2	X	163	THR	O-C-N	6.03	131.00	123.28
1	A	1062	THR	CA-C-N	6.03	126.67	119.98
1	A	1062	THR	C-N-CA	6.03	126.67	119.98
1	V	10	ILE	CA-CB-CG1	6.03	120.65	110.40
1	V	343	VAL	CA-C-N	-6.03	115.03	122.93
1	V	343	VAL	C-N-CA	-6.03	115.03	122.93
1	Z	685	ASN	OD1-CG-ND2	6.03	128.63	122.60
1	A	688	GLY	N-CA-C	6.03	119.89	110.91
1	Z	1062	THR	N-CA-C	-6.03	97.96	110.80
1	A	219	ASN	CA-CB-CG	-6.03	106.57	112.60
1	W	817	TYR	N-CA-C	-6.03	103.56	113.50
1	V	392	GLY	CA-C-N	6.02	126.03	119.89
1	V	392	GLY	C-N-CA	6.02	126.03	119.89
1	W	1303	ILE	N-CA-CB	6.02	119.45	112.40
2	X	359	THR	N-CA-CB	6.02	119.08	110.16
2	C	366	ASN	N-CA-C	6.02	117.92	111.36
1	W	471	GLN	OE1-CD-NE2	-6.02	116.58	122.60
2	C	174	PHE	CB-CA-C	-6.02	99.11	109.65
1	W	935	ASN	CA-CB-CG	-6.01	106.59	112.60
1	Z	1336	PRO	CA-C-N	6.01	133.02	121.54
1	Z	1336	PRO	C-N-CA	6.01	133.02	121.54
1	V	523	TYR	N-CA-CB	6.01	120.23	110.32
1	Z	1037	VAL	CA-C-N	6.01	132.45	122.54
1	Z	1037	VAL	C-N-CA	6.01	132.45	122.54
1	W	1026	THR	N-CA-C	-6.01	105.91	113.72
1	A	311	ILE	N-CA-C	-6.01	99.82	108.53
1	W	1087	ASP	N-CA-C	-6.01	103.23	110.44
2	B	406	THR	N-CA-C	6.00	117.82	111.28
1	V	92	PHE	O-C-N	6.00	130.20	123.48
1	V	864	ALA	N-CA-C	6.00	118.61	111.71
1	V	1256	PHE	CA-CB-CG	-6.00	107.80	113.80
1	Z	291	THR	O-C-N	6.00	129.39	122.25
1	V	347	THR	CA-C-N	6.00	130.40	122.30
1	V	347	THR	C-N-CA	6.00	130.40	122.30
1	W	1363	LYS	CG-CD-CE	6.00	125.10	111.30
2	X	104	TYR	O-C-N	-6.00	116.18	122.96
1	A	897	THR	CA-C-N	6.00	125.96	119.78
1	A	897	THR	C-N-CA	6.00	125.96	119.78
1	W	62	ALA	N-CA-C	-6.00	104.67	112.23
1	A	507	ILE	N-CA-C	-5.99	99.72	108.11
1	V	277	MET	O-C-N	5.99	130.81	123.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	561	PRO	CA-C-O	-5.99	114.98	121.27
1	Z	1109	VAL	CA-C-O	5.99	126.19	120.31
1	A	526	GLY	N-CA-C	-5.99	100.97	111.46
1	V	4	PRO	CA-C-O	-5.99	114.82	121.23
1	W	650	ASN	N-CA-C	-5.99	104.82	113.21
1	Z	1238	THR	N-CA-C	-5.99	97.83	108.13
1	A	201	ILE	N-CA-C	-5.99	96.89	109.34
2	B	451	GLY	CA-C-N	5.98	126.46	119.94
2	B	451	GLY	C-N-CA	5.98	126.46	119.94
1	A	946	GLN	CA-C-N	5.98	130.99	121.66
1	A	946	GLN	C-N-CA	5.98	130.99	121.66
1	V	870	TYR	CA-C-N	5.98	128.78	120.29
1	V	870	TYR	C-N-CA	5.98	128.78	120.29
1	W	1080	GLN	N-CA-CB	5.98	121.01	110.37
1	A	197	THR	CA-C-O	-5.98	114.67	121.72
1	V	752	TYR	CB-CG-CD2	-5.98	111.83	120.80
1	Z	403	ASN	N-CA-CB	5.98	120.23	110.37
1	Z	964	VAL	N-CA-CB	5.98	117.85	111.46
1	V	1118	TYR	CA-C-N	5.97	131.82	122.26
1	V	1118	TYR	C-N-CA	5.97	131.82	122.26
1	W	456	PRO	O-C-N	5.97	128.51	121.46
1	Z	25	LEU	O-C-N	-5.97	116.37	123.06
1	W	1342	THR	CA-CB-CG2	-5.97	100.35	110.50
1	V	1013	ASN	N-CA-CB	5.97	119.28	110.56
1	A	1371	VAL	CB-CA-C	5.97	115.92	110.13
1	A	230	LEU	CA-C-N	5.97	133.07	122.45
1	A	230	LEU	C-N-CA	5.97	133.07	122.45
1	V	378	THR	O-C-N	5.97	129.62	122.94
2	C	180	PRO	N-CA-CB	5.96	108.86	103.19
1	W	1082	PHE	CA-C-N	5.96	129.76	120.75
1	W	1082	PHE	C-N-CA	5.96	129.76	120.75
1	Z	280	LEU	CA-C-O	-5.96	114.23	120.55
1	Z	458	SER	CA-C-N	5.96	132.93	121.54
1	Z	458	SER	C-N-CA	5.96	132.93	121.54
1	A	1022	HIS	CA-CB-CG	5.96	119.76	113.80
1	A	1109	VAL	CA-C-N	5.96	129.16	122.42
1	A	1109	VAL	C-N-CA	5.96	129.16	122.42
1	Z	300	PHE	CA-C-O	5.96	127.87	120.54
1	A	987	ALA	N-CA-CB	5.96	118.75	110.17
2	B	462	VAL	N-CA-C	5.96	116.70	110.62
1	V	59	THR	CB-CA-C	5.96	119.58	109.75
1	V	858	TYR	CA-C-N	5.96	129.29	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	858	TYR	C-N-CA	5.96	129.29	120.95
1	V	1354	GLN	N-CA-C	-5.96	97.42	108.02
1	W	936	TYR	N-CA-C	-5.96	98.93	109.06
2	X	361	LEU	O-C-N	5.96	128.43	122.12
1	V	939	PHE	CA-C-O	-5.95	114.68	121.65
1	Z	1057	THR	CA-CB-OG1	5.95	118.53	109.60
1	V	285	SER	CA-C-N	5.95	130.52	120.64
1	V	285	SER	C-N-CA	5.95	130.52	120.64
1	W	216	GLY	CA-C-N	5.95	132.91	121.54
1	W	216	GLY	C-N-CA	5.95	132.91	121.54
1	A	392	GLY	CA-C-N	5.95	126.29	119.92
1	A	392	GLY	C-N-CA	5.95	126.29	119.92
1	V	1174	ILE	CA-C-O	-5.95	114.73	119.25
2	C	395	SER	O-C-N	5.95	128.20	122.07
1	V	911	PRO	N-CA-C	5.95	121.57	113.84
1	W	714	ALA	O-C-N	5.95	130.80	122.77
2	C	123	GLN	CA-C-O	-5.95	114.59	121.49
2	B	381	SER	N-CA-CB	5.95	118.63	110.01
2	X	456	GLY	O-C-N	-5.95	116.48	122.19
1	Z	112	TYR	CA-CB-CG	-5.95	103.20	113.90
1	W	1239	THR	CA-CB-OG1	5.94	118.51	109.60
2	B	473	LYS	N-CA-CB	5.94	119.45	110.30
2	X	248	GLN	CB-CG-CD	-5.94	102.50	112.60
1	A	597	VAL	N-CA-C	-5.94	107.47	113.47
1	A	1329	TYR	CA-C-N	5.94	131.50	122.95
1	A	1329	TYR	C-N-CA	5.94	131.50	122.95
1	A	452	ILE	CA-C-N	5.94	129.30	120.87
1	A	452	ILE	C-N-CA	5.94	129.30	120.87
1	W	1352	GLN	CB-CA-C	-5.93	100.07	109.80
1	Z	1122	THR	CA-C-O	-5.93	114.77	121.00
1	A	1106	ILE	O-C-N	-5.93	116.92	123.03
1	W	195	GLY	CA-C-O	-5.93	115.82	121.87
1	W	550	ASN	OD1-CG-ND2	5.93	128.53	122.60
1	Z	311	ILE	N-CA-C	-5.93	97.29	106.72
1	Z	552	ASN	CA-CB-CG	-5.93	106.67	112.60
2	B	453	ILE	N-CA-C	5.93	116.67	110.62
2	X	360	ASN	OD1-CG-ND2	5.93	128.53	122.60
1	Z	86	SER	CB-CA-C	-5.93	99.85	110.70
1	Z	1254	ALA	N-CA-C	-5.93	99.91	109.58
2	C	51	SER	N-CA-C	-5.93	98.42	108.26
1	W	1066	THR	N-CA-C	-5.93	100.13	109.50
2	X	416	ALA	CB-CA-C	-5.93	100.77	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	177	GLY	O-C-N	5.93	129.10	123.65
2	C	454	ILE	CA-C-O	-5.93	114.79	120.95
1	V	396	THR	CA-C-O	-5.93	114.18	120.40
1	V	1089	GLN	OE1-CD-NE2	5.93	128.53	122.60
2	X	148	VAL	CA-C-O	-5.93	114.08	120.36
1	Z	1295	LEU	O-C-N	5.93	128.13	121.32
1	A	577	GLY	CA-C-O	-5.92	116.08	121.47
1	Z	179	VAL	N-CA-CB	5.92	118.73	110.56
1	V	1114	LYS	CA-C-N	5.92	133.12	122.64
1	V	1114	LYS	C-N-CA	5.92	133.12	122.64
1	Z	1360	PRO	N-CA-C	-5.92	100.27	112.47
1	A	1220	ILE	CA-C-O	5.92	125.49	120.22
1	W	123	ALA	O-C-N	5.92	129.32	123.46
1	V	1317	THR	N-CA-CB	5.92	118.89	110.67
1	A	1106	ILE	N-CA-CB	5.92	120.74	111.99
1	A	44	ASN	N-CA-C	5.91	118.23	111.02
1	W	1305	ALA	CA-C-N	5.91	131.69	121.64
1	W	1305	ALA	C-N-CA	5.91	131.69	121.64
1	A	226	ASN	CA-CB-CG	-5.91	106.69	112.60
1	A	427	GLN	OE1-CD-NE2	-5.91	116.69	122.60
1	V	1061	TYR	CA-C-O	5.91	126.81	120.55
1	Z	1196	ASN	CB-CG-OD1	-5.91	108.98	120.80
2	B	357	ASN	N-CA-C	5.91	118.20	111.11
1	Z	600	GLY	N-CA-C	-5.91	99.18	113.18
2	X	378	SER	CA-CB-OG	5.90	122.91	111.10
1	Z	1102	SER	CA-C-N	5.90	130.62	122.77
1	Z	1102	SER	C-N-CA	5.90	130.62	122.77
2	X	180	PRO	CA-C-N	5.90	130.47	120.91
2	X	180	PRO	C-N-CA	5.90	130.47	120.91
1	W	379	SER	N-CA-C	-5.90	105.66	112.92
1	Z	1174	ILE	CB-CA-C	-5.90	103.97	110.52
1	W	1037	VAL	N-CA-C	-5.90	101.19	109.21
1	V	1290	TYR	CA-C-N	5.90	129.00	122.22
1	V	1290	TYR	C-N-CA	5.90	129.00	122.22
2	X	265	VAL	CA-C-N	5.90	132.27	122.54
2	X	265	VAL	C-N-CA	5.90	132.27	122.54
1	Z	1172	VAL	N-CA-C	-5.90	99.92	108.17
1	W	804	MET	CA-CB-CG	-5.90	102.31	114.10
1	A	1136	VAL	CA-CB-CG1	5.89	120.42	110.40
1	Z	770	VAL	N-CA-C	-5.89	99.25	108.86
1	V	1360	PRO	CA-C-O	-5.89	114.59	121.95
1	Z	1021	TYR	N-CA-C	-5.89	100.10	109.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	824	VAL	N-CA-C	-5.89	99.05	107.77
1	V	175	GLN	OE1-CD-NE2	-5.89	116.71	122.60
1	V	1372	PRO	CA-C-O	-5.89	114.62	121.34
1	A	501	TYR	CA-C-N	5.89	132.40	121.62
1	A	501	TYR	C-N-CA	5.89	132.40	121.62
1	A	777	SER	N-CA-CB	5.89	121.80	111.55
2	B	169	GLN	CA-C-N	5.89	129.62	121.26
2	B	169	GLN	C-N-CA	5.89	129.62	121.26
1	V	571	VAL	N-CA-CB	-5.89	105.86	110.45
1	W	687	THR	CA-C-N	5.89	127.41	121.35
1	W	687	THR	C-N-CA	5.89	127.41	121.35
1	A	368	ASN	O-C-N	5.88	129.31	122.25
1	W	133	VAL	CA-C-N	5.88	128.65	120.29
1	W	133	VAL	C-N-CA	5.88	128.65	120.29
1	A	594	ILE	N-CA-C	5.88	116.06	110.42
2	C	177	LEU	CA-C-O	5.88	127.78	121.55
2	C	401	SER	CA-C-N	5.88	128.16	120.28
2	C	401	SER	C-N-CA	5.88	128.16	120.28
1	V	835	ALA	CA-C-N	5.88	132.77	121.54
1	V	835	ALA	C-N-CA	5.88	132.77	121.54
1	A	939	PHE	N-CA-CB	5.88	120.42	110.49
1	A	576	THR	CA-CB-OG1	5.87	118.41	109.60
2	B	313	PHE	CA-CB-CG	5.87	119.67	113.80
1	V	1063	GLY	O-C-N	5.87	128.68	122.28
1	A	1262	VAL	CA-C-N	5.87	125.81	119.76
1	A	1262	VAL	C-N-CA	5.87	125.81	119.76
1	V	723	GLN	CA-C-N	5.87	129.62	120.75
1	V	723	GLN	C-N-CA	5.87	129.62	120.75
1	V	58	LYS	N-CA-C	-5.87	99.44	109.24
1	W	731	ALA	CA-C-N	5.87	129.17	120.95
1	W	731	ALA	C-N-CA	5.87	129.17	120.95
1	Z	703	VAL	N-CA-C	-5.87	99.97	108.71
1	A	1231	SER	CA-C-N	5.87	132.68	122.82
1	A	1231	SER	C-N-CA	5.87	132.68	122.82
1	A	163	TYR	N-CA-C	5.87	117.36	110.97
1	Z	906	LEU	CA-C-N	-5.87	114.72	122.99
1	Z	906	LEU	C-N-CA	-5.87	114.72	122.99
1	Z	176	GLU	N-CA-C	-5.86	100.39	109.24
1	Z	1208	PHE	N-CA-CB	5.86	119.96	110.40
2	C	418	GLN	N-CA-C	5.86	118.62	111.82
1	W	185	SER	O-C-N	5.86	130.22	122.95
1	W	530	ASN	CA-CB-CG	5.86	118.46	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	1354	GLN	O-C-N	-5.86	116.54	123.22
2	X	368	LEU	CA-C-N	5.86	128.06	120.44
2	X	368	LEU	C-N-CA	5.86	128.06	120.44
1	A	523	TYR	CB-CA-C	-5.86	103.75	111.42
2	C	385	ARG	CD-NE-CZ	-5.86	116.20	124.40
1	W	571	VAL	N-CA-CB	5.86	119.41	111.21
1	Z	7	ALA	CA-C-N	5.86	132.50	123.31
1	Z	7	ALA	C-N-CA	5.86	132.50	123.31
1	Z	1007	LEU	CA-C-N	5.85	129.43	120.82
1	Z	1007	LEU	C-N-CA	5.85	129.43	120.82
2	X	432	SER	N-CA-C	-5.85	104.90	111.28
2	X	472	ARG	N-CA-C	-5.85	104.49	111.69
1	V	1125	GLN	CB-CG-CD	5.85	122.55	112.60
1	W	84	TYR	CA-CB-CG	5.85	124.43	113.90
1	V	942	SER	CA-C-O	5.85	129.27	121.78
1	V	1005	LEU	N-CA-C	5.85	120.03	113.01
1	W	872	THR	CA-C-N	5.85	130.38	120.91
1	W	872	THR	C-N-CA	5.85	130.38	120.91
1	A	76	PRO	CB-CA-C	-5.84	103.75	111.23
1	V	329	ASN	CA-C-O	-5.84	115.06	121.31
1	V	109	PRO	CA-C-N	5.84	128.11	120.28
1	V	109	PRO	C-N-CA	5.84	128.11	120.28
1	W	455	THR	CA-C-N	5.84	126.39	120.38
1	W	455	THR	C-N-CA	5.84	126.39	120.38
2	X	380	SER	N-CA-CB	5.84	118.48	110.01
1	A	257	GLY	N-CA-C	-5.84	99.34	113.18
1	A	758	ASN	OD1-CG-ND2	-5.84	116.76	122.60
1	A	1201	SER	O-C-N	5.84	130.11	122.93
1	V	1013	ASN	N-CA-C	-5.84	105.74	112.92
2	X	467	ILE	N-CA-CB	5.84	118.48	110.54
1	V	1005	LEU	O-C-N	-5.83	114.41	122.46
1	V	891	TYR	CA-C-O	5.83	127.00	120.94
1	W	139	THR	N-CA-CB	5.83	117.87	110.23
1	Z	237	HIS	ND1-CE1-NE2	5.83	114.23	108.40
1	Z	646	PHE	CA-CB-CG	-5.83	107.97	113.80
1	A	1360	PRO	CA-C-O	-5.83	114.75	121.86
1	A	977	PHE	CA-C-O	-5.82	113.65	120.87
2	B	244	ILE	CA-CB-CG1	5.82	120.30	110.40
1	V	3	PRO	N-CD-CG	5.82	110.79	103.80
1	V	337	PHE	CA-CB-CG	-5.82	107.98	113.80
2	X	346	LEU	CA-C-N	5.82	128.40	120.77
2	X	346	LEU	C-N-CA	5.82	128.40	120.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	X	422	SER	CA-C-N	5.82	128.01	120.44
2	X	422	SER	C-N-CA	5.82	128.01	120.44
1	Z	452	ILE	CA-C-N	5.82	129.83	121.50
1	Z	452	ILE	C-N-CA	5.82	129.83	121.50
1	A	1145	PRO	CA-C-O	-5.82	114.67	121.95
2	X	364	THR	CA-C-N	5.82	129.85	120.30
2	X	364	THR	C-N-CA	5.82	129.85	120.30
2	X	131	ILE	CA-C-N	5.82	131.95	122.81
2	X	131	ILE	C-N-CA	5.82	131.95	122.81
1	Z	36	GLN	OE1-CD-NE2	5.82	128.42	122.60
1	A	710	ASN	CA-CB-CG	-5.82	106.78	112.60
1	A	738	TYR	CA-C-O	-5.82	111.49	119.05
2	B	105	THR	CA-C-N	5.82	129.75	122.48
2	B	105	THR	C-N-CA	5.82	129.75	122.48
1	V	179	VAL	N-CA-C	-5.82	99.38	108.86
1	W	608	VAL	CB-CA-C	-5.82	103.78	110.41
2	B	209	ASN	CA-CB-CG	-5.82	106.78	112.60
1	W	652	TYR	N-CA-CB	5.82	120.57	111.56
1	A	677	LEU	O-C-N	-5.81	117.41	121.65
2	B	390	GLN	N-CA-C	5.81	117.61	111.28
1	V	1346	ASN	N-CA-C	-5.81	99.71	109.07
1	W	160	LEU	CA-C-N	5.81	128.07	120.28
1	W	160	LEU	C-N-CA	5.81	128.07	120.28
1	A	926	ASN	CA-C-O	5.81	126.44	119.59
1	A	927	GLY	N-CA-C	-5.81	107.08	115.27
1	Z	566	LEU	CB-CA-C	-5.81	103.80	111.82
1	W	199	PRO	CA-C-N	5.81	132.43	121.97
1	W	199	PRO	C-N-CA	5.81	132.43	121.97
1	W	1295	LEU	CA-C-O	-5.81	112.91	121.27
1	W	1165	ILE	N-CA-C	-5.81	99.38	107.80
1	A	863	TYR	CA-C-N	5.80	133.06	122.50
1	A	863	TYR	C-N-CA	5.80	133.06	122.50
1	A	915	SER	CA-C-N	5.80	125.82	119.90
1	A	915	SER	C-N-CA	5.80	125.82	119.90
1	V	548	VAL	CA-C-O	5.80	127.34	120.72
1	W	430	LEU	N-CA-C	-5.80	100.82	110.17
1	W	1055	LEU	N-CA-CB	5.80	120.30	110.49
1	A	1278	ILE	CA-C-O	-5.80	115.58	121.67
2	B	27	THR	CA-CB-CG2	5.80	120.36	110.50
1	W	196	SER	N-CA-C	-5.80	99.15	108.55
1	A	1261	GLN	OE1-CD-NE2	5.80	128.40	122.60
1	W	1166	VAL	CA-C-N	5.80	125.75	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	1166	VAL	C-N-CA	5.80	125.75	119.78
1	Z	769	ILE	N-CA-C	-5.80	99.82	108.46
1	V	1083	MET	CG-SD-CE	-5.80	88.14	100.90
1	W	288	ASN	OD1-CG-ND2	-5.80	116.80	122.60
2	X	376	ASN	N-CA-CB	5.80	118.64	110.12
2	B	394	ALA	CA-C-N	5.79	127.97	120.44
2	B	394	ALA	C-N-CA	5.79	127.97	120.44
1	W	496	ILE	CA-C-O	-5.79	113.57	119.89
1	W	760	MET	CG-SD-CE	-5.79	88.16	100.90
2	X	37	VAL	CA-C-N	5.79	127.08	119.84
2	X	37	VAL	C-N-CA	5.79	127.08	119.84
2	B	167	ASN	CA-CB-CG	5.79	118.39	112.60
2	X	80	ASN	CA-C-O	-5.79	115.11	121.89
1	Z	1130	ASN	CA-CB-CG	-5.79	106.81	112.60
1	V	75	PHE	CA-CB-CG	-5.79	108.01	113.80
1	V	1126	THR	CA-CB-OG1	-5.79	100.92	109.60
1	W	1166	VAL	CA-C-O	-5.79	115.43	119.19
2	X	421	ILE	CA-C-O	5.79	126.72	120.47
1	V	568	ALA	CA-C-O	-5.79	114.42	120.09
1	A	568	ALA	CA-C-N	5.79	126.54	120.12
1	A	568	ALA	C-N-CA	5.79	126.54	120.12
1	W	991	THR	CA-CB-OG1	5.79	118.28	109.60
1	Z	18	SER	N-CA-CB	5.79	119.20	109.94
1	Z	570	SER	CA-C-O	5.79	127.68	121.55
1	W	950	PHE	N-CA-CB	5.78	120.43	111.24
1	Z	584	GLU	CA-C-O	5.78	126.37	120.24
1	A	222	GLN	N-CA-C	-5.78	97.76	107.99
2	C	57	ASN	CA-CB-CG	-5.78	106.82	112.60
1	V	655	VAL	N-CA-CB	5.78	117.59	111.00
1	W	608	VAL	N-CA-CB	5.78	119.86	112.34
1	A	1314	ASN	N-CA-C	-5.78	99.10	108.41
1	W	440	VAL	N-CA-C	-5.78	100.26	108.58
2	X	38	PRO	CA-C-N	5.78	132.58	121.54
2	X	38	PRO	C-N-CA	5.78	132.58	121.54
1	A	567	LEU	N-CA-CB	5.78	119.64	110.57
1	A	283	ILE	N-CA-C	-5.78	99.73	108.17
1	A	1094	ASN	CA-C-O	-5.78	115.40	120.60
1	W	97	PHE	N-CA-CB	5.78	118.91	110.47
1	W	444	GLN	N-CA-CB	-5.77	103.88	110.35
1	A	53	ILE	CA-C-N	-5.77	111.77	121.75
1	A	53	ILE	C-N-CA	-5.77	111.77	121.75
1	A	535	TYR	CA-C-O	5.77	127.44	120.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1005	LEU	N-CA-C	-5.77	106.08	113.23
1	Z	916	PRO	CA-C-N	5.77	128.68	120.49
1	Z	916	PRO	C-N-CA	5.77	128.68	120.49
1	V	716	THR	N-CA-CB	5.77	120.50	111.56
1	V	1152	ALA	CB-CA-C	-5.77	101.91	110.67
1	W	783	SER	CA-C-N	5.77	129.43	120.60
1	W	783	SER	C-N-CA	5.77	129.43	120.60
1	Z	617	ASN	CA-CB-CG	-5.77	106.83	112.60
1	Z	746	ASN	CA-C-O	-5.77	114.33	119.75
1	W	131	ALA	N-CA-C	-5.77	100.65	109.65
1	W	449	SER	O-C-N	5.77	129.85	122.93
1	V	928	THR	CA-C-N	5.76	131.71	122.32
1	V	928	THR	C-N-CA	5.76	131.71	122.32
1	V	1385	GLN	N-CA-C	-5.76	99.94	108.99
1	A	172	THR	CA-C-O	5.76	126.09	119.35
1	A	1146	THR	O-C-N	-5.76	116.30	123.04
2	X	214	ILE	N-CA-C	-5.76	99.25	107.77
2	X	311	TYR	N-CA-CB	5.76	121.44	111.13
1	Z	640	PRO	O-C-N	5.76	130.41	122.64
1	A	404	TRP	CB-CA-C	-5.76	100.85	110.29
1	Z	333	ASN	N-CA-C	5.76	120.12	113.38
1	Z	983	GLN	CB-CG-CD	5.76	122.39	112.60
1	V	122	THR	N-CA-C	-5.76	105.59	113.30
1	V	319	ALA	CA-C-O	5.76	126.09	119.35
1	A	1304	GLN	N-CA-CB	5.75	119.04	109.60
1	A	616	VAL	N-CA-C	-5.75	106.69	113.42
2	X	180	PRO	N-CA-C	5.75	120.27	110.95
1	V	991	THR	N-CA-C	-5.75	98.55	110.80
1	A	1276	GLY	CA-C-O	5.75	127.44	121.23
2	C	40	GLN	N-CA-CB	5.75	121.54	111.13
2	B	312	VAL	CA-C-N	-5.75	113.42	122.73
2	B	312	VAL	C-N-CA	-5.75	113.42	122.73
1	W	112	TYR	N-CA-CB	5.75	119.22	110.42
1	V	550	ASN	CA-C-O	5.75	124.75	119.00
1	V	173	ASN	OD1-CG-ND2	-5.74	116.86	122.60
1	Z	521	MET	N-CA-CB	5.74	119.50	110.71
1	V	1185	VAL	N-CA-C	-5.74	100.07	108.11
1	Z	537	LEU	N-CA-C	-5.74	100.82	109.95
2	B	423	SER	O-C-N	-5.74	116.03	122.12
2	B	27	THR	CA-C-N	5.74	129.66	122.43
2	B	27	THR	C-N-CA	5.74	129.66	122.43
1	Z	50	VAL	N-CA-C	5.74	120.08	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	813	ILE	N-CA-C	-5.74	100.22	108.42
1	A	1280	ILE	CA-C-N	5.74	128.63	120.49
1	A	1280	ILE	C-N-CA	5.74	128.63	120.49
1	W	866	LEU	O-C-N	5.74	128.76	122.11
1	W	1085	TYR	O-C-N	5.74	129.92	122.87
2	B	365	VAL	CA-CB-CG1	5.73	120.15	110.40
2	C	198	SER	CA-C-O	-5.73	115.14	121.33
2	X	401	SER	CA-C-N	5.73	127.89	120.44
2	X	401	SER	C-N-CA	5.73	127.89	120.44
1	V	1352	GLN	N-CA-C	5.73	118.08	108.96
1	V	152	GLN	N-CA-C	5.73	117.69	110.24
1	V	456	PRO	CA-C-N	5.73	127.00	119.84
1	V	456	PRO	C-N-CA	5.73	127.00	119.84
2	B	430	ASN	CA-CB-CG	5.73	118.33	112.60
1	V	1071	TRP	CA-C-N	5.72	130.99	122.86
1	V	1071	TRP	C-N-CA	5.72	130.99	122.86
1	Z	638	THR	N-CA-C	-5.72	100.61	109.14
1	V	174	MET	CA-C-O	-5.72	115.33	122.03
1	W	68	THR	N-CA-CB	5.72	119.25	110.61
1	W	642	ASN	CB-CG-ND2	5.72	124.98	116.40
1	Z	11	GLN	N-CA-C	-5.72	98.94	108.32
1	Z	82	ALA	N-CA-CB	5.72	122.16	111.52
2	B	47	GLN	O-C-N	-5.72	116.55	123.13
1	W	1130	ASN	CA-C-O	-5.72	114.44	121.88
1	W	713	ALA	N-CA-C	5.72	118.52	110.23
2	X	166	THR	CA-CB-OG1	5.72	118.18	109.60
1	A	256	SER	CA-C-O	5.72	127.23	120.66
2	X	167	ASN	CA-CB-CG	5.72	118.32	112.60
2	X	276	TYR	CB-CG-CD2	5.72	129.37	120.80
1	Z	748	THR	N-CA-C	-5.72	104.71	112.26
1	Z	1315	VAL	O-C-N	5.72	129.72	122.57
1	A	881	VAL	N-CA-C	-5.71	100.25	108.42
1	A	479	ALA	N-CA-CB	5.71	120.14	110.49
2	C	410	LEU	CB-CA-C	-5.71	101.14	110.85
1	V	920	TYR	CA-C-O	-5.71	114.95	121.58
1	Z	1190	SER	CA-C-N	5.71	133.31	121.32
1	Z	1190	SER	C-N-CA	5.71	133.31	121.32
1	Z	1285	GLN	OE1-CD-NE2	5.71	128.31	122.60
1	A	1145	PRO	O-C-N	5.71	129.82	122.91
1	W	81	ASN	OD1-CG-ND2	5.71	128.31	122.60
2	X	366	ASN	CA-CB-CG	-5.71	106.89	112.60
1	Z	816	THR	O-C-N	5.71	129.87	123.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	417	SER	N-CA-C	5.71	118.44	111.82
1	W	658	TYR	N-CA-C	5.71	117.37	109.15
1	A	929	SER	CA-C-N	5.71	132.44	121.54
1	A	929	SER	C-N-CA	5.71	132.44	121.54
2	B	49	VAL	N-CA-C	-5.70	99.91	108.12
1	W	536	VAL	CA-C-O	5.70	126.75	120.48
1	W	1022	HIS	CE1-NE2-CD2	-5.70	103.30	109.00
1	W	1351	VAL	O-C-N	5.70	128.83	122.61
1	Z	438	ILE	O-C-N	-5.70	118.01	122.97
1	Z	1357	SER	O-C-N	5.70	129.28	122.26
1	A	170	ALA	O-C-N	5.70	130.17	122.59
1	Z	193	PHE	CA-CB-CG	-5.70	108.10	113.80
2	B	133	ALA	N-CA-CB	5.70	120.66	110.80
1	W	783	SER	N-CA-C	-5.70	100.07	108.79
1	Z	1077	VAL	N-CA-C	-5.70	100.11	109.12
1	W	1039	LEU	N-CA-CB	5.70	120.12	110.49
1	Z	517	GLY	CA-C-N	5.70	128.49	120.28
1	Z	517	GLY	C-N-CA	5.70	128.49	120.28
1	V	1102	SER	CA-C-N	5.70	129.35	120.75
1	V	1102	SER	C-N-CA	5.70	129.35	120.75
1	Z	188	LEU	N-CA-C	-5.70	100.41	109.07
1	W	795	ALA	CA-C-N	5.69	129.56	121.42
1	W	795	ALA	C-N-CA	5.69	129.56	121.42
1	A	518	THR	N-CA-C	-5.69	107.33	114.56
2	C	379	LEU	CA-C-N	5.69	127.84	120.44
2	C	379	LEU	C-N-CA	5.69	127.84	120.44
1	W	1316	HIS	CA-CB-CG	-5.69	108.11	113.80
2	X	208	GLN	CA-C-N	5.69	129.88	120.94
2	X	208	GLN	C-N-CA	5.69	129.88	120.94
1	Z	901	GLN	N-CA-CB	5.69	119.07	110.42
1	W	903	SER	N-CA-CB	5.69	120.21	110.77
1	A	1227	ILE	CA-CB-CG2	-5.69	100.83	110.50
1	V	117	LEU	CA-C-O	-5.69	112.37	120.16
1	W	166	TYR	CA-C-N	5.69	128.16	120.65
1	W	166	TYR	C-N-CA	5.69	128.16	120.65
1	A	824	VAL	CA-CB-CG1	5.69	120.07	110.40
1	W	504	ASN	O-C-N	-5.69	116.45	123.33
1	W	931	TRP	CD2-CE2-CZ2	-5.69	116.71	122.40
2	X	351	ILE	CB-CG1-CD1	5.68	125.74	113.80
1	Z	615	THR	CA-C-N	5.68	128.54	120.53
1	Z	615	THR	C-N-CA	5.68	128.54	120.53
1	Z	1095	PRO	N-CA-C	-5.68	105.78	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	156	THR	N-CA-C	-5.68	99.64	108.90
1	Z	343	VAL	CA-CB-CG1	5.68	120.06	110.40
1	A	153	ILE	CA-C-O	-5.68	115.74	121.59
1	V	968	LEU	N-CA-C	-5.68	106.24	112.72
2	B	84	GLY	CA-C-N	5.68	131.16	122.93
2	B	84	GLY	C-N-CA	5.68	131.16	122.93
1	V	267	TYR	N-CA-CB	5.68	119.71	110.17
1	V	673	THR	CA-CB-CG2	-5.68	100.84	110.50
1	W	1248	PHE	N-CA-C	-5.68	98.70	110.80
2	B	303	PRO	CA-C-N	5.68	126.94	119.84
2	B	303	PRO	C-N-CA	5.68	126.94	119.84
2	C	270	VAL	N-CA-CB	5.68	118.61	111.46
1	V	845	PRO	CA-C-N	5.68	127.89	120.28
1	V	845	PRO	C-N-CA	5.68	127.89	120.28
2	X	467	ILE	CA-C-N	5.68	127.71	120.56
2	X	467	ILE	C-N-CA	5.68	127.71	120.56
1	Z	1042	LEU	CA-C-N	5.68	131.11	122.65
1	Z	1042	LEU	C-N-CA	5.68	131.11	122.65
2	C	112	GLY	CA-C-N	5.67	131.28	122.26
2	C	112	GLY	C-N-CA	5.67	131.28	122.26
1	W	646	PHE	O-C-N	-5.67	114.49	122.26
1	W	1043	SER	CA-C-N	5.67	128.82	120.82
1	W	1043	SER	C-N-CA	5.67	128.82	120.82
1	Z	1275	ASN	CA-CB-CG	5.67	118.28	112.60
1	Z	1285	GLN	N-CA-C	-5.67	103.73	111.56
1	A	1106	ILE	N-CA-C	-5.67	99.33	107.78
1	A	366	SER	CA-C-O	-5.67	114.87	120.82
1	V	1080	GLN	CA-C-N	5.67	125.68	119.90
1	V	1080	GLN	C-N-CA	5.67	125.68	119.90
1	W	296	LEU	N-CA-C	-5.67	98.28	108.48
1	A	279	GLN	CG-CD-OE1	5.67	132.13	120.80
1	Z	1383	PRO	CA-C-N	5.67	128.92	120.31
1	Z	1383	PRO	C-N-CA	5.67	128.92	120.31
1	A	104	THR	CA-C-N	5.66	128.91	120.87
1	A	104	THR	C-N-CA	5.66	128.91	120.87
2	C	156	GLY	N-CA-C	-5.66	106.85	115.00
1	Z	1265	PRO	N-CA-CB	-5.66	97.30	103.25
1	A	1277	SER	N-CA-CB	5.66	118.89	110.29
2	B	28	ILE	N-CA-C	-5.66	98.90	107.73
2	C	419	GLY	CA-C-O	5.66	127.11	121.00
1	W	456	PRO	CA-C-O	-5.66	112.36	120.56
1	W	1059	TYR	CA-CB-CG	5.66	124.08	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	X	335	MET	N-CA-C	-5.66	99.68	108.90
1	Z	1347	LEU	CA-C-N	5.66	129.94	122.42
1	Z	1347	LEU	C-N-CA	5.66	129.94	122.42
1	V	246	ILE	CA-C-O	-5.66	114.36	120.36
1	V	690	VAL	CA-CB-CG2	-5.66	100.78	110.40
1	W	1248	PHE	O-C-N	5.66	130.11	122.59
1	A	673	THR	O-C-N	-5.65	115.84	122.96
1	A	662	ALA	CA-C-N	5.65	130.19	121.71
1	A	662	ALA	C-N-CA	5.65	130.19	121.71
2	C	313	PHE	N-CA-C	-5.65	100.19	109.40
2	B	360	ASN	CA-CB-CG	5.65	118.25	112.60
1	V	818	LYS	N-CA-C	-5.65	105.20	111.36
1	V	915	SER	CA-C-N	5.65	126.90	119.84
1	V	915	SER	C-N-CA	5.65	126.90	119.84
1	Z	122	THR	N-CA-CB	5.65	119.00	110.30
1	A	783	SER	N-CA-C	-5.65	99.81	109.24
1	A	1236	THR	CA-CB-OG1	5.65	118.07	109.60
1	W	683	ASN	N-CA-CB	5.65	119.14	110.61
1	Z	749	ASP	CA-CB-CG	5.64	118.24	112.60
2	C	37	VAL	CA-C-O	-5.64	113.73	120.90
1	V	1009	VAL	O-C-N	5.64	127.44	121.91
1	W	1242	PRO	N-CA-C	-5.64	100.85	112.47
1	Z	854	ILE	CB-CA-C	-5.64	103.11	111.80
1	A	984	GLU	CA-CB-CG	5.64	125.38	114.10
1	Z	87	VAL	N-CA-C	5.64	115.83	110.53
1	V	689	ALA	CB-CA-C	-5.64	101.76	111.23
2	C	465	VAL	N-CA-C	5.64	118.14	111.09
1	V	203	TYR	CA-C-O	-5.64	114.55	120.58
1	W	1142	ASN	N-CA-CB	5.64	118.25	109.85
1	A	615	THR	CA-CB-OG1	-5.63	101.15	109.60
1	A	1088	LEU	CA-C-O	-5.63	114.90	120.82
1	W	1287	LEU	N-CA-CB	5.63	119.77	110.42
1	Z	932	ASN	O-C-N	-5.63	117.03	123.40
1	Z	1354	GLN	N-CA-C	-5.63	100.11	109.46
1	V	706	TYR	O-C-N	-5.63	114.99	122.59
1	V	782	THR	CA-C-N	5.63	131.69	121.89
1	V	782	THR	C-N-CA	5.63	131.69	121.89
1	V	1380	SER	CA-C-N	5.63	132.29	121.54
1	V	1380	SER	C-N-CA	5.63	132.29	121.54
1	Z	166	TYR	N-CA-C	5.63	122.79	110.80
1	A	338	TYR	CB-CG-CD2	-5.63	112.36	120.80
1	V	490	THR	O-C-N	5.63	130.23	123.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	755	GLN	CG-CD-NE2	5.63	124.84	116.40
1	A	549	MET	CA-C-N	5.63	132.29	121.54
1	A	549	MET	C-N-CA	5.63	132.29	121.54
1	W	309	GLY	N-CA-C	-5.62	99.85	113.18
1	W	1003	LYS	N-CA-CB	5.62	118.58	110.20
1	A	534	ASP	CA-C-N	5.62	128.82	120.95
1	A	534	ASP	C-N-CA	5.62	128.82	120.95
1	V	646	PHE	CB-CA-C	-5.62	102.41	111.18
1	W	827	ASN	OD1-CG-ND2	5.62	128.22	122.60
1	Z	111	SER	N-CA-CB	5.62	119.99	110.49
2	X	129	SER	N-CA-C	-5.62	100.73	109.72
1	Z	738	TYR	CA-C-N	5.62	128.58	120.38
1	Z	738	TYR	C-N-CA	5.62	128.58	120.38
1	Z	328	GLY	CA-C-O	-5.62	115.31	121.77
1	V	571	VAL	CA-C-O	-5.62	114.93	118.69
1	V	1089	GLN	CA-C-O	-5.62	114.01	120.24
1	W	24	GLY	O-C-N	5.62	129.28	122.32
1	Z	101	TYR	CA-C-O	5.62	126.23	119.43
1	V	616	VAL	N-CA-C	-5.61	106.34	111.67
1	V	1005	LEU	CA-C-O	5.61	126.34	119.05
1	W	828	MET	CB-CA-C	-5.61	101.10	110.19
2	X	190	ALA	N-CA-C	-5.61	101.03	109.95
1	Z	60	GLU	N-CA-C	-5.61	101.00	108.74
1	A	2	THR	N-CA-C	-5.61	102.98	109.93
1	Z	978	PRO	CA-C-O	-5.61	111.10	119.34
1	A	175	GLN	O-C-N	5.61	130.62	123.11
1	A	361	VAL	N-CA-CB	5.61	119.83	110.86
1	Z	623	ASN	CA-CB-CG	-5.61	106.99	112.60
1	A	1060	PRO	N-CA-CB	5.60	109.18	102.85
1	Z	1274	TYR	CA-C-N	5.60	131.95	122.26
1	Z	1274	TYR	C-N-CA	5.60	131.95	122.26
1	A	692	PHE	CA-C-N	5.60	125.59	120.21
1	A	692	PHE	C-N-CA	5.60	125.59	120.21
1	Z	1295	LEU	N-CA-C	-5.60	97.43	109.81
1	A	200	VAL	N-CA-CB	5.60	120.47	111.23
1	V	477	THR	N-CA-C	-5.60	103.97	112.99
1	Z	1234	VAL	N-CA-C	-5.60	107.28	112.83
1	V	1124	GLY	O-C-N	-5.60	116.36	122.41
1	W	235	TYR	CA-C-O	-5.60	112.98	119.59
1	W	412	GLN	CB-CA-C	5.60	120.64	111.23
2	X	99	THR	CA-CB-OG1	5.60	118.00	109.60
2	B	376	ASN	CA-C-O	-5.60	114.62	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	403	ASN	CA-CB-CG	-5.60	107.00	112.60
1	V	1159	GLY	N-CA-C	-5.60	99.22	110.69
1	W	1219	ALA	N-CA-CB	5.60	118.19	109.85
1	Z	1001	LEU	N-CA-CB	5.60	118.08	109.91
1	V	613	TYR	CA-C-N	5.60	130.39	121.66
1	V	613	TYR	C-N-CA	5.60	130.39	121.66
1	W	595	ALA	O-C-N	-5.59	116.31	122.07
1	W	722	ALA	CA-C-O	-5.59	114.89	121.16
1	Z	1358	ASN	N-CA-C	-5.59	105.05	113.89
1	V	54	GLN	N-CA-CB	5.59	120.26	111.20
1	Z	1317	THR	O-C-N	-5.59	116.67	123.10
1	A	132	GLN	CA-C-O	5.59	126.88	120.84
1	A	269	VAL	N-CA-C	-5.59	98.88	107.71
2	C	355	VAL	CA-CB-CG2	-5.59	100.89	110.40
1	V	882	SER	N-CA-C	-5.59	99.81	108.42
1	V	325	ASN	CA-C-N	5.59	125.52	119.76
1	V	325	ASN	C-N-CA	5.59	125.52	119.76
1	V	704	PHE	N-CA-C	-5.59	101.17	110.17
1	V	941	VAL	O-C-N	5.59	128.99	123.18
1	V	1172	VAL	CB-CA-C	5.59	118.25	110.99
1	V	1239	THR	N-CA-C	-5.59	101.26	109.81
1	W	161	THR	N-CA-CB	5.59	118.34	110.12
1	W	1127	VAL	CA-CB-CG2	5.59	119.90	110.40
1	Z	1085	TYR	CA-CB-CG	-5.59	103.84	113.90
2	B	468	VAL	CA-C-O	-5.59	114.44	120.47
1	V	844	VAL	CA-C-N	5.59	126.82	119.84
1	V	844	VAL	C-N-CA	5.59	126.82	119.84
1	V	901	GLN	N-CA-CB	5.59	118.43	110.44
1	V	1158	THR	CA-C-N	5.59	128.73	122.42
1	V	1158	THR	C-N-CA	5.59	128.73	122.42
1	A	1277	SER	O-C-N	5.58	129.27	122.96
1	W	804	MET	CA-C-O	-5.58	114.84	121.60
1	W	1210	LEU	O-C-N	-5.58	115.17	121.43
1	A	1306	PHE	N-CA-CB	5.58	119.32	110.84
1	V	175	GLN	N-CA-C	-5.58	100.60	109.59
1	W	552	ASN	CA-C-O	-5.58	114.39	120.36
2	X	465	VAL	N-CA-C	5.58	118.03	111.05
1	A	1196	ASN	N-CA-CB	5.58	120.51	112.08
1	V	199	PRO	CA-C-O	5.58	127.39	121.03
1	V	891	TYR	N-CA-C	-5.58	100.25	107.73
1	W	404	TRP	N-CA-C	-5.58	101.84	109.71
1	Z	523	TYR	N-CA-CB	5.58	119.61	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	932	ASN	CA-C-O	5.58	127.19	120.27
2	B	473	LYS	CA-CB-CG	5.58	125.25	114.10
1	V	84	TYR	CA-C-O	-5.58	115.26	121.23
1	V	594	ILE	CA-C-N	5.58	127.75	120.28
1	V	594	ILE	C-N-CA	5.58	127.75	120.28
1	A	439	ASN	OD1-CG-ND2	-5.58	117.02	122.60
2	B	248	GLN	OE1-CD-NE2	5.58	128.18	122.60
2	C	393	LEU	CA-C-N	5.58	128.21	120.29
2	C	393	LEU	C-N-CA	5.58	128.21	120.29
1	V	181	GLY	N-CA-C	-5.58	99.97	113.18
1	Z	929	SER	N-CA-CB	5.57	118.69	109.88
1	W	677	LEU	CA-C-O	-5.57	115.12	120.64
2	X	277	PRO	N-CA-C	-5.57	107.39	114.35
1	V	13	TYR	CA-C-N	5.57	128.67	120.82
1	V	13	TYR	C-N-CA	5.57	128.67	120.82
1	V	934	PRO	N-CA-C	-5.57	106.89	114.80
2	X	113	THR	N-CA-C	-5.57	105.29	111.36
1	Z	437	GLY	CA-C-O	-5.57	116.10	121.11
1	V	383	TYR	CA-C-N	5.56	128.77	120.87
1	V	383	TYR	C-N-CA	5.56	128.77	120.87
1	V	977	PHE	CA-C-N	5.56	124.92	118.85
1	V	977	PHE	C-N-CA	5.56	124.92	118.85
1	W	817	TYR	CA-C-O	5.56	124.60	118.65
2	X	96	PRO	CA-C-O	-5.56	115.07	121.36
1	A	1171	VAL	CA-C-N	5.56	131.21	122.70
1	A	1171	VAL	C-N-CA	5.56	131.21	122.70
2	B	436	ASN	CA-CB-CG	5.56	118.16	112.60
1	A	1369	SER	O-C-N	-5.56	116.88	123.22
1	V	743	ALA	O-C-N	-5.56	116.91	123.41
2	X	418	GLN	N-CA-C	-5.56	105.12	111.07
2	X	450	TYR	CB-CG-CD2	-5.56	112.46	120.80
1	Z	1036	LEU	N-CA-C	-5.56	100.75	109.25
2	B	306	GLU	N-CA-CB	5.56	118.31	110.36
1	V	491	LEU	N-CA-C	-5.56	100.83	109.72
1	W	750	ASN	OD1-CG-ND2	5.56	128.16	122.60
1	A	647	ILE	N-CA-CB	5.56	117.68	110.57
1	W	1069	PRO	N-CA-C	5.56	117.48	110.70
1	V	206	PHE	CA-CB-CG	5.55	119.35	113.80
1	Z	482	THR	CA-CB-OG1	5.55	117.93	109.60
1	A	992	PHE	N-CA-CB	5.55	118.39	109.28
1	V	25	LEU	N-CA-CB	5.55	118.70	109.60
1	A	829	ILE	N-CA-CB	5.55	118.95	112.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	4	PRO	N-CD-CG	5.55	111.52	103.20
1	V	568	ALA	CA-C-N	5.55	125.39	119.28
1	V	568	ALA	C-N-CA	5.55	125.39	119.28
1	W	308	LEU	N-CA-CB	-5.55	101.86	110.57
1	W	512	TYR	CA-C-N	5.55	129.35	121.42
1	W	512	TYR	C-N-CA	5.55	129.35	121.42
1	A	1003	LYS	N-CA-C	5.55	118.25	111.82
1	A	177	GLY	CA-C-N	5.54	130.21	122.23
1	A	177	GLY	C-N-CA	5.54	130.21	122.23
1	A	210	ASN	CA-C-O	5.54	127.30	120.15
2	C	343	LEU	N-CA-C	5.54	118.04	111.33
1	V	1168	ASN	OD1-CG-ND2	-5.54	117.06	122.60
1	W	411	VAL	CA-CB-CG1	5.54	119.83	110.40
1	W	1266	ASN	OD1-CG-ND2	5.54	128.14	122.60
1	Z	872	THR	CA-C-N	5.54	132.28	121.41
1	Z	872	THR	C-N-CA	5.54	132.28	121.41
1	V	96	SER	CB-CA-C	-5.54	101.20	110.29
1	Z	745	ASN	N-CA-C	-5.54	105.34	111.71
1	A	1385	GLN	N-CA-C	-5.54	100.89	109.14
1	A	1017	LEU	N-CA-CB	5.54	119.85	110.49
1	V	144	LEU	N-CA-C	-5.54	100.94	109.52
1	A	1053	GLU	CB-CA-C	-5.54	100.04	109.51
1	A	683	ASN	CA-CB-CG	5.54	118.14	112.60
1	W	1158	THR	CA-C-N	5.54	129.47	122.77
1	W	1158	THR	C-N-CA	5.54	129.47	122.77
2	X	340	ASN	N-CA-C	-5.54	103.22	110.53
1	V	580	PRO	O-C-N	5.53	129.75	123.00
1	W	693	PRO	CA-C-O	-5.53	115.46	121.27
1	W	1340	ILE	N-CA-CB	5.53	118.19	110.56
1	W	753	PHE	CA-C-O	-5.53	112.45	119.31
1	Z	611	SER	CA-C-N	-5.53	113.63	122.53
1	Z	611	SER	C-N-CA	-5.53	113.63	122.53
1	A	1275	ASN	CA-C-N	5.53	128.35	122.38
1	A	1275	ASN	C-N-CA	5.53	128.35	122.38
1	A	1351	VAL	O-C-N	-5.53	116.75	122.66
2	B	195	TYR	N-CA-CB	5.53	121.02	111.13
1	W	93	VAL	CA-C-O	-5.53	114.48	120.67
1	W	693	PRO	N-CD-CG	5.53	111.49	103.20
1	A	659	ASP	N-CA-CB	5.53	120.20	110.37
2	B	433	GLY	CA-C-O	5.53	126.44	120.75
1	V	1348	LEU	CA-C-N	-5.53	115.59	123.11
1	V	1348	LEU	C-N-CA	-5.53	115.59	123.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1247	ASN	CA-C-N	5.52	132.09	121.54
1	A	1247	ASN	C-N-CA	5.52	132.09	121.54
1	V	1005	LEU	CA-C-N	5.52	129.97	122.07
1	V	1005	LEU	C-N-CA	5.52	129.97	122.07
1	A	351	THR	CA-CB-OG1	5.52	117.88	109.60
1	V	446	PRO	N-CA-CB	5.52	108.67	102.60
1	V	885	ASN	CA-C-N	5.52	130.62	122.94
1	V	885	ASN	C-N-CA	5.52	130.62	122.94
1	W	290	PRO	CA-C-N	5.52	127.68	120.28
1	W	290	PRO	C-N-CA	5.52	127.68	120.28
1	W	910	GLU	N-CA-CB	5.52	121.76	110.50
2	B	289	THR	N-CA-C	-5.52	105.76	112.88
1	V	209	SER	O-C-N	5.52	129.60	122.81
1	Z	124	GLN	CA-C-N	5.52	126.74	119.84
1	Z	124	GLN	C-N-CA	5.52	126.74	119.84
1	V	452	ILE	N-CA-C	5.52	117.28	108.89
1	V	1343	SER	N-CA-C	-5.52	96.16	107.70
2	C	358	ILE	N-CA-C	5.52	116.25	110.62
1	A	53	ILE	N-CA-C	-5.52	100.42	108.97
1	A	537	LEU	CA-C-O	5.51	127.97	121.36
1	A	1182	SER	N-CA-CB	5.51	118.86	109.87
1	A	1000	GLY	O-C-N	-5.51	116.48	122.54
1	V	391	GLY	N-CA-C	-5.51	100.12	113.18
1	W	880	THR	CA-CB-OG1	5.51	117.87	109.60
2	X	97	GLY	N-CA-C	-5.51	107.72	115.32
1	Z	32	VAL	CB-CA-C	-5.51	103.53	111.19
1	Z	627	PHE	CA-C-O	-5.51	115.27	121.05
2	C	94	SER	N-CA-C	-5.51	106.41	113.02
1	A	128	GLU	CA-C-N	5.51	132.06	121.54
1	A	128	GLU	C-N-CA	5.51	132.06	121.54
2	C	353	SER	CA-C-N	5.51	128.11	120.29
2	C	353	SER	C-N-CA	5.51	128.11	120.29
1	V	544	GLU	CA-C-O	-5.51	114.83	121.22
1	V	1022	HIS	ND1-CE1-NE2	5.51	113.91	108.40
1	V	1027	GLY	N-CA-C	-5.51	106.60	115.08
1	V	1331	ALA	CB-CA-C	-5.51	100.86	109.84
1	Z	668	PRO	CA-C-N	5.51	130.18	122.36
1	Z	668	PRO	C-N-CA	5.51	130.18	122.36
1	V	642	ASN	N-CA-C	-5.50	101.04	109.41
1	V	1120	ASN	N-CA-CB	5.50	118.11	109.69
1	W	1223	ASN	OD1-CG-ND2	-5.50	117.10	122.60
1	V	44	ASN	N-CA-C	5.50	117.73	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	304	TYR	CA-C-O	-5.50	115.23	121.72
1	Z	427	GLN	CA-C-N	5.50	128.27	122.11
1	Z	427	GLN	C-N-CA	5.50	128.27	122.11
1	Z	73	VAL	N-CA-C	-5.50	101.82	108.53
1	V	438	ILE	CA-CB-CG2	5.50	119.85	110.50
2	X	349	LYS	CA-C-N	5.50	127.59	120.44
2	X	349	LYS	C-N-CA	5.50	127.59	120.44
1	Z	13	TYR	CA-C-N	5.50	129.57	120.94
1	Z	13	TYR	C-N-CA	5.50	129.57	120.94
2	C	78	GLN	CB-CA-C	-5.50	101.17	110.19
1	V	749	ASP	CA-CB-CG	5.50	118.10	112.60
1	V	1130	ASN	N-CA-C	-5.50	101.28	109.96
1	W	516	ASN	CA-CB-CG	5.50	118.09	112.60
2	B	209	ASN	CA-C-O	-5.49	115.21	120.92
1	Z	939	PHE	O-C-N	-5.49	115.99	122.58
1	W	107	ASN	CA-C-N	5.49	128.09	123.04
1	W	107	ASN	C-N-CA	5.49	128.09	123.04
1	Z	900	TYR	N-CA-C	-5.49	106.08	112.89
1	A	447	TYR	CB-CG-CD2	-5.49	112.57	120.80
1	Z	709	PHE	CA-CB-CG	5.49	119.29	113.80
2	B	98	PHE	N-CA-C	-5.49	106.17	112.92
1	W	556	VAL	CA-CB-CG1	-5.49	101.07	110.40
2	X	260	PHE	N-CA-C	-5.49	99.47	108.41
1	Z	601	LEU	N-CA-C	-5.49	106.26	113.17
1	V	1089	GLN	O-C-N	5.49	129.36	122.23
2	B	366	ASN	OD1-CG-ND2	-5.48	117.12	122.60
1	V	622	VAL	N-CA-C	-5.48	108.16	113.53
1	W	630	ILE	CB-CG1-CD1	-5.48	102.28	113.80
1	V	127	ASP	N-CA-C	-5.48	103.46	110.53
1	W	162	SER	N-CA-C	5.48	116.94	111.07
1	A	25	LEU	N-CA-C	-5.48	100.09	109.24
2	C	415	ASN	OD1-CG-ND2	5.48	128.08	122.60
1	V	759	GLY	N-CA-C	-5.48	107.54	115.27
1	W	992	PHE	CA-CB-CG	-5.48	108.32	113.80
1	Z	126	TYR	N-CA-CB	5.48	120.92	111.00
1	A	845	PRO	CA-C-N	5.48	127.62	120.28
1	A	845	PRO	C-N-CA	5.48	127.62	120.28
2	B	130	THR	CA-CB-OG1	-5.48	101.38	109.60
1	V	1090	PHE	CA-C-O	-5.48	114.61	120.42
1	W	200	VAL	N-CA-CB	5.48	120.27	111.23
2	X	344	GLN	CB-CG-CD	-5.47	103.30	112.60
1	A	429	LEU	CA-C-O	-5.47	114.42	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	967	PRO	N-CD-CG	5.47	111.41	103.20
1	W	976	LEU	N-CA-C	5.47	116.92	111.07
1	W	1195	LEU	CA-C-N	5.47	130.17	122.46
1	W	1195	LEU	C-N-CA	5.47	130.17	122.46
1	V	349	SER	CA-C-O	5.47	127.58	121.40
1	Z	1180	LYS	O-C-N	-5.47	115.32	122.59
2	X	140	GLY	N-CA-C	-5.47	106.48	114.90
1	Z	841	ILE	N-CA-C	-5.47	101.14	108.35
1	A	1094	ASN	N-CA-C	-5.46	102.75	110.29
1	V	1354	GLN	O-C-N	5.46	130.33	123.12
1	Z	400	LEU	N-CA-CB	5.46	119.72	110.49
1	A	205	PRO	N-CA-C	5.46	119.78	111.15
1	V	327	SER	CA-C-O	5.46	124.81	118.97
1	W	581	LEU	CA-C-O	-5.46	114.72	121.11
2	B	370	THR	CA-C-N	5.46	127.60	120.28
2	B	370	THR	C-N-CA	5.46	127.60	120.28
1	W	26	VAL	N-CA-C	-5.46	100.76	109.17
1	W	622	VAL	CA-C-O	5.46	125.53	119.42
2	B	432	SER	O-C-N	5.46	128.37	122.15
1	Z	49	VAL	O-C-N	5.46	127.57	121.90
1	A	1254	ALA	O-C-N	-5.45	118.01	121.88
2	X	406	THR	CA-CB-OG1	5.45	117.78	109.60
1	A	231	SER	O-C-N	-5.45	117.37	123.04
2	B	39	ASN	CA-CB-CG	-5.45	107.15	112.60
2	C	328	THR	O-C-N	-5.45	117.01	123.22
1	Z	242	GLY	CA-C-N	5.45	129.82	120.72
1	Z	242	GLY	C-N-CA	5.45	129.82	120.72
1	Z	313	ASN	CB-CG-ND2	-5.45	108.22	116.40
1	Z	1147	LEU	CA-C-N	5.45	131.95	121.54
1	Z	1147	LEU	C-N-CA	5.45	131.95	121.54
2	B	65	TYR	CB-CG-CD2	5.45	128.97	120.80
2	B	111	GLN	N-CA-C	-5.45	99.64	108.52
2	C	439	GLN	O-C-N	5.45	128.36	122.15
1	V	772	SER	N-CA-C	5.45	114.57	108.25
2	X	280	THR	N-CA-CB	5.45	119.32	110.77
1	V	459	GLU	N-CA-CB	5.45	118.53	109.60
1	V	1182	SER	N-CA-CB	5.45	119.56	110.85
1	A	1320	PRO	N-CD-CG	5.45	111.37	103.20
2	B	217	VAL	N-CA-C	5.45	114.08	109.02
2	C	259	SER	N-CA-C	-5.45	100.90	109.50
2	C	306	GLU	N-CA-C	-5.45	99.53	108.41
1	W	718	PHE	CA-CB-CG	-5.45	108.36	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	98	LEU	CA-C-N	5.45	128.41	120.51
1	Z	98	LEU	C-N-CA	5.45	128.41	120.51
1	W	1389	THR	O-C-N	-5.44	115.57	122.27
1	Z	22	ALA	N-CA-C	-5.44	99.20	110.80
1	A	369	PHE	CA-C-N	5.44	128.22	120.49
1	A	369	PHE	C-N-CA	5.44	128.22	120.49
2	C	138	GLN	CA-C-O	5.44	126.02	119.43
1	W	972	ASN	CB-CA-C	-5.44	100.24	109.38
1	W	1101	LEU	CA-C-O	5.44	126.58	120.70
1	A	745	ASN	CA-CB-CG	-5.44	107.16	112.60
2	C	182	VAL	CA-CB-CG1	5.44	119.65	110.40
1	Z	867	HIS	CE1-NE2-CD2	-5.44	103.56	109.00
1	Z	1187	THR	CA-C-O	5.44	127.32	121.55
1	Z	802	PRO	N-CD-CG	5.44	111.36	103.20
1	V	1071	TRP	N-CA-C	-5.44	102.15	110.14
1	Z	214	GLN	CB-CA-C	-5.44	104.49	111.50
1	Z	407	THR	CA-C-O	-5.44	113.52	119.61
1	W	612	ALA	N-CA-C	-5.44	101.72	110.14
1	W	735	ASN	CB-CA-C	-5.44	102.15	109.71
1	W	1053	GLU	CB-CA-C	-5.44	100.21	109.51
2	B	212	VAL	CA-CB-CG2	5.43	119.64	110.40
1	V	539	PHE	O-C-N	-5.43	116.64	123.27
1	W	754	ILE	N-CA-CB	5.43	120.20	111.23
1	A	823	THR	CA-C-N	5.43	130.69	122.98
1	A	823	THR	C-N-CA	5.43	130.69	122.98
1	V	676	SER	CA-C-O	-5.43	114.50	120.69
1	W	1134	GLN	CA-C-N	5.43	129.06	121.02
1	W	1134	GLN	C-N-CA	5.43	129.06	121.02
1	A	346	SER	N-CA-C	-5.43	106.24	112.92
1	A	602	TRP	N-CA-CB	5.43	119.72	110.71
1	A	173	ASN	N-CA-C	-5.43	105.47	113.61
1	A	235	TYR	CA-C-N	5.43	131.91	121.54
1	A	235	TYR	C-N-CA	5.43	131.91	121.54
1	V	462	ILE	CA-CB-CG1	5.43	119.63	110.40
1	V	624	LEU	O-C-N	5.43	129.09	122.96
1	W	81	ASN	CA-CB-CG	5.43	118.03	112.60
1	Z	321	ALA	CA-C-N	5.43	129.18	121.42
1	Z	321	ALA	C-N-CA	5.43	129.18	121.42
1	Z	977	PHE	CB-CA-C	-5.43	102.64	109.31
1	A	1282	PRO	N-CA-C	5.42	123.65	112.47
1	V	272	PRO	CB-CA-C	5.42	118.09	110.98
1	V	324	ILE	CA-C-N	5.42	128.59	120.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	324	ILE	C-N-CA	5.42	128.59	120.83
1	V	351	THR	N-CA-C	-5.42	103.23	110.07
1	W	45	VAL	CA-C-O	-5.42	115.42	121.17
1	W	571	VAL	CA-CB-CG2	-5.42	101.18	110.40
1	A	604	ASN	N-CA-C	-5.42	107.22	112.97
2	C	58	ALA	N-CA-CB	5.42	119.47	110.52
1	V	302	ASN	CA-C-O	5.42	125.77	119.32
1	W	1138	THR	N-CA-C	-5.42	100.19	109.24
2	X	430	ASN	N-CA-CB	5.42	118.09	110.12
2	B	437	SER	CB-CA-C	5.42	119.39	110.88
1	W	844	VAL	CA-CB-CG2	5.42	119.61	110.40
1	A	830	ASN	O-C-N	5.42	129.80	122.59
1	V	148	SER	N-CA-C	-5.42	106.68	113.72
1	V	420	THR	N-CA-C	-5.42	100.41	109.24
1	Z	618	ASN	N-CA-C	5.42	117.25	110.91
1	A	1174	ILE	N-CA-CB	5.42	118.79	111.21
1	Z	831	GLY	N-CA-C	-5.42	105.40	111.63
1	Z	853	ASN	CA-CB-CG	5.42	118.02	112.60
2	C	418	GLN	CA-C-N	5.42	125.95	119.94
2	C	418	GLN	C-N-CA	5.42	125.95	119.94
1	Z	285	SER	O-C-N	-5.42	116.15	122.81
1	A	88	ASP	CA-C-O	5.41	125.09	119.14
2	B	242	SER	N-CA-C	-5.41	105.11	112.26
1	V	741	GLN	N-CA-C	-5.41	105.33	113.89
1	W	488	ASN	CA-CB-CG	5.41	118.01	112.60
1	V	1365	VAL	O-C-N	-5.41	115.81	122.57
1	W	1333	ARG	NE-CZ-NH1	5.41	126.91	121.50
2	X	335	MET	CA-C-O	5.41	126.20	120.36
1	V	46	ILE	CA-CB-CG2	-5.41	101.31	110.50
1	W	1303	ILE	CA-CB-CG1	5.41	119.59	110.40
2	X	48	LEU	N-CA-C	-5.41	102.28	110.28
1	Z	585	PHE	N-CA-C	-5.41	100.36	109.07
1	Z	888	ALA	N-CA-C	-5.41	100.42	109.24
