



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 12, 2026 – 05:49 PM UTC

PDB ID : 1TWG / pdb_00001twg
Title : RNA polymerase II complexed with CTP
Authors : Westover, K.D.; Bushnell, D.A.; Kornberg, R.D.
Deposited on : 2004-06-30
Resolution : 3.30 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

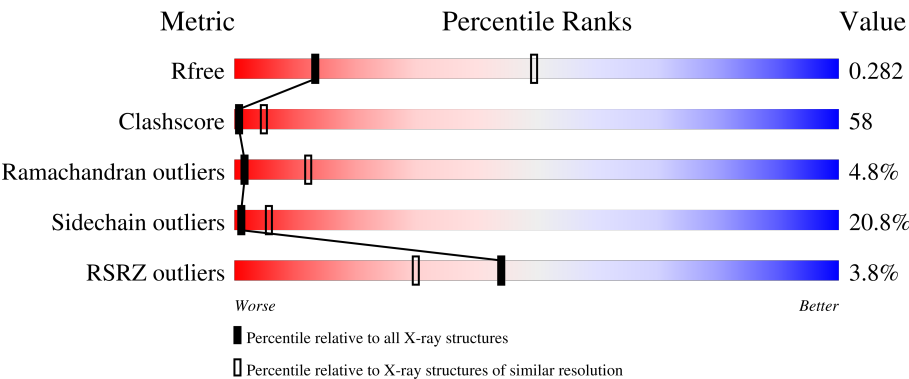
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.30 Å.

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



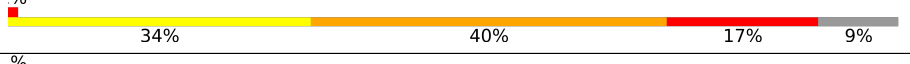
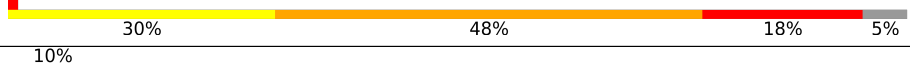
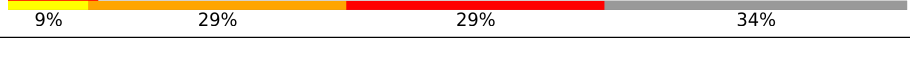
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1169 (3.32-3.28)
Clashscore	190562	1209 (3.32-3.28)
Ramachandran outliers	187476	1188 (3.32-3.28)
Sidechain outliers	187428	1187 (3.32-3.28)
RSRZ outliers	180081	1169 (3.32-3.28)

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

Mol	Chain	Length	Quality of chain
1	A	1733	3% 34%30%12%22%
2	B	1224	3% 35%37%15%11%
3	C	318	28%38%16%16%
4	E	215	6% 32%44%22%
5	F	155	% 24%21%8%46%

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Mol	Chain	Length	Quality of chain
6	H	146	
7	I	122	
8	J	70	
9	K	120	
10	L	70	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
12	ZN	J	3001	-	-	X	-
12	ZN	L	3005	-	-	X	-
13	CTP	B	3008	X	-	X	-

2 Entry composition [i](#)

There are 14 unique types of molecules in this entry. The entry contains 27731 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA-directed RNA polymerase II largest subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1349	Total	C	N	O	S	0	0	0
			10606	6692	1839	2017	58			

- Molecule 2 is a protein called DNA-directed RNA polymerase II 140 kDa polypeptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	1091	Total	C	N	O	S	0	0	0
			8690	5511	1516	1610	53			

- Molecule 3 is a protein called DNA-directed RNA polymerase II 45 kDa polypeptide.

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

- Molecule 4 is a protein called DNA-directed RNA polymerases I, II, and III 27 kDa polypeptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	E	215	Total	C	N	O	S	0	0	0
			1760	1116	310	322	12			

- Molecule 5 is a protein called DNA-directed RNA polymerases I, II, and III 23 kDa polypeptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	F	83	Total	C	N	O	S	0	0	0
			670	428	114	125	3			

- Molecule 6 is a protein called DNA-directed RNA polymerases I, II, and III 14.5 kDa polypeptide.

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

- Molecule 7 is a protein called DNA-directed RNA polymerase II 14.2 kDa polypeptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	I	121	Total	C	N	O	S	0	0	0
			990	610	181	188	11			

- Molecule 8 is a protein called DNA-directed RNA polymerases I, II, and III 8.3 kDa polypeptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	J	64	Total	C	N	O	S	0	0	0
			525	334	92	93	6			

- Molecule 9 is a protein called DNA-directed RNA polymerase II 13.6 kDa polypeptide.

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

- Molecule 10 is a protein called DNA-directed RNA polymerases I, II, and III 7.7 kDa polypeptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	L	46	Total	C	N	O	S	0	0	0
			364	224	72	64	4			

- Molecule 11 is MANGANESE (II) ION (CCD ID: MN) (formula: Mn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
11	A	2	Total	Mn	0	0
			2	2		

- Molecule 12 is ZINC ION (CCD ID: ZN) (formula: Zn).

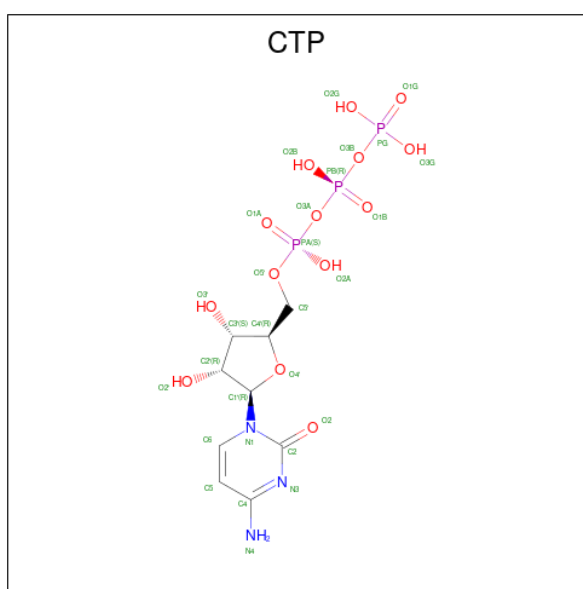
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
12	A	2	Total	Zn	0	0
			2	2		
12	B	1	Total	Zn	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
12	C	1	Total	Zn	0	0
			1	1		
12	I	2	Total	Zn	0	0
			2	2		
12	J	1	Total	Zn	0	0
			1	1		
12	L	1	Total	Zn	0	0
			1	1		

- Molecule 13 is CYTIDINE-5'-TRIPHOSPHATE (CCD ID: CTP) (formula: $C_9H_{16}N_3O_{14}P_3$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
13	B	1	Total	C	N	O	P	0	0
			29	9	3	14	3		

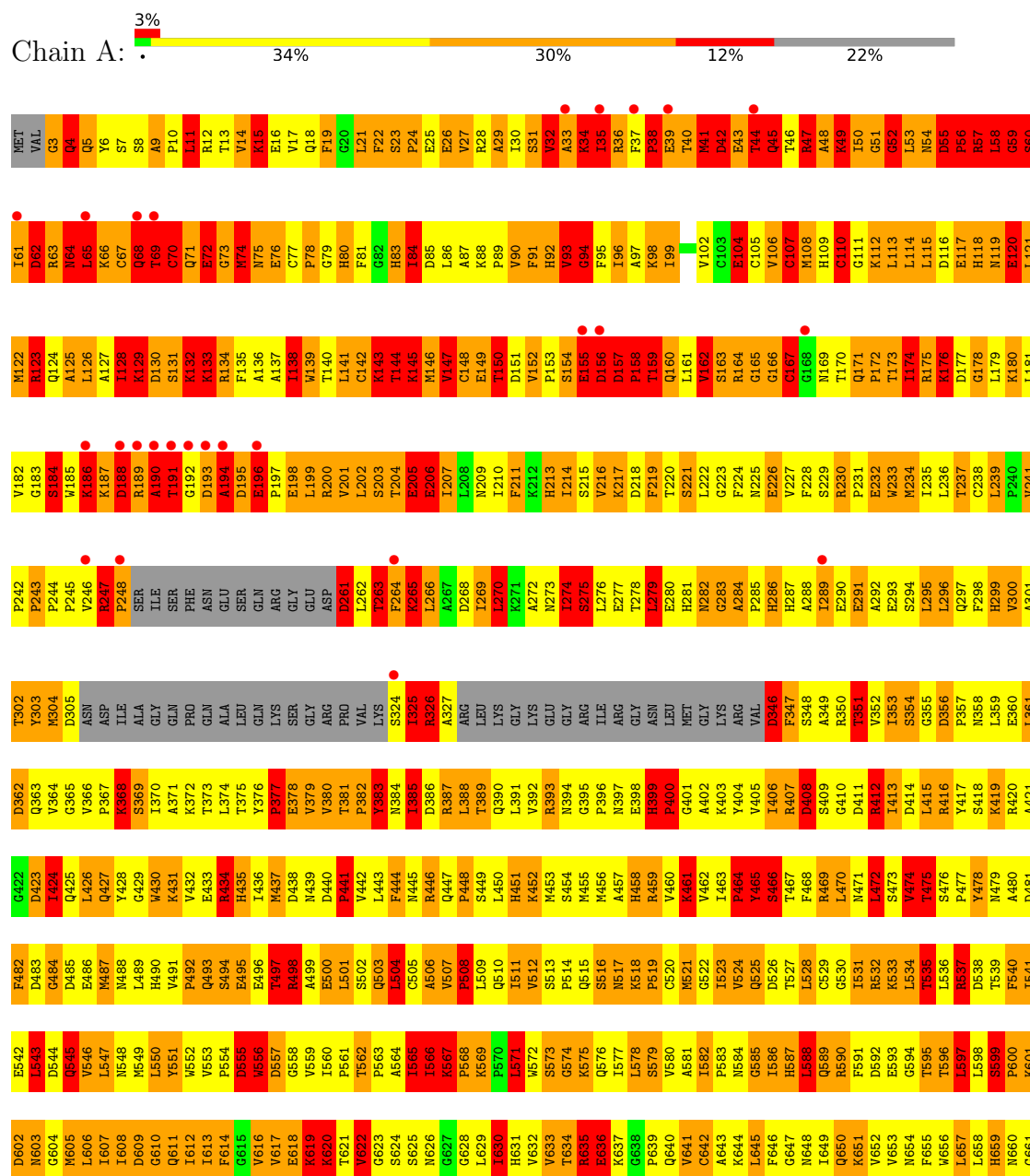
- Molecule 14 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
14	A	2	Total	O	0	0
			2	2		
14	B	3	Total	O	0	0
			3	3		

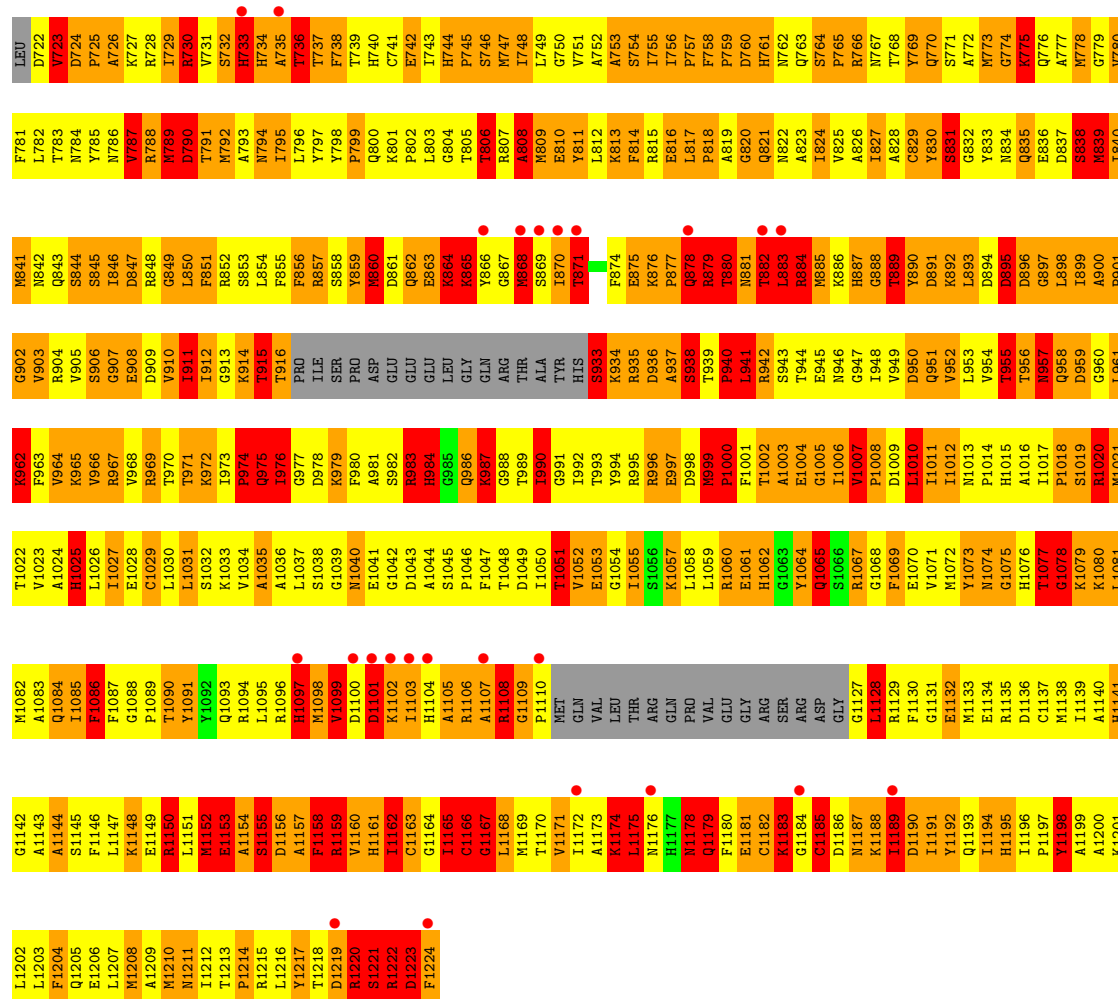
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

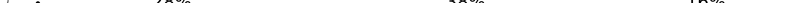
- Molecule 1: DNA-directed RNA polymerase II largest subunit

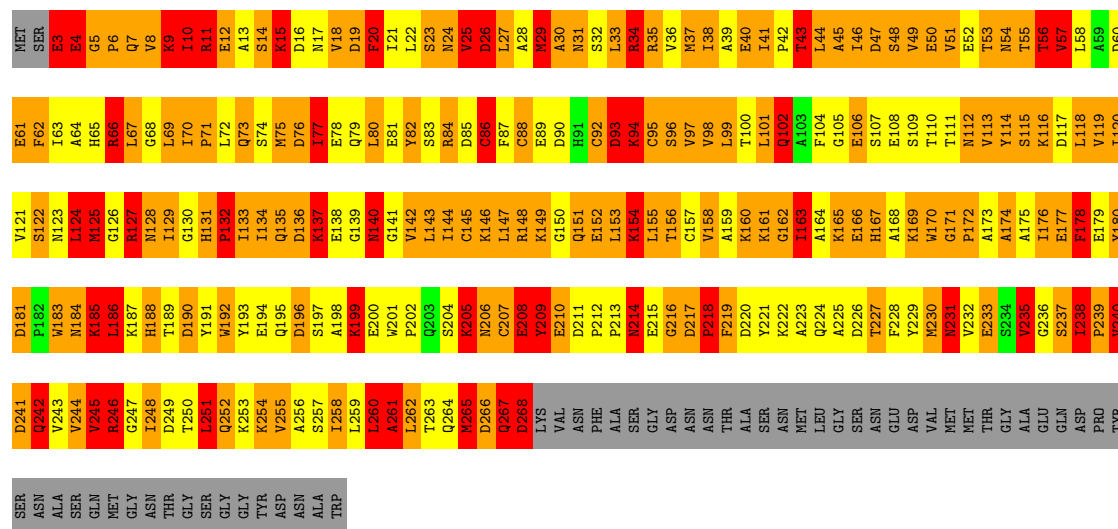


ASP	D1442	T1382	I1322	K1262	M1202	T1142	ASN	L1022	L902	V842	R782	L722	P662
ALA	V1443	S1383	D1323	I1263	M1203	L1143	THR	R1023	R903	R643	T783	N723	S663
MET	M1444	V1384	P1324	E1264	D1204	K1144	PHE	S1024	T904	A844	L784	E724	T664
ALA	T1445	T1385	P1325	N1265	K1205	H15	HIS	R1025	D905	L845	P785	A725	G665
GLY	D1446	R1326	R1326	T1266	D1206	V1146	PHE	L1026	H906	E846	H786	R726	I666
GLY	E1447	H1327	I1327	M1267	L1207	T1147	ALA	A1027	T907	D847	F787	D727	G667
PHE	E1448	X1328	X1328	L1268	T1208	I1148	GLY	T1028	L908	T848	S788	K728	D668
THR	S1449	T1329	T1329	E1269	M1209	A1149	VAL	R1029	D909	R849	K789	A729	T669
THR	V1450	N1270	N1270	N1270	G1210	S1150	ALA	R1030	P910	V850	D790	G730	T670
TYR	VAL	ASN	S1331	I1271	Q1211	E1151	SER	V1031	S911	H851	D791	R731	A671
GLY	LYS	SER	F1332	T1272	V1212	I1152	THR	L1032	L912	V852	F792	L732	D672
GLY	TVR	ASN	I1333	L1273	G1213	V1153	K1093	Q1033	L913	D853	S793	A733	G673
ALA	MET	THR	D1334	R1274	E1214	Y1154	V1094	E1034	E914	N854	F794	E734	P674
ALA	PRO	GLY	I1335	G1275	R1215	D1155	T1095	Y1035	S915	T855	E795	V755	T675
ASP	M1336	E1276	M1336	V1277	I1216	P1156	S1096	Y1036	G916	T856	S796	N736	M676
TYR	E1337	E1277	E1337	I1277	K1217	G1097	GLY	R1036	S917	R857	K797	L737	R677
GLY	E1337	E1277	E1337	N1278	Q1218	P1158	GLY	L1037	E918	R858	G798	K738	E678
GLU	V1338	N1279	V1338	I1279	T1219	R1159	P1099	T1038	S919	S859	F799	D739	P679
ALA	I1339	I1279	I1339	I1279	T1219	R1159	P1099	K1039	S919	S859	F799	D739	P679
ALA	I1340	E1280	G1340	E1280	F1220	S1160	R1100	Q1040	L920	L860	V800	L740	T680
THR	G1340	E1280	G1340	E1280	F1220	S1160	R1100	Q1040	L920	L860	V800	L740	T680
PRO	I1341	R1281	I1341	R1281	K1221	T1161	L1101	A1041	G921	G861	E801	R741	S681
SER	E1342	V1282	E1342	V1282	N1222	V1162	K1102	F1042	D922	N862	R802	N742	T682
PHE	A1343	V1283	A1343	V1283	D1223	P1163	E1103	D1043	L923	V863	S803	F743	T683
GLY	G1344	M1284	G1344	M1284	L1224	P1164	T1104	W1044	K924	T864	Y804	K744	A684
ASP	R1345	M1285	R1345	M1285	F1225	E1165	L1105	V1045	L925	Q865	L805	Q745	E685
ALA	R1346	K1286	R1346	K1286	V1226	D1166	N1106	L1046	D926	F866	R806	M746	A686
TYR	A1347	Y1287	A1347	Y1287	I1227	E1167	V1107	S1047	V927	T867	G807	V747	K687
GLY	E1407	D1288	E1407	D1288	W1228	E1168	A1108	L1048	L928	T868	L808	M748	K688
GLU	T1408	R1288	T1408	R1288	S1229	E1169	K1109	I1049	L929	G869	T809	A749	K689
ALA	Y1349	I1289	Y1349	I1289	E1230	M1170	N1110	E1050	D930	E870	Q810	G750	V690
PRO	K1350	K1290	K1350	K1290	D1231	Q1171	M1111	A1051	E931	D871	Q811	S751	L691
THR	E1351	V1291	E1351	V1291	D1231	Q1171	M1111	A1051	E931	D871	Q811	S751	L691
THR	E1351	V1291	E1351	V1291	D1231	Q1171	M1111	A1051	E931	D871	Q811	S751	L691
SER	P1352	P1292	P1352	P1292	M1232	L1172	K1112	Q1052	E932	G872	E812	K752	D692
PRO	A1412	S1293	A1412	S1293	D1233	H1173	T1113	F1053	V933	K873	F813	G753	V693
PRO	G1413	S1293	G1413	S1293	D1233	H1173	T1113	F1053	V933	K873	F813	G753	V693
GLY	M1354	P1294	M1354	P1294	E1234	PHE	P1114	L1054	K934	D874	F814	S754	T694
PHE	S1415	T1295	P1355	T1295	K1235	SER	S1115	R1055	Q935	A875	H815	F755	K695
GLY	A1416	G1296	I1356	G1296	L1236	L1176	T1117	S1056	V937	H877	A817	N757	A697
VAL	E1417	E1297	A1357	E1297	I1237	LEU	T1117	V1057	K938	T878	M818	T758	G698
SER	L1418	Y1298	S1358	Y1298	I1238	ASP	V1118	V1058	D938	E879	G819	A759	A699
SER	D1359	V1299	D1359	V1299	R1239	GLU	Y1119	H1059	D939	E879	G819	A759	A699
PRO	G1360	K1300	G1360	K1300	C1240	GLU	L1120	P1060	R940	K890	G820	Q760	N700
GLY	S1361	E1301	S1361	E1301	R1241	ALA	E1121	G1061	R941	Q881	E821	M761	L701
PHE	V1362	P1302	V1362	P1302	V1242	GLU	P1122	E1062	F942	S882	E822	S762	T702
SER	V1363	E1303	V1363	E1303	V1243	GLN	G1123	M1063	L943	L883	C823	A763	T703
PRO	M1364	V1304	M1364	V1304	ARG	SER	H1124	V1064	R944	D884	L824	G764	A704
THR	Y1365	S1305	Y1365	S1305	PRO	PHE	A1125	G1065	E945	T885	L825	V765	K705
SER	R1366	L1306	R1366	L1306	LYS	ASP	A1126	V1066	V946	I886	D826	G766	R706
PRO	H1367	E1307	H1367	E1307	SER	GLU	D1127	L1067	F947	G887	T827	Q767	G707
THR	M1368	T1308	M1368	T1308	LEU	Q1188	Q1128	A1068	V948	C888	A828	Q768	N708
TYR	A1369	D1309	A1369	D1309	ASP	S1189	E1129	A1069	D949	S889	V829	S769	T709
GLU	I1429	G1310	I1429	G1310	ALA	P1190	Q1130	Q1070	G950	D890	K830	V770	L710
LEU	L1430	V1311	L1430	V1311	GLU	W1191	A1131	S1071	E951	A891	T831	E771	R711
PRO	G1431	M1312	G1431	M1312	THR	L1192	K1132	I1072	A952	A892	A832	G772	E712
THR	V1372	N1313	V1372	N1313	GLU	L1193	L1133	G1073	R953	F893	E833	G773	S713
SER	D1373	L1313	D1373	L1313	GLU	L1193	L1133	G1073	R953	F893	E833	G773	S713
PRO	V1374	S1314	V1374	S1314	R1194	A1194	L1134	E1074	W954	E894	T834	R774	F714
ALA	P1435	E1255	P1435	E1255	L1195	L1195	R1135	P1075	P955	K895	G835	T775	E715
TYR	T1375	M1315	T1375	M1315	E1256	E1196	S1136	A1076	L956	R896	Y836	A776	D716
GLY	T1377	V1317	T1377	V1317	L1257	L1197	A1137	T1077	P957	X897	T837	F777	N717
ASP	T1378	H1258	T1378	H1258	D1198	D1198	T1138	Q1078	V958	R898	Q838	G778	V718
PRO	T1388	H1259	T1388	H1259	D1199	D1199	T1139	M1079	R959	W899	R839	F779	V719
THR	G1379	P1320	G1379	P1320	R1199	R1199	E1139	T1080	P960	R840	R840	V780	R720
SER	G1380	L1260	G1380	L1260	A1200	A1200	H140	T1080	P961	R840	R840	V780	R720
PRO	L1381	K1261	L1381	K1261	A1201	A1201	T141	L1081	R961	L901	L841	D781	F721

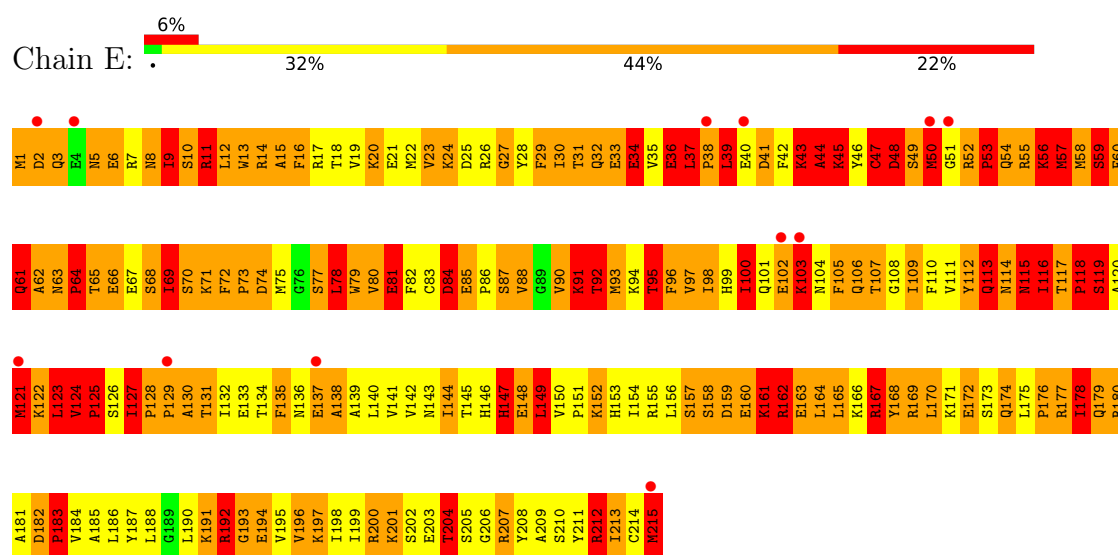


- Molecule 3: DNA-directed RNA polymerase II 45 kDa polypeptide

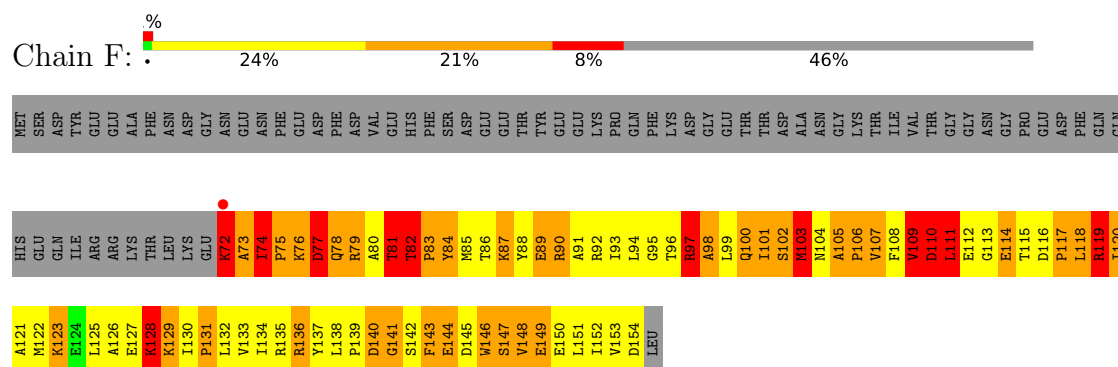
Chain C:  28% 38% 16% 16%



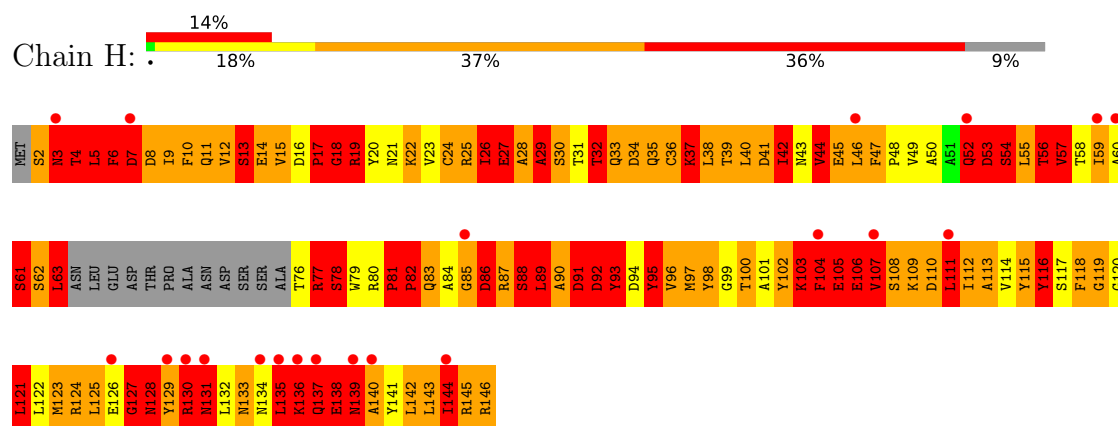
- Molecule 4: DNA-directed RNA polymerases I, II, and III 27 kDa polypeptide



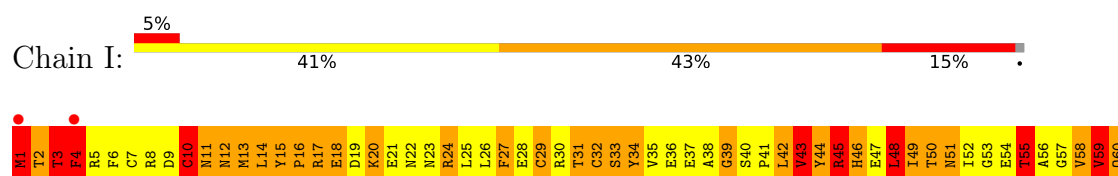
- Molecule 5: DNA-directed RNA polymerases I, II, and III 23 kDa polypeptide

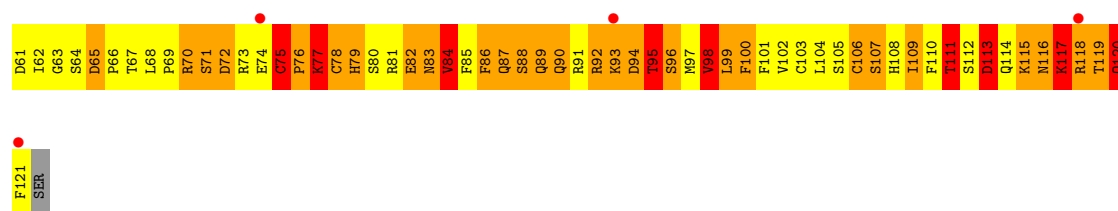


- Molecule 6: DNA-directed RNA polymerases I, II, and III 14.5 kDa polypeptide

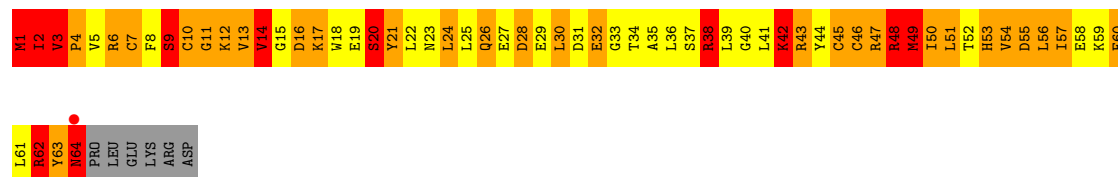


- Molecule 7: DNA-directed RNA polymerase II 14.2 kDa polypeptide





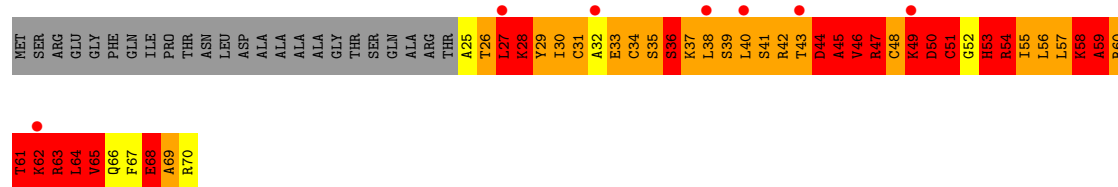
- Molecule 8: DNA-directed RNA polymerases I, II, and III 8.3 kDa polypeptide



- Molecule 9: DNA-directed RNA polymerase II 13.6 kDa polypeptide



- Molecule 10: DNA-directed RNA polymerases I, II, and III 7.7 kDa polypeptide



4 Data and refinement statistics

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α , β , γ	123.00Å 223.00Å 374.00Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.00 – 3.30 40.00 – 3.30	Depositor EDS
% Data completeness (in resolution range)	(Not available) (40.00-3.30) 93.1 (40.00-3.30)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.33 (at 3.32Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.263 , 0.281 0.227 , 0.282	Depositor DCC
R_{free} test set	2324 reflections (2.99%)	wwPDB-VP
Wilson B-factor (Å ²)	53.7	Xtriage
Anisotropy	0.367	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 57.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.89	EDS
Total number of atoms	27731	wwPDB-VP
Average B, all atoms (Å ²)	38.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.88% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

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	5.56	3559/10792 (33.0%)	3.44	1967/14601 (13.5%)
2	B	5.59	2907/8860 (32.8%)	3.42	1557/11945 (13.0%)
3	C	5.64	694/2133 (32.5%)	3.50	390/2891 (13.5%)
4	E	5.54	563/1796 (31.3%)	3.40	321/2416 (13.3%)
5	F	5.17	200/682 (29.3%)	3.37	125/922 (13.6%)
6	H	5.49	336/1086 (30.9%)	3.28	185/1470 (12.6%)
7	I	6.06	372/1009 (36.9%)	3.74	221/1357 (16.3%)
8	J	5.25	170/533 (31.9%)	3.62	109/715 (15.2%)
9	K	5.52	327/937 (34.9%)	3.60	195/1265 (15.4%)
10	L	6.08	142/366 (38.8%)	3.58	72/485 (14.8%)
All	All	5.58	9270/28194 (32.9%)	3.45	5142/38067 (13.5%)

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	69
2	B	0	59
3	C	0	19
4	E	0	9
6	H	0	15
7	I	0	9
8	J	0	2
9	K	0	5
10	L	0	4
All	All	0	191

All (9270) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	57	MET	SD-CE	43.75	2.88	1.79
2	B	101	MET	SD-CE	33.55	2.63	1.79
2	B	870	ILE	CA-CB	32.73	2.00	1.53
4	E	162	ARG	NE-CZ	31.22	1.67	1.33
2	B	552	MET	SD-CE	31.13	2.57	1.79
2	B	436	VAL	CA-CB	29.70	1.94	1.54
1	A	487	MET	SD-CE	-29.57	1.05	1.79
9	K	1	MET	SD-CE	29.43	2.53	1.79
1	A	464	PRO	C-O	-28.21	0.87	1.24
2	B	792	MET	SD-CE	28.12	2.49	1.79
1	A	593	GLU	C-O	26.80	1.59	1.24
2	B	1083	ALA	CA-CB	-26.77	1.13	1.53
3	C	265	MET	SD-CE	26.72	2.46	1.79
2	B	1050	ILE	C-O	-25.92	0.93	1.24
1	A	61	ILE	CA-CB	25.56	1.89	1.54
4	E	81	GLU	CA-C	-25.44	1.19	1.52
2	B	999	MET	SD-CE	-25.43	1.16	1.79
1	A	69	THR	CA-C	24.77	1.85	1.52
7	I	22	ASN	C-O	24.68	1.58	1.24
2	B	1165	ILE	CA-CB	24.56	1.81	1.55
2	B	705	MET	SD-CE	-24.50	1.18	1.79
2	B	313	MET	SD-CE	-24.50	1.18	1.79
2	B	552	MET	CG-SD	24.44	2.41	1.80
6	H	91	ASP	CA-C	24.44	1.81	1.52
1	A	1349	TYR	C-O	-24.43	0.95	1.24
6	H	104	PHE	CA-C	24.41	1.85	1.52
2	B	885	MET	SD-CE	24.27	2.40	1.79
6	H	9	ILE	CA-CB	24.25	1.85	1.54
1	A	304	MET	SD-CE	24.18	2.40	1.79
2	B	246	LYS	CA-C	24.14	1.83	1.52
1	A	1381	LEU	C-O	-23.63	0.94	1.23
2	B	352	ALA	CA-CB	-23.51	1.15	1.53
3	C	181	ASP	CA-C	-23.33	1.23	1.52
2	B	662	MET	SD-CE	23.30	2.37	1.79
3	C	6	PRO	C-O	23.27	1.46	1.23
2	B	39	ARG	NE-CZ	23.23	1.58	1.33
3	C	28	ALA	C-O	23.21	1.53	1.24
2	B	1002	THR	CA-C	23.15	1.83	1.52
1	A	188	ASP	CA-C	23.07	1.83	1.52
1	A	1152	ILE	CA-CB	-23.01	1.25	1.54
6	H	136	LYS	CA-C	22.81	1.83	1.52
2	B	896	ASP	CA-C	-22.71	1.21	1.52
2	B	381	MET	SD-CE	-22.66	1.22	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	75	MET	SD-CE	22.57	2.35	1.79
3	C	113	VAL	CA-CB	-22.53	1.27	1.54
10	L	26	THR	CA-CB	22.51	1.91	1.53
1	A	728	LYS	CD-CE	22.44	2.19	1.52
10	L	48	CYS	CA-C	21.97	1.78	1.53
2	B	1163	CYS	CA-CB	21.91	1.89	1.53
2	B	787	VAL	N-CA	-21.74	1.26	1.46
7	I	42	LEU	C-O	-21.65	0.97	1.24
1	A	673	GLY	C-O	-21.59	1.02	1.24
2	B	1165	ILE	C-O	-21.59	0.98	1.23
3	C	125	MET	SD-CE	21.53	2.33	1.79
8	J	50	ILE	C-O	21.50	1.47	1.23
4	E	31	THR	CA-CB	21.39	1.85	1.53
5	F	103	MET	SD-CE	21.32	2.32	1.79
4	E	50	MET	SD-CE	21.32	2.32	1.79
1	A	1038	THR	CA-C	-21.25	1.24	1.53
2	B	1070	GLU	C-O	-21.22	0.97	1.23
1	A	549	MET	SD-CE	-21.13	1.26	1.79
9	K	91	CYS	C-O	21.02	1.48	1.24
4	E	178	ILE	C-O	20.97	1.45	1.24
2	B	1021	MET	N-CA	-20.96	1.14	1.46
1	A	44	THR	CA-CB	20.89	1.88	1.53
7	I	91	ARG	CA-C	-20.83	1.28	1.53
1	A	1099	PRO	C-O	-20.59	0.97	1.24
2	B	1097	HIS	CA-CB	20.45	1.88	1.53
1	A	952	ALA	CA-CB	20.43	1.84	1.53
1	A	498	ARG	NE-CZ	-20.41	1.10	1.33
1	A	123	ARG	NE-CZ	20.27	1.55	1.33
3	C	174	ALA	CA-CB	-20.25	1.19	1.53
2	B	1029	CYS	CA-C	20.25	1.79	1.52
2	B	1081	LEU	CA-C	-20.20	1.27	1.52
1	A	41	MET	SD-CE	20.14	2.29	1.79
2	B	243	ALA	C-O	20.11	1.44	1.23
1	A	1349	TYR	CA-C	-20.09	1.26	1.52
2	B	882	THR	CA-C	20.05	1.76	1.52
10	L	45	ALA	CA-CB	19.97	1.87	1.53
10	L	65	VAL	C-O	19.96	1.43	1.24
3	C	86	CYS	CA-CB	19.95	1.82	1.53
1	A	549	MET	CA-C	-19.90	1.26	1.52
2	B	1196	ILE	C-O	19.90	1.38	1.24
7	I	88	SER	CA-C	-19.89	1.27	1.52
6	H	77	ARG	NE-CZ	19.86	1.54	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	521	MET	SD-CE	-19.85	1.29	1.79
2	B	240	ILE	C-O	-19.85	1.03	1.24
1	A	516	SER	N-CA	-19.84	1.24	1.46
1	A	1285	MET	SD-CE	19.81	2.29	1.79
3	C	127	ARG	C-O	19.79	1.47	1.24
2	B	180	TYR	CA-C	19.78	1.81	1.52
6	H	117	SER	C-O	19.76	1.45	1.23
1	A	171	GLN	C-O	-19.72	1.01	1.24
2	B	949	VAL	CA-CB	-19.68	1.32	1.54
2	B	537	LYS	C-O	-19.66	0.98	1.23
2	B	224	GLN	C-O	-19.66	1.01	1.23
1	A	643	ALA	CA-CB	-19.59	1.21	1.53
1	A	747	VAL	CA-CB	-19.57	1.32	1.54
1	A	1225	PHE	CA-CB	19.54	1.79	1.53
1	A	1232	ASN	C-O	19.48	1.48	1.24
1	A	1338	VAL	CA-CB	-19.43	1.26	1.54
3	C	108	GLU	C-O	19.42	1.46	1.24
3	C	228	PHE	N-CA	-19.36	1.22	1.46
2	B	1193	GLN	C-O	-19.30	0.98	1.23
1	A	1149	ALA	C-O	19.24	1.47	1.23
1	A	623	GLY	CA-C	-19.18	1.30	1.52
3	C	181	ASP	C-O	-19.15	0.99	1.24
1	A	1209	MET	SD-CE	-19.14	1.31	1.79
6	H	107	VAL	CA-CB	19.12	1.80	1.54
1	A	610	GLY	C-O	19.11	1.45	1.24
10	L	63	ARG	NE-CZ	19.05	1.54	1.33
2	B	883	LEU	CA-CB	18.95	1.82	1.53
2	B	619	ILE	CA-CB	-18.91	1.27	1.54
1	A	1302	PRO	C-O	18.89	1.45	1.23
2	B	337	ARG	NE-CZ	-18.89	1.12	1.33
1	A	948	VAL	C-O	-18.84	1.01	1.24
1	A	983	ILE	N-CA	18.84	1.68	1.46
2	B	90	ILE	N-CA	18.76	1.69	1.46
1	A	1222	ASN	CA-CB	18.75	1.82	1.53
2	B	975	GLN	CD-NE2	18.66	1.72	1.33
6	H	56	THR	CA-CB	18.66	1.76	1.53
1	A	1010	ALA	CA-C	-18.62	1.28	1.52
2	B	1137	CYS	C-O	-18.61	1.02	1.24
2	B	735	ALA	N-CA	18.60	1.68	1.46
4	E	194	GLU	C-O	-18.59	1.00	1.23
7	I	27	PHE	C-O	-18.59	1.01	1.24
2	B	733	HIS	CA-C	18.59	1.77	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	I	50	THR	CA-C	-18.54	1.30	1.52
6	H	146	ARG	NE-CZ	18.53	1.53	1.33
2	B	1020	ARG	CA-C	18.51	1.84	1.52
7	I	83	ASN	C-O	18.51	1.48	1.23
1	A	1280	GLU	C-O	-18.48	1.00	1.24
5	F	96	THR	N-CA	-18.41	1.24	1.46
7	I	89	GLN	C-O	-18.39	0.99	1.24
2	B	1140	ALA	CA-CB	-18.35	1.24	1.53
6	H	139	ASN	CA-CB	18.31	1.84	1.53
2	B	729	ILE	CA-CB	-18.29	1.32	1.54
2	B	1097	HIS	ND1-CE1	18.29	1.50	1.32
1	A	766	GLY	C-O	-18.27	1.02	1.23
3	C	89	GLU	C-O	18.26	1.46	1.24
7	I	118	ARG	NE-CZ	18.26	1.53	1.33
5	F	149	GLU	C-O	18.25	1.45	1.24
3	C	199	LYS	CA-C	-18.25	1.29	1.52
1	A	1128	GLN	CA-C	18.25	1.77	1.52
1	A	289	ILE	CA-CB	18.25	1.79	1.54
2	B	592	ASN	CG-OD1	18.23	1.58	1.23
1	A	849	MET	SD-CE	-18.23	1.33	1.79
1	A	274	ILE	CA-CB	18.22	1.75	1.54
3	C	143	LEU	C-O	-18.18	1.02	1.24
1	A	705	LYS	CB-CG	18.16	2.06	1.52
1	A	1443	VAL	C-O	-18.16	1.06	1.24
2	B	542	MET	SD-CE	-18.16	1.34	1.79
2	B	523	CYS	CA-C	-18.14	1.29	1.53
1	A	1126	ALA	CA-CB	-18.12	1.28	1.53
9	K	65	HIS	C-N	-18.12	1.17	1.33
2	B	1168	LEU	CA-C	-18.12	1.30	1.52
1	A	961	ARG	NE-CZ	18.09	1.52	1.33
1	A	708	MET	SD-CE	18.09	2.24	1.79
2	B	39	ARG	C-O	-18.09	1.03	1.24
1	A	1414	ALA	CA-CB	-18.08	1.21	1.53
1	A	1443	VAL	CA-C	-18.07	1.30	1.52
4	E	179	GLN	CA-CB	-18.02	1.23	1.53
3	C	81	GLU	C-O	18.01	1.45	1.23
3	C	267	GLN	CA-C	17.98	1.76	1.52
2	B	169	ARG	NE-CZ	17.96	1.52	1.33
1	A	1189	SER	CA-C	-17.90	1.30	1.52
1	A	186	LYS	CG-CD	17.89	2.06	1.52
1	A	1202	MET	SD-CE	17.87	2.24	1.79
1	A	432	VAL	C-O	-17.86	1.04	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	564	GLU	CD-OE1	17.85	1.59	1.25
1	A	1227	ILE	C-O	-17.83	0.99	1.23
2	B	1215	ARG	C-O	-17.83	1.02	1.24
2	B	497	ARG	C-O	-17.79	1.01	1.23
2	B	996	ARG	CZ-NH1	17.78	1.57	1.32
4	E	17	ARG	NE-CZ	17.74	1.52	1.33
3	C	257	SER	C-O	-17.73	1.01	1.24
1	A	1203	ASN	CA-C	17.71	1.75	1.52
4	E	181	ALA	CA-CB	-17.68	1.26	1.53
1	A	104	GLU	CA-C	17.67	1.76	1.52
1	A	752	LYS	CE-NZ	17.64	2.02	1.49
2	B	245	GLU	CA-C	17.64	1.76	1.52
7	I	46	HIS	CA-CB	17.60	1.76	1.52
2	B	723	VAL	CA-CB	17.57	1.76	1.54
6	H	121	LEU	C-O	17.57	1.45	1.24
1	A	1108	ALA	CA-CB	-17.51	1.28	1.53
1	A	1080	THR	CA-C	17.44	1.76	1.52
2	B	747	MET	SD-CE	-17.43	1.35	1.79
1	A	1067	LEU	C-O	17.42	1.44	1.24
2	B	106	ASP	CA-C	17.42	1.76	1.52
9	K	94	ILE	CA-CB	17.42	1.75	1.54
3	C	214	ASN	N-CA	17.38	1.67	1.46
2	B	780	VAL	CA-CB	-17.37	1.30	1.54
1	A	1268	LEU	N-CA	-17.36	1.24	1.46
2	B	545	ILE	N-CA	-17.32	1.25	1.46
4	E	65	THR	C-O	17.30	1.45	1.23
7	I	92	ARG	CA-C	17.30	1.73	1.52
2	B	347	LYS	CG-CD	17.30	2.04	1.52
2	B	1097	HIS	CD2-NE2	17.30	1.56	1.37
1	A	474	VAL	CA-CB	-17.26	1.31	1.54
6	H	139	ASN	CB-CG	17.22	1.95	1.52
4	E	79	TRP	C-O	-17.20	1.01	1.24
2	B	136	THR	CA-CB	17.19	1.78	1.53
4	E	20	LYS	CE-NZ	17.17	2.00	1.49
8	J	14	VAL	CA-CB	-17.14	1.31	1.54
3	C	253	LYS	C-O	17.13	1.45	1.24
1	A	1151	GLU	C-O	17.12	1.44	1.23
2	B	27	ALA	CA-CB	-17.10	1.26	1.53
6	H	81	PRO	CA-C	17.08	1.68	1.52
3	C	163	ILE	CA-CB	-17.08	1.25	1.55
2	B	578	THR	C-O	-17.07	1.02	1.24
1	A	1234	GLU	CD-OE1	17.07	1.57	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	586	TRP	C-O	-17.07	1.01	1.23
1	A	1135	ARG	CZ-NH2	17.05	1.55	1.33
4	E	98	ILE	CA-CB	17.02	1.76	1.54
1	A	104	GLU	C-O	16.98	1.45	1.24
1	A	728	LYS	CG-CD	16.97	2.03	1.52
4	E	138	ALA	C-O	-16.96	1.04	1.24
6	H	19	ARG	CG-CD	16.96	2.03	1.52
7	I	28	GLU	CA-C	-16.93	1.31	1.52
1	A	693	VAL	CA-C	-16.85	1.30	1.52
10	L	65	VAL	CA-C	-16.80	1.32	1.52
4	E	162	ARG	CZ-NH1	16.71	1.56	1.32
2	B	745	PRO	C-O	-16.69	1.02	1.24
1	A	1196	GLU	CA-C	16.69	1.73	1.52
2	B	1062	HIS	CA-CB	-16.69	1.28	1.53
1	A	371	ALA	CA-C	-16.68	1.30	1.52
1	A	459	ARG	C-O	-16.67	1.03	1.24
1	A	108	MET	SD-CE	-16.66	1.38	1.79
4	E	98	ILE	CA-C	16.66	1.74	1.52
2	B	63	ILE	CA-C	16.64	1.77	1.52
1	A	1367	HIS	C-O	-16.61	1.02	1.24
3	C	26	ASP	C-O	16.60	1.45	1.23
7	I	84	VAL	CA-CB	-16.60	1.31	1.54
1	A	364	VAL	CB-CG1	-16.58	0.97	1.52
3	C	218	PRO	CA-C	16.56	1.73	1.52
1	A	1356	ILE	C-O	-16.54	1.05	1.24
7	I	16	PRO	C-O	16.54	1.42	1.23
1	A	775	ILE	CA-CB	-16.53	1.34	1.54
2	B	230	ALA	CA-C	16.47	1.73	1.52
1	A	368	LYS	CG-CD	16.45	2.01	1.52
1	A	842	VAL	C-O	-16.45	1.04	1.24
3	C	252	GLN	CD-OE1	16.44	1.54	1.23
1	A	1282	VAL	C-O	-16.43	1.06	1.24
3	C	212	PRO	C-O	-16.42	1.06	1.24
1	A	864	ILE	CA-C	-16.41	1.36	1.52
1	A	808	LEU	C-O	-16.40	1.04	1.23
3	C	260	LEU	CG-CD2	16.39	2.06	1.52
1	A	713	SER	N-CA	-16.38	1.26	1.46
2	B	249	ARG	CA-C	16.38	1.74	1.52
2	B	785	TYR	CA-C	-16.37	1.29	1.52
8	J	5	VAL	C-O	-16.37	1.05	1.24
4	E	50	MET	CA-C	16.37	1.74	1.52
1	A	873	MET	C-O	-16.36	1.02	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	555	ASP	CB-CG	16.36	1.93	1.52
1	A	1212	VAL	CA-CB	-16.36	1.36	1.54
1	A	371	ALA	CA-CB	-16.33	1.26	1.53
6	H	87	ARG	CA-C	16.33	1.67	1.52
2	B	952	VAL	CA-CB	-16.33	1.31	1.54
1	A	806	ARG	CZ-NH2	16.32	1.54	1.33
9	K	54	ARG	NE-CZ	16.31	1.50	1.33
7	I	55	THR	CB-CG2	16.30	2.06	1.52
2	B	1221	SER	CA-C	16.27	1.74	1.52
1	A	626	ASN	CG-ND2	16.27	1.67	1.33
1	A	406	ILE	CA-C	-16.25	1.32	1.52
7	I	27	PHE	CA-CB	-16.24	1.31	1.53
1	A	1012	ARG	C-O	16.24	1.45	1.24
9	K	54	ARG	CD-NE	16.24	1.69	1.46
1	A	671	ALA	CA-CB	-16.22	1.28	1.53
2	B	870	ILE	CA-C	16.21	1.66	1.52
2	B	265	SER	CA-C	16.21	1.72	1.52
2	B	1182	CYS	CA-C	16.18	1.73	1.52
4	E	148	GLU	CA-C	-16.17	1.29	1.52
1	A	1259	MET	CG-SD	16.16	2.21	1.80
1	A	586	ILE	CA-C	-16.15	1.32	1.52
1	A	976	THR	CA-CB	16.14	1.75	1.53
1	A	1326	ARG	NE-CZ	16.14	1.50	1.33
9	K	71	PHE	C-O	16.10	1.43	1.23
1	A	550	LEU	C-O	-16.09	1.05	1.24
2	B	780	VAL	C-O	-16.08	1.04	1.24
1	A	464	PRO	C-N	-16.08	1.11	1.33
7	I	41	PRO	C-O	-16.07	1.06	1.23
2	B	1183	LYS	CA-C	16.05	1.74	1.52
2	B	962	LYS	CG-CD	16.04	2.00	1.52
1	A	1188	GLN	CA-C	16.04	1.72	1.52
2	B	243	ALA	CA-CB	16.03	1.84	1.53
2	B	598	GLU	CG-CD	16.00	1.92	1.52
2	B	226	PHE	C-O	-16.00	1.05	1.23
1	A	31	SER	CA-C	15.99	1.75	1.53
2	B	1194	ILE	N-CA	-15.99	1.27	1.46
2	B	699	GLU	N-CA	-15.98	1.25	1.46
2	B	448	ILE	CA-CB	15.96	1.74	1.54
1	A	973	ILE	CA-CB	15.96	1.73	1.54
1	A	1135	ARG	CG-CD	15.96	2.00	1.52
4	E	106	GLN	CG-CD	15.94	1.91	1.52
6	H	131	ASN	CB-CG	15.94	1.91	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1029	ARG	NE-CZ	-15.91	1.15	1.33
1	A	193	ASP	N-CA	15.89	1.66	1.46
2	B	986	GLN	CG-CD	15.89	1.91	1.52
4	E	52	ARG	CA-C	15.87	1.70	1.52
1	A	725	ALA	CA-CB	-15.84	1.28	1.53
2	B	216	GLU	C-O	-15.84	1.04	1.24
2	B	615	MET	N-CA	-15.82	1.26	1.46
1	A	934	LYS	CD-CE	15.82	2.00	1.52
3	C	64	ALA	CA-CB	-15.80	1.27	1.53
1	A	806	ARG	CA-C	-15.80	1.31	1.52
3	C	42	PRO	CA-CB	-15.79	1.33	1.53
3	C	154	LYS	CB-CG	15.78	1.99	1.52
1	A	247	ARG	C-O	15.77	1.44	1.24
1	A	1236	LEU	C-O	-15.77	1.04	1.24
2	B	976	ILE	C-O	15.77	1.39	1.24
2	B	775	LYS	CB-CG	15.76	1.99	1.52
1	A	1049	ILE	CA-CB	-15.76	1.35	1.54
3	C	90	ASP	N-CA	15.75	1.66	1.46
6	H	131	ASN	CA-CB	15.74	1.78	1.53
7	I	52	ILE	CA-C	-15.74	1.35	1.52
2	B	704	ALA	CA-CB	-15.73	1.29	1.53
4	E	164	LEU	CA-C	-15.72	1.32	1.52
4	E	49	SER	CA-C	15.71	1.72	1.53
8	J	56	LEU	N-CA	-15.71	1.25	1.46
2	B	1185	CYS	CA-CB	15.70	1.78	1.53
1	A	1272	THR	CB-CG2	15.69	2.04	1.52
2	B	1085	ILE	CA-CB	-15.67	1.35	1.54
7	I	75	CYS	C-O	-15.66	1.03	1.23
1	A	620	LYS	CD-CE	15.65	1.99	1.52
7	I	35	VAL	CA-CB	-15.65	1.28	1.55
2	B	258	LEU	CA-CB	-15.63	1.33	1.53
1	A	1098	VAL	C-O	-15.63	1.04	1.24
2	B	352	ALA	CA-C	-15.63	1.32	1.52
3	C	154	LYS	CD-CE	15.62	1.99	1.52
9	K	96	ASN	C-O	15.63	1.42	1.24
1	A	775	ILE	C-O	-15.60	1.07	1.24
1	A	941	LYS	CG-CD	15.59	1.99	1.52
2	B	194	GLU	CD-OE1	15.58	1.54	1.25
1	A	1278	ASN	CA-CB	15.57	1.73	1.54
10	L	68	GLU	CG-CD	15.57	1.91	1.52
2	B	313	MET	C-O	15.57	1.44	1.24
6	H	104	PHE	C-O	15.57	1.43	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	136	ASN	C-O	-15.56	1.04	1.23
1	A	895	LYS	CD-CE	15.55	1.99	1.52
1	A	1304	TRP	CA-C	-15.53	1.32	1.52
1	A	1259	MET	SD-CE	15.52	2.18	1.79
10	L	27	LEU	CA-CB	15.51	1.79	1.53
1	A	992	ASP	N-CA	-15.50	1.27	1.46
2	B	547	VAL	CA-CB	-15.50	1.36	1.54
2	B	1078	GLY	C-O	15.49	1.44	1.23
3	C	106	GLU	C-O	15.46	1.42	1.23
2	B	746	SER	C-O	15.45	1.44	1.24
1	A	1446	ASP	CB-CG	15.44	1.90	1.52
2	B	871	THR	CA-CB	15.44	1.78	1.53
3	C	127	ARG	N-CA	15.44	1.65	1.46
1	A	810	PRO	C-O	15.43	1.45	1.24
2	B	787	VAL	CA-C	-15.43	1.33	1.52
1	A	411	ASP	N-CA	15.42	1.65	1.46
9	K	17	SER	C-O	-15.42	1.03	1.23
1	A	107	CYS	CA-C	-15.41	1.33	1.52
3	C	11	ARG	C-O	15.40	1.43	1.24
2	B	1050	ILE	CA-C	-15.39	1.33	1.52
1	A	238	CYS	CA-C	-15.36	1.35	1.52
2	B	848	ARG	N-CA	-15.36	1.25	1.46
1	A	291	GLU	C-O	-15.34	1.05	1.24
2	B	285	ILE	CA-CB	-15.34	1.37	1.54
5	F	92	ARG	CA-C	-15.34	1.33	1.52
1	A	400	PRO	C-O	-15.33	1.04	1.24
2	B	809	MET	SD-CE	-15.33	1.41	1.79
1	A	1277	GLU	N-CA	15.30	1.64	1.46
1	A	660	ASN	N-CA	-15.30	1.26	1.46
2	B	640	VAL	CA-CB	-15.30	1.35	1.54
1	A	7	SER	N-CA	15.28	1.64	1.46
1	A	711	ARG	CA-C	-15.27	1.32	1.52
1	A	502	SER	C-O	-15.26	1.03	1.24
2	B	975	GLN	C-O	-15.21	1.04	1.23
4	E	44	ALA	C-O	15.20	1.43	1.24
1	A	1265	ASN	CA-C	15.20	1.72	1.52
1	A	1034	GLU	C-O	15.17	1.44	1.23
1	A	1140	HIS	C-O	-15.17	1.05	1.23
6	H	131	ASN	CA-C	15.16	1.71	1.52
1	A	1138	ILE	C-O	15.16	1.39	1.23
3	C	41	ILE	CA-CB	-15.15	1.37	1.53
9	K	99	GLY	C-O	15.15	1.44	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	249	ASP	CA-C	15.15	1.73	1.52
1	A	673	GLY	CA-C	-15.14	1.41	1.51
2	B	1077	THR	CA-C	15.13	1.72	1.52
1	A	247	ARG	CA-C	15.13	1.71	1.52
1	A	518	LYS	CD-CE	15.12	1.97	1.52
1	A	1437	GLY	C-O	-15.12	1.04	1.24
2	B	915	THR	CA-CB	15.12	1.85	1.54
1	A	499	ALA	CA-CB	-15.11	1.28	1.53
5	F	121	ALA	C-O	-15.09	1.04	1.24
2	B	1128	LEU	CA-C	15.08	1.73	1.52
2	B	200	GLY	C-O	-15.07	1.04	1.23
4	E	192	ARG	NE-CZ	15.07	1.49	1.33
1	A	941	LYS	CD-CE	15.07	1.97	1.52
2	B	554	ILE	CA-CB	-15.06	1.36	1.54
1	A	874	ASP	CG-OD2	15.05	1.53	1.25
2	B	310	MET	N-CA	-15.05	1.28	1.46
7	I	34	TYR	CE2-CZ	-15.05	1.02	1.38
7	I	106	CYS	CA-C	-15.05	1.31	1.52
1	A	1232	ASN	CB-CG	15.03	1.89	1.52
1	A	1017	LEU	C-O	15.02	1.42	1.24
1	A	144	THR	CA-CB	15.02	1.76	1.53
2	B	845	SER	C-O	15.02	1.41	1.24
1	A	851	HIS	CA-CB	-15.01	1.31	1.53
3	C	166	GLU	N-CA	-15.01	1.27	1.46
1	A	393	ARG	CA-C	-15.01	1.33	1.52
7	I	18	GLU	CA-C	15.00	1.71	1.52
3	C	68	GLY	C-O	15.00	1.41	1.24
2	B	726	ALA	CA-CB	15.00	1.79	1.53
3	C	172	PRO	C-O	14.97	1.43	1.24
2	B	1153	GLU	CA-C	14.97	1.72	1.52
1	A	690	VAL	C-O	-14.96	1.07	1.24
2	B	364	ILE	CA-CB	-14.96	1.34	1.54
1	A	326	ARG	CA-C	14.96	1.72	1.52
1	A	863	VAL	N-CA	-14.96	1.28	1.46
9	K	64	GLU	C-O	-14.96	1.04	1.24
1	A	1176	LEU	CB-CG	14.96	1.83	1.53
2	B	357	GLN	C-O	-14.94	1.04	1.24
1	A	1341	ILE	CA-CB	-14.93	1.35	1.54
4	E	96	PHE	CA-C	14.91	1.71	1.52
2	B	665	GLU	CA-C	-14.90	1.34	1.52
4	E	50	MET	C-O	14.90	1.42	1.24
1	A	1080	THR	CA-CB	14.90	1.78	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	F	146	TRP	CA-C	14.90	1.70	1.52
1	A	1242	VAL	CA-CB	-14.89	1.38	1.54
1	A	1314	SER	C-O	14.88	1.43	1.24
4	E	119	SER	C-O	14.88	1.43	1.24
4	E	66	GLU	CD-OE2	14.87	1.53	1.25
5	F	142	SER	C-O	-14.87	1.05	1.23
1	A	459	ARG	CD-NE	-14.86	1.25	1.46
2	B	237	VAL	C-O	14.85	1.39	1.23
1	A	412	ARG	NE-CZ	-14.85	1.16	1.33
1	A	416	ARG	CZ-NH2	-14.84	1.14	1.33
1	A	560	ILE	C-O	-14.84	1.05	1.24
2	B	305	VAL	CB-CG1	14.83	2.01	1.52
2	B	848	ARG	C-O	14.82	1.43	1.24
1	A	397	ASN	C-O	14.82	1.43	1.24
5	F	83	PRO	C-O	14.82	1.42	1.24
2	B	733	HIS	C-O	14.81	1.42	1.24
1	A	1198	ASP	N-CA	14.80	1.64	1.46
6	H	111	LEU	N-CA	14.80	1.64	1.45
1	A	174	ILE	CA-CB	14.80	1.72	1.54
8	J	13	VAL	CA-CB	-14.80	1.37	1.54
4	E	162	ARG	CZ-NH2	14.79	1.52	1.33
8	J	18	TRP	CA-CB	-14.79	1.29	1.53
1	A	616	VAL	CA-CB	-14.78	1.37	1.54
1	A	761	MET	CA-C	-14.78	1.33	1.52
2	B	598	GLU	N-CA	14.76	1.64	1.46
2	B	980	PHE	C-O	-14.76	1.05	1.23
7	I	91	ARG	NE-CZ	14.75	1.49	1.33
3	C	102	GLN	CB-CG	14.75	1.96	1.52
1	A	1276	VAL	CA-C	-14.74	1.34	1.52
1	A	24	PRO	CA-C	14.73	1.74	1.52
10	L	28	LYS	CA-C	14.73	1.72	1.52
10	L	33	GLU	CA-C	14.73	1.72	1.52
4	E	30	ILE	C-O	-14.72	1.08	1.23
1	A	423	ASP	CB-CG	14.72	1.88	1.52
7	I	56	ALA	C-O	-14.72	1.05	1.24
8	J	42	LYS	CD-CE	14.72	1.96	1.52
1	A	889	SER	CA-C	-14.71	1.32	1.53
1	A	9	ALA	CA-CB	14.71	1.80	1.53
2	B	1154	ALA	CA-CB	14.71	1.77	1.53
1	A	200	ARG	C-O	-14.70	1.05	1.24
2	B	263	GLY	C-O	14.70	1.43	1.23
2	B	594	ALA	CA-C	-14.70	1.32	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	411	ASP	CA-C	-14.70	1.33	1.52
2	B	1149	GLU	CA-C	-14.70	1.33	1.52
6	H	49	VAL	CA-CB	-14.70	1.34	1.54
1	A	1422	ARG	NE-CZ	14.69	1.49	1.33
1	A	1237	ILE	N-CA	-14.69	1.28	1.46
2	B	853	SER	C-O	-14.69	1.05	1.23
3	C	179	GLU	C-O	-14.67	1.05	1.23
4	E	75	MET	C-O	14.67	1.41	1.24
7	I	93	LYS	C-O	14.66	1.41	1.24
1	A	1209	MET	CA-C	-14.66	1.34	1.52
4	E	209	ALA	C-O	-14.65	1.05	1.24
8	J	24	LEU	C-O	-14.64	1.05	1.24
3	C	55	THR	C-O	14.63	1.44	1.24
1	A	84	ILE	C-O	-14.63	1.06	1.24
1	A	889	SER	CA-CB	14.62	1.77	1.53
2	B	175	ARG	CZ-NH1	14.62	1.53	1.32
7	I	34	TYR	CD1-CE1	-14.62	0.94	1.38
1	A	358	ASN	CA-C	-14.62	1.33	1.52
1	A	1309	ASP	CA-C	-14.62	1.34	1.52
1	A	1433	MET	CA-C	-14.62	1.34	1.52
2	B	632	ARG	NE-CZ	-14.62	1.17	1.33
2	B	529	GLU	CD-OE2	14.60	1.53	1.25
3	C	132	PRO	CA-C	-14.60	1.34	1.52
2	B	123	THR	CA-CB	-14.60	1.28	1.53
6	H	104	PHE	CE2-CZ	14.60	1.82	1.38
1	A	1216	ILE	CA-CB	-14.58	1.36	1.54
2	B	1191	ILE	CA-CB	-14.58	1.34	1.54
1	A	752	LYS	CD-CE	14.57	1.96	1.52
2	B	912	ILE	C-N	14.56	1.43	1.33
1	A	1303	GLU	C-O	-14.56	1.06	1.23
1	A	437	MET	SD-CE	14.56	2.15	1.79
2	B	466	TRP	CA-C	14.56	1.72	1.52
2	B	882	THR	N-CA	14.56	1.63	1.46
8	J	14	VAL	CA-C	14.54	1.71	1.52
1	A	346	ASP	CB-CG	14.52	1.88	1.52
2	B	194	GLU	CD-OE2	14.52	1.52	1.25
2	B	667	GLN	C-O	14.51	1.39	1.23
3	C	166	GLU	CD-OE2	14.51	1.52	1.25
4	E	192	ARG	CZ-NH2	14.51	1.52	1.33
4	E	52	ARG	C-O	14.49	1.43	1.24
1	A	475	THR	N-CA	-14.49	1.29	1.46
2	B	124	TYR	CA-CB	-14.47	1.29	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	443	LEU	CA-C	-14.46	1.35	1.52
2	B	112	LEU	CA-C	-14.46	1.35	1.52
2	B	1140	ALA	C-O	14.46	1.41	1.24
3	C	171	GLY	C-O	14.46	1.43	1.24
1	A	974	ASP	CA-C	-14.45	1.35	1.52
2	B	641	GLU	CG-CD	14.45	1.88	1.52
4	E	80	VAL	C-O	14.45	1.40	1.23
2	B	618	ASP	CG-OD1	14.44	1.52	1.25
1	A	1110	ASN	CB-CG	14.44	1.88	1.52
2	B	699	GLU	CA-C	-14.44	1.32	1.52
1	A	995	GLU	C-O	-14.43	1.04	1.24
1	A	1238	ILE	C-O	-14.42	1.07	1.24
1	A	390	GLN	C-O	14.41	1.41	1.24
2	B	986	GLN	CA-C	14.41	1.69	1.52
5	F	129	LYS	CD-CE	14.39	1.95	1.52
2	B	309	GLN	CA-C	14.37	1.71	1.52
7	I	1	MET	SD-CE	14.37	2.15	1.79
2	B	209	GLU	CA-CB	-14.37	1.31	1.53
2	B	850	LEU	CA-CB	-14.35	1.30	1.53
2	B	311	LEU	C-O	14.35	1.41	1.24
5	F	148	VAL	C-O	14.34	1.41	1.24
2	B	181	LEU	C-O	14.34	1.43	1.23
2	B	1143	ALA	CA-CB	-14.34	1.34	1.52
2	B	532	ALA	CA-C	-14.32	1.33	1.52
6	H	26	ILE	C-O	14.32	1.40	1.24
2	B	516	ASN	C-O	-14.31	1.06	1.24
1	A	1211	GLN	CA-C	-14.30	1.34	1.52
2	B	733	HIS	N-CA	14.30	1.64	1.46
1	A	1139	GLU	C-O	14.28	1.41	1.23
4	E	11	ARG	C-O	14.27	1.42	1.24
1	A	695	LYS	CD-CE	14.27	1.95	1.52
2	B	337	ARG	CD-NE	-14.27	1.26	1.46
1	A	205	GLU	C-O	14.26	1.41	1.24
3	C	165	LYS	CE-NZ	14.26	1.92	1.49
2	B	307	ASP	C-O	-14.25	1.06	1.24
1	A	1270	ASN	C-O	14.24	1.43	1.24
1	A	44	THR	N-CA	14.24	1.64	1.46
2	B	736	THR	CB-CG2	14.23	1.99	1.52
1	A	1222	ASN	CB-CG	14.22	1.87	1.52
1	A	875	ALA	CA-CB	-14.20	1.29	1.53
2	B	123	THR	C-O	14.20	1.40	1.23
7	I	112	SER	CA-C	14.20	1.72	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1277	GLU	CD-OE2	14.20	1.52	1.25
1	A	1240	CYS	C-O	-14.20	1.06	1.24
1	A	1050	GLU	N-CA	-14.19	1.28	1.46
3	C	127	ARG	NE-CZ	14.19	1.48	1.33
6	H	136	LYS	CA-CB	14.19	1.77	1.53
5	F	119	ARG	CA-C	-14.18	1.33	1.52
2	B	41	LYS	C-O	14.18	1.41	1.23
2	B	201	GLY	C-O	14.18	1.43	1.23
7	I	111	THR	CA-CB	-14.18	1.31	1.53
2	B	448	ILE	N-CA	14.18	1.62	1.46
1	A	761	MET	SD-CE	14.17	2.15	1.79
3	C	242	GLN	C-O	14.17	1.42	1.24
1	A	123	ARG	CD-NE	14.16	1.66	1.46
3	C	18	VAL	CA-C	-14.16	1.34	1.52
2	B	734	HIS	C-N	14.15	1.52	1.33
2	B	987	LYS	C-O	-14.14	1.05	1.23
5	F	94	LEU	CA-C	-14.12	1.33	1.52
2	B	519	TRP	N-CA	-14.12	1.28	1.46
1	A	234	MET	C-O	14.11	1.42	1.24
1	A	1209	MET	N-CA	-14.11	1.29	1.46
8	J	38	ARG	CA-C	-14.10	1.33	1.52
1	A	1358	SER	CB-OG	14.10	1.70	1.42
2	B	92	PHE	N-CA	14.08	1.63	1.46
1	A	350	ARG	C-O	-14.08	1.08	1.23
2	B	434	ARG	CA-C	14.08	1.70	1.53
3	C	137	LYS	CB-CG	14.08	1.94	1.52
2	B	69	LEU	CA-C	14.07	1.71	1.52
2	B	1097	HIS	CA-C	14.07	1.71	1.52
4	E	133	GLU	C-O	14.07	1.39	1.23
6	H	32	THR	CA-CB	14.06	1.77	1.53
7	I	34	TYR	CZ-OH	14.05	1.67	1.38
1	A	1145	SER	C-O	-14.05	1.06	1.24
2	B	227	LYS	CA-C	-14.05	1.33	1.53
6	H	2	SER	CA-C	14.05	1.82	1.52
2	B	612	GLU	N-CA	-14.03	1.28	1.46
3	C	35	ARG	CB-CG	14.03	1.94	1.52
1	A	1277	GLU	CA-C	-14.02	1.35	1.52
1	A	1280	GLU	CD-OE2	14.01	1.51	1.25
2	B	34	ILE	CA-CB	-14.00	1.37	1.54
2	B	1219	ASP	CB-CG	14.00	1.87	1.52
7	I	120	GLN	CA-C	13.99	1.62	1.52
4	E	210	SER	CA-CB	-13.98	1.33	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	188	ASP	N-CA	13.98	1.64	1.46
2	B	230	ALA	CA-CB	13.98	1.75	1.53
1	A	880	LYS	C-O	-13.95	1.07	1.24
1	A	12	ARG	C-O	-13.94	1.06	1.23
1	A	1289	ARG	NE-CZ	-13.94	1.17	1.33
2	B	172	ILE	C-O	13.94	1.39	1.24
1	A	66	LYS	CB-CG	13.93	1.94	1.52
3	C	97	VAL	C-O	-13.93	1.05	1.24
2	B	1011	ILE	C-O	-13.91	1.08	1.24
1	A	16	GLU	C-O	13.90	1.41	1.23
1	A	805	LEU	CA-C	-13.90	1.35	1.52
2	B	1019	SER	C-O	-13.90	1.07	1.24
7	I	17	ARG	C-O	-13.90	1.06	1.23
1	A	190	ALA	C-O	13.89	1.41	1.24
2	B	1150	ARG	CZ-NH1	13.89	1.52	1.32
2	B	1216	LEU	C-O	13.89	1.41	1.24
9	K	111	LEU	C-O	13.89	1.41	1.24
1	A	677	ARG	NE-CZ	13.88	1.48	1.33
1	A	744	LYS	CA-C	-13.88	1.33	1.52
2	B	137	TYR	N-CA	13.88	1.64	1.46
2	B	846	ILE	CA-CB	13.88	1.71	1.54
3	C	164	ALA	CA-CB	-13.88	1.29	1.53
1	A	899	VAL	CA-CB	-13.86	1.37	1.53
1	A	560	ILE	CA-C	-13.86	1.38	1.52
1	A	660	ASN	CA-C	-13.86	1.36	1.52
2	B	1198	TYR	CA-CB	13.86	1.74	1.53
1	A	35	ILE	CA-C	13.85	1.70	1.52
1	A	938	LYS	CD-CE	13.85	1.94	1.52
2	B	1073	TYR	CA-C	-13.85	1.35	1.52
7	I	60	GLN	C-O	13.85	1.40	1.24
2	B	482	VAL	CA-C	-13.85	1.36	1.52
2	B	904	ARG	NE-CZ	-13.83	1.17	1.33
2	B	1174	LYS	CA-C	13.83	1.71	1.52
1	A	146	MET	SD-CE	-13.83	1.45	1.79
1	A	1207	LEU	CA-C	13.83	1.69	1.52
7	I	103	CYS	C-O	-13.82	1.07	1.23
3	C	96	SER	N-CA	-13.82	1.30	1.46
1	A	932	GLU	CD-OE2	13.81	1.51	1.25
7	I	44	TYR	C-O	13.81	1.42	1.23
1	A	1003	LYS	C-O	13.81	1.40	1.24
2	B	803	LEU	C-O	13.81	1.40	1.24
2	B	365	THR	C-O	13.80	1.40	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1183	LYS	C-O	13.80	1.41	1.24
2	B	789	MET	SD-CE	13.80	2.14	1.79
7	I	29	CYS	CA-C	-13.80	1.35	1.52
1	A	1335	ILE	CA-C	-13.79	1.36	1.52
10	L	43	THR	CA-CB	13.78	1.74	1.53
2	B	249	ARG	NE-CZ	13.77	1.48	1.33
2	B	108	VAL	CA-CB	13.77	1.73	1.54
1	A	128	ILE	CA-CB	13.76	1.67	1.54
1	A	566	ILE	CA-CB	13.76	1.71	1.54
2	B	529	GLU	C-O	13.75	1.41	1.23
2	B	434	ARG	CA-CB	13.75	1.71	1.53
2	B	167	ILE	C-O	13.74	1.40	1.24
2	B	366	GLN	CA-C	13.73	1.71	1.52
7	I	37	GLU	N-CA	-13.73	1.29	1.45
2	B	895	ASP	CB-CG	13.73	1.86	1.52
1	A	1137	ALA	C-O	13.72	1.41	1.24
1	A	655	PHE	CA-C	-13.72	1.34	1.52
7	I	17	ARG	CG-CD	13.72	1.93	1.52
1	A	241	VAL	CA-CB	13.71	1.68	1.53
2	B	266	ALA	C-O	13.70	1.41	1.24
9	K	55	LYS	CD-CE	13.70	1.93	1.52
2	B	25	ILE	CA-C	-13.70	1.38	1.53
9	K	56	VAL	C-O	-13.70	1.07	1.23
1	A	896	ARG	N-CA	-13.69	1.28	1.46
2	B	384	ARG	C-N	-13.69	1.16	1.33
1	A	943	LEU	C-O	-13.68	1.06	1.24
1	A	1441	PHE	C-O	-13.68	1.06	1.23
1	A	1130	GLN	CG-CD	13.68	1.86	1.52
3	C	208	GLU	CA-C	13.67	1.71	1.52
2	B	208	SER	C-O	13.66	1.40	1.24
2	B	135	ARG	C-O	13.65	1.39	1.23
2	B	188	ASP	C-O	13.65	1.41	1.24
1	A	426	LEU	CA-C	-13.65	1.35	1.52
1	A	756	ILE	C-O	13.65	1.40	1.24
3	C	108	GLU	CA-C	13.65	1.69	1.52
3	C	128	ASN	CG-OD1	13.62	1.49	1.23
6	H	50	ALA	N-CA	13.62	1.61	1.45
2	B	118	ARG	CA-CB	13.62	1.74	1.53
2	B	620	ARG	CZ-NH2	13.61	1.51	1.33
1	A	917	SER	C-O	-13.61	1.08	1.24
1	A	162	VAL	CB-CG2	13.61	1.97	1.52
1	A	357	PRO	C-O	13.60	1.42	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	389	THR	C-O	13.58	1.39	1.24
2	B	98	THR	CA-CB	13.58	1.74	1.53
8	J	13	VAL	C-O	-13.58	1.07	1.24
2	B	703	ILE	CA-CB	-13.57	1.36	1.54
1	A	892	ALA	CA-C	-13.57	1.33	1.52
1	A	967	ALA	C-O	-13.56	1.07	1.24
3	C	22	LEU	C-O	-13.56	1.06	1.23
2	B	346	GLU	CG-CD	13.56	1.85	1.52
1	A	731	ARG	CZ-NH2	13.55	1.51	1.33
1	A	1031	VAL	CA-CB	-13.55	1.34	1.54
3	C	122	SER	CB-OG	13.55	1.69	1.42
2	B	284	ILE	CA-CB	-13.55	1.38	1.54
2	B	1069	PHE	C-O	13.54	1.41	1.23
2	B	809	MET	C-N	-13.54	1.16	1.33
3	C	173	ALA	CA-CB	-13.53	1.32	1.53
1	A	404	TYR	C-O	-13.52	1.07	1.23
1	A	888	GLY	C-O	-13.52	1.06	1.23
1	A	1208	THR	CA-CB	13.50	1.73	1.53
1	A	676	MET	CG-SD	13.49	2.14	1.80
2	B	1106	ARG	CA-C	13.49	1.69	1.53
1	A	213	HIS	CA-CB	13.49	1.76	1.53
1	A	496	GLU	CD-OE1	13.49	1.50	1.25
2	B	1018	PRO	CA-C	-13.47	1.31	1.52
1	A	1286	LYS	C-O	-13.47	1.07	1.24
2	B	499	ASN	C-O	-13.47	1.08	1.23
1	A	1222	ASN	CA-C	13.47	1.70	1.52
2	B	1065	GLN	C-O	13.47	1.42	1.23
1	A	50	ILE	N-CA	13.46	1.62	1.46
1	A	110	CYS	CA-CB	13.46	1.74	1.53
1	A	1448	GLU	CA-C	13.46	1.70	1.52
1	A	924	LYS	CA-C	13.46	1.71	1.52
2	B	690	VAL	CB-CG1	-13.45	1.08	1.52
1	A	1351	GLU	C-O	-13.45	1.08	1.24
1	A	1277	GLU	CG-CD	13.45	1.85	1.52
2	B	1100	ASP	CA-C	13.44	1.70	1.52
7	I	3	THR	CA-C	-13.44	1.37	1.53
2	B	983	ARG	NE-CZ	-13.44	1.18	1.33
2	B	385	LEU	N-CA	-13.43	1.30	1.46
4	E	8	ASN	CG-OD1	13.43	1.49	1.23
1	A	709	THR	CA-CB	-13.42	1.30	1.53
2	B	1027	ILE	N-CA	-13.42	1.28	1.46
3	C	123	ASN	CA-CB	13.41	1.70	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	I	31	THR	C-O	-13.40	1.05	1.23
2	B	644	GLU	CA-C	13.40	1.70	1.52
1	A	817	ALA	CA-C	-13.39	1.33	1.52
4	E	99	HIS	C-O	13.39	1.40	1.24
1	A	1187	GLN	CG-CD	13.39	1.85	1.52
2	B	1171	VAL	CA-C	13.39	1.67	1.52
1	A	523	ILE	N-CA	-13.38	1.30	1.46
1	A	962	ARG	C-N	-13.37	1.17	1.34
2	B	543	SER	N-CA	13.37	1.63	1.45
2	B	846	ILE	C-O	13.36	1.39	1.24
3	C	175	ALA	CA-CB	-13.35	1.31	1.53
6	H	132	LEU	CA-C	13.35	1.70	1.52
1	A	836	TYR	N-CA	-13.34	1.30	1.46
4	E	93	MET	SD-CE	13.34	2.12	1.79
1	A	1129	GLU	CA-CB	13.34	1.74	1.53
2	B	312	GLU	CA-C	13.34	1.72	1.52
2	B	339	THR	N-CA	13.33	1.63	1.45
1	A	1228	TRP	CA-C	-13.33	1.36	1.52
1	A	1359	ASP	N-CA	13.32	1.63	1.46
2	B	496	ARG	C-O	13.32	1.42	1.24
4	E	56	LYS	N-CA	-13.32	1.29	1.46
7	I	83	ASN	CB-CG	-13.32	1.18	1.52
2	B	916	THR	CA-C	13.31	1.80	1.52
2	B	191	LYS	CA-C	-13.30	1.34	1.52
2	B	255	GLN	C-O	-13.30	1.06	1.24
2	B	302	CYS	CA-C	-13.30	1.35	1.53
1	A	1199	ARG	C-O	13.29	1.40	1.24
1	A	1256	GLU	N-CA	13.29	1.64	1.46
6	H	26	ILE	CA-CB	-13.29	1.37	1.54
2	B	481	GLN	C-O	13.28	1.41	1.23
1	A	1197	LEU	CA-C	-13.28	1.37	1.52
2	B	212	LEU	C-O	-13.28	1.07	1.24
2	B	502	ILE	CA-CB	13.28	1.90	1.54
2	B	1156	ASP	CB-CG	13.27	1.85	1.52
9	K	105	PHE	C-O	13.26	1.39	1.24
3	C	159	ALA	C-O	-13.26	1.06	1.23
3	C	242	GLN	N-CA	-13.26	1.28	1.46
6	H	27	GLU	C-O	-13.26	1.08	1.23
1	A	458	HIS	C-O	13.25	1.40	1.23
6	H	109	LYS	N-CA	13.25	1.63	1.46
2	B	103	ASN	CB-CG	13.24	1.85	1.52
2	B	810	GLU	CA-CB	13.24	1.73	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	113	GLN	CA-CB	13.24	1.74	1.53
9	K	45	LEU	C-O	-13.23	1.08	1.24
1	A	198	GLU	CA-C	-13.23	1.35	1.53
2	B	194	GLU	C-O	-13.23	1.08	1.24
3	C	186	LEU	CB-CG	-13.21	1.27	1.53
1	A	884	ASP	N-CA	13.21	1.62	1.46
2	B	711	GLU	C-O	13.21	1.41	1.24
2	B	512	ARG	CA-C	13.20	1.70	1.52
2	B	895	ASP	CA-CB	13.20	1.76	1.53
1	A	919	ILE	CA-CB	13.20	1.69	1.54
1	A	384	ASN	N-CA	-13.19	1.30	1.46
1	A	988	LEU	C-O	-13.19	1.07	1.24
1	A	1001	ARG	C-O	13.19	1.40	1.24
1	A	178	GLY	C-O	-13.18	1.06	1.23
9	K	20	LYS	CG-CD	13.18	1.92	1.52
10	L	48	CYS	C-O	13.18	1.35	1.24
3	C	78	GLU	C-O	-13.17	1.04	1.24
2	B	271	ALA	C-O	-13.17	1.07	1.23
2	B	344	LYS	CA-C	13.16	1.69	1.52
2	B	542	MET	N-CA	-13.16	1.31	1.46
2	B	854	LEU	C-O	-13.15	1.07	1.23
3	C	73	GLN	CG-CD	13.15	1.84	1.52
1	A	109	HIS	CA-C	13.15	1.66	1.53
1	A	867	ILE	CA-C	13.14	1.69	1.52
7	I	44	TYR	N-CA	13.13	1.60	1.46
4	E	44	ALA	CA-CB	13.13	1.75	1.53
1	A	151	ASP	C-O	-13.12	1.07	1.24
1	A	209	ASN	CG-OD1	13.12	1.48	1.23
1	A	264	PHE	CB-CG	13.12	1.80	1.50
1	A	1207	LEU	N-CA	13.12	1.61	1.46
3	C	220	ASP	CA-CB	13.12	1.70	1.53
7	I	58	VAL	CA-C	-13.12	1.38	1.53
2	B	137	TYR	CA-CB	13.11	1.75	1.53
2	B	370	PHE	CD1-CE1	13.11	1.77	1.38
1	A	932	GLU	CD-OE1	13.10	1.50	1.25
1	A	972	HIS	C-O	-13.10	1.04	1.23
1	A	1352	VAL	C-O	-13.09	1.08	1.24
2	B	1097	HIS	CE1-NE2	13.09	1.45	1.32
2	B	937	ALA	CA-CB	13.09	1.75	1.53
2	B	961	LEU	CG-CD1	13.08	1.95	1.52
1	A	958	VAL	CA-CB	-13.07	1.36	1.54
5	F	153	VAL	CA-C	-13.07	1.38	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1100	ASP	C-O	13.07	1.39	1.24
9	K	20	LYS	CB-CG	13.06	1.91	1.52
7	I	119	THR	N-CA	13.05	1.62	1.46
2	B	231	PRO	CA-C	13.04	1.72	1.52
1	A	16	GLU	CD-OE2	13.03	1.50	1.25
9	K	30	ALA	CA-CB	-13.03	1.31	1.53
1	A	97	ALA	CA-C	-13.03	1.34	1.52
1	A	721	PHE	C-O	13.02	1.39	1.24
2	B	997	GLU	C-O	-13.02	1.08	1.24
1	A	89	PRO	C-O	-13.01	1.08	1.23
2	B	226	PHE	CD1-CE1	13.01	1.77	1.38
1	A	367	PRO	CA-CB	-13.01	1.36	1.53
3	C	171	GLY	CA-C	13.01	1.70	1.51
1	A	420	ARG	CZ-NH2	-12.99	1.16	1.33
1	A	1120	LEU	C-O	-12.99	1.07	1.23
8	J	52	THR	C-O	12.99	1.42	1.24
1	A	1354	ASN	C-O	-12.98	1.09	1.24
2	B	975	GLN	CD-OE1	12.98	1.48	1.23
1	A	455	MET	SD-CE	-12.98	1.47	1.79
1	A	1262	LYS	CG-CD	12.98	1.91	1.52
2	B	822	ASN	CA-C	-12.98	1.36	1.52
1	A	326	ARG	NE-CZ	12.98	1.47	1.33
2	B	174	LEU	C-O	-12.97	1.07	1.23
4	E	201	LYS	CG-CD	12.97	1.91	1.52
1	A	446	ARG	C-O	-12.97	1.08	1.24
3	C	223	ALA	CA-C	-12.97	1.35	1.53
1	A	850	VAL	C-O	-12.97	1.07	1.24
2	B	577	ALA	CA-C	-12.96	1.35	1.52
10	L	67	PHE	C-O	-12.96	1.08	1.23
2	B	394	ASP	CG-OD2	12.96	1.50	1.25
2	B	654	ARG	CA-C	-12.96	1.36	1.52
4	E	71	LYS	N-CA	12.96	1.62	1.46
4	E	157	SER	CA-CB	12.95	1.75	1.53
5	F	120	ILE	C-O	-12.96	1.07	1.24
2	B	319	GLU	C-O	12.95	1.40	1.24
1	A	862	ASN	CA-C	12.94	1.70	1.53
4	E	155	ARG	NE-CZ	12.94	1.47	1.33
3	C	150	GLY	N-CA	12.94	1.62	1.45
2	B	25	ILE	N-CA	12.93	1.63	1.46
1	A	1226	VAL	CA-CB	-12.93	1.35	1.54
1	A	21	LEU	CA-C	12.92	1.68	1.52
2	B	415	GLN	CA-CB	12.92	1.73	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	699	ALA	C-O	-12.91	1.06	1.24
1	A	190	ALA	CA-C	12.91	1.70	1.52
2	B	1182	CYS	CA-CB	12.91	1.69	1.52
9	K	102	LYS	CD-CE	12.91	1.91	1.52
1	A	1435	PRO	CA-CB	-12.90	1.38	1.53
1	A	767	GLN	C-O	-12.90	1.08	1.23
1	A	983	ILE	CB-CG2	-12.89	1.10	1.52
1	A	1433	MET	SD-CE	-12.89	1.47	1.79
1	A	551	TYR	C-O	12.88	1.40	1.24
2	B	1102	LYS	N-CA	12.88	1.62	1.46
2	B	723	VAL	CB-CG1	12.87	1.95	1.52
1	A	1227	ILE	N-CA	-12.87	1.30	1.46
2	B	392	ARG	NE-CZ	-12.86	1.19	1.33
1	A	1077	THR	C-O	-12.85	1.09	1.24
4	E	41	ASP	CB-CG	12.85	1.84	1.52
1	A	1319	VAL	N-CA	-12.85	1.30	1.46
2	B	66	ASP	CA-C	12.84	1.70	1.52
2	B	1074	ASN	C-O	-12.84	1.07	1.24
10	L	41	SER	N-CA	12.84	1.62	1.46
1	A	938	LYS	CG-CD	12.82	1.91	1.52
7	I	34	TYR	CB-CG	12.81	1.79	1.51
2	B	1085	ILE	N-CA	-12.81	1.30	1.46
3	C	24	ASN	C-O	12.81	1.38	1.23
1	A	645	LEU	C-O	-12.80	1.09	1.24
1	A	569	LYS	C-O	-12.79	1.06	1.24
4	E	177	ARG	C-O	-12.79	1.07	1.23
2	B	203	PHE	C-O	12.79	1.41	1.23
1	A	238	CYS	C-O	-12.78	1.08	1.24
1	A	1221	LYS	C-O	12.78	1.40	1.24
2	B	106	ASP	CB-CG	12.78	1.83	1.52
1	A	780	VAL	C-O	12.77	1.35	1.23
2	B	945	GLU	CA-C	12.77	1.68	1.52
10	L	62	LYS	CD-CE	12.76	1.90	1.52
1	A	218	ASP	CG-OD2	12.76	1.49	1.25
1	A	864	ILE	N-CA	-12.76	1.30	1.45
8	J	51	LEU	C-O	12.76	1.40	1.24
9	K	107	THR	C-O	12.76	1.39	1.24
1	A	464	PRO	CA-C	-12.75	1.34	1.52
3	C	229	TYR	CA-C	12.75	1.68	1.53
1	A	639	PRO	CA-C	12.74	1.70	1.52
2	B	1176	ASN	N-CA	12.74	1.61	1.46
2	B	257	LYS	CA-C	-12.74	1.37	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	650	GLU	CD-OE2	12.74	1.49	1.25
3	C	129	ILE	CA-CB	12.73	1.69	1.55
6	H	123	MET	CA-C	-12.73	1.37	1.52
2	B	751	VAL	CA-CB	-12.72	1.39	1.54
3	C	191	TYR	C-O	-12.72	1.08	1.23
9	K	110	ASN	CB-CG	12.71	1.83	1.52
1	A	27	VAL	CA-CB	-12.71	1.39	1.54
3	C	246	ARG	N-CA	-12.71	1.30	1.46
1	A	302	THR	C-O	12.71	1.39	1.24
2	B	823	ALA	CA-C	-12.71	1.36	1.52
4	E	162	ARG	CB-CG	12.71	1.90	1.52