2	B	402	SER	CA-C-N	5.41	127.47	120.44
2	B	402	SER	C-N-CA	5.41	127.47	120.44
1	V	246	ILE	O-C-N	5.41	129.04	123.20
2	B	186	PHE	CA-C-N	5.41	129.60	122.30
2	B	186	PHE	C-N-CA	5.41	129.60	122.30
1	W	937	VAL	CA-CB-CG2	5.41	119.59	110.40
1	Z	49	VAL	CA-C-O	-5.41	115.05	121.05
1	Z	378	THR	CA-C-O	-5.41	115.92	121.87
1	A	1312	GLN	N-CA-C	-5.40	106.27	112.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	1182	SER	N-CA-CB	5.40	118.09	110.36
1	A	611	SER	CA-C-N	5.40	131.05	122.62
1	A	611	SER	C-N-CA	5.40	131.05	122.62
2	X	385	ARG	O-C-N	-5.40	116.39	122.12
1	Z	663	VAL	N-CA-C	-5.40	101.29	108.96
1	A	1391	VAL	CB-CA-C	5.40	117.50	111.45
1	V	298	TYR	CB-CG-CD1	5.40	128.90	120.80
1	A	1316	HIS	N-CA-CB	-5.40	103.82	111.00
1	W	1076	ASN	OD1-CG-ND2	-5.40	117.20	122.60
2	B	105	THR	N-CA-CB	5.40	119.18	110.65
2	B	229	ILE	O-C-N	-5.40	115.84	122.97
2	C	458	ILE	N-CA-CB	5.40	116.86	110.55
1	V	197	THR	O-C-N	-5.40	116.89	122.94
1	W	20	ALA	N-CA-CB	5.40	117.58	110.29
1	W	850	VAL	CA-CB-CG2	-5.40	101.22	110.40
1	V	1386	LEU	N-CA-CB	5.40	120.60	110.56
1	V	700	PRO	N-CA-CB	5.39	108.91	103.25
1	V	820	ASP	CA-CB-CG	-5.39	107.20	112.60
1	W	515	ILE	N-CA-CB	5.39	120.13	111.23
1	W	849	PHE	CA-C-O	-5.39	112.75	119.38
2	X	104	TYR	N-CA-CB	5.39	118.49	110.29
1	Z	1306	PHE	CA-CB-CG	-5.39	108.41	113.80
1	A	1316	HIS	N-CA-C	-5.39	107.71	114.56
2	B	343	LEU	CA-C-N	5.39	127.77	120.38
2	B	343	LEU	C-N-CA	5.39	127.77	120.38
1	A	365	SER	CA-C-N	5.39	127.45	120.44
1	A	365	SER	C-N-CA	5.39	127.45	120.44
1	A	1168	ASN	N-CA-CB	5.39	121.18	111.37
1	Z	593	TYR	CA-CB-CG	-5.39	104.20	113.90
1	A	59	THR	CA-C-O	-5.39	115.08	121.66
2	X	336	SER	CA-C-O	-5.39	116.17	122.37
1	Z	1320	PRO	CB-CA-C	-5.39	107.34	111.87
1	A	892	PHE	CA-C-N	5.39	126.58	119.84
1	A	892	PHE	C-N-CA	5.39	126.58	119.84
1	V	210	ASN	N-CA-C	-5.39	106.63	114.12
1	W	683	ASN	CA-CB-CG	5.39	117.99	112.60
1	Z	860	THR	N-CA-C	5.39	118.04	110.23
1	A	989	ASN	CA-C-N	5.39	125.22	120.10
1	A	989	ASN	C-N-CA	5.39	125.22	120.10
2	X	136	VAL	N-CA-C	-5.39	98.14	109.34
1	A	405	TYR	CB-CA-C	-5.38	110.38	116.63
1	A	1006	ASN	CA-CB-CG	5.38	117.98	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	501	TYR	N-CA-C	5.38	116.45	108.86
2	B	46	GLN	CA-C-N	5.38	129.56	122.30
2	B	46	GLN	C-N-CA	5.38	129.56	122.30
2	C	455	ALA	CA-C-O	-5.38	114.72	120.42
1	W	896	THR	N-CA-C	-5.38	99.34	110.80
1	Z	539	PHE	N-CA-C	-5.38	100.25	109.24
1	Z	664	LEU	N-CA-C	-5.38	99.34	110.80
1	Z	1003	LYS	CA-C-O	5.38	126.45	120.80
1	Z	1265	PRO	CA-C-N	5.38	130.66	122.37
1	Z	1265	PRO	C-N-CA	5.38	130.66	122.37
1	Z	171	ASN	N-CA-C	-5.38	106.39	113.17
1	Z	298	TYR	N-CA-C	-5.38	100.92	109.96
1	A	193	PHE	N-CA-CB	5.38	120.86	111.13
1	V	1217	GLY	CA-C-N	5.38	128.48	120.95
1	V	1217	GLY	C-N-CA	5.38	128.48	120.95
1	Z	149	THR	N-CA-CB	5.38	119.58	110.49
1	A	681	TYR	N-CA-C	-5.38	99.17	108.69
1	Z	202	LEU	N-CA-C	-5.38	106.22	112.89
1	W	371	PRO	N-CD-CG	5.38	111.26	103.20
2	X	78	GLN	N-CA-C	-5.38	99.97	108.73
2	X	240	SER	CA-C-O	-5.38	113.25	119.59
1	A	45	VAL	N-CA-CB	5.37	118.64	110.58
1	A	1367	VAL	CA-CB-CG1	5.37	119.53	110.40
1	V	617	ASN	N-CA-C	-5.37	106.77	113.38
1	V	1234	VAL	N-CA-C	-5.37	105.71	113.07
1	W	381	ASN	OD1-CG-ND2	5.37	127.97	122.60
1	W	1146	THR	CA-C-N	5.37	129.92	122.77
1	W	1146	THR	C-N-CA	5.37	129.92	122.77
1	A	404	TRP	N-CA-CB	5.37	118.63	109.87
1	V	849	PHE	CA-C-N	5.37	130.52	123.11
1	V	849	PHE	C-N-CA	5.37	130.52	123.11
1	V	1144	LEU	N-CA-CB	5.37	120.69	110.49
1	V	445	SER	O-C-N	-5.37	115.14	121.32
1	W	183	LEU	CA-C-N	5.37	128.47	120.95
1	W	183	LEU	C-N-CA	5.37	128.47	120.95
1	W	118	PRO	N-CA-CB	5.37	108.89	103.25
1	W	704	PHE	CA-CB-CG	5.37	119.17	113.80
1	Z	1231	SER	O-C-N	-5.37	116.37	123.13
1	A	361	VAL	CB-CA-C	-5.37	103.42	110.98
1	Z	218	TYR	CA-C-O	-5.37	114.92	121.36
1	A	171	ASN	CA-C-N	-5.36	113.69	122.54
1	A	171	ASN	C-N-CA	-5.36	113.69	122.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	956	VAL	N-CA-C	-5.36	100.62	108.99
1	A	989	ASN	N-CA-CB	5.36	119.55	110.49
2	B	379	LEU	CA-C-O	-5.36	114.73	120.42
2	C	306	GLU	N-CA-CB	5.36	119.02	110.65
2	C	309	GLN	CA-C-N	5.36	130.73	123.11
2	C	309	GLN	C-N-CA	5.36	130.73	123.11
2	C	400	ILE	CA-CB-CG2	5.36	119.62	110.50
1	Z	926	ASN	CA-C-N	5.36	130.47	120.87
1	Z	926	ASN	C-N-CA	5.36	130.47	120.87
1	A	240	ILE	N-CA-C	-5.36	100.14	107.75
1	V	862	ASP	CA-CB-CG	-5.36	107.24	112.60
1	A	127	ASP	CA-C-N	5.36	128.32	120.71
1	A	127	ASP	C-N-CA	5.36	128.32	120.71
2	C	130	THR	CB-CA-C	-5.36	100.45	109.72
1	V	888	ALA	N-CA-CB	5.36	117.92	109.83
1	W	527	ALA	O-C-N	-5.35	117.06	123.06
1	A	1291	VAL	CB-CA-C	-5.35	104.97	111.88
1	Z	661	ASP	CA-CB-CG	5.35	117.95	112.60
1	A	1068	ALA	CA-C-O	-5.35	113.83	119.50
1	V	1353	LEU	O-C-N	5.35	129.56	123.31
2	X	363	LYS	CA-C-N	5.35	127.39	120.44
2	X	363	LYS	C-N-CA	5.35	127.39	120.44
1	Z	1377	PRO	N-CA-C	5.35	118.98	111.33
1	A	1346	ASN	N-CA-C	-5.35	98.66	108.02
1	A	654	THR	N-CA-CB	5.34	119.24	110.90
2	B	65	TYR	N-CA-CB	5.34	117.83	109.97
1	V	487	THR	CA-CB-CG2	-5.34	101.41	110.50
1	W	1173	GLN	CA-C-N	5.34	132.02	122.13
1	W	1173	GLN	C-N-CA	5.34	132.02	122.13
1	Z	192	SER	CA-C-O	-5.34	115.09	121.56
1	Z	994	PHE	CA-CB-CG	-5.34	108.46	113.80
2	X	472	ARG	NH1-CZ-NH2	5.34	126.24	119.30
1	W	167	THR	CA-C-N	5.34	128.43	120.31
1	W	167	THR	C-N-CA	5.34	128.43	120.31
2	X	173	THR	N-CA-CB	5.34	120.12	110.83
1	Z	148	SER	N-CA-C	5.34	117.18	111.36
1	Z	1203	GLY	CA-C-N	5.34	126.17	119.98
1	Z	1203	GLY	C-N-CA	5.34	126.17	119.98
2	C	352	SER	CA-C-N	5.34	127.43	120.28
2	C	352	SER	C-N-CA	5.34	127.43	120.28
1	V	683	ASN	CA-C-O	-5.34	114.95	119.97
1	W	1348	LEU	CA-C-N	5.34	130.20	123.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	1348	LEU	C-N-CA	5.34	130.20	123.10
1	A	157	ASN	CA-CB-CG	5.33	117.94	112.60
1	W	210	ASN	CA-CB-CG	-5.33	107.27	112.60
1	Z	84	TYR	CB-CA-C	5.33	118.03	110.24
1	Z	480	SER	N-CA-C	-5.33	102.58	110.48
1	A	1022	HIS	ND1-CE1-NE2	5.33	113.73	108.40
1	A	1252	ARG	NE-CZ-NH1	5.33	126.83	121.50
1	Z	468	ILE	CB-CA-C	5.33	118.72	110.50
1	Z	1206	GLY	CA-C-O	-5.33	115.26	120.75
1	A	1322	ALA	CA-C-N	5.33	127.80	120.39
1	A	1322	ALA	C-N-CA	5.33	127.80	120.39
2	B	69	GLY	O-C-N	-5.33	116.65	122.41
1	V	928	THR	N-CA-C	5.33	117.90	109.96
1	V	1357	SER	CB-CA-C	-5.33	102.38	111.02
1	W	820	ASP	CA-CB-CG	-5.33	107.27	112.60
1	Z	1260	ALA	N-CA-C	5.33	117.17	111.36
2	X	364	THR	O-C-N	-5.33	116.58	122.07
1	V	898	PRO	CA-C-O	-5.33	115.29	121.95
1	V	938	LEU	N-CA-C	-5.33	98.33	107.23
1	V	1341	GLY	CA-C-O	-5.33	114.04	119.37
1	W	1027	GLY	O-C-N	5.33	129.63	122.70
2	B	283	VAL	N-CA-CB	5.33	117.44	111.21
1	W	1078	VAL	CA-C-N	5.33	131.72	121.54
1	W	1078	VAL	C-N-CA	5.33	131.72	121.54
1	Z	986	GLN	OE1-CD-NE2	5.33	127.93	122.60
2	C	334	LEU	CA-C-N	5.33	129.46	122.06
2	C	334	LEU	C-N-CA	5.33	129.46	122.06
2	C	425	ASN	CB-CA-C	-5.33	101.95	110.79
1	V	1170	THR	O-C-N	5.33	129.67	122.96
1	W	630	ILE	N-CA-C	-5.33	100.06	108.90
1	Z	440	VAL	CA-C-O	-5.33	114.83	120.48
1	A	487	THR	N-CA-CB	5.32	119.48	110.49
1	W	340	TYR	CA-C-O	-5.32	114.81	120.40
1	Z	1365	VAL	N-CA-CB	5.32	118.75	111.41
1	V	431	LYS	N-CA-CB	5.32	120.51	111.57
1	A	317	LEU	N-CA-CB	5.32	118.15	109.69
1	A	739	LEU	CA-C-N	5.32	129.19	120.63
1	A	739	LEU	C-N-CA	5.32	129.19	120.63
1	V	468	ILE	N-CA-C	-5.32	100.82	108.48
1	W	944	VAL	N-CA-C	-5.32	100.94	108.65
1	V	1080	GLN	O-C-N	5.32	125.83	121.31
1	W	539	PHE	CA-CB-CG	-5.32	108.48	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1240	GLN	N-CA-C	-5.32	100.64	108.99
1	V	653	VAL	O-C-N	-5.32	117.41	123.10
1	Z	1319	SER	CA-CB-OG	5.32	121.73	111.10
1	A	230	LEU	N-CA-C	-5.31	106.38	112.92
2	B	274	VAL	CA-C-N	5.31	130.76	122.26
2	B	274	VAL	C-N-CA	5.31	130.76	122.26
1	V	630	ILE	N-CA-C	-5.31	100.20	108.44
1	V	683	ASN	CA-CB-CG	5.31	117.91	112.60
1	W	892	PHE	CA-CB-CG	5.31	119.11	113.80
1	Z	152	GLN	OE1-CD-NE2	5.31	127.91	122.60
1	Z	1076	ASN	N-CA-CB	5.31	119.47	110.49
1	Z	1324	PRO	N-CD-CG	5.31	111.17	103.20
2	B	114	THR	N-CA-CB	5.31	119.11	110.77
1	V	1008	ASN	OD1-CG-ND2	5.31	127.91	122.60
1	W	104	THR	CA-C-N	5.31	131.15	122.07
1	W	104	THR	C-N-CA	5.31	131.15	122.07
1	V	404	TRP	N-CA-CB	5.31	120.67	110.90
1	W	1127	VAL	CA-C-O	-5.31	114.31	121.32
1	Z	281	ALA	CA-C-N	5.31	130.92	122.59
1	Z	281	ALA	C-N-CA	5.31	130.92	122.59
1	V	969	THR	O-C-N	-5.31	116.18	122.65
2	X	313	PHE	CA-CB-CG	5.31	119.11	113.80
1	A	467	THR	CA-CB-OG1	-5.30	101.64	109.60
2	B	270	VAL	O-C-N	-5.30	117.61	123.18
1	Z	1156	THR	N-CA-C	-5.30	101.06	108.96
2	C	91	THR	CA-CB-OG1	5.30	117.55	109.60
1	V	37	VAL	CB-CA-C	5.30	118.30	110.77
1	W	444	GLN	O-C-N	-5.30	115.88	122.83
1	W	646	PHE	N-CA-C	-5.30	105.09	112.30
1	Z	632	ILE	N-CA-C	-5.30	104.84	109.19
1	A	564	LEU	N-CA-C	-5.30	98.58	108.02
2	B	400	ILE	N-CA-C	5.30	116.07	110.72
1	V	434	ALA	CA-C-O	-5.30	114.91	121.11
1	V	1312	GLN	N-CA-C	-5.30	106.04	112.88
1	Z	77	THR	N-CA-C	-5.30	106.58	114.64
1	W	1249	THR	CA-C-N	5.30	125.24	119.78
1	W	1249	THR	C-N-CA	5.30	125.24	119.78
1	W	1344	VAL	N-CA-CB	5.30	119.48	112.27
2	C	227	TYR	N-CA-C	-5.30	100.67	108.99
1	V	75	PHE	CA-C-O	-5.30	114.71	120.69
1	W	249	THR	CA-C-N	5.30	131.66	121.54
1	W	249	THR	C-N-CA	5.30	131.66	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	435	TYR	CG-CD2-CE2	-5.30	113.26	121.20
1	A	857	THR	CA-CB-OG1	5.29	117.54	109.60
1	Z	282	TRP	CD2-CE2-CZ2	-5.29	117.11	122.40
1	A	95	VAL	N-CA-C	-5.29	100.61	108.45
1	A	204	ALA	CB-CA-C	-5.29	102.72	109.92
1	V	598	ASP	CA-C-O	5.29	126.03	120.42
1	A	1040	SER	CA-C-N	5.29	128.28	120.82
1	A	1040	SER	C-N-CA	5.29	128.28	120.82
1	W	323	THR	N-CA-C	-5.29	101.14	109.50
1	Z	1295	LEU	CA-C-O	-5.29	112.91	120.16
2	C	268	ALA	CA-C-N	5.29	125.54	119.83
2	C	268	ALA	C-N-CA	5.29	125.54	119.83
1	V	494	GLU	CA-C-N	5.29	131.64	121.54
1	V	494	GLU	C-N-CA	5.29	131.64	121.54
1	V	1210	LEU	CA-C-O	-5.29	113.89	119.50
1	Z	176	GLU	O-C-N	-5.29	116.77	123.17
2	C	151	TYR	CA-C-N	5.29	130.72	122.26
2	C	151	TYR	C-N-CA	5.29	130.72	122.26
1	W	203	TYR	N-CA-CB	5.29	119.48	110.71
1	W	227	LEU	O-C-N	5.29	128.64	122.24
1	W	1108	VAL	N-CA-C	-5.29	100.83	108.87
1	W	1362	GLY	CA-C-N	5.29	129.64	122.19
1	W	1362	GLY	C-N-CA	5.29	129.64	122.19
1	Z	943	ALA	O-C-N	5.29	129.37	122.87
2	C	426	SER	N-CA-CB	5.28	117.89	110.12
1	W	801	LEU	CA-C-O	-5.28	114.73	119.59
1	W	571	VAL	CA-C-O	-5.28	112.87	119.95
1	Z	1144	LEU	CA-C-N	5.28	126.44	119.84
1	Z	1144	LEU	C-N-CA	5.28	126.44	119.84
1	A	295	TYR	CB-CG-CD2	-5.28	112.88	120.80
1	V	153	ILE	N-CA-C	5.28	117.06	109.51
1	W	352	PRO	N-CA-CB	5.28	108.25	103.34
1	Z	11	GLN	OE1-CD-NE2	-5.28	117.32	122.60
1	Z	713	ALA	CA-C-N	5.28	131.62	121.54
1	Z	713	ALA	C-N-CA	5.28	131.62	121.54
1	A	1010	GLN	N-CA-CB	5.28	119.41	110.49
1	V	613	TYR	N-CA-C	-5.28	99.35	108.69
1	V	97	PHE	O-C-N	5.28	129.61	122.59
1	W	577	GLY	CA-C-O	-5.28	116.72	121.47
2	X	182	VAL	CA-C-N	5.28	128.34	120.95
2	X	182	VAL	C-N-CA	5.28	128.34	120.95
2	B	170	GLY	N-CA-C	-5.28	106.43	115.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	394	ALA	N-CA-C	5.28	116.75	109.15
2	X	208	GLN	O-C-N	-5.28	117.55	123.04
2	X	379	LEU	CA-C-N	5.28	127.30	120.44
2	X	379	LEU	C-N-CA	5.28	127.30	120.44
2	C	177	LEU	O-C-N	-5.27	116.32	122.81
1	V	1119	TYR	CA-C-N	5.27	128.26	120.82
1	V	1119	TYR	C-N-CA	5.27	128.26	120.82
1	W	782	THR	N-CA-C	-5.27	106.80	113.18
1	A	240	ILE	CA-C-O	5.27	125.41	121.09
1	A	447	TYR	CB-CG-CD1	5.27	128.71	120.80
1	A	588	VAL	N-CA-CB	-5.27	103.83	111.21
1	A	1322	ALA	O-C-N	5.27	128.80	123.26
2	B	25	ALA	CB-CA-C	5.27	118.41	110.50
2	B	28	ILE	CA-C-O	-5.27	114.32	120.75
2	C	150	LEU	N-CA-C	-5.27	100.64	109.24
1	Z	355	TYR	CA-C-N	5.27	130.11	123.10
1	Z	355	TYR	C-N-CA	5.27	130.11	123.10
2	C	371	GLN	OE1-CD-NE2	-5.27	117.33	122.60
1	V	274	THR	N-CA-CB	5.27	117.70	109.85
1	V	599	PHE	N-CA-C	-5.27	106.88	113.15
1	Z	884	PRO	N-CA-CB	5.27	107.93	103.35
1	Z	1375	GLY	CA-C-N	5.27	130.14	121.87
1	Z	1375	GLY	C-N-CA	5.27	130.14	121.87
1	A	511	GLY	N-CA-C	-5.27	100.70	113.18
1	A	898	PRO	CA-C-O	-5.27	115.45	121.56
1	Z	1121	SER	N-CA-C	5.27	118.49	111.75
1	V	332	ILE	N-CA-CB	5.27	120.11	111.58
1	V	1177	SER	CA-C-N	5.26	127.28	120.44
1	V	1177	SER	C-N-CA	5.26	127.28	120.44
1	W	227	LEU	CA-C-O	-5.26	113.05	119.32
1	W	267	TYR	CB-CA-C	-5.26	101.98	110.77
1	Z	729	PRO	CA-C-O	-5.26	115.45	121.56
1	V	862	ASP	N-CA-C	-5.26	99.71	108.34
1	A	738	TYR	CB-CG-CD2	-5.26	112.91	120.80
1	V	50	VAL	CA-C-O	-5.26	114.79	120.47
1	Z	558	THR	N-CA-C	-5.26	101.58	109.95
1	A	98	LEU	CA-C-O	5.26	128.03	120.51
1	A	1077	VAL	O-C-N	-5.26	116.00	122.57
1	W	243	ARG	NH1-CZ-NH2	-5.26	112.47	119.30
1	A	240	ILE	O-C-N	-5.26	117.20	122.67
2	B	220	VAL	N-CA-C	-5.26	100.91	108.53
2	B	418	GLN	O-C-N	-5.26	116.16	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	629	GLY	O-C-N	-5.26	117.73	122.93
1	A	853	ASN	CA-C-O	5.25	127.00	121.33
1	A	1103	THR	N-CA-CB	5.25	118.15	110.58
1	V	686	ILE	N-CA-C	-5.25	100.88	108.87
1	A	1086	SER	CA-C-O	5.25	126.12	120.55
1	V	947	TYR	N-CA-C	-5.25	100.61	108.96
1	W	899	LEU	CA-C-N	5.25	127.32	120.28
1	W	899	LEU	C-N-CA	5.25	127.32	120.28
1	A	604	ASN	CA-CB-CG	-5.25	107.35	112.60
1	A	548	VAL	CB-CA-C	-5.25	103.79	110.98
1	Z	827	ASN	OD1-CG-ND2	5.25	127.85	122.60
1	A	352	PRO	N-CA-C	5.25	123.28	112.47
1	A	1014	ASN	N-CA-CB	5.25	119.35	110.49
1	W	44	ASN	OD1-CG-ND2	-5.24	117.36	122.60
1	Z	554	THR	N-CA-C	5.24	121.97	110.80
1	A	730	VAL	N-CA-C	-5.24	99.41	106.85
1	V	169	GLN	CA-C-N	5.24	128.28	120.31
1	V	169	GLN	C-N-CA	5.24	128.28	120.31
1	V	671	SER	CA-C-N	5.24	130.70	122.21
1	V	671	SER	C-N-CA	5.24	130.70	122.21
1	V	1162	GLN	CA-C-N	5.24	131.62	122.82
1	V	1162	GLN	C-N-CA	5.24	131.62	122.82
1	W	1227	ILE	N-CA-C	-5.24	100.93	108.48
1	A	504	ASN	CA-C-O	-5.24	115.12	120.99
1	A	974	GLN	N-CA-C	5.24	118.77	112.38
2	B	170	GLY	CA-C-N	5.24	129.69	123.19
2	B	170	GLY	C-N-CA	5.24	129.69	123.19
1	V	276	ASN	CA-CB-CG	5.24	117.84	112.60
1	V	640	PRO	N-CA-C	5.24	119.54	111.21
1	A	859	THR	CA-CB-CG2	5.24	119.40	110.50
1	W	1173	GLN	CA-CB-CG	5.24	124.57	114.10
1	Z	1308	TYR	N-CA-C	-5.24	100.77	108.99
1	A	208	PHE	CA-C-O	5.24	126.36	120.70
1	V	509	THR	O-C-N	-5.24	116.90	121.35
1	W	1249	THR	O-C-N	-5.24	115.30	121.32
2	X	358	ILE	N-CA-C	5.24	115.96	110.62
1	Z	1142	ASN	N-CA-CB	5.24	119.94	110.83
1	A	1229	THR	CA-C-N	5.23	129.02	122.48
1	A	1229	THR	C-N-CA	5.23	129.02	122.48
1	W	1158	THR	CA-C-O	5.23	126.13	120.32
1	A	382	LYS	N-CA-C	-5.23	100.77	108.99
1	V	1078	VAL	CA-C-O	5.23	127.32	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	1024	TYR	O-C-N	5.23	129.27	122.42
2	X	327	GLN	OE1-CD-NE2	5.23	127.83	122.60
1	Z	262	THR	CA-CB-OG1	-5.23	101.75	109.60
1	A	298	TYR	CA-C-N	5.23	128.19	120.82
1	A	298	TYR	C-N-CA	5.23	128.19	120.82
1	A	751	TYR	CA-C-O	-5.23	113.48	119.60
1	A	995	GLY	CA-C-N	-5.23	116.29	123.46
1	A	995	GLY	C-N-CA	-5.23	116.29	123.46
1	V	1170	THR	CA-C-O	-5.23	114.51	120.58
1	Z	1065	ILE	N-CA-C	-5.23	105.36	113.16
1	W	1186	TYR	CA-CB-CG	-5.23	104.49	113.90
1	A	363	TYR	N-CA-CB	5.23	119.67	110.37
1	A	566	LEU	N-CA-CB	5.23	121.20	110.64
2	B	392	THR	CA-C-N	5.23	127.28	120.28
2	B	392	THR	C-N-CA	5.23	127.28	120.28
2	C	108	LEU	CA-C-N	5.23	130.62	122.26
2	C	108	LEU	C-N-CA	5.23	130.62	122.26
1	V	1067	PHE	N-CA-CB	5.23	119.32	110.49
1	V	1282	PRO	O-C-N	5.23	129.53	122.37
1	A	305	GLU	N-CA-C	-5.23	101.47	109.41
1	W	1319	SER	O-C-N	5.23	127.33	121.32
1	Z	120	LEU	CA-C-O	-5.23	114.99	120.63
1	V	1380	SER	CA-CB-OG	5.22	121.55	111.10
2	X	125	VAL	N-CA-C	-5.22	101.89	108.05
1	A	330	PHE	CA-CB-CG	5.22	119.02	113.80
1	V	628	TYR	CA-C-N	5.22	131.65	121.41
1	V	628	TYR	C-N-CA	5.22	131.65	121.41
1	V	1015	SER	O-C-N	5.22	128.73	122.72
1	W	1247	ASN	CA-C-O	-5.22	115.15	120.89
2	X	361	LEU	CD1-CG-CD2	5.22	122.29	110.80
1	Z	1022	HIS	ND1-CE1-NE2	5.22	113.62	108.40
1	V	1339	GLY	N-CA-C	-5.22	100.81	113.18
2	C	174	PHE	CA-CB-CG	5.22	119.02	113.80
2	C	383	SER	O-C-N	5.22	127.65	122.12
1	V	1280	ILE	N-CA-C	-5.22	100.96	108.53
1	A	650	ASN	N-CA-C	-5.22	105.66	112.23
1	V	347	THR	CA-CB-OG1	5.22	117.43	109.60
1	W	1111	LEU	N-CA-CB	5.22	119.00	110.39
1	A	1241	VAL	O-C-N	-5.22	115.48	120.59
2	B	184	GLN	CG-CD-NE2	-5.22	108.58	116.40
1	W	784	SER	CA-C-N	5.22	126.36	119.84
1	W	784	SER	C-N-CA	5.22	126.36	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	930	LEU	CA-C-N	5.22	128.25	120.90
1	Z	930	LEU	C-N-CA	5.22	128.25	120.90
1	A	450	THR	CA-CB-OG1	5.21	117.42	109.60
1	A	869	PHE	N-CA-CB	5.21	119.30	110.49
1	W	127	ASP	CA-C-N	5.21	128.62	120.75
1	W	127	ASP	C-N-CA	5.21	128.62	120.75
1	Z	1130	ASN	CA-C-O	-5.21	115.53	121.68
1	V	754	ILE	CB-CA-C	-5.21	102.74	111.29
1	V	767	LEU	CA-C-N	5.21	130.42	122.65
1	V	767	LEU	C-N-CA	5.21	130.42	122.65
2	C	31	ILE	CA-C-O	5.21	126.79	120.85
2	C	309	GLN	CA-CB-CG	5.21	124.52	114.10
1	Z	1118	TYR	CG-CD2-CE2	-5.21	113.38	121.20
1	A	919	THR	N-CA-C	-5.21	100.82	108.79
1	V	138	SER	N-CA-C	5.21	117.05	110.33
1	W	359	LEU	CA-C-N	5.21	128.35	120.75
1	W	359	LEU	C-N-CA	5.21	128.35	120.75
1	W	919	THR	N-CA-C	-5.21	100.82	108.79
1	A	776	ALA	O-C-N	5.21	129.09	123.10
1	A	879	LYS	CA-CB-CG	5.21	124.51	114.10
1	W	1267	ALA	CB-CA-C	-5.21	105.75	110.44
1	Z	584	GLU	N-CA-C	5.21	116.88	108.34
1	V	456	PRO	O-C-N	-5.21	115.32	121.46
1	A	1079	LYS	CA-C-N	5.20	134.50	121.80
1	A	1079	LYS	C-N-CA	5.20	134.50	121.80
1	V	498	LEU	CA-C-N	5.20	133.00	124.31
1	V	498	LEU	C-N-CA	5.20	133.00	124.31
1	V	710	ASN	OD1-CG-ND2	-5.20	117.40	122.60
1	A	838	ASN	CA-C-O	5.20	125.01	119.34
1	W	861	THR	CA-C-O	-5.20	113.18	118.90
1	Z	850	VAL	N-CA-C	-5.20	100.26	107.80
1	W	693	PRO	N-CA-CB	5.20	107.80	103.17
1	W	701	SER	N-CA-C	-5.20	101.51	109.41
1	A	21	PRO	CA-C-N	5.20	131.47	121.54
1	A	21	PRO	C-N-CA	5.20	131.47	121.54
2	B	348	ASN	CA-CB-CG	5.20	117.80	112.60
1	V	134	THR	CA-CB-OG1	5.20	117.40	109.60
1	A	867	HIS	ND1-CE1-NE2	5.20	113.60	108.40
2	C	416	ALA	CA-C-N	5.20	127.24	120.28
2	C	416	ALA	C-N-CA	5.20	127.24	120.28
1	V	753	PHE	CA-CB-CG	5.20	119.00	113.80
1	V	1176	SER	O-C-N	-5.20	117.19	123.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	X	236	GLY	O-C-N	-5.20	115.95	122.70
1	Z	1290	TYR	CA-C-N	5.20	129.63	123.19
1	Z	1290	TYR	C-N-CA	5.20	129.63	123.19
1	Z	440	VAL	N-CA-C	-5.19	100.90	108.17
1	A	1382	TYR	N-CA-CB	5.19	119.61	110.37
1	V	757	VAL	CA-CB-CG1	-5.19	101.57	110.40
2	X	444	SER	CA-C-N	5.19	127.76	120.28
2	X	444	SER	C-N-CA	5.19	127.76	120.28
1	Z	699	ASN	CA-CB-CG	5.19	117.79	112.60
1	Z	1169	ASN	CB-CG-ND2	5.19	124.19	116.40
1	A	1228	ILE	O-C-N	-5.19	116.33	122.77
1	W	583	LEU	N-CA-C	-5.19	101.25	109.76
1	Z	1314	ASN	N-CA-C	-5.19	102.23	109.96
1	V	1077	VAL	CA-C-N	5.19	131.31	121.97
1	V	1077	VAL	C-N-CA	5.19	131.31	121.97
2	C	260	PHE	CA-C-N	5.19	129.55	122.34
2	C	260	PHE	C-N-CA	5.19	129.55	122.34
1	A	786	GLY	CA-C-N	5.19	130.22	121.14
1	A	786	GLY	C-N-CA	5.19	130.22	121.14
2	C	464	ILE	N-CA-C	-5.19	105.48	110.72
1	V	4	PRO	CB-CA-C	-5.19	105.11	111.64
1	W	791	LEU	N-CA-CB	5.19	120.52	111.19
1	Z	627	PHE	N-CA-CB	5.19	119.06	110.97
1	A	106	VAL	N-CA-C	-5.18	101.17	108.27
1	A	1132	TYR	CB-CG-CD1	-5.18	113.02	120.80
1	Z	1359	LEU	O-C-N	5.18	126.36	121.38
2	B	238	GLY	N-CA-C	-5.18	101.77	112.34
1	W	1359	LEU	CA-C-O	-5.18	114.94	120.28
2	X	183	THR	CA-C-O	5.18	126.77	120.81
1	Z	1069	PRO	CA-C-O	-5.18	113.05	120.56
1	A	504	ASN	O-C-N	5.18	129.18	123.33
2	B	372	ILE	CA-CB-CG2	5.18	119.30	110.50
2	C	405	GLY	CA-C-N	5.18	128.18	120.31
2	C	405	GLY	C-N-CA	5.18	128.18	120.31
1	W	631	VAL	N-CA-CB	5.18	118.86	111.82
1	W	1121	SER	N-CA-C	-5.18	105.64	112.94
1	Z	431	LYS	CA-C-O	5.18	127.25	121.40
1	V	467	THR	CA-C-N	-5.18	115.92	123.06
1	V	467	THR	C-N-CA	-5.18	115.92	123.06
1	V	950	PHE	CA-C-N	5.18	128.33	120.77
1	V	950	PHE	C-N-CA	5.18	128.33	120.77
1	V	1259	PRO	CA-C-O	-5.18	115.56	121.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	62	ALA	CA-C-O	5.17	125.54	119.28
1	V	243	ARG	NE-CZ-NH1	5.17	126.67	121.50
1	W	671	SER	CA-C-O	-5.17	115.69	121.23
1	W	931	TRP	CB-CG-CD1	5.17	134.66	126.90
1	W	1050	GLY	CA-C-O	-5.17	116.21	120.92
1	A	258	SER	CA-C-O	5.17	126.59	120.69
1	A	641	TYR	N-CA-C	-5.17	101.43	109.24
2	C	362	GLU	O-C-N	5.17	127.60	122.12
1	V	174	MET	CG-SD-CE	-5.17	89.52	100.90
1	A	1160	SER	N-CA-C	-5.17	99.79	110.80
1	W	264	GLN	OE1-CD-NE2	5.17	127.77	122.60
1	V	230	LEU	N-CA-CB	5.17	118.96	110.90
1	V	371	PRO	CA-C-O	-5.17	115.70	121.23
2	B	435	LEU	O-C-N	5.17	127.60	122.12
2	C	120	VAL	O-C-N	5.17	128.52	122.99
1	V	431	LYS	CB-CG-CD	5.17	123.18	111.30
1	V	1252	ARG	CD-NE-CZ	5.17	131.63	124.40
1	Z	544	GLU	CA-C-O	5.17	123.62	119.59
1	Z	985	LEU	CA-C-O	5.17	124.82	119.14
2	B	286	SER	N-CA-C	5.16	117.70	109.96
1	V	237	HIS	CA-CB-CG	5.16	118.96	113.80
1	V	915	SER	O-C-N	5.16	127.26	121.32
1	W	772	SER	O-C-N	-5.16	118.24	121.85
1	A	336	LYS	CA-C-N	-5.16	113.83	123.01
1	A	336	LYS	C-N-CA	-5.16	113.83	123.01
1	V	1340	ILE	CB-CA-C	5.16	117.86	111.15
1	W	1157	PHE	CA-CB-CG	-5.16	108.64	113.80
1	Z	166	TYR	CA-C-N	5.16	127.91	120.38
1	Z	166	TYR	C-N-CA	5.16	127.91	120.38
1	Z	1021	TYR	CA-C-O	5.16	127.05	121.06
1	W	38	SER	CA-C-O	-5.16	112.84	118.52
1	W	246	ILE	N-CA-C	-5.16	100.89	108.11
1	W	1039	LEU	N-CA-C	-5.16	99.81	110.80
1	Z	84	TYR	CA-C-N	5.16	129.20	121.72
1	Z	84	TYR	C-N-CA	5.16	129.20	121.72
1	Z	885	ASN	OD1-CG-ND2	-5.16	117.44	122.60
1	A	225	GLY	N-CA-C	-5.16	104.10	111.42
1	A	337	PHE	CA-CB-CG	-5.16	108.64	113.80
1	W	1134	GLN	N-CA-CB	5.16	118.64	110.55
1	A	1337	ALA	CA-C-O	5.15	125.03	119.15
1	V	1157	PHE	N-CA-C	-5.15	99.82	110.80
1	W	132	GLN	N-CA-C	-5.15	101.28	108.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	996	ILE	N-CA-CB	-5.15	106.40	112.32
1	V	516	ASN	N-CA-C	5.15	117.70	110.23
1	V	933	SER	N-CA-CB	5.15	119.27	110.05
2	X	172	ALA	N-CA-C	-5.15	100.64	109.24
2	X	221	VAL	CA-C-O	-5.15	116.43	121.58
1	Z	858	TYR	N-CA-C	-5.15	102.66	110.28
1	A	599	PHE	CA-CB-CG	5.15	118.95	113.80
2	C	374	THR	CA-C-N	5.15	127.18	120.28
2	C	374	THR	C-N-CA	5.15	127.18	120.28
1	V	855	LYS	N-CA-C	-5.15	101.48	109.72
1	W	501	TYR	N-CA-CB	5.15	118.78	110.85
1	W	877	VAL	N-CA-C	-5.15	101.55	108.35
1	Z	881	VAL	CA-CB-CG2	-5.15	101.64	110.40
1	V	54	GLN	CA-C-O	-5.15	115.44	121.46
1	A	1112	GLY	O-C-N	5.15	128.10	123.42
1	Z	416	GLY	O-C-N	5.15	130.31	122.69
1	Z	1051	VAL	N-CA-C	-5.15	101.07	108.48
1	A	55	ILE	N-CA-C	-5.15	100.47	108.81
1	W	160	LEU	N-CA-C	-5.15	105.75	111.36
1	Z	293	PHE	CA-C-N	5.15	130.01	122.39
1	Z	293	PHE	C-N-CA	5.15	130.01	122.39
1	Z	840	LEU	N-CA-C	-5.15	100.70	108.52
1	A	217	LEU	N-CA-CB	5.14	121.10	111.53
1	A	619	LYS	CA-C-O	-5.14	114.80	120.36
1	A	982	GLY	N-CA-C	-5.14	100.99	113.18
1	A	1078	VAL	CA-C-N	5.14	131.37	121.54
1	A	1078	VAL	C-N-CA	5.14	131.37	121.54
1	W	1360	PRO	CB-CA-C	-5.14	103.07	111.56
2	X	132	THR	CA-CB-CG2	5.14	119.25	110.50
1	A	539	PHE	N-CA-C	-5.14	100.07	108.76
2	X	27	THR	O-C-N	-5.14	115.75	122.43
1	A	382	LYS	O-C-N	-5.14	117.52	123.33
1	A	1189	GLY	CA-C-N	5.14	131.35	121.54
1	A	1189	GLY	C-N-CA	5.14	131.35	121.54
2	B	52	ILE	CA-C-N	5.14	130.81	122.07
2	B	52	ILE	C-N-CA	5.14	130.81	122.07
1	V	243	ARG	CA-C-N	5.14	128.15	120.90
1	V	243	ARG	C-N-CA	5.14	128.15	120.90
1	W	485	LEU	N-CA-C	-5.14	101.50	109.72
1	Z	733	THR	CA-C-N	5.14	131.48	121.41
1	Z	733	THR	C-N-CA	5.14	131.48	121.41
2	B	218	PRO	O-C-N	5.14	129.57	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	964	VAL	CA-CB-CG2	-5.14	101.67	110.40
1	Z	12	ALA	CA-C-O	-5.14	115.36	121.16
1	Z	1296	PRO	N-CA-CB	5.14	107.81	103.19
2	B	123	GLN	CA-C-N	5.13	132.33	121.91
2	B	123	GLN	C-N-CA	5.13	132.33	121.91
2	B	174	PHE	N-CA-C	-5.13	100.53	108.90
1	W	886	VAL	N-CA-CB	5.13	119.22	112.60
2	C	366	ASN	CB-CA-C	-5.13	102.12	110.85
1	V	1070	PRO	CA-C-O	-5.13	115.72	122.19
1	V	754	ILE	CA-C-N	5.13	131.34	121.54
1	V	754	ILE	C-N-CA	5.13	131.34	121.54
1	W	1169	ASN	CA-CB-CG	-5.13	107.47	112.60
1	Z	34	ASN	CA-CB-CG	5.13	117.73	112.60
1	Z	816	THR	CA-CB-OG1	5.13	117.30	109.60
1	W	906	LEU	N-CA-C	-5.13	100.09	108.76
1	W	542	SER	N-CA-C	-5.13	103.63	110.55
1	W	632	ILE	CA-C-N	5.13	125.66	120.38
1	W	632	ILE	C-N-CA	5.13	125.66	120.38
1	W	665	ASP	N-CA-CB	5.13	119.50	110.37
1	W	1372	PRO	N-CA-C	-5.13	104.00	111.33
2	X	247	TYR	O-C-N	5.13	129.07	123.22
1	Z	501	TYR	N-CA-C	-5.13	101.61	109.41
1	Z	1268	PRO	N-CA-C	5.13	119.29	111.34
1	A	379	SER	N-CA-C	-5.13	106.71	113.17
2	B	44	TYR	O-C-N	5.13	129.42	122.96
2	B	441	LYS	CA-CB-CG	5.13	124.35	114.10
1	Z	186	PHE	N-CA-C	-5.13	101.11	108.60
1	A	1208	PHE	CB-CG-CD2	5.12	129.41	120.70
1	A	198	VAL	CA-C-N	5.12	126.24	119.84
1	A	198	VAL	C-N-CA	5.12	126.24	119.84
2	B	420	LYS	O-C-N	-5.12	116.69	122.12
1	V	48	THR	CA-C-N	5.12	127.01	120.56
1	V	48	THR	C-N-CA	5.12	127.01	120.56
1	V	883	VAL	CA-C-N	5.12	126.24	119.84
1	V	883	VAL	C-N-CA	5.12	126.24	119.84
1	V	1353	LEU	CA-C-O	-5.12	114.64	120.32
1	Z	116	TYR	N-CA-C	-5.12	108.06	114.56
1	Z	1194	VAL	N-CA-CB	5.12	117.40	112.28
2	B	108	LEU	CA-C-O	5.12	126.52	120.69
1	V	1253	LEU	N-CA-C	-5.12	100.56	108.90
1	A	347	THR	N-CA-C	-5.12	100.68	108.76
2	C	94	SER	O-C-N	-5.12	115.79	122.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	393	LEU	N-CA-CB	5.12	117.73	110.16
1	Z	1388	PHE	CA-CB-CG	-5.12	108.69	113.80
1	A	266	ASN	CA-CB-CG	5.11	117.71	112.60
1	A	625	GLY	O-C-N	-5.11	117.57	122.84
1	A	727	PHE	CB-CA-C	-5.11	102.95	110.06
1	W	72	THR	CA-C-O	5.11	126.57	120.28
1	W	643	TYR	N-CA-CB	5.11	117.73	110.16
1	Z	1371	VAL	CA-C-N	5.11	125.11	119.89
1	Z	1371	VAL	C-N-CA	5.11	125.11	119.89
1	V	831	GLY	CA-C-N	5.11	130.27	122.65
1	V	831	GLY	C-N-CA	5.11	130.27	122.65
1	A	1139	LEU	CB-CA-C	-5.11	101.67	110.16
1	V	1340	ILE	N-CA-CB	-5.11	104.96	110.53
1	W	641	TYR	CB-CG-CD2	5.11	128.47	120.80
1	W	1094	ASN	CA-C-N	5.11	126.23	119.84
1	W	1094	ASN	C-N-CA	5.11	126.23	119.84
1	Z	72	THR	CA-C-N	5.11	130.46	123.46
1	Z	72	THR	C-N-CA	5.11	130.46	123.46
1	A	237	HIS	O-C-N	-5.11	115.44	121.32
1	A	82	ALA	N-CA-C	-5.11	100.09	108.41
1	W	109	PRO	O-C-N	5.11	129.21	123.03
1	W	844	VAL	CA-C-N	5.11	125.83	120.11
1	W	844	VAL	C-N-CA	5.11	125.83	120.11
1	Z	1194	VAL	CB-CA-C	-5.11	107.50	113.22
2	C	218	PRO	N-CA-C	5.11	118.89	111.03
1	V	1136	VAL	CB-CA-C	-5.11	105.65	110.65
1	W	399	THR	CA-CB-OG1	5.11	117.26	109.60
1	A	214	GLN	OE1-CD-NE2	5.10	127.70	122.60
1	A	1196	ASN	CB-CA-C	-5.10	103.65	111.66
1	W	445	SER	CA-C-O	-5.10	115.26	120.87
1	W	1020	THR	O-C-N	-5.10	116.96	123.24
1	W	1336	PRO	CB-CA-C	-5.10	103.14	111.56
1	W	1363	LYS	CB-CG-CD	5.10	123.04	111.30
1	Z	1023	ASP	CA-CB-CG	5.10	117.70	112.60
1	W	1148	THR	CA-C-O	-5.10	115.30	120.71
1	Z	676	SER	CA-C-O	5.10	126.70	120.99
2	B	70	ASN	CA-C-N	5.10	131.15	121.97
2	B	70	ASN	C-N-CA	5.10	131.15	121.97
2	B	306	GLU	CA-C-O	-5.10	115.96	121.87
1	V	1156	THR	CA-CB-OG1	5.10	117.25	109.60
1	V	1364	TYR	O-C-N	-5.10	117.14	123.36
1	Z	20	ALA	CA-C-O	-5.10	115.07	120.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	817	TYR	CB-CG-CD2	-5.10	113.15	120.80
1	A	141	PHE	CA-CB-CG	-5.10	108.70	113.80
1	V	333	ASN	CA-CB-CG	5.10	117.70	112.60
1	A	100	PRO	CA-C-N	-5.09	115.92	123.05
1	A	100	PRO	C-N-CA	-5.09	115.92	123.05
1	A	323	THR	CA-C-N	-5.09	116.47	123.14
1	A	323	THR	C-N-CA	-5.09	116.47	123.14
2	C	466	ALA	O-C-N	5.09	127.52	122.12
1	W	644	GLN	CA-CB-CG	-5.09	103.91	114.10
2	C	113	THR	CA-C-O	5.09	124.65	119.05
1	A	865	VAL	CA-C-N	5.09	127.52	120.29
1	A	865	VAL	C-N-CA	5.09	127.52	120.29
2	C	128	THR	CA-CB-OG1	5.09	117.24	109.60
1	W	79	GLY	N-CA-C	-5.09	107.78	115.32
1	W	889	ASN	O-C-N	5.09	128.87	123.42
1	Z	512	TYR	CB-CG-CD1	5.09	128.44	120.80
1	A	375	THR	N-CA-C	-5.09	101.42	109.76
2	C	306	GLU	CA-C-N	5.09	130.76	122.67
2	C	306	GLU	C-N-CA	5.09	130.76	122.67
1	W	286	ILE	O-C-N	-5.09	116.73	121.87
1	W	889	ASN	CB-CG-ND2	5.09	124.03	116.40
2	B	121	ASN	N-CA-CB	5.09	118.02	110.49
2	B	298	ASN	N-CA-CB	5.09	117.68	110.46
1	V	1076	ASN	CB-CG-ND2	-5.09	108.77	116.40
1	V	1185	VAL	O-C-N	5.09	128.75	123.26
1	A	125	PRO	O-C-N	-5.09	117.00	123.10
1	A	1064	ASN	CA-C-N	5.09	128.51	120.47
1	A	1064	ASN	C-N-CA	5.09	128.51	120.47
1	V	213	TYR	N-CA-CB	5.09	118.58	110.65
1	V	901	GLN	CA-C-N	-5.09	114.50	122.49
1	V	901	GLN	C-N-CA	-5.09	114.50	122.49
1	V	956	VAL	CA-CB-CG1	-5.09	101.75	110.40
1	W	333	ASN	CA-CB-CG	-5.09	107.51	112.60
1	W	1103	THR	N-CA-C	-5.09	103.43	110.35
2	X	276	TYR	CA-C-O	-5.09	114.97	120.87
1	Z	1014	ASN	N-CA-CB	5.09	118.08	109.94
1	Z	1382	TYR	O-C-N	-5.09	115.47	121.32
2	C	388	SER	N-CA-C	5.08	116.82	111.28
1	V	427	GLN	N-CA-C	5.08	117.06	109.59
1	Z	960	ASN	CA-CB-CG	5.08	117.69	112.60
1	Z	1059	TYR	CA-CB-CG	-5.08	104.75	113.90
1	A	855	LYS	N-CA-CB	5.08	120.62	111.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	356	GLN	N-CA-CB	5.08	117.59	110.12
1	V	404	TRP	CA-C-N	5.08	131.25	121.54
1	V	404	TRP	C-N-CA	5.08	131.25	121.54
1	V	529	TYR	N-CA-C	-5.08	100.95	109.24
1	W	410	THR	CA-CB-OG1	-5.08	101.97	109.60
1	W	586	PHE	CA-C-N	5.08	128.56	121.24
1	W	586	PHE	C-N-CA	5.08	128.56	121.24
1	W	913	TYR	CA-C-N	5.08	131.37	121.41
1	W	913	TYR	C-N-CA	5.08	131.37	121.41
2	B	287	VAL	CA-C-N	5.08	127.89	120.98
2	B	287	VAL	C-N-CA	5.08	127.89	120.98
1	V	401	THR	CA-C-O	-5.08	115.72	121.66
1	W	240	ILE	CA-CB-CG1	5.08	119.04	110.40
1	W	1033	THR	N-CA-C	-5.08	100.62	108.90
1	W	1102	SER	CA-C-N	5.08	128.42	120.75
1	W	1102	SER	C-N-CA	5.08	128.42	120.75
2	X	224	ALA	CA-C-N	5.08	126.19	119.84
2	X	224	ALA	C-N-CA	5.08	126.19	119.84
1	Z	101	TYR	O-C-N	-5.08	115.84	122.39
1	V	882	SER	O-C-N	-5.08	118.43	123.46
2	X	375	LEU	N-CA-C	5.08	116.82	111.28
1	Z	448	TYR	N-CA-C	5.08	116.76	108.63
1	V	35	ILE	N-CA-C	-5.08	100.93	108.45
1	W	617	ASN	OD1-CG-ND2	5.08	127.68	122.60
1	W	723	GLN	N-CA-C	-5.08	102.04	109.81
1	W	972	ASN	N-CA-CB	5.08	117.89	110.88
1	W	1168	ASN	O-C-N	-5.08	117.16	123.36
1	A	127	ASP	O-C-N	-5.08	116.69	122.68
1	A	983	GLN	CA-C-O	5.08	127.83	121.89
1	V	307	PHE	CA-C-O	5.08	126.74	121.36
1	W	663	VAL	N-CA-C	-5.08	102.19	108.89
1	A	823	THR	N-CA-C	-5.08	100.97	109.24
1	V	1225	THR	N-CA-C	-5.08	100.07	108.75
1	W	560	ALA	CA-C-N	5.08	126.91	120.51
1	W	560	ALA	C-N-CA	5.08	126.91	120.51
1	W	796	GLN	CB-CG-CD	-5.07	103.98	112.60
1	W	1111	LEU	N-CA-C	-5.07	98.31	107.75
1	Z	740	SER	CB-CA-C	-5.07	102.32	110.74
1	Z	1360	PRO	CA-C-N	5.07	128.87	121.31
1	Z	1360	PRO	C-N-CA	5.07	128.87	121.31
2	B	63	TYR	CG-CD1-CE1	-5.07	113.59	121.20
2	B	389	LEU	CA-C-O	-5.07	115.17	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	536	VAL	N-CA-C	5.07	115.42	108.12
1	W	581	LEU	CD1-CG-CD2	5.07	121.96	110.80
1	Z	413	ILE	CA-CB-CG1	5.07	119.02	110.40
1	V	247	ASN	CA-C-N	5.07	130.15	123.00
1	V	247	ASN	C-N-CA	5.07	130.15	123.00
1	W	506	ILE	N-CA-C	-5.07	101.17	108.42
1	W	1170	THR	CA-C-N	5.07	130.20	121.63
1	W	1170	THR	C-N-CA	5.07	130.20	121.63
2	B	109	SER	CB-CA-C	5.07	119.74	111.23
2	C	395	SER	CA-C-O	-5.07	115.50	120.82
1	W	1050	GLY	N-CA-C	-5.07	102.18	111.25
2	X	28	ILE	CA-C-N	5.07	131.22	121.54
2	X	28	ILE	C-N-CA	5.07	131.22	121.54
1	Z	854	ILE	CA-C-O	-5.07	116.20	120.96
1	A	721	THR	CA-CB-OG1	5.07	117.20	109.60
1	A	1371	VAL	CA-C-N	5.07	124.98	119.76
1	A	1371	VAL	C-N-CA	5.07	124.98	119.76
2	B	397	ASN	OD1-CG-ND2	-5.07	117.53	122.60
1	W	514	ALA	N-CA-CB	5.07	119.05	110.49
1	A	1175	PRO	N-CA-C	5.06	122.90	112.47
2	X	450	TYR	CB-CG-CD1	5.06	128.40	120.80
1	A	631	VAL	N-CA-C	-5.06	100.92	108.46
2	C	236	GLY	CA-C-O	5.06	126.50	121.29
1	W	608	VAL	CA-C-N	5.06	129.06	121.72
1	W	608	VAL	C-N-CA	5.06	129.06	121.72
1	V	1308	TYR	N-CA-C	-5.06	101.05	108.79
1	Z	1313	PHE	CA-C-N	5.06	128.51	121.02
1	Z	1313	PHE	C-N-CA	5.06	128.51	121.02
1	A	110	LEU	O-C-N	-5.06	114.90	122.39
1	V	1113	GLY	N-CA-C	-5.06	103.19	110.38
1	W	175	GLN	CA-C-N	5.06	130.19	122.65
1	W	175	GLN	C-N-CA	5.06	130.19	122.65
1	Z	422	THR	N-CA-CB	5.06	118.54	110.65
1	A	152	GLN	OE1-CD-NE2	-5.06	117.54	122.60
1	A	460	ILE	N-CA-C	-5.06	101.20	108.48
1	V	1156	THR	CA-C-N	5.06	131.20	121.54
1	V	1156	THR	C-N-CA	5.06	131.20	121.54
1	W	1167	PRO	O-C-N	5.06	129.28	123.01
2	X	186	PHE	CD1-CG-CD2	-5.06	111.02	118.60
1	Z	1306	PHE	N-CA-C	-5.06	99.56	108.20
1	A	1333	ARG	N-CA-CB	5.05	117.86	110.58
1	V	1033	THR	CA-C-N	5.05	130.87	121.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	1033	THR	C-N-CA	5.05	130.87	121.62
1	V	1335	TYR	CA-C-N	5.05	125.29	119.83
1	V	1335	TYR	C-N-CA	5.05	125.29	119.83
1	W	593	TYR	O-C-N	-5.05	114.82	122.20
1	Z	859	THR	CA-C-N	5.05	127.89	120.71
1	Z	859	THR	C-N-CA	5.05	127.89	120.71
2	B	323	THR	N-CA-C	-5.05	102.98	110.46
2	B	427	SER	CA-C-O	-5.05	115.19	120.55
1	Z	20	ALA	O-C-N	5.05	126.17	121.27
2	C	167	ASN	CA-CB-CG	-5.05	107.55	112.60
1	W	170	ALA	N-CA-CB	5.05	118.78	110.39
1	W	884	PRO	N-CA-C	-5.05	103.60	111.13
2	X	418	GLN	CA-C-O	-5.05	115.52	120.82
1	Z	1356	ILE	N-CA-C	-5.05	107.37	112.17
1	A	495	ASN	O-C-N	-5.05	117.45	123.11
1	A	1170	THR	CA-C-N	5.05	127.27	120.50
1	A	1170	THR	C-N-CA	5.05	127.27	120.50
1	V	1330	SER	N-CA-CB	5.05	118.52	110.84
2	C	255	LEU	N-CA-CB	5.05	117.63	110.46
2	C	466	ALA	CA-C-O	-5.05	115.20	120.55
1	V	1285	GLN	OE1-CD-NE2	5.05	127.65	122.60
2	X	276	TYR	CB-CG-CD1	-5.05	113.23	120.80
1	V	363	TYR	N-CA-C	-5.05	103.59	108.13
1	W	1096	SER	CA-C-O	5.05	124.84	119.34
2	X	58	ALA	N-CA-CB	5.05	117.77	109.95
1	Z	1079	LYS	N-CA-CB	5.05	119.02	110.49
1	V	669	SER	N-CA-C	-5.04	106.42	112.58
1	W	649	PRO	N-CA-CB	5.04	106.41	102.73
1	A	971	SER	N-CA-CB	-5.04	102.42	109.94
1	A	1212	PHE	CA-CB-CG	5.04	118.84	113.80
1	V	1045	VAL	N-CA-C	-5.04	100.39	107.75
1	W	358	LYS	N-CA-C	5.04	121.54	110.80
1	W	569	PRO	CA-C-N	5.04	127.87	120.71
1	W	569	PRO	C-N-CA	5.04	127.87	120.71
1	W	789	TYR	CB-CG-CD2	-5.04	113.23	120.80
1	W	902	LEU	N-CA-C	-5.04	105.85	112.41
1	Z	430	LEU	N-CA-C	5.04	117.92	110.46
1	Z	959	SER	O-C-N	-5.04	116.32	122.22
1	A	1355	GLY	N-CA-C	-5.04	101.23	113.18
2	C	111	GLN	N-CA-CB	5.04	117.90	110.49
1	V	906	LEU	N-CA-C	-5.04	100.24	108.76
1	W	384	THR	N-CA-C	-5.04	101.93	109.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	57	ALA	N-CA-CB	5.04	118.64	110.32
1	W	139	THR	CA-C-N	5.04	125.19	119.90
1	W	139	THR	C-N-CA	5.04	125.19	119.90
2	B	118	ALA	O-C-N	-5.04	117.24	123.44
2	B	274	VAL	N-CA-CB	5.04	117.41	111.66
1	V	1053	GLU	CA-C-N	5.04	127.03	120.28
1	V	1053	GLU	C-N-CA	5.04	127.03	120.28
1	Z	1026	THR	N-CA-C	-5.04	107.52	113.97
1	V	287	ASN	CA-CB-CG	5.04	117.64	112.60
1	W	545	PRO	CA-C-O	-5.04	115.84	122.19
1	Z	812	ASN	N-CA-CB	5.04	120.12	111.00
1	A	21	PRO	N-CA-C	-5.04	109.44	114.68
1	A	107	ASN	OD1-CG-ND2	5.04	127.64	122.60
2	C	183	THR	CB-CA-C	5.04	119.89	111.83
1	V	549	MET	O-C-N	5.04	129.22	123.48
1	W	436	GLU	CA-C-O	-5.04	114.49	120.43
1	Z	648	CYS	CB-CA-C	5.04	115.97	108.87
1	V	1233	GLY	CA-C-N	5.03	129.30	121.35
1	V	1233	GLY	C-N-CA	5.03	129.30	121.35
1	W	487	THR	CA-CB-OG1	5.03	117.15	109.60
1	Z	1069	PRO	CB-CA-C	5.03	117.06	110.92
1	W	283	ILE	N-CA-C	-5.03	99.70	106.85
1	Z	878	PHE	CB-CA-C	5.03	117.97	110.62
1	Z	1175	PRO	CA-C-N	5.03	127.92	120.82
1	Z	1175	PRO	C-N-CA	5.03	127.92	120.82
1	A	1268	PRO	N-CA-C	-5.03	103.28	111.68
2	B	257	GLN	CG-CD-NE2	5.03	123.94	116.40
1	W	581	LEU	O-C-N	5.03	129.43	123.24
2	X	432	SER	CA-C-N	5.03	125.52	119.94
2	X	432	SER	C-N-CA	5.03	125.52	119.94
1	Z	956	VAL	N-CA-CB	5.03	119.53	111.23
1	Z	760	MET	CA-C-N	5.03	124.93	119.85
1	Z	760	MET	C-N-CA	5.03	124.93	119.85
1	W	1361	ALA	N-CA-C	-5.03	101.77	109.41
1	Z	325	ASN	O-C-N	-5.03	116.39	121.27
2	B	222	THR	CA-CB-CG2	5.03	119.04	110.50
1	W	1036	LEU	CA-C-N	5.03	129.25	121.71
1	W	1036	LEU	C-N-CA	5.03	129.25	121.71
1	Z	504	ASN	CA-C-N	-5.03	114.12	121.26
1	Z	504	ASN	C-N-CA	-5.03	114.12	121.26
1	Z	1194	VAL	CA-C-O	-5.03	118.26	122.63
1	A	854	ILE	CA-C-O	-5.02	115.04	120.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	53	GLN	OE1-CD-NE2	-5.02	117.58	122.60
1	V	471	GLN	CG-CD-NE2	-5.02	108.86	116.40
1	Z	1114	LYS	CB-CG-CD	5.02	122.85	111.30
1	A	371	PRO	O-C-N	5.02	128.98	122.85
1	A	1096	SER	CA-C-O	5.02	127.69	120.51
1	V	805	ALA	CB-CA-C	-5.02	102.93	110.16
1	W	1029	THR	CA-C-O	-5.02	114.80	120.43
1	A	883	VAL	CB-CA-C	5.02	115.00	110.13
1	W	1180	LYS	CA-C-O	-5.02	113.33	120.51
1	W	1296	PRO	O-C-N	5.02	128.97	122.85
2	X	335	MET	O-C-N	-5.02	117.33	123.30
1	Z	1116	SER	N-CA-C	-5.02	101.44	109.07
1	V	86	SER	N-CA-CB	5.02	118.34	110.46
1	W	613	TYR	CB-CG-CD1	5.02	128.33	120.80
1	Z	439	ASN	N-CA-C	-5.02	100.34	108.52
1	Z	954	ILE	CA-CB-CG1	5.02	118.93	110.40
1	A	403	ASN	CA-C-N	-5.02	114.44	121.72
1	A	403	ASN	C-N-CA	-5.02	114.44	121.72
1	A	1016	ILE	N-CA-CB	-5.02	106.60	111.57
1	V	1329	TYR	CA-C-O	5.02	127.31	121.44
1	W	515	ILE	CA-CB-CG1	5.02	118.93	110.40
1	W	1174	ILE	CA-C-N	5.02	126.11	119.84
1	W	1174	ILE	C-N-CA	5.02	126.11	119.84
2	X	377	SER	CA-C-N	5.02	126.96	120.44
2	X	377	SER	C-N-CA	5.02	126.96	120.44
1	V	1354	GLN	CA-C-O	-5.02	114.91	120.33
1	W	663	VAL	CB-CA-C	-5.02	104.63	111.15
1	A	394	ALA	N-CA-C	5.01	117.50	110.23
2	C	38	PRO	N-CA-C	-5.01	102.38	110.55
1	V	26	VAL	N-CA-C	-5.01	101.13	108.85
1	V	856	LEU	N-CA-C	-5.01	100.12	108.34
1	W	435	TYR	N-CA-C	-5.01	101.67	109.24
2	X	463	ALA	CA-C-N	5.01	126.98	120.56
2	X	463	ALA	C-N-CA	5.01	126.98	120.56
2	B	397	ASN	CA-C-O	-5.01	115.11	120.42
1	V	1302	GLN	N-CA-C	-5.01	102.37	110.14
1	V	183	LEU	CA-C-O	-5.01	115.00	120.36
1	V	368	ASN	CA-CB-CG	-5.01	107.59	112.60
1	V	490	THR	CA-C-O	-5.01	114.12	120.28
1	V	509	THR	CB-CA-C	5.01	116.75	109.08
1	W	521	MET	N-CA-C	-5.01	99.13	107.80
2	X	463	ALA	CB-CA-C	-5.01	102.33	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	206	PHE	CA-CB-CG	-5.01	108.79	113.80
1	Z	31	ASN	CA-CB-CG	5.01	117.61	112.60
1	Z	162	SER	O-C-N	-5.01	116.81	122.12
1	Z	989	ASN	CB-CG-ND2	-5.01	108.89	116.40
1	Z	94	VAL	N-CA-C	-5.01	100.70	108.86
2	C	66	ASP	O-C-N	-5.01	115.45	121.31
1	Z	206	PHE	CB-CG-CD2	5.01	129.21	120.70
2	B	42	TYR	N-CA-C	-5.00	102.11	110.17
1	V	736	THR	N-CA-C	-5.00	107.17	113.28
2	B	349	LYS	CB-CA-C	-5.00	102.35	110.85
1	W	553	LEU	N-CA-CB	5.00	117.81	110.35
1	Z	608	VAL	CA-C-N	5.00	130.45	122.94
1	Z	608	VAL	C-N-CA	5.00	130.45	122.94
1	A	784	SER	N-CA-C	5.00	116.81	109.71
1	A	1041	THR	CA-C-N	5.00	129.63	122.23
1	A	1041	THR	C-N-CA	5.00	129.63	122.23
2	B	104	TYR	N-CA-C	-5.00	103.08	110.48
1	Z	881	VAL	O-C-N	-5.00	117.78	123.03