1	A	43	GLU	CA-C	12.70	1.69	1.52
1	A	758	ILE	CA-CB	-12.70	1.38	1.54
1	A	1057	VAL	CA-CB	12.70	1.68	1.54
7	I	34	TYR	CE1-CZ	-12.69	1.07	1.38
1	A	1029	ARG	C-O	-12.69	1.09	1.24
9	K	111	LEU	CA-C	12.69	1.69	1.52
1	A	460	VAL	N-CA	-12.68	1.30	1.46
2	B	785	TYR	C-O	12.68	1.40	1.24
7	I	45	ARG	CD-NE	12.68	1.64	1.46
2	B	811	TYR	N-CA	-12.68	1.29	1.46
2	B	1020	ARG	CZ-NH2	12.68	1.50	1.33
1	A	1230	GLU	CD-OE1	12.68	1.49	1.25
1	A	1209	MET	C-O	-12.67	1.09	1.24
3	C	249	ASP	CA-CB	12.67	1.74	1.53
6	H	60	ALA	CA-C	-12.67	1.37	1.52
1	A	583	PRO	CA-C	12.66	1.67	1.53
1	A	1428	VAL	CA-CB	-12.66	1.40	1.54
2	B	60	GLN	C-O	-12.65	1.09	1.24
1	A	1419	ASP	CG-OD1	12.64	1.49	1.25
2	B	479	VAL	C-O	-12.64	1.07	1.24
9	K	91	CYS	CA-C	12.64	1.69	1.52
1	A	613	ILE	C-O	-12.63	1.09	1.23
3	C	126	GLY	C-O	12.63	1.41	1.23
1	A	1357	ALA	C-O	-12.62	1.07	1.24
8	J	5	VAL	CA-CB	12.62	1.69	1.54
1	A	1098	VAL	CA-C	-12.62	1.39	1.52
2	B	136	THR	N-CA	12.61	1.62	1.46
1	A	69	THR	CA-CB	12.61	1.74	1.53
2	B	652	LYS	CE-NZ	12.61	1.87	1.49
1	A	734	GLU	CD-OE2	12.61	1.49	1.25
2	B	1008	PRO	CA-C	-12.61	1.38	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	156	THR	CA-C	-12.61	1.37	1.52
9	K	41	THR	C-O	-12.61	1.09	1.24
1	A	491	VAL	CA-CB	-12.60	1.39	1.54
1	A	1141	THR	C-O	12.60	1.37	1.23
2	B	883	LEU	CB-CG	12.60	1.78	1.53
1	A	741	ASN	C-O	-12.60	1.08	1.24
2	B	436	VAL	CA-C	12.59	1.68	1.52
1	A	1434	ALA	CA-CB	-12.59	1.33	1.53
1	A	1417	GLU	CA-CB	12.59	1.74	1.53
1	A	300	VAL	CA-C	12.58	1.68	1.52
7	I	48	LEU	CG-CD2	-12.58	1.11	1.52
1	A	1332	PHE	N-CA	-12.57	1.30	1.46
2	B	136	THR	C-O	12.57	1.39	1.23
1	A	1374	VAL	C-O	12.55	1.39	1.24
2	B	1101	ASP	CA-C	12.55	1.70	1.52
1	A	1268	LEU	CA-CB	-12.55	1.33	1.53
2	B	231	PRO	CB-CG	12.55	2.12	1.49
6	H	115	TYR	C-O	-12.54	1.06	1.23
1	A	564	ALA	C-O	-12.53	1.07	1.24
2	B	969	ARG	N-CA	-12.53	1.30	1.46
7	I	1	MET	CB-CG	12.52	1.90	1.52
6	H	123	MET	C-O	-12.52	1.08	1.23
2	B	1099	VAL	CA-CB	-12.51	1.37	1.54
3	C	253	LYS	CA-C	12.51	1.69	1.52
2	B	375	ALA	CA-CB	-12.51	1.33	1.53
9	K	109	TRP	N-CA	-12.51	1.29	1.46
1	A	912	LEU	CA-C	-12.51	1.35	1.52
2	B	414	ALA	CA-CB	-12.51	1.32	1.53
4	E	129	PRO	CG-CD	12.50	1.85	1.51
2	B	376	PHE	C-O	-12.50	1.09	1.24
4	E	151	PRO	C-O	-12.49	1.07	1.24
1	A	804	TYR	CA-CB	-12.49	1.32	1.53
1	A	1448	GLU	N-CA	12.49	1.62	1.46
1	A	664	THR	N-CA	12.49	1.61	1.46
1	A	739	ASP	N-CA	-12.49	1.30	1.46
9	K	34	THR	C-O	12.49	1.39	1.24
9	K	14	GLU	CA-C	12.49	1.68	1.52
1	A	460	VAL	C-O	-12.48	1.09	1.24
1	A	81	PHE	CE2-CZ	-12.48	1.01	1.38
2	B	380	TYR	N-CA	-12.47	1.31	1.46
2	B	1075	GLY	CA-C	12.47	1.67	1.51
2	B	996	ARG	CD-NE	12.46	1.63	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1367	HIS	CA-CB	-12.46	1.33	1.53
2	B	1196	ILE	CA-C	12.46	1.65	1.52
1	A	532	ARG	C-O	-12.46	1.09	1.24
2	B	527	THR	CB-OG1	12.46	1.63	1.43
1	A	872	GLY	CA-C	-12.46	1.34	1.51
1	A	1170	ILE	CA-CB	12.45	1.71	1.54
2	B	1023	VAL	CB-CG1	-12.44	1.11	1.52
9	K	51	LEU	CA-C	12.44	1.72	1.52
2	B	286	PHE	C-O	-12.44	1.09	1.24
6	H	84	ALA	CA-CB	12.44	1.73	1.53
2	B	591	ARG	NE-CZ	12.43	1.46	1.33
1	A	771	GLU	CD-OE2	12.43	1.49	1.25
2	B	531	GLN	CG-CD	12.43	1.83	1.52
1	A	66	LYS	CA-C	12.43	1.66	1.52
2	B	227	LYS	CD-CE	12.43	1.89	1.52
10	L	66	GLN	C-O	-12.43	1.07	1.23
1	A	1326	ARG	CG-CD	-12.42	1.15	1.52
1	A	1042	PHE	CA-C	-12.42	1.37	1.52
3	C	175	ALA	CA-C	-12.42	1.36	1.53
2	B	1149	GLU	C-O	-12.41	1.08	1.24
1	A	5	GLN	CB-CG	12.41	1.89	1.52
6	H	104	PHE	CG-CD1	12.41	1.65	1.38
1	A	613	ILE	CA-C	-12.41	1.34	1.53
2	B	520	GLY	C-N	-12.41	1.16	1.33
1	A	1307	GLU	CD-OE1	12.40	1.49	1.25
1	A	388	LEU	CA-C	12.40	1.69	1.52
4	E	91	LYS	C-O	12.40	1.38	1.24
1	A	722	LEU	C-O	-12.39	1.08	1.24
1	A	983	ILE	CA-C	-12.39	1.37	1.52
1	A	1255	GLU	CA-C	12.38	1.69	1.52
1	A	993	LEU	C-O	-12.38	1.09	1.24
1	A	1063	MET	CG-SD	-12.38	1.49	1.80
1	A	757	ASN	CA-CB	-12.38	1.34	1.53
1	A	1326	ARG	CA-CB	12.38	1.71	1.54
8	J	2	ILE	C-O	-12.38	1.09	1.23
1	A	919	ILE	N-CA	12.37	1.59	1.46
1	A	163	SER	N-CA	12.37	1.61	1.45
1	A	214	ILE	C-O	12.37	1.40	1.24
1	A	737	LEU	C-O	12.36	1.39	1.23
1	A	1109	LYS	CB-CG	12.36	1.89	1.52
3	C	173	ALA	C-O	12.35	1.38	1.23
5	F	93	ILE	C-O	-12.35	1.10	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	F	80	ALA	N-CA	-12.35	1.28	1.45
1	A	1132	LYS	CD-CE	12.35	1.89	1.52
1	A	49	LYS	CD-CE	12.34	1.89	1.52
1	A	519	PRO	N-CA	-12.33	1.31	1.47
1	A	677	ARG	CZ-NH1	12.33	1.50	1.32
2	B	305	VAL	C-O	12.33	1.41	1.24
2	B	416	LEU	CA-C	-12.33	1.39	1.53
1	A	359	LEU	C-O	12.33	1.38	1.23
2	B	18	PHE	CB-CG	12.33	1.79	1.50
2	B	531	GLN	CB-CG	12.33	1.89	1.52
2	B	368	GLU	CA-CB	12.32	1.72	1.53
1	A	730	GLY	CA-C	-12.31	1.34	1.51
2	B	654	ARG	CA-CB	-12.31	1.32	1.53
2	B	1030	LEU	N-CA	-12.31	1.31	1.46
3	C	110	THR	CA-C	-12.31	1.37	1.52
2	B	217	ARG	NE-CZ	-12.31	1.19	1.33
7	I	42	LEU	CA-C	-12.31	1.37	1.52
9	K	69	ALA	CA-C	-12.31	1.37	1.52
3	C	177	GLU	CA-C	-12.31	1.36	1.52
2	B	646	LEU	CG-CD2	12.30	1.93	1.52
2	B	659	ALA	CA-CB	12.30	1.73	1.53
2	B	825	VAL	CA-CB	-12.29	1.38	1.54
1	A	720	ARG	NE-CZ	12.29	1.46	1.33
1	A	414	ASP	C-O	-12.29	1.09	1.23
2	B	571	PRO	C-O	-12.29	1.08	1.24
4	E	161	LYS	CD-CE	12.29	1.89	1.52
3	C	50	GLU	CG-CD	12.28	1.82	1.52
2	B	115	GLN	CB-CG	12.28	1.89	1.52
1	A	297	GLN	C-O	-12.27	1.08	1.24
2	B	164	LYS	CD-CE	12.27	1.89	1.52
10	L	34	CYS	C-O	-12.26	1.07	1.24
4	E	207	ARG	N-CA	-12.26	1.30	1.45
1	A	193	ASP	CA-CB	12.26	1.74	1.53
1	A	1015	VAL	CB-CG2	-12.25	1.12	1.52
5	F	86	THR	C-O	-12.24	1.07	1.23
5	F	119	ARG	C-O	12.24	1.39	1.24
7	I	7	CYS	CA-CB	12.24	1.73	1.53
1	A	1066	VAL	CA-C	-12.24	1.37	1.52
1	A	1102	LYS	CG-CD	12.23	1.89	1.52
8	J	7	CYS	CA-CB	12.23	1.73	1.53
2	B	70	ILE	CA-CB	12.23	1.87	1.54
7	I	25	LEU	C-O	-12.23	1.09	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	I	45	ARG	N-CA	12.22	1.61	1.46
1	A	961	ARG	CZ-NH2	12.22	1.49	1.33
1	A	648	ASN	C-O	-12.21	1.08	1.24
1	A	1303	GLU	N-CA	-12.21	1.30	1.45
3	C	140	ASN	CG-OD1	12.21	1.46	1.23
3	C	194	GLU	CA-C	-12.21	1.40	1.53
1	A	1001	ARG	CA-C	12.21	1.69	1.52
3	C	260	LEU	CG-CD1	12.21	1.92	1.52
5	F	74	ILE	CA-C	-12.21	1.40	1.52
2	B	239	GLU	CD-OE2	12.20	1.48	1.25
1	A	528	LEU	CA-C	-12.20	1.37	1.52
1	A	911	SER	C-O	12.20	1.39	1.24
1	A	1144	LYS	CD-CE	12.20	1.89	1.52
1	A	1150	SER	C-O	-12.19	1.08	1.23
1	A	1272	THR	C-O	12.19	1.38	1.24
1	A	651	LYS	C-O	12.18	1.38	1.24
6	H	80	ARG	NE-CZ	12.18	1.46	1.33
2	B	52	ASN	CG-ND2	12.18	1.58	1.33
3	C	153	LEU	C-O	12.18	1.37	1.23
1	A	87	ALA	N-CA	-12.18	1.31	1.46
1	A	269	ILE	CA-CB	-12.17	1.38	1.54
2	B	840	ILE	CA-CB	-12.17	1.39	1.54
1	A	601	LYS	CD-CE	12.17	1.89	1.52
1	A	684	ALA	CA-CB	12.16	1.72	1.53
1	A	527	THR	C-O	-12.16	1.08	1.24
2	B	1212	ILE	CA-CB	-12.16	1.39	1.54
2	B	409	ALA	CA-CB	-12.15	1.32	1.53
1	A	214	ILE	C-N	12.14	1.49	1.33
1	A	87	ALA	CA-C	-12.14	1.37	1.52
2	B	52	ASN	N-CA	-12.13	1.31	1.46
2	B	634	TYR	N-CA	-12.13	1.30	1.45
9	K	63	VAL	CA-C	-12.12	1.37	1.52
1	A	217	LYS	CA-C	12.12	1.68	1.52
7	I	36	GLU	CA-CB	-12.11	1.33	1.53
7	I	17	ARG	CA-C	-12.11	1.37	1.52
2	B	723	VAL	N-CA	12.10	1.60	1.46
10	L	44	ASP	C-O	12.10	1.39	1.24
3	C	135	GLN	CA-C	12.09	1.69	1.52
4	E	152	LYS	CD-CE	12.08	1.88	1.52
1	A	488	ASN	C-O	-12.07	1.09	1.23
1	A	167	CYS	N-CA	12.07	1.61	1.46
2	B	137	TYR	CB-CG	12.07	1.78	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	134	ILE	N-CA	12.06	1.61	1.46
2	B	1071	VAL	C-O	12.05	1.40	1.24
3	C	121	VAL	CA-CB	12.05	1.70	1.54
7	I	46	HIS	CA-C	-12.05	1.40	1.53
2	B	603	LEU	N-CA	-12.04	1.31	1.46
2	B	899	ILE	CA-CB	-12.04	1.38	1.54
1	A	528	LEU	C-O	-12.03	1.10	1.24
2	B	1057	LYS	CG-CD	12.03	1.88	1.52
10	L	47	ARG	NE-CZ	12.03	1.46	1.33
1	A	699	ALA	CA-CB	-12.02	1.32	1.53
1	A	801	GLU	CD-OE1	12.02	1.48	1.25
1	A	394	ASN	CA-CB	-12.02	1.34	1.53
7	I	13	MET	N-CA	-12.02	1.30	1.46
1	A	813	PHE	N-CA	-12.02	1.31	1.46
3	C	204	SER	C-O	12.02	1.39	1.23
4	E	133	GLU	CD-OE1	12.02	1.48	1.25
6	H	136	LYS	N-CA	12.02	1.61	1.46
1	A	655	PHE	N-CA	12.01	1.60	1.46
2	B	945	GLU	C-O	12.01	1.37	1.23
2	B	1048	THR	CA-C	-12.01	1.36	1.53
3	C	116	LYS	CD-CE	11.99	1.88	1.52
3	C	22	LEU	CA-C	-11.99	1.35	1.53
1	A	603	ASN	C-O	-11.99	1.08	1.23
2	B	607	GLY	C-O	-11.99	1.08	1.24
2	B	668	ASP	CB-CG	11.99	1.82	1.52
7	I	57	GLY	CA-C	-11.99	1.34	1.51
2	B	987	LYS	CE-NZ	11.98	1.85	1.49
1	A	646	PHE	C-O	-11.98	1.09	1.24
1	A	653	VAL	CB-CG2	-11.98	1.13	1.52
1	A	956	LEU	C-O	-11.98	1.13	1.24
7	I	70	ARG	NE-CZ	-11.98	1.19	1.33
1	A	1208	THR	CA-C	11.98	1.68	1.52
5	F	79	ARG	CA-C	11.98	1.68	1.52
3	C	89	GLU	CA-C	-11.97	1.38	1.52
7	I	50	THR	C-O	-11.97	1.08	1.23
1	A	1283	VAL	CA-CB	-11.97	1.39	1.54
1	A	1093	LYS	CG-CD	11.96	1.88	1.52
4	E	175	LEU	C-N	-11.96	1.18	1.33
2	B	1102	LYS	CA-CB	11.95	1.73	1.53
1	A	703	THR	CB-CG2	11.95	1.92	1.52
2	B	864	LYS	CA-C	11.95	1.68	1.52
1	A	45	GLN	CA-C	11.94	1.68	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	I	118	ARG	CD-NE	11.94	1.62	1.46
2	B	1166	CYS	CA-CB	11.94	1.69	1.53
1	A	995	GLU	CA-C	-11.94	1.36	1.52
1	A	839	ARG	NE-CZ	11.93	1.46	1.33
1	A	96	ILE	CA-C	11.93	1.67	1.52
1	A	482	PHE	CA-CB	-11.92	1.37	1.53
1	A	589	GLN	CA-C	-11.92	1.38	1.52
1	A	1368	MET	CG-SD	-11.92	1.50	1.80
2	B	346	GLU	CD-OE1	11.92	1.48	1.25
1	A	966	ASN	N-CA	-11.91	1.32	1.46
1	A	1198	ASP	C-O	11.91	1.38	1.24
3	C	132	PRO	N-CA	-11.91	1.33	1.47
3	C	204	SER	CA-C	11.91	1.68	1.52
1	A	885	THR	N-CA	-11.91	1.30	1.46
2	B	284	ILE	N-CA	-11.91	1.32	1.46
2	B	958	GLN	N-CA	11.91	1.61	1.46
1	A	1237	ILE	C-O	11.90	1.35	1.24
2	B	1108	ARG	CA-C	11.90	1.68	1.52
4	E	17	ARG	CZ-NH1	11.90	1.49	1.32
2	B	1174	LYS	N-CA	11.90	1.61	1.46
8	J	3	VAL	CA-CB	-11.90	1.38	1.54
1	A	297	GLN	CA-C	-11.89	1.36	1.52
2	B	962	LYS	CD-CE	11.89	1.88	1.52
1	A	632	VAL	C-O	-11.89	1.10	1.24
3	C	82	TYR	CZ-OH	11.88	1.63	1.38
1	A	1048	ASN	C-O	11.88	1.37	1.24
2	B	637	LEU	N-CA	-11.88	1.30	1.45
2	B	800	GLN	CD-NE2	11.88	1.58	1.33
1	A	1127	ASP	CA-CB	11.88	1.67	1.52
1	A	1364	ASN	C-O	11.88	1.38	1.23
3	C	26	ASP	CG-OD1	11.88	1.48	1.25
1	A	624	SER	N-CA	11.86	1.61	1.46
1	A	992	ASP	CB-CG	11.86	1.81	1.52
1	A	182	VAL	C-N	-11.86	1.22	1.34
6	H	19	ARG	CA-CB	11.86	1.73	1.53
2	B	104	GLU	CA-C	11.85	1.68	1.52
2	B	707	PRO	N-CD	-11.85	1.31	1.47
2	B	268	THR	CA-CB	11.85	1.72	1.53
6	H	17	PRO	CA-C	11.85	1.66	1.52
10	L	46	VAL	C-O	-11.85	1.09	1.24
2	B	910	VAL	C-O	-11.85	1.12	1.24
7	I	32	CYS	C-O	11.84	1.39	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	821	ARG	N-CA	-11.84	1.31	1.46
3	C	124	LEU	CG-CD1	11.84	1.91	1.52
2	B	283	VAL	C-O	-11.83	1.08	1.24
2	B	1094	ARG	CA-C	-11.82	1.38	1.52
2	B	661	LEU	C-O	-11.82	1.10	1.24
2	B	349	ILE	CA-CB	-11.81	1.41	1.54
1	A	39	GLU	CA-C	11.81	1.67	1.52
7	I	93	LYS	CA-CB	11.81	1.71	1.53
1	A	1283	VAL	CA-C	11.80	1.66	1.52
7	I	54	GLU	CD-OE1	11.80	1.47	1.25
1	A	599	SER	CA-C	-11.80	1.38	1.52
3	C	172	PRO	CA-C	-11.80	1.35	1.52
5	F	129	LYS	CE-NZ	11.80	1.84	1.49
1	A	1256	GLU	CA-C	11.80	1.72	1.52
4	E	66	GLU	C-O	11.79	1.38	1.24
1	A	205	GLU	N-CA	-11.79	1.31	1.46
1	A	1381	LEU	C-N	-11.79	1.17	1.33
7	I	75	CYS	CA-C	-11.79	1.39	1.53
2	B	822	ASN	C-O	-11.79	1.08	1.23
1	A	739	ASP	C-O	11.79	1.38	1.24
1	A	911	SER	CA-CB	11.79	1.73	1.53
4	E	123	LEU	CA-C	11.79	1.68	1.52
9	K	27	ALA	CA-CB	11.79	1.71	1.54
1	A	115	LEU	C-O	11.79	1.38	1.23
1	A	1368	MET	C-O	-11.79	1.08	1.24
6	H	96	VAL	N-CA	-11.78	1.32	1.46
2	B	634	TYR	CA-C	-11.78	1.38	1.52
4	E	208	TYR	C-O	11.78	1.38	1.23
2	B	390	LEU	C-O	11.77	1.39	1.24
9	K	12	LEU	CA-C	-11.77	1.37	1.52
2	B	595	ARG	CG-CD	11.76	1.87	1.52
4	E	43	LYS	CD-CE	11.75	1.87	1.52
9	K	37	LYS	C-O	11.75	1.38	1.23
1	A	122	MET	SD-CE	11.75	2.08	1.79
1	A	385	ILE	CA-C	-11.75	1.39	1.52
1	A	786	HIS	CA-CB	-11.75	1.33	1.53
1	A	1362	TYR	C-O	-11.74	1.10	1.23
1	A	699	ALA	CA-C	11.74	1.69	1.52
1	A	1367	HIS	C-N	-11.74	1.17	1.33
1	A	469	ARG	CZ-NH2	-11.73	1.18	1.33
2	B	938	SER	CA-C	-11.73	1.38	1.52
1	A	511	ILE	CA-CB	-11.73	1.41	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	341	LEU	CA-C	-11.73	1.36	1.52
3	C	223	ALA	CA-CB	-11.73	1.34	1.53
1	A	187	LYS	CA-C	11.73	1.68	1.52
2	B	1151	LEU	C-O	-11.72	1.08	1.24
2	B	118	ARG	CA-C	11.72	1.67	1.52
3	C	240	VAL	CA-C	-11.72	1.39	1.52
2	B	810	GLU	N-CA	-11.72	1.32	1.46
7	I	41	PRO	CA-C	-11.72	1.41	1.52
1	A	1188	GLN	N-CA	11.71	1.60	1.46
1	A	998	LEU	C-O	-11.71	1.09	1.24
1	A	1430	LEU	C-O	11.71	1.39	1.24
2	B	595	ARG	C-O	-11.71	1.10	1.24
3	C	209	TYR	CD2-CE2	11.70	1.73	1.38
4	E	121	MET	CG-SD	11.70	2.10	1.80
10	L	26	THR	N-CA	11.70	1.61	1.46
10	L	69	ALA	N-CA	11.70	1.63	1.46
1	A	537	ARG	CZ-NH2	11.69	1.48	1.33
2	B	454	THR	N-CA	11.69	1.60	1.46
1	A	686	ALA	CA-CB	-11.69	1.34	1.53
1	A	460	VAL	CA-C	-11.69	1.39	1.52
1	A	825	ILE	C-O	-11.68	1.09	1.24
1	A	736	ASN	C-N	-11.68	1.16	1.33
1	A	377	PRO	N-CA	-11.67	1.32	1.47
4	E	24	LYS	CE-NZ	11.67	1.84	1.49
9	K	50	LEU	C-O	-11.67	1.09	1.24
2	B	743	ILE	CA-C	-11.67	1.38	1.52
2	B	1219	ASP	CA-CB	11.67	1.70	1.53
2	B	1210	MET	SD-CE	11.67	2.08	1.79
1	A	1157	ASP	CA-CB	11.66	1.69	1.53
2	B	1018	PRO	C-O	-11.66	1.10	1.24
1	A	1176	LEU	CA-CB	11.65	1.76	1.53
4	E	23	VAL	C-O	11.65	1.37	1.24
1	A	52	GLY	C-O	-11.65	1.08	1.23
1	A	919	ILE	C-O	-11.65	1.10	1.24
3	C	254	LYS	CA-C	-11.65	1.38	1.52
4	E	187	TYR	CA-C	-11.65	1.37	1.52
4	E	68	SER	CA-C	-11.65	1.38	1.52
5	F	93	ILE	CA-CB	-11.64	1.42	1.54
1	A	578	LEU	N-CA	11.64	1.60	1.46
1	A	1135	ARG	NE-CZ	11.64	1.45	1.33
2	B	556	THR	C-O	11.64	1.39	1.24
2	B	598	GLU	CD-OE2	11.64	1.47	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	563	PRO	C-O	-11.64	1.10	1.23
2	B	255	GLN	N-CA	-11.63	1.31	1.46
2	B	589	VAL	C-O	-11.63	1.10	1.23
2	B	709	ASP	CA-C	-11.63	1.37	1.52
2	B	513	GLN	C-O	11.63	1.38	1.23
1	A	864	ILE	C-O	11.62	1.35	1.23
1	A	506	ALA	CA-C	-11.62	1.38	1.52
4	E	50	MET	CG-SD	11.62	2.09	1.80
1	A	975	HIS	CA-CB	11.62	1.75	1.53
6	H	3	ASN	CB-CG	11.62	1.81	1.52
6	H	19	ARG	NE-CZ	11.62	1.45	1.33
1	A	830	LYS	CG-CD	11.62	1.87	1.52
1	A	1444	MET	N-CA	11.61	1.60	1.45
1	A	225	ASN	C-O	11.61	1.37	1.24
5	F	77	ASP	CG-OD1	11.61	1.47	1.25
1	A	582	ILE	C-O	11.61	1.39	1.24
2	B	96	TYR	N-CA	11.61	1.60	1.45
1	A	591	PHE	CA-C	-11.61	1.39	1.52
1	A	681	GLU	CD-OE2	11.61	1.47	1.25
1	A	1345	ARG	NE-CZ	-11.61	1.20	1.33
5	F	101	ILE	CA-CB	-11.61	1.40	1.54
1	A	1168	GLU	CA-CB	11.60	1.73	1.53
1	A	656	TRP	CD2-CE3	-11.60	1.21	1.40
3	C	55	THR	CA-C	11.60	1.67	1.52
1	A	718	VAL	CA-CB	-11.60	1.38	1.54
1	A	1024	SER	CA-C	-11.60	1.37	1.52
1	A	1237	ILE	CA-CB	-11.60	1.38	1.54
2	B	327	ARG	CZ-NH2	11.60	1.48	1.33
2	B	514	LEU	CA-CB	-11.59	1.36	1.53
7	I	28	GLU	N-CA	-11.59	1.31	1.45
1	A	1363	VAL	CA-CB	-11.59	1.40	1.54
2	B	763	GLN	CA-C	-11.59	1.38	1.52
1	A	157	ASP	CB-CG	11.58	1.81	1.52
1	A	563	PRO	CA-C	-11.58	1.37	1.52
9	K	4	PRO	C-O	-11.58	1.12	1.23
2	B	660	LYS	N-CA	-11.58	1.31	1.46
9	K	34	THR	CA-CB	-11.58	1.37	1.53
1	A	1001	ARG	CZ-NH2	11.58	1.48	1.33
1	A	558	GLY	C-O	-11.57	1.08	1.23
2	B	1057	LYS	C-O	11.57	1.37	1.24
4	E	30	ILE	CA-C	-11.57	1.38	1.52
1	A	90	VAL	N-CA	-11.57	1.33	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	756	ILE	CA-CB	-11.57	1.40	1.54
1	A	967	ALA	CA-CB	-11.57	1.33	1.53
1	A	1291	VAL	CA-C	11.57	1.64	1.52
1	A	1297	GLU	N-CA	-11.57	1.31	1.45
6	H	29	ALA	CA-C	11.57	1.68	1.52
1	A	412	ARG	CZ-NH2	-11.56	1.18	1.33
2	B	711	GLU	CA-C	11.56	1.67	1.52
9	K	107	THR	N-CA	11.56	1.60	1.46
3	C	177	GLU	C-O	-11.55	1.09	1.24
2	B	557	PHE	C-O	11.55	1.37	1.24
7	I	41	PRO	C-N	-11.55	1.17	1.33
2	B	629	ASP	C-O	-11.55	1.09	1.23
4	E	209	ALA	CA-C	-11.55	1.39	1.52
1	A	205	GLU	CD-OE1	11.55	1.47	1.25
1	A	983	ILE	C-O	-11.55	1.10	1.24
1	A	1339	LEU	CA-CB	-11.54	1.37	1.54
4	E	212	ARG	CZ-NH1	-11.54	1.16	1.32
1	A	1230	GLU	CD-OE2	11.54	1.47	1.25
2	B	214	ALA	N-CA	-11.54	1.30	1.46
1	A	469	ARG	CD-NE	-11.54	1.30	1.46
2	B	531	GLN	CD-OE1	11.53	1.45	1.23
3	C	174	ALA	N-CA	-11.53	1.31	1.46
2	B	182	SER	N-CA	11.52	1.60	1.46
10	L	27	LEU	CA-C	11.52	1.68	1.52
1	A	57	ARG	C-O	-11.52	1.09	1.24
2	B	1097	HIS	CG-ND1	11.51	1.50	1.38
1	A	1111	MET	SD-CE	-11.51	1.50	1.79
5	F	79	ARG	NE-CZ	-11.51	1.20	1.33
1	A	396	PRO	CA-CB	-11.51	1.36	1.53
1	A	1325	THR	CA-CB	-11.51	1.34	1.53
3	C	142	VAL	CA-CB	-11.50	1.39	1.54
2	B	1223	ASP	N-CA	11.49	1.61	1.46
1	A	617	VAL	CA-CB	-11.49	1.40	1.54
1	A	821	ARG	C-O	11.49	1.37	1.24
2	B	848	ARG	NE-CZ	-11.49	1.20	1.33
1	A	969	GLN	CD-NE2	11.49	1.57	1.33
2	B	368	GLU	C-O	11.49	1.37	1.24
2	B	1220	ARG	NE-CZ	11.49	1.45	1.33
2	B	1020	ARG	CD-NE	-11.48	1.30	1.46
7	I	120	GLN	CG-CD	11.48	1.80	1.52
1	A	587	HIS	C-O	11.48	1.36	1.23
5	F	84	TYR	C-O	-11.48	1.09	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	999	MET	CA-C	-11.47	1.38	1.53
3	C	205	LYS	CB-CG	11.47	1.86	1.52
1	A	1323	ASP	CA-C	11.47	1.67	1.52
4	E	109	ILE	CA-C	-11.47	1.38	1.52
1	A	553	VAL	C-O	-11.46	1.09	1.24
1	A	585	GLY	C-O	11.46	1.39	1.24
2	B	415	GLN	CB-CG	11.46	1.86	1.52
9	K	28	PRO	CA-CB	-11.46	1.41	1.54
2	B	955	THR	CA-CB	11.46	1.69	1.53
2	B	344	LYS	CD-CE	11.45	1.86	1.52
1	A	1420	ASP	CG-OD2	11.45	1.47	1.25
10	L	26	THR	CB-CG2	11.45	1.90	1.52
1	A	209	ASN	CG-ND2	11.45	1.57	1.33
1	A	546	VAL	CA-CB	-11.45	1.41	1.54
1	A	351	THR	C-O	-11.44	1.09	1.23
1	A	48	ALA	CA-C	11.44	1.68	1.52
2	B	316	PRO	CA-CB	-11.44	1.37	1.53
1	A	498	ARG	C-O	11.44	1.37	1.24
2	B	489	SER	C-O	-11.43	1.08	1.24
3	C	187	LYS	C-O	-11.43	1.08	1.23
1	A	291	GLU	CG-CD	11.42	1.80	1.52
3	C	125	MET	CA-C	11.42	1.68	1.52
1	A	1261	LYS	CD-CE	11.41	1.86	1.52
1	A	585	GLY	C-N	11.41	1.48	1.33
2	B	1154	ALA	CA-C	11.41	1.68	1.52
2	B	340	ALA	C-O	-11.41	1.09	1.23
2	B	1220	ARG	N-CA	11.41	1.60	1.46
6	H	103	LYS	CA-C	-11.40	1.37	1.52
1	A	393	ARG	CG-CD	11.40	1.86	1.52
1	A	1262	LYS	CA-C	11.40	1.67	1.52
3	C	179	GLU	CA-C	-11.40	1.38	1.52
2	B	803	LEU	CA-CB	-11.39	1.35	1.53
10	L	56	LEU	CA-C	-11.39	1.38	1.52
2	B	1133	MET	CA-CB	-11.39	1.34	1.53
2	B	646	LEU	CG-CD1	11.39	1.90	1.52
7	I	88	SER	C-O	-11.39	1.09	1.23
1	A	729	ALA	CA-CB	-11.38	1.33	1.53
2	B	354	ASP	CA-CB	11.38	1.71	1.53
1	A	218	ASP	CA-C	11.37	1.68	1.52
2	B	868	MET	SD-CE	11.37	2.08	1.79
1	A	188	ASP	CA-CB	11.36	1.72	1.53
2	B	199	MET	SD-CE	11.36	2.08	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	135	GLN	CG-CD	11.36	1.80	1.52
1	A	606	LEU	C-O	-11.36	1.09	1.23
1	A	1149	ALA	CA-CB	-11.36	1.33	1.53
1	A	826	ASP	CG-OD2	11.35	1.47	1.25
1	A	926	GLN	CA-C	-11.35	1.38	1.52
1	A	1042	PHE	CG-CD2	-11.35	1.15	1.38
1	A	1056	SER	C-O	-11.35	1.09	1.24
1	A	1235	LYS	CE-NZ	11.35	1.83	1.49
1	A	613	ILE	CA-CB	11.35	1.65	1.55
1	A	1275	GLY	C-O	11.35	1.33	1.23
1	A	191	THR	N-CA	11.34	1.60	1.46
2	B	320	ASP	CG-OD1	11.34	1.47	1.25
6	H	62	SER	C-O	-11.34	1.09	1.24
7	I	95	THR	N-CA	11.34	1.60	1.46
1	A	124	GLN	CD-NE2	11.34	1.57	1.33
1	A	196	GLU	CG-CD	11.33	1.80	1.52
1	A	656	TRP	CG-CD2	-11.32	1.23	1.43
1	A	99	ILE	CA-CB	-11.32	1.39	1.54
2	B	732	SER	CA-C	11.32	1.67	1.52
1	A	1103	GLU	CA-CB	-11.32	1.34	1.53
2	B	236	HIS	C-O	-11.32	1.09	1.23
4	E	110	PHE	CA-C	-11.32	1.39	1.52
1	A	913	LEU	CA-C	11.31	1.66	1.52
1	A	1131	ALA	CA-CB	-11.31	1.35	1.53
2	B	1020	ARG	CZ-NH1	11.31	1.48	1.32
1	A	1116	LEU	N-CA	-11.31	1.32	1.46
2	B	418	LYS	C-O	-11.31	1.10	1.24
8	J	22	LEU	N-CA	-11.31	1.32	1.46
2	B	452	THR	CA-CB	11.31	1.72	1.53
2	B	1106	ARG	NE-CZ	11.31	1.45	1.33
1	A	832	ALA	CA-CB	-11.30	1.35	1.53
1	A	792	TYR	C-O	-11.30	1.09	1.24
2	B	1103	ILE	N-CA	11.30	1.60	1.46
2	B	223	VAL	C-O	-11.29	1.10	1.24
7	I	99	LEU	C-O	-11.29	1.10	1.23
1	A	1320	PRO	CA-C	-11.29	1.38	1.52
4	E	21	GLU	CA-C	-11.29	1.38	1.52
1	A	827	THR	C-O	-11.29	1.09	1.24
1	A	1433	MET	N-CA	11.29	1.60	1.46
1	A	1442	ASP	CA-C	-11.29	1.38	1.52
6	H	95	TYR	C-N	-11.28	1.19	1.33
7	I	82	GLU	CA-C	11.28	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	331	LEU	CA-C	-11.28	1.38	1.52
3	C	23	SER	CA-CB	11.28	1.72	1.53
2	B	365	THR	CB-CG2	-11.28	1.15	1.52
2	B	655	LYS	CG-CD	11.28	1.86	1.52
1	A	484	GLY	C-O	11.27	1.39	1.23
2	B	959	ASP	C-O	11.27	1.39	1.24
3	C	218	PRO	C-O	11.27	1.35	1.23
2	B	239	GLU	CG-CD	11.26	1.80	1.52
3	C	210	GLU	CD-OE1	11.25	1.46	1.25
2	B	489	SER	CA-C	-11.25	1.37	1.52
1	A	152	VAL	CA-CB	11.25	1.68	1.54
1	A	592	ASP	C-O	-11.25	1.08	1.24
3	C	146	LYS	CB-CG	11.24	1.86	1.52
2	B	204	ILE	CA-CB	-11.24	1.40	1.54
7	I	58	VAL	N-CA	11.24	1.58	1.46
1	A	1281	ARG	CG-CD	11.24	1.86	1.52
2	B	238	ALA	C-O	-11.24	1.10	1.23
2	B	556	THR	CB-CG2	11.23	1.89	1.52
2	B	527	THR	CA-C	-11.23	1.39	1.52
2	B	274	PRO	CA-CB	11.23	1.68	1.53
9	K	102	LYS	CA-C	11.23	1.68	1.52
9	K	102	LYS	C-O	11.23	1.38	1.24
1	A	407	ARG	CZ-NH1	11.23	1.48	1.32
2	B	1057	LYS	CD-CE	11.23	1.86	1.52
1	A	806	ARG	CZ-NH1	11.22	1.48	1.32
1	A	1140	HIS	CA-C	-11.22	1.37	1.52
2	B	893	LEU	CA-CB	-11.22	1.35	1.53
2	B	621	GLU	CD-OE2	11.22	1.46	1.25
4	E	162	ARG	CG-CD	11.22	1.86	1.52
2	B	347	LYS	CA-CB	-11.21	1.35	1.53
3	C	249	ASP	C-O	11.21	1.38	1.24
5	F	94	LEU	C-N	-11.21	1.20	1.34
1	A	640	GLN	CD-OE1	11.21	1.44	1.23
2	B	698	GLU	CA-C	11.21	1.68	1.52
1	A	1226	VAL	C-O	11.20	1.35	1.24
2	B	315	LYS	CE-NZ	11.19	1.82	1.49
7	I	34	TYR	CA-CB	-11.20	1.34	1.53
1	A	975	HIS	CA-C	11.19	1.68	1.52
1	A	476	SER	C-O	-11.19	1.13	1.24
2	B	1154	ALA	N-CA	11.18	1.60	1.46
1	A	109	HIS	CG-ND1	11.18	1.50	1.38
3	C	99	LEU	N-CA	-11.18	1.32	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	195	GLN	CD-OE1	11.17	1.44	1.23
2	B	117	ALA	CA-C	-11.16	1.37	1.52
1	A	795	GLU	CA-C	-11.16	1.38	1.52
2	B	995	ARG	CD-NE	-11.16	1.30	1.46
2	B	368	GLU	CG-CD	11.16	1.79	1.52
4	E	92	THR	N-CA	11.16	1.59	1.46
4	E	130	ALA	CA-CB	11.16	1.71	1.53
1	A	149	GLU	CD-OE1	11.15	1.46	1.25
2	B	852	ARG	C-O	-11.15	1.09	1.23
9	K	98	LEU	C-O	11.15	1.37	1.23
3	C	201	TRP	CE2-CZ2	-11.15	1.16	1.39
1	A	935	GLN	C-O	-11.15	1.11	1.24
1	A	1053	PHE	CA-C	-11.15	1.38	1.52
1	A	116	ASP	N-CA	-11.14	1.35	1.46
2	B	28	GLU	C-O	11.14	1.38	1.24
1	A	821	ARG	CD-NE	-11.14	1.30	1.46
2	B	1106	ARG	CA-CB	11.14	1.68	1.52
1	A	693	VAL	C-O	-11.14	1.10	1.24
3	C	45	ALA	CA-C	-11.13	1.38	1.52
7	I	12	ASN	N-CA	-11.13	1.33	1.45
3	C	121	VAL	CA-C	-11.13	1.38	1.52
6	H	111	LEU	CA-C	11.13	1.67	1.52
1	A	28	ARG	C-O	11.12	1.37	1.24
1	A	900	ASP	N-CA	11.12	1.60	1.46
1	A	1414	ALA	C-O	-11.12	1.09	1.24
4	E	141	VAL	C-O	11.12	1.38	1.24
1	A	1012	ARG	NE-CZ	11.12	1.45	1.33
2	B	227	LYS	C-O	-11.12	1.09	1.23
1	A	847	ASP	CG-OD2	11.12	1.46	1.25
2	B	1109	GLY	C-O	11.11	1.39	1.24
1	A	843	LYS	CG-CD	11.11	1.85	1.52
2	B	115	GLN	CA-C	11.11	1.67	1.52
2	B	65	GLU	CA-C	11.11	1.68	1.53
3	C	205	LYS	CG-CD	11.11	1.85	1.52
1	A	62	ASP	N-CA	11.10	1.60	1.46
6	H	23	VAL	CA-CB	-11.10	1.36	1.55
1	A	944	ARG	CZ-NH2	-11.10	1.19	1.33
4	E	191	LYS	C-O	-11.10	1.10	1.23
3	C	147	LEU	CB-CG	11.09	1.75	1.53
2	B	308	TRP	CA-C	-11.09	1.37	1.52
1	A	941	LYS	CE-NZ	11.08	1.82	1.49
2	B	1193	GLN	C-N	-11.08	1.20	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	269	ILE	C-O	-11.08	1.12	1.24
6	H	138	GLU	C-O	-11.07	1.10	1.24
6	H	21	ASN	CA-C	-11.07	1.37	1.52
6	H	109	LYS	CA-C	11.07	1.67	1.52
1	A	423	ASP	CG-OD1	11.06	1.46	1.25
2	B	1109	GLY	CA-C	11.06	1.67	1.51
1	A	180	LYS	CG-CD	11.06	1.85	1.52
1	A	396	PRO	CA-C	-11.05	1.33	1.52
2	B	266	ALA	CA-C	11.04	1.67	1.52
2	B	589	VAL	N-CA	-11.05	1.33	1.46
5	F	111	LEU	CG-CD2	11.05	1.89	1.52
7	I	98	VAL	C-O	-11.04	1.10	1.24
1	A	1118	VAL	N-CA	-11.04	1.33	1.46
6	H	56	THR	N-CA	-11.04	1.32	1.46
1	A	41	MET	CA-C	11.04	1.67	1.52
2	B	39	ARG	CZ-NH2	11.04	1.47	1.33
3	C	80	LEU	CA-C	11.04	1.66	1.52
3	C	261	ALA	CA-C	-11.03	1.37	1.52
2	B	434	ARG	CB-CG	11.03	1.85	1.52
1	A	513	SER	C-O	-11.03	1.09	1.24
1	A	852	TYR	C-O	11.03	1.38	1.24
8	J	2	ILE	CA-C	-11.03	1.39	1.52
2	B	899	ILE	CA-C	-11.02	1.38	1.52
7	I	28	GLU	CD-OE1	11.02	1.46	1.25
4	E	205	SER	CA-C	-11.02	1.38	1.52
7	I	55	THR	CA-CB	-11.02	1.36	1.53
1	A	515	GLN	CD-OE1	11.02	1.44	1.23
1	A	733	ALA	C-O	-11.02	1.11	1.24
2	B	135	ARG	CA-C	11.02	1.65	1.52
2	B	736	THR	CB-OG1	-11.01	1.26	1.43
3	C	115	SER	CA-CB	-11.01	1.35	1.53
7	I	93	LYS	CD-CE	11.01	1.85	1.52
4	E	7	ARG	CD-NE	11.01	1.61	1.46
1	A	105	CYS	C-N	-11.01	1.21	1.33
2	B	755	ILE	C-O	11.00	1.37	1.24
6	H	96	VAL	CA-CB	-11.00	1.40	1.54
4	E	185	ALA	CA-CB	-11.00	1.36	1.53
1	A	451	HIS	C-O	-11.00	1.10	1.23
2	B	315	LYS	CA-CB	-11.00	1.39	1.53
3	C	166	GLU	C-O	11.00	1.37	1.24
1	A	61	ILE	C-O	10.99	1.39	1.23
1	A	72	GLU	CA-C	10.99	1.67	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1066	VAL	C-N	-10.99	1.20	1.33
1	A	498	ARG	CZ-NH2	-10.99	1.19	1.33
2	B	398	ARG	C-O	-10.99	1.10	1.24
2	B	592	ASN	CB-CG	10.99	1.79	1.52
1	A	876	ALA	CA-C	-10.99	1.37	1.52
1	A	1104	ILE	C-O	-10.99	1.11	1.24
1	A	548	ASN	CG-OD1	10.98	1.44	1.23
5	F	116	ASP	C-O	-10.98	1.10	1.24
2	B	959	ASP	CB-CG	10.97	1.79	1.52
2	B	592	ASN	CG-ND2	10.96	1.56	1.33
1	A	189	ARG	N-CA	10.96	1.59	1.46
9	K	82	ASP	C-N	-10.96	1.18	1.33
6	H	19	ARG	CB-CG	10.95	1.85	1.52
2	B	581	PHE	C-O	10.95	1.38	1.24
1	A	390	GLN	CD-OE1	10.95	1.44	1.23
6	H	82	PRO	CA-C	10.95	1.68	1.52
4	E	152	LYS	CB-CG	10.94	1.85	1.52
10	L	67	PHE	CA-C	-10.94	1.39	1.52
1	A	645	LEU	C-N	-10.94	1.19	1.33
1	A	734	GLU	CD-OE1	10.93	1.46	1.25
1	A	1093	LYS	N-CA	10.93	1.61	1.46
1	A	1281	ARG	NE-CZ	10.93	1.45	1.33
7	I	103	CYS	CA-C	-10.93	1.38	1.52
1	A	781	ASP	CA-C	-10.92	1.36	1.52
1	A	1328	TYR	C-N	-10.92	1.20	1.33
1	A	777	PHE	C-O	10.92	1.36	1.23
2	B	384	ARG	CG-CD	10.92	1.85	1.52
3	C	196	ASP	C-O	10.92	1.36	1.23
4	E	69	ILE	CA-CB	-10.92	1.40	1.54
1	A	170	THR	CA-CB	10.91	1.71	1.53
9	K	46	ILE	CA-CB	-10.91	1.42	1.54
1	A	716	ASP	CG-OD1	10.91	1.46	1.25
1	A	860	LEU	CG-CD1	10.91	1.88	1.52
7	I	91	ARG	CZ-NH1	10.91	1.48	1.32
9	K	77	THR	C-O	10.91	1.37	1.23
1	A	1421	CYS	C-O	-10.90	1.08	1.23
1	A	159	THR	C-O	-10.90	1.10	1.24
1	A	641	VAL	C-O	-10.90	1.11	1.24
1	A	1382	THR	CA-CB	10.90	1.70	1.53
2	B	186	GLU	CD-OE2	10.90	1.46	1.25
2	B	515	HIS	CA-C	-10.90	1.39	1.52
8	J	38	ARG	CB-CG	10.90	1.85	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	776	ALA	C-O	-10.90	1.09	1.23
2	B	211	VAL	CA-C	-10.90	1.39	1.52
2	B	486	TYR	C-N	-10.88	1.20	1.33
1	A	191	THR	CA-CB	10.88	1.71	1.53
7	I	91	ARG	CA-CB	-10.88	1.35	1.52
8	J	42	LYS	CG-CD	10.88	1.85	1.52
1	A	1049	ILE	C-O	-10.88	1.11	1.24
2	B	267	ARG	CA-C	10.88	1.67	1.52
2	B	661	LEU	CA-C	-10.88	1.39	1.52
7	I	100	PHE	CA-C	-10.88	1.39	1.52
10	L	40	LEU	CB-CG	10.88	1.75	1.53
1	A	698	GLN	CG-CD	10.87	1.79	1.52
4	E	7	ARG	NE-CZ	10.87	1.45	1.33
2	B	465	ASN	CB-CG	10.87	1.79	1.52
6	H	96	VAL	CA-C	10.87	1.65	1.52
1	A	1122	PRO	C-O	10.87	1.38	1.24
1	A	979	SER	C-O	-10.87	1.10	1.23
2	B	734	HIS	CA-CB	10.86	1.67	1.52
2	B	411	PRO	CA-C	10.86	1.69	1.52
4	E	96	PHE	C-O	10.86	1.36	1.24
2	B	752	ALA	CA-CB	10.86	1.71	1.53
10	L	31	CYS	CA-CB	10.86	1.66	1.53
1	A	711	ARG	C-O	-10.86	1.10	1.24
1	A	356	ASP	CA-C	-10.85	1.39	1.52
1	A	612	ILE	CA-C	-10.85	1.38	1.52
1	A	1187	GLN	CB-CG	10.85	1.84	1.52
3	C	73	GLN	CA-CB	10.85	1.71	1.53
5	F	101	ILE	CA-C	10.85	1.66	1.52
7	I	29	CYS	C-O	10.84	1.36	1.23
1	A	506	ALA	C-O	-10.84	1.10	1.23
9	K	71	PHE	CA-CB	-10.84	1.33	1.54
1	A	1194	ARG	CD-NE	-10.84	1.31	1.46
2	B	695	ALA	N-CA	-10.84	1.32	1.46
1	A	1225	PHE	CB-CG	10.83	1.75	1.50
1	A	993	LEU	N-CA	10.83	1.59	1.46
2	B	280	ILE	CA-C	10.83	1.62	1.52
2	B	610	ASN	C-O	10.83	1.38	1.24
3	C	139	GLY	C-O	10.83	1.39	1.24
2	B	682	SER	CA-C	-10.83	1.37	1.52
8	J	63	TYR	C-O	-10.82	1.09	1.23
1	A	358	ASN	CG-ND2	10.82	1.55	1.33
2	B	1153	GLU	CD-OE2	10.82	1.46	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	352	ALA	C-O	10.82	1.37	1.24
6	H	132	LEU	CA-CB	10.82	1.71	1.53
6	H	37	LYS	CA-C	10.82	1.65	1.52
1	A	1378	GLN	CD-OE1	10.82	1.44	1.23
9	K	28	PRO	C-O	-10.82	1.11	1.23
2	B	906	SER	C-O	-10.81	1.14	1.24
1	A	1256	GLU	CA-CB	10.81	1.65	1.53
2	B	1030	LEU	CA-CB	-10.81	1.36	1.53
4	E	157	SER	CA-C	-10.81	1.38	1.52
1	A	1283	VAL	N-CA	-10.81	1.33	1.46
4	E	162	ARG	CA-CB	10.81	1.70	1.53
1	A	566	ILE	CB-CG2	10.81	1.88	1.52
4	E	129	PRO	CB-CG	10.81	1.93	1.51
7	I	120	GLN	CB-CG	10.80	1.84	1.52
2	B	109	THR	CA-CB	10.80	1.71	1.53
1	A	31	SER	C-O	10.80	1.38	1.23
1	A	606	LEU	CA-C	-10.79	1.39	1.52
6	H	80	ARG	C-O	-10.80	1.12	1.24
9	K	17	SER	N-CA	10.79	1.59	1.45
1	A	560	ILE	CA-CB	-10.79	1.40	1.54
2	B	524	PRO	CA-C	-10.79	1.38	1.52
1	A	1448	GLU	C-O	10.79	1.37	1.24
2	B	435	THR	CA-C	10.79	1.68	1.53
1	A	117	GLU	CD-OE1	10.78	1.45	1.25
8	J	49	MET	N-CA	10.78	1.59	1.46
1	A	893	PHE	C-O	-10.77	1.10	1.24
2	B	477	ALA	CA-CB	10.77	1.88	1.52
3	C	79	GLN	N-CA	-10.77	1.32	1.46
2	B	1146	PHE	C-O	-10.77	1.10	1.24
2	B	542	MET	CA-C	-10.76	1.39	1.52
2	B	184	ALA	CA-CB	-10.76	1.36	1.53
2	B	191	LYS	CB-CG	10.76	1.84	1.52
2	B	312	GLU	C-O	-10.76	1.10	1.24
2	B	595	ARG	NE-CZ	10.76	1.44	1.33
9	K	71	PHE	CA-C	-10.76	1.39	1.52
2	B	992	ILE	CA-CB	-10.76	1.44	1.55
1	A	268	ASP	CA-C	10.75	1.67	1.52
1	A	1036	ARG	C-N	-10.75	1.18	1.33
1	A	809	THR	C-O	-10.75	1.10	1.23
5	F	135	ARG	N-CA	-10.75	1.32	1.46
2	B	701	ILE	CA-CB	-10.75	1.39	1.54
8	J	48	ARG	CA-C	-10.75	1.37	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	590	ARG	C-O	-10.75	1.09	1.23
1	A	902	LEU	CG-CD2	-10.74	1.17	1.52
2	B	1053	GLU	CA-C	-10.74	1.39	1.52
1	A	135	PHE	N-CA	10.74	1.59	1.46
1	A	388	LEU	N-CA	-10.74	1.33	1.46
2	B	1021	MET	SD-CE	-10.74	1.52	1.79
2	B	281	PRO	C-O	-10.74	1.10	1.23
2	B	762	ASN	C-O	-10.73	1.10	1.24
4	E	164	LEU	CA-CB	-10.73	1.36	1.53
2	B	854	LEU	N-CA	-10.73	1.31	1.46
5	F	145	ASP	C-O	10.73	1.36	1.24
1	A	171	GLN	CD-OE1	10.73	1.44	1.23
2	B	1008	PRO	CA-CB	-10.73	1.42	1.54
3	C	15	LYS	CG-CD	10.73	1.84	1.52
1	A	670	ILE	C-O	-10.72	1.11	1.24
1	A	821	ARG	NE-CZ	-10.72	1.21	1.33
3	C	17	ASN	CG-ND2	10.72	1.55	1.33
1	A	1143	LEU	N-CA	10.71	1.60	1.46
1	A	828	ALA	CA-CB	-10.71	1.36	1.53
3	C	230	MET	C-O	-10.71	1.09	1.24
2	B	434	ARG	CG-CD	10.71	1.84	1.52
3	C	188	HIS	CA-C	10.71	1.67	1.52
9	K	6	ARG	C-O	10.70	1.37	1.24
1	A	483	ASP	N-CA	10.70	1.58	1.46
4	E	79	TRP	C-N	-10.70	1.19	1.33
1	A	66	LYS	CA-CB	10.70	1.71	1.52
2	B	761	HIS	CA-C	-10.70	1.38	1.52
4	E	213	ILE	C-O	-10.70	1.12	1.24
1	A	553	VAL	CA-C	-10.69	1.41	1.52
1	A	548	ASN	CA-C	10.69	1.67	1.52
3	C	174	ALA	CA-C	-10.69	1.38	1.52
1	A	1116	LEU	CA-CB	-10.68	1.35	1.53
1	A	1304	TRP	CE3-CZ3	-10.68	1.06	1.38
2	B	1219	ASP	N-CA	10.68	1.59	1.46
10	L	27	LEU	CB-CG	10.68	1.74	1.53
2	B	961	LEU	CB-CG	10.68	1.74	1.53
1	A	210	ILE	CA-C	10.68	1.66	1.52
2	B	267	ARG	C-O	-10.68	1.11	1.24
2	B	312	GLU	CD-OE2	10.67	1.45	1.25
2	B	416	LEU	CG-CD2	10.67	1.87	1.52
6	H	95	TYR	C-O	-10.67	1.11	1.23
2	B	935	ARG	CD-NE	10.67	1.61	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	511	PRO	CA-CB	-10.66	1.36	1.53
2	B	945	GLU	CD-OE1	10.66	1.45	1.25
4	E	1	MET	SD-CE	10.66	2.06	1.79
1	A	359	LEU	N-CA	10.66	1.58	1.45
2	B	25	ILE	CA-CB	10.65	1.69	1.54
2	B	1042	GLY	CA-C	-10.65	1.44	1.52
7	I	84	VAL	CB-CG2	-10.65	1.17	1.52
1	A	1169	ILE	CA-CB	10.64	1.68	1.54
2	B	934	LYS	CA-C	10.64	1.64	1.53
2	B	1155	SER	N-CA	10.64	1.59	1.46
4	E	103	LYS	C-O	10.64	1.37	1.24
2	B	349	ILE	CB-CG2	-10.64	1.17	1.52
2	B	789	MET	CA-C	-10.64	1.41	1.53
1	A	1119	TYR	C-O	10.63	1.37	1.23
2	B	627	PHE	C-O	-10.64	1.12	1.23
2	B	1087	PHE	CE1-CZ	-10.63	1.06	1.38
7	I	37	GLU	CD-OE1	10.64	1.45	1.25
8	J	31	ASP	C-O	10.63	1.36	1.23
9	K	72	LYS	C-O	-10.63	1.12	1.23
2	B	1220	ARG	C-O	10.63	1.37	1.24
8	J	48	ARG	CZ-NH1	-10.62	1.17	1.32
1	A	755	PHE	C-O	10.62	1.36	1.24
1	A	835	GLY	C-O	-10.62	1.11	1.23
4	E	84	ASP	CB-CG	10.62	1.78	1.52
4	E	98	ILE	C-O	10.62	1.35	1.24
6	H	93	TYR	CG-CD1	10.61	1.61	1.39
1	A	6	TYR	C-O	10.61	1.36	1.23
2	B	465	ASN	CA-C	10.61	1.66	1.53
2	B	47	GLN	CA-CB	-10.61	1.35	1.53
2	B	864	LYS	C-O	10.61	1.37	1.24
1	A	1224	LEU	CA-CB	-10.61	1.33	1.53
2	B	366	GLN	N-CA	10.61	1.59	1.46
3	C	155	LEU	C-O	10.61	1.36	1.23
9	K	65	HIS	CA-C	-10.61	1.40	1.52
2	B	27	ALA	N-CA	-10.60	1.33	1.46
2	B	408	LEU	CG-CD1	10.60	1.87	1.52
2	B	641	GLU	CA-C	10.60	1.65	1.52
4	E	198	ILE	CB-CG2	-10.60	1.17	1.52
2	B	1012	ILE	CB-CG1	-10.60	1.32	1.53
1	A	1020	CYS	C-O	10.60	1.37	1.24
2	B	135	ARG	C-N	10.60	1.48	1.33
2	B	1195	HIS	CA-CB	10.60	1.68	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	579	ARG	NE-CZ	-10.59	1.21	1.33
2	B	1156	ASP	CA-CB	10.59	1.70	1.53
7	I	65	ASP	N-CA	10.59	1.58	1.46
9	K	107	THR	CA-C	-10.59	1.39	1.52
1	A	994	GLN	CA-C	-10.59	1.38	1.52
1	A	1311	VAL	N-CA	-10.59	1.33	1.46
2	B	353	LYS	CG-CD	10.59	1.84	1.52
2	B	1086	PHE	CE2-CZ	-10.59	1.06	1.38
2	B	784	ASN	N-CA	-10.59	1.32	1.46
3	C	228	PHE	CA-C	-10.59	1.39	1.52
2	B	843	GLN	C-O	10.58	1.37	1.24
2	B	1098	MET	SD-CE	10.58	2.06	1.79
4	E	154	ILE	CA-C	-10.58	1.40	1.52
1	A	393	ARG	CZ-NH2	10.58	1.47	1.33
2	B	328	GLU	N-CA	10.58	1.58	1.46
1	A	907	THR	CA-CB	10.58	1.69	1.53
2	B	1023	VAL	CA-CB	-10.58	1.39	1.54
7	I	97	MET	C-O	10.58	1.37	1.23
1	A	792	TYR	CA-C	-10.57	1.37	1.52
1	A	1337	GLU	CD-OE1	10.57	1.45	1.25
2	B	908	GLU	C-O	10.57	1.38	1.23