There are no chirality outliers.

All (226) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1081	PRO	Peptide
1	A	1101	LEU	Peptide
1	A	1118	TYR	Sidechain
1	A	112	TYR	Sidechain
1	A	1143	VAL	Peptide
1	A	1200	TYR	Sidechain
1	A	1215	TYR	Sidechain
1	A	1247	ASN	Peptide
1	A	1252	ARG	Sidechain
1	A	1272	TYR	Sidechain
1	A	1274	TYR	Sidechain
1	A	1290	TYR	Sidechain
1	A	1373	PHE	Peptide
1	A	138	SER	Peptide
1	A	1381	GLU	Peptide
1	A	1388	PHE	Sidechain
1	A	171	ASN	Peptide
1	A	198	VAL	Peptide
1	A	236	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	A	241	TRP	Peptide
1	A	244	ALA	Peptide
1	A	253	THR	Peptide
1	A	330	PHE	Sidechain
1	A	338	TYR	Sidechain
1	A	340	TYR	Sidechain
1	A	383	TYR	Sidechain
1	A	448	TYR	Sidechain
1	A	501	TYR	Sidechain
1	A	512	TYR	Sidechain
1	A	55	ILE	Peptide
1	A	551	ASN	Peptide
1	A	603	GLY	Peptide
1	A	626	TYR	Sidechain
1	A	643	TYR	Sidechain
1	A	692	PHE	Sidechain
1	A	698	TYR	Sidechain
1	A	715	VAL	Peptide
1	A	738	TYR	Sidechain
1	A	742	TYR	Sidechain
1	A	75	PHE	Sidechain
1	A	752	TYR	Sidechain
1	A	753	PHE	Sidechain
1	A	756	THR	Peptide
1	A	775	SER	Peptide
1	A	785	PRO	Peptide
1	A	809	TYR	Sidechain
1	A	814	TYR	Sidechain
1	A	817	TYR	Sidechain
1	A	828	MET	Peptide
1	A	835	ALA	Peptide
1	A	84	TYR	Sidechain
1	A	842	TYR	Sidechain
1	A	858	TYR	Sidechain
1	A	869	PHE	Sidechain
1	A	907	TYR	Sidechain
1	A	927	GLY	Peptide
1	A	947	TYR	Sidechain
1	A	97	PHE	Sidechain
1	A	991	THR	Peptide
1	A	997	SER	Peptide
2	B	151	TYR	Sidechain