7	I	18	GLU	CA-CB	10.57	1.68	1.53
1	A	684	ALA	CA-C	10.56	1.67	1.52
1	A	1317	MET	SD-CE	-10.56	1.53	1.79
6	H	11	GLN	CA-C	-10.56	1.39	1.52
1	A	635	ARG	CZ-NH2	10.56	1.47	1.33
1	A	652	VAL	N-CA	-10.56	1.33	1.46
1	A	987	VAL	CA-CB	-10.56	1.40	1.54
3	C	95	CYS	C-O	-10.56	1.09	1.24
2	B	494	HIS	CA-C	-10.56	1.38	1.52
9	K	97	LYS	CA-C	-10.56	1.38	1.52
1	A	74	MET	CB-CG	10.55	1.84	1.52
1	A	430	TRP	CA-C	-10.56	1.38	1.53
2	B	557	PHE	N-CA	-10.56	1.33	1.46
2	B	232	SER	C-O	-10.55	1.09	1.24
1	A	159	THR	CA-CB	10.55	1.71	1.53
1	A	1117	THR	N-CA	10.55	1.59	1.46
2	B	19	GLU	N-CA	10.55	1.59	1.46
2	B	845	SER	C-N	-10.55	1.20	1.33
2	B	1013	ASN	C-O	-10.55	1.08	1.23
2	B	1019	SER	C-N	-10.55	1.17	1.33
2	B	50	SER	C-O	10.55	1.38	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	137	TYR	CA-C	10.54	1.66	1.52
2	B	1183	LYS	CA-CB	10.54	1.71	1.53
1	A	217	LYS	CG-CD	10.54	1.84	1.52
3	C	15	LYS	CB-CG	10.54	1.84	1.52
2	B	655	LYS	CA-CB	-10.54	1.36	1.53
2	B	808	ALA	CA-CB	-10.54	1.35	1.53
1	A	371	ALA	C-O	-10.53	1.10	1.24
1	A	774	ARG	CZ-NH2	-10.53	1.19	1.33
1	A	44	THR	CA-C	10.53	1.66	1.52
1	A	796	SER	C-O	-10.53	1.11	1.24
1	A	840	ARG	NE-CZ	10.53	1.44	1.33
1	A	738	LYS	C-O	-10.53	1.10	1.23
7	I	1	MET	CA-CB	10.53	1.74	1.53
1	A	69	THR	N-CA	10.52	1.59	1.46
1	A	72	GLU	N-CA	10.52	1.59	1.46
2	B	301	ILE	CA-CB	-10.52	1.44	1.55
2	B	617	ARG	CD-NE	10.52	1.60	1.46
5	F	139	PRO	C-O	-10.52	1.11	1.24
1	A	1206	ASP	C-O	10.52	1.37	1.23
1	A	264	PHE	CA-CB	10.51	1.71	1.53
4	E	215	MET	N-CA	10.51	1.66	1.46
2	B	235	SER	N-CA	-10.51	1.32	1.46
1	A	1130	GLN	CD-OE1	10.51	1.43	1.23
1	A	1285	MET	CA-C	-10.51	1.39	1.52
8	J	16	ASP	CA-C	10.51	1.69	1.52
2	B	793	ALA	CA-CB	-10.50	1.36	1.53
9	K	69	ALA	N-CA	10.50	1.60	1.46
2	B	982	SER	CA-C	-10.50	1.39	1.53
2	B	521	LEU	C-O	-10.50	1.09	1.23
10	L	63	ARG	CD-NE	10.50	1.60	1.46
3	C	154	LYS	CG-CD	10.49	1.83	1.52
6	H	52	GLN	CG-CD	10.49	1.78	1.52
1	A	302	THR	N-CA	-10.49	1.32	1.46
2	B	184	ALA	C-O	-10.49	1.09	1.23
2	B	969	ARG	CZ-NH1	10.49	1.47	1.32
9	K	89	ASN	CB-CG	10.49	1.78	1.52
8	J	10	CYS	C-O	-10.49	1.09	1.24
2	B	870	ILE	CB-CG1	10.48	1.74	1.53
4	E	14	ARG	CA-CB	-10.48	1.36	1.53
7	I	31	THR	CA-CB	-10.48	1.37	1.53
2	B	905	VAL	CA-C	-10.48	1.40	1.52
2	B	983	ARG	CZ-NH2	-10.48	1.19	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	36	ARG	NE-CZ	10.47	1.44	1.33
1	A	536	LEU	CA-C	10.47	1.67	1.53
1	A	751	SER	C-O	10.47	1.37	1.24
1	A	879	GLU	C-O	-10.47	1.11	1.23
9	K	61	TYR	CE1-CZ	-10.47	1.13	1.38
1	A	1411	GLU	CA-CB	10.47	1.69	1.53
2	B	458	LYS	CG-CD	10.47	1.83	1.52
5	F	78	GLN	C-O	-10.47	1.10	1.24
1	A	642	CYS	N-CA	-10.47	1.33	1.46
10	L	49	LYS	N-CA	10.46	1.59	1.46
1	A	831	THR	N-CA	-10.45	1.32	1.46
7	I	73	ARG	C-O	-10.45	1.09	1.23
2	B	177	LYS	C-O	10.45	1.36	1.24
2	B	1046	PRO	CA-C	-10.45	1.39	1.52
9	K	86	ALA	CA-CB	-10.45	1.35	1.53
4	E	138	ALA	CA-CB	-10.45	1.36	1.53
2	B	60	GLN	N-CA	-10.44	1.33	1.46
2	B	604	ARG	N-CA	10.44	1.59	1.46
1	A	981	LEU	C-N	-10.44	1.18	1.33
9	K	78	THR	C-O	10.44	1.36	1.23
2	B	111	ALA	CA-CB	10.44	1.70	1.53
1	A	942	PHE	C-O	-10.43	1.11	1.24
1	A	618	GLU	CD-OE2	10.43	1.45	1.25
1	A	1239	ARG	CZ-NH2	-10.43	1.19	1.33
1	A	226	GLU	C-O	-10.43	1.10	1.24
3	C	128	ASN	CG-ND2	10.42	1.55	1.33
2	B	97	VAL	CA-C	-10.42	1.39	1.52
7	I	36	GLU	C-O	-10.41	1.11	1.23
1	A	659	HIS	CE1-NE2	10.41	1.43	1.32
1	A	65	LEU	C-O	10.40	1.37	1.24
2	B	336	ARG	NE-CZ	-10.39	1.21	1.33
1	A	1347	ALA	C-O	-10.39	1.11	1.24
1	A	1355	VAL	C-O	-10.39	1.12	1.24
1	A	283	GLY	C-O	10.39	1.36	1.23
1	A	1280	GLU	CG-CD	10.38	1.78	1.52
2	B	705	MET	C-O	-10.38	1.10	1.24
2	B	361	LEU	C-N	-10.38	1.22	1.34
1	A	183	GLY	CA-C	-10.37	1.41	1.52
2	B	933	SER	CA-C	10.38	1.74	1.52
3	C	117	ASP	C-O	10.38	1.50	1.24
7	I	38	ALA	CA-CB	10.37	1.69	1.53
2	B	975	GLN	CA-C	-10.37	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1096	SER	C-O	10.37	1.37	1.24
2	B	525	ALA	CA-C	-10.37	1.39	1.52
3	C	44	LEU	C-N	10.37	1.46	1.33
2	B	613	VAL	CA-C	-10.37	1.40	1.52
9	K	110	ASN	CG-OD1	10.37	1.43	1.23
1	A	23	SER	CA-C	10.36	1.65	1.52
2	B	209	GLU	C-O	-10.36	1.11	1.24
3	C	3	GLU	CD-OE1	10.36	1.45	1.25
1	A	1273	LEU	C-O	10.36	1.36	1.24
2	B	344	LYS	CB-CG	10.36	1.83	1.52
2	B	590	HIS	N-CA	-10.36	1.32	1.45
2	B	1047	PHE	C-O	-10.35	1.09	1.23
2	B	895	ASP	N-CA	10.35	1.59	1.46
7	I	34	TYR	CG-CD2	-10.35	1.17	1.39
1	A	379	VAL	C-O	-10.34	1.11	1.24
1	A	659	HIS	C-O	-10.34	1.10	1.24
4	E	113	GLN	CD-NE2	10.34	1.54	1.33
1	A	677	ARG	C-O	-10.33	1.11	1.24
2	B	208	SER	CA-CB	-10.33	1.38	1.53
2	B	364	ILE	N-CA	-10.33	1.33	1.46
2	B	1223	ASP	CA-C	10.33	1.66	1.52
1	A	1146	VAL	N-CA	-10.33	1.33	1.46
4	E	46	TYR	CA-C	-10.33	1.40	1.52
1	A	898	ARG	N-CA	10.32	1.59	1.46
3	C	35	ARG	CG-CD	10.32	1.83	1.52
2	B	426	LYS	CA-C	-10.32	1.38	1.52
1	A	748	MET	C-O	10.32	1.35	1.24
1	A	1450	LEU	CG-CD2	10.32	1.86	1.52
8	J	41	LEU	CA-C	-10.32	1.39	1.53
1	A	325	ILE	C-O	-10.32	1.12	1.24
1	A	949	ASP	N-CA	-10.32	1.33	1.46
2	B	1040	ASN	CG-ND2	10.32	1.54	1.33
1	A	589	GLN	CD-NE2	10.31	1.54	1.33
8	J	24	LEU	CA-CB	-10.31	1.35	1.53
2	B	498	THR	CA-CB	10.31	1.73	1.54
1	A	1345	ARG	CZ-NH1	-10.31	1.18	1.32
2	B	746	SER	N-CA	-10.31	1.32	1.46
1	A	487	MET	CB-CG	-10.31	1.21	1.52
1	A	173	THR	CB-CG2	10.30	1.86	1.52
2	B	452	THR	N-CA	10.30	1.59	1.46
5	F	87	LYS	CD-CE	10.30	1.83	1.52
1	A	843	LYS	N-CA	-10.30	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1196	GLU	N-CA	-10.30	1.33	1.46
2	B	986	GLN	CD-OE1	10.30	1.43	1.23
1	A	389	THR	CB-CG2	10.30	1.86	1.52
1	A	536	LEU	N-CA	-10.29	1.31	1.45
9	K	54	ARG	CA-C	10.29	1.67	1.52
1	A	1357	ALA	CA-CB	-10.29	1.35	1.53
2	B	245	GLU	CA-CB	10.29	1.70	1.53
2	B	596	LEU	CG-CD1	-10.29	1.18	1.52
1	A	1448	GLU	CA-CB	10.28	1.70	1.53
2	B	1129	ARG	NE-CZ	10.28	1.44	1.33
2	B	951	GLN	CG-CD	10.28	1.77	1.52
2	B	42	GLY	C-O	10.28	1.37	1.23
3	C	79	GLN	CD-NE2	10.28	1.54	1.33
5	F	114	GLU	CA-C	10.28	1.65	1.52
1	A	1322	ILE	CB-CG2	-10.27	1.18	1.52
7	I	93	LYS	N-CA	-10.27	1.33	1.46
9	K	26	LYS	CG-CD	10.27	1.83	1.52
2	B	104	GLU	N-CA	10.27	1.58	1.45
2	B	635	ARG	C-O	-10.27	1.14	1.24
4	E	180	ARG	C-O	10.27	1.36	1.24
1	A	934	LYS	CA-CB	10.26	1.69	1.53
1	A	1167	GLU	CA-CB	10.26	1.69	1.53
2	B	32	ALA	CA-C	-10.26	1.38	1.52
2	B	622	LYS	CG-CD	10.26	1.83	1.52
1	A	471	ASN	N-CA	10.26	1.59	1.45
2	B	1189	ILE	CB-CG2	10.26	1.86	1.52
7	I	93	LYS	CE-NZ	10.25	1.80	1.49
1	A	965	GLN	CD-NE2	10.25	1.54	1.33
10	L	38	LEU	CG-CD1	10.25	1.86	1.52
5	F	152	ILE	N-CA	-10.25	1.34	1.46
1	A	1118	VAL	CB-CG2	-10.25	1.18	1.52
4	E	68	SER	N-CA	10.24	1.58	1.46
10	L	46	VAL	CB-CG2	10.24	1.86	1.52
2	B	703	ILE	C-O	10.24	1.34	1.24
2	B	96	TYR	CG-CD1	10.23	1.60	1.39
2	B	1164	GLY	C-O	10.23	1.33	1.24
3	C	154	LYS	C-O	-10.23	1.10	1.24
2	B	51	PHE	N-CA	10.23	1.59	1.46
10	L	33	GLU	N-CA	10.23	1.59	1.46
1	A	1092	LYS	C-O	10.23	1.44	1.23
1	A	1201	ALA	CA-C	10.23	1.66	1.52
2	B	629	ASP	CA-C	-10.22	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	23	VAL	N-CA	-10.22	1.34	1.46
4	E	195	VAL	CA-C	-10.22	1.40	1.52
2	B	556	THR	N-CA	-10.22	1.32	1.46
1	A	1438	THR	N-CA	-10.22	1.32	1.46
1	A	66	LYS	N-CA	10.21	1.59	1.46
1	A	1069	ALA	C-O	10.21	1.36	1.24
2	B	791	THR	N-CA	-10.21	1.34	1.46
2	B	371	GLU	CD-OE1	10.21	1.44	1.25
6	H	61	SER	C-O	10.21	1.36	1.23
1	A	12	ARG	CA-C	-10.20	1.40	1.52
1	A	426	LEU	C-O	-10.20	1.11	1.23
2	B	20	ASP	N-CA	10.20	1.58	1.46
4	E	62	ALA	CA-C	-10.20	1.39	1.52
1	A	382	PRO	CA-C	-10.20	1.36	1.52
1	A	892	ALA	C-O	-10.20	1.10	1.24
2	B	694	ASP	N-CA	10.20	1.57	1.45
3	C	87	PHE	CE2-CZ	-10.19	1.08	1.38
1	A	1366	ARG	CA-CB	-10.19	1.35	1.53
2	B	794	ASN	N-CA	-10.19	1.33	1.46
1	A	1225	PHE	CA-C	10.19	1.65	1.52
2	B	58	THR	CA-CB	-10.19	1.35	1.53
3	C	12	GLU	CD-OE1	10.19	1.44	1.25
1	A	704	ALA	CA-C	-10.18	1.39	1.52
1	A	1231	ASP	C-O	10.18	1.36	1.24
2	B	780	VAL	N-CA	-10.18	1.33	1.46
2	B	629	ASP	C-N	-10.18	1.20	1.33
7	I	4	PHE	C-O	10.18	1.36	1.24
7	I	21	GLU	C-O	-10.17	1.12	1.24
1	A	379	VAL	C-N	10.17	1.46	1.33
9	K	102	LYS	CA-CB	10.17	1.70	1.53
1	A	1297	GLU	CD-OE2	10.17	1.44	1.25
3	C	243	VAL	CA-C	-10.16	1.36	1.52
1	A	5	GLN	C-O	-10.16	1.10	1.23
1	A	697	ALA	CA-C	-10.16	1.38	1.52
1	A	383	TYR	CA-CB	10.16	1.70	1.53
1	A	809	THR	CA-CB	10.15	1.68	1.53
1	A	951	GLU	CA-C	-10.15	1.39	1.52
2	B	238	ALA	CA-CB	10.15	1.78	1.53
1	A	1119	TYR	CE2-CZ	-10.15	1.13	1.38
2	B	275	TYR	CG-CD1	-10.15	1.18	1.39
2	B	401	PHE	C-O	-10.15	1.10	1.24
2	B	965	LYS	C-O	-10.15	1.12	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	837	ILE	C-O	-10.15	1.12	1.24
1	A	55	ASP	CA-C	-10.15	1.40	1.52
1	A	991	LYS	CE-NZ	10.15	1.79	1.49
2	B	824	ILE	CA-C	10.15	1.65	1.52
1	A	514	PRO	N-CA	-10.15	1.34	1.47
2	B	1137	CYS	C-N	-10.15	1.20	1.34
1	A	1214	GLU	CD-OE1	10.14	1.44	1.25
4	E	131	THR	CB-CG2	10.14	1.86	1.52
8	J	3	VAL	CA-C	-10.14	1.42	1.52
1	A	765	VAL	C-O	-10.14	1.11	1.24
1	A	1130	GLN	N-CA	10.14	1.59	1.46
2	B	256	VAL	C-O	-10.14	1.13	1.24
4	E	172	GLU	CA-C	-10.14	1.39	1.52
1	A	220	THR	CB-OG1	10.13	1.59	1.43
1	A	1010	ALA	C-O	-10.13	1.12	1.24
1	A	121	LEU	CG-CD1	10.13	1.85	1.52
1	A	848	ILE	CA-C	-10.13	1.41	1.52
3	C	147	LEU	CA-C	-10.13	1.40	1.52
1	A	792	TYR	CA-CB	-10.12	1.38	1.53
6	H	39	THR	CA-C	-10.12	1.40	1.52
1	A	349	ALA	C-O	-10.12	1.10	1.23
2	B	1155	SER	CA-CB	10.12	1.70	1.53
9	K	95	ILE	C-O	10.12	1.36	1.24
2	B	351	TYR	CA-C	10.12	1.66	1.52
1	A	174	ILE	C-O	-10.11	1.13	1.24
1	A	389	THR	N-CA	-10.11	1.34	1.46
1	A	1003	LYS	CG-CD	10.11	1.82	1.52
1	A	1344	GLY	CA-C	-10.11	1.40	1.52
4	E	152	LYS	CG-CD	10.11	1.82	1.52
2	B	216	GLU	CD-OE2	10.11	1.44	1.25
1	A	596	THR	C-O	-10.11	1.12	1.24
2	B	415	GLN	N-CA	10.11	1.58	1.46
7	I	13	MET	SD-CE	10.11	2.04	1.79
6	H	41	ASP	CB-CG	10.10	1.77	1.52
2	B	799	PRO	CA-C	-10.10	1.40	1.52
2	B	1055	ILE	CA-C	-10.10	1.38	1.52
4	E	49	SER	N-CA	10.10	1.59	1.46
1	A	1031	VAL	C-O	10.10	1.36	1.24
2	B	173	MET	C-O	-10.10	1.11	1.24
7	I	88	SER	N-CA	-10.10	1.32	1.46
2	B	743	ILE	C-O	10.10	1.33	1.24
1	A	1196	GLU	CA-CB	-10.09	1.39	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	969	GLN	CA-CB	10.09	1.69	1.53
9	K	105	PHE	CA-CB	10.09	1.69	1.53
1	A	603	ASN	N-CA	-10.09	1.33	1.45
1	A	1191	TRP	CG-CD2	-10.09	1.25	1.43
4	E	144	ILE	CB-CG1	-10.09	1.33	1.53
1	A	27	VAL	C-O	10.09	1.36	1.24
2	B	811	TYR	CZ-OH	-10.08	1.16	1.38
2	B	1012	ILE	CA-CB	-10.08	1.41	1.54
2	B	1021	MET	C-O	10.08	1.36	1.23
2	B	1182	CYS	N-CA	10.08	1.59	1.46
2	B	278	GLN	CA-C	-10.07	1.40	1.52
9	K	55	LYS	CG-CD	10.07	1.82	1.52
1	A	1055	ARG	CG-CD	10.07	1.82	1.52
2	B	103	ASN	CA-CB	10.07	1.70	1.53
1	A	1114	PRO	CA-CB	-10.07	1.40	1.53
2	B	552	MET	CA-CB	-10.07	1.37	1.53
8	J	54	VAL	CA-CB	-10.07	1.41	1.53
9	K	1	MET	N-CA	10.07	1.65	1.46
2	B	1135	ARG	CA-C	-10.06	1.40	1.52
5	F	122	MET	SD-CE	-10.06	1.54	1.79
1	A	546	VAL	N-CA	-10.06	1.34	1.46
1	A	1414	ALA	CA-C	-10.06	1.39	1.52
3	C	252	GLN	CA-C	-10.06	1.39	1.52
2	B	916	THR	CB-CG2	10.06	1.85	1.52
3	C	97	VAL	CA-CB	-10.06	1.42	1.54
4	E	14	ARG	C-O	10.06	1.36	1.24
7	I	37	GLU	C-O	-10.06	1.10	1.23
5	F	97	ARG	CZ-NH1	10.05	1.46	1.32
1	A	408	ASP	CA-C	10.05	1.66	1.52
2	B	1019	SER	N-CA	-10.05	1.33	1.46
8	J	54	VAL	C-N	10.05	1.46	1.33
9	K	92	ASN	CA-CB	10.05	1.69	1.53
1	A	1277	GLU	CD-OE1	10.05	1.44	1.25
7	I	3	THR	CB-CG2	10.05	1.85	1.52
1	A	1012	ARG	N-CA	-10.04	1.33	1.46
1	A	553	VAL	CB-CG1	-10.04	1.19	1.52
10	L	55	ILE	CA-CB	-10.04	1.42	1.54
1	A	677	ARG	N-CA	10.04	1.58	1.46
1	A	1235	LYS	CB-CG	10.04	1.82	1.52
1	A	793	SER	C-O	-10.04	1.10	1.23
1	A	963	ILE	C-N	-10.04	1.21	1.33
2	B	680	THR	C-O	10.04	1.36	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	726	ARG	CA-C	-10.03	1.39	1.52
1	A	681	GLU	CG-CD	10.03	1.77	1.52
2	B	459	TYR	C-O	-10.03	1.12	1.24
1	A	296	LEU	C-O	-10.03	1.11	1.24
2	B	1083	ALA	N-CA	10.03	1.58	1.45
2	B	272	THR	CA-C	-10.02	1.40	1.52
1	A	477	PRO	N-CA	-10.02	1.33	1.47
2	B	226	PHE	CG-CD2	10.02	1.59	1.38
1	A	186	LYS	CB-CG	10.02	1.82	1.52
2	B	766	ARG	CZ-NH1	10.02	1.46	1.32
6	H	144	ILE	C-O	10.02	1.35	1.23
1	A	5	GLN	CA-C	-10.01	1.39	1.53
1	A	1132	LYS	CE-NZ	10.01	1.79	1.49
2	B	811	TYR	CA-C	10.01	1.66	1.52
1	A	199	LEU	CG-CD1	10.01	1.85	1.52
1	A	1080	THR	N-CA	10.01	1.59	1.46
3	C	7	GLN	CD-NE2	10.00	1.54	1.33
7	I	72	ASP	CB-CG	10.00	1.77	1.52
1	A	941	LYS	CA-C	-10.00	1.40	1.52
1	A	1264	GLU	C-N	-10.00	1.21	1.33
2	B	555	ILE	CA-C	10.00	1.65	1.52
7	I	69	PRO	N-CA	-10.00	1.35	1.47
8	J	47	ARG	C-O	10.00	1.35	1.24
1	A	783	THR	C-O	-10.00	1.10	1.24
1	A	1066	VAL	CA-CB	-10.00	1.43	1.54
2	B	249	ARG	CG-CD	10.00	1.82	1.52
9	K	18	LYS	N-CA	10.00	1.58	1.46
2	B	99	LYS	CA-C	9.99	1.65	1.52
2	B	348	ARG	CA-C	-9.99	1.40	1.52
2	B	518	HIS	CA-C	9.99	1.66	1.52
7	I	119	THR	CA-CB	9.99	1.69	1.53
1	A	748	MET	CG-SD	9.99	2.05	1.80
1	A	1117	THR	CA-CB	-9.99	1.39	1.53
3	C	168	ALA	CA-C	9.98	1.66	1.52
6	H	11	GLN	CB-CG	9.98	1.82	1.52
1	A	185	TRP	N-CA	-9.97	1.34	1.45
1	A	677	ARG	CD-NE	9.97	1.60	1.46
1	A	848	ILE	CA-CB	-9.97	1.42	1.54
1	A	1011	GLN	CD-OE1	-9.97	1.04	1.23
1	A	1142	THR	CA-CB	-9.97	1.38	1.53
2	B	325	GLN	C-O	-9.97	1.10	1.24
2	B	578	THR	CB-OG1	9.97	1.59	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	922	ASP	CA-CB	9.97	1.65	1.53
2	B	213	ILE	N-CA	-9.96	1.33	1.46
2	B	389	ALA	CA-C	-9.96	1.39	1.52
2	B	870	ILE	C-O	9.97	1.35	1.23
2	B	408	LEU	C-O	-9.96	1.09	1.24
2	B	970	THR	CA-CB	-9.96	1.33	1.54
1	A	352	VAL	CA-CB	-9.96	1.42	1.54
1	A	1419	ASP	CG-OD2	9.96	1.44	1.25
1	A	608	ILE	CB-CG1	9.96	1.73	1.53
2	B	887	HIS	CA-C	9.96	1.66	1.52
1	A	742	ASN	C-O	-9.96	1.11	1.24
2	B	397	ASP	C-O	9.96	1.36	1.23
2	B	265	SER	N-CA	9.95	1.58	1.46
1	A	572	TRP	CZ3-CH2	-9.95	1.15	1.40
1	A	514	PRO	CG-CD	-9.95	1.17	1.50
1	A	572	TRP	CA-C	9.95	1.66	1.52
1	A	1152	ILE	C-O	-9.95	1.13	1.24
1	A	593	GLU	C-N	9.94	1.48	1.33
3	C	92	CYS	CA-CB	9.94	1.67	1.53
1	A	867	ILE	CB-CG2	9.94	1.85	1.52
4	E	70	SER	C-O	9.94	1.35	1.24
1	A	842	VAL	CB-CG2	-9.94	1.19	1.52
1	A	1106	ASN	C-N	-9.94	1.20	1.33
2	B	371	GLU	C-O	-9.94	1.11	1.24
2	B	959	ASP	CA-CB	9.94	1.71	1.53
4	E	40	GLU	CD-OE1	9.94	1.44	1.25
4	E	8	ASN	C-O	-9.93	1.11	1.24
10	L	50	ASP	C-O	9.93	1.36	1.24
1	A	728	LYS	C-O	9.93	1.36	1.24
1	A	847	ASP	C-O	-9.93	1.10	1.24
6	H	21	ASN	C-O	-9.93	1.09	1.23
3	C	56	THR	CB-CG2	-9.92	1.19	1.52
1	A	206	GLU	CA-C	-9.92	1.38	1.52
2	B	183	GLU	CD-OE1	9.92	1.44	1.25
2	B	903	VAL	CA-CB	-9.92	1.41	1.54
9	K	70	ARG	CA-C	-9.92	1.40	1.52
2	B	1077	THR	C-O	-9.92	1.11	1.24
4	E	131	THR	CA-CB	9.92	1.77	1.53
4	E	186	LEU	CA-C	-9.92	1.39	1.52
1	A	920	LEU	CA-C	-9.92	1.40	1.52
2	B	821	GLN	N-CA	-9.92	1.33	1.45
1	A	290	GLU	CD-OE2	9.91	1.44	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	813	PHE	C-O	9.91	1.35	1.24
6	H	50	ALA	CA-CB	9.90	1.69	1.53
1	A	1068	ALA	CA-CB	-9.90	1.37	1.53
2	B	351	TYR	CG-CD2	-9.90	1.18	1.39
2	B	488	TYR	C-O	9.90	1.35	1.24
2	B	542	MET	CA-CB	9.90	1.67	1.53
2	B	115	GLN	CG-CD	9.89	1.76	1.52
3	C	135	GLN	C-O	-9.89	1.12	1.23
2	B	624	LEU	CA-CB	-9.89	1.37	1.53
1	A	1314	SER	N-CA	-9.89	1.33	1.46
6	H	104	PHE	CA-CB	9.89	1.70	1.53
9	K	27	ALA	CA-C	9.89	1.65	1.52
2	B	963	PHE	C-O	9.88	1.36	1.23
9	K	66	PRO	C-O	-9.88	1.11	1.24
1	A	1193	LEU	N-CA	9.88	1.58	1.46
2	B	18	PHE	CG-CD2	9.88	1.59	1.38
3	C	34	ARG	CA-C	-9.88	1.38	1.52
1	A	1026	LEU	C-O	-9.87	1.09	1.23
2	B	649	LYS	C-O	9.88	1.36	1.24
6	H	142	LEU	CA-CB	-9.88	1.36	1.53
7	I	79	HIS	CA-C	9.87	1.66	1.52
1	A	1339	LEU	N-CA	-9.87	1.31	1.45
3	C	26	ASP	CA-C	9.87	1.66	1.52
2	B	421	PHE	C-O	-9.87	1.11	1.24
2	B	1189	ILE	CA-CB	9.87	1.67	1.54
7	I	87	GLN	C-O	-9.86	1.10	1.23
9	K	23	PRO	C-O	9.87	1.36	1.24
3	C	244	VAL	CA-CB	-9.86	1.41	1.54
1	A	164	ARG	CB-CG	-9.86	1.22	1.52
2	B	418	LYS	CD-CE	9.86	1.82	1.52
4	E	196	VAL	N-CA	9.86	1.58	1.46
9	K	58	PHE	C-O	9.86	1.35	1.23
9	K	103	THR	C-O	9.86	1.34	1.23
1	A	656	TRP	C-O	9.86	1.36	1.24
6	H	127	GLY	CA-C	9.85	1.65	1.51
1	A	37	PHE	CG-CD2	9.85	1.59	1.38
6	H	3	ASN	CA-CB	9.85	1.67	1.53
2	B	815	ARG	C-O	-9.85	1.11	1.24
1	A	1020	CYS	N-CA	-9.85	1.34	1.46
1	A	113	LEU	CA-C	9.85	1.64	1.52
4	E	135	PHE	CA-C	-9.85	1.40	1.52
2	B	627	PHE	CA-C	-9.84	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	I	31	THR	CA-C	9.84	1.65	1.52
7	I	58	VAL	CA-CB	-9.84	1.42	1.53
1	A	94	GLY	C-O	9.84	1.37	1.23
2	B	1085	ILE	C-N	-9.84	1.19	1.33
8	J	51	LEU	CA-CB	-9.84	1.36	1.53
1	A	381	THR	CB-OG1	-9.83	1.28	1.43
6	H	129	TYR	CE2-CZ	9.83	1.61	1.38
2	B	372	SER	C-N	-9.83	1.20	1.33
5	F	83	PRO	N-CA	-9.83	1.34	1.47
2	B	578	THR	CA-C	-9.83	1.40	1.52
2	B	1159	ARG	CA-C	9.83	1.64	1.52
2	B	45	SER	CA-C	-9.82	1.39	1.52
2	B	691	GLU	CD-OE1	9.82	1.44	1.25
6	H	9	ILE	C-O	9.82	1.34	1.24
9	K	61	TYR	CE2-CZ	-9.82	1.14	1.38
1	A	1147	THR	C-O	-9.82	1.12	1.24
1	A	1411	GLU	CG-CD	9.82	1.76	1.52
5	F	73	ALA	N-CA	9.82	1.58	1.46
1	A	800	VAL	CA-CB	-9.82	1.42	1.54
3	C	186	LEU	N-CA	9.82	1.58	1.46
1	A	302	THR	CA-C	9.81	1.66	1.52
1	A	891	ALA	CA-CB	9.81	1.68	1.53
4	E	2	ASP	N-CA	9.81	1.58	1.46
1	A	973	ILE	C-O	9.81	1.35	1.24
6	H	140	ALA	N-CA	9.81	1.58	1.46
1	A	994	GLN	C-O	-9.81	1.12	1.24
2	B	1219	ASP	C-O	9.81	1.35	1.24
4	E	23	VAL	CA-CB	-9.81	1.43	1.54
1	A	45	GLN	N-CA	9.81	1.58	1.46
2	B	1186	ASP	CA-CB	9.81	1.68	1.53
8	J	54	VAL	N-CA	-9.81	1.32	1.46
1	A	161	LEU	CA-C	-9.81	1.39	1.53
6	H	52	GLN	CA-C	9.81	1.66	1.52
1	A	1294	PRO	CA-C	9.80	1.67	1.52
2	B	98	THR	CA-C	-9.79	1.40	1.52
9	K	37	LYS	N-CA	-9.80	1.31	1.46
2	B	1193	GLN	CD-OE1	9.79	1.42	1.23
1	A	83	HIS	C-O	9.78	1.35	1.23
2	B	903	VAL	CA-C	-9.78	1.40	1.52
4	E	20	LYS	N-CA	-9.79	1.34	1.46
2	B	496	ARG	N-CA	-9.78	1.34	1.46
1	A	1411	GLU	CD-OE1	9.78	1.44	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1093	GLN	N-CA	-9.78	1.33	1.45
2	B	1129	ARG	CZ-NH1	9.78	1.46	1.32
1	A	468	PHE	CA-C	-9.78	1.40	1.52
1	A	601	LYS	CG-CD	9.78	1.81	1.52
2	B	246	LYS	CA-CB	9.78	1.67	1.53
2	B	292	ILE	CB-CG1	-9.78	1.33	1.53
3	C	20	PHE	CA-CB	-9.77	1.41	1.53
7	I	111	THR	CA-C	-9.77	1.40	1.52
3	C	47	ASP	C-O	-9.77	1.09	1.24
2	B	424	LEU	C-O	-9.77	1.11	1.24
1	A	688	LYS	C-O	-9.76	1.12	1.24
8	J	62	ARG	CZ-NH1	9.76	1.46	1.32
3	C	199	LYS	CD-CE	9.76	1.81	1.52
1	A	560	ILE	C-N	-9.76	1.21	1.33
1	A	194	ALA	CA-CB	9.76	1.70	1.53
1	A	1094	VAL	CB-CG1	9.76	1.84	1.52
5	F	96	THR	CA-CB	-9.76	1.38	1.53
4	E	155	ARG	N-CA	9.75	1.57	1.46
6	H	128	ASN	C-O	-9.75	1.11	1.24
7	I	105	SER	N-CA	9.75	1.58	1.46
1	A	579	SER	C-O	9.75	1.36	1.24
2	B	579	ARG	CA-CB	-9.75	1.38	1.53
8	J	6	ARG	C-O	9.75	1.36	1.23
1	A	571	LEU	CG-CD2	9.74	1.84	1.52
2	B	237	VAL	CA-CB	-9.74	1.38	1.55
1	A	983	ILE	C-N	-9.74	1.19	1.33
2	B	1181	GLU	CA-C	9.74	1.64	1.52
6	H	56	THR	CA-C	9.74	1.65	1.52
4	E	80	VAL	C-N	9.74	1.45	1.33
2	B	645	SER	CA-C	9.74	1.65	1.52
2	B	1153	GLU	CG-CD	9.73	1.76	1.52
6	H	35	GLN	CA-C	9.73	1.65	1.53
1	A	34	LYS	C-O	-9.73	1.11	1.24
1	A	356	ASP	C-N	-9.73	1.24	1.34
1	A	499	ALA	CA-C	-9.73	1.39	1.52
1	A	711	ARG	N-CA	-9.73	1.33	1.46
1	A	1191	TRP	C-N	-9.73	1.20	1.33
1	A	237	THR	C-N	9.73	1.46	1.33
4	E	40	GLU	CA-CB	9.73	1.69	1.53
7	I	20	LYS	CD-CE	9.73	1.81	1.52
10	L	64	LEU	CG-CD1	9.73	1.84	1.52
2	B	514	LEU	CA-C	-9.72	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	187	TYR	CG-CD1	-9.72	1.19	1.39
1	A	1144	LYS	N-CA	-9.72	1.34	1.46
2	B	661	LEU	C-N	-9.72	1.20	1.33
2	B	1194	ILE	C-O	9.72	1.35	1.23
1	A	439	ASN	CA-CB	-9.72	1.41	1.54
1	A	763	ALA	C-O	-9.72	1.10	1.24
5	F	79	ARG	CD-NE	-9.72	1.32	1.46
1	A	604	GLY	CA-C	-9.71	1.38	1.52
1	A	1358	SER	CA-CB	9.71	1.68	1.53
2	B	31	TRP	C-N	-9.71	1.19	1.33
2	B	320	ASP	C-O	-9.71	1.12	1.24
1	A	1154	TYR	CA-CB	9.71	1.66	1.53
1	A	1221	LYS	CG-CD	9.71	1.81	1.52
1	A	1266	THR	C-O	-9.71	1.12	1.24
2	B	292	ILE	CA-CB	9.71	1.66	1.54
3	C	262	LEU	CA-C	9.70	1.65	1.52
9	K	88	LYS	CG-CD	9.70	1.81	1.52
1	A	274	ILE	N-CA	9.70	1.57	1.46
1	A	190	ALA	CA-CB	9.70	1.69	1.53
2	B	202	TYR	CG-CD2	-9.70	1.19	1.39
5	F	100	GLN	CG-CD	9.70	1.76	1.52
2	B	261	ARG	CA-C	9.70	1.66	1.53
2	B	1061	GLU	CB-CG	9.70	1.81	1.52
2	B	315	LYS	N-CA	-9.70	1.37	1.46
1	A	279	LEU	CA-C	-9.69	1.39	1.52
2	B	343	ILE	CB-CG2	-9.69	1.20	1.52
4	E	169	ARG	CA-C	9.69	1.65	1.52
1	A	590	ARG	CZ-NH2	-9.69	1.20	1.33
1	A	1099	PRO	CA-C	-9.69	1.35	1.52
7	I	9	ASP	CG-OD2	9.69	1.43	1.25
1	A	264	PHE	CA-C	9.68	1.66	1.52
2	B	934	LYS	CA-CB	9.68	1.67	1.53
9	K	97	LYS	C-N	-9.68	1.20	1.33
1	A	991	LYS	C-O	-9.68	1.11	1.24
1	A	689	LYS	C-O	-9.67	1.12	1.24
3	C	67	LEU	N-CA	9.67	1.58	1.46
8	J	7	CYS	C-O	9.67	1.35	1.23
1	A	29	ALA	CA-C	9.67	1.66	1.52
1	A	1211	GLN	C-O	-9.67	1.12	1.24
3	C	154	LYS	CA-C	-9.67	1.40	1.52
2	B	252	SER	N-CA	9.67	1.58	1.46
2	B	325	GLN	N-CA	9.67	1.59	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	700	SER	CA-CB	-9.67	1.37	1.53
4	E	153	HIS	CA-C	-9.67	1.41	1.52
9	K	25	THR	CA-C	-9.67	1.39	1.52
1	A	170	THR	C-N	9.67	1.46	1.33
1	A	949	ASP	CB-CG	-9.67	1.27	1.52
1	A	383	TYR	N-CA	9.66	1.58	1.46
1	A	795	GLU	C-N	-9.66	1.21	1.33
2	B	396	ASP	C-N	9.66	1.46	1.33
3	C	256	ALA	N-CA	-9.66	1.33	1.46
1	A	1286	LYS	CA-C	-9.66	1.41	1.52
1	A	1368	MET	CA-C	-9.66	1.39	1.52
2	B	1107	ALA	CA-CB	-9.65	1.39	1.53
1	A	1232	ASN	CA-C	9.65	1.65	1.52
3	C	21	ILE	C-O	9.65	1.34	1.24
1	A	997	LEU	C-O	-9.65	1.12	1.23
1	A	1172	LEU	C-O	-9.65	1.10	1.23
2	B	874	PHE	CA-CB	9.65	1.65	1.53
9	K	108	GLU	CD-OE2	9.65	1.43	1.25
1	A	470	LEU	CA-C	-9.64	1.40	1.52
1	A	955	PRO	CA-CB	-9.64	1.41	1.53
1	A	1432	GLN	CA-C	-9.64	1.40	1.52
1	A	1420	ASP	N-CA	9.64	1.59	1.46
2	B	1170	THR	C-O	9.64	1.37	1.23
4	E	24	LYS	CA-C	-9.64	1.40	1.52
7	I	99	LEU	CG-CD1	-9.64	1.20	1.52
8	J	47	ARG	NE-CZ	-9.64	1.22	1.33
1	A	1005	GLU	CD-OE1	9.64	1.43	1.25
1	A	1023	ARG	CZ-NH1	-9.64	1.19	1.32
5	F	110	ASP	C-O	9.63	1.35	1.24
1	A	280	GLU	CA-C	9.63	1.66	1.52
1	A	860	LEU	C-O	-9.63	1.11	1.24
1	A	1339	LEU	CA-C	-9.63	1.39	1.52
1	A	217	LYS	CD-CE	9.63	1.81	1.52
1	A	694	THR	C-N	-9.63	1.21	1.33
2	B	225	VAL	CA-C	9.63	1.64	1.52
3	C	261	ALA	C-O	-9.63	1.11	1.24
2	B	663	ALA	CA-CB	9.63	1.69	1.53
7	I	68	LEU	CA-C	-9.63	1.39	1.52
2	B	1078	GLY	C-N	-9.62	1.20	1.33
1	A	1315	GLU	C-N	-9.62	1.23	1.34
2	B	857	ARG	NE-CZ	9.62	1.43	1.33
4	E	103	LYS	N-CA	9.62	1.57	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	357	GLN	CA-C	-9.62	1.39	1.52
4	E	5	ASN	CA-C	-9.61	1.40	1.52
7	I	82	GLU	CD-OE1	9.62	1.43	1.25
1	A	782	ARG	CZ-NH1	9.61	1.46	1.32
2	B	904	ARG	C-O	-9.61	1.12	1.23
1	A	43	GLU	C-O	9.61	1.36	1.24
3	C	76	ASP	N-CA	9.61	1.59	1.46
1	A	1012	ARG	CD-NE	9.61	1.59	1.46
1	A	171	GLN	CD-NE2	9.61	1.53	1.33
2	B	406	LEU	CA-C	9.61	1.64	1.52
2	B	912	ILE	N-CA	-9.61	1.34	1.46
1	A	1322	ILE	C-O	9.60	1.33	1.23
2	B	303	TYR	CE1-CZ	-9.60	1.15	1.38
2	B	651	LEU	CG-CD2	-9.60	1.20	1.52
1	A	1063	MET	C-O	-9.60	1.10	1.23
3	C	163	ILE	CB-CG2	9.60	1.84	1.52
1	A	226	GLU	CD-OE2	9.60	1.43	1.25
1	A	866	PHE	C-N	-9.60	1.21	1.33
1	A	637	LYS	CA-C	-9.59	1.39	1.52
2	B	230	ALA	N-CA	9.59	1.59	1.46
1	A	917	SER	CA-C	-9.59	1.41	1.52
3	C	41	ILE	C-O	9.59	1.37	1.24
2	B	908	GLU	CA-CB	9.59	1.66	1.53
2	B	457	LEU	N-CA	-9.59	1.35	1.47
2	B	1075	GLY	C-O	9.59	1.37	1.23
8	J	24	LEU	C-N	-9.59	1.19	1.33
1	A	300	VAL	CA-CB	-9.59	1.43	1.54
2	B	246	LYS	N-CA	9.59	1.58	1.46
1	A	3	GLY	N-CA	9.58	1.60	1.45
1	A	205	GLU	CG-CD	9.58	1.76	1.52
2	B	1213	THR	CA-CB	-9.58	1.36	1.52
1	A	795	GLU	CG-CD	9.58	1.76	1.52
1	A	1065	GLY	C-O	9.58	1.36	1.23
1	A	1290	LYS	CD-CE	9.58	1.81	1.52
2	B	405	ARG	C-O	-9.58	1.12	1.23
2	B	842	ASN	CG-ND2	-9.58	1.13	1.33
3	C	239	PRO	C-N	-9.58	1.22	1.33
4	E	99	HIS	CA-CB	9.58	1.69	1.53
4	E	204	THR	CA-CB	-9.58	1.38	1.53
2	B	541	LEU	CA-CB	-9.58	1.36	1.53
9	K	62	LYS	C-O	9.58	1.35	1.23
2	B	626	ILE	CA-CB	-9.57	1.41	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	47	CYS	CA-C	9.57	1.64	1.52
1	A	419	LYS	C-O	-9.57	1.11	1.24
2	B	51	PHE	CB-CG	-9.57	1.28	1.50
2	B	983	ARG	N-CA	-9.57	1.35	1.46
1	A	933	TYR	CG-CD1	-9.57	1.19	1.39
2	B	1148	LYS	CD-CE	9.57	1.81	1.52
2	B	318	VAL	N-CA	-9.57	1.35	1.46
1	A	488	ASN	N-CA	-9.56	1.34	1.45
1	A	1052	GLN	CA-CB	-9.56	1.38	1.53
2	B	771	SER	C-O	-9.56	1.12	1.24
2	B	622	LYS	CB-CG	9.56	1.81	1.52
7	I	8	ARG	CZ-NH1	9.56	1.46	1.32
1	A	414	ASP	CA-C	-9.55	1.40	1.53
4	E	165	LEU	CG-CD1	9.55	1.84	1.52
9	K	6	ARG	CB-CG	-9.55	1.23	1.52
1	A	1162	VAL	CA-C	-9.55	1.41	1.52
1	A	625	SER	CA-CB	-9.55	1.38	1.53
2	B	1013	ASN	C-N	-9.55	1.20	1.33
2	B	282	ILE	N-CA	-9.54	1.33	1.46
5	F	108	PHE	N-CA	-9.54	1.35	1.46
7	I	85	PHE	C-O	-9.54	1.12	1.23
1	A	503	GLN	CD-OE1	9.54	1.41	1.23
2	B	461	LEU	C-O	-9.54	1.12	1.24
2	B	760	ASP	CG-OD2	9.54	1.43	1.25
7	I	68	LEU	C-O	-9.54	1.09	1.24
2	B	865	LYS	CA-CB	9.54	1.69	1.53
2	B	1026	LEU	N-CA	-9.54	1.34	1.46
1	A	696	GLU	N-CA	-9.54	1.34	1.46
2	B	805	THR	CB-OG1	9.53	1.59	1.43
2	B	1218	THR	CA-CB	-9.53	1.37	1.53
6	H	59	ILE	C-O	-9.54	1.11	1.24
1	A	1153	TYR	N-CA	-9.53	1.34	1.45
1	A	213	HIS	CB-CG	9.53	1.63	1.50
3	C	122	SER	CA-C	-9.53	1.40	1.52
1	A	1264	GLU	CA-C	-9.53	1.41	1.52
7	I	45	ARG	CG-CD	9.53	1.81	1.52
3	C	214	ASN	CB-CG	9.52	1.75	1.52
2	B	184	ALA	CA-C	-9.52	1.40	1.53
2	B	754	SER	CB-OG	9.52	1.61	1.42
1	A	833	GLU	CD-OE1	9.51	1.43	1.25
1	A	1238	ILE	CA-C	9.51	1.63	1.52
1	A	757	ASN	CA-C	-9.51	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	630	ILE	CA-CB	-9.51	1.41	1.54
2	B	385	LEU	C-O	-9.51	1.13	1.24
2	B	217	ARG	CZ-NH1	-9.50	1.19	1.32
3	C	37	MET	CA-C	-9.50	1.40	1.52
8	J	2	ILE	CA-CB	9.50	1.69	1.55
1	A	1298	TYR	CA-CB	-9.50	1.38	1.53
1	A	106	VAL	N-CA	-9.50	1.33	1.45
1	A	385	ILE	CA-CB	-9.50	1.43	1.54
1	A	1136	SER	N-CA	-9.50	1.33	1.46
1	A	1159	ARG	C-O	-9.50	1.11	1.24
2	B	957	ASN	CA-C	9.50	1.65	1.52
8	J	54	VAL	CA-C	9.50	1.65	1.52
6	H	45	GLU	CD-OE1	9.49	1.43	1.25
5	F	75	PRO	C-O	-9.49	1.12	1.23
10	L	42	ARG	NE-CZ	9.49	1.43	1.33
1	A	387	ARG	CG-CD	9.49	1.80	1.52
1	A	778	GLY	C-O	-9.49	1.12	1.23
10	L	51	CYS	N-CA	9.49	1.57	1.46
1	A	1436	ILE	C-O	-9.49	1.14	1.24
2	B	879	ARG	N-CA	9.49	1.58	1.46
6	H	110	ASP	N-CA	9.49	1.55	1.46
1	A	476	SER	CA-C	9.48	1.64	1.52
2	B	788	ARG	N-CA	9.48	1.58	1.45
6	H	77	ARG	CB-CG	9.48	1.80	1.52
1	A	1020	CYS	CA-C	9.48	1.65	1.52
1	A	427	GLN	CB-CG	9.48	1.80	1.52
1	A	711	ARG	CB-CG	9.48	1.80	1.52
1	A	724	GLU	CD-OE2	9.48	1.43	1.25
2	B	602	THR	N-CA	9.48	1.57	1.46
3	C	237	SER	C-N	-9.48	1.22	1.33
2	B	766	ARG	N-CA	-9.47	1.33	1.46
3	C	15	LYS	N-CA	9.47	1.58	1.46
5	F	92	ARG	NE-CZ	9.47	1.43	1.33
1	A	37	PHE	C-O	-9.47	1.11	1.24
6	H	111	LEU	C-O	9.47	1.35	1.23
8	J	53	HIS	N-CA	9.47	1.57	1.46
2	B	710	LEU	CA-CB	-9.46	1.41	1.53
2	B	826	ALA	C-O	-9.46	1.12	1.23
5	F	99	LEU	CA-C	9.46	1.65	1.52
2	B	235	SER	CA-CB	-9.46	1.40	1.53
2	B	814	PHE	CE2-CZ	-9.46	1.10	1.38
1	A	4	GLN	CB-CG	9.46	1.80	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	535	THR	N-CA	9.45	1.57	1.46
1	A	1062	GLU	CA-CB	-9.45	1.37	1.53
2	B	1027	ILE	C-O	-9.45	1.11	1.24
4	E	66	GLU	CA-CB	9.45	1.68	1.53
3	C	233	GLU	CA-C	-9.45	1.40	1.52
1	A	139	TRP	N-CA	9.45	1.57	1.46
1	A	225	ASN	C-N	9.45	1.46	1.33
2	B	862	GLN	N-CA	9.45	1.57	1.45
1	A	36	ARG	CA-C	-9.45	1.40	1.52
2	B	732	SER	CA-CB	9.45	1.69	1.53
2	B	1067	ARG	C-O	9.45	1.36	1.23
9	K	32	VAL	C-O	9.45	1.34	1.24
1	A	90	VAL	CA-C	-9.44	1.41	1.52
1	A	527	THR	CB-OG1	9.44	1.58	1.43
4	E	207	ARG	CA-C	-9.44	1.41	1.52
4	E	202	SER	CA-C	-9.44	1.41	1.52
1	A	723	ASN	N-CA	-9.44	1.33	1.46
2	B	343	ILE	CA-CB	-9.44	1.43	1.54
2	B	650	GLU	CD-OE1	9.44	1.43	1.25
1	A	229	SER	CA-C	9.43	1.63	1.53
2	B	332	ASP	C-O	-9.43	1.13	1.24
4	E	169	ARG	N-CA	9.42	1.58	1.46
4	E	185	ALA	N-CA	-9.42	1.34	1.46
7	I	61	ASP	C-O	-9.42	1.12	1.24
2	B	553	PRO	C-N	9.42	1.45	1.33
2	B	763	GLN	CD-NE2	-9.42	1.13	1.33
4	E	59	SER	C-O	9.42	1.35	1.24
6	H	48	PRO	C-O	9.42	1.35	1.23
1	A	492	PRO	C-O	-9.41	1.13	1.23
1	A	1216	ILE	CA-C	9.41	1.64	1.52
4	E	132	ILE	N-CA	-9.41	1.35	1.46
2	B	39	ARG	CA-CB	9.41	1.68	1.53
1	A	393	ARG	CZ-NH1	9.41	1.46	1.32
1	A	132	LYS	CG-CD	9.41	1.80	1.52
1	A	1292	PRO	N-CA	-9.41	1.35	1.47
2	B	59	LEU	CA-C	-9.41	1.41	1.52
2	B	1157	ALA	CA-C	9.41	1.64	1.53
6	H	123	MET	CG-SD	9.41	2.04	1.80
2	B	250	PHE	CG-CD2	9.41	1.58	1.38
1	A	1202	MET	C-O	9.40	1.35	1.24
1	A	537	ARG	CA-C	-9.40	1.40	1.52
1	A	598	LEU	C-O	-9.40	1.11	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	286	PHE	CG-CD2	-9.40	1.19	1.38
1	A	635	ARG	CG-CD	9.39	1.80	1.52
1	A	1275	GLY	CA-C	-9.39	1.42	1.52
2	B	882	THR	CB-CG2	9.39	1.83	1.52
3	C	85	ASP	C-O	-9.39	1.11	1.24
1	A	155	GLU	CD-OE2	9.39	1.43	1.25
10	L	68	GLU	CD-OE2	9.39	1.43	1.25
2	B	667	GLN	CD-OE1	9.39	1.41	1.23
2	B	692	TYR	CG-CD2	-9.39	1.19	1.39
3	C	159	ALA	CA-C	-9.39	1.39	1.53
4	E	82	PHE	CE1-CZ	-9.39	1.10	1.38
1	A	65	LEU	CA-CB	9.39	1.69	1.53
2	B	1057	LYS	N-CA	-9.38	1.35	1.46
3	C	94	LYS	N-CA	9.38	1.58	1.46
2	B	646	LEU	CB-CG	9.38	1.72	1.53
7	I	58	VAL	CB-CG1	-9.38	1.21	1.52
7	I	78	CYS	N-CA	9.38	1.58	1.46
2	B	235	SER	CB-OG	-9.38	1.23	1.42
9	K	9	LEU	CA-C	9.38	1.65	1.52
2	B	284	ILE	C-O	9.37	1.34	1.24
6	H	109	LYS	CA-CB	9.37	1.69	1.53
2	B	616	ILE	CA-CB	9.37	1.66	1.54
2	B	943	SER	CA-C	9.37	1.65	1.52
1	A	152	VAL	N-CA	9.37	1.58	1.46
1	A	951	GLU	CA-CB	-9.37	1.38	1.53
2	B	398	ARG	CA-CB	-9.37	1.37	1.53
2	B	595	ARG	C-N	-9.37	1.22	1.33
2	B	1204	PHE	CA-C	-9.37	1.40	1.52
1	A	1114	PRO	N-CA	-9.36	1.35	1.47
4	E	147	HIS	C-O	-9.37	1.12	1.23
6	H	57	VAL	C-O	-9.36	1.12	1.24
1	A	959	ASN	CA-CB	-9.36	1.40	1.52
2	B	1085	ILE	C-O	-9.36	1.13	1.24
7	I	35	VAL	C-O	-9.36	1.13	1.23
1	A	711	ARG	C-N	-9.36	1.21	1.34
2	B	1214	PRO	C-O	9.36	1.36	1.24
3	C	222	LYS	C-O	9.36	1.36	1.24
1	A	972	HIS	CA-CB	9.36	1.66	1.53
5	F	119	ARG	N-CA	-9.36	1.34	1.46
1	A	1215	ARG	C-O	9.36	1.34	1.24
2	B	981	ALA	CA-CB	-9.36	1.38	1.53
1	A	814	PHE	C-O	-9.35	1.12	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	855	PHE	C-O	-9.35	1.12	1.24
9	K	111	LEU	CG-CD1	9.35	1.83	1.52
3	C	180	TYR	CA-CB	-9.35	1.37	1.53
4	E	146	HIS	C-O	-9.35	1.11	1.24
1	A	912	LEU	C-N	-9.35	1.21	1.33
9	K	11	LEU	CG-CD1	9.34	1.83	1.52
1	A	295	LEU	CG-CD2	9.34	1.83	1.52
2	B	1097	HIS	CG-CD2	9.34	1.46	1.35
2	B	1137	CYS	CA-CB	-9.34	1.38	1.53
6	H	103	LYS	C-O	-9.34	1.12	1.24
2	B	1070	GLU	N-CA	-9.33	1.34	1.45
1	A	1362	TYR	CA-C	-9.33	1.42	1.52
2	B	249	ARG	N-CA	9.33	1.58	1.46
2	B	561	TRP	CD2-CE3	9.33	1.55	1.40
2	B	412	LEU	C-O	-9.33	1.13	1.24
1	A	461	LYS	C-O	9.33	1.34	1.24
1	A	771	GLU	CA-C	-9.33	1.41	1.53
1	A	1040	GLN	C-O	-9.33	1.12	1.24
2	B	626	ILE	CB-CG1	-9.33	1.34	1.53
1	A	724	GLU	CD-OE1	9.32	1.43	1.25
2	B	513	GLN	CD-OE1	9.32	1.41	1.23
1	A	929	LEU	N-CA	-9.32	1.34	1.46
1	A	204	THR	CA-C	9.32	1.65	1.52
1	A	801	GLU	CD-OE2	9.32	1.43	1.25
1	A	123	ARG	CG-CD	9.32	1.80	1.52
1	A	981	LEU	C-O	-9.32	1.12	1.23
2	B	1181	GLU	N-CA	9.32	1.57	1.46
1	A	705	LYS	CE-NZ	9.31	1.77	1.49
2	B	60	GLN	CA-C	-9.31	1.40	1.52
2	B	972	LYS	CA-C	-9.31	1.41	1.52
2	B	780	VAL	CA-C	-9.31	1.41	1.52
1	A	28	ARG	NE-CZ	9.31	1.43	1.33
2	B	1130	PHE	CG-CD2	-9.31	1.19	1.38
1	A	622	VAL	CA-CB	-9.30	1.43	1.54
1	A	783	THR	CA-CB	-9.31	1.37	1.53
10	L	37	LYS	CB-CG	-9.30	1.24	1.52
2	B	871	THR	N-CA	9.30	1.57	1.45
3	C	51	VAL	CA-C	9.30	1.64	1.52
7	I	110	PHE	CG-CD2	-9.29	1.19	1.38
1	A	596	THR	CA-C	-9.29	1.40	1.53
1	A	1304	TRP	CE2-CZ2	-9.29	1.20	1.39
2	B	137	TYR	CG-CD1	9.29	1.58	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	100	THR	CA-C	-9.29	1.41	1.52
1	A	1003	LYS	CB-CG	9.29	1.80	1.52
6	H	89	LEU	CA-CB	9.29	1.69	1.53
3	C	53	THR	C-O	9.29	1.35	1.23
1	A	539	THR	N-CA	-9.29	1.34	1.46
2	B	124	TYR	C-N	9.28	1.46	1.33
1	A	94	GLY	CA-C	9.28	1.65	1.51
2	B	257	LYS	C-O	-9.28	1.12	1.24
10	L	49	LYS	CG-CD	9.28	1.80	1.52
1	A	1078	GLN	N-CA	9.28	1.56	1.46
2	B	375	ALA	N-CA	-9.28	1.35	1.46
3	C	253	LYS	N-CA	9.28	1.57	1.46
1	A	695	LYS	CG-CD	9.28	1.80	1.52
3	C	15	LYS	CD-CE	9.28	1.80	1.52
1	A	163	SER	CA-C	-9.27	1.40	1.52
2	B	639	ILE	N-CA	-9.27	1.35	1.46
6	H	119	GLY	C-O	9.27	1.36	1.23
1	A	731	ARG	C-O	-9.27	1.13	1.24
1	A	1297	GLU	CA-CB	-9.27	1.39	1.53
2	B	465	ASN	C-O	9.27	1.34	1.23
1	A	1166	ASP	CG-OD2	9.27	1.43	1.25
1	A	451	HIS	N-CA	-9.26	1.35	1.46
1	A	762	SER	C-O	-9.26	1.11	1.24
2	B	860	MET	C-O	-9.26	1.12	1.23
3	C	210	GLU	C-O	-9.26	1.12	1.23
6	H	85	GLY	CA-C	9.26	1.65	1.51
1	A	892	ALA	CA-CB	-9.25	1.38	1.53
1	A	1047	SER	CB-OG	9.25	1.60	1.42
2	B	308	TRP	N-CA	-9.25	1.33	1.46
10	L	40	LEU	CA-CB	9.25	1.67	1.53
3	C	34	ARG	NE-CZ	-9.25	1.22	1.33
5	F	110	ASP	CG-OD1	9.25	1.43	1.25
3	C	126	GLY	CA-C	9.25	1.65	1.51
10	L	42	ARG	N-CA	9.25	1.57	1.46
1	A	1130	GLN	CD-NE2	9.24	1.52	1.33
1	A	467	THR	CA-CB	-9.24	1.36	1.53
1	A	1274	ARG	NE-CZ	-9.24	1.22	1.33
1	A	1449	SER	CA-C	9.24	1.63	1.52
1	A	366	VAL	CA-C	9.24	1.59	1.52
1	A	1132	LYS	CG-CD	9.24	1.80	1.52
1	A	122	MET	CA-CB	-9.23	1.37	1.53
2	B	773	MET	SD-CE	-9.23	1.56	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	854	ASN	C-O	-9.23	1.12	1.24
1	A	1362	TYR	N-CA	9.23	1.57	1.46
2	B	624	LEU	CG-CD1	-9.23	1.22	1.52
4	E	202	SER	N-CA	9.23	1.57	1.46
1	A	1102	LYS	CA-C	9.22	1.64	1.52