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Mol	Chain	Res	Type	Group
2	B	179	PHE	Sidechain
2	B	186	PHE	Sidechain
2	B	227	TYR	Sidechain
2	B	28	ILE	Peptide
2	B	311	TYR	Sidechain
2	B	321	TYR	Sidechain
2	B	42	TYR	Sidechain
2	B	44	TYR	Sidechain
2	B	471	TYR	Sidechain
2	B	472	ARG	Sidechain
2	C	101	VAL	Peptide
2	C	104	TYR	Sidechain
2	C	151	TYR	Sidechain
2	C	186	PHE	Sidechain
2	C	311	TYR	Sidechain
2	C	321	TYR	Sidechain
2	C	471	TYR	Sidechain
2	C	63	TYR	Sidechain
1	V	1024	TYR	Sidechain
1	V	1059	TYR	Sidechain
1	V	1061	TYR	Sidechain
1	V	1085	TYR	Sidechain
1	V	1119	TYR	Sidechain
1	V	116	TYR	Sidechain
1	V	1281	THR	Peptide
1	V	1306	PHE	Sidechain
1	V	1308	TYR	Sidechain
1	V	1326	TYR	Sidechain
1	V	1382	TYR	Sidechain
1	V	1388	PHE	Sidechain
1	V	208	PHE	Sidechain
1	V	213	TYR	Sidechain
1	V	235	TYR	Sidechain
1	V	267	TYR	Sidechain
1	V	383	TYR	Sidechain
1	V	409	TYR	Sidechain
1	V	424	TYR	Sidechain
1	V	599	PHE	Sidechain
1	V	626	TYR	Sidechain
1	V	643	TYR	Sidechain
1	V	652	TYR	Sidechain
1	V	677	LEU	Peptide

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Mol	Chain	Res	Type	Group
1	V	681	TYR	Sidechain
1	V	709	PHE	Sidechain
1	V	720	TYR	Sidechain
1	V	733	THR	Peptide
1	V	738	TYR	Sidechain
1	V	74	ARG	Sidechain
1	V	751	TYR	Sidechain
1	V	787	PHE	Peptide
1	V	789	TYR	Sidechain
1	V	809	TYR	Sidechain
1	V	83	TYR	Sidechain
1	V	835	ALA	Peptide
1	V	842	TYR	Sidechain
1	V	858	TYR	Sidechain
1	V	947	TYR	Sidechain
1	V	99	TYR	Sidechain
1	W	1021	TYR	Sidechain
1	W	1074	ALA	Peptide
1	W	1076	ASN	Peptide
1	W	1118	TYR	Sidechain
1	W	1187	THR	Peptide
1	W	1208	PHE	Sidechain
1	W	1252	ARG	Sidechain
1	W	1277	SER	Peptide
1	W	1290	TYR	Sidechain
1	W	1329	TYR	Sidechain
1	W	1335	TYR	Sidechain
1	W	1364	TYR	Sidechain
1	W	1380	SER	Peptide
1	W	1381	GLU	Peptide
1	W	1388	PHE	Sidechain
1	W	166	TYR	Sidechain
1	W	200	VAL	Peptide
1	W	203	TYR	Sidechain
1	W	236	TYR	Sidechain
1	W	293	PHE	Sidechain
1	W	304	TYR	Sidechain
1	W	307	PHE	Sidechain
1	W	340	TYR	Sidechain
1	W	404	TRP	Peptide
1	W	405	TYR	Sidechain,Peptide
1	W	493	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	W	503	PHE	Sidechain
1	W	512	TYR	Sidechain
1	W	529	TYR	Sidechain
1	W	535	TYR	Sidechain
1	W	539	PHE	Sidechain
1	W	627	PHE	Sidechain
1	W	628	TYR	Sidechain
1	W	641	TYR	Sidechain
1	W	652	TYR	Sidechain
1	W	667	TYR	Sidechain
1	W	789	TYR	Sidechain
1	W	80	TYR	Sidechain
1	W	817	TYR	Sidechain
1	W	836	SER	Peptide
1	W	84	TYR	Sidechain
1	W	875	TYR	Sidechain
1	W	892	PHE	Sidechain
1	W	907	TYR	Sidechain
1	W	913	TYR	Sidechain
1	W	936	TYR	Sidechain
2	X	104	TYR	Sidechain
2	X	151	TYR	Sidechain
2	X	186	PHE	Sidechain
2	X	276	TYR	Sidechain
2	X	293	TYR	Sidechain
2	X	333	TYR	Sidechain
2	X	471	TYR	Sidechain
1	Z	1021	TYR	Sidechain
1	Z	1030	LEU	Peptide
1	Z	1061	TYR	Sidechain
1	Z	1073	ILE	Peptide
1	Z	1076	ASN	Peptide
1	Z	1078	VAL	Peptide
1	Z	1118	TYR	Sidechain
1	Z	112	TYR	Sidechain
1	Z	1167	PRO	Peptide
1	Z	1187	THR	Peptide
1	Z	1200	TYR	Sidechain
1	Z	1248	PHE	Sidechain
1	Z	1272	TYR	Sidechain
1	Z	13	TYR	Sidechain
1	Z	1327	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	Z	1335	TYR	Sidechain
1	Z	1350	TYR	Sidechain
1	Z	146	ASP	Sidechain
1	Z	2	THR	Peptide
1	Z	203	TYR	Sidechain
1	Z	213	TYR	Sidechain
1	Z	243	ARG	Sidechain
1	Z	254	TYR	Sidechain
1	Z	295	TYR	Sidechain
1	Z	298	TYR	Sidechain
1	Z	327	SER	Peptide
1	Z	383	TYR	Sidechain
1	Z	4	PRO	Peptide
1	Z	409	TYR	Sidechain
1	Z	440	VAL	Peptide
1	Z	447	TYR	Sidechain
1	Z	458	SER	Peptide
1	Z	544	GLU	Peptide
1	Z	613	TYR	Sidechain
1	Z	641	TYR	Sidechain
1	Z	643	TYR	Sidechain
1	Z	667	TYR	Sidechain
1	Z	680	LYS	Peptide
1	Z	704	PHE	Sidechain
1	Z	738	TYR	Sidechain
1	Z	742	TYR	Sidechain
1	Z	751	TYR	Sidechain
1	Z	752	TYR	Sidechain
1	Z	753	PHE	Sidechain
1	Z	756	THR	Peptide
1	Z	778	LEU	Peptide
1	Z	79	GLY	Mainchain
1	Z	814	TYR	Sidechain
1	Z	835	ALA	Peptide
1	Z	858	TYR	Sidechain
1	Z	876	LYS	Peptide
1	Z	877	VAL	Peptide
1	Z	912	TYR	Sidechain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	10478	0	10402	47	0
1	V	10478	0	10402	30	0
1	W	10478	0	10402	42	0
1	Z	10478	0	10402	52	0
2	B	3312	0	3388	9	0
2	C	3312	0	3388	15	0
2	X	3312	0	3388	17	0
All	All	51848	0	51772	206	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 2.