6	H	8	ASP	C-O	9.22	1.32	1.24
1	A	810	PRO	N-CA	-9.22	1.35	1.47
4	E	45	LYS	CA-C	9.22	1.65	1.52
1	A	467	THR	C-O	-9.22	1.12	1.23
1	A	381	THR	C-O	-9.22	1.14	1.24
1	A	129	LYS	CB-CG	9.21	1.80	1.52
2	B	20	ASP	C-O	-9.21	1.12	1.23
2	B	257	LYS	N-CA	-9.21	1.34	1.46
1	A	232	GLU	CD-OE1	9.21	1.42	1.25
1	A	836	TYR	CG-CD2	9.21	1.58	1.39
1	A	1371	LEU	C-O	9.21	1.34	1.24
2	B	793	ALA	C-O	-9.21	1.12	1.23
2	B	31	TRP	N-CA	-9.21	1.34	1.46
2	B	876	LYS	C-O	-9.21	1.12	1.24
6	H	139	ASN	C-O	9.21	1.35	1.24
9	K	61	TYR	C-O	-9.21	1.11	1.23
1	A	555	ASP	C-O	-9.21	1.07	1.23
1	A	1276	VAL	C-O	-9.21	1.14	1.24
10	L	54	ARG	CG-CD	9.21	1.80	1.52
2	B	251	ILE	CA-CB	9.21	1.67	1.54
7	I	77	LYS	CG-CD	9.21	1.80	1.52
2	B	451	LYS	CG-CD	9.20	1.80	1.52
2	B	1101	ASP	CB-CG	9.20	1.75	1.52
1	A	361	LEU	CA-C	-9.20	1.39	1.52
2	B	241	ARG	C-O	-9.20	1.11	1.23
2	B	565	PRO	CA-CB	-9.20	1.42	1.53
2	B	1210	MET	CA-C	-9.20	1.38	1.52
1	A	48	ALA	N-CA	9.20	1.58	1.46
1	A	1164	PRO	CA-CB	9.19	1.66	1.53
1	A	686	ALA	C-O	-9.19	1.12	1.24
2	B	239	GLU	N-CA	-9.19	1.34	1.46
2	B	498	THR	C-O	-9.19	1.12	1.23
3	C	34	ARG	C-N	-9.19	1.21	1.33
1	A	1366	ARG	CZ-NH1	9.19	1.45	1.32
5	F	95	GLY	CA-C	9.19	1.63	1.51
2	B	417	PHE	CA-C	9.19	1.65	1.52
2	B	1172	ILE	CA-CB	9.19	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1156	PRO	CA-C	9.18	1.67	1.52
1	A	816	HIS	N-CA	9.18	1.58	1.46
3	C	227	THR	CA-C	9.18	1.63	1.52
2	B	328	GLU	C-O	-9.18	1.13	1.24
1	A	486	GLU	CD-OE2	-9.18	1.07	1.25
1	A	744	LYS	CD-CE	9.18	1.79	1.52
1	A	965	GLN	CG-CD	9.18	1.75	1.52
2	B	1013	ASN	CA-C	-9.18	1.41	1.53
4	E	207	ARG	NE-CZ	9.18	1.43	1.33
1	A	40	THR	CA-CB	9.17	1.70	1.53
1	A	766	GLY	CA-C	-9.17	1.40	1.52
2	B	595	ARG	CA-C	-9.17	1.40	1.52
2	B	893	LEU	CG-CD2	-9.17	1.22	1.52
1	A	387	ARG	CD-NE	9.17	1.59	1.46
3	C	238	ILE	CB-CG1	-9.17	1.35	1.53
2	B	189	LEU	C-O	9.17	1.34	1.24
3	C	146	LYS	N-CA	-9.17	1.34	1.46
2	B	173	MET	SD-CE	-9.16	1.56	1.79
10	L	60	ARG	CD-NE	9.16	1.59	1.46
1	A	489	LEU	N-CA	-9.16	1.34	1.45
2	B	664	THR	C-O	-9.16	1.12	1.24
4	E	79	TRP	CB-CG	9.16	1.78	1.50
2	B	801	LYS	CA-C	-9.16	1.41	1.53
4	E	180	ARG	CZ-NH2	9.15	1.45	1.33
10	L	31	CYS	N-CA	9.15	1.57	1.46
1	A	694	THR	C-O	-9.15	1.13	1.24
1	A	911	SER	N-CA	9.15	1.58	1.46
1	A	302	THR	CA-CB	9.15	1.68	1.53
1	A	349	ALA	CA-C	-9.15	1.41	1.52
1	A	1154	TYR	C-O	9.15	1.35	1.24
2	B	323	VAL	N-CA	-9.15	1.33	1.46
1	A	1291	VAL	C-O	-9.15	1.17	1.24
2	B	192	LEU	CG-CD2	9.15	1.82	1.52
3	C	5	GLY	C-O	-9.14	1.11	1.24
4	E	155	ARG	CA-C	-9.14	1.40	1.52
1	A	666	ILE	CA-CB	-9.14	1.41	1.54
1	A	685	GLU	CA-C	-9.14	1.40	1.52
3	C	109	SER	CA-C	9.14	1.65	1.52
1	A	49	LYS	CG-CD	9.14	1.79	1.52
1	A	472	LEU	CB-CG	-9.14	1.35	1.53
1	A	827	THR	CA-C	-9.13	1.40	1.52
2	B	822	ASN	CG-ND2	9.14	1.52	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	432	MET	SD-CE	9.13	2.02	1.79
7	I	78	CYS	CA-CB	9.13	1.68	1.53
1	A	69	THR	C-O	9.13	1.35	1.24
1	A	975	HIS	CB-CG	9.13	1.62	1.50
3	C	246	ARG	CA-C	9.13	1.65	1.52
1	A	15	LYS	CB-CG	9.12	1.79	1.52
1	A	470	LEU	C-O	9.12	1.34	1.23
2	B	347	LYS	N-CA	-9.12	1.34	1.46
2	B	415	GLN	CA-C	-9.12	1.40	1.52
3	C	267	GLN	N-CA	9.12	1.57	1.46
1	A	1225	PHE	CE1-CZ	9.12	1.66	1.38
2	B	451	LYS	N-CA	-9.12	1.34	1.46
2	B	776	GLN	CA-CB	-9.12	1.38	1.53
2	B	1135	ARG	CG-CD	-9.12	1.25	1.52
2	B	35	SER	C-O	-9.12	1.13	1.24
2	B	1197	PRO	CA-CB	-9.11	1.41	1.53
1	A	518	LYS	C-O	-9.11	1.12	1.24
2	B	266	ALA	CA-CB	9.11	1.68	1.53
2	B	741	CYS	CA-CB	-9.11	1.34	1.54
1	A	239	LEU	C-O	9.11	1.34	1.24
1	A	1221	LYS	CB-CG	9.11	1.79	1.52
2	B	994	TYR	N-CA	-9.11	1.34	1.46
4	E	2	ASP	C-O	9.11	1.35	1.24
1	A	853	ASP	CB-CG	-9.10	1.29	1.52
1	A	512	VAL	CA-CB	-9.10	1.43	1.54
1	A	874	ASP	CG-OD1	9.10	1.42	1.25
2	B	606	LYS	CA-C	9.10	1.64	1.52
10	L	36	SER	CB-OG	9.10	1.60	1.42
2	B	587	HIS	N-CA	-9.10	1.33	1.46
2	B	889	THR	N-CA	9.10	1.57	1.46
3	C	191	TYR	CB-CG	9.10	1.71	1.51
4	E	6	GLU	C-O	-9.10	1.13	1.24
2	B	231	PRO	N-CD	9.09	1.60	1.47
6	H	15	VAL	C-O	9.09	1.34	1.24
7	I	43	VAL	CB-CG1	-9.09	1.22	1.52
9	K	78	THR	CA-CB	-9.09	1.38	1.53
10	L	59	ALA	CA-CB	9.09	1.68	1.53
1	A	1214	GLU	C-O	9.09	1.35	1.24
9	K	16	GLU	CG-CD	9.09	1.74	1.52
1	A	346	ASP	CA-CB	9.09	1.71	1.53
2	B	710	LEU	CG-CD1	-9.09	1.22	1.52
4	E	145	THR	CA-CB	-9.09	1.38	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	58	LEU	C-O	9.08	1.35	1.24
2	B	362	PRO	N-CA	-9.08	1.35	1.47
1	A	1112	LYS	CB-CG	9.08	1.79	1.52
2	B	681	TRP	CG-CD1	-9.08	1.14	1.36
2	B	89	GLU	C-N	9.08	1.46	1.33
2	B	534	GLY	N-CA	-9.08	1.32	1.45
1	A	93	VAL	CA-CB	9.07	1.65	1.54
3	C	28	ALA	CA-CB	-9.07	1.38	1.53
9	K	26	LYS	CA-CB	9.07	1.68	1.53
6	H	3	ASN	CA-C	9.07	1.64	1.52
9	K	46	ILE	N-CA	-9.07	1.35	1.46
1	A	125	ALA	N-CA	-9.06	1.34	1.46
1	A	435	HIS	N-CA	-9.06	1.33	1.45
1	A	751	SER	C-N	9.06	1.44	1.33
1	A	1030	ARG	NE-CZ	-9.06	1.23	1.33
2	B	895	ASP	CG-OD1	9.06	1.42	1.25
1	A	4	GLN	CA-C	9.06	1.69	1.52
1	A	109	HIS	C-O	-9.06	1.13	1.23
1	A	1114	PRO	N-CD	-9.06	1.35	1.47
3	C	63	ILE	C-N	9.06	1.46	1.34
3	C	147	LEU	C-O	-9.06	1.12	1.23
2	B	971	THR	CA-C	-9.06	1.41	1.52
3	C	90	ASP	CA-C	9.06	1.65	1.52
1	A	459	ARG	CA-CB	-9.06	1.40	1.53
1	A	749	ALA	CA-C	9.05	1.65	1.52
2	B	1183	LYS	CB-CG	9.05	1.79	1.52
1	A	856	THR	N-CA	-9.05	1.34	1.46
2	B	829	CYS	CA-C	-9.05	1.41	1.52
7	I	42	LEU	CA-CB	9.05	1.64	1.53
3	C	232	VAL	C-O	9.05	1.36	1.24
2	B	1062	HIS	C-O	9.05	1.38	1.24
2	B	1185	CYS	CA-C	9.05	1.64	1.52
1	A	503	GLN	C-O	-9.05	1.11	1.24
2	B	596	LEU	C-O	-9.04	1.13	1.24
2	B	1208	MET	SD-CE	-9.05	1.56	1.79
4	E	43	LYS	CE-NZ	9.04	1.76	1.49
6	H	146	ARG	CZ-NH1	9.04	1.45	1.32
1	A	1023	ARG	CA-C	-9.04	1.40	1.52
2	B	1192	TYR	CG-CD1	-9.04	1.20	1.39
3	C	43	THR	CB-OG1	-9.04	1.29	1.43
3	C	209	TYR	CE2-CZ	9.04	1.59	1.38
6	H	19	ARG	CD-NE	9.04	1.58	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	H	57	VAL	CA-C	9.04	1.62	1.52
1	A	112	LYS	C-O	-9.04	1.13	1.24
1	A	187	LYS	C-O	9.03	1.35	1.24
1	A	1128	GLN	CD-OE1	-9.03	1.06	1.23
6	H	141	TYR	CA-C	-9.03	1.40	1.53
7	I	73	ARG	NE-CZ	9.03	1.43	1.33
7	I	21	GLU	C-N	-9.03	1.22	1.33
1	A	806	ARG	CB-CG	9.03	1.79	1.52
1	A	1009	ASN	C-O	-9.03	1.12	1.24
2	B	384	ARG	CZ-NH1	-9.03	1.20	1.32
8	J	22	LEU	CA-C	9.03	1.64	1.52
3	C	67	LEU	CA-CB	9.02	1.67	1.53
4	E	151	PRO	CA-C	-9.02	1.39	1.52
1	A	485	ASP	N-CA	9.02	1.57	1.46
1	A	1328	TYR	CG-CD1	-9.02	1.20	1.39
1	A	1350	LYS	CD-CE	9.02	1.79	1.52
2	B	1095	LEU	CG-CD1	-9.02	1.22	1.52
4	E	166	LYS	CA-C	9.02	1.64	1.52
1	A	902	LEU	N-CA	-9.01	1.36	1.46
2	B	961	LEU	CG-CD2	9.01	1.82	1.52
5	F	100	GLN	CA-C	-9.01	1.41	1.52
2	B	667	GLN	CA-C	9.01	1.63	1.53
2	B	761	HIS	CG-CD2	9.01	1.45	1.35
4	E	57	MET	CA-CB	9.01	1.68	1.53
1	A	16	GLU	CD-OE1	9.01	1.42	1.25
1	A	373	THR	CA-C	-9.01	1.40	1.52
1	A	1064	VAL	N-CA	-9.01	1.33	1.46
2	B	221	ASN	C-O	9.01	1.46	1.24
2	B	853	SER	CB-OG	9.01	1.60	1.42
2	B	992	ILE	CB-CG2	-9.01	1.22	1.52
2	B	1001	PHE	CD2-CE2	9.01	1.65	1.38
3	C	154	LYS	N-CA	9.01	1.57	1.46
2	B	821	GLN	CD-OE1	-9.00	1.06	1.23
2	B	1080	LYS	CE-NZ	9.00	1.76	1.49
5	F	100	GLN	N-CA	-9.00	1.35	1.46
2	B	792	MET	CA-CB	-9.00	1.38	1.53
4	E	127	ILE	CA-C	-9.00	1.43	1.52
1	A	368	LYS	C-O	-9.00	1.13	1.24
2	B	350	GLN	CA-CB	-9.00	1.38	1.53
2	B	1207	LEU	CA-C	9.00	1.65	1.52
1	A	298	PHE	CG-CD2	8.99	1.57	1.38
1	A	1333	ILE	CA-CB	-8.99	1.43	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	954	TRP	CG-CD1	-8.99	1.14	1.36
7	I	72	ASP	N-CA	8.99	1.56	1.46
1	A	497	THR	N-CA	-8.98	1.35	1.46
2	B	791	THR	C-O	-8.98	1.13	1.24
3	C	124	LEU	C-O	8.98	1.35	1.24
1	A	1370	LEU	C-N	-8.98	1.22	1.33
2	B	211	VAL	CB-CG1	-8.98	1.23	1.52
3	C	30	ALA	C-O	8.98	1.34	1.24
2	B	418	LYS	CG-CD	8.97	1.79	1.52
1	A	403	LYS	CA-C	-8.97	1.40	1.52
1	A	859	SER	N-CA	-8.97	1.34	1.46
2	B	790	ASP	CA-CB	8.97	1.67	1.53
2	B	937	ALA	N-CA	8.97	1.59	1.46
7	I	20	LYS	C-O	8.97	1.34	1.24
1	A	449	SER	CA-CB	-8.96	1.41	1.52
2	B	126	SER	CA-C	-8.96	1.41	1.52
1	A	818	MET	C-O	-8.96	1.13	1.24
1	A	375	THR	C-O	-8.96	1.12	1.23
1	A	705	LYS	C-O	8.96	1.35	1.23
1	A	1013	ASP	CG-OD2	8.96	1.42	1.25
3	C	114	TYR	CE2-CZ	-8.96	1.16	1.38
4	E	204	THR	CB-CG2	-8.96	1.23	1.52
2	B	517	THR	CA-CB	8.95	1.69	1.53
2	B	742	GLU	N-CA	-8.95	1.34	1.46
1	A	1359	ASP	CB-CG	8.95	1.74	1.52
1	A	1337	GLU	CD-OE2	8.95	1.42	1.25
2	B	662	MET	C-O	-8.95	1.12	1.24
2	B	1150	ARG	CZ-NH2	8.95	1.45	1.33
4	E	112	TYR	C-O	-8.95	1.12	1.23
2	B	572	HIS	CA-C	8.94	1.64	1.52
1	A	156	ASP	N-CA	8.94	1.57	1.46
1	A	842	VAL	CA-C	8.94	1.64	1.52
3	C	70	ILE	CB-CG2	8.94	1.82	1.52
5	F	72	LYS	CG-CD	8.94	1.79	1.52
9	K	19	LEU	CA-C	8.94	1.63	1.52
1	A	680	THR	C-O	-8.94	1.12	1.24
2	B	734	HIS	C-O	8.94	1.38	1.23
2	B	1034	VAL	C-N	-8.94	1.21	1.33
5	F	133	VAL	CA-CB	-8.94	1.43	1.54
1	A	905	ASP	CA-CB	-8.94	1.39	1.53
1	A	147	VAL	CA-CB	8.94	1.67	1.54
1	A	424	ILE	CA-C	-8.94	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	350	GLN	CD-OE1	8.94	1.40	1.23
2	B	456	GLY	CA-C	8.93	1.64	1.51
2	B	1041	GLU	CD-OE2	8.93	1.42	1.25
6	H	83	GLN	CA-C	8.93	1.64	1.52
7	I	70	ARG	CZ-NH2	-8.93	1.21	1.33
9	K	71	PHE	N-CA	8.93	1.57	1.45
6	H	25	ARG	N-CA	8.93	1.57	1.46
8	J	57	ILE	C-O	-8.93	1.13	1.24
1	A	110	CYS	C-N	8.93	1.44	1.33
1	A	770	VAL	C-O	-8.93	1.14	1.24
4	E	162	ARG	CD-NE	8.93	1.58	1.46
9	K	18	LYS	C-O	-8.93	1.13	1.24
2	B	585	VAL	CA-C	8.92	1.63	1.52
1	A	725	ALA	CA-C	-8.92	1.41	1.52
1	A	1265	ASN	C-O	-8.92	1.13	1.24
2	B	384	ARG	CZ-NH2	-8.92	1.21	1.33
2	B	393	LYS	CA-C	-8.92	1.41	1.52
1	A	567	LYS	N-CA	8.92	1.58	1.46
9	K	106	GLU	C-O	8.92	1.35	1.24
1	A	572	TRP	CB-CG	-8.91	1.22	1.50
1	A	681	GLU	CD-OE1	8.91	1.42	1.25
2	B	1035	ALA	CA-CB	-8.91	1.39	1.53
3	C	50	GLU	N-CA	8.91	1.57	1.46
1	A	798	GLY	C-O	8.91	1.36	1.24
2	B	310	MET	CA-CB	-8.91	1.39	1.53
2	B	753	ALA	CA-CB	-8.91	1.38	1.53
1	A	754	SER	CA-CB	-8.91	1.39	1.53
1	A	228	PHE	N-CA	8.91	1.57	1.46
1	A	207	ILE	CA-C	-8.90	1.42	1.52
3	C	3	GLU	CD-OE2	8.90	1.42	1.25
4	E	124	VAL	CA-C	-8.90	1.43	1.52
2	B	337	ARG	C-O	8.90	1.37	1.24
1	A	637	LYS	C-O	-8.90	1.13	1.24
2	B	18	PHE	CA-CB	8.90	1.71	1.53
2	B	92	PHE	CA-C	8.90	1.64	1.52
2	B	116	GLU	N-CA	-8.90	1.35	1.46
1	A	1299	VAL	C-O	8.89	1.34	1.23
2	B	242	SER	C-O	-8.89	1.12	1.23
2	B	280	ILE	CA-CB	-8.89	1.43	1.54
2	B	812	LEU	C-O	-8.89	1.12	1.24
2	B	221	ASN	CA-CB	8.89	1.65	1.53
4	E	137	GLU	CA-C	8.89	1.64	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	28	TYR	CE2-CZ	-8.89	1.17	1.38
1	A	493	GLN	CA-CB	-8.89	1.39	1.53
1	A	11	LEU	C-O	-8.89	1.13	1.23
2	B	526	GLU	N-CA	8.88	1.57	1.46
4	E	170	LEU	N-CA	8.89	1.57	1.45
2	B	973	ILE	CA-C	8.88	1.62	1.52
1	A	65	LEU	CB-CG	8.88	1.71	1.53
2	B	608	ASP	CA-CB	8.88	1.67	1.53
2	B	935	ARG	CG-CD	8.88	1.79	1.52
3	C	230	MET	N-CA	-8.88	1.34	1.45
3	C	17	ASN	CA-C	-8.88	1.41	1.52
1	A	412	ARG	C-O	-8.87	1.13	1.24
2	B	307	ASP	CB-CG	-8.87	1.29	1.52
1	A	1323	ASP	CG-OD2	-8.87	1.08	1.25
1	A	769	SER	N-CA	-8.87	1.35	1.46
1	A	1045	VAL	CA-CB	-8.87	1.42	1.54
2	B	1134	GLU	CD-OE1	8.87	1.42	1.25
1	A	836	TYR	CZ-OH	8.87	1.56	1.38
1	A	626	ASN	CA-CB	8.87	1.64	1.53
1	A	830	LYS	CD-CE	8.86	1.79	1.52
2	B	512	ARG	CD-NE	-8.86	1.33	1.46
1	A	880	LYS	N-CA	-8.86	1.35	1.46
1	A	176	LYS	CA-CB	-8.85	1.40	1.53
1	A	447	GLN	CA-C	-8.85	1.42	1.53
2	B	175	ARG	CZ-NH2	8.85	1.45	1.33
2	B	249	ARG	CD-NE	8.85	1.58	1.46
2	B	465	ASN	CG-ND2	8.85	1.51	1.33
4	E	18	THR	CB-OG1	8.85	1.57	1.43
5	F	95	GLY	C-O	-8.85	1.13	1.24
1	A	1103	GLU	CD-OE2	8.85	1.42	1.25
1	A	1359	ASP	CG-OD1	8.85	1.42	1.25
2	B	306	ASN	CA-CB	8.85	1.69	1.53
2	B	328	GLU	CA-CB	8.85	1.67	1.53
2	B	410	GLY	C-N	-8.85	1.22	1.33
3	C	10	ILE	CA-CB	-8.85	1.42	1.54
6	H	21	ASN	C-N	-8.85	1.21	1.33
8	J	55	ASP	N-CA	8.85	1.58	1.46
3	C	15	LYS	CA-CB	8.85	1.69	1.53
2	B	531	GLN	C-N	8.85	1.47	1.33
4	E	211	TYR	CE1-CZ	-8.85	1.17	1.38
2	B	138	GLU	N-CA	8.84	1.63	1.46
1	A	484	GLY	N-CA	-8.84	1.32	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	866	PHE	CE1-CZ	-8.84	1.12	1.38
1	A	914	GLU	C-O	8.84	1.35	1.24
3	C	227	THR	CA-CB	8.84	1.69	1.53
7	I	72	ASP	CG-OD1	8.84	1.42	1.25
1	A	738	LYS	CA-C	-8.84	1.41	1.52
1	A	1158	PRO	CA-CB	8.84	1.68	1.53
2	B	795	ILE	C-O	-8.84	1.14	1.24
1	A	1041	ALA	CA-C	-8.83	1.41	1.52
1	A	1424	VAL	CA-CB	-8.83	1.43	1.54
2	B	967	ARG	CA-C	-8.83	1.41	1.52
2	B	531	GLN	CD-NE2	8.83	1.51	1.33
3	C	163	ILE	CB-CG1	-8.83	1.35	1.53
3	C	169	LYS	CA-C	-8.83	1.40	1.52
9	K	26	LYS	CB-CG	8.83	1.78	1.52
1	A	913	LEU	CA-CB	8.83	1.69	1.53
6	H	22	LYS	CB-CG	8.83	1.78	1.52
9	K	96	ASN	N-CA	8.82	1.57	1.46
2	B	1096	ARG	CZ-NH1	8.81	1.45	1.32
2	B	1106	ARG	N-CA	8.81	1.58	1.46
1	A	661	GLY	C-O	-8.81	1.13	1.24
1	A	744	LYS	C-O	-8.81	1.12	1.24
2	B	244	LEU	N-CA	8.81	1.56	1.46
2	B	389	ALA	CA-CB	-8.81	1.38	1.53
3	C	24	ASN	CA-C	8.81	1.65	1.53
5	F	80	ALA	CA-C	8.81	1.64	1.52
1	A	243	PRO	CA-CB	-8.81	1.42	1.54
1	A	1427	ASN	CA-CB	-8.81	1.38	1.53
2	B	53	GLN	CA-C	8.81	1.64	1.52
3	C	88	CYS	C-O	-8.80	1.11	1.23
7	I	105	SER	C-O	-8.80	1.12	1.24
5	F	98	ALA	CA-C	8.80	1.64	1.52
1	A	446	ARG	CA-CB	-8.80	1.41	1.53
10	L	40	LEU	C-N	8.80	1.46	1.33
1	A	715	GLU	CA-C	-8.80	1.41	1.52
1	A	1028	THR	C-O	8.80	1.34	1.24
1	A	1105	LEU	CA-C	-8.80	1.40	1.52
1	A	644	LYS	CA-CB	-8.80	1.39	1.53
2	B	172	ILE	CA-CB	-8.79	1.43	1.54
1	A	90	VAL	CA-CB	-8.79	1.40	1.55
2	B	115	GLN	CD-NE2	8.79	1.51	1.33
2	B	1049	ASP	C-O	-8.79	1.11	1.23
3	C	107	SER	CA-C	8.79	1.64	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	H	101	ALA	CA-C	-8.79	1.42	1.52
7	I	52	ILE	CB-CG2	-8.79	1.23	1.52
7	I	54	GLU	CD-OE2	8.79	1.42	1.25
9	K	66	PRO	CA-C	-8.79	1.41	1.52
2	B	984	HIS	C-O	-8.79	1.10	1.23
2	B	733	HIS	CA-CB	8.79	1.68	1.53
4	E	69	ILE	C-O	8.79	1.35	1.24
2	B	193	LYS	CG-CD	8.79	1.78	1.52
1	A	1426	GLU	N-CA	-8.78	1.35	1.46
2	B	113	TYR	N-CA	8.78	1.57	1.45
2	B	319	GLU	CD-OE1	8.79	1.42	1.25
9	K	81	TYR	C-O	-8.78	1.14	1.24
1	A	1450	LEU	CA-C	8.78	1.71	1.52
1	A	1383	SER	N-CA	-8.78	1.34	1.45
2	B	774	GLY	CA-C	8.78	1.64	1.51
4	E	91	LYS	CA-CB	8.78	1.67	1.53
4	E	102	GLU	CD-OE1	8.78	1.42	1.25
1	A	737	LEU	CG-CD2	8.78	1.81	1.52
2	B	96	TYR	CE1-CZ	8.78	1.59	1.38
3	C	99	LEU	C-N	8.78	1.47	1.33
7	I	6	PHE	C-O	-8.78	1.12	1.23
1	A	1280	GLU	CD-OE1	8.78	1.42	1.25
2	B	482	VAL	CA-CB	-8.78	1.43	1.54
2	B	986	GLN	N-CA	8.78	1.56	1.46
4	E	202	SER	CA-CB	-8.78	1.39	1.53
1	A	5	GLN	CA-CB	8.77	1.68	1.53
1	A	24	PRO	C-O	8.77	1.34	1.24
1	A	669	THR	CA-C	-8.77	1.41	1.52
1	A	835	GLY	N-CA	8.77	1.57	1.45
5	F	121	ALA	CA-C	-8.77	1.40	1.52
2	B	108	VAL	CA-C	8.77	1.63	1.52
3	C	167	HIS	C-N	-8.76	1.21	1.33
1	A	837	ILE	CA-CB	-8.76	1.44	1.54
1	A	1419	ASP	C-O	8.76	1.34	1.24
2	B	554	ILE	C-O	8.76	1.34	1.24
4	E	97	VAL	CA-C	8.76	1.64	1.52
5	F	144	GLU	C-O	-8.76	1.13	1.23
2	B	706	GLN	CD-NE2	8.76	1.51	1.33
2	B	959	ASP	CA-C	8.76	1.65	1.52
1	A	818	MET	C-N	-8.75	1.23	1.33
2	B	187	SER	C-O	8.75	1.34	1.24
1	A	430	TRP	N-CA	8.75	1.57	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1294	PRO	CB-CG	8.75	1.93	1.49
4	E	25	ASP	CB-CG	8.75	1.74	1.52
9	K	26	LYS	CD-CE	8.75	1.78	1.52
1	A	218	ASP	CG-OD1	8.75	1.42	1.25
1	A	635	ARG	C-O	-8.75	1.13	1.24
4	E	109	ILE	CB-CG2	-8.75	1.23	1.52
3	C	130	GLY	C-O	8.75	1.36	1.24
5	F	148	VAL	N-CA	-8.75	1.35	1.46
4	E	14	ARG	CA-C	-8.74	1.41	1.52
4	E	121	MET	SD-CE	8.74	2.01	1.79
1	A	461	LYS	CA-CB	-8.74	1.40	1.53
4	E	136	ASN	CG-OD1	8.74	1.40	1.23
1	A	388	LEU	CB-CG	-8.74	1.35	1.53
2	B	272	THR	CA-CB	-8.74	1.40	1.53
2	B	1046	PRO	C-O	8.74	1.33	1.23
2	B	579	ARG	N-CA	8.73	1.57	1.46
4	E	43	LYS	CB-CG	8.73	1.78	1.52
3	C	233	GLU	CD-OE1	8.73	1.42	1.25
7	I	52	ILE	CA-CB	-8.73	1.44	1.54
1	A	952	ALA	N-CA	-8.73	1.35	1.46
9	K	26	LYS	C-N	-8.73	1.23	1.33
1	A	819	GLY	C-O	8.73	1.34	1.23
1	A	866	PHE	C-O	-8.73	1.12	1.24
1	A	237	THR	CB-CG2	8.73	1.81	1.52
1	A	1188	GLN	C-O	8.73	1.34	1.24
2	B	485	ARG	C-N	-8.73	1.22	1.33
1	A	1155	ASP	C-O	-8.72	1.14	1.24
2	B	1173	ALA	C-O	8.72	1.33	1.23
2	B	459	TYR	CA-C	8.72	1.64	1.52
2	B	838	SER	CB-OG	-8.72	1.24	1.42
3	C	86	CYS	N-CA	8.72	1.57	1.46
1	A	730	GLY	C-O	-8.72	1.12	1.23
8	J	49	MET	CB-CG	-8.72	1.26	1.52
9	K	5	ASP	CA-C	8.72	1.64	1.52
1	A	468	PHE	C-O	-8.71	1.13	1.23
3	C	32	SER	CB-OG	-8.71	1.24	1.42
3	C	213	PRO	CA-C	-8.72	1.43	1.52
1	A	664	THR	CA-C	-8.71	1.42	1.52
1	A	722	LEU	CA-CB	-8.71	1.39	1.53
4	E	119	SER	CA-C	8.71	1.64	1.52
1	A	552	TRP	CD2-CE2	-8.71	1.26	1.41
1	A	1232	ASN	CG-OD1	8.71	1.40	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	35	VAL	CB-CG1	-8.71	1.23	1.52
4	E	160	GLU	C-N	-8.71	1.23	1.33
1	A	499	ALA	C-O	-8.71	1.13	1.24
1	A	508	PRO	CG-CD	8.71	1.80	1.50
1	A	219	PHE	CA-C	-8.70	1.40	1.52
1	A	619	LYS	C-O	-8.71	1.14	1.24
2	B	228	LYS	CG-CD	8.70	1.78	1.52
1	A	1079	MET	CA-C	8.70	1.67	1.52
1	A	545	GLN	C-O	-8.70	1.13	1.24
9	K	44	ASN	C-O	-8.70	1.13	1.24
1	A	1193	LEU	C-N	-8.69	1.22	1.33
1	A	293	GLU	CD-OE2	8.69	1.41	1.25
2	B	698	GLU	N-CA	-8.69	1.34	1.46
7	I	86	PHE	CA-CB	-8.69	1.38	1.53
1	A	505	CYS	C-N	-8.69	1.22	1.33
3	C	85	ASP	CB-CG	8.69	1.73	1.52
1	A	1016	THR	N-CA	-8.69	1.35	1.46
2	B	618	ASP	CA-C	8.69	1.63	1.52
5	F	91	ALA	CA-CB	-8.69	1.38	1.53
1	A	1206	ASP	C-N	8.69	1.44	1.33
1	A	1350	LYS	CG-CD	8.69	1.78	1.52
2	B	1102	LYS	CB-CG	8.69	1.78	1.52
3	C	20	PHE	C-O	-8.69	1.14	1.24
2	B	970	THR	C-O	-8.68	1.13	1.23
1	A	1146	VAL	CA-CB	-8.68	1.44	1.54
3	C	66	ARG	CA-C	-8.68	1.41	1.52
1	A	904	THR	C-O	8.68	1.35	1.24
3	C	183	TRP	CA-CB	8.68	1.66	1.53
1	A	451	HIS	CA-CB	-8.68	1.39	1.53
1	A	227	VAL	C-O	8.68	1.32	1.24
1	A	669	THR	CA-CB	8.68	1.67	1.53
2	B	697	GLU	CD-OE2	8.68	1.41	1.25
4	E	173	SER	CA-C	8.68	1.64	1.52
4	E	182	ASP	CA-C	-8.67	1.43	1.53
9	K	55	LYS	C-O	8.67	1.35	1.24
2	B	1178	ASN	CB-CG	-8.67	1.30	1.52
1	A	50	ILE	C-O	-8.67	1.14	1.24
7	I	65	ASP	C-O	8.67	1.35	1.24
3	C	34	ARG	CZ-NH1	-8.67	1.20	1.32
1	A	940	ARG	CA-CB	-8.66	1.39	1.53
1	A	925	LEU	C-O	-8.66	1.14	1.24
2	B	935	ARG	NE-CZ	8.66	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1139	ILE	CA-CB	-8.66	1.42	1.54
3	C	104	PHE	CD2-CE2	8.66	1.64	1.38
1	A	288	ALA	CA-CB	8.66	1.67	1.53
1	A	947	PHE	CG-CD1	-8.66	1.20	1.38
1	A	1235	LYS	CD-CE	8.66	1.78	1.52
2	B	488	TYR	CG-CD2	-8.66	1.21	1.39
7	I	70	ARG	CA-CB	-8.66	1.33	1.53
1	A	1051	ALA	CA-CB	8.66	1.67	1.53
1	A	1376	THR	CA-CB	-8.66	1.40	1.54
2	B	704	ALA	C-O	-8.66	1.13	1.23
2	B	798	TYR	CG-CD1	-8.66	1.21	1.39
1	A	33	ALA	CA-CB	8.65	1.68	1.53
1	A	905	ASP	CA-C	8.65	1.64	1.52
1	A	906	HIS	C-O	-8.65	1.12	1.24
4	E	183	PRO	N-CA	-8.65	1.36	1.47
7	I	4	PHE	CE2-CZ	8.65	1.64	1.38
1	A	536	LEU	C-N	8.65	1.45	1.33
1	A	781	ASP	CG-OD1	8.65	1.41	1.25
1	A	1196	GLU	C-O	-8.65	1.13	1.24
1	A	1285	MET	CG-SD	8.65	2.02	1.80
4	E	41	ASP	CG-OD1	8.65	1.41	1.25
4	E	91	LYS	CB-CG	8.65	1.78	1.52
6	H	104	PHE	CE1-CZ	8.65	1.64	1.38
7	I	20	LYS	CE-NZ	8.65	1.75	1.49
1	A	1148	ILE	C-O	-8.65	1.14	1.24
2	B	399	ASP	CA-C	8.65	1.65	1.52
1	A	826	ASP	C-O	-8.64	1.13	1.24
1	A	1410	PHE	C-O	-8.64	1.14	1.24
8	J	1	MET	SD-CE	8.64	2.01	1.79
1	A	261	ASP	CA-C	8.64	1.71	1.52
1	A	425	GLN	CD-NE2	8.64	1.51	1.33
2	B	555	ILE	CA-CB	-8.64	1.44	1.54
4	E	20	LYS	CA-C	8.64	1.64	1.52
4	E	161	LYS	CG-CD	-8.64	1.26	1.52
7	I	94	ASP	CA-CB	8.64	1.67	1.53
2	B	1019	SER	CB-OG	-8.64	1.24	1.42
6	H	80	ARG	CD-NE	8.64	1.58	1.46
2	B	381	MET	CA-CB	-8.64	1.39	1.53
2	B	835	GLN	N-CA	8.63	1.56	1.45
2	B	761	HIS	C-O	-8.63	1.12	1.24
5	F	117	PRO	C-O	-8.63	1.13	1.24
8	J	31	ASP	C-N	8.63	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	486	TYR	CZ-OH	8.63	1.56	1.38
2	B	845	SER	CA-C	-8.63	1.41	1.52
1	A	720	ARG	CZ-NH1	-8.63	1.20	1.32
4	E	137	GLU	N-CA	-8.62	1.35	1.46
7	I	49	ILE	CB-CG2	8.62	1.81	1.52
1	A	1230	GLU	N-CA	8.62	1.57	1.45
1	A	750	GLY	C-O	-8.62	1.12	1.24
2	B	1205	GLN	N-CA	8.62	1.57	1.46
1	A	277	GLU	CA-C	8.62	1.64	1.52
2	B	220	GLY	C-O	-8.61	1.13	1.23
2	B	500	THR	C-N	-8.62	1.23	1.33
8	J	26	GLN	CG-CD	8.62	1.73	1.52
1	A	200	ARG	N-CA	-8.61	1.35	1.46
1	A	807	GLY	C-N	-8.61	1.21	1.33
2	B	946	ASN	C-O	-8.61	1.13	1.23
2	B	479	VAL	CA-CB	-8.61	1.42	1.54
1	A	482	PHE	C-O	-8.61	1.11	1.23
2	B	291	ILE	CA-C	-8.61	1.43	1.52
4	E	58	MET	CB-CG	-8.61	1.26	1.52
2	B	112	LEU	C-O	-8.61	1.14	1.24
1	A	1211	GLN	N-CA	8.60	1.56	1.46
2	B	712	PRO	CG-CD	8.60	1.80	1.50
2	B	875	GLU	CA-C	-8.60	1.41	1.52
3	C	215	GLU	CG-CD	8.60	1.73	1.52
2	B	486	TYR	C-O	-8.60	1.14	1.24
1	A	447	GLN	CD-OE1	8.60	1.39	1.23
2	B	48	LEU	CA-CB	-8.60	1.40	1.53
6	H	129	TYR	CG-CD1	8.60	1.57	1.39
1	A	976	THR	N-CA	8.60	1.56	1.46
4	E	1	MET	CG-SD	8.60	2.02	1.80
1	A	177	ASP	CG-OD2	8.59	1.41	1.25
2	B	227	LYS	CG-CD	8.59	1.78	1.52
1	A	838	GLN	CD-NE2	8.59	1.51	1.33
6	H	85	GLY	C-O	8.59	1.35	1.23
1	A	524	VAL	C-O	-8.59	1.13	1.23
7	I	8	ARG	CZ-NH2	8.59	1.44	1.33
1	A	350	ARG	CA-C	-8.58	1.42	1.52
1	A	620	LYS	CE-NZ	8.58	1.75	1.49
1	A	806	ARG	C-O	8.58	1.35	1.24
2	B	171	PRO	C-O	-8.58	1.11	1.23
4	E	200	ARG	CB-CG	-8.58	1.26	1.52
2	B	128	LEU	C-O	-8.58	1.13	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	577	ALA	C-O	-8.58	1.13	1.23
2	B	1043	ASP	CA-CB	8.58	1.64	1.53
9	K	113	THR	CB-CG2	8.58	1.80	1.52
1	A	150	THR	CA-CB	8.58	1.66	1.53
2	B	529	GLU	N-CA	8.58	1.56	1.45
1	A	373	THR	N-CA	-8.57	1.35	1.46
1	A	1350	LYS	CE-NZ	8.57	1.75	1.49
7	I	36	GLU	C-N	-8.57	1.21	1.33
1	A	494	SER	C-O	8.57	1.34	1.23
2	B	373	ARG	CZ-NH1	8.57	1.44	1.32
2	B	583	ASN	CG-OD1	-8.57	1.07	1.23
2	B	1075	GLY	N-CA	-8.57	1.33	1.45
2	B	643	ASP	CB-CG	8.57	1.73	1.52
3	C	50	GLU	CD-OE1	8.57	1.41	1.25
1	A	213	HIS	C-O	8.57	1.36	1.24
1	A	1239	ARG	N-CA	-8.57	1.35	1.46
2	B	24	PRO	CA-CB	-8.56	1.43	1.53
6	H	104	PHE	CD2-CE2	8.56	1.64	1.38
2	B	880	THR	CA-C	8.56	1.67	1.53
5	F	114	GLU	CD-OE1	8.56	1.41	1.25
1	A	196	GLU	CD-OE1	8.56	1.41	1.25
1	A	557	ASP	N-CA	8.56	1.57	1.46
2	B	764	SER	C-O	-8.56	1.16	1.24
1	A	1040	GLN	CD-NE2	8.56	1.51	1.33
2	B	666	TYR	CE1-CZ	8.56	1.58	1.38
1	A	264	PHE	CG-CD2	8.56	1.56	1.38
2	B	803	LEU	N-CA	-8.56	1.35	1.46
2	B	121	ASN	C-O	8.56	1.34	1.23
1	A	437	MET	N-CA	8.55	1.56	1.46
8	J	29	GLU	CA-CB	8.55	1.65	1.53
1	A	775	ILE	C-N	-8.55	1.21	1.33
1	A	840	ARG	N-CA	-8.55	1.35	1.46
1	A	929	LEU	CG-CD2	-8.55	1.24	1.52
8	J	53	HIS	CG-CD2	-8.55	1.26	1.35
2	B	1039	GLY	CA-C	-8.55	1.39	1.51
2	B	351	TYR	C-O	8.55	1.33	1.24
2	B	485	ARG	CZ-NH1	-8.55	1.20	1.32
6	H	79	TRP	CA-CB	-8.55	1.39	1.54
4	E	63	ASN	CG-OD1	8.54	1.39	1.23
1	A	1374	VAL	CA-CB	-8.54	1.42	1.54
3	C	185	LYS	CA-C	-8.54	1.41	1.52
6	H	115	TYR	N-CA	8.54	1.57	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	312	GLU	CD-OE1	8.54	1.41	1.25
2	B	1148	LYS	N-CA	-8.54	1.35	1.46
4	E	70	SER	CA-C	8.54	1.64	1.52
7	I	100	PHE	C-O	-8.54	1.14	1.24
3	C	160	LYS	CG-CD	8.54	1.78	1.52
1	A	22	PHE	N-CA	-8.54	1.35	1.46
3	C	248	ILE	CA-CB	-8.54	1.45	1.54
10	L	50	ASP	CB-CG	8.54	1.73	1.52
1	A	862	ASN	N-CA	-8.53	1.34	1.45
2	B	109	THR	CA-C	8.53	1.64	1.52
4	E	213	ILE	CA-CB	-8.53	1.44	1.54
6	H	111	LEU	CG-CD1	8.53	1.80	1.52
9	K	54	ARG	CG-CD	8.53	1.78	1.52
1	A	578	LEU	CG-CD1	-8.53	1.24	1.52
1	A	1109	LYS	CG-CD	8.53	1.78	1.52
2	B	197	PHE	N-CA	-8.53	1.34	1.46
4	E	45	LYS	CD-CE	8.53	1.78	1.52
4	E	118	PRO	C-O	8.53	1.35	1.24
1	A	853	ASP	CA-CB	-8.52	1.40	1.53
1	A	1309	ASP	CG-OD1	8.52	1.41	1.25
1	A	1413	GLY	N-CA	-8.52	1.35	1.45
2	B	1096	ARG	CA-CB	8.52	1.66	1.53
1	A	123	ARG	CB-CG	8.52	1.78	1.52
1	A	11	LEU	CA-C	-8.52	1.42	1.52
5	F	118	LEU	CG-CD1	-8.52	1.24	1.52
2	B	327	ARG	CA-C	-8.52	1.41	1.52
4	E	82	PHE	CA-C	-8.52	1.42	1.52
4	E	188	LEU	CG-CD2	-8.52	1.24	1.52
9	K	26	LYS	CE-NZ	8.52	1.74	1.49
9	K	73	LEU	N-CA	8.52	1.56	1.46
2	B	667	GLN	N-CA	8.51	1.57	1.46
3	C	94	LYS	CG-CD	8.51	1.77	1.52
2	B	331	LEU	C-N	-8.51	1.23	1.33
1	A	1132	LYS	CA-C	8.51	1.64	1.52
1	A	1202	MET	CG-SD	-8.51	1.59	1.80
2	B	415	GLN	CD-OE1	8.51	1.39	1.23
2	B	617	ARG	CG-CD	8.51	1.77	1.52
2	B	622	LYS	C-O	-8.51	1.12	1.23
5	F	137	TYR	CA-CB	-8.51	1.40	1.53
1	A	36	ARG	C-O	-8.50	1.13	1.24
1	A	80	HIS	CG-CD2	8.50	1.45	1.35
1	A	1379	GLY	C-N	-8.50	1.25	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	617	ARG	CZ-NH2	-8.50	1.22	1.33
7	I	93	LYS	C-N	8.50	1.45	1.33
5	F	104	ASN	C-O	-8.50	1.12	1.23
1	A	684	ALA	N-CA	-8.50	1.35	1.46
1	A	1161	THR	CA-CB	8.50	1.67	1.53
3	C	159	ALA	CA-CB	8.50	1.67	1.53
4	E	173	SER	C-O	-8.50	1.13	1.24
1	A	291	GLU	CD-OE1	8.49	1.41	1.25
2	B	433	GLN	N-CA	8.49	1.56	1.46
3	C	94	LYS	CB-CG	8.49	1.77	1.52
5	F	79	ARG	CZ-NH2	-8.49	1.22	1.33
1	A	1147	THR	N-CA	8.49	1.56	1.46
6	H	114	VAL	C-N	8.49	1.45	1.33
1	A	1157	ASP	CB-CG	8.49	1.73	1.52
2	B	119	LEU	CA-CB	-8.49	1.39	1.53
2	B	264	SER	C-O	8.49	1.32	1.23
2	B	1132	GLU	CA-CB	8.49	1.66	1.53
6	H	104	PHE	CD1-CE1	8.49	1.64	1.38
2	B	117	ALA	C-O	-8.49	1.13	1.24
2	B	964	VAL	CA-CB	-8.49	1.42	1.55
9	K	20	LYS	C-O	8.49	1.33	1.23
7	I	99	LEU	CG-CD2	-8.48	1.24	1.52
2	B	244	LEU	CA-C	8.48	1.62	1.52
6	H	116	TYR	CG-CD1	8.48	1.57	1.39
1	A	478	TYR	CD1-CE1	-8.48	1.13	1.38
1	A	516	SER	CB-OG	8.48	1.59	1.42
2	B	1135	ARG	N-CA	-8.48	1.36	1.46
9	K	32	VAL	CA-CB	-8.48	1.42	1.54
2	B	807	ARG	CZ-NH2	-8.47	1.22	1.33
2	B	1144	ALA	C-O	8.47	1.34	1.24
9	K	36	GLU	CA-CB	-8.47	1.40	1.53
1	A	619	LYS	N-CA	8.47	1.56	1.46
1	A	761	MET	N-CA	-8.47	1.35	1.46
2	B	1094	ARG	CA-CB	-8.47	1.41	1.53
6	H	36	CYS	N-CA	8.47	1.56	1.46
9	K	73	LEU	CB-CG	-8.47	1.36	1.53
1	A	816	HIS	CB-CG	-8.47	1.38	1.50
1	A	1323	ASP	C-N	-8.47	1.24	1.34
2	B	399	ASP	CB-CG	8.47	1.73	1.52
1	A	185	TRP	CA-C	-8.47	1.41	1.52
1	A	711	ARG	CA-CB	-8.47	1.39	1.53
2	B	518	HIS	CA-CB	-8.46	1.38	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	681	TRP	C-N	-8.47	1.21	1.33
2	B	707	PRO	CA-C	8.46	1.66	1.52
2	B	1022	THR	CB-OG1	-8.46	1.30	1.43
6	H	130	ARG	CA-C	8.46	1.65	1.52
2	B	453	ILE	CA-CB	8.46	1.66	1.54
1	A	191	THR	CA-C	8.46	1.64	1.52
7	I	59	VAL	C-O	-8.46	1.13	1.23
1	A	1008	GLN	CD-OE1	8.46	1.39	1.23
1	A	1095	THR	CA-C	-8.46	1.42	1.52
2	B	1082	MET	CA-C	-8.46	1.41	1.52
5	F	146	TRP	CB-CG	-8.46	1.24	1.50
2	B	626	ILE	C-O	-8.46	1.14	1.24
2	B	1002	THR	CB-OG1	-8.46	1.30	1.43
3	C	49	VAL	CA-CB	-8.46	1.42	1.54
2	B	344	LYS	C-O	8.45	1.34	1.23
2	B	632	ARG	CG-CD	8.45	1.77	1.52
3	C	245	VAL	CA-C	8.45	1.63	1.52
4	E	187	TYR	CZ-OH	8.45	1.55	1.38
5	F	87	LYS	CE-NZ	8.45	1.74	1.49
9	K	112	GLN	CD-OE1	-8.45	1.07	1.23
1	A	650	GLN	CD-OE1	-8.45	1.07	1.23
7	I	79	HIS	C-O	8.45	1.34	1.24
1	A	99	ILE	CA-C	8.45	1.63	1.52
1	A	711	ARG	CZ-NH2	-8.44	1.22	1.33
1	A	383	TYR	CD1-CE1	8.44	1.64	1.38
1	A	498	ARG	CB-CG	-8.44	1.27	1.52
2	B	581	PHE	CG-CD1	-8.44	1.21	1.38
2	B	996	ARG	CG-CD	8.44	1.77	1.52
3	C	21	ILE	CA-CB	-8.44	1.43	1.54
2	B	1176	ASN	C-O	8.43	1.34	1.24
6	H	88	SER	N-CA	8.43	1.57	1.46
2	B	136	THR	C-N	8.43	1.45	1.33
2	B	546	SER	CB-OG	8.43	1.59	1.42
1	A	225	ASN	CA-C	8.43	1.62	1.52
3	C	219	PHE	CD1-CE1	8.43	1.64	1.38
1	A	764	CYS	CA-CB	-8.43	1.40	1.53
6	H	109	LYS	C-O	8.43	1.34	1.24
7	I	24	ARG	N-CA	8.43	1.56	1.45
1	A	163	SER	CA-CB	8.42	1.66	1.53
1	A	1383	SER	CA-CB	-8.42	1.39	1.53
1	A	562	THR	CA-CB	8.42	1.67	1.52
2	B	406	LEU	CB-CG	-8.42	1.36	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	586	ILE	C-O	-8.41	1.15	1.24
1	A	1363	VAL	CB-CG1	8.41	1.80	1.52
9	K	91	CYS	N-CA	-8.41	1.36	1.46
1	A	998	LEU	N-CA	-8.41	1.35	1.46
3	C	25	VAL	C-O	-8.41	1.14	1.23
3	C	179	GLU	CD-OE2	-8.41	1.09	1.25
2	B	204	ILE	N-CA	8.41	1.57	1.46
2	B	420	LEU	CG-CD1	8.41	1.80	1.52
6	H	131	ASN	N-CA	8.41	1.56	1.46
2	B	265	SER	CA-CB	8.40	1.65	1.53
2	B	497	ARG	N-CA	-8.40	1.35	1.45
3	C	43	THR	N-CA	-8.40	1.36	1.46
3	C	252	GLN	CG-CD	8.40	1.73	1.52
6	H	25	ARG	NE-CZ	-8.40	1.23	1.33
1	A	247	ARG	C-N	8.40	1.48	1.34
9	K	12	LEU	CG-CD1	8.40	1.80	1.52
1	A	286	HIS	CB-CG	8.40	1.61	1.50
1	A	807	GLY	N-CA	8.40	1.53	1.45
1	A	1024	SER	N-CA	-8.40	1.35	1.46
2	B	866	TYR	CE2-CZ	8.40	1.58	1.38
2	B	591	ARG	CA-C	-8.40	1.41	1.52
2	B	847	ASP	C-N	-8.40	1.21	1.33
3	C	207	CYS	CA-C	8.40	1.63	1.53
2	B	52	ASN	C-N	-8.39	1.22	1.34
1	A	1098	VAL	CB-CG1	-8.39	1.24	1.52
4	E	57	MET	CB-CG	8.39	1.77	1.52
4	E	139	ALA	CA-C	-8.39	1.41	1.52
2	B	1044	ALA	N-CA	8.39	1.55	1.46
2	B	1081	LEU	CA-CB	8.39	1.65	1.53
3	C	85	ASP	CA-C	-8.39	1.41	1.52
3	C	191	TYR	CA-CB	8.39	1.65	1.53
1	A	228	PHE	CG-CD1	-8.39	1.21	1.38
1	A	957	PRO	CA-CB	-8.38	1.40	1.53
2	B	106	ASP	CA-CB	8.38	1.67	1.53
2	B	536	VAL	CB-CG2	-8.38	1.24	1.52
2	B	1169	MET	CA-CB	-8.38	1.42	1.52
3	C	205	LYS	N-CA	8.38	1.56	1.46
1	A	839	ARG	CZ-NH1	8.38	1.44	1.32
1	A	1231	ASP	CA-CB	-8.38	1.39	1.53
2	B	175	ARG	NE-CZ	8.38	1.42	1.33
5	F	111	LEU	C-O	8.38	1.34	1.24
1	A	288	ALA	N-CA	8.38	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	694	ASP	C-O	8.38	1.34	1.23
2	B	902	GLY	N-CA	-8.38	1.33	1.45
4	E	146	HIS	CA-C	-8.38	1.40	1.52
4	E	205	SER	N-CA	8.38	1.57	1.45
1	A	175	ARG	CD-NE	8.38	1.57	1.46
2	B	865	LYS	CA-C	8.38	1.64	1.52
6	H	63	LEU	C-O	8.37	1.40	1.23
2	B	595	ARG	N-CA	8.37	1.56	1.46
3	C	131	HIS	C-O	-8.37	1.13	1.24
1	A	37	PHE	CD1-CE1	8.37	1.63	1.38
1	A	445	ASN	C-O	8.37	1.33	1.23
1	A	1200	ALA	C-O	8.37	1.34	1.24
2	B	852	ARG	N-CA	-8.37	1.34	1.45
9	K	7	PHE	CA-C	-8.37	1.41	1.52
1	A	1126	ALA	CA-C	8.37	1.64	1.52
2	B	734	HIS	CA-C	8.37	1.66	1.52
2	B	1189	ILE	N-CA	8.37	1.56	1.46
1	A	750	GLY	CA-C	-8.37	1.39	1.51
2	B	722	ASP	CA-CB	8.37	1.70	1.53
6	H	94	ASP	CB-CG	-8.37	1.31	1.52
1	A	42	ASP	C-O	8.36	1.34	1.24
1	A	1450	LEU	N-CA	8.36	1.62	1.46
1	A	109	HIS	CA-CB	8.36	1.67	1.53
1	A	655	PHE	C-N	-8.36	1.22	1.34
1	A	946	VAL	C-O	-8.36	1.13	1.24
9	K	62	LYS	CA-C	-8.36	1.41	1.52
1	A	704	ALA	N-CA	8.36	1.56	1.45
1	A	755	PHE	CD2-CE2	8.36	1.63	1.38
1	A	1130	GLN	C-O	-8.36	1.12	1.24
2	B	608	ASP	C-O	-8.36	1.13	1.24
5	F	82	THR	C-O	-8.36	1.13	1.23
2	B	892	LYS	CA-C	-8.36	1.41	1.52
1	A	567	LYS	CE-NZ	8.35	1.74	1.49
1	A	1223	ASP	CG-OD1	8.35	1.41	1.25
1	A	1329	THR	C-O	8.35	1.34	1.23
1	A	162	VAL	C-O	-8.35	1.14	1.23
1	A	1417	GLU	CD-OE2	8.35	1.41	1.25
2	B	1083	ALA	CA-C	8.35	1.63	1.52
4	E	174	GLN	CD-OE1	8.35	1.39	1.23
5	F	144	GLU	CA-C	-8.35	1.42	1.52
1	A	636	GLU	C-O	-8.35	1.13	1.24
2	B	1210	MET	CG-SD	-8.35	1.59	1.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	203	SER	CA-CB	8.34	1.67	1.53
2	B	622	LYS	CE-NZ	8.34	1.74	1.49
2	B	1203	LEU	C-O	8.34	1.33	1.24
1	A	660	ASN	C-O	8.34	1.35	1.23
1	A	553	VAL	C-N	-8.34	1.24	1.33
2	B	131	ASP	C-O	8.34	1.34	1.23
2	B	630	ALA	CA-CB	8.34	1.66	1.53
1	A	1212	VAL	CB-CG1	-8.34	1.25	1.52
2	B	558	LEU	C-O	8.34	1.33	1.24
1	A	1194	ARG	N-CA	-8.34	1.35	1.46
1	A	662	PHE	CG-CD2	-8.33	1.21	1.38
1	A	945	GLU	CA-CB	8.33	1.67	1.53
1	A	1107	VAL	CA-CB	8.33	1.65	1.54
1	A	1299	VAL	CA-CB	-8.33	1.43	1.55
2	B	69	LEU	C-O	8.33	1.34	1.24
1	A	367	PRO	CG-CD	-8.33	1.22	1.50
1	A	487	MET	C-O	-8.33	1.13	1.23
1	A	1303	GLU	CD-OE1	8.33	1.41	1.25
10	L	37	LYS	CA-CB	-8.33	1.39	1.53
3	C	83	SER	C-O	8.33	1.34	1.24
7	I	92	ARG	N-CA	8.33	1.56	1.45
1	A	461	LYS	CG-CD	-8.33	1.27	1.52
1	A	1205	LYS	N-CA	8.33	1.55	1.46
1	A	508	PRO	CA-CB	8.32	1.66	1.53
2	B	758	PHE	CE2-CZ	-8.32	1.13	1.38
1	A	790	ASP	CA-CB	-8.32	1.39	1.53
3	C	166	GLU	CB-CG	8.32	1.77	1.52
3	C	236	GLY	N-CA	-8.32	1.33	1.45
4	E	166	LYS	C-O	8.32	1.33	1.24
5	F	147	SER	CA-CB	8.32	1.66	1.53
6	H	46	LEU	C-O	8.32	1.36	1.24
1	A	469	ARG	CZ-NH1	-8.32	1.21	1.32
2	B	654	ARG	CB-CG	8.32	1.77	1.52
2	B	124	TYR	CD2-CE2	8.32	1.63	1.38
2	B	901	PRO	CG-CD	8.32	1.79	1.50
2	B	905	VAL	CA-CB	-8.32	1.42	1.54
8	J	19	GLU	C-O	8.32	1.33	1.24
1	A	12	ARG	CZ-NH1	8.32	1.44	1.32
1	A	379	VAL	CB-CG2	8.32	1.79	1.52
7	I	49	ILE	CA-CB	8.32	1.63	1.53
1	A	147	VAL	N-CA	-8.31	1.36	1.46
1	A	931	GLU	C-O	-8.31	1.13	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1006	ILE	CA-CB	-8.31	1.44	1.54
9	K	114	LEU	CB-CG	8.31	1.70	1.53
1	A	98	LYS	C-O	8.31	1.33	1.24
1	A	1446	ASP	CG-OD2	8.31	1.41	1.25
2	B	250	PHE	CB-CG	8.31	1.69	1.50
3	C	78	GLU	CG-CD	8.31	1.72	1.52
1	A	891	ALA	C-O	-8.31	1.14	1.24
2	B	411	PRO	N-CA	-8.31	1.36	1.47
1	A	1108	ALA	C-O	8.31	1.34	1.24
3	C	5	GLY	CA-C	8.31	1.63	1.51
9	K	46	ILE	C-O	-8.31	1.14	1.24
2	B	332	ASP	CB-CG	-8.31	1.31	1.52
1	A	364	VAL	C-O	-8.30	1.15	1.24
1	A	54	ASN	CA-C	8.30	1.63	1.52
1	A	220	THR	CA-C	-8.30	1.42	1.52
7	I	14	LEU	CG-CD1	-8.30	1.25	1.52
1	A	291	GLU	CA-CB	8.30	1.66	1.53
2	B	42	GLY	N-CA	8.30	1.57	1.45
7	I	101	PHE	C-O	-8.30	1.13	1.24
1	A	234	MET	SD-CE	-8.29	1.58	1.79
1	A	411	ASP	C-O	-8.29	1.14	1.23
2	B	370	PHE	CE1-CZ	8.30	1.63	1.38
2	B	799	PRO	CA-CB	-8.29	1.43	1.53
4	E	122	LYS	C-O	8.30	1.34	1.24
7	I	51	ASN	C-O	-8.29	1.12	1.24
1	A	123	ARG	CA-C	-8.29	1.41	1.52
2	B	250	PHE	N-CA	8.29	1.56	1.46
2	B	123	THR	C-N	8.29	1.45	1.33
1	A	85	ASP	C-O	8.28	1.34	1.23
1	A	1445	ILE	C-O	8.28	1.35	1.24
2	B	857	ARG	CA-CB	-8.29	1.39	1.53
1	A	1284	MET	CA-C	-8.28	1.42	1.52
2	B	328	GLU	CD-OE2	8.28	1.41	1.25
2	B	887	HIS	CB-CG	8.28	1.61	1.50
2	B	1194	ILE	CA-C	-8.28	1.42	1.52
1	A	69	THR	C-N	8.28	1.46	1.33
1	A	923	LEU	CA-CB	8.28	1.66	1.53
1	A	934	LYS	CG-CD	8.28	1.77	1.52
2	B	1179	GLN	CA-CB	8.28	1.66	1.53
1	A	1081	LEU	N-CA	8.28	1.61	1.46
1	A	209	ASN	CA-CB	8.28	1.66	1.53