All (206) 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:V:255:ALA:HB2	1:V:617:ASN:HD21	1.59	0.66
2:C:344:GLN:H	2:C:344:GLN:HE21	1.43	0.65
1:V:1215:TYR:CD1	1:V:1371:VAL:HG13	2.33	0.64
2:X:288:ILE:HD12	2:X:296:MET:HB2	1.80	0.63
1:V:1010:GLN:HE22	1:V:1039:LEU:HD23	1.62	0.63
2:C:233:THR:HG21	2:X:310:ASN:HB2	1.79	0.62
1:A:342:LEU:HD22	1:A:390:ILE:HG23	1.81	0.62
1:V:1303:ILE:HD13	1:V:1370:ALA:HA	1.81	0.61
2:X:223:ILE:HD12	2:X:258:VAL:HG22	1.84	0.60
1:A:269:VAL:HG11	1:A:273:LEU:HD21	1.84	0.58
1:Z:245:LEU:HD13	1:Z:451:ALA:HB1	1.85	0.58
1:A:683:ASN:HD22	1:A:683:ASN:H	1.49	0.58
1:A:269:VAL:HG12	1:A:270:PRO:O	2.03	0.58
2:B:244:ILE:HD12	2:B:245:VAL:H	1.69	0.58
1:V:1017:LEU:HD21	1:V:1019:VAL:HG23	1.85	0.58
1:W:1188:ASN:HD22	1:W:1220:ILE:HA	1.70	0.57
1:A:918:PRO:HA	1:Z:210:ASN:HD22	1.70	0.56
1:V:244:ALA:HA	1:V:664:LEU:HA	1.88	0.56
1:Z:1260:ALA:HB2	1:Z:1290:TYR:CD1	2.40	0.56
1:Z:179:VAL:H	1:Z:202:LEU:HD21	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:523:TYR:CE1	1:Z:581:LEU:HD11	2.42	0.55
1:W:813:ILE:HG23	1:W:854:ILE:HD12	1.88	0.55
2:C:36:PRO:HB2	2:C:120:VAL:HG11	1.90	0.54
1:Z:1101:LEU:HD13	1:Z:1102:SER:H	1.70	0.54
1:W:1251:ILE:H	1:W:1380:SER:H	1.55	0.54
2:C:230:GLN:HE22	2:C:246:VAL:HB	1.73	0.54
1:Z:1188:ASN:HD21	1:Z:1206:GLY:H	1.57	0.53
1:A:11:GLN:HE22	1:A:198:VAL:H	1.54	0.53
2:X:221:VAL:HG13	2:X:331:THR:HB	1.90	0.53
1:A:910:GLU:HG2	1:A:913:TYR:HB2	1.90	0.53
1:W:1207:LEU:HA	1:W:1219:ALA:HB3	1.91	0.52
1:Z:24:GLY:HA3	1:Z:98:LEU:HD22	1.92	0.52
2:B:103:THR:CG2	2:B:121:ASN:HB3	2.40	0.52
1:W:428:ILE:HD11	1:W:486:LEU:HD22	1.92	0.52
1:W:1088:LEU:HD12	1:W:1088:LEU:H	1.74	0.52
1:V:1332:VAL:HG13	1:V:1349:VAL:HG11	1.91	0.52
1:W:1207:LEU:HD12	1:W:1207:LEU:H	1.73	0.52
1:Z:795:ALA:HA	1:Z:806:THR:HG23	1.92	0.51
1:A:894:SER:HB2	1:Z:233:GLU:HB3	1.91	0.51
1:Z:202:LEU:H	1:Z:202:LEU:HD23	1.76	0.51
1:W:1253:LEU:HD23	1:W:1386:LEU:HB3	1.92	0.51
2:C:36:PRO:CB	2:C:120:VAL:HG11	2.41	0.51
1:Z:1074:ALA:HB2	1:Z:1210:LEU:HD21	1.92	0.51
1:A:588:VAL:HG13	1:A:589:PRO:HD2	1.92	0.51
1:Z:660:PRO:HA	1:Z:807:PRO:HG2	1.91	0.51
2:X:108:LEU:HB3	2:X:110:VAL:HG23	1.92	0.51
1:W:82:ALA:HA	1:W:93:VAL:HG12	1.93	0.50
1:Z:546:MET:HB2	1:Z:553:LEU:HD11	1.93	0.50
1:V:1253:LEU:HD22	1:V:1370:ALA:HB2	1.93	0.50
1:Z:583:LEU:HD11	1:Z:585:PHE:CZ	2.47	0.50
1:W:288:ASN:HD21	1:W:502:SER:HB2	1.74	0.50
1:Z:304:TYR:CD1	1:Z:354:GLU:HG2	2.47	0.50
1:W:952:LYS:H	1:W:1021:TYR:HA	1.76	0.50
1:W:1212:PHE:HB2	1:W:1219:ALA:HB1	1.94	0.49
2:B:65:TYR:CE1	2:B:71:VAL:HG13	2.47	0.49
1:V:924:GLY:HA2	1:V:973:MET:HB2	1.94	0.49
1:A:1284:GLN:OE1	1:A:1284:GLN:HA	2.12	0.49
1:V:349:SER:HB3	1:V:351:THR:H	1.77	0.49
2:X:235:ILE:HD11	2:X:246:VAL:HG12	1.93	0.49
1:Z:952:LYS:O	1:Z:968:LEU:HD11	2.13	0.49
1:A:923:LEU:HD11	1:A:994:PHE:CE1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:1254:ALA:HB3	1:W:1260:ALA:HA	1.95	0.49
1:Z:356:VAL:HA	1:Z:553:LEU:HB3	1.94	0.49
1:V:424:TYR:CE1	1:V:489:ALA:HB2	2.48	0.49
1:A:816:THR:HG21	1:A:819:ILE:HD11	1.94	0.49
1:V:498:LEU:HD23	1:V:529:TYR:CD2	2.47	0.49
1:Z:99:TYR:CD2	1:Z:100:PRO:HA	2.47	0.48
1:W:608:VAL:HG21	1:W:627:PHE:CE1	2.48	0.48
2:C:36:PRO:HG3	2:C:48:LEU:HD11	1.96	0.48
2:X:177:LEU:HD23	2:X:177:LEU:H	1.79	0.48
1:W:179:VAL:H	1:W:201:ILE:CD1	2.27	0.48
1:A:1081:PRO:HB3	1:A:1106:ILE:HA	1.95	0.48
1:Z:302:ASN:OD1	1:Z:548:VAL:HG12	2.14	0.48
1:A:392:GLY:H	1:A:398:ILE:HD12	1.78	0.48
1:A:501:TYR:CE2	1:A:528:LEU:HD13	2.49	0.48
1:A:844:VAL:HG21	1:A:852:SER:HB3	1.95	0.48
1:V:844:VAL:HG11	1:V:852:SER:CB	2.44	0.47
1:A:50:VAL:HA	1:A:53:ILE:HG22	1.97	0.47
1:A:832:LEU:HD12	1:A:833:TYR:H	1.79	0.47
1:Z:831:GLY:H	1:Z:843:VAL:HB	1.78	0.47
1:Z:921:ILE:HA	1:Z:931:TRP:HA	1.96	0.47
2:C:228:VAL:HG22	2:C:254:ILE:HG23	1.95	0.47
1:Z:755:GLN:NE2	1:Z:755:GLN:HA	2.30	0.47
1:A:949:GLY:HA3	1:A:1023:ASP:HA	1.97	0.47
1:W:206:PHE:CE1	1:W:612:ALA:HB1	2.50	0.47
1:A:510:PRO:HD3	1:A:585:PHE:CZ	2.49	0.47
2:C:178:SER:HB3	2:C:207:GLN:HE22	1.80	0.46
1:Z:1168:ASN:H	1:Z:1189:GLY:HA2	1.79	0.46
2:X:192:LEU:HD23	2:X:216:LEU:CD1	2.46	0.46
1:V:108:ILE:N	1:V:108:ILE:HD12	2.31	0.46
1:W:727:PHE:CE2	1:W:829:ILE:HD12	2.51	0.46
2:X:31:ILE:HG12	2:X:110:VAL:HG21	1.98	0.46
2:B:458:ILE:O	2:B:462:VAL:HG23	2.15	0.46
2:X:287:VAL:O	2:X:289:THR:HG23	2.15	0.46
1:A:1361:ALA:HB2	1:A:1395:GLN:H	1.80	0.46
1:W:797:VAL:H	1:W:798:PRO:HD3	1.81	0.46
1:A:976:LEU:HA	1:Z:271:GLY:H	1.80	0.45
1:Z:42:VAL:HA	1:Z:45:VAL:HG22	1.97	0.45
1:A:42:VAL:HG22	1:A:46:ILE:HD13	1.98	0.45
1:V:245:LEU:HB3	1:V:451:ALA:HB1	1.98	0.45
1:Z:10:ILE:HD11	1:Z:28:PHE:HB3	1.97	0.45
1:A:1154:ASN:HD21	1:A:1156:THR:HB	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:280:LEU:HD12	1:A:300:PHE:CE2	2.51	0.45
2:C:255:LEU:HB3	2:C:288:ILE:HD11	1.99	0.45
1:V:1270:LEU:HA	1:V:1384:ALA:HB3	1.99	0.45
1:V:1213:VAL:HB	1:V:1379:LEU:H	1.82	0.45
2:C:50:LEU:CB	2:C:89:ILE:HD11	2.47	0.45
1:W:1098:ILE:N	1:W:1098:ILE:HD12	2.31	0.45
1:W:1285:GLN:HB2	1:W:1394:THR:H	1.82	0.45
1:Z:280:LEU:HD11	1:Z:304:TYR:CD2	2.52	0.45
1:V:435:TYR:CD1	1:V:686:ILE:HG21	2.52	0.45
1:W:1071:TRP:CZ3	1:W:1222:ALA:HB3	2.52	0.45
1:Z:188:LEU:C	1:Z:190:GLY:H	2.24	0.45
2:B:258:VAL:HG11	2:B:268:ALA:HB3	1.99	0.45
1:V:1313:PHE:CD2	1:V:1365:VAL:HG11	2.51	0.45
1:V:361:VAL:HG12	1:V:524:VAL:HG11	1.99	0.44
1:A:159:VAL:H	1:A:159:VAL:HG23	1.53	0.44
1:A:322:LEU:HD22	1:A:348:ASN:HB3	1.98	0.44
2:C:50:LEU:HB3	2:C:89:ILE:HD11	1.99	0.44
2:X:136:VAL:HG22	2:X:137:ASN:H	1.83	0.44
1:W:98:LEU:HD21	1:W:202:LEU:HD13	2.00	0.44
1:Z:726:PRO:HG3	1:Z:827:ASN:HB3	1.98	0.44
1:A:1193:ILE:HB	1:A:1202:LEU:HD11	1.98	0.44
1:A:1257:GLN:HG2	1:W:1234:VAL:HG11	2.00	0.44
1:A:1344:VAL:HG12	1:A:1346:ASN:H	1.81	0.44
1:A:1050:GLY:HA3	1:A:1081:PRO:HG2	2.00	0.44
1:Z:645:ASN:HA	1:Z:651:ASN:HB3	2.00	0.44
1:A:645:ASN:HA	1:A:651:ASN:HB2	1.99	0.43
1:V:886:VAL:O	1:V:1026:THR:HG21	2.18	0.43
2:X:149:GLN:HG2	2:X:163:THR:HG23	1.99	0.43
1:A:1213:VAL:HG21	1:A:1372:PRO:HG3	2.00	0.43
2:X:223:ILE:HD13	2:X:317:ILE:CG2	2.49	0.43
2:X:310:ASN:HD22	2:X:340:ASN:HA	1.83	0.43
1:Z:486:LEU:CD1	1:Z:508:VAL:HG11	2.48	0.43
1:W:245:LEU:HB3	1:W:451:ALA:HB1	1.99	0.43
1:W:778:LEU:HA	1:W:779:PRO:C	2.43	0.43
1:W:591:THR:HG22	1:W:591:THR:O	2.18	0.43
1:Z:108:ILE:HD11	1:Z:138:SER:HB3	2.01	0.43
1:Z:108:ILE:HD13	1:Z:136:VAL:HG12	2.00	0.43
2:X:221:VAL:HG12	2:X:329:LEU:HD23	2.01	0.43
1:A:1062:THR:HG21	1:A:1068:ALA:HA	2.00	0.43
1:A:1099:LEU:H	1:A:1149:GLU:HB2	1.83	0.43
1:W:636:ILE:HG22	1:W:877:VAL:HB	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:797:VAL:H	1:W:798:PRO:CD	2.32	0.43
1:Z:430:LEU:HD23	1:Z:464:GLY:HA3	2.00	0.43
1:A:835:ALA:HB1	1:A:939:PHE:CD1	2.54	0.43
1:Z:250:LEU:C	1:Z:250:LEU:HD23	2.43	0.43
1:A:1222:ALA:CA	1:A:1247:ASN:HD22	2.32	0.42
1:V:1048:GLY:O	1:V:1049:ALA:HB2	2.20	0.42
1:Z:984:GLU:HG2	1:Z:991:THR:H	1.84	0.42
1:A:816:THR:HG21	1:A:819:ILE:CD1	2.49	0.42
1:Z:911:PRO:HA	1:Z:990:GLY:H	1.84	0.42
2:B:465:VAL:HA	2:B:468:VAL:HG22	2.00	0.42
1:W:1277:SER:HA	1:W:1390:ASN:HB3	2.01	0.42
1:Z:899:LEU:HD12	1:Z:1010:GLN:HB3	2.02	0.42
1:A:27:LEU:HD13	1:A:113:LEU:HG	2.02	0.42
1:Z:245:LEU:HD21	1:Z:664:LEU:HD12	2.02	0.42
1:Z:1369:SER:O	1:Z:1371:VAL:HG23	2.20	0.42
1:A:801:LEU:HD23	1:A:801:LEU:HA	1.93	0.42
1:A:1334:ALA:HB1	1:A:1347:LEU:HD11	2.02	0.42
2:B:204:ILE:O	2:B:204:ILE:HG13	2.19	0.42
1:Z:245:LEU:HD13	1:Z:451:ALA:CB	2.49	0.42
1:V:1313:PHE:CE2	1:V:1365:VAL:HG11	2.55	0.42
1:W:247:ASN:HA	1:W:451:ALA:HA	2.01	0.42
1:Z:77:THR:H	1:Z:145:ILE:HD12	1.85	0.42
1:Z:1066:THR:O	1:Z:1067:PHE:CB	2.67	0.42
2:C:219:ALA:HB1	2:C:261:ALA:HB2	2.01	0.41
1:A:857:THR:HA	1:A:878:PHE:HA	2.02	0.41
1:V:707:SER:HA	1:V:709:PHE:CE1	2.55	0.41
1:V:829:ILE:HG22	1:V:843:VAL:HG21	2.02	0.41
1:Z:429:LEU:N	1:Z:429:LEU:HD22	2.36	0.41
1:Z:1188:ASN:ND2	1:Z:1206:GLY:H	2.17	0.41
2:X:164:GLN:HG2	2:X:173:THR:H	1.85	0.41
1:Z:430:LEU:HA	1:Z:464:GLY:HA3	2.01	0.41
2:B:50:LEU:HD23	2:B:85:LEU:HD21	2.02	0.41
1:W:648:CYS:HB2	1:W:650:ASN:HD21	1.84	0.41
1:W:674:THR:CG2	1:W:689:ALA:HB1	2.51	0.41
1:Z:233:GLU:H	1:Z:233:GLU:CD	2.27	0.41
1:A:900:TYR:HB2	1:A:1093:THR:HG21	2.02	0.41
1:W:1366:ILE:HD12	1:W:1391:VAL:HG11	2.02	0.41
1:Z:1058:ALA:HA	1:Z:1163:PHE:CD1	2.55	0.41
1:A:399:THR:HA	1:A:412:GLN:HA	2.02	0.41
2:C:255:LEU:HD22	2:C:288:ILE:CD1	2.51	0.41
2:C:446:THR:HA	2:C:449:VAL:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:840:LEU:HD23	1:V:840:LEU:HA	1.79	0.41
1:V:1185:VAL:HG21	1:V:1220:ILE:HG12	2.03	0.41
1:Z:644:GLN:HA	1:Z:647:ILE:CD1	2.50	0.41
1:A:1020:THR:HG22	1:A:1021:TYR:N	2.36	0.41
2:C:61:THR:HG21	1:W:1322:ALA:HA	2.03	0.41
1:W:958:LEU:HD21	1:W:1005:LEU:HD22	2.02	0.41
2:X:150:LEU:HD13	2:X:174:PHE:CD2	2.56	0.41
1:A:1330:SER:HB3	1:A:1352:GLN:H	1.86	0.41
1:V:844:VAL:HG11	1:V:852:SER:HB2	2.02	0.41
1:Z:487:THR:HG22	1:Z:487:THR:O	2.21	0.41
1:A:262:THR:HG22	1:A:263:PHE:H	1.86	0.40
1:W:614:ASP:HB2	1:W:619:LYS:H	1.85	0.40
1:W:746:ASN:HD21	1:W:786:GLY:HA2	1.86	0.40
1:W:1257:GLN:CD	1:W:1257:GLN:H	2.29	0.40
1:W:1251:ILE:HD13	1:W:1301:PHE:CZ	2.56	0.40
1:V:1191:LEU:HD22	1:V:1208:PHE:CG	2.56	0.40
1:W:1005:LEU:HD13	1:W:1013:ASN:HD21	1.87	0.40
1:W:1304:GLN:HA	1:W:1329:TYR:HB3	2.03	0.40
1:Z:1061:TYR:CD1	1:Z:1065:ILE:HD13	2.56	0.40
1:V:664:LEU:HD13	1:V:750:ASN:ND2	2.37	0.40
1:W:1016:ILE:HG23	1:W:1017:LEU:N	2.37	0.40
2:B:223:ILE:HD12	2:B:258:VAL:HG22	2.01	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1189/1212 (98%)	1103 (93%)	86 (7%)	13	35
1	V	1189/1212 (98%)	1122 (94%)	67 (6%)	19	40
1	W	1189/1212 (98%)	1110 (93%)	79 (7%)	15	37
1	Z	1189/1212 (98%)	1124 (94%)	65 (6%)	19	41
2	B	386/407 (95%)	358 (93%)	28 (7%)	13	34
2	C	386/407 (95%)	363 (94%)	23 (6%)	17	39
2	X	386/407 (95%)	371 (96%)	15 (4%)	28	49
All	All	5914/6069 (97%)	5551 (94%)	363 (6%)	19	38

All (363) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	2	THR
1	A	4	PRO
1	A	11	GLN
1	A	29	VAL
1	A	41	ASN
1	A	43	THR
1	A	46	ILE
1	A	59	THR
1	A	64	THR
1	A	68	THR
1	A	94	VAL
1	A	106	VAL
1	A	113	LEU
1	A	168	THR
1	A	184	THR
1	A	187	THR
1	A	213	TYR
1	A	241	TRP
1	A	262	THR
1	A	274	THR
1	A	317	LEU
1	A	322	LEU
1	A	327	SER
1	A	330	PHE
1	A	348	ASN
1	A	350	THR
1	A	377	THR
1	A	384	THR
1	A	412	GLN