1	A	803	SER	CA-CB	8.27	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1025	HIS	CA-CB	8.27	1.66	1.53
2	B	813	LYS	CA-C	-8.27	1.41	1.53
4	E	128	PRO	C-O	8.27	1.33	1.24
3	C	21	ILE	CA-C	-8.27	1.42	1.52
1	A	74	MET	CA-CB	8.27	1.67	1.53
1	A	1239	ARG	NE-CZ	-8.27	1.24	1.33
1	A	1417	GLU	C-O	8.27	1.33	1.23
4	E	167	ARG	N-CA	-8.27	1.34	1.46
5	F	136	ARG	C-O	-8.27	1.13	1.24
5	F	88	TYR	N-CA	-8.27	1.35	1.46
8	J	29	GLU	C-O	8.27	1.39	1.24
1	A	1440	ALA	C-O	8.26	1.34	1.24
2	B	379	GLY	C-N	-8.26	1.23	1.33
4	E	10	SER	C-O	-8.26	1.14	1.24
8	J	46	CYS	C-O	-8.26	1.14	1.24
1	A	670	ILE	CB-CG2	8.26	1.79	1.52
1	A	985	ASP	C-O	-8.26	1.14	1.24
10	L	38	LEU	CG-CD2	8.26	1.79	1.52
1	A	1207	LEU	C-O	-8.26	1.14	1.24
1	A	423	ASP	CG-OD2	8.25	1.41	1.25
1	A	1062	GLU	CA-C	8.25	1.63	1.52
2	B	265	SER	C-N	8.25	1.45	1.33
1	A	836	TYR	CA-C	8.25	1.63	1.52
2	B	565	PRO	CA-C	-8.25	1.42	1.52
1	A	151	ASP	CA-C	-8.25	1.41	1.52
1	A	1033	GLN	N-CA	-8.25	1.35	1.46
2	B	419	THR	CA-CB	-8.25	1.39	1.53
4	E	66	GLU	N-CA	8.25	1.56	1.46
2	B	108	VAL	N-CA	8.25	1.56	1.46
2	B	267	ARG	CZ-NH1	8.25	1.44	1.32
2	B	1074	ASN	C-N	-8.25	1.20	1.33
3	C	52	GLU	N-CA	-8.24	1.35	1.46
1	A	281	HIS	C-O	8.24	1.33	1.24
1	A	899	VAL	CB-CG1	-8.24	1.25	1.52
1	A	1224	LEU	CA-C	-8.24	1.42	1.52
1	A	724	GLU	CG-CD	8.24	1.72	1.52
4	E	110	PHE	N-CA	-8.24	1.36	1.46
1	A	1328	TYR	C-O	-8.24	1.13	1.23
1	A	1419	ASP	CA-C	-8.24	1.42	1.52
2	B	1224	PHE	CG-CD1	8.24	1.56	1.38
1	A	942	PHE	CG-CD2	-8.24	1.21	1.38
1	A	1040	GLN	CD-OE1	8.24	1.39	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1210	MET	CA-CB	8.24	1.64	1.53
1	A	811	GLN	CB-CG	-8.23	1.27	1.52
1	A	716	ASP	CG-OD2	8.23	1.41	1.25
2	B	580	VAL	CA-C	-8.23	1.42	1.52
3	C	189	THR	C-O	8.23	1.33	1.23
4	E	75	MET	CA-CB	8.23	1.64	1.53
1	A	1210	GLY	C-N	8.23	1.44	1.33
7	I	89	GLN	CG-CD	-8.23	1.31	1.52
1	A	657	LEU	CB-CG	-8.23	1.36	1.53
1	A	787	PHE	N-CA	-8.23	1.35	1.45
2	B	635	ARG	CZ-NH2	-8.23	1.22	1.33
2	B	1026	LEU	C-O	-8.23	1.14	1.24
4	E	74	ASP	CB-CG	-8.23	1.31	1.52
1	A	1035	TYR	CA-C	-8.23	1.42	1.52
5	F	149	GLU	N-CA	8.23	1.56	1.46
1	A	238	CYS	CA-CB	8.23	1.66	1.53
2	B	372	SER	C-O	8.23	1.34	1.24
3	C	23	SER	CB-OG	8.23	1.58	1.42
9	K	47	ARG	CZ-NH1	8.23	1.44	1.32
8	J	31	ASP	CG-OD1	8.22	1.41	1.25
1	A	899	VAL	C-O	-8.22	1.14	1.24
9	K	105	PHE	C-N	8.22	1.45	1.33
1	A	658	LEU	C-O	8.22	1.34	1.24
1	A	1103	GLU	C-O	8.22	1.34	1.24
2	B	513	GLN	C-N	8.22	1.45	1.33
5	F	94	LEU	CA-CB	-8.22	1.39	1.53
9	K	77	THR	CA-C	-8.22	1.42	1.52
1	A	458	HIS	C-N	8.22	1.45	1.33
1	A	1416	ALA	C-O	-8.22	1.11	1.23
4	E	56	LYS	CA-CB	8.22	1.67	1.53
1	A	435	HIS	CB-CG	-8.22	1.38	1.50
1	A	1365	TYR	CA-C	-8.21	1.41	1.52
3	C	34	ARG	CD-NE	-8.21	1.34	1.46
2	B	138	GLU	CA-CB	8.21	1.69	1.53
2	B	811	TYR	CG-CD1	-8.21	1.22	1.39
3	C	209	TYR	N-CA	-8.21	1.35	1.46
1	A	268	ASP	CB-CG	8.21	1.72	1.52
1	A	918	GLU	N-CA	-8.21	1.35	1.46
1	A	1449	SER	C-N	8.21	1.44	1.33
2	B	387	LEU	N-CA	-8.21	1.35	1.46
10	L	62	LYS	CA-C	8.21	1.63	1.52
2	B	657	HIS	C-N	-8.21	1.25	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	I	90	GLN	CG-CD	-8.21	1.31	1.52
1	A	731	ARG	CZ-NH1	8.21	1.44	1.32
1	A	70	CYS	N-CA	8.20	1.56	1.46
7	I	22	ASN	N-CA	-8.20	1.36	1.46
9	K	26	LYS	C-O	-8.20	1.13	1.24
2	B	520	GLY	C-O	-8.20	1.12	1.24
4	E	148	GLU	N-CA	8.20	1.56	1.46
9	K	55	LYS	CA-C	8.20	1.64	1.52
1	A	136	ALA	CA-CB	8.20	1.67	1.53
1	A	146	MET	CG-SD	8.20	2.01	1.80
1	A	1260	LEU	C-N	-8.20	1.21	1.33
1	A	1056	SER	CA-CB	-8.19	1.39	1.53
2	B	535	LEU	N-CA	8.20	1.56	1.46
2	B	729	ILE	C-O	-8.20	1.15	1.24
2	B	1207	LEU	N-CA	-8.20	1.36	1.46
7	I	78	CYS	C-O	-8.20	1.13	1.24
1	A	605	MET	C-O	8.19	1.33	1.23
5	F	90	ARG	NE-CZ	-8.19	1.24	1.33
1	A	1317	MET	C-O	8.19	1.34	1.24
3	C	191	TYR	N-CA	-8.19	1.35	1.46
5	F	106	PRO	C-O	-8.19	1.14	1.23
10	L	27	LEU	CG-CD2	8.19	1.79	1.52
1	A	406	ILE	CA-CB	-8.19	1.43	1.54
1	A	1102	LYS	CB-CG	8.19	1.77	1.52
2	B	1188	LYS	C-O	8.19	1.34	1.24
1	A	511	ILE	C-N	-8.18	1.22	1.33
2	B	198	ASP	CA-C	-8.18	1.42	1.52
2	B	781	PHE	CG-CD2	-8.18	1.21	1.38
2	B	815	ARG	NE-CZ	-8.18	1.24	1.33
2	B	267	ARG	CD-NE	8.18	1.57	1.46
1	A	284	ALA	CA-CB	8.18	1.66	1.53
2	B	21	GLU	CA-C	-8.18	1.41	1.52
2	B	951	GLN	CB-CG	8.18	1.76	1.52
2	B	1151	LEU	C-N	-8.18	1.22	1.33
3	C	170	TRP	CD2-CE3	-8.18	1.27	1.40
4	E	12	LEU	CG-CD1	8.18	1.79	1.52
2	B	355	ILE	CA-CB	-8.18	1.45	1.54
2	B	806	THR	CA-C	-8.18	1.42	1.52
2	B	1025	HIS	CA-C	8.18	1.63	1.52
2	B	723	VAL	CB-CG2	8.17	1.79	1.52
1	A	1038	THR	C-O	-8.17	1.13	1.23
1	A	1118	VAL	CA-C	-8.17	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1055	ILE	C-O	-8.17	1.13	1.24
1	A	1351	GLU	CA-C	-8.17	1.42	1.52
2	B	65	GLU	CD-OE2	8.17	1.40	1.25
2	B	325	GLN	CG-CD	8.17	1.72	1.52
7	I	8	ARG	C-O	-8.17	1.14	1.24
1	A	74	MET	SD-CE	8.16	2.00	1.79
1	A	858	ASN	CB-CG	-8.16	1.31	1.52
2	B	838	SER	CA-C	-8.16	1.42	1.52
3	C	174	ALA	C-O	-8.16	1.13	1.24
9	K	81	TYR	CA-C	-8.16	1.42	1.52
2	B	665	GLU	CD-OE2	8.16	1.40	1.25
3	C	209	TYR	CE1-CZ	8.16	1.57	1.38
5	F	123	LYS	N-CA	8.16	1.56	1.46
1	A	205	GLU	CD-OE2	8.16	1.40	1.25
1	A	543	LEU	CG-CD1	-8.16	1.25	1.52
2	B	1035	ALA	N-CA	-8.16	1.36	1.46
6	H	6	PHE	CA-CB	-8.16	1.40	1.53
1	A	1238	ILE	N-CA	-8.16	1.36	1.46
3	C	31	ASN	C-O	8.16	1.33	1.24
1	A	356	ASP	CA-CB	8.15	1.66	1.53
1	A	1385	THR	CB-CG2	8.15	1.79	1.52
1	A	1014	ALA	C-N	-8.15	1.25	1.34
1	A	958	VAL	C-N	8.15	1.45	1.33
2	B	44	VAL	CA-CB	-8.15	1.43	1.54
2	B	188	ASP	N-CA	-8.15	1.35	1.46
2	B	684	LEU	CG-CD1	-8.15	1.25	1.52
2	B	1079	LYS	CA-C	-8.15	1.42	1.52
1	A	934	LYS	C-O	-8.15	1.14	1.24
2	B	389	ALA	C-O	-8.15	1.13	1.24
2	B	561	TRP	CA-C	-8.15	1.42	1.52
5	F	102	SER	C-O	8.15	1.34	1.24
10	L	68	GLU	CA-C	8.14	1.63	1.52
2	B	21	GLU	CD-OE2	8.14	1.40	1.25
1	A	1191	TRP	CD2-CE3	-8.14	1.27	1.40
1	A	868	TYR	N-CA	-8.14	1.35	1.46
1	A	872	GLY	C-O	-8.14	1.13	1.23
2	B	242	SER	CB-OG	8.14	1.58	1.42
2	B	706	GLN	CB-CG	8.14	1.76	1.52
2	B	875	GLU	C-O	-8.14	1.13	1.23
10	L	46	VAL	CA-C	-8.14	1.42	1.52
1	A	865	GLN	CA-CB	-8.13	1.39	1.53
1	A	1367	HIS	CA-C	-8.13	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	569	TYR	CA-CB	8.13	1.66	1.53
1	A	107	CYS	N-CA	8.13	1.56	1.46
1	A	866	PHE	CG-CD1	-8.13	1.21	1.38
1	A	860	LEU	N-CA	8.13	1.56	1.46
2	B	367	LEU	CG-CD1	8.13	1.79	1.52
3	C	204	SER	N-CA	-8.13	1.35	1.45
3	C	148	ARG	N-CA	-8.12	1.35	1.45
4	E	169	ARG	CZ-NH1	8.12	1.44	1.32
2	B	667	GLN	CD-NE2	8.12	1.50	1.33
6	H	141	TYR	CA-CB	-8.12	1.39	1.53
2	B	609	ILE	CA-CB	-8.12	1.44	1.54
5	F	135	ARG	CA-CB	8.12	1.63	1.53
9	K	100	ALA	CA-C	-8.12	1.41	1.52
1	A	293	GLU	CD-OE1	8.11	1.40	1.25
1	A	1188	GLN	CD-OE1	8.11	1.39	1.23
1	A	490	HIS	C-O	-8.11	1.14	1.24
4	E	74	ASP	CG-OD2	-8.11	1.09	1.25
3	C	64	ALA	C-O	-8.11	1.14	1.24
1	A	431	LYS	CG-CD	8.11	1.76	1.52
2	B	358	LYS	C-O	-8.11	1.13	1.24
3	C	199	LYS	CG-CD	8.11	1.76	1.52
1	A	1044	TRP	CG-CD2	-8.11	1.29	1.43
2	B	1082	MET	CG-SD	8.11	2.01	1.80
1	A	561	PRO	CA-CB	8.10	1.65	1.53
1	A	628	GLY	N-CA	8.10	1.52	1.44
2	B	403	LYS	N-CA	-8.10	1.36	1.46
7	I	107	SER	C-O	-8.10	1.12	1.23
1	A	58	LEU	N-CA	8.10	1.56	1.46
1	A	572	TRP	CE2-CZ2	-8.10	1.22	1.39
9	K	38	GLU	CA-CB	-8.10	1.38	1.54
5	F	80	ALA	CA-CB	8.10	1.66	1.54
8	J	28	ASP	CG-OD1	8.10	1.40	1.25
2	B	1201	LYS	CB-CG	-8.10	1.28	1.52
1	A	261	ASP	N-CA	8.10	1.61	1.46
1	A	219	PHE	C-O	-8.10	1.13	1.24
1	A	296	LEU	N-CA	8.10	1.55	1.46
3	C	11	ARG	CZ-NH2	-8.10	1.23	1.33
2	B	355	ILE	C-O	-8.09	1.15	1.24
9	K	28	PRO	CG-CD	-8.09	1.23	1.50
1	A	525	GLN	C-O	-8.09	1.13	1.24
2	B	323	VAL	C-N	-8.09	1.23	1.33
2	B	368	GLU	N-CA	8.09	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	509	ALA	CA-C	8.09	1.70	1.52
10	L	56	LEU	C-O	-8.09	1.14	1.24
2	B	795	ILE	CA-CB	-8.09	1.44	1.54
1	A	993	LEU	CA-C	-8.09	1.42	1.52
1	A	1326	ARG	C-O	-8.09	1.13	1.24
2	B	51	PHE	CA-CB	8.09	1.66	1.53
2	B	485	ARG	N-CA	-8.09	1.34	1.46
2	B	556	THR	CA-C	8.09	1.63	1.52
2	B	684	LEU	N-CA	-8.09	1.36	1.46
2	B	751	VAL	C-N	-8.09	1.22	1.33
2	B	220	GLY	CA-C	-8.08	1.38	1.52
1	A	356	ASP	CG-OD1	8.08	1.40	1.25
1	A	483	ASP	CA-CB	-8.08	1.42	1.53
1	A	1349	TYR	CG-CD2	-8.08	1.22	1.39
2	B	804	GLY	C-O	-8.08	1.13	1.23
3	C	145	CYS	CA-C	-8.08	1.42	1.52
2	B	297	ILE	N-CA	-8.08	1.36	1.46
1	A	57	ARG	NE-CZ	8.08	1.42	1.33
1	A	1318	THR	CA-C	8.08	1.63	1.52
2	B	638	PHE	C-O	-8.08	1.13	1.23
3	C	149	LYS	C-O	8.08	1.34	1.24
1	A	741	ASN	CA-C	-8.07	1.42	1.52
2	B	617	ARG	NE-CZ	-8.07	1.24	1.33
1	A	234	MET	C-N	8.07	1.45	1.33
4	E	43	LYS	C-O	8.07	1.34	1.24
1	A	469	ARG	CB-CG	8.07	1.76	1.52
2	B	215	GLN	CA-CB	8.07	1.65	1.53
2	B	989	THR	CA-CB	-8.07	1.40	1.53
2	B	1016	ALA	CA-CB	8.07	1.68	1.53
1	A	521	MET	C-O	-8.07	1.14	1.23
1	A	989	GLY	C-N	-8.07	1.23	1.33
2	B	730	ARG	CA-C	8.06	1.62	1.52
1	A	787	PHE	CG-CD1	-8.06	1.22	1.38
2	B	870	ILE	N-CA	8.06	1.60	1.47
2	B	41	LYS	N-CA	-8.06	1.35	1.45
1	A	34	LYS	CB-CG	8.06	1.76	1.52
1	A	214	ILE	CA-CB	-8.06	1.44	1.54
1	A	460	VAL	CA-CB	-8.06	1.45	1.54
2	B	593	PRO	CA-CB	8.06	1.65	1.53
8	J	26	GLN	CD-OE1	8.06	1.38	1.23
1	A	647	GLY	N-CA	-8.06	1.35	1.45
6	H	21	ASN	CG-OD1	8.06	1.38	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	176	SER	C-O	-8.05	1.12	1.23
2	B	589	VAL	CA-CB	-8.05	1.43	1.55
5	F	108	PHE	CG-CD1	8.05	1.55	1.38
1	A	1264	GLU	CD-OE1	-8.05	1.10	1.25
2	B	118	ARG	NE-CZ	8.05	1.42	1.33
2	B	1087	PHE	C-O	-8.05	1.15	1.23
9	K	39	ASP	CG-OD2	8.05	1.40	1.25
6	H	19	ARG	CZ-NH1	8.05	1.44	1.32
1	A	176	LYS	CA-C	8.04	1.62	1.52
2	B	639	ILE	CA-C	8.04	1.62	1.52
2	B	772	ALA	N-CA	-8.04	1.36	1.46
2	B	806	THR	C-N	-8.05	1.22	1.33
4	E	154	ILE	N-CA	8.04	1.56	1.46
1	A	152	VAL	C-O	8.04	1.34	1.24
1	A	1102	LYS	C-O	8.04	1.33	1.24
2	B	1180	PHE	N-CA	-8.04	1.37	1.46
9	K	4	PRO	CA-CB	8.04	1.62	1.54
1	A	1283	VAL	C-O	8.04	1.32	1.24
7	I	21	GLU	CD-OE1	8.04	1.40	1.25
2	B	1072	MET	C-O	8.04	1.34	1.23
3	C	133	ILE	C-N	8.03	1.43	1.33
4	E	103	LYS	CE-NZ	8.04	1.73	1.49
2	B	976	ILE	CA-C	-8.03	1.43	1.52
2	B	964	VAL	C-O	-8.03	1.15	1.24
2	B	39	ARG	CZ-NH1	8.03	1.44	1.32
4	E	186	LEU	CA-CB	-8.03	1.40	1.53
1	A	437	MET	CA-C	-8.03	1.43	1.52
2	B	58	THR	C-O	8.03	1.34	1.24
1	A	1080	THR	C-N	8.02	1.44	1.33
1	A	1236	LEU	CG-CD2	8.02	1.79	1.52
2	B	517	THR	CB-OG1	-8.02	1.30	1.43
2	B	817	LEU	CG-CD2	-8.02	1.26	1.52
3	C	257	SER	C-N	-8.02	1.23	1.33
10	L	69	ALA	CA-CB	-8.02	1.41	1.53
6	H	132	LEU	C-O	8.02	1.34	1.24
1	A	670	ILE	CA-C	8.02	1.62	1.52
1	A	717	ASN	C-N	-8.02	1.24	1.33
1	A	1190	PRO	C-O	-8.02	1.14	1.24
2	B	95	ILE	CA-C	-8.02	1.43	1.52
3	C	94	LYS	CA-CB	8.02	1.67	1.53
3	C	141	GLY	N-CA	8.02	1.56	1.45
2	B	842	ASN	N-CA	8.01	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	380	VAL	CA-C	-8.01	1.44	1.52
1	A	721	PHE	N-CA	-8.01	1.36	1.46
1	A	735	VAL	C-O	-8.01	1.15	1.24
2	B	1055	ILE	C-N	-8.01	1.22	1.33
1	A	618	GLU	CA-CB	-8.00	1.43	1.54
2	B	354	ASP	C-N	8.00	1.43	1.33
2	B	1007	VAL	CA-CB	-8.00	1.46	1.55
9	K	3	ALA	CA-C	8.00	1.62	1.53
2	B	525	ALA	C-O	8.00	1.35	1.23
1	A	510	GLN	C-N	8.00	1.43	1.33
2	B	1087	PHE	CD2-CE2	-8.00	1.14	1.38
3	C	57	VAL	N-CA	8.00	1.57	1.46
1	A	301	ALA	C-N	-8.00	1.23	1.34
2	B	904	ARG	CD-NE	-8.00	1.35	1.46
2	B	1008	PRO	C-O	-8.00	1.15	1.23
1	A	451	HIS	CA-C	-7.99	1.43	1.52
1	A	1003	LYS	CA-C	7.99	1.63	1.52
3	C	252	GLN	C-O	-7.99	1.14	1.24
1	A	61	ILE	CB-CG1	7.99	1.69	1.53
1	A	720	ARG	CB-CG	7.99	1.76	1.52
1	A	273	ASN	C-O	7.99	1.34	1.24
2	B	978	ASP	CG-OD2	7.99	1.40	1.25
9	K	2	ASN	N-CA	7.99	1.55	1.46
4	E	212	ARG	CG-CD	7.99	1.76	1.52
2	B	1132	GLU	CB-CG	7.99	1.76	1.52
5	F	91	ALA	CA-C	-7.99	1.42	1.52
1	A	734	GLU	CA-C	-7.99	1.42	1.52
6	H	113	ALA	CA-CB	-7.99	1.40	1.53
1	A	1289	ARG	CB-CG	-7.98	1.28	1.52
4	E	53	PRO	CB-CG	7.98	1.89	1.49
1	A	1035	TYR	CE2-CZ	-7.98	1.19	1.38
7	I	18	GLU	CD-OE2	7.98	1.40	1.25
1	A	190	ALA	C-N	7.98	1.44	1.33
2	B	1220	ARG	CD-NE	7.98	1.57	1.46
4	E	28	TYR	CZ-OH	-7.98	1.21	1.38
4	E	201	LYS	C-O	7.98	1.34	1.23
1	A	1287	TYR	CA-C	7.98	1.62	1.52
2	B	583	ASN	CA-C	-7.98	1.42	1.53
5	F	72	LYS	CD-CE	7.98	1.76	1.52
8	J	49	MET	CA-CB	-7.97	1.40	1.53
2	B	41	LYS	CD-CE	7.97	1.76	1.52
1	A	1355	VAL	CB-CG1	-7.97	1.26	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	25	ILE	C-O	-7.97	1.12	1.23
2	B	205	ILE	CB-CG2	-7.97	1.26	1.52
2	B	888	GLY	N-CA	7.97	1.56	1.45
8	J	37	SER	N-CA	7.97	1.57	1.46
10	L	47	ARG	CB-CG	7.97	1.76	1.52
2	B	1031	LEU	C-O	-7.97	1.13	1.24
1	A	387	ARG	CA-C	7.96	1.63	1.52
1	A	1361	SER	CB-OG	7.96	1.58	1.42
3	C	120	ILE	CB-CG1	-7.96	1.37	1.53
4	E	88	VAL	CA-CB	7.96	1.63	1.54
1	A	980	ASP	CA-C	-7.96	1.41	1.52
2	B	883	LEU	CG-CD1	7.96	1.78	1.52
9	K	59	ALA	C-N	7.96	1.43	1.33
1	A	113	LEU	C-O	7.96	1.33	1.23
2	B	249	ARG	C-O	7.96	1.34	1.24
1	A	179	LEU	N-CA	7.96	1.55	1.46
2	B	169	ARG	C-N	-7.96	1.23	1.33
2	B	986	GLN	CA-CB	7.96	1.65	1.53
4	E	152	LYS	CA-C	-7.96	1.42	1.52
1	A	285	PRO	CA-C	-7.96	1.43	1.52
7	I	106	CYS	C-O	-7.96	1.14	1.24
3	C	265	MET	CA-C	-7.95	1.41	1.52
9	K	19	LEU	CB-CG	-7.95	1.37	1.53
2	B	792	MET	C-O	-7.95	1.14	1.23
4	E	72	PHE	CA-C	7.95	1.60	1.52
1	A	1008	GLN	N-CA	-7.95	1.36	1.46
1	A	1339	LEU	C-O	7.95	1.34	1.24
2	B	690	VAL	C-O	-7.95	1.15	1.23
2	B	980	PHE	CA-C	-7.95	1.42	1.52
1	A	496	GLU	CA-CB	7.95	1.66	1.53
1	A	911	SER	CB-OG	7.95	1.58	1.42
1	A	985	ASP	CG-OD2	7.95	1.40	1.25
4	E	95	THR	CA-CB	7.95	1.66	1.53
1	A	187	LYS	N-CA	7.95	1.56	1.45
3	C	23	SER	CA-C	-7.95	1.42	1.52
3	C	134	ILE	C-O	-7.95	1.15	1.24
4	E	137	GLU	CD-OE1	7.95	1.40	1.25
2	B	25	ILE	CB-CG2	7.94	1.78	1.52
2	B	851	PHE	CD1-CE1	7.94	1.62	1.38
1	A	368	LYS	CD-CE	7.94	1.76	1.52
2	B	228	LYS	C-O	7.94	1.33	1.23
3	C	233	GLU	C-N	7.94	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	181	LEU	CA-CB	-7.94	1.39	1.53
2	B	380	TYR	CA-CB	-7.94	1.41	1.53
1	A	450	LEU	CA-CB	-7.93	1.39	1.53
5	F	147	SER	C-O	7.93	1.33	1.23
1	A	485	ASP	C-O	-7.93	1.14	1.23
1	A	471	ASN	CA-C	-7.93	1.42	1.52
4	E	72	PHE	CD1-CE1	-7.93	1.14	1.38
7	I	4	PHE	C-N	7.93	1.45	1.33
8	J	61	LEU	CA-CB	-7.93	1.38	1.53
1	A	701	LEU	N-CA	-7.93	1.36	1.46
1	A	814	PHE	N-CA	7.93	1.56	1.46
2	B	241	ARG	CD-NE	7.93	1.57	1.46
2	B	485	ARG	C-O	7.93	1.32	1.24
3	C	267	GLN	CG-CD	7.93	1.71	1.52
1	A	1000	LEU	N-CA	-7.93	1.36	1.45
1	A	1331	SER	CA-CB	-7.93	1.42	1.52
1	A	665	GLY	CA-C	-7.92	1.42	1.51
2	B	878	GLN	CA-C	-7.92	1.42	1.52
8	J	43	ARG	N-CA	7.92	1.56	1.45
1	A	191	THR	CB-CG2	7.92	1.78	1.52
1	A	844	ALA	C-N	-7.92	1.21	1.33
2	B	233	PRO	CA-C	-7.92	1.41	1.52
2	B	653	VAL	CA-CB	-7.92	1.45	1.54
3	C	208	GLU	CD-OE2	7.92	1.40	1.25
1	A	616	VAL	CA-C	7.92	1.61	1.52
1	A	873	MET	N-CA	7.92	1.55	1.45
2	B	851	PHE	CD2-CE2	7.91	1.62	1.38
4	E	27	GLY	CA-C	7.91	1.63	1.51
7	I	54	GLU	C-O	-7.91	1.14	1.24
1	A	1407	GLU	CG-CD	7.91	1.71	1.52
3	C	167	HIS	ND1-CE1	7.91	1.40	1.32
1	A	464	PRO	N-CA	-7.91	1.37	1.47
2	B	246	LYS	C-O	7.91	1.33	1.23
2	B	546	SER	CA-CB	7.91	1.65	1.53
3	C	211	ASP	C-O	7.91	1.35	1.24
8	J	23	ASN	CB-CG	7.91	1.71	1.52
1	A	1139	GLU	CA-C	-7.91	1.42	1.52
2	B	485	ARG	CA-C	-7.91	1.40	1.52
3	C	233	GLU	C-O	-7.91	1.14	1.23
1	A	862	ASN	CB-CG	-7.90	1.32	1.52
2	B	1090	THR	CA-CB	-7.90	1.40	1.53
3	C	64	ALA	CA-C	-7.90	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	967	ALA	CA-C	7.90	1.63	1.52
2	B	521	LEU	CA-C	7.90	1.62	1.52
2	B	528	PRO	N-CD	-7.90	1.36	1.47
1	A	544	ASP	CB-CG	7.90	1.71	1.52
1	A	774	ARG	N-CA	7.90	1.56	1.45
1	A	1372	VAL	N-CA	-7.90	1.36	1.46
2	B	762	ASN	C-N	-7.90	1.23	1.33
2	B	665	GLU	C-O	-7.90	1.15	1.24
9	K	94	ILE	C-O	7.90	1.31	1.24
1	A	434	ARG	CD-NE	-7.89	1.35	1.46
2	B	1086	PHE	C-O	-7.89	1.14	1.24
2	B	1182	CYS	C-N	7.89	1.44	1.33
3	C	258	ILE	CA-C	-7.89	1.42	1.52
1	A	671	ALA	CA-C	7.89	1.63	1.52
2	B	381	MET	CG-SD	7.89	2.00	1.80
2	B	1091	TYR	CA-CB	-7.89	1.42	1.53
1	A	270	LEU	CA-C	7.89	1.63	1.52
2	B	348	ARG	CA-CB	-7.89	1.41	1.53
5	F	151	LEU	CA-C	-7.89	1.42	1.52
2	B	1034	VAL	N-CA	-7.89	1.37	1.46
1	A	303	TYR	C-N	-7.89	1.22	1.33
1	A	411	ASP	CG-OD2	7.89	1.40	1.25
2	B	615	MET	CA-C	-7.88	1.42	1.52
3	C	83	SER	N-CA	-7.88	1.36	1.46
6	H	25	ARG	CA-C	7.88	1.62	1.52
2	B	747	MET	N-CA	7.88	1.56	1.46
2	B	1104	HIS	CB-CG	7.88	1.61	1.50
1	A	26	GLU	CA-C	-7.88	1.42	1.52
1	A	625	SER	CA-C	7.88	1.62	1.52
1	A	896	ARG	NE-CZ	-7.88	1.24	1.33
1	A	1092	LYS	CB-CG	7.88	1.76	1.52
2	B	355	ILE	CB-CG1	-7.88	1.37	1.53
2	B	619	ILE	CA-C	-7.88	1.42	1.53
1	A	135	PHE	C-N	-7.88	1.22	1.33
2	B	958	GLN	CD-NE2	7.88	1.49	1.33
3	C	241	ASP	CB-CG	7.88	1.71	1.52
1	A	921	GLY	C-N	-7.88	1.22	1.33
6	H	5	LEU	C-N	-7.88	1.23	1.33
1	A	369	SER	N-CA	-7.88	1.36	1.46
1	A	1199	ARG	CZ-NH1	7.88	1.43	1.32
2	B	809	MET	CG-SD	7.87	2.00	1.80
4	E	54	GLN	CB-CG	7.87	1.76	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	160	GLN	CA-C	-7.87	1.43	1.52
6	H	138	GLU	CA-C	-7.87	1.42	1.52
3	C	231	ASN	CA-C	-7.87	1.42	1.52
2	B	367	LEU	CA-C	7.87	1.63	1.53
4	E	51	GLY	N-CA	7.87	1.56	1.45
2	B	394	ASP	CB-CG	7.87	1.71	1.52
1	A	586	ILE	CB-CG2	-7.87	1.26	1.52
1	A	768	GLN	N-CA	-7.87	1.35	1.45
1	A	843	LYS	CB-CG	7.87	1.76	1.52
1	A	960	ILE	CB-CG2	-7.87	1.26	1.52
3	C	70	ILE	CB-CG1	7.87	1.69	1.53
2	B	660	LYS	CG-CD	7.86	1.76	1.52
2	B	1064	TYR	CG-CD2	-7.86	1.22	1.39
8	J	21	TYR	CA-CB	7.86	1.66	1.53
2	B	186	GLU	CA-C	-7.86	1.43	1.52
9	K	93	SER	CA-C	-7.86	1.41	1.52
1	A	490	HIS	CA-C	-7.86	1.43	1.52
2	B	776	GLN	CB-CG	-7.86	1.28	1.52
3	C	206	ASN	CB-CG	-7.86	1.32	1.52
6	H	143	LEU	N-CA	7.86	1.55	1.46
7	I	42	LEU	C-N	-7.86	1.23	1.33
4	E	57	MET	CG-SD	7.86	2.00	1.80
6	H	22	LYS	N-CA	-7.86	1.35	1.46
1	A	848	ILE	C-N	-7.86	1.22	1.33
7	I	82	GLU	CG-CD	7.86	1.71	1.52
2	B	491	THR	C-O	7.86	1.33	1.24
3	C	13	ALA	CA-C	-7.86	1.42	1.52
1	A	1194	ARG	CB-CG	7.85	1.76	1.52
3	C	218	PRO	CA-CB	7.85	1.63	1.53
9	K	76	GLN	CA-C	7.85	1.62	1.52
1	A	520	CYS	CB-SG	-7.85	1.55	1.81
2	B	346	GLU	CD-OE2	7.85	1.40	1.25
1	A	25	GLU	C-O	-7.85	1.14	1.24
7	I	44	TYR	CG-CD1	-7.85	1.22	1.39
9	K	72	LYS	CD-CE	7.85	1.75	1.52
2	B	213	ILE	CA-C	-7.85	1.43	1.52
4	E	113	GLN	N-CA	7.85	1.56	1.46
1	A	439	ASN	CG-ND2	-7.84	1.16	1.33
1	A	511	ILE	CA-C	-7.84	1.43	1.52
1	A	1337	GLU	CA-C	-7.84	1.42	1.52
1	A	1063	MET	C-N	-7.84	1.25	1.34
1	A	1231	ASP	CG-OD2	7.84	1.40	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1032	SER	N-CA	-7.84	1.36	1.46
3	C	78	GLU	CD-OE1	7.84	1.40	1.25
2	B	165	VAL	N-CA	7.84	1.56	1.46
2	B	1188	LYS	CG-CD	7.84	1.75	1.52
3	C	221	TYR	CB-CG	-7.84	1.34	1.51
2	B	804	GLY	N-CA	7.84	1.56	1.45
2	B	656	GLY	CA-C	7.83	1.61	1.52
2	B	1010	LEU	CA-C	-7.83	1.43	1.52
1	A	1079	MET	SD-CE	-7.83	1.59	1.79
2	B	119	LEU	CA-C	-7.83	1.42	1.52
2	B	228	LYS	C-N	7.83	1.44	1.33
2	B	711	GLU	CA-CB	-7.83	1.41	1.53
2	B	1136	ASP	N-CA	-7.83	1.36	1.46
1	A	415	LEU	CG-CD1	7.83	1.78	1.52
1	A	825	ILE	CA-CB	-7.83	1.43	1.54
2	B	764	SER	C-N	-7.83	1.24	1.34
2	B	260	GLY	C-N	7.83	1.44	1.33
6	H	94	ASP	CA-C	7.83	1.63	1.52
1	A	651	LYS	C-N	-7.83	1.24	1.33
1	A	732	LEU	C-N	-7.83	1.23	1.33
1	A	507	VAL	C-N	-7.83	1.23	1.34
2	B	121	ASN	CA-CB	7.83	1.65	1.53
2	B	285	ILE	CA-C	7.83	1.62	1.52
2	B	683	SER	N-CA	-7.83	1.36	1.46
1	A	769	SER	CA-CB	-7.82	1.40	1.53
1	A	1220	PHE	CG-CD2	-7.82	1.22	1.38
1	A	516	SER	C-O	7.82	1.35	1.24
4	E	24	LYS	CA-CB	7.82	1.65	1.53
1	A	452	LYS	C-O	-7.82	1.13	1.24
1	A	603	ASN	CB-CG	-7.82	1.32	1.52
2	B	451	LYS	CA-C	7.82	1.63	1.52
2	B	451	LYS	CB-CG	7.82	1.75	1.52
9	K	58	PHE	CA-C	-7.82	1.43	1.52
1	A	446	ARG	NE-CZ	-7.82	1.24	1.33
6	H	81	PRO	CA-CB	7.82	1.64	1.54
6	H	141	TYR	CE1-CZ	-7.82	1.19	1.38
1	A	184	SER	CA-CB	7.82	1.64	1.52
1	A	805	LEU	CA-CB	-7.82	1.41	1.53
3	C	85	ASP	N-CA	-7.82	1.35	1.46
1	A	131	SER	CA-C	7.81	1.63	1.52
2	B	432	MET	CA-CB	7.81	1.66	1.53
2	B	769	TYR	N-CA	-7.81	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	912	ILE	CA-C	7.81	1.62	1.52
2	B	604	ARG	C-O	-7.81	1.14	1.24
2	B	889	THR	C-O	7.81	1.33	1.24
1	A	22	PHE	C-O	7.80	1.33	1.24
2	B	382	ILE	N-CA	-7.80	1.36	1.46
1	A	474	VAL	CB-CG2	-7.80	1.26	1.52
3	C	215	GLU	N-CA	7.80	1.56	1.46
1	A	119	ASN	N-CA	7.80	1.56	1.46
2	B	1093	GLN	CD-OE1	7.80	1.38	1.23
1	A	187	LYS	CA-CB	7.80	1.65	1.54
1	A	416	ARG	CA-CB	7.80	1.66	1.53
1	A	1317	MET	CG-SD	7.80	2.00	1.80
2	B	96	TYR	CG-CD2	7.80	1.55	1.39
1	A	911	SER	C-N	7.79	1.44	1.34
2	B	45	SER	C-N	-7.79	1.23	1.33
2	B	299	GLU	CD-OE1	7.79	1.40	1.25
9	K	83	PRO	N-CA	-7.79	1.37	1.47
10	L	62	LYS	CE-NZ	7.79	1.72	1.49
1	A	1215	ARG	CA-C	-7.79	1.43	1.52
2	B	65	GLU	C-O	7.79	1.34	1.23
2	B	1074	ASN	CA-CB	-7.79	1.40	1.53
7	I	115	LYS	CE-NZ	7.79	1.72	1.49
1	A	183	GLY	C-O	-7.79	1.12	1.24
3	C	196	ASP	N-CA	7.79	1.55	1.46
4	E	66	GLU	CG-CD	7.79	1.71	1.52
1	A	269	ILE	N-CA	-7.79	1.36	1.46
1	A	704	ALA	C-O	7.79	1.33	1.23
2	B	336	ARG	C-O	7.79	1.33	1.24
2	B	1089	PRO	CA-C	-7.79	1.43	1.52
3	C	160	LYS	C-O	7.79	1.33	1.23
4	E	108	GLY	C-O	-7.79	1.13	1.23
6	H	9	ILE	N-CA	7.79	1.55	1.46
9	K	61	TYR	CG-CD2	-7.79	1.23	1.39
1	A	1234	GLU	CG-CD	7.79	1.71	1.52
6	H	59	ILE	CA-C	-7.79	1.43	1.52
1	A	668	ASP	N-CA	-7.79	1.35	1.46
8	J	47	ARG	CB-CG	-7.79	1.29	1.52
1	A	1293	SER	CA-CB	-7.78	1.41	1.53
2	B	1209	ALA	N-CA	7.78	1.56	1.46
4	E	190	LEU	CA-C	-7.78	1.42	1.52
6	H	7	ASP	CB-CG	7.78	1.71	1.52
1	A	889	SER	N-CA	7.78	1.55	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1058	VAL	N-CA	-7.78	1.35	1.46
8	J	43	ARG	CG-CD	7.78	1.75	1.52
1	A	1176	LEU	CG-CD1	7.78	1.78	1.52
1	A	1195	LEU	N-CA	7.78	1.55	1.46
2	B	664	THR	CB-OG1	7.77	1.56	1.43
1	A	65	LEU	C-N	7.77	1.43	1.33
2	B	377	PHE	CG-CD2	-7.77	1.22	1.38
9	K	12	LEU	N-CA	7.77	1.56	1.46
2	B	1070	GLU	CD-OE2	7.77	1.40	1.25
7	I	44	TYR	CA-C	-7.77	1.42	1.52
1	A	301	ALA	CA-C	7.77	1.63	1.52
2	B	320	ASP	CA-C	-7.77	1.42	1.52
4	E	196	VAL	C-O	-7.77	1.14	1.24
1	A	220	THR	CA-CB	-7.77	1.41	1.53
1	A	540	PHE	C-O	7.77	1.34	1.23
7	I	57	GLY	C-O	-7.77	1.13	1.23
1	A	552	TRP	C-O	-7.77	1.14	1.24
1	A	1200	ALA	N-CA	7.77	1.56	1.46
2	B	195	CYS	CA-C	-7.77	1.44	1.53
2	B	400	HIS	C-O	-7.77	1.14	1.24
2	B	1061	GLU	CD-OE1	7.76	1.40	1.25
2	B	497	ARG	CD-NE	-7.76	1.35	1.46
2	B	89	GLU	C-O	7.76	1.39	1.23
4	E	18	THR	CA-C	-7.76	1.42	1.52
1	A	1206	ASP	CB-CG	7.76	1.71	1.52
3	C	111	THR	CB-OG1	7.76	1.56	1.43
2	B	385	LEU	CA-C	-7.76	1.43	1.52
1	A	866	PHE	CE2-CZ	-7.75	1.15	1.38
2	B	538	ASN	CA-CB	-7.75	1.40	1.53
3	C	20	PHE	CB-CG	-7.75	1.32	1.50
4	E	2	ASP	CA-C	7.75	1.63	1.52
1	A	1417	GLU	CA-C	7.75	1.62	1.52
3	C	252	GLN	CD-NE2	7.75	1.49	1.33
6	H	120	GLY	CA-C	7.75	1.62	1.51
1	A	1133	LEU	CG-CD2	7.75	1.78	1.52
2	B	841	MET	C-O	-7.75	1.14	1.23
1	A	466	SER	CA-CB	-7.75	1.42	1.53
1	A	1446	ASP	CA-CB	7.75	1.62	1.52
3	C	175	ALA	C-O	7.75	1.34	1.23
1	A	1422	ARG	N-CA	7.75	1.56	1.45
9	K	74	ARG	NE-CZ	-7.75	1.24	1.33
10	L	63	ARG	CA-CB	7.75	1.66	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1005	GLU	CD-OE2	7.74	1.40	1.25
1	A	795	GLU	C-O	-7.74	1.14	1.24
2	B	255	GLN	CA-C	-7.74	1.43	1.52
2	B	1132	GLU	CD-OE1	7.74	1.40	1.25
1	A	594	GLY	N-CA	7.74	1.56	1.45
1	A	1053	PHE	CB-CG	-7.74	1.32	1.50
2	B	526	GLU	CA-C	-7.74	1.43	1.52
2	B	965	LYS	CD-CE	7.74	1.75	1.52
4	E	213	ILE	CA-C	-7.74	1.43	1.52
1	A	789	LYS	C-N	-7.74	1.22	1.33
1	A	802	ASN	C-O	-7.74	1.13	1.23
3	C	209	TYR	CG-CD2	7.74	1.55	1.39
1	A	53	LEU	N-CA	7.73	1.56	1.45
1	A	114	LEU	CA-C	-7.73	1.42	1.52
2	B	1020	ARG	N-CA	-7.73	1.35	1.46
2	B	860	MET	SD-CE	7.73	1.98	1.79
9	K	33	ILE	C-N	-7.73	1.22	1.33
2	B	38	PHE	C-N	-7.73	1.24	1.33
2	B	100	PRO	C-O	-7.73	1.15	1.23
10	L	45	ALA	C-N	7.73	1.44	1.33
2	B	250	PHE	CG-CD1	7.72	1.55	1.38
2	B	883	LEU	CG-CD2	7.72	1.78	1.52
3	C	162	GLY	C-O	7.72	1.32	1.24
1	A	896	ARG	CZ-NH1	7.72	1.43	1.32
1	A	1162	VAL	N-CA	-7.72	1.37	1.46
2	B	1102	LYS	C-O	7.72	1.33	1.24
4	E	212	ARG	CZ-NH2	7.72	1.43	1.33
1	A	284	ALA	CA-C	-7.72	1.43	1.52
2	B	490	SER	N-CA	7.72	1.56	1.46
4	E	197	LYS	CG-CD	7.72	1.75	1.52
9	K	54	ARG	CB-CG	7.72	1.75	1.52
1	A	1278	ASN	CB-CG	-7.72	1.32	1.52
2	B	255	GLN	CA-CB	-7.72	1.36	1.53
2	B	740	HIS	C-O	-7.72	1.14	1.23
4	E	84	ASP	CA-CB	7.72	1.66	1.53
1	A	1022	LEU	CA-C	-7.71	1.43	1.52
9	K	83	PRO	C-O	-7.71	1.13	1.24
2	B	1209	ALA	C-O	7.71	1.33	1.24
1	A	1030	ARG	CB-CG	-7.71	1.29	1.52
9	K	54	ARG	CZ-NH2	7.71	1.43	1.33
1	A	983	ILE	CB-CG1	7.71	1.68	1.53
1	A	505	CYS	CA-C	-7.71	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	883	LEU	N-CA	-7.70	1.36	1.46
1	A	1286	LYS	CB-CG	7.70	1.75	1.52
1	A	383	TYR	CD2-CE2	7.70	1.61	1.38
1	A	572	TRP	CG-CD1	-7.70	1.17	1.36
2	B	619	ILE	CB-CG2	-7.70	1.27	1.52
9	K	2	ASN	C-O	7.70	1.34	1.24
1	A	1420	ASP	CG-OD1	7.70	1.40	1.25
2	B	510	LYS	CE-NZ	7.70	1.72	1.49
5	F	136	ARG	CZ-NH1	-7.70	1.22	1.32
2	B	786	ASN	CA-C	7.69	1.63	1.52
1	A	1267	MET	CA-C	-7.69	1.42	1.52
2	B	209	GLU	C-N	-7.69	1.23	1.33
2	B	1223	ASP	C-N	7.69	1.44	1.33
3	C	173	ALA	N-CA	7.69	1.54	1.45
4	E	63	ASN	CB-CG	7.69	1.71	1.52
1	A	184	SER	N-CA	7.69	1.56	1.46
1	A	441	PRO	CB-CG	-7.69	1.11	1.49
1	A	748	MET	SD-CE	7.69	1.98	1.79
2	B	1219	ASP	CA-C	7.69	1.62	1.52
1	A	6	TYR	C-N	7.69	1.44	1.33
1	A	966	ASN	CA-C	-7.69	1.43	1.52
2	B	436	VAL	N-CA	7.69	1.55	1.46
2	B	850	LEU	C-O	-7.69	1.14	1.23
4	E	168	TYR	C-N	-7.69	1.23	1.33
1	A	221	SER	C-O	7.68	1.33	1.24
1	A	905	ASP	N-CA	-7.68	1.36	1.46
4	E	34	GLU	CA-CB	7.68	1.65	1.53
9	K	32	VAL	N-CA	-7.68	1.35	1.46
9	K	109	TRP	C-O	7.68	1.33	1.24
1	A	984	LYS	CE-NZ	7.68	1.72	1.49
2	B	387	LEU	CG-CD1	-7.68	1.27	1.52
2	B	1033	LYS	CB-CG	-7.68	1.29	1.52
3	C	12	GLU	CD-OE2	7.68	1.40	1.25
1	A	268	ASP	CA-CB	7.68	1.66	1.53
1	A	962	ARG	CZ-NH1	7.68	1.43	1.32
1	A	1267	MET	N-CA	7.68	1.55	1.46
9	K	22	ASP	CB-CG	7.68	1.71	1.52
1	A	1282	VAL	CA-CB	-7.68	1.44	1.54
6	H	60	ALA	N-CA	7.68	1.54	1.46
2	B	241	ARG	NE-CZ	7.67	1.41	1.33
2	B	484	ASN	CA-C	7.67	1.62	1.52
2	B	1002	THR	CB-CG2	7.67	1.77	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	107	SER	C-N	7.67	1.43	1.33
2	B	1154	ALA	C-N	7.67	1.44	1.33
2	B	431	TYR	N-CA	7.67	1.55	1.46
6	H	126	GLU	CD-OE1	7.67	1.40	1.25
1	A	718	VAL	CB-CG2	-7.67	1.27	1.52
1	A	943	LEU	N-CA	-7.67	1.36	1.46
3	C	163	ILE	CA-C	-7.67	1.43	1.52
6	H	22	LYS	CG-CD	7.67	1.75	1.52
6	H	23	VAL	N-CA	-7.67	1.37	1.46
1	A	129	LYS	C-O	7.66	1.34	1.23
1	A	1359	ASP	CG-OD2	7.66	1.40	1.25
2	B	963	PHE	CE1-CZ	7.66	1.61	1.38
1	A	969	GLN	CD-OE1	7.66	1.38	1.23
1	A	686	ALA	C-N	-7.66	1.23	1.33
2	B	819	ALA	N-CA	-7.66	1.33	1.46
2	B	91	SER	C-O	7.66	1.32	1.23
1	A	640	GLN	CA-C	-7.66	1.43	1.52
2	B	409	ALA	CA-C	-7.66	1.42	1.52
1	A	377	PRO	C-O	-7.66	1.14	1.24
1	A	1105	LEU	N-CA	-7.66	1.36	1.46
2	B	447	ALA	CA-C	7.66	1.63	1.52
7	I	17	ARG	CD-NE	7.66	1.56	1.46
1	A	1155	ASP	CA-C	-7.65	1.42	1.52
2	B	169	ARG	C-O	-7.65	1.15	1.24
2	B	989	THR	C-O	-7.65	1.14	1.23
4	E	25	ASP	N-CA	7.65	1.56	1.46
6	H	134	ASN	CB-CG	7.65	1.71	1.52
9	K	95	ILE	C-N	7.65	1.44	1.33
2	B	773	MET	C-O	-7.65	1.15	1.24
3	C	54	ASN	CB-CG	-7.65	1.32	1.52
5	F	121	ALA	C-N	-7.65	1.23	1.33
1	A	749	ALA	N-CA	-7.65	1.36	1.46
4	E	8	ASN	CA-C	-7.65	1.42	1.52
2	B	546	SER	C-O	-7.65	1.13	1.23
2	B	654	ARG	NE-CZ	-7.65	1.24	1.33
2	B	1221	SER	CA-CB	7.64	1.66	1.53
1	A	56	PRO	C-O	7.64	1.33	1.24
4	E	61	GLN	CB-CG	7.64	1.75	1.52
1	A	1164	PRO	CG-CD	7.64	1.76	1.50
1	A	465	TYR	CA-CB	7.64	1.66	1.53
1	A	1341	ILE	C-O	-7.64	1.15	1.24
1	A	386	ASP	CB-CG	7.64	1.71	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	246	VAL	CA-CB	7.64	1.64	1.54
1	A	248	PRO	N-CD	7.64	1.58	1.47
1	A	398	GLU	CD-OE2	7.64	1.39	1.25
1	A	614	PHE	N-CA	-7.64	1.36	1.45
1	A	874	ASP	N-CA	-7.64	1.36	1.46
1	A	1026	LEU	CA-CB	-7.63	1.42	1.53
1	A	1352	VAL	N-CA	7.63	1.55	1.46
1	A	1341	ILE	CA-C	-7.63	1.43	1.52
2	B	664	THR	N-CA	-7.63	1.36	1.46
10	L	53	HIS	CA-C	7.63	1.62	1.52
2	B	692	TYR	CG-CD1	-7.63	1.23	1.39
6	H	96	VAL	C-O	7.63	1.31	1.24
1	A	269	ILE	CA-C	-7.63	1.43	1.52
1	A	512	VAL	CA-C	7.63	1.62	1.52
1	A	601	LYS	CA-C	7.63	1.63	1.52
4	E	180	ARG	CG-CD	7.63	1.75	1.52
6	H	114	VAL	CA-C	7.63	1.61	1.52
1	A	1222	ASN	C-O	7.62	1.32	1.24
1	A	1319	VAL	CB-CG1	7.62	1.77	1.52
2	B	497	ARG	CA-C	-7.62	1.42	1.53
2	B	657	HIS	CA-CB	-7.62	1.40	1.53
4	E	194	GLU	CB-CG	7.62	1.75	1.52
2	B	30	SER	C-O	-7.62	1.15	1.24
3	C	254	LYS	C-N	-7.62	1.25	1.34
2	B	409	ALA	N-CA	-7.62	1.36	1.46
2	B	368	GLU	CA-C	7.62	1.62	1.52
2	B	510	LYS	N-CA	7.62	1.54	1.46
2	B	620	ARG	CG-CD	7.62	1.75	1.52
1	A	276	LEU	CA-CB	-7.62	1.40	1.53
2	B	686	ASN	C-O	7.62	1.33	1.24
1	A	80	HIS	CA-C	7.62	1.63	1.53
2	B	202	TYR	CE1-CZ	-7.62	1.20	1.38
2	B	564	GLU	CD-OE2	7.62	1.39	1.25
1	A	555	ASP	CG-OD1	7.61	1.39	1.25
1	A	759	ALA	C-O	7.61	1.33	1.24
3	C	77	ILE	C-O	7.61	1.33	1.24
3	C	62	PHE	C-O	-7.61	1.15	1.24
4	E	129	PRO	CA-CB	7.61	1.67	1.53
1	A	953	ASN	C-O	-7.61	1.14	1.24
2	B	606	LYS	CD-CE	7.61	1.75	1.52
6	H	121	LEU	CA-CB	-7.61	1.42	1.53
2	B	425	THR	CB-CG2	7.61	1.77	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	39	LEU	CA-C	-7.61	1.42	1.52
2	B	945	GLU	CG-CD	7.60	1.71	1.52
1	A	148	CYS	CB-SG	-7.60	1.56	1.81
2	B	1081	LEU	N-CA	-7.60	1.36	1.46
9	K	24	ASP	CG-OD2	7.60	1.39	1.25
3	C	96	SER	C-O	7.60	1.34	1.23
7	I	12	ASN	CA-C	7.60	1.62	1.52
2	B	23	ALA	CA-C	-7.60	1.44	1.53
1	A	143	LYS	C-O	-7.60	1.14	1.24
2	B	698	GLU	CD-OE1	7.60	1.39	1.25
1	A	941	LYS	C-N	-7.59	1.24	1.33
2	B	190	TYR	CA-CB	-7.59	1.41	1.53
9	K	90	ALA	C-O	-7.59	1.14	1.24
9	K	87	LEU	N-CA	-7.59	1.36	1.46
2	B	337	ARG	CZ-NH1	-7.59	1.22	1.32
2	B	1073	TYR	CB-CG	7.59	1.68	1.51
1	A	398	GLU	N-CA	7.59	1.55	1.46
1	A	739	ASP	CB-CG	7.59	1.71	1.52
1	A	937	VAL	C-N	-7.59	1.23	1.33
8	J	18	TRP	C-O	-7.59	1.14	1.24
1	A	1051	ALA	C-N	7.59	1.43	1.33
2	B	1025	HIS	CG-ND1	-7.58	1.29	1.38
8	J	28	ASP	N-CA	7.58	1.55	1.46
1	A	89	PRO	CA-C	-7.58	1.43	1.52
1	A	534	LEU	CA-C	-7.58	1.42	1.52
1	A	706	HIS	C-O	7.58	1.33	1.24
1	A	1223	ASP	CA-C	7.58	1.62	1.52
2	B	950	ASP	C-O	7.58	1.32	1.24
2	B	1077	THR	C-N	-7.58	1.22	1.33
2	B	897	GLY	CA-C	7.58	1.62	1.51
2	B	870	ILE	CB-CG2	7.58	1.77	1.52
5	F	116	ASP	CA-CB	7.58	1.64	1.52
1	A	1346	ALA	C-O	-7.58	1.14	1.24
2	B	706	GLN	CG-CD	7.58	1.71	1.52
2	B	1132	GLU	CG-CD	7.58	1.71	1.52
1	A	782	ARG	CA-C	-7.57	1.42	1.52
1	A	727	ASP	N-CA	-7.57	1.37	1.46
2	B	499	ASN	CA-C	-7.57	1.43	1.52
10	L	68	GLU	N-CA	-7.57	1.35	1.46
1	A	1038	THR	CA-CB	7.57	1.64	1.53
3	C	136	ASP	CG-OD1	-7.57	1.10	1.25
2	B	848	ARG	CA-CB	-7.57	1.40	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	F	123	LYS	C-N	7.57	1.43	1.33
3	C	180	TYR	CG-CD1	-7.57	1.23	1.39
5	F	93	ILE	C-N	-7.57	1.23	1.34
1	A	659	HIS	CB-CG	-7.56	1.39	1.50
6	H	106	GLU	CA-C	7.56	1.63	1.52
2	B	135	ARG	NE-CZ	7.56	1.41	1.33
2	B	934	LYS	CB-CG	7.56	1.75	1.52
2	B	1020	ARG	NE-CZ	-7.56	1.24	1.33
8	J	31	ASP	CA-C	7.56	1.62	1.52
1	A	656	TRP	CD2-CE2	7.56	1.54	1.41
1	A	195	ASP	CA-C	7.56	1.63	1.53
1	A	1345	ARG	C-O	-7.56	1.15	1.24
10	L	61	THR	CB-CG2	7.56	1.77	1.52
1	A	1192	LEU	C-O	-7.55	1.15	1.24
2	B	490	SER	C-O	-7.55	1.14	1.24
4	E	142	VAL	C-O	7.55	1.32	1.24
8	J	49	MET	CG-SD	7.55	1.99	1.80
1	A	546	VAL	CB-CG2	-7.55	1.27	1.52
1	A	1290	LYS	CE-NZ	7.55	1.72	1.49
2	B	22	SER	C-N	-7.55	1.23	1.33
3	C	79	GLN	CG-CD	7.55	1.71	1.52
9	K	24	ASP	CA-C	-7.55	1.43	1.52
1	A	175	ARG	CA-CB	-7.55	1.40	1.53
1	A	1267	MET	C-N	-7.55	1.23	1.33
2	B	29	ASP	C-N	-7.55	1.24	1.33
2	B	566	LEU	CA-C	7.55	1.62	1.52
1	A	862	ASN	C-O	-7.55	1.13	1.23
2	B	1095	LEU	CA-C	-7.55	1.43	1.52
1	A	996	ASN	CA-CB	7.54	1.65	1.53
2	B	593	PRO	CB-CG	7.54	1.87	1.49
2	B	456	GLY	C-O	7.54	1.33	1.24
2	B	813	LYS	CG-CD	7.54	1.75	1.52
8	J	5	VAL	CA-C	-7.54	1.43	1.52
1	A	1306	LEU	C-O	7.54	1.32	1.23
2	B	833	TYR	CA-C	-7.54	1.42	1.52
7	I	107	SER	N-CA	7.54	1.57	1.46
2	B	333	PHE	CG-CD2	-7.54	1.23	1.38
2	B	737	THR	CA-CB	-7.54	1.43	1.53
1	A	838	GLN	CD-OE1	7.54	1.37	1.23
2	B	887	HIS	CA-CB	7.54	1.66	1.53
4	E	44	ALA	N-CA	7.54	1.55	1.46
2	B	241	ARG	CG-CD	7.54	1.75	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	743	ILE	N-CA	-7.54	1.37	1.46
1	A	504	LEU	CA-CB	-7.54	1.43	1.54
2	B	241	ARG	C-N	-7.54	1.23	1.33
2	B	1045	SER	C-O	-7.54	1.14	1.23
3	C	205	LYS	CD-CE	7.54	1.75	1.52
4	E	156	LEU	CA-CB	7.54	1.64	1.53
2	B	501	PRO	CA-C	-7.53	1.43	1.52
2	B	789	MET	C-O	7.53	1.33	1.23
4	E	98	ILE	C-N	7.53	1.44	1.33
1	A	542	GLU	CA-C	-7.53	1.42	1.53
1	A	1315	GLU	CB-CG	7.53	1.75	1.52
1	A	606	LEU	C-N	-7.53	1.24	1.33
1	A	837	ILE	N-CA	-7.53	1.37	1.46
1	A	1316	VAL	CB-CG2	-7.53	1.27	1.52
5	F	148	VAL	CA-C	-7.53	1.43	1.52
1	A	71	GLN	CG-CD	7.53	1.70	1.52
2	B	882	THR	CA-CB	7.53	1.67	1.53
4	E	175	LEU	CA-C	7.53	1.62	1.52
6	H	40	LEU	CG-CD1	-7.53	1.27	1.52
1	A	1061	GLY	N-CA	-7.53	1.33	1.45
1	A	1189	SER	C-O	-7.53	1.14	1.24
2	B	879	ARG	CA-C	-7.53	1.42	1.52
10	L	49	LYS	CB-CG	7.53	1.75	1.52
1	A	541	ILE	N-CA	-7.52	1.37	1.46
2	B	1169	MET	N-CA	-7.52	1.37	1.46
4	E	124	VAL	CA-CB	7.52	1.63	1.54
2	B	1147	LEU	CA-CB	-7.52	1.41	1.53
4	E	191	LYS	C-N	-7.52	1.23	1.33
1	A	995	GLU	CD-OE2	7.52	1.39	1.25
2	B	268	THR	C-N	-7.52	1.22	1.33
2	B	654	ARG	CD-NE	-7.52	1.35	1.46
1	A	382	PRO	C-O	-7.52	1.13	1.24
1	A	1129	GLU	CG-CD	7.52	1.70	1.52
1	A	1153	TYR	CG-CD1	-7.52	1.23	1.39