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Mol	Chain	Res	Type
1	A	413	ILE
1	A	440	VAL
1	A	442	THR
1	A	447	TYR
1	A	463	THR
1	A	471	GLN
1	A	485	LEU
1	A	506	ILE
1	A	516	ASN
1	A	518	THR
1	A	532	THR
1	A	591	THR
1	A	596	LEU
1	A	679	LEU
1	A	683	ASN
1	A	730	VAL
1	A	754	ILE
1	A	756	THR
1	A	758	ASN
1	A	782	THR
1	A	788	MET
1	A	790	LEU
1	A	814	TYR
1	A	819	ILE
1	A	853	ASN
1	A	855	LYS
1	A	861	THR
1	A	875	TYR
1	A	925	THR
1	A	948	LEU
1	A	950	PHE
1	A	964	VAL
1	A	974	GLN
1	A	998	ILE
1	A	1014	ASN
1	A	1030	LEU
1	A	1034	THR
1	A	1089	GLN
1	A	1138	THR
1	A	1148	THR
1	A	1164	THR
1	A	1168	ASN

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Mol	Chain	Res	Type
1	A	1176	SER
1	A	1187	THR
1	A	1212	PHE
1	A	1225	THR
1	A	1244	THR
1	A	1266	ASN
1	A	1271	LYS
1	A	1282	PRO
1	A	1283	GLN
1	A	1288	LYS
1	A	1340	ILE
1	A	1356	ILE
1	A	1371	VAL
1	A	1389	THR
1	A	1391	VAL
2	B	28	ILE
2	B	70	ASN
2	B	91	THR
2	B	95	THR
2	B	105	THR
2	B	114	THR
2	B	122	VAL
2	B	134	THR
2	B	150	LEU
2	B	176	VAL
2	B	183	THR
2	B	185	THR
2	B	202	VAL
2	B	207	GLN
2	B	266	THR
2	B	280	THR
2	B	283	VAL
2	B	328	THR
2	B	334	LEU
2	B	337	VAL
2	B	349	LYS
2	B	367	ASN
2	B	372	ILE
2	B	429	THR
2	B	431	LEU
2	B	457	ILE
2	B	464	ILE

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Mol	Chain	Res	Type
2	B	474	ILE
2	C	41	THR
2	C	80	ASN
2	C	99	THR
2	C	134	THR
2	C	147	THR
2	C	150	LEU
2	C	173	THR
2	C	174	PHE
2	C	175	THR
2	C	182	VAL
2	C	193	GLN
2	C	233	THR
2	C	244	ILE
2	C	258	VAL
2	C	288	ILE
2	C	305	THR
2	C	344	GLN
2	C	347	VAL
2	C	374	THR
2	C	393	LEU
2	C	399	THR
2	C	414	LEU
2	C	449	VAL
1	V	1	LEU
1	V	2	THR
1	V	10	ILE
1	V	27	LEU
1	V	104	THR
1	V	139	THR
1	V	154	LEU
1	V	166	TYR
1	V	187	THR
1	V	201	ILE
1	V	202	LEU
1	V	236	TYR
1	V	241	TRP
1	V	249	THR
1	V	318	THR
1	V	329	ASN
1	V	335	LYS
1	V	371	PRO

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Mol	Chain	Res	Type
1	V	374	VAL
1	V	378	THR
1	V	420	THR
1	V	442	THR
1	V	468	ILE
1	V	492	THR
1	V	570	SER
1	V	589	PRO
1	V	653	VAL
1	V	655	VAL
1	V	661	ASP
1	V	673	THR
1	V	683	ASN
1	V	703	VAL
1	V	716	THR
1	V	736	THR
1	V	739	LEU
1	V	746	ASN
1	V	755	GLN
1	V	757	VAL
1	V	769	ILE
1	V	817	TYR
1	V	839	THR
1	V	845	PRO
1	V	846	ASN
1	V	849	PHE
1	V	859	THR
1	V	877	VAL
1	V	897	THR
1	V	916	PRO
1	V	956	VAL
1	V	991	THR
1	V	999	THR
1	V	1034	THR
1	V	1041	THR
1	V	1054	PHE
1	V	1062	THR
1	V	1079	LYS
1	V	1083	MET
1	V	1085	TYR
1	V	1147	LEU
1	V	1150	LEU

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Mol	Chain	Res	Type
1	V	1173	GLN
1	V	1178	LEU
1	V	1215	TYR
1	V	1252	ARG
1	V	1301	PHE
1	V	1386	LEU
1	V	1389	THR
1	W	11	GLN
1	W	14	LEU
1	W	43	THR
1	W	94	VAL
1	W	121	LEU
1	W	122	THR
1	W	128	GLU
1	W	134	THR
1	W	152	GLN
1	W	161	THR
1	W	182	THR
1	W	199	PRO
1	W	200	VAL
1	W	201	ILE
1	W	202	LEU
1	W	241	TRP
1	W	249	THR
1	W	279	GLN
1	W	293	PHE
1	W	294	THR
1	W	359	LEU
1	W	361	VAL
1	W	367	THR
1	W	378	THR
1	W	393	PRO
1	W	399	THR
1	W	412	GLN
1	W	413	ILE
1	W	440	VAL
1	W	475	THR
1	W	478	SER
1	W	496	ILE
1	W	499	THR
1	W	508	VAL
1	W	556	VAL

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Mol	Chain	Res	Type
1	W	557	THR
1	W	558	THR
1	W	567	LEU
1	W	582	GLN
1	W	605	LEU
1	W	624	LEU
1	W	643	TYR
1	W	650	ASN
1	W	679	LEU
1	W	686	ILE
1	W	716	THR
1	W	719	THR
1	W	762	VAL
1	W	785	PRO
1	W	812	ASN
1	W	823	THR
1	W	824	VAL
1	W	866	LEU
1	W	896	THR
1	W	901	GLN
1	W	956	VAL
1	W	991	THR
1	W	1001	LEU
1	W	1023	ASP
1	W	1051	VAL
1	W	1056	LEU
1	W	1062	THR
1	W	1065	ILE
1	W	1078	VAL
1	W	1084	THR
1	W	1098	ILE
1	W	1122	THR
1	W	1165	ILE
1	W	1179	THR
1	W	1196	ASN
1	W	1257	GLN
1	W	1259	PRO
1	W	1278	ILE
1	W	1287	LEU
1	W	1317	THR
1	W	1325	VAL
1	W	1332	VAL

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Mol	Chain	Res	Type
1	W	1342	THR
1	W	1385	GLN
2	X	32	THR
2	X	104	TYR
2	X	113	THR
2	X	114	THR
2	X	154	THR
2	X	173	THR
2	X	208	GLN
2	X	220	VAL
2	X	222	THR
2	X	229	ILE
2	X	233	THR
2	X	254	ILE
2	X	299	ILE
2	X	360	ASN
2	X	387	THR
1	Z	55	ILE
1	Z	100	PRO
1	Z	103	THR
1	Z	149	THR
1	Z	160	LEU
1	Z	161	THR
1	Z	233	GLU
1	Z	240	ILE
1	Z	241	TRP
1	Z	248	THR
1	Z	270	PRO
1	Z	293	PHE
1	Z	296	LEU
1	Z	302	ASN
1	Z	323	THR
1	Z	324	ILE
1	Z	332	ILE
1	Z	348	ASN
1	Z	354	GLU
1	Z	399	THR
1	Z	406	SER
1	Z	429	LEU
1	Z	433	VAL
1	Z	455	THR
1	Z	462	ILE

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Mol	Chain	Res	Type
1	Z	515	ILE
1	Z	532	THR
1	Z	589	PRO
1	Z	590	SER
1	Z	591	THR
1	Z	626	TYR
1	Z	640	PRO
1	Z	648	CYS
1	Z	657	ILE
1	Z	679	LEU
1	Z	791	LEU
1	Z	806	THR
1	Z	813	ILE
1	Z	817	TYR
1	Z	839	THR
1	Z	844	VAL
1	Z	877	VAL
1	Z	937	VAL
1	Z	956	VAL
1	Z	969	THR
1	Z	970	THR
1	Z	1019	VAL
1	Z	1020	THR
1	Z	1066	THR
1	Z	1101	LEU
1	Z	1108	VAL
1	Z	1114	LYS
1	Z	1129	THR
1	Z	1138	THR
1	Z	1156	THR
1	Z	1180	LYS
1	Z	1181	THR
1	Z	1193	ILE
1	Z	1229	THR
1	Z	1244	THR
1	Z	1263	PRO
1	Z	1270	LEU
1	Z	1286	VAL
1	Z	1340	ILE
1	Z	1350	TYR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (183) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	11	GLN
1	A	41	ASN
1	A	151	GLN
1	A	152	GLN
1	A	171	ASN
1	A	175	GLN
1	A	214	GLN
1	A	224	ASN
1	A	226	ASN
1	A	276	ASN
1	A	329	ASN
1	A	333	ASN
1	A	368	ASN
1	A	427	GLN
1	A	471	GLN
1	A	484	ASN
1	A	516	ASN
1	A	547	GLN
1	A	618	ASN
1	A	683	ASN
1	A	746	ASN
1	A	808	ASN
1	A	827	ASN
1	A	874	GLN
1	A	889	ASN
1	A	935	ASN
1	A	979	GLN
1	A	983	GLN
1	A	1006	ASN
1	A	1010	GLN
1	A	1014	ASN
1	A	1080	GLN
1	A	1094	ASN
1	A	1154	ASN
1	A	1169	ASN
1	A	1196	ASN
1	A	1261	GLN
1	A	1302	GLN
1	A	1385	GLN
1	A	1395	GLN
2	B	29	ASN
2	B	53	GLN
2	B	70	ASN

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Mol	Chain	Res	Type
2	B	75	ASN
2	B	207	GLN
2	B	209	ASN
2	B	314	GLN
2	B	369	GLN
2	B	371	GLN
2	B	390	GLN
2	B	391	ASN
2	B	413	GLN
2	B	418	GLN
2	B	434	GLN
2	B	439	GLN
2	C	55	GLN
2	C	74	ASN
2	C	78	GLN
2	C	207	GLN
2	C	208	GLN
2	C	281	GLN
2	C	342	ASN
2	C	344	GLN
2	C	348	ASN
2	C	425	ASN
2	C	434	GLN
2	C	439	GLN
2	C	443	ASN
1	V	11	GLN
1	V	41	ASN
1	V	52	ASN
1	V	54	GLN
1	V	81	ASN
1	V	107	ASN
1	V	151	GLN
1	V	157	ASN
1	V	214	GLN
1	V	237	HIS
1	V	247	ASN
1	V	264	GLN
1	V	287	ASN
1	V	372	GLN
1	V	427	GLN
1	V	471	GLN
1	V	516	ASN

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Mol	Chain	Res	Type
1	V	617	ASN
1	V	645	ASN
1	V	810	ASN
1	V	827	ASN
1	V	846	ASN
1	V	853	ASN
1	V	867	HIS
1	V	889	ASN
1	V	1010	GLN
1	V	1089	GLN
1	V	1105	ASN
1	V	1120	ASN
1	V	1173	GLN
1	V	1283	GLN
1	V	1314	ASN
1	V	1352	GLN
1	W	11	GLN
1	W	52	ASN
1	W	152	GLN
1	W	219	ASN
1	W	264	GLN
1	W	279	GLN
1	W	288	ASN
1	W	348	ASN
1	W	427	GLN
1	W	471	GLN
1	W	495	ASN
1	W	500	GLN
1	W	552	ASN
1	W	582	GLN
1	W	708	ASN
1	W	710	ASN
1	W	737	ASN
1	W	746	ASN
1	W	755	GLN
1	W	812	ASN
1	W	837	GLN
1	W	846	ASN
1	W	853	ASN
1	W	889	ASN
1	W	932	ASN
1	W	1006	ASN

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Mol	Chain	Res	Type
1	W	1013	ASN
1	W	1014	ASN
1	W	1022	HIS
1	W	1094	ASN
1	W	1142	ASN
1	W	1261	GLN
1	W	1283	GLN
1	W	1302	GLN
1	W	1346	ASN
1	W	1352	GLN
2	X	40	GLN
2	X	46	GLN
2	X	55	GLN
2	X	75	ASN
2	X	149	GLN
2	X	257	GLN
2	X	310	ASN
2	X	340	ASN
2	X	344	GLN
2	X	376	ASN
1	Z	34	ASN
1	Z	36	GLN
1	Z	41	ASN
1	Z	52	ASN
1	Z	56	ASN
1	Z	61	ASN
1	Z	63	GLN
1	Z	124	GLN
1	Z	157	ASN
1	Z	169	GLN
1	Z	222	GLN
1	Z	224	ASN
1	Z	279	GLN
1	Z	329	ASN
1	Z	372	GLN
1	Z	444	GLN
1	Z	488	ASN
1	Z	547	GLN
1	Z	623	ASN
1	Z	708	ASN
1	Z	737	ASN
1	Z	741	GLN

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Mol	Chain	Res	Type
1	Z	745	ASN
1	Z	746	ASN
1	Z	758	ASN
1	Z	830	ASN
1	Z	932	ASN
1	Z	1076	ASN
1	Z	1080	GLN
1	Z	1247	ASN
1	Z	1257	GLN
1	Z	1283	GLN
1	Z	1284	GLN
1	Z	1302	GLN
1	Z	1312	GLN
1	Z	1314	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

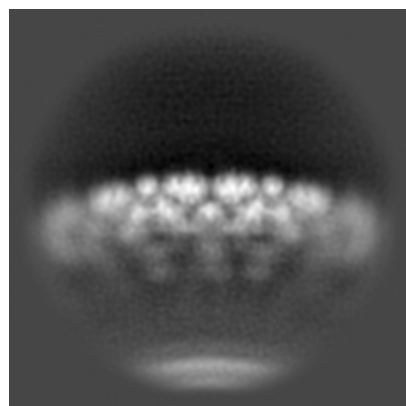
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-18127. These allow visual inspection of the internal detail of the map and identification of artifacts.

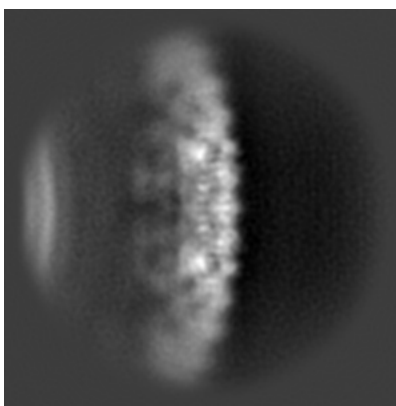
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

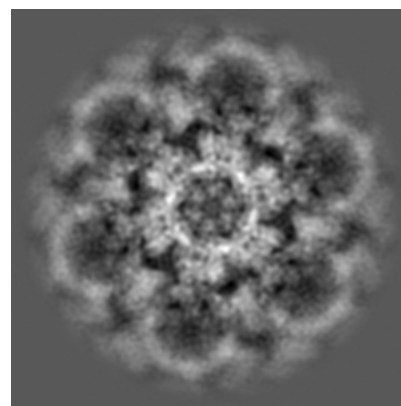
6.1.1 Primary map



X

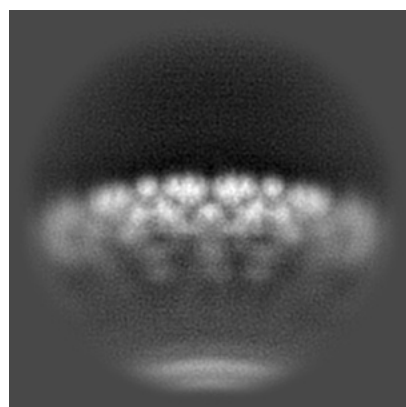


Y

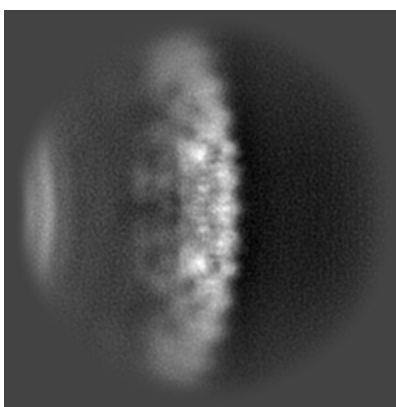


Z

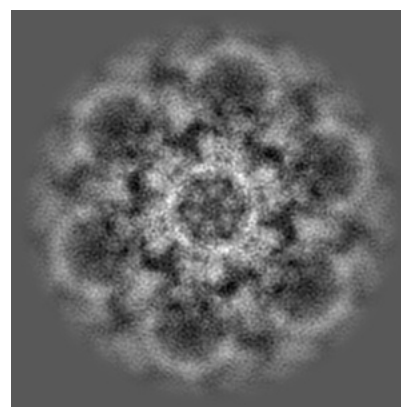
6.1.2 Raw map



X



Y

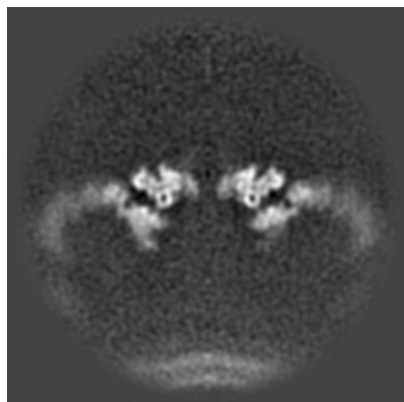


Z

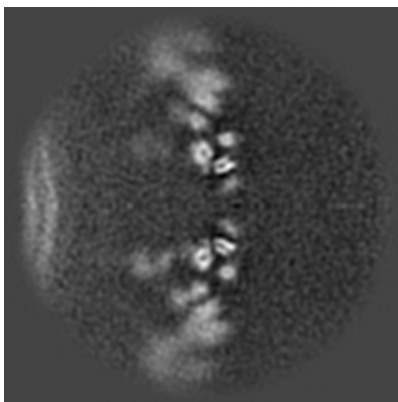
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

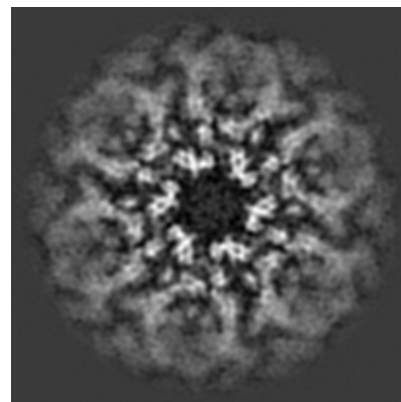
6.2.1 Primary map



X Index: 100

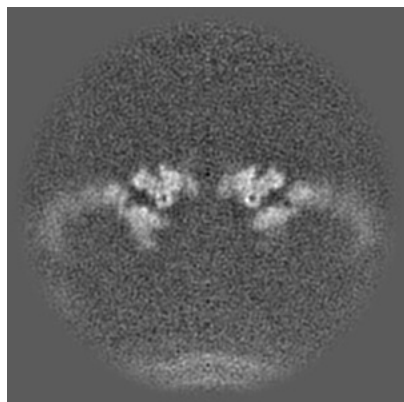


Y Index: 100

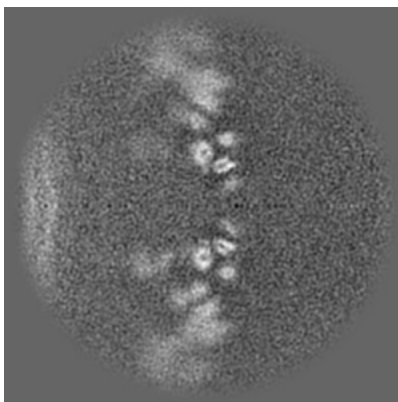


Z Index: 100

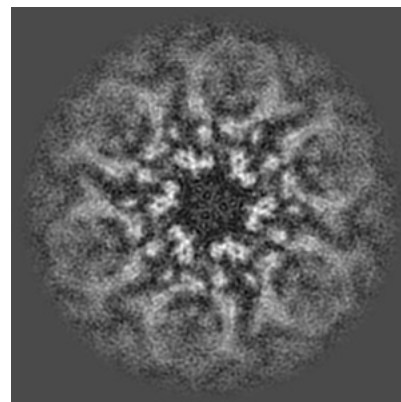
6.2.2 Raw map



X Index: 100



Y Index: 100

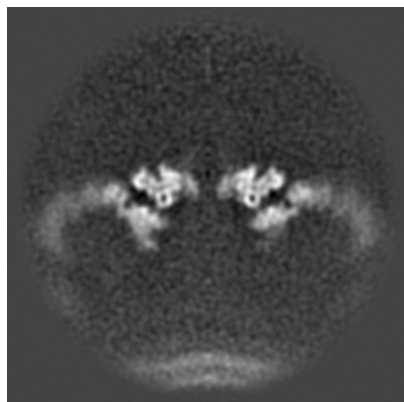


Z Index: 100

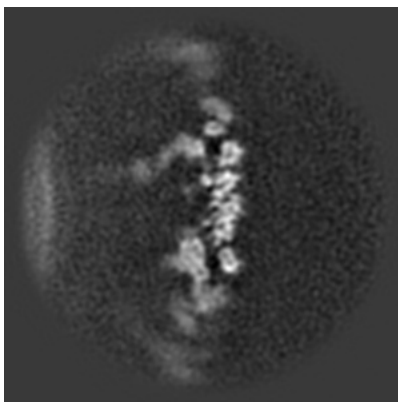
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

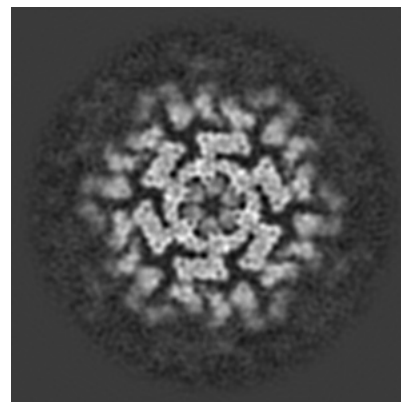
6.3.1 Primary map



X Index: 100

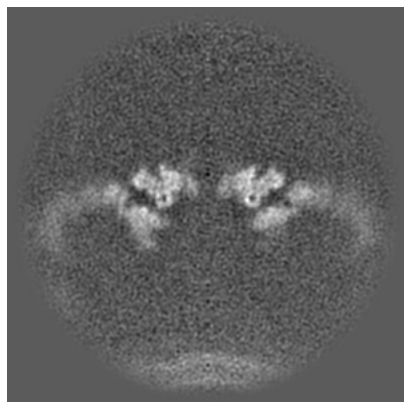


Y Index: 117

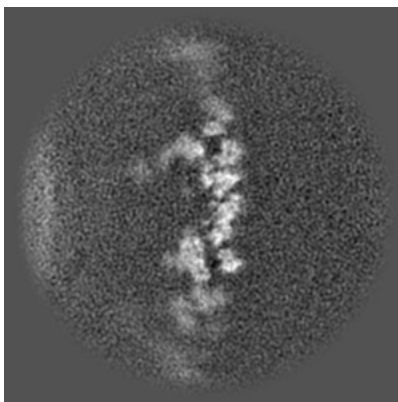


Z Index: 110

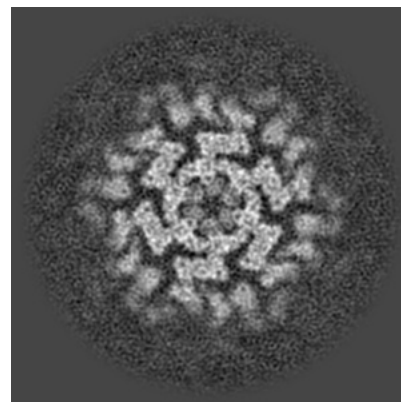
6.3.2 Raw map



X Index: 100



Y Index: 116

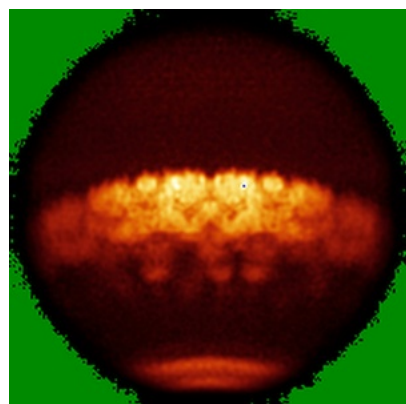


Z Index: 110

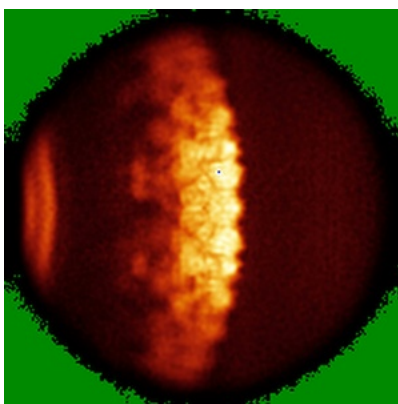
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