2	B	1180	PHE	C-O	7.52	1.32	1.24
1	A	1432	GLN	CB-CG	7.52	1.75	1.52
2	B	41	LYS	CE-NZ	7.51	1.71	1.49
2	B	750	GLY	CA-C	-7.51	1.43	1.52
2	B	1176	ASN	CG-OD1	7.51	1.37	1.23
1	A	1432	GLN	CD-NE2	-7.51	1.17	1.33
3	C	73	GLN	CD-OE1	-7.51	1.09	1.23
1	A	944	ARG	C-N	-7.51	1.23	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1415	SER	CB-OG	-7.51	1.27	1.42
2	B	767	ASN	CB-CG	-7.51	1.33	1.52
8	J	18	TRP	CE2-CZ2	-7.51	1.24	1.39
4	E	136	ASN	CG-ND2	7.51	1.49	1.33
1	A	692	ASP	C-O	-7.51	1.14	1.24
1	A	1204	ASP	N-CA	-7.51	1.36	1.46
3	C	71	PRO	N-CA	-7.51	1.38	1.47
8	J	24	LEU	CA-C	-7.51	1.42	1.52
1	A	47	ARG	CA-C	7.51	1.62	1.52
1	A	61	ILE	CB-CG2	7.51	1.77	1.52
1	A	290	GLU	C-O	-7.51	1.15	1.24
1	A	304	MET	CG-SD	7.51	1.99	1.80
2	B	1139	ILE	CA-C	-7.51	1.41	1.52
1	A	436	ILE	CA-C	-7.50	1.44	1.53
2	B	548	GLY	N-CA	7.50	1.56	1.45
2	B	916	THR	N-CA	7.50	1.60	1.46
1	A	614	PHE	CE2-CZ	-7.50	1.16	1.38
2	B	615	MET	C-O	7.50	1.32	1.23
2	B	828	ALA	N-CA	7.50	1.55	1.46
5	F	79	ARG	CZ-NH1	-7.50	1.22	1.32
9	K	48	ALA	CA-CB	-7.50	1.41	1.53
1	A	499	ALA	N-CA	7.50	1.55	1.46
2	B	777	ALA	CA-C	7.50	1.63	1.53
1	A	791	ASP	N-CA	-7.50	1.36	1.46
9	K	68	PHE	CG-CD1	-7.50	1.23	1.38
2	B	270	LYS	CE-NZ	7.49	1.71	1.49
2	B	880	THR	C-O	7.49	1.33	1.23
1	A	475	THR	CB-OG1	7.49	1.55	1.43
1	A	1074	GLU	CA-C	-7.49	1.43	1.52
2	B	446	LEU	CA-C	7.49	1.68	1.52
2	B	769	TYR	CA-C	-7.49	1.42	1.52
2	B	1161	HIS	CG-CD2	7.49	1.44	1.35
2	B	1203	LEU	C-N	-7.49	1.23	1.34
1	A	198	GLU	CD-OE2	7.49	1.39	1.25
1	A	198	GLU	C-O	-7.49	1.15	1.23
2	B	811	TYR	CE2-CZ	-7.49	1.20	1.38
2	B	217	ARG	CG-CD	7.49	1.75	1.52
9	K	10	PHE	C-O	-7.49	1.15	1.23
2	B	1076	HIS	C-N	-7.49	1.21	1.33
3	C	87	PHE	CG-CD1	-7.49	1.23	1.38
3	C	165	LYS	CG-CD	7.48	1.75	1.52
6	H	98	TYR	C-O	-7.48	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	529	GLU	CG-CD	7.48	1.70	1.52
1	A	14	VAL	C-O	-7.48	1.15	1.24
2	B	116	GLU	C-O	7.48	1.33	1.24
1	A	25	GLU	CA-CB	-7.48	1.41	1.53
1	A	1045	VAL	CB-CG1	-7.48	1.27	1.52
2	B	130	VAL	C-O	-7.48	1.15	1.24
4	E	145	THR	C-O	-7.48	1.13	1.24
1	A	818	MET	CG-SD	7.48	1.99	1.80
2	B	288	ALA	N-CA	7.48	1.56	1.46
1	A	740	LEU	CA-CB	-7.48	1.40	1.53
2	B	466	TRP	C-N	7.47	1.43	1.33
4	E	17	ARG	CD-NE	7.47	1.56	1.46
1	A	438	ASP	C-O	-7.47	1.15	1.23
2	B	971	THR	C-O	-7.47	1.15	1.24
6	H	43	ASN	C-O	-7.47	1.14	1.23
10	L	47	ARG	CD-NE	7.47	1.56	1.46
1	A	720	ARG	CG-CD	7.47	1.74	1.52
1	A	858	ASN	CA-C	7.47	1.63	1.53
1	A	986	ILE	C-N	-7.47	1.24	1.33
7	I	87	GLN	CD-NE2	7.46	1.49	1.33
1	A	193	ASP	CB-CG	7.46	1.70	1.52
7	I	97	MET	N-CA	-7.46	1.37	1.46
2	B	108	VAL	CB-CG2	7.46	1.77	1.52
1	A	1054	LEU	N-CA	7.46	1.55	1.46
3	C	241	ASP	CA-CB	7.46	1.66	1.53
1	A	275	SER	CA-C	7.46	1.62	1.52
1	A	990	VAL	CB-CG1	-7.46	1.27	1.52
1	A	1042	PHE	C-N	-7.46	1.23	1.33
2	B	1148	LYS	C-O	-7.46	1.14	1.24
5	F	134	ILE	CA-C	-7.46	1.43	1.52
2	B	788	ARG	CA-C	7.46	1.63	1.53
6	H	126	GLU	CG-CD	7.46	1.70	1.52
10	L	70	ARG	CA-CB	-7.46	1.38	1.53
4	E	20	LYS	CB-CG	7.46	1.74	1.52
1	A	169	ASN	C-O	7.45	1.33	1.23
1	A	491	VAL	C-O	-7.45	1.15	1.24
1	A	1125	ALA	CA-C	7.45	1.63	1.52
2	B	639	ILE	CB-CG2	7.45	1.77	1.52
2	B	1008	PRO	N-CA	-7.45	1.38	1.47
3	C	166	GLU	C-N	-7.45	1.24	1.33
6	H	124	ARG	CA-C	7.45	1.60	1.52
1	A	882	SER	C-O	-7.45	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	49	ASP	N-CA	-7.45	1.36	1.46
2	B	1189	ILE	CB-CG1	7.45	1.68	1.53
3	C	124	LEU	CG-CD2	7.45	1.77	1.52
9	K	8	GLU	CA-C	7.45	1.62	1.52
1	A	1450	LEU	CA-CB	7.45	1.68	1.53
1	A	24	PRO	CB-CG	7.45	1.86	1.49
1	A	1214	GLU	CG-CD	7.45	1.70	1.52
2	B	497	ARG	CA-CB	-7.45	1.41	1.53
2	B	1156	ASP	N-CA	7.45	1.55	1.46
1	A	986	ILE	C-O	-7.44	1.16	1.24
1	A	814	PHE	CD2-CE2	7.44	1.60	1.38
2	B	1211	ASN	CA-C	7.44	1.64	1.52
8	J	6	ARG	CD-NE	7.44	1.56	1.46
1	A	873	MET	C-N	-7.44	1.23	1.33
1	A	1162	VAL	CB-CG1	7.44	1.77	1.52
2	B	939	THR	C-O	-7.44	1.15	1.24
8	J	18	TRP	CG-CD2	-7.44	1.30	1.43
1	A	357	PRO	CA-CB	-7.44	1.41	1.53
1	A	1194	ARG	C-O	-7.44	1.15	1.23
4	E	111	VAL	N-CA	7.44	1.54	1.46
1	A	286	HIS	CA-CB	7.43	1.66	1.53
2	B	252	SER	C-O	-7.43	1.15	1.24
2	B	980	PHE	CE1-CZ	7.43	1.60	1.38
3	C	127	ARG	CA-CB	-7.43	1.42	1.53
7	I	6	PHE	CE1-CZ	-7.43	1.16	1.38
1	A	1242	VAL	N-CA	-7.43	1.36	1.46
1	A	775	ILE	CA-C	-7.43	1.43	1.52
1	A	943	LEU	CA-C	-7.43	1.42	1.52
2	B	1093	GLN	C-N	7.43	1.43	1.33
1	A	165	GLY	N-CA	7.43	1.56	1.45
1	A	17	VAL	CA-C	-7.42	1.43	1.52
1	A	1034	GLU	CA-CB	-7.42	1.42	1.53
2	B	540	SER	CA-CB	7.42	1.66	1.53
4	E	52	ARG	N-CA	7.42	1.58	1.46
4	E	180	ARG	CB-CG	7.42	1.74	1.52
9	K	79	GLU	CG-CD	7.42	1.70	1.52
1	A	1072	ILE	C-N	-7.42	1.22	1.33
2	B	369	GLY	CA-C	7.42	1.62	1.51
2	B	823	ALA	CA-CB	-7.42	1.42	1.53
9	K	8	GLU	N-CA	7.42	1.55	1.46
1	A	1025	ARG	NE-CZ	-7.42	1.24	1.33
2	B	226	PHE	CA-C	-7.42	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1155	SER	CB-OG	7.42	1.56	1.42
5	F	76	LYS	CE-NZ	7.42	1.71	1.49
9	K	17	SER	CA-C	-7.42	1.43	1.52
1	A	298	PHE	N-CA	7.42	1.56	1.46
1	A	303	TYR	C-O	-7.42	1.15	1.24
1	A	385	ILE	N-CA	7.42	1.55	1.46
1	A	953	ASN	CG-ND2	-7.42	1.17	1.33
1	A	1373	ASP	CA-CB	-7.42	1.41	1.53
1	A	391	LEU	C-O	7.42	1.32	1.24
2	B	217	ARG	CD-NE	-7.42	1.35	1.46
2	B	174	LEU	CA-C	-7.41	1.43	1.52
2	B	731	VAL	C-O	7.41	1.32	1.24
1	A	510	GLN	CG-CD	-7.41	1.33	1.52
2	B	277	LYS	N-CA	-7.41	1.36	1.46
2	B	417	PHE	CA-CB	-7.41	1.40	1.53
6	H	19	ARG	N-CA	7.41	1.55	1.46
7	I	91	ARG	C-O	-7.41	1.14	1.23
2	B	491	THR	CA-C	-7.41	1.43	1.52
2	B	711	GLU	CG-CD	7.41	1.70	1.52
5	F	125	LEU	CG-CD1	-7.41	1.28	1.52
9	K	78	THR	N-CA	7.41	1.55	1.46
10	L	45	ALA	C-O	7.41	1.33	1.24
1	A	441	PRO	C-O	-7.40	1.15	1.23
1	A	1225	PHE	CD1-CE1	7.40	1.60	1.38
1	A	1159	ARG	NE-CZ	7.40	1.41	1.33
4	E	169	ARG	CB-CG	-7.40	1.30	1.52
1	A	148	CYS	CA-CB	7.40	1.62	1.52
1	A	909	ASP	CG-OD1	7.40	1.39	1.25
1	A	1300	LYS	C-O	7.40	1.32	1.23
9	K	4	PRO	CG-CD	7.40	1.75	1.50
1	A	43	GLU	C-N	7.40	1.44	1.33
1	A	86	LEU	N-CA	7.40	1.55	1.46
1	A	114	LEU	CG-CD1	-7.40	1.28	1.52
1	A	914	GLU	C-N	7.40	1.44	1.33
1	A	1282	VAL	CB-CG2	7.40	1.76	1.52
1	A	463	ILE	C-O	7.40	1.33	1.24
1	A	358	ASN	C-O	-7.39	1.13	1.24
2	B	354	ASP	CA-C	7.39	1.62	1.52
3	C	192	TRP	N-CA	-7.39	1.36	1.45
2	B	572	HIS	CA-CB	7.39	1.65	1.53
7	I	14	LEU	CA-CB	7.39	1.65	1.53
8	J	30	LEU	CG-CD2	7.39	1.76	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	I	37	GLU	CA-C	-7.39	1.42	1.53
7	I	8	ARG	NE-CZ	7.39	1.41	1.33
1	A	618	GLU	CD-OE1	7.39	1.39	1.25
3	C	40	GLU	CA-C	7.38	1.62	1.52
3	C	250	THR	CB-OG1	7.38	1.55	1.43
9	K	14	GLU	C-O	7.38	1.33	1.23
3	C	264	GLN	N-CA	-7.38	1.36	1.46
2	B	326	ASP	CA-C	7.38	1.61	1.52
10	L	27	LEU	C-O	7.38	1.33	1.24
2	B	614	SER	CA-C	7.38	1.61	1.52
1	A	831	THR	CA-CB	-7.38	1.41	1.53
2	B	353	LYS	N-CA	7.37	1.55	1.46
2	B	1147	LEU	C-N	-7.37	1.23	1.34
1	A	718	VAL	CB-CG1	-7.37	1.28	1.52
1	A	1123	GLY	CA-C	7.37	1.62	1.51
2	B	181	LEU	N-CA	-7.37	1.36	1.46
1	A	303	TYR	CG-CD2	-7.37	1.23	1.39
3	C	190	ASP	N-CA	7.37	1.55	1.46
4	E	2	ASP	CB-CG	7.37	1.70	1.52
1	A	843	LYS	CD-CE	7.37	1.74	1.52
1	A	1347	ALA	CA-CB	-7.37	1.41	1.53
2	B	487	THR	C-O	-7.37	1.14	1.23
2	B	1061	GLU	CG-CD	7.37	1.70	1.52
10	L	69	ALA	CA-C	-7.37	1.43	1.53
1	A	1014	ALA	N-CA	-7.36	1.37	1.46
5	F	112	GLU	CG-CD	7.36	1.70	1.52
2	B	874	PHE	CD1-CE1	-7.36	1.16	1.38
2	B	1050	ILE	C-N	-7.36	1.23	1.33
1	A	363	GLN	CA-C	-7.36	1.42	1.53
2	B	1128	LEU	N-CA	7.36	1.55	1.46
4	E	102	GLU	CG-CD	7.36	1.70	1.52
1	A	556	TRP	CB-CG	-7.36	1.27	1.50
1	A	1223	ASP	C-O	-7.36	1.14	1.24
2	B	1133	MET	CG-SD	7.36	1.99	1.80
1	A	1353	TYR	C-O	-7.36	1.15	1.24
4	E	149	LEU	CG-CD1	-7.36	1.28	1.52
7	I	117	LYS	CA-C	7.36	1.62	1.52
1	A	571	LEU	CG-CD1	-7.35	1.28	1.52
2	B	965	LYS	N-CA	-7.35	1.36	1.46
9	K	40	HIS	CA-CB	7.35	1.65	1.53
9	K	75	ILE	CB-CG1	7.35	1.68	1.53
1	A	109	HIS	CB-CG	7.35	1.60	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	942	PHE	N-CA	7.35	1.55	1.46
2	B	165	VAL	CA-CB	7.35	1.64	1.54
2	B	875	GLU	CG-CD	7.35	1.70	1.52
2	B	880	THR	N-CA	7.34	1.58	1.47
3	C	253	LYS	CA-CB	7.34	1.65	1.53
4	E	143	ASN	C-O	-7.34	1.15	1.24
1	A	1080	THR	C-O	7.34	1.33	1.24
10	L	48	CYS	C-N	7.34	1.44	1.33
1	A	408	ASP	C-O	7.34	1.33	1.24
1	A	515	GLN	C-O	7.34	1.32	1.24
1	A	808	LEU	CG-CD2	-7.34	1.28	1.52
7	I	24	ARG	CZ-NH2	-7.34	1.24	1.33
1	A	1194	ARG	CZ-NH2	7.34	1.43	1.33
7	I	75	CYS	CB-SG	-7.34	1.57	1.81
2	B	377	PHE	CB-CG	-7.33	1.33	1.50
1	A	954	TRP	NE1-CE2	-7.33	1.29	1.37
2	B	406	LEU	C-O	7.33	1.32	1.24
7	I	66	PRO	C-O	7.33	1.33	1.24
2	B	493	SER	CA-CB	-7.33	1.41	1.53
2	B	770	GLN	CA-C	-7.33	1.42	1.52
6	H	118	PHE	CA-CB	7.33	1.62	1.53
2	B	289	LEU	C-N	-7.33	1.22	1.33
2	B	478	GLY	N-CA	7.33	1.55	1.45
7	I	22	ASN	C-N	7.33	1.43	1.33
1	A	577	ILE	CA-CB	-7.33	1.45	1.54
2	B	567	GLU	CA-CB	7.33	1.65	1.53
2	B	574	SER	C-N	-7.33	1.24	1.34
1	A	458	HIS	CD2-NE2	-7.32	1.29	1.37
3	C	19	ASP	CG-OD2	7.32	1.39	1.25
4	E	82	PHE	N-CA	7.32	1.54	1.45
1	A	839	ARG	CZ-NH2	7.32	1.43	1.33
1	A	926	GLN	C-O	-7.32	1.15	1.24
1	A	977	LYS	CG-CD	7.32	1.74	1.52
1	A	417	TYR	CB-CG	7.32	1.67	1.51
1	A	496	GLU	CD-OE2	7.32	1.39	1.25
2	B	466	TRP	CE3-CZ3	-7.32	1.16	1.38
1	A	466	SER	N-CA	7.31	1.54	1.46
1	A	1298	TYR	C-O	7.31	1.32	1.23
2	B	164	LYS	CG-CD	7.31	1.74	1.52
1	A	1060	PRO	CA-C	-7.31	1.43	1.52
2	B	778	MET	C-O	-7.31	1.14	1.24
6	H	63	LEU	CG-CD2	7.31	1.76	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1102	LYS	C-N	7.31	1.43	1.33
10	L	35	SER	CA-C	7.31	1.63	1.53
1	A	1028	THR	CB-OG1	7.30	1.55	1.43
4	E	180	ARG	CD-NE	7.30	1.56	1.46
4	E	94	LYS	C-O	-7.30	1.14	1.24
1	A	143	LYS	CE-NZ	7.30	1.71	1.49
1	A	1001	ARG	CD-NE	-7.30	1.36	1.46
1	A	1033	GLN	CD-NE2	7.30	1.48	1.33
2	B	319	GLU	CB-CG	7.30	1.74	1.52
2	B	370	PHE	CD2-CE2	7.30	1.60	1.38
3	C	53	THR	CA-C	7.30	1.61	1.52
4	E	212	ARG	C-O	-7.30	1.14	1.23
1	A	160	GLN	CB-CG	7.30	1.74	1.52
2	B	203	PHE	C-N	7.30	1.42	1.33
2	B	1129	ARG	N-CA	-7.30	1.34	1.46
3	C	143	LEU	CB-CG	-7.30	1.38	1.53
5	F	92	ARG	CG-CD	-7.30	1.30	1.52
8	J	12	LYS	CA-CB	-7.30	1.41	1.53
1	A	443	LEU	CG-CD1	-7.29	1.28	1.52
8	J	47	ARG	CG-CD	7.29	1.74	1.52
3	C	14	SER	CA-C	-7.29	1.43	1.52
1	A	175	ARG	CZ-NH1	7.29	1.43	1.32
1	A	796	SER	CB-OG	-7.29	1.27	1.42
1	A	465	TYR	CG-CD2	-7.29	1.24	1.39
1	A	931	GLU	N-CA	7.29	1.55	1.46
1	A	1163	ILE	N-CA	7.29	1.51	1.46
10	L	57	LEU	CA-C	7.29	1.62	1.52
2	B	293	PRO	C-O	7.29	1.31	1.23
3	C	149	LYS	C-N	7.29	1.43	1.33
9	K	1	MET	CA-CB	7.29	1.68	1.53
1	A	1023	ARG	NE-CZ	-7.29	1.25	1.33
2	B	275	TYR	CA-C	-7.29	1.44	1.52
2	B	626	ILE	CA-C	7.29	1.61	1.52
2	B	678	GLU	CD-OE1	7.28	1.39	1.25
3	C	148	ARG	CZ-NH1	7.28	1.43	1.32
3	C	152	GLU	CD-OE1	7.28	1.39	1.25
4	E	55	ARG	CZ-NH1	-7.28	1.22	1.32
6	H	97	MET	CA-CB	-7.28	1.42	1.53
2	B	461	LEU	C-N	-7.28	1.24	1.33
2	B	905	VAL	C-O	7.28	1.32	1.23
1	A	630	ILE	C-O	7.28	1.33	1.24
1	A	1145	SER	N-CA	7.28	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	692	TYR	C-O	-7.28	1.15	1.23
8	J	10	CYS	CA-C	7.28	1.62	1.52
1	A	672	ASP	C-O	-7.28	1.14	1.24
2	B	660	LYS	CD-CE	-7.28	1.30	1.52
1	A	1107	VAL	N-CA	-7.28	1.37	1.46
2	B	24	PRO	C-O	7.28	1.31	1.23
2	B	99	LYS	CE-NZ	7.28	1.71	1.49
2	B	1207	LEU	C-O	7.28	1.33	1.24
3	C	141	GLY	CA-C	7.27	1.62	1.51
9	K	16	GLU	CD-OE2	7.27	1.39	1.25
1	A	839	ARG	CD-NE	7.27	1.56	1.46
1	A	1410	PHE	CD1-CE1	-7.27	1.16	1.38
2	B	522	VAL	CA-C	7.27	1.61	1.52
1	A	62	ASP	CA-CB	7.27	1.65	1.53
1	A	704	ALA	CA-CB	-7.27	1.41	1.53
2	B	115	GLN	CD-OE1	7.27	1.37	1.23
6	H	57	VAL	CB-CG1	-7.27	1.28	1.52
1	A	454	SER	CA-CB	-7.27	1.41	1.53
1	A	1092	LYS	CA-CB	7.27	1.68	1.53
2	B	1041	GLU	C-N	7.27	1.38	1.33
6	H	129	TYR	CG-CD2	7.27	1.54	1.39
1	A	1293	SER	CA-C	-7.27	1.43	1.52
7	I	11	ASN	C-O	-7.27	1.13	1.23
1	A	1239	ARG	CG-CD	7.26	1.74	1.52
1	A	1308	THR	C-O	-7.26	1.15	1.23
2	B	748	ILE	C-O	7.26	1.33	1.24
2	B	964	VAL	C-N	-7.26	1.23	1.33
1	A	681	GLU	CA-CB	7.26	1.65	1.53
2	B	339	THR	C-N	-7.26	1.23	1.33
1	A	68	GLN	C-O	7.26	1.33	1.23
1	A	96	ILE	N-CA	7.26	1.55	1.46
1	A	1316	VAL	C-O	7.26	1.33	1.24
1	A	1445	ILE	CB-CG2	7.26	1.76	1.52
4	E	9	ILE	CA-C	-7.26	1.42	1.52
1	A	884	ASP	C-O	-7.26	1.15	1.23
2	B	188	ASP	CA-C	7.26	1.62	1.52
2	B	461	LEU	CA-C	-7.26	1.42	1.52
3	C	133	ILE	CA-C	-7.26	1.44	1.52
1	A	1295	THR	CA-C	-7.25	1.42	1.52
9	K	111	LEU	CG-CD2	7.25	1.76	1.52
1	A	155	GLU	CG-CD	7.25	1.70	1.52
1	A	822	GLU	CD-OE2	7.25	1.39	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	F	78	GLN	CB-CG	7.25	1.74	1.52
2	B	495	LEU	CA-CB	-7.25	1.41	1.53
9	K	68	PHE	CB-CG	-7.25	1.33	1.50
1	A	6	TYR	N-CA	-7.25	1.37	1.46
4	E	40	GLU	N-CA	7.25	1.55	1.46
7	I	83	ASN	CG-OD1	7.25	1.37	1.23
1	A	391	LEU	CA-C	7.25	1.62	1.52
1	A	433	GLU	N-CA	-7.25	1.37	1.46
2	B	500	THR	C-O	-7.25	1.16	1.24
1	A	434	ARG	CA-C	-7.25	1.43	1.52
3	C	251	LEU	CG-CD2	-7.25	1.28	1.52
1	A	1116	LEU	C-O	-7.24	1.15	1.24
2	B	1137	CYS	N-CA	-7.24	1.37	1.46
5	F	136	ARG	CB-CG	-7.24	1.30	1.52
7	I	87	GLN	CA-CB	7.24	1.65	1.53
1	A	326	ARG	CD-NE	7.24	1.56	1.46
1	A	95	PHE	CD1-CE1	7.24	1.60	1.38
3	C	111	THR	CA-CB	7.24	1.63	1.53
6	H	44	VAL	CA-CB	7.24	1.62	1.54
8	J	44	TYR	CA-C	-7.24	1.42	1.52
1	A	175	ARG	C-O	7.24	1.32	1.23
2	B	282	ILE	C-O	-7.24	1.14	1.24
3	C	97	VAL	C-N	-7.24	1.24	1.33
6	H	103	LYS	CA-CB	7.24	1.65	1.53
1	A	1157	ASP	C-O	7.24	1.32	1.24
1	A	512	VAL	C-O	-7.24	1.16	1.24
9	K	16	GLU	CD-OE1	7.24	1.39	1.25
2	B	191	LYS	CG-CD	7.23	1.74	1.52
3	C	128	ASN	C-O	-7.23	1.14	1.24
1	A	1034	GLU	N-CA	-7.23	1.37	1.46
6	H	134	ASN	CA-C	-7.23	1.43	1.52
2	B	810	GLU	C-N	-7.23	1.23	1.33
1	A	1211	GLN	CB-CG	7.23	1.74	1.52
2	B	550	ASP	C-O	7.23	1.34	1.23
2	B	327	ARG	CZ-NH1	7.23	1.42	1.32
1	A	86	LEU	C-O	7.22	1.32	1.23
6	H	20	TYR	C-O	7.22	1.33	1.23
10	L	47	ARG	N-CA	7.22	1.55	1.46
9	K	53	ASP	CA-CB	7.22	1.62	1.53
2	B	303	TYR	N-CA	7.22	1.56	1.46
1	A	1100	ARG	CD-NE	-7.22	1.36	1.46
4	E	31	THR	CB-CG2	7.22	1.76	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	K	20	LYS	CD-CE	7.22	1.74	1.52
1	A	759	ALA	N-CA	-7.22	1.37	1.46
2	B	97	VAL	CB-CG1	-7.22	1.28	1.52
2	B	260	GLY	C-O	7.22	1.33	1.23
2	B	1081	LEU	C-O	-7.22	1.15	1.24
2	B	99	LYS	CD-CE	7.21	1.74	1.52
2	B	293	PRO	CA-C	7.21	1.62	1.52
5	F	108	PHE	CE2-CZ	7.21	1.60	1.38
5	F	145	ASP	CB-CG	-7.21	1.34	1.52
9	K	92	ASN	N-CA	7.21	1.54	1.46
1	A	228	PHE	CE2-CZ	-7.21	1.17	1.38
1	A	895	LYS	C-N	-7.21	1.23	1.33
4	E	164	LEU	C-O	-7.21	1.15	1.24
7	I	29	CYS	N-CA	7.21	1.54	1.45
1	A	726	ARG	CA-CB	-7.21	1.42	1.53
2	B	451	LYS	CD-CE	7.21	1.74	1.52
4	E	106	GLN	CA-C	7.21	1.62	1.52
6	H	104	PHE	CG-CD2	7.21	1.53	1.38
1	A	673	GLY	N-CA	7.21	1.51	1.44
1	A	940	ARG	CZ-NH2	-7.21	1.24	1.33
2	B	935	ARG	CA-C	-7.21	1.43	1.52
3	C	32	SER	C-N	7.21	1.44	1.33
2	B	775	LYS	CA-C	-7.21	1.42	1.52
2	B	849	GLY	N-CA	7.20	1.55	1.45
2	B	1024	ALA	CA-C	-7.20	1.43	1.52
9	K	5	ASP	CG-OD2	7.20	1.39	1.25
1	A	219	PHE	CD2-CE2	-7.20	1.17	1.38
1	A	33	ALA	C-O	-7.20	1.15	1.23
2	B	261	ARG	N-CA	7.20	1.55	1.45
2	B	512	ARG	C-O	7.20	1.33	1.24
3	C	56	THR	CA-C	-7.20	1.43	1.52
6	H	92	ASP	CA-CB	7.20	1.62	1.53
1	A	737	LEU	N-CA	-7.20	1.37	1.45
2	B	1104	HIS	CA-CB	7.20	1.65	1.53
10	L	34	CYS	CA-C	-7.20	1.41	1.52
3	C	89	GLU	CA-CB	7.20	1.63	1.53
1	A	826	ASP	CA-C	-7.19	1.43	1.52
2	B	800	GLN	CA-C	-7.19	1.43	1.52
3	C	19	ASP	CA-C	-7.19	1.43	1.52
1	A	583	PRO	N-CD	-7.19	1.37	1.47
1	A	780	VAL	CA-CB	-7.19	1.45	1.53
7	I	95	THR	CB-CG2	-7.19	1.28	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	241	ASP	CG-OD1	7.19	1.39	1.25
1	A	577	ILE	CA-C	7.19	1.62	1.52
1	A	1017	LEU	N-CA	-7.19	1.37	1.46
3	C	187	LYS	CA-C	-7.19	1.43	1.53
1	A	1058	VAL	CA-C	-7.18	1.44	1.52
2	B	641	GLU	CD-OE2	7.18	1.39	1.25
9	K	46	ILE	C-N	-7.18	1.23	1.33
2	B	373	ARG	CD-NE	7.18	1.56	1.46
1	A	382	PRO	CA-CB	-7.18	1.41	1.53
1	A	1021	LEU	C-N	-7.18	1.25	1.33
1	A	1125	ALA	C-O	-7.18	1.14	1.24
2	B	318	VAL	CA-CB	-7.18	1.45	1.54
2	B	502	ILE	CB-CG2	7.18	1.76	1.52
4	E	132	ILE	C-O	-7.18	1.17	1.24
8	J	53	HIS	CB-CG	-7.18	1.40	1.50
1	A	279	LEU	CG-CD2	7.18	1.76	1.52
1	A	551	TYR	C-N	7.18	1.43	1.33
1	A	961	ARG	CD-NE	7.18	1.56	1.46
1	A	1176	LEU	CG-CD2	7.18	1.76	1.52
2	B	271	ALA	CA-CB	-7.18	1.35	1.54
2	B	383	ASN	CB-CG	7.18	1.70	1.52
1	A	438	ASP	C-N	-7.17	1.23	1.33
1	A	947	PHE	C-N	-7.17	1.23	1.33
2	B	975	GLN	C-N	-7.17	1.25	1.33
3	C	54	ASN	N-CA	7.17	1.55	1.46
2	B	393	LYS	CD-CE	7.17	1.74	1.52
2	B	856	PHE	CD2-CE2	-7.17	1.17	1.38
3	C	93	ASP	N-CA	-7.17	1.36	1.46
8	J	6	ARG	NE-CZ	-7.17	1.25	1.33
2	B	131	ASP	CA-CB	7.17	1.65	1.53
8	J	43	ARG	CA-CB	-7.17	1.42	1.53
1	A	24	PRO	CG-CD	-7.17	1.26	1.50
1	A	1377	THR	CB-OG1	-7.17	1.32	1.43
1	A	1025	ARG	CZ-NH2	7.17	1.42	1.33
3	C	16	ASP	C-O	-7.17	1.14	1.24
5	F	114	GLU	C-N	7.17	1.44	1.33
2	B	459	TYR	CG-CD2	7.16	1.54	1.39
3	C	7	GLN	CB-CG	7.16	1.74	1.52
4	E	164	LEU	C-N	-7.16	1.24	1.33
1	A	1214	GLU	CA-CB	7.16	1.65	1.53
2	B	905	VAL	CB-CG1	-7.16	1.28	1.52
1	A	1191	TRP	N-CA	7.16	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	910	PRO	C-O	-7.16	1.15	1.24
1	A	1017	LEU	CG-CD1	-7.16	1.28	1.52
2	B	319	GLU	CG-CD	7.16	1.70	1.52
1	A	1092	LYS	CA-C	7.16	1.68	1.52
2	B	743	ILE	CA-CB	-7.16	1.45	1.54
4	E	205	SER	C-O	-7.16	1.14	1.24
1	A	131	SER	N-CA	-7.15	1.36	1.46
2	B	323	VAL	CA-CB	-7.15	1.42	1.54
1	A	1327	ILE	CA-CB	7.15	1.64	1.54
1	A	529	CYS	CA-C	-7.15	1.43	1.52
1	A	291	GLU	CD-OE2	7.15	1.39	1.25
1	A	973	ILE	C-N	7.15	1.43	1.33
2	B	46	GLN	CG-CD	-7.15	1.34	1.52
8	J	24	LEU	CB-CG	-7.15	1.39	1.53
1	A	147	VAL	CB-CG1	7.15	1.76	1.52
1	A	589	GLN	CD-OE1	7.15	1.37	1.23
2	B	229	ALA	N-CA	7.15	1.54	1.46
2	B	948	ILE	CA-C	-7.15	1.43	1.52
1	A	812	GLU	C-O	7.14	1.33	1.24
3	C	108	GLU	CD-OE2	7.14	1.39	1.25
7	I	91	ARG	N-CA	-7.14	1.37	1.47
1	A	786	HIS	ND1-CE1	7.14	1.39	1.32
1	A	619	LYS	C-N	-7.14	1.24	1.33
6	H	86	ASP	CA-CB	7.14	1.65	1.53
1	A	1422	ARG	C-O	-7.14	1.14	1.24
5	F	105	ALA	CA-C	-7.14	1.43	1.52
2	B	834	ASN	C-O	7.13	1.33	1.23
4	E	62	ALA	N-CA	-7.13	1.38	1.46
1	A	185	TRP	C-O	-7.13	1.14	1.23
10	L	42	ARG	CD-NE	7.13	1.56	1.46
3	C	222	LYS	N-CA	-7.13	1.36	1.45
4	E	103	LYS	CA-C	7.13	1.63	1.52
1	A	1025	ARG	CD-NE	-7.13	1.36	1.46
2	B	1020	ARG	CG-CD	-7.13	1.31	1.52
2	B	18	PHE	CG-CD1	7.13	1.53	1.38
2	B	67	SER	N-CA	7.13	1.54	1.46
2	B	103	ASN	C-N	7.13	1.42	1.33
7	I	42	LEU	CG-CD1	7.12	1.76	1.52
2	B	462	ALA	CA-CB	7.12	1.64	1.53
3	C	167	HIS	CB-CG	-7.12	1.40	1.50
5	F	100	GLN	CB-CG	7.12	1.73	1.52
5	F	108	PHE	C-N	-7.12	1.23	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	393	ARG	CD-NE	7.12	1.56	1.46
2	B	830	TYR	C-O	7.12	1.30	1.23
4	E	154	ILE	C-O	7.12	1.31	1.24
2	B	166	PHE	C-O	-7.12	1.14	1.23
2	B	866	TYR	CG-CD1	7.12	1.54	1.39
1	A	65	LEU	CA-C	7.12	1.62	1.52
1	A	133	LYS	CE-NZ	7.12	1.70	1.49
2	B	364	ILE	CA-C	-7.12	1.43	1.52
2	B	561	TRP	CE2-CZ2	7.12	1.54	1.39
3	C	20	PHE	CE2-CZ	7.12	1.60	1.38
7	I	2	THR	C-O	7.12	1.32	1.23
6	H	91	ASP	C-O	7.12	1.32	1.24
1	A	277	GLU	CD-OE2	7.12	1.38	1.25
2	B	35	SER	CA-C	-7.12	1.43	1.52
2	B	1086	PHE	CA-C	-7.12	1.43	1.52
4	E	208	TYR	CZ-OH	7.12	1.52	1.38
6	H	6	PHE	CA-C	-7.12	1.44	1.52
1	A	182	VAL	CA-C	7.11	1.61	1.52
1	A	521	MET	CG-SD	-7.11	1.62	1.80
1	A	933	TYR	CA-C	-7.11	1.43	1.52
2	B	555	ILE	C-N	-7.11	1.23	1.33
2	B	846	ILE	CA-C	7.11	1.61	1.52
2	B	1061	GLU	CA-CB	7.11	1.65	1.53
2	B	1024	ALA	C-O	7.11	1.32	1.24
9	K	68	PHE	N-CA	-7.11	1.37	1.46
1	A	1303	GLU	CD-OE2	7.11	1.38	1.25
2	B	1100	ASP	CA-CB	7.11	1.65	1.53
4	E	155	ARG	CG-CD	7.11	1.73	1.52
1	A	1199	ARG	CG-CD	-7.11	1.31	1.52
1	A	863	VAL	C-O	-7.11	1.14	1.24
1	A	1320	PRO	N-CA	-7.11	1.38	1.47
1	A	56	PRO	C-N	7.11	1.43	1.33
1	A	912	LEU	CA-CB	-7.11	1.41	1.53
2	B	57	TYR	CE1-CZ	-7.11	1.21	1.38
2	B	174	LEU	C-N	-7.11	1.23	1.33
2	B	935	ARG	CB-CG	7.10	1.73	1.52
1	A	175	ARG	CG-CD	7.10	1.73	1.52
2	B	120	ARG	C-O	7.10	1.33	1.24
2	B	509	ALA	CA-CB	7.10	1.75	1.52
3	C	245	VAL	CB-CG1	7.10	1.75	1.52
10	L	68	GLU	CD-OE1	7.10	1.38	1.25
1	A	111	GLY	C-O	7.10	1.33	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	383	TYR	C-O	-7.10	1.14	1.24
1	A	1113	THR	C-N	-7.10	1.24	1.33
1	A	877	HIS	N-CA	-7.10	1.38	1.46
6	H	31	THR	N-CA	7.10	1.54	1.46
1	A	202	LEU	CG-CD2	7.09	1.75	1.52
1	A	663	SER	C-O	-7.09	1.15	1.24
2	B	537	LYS	CE-NZ	-7.09	1.28	1.49
9	K	58	PHE	CD2-CE2	-7.09	1.17	1.38
10	L	67	PHE	CA-CB	7.09	1.68	1.53
1	A	576	GLN	CB-CG	-7.09	1.31	1.52
10	L	30	ILE	CB-CG1	-7.09	1.39	1.53
2	B	189	LEU	CA-C	7.09	1.61	1.52
5	F	99	LEU	N-CA	-7.09	1.37	1.46
6	H	55	LEU	CA-C	-7.09	1.44	1.52
1	A	740	LEU	N-CA	-7.09	1.36	1.46
1	A	402	ALA	N-CA	7.09	1.55	1.46
2	B	355	ILE	C-N	-7.09	1.24	1.34
2	B	879	ARG	CZ-NH1	7.09	1.42	1.32
9	K	104	ASN	CA-CB	-7.08	1.41	1.53
1	A	148	CYS	C-O	-7.08	1.14	1.23
1	A	1320	PRO	C-O	-7.08	1.15	1.23
2	B	611	PRO	CB-CG	-7.08	1.14	1.49
2	B	744	HIS	CA-C	-7.08	1.45	1.53
2	B	1224	PHE	CA-C	7.08	1.67	1.52
8	J	60	PHE	CE1-CZ	-7.08	1.17	1.38
2	B	187	SER	CA-C	7.08	1.62	1.52
1	A	461	LYS	CD-CE	7.08	1.73	1.52
1	A	520	CYS	N-CA	-7.08	1.36	1.46
4	E	54	GLN	CA-CB	7.08	1.63	1.53
1	A	1100	ARG	CA-CB	7.08	1.64	1.53
1	A	1051	ALA	C-O	-7.08	1.15	1.24
2	B	866	TYR	CD1-CE1	7.08	1.59	1.38
1	A	1162	VAL	CA-CB	-7.07	1.46	1.54
2	B	1043	ASP	CG-OD2	7.07	1.38	1.25
2	B	1134	GLU	CA-CB	-7.07	1.41	1.53
1	A	913	LEU	CG-CD2	-7.07	1.29	1.52
1	A	180	LYS	CB-CG	7.07	1.73	1.52
1	A	474	VAL	C-N	-7.07	1.25	1.33
2	B	282	ILE	CA-C	-7.07	1.41	1.52
2	B	1216	LEU	CA-C	-7.07	1.44	1.52
5	F	78	GLN	N-CA	7.07	1.55	1.46
1	A	37	PHE	CB-CG	7.07	1.67	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	112	LEU	CG-CD1	-7.07	1.29	1.52
2	B	227	LYS	CE-NZ	7.07	1.70	1.49
5	F	77	ASP	CG-OD2	7.07	1.38	1.25
2	B	171	PRO	CA-C	-7.07	1.44	1.52
2	B	241	ARG	CZ-NH1	7.07	1.42	1.32
2	B	815	ARG	CD-NE	-7.07	1.36	1.46
3	C	71	PRO	CB-CG	-7.07	1.14	1.49
7	I	30	ARG	CG-CD	7.07	1.73	1.52
1	A	1154	TYR	C-N	7.06	1.41	1.33
2	B	592	ASN	C-O	-7.06	1.15	1.24
4	E	184	VAL	C-N	-7.06	1.24	1.33
9	K	105	PHE	CE2-CZ	7.06	1.59	1.38
1	A	126	LEU	N-CA	-7.06	1.37	1.46
1	A	502	SER	CA-C	-7.06	1.43	1.52
2	B	984	HIS	C-N	-7.06	1.24	1.33
10	L	28	LYS	C-O	-7.06	1.15	1.24
1	A	415	LEU	C-O	7.06	1.32	1.24
2	B	996	ARG	CA-CB	-7.06	1.42	1.53
3	C	78	GLU	CD-OE2	7.06	1.38	1.25
6	H	98	TYR	CG-CD1	-7.06	1.24	1.39
2	B	1109	GLY	N-CA	7.05	1.54	1.44
9	K	39	ASP	CA-C	-7.05	1.43	1.52
9	K	103	THR	CA-CB	7.05	1.62	1.53
3	C	62	PHE	CD1-CE1	-7.05	1.17	1.38
3	C	183	TRP	N-CA	7.05	1.54	1.45
10	L	27	LEU	N-CA	7.05	1.55	1.46
6	H	14	GLU	CA-C	-7.05	1.43	1.52
1	A	932	GLU	CA-CB	7.05	1.64	1.53
4	E	6	GLU	CA-CB	7.05	1.64	1.53
7	I	79	HIS	CA-CB	7.05	1.65	1.53
1	A	1018	PHE	N-CA	7.05	1.54	1.46
1	A	1096	SER	CB-OG	7.05	1.56	1.42
1	A	216	VAL	CA-CB	-7.04	1.46	1.54
2	B	117	ALA	C-N	-7.04	1.24	1.33
2	B	1129	ARG	CZ-NH2	7.04	1.42	1.33
3	C	230	MET	CB-CG	7.04	1.73	1.52
8	J	35	ALA	CA-CB	7.04	1.64	1.53
1	A	953	ASN	C-N	-7.04	1.25	1.33
2	B	733	HIS	CB-CG	7.04	1.60	1.50
4	E	43	LYS	C-N	7.04	1.43	1.33
7	I	107	SER	CA-CB	-7.04	1.43	1.53
1	A	614	PHE	CA-C	7.04	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	20	LYS	CD-CE	7.04	1.73	1.52
8	J	41	LEU	CG-CD2	-7.04	1.29	1.52
1	A	1022	LEU	C-N	-7.04	1.24	1.34
2	B	199	MET	CG-SD	7.04	1.98	1.80
2	B	586	TRP	C-N	-7.04	1.22	1.33
3	C	98	VAL	C-O	-7.04	1.16	1.24
1	A	229	SER	CA-CB	-7.04	1.42	1.52
1	A	305	ASP	CA-C	7.04	1.67	1.52
1	A	458	HIS	CA-C	-7.04	1.44	1.52
2	B	203	PHE	CG-CD2	-7.04	1.24	1.38
2	B	261	ARG	C-O	7.04	1.33	1.23
2	B	1061	GLU	C-O	7.04	1.32	1.24
2	B	1096	ARG	CB-CG	-7.04	1.31	1.52
2	B	1211	ASN	C-O	7.04	1.35	1.24
3	C	114	TYR	CA-CB	-7.04	1.43	1.53
4	E	104	ASN	CG-OD1	7.04	1.36	1.23
4	E	177	ARG	CA-C	-7.04	1.44	1.52
6	H	57	VAL	N-CA	7.04	1.55	1.46
1	A	1267	MET	SD-CE	-7.03	1.61	1.79
2	B	629	ASP	CG-OD2	7.03	1.38	1.25
2	B	654	ARG	CZ-NH1	-7.03	1.23	1.32
2	B	480	SER	C-N	-7.03	1.24	1.33
1	A	112	LYS	CA-C	-7.03	1.44	1.52
1	A	1315	GLU	CA-C	-7.03	1.43	1.52
1	A	716	ASP	C-O	-7.03	1.15	1.24
4	E	194	GLU	CD-OE1	-7.03	1.11	1.25
6	H	113	ALA	CA-C	7.03	1.60	1.52
1	A	370	ILE	CA-CB	-7.02	1.44	1.54
1	A	386	ASP	CA-C	7.02	1.61	1.52
4	E	77	SER	N-CA	-7.02	1.35	1.46
2	B	31	TRP	CE3-CZ3	7.02	1.59	1.38
4	E	174	GLN	CA-C	-7.02	1.42	1.52
5	F	102	SER	CB-OG	7.02	1.56	1.42
1	A	959	ASN	CA-C	7.02	1.61	1.52
1	A	1225	PHE	C-O	-7.02	1.15	1.24
2	B	1110	PRO	CA-C	7.02	1.67	1.52
5	F	136	ARG	NE-CZ	-7.02	1.25	1.33
8	J	60	PHE	CB-CG	7.02	1.66	1.50
1	A	778	GLY	C-N	-7.02	1.23	1.33
2	B	579	ARG	CZ-NH2	-7.02	1.24	1.33
2	B	1103	ILE	CB-CG1	-7.02	1.39	1.53
6	H	129	TYR	CB-CG	7.02	1.67	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	I	98	VAL	CB-CG2	-7.02	1.29	1.52
2	B	734	HIS	CB-CG	7.02	1.59	1.50
6	H	37	LYS	C-O	7.02	1.33	1.23
2	B	1188	LYS	C-N	7.01	1.43	1.33
7	I	87	GLN	N-CA	-7.01	1.37	1.45
8	J	32	GLU	C-O	-7.01	1.15	1.24
9	K	72	LYS	CA-C	-7.01	1.44	1.52
2	B	110	HIS	CA-C	7.01	1.60	1.52
2	B	666	TYR	CB-CG	-7.01	1.36	1.51
6	H	85	GLY	N-CA	7.01	1.55	1.45
8	J	25	LEU	N-CA	-7.01	1.37	1.46
2	B	412	LEU	CA-C	-7.01	1.44	1.52
10	L	49	LYS	CE-NZ	7.01	1.70	1.49
1	A	1093	LYS	CB-CG	7.01	1.73	1.52
2	B	131	ASP	CB-CG	7.01	1.69	1.52
2	B	404	LYS	CB-CG	-7.01	1.31	1.52
3	C	66	ARG	N-CA	-7.01	1.38	1.46
3	C	70	ILE	N-CA	7.01	1.55	1.46
7	I	34	TYR	C-O	-7.01	1.15	1.23
1	A	468	PHE	C-N	-7.01	1.23	1.33
1	A	837	ILE	C-N	-7.01	1.25	1.33
1	A	1092	LYS	CG-CD	7.01	1.73	1.52
2	B	299	GLU	CA-C	-7.00	1.43	1.52
7	I	63	GLY	C-N	-7.00	1.23	1.33
7	I	91	ARG	CB-CG	7.00	1.73	1.52
2	B	268	THR	CA-C	-7.00	1.44	1.52
2	B	791	THR	CA-C	-7.00	1.43	1.52
3	C	222	LYS	CB-CG	7.00	1.73	1.52
4	E	125	PRO	CA-C	-7.00	1.46	1.52
2	B	248	SER	CA-C	7.00	1.62	1.52
6	H	118	PHE	CE1-CZ	-7.00	1.17	1.38
7	I	17	ARG	NE-CZ	7.00	1.40	1.33
3	C	101	LEU	C-N	7.00	1.43	1.33
2	B	1169	MET	SD-CE	7.00	1.97	1.79
3	C	18	VAL	N-CA	-7.00	1.37	1.46
2	B	89	GLU	CG-CD	7.00	1.69	1.52
2	B	322	PHE	CG-CD1	-7.00	1.24	1.38
2	B	766	ARG	CA-CB	-6.99	1.42	1.53
3	C	33	LEU	C-O	6.99	1.32	1.24
4	E	110	PHE	CG-CD2	-6.99	1.24	1.38
6	H	86	ASP	CA-C	6.99	1.62	1.52
9	K	5	ASP	C-O	6.99	1.32	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1022	LEU	CG-CD1	-6.99	1.29	1.52
2	B	479	VAL	C-N	-6.99	1.23	1.33
2	B	1182	CYS	C-O	6.99	1.33	1.23
9	K	32	VAL	CB-CG2	-6.99	1.29	1.52
10	L	41	SER	CA-C	6.99	1.62	1.52
2	B	1009	ASP	C-O	-6.99	1.14	1.24
1	A	164	ARG	CA-CB	-6.99	1.42	1.54
1	A	901	LEU	CA-C	6.99	1.62	1.52
1	A	1155	ASP	CA-CB	-6.99	1.44	1.53
1	A	1281	ARG	C-O	-6.99	1.15	1.23
4	E	168	TYR	CA-C	-6.99	1.43	1.52
9	K	56	VAL	C-N	-6.99	1.23	1.33
2	B	207	GLY	CA-C	6.98	1.61	1.51
2	B	1087	PHE	CE2-CZ	6.98	1.59	1.38
2	B	418	LYS	CA-C	-6.98	1.44	1.52
2	B	744	HIS	CG-CD2	-6.98	1.28	1.35
2	B	1001	PHE	CA-C	-6.98	1.44	1.52
3	C	62	PHE	CB-CG	6.98	1.66	1.50
6	H	146	ARG	CZ-NH2	6.98	1.42	1.33
7	I	95	THR	C-N	-6.98	1.23	1.33
1	A	302	THR	CB-CG2	6.98	1.75	1.52
1	A	1133	LEU	N-CA	-6.98	1.37	1.46
2	B	974	PRO	N-CA	-6.98	1.38	1.47
3	C	250	THR	C-O	-6.98	1.15	1.24
4	E	26	ARG	CA-CB	-6.98	1.40	1.53
6	H	129	TYR	CE1-CZ	6.98	1.55	1.38
7	I	29	CYS	CA-CB	-6.98	1.42	1.53
1	A	691	LEU	C-O	-6.98	1.15	1.24
3	C	122	SER	N-CA	6.98	1.54	1.45
1	A	465	TYR	N-CA	6.98	1.55	1.46
2	B	272	THR	N-CA	-6.98	1.38	1.46
5	F	153	VAL	C-N	6.98	1.43	1.33
6	H	124	ARG	CB-CG	-6.98	1.31	1.52
10	L	42	ARG	CA-C	6.98	1.61	1.52
1	A	935	GLN	C-N	-6.98	1.24	1.34
1	A	506	ALA	N-CA	6.97	1.54	1.46
1	A	1321	GLY	C-N	-6.97	1.26	1.33
2	B	347	LYS	CD-CE	6.97	1.73	1.52
3	C	245	VAL	CB-CG2	-6.97	1.29	1.52
7	I	101	PHE	CA-CB	-6.97	1.41	1.53
10	L	50	ASP	CA-C	6.97	1.62	1.52
2	B	1052	VAL	CA-CB	-6.97	1.44	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	60	PHE	C-O	-6.97	1.17	1.23
4	E	184	VAL	CA-CB	6.97	1.64	1.54
9	K	28	PRO	N-CA	-6.97	1.39	1.46
2	B	360	PHE	CA-CB	-6.97	1.43	1.53
3	C	28	ALA	N-CA	6.97	1.55	1.46
4	E	191	LYS	CB-CG	6.97	1.73	1.52
1	A	813	PHE	CG-CD1	-6.97	1.24	1.38
2	B	950	ASP	CA-C	6.97	1.61	1.52
2	B	1221	SER	N-CA	6.97	1.55	1.46
1	A	1426	GLU	C-O	6.97	1.32	1.24
2	B	137	TYR	CG-CD2	6.97	1.53	1.39
1	A	847	ASP	CA-C	-6.97	1.43	1.52
2	B	194	GLU	N-CA	6.97	1.54	1.46
2	B	946	ASN	CA-C	-6.97	1.44	1.52
2	B	963	PHE	CA-C	-6.97	1.44	1.52
2	B	166	PHE	CE1-CZ	6.96	1.59	1.38
2	B	869	SER	C-N	6.96	1.39	1.33
1	A	727	ASP	CA-C	6.96	1.61	1.52
2	B	509	ALA	N-CA	-6.96	1.33	1.46
4	E	37	LEU	CG-CD1	6.96	1.75	1.52
1	A	1134	ILE	CA-CB	6.96	1.63	1.54
1	A	1196	GLU	CD-OE2	6.96	1.38	1.25
1	A	1231	ASP	C-N	6.96	1.43	1.33
1	A	413	ILE	C-O	-6.96	1.16	1.24
1	A	1260	LEU	C-O	-6.96	1.16	1.24
1	A	730	GLY	C-N	-6.96	1.25	1.33
2	B	262	GLU	CA-CB	6.96	1.65	1.53
4	E	134	THR	CB-CG2	-6.96	1.29	1.52
7	I	6	PHE	CG-CD2	-6.96	1.24	1.38
7	I	118	ARG	CZ-NH2	6.96	1.42	1.33
4	E	113	GLN	CG-CD	6.96	1.69	1.52
1	A	544	ASP	CG-OD1	6.95	1.38	1.25
1	A	920	LEU	C-N	-6.95	1.23	1.33
1	A	1093	LYS	CA-C	6.95	1.64	1.52
2	B	30	SER	C-N	-6.95	1.24	1.33
2	B	191	LYS	CD-CE	6.95	1.73	1.52
2	B	842	ASN	CA-CB	6.95	1.62	1.53
2	B	915	THR	N-CA	6.95	1.54	1.45
4	E	208	TYR	CE1-CZ	-6.95	1.21	1.38
2	B	172	ILE	N-CA	-6.95	1.38	1.46
2	B	1094	ARG	C-N	-6.95	1.23	1.33
2	B	519	TRP	CD2-CE2	-6.95	1.29	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	593	GLU	CA-CB	6.95	1.65	1.53
2	B	961	LEU	C-O	-6.95	1.15	1.23
1	A	88	LYS	C-O	6.95	1.31	1.24
1	A	468	PHE	CD1-CE1	6.95	1.59	1.38
1	A	944	ARG	NE-CZ	-6.95	1.25	1.33
1	A	1053	PHE	N-CA	6.95	1.54	1.46
1	A	1098	VAL	N-CA	6.95	1.55	1.46
2	B	839	MET	CG-SD	6.95	1.98	1.80
8	J	6	ARG	N-CA	6.95	1.54	1.45
1	A	205	GLU	CA-CB	6.94	1.64	1.53
2	B	294	ASP	CG-OD2	6.94	1.38	1.25
2	B	994	TYR	CG-CD2	-6.94	1.24	1.39
1	A	202	LEU	CA-C	-6.94	1.44	1.52
1	A	231	PRO	N-CD	-6.94	1.38	1.47
1	A	760	GLN	CG-CD	6.94	1.69	1.52
1	A	1149	ALA	CA-C	6.94	1.61	1.52
2	B	549	THR	C-O	6.94	1.32	1.23
1	A	187	LYS	C-N	6.94	1.43	1.33
2	B	820	GLY	C-O	-6.94	1.14	1.23
3	C	118	LEU	CA-C	6.94	1.61	1.52
3	C	47	ASP	CG-OD2	6.94	1.38	1.25
7	I	65	ASP	CG-OD1	6.94	1.38	1.25
1	A	173	THR	CA-C	-6.93	1.44	1.52
2	B	235	SER	CA-C	-6.93	1.43	1.52
1	A	1078	GLN	CA-CB	6.93	1.62	1.53
1	A	1353	TYR	CA-C	-6.93	1.43	1.52
3	C	195	GLN	N-CA	6.93	1.54	1.46
2	B	899	ILE	CB-CG1	-6.93	1.39	1.53
4	E	79	TRP	CA-CB	6.93	1.69	1.53
1	A	17	VAL	CA-CB	-6.93	1.45	1.54
1	A	25	GLU	N-CA	-6.93	1.37	1.46
1	A	575	LYS	C-N	-6.93	1.24	1.34
2	B	756	ILE	CA-C	6.93	1.60	1.52
1	A	678	GLU	CD-OE2	6.93	1.38	1.25
1	A	710	LEU	C-O	6.93	1.32	1.24
4	E	170	LEU	CA-C	-6.93	1.43	1.52
8	J	5	VAL	N-CA	6.93	1.54	1.46
1	A	146	MET	C-O	-6.93	1.14	1.24
1	A	1101	LEU	CA-C	-6.93	1.43	1.52
6	H	46	LEU	CA-CB	-6.93	1.41	1.53
1	A	448	PRO	CB-CG	6.92	1.78	1.51
2	B	191	LYS	C-O	-6.92	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	782	LEU	CG-CD2	-6.92	1.29	1.52
6	H	100	THR	C-O	6.92	1.32	1.23
1	A	504	LEU	CG-CD1	-6.92	1.29	1.52
7	I	61	ASP	CA-CB	-6.92	1.41	1.53
1	A	581	ALA	N-CA	-6.92	1.37	1.46
7	I	101	PHE	CB-CG	-6.92	1.34	1.50
2	B	952	VAL	CA-C	-6.92	1.44	1.52
3	C	209	TYR	CD1-CE1	6.92	1.59	1.38
4	E	105	PHE	CG-CD1	6.92	1.53	1.38
1	A	452	LYS	CG-CD	6.92	1.73	1.52
1	A	693	VAL	N-CA	-6.92	1.38	1.46
1	A	977	LYS	CA-C	6.92	1.60	1.52
1	A	578	LEU	CA-C	-6.92	1.43	1.52
2	B	376	PHE	C-N	-6.92	1.23	1.33
2	B	746	SER	CA-CB	-6.91	1.41	1.53
2	B	859	TYR	CB-CG	-6.91	1.36	1.51
2	B	1083	ALA	C-O	6.91	1.33	1.23
3	C	220	ASP	CG-OD1	6.91	1.38	1.25
2	B	375	ALA	CA-C	6.91	1.61	1.52
3	C	31	ASN	CG-ND2	6.91	1.47	1.33
4	E	150	VAL	CB-CG2	-6.91	1.29	1.52
1	A	536	LEU	C-O	6.91	1.33	1.23
2	B	578	THR	N-CA	6.91	1.54	1.46
3	C	236	GLY	C-N	-6.91	1.24	1.33
2	B	582	VAL	CB-CG1	-6.91	1.29	1.52
3	C	16	ASP	CB-CG	6.91	1.69	1.52
1	A	741	ASN	CG-OD1	6.90	1.36	1.23
4	E	201	LYS	CA-CB	-6.90	1.41	1.53
1	A	368	LYS	C-N	-6.90	1.24	1.34
1	A	886	ILE	N-CA	6.90	1.55	1.46
1	A	1309	ASP	CA-CB	-6.90	1.44	1.53
1	A	1355	VAL	CA-C	-6.90	1.44	1.52
2	B	96	TYR	C-O	6.90	1.32	1.23
3	C	227	THR	C-N	-6.90	1.24	1.33
2	B	212	LEU	CG-CD2	6.90	1.75	1.52
7	I	90	GLN	C-O	-6.90	1.15	1.24
1	A	104	GLU	C-N	6.90	1.43	1.33
3	C	267	GLN	C-O	6.90	1.32	1.24
1	A	724	GLU	C-O	-6.89	1.15	1.24
2	B	176	SER	N-CA	-6.89	1.36	1.45
2	B	239	GLU	C-N	6.89	1.42	1.33
2	B	353	LYS	CA-CB	-6.89	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	F	128	LYS	CA-C	-6.89	1.43	1.53
1	A	234	MET	N-CA	-6.89	1.36	1.46
1	A	414	ASP	C-N	-6.89	1.24	1.33
1	A	1315	GLU	CD-OE2	6.89	1.38	1.25
2	B	338	GLY	CA-C	-6.89	1.42	1.51
1	A	1444	MET	CG-SD	-6.89	1.63	1.80
2	B	19	GLU	CG-CD	6.89	1.69	1.52
3	C	219	PHE	CE2-CZ	6.89	1.59	1.38
1	A	1096	SER	CA-CB	6.89	1.64	1.53
1	A	1411	GLU	CB-CG	6.89	1.73	1.52
2	B	182	SER	CA-CB	6.89	1.64	1.53
2	B	354	ASP	C-O	6.89	1.32	1.24
7	I	120	GLN	C-O	6.89	1.32	1.23
7	I	79	HIS	N-CA	6.89	1.55	1.46
2	B	567	GLU	CG-CD	6.89	1.69	1.52
9	K	53	ASP	N-CA	6.89	1.55	1.46
1	A	876	ALA	C-N	-6.88	1.25	1.33
1	A	1349	TYR	C-N	-6.88	1.24	1.34
1	A	1414	ALA	N-CA	-6.88	1.36	1.46
2	B	299	GLU	CB-CG	6.88	1.73	1.52
2	B	983	ARG	CD-NE	-6.88	1.36	1.46
1	A	180	LYS	N-CA	-6.88	1.37	1.46
1	A	1023	ARG	CA-CB	-6.88	1.42	1.53
1	A	1445	ILE	CA-CB	-6.88	1.45	1.54
2	B	376	PHE	CA-CB	6.88	1.64	1.53