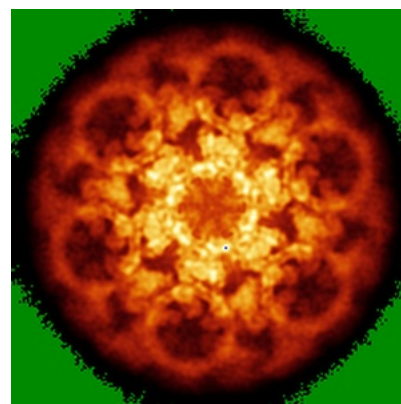
6.4.1 Primary map



X

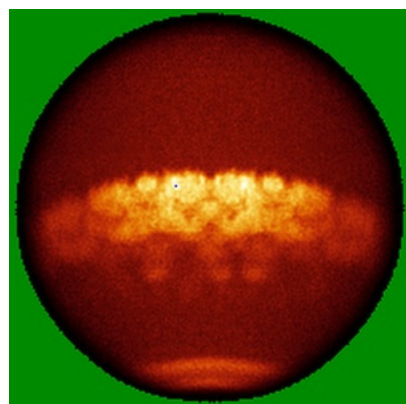


Y

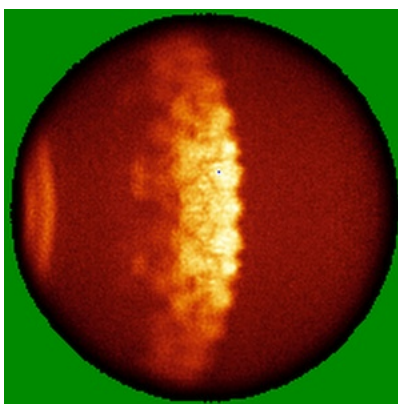


Z

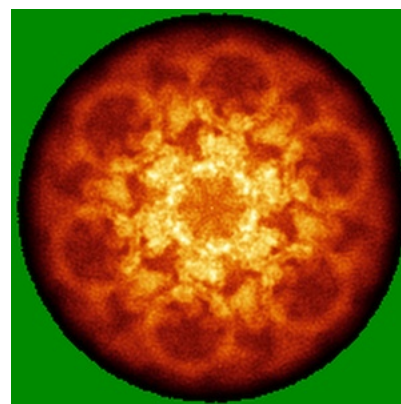
6.4.2 Raw map



X



Y

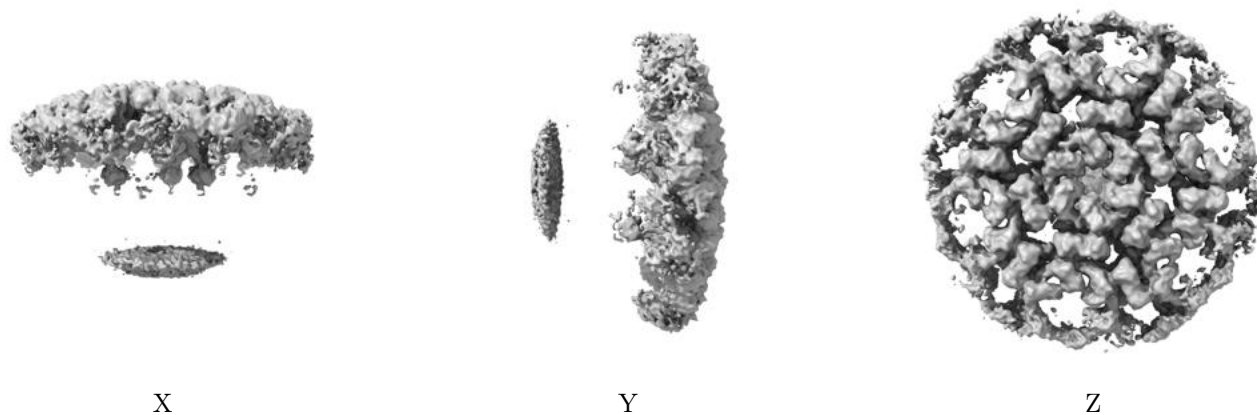


Z

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

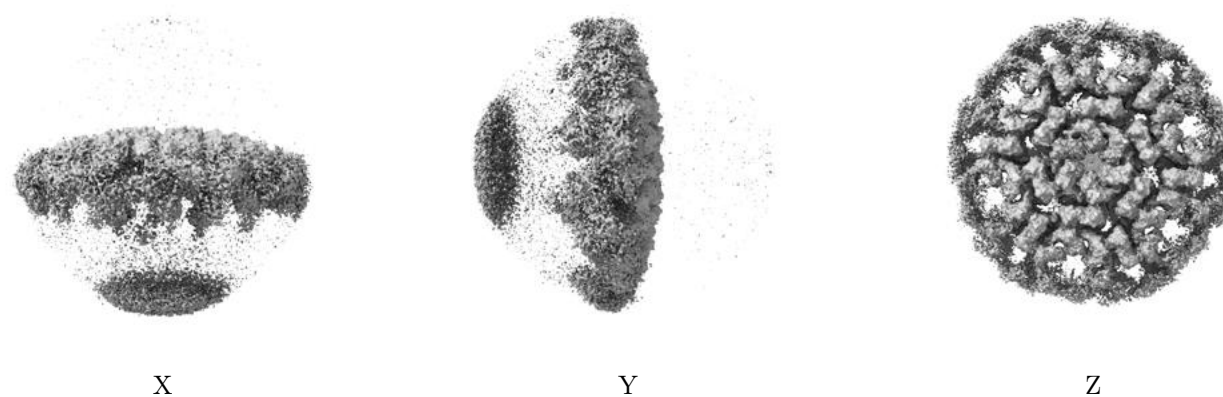
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.00509. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

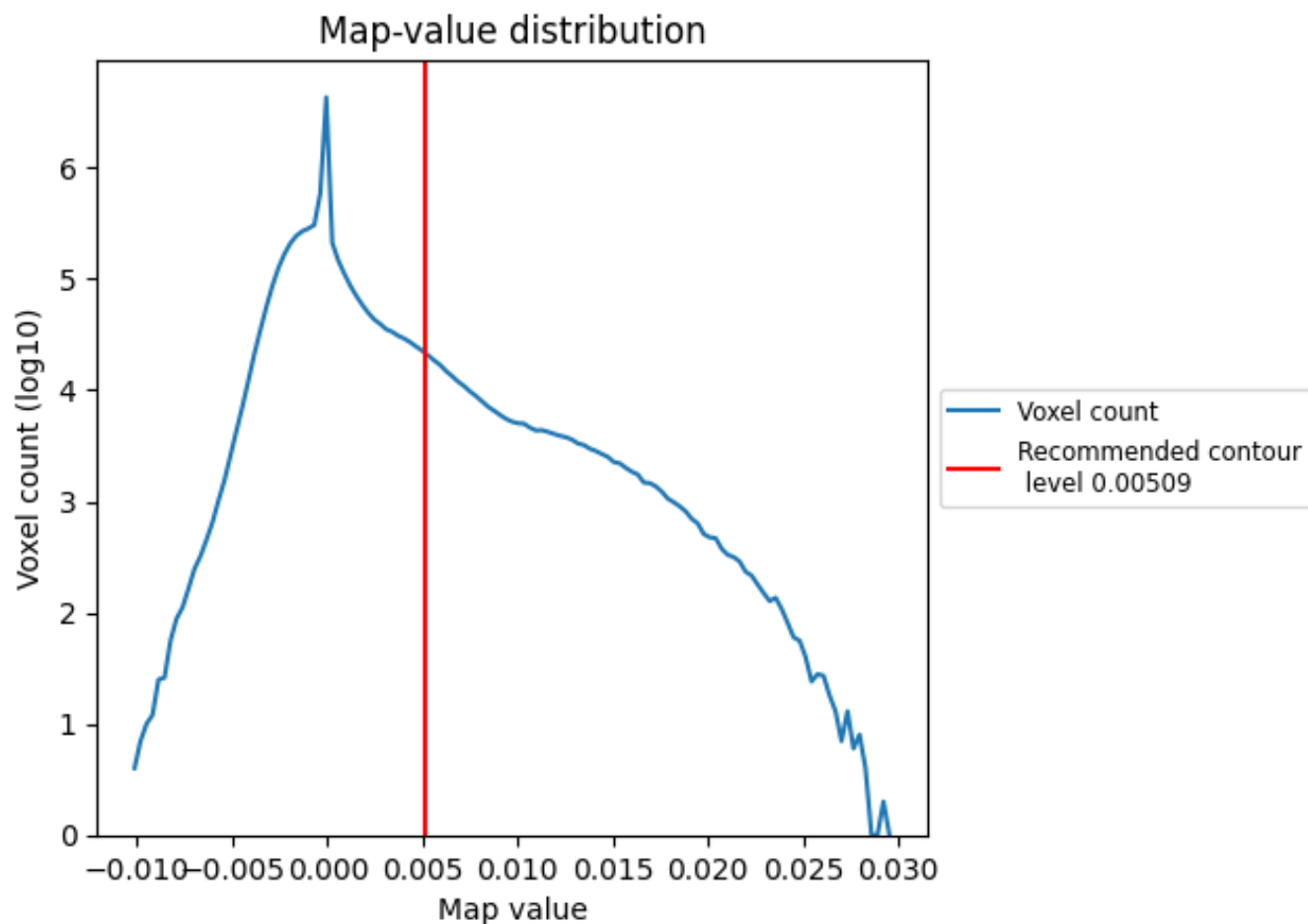
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

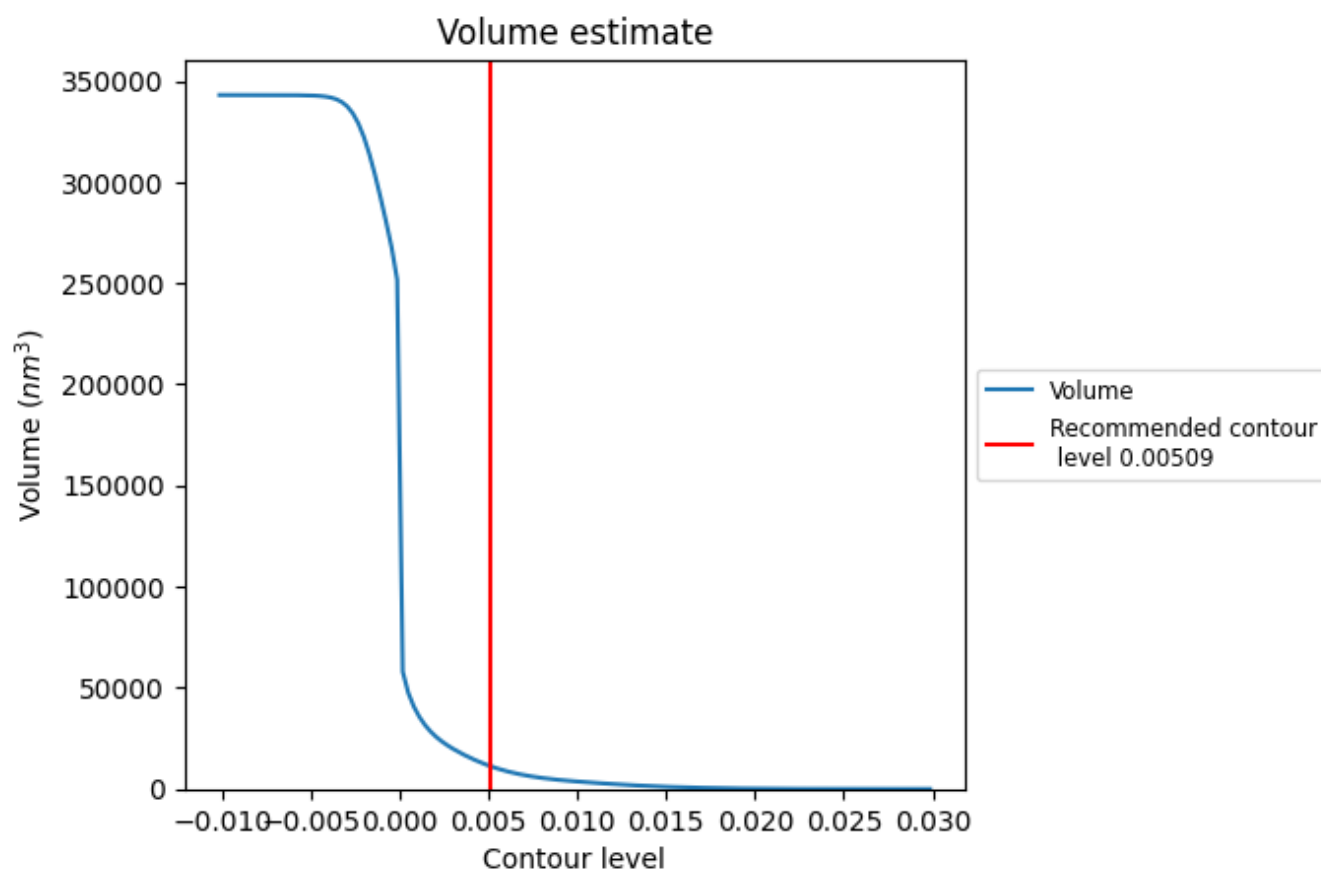
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

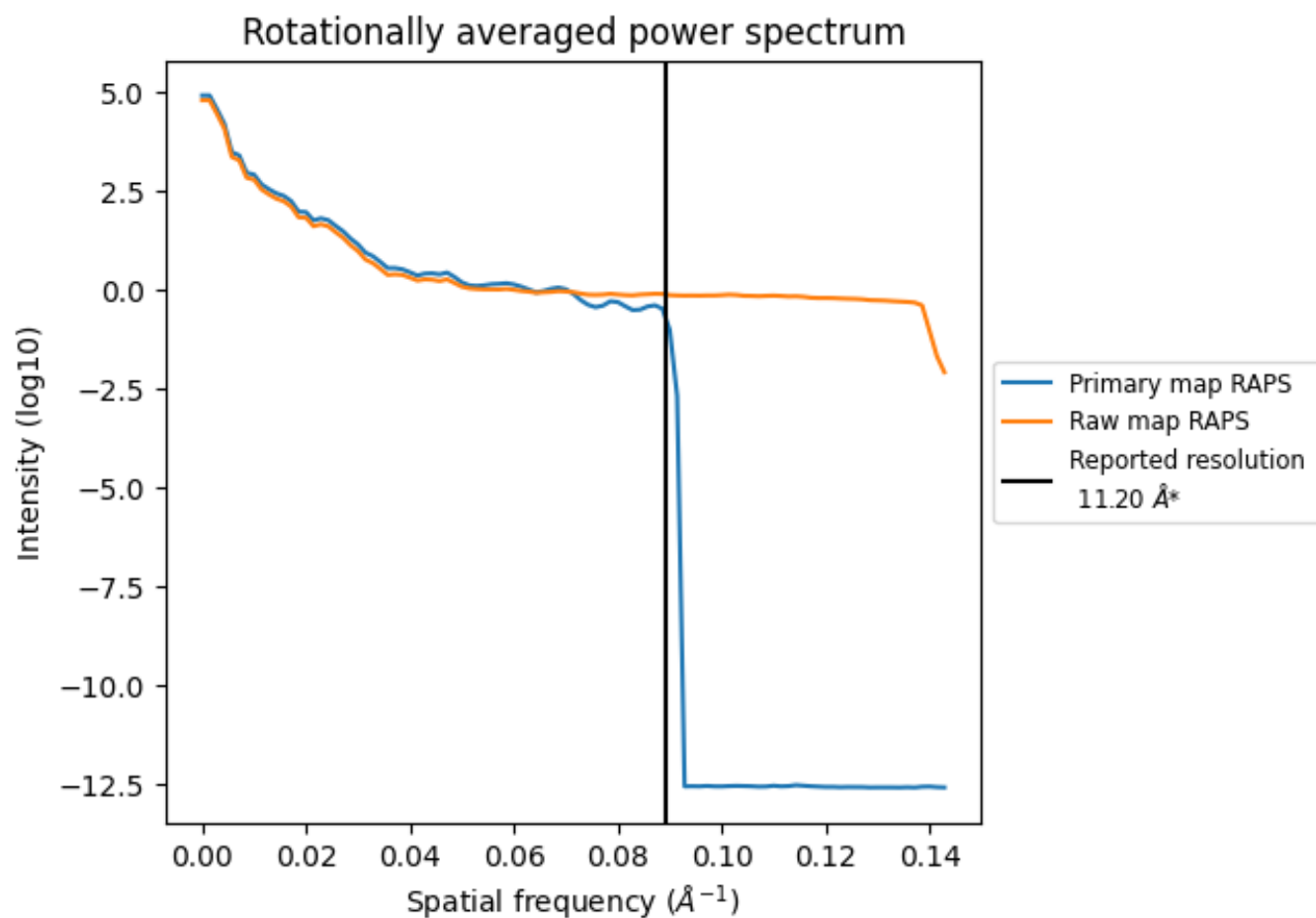
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 11315 nm^3 ; this corresponds to an approximate mass of 10221 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

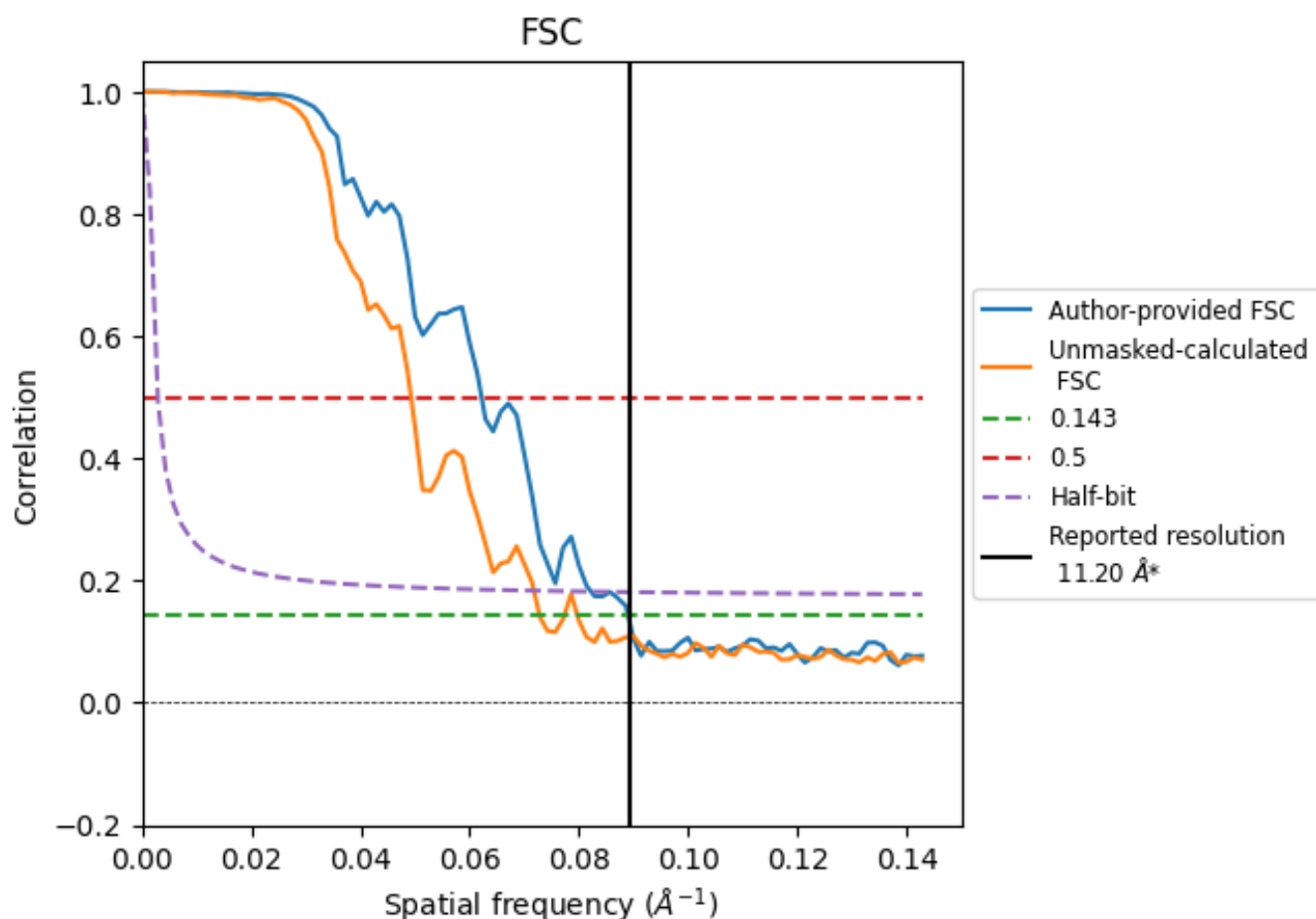


*Reported resolution corresponds to spatial frequency of 0.089 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of $0.089 \text{ \AA}^{-1}$

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	11.20	-	-
Author-provided FSC curve	11.24	16.08	12.17
Unmasked-calculated*	13.74	20.33	13.93

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 13.74 differs from the reported value 11.2 by more than 10 %

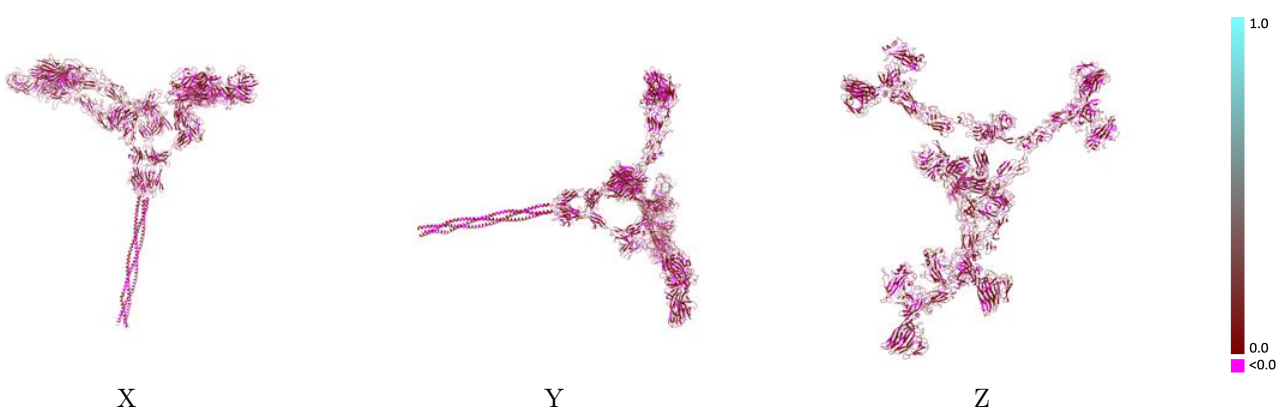
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-18127 and PDB model 8QOX. Per-residue inclusion information can be found in section 3 on page 5.

9.1 Map-model overlay [i](#)

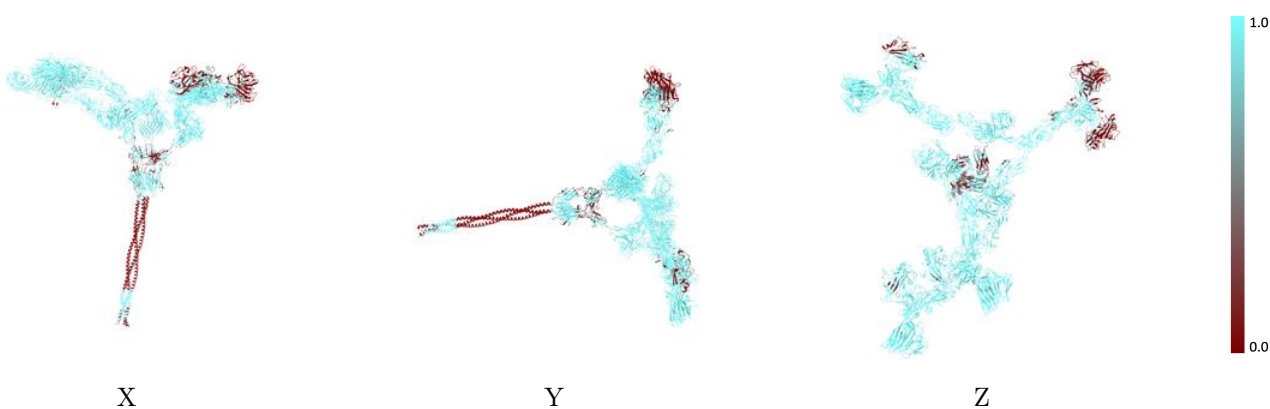
This section was not generated.

9.2 Q-score mapped to coordinate model [i](#)



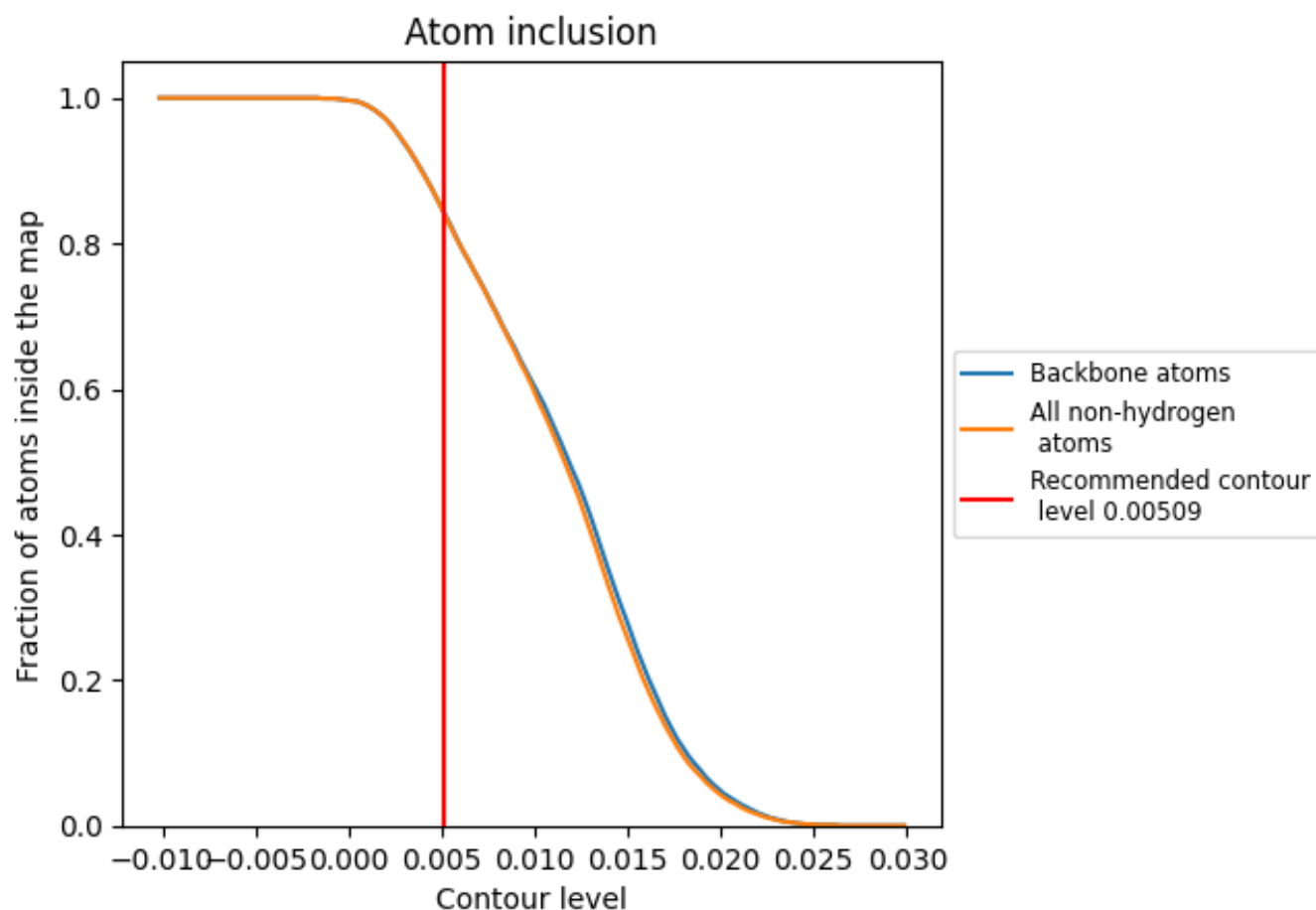
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.00509).

9.4 Atom inclusion [i](#)



At the recommended contour level, 84% of all backbone atoms, 84% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.00509) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8440	0.0660
A	0.9780	0.0790
B	0.6270	0.0550
C	0.6100	0.0560
V	0.9390	0.0660
W	0.6970	0.0510
X	0.5710	0.0460
Z	0.9890	0.0810

1.0

0.0

<0.0