2	B	615	MET	CG-SD	6.88	1.98	1.80
2	B	281	PRO	N-CA	-6.88	1.39	1.47
2	B	680	THR	CA-CB	-6.88	1.42	1.54
2	B	986	GLN	C-O	6.88	1.31	1.24
3	C	80	LEU	CG-CD1	-6.88	1.29	1.52
1	A	62	ASP	C-O	6.88	1.32	1.24
1	A	217	LYS	CB-CG	6.88	1.73	1.52
1	A	1314	SER	CA-C	-6.88	1.43	1.52
2	B	513	GLN	CD-NE2	6.88	1.47	1.33
4	E	136	ASN	CA-CB	-6.88	1.42	1.53
1	A	648	ASN	CA-C	-6.88	1.43	1.52
2	B	599	THR	C-O	-6.88	1.15	1.24
6	H	53	ASP	CA-C	6.88	1.61	1.52
6	H	115	TYR	CZ-OH	6.88	1.52	1.38
1	A	878	ILE	CB-CG1	-6.87	1.39	1.53
1	A	1228	TRP	N-CA	-6.87	1.38	1.46
1	A	1375	MET	C-O	-6.87	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1375	MET	SD-CE	-6.87	1.62	1.79
1	A	785	PRO	CA-C	-6.87	1.43	1.52
2	B	113	TYR	CZ-OH	6.87	1.52	1.38
2	B	785	TYR	CB-CG	-6.87	1.36	1.51
1	A	999	VAL	N-CA	-6.87	1.38	1.46
2	B	516	ASN	CG-ND2	-6.87	1.18	1.33
2	B	971	THR	CA-CB	-6.86	1.43	1.53
4	E	41	ASP	N-CA	6.86	1.54	1.46
4	E	128	PRO	CA-C	6.86	1.58	1.52
5	F	122	MET	C-O	-6.86	1.16	1.24
1	A	202	LEU	N-CA	6.86	1.54	1.46
6	H	116	TYR	CE2-CZ	6.86	1.54	1.38
1	A	954	TRP	CD2-CE2	-6.86	1.29	1.41
2	B	37	PHE	CG-CD2	6.86	1.53	1.38
2	B	394	ASP	CA-C	6.86	1.61	1.52
7	I	1	MET	CG-SD	6.86	1.97	1.80
1	A	393	ARG	CA-CB	-6.86	1.42	1.53
1	A	923	LEU	C-N	-6.86	1.23	1.33
1	A	1439	GLY	CA-C	6.86	1.61	1.51
6	H	133	ASN	CA-C	6.86	1.61	1.52
1	A	877	HIS	C-O	-6.85	1.14	1.24
2	B	167	ILE	CB-CG2	6.85	1.75	1.52
3	C	247	GLY	CA-C	-6.85	1.44	1.52
2	B	587	HIS	C-O	-6.85	1.15	1.24
3	C	117	ASP	C-N	6.85	1.43	1.33
1	A	649	ILE	N-CA	-6.85	1.37	1.46
1	A	919	ILE	C-N	-6.85	1.24	1.33
3	C	48	SER	N-CA	-6.85	1.37	1.46
6	H	105	GLU	CG-CD	6.85	1.69	1.52
3	C	231	ASN	CG-OD1	6.85	1.36	1.23
1	A	19	PHE	CD1-CE1	-6.84	1.18	1.38
1	A	374	LEU	C-N	-6.84	1.24	1.33
7	I	20	LYS	N-CA	-6.84	1.38	1.46
7	I	94	ASP	N-CA	6.84	1.55	1.46
9	K	86	ALA	C-N	-6.84	1.23	1.33
1	A	648	ASN	N-CA	6.84	1.54	1.46
2	B	770	GLN	CG-CD	-6.84	1.34	1.52
2	B	266	ALA	N-CA	6.84	1.55	1.46
2	B	348	ARG	C-O	-6.84	1.16	1.24
2	B	1204	PHE	CB-CG	6.84	1.66	1.50
6	H	33	GLN	CA-C	6.84	1.61	1.52
9	K	60	ALA	CA-C	-6.84	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	49	LYS	N-CA	6.84	1.54	1.46
1	A	1037	LEU	CB-CG	6.84	1.67	1.53
9	K	108	GLU	CA-CB	-6.84	1.41	1.53
1	A	607	ILE	CA-CB	6.84	1.64	1.54
2	B	707	PRO	CA-CB	-6.83	1.44	1.53
9	K	76	GLN	N-CA	6.83	1.54	1.46
1	A	984	LYS	C-O	-6.83	1.15	1.24
2	B	511	PRO	CA-C	-6.83	1.40	1.52
2	B	711	GLU	C-N	6.83	1.45	1.34
2	B	1168	LEU	C-O	-6.83	1.15	1.23
2	B	1150	ARG	CA-C	-6.83	1.43	1.52
3	C	101	LEU	N-CA	-6.83	1.38	1.46
1	A	844	ALA	N-CA	-6.83	1.37	1.46
9	K	24	ASP	C-O	-6.83	1.15	1.23
1	A	634	THR	CA-C	-6.83	1.44	1.52
2	B	551	PRO	C-O	6.83	1.33	1.24
2	B	601	ARG	CD-NE	6.83	1.55	1.46
2	B	237	VAL	N-CA	-6.83	1.38	1.46
2	B	587	HIS	CA-C	6.83	1.61	1.52
5	F	104	ASN	CG-ND2	6.83	1.47	1.33
7	I	72	ASP	C-N	6.82	1.42	1.33
4	E	95	THR	CB-CG2	6.82	1.75	1.52
2	B	1054	GLY	C-O	6.82	1.32	1.23
2	B	1171	VAL	C-O	6.82	1.30	1.24
3	C	209	TYR	CA-C	-6.82	1.43	1.52
1	A	639	PRO	C-O	6.82	1.32	1.24
2	B	482	VAL	C-N	-6.82	1.23	1.33
1	A	72	GLU	CA-CB	6.82	1.65	1.53
1	A	445	ASN	CG-OD1	6.82	1.36	1.23
2	B	327	ARG	N-CA	-6.82	1.37	1.46
2	B	1084	GLN	C-O	-6.82	1.15	1.23
4	E	188	LEU	C-O	6.82	1.33	1.24
1	A	430	TRP	CD2-CE3	-6.81	1.29	1.40
1	A	614	PHE	CG-CD1	-6.81	1.24	1.38
2	B	130	VAL	CB-CG2	-6.81	1.30	1.52
4	E	107	THR	C-O	-6.81	1.15	1.23
1	A	897	TYR	CA-C	-6.81	1.44	1.52
1	A	1443	VAL	CB-CG1	-6.81	1.30	1.52
1	A	140	THR	CA-CB	-6.81	1.42	1.53
2	B	936	ASP	N-CA	6.81	1.54	1.46
2	B	1048	THR	N-CA	-6.81	1.36	1.46
1	A	1094	VAL	CA-CB	-6.81	1.45	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	874	PHE	CD2-CE2	-6.81	1.18	1.38
4	E	72	PHE	CD2-CE2	-6.81	1.18	1.38
4	E	78	LEU	CA-C	-6.81	1.44	1.52
3	C	14	SER	N-CA	-6.81	1.38	1.46
6	H	13	SER	CA-CB	6.81	1.64	1.53
7	I	110	PHE	N-CA	-6.81	1.37	1.45
1	A	1005	GLU	CG-CD	6.80	1.69	1.52
2	B	49	ASP	CB-CG	6.80	1.69	1.52
2	B	629	ASP	CB-CG	6.80	1.69	1.52
2	B	763	GLN	CA-CB	6.80	1.64	1.53
4	E	74	ASP	CG-OD1	-6.80	1.12	1.25
1	A	489	LEU	CA-C	6.80	1.60	1.52
1	A	1113	THR	CB-OG1	-6.80	1.32	1.43
2	B	57	TYR	CG-CD1	-6.80	1.25	1.39
7	I	71	SER	C-N	6.80	1.42	1.33
7	I	92	ARG	CA-CB	6.80	1.69	1.53
1	A	990	VAL	C-O	-6.80	1.15	1.24
3	C	163	ILE	N-CA	6.80	1.53	1.46
5	F	142	SER	CA-CB	6.80	1.63	1.53
1	A	732	LEU	N-CA	-6.80	1.38	1.46
1	A	1012	ARG	CG-CD	6.80	1.72	1.52
1	A	1070	GLN	N-CA	-6.80	1.37	1.46
6	H	62	SER	CA-CB	6.80	1.65	1.53
2	B	620	ARG	CB-CG	6.79	1.72	1.52
2	B	1047	PHE	CA-C	6.79	1.62	1.53
10	L	30	ILE	CA-C	6.79	1.60	1.52
1	A	86	LEU	CG-CD1	-6.79	1.30	1.52
1	A	870	GLU	CD-OE2	6.79	1.38	1.25
2	B	392	ARG	CA-C	-6.79	1.43	1.52
6	H	21	ASN	CG-ND2	6.79	1.47	1.33
1	A	150	THR	N-CA	-6.79	1.37	1.46
2	B	124	TYR	CE2-CZ	-6.79	1.22	1.38
1	A	30	ILE	C-O	6.79	1.33	1.24
1	A	359	LEU	CG-CD2	-6.79	1.30	1.52
2	B	449	ASN	C-O	6.79	1.32	1.24
2	B	837	ASP	CA-CB	-6.79	1.43	1.53
1	A	295	LEU	C-N	6.79	1.42	1.33
2	B	280	ILE	CB-CG2	-6.79	1.30	1.52
2	B	1037	LEU	C-O	-6.79	1.16	1.24
2	B	1174	LYS	CA-CB	6.79	1.65	1.53
6	H	132	LEU	CB-CG	6.79	1.67	1.53
1	A	366	VAL	C-N	-6.79	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	F	119	ARG	CB-CG	6.79	1.72	1.52
7	I	30	ARG	N-CA	6.79	1.55	1.46
7	I	45	ARG	CZ-NH2	-6.79	1.24	1.33
7	I	60	GLN	CA-CB	-6.79	1.42	1.53
1	A	778	GLY	CA-C	-6.78	1.43	1.51
2	B	447	ALA	C-N	6.78	1.42	1.33
2	B	773	MET	N-CA	-6.78	1.38	1.46
2	B	1109	GLY	C-N	6.78	1.45	1.34
3	C	32	SER	CA-CB	-6.78	1.42	1.53
5	F	90	ARG	CG-CD	-6.78	1.32	1.52
8	J	28	ASP	CA-C	-6.78	1.44	1.52
1	A	1419	ASP	CB-CG	6.78	1.69	1.52
2	B	370	PHE	CG-CD2	6.78	1.53	1.38
2	B	1135	ARG	C-O	-6.78	1.16	1.24
1	A	1071	SER	CA-CB	-6.78	1.41	1.53
2	B	1004	GLU	C-O	6.78	1.41	1.24
1	A	198	GLU	CG-CD	6.78	1.69	1.52
1	A	290	GLU	CD-OE1	6.78	1.38	1.25
1	A	699	ALA	C-N	-6.78	1.24	1.33
2	B	678	GLU	CA-CB	6.78	1.67	1.53
4	E	209	ALA	N-CA	-6.78	1.37	1.46
1	A	248	PRO	CB-CG	6.78	1.83	1.49
3	C	9	LYS	CA-CB	-6.78	1.42	1.53
1	A	77	CYS	N-CA	6.77	1.56	1.46
1	A	556	TRP	C-O	6.77	1.32	1.24
3	C	218	PRO	CG-CD	6.77	1.73	1.50
4	E	69	ILE	N-CA	6.77	1.55	1.46
9	K	49	GLU	C-N	6.77	1.43	1.33
1	A	591	PHE	CB-CG	6.77	1.66	1.50
2	B	37	PHE	CE1-CZ	6.77	1.58	1.38
2	B	862	GLN	CG-CD	6.77	1.69	1.52
3	C	131	HIS	C-N	-6.77	1.25	1.33
1	A	967	ALA	N-CA	6.77	1.54	1.46
2	B	1162	ILE	CB-CG1	-6.77	1.40	1.53
7	I	58	VAL	C-N	-6.77	1.24	1.33
9	K	110	ASN	CA-C	-6.77	1.43	1.52
10	L	33	GLU	CD-OE2	6.77	1.38	1.25
1	A	224	PHE	CG-CD1	-6.77	1.24	1.38
1	A	650	GLN	CD-NE2	-6.77	1.19	1.33
10	L	40	LEU	CG-CD2	6.76	1.74	1.52
1	A	960	ILE	CB-CG1	-6.76	1.40	1.53
1	A	1225	PHE	CE2-CZ	6.76	1.58	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	763	GLN	CD-OE1	-6.76	1.10	1.23
3	C	138	GLU	C-O	6.76	1.32	1.24
1	A	1441	PHE	CA-C	-6.76	1.44	1.52
2	B	485	ARG	CG-CD	-6.76	1.32	1.52
2	B	340	ALA	N-CA	-6.76	1.37	1.45
2	B	544	CYS	CA-C	6.76	1.61	1.52
1	A	1287	TYR	C-O	6.75	1.32	1.23
2	B	332	ASP	CA-C	6.75	1.61	1.52
2	B	770	GLN	CA-CB	6.75	1.64	1.53
1	A	710	LEU	C-N	-6.75	1.24	1.34
5	F	105	ALA	CA-CB	-6.75	1.42	1.53
2	B	249	ARG	C-N	6.75	1.43	1.33
2	B	662	MET	N-CA	-6.75	1.37	1.46
2	B	1190	ASP	CB-CG	-6.75	1.35	1.52
1	A	98	LYS	C-N	6.75	1.42	1.33
1	A	1136	SER	CB-OG	6.75	1.55	1.42
2	B	935	ARG	C-O	6.75	1.32	1.23
4	E	33	GLU	N-CA	6.75	1.55	1.46
8	J	8	PHE	C-O	-6.75	1.16	1.24
1	A	709	THR	C-N	-6.75	1.25	1.33
6	H	84	ALA	N-CA	6.75	1.54	1.46
1	A	782	ARG	C-N	6.74	1.44	1.33
1	A	879	GLU	CA-C	-6.74	1.44	1.52
1	A	982	THR	C-N	6.74	1.42	1.33
2	B	272	THR	CB-CG2	-6.74	1.30	1.52
2	B	901	PRO	CA-CB	6.74	1.62	1.53
7	I	58	VAL	C-O	-6.74	1.16	1.23
1	A	855	THR	CA-CB	6.74	1.64	1.53
1	A	1000	LEU	C-O	-6.74	1.15	1.23
9	K	84	LYS	C-O	6.74	1.32	1.24
1	A	188	ASP	C-O	6.74	1.32	1.24
1	A	196	GLU	CD-OE2	6.74	1.38	1.25
1	A	1154	TYR	CG-CD1	-6.74	1.25	1.39
2	B	465	ASN	CG-OD1	6.74	1.36	1.23
5	F	111	LEU	CA-C	6.74	1.61	1.52
1	A	117	GLU	CG-CD	6.74	1.68	1.52
1	A	480	ALA	C-N	6.74	1.39	1.33
1	A	1160	SER	CB-OG	6.74	1.55	1.42
2	B	38	PHE	N-CA	-6.74	1.37	1.46
1	A	197	PRO	CA-C	6.74	1.60	1.52
3	C	49	VAL	CB-CG2	-6.74	1.30	1.52
8	J	44	TYR	CG-CD2	-6.74	1.25	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	596	LEU	N-CA	6.73	1.54	1.46
1	A	881	GLN	C-O	-6.73	1.15	1.23
1	A	895	LYS	N-CA	6.73	1.54	1.46
1	A	1408	ILE	CA-C	-6.73	1.42	1.52
1	A	1288	ASP	CG-OD1	6.73	1.38	1.25
2	B	278	GLN	CD-NE2	6.73	1.47	1.33
1	A	800	VAL	N-CA	-6.73	1.38	1.46
1	A	1116	LEU	CB-CG	-6.73	1.40	1.53
2	B	1040	ASN	C-O	-6.73	1.16	1.23
3	C	126	GLY	C-N	6.73	1.43	1.33
1	A	1130	GLN	CA-CB	6.73	1.64	1.53
2	B	326	ASP	C-N	-6.73	1.24	1.34
1	A	300	VAL	C-O	-6.72	1.16	1.24
1	A	468	PHE	CB-CG	-6.72	1.35	1.50
1	A	742	ASN	CB-CG	-6.72	1.35	1.52
1	A	1274	ARG	N-CA	6.72	1.54	1.46
3	C	123	ASN	CG-OD1	6.72	1.36	1.23
9	K	44	ASN	CG-ND2	6.72	1.47	1.33
9	K	95	ILE	CB-CG2	6.72	1.74	1.52
1	A	1417	GLU	CG-CD	6.72	1.68	1.52
2	B	119	LEU	C-N	6.72	1.43	1.33
2	B	267	ARG	C-N	-6.72	1.24	1.33
6	H	137	GLN	CA-C	6.72	1.60	1.52
7	I	111	THR	CB-CG2	-6.72	1.30	1.52
1	A	1136	SER	CA-C	6.72	1.61	1.52
2	B	942	ARG	CZ-NH2	6.72	1.42	1.33
6	H	104	PHE	N-CA	6.72	1.54	1.46
1	A	181	LEU	CA-C	-6.72	1.44	1.52
1	A	1229	SER	N-CA	6.72	1.54	1.46
2	B	387	LEU	C-O	6.72	1.32	1.24
2	B	710	LEU	C-O	-6.72	1.17	1.23
3	C	68	GLY	N-CA	6.72	1.54	1.45
6	H	120	GLY	C-O	6.72	1.33	1.24
1	A	80	HIS	CB-CG	6.72	1.59	1.50
2	B	169	ARG	CD-NE	6.72	1.55	1.46
1	A	939	ASP	C-O	-6.72	1.16	1.24
1	A	1297	GLU	CG-CD	6.72	1.68	1.52
2	B	745	PRO	CA-C	-6.72	1.40	1.52
2	B	1181	GLU	CA-CB	6.72	1.65	1.53
1	A	845	LEU	CG-CD1	-6.71	1.30	1.52
1	A	1167	GLU	CA-C	6.71	1.61	1.52
1	A	1308	THR	CB-CG2	-6.71	1.30	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1007	VAL	CB-CG2	-6.71	1.30	1.52
4	E	71	LYS	CA-C	-6.71	1.43	1.52
1	A	855	THR	CB-CG2	-6.71	1.30	1.52
2	B	1146	PHE	CA-CB	-6.71	1.42	1.53
4	E	14	ARG	CZ-NH2	-6.71	1.24	1.33
1	A	1120	LEU	CA-C	6.71	1.62	1.53
5	F	140	ASP	CG-OD2	6.71	1.38	1.25
1	A	472	LEU	CG-CD2	-6.71	1.30	1.52
1	A	1431	GLY	C-O	-6.71	1.14	1.24
2	B	29	ASP	CB-CG	-6.71	1.35	1.52
2	B	1093	GLN	CA-C	6.71	1.60	1.52
9	K	26	LYS	CA-C	6.71	1.61	1.52
9	K	65	HIS	CB-CG	-6.71	1.40	1.50
1	A	272	ALA	CA-CB	6.71	1.64	1.53
1	A	1348	LEU	C-O	-6.71	1.16	1.24
2	B	65	GLU	CG-CD	6.71	1.68	1.52
2	B	879	ARG	CD-NE	6.71	1.55	1.46
9	K	39	ASP	C-N	-6.71	1.25	1.34
1	A	124	GLN	N-CA	6.71	1.54	1.46
1	A	888	GLY	CA-C	-6.71	1.44	1.52
2	B	912	ILE	CA-CB	-6.71	1.45	1.54
3	C	231	ASN	CB-CG	6.71	1.68	1.52
1	A	1370	LEU	N-CA	-6.70	1.38	1.46
2	B	580	VAL	C-O	-6.70	1.17	1.24
3	C	145	CYS	N-CA	-6.70	1.37	1.45
1	A	63	ARG	C-O	6.70	1.32	1.24
1	A	157	ASP	CA-CB	6.70	1.64	1.53
1	A	867	ILE	CB-CG1	-6.70	1.40	1.53
2	B	601	ARG	CZ-NH1	6.70	1.42	1.32
5	F	123	LYS	C-O	-6.70	1.16	1.24
1	A	1228	TRP	CD2-CE2	-6.70	1.29	1.41
6	H	33	GLN	CA-CB	6.70	1.62	1.53
2	B	519	TRP	CA-CB	6.70	1.64	1.53
9	K	84	LYS	N-CA	-6.70	1.37	1.46
1	A	517	ASN	CA-CB	-6.70	1.42	1.53
1	A	989	GLY	C-O	6.70	1.31	1.23
4	E	106	GLN	C-O	-6.70	1.15	1.24
1	A	792	TYR	C-N	-6.69	1.23	1.33
1	A	898	ARG	C-O	6.69	1.31	1.24
8	J	38	ARG	N-CA	-6.69	1.37	1.46
2	B	305	VAL	N-CA	-6.69	1.38	1.46
1	A	685	GLU	CD-OE1	6.69	1.38	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1144	LYS	CA-C	-6.69	1.44	1.52
2	B	265	SER	C-O	6.69	1.32	1.24
4	E	61	GLN	CA-CB	6.69	1.64	1.53
1	A	736	ASN	C-O	-6.69	1.15	1.24
4	E	129	PRO	C-N	6.69	1.42	1.33
5	F	150	GLU	C-O	-6.69	1.15	1.24
6	H	130	ARG	CD-NE	-6.69	1.36	1.46
1	A	819	GLY	N-CA	-6.69	1.37	1.45
1	A	1159	ARG	C-N	-6.68	1.26	1.33
2	B	417	PHE	N-CA	-6.68	1.37	1.46
7	I	98	VAL	CA-CB	-6.68	1.47	1.54
2	B	658	ILE	CA-C	-6.68	1.42	1.52
6	H	121	LEU	N-CA	-6.68	1.38	1.46
1	A	153	PRO	C-O	6.68	1.32	1.23
2	B	787	VAL	CB-CG1	6.68	1.74	1.52
1	A	433	GLU	CD-OE1	6.68	1.38	1.25
2	B	287	ARG	NE-CZ	-6.68	1.25	1.33
2	B	388	CYS	CA-CB	-6.68	1.42	1.53
2	B	647	GLY	C-O	-6.68	1.15	1.23
1	A	89	PRO	C-N	-6.68	1.25	1.33
1	A	457	ALA	C-O	-6.68	1.15	1.23
2	B	712	PRO	N-CA	6.68	1.57	1.47
2	B	935	ARG	CA-CB	6.68	1.61	1.52
2	B	1080	LYS	C-O	-6.68	1.14	1.23
3	C	256	ALA	C-N	6.68	1.43	1.33
1	A	452	LYS	N-CA	6.67	1.55	1.46
6	H	2	SER	CA-CB	6.67	1.66	1.53
1	A	548	ASN	CA-CB	-6.67	1.42	1.53
1	A	1078	GLN	CG-CD	6.67	1.68	1.52
2	B	1106	ARG	C-O	6.67	1.31	1.23
1	A	814	PHE	CE1-CZ	6.67	1.58	1.38
3	C	43	THR	CA-CB	-6.67	1.43	1.53
1	A	120	GLU	CD-OE1	6.67	1.38	1.25
1	A	204	THR	N-CA	-6.67	1.38	1.46
1	A	1255	GLU	C-O	6.67	1.32	1.24
2	B	356	LEU	N-CA	-6.67	1.37	1.46
2	B	1045	SER	CA-C	-6.67	1.44	1.53
6	H	42	ILE	N-CA	-6.67	1.38	1.46
1	A	397	ASN	CG-ND2	6.67	1.47	1.33
1	A	609	ASP	CA-CB	-6.67	1.42	1.53
1	A	799	PHE	CA-CB	6.67	1.64	1.53
2	B	737	THR	C-O	6.67	1.33	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	13	ALA	CA-CB	-6.67	1.42	1.53
3	C	137	LYS	CA-CB	6.67	1.64	1.53
1	A	1343	ALA	CA-CB	-6.67	1.42	1.53
2	B	186	GLU	N-CA	6.67	1.54	1.46
1	A	426	LEU	CG-CD1	6.66	1.74	1.52
1	A	921	GLY	CA-C	6.66	1.60	1.51
1	A	1409	LEU	CG-CD1	6.66	1.74	1.52
5	F	118	LEU	C-O	-6.66	1.16	1.24
2	B	123	THR	CB-OG1	-6.66	1.33	1.43
1	A	417	TYR	C-O	-6.66	1.15	1.24
1	A	1356	ILE	CA-C	-6.66	1.44	1.52
2	B	109	THR	CB-OG1	6.66	1.54	1.43
2	B	378	LEU	CA-C	-6.66	1.44	1.52
2	B	381	MET	N-CA	-6.66	1.37	1.46
2	B	564	GLU	C-O	-6.66	1.13	1.24
2	B	680	THR	CB-CG2	-6.66	1.30	1.52
2	B	773	MET	CA-CB	-6.66	1.43	1.53
2	B	1135	ARG	CD-NE	-6.66	1.36	1.46
1	A	758	ILE	N-CA	6.66	1.54	1.46
1	A	988	LEU	CA-C	-6.66	1.43	1.52
3	C	198	ALA	CA-CB	-6.66	1.42	1.53
8	J	62	ARG	C-N	-6.66	1.24	1.33
1	A	1030	ARG	CZ-NH2	-6.65	1.24	1.33
3	C	184	ASN	N-CA	6.65	1.57	1.46
1	A	364	VAL	CA-C	-6.65	1.44	1.52
1	A	623	GLY	C-O	-6.65	1.17	1.23
1	A	640	GLN	CD-NE2	6.65	1.47	1.33
1	A	1236	LEU	CA-C	-6.65	1.44	1.52
1	A	324	SER	CA-C	6.65	1.67	1.52
1	A	946	VAL	N-CA	6.65	1.54	1.46
1	A	1341	ILE	CB-CG1	-6.65	1.40	1.53
2	B	289	LEU	N-CA	-6.65	1.37	1.46
2	B	1008	PRO	N-CD	-6.65	1.38	1.47
1	A	610	GLY	CA-C	6.64	1.58	1.51
1	A	1092	LYS	C-N	6.64	1.44	1.33
8	J	23	ASN	CG-ND2	6.64	1.47	1.33
1	A	1111	MET	CG-SD	6.64	1.97	1.80
2	B	466	TRP	CE2-CZ2	-6.64	1.25	1.39
2	B	795	ILE	C-N	-6.64	1.23	1.33
7	I	108	HIS	CA-C	-6.64	1.44	1.52
7	I	109	ILE	CB-CG2	-6.64	1.30	1.52
9	K	77	THR	C-N	6.64	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	I	30	ARG	C-N	-6.64	1.24	1.33
1	A	204	THR	C-O	6.64	1.31	1.24
2	B	599	THR	CA-CB	-6.64	1.42	1.53
2	B	686	ASN	CA-CB	6.64	1.63	1.53
2	B	1190	ASP	N-CA	6.64	1.54	1.46
3	C	110	THR	CA-CB	6.64	1.63	1.53
6	H	145	ARG	N-CA	6.64	1.54	1.45
9	K	59	ALA	CA-C	-6.64	1.44	1.52
2	B	62	ILE	CB-CG1	6.64	1.66	1.53
2	B	493	SER	N-CA	-6.64	1.38	1.46
2	B	661	LEU	CG-CD1	-6.64	1.30	1.52
2	B	984	HIS	CG-ND1	-6.64	1.30	1.38
3	C	33	LEU	CG-CD2	-6.64	1.30	1.52
7	I	26	LEU	C-O	6.64	1.31	1.23
1	A	200	ARG	C-N	-6.63	1.25	1.33
1	A	1061	GLY	C-O	6.63	1.33	1.24
2	B	579	ARG	CG-CD	6.63	1.72	1.52
6	H	41	ASP	CG-OD1	6.63	1.38	1.25
1	A	726	ARG	N-CA	-6.63	1.38	1.46
7	I	73	ARG	CZ-NH1	6.63	1.42	1.32
7	I	37	GLU	CD-OE2	6.63	1.38	1.25
8	J	63	TYR	CB-CG	6.63	1.66	1.51
1	A	548	ASN	N-CA	-6.63	1.37	1.46
1	A	1033	GLN	C-N	6.63	1.42	1.33
2	B	1058	LEU	C-O	6.63	1.31	1.24
1	A	1195	LEU	CG-CD2	-6.63	1.30	1.52
2	B	893	LEU	C-N	-6.63	1.25	1.33
3	C	170	TRP	CA-C	-6.63	1.43	1.52
1	A	1287	TYR	CA-CB	6.63	1.69	1.53
4	E	115	ASN	C-O	6.63	1.30	1.24
1	A	815	PHE	CG-CD2	-6.62	1.25	1.38
3	C	156	THR	C-O	-6.62	1.15	1.23
1	A	359	LEU	CA-CB	-6.62	1.43	1.53
2	B	894	ASP	CG-OD2	6.62	1.38	1.25
7	I	59	VAL	CA-C	6.62	1.61	1.52
4	E	136	ASN	CB-CG	6.62	1.68	1.52
1	A	1357	ALA	N-CA	6.62	1.55	1.46
6	H	102	TYR	CA-CB	-6.62	1.43	1.54
1	A	1240	CYS	N-CA	6.62	1.54	1.46
2	B	286	PHE	CE1-CZ	-6.62	1.18	1.38
7	I	36	GLU	CD-OE2	6.62	1.38	1.25
1	A	1373	ASP	CA-C	6.62	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	H	42	ILE	C-O	-6.62	1.17	1.24
1	A	537	ARG	N-CA	6.62	1.54	1.46
1	A	771	GLU	C-O	-6.62	1.15	1.23
1	A	772	GLY	C-N	-6.62	1.24	1.33
2	B	537	LYS	N-CA	-6.62	1.37	1.45
2	B	1002	THR	C-O	6.62	1.32	1.23
8	J	2	ILE	C-N	6.62	1.40	1.33
8	J	26	GLN	CD-NE2	6.62	1.47	1.33
1	A	23	SER	C-O	6.61	1.32	1.24
1	A	86	LEU	CB-CG	-6.61	1.40	1.53
1	A	219	PHE	CG-CD1	-6.61	1.25	1.38
2	B	595	ARG	CB-CG	6.61	1.72	1.52
5	F	143	PHE	C-O	-6.61	1.15	1.23
7	I	7	CYS	N-CA	6.61	1.54	1.46
1	A	1131	ALA	C-N	6.61	1.41	1.33
1	A	895	LYS	CA-CB	6.61	1.63	1.53
2	B	563	MET	C-O	-6.61	1.15	1.23
2	B	395	GLN	C-O	-6.61	1.15	1.23
6	H	121	LEU	CA-C	-6.61	1.44	1.52
1	A	189	ARG	CA-C	6.61	1.61	1.53
1	A	285	PRO	C-O	-6.61	1.15	1.23
1	A	893	PHE	CA-C	-6.61	1.44	1.52
7	I	67	THR	CA-CB	-6.61	1.42	1.53
1	A	783	THR	C-N	-6.61	1.25	1.33
1	A	1441	PHE	N-CA	-6.61	1.37	1.45
2	B	195	CYS	C-N	-6.61	1.26	1.34
4	E	193	GLY	CA-C	6.60	1.61	1.51
1	A	352	VAL	C-O	-6.60	1.17	1.24
1	A	1359	ASP	CA-CB	6.60	1.64	1.53
2	B	773	MET	CG-SD	-6.60	1.64	1.80
4	E	154	ILE	CB-CG2	-6.60	1.30	1.52
4	E	200	ARG	N-CA	-6.60	1.37	1.45
1	A	616	VAL	N-CA	-6.60	1.38	1.46
9	K	21	ILE	CB-CG2	-6.60	1.30	1.52
1	A	391	LEU	CG-CD1	-6.60	1.30	1.52
1	A	705	LYS	CG-CD	6.60	1.72	1.52
1	A	859	SER	CA-CB	-6.60	1.42	1.53
2	B	225	VAL	N-CA	-6.60	1.38	1.46
2	B	250	PHE	CE1-CZ	6.60	1.58	1.38
2	B	829	CYS	N-CA	6.60	1.54	1.46
3	C	216	GLY	C-O	6.60	1.32	1.23
4	E	178	ILE	CA-C	6.60	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	F	102	SER	N-CA	-6.60	1.37	1.46
6	H	28	ALA	CA-C	6.60	1.61	1.52
10	L	64	LEU	N-CA	6.60	1.54	1.46
1	A	591	PHE	C-O	-6.60	1.16	1.24
2	B	420	LEU	CA-C	-6.60	1.44	1.52
2	B	764	SER	CB-OG	-6.60	1.28	1.42
1	A	71	GLN	CA-C	-6.59	1.44	1.52
2	B	658	ILE	C-N	-6.59	1.24	1.33
1	A	145	LYS	CA-C	-6.59	1.44	1.52
1	A	413	ILE	N-CA	-6.59	1.38	1.46
1	A	416	ARG	C-N	-6.59	1.24	1.33
1	A	1262	LYS	N-CA	-6.59	1.38	1.46
2	B	639	ILE	CA-CB	-6.59	1.46	1.54
2	B	802	PRO	CA-C	6.59	1.60	1.52
7	I	110	PHE	CB-CG	-6.59	1.35	1.50
1	A	847	ASP	C-N	-6.59	1.25	1.33
2	B	732	SER	C-N	6.59	1.43	1.33
8	J	10	CYS	CA-CB	6.59	1.65	1.53
1	A	1366	ARG	CD-NE	-6.59	1.37	1.46
2	B	238	ALA	CA-C	-6.59	1.44	1.52
4	E	162	ARG	C-O	-6.59	1.16	1.24
1	A	701	LEU	CA-CB	-6.58	1.43	1.53
1	A	1191	TRP	C-O	6.58	1.31	1.23
1	A	1263	ILE	CA-CB	6.58	1.63	1.54
1	A	1159	ARG	CG-CD	6.58	1.72	1.52
2	B	502	ILE	N-CA	6.58	1.58	1.46
4	E	71	LYS	CD-CE	6.58	1.72	1.52
2	B	845	SER	CB-OG	6.58	1.55	1.42
2	B	1198	TYR	CE2-CZ	-6.58	1.22	1.38
2	B	1222	ARG	CA-C	6.58	1.61	1.52
3	C	192	TRP	CB-CG	6.58	1.70	1.50
4	E	163	GLU	CG-CD	6.58	1.68	1.52
2	B	595	ARG	CD-NE	6.58	1.55	1.46
6	H	2	SER	N-CA	6.58	1.58	1.46
1	A	10	PRO	CA-C	6.58	1.60	1.52
5	F	106	PRO	CB-CG	6.58	1.82	1.49
7	I	52	ILE	C-N	-6.58	1.23	1.33
1	A	37	PHE	CE1-CZ	6.57	1.58	1.38
1	A	820	GLY	C-N	-6.57	1.25	1.33
1	A	1057	VAL	N-CA	-6.57	1.37	1.46
2	B	1209	ALA	CA-C	6.57	1.61	1.52
1	A	1161	THR	N-CA	6.57	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	39	ARG	CA-C	-6.57	1.44	1.52
2	B	227	LYS	N-CA	-6.57	1.37	1.45
2	B	422	LYS	CG-CD	6.57	1.72	1.52
6	H	110	ASP	C-N	6.57	1.42	1.33
8	J	5	VAL	CB-CG2	6.57	1.74	1.52
9	K	114	LEU	CA-CB	6.57	1.66	1.53
1	A	987	VAL	C-O	-6.57	1.16	1.24
1	A	1233	ASP	CG-OD2	6.57	1.37	1.25
2	B	1034	VAL	CA-C	-6.57	1.44	1.52
4	E	41	ASP	CG-OD2	6.57	1.37	1.25
1	A	619	LYS	CE-NZ	6.57	1.69	1.49
1	A	777	PHE	CE2-CZ	-6.57	1.19	1.38
9	K	9	LEU	CB-CG	-6.57	1.40	1.53
1	A	836	TYR	C-N	-6.57	1.25	1.33
2	B	59	LEU	C-N	-6.57	1.25	1.33
3	C	186	LEU	CA-C	6.57	1.61	1.52
5	F	153	VAL	CB-CG1	6.57	1.74	1.52
1	A	640	GLN	N-CA	-6.56	1.38	1.46
2	B	31	TRP	CG-CD1	-6.56	1.20	1.36
4	E	200	ARG	C-O	-6.56	1.15	1.23
2	B	1007	VAL	C-N	-6.56	1.25	1.33
1	A	282	ASN	C-O	6.56	1.32	1.24
4	E	63	ASN	CA-CB	6.56	1.62	1.53
1	A	624	SER	C-O	-6.56	1.12	1.23
1	A	1102	LYS	N-CA	-6.56	1.38	1.46
2	B	248	SER	CA-CB	6.56	1.64	1.53
2	B	1027	ILE	CA-CB	-6.56	1.45	1.54
2	B	1158	PHE	C-O	-6.56	1.15	1.24
3	C	17	ASN	CB-CG	6.56	1.68	1.52
7	I	51	ASN	CG-OD1	6.56	1.36	1.23
10	L	26	THR	C-O	6.56	1.32	1.24
1	A	737	LEU	C-N	6.56	1.42	1.33
1	A	817	ALA	CA-CB	-6.56	1.43	1.53
1	A	988	LEU	C-N	-6.56	1.24	1.33
1	A	931	GLU	CD-OE1	6.55	1.37	1.25
1	A	130	ASP	CG-OD1	6.55	1.37	1.25
1	A	213	HIS	CA-C	6.55	1.63	1.52
4	E	74	ASP	CA-C	6.55	1.67	1.52
1	A	194	ALA	N-CA	6.55	1.54	1.46
1	A	1306	LEU	CB-CG	-6.55	1.40	1.53
3	C	143	LEU	CA-CB	-6.55	1.43	1.53
4	E	3	GLN	CB-CG	6.55	1.72	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	60	PHE	CA-C	6.55	1.60	1.52
7	I	117	LYS	CE-NZ	6.55	1.69	1.49
1	A	248	PRO	CA-C	6.55	1.66	1.52
2	B	498	THR	N-CA	-6.55	1.37	1.45
2	B	1135	ARG	CZ-NH2	6.55	1.42	1.33
1	A	901	LEU	C-N	-6.55	1.25	1.33
1	A	963	ILE	C-O	-6.55	1.16	1.24
1	A	1427	ASN	N-CA	-6.55	1.37	1.46
2	B	783	THR	C-O	-6.55	1.15	1.24
2	B	820	GLY	C-N	-6.55	1.25	1.33
2	B	1204	PHE	CE2-CZ	-6.55	1.19	1.38
2	B	353	LYS	C-O	-6.54	1.16	1.24
2	B	579	ARG	C-O	-6.54	1.15	1.23
4	E	194	GLU	CA-C	-6.54	1.44	1.52
4	E	57	MET	N-CA	6.54	1.54	1.46
4	E	168	TYR	CD2-CE2	6.54	1.58	1.38
4	E	202	SER	C-O	-6.54	1.16	1.23
2	B	869	SER	N-CA	6.54	1.54	1.46
3	C	45	ALA	CA-CB	6.54	1.64	1.53
2	B	574	SER	N-CA	6.54	1.53	1.46
3	C	90	ASP	CG-OD2	6.54	1.37	1.25
1	A	434	ARG	C-O	-6.54	1.15	1.23
1	A	828	ALA	N-CA	6.54	1.54	1.46
1	A	1051	ALA	N-CA	6.54	1.54	1.46
4	E	99	HIS	CA-C	6.54	1.61	1.52
6	H	115	TYR	C-N	-6.54	1.24	1.33
9	K	13	GLY	N-CA	6.54	1.53	1.45
1	A	1003	LYS	CA-CB	6.54	1.63	1.53
1	A	110	CYS	N-CA	6.54	1.54	1.46
1	A	588	LEU	CB-CG	-6.54	1.40	1.53
1	A	860	LEU	CA-C	-6.54	1.43	1.52
2	B	694	ASP	CG-OD2	6.54	1.37	1.25
5	F	134	ILE	C-O	-6.54	1.17	1.24
2	B	684	LEU	CG-CD2	6.53	1.74	1.52
4	E	29	PHE	CE2-CZ	6.53	1.58	1.38
4	E	45	LYS	CG-CD	6.53	1.72	1.52
6	H	146	ARG	CA-C	6.53	1.66	1.52
1	A	233	TRP	CA-C	6.53	1.61	1.52
1	A	278	THR	CA-CB	6.53	1.64	1.53
2	B	171	PRO	CB-CG	6.53	1.82	1.49
3	C	205	LYS	C-N	6.53	1.42	1.33
1	A	200	ARG	NE-CZ	-6.53	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	382	PRO	CG-CD	-6.53	1.28	1.50
1	A	782	ARG	CB-CG	-6.53	1.32	1.52
1	A	1159	ARG	N-CA	6.53	1.54	1.46
1	A	1356	ILE	CB-CG2	-6.53	1.31	1.52
2	B	728	ARG	CB-CG	-6.53	1.32	1.52
1	A	1261	LYS	CA-C	6.52	1.61	1.52
1	A	713	SER	C-N	-6.52	1.25	1.33
1	A	914	GLU	CA-CB	6.52	1.64	1.53
2	B	1069	PHE	CE1-CZ	-6.52	1.19	1.38
2	B	1155	SER	C-O	6.52	1.32	1.24
4	E	84	ASP	CA-C	6.52	1.61	1.52
8	J	44	TYR	CZ-OH	6.52	1.51	1.38
1	A	944	ARG	C-O	-6.52	1.15	1.24
10	L	31	CYS	CA-C	6.52	1.61	1.52
1	A	468	PHE	CG-CD1	-6.52	1.25	1.38
2	B	447	ALA	CA-CB	-6.52	1.42	1.53
1	A	169	ASN	CB-CG	-6.52	1.35	1.52
1	A	1445	ILE	C-N	6.52	1.42	1.33
2	B	752	ALA	CA-C	-6.52	1.44	1.52
2	B	913	GLY	C-O	-6.52	1.17	1.23
4	E	103	LYS	CA-CB	6.52	1.62	1.53
1	A	631	HIS	C-O	6.51	1.31	1.24
1	A	1166	ASP	CG-OD1	6.51	1.37	1.25
1	A	1291	VAL	CA-CB	-6.51	1.44	1.54
1	A	1362	TYR	CE2-CZ	6.51	1.53	1.38
1	A	1065	GLY	CA-C	6.51	1.61	1.51
2	B	1179	GLN	N-CA	6.51	1.53	1.46
4	E	202	SER	CB-OG	-6.51	1.29	1.42
1	A	833	GLU	CG-CD	6.51	1.68	1.52
2	B	912	ILE	C-O	6.51	1.31	1.24
3	C	214	ASN	CA-CB	6.51	1.65	1.53
5	F	123	LYS	CE-NZ	6.51	1.68	1.49
1	A	698	GLN	CA-CB	-6.51	1.42	1.53
1	A	286	HIS	C-O	-6.51	1.15	1.24
1	A	873	MET	CA-C	6.51	1.62	1.53
1	A	1222	ASN	N-CA	6.51	1.54	1.46
7	I	34	TYR	N-CA	-6.51	1.37	1.46
9	K	62	LYS	CE-NZ	-6.51	1.29	1.49
2	B	254	LEU	N-CA	-6.50	1.38	1.46
1	A	387	ARG	C-O	6.50	1.31	1.24
1	A	676	MET	SD-CE	6.50	1.95	1.79
1	A	1206	ASP	CA-C	-6.50	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1211	GLN	CD-OE1	6.50	1.35	1.23
1	A	1371	LEU	C-N	-6.50	1.25	1.33
3	C	177	GLU	CD-OE2	6.50	1.37	1.25
7	I	93	LYS	CG-CD	6.50	1.72	1.52
1	A	997	LEU	CA-CB	-6.50	1.43	1.52
1	A	1198	ASP	CA-C	6.50	1.60	1.52
2	B	519	TRP	CE3-CZ3	6.50	1.58	1.38
7	I	49	ILE	CA-C	6.50	1.60	1.52
1	A	190	ALA	N-CA	6.50	1.54	1.46
2	B	45	SER	CA-CB	6.50	1.64	1.53
2	B	315	LYS	CA-C	-6.50	1.44	1.52
3	C	141	GLY	C-O	6.50	1.32	1.23
1	A	305	ASP	CB-CG	6.50	1.68	1.52
1	A	1335	ILE	CB-CG2	-6.50	1.31	1.52
4	E	47	CYS	C-N	6.50	1.42	1.33
1	A	987	VAL	N-CA	-6.50	1.38	1.46
2	B	598	GLU	CD-OE1	6.50	1.37	1.25
2	B	1172	ILE	C-O	6.50	1.31	1.23
3	C	191	TYR	CE2-CZ	6.50	1.53	1.38
6	H	58	THR	CA-C	6.50	1.60	1.52
2	B	308	TRP	CZ2-CH2	-6.50	1.25	1.37
2	B	366	GLN	CB-CG	-6.50	1.32	1.52
1	A	647	GLY	C-N	-6.49	1.25	1.34
6	H	50	ALA	C-O	6.49	1.32	1.23
1	A	385	ILE	CB-CG1	-6.49	1.40	1.53
2	B	734	HIS	N-CA	6.49	1.55	1.46
1	A	962	ARG	C-O	-6.49	1.15	1.24
1	A	1200	ALA	CA-CB	-6.49	1.42	1.53
2	B	278	GLN	CA-CB	-6.49	1.37	1.54
2	B	367	LEU	CB-CG	6.49	1.66	1.53
8	J	36	LEU	C-O	6.49	1.32	1.24
1	A	119	ASN	CG-OD1	-6.49	1.11	1.23
1	A	692	ASP	N-CA	6.49	1.54	1.46
2	B	997	GLU	N-CA	6.49	1.54	1.46
3	C	119	VAL	C-O	-6.49	1.17	1.24
6	H	133	ASN	C-O	6.49	1.32	1.24
1	A	1213	GLY	C-O	6.49	1.31	1.23
2	B	52	ASN	CA-C	-6.49	1.44	1.52
1	A	95	PHE	CA-C	-6.49	1.44	1.52
1	A	781	ASP	CA-CB	-6.49	1.43	1.53
1	A	1218	GLN	N-CA	6.49	1.54	1.46
2	B	315	LYS	CD-CE	6.49	1.72	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	358	LYS	N-CA	6.49	1.54	1.46
5	F	152	ILE	C-O	-6.49	1.16	1.24
2	B	1068	GLY	CA-C	-6.48	1.42	1.51
3	C	256	ALA	CA-CB	-6.48	1.42	1.53
2	B	746	SER	CB-OG	-6.48	1.29	1.42
3	C	106	GLU	CD-OE1	6.48	1.37	1.25
1	A	232	GLU	CA-CB	6.48	1.64	1.53
1	A	568	PRO	CB-CG	-6.48	1.17	1.49
1	A	1009	ASN	CA-CB	6.48	1.64	1.53
1	A	1307	GLU	C-O	-6.48	1.16	1.23
2	B	18	PHE	C-N	6.48	1.42	1.33
4	E	5	ASN	CA-CB	6.48	1.64	1.53
8	J	30	LEU	CA-CB	-6.48	1.43	1.53
3	C	235	VAL	N-CA	-6.48	1.38	1.46
1	A	26	GLU	C-N	-6.48	1.25	1.34
2	B	172	ILE	CA-C	6.48	1.60	1.52
1	A	1023	ARG	C-N	-6.48	1.25	1.34
2	B	95	ILE	N-CA	6.48	1.53	1.46
2	B	512	ARG	N-CA	6.48	1.54	1.46
2	B	699	GLU	CA-CB	-6.47	1.42	1.53
1	A	1074	GLU	C-O	-6.47	1.16	1.24
1	A	1271	ILE	C-O	-6.47	1.17	1.24
2	B	584	GLY	C-O	6.47	1.33	1.24
2	B	1198	TYR	CG-CD1	-6.47	1.25	1.39
7	I	35	VAL	CA-C	6.47	1.60	1.52
1	A	1172	LEU	N-CA	6.47	1.55	1.46
4	E	139	ALA	C-O	-6.47	1.15	1.24
4	E	196	VAL	CB-CG1	-6.47	1.31	1.52
1	A	614	PHE	CG-CD2	-6.47	1.25	1.38
1	A	971	PHE	CD1-CE1	-6.47	1.19	1.38
3	C	94	LYS	C-N	6.47	1.43	1.33
9	K	97	LYS	C-O	-6.47	1.15	1.24
2	B	313	MET	CA-C	-6.46	1.43	1.52
2	B	487	THR	CA-CB	-6.46	1.42	1.53
1	A	1103	GLU	N-CA	-6.46	1.38	1.46
1	A	818	MET	CA-CB	-6.46	1.43	1.53
2	B	1064	TYR	CZ-OH	6.46	1.51	1.38
7	I	111	THR	CB-OG1	-6.46	1.33	1.43
1	A	990	VAL	CA-C	-6.46	1.42	1.52
1	A	1260	LEU	CG-CD2	-6.46	1.31	1.52
1	A	1350	LYS	CB-CG	-6.46	1.33	1.52
4	E	212	ARG	CD-NE	-6.46	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	H	62	SER	CA-C	-6.46	1.44	1.52
1	A	933	TYR	C-N	-6.46	1.25	1.33
2	B	245	GLU	CG-CD	6.45	1.68	1.52
2	B	273	LEU	CA-CB	-6.45	1.42	1.53
2	B	310	MET	C-O	6.45	1.31	1.24
4	E	181	ALA	N-CA	-6.45	1.38	1.46
4	E	141	VAL	N-CA	-6.45	1.38	1.46
1	A	1360	GLY	CA-C	6.45	1.60	1.51
3	C	39	ALA	C-N	-6.45	1.25	1.33
2	B	892	LYS	CD-CE	6.45	1.71	1.52
4	E	33	GLU	CA-CB	6.45	1.64	1.53
1	A	1293	SER	N-CA	-6.45	1.36	1.45
2	B	748	ILE	CA-C	-6.45	1.43	1.52
2	B	1133	MET	CB-CG	-6.45	1.33	1.52
2	B	1101	ASP	N-CA	6.45	1.54	1.46
4	E	137	GLU	CD-OE2	6.45	1.37	1.25
6	H	135	LEU	CB-CG	6.45	1.66	1.53
2	B	324	ILE	N-CA	-6.44	1.38	1.46
2	B	1016	ALA	CA-C	-6.44	1.43	1.52
1	A	524	VAL	CA-CB	6.44	1.64	1.54
1	A	795	GLU	N-CA	-6.44	1.38	1.46
4	E	24	LYS	N-CA	-6.44	1.38	1.46
7	I	39	GLY	C-O	-6.44	1.16	1.23
1	A	718	VAL	C-O	-6.44	1.15	1.24
1	A	1241	ARG	C-N	-6.44	1.25	1.33
3	C	110	THR	C-N	-6.44	1.24	1.33
3	C	131	HIS	CA-CB	6.44	1.65	1.53
1	A	742	ASN	CA-C	6.44	1.61	1.52
1	A	1111	MET	CA-C	-6.44	1.44	1.53
2	B	177	LYS	CG-CD	6.44	1.71	1.52
5	F	112	GLU	C-O	6.44	1.33	1.23
9	K	21	ILE	C-N	-6.44	1.25	1.33
10	L	70	ARG	NE-CZ	6.44	1.40	1.33
1	A	990	VAL	C-N	-6.44	1.25	1.34
2	B	995	ARG	NE-CZ	-6.44	1.25	1.33
3	C	162	GLY	CA-C	6.44	1.58	1.51
1	A	816	HIS	C-O	-6.43	1.15	1.24
1	A	979	SER	CA-CB	6.43	1.63	1.53
2	B	528	PRO	N-CA	-6.43	1.39	1.46
4	E	42	PHE	CD1-CE1	6.43	1.57	1.38
1	A	117	GLU	C-N	-6.43	1.25	1.33
1	A	215	SER	N-CA	6.43	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	J	62	ARG	CG-CD	-6.43	1.33	1.52
9	K	24	ASP	CA-CB	-6.43	1.43	1.53
9	K	43	GLY	CA-C	6.43	1.60	1.51
1	A	593	GLU	CA-C	6.43	1.61	1.52
2	B	430	ARG	NE-CZ	6.43	1.40	1.33
3	C	95	CYS	CA-C	6.43	1.60	1.52
5	F	99	LEU	C-O	6.43	1.31	1.24
1	A	843	LYS	CA-CB	6.43	1.63	1.53
1	A	996	ASN	CG-ND2	6.43	1.46	1.33
5	F	143	PHE	CB-CG	-6.43	1.35	1.50
1	A	632	VAL	N-CA	6.42	1.54	1.46
1	A	656	TRP	CE3-CZ3	6.42	1.57	1.38
2	B	67	SER	CA-C	6.42	1.60	1.52
7	I	86	PHE	C-N	-6.42	1.24	1.33
8	J	61	LEU	N-CA	-6.42	1.37	1.46
1	A	1199	ARG	C-N	6.42	1.42	1.33
6	H	79	TRP	CE3-CZ3	6.42	1.57	1.38
6	H	146	ARG	CA-CB	6.42	1.66	1.53
9	K	64	GLU	CD-OE1	6.42	1.37	1.25
1	A	188	ASP	CB-CG	6.42	1.68	1.52
2	B	56	ASP	C-O	-6.42	1.15	1.24
2	B	757	PRO	C-O	-6.42	1.17	1.23
9	K	53	ASP	CG-OD2	6.42	1.37	1.25
2	B	197	PHE	CG-CD1	-6.42	1.25	1.38
1	A	875	ALA	CA-C	-6.42	1.43	1.52
1	A	1191	TRP	CZ3-CH2	-6.42	1.24	1.40
1	A	1235	LYS	CA-CB	6.42	1.64	1.53
2	B	864	LYS	N-CA	6.42	1.54	1.46
9	K	21	ILE	CA-C	-6.42	1.44	1.52
2	B	1175	LEU	CG-CD1	6.41	1.73	1.52
1	A	105	CYS	N-CA	6.41	1.54	1.45
1	A	172	PRO	CA-C	-6.41	1.44	1.52
1	A	503	GLN	CD-NE2	6.41	1.46	1.33
2	B	31	TRP	CD2-CE2	-6.41	1.30	1.41
2	B	590	HIS	C-N	6.41	1.43	1.33
7	I	91	ARG	CG-CD	-6.41	1.33	1.52
1	A	871	ASP	C-N	-6.41	1.25	1.33
2	B	106	ASP	CG-OD2	6.41	1.37	1.25
6	H	56	THR	C-O	6.41	1.31	1.24
9	K	3	ALA	N-CA	6.41	1.54	1.46
1	A	1319	VAL	CA-CB	-6.41	1.46	1.54
2	B	895	ASP	C-N	6.41	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1221	SER	C-O	6.41	1.32	1.24
8	J	57	ILE	CA-C	-6.41	1.43	1.52
1	A	655	PHE	CG-CD2	-6.40	1.25	1.38
1	A	660	ASN	CG-ND2	-6.40	1.19	1.33
4	E	106	GLN	C-N	6.40	1.43	1.33
1	A	946	VAL	C-N	-6.40	1.25	1.33
2	B	349	ILE	C-N	-6.40	1.24	1.33
6	H	145	ARG	C-O	6.40	1.31	1.23
9	K	85	ASP	CA-CB	6.40	1.64	1.53
2	B	1191	ILE	CA-C	-6.40	1.44	1.52
1	A	128	ILE	C-O	-6.40	1.16	1.24
2	B	573	GLN	CG-CD	6.40	1.68	1.52
2	B	492	LEU	CG-CD1	-6.40	1.31	1.52
3	C	138	GLU	CD-OE1	6.40	1.37	1.25
1	A	246	VAL	C-O	6.39	1.31	1.24
1	A	555	ASP	N-CA	-6.39	1.32	1.46
2	B	811	TYR	CB-CG	-6.39	1.37	1.51
1	A	1316	VAL	CA-C	6.39	1.62	1.52
2	B	681	TRP	NE1-CE2	-6.39	1.30	1.37
3	C	10	ILE	CB-CG1	-6.39	1.40	1.53
1	A	528	LEU	CG-CD2	6.39	1.73	1.52
1	A	576	GLN	N-CA	-6.39	1.38	1.46
2	B	397	ASP	CG-OD2	6.39	1.37	1.25
2	B	1009	ASP	C-N	-6.39	1.25	1.33
3	C	135	GLN	CA-CB	-6.39	1.43	1.54
3	C	222	LYS	CA-CB	6.39	1.63	1.54
3	C	266	ASP	CA-C	6.39	1.61	1.52
1	A	367	PRO	N-CA	-6.38	1.39	1.47
2	B	182	SER	CB-OG	6.38	1.54	1.42
4	E	150	VAL	CB-CG1	-6.38	1.31	1.52
6	H	100	THR	CB-CG2	6.38	1.73	1.52
7	I	113	ASP	CA-CB	-6.38	1.42	1.53
1	A	894	GLU	N-CA	-6.38	1.38	1.46
2	B	136	THR	CA-C	6.38	1.60	1.52
2	B	970	THR	CA-C	-6.38	1.45	1.52
2	B	298	LEU	C-O	-6.38	1.16	1.24
3	C	183	TRP	CG-CD2	-6.38	1.32	1.43
1	A	538	ASP	CA-C	-6.38	1.43	1.52
1	A	1049	ILE	C-N	-6.38	1.25	1.33
2	B	1091	TYR	CB-CG	-6.38	1.37	1.51
4	E	70	SER	C-N	6.38	1.42	1.33
1	A	67	CYS	N-CA	-6.38	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	184	SER	C-O	6.38	1.30	1.23
1	A	991	LYS	C-N	-6.38	1.25	1.33
1	A	1442	ASP	C-O	6.38	1.32	1.23
2	B	1202	LEU	CA-CB	-6.38	1.43	1.53
1	A	53	LEU	CA-C	6.37	1.61	1.53
2	B	828	ALA	CA-C	-6.37	1.44	1.52
1	A	121	LEU	CB-CG	6.37	1.66	1.53
2	B	233	PRO	C-O	-6.37	1.15	1.24
2	B	401	PHE	CG-CD1	-6.37	1.25	1.38
2	B	1096	ARG	N-CA	6.37	1.54	1.45
1	A	586	ILE	N-CA	6.37	1.53	1.46
1	A	1062	GLU	C-O	6.37	1.31	1.23
1	A	1144	LYS	CG-CD	6.37	1.71	1.52
2	B	599	THR	CA-C	-6.37	1.44	1.52
2	B	866	TYR	CD2-CE2	6.37	1.57	1.38
1	A	261	ASP	CB-CG	6.37	1.68	1.52
1	A	110	CYS	CB-SG	6.37	2.02	1.81
1	A	144	THR	C-O	-6.37	1.16	1.24
1	A	882	SER	CA-CB	6.37	1.63	1.53
1	A	924	LYS	N-CA	-6.37	1.38	1.46
6	H	82	PRO	C-O	6.37	1.32	1.24
1	A	382	PRO	CB-CG	6.36	1.81	1.49
1	A	1258	HIS	CA-CB	6.36	1.63	1.53
8	J	57	ILE	CB-CG1	-6.36	1.40	1.53
1	A	112	LYS	CG-CD	6.36	1.71	1.52
1	A	842	VAL	N-CA	-6.36	1.38	1.46
2	B	881	ASN	CA-C	6.36	1.61	1.52
2	B	948	ILE	C-O	-6.36	1.16	1.24
1	A	526	ASP	CG-OD1	6.36	1.37	1.25
6	H	24	CYS	CA-C	-6.36	1.44	1.52
7	I	23	ASN	C-O	6.36	1.33	1.23
1	A	900	ASP	C-O	6.36	1.31	1.24
2	B	325	GLN	CD-OE1	6.36	1.35	1.23
1	A	16	GLU	CG-CD	6.35	1.68	1.52
2	B	18	PHE	CD1-CE1	6.35	1.57	1.38
7	I	77	LYS	C-O	6.35	1.31	1.23
1	A	726	ARG	CD-NE	-6.35	1.37	1.46
7	I	9	ASP	C-N	6.35	1.43	1.33
2	B	994	TYR	CE2-CZ	-6.35	1.23	1.38
5	F	129	LYS	CA-CB	-6.35	1.44	1.53
1	A	714	PHE	N-CA	-6.35	1.38	1.46
1	A	1119	TYR	CG-CD1	-6.35	1.26	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	524	PRO	CA-CB	-6.35	1.42	1.54
5	F	83	PRO	CG-CD	-6.35	1.29	1.50
1	A	164	ARG	NE-CZ	6.35	1.40	1.33
1	A	1119	TYR	CZ-OH	-6.35	1.24	1.38
1	A	1173	HIS	CA-C	6.35	1.66	1.52
1	A	1344	GLY	C-N	-6.35	1.25	1.33
2	B	736	THR	C-O	6.35	1.32	1.24
2	B	1110	PRO	N-CA	6.35	1.56	1.47
2	B	1211	ASN	CB-CG	-6.35	1.36	1.52
2	B	1216	LEU	CG-CD2	-6.35	1.31	1.52
3	C	180	TYR	CD2-CE2	6.35	1.57	1.38
2	B	848	ARG	CD-NE	-6.35	1.37	1.46
1	A	460	VAL	CB-CG2	-6.34	1.31	1.52
1	A	1223	ASP	CA-CB	6.34	1.64	1.53
2	B	686	ASN	CG-OD1	6.34	1.35	1.23
1	A	370	ILE	N-CA	6.34	1.54	1.46
1	A	1243	VAL	CB-CG2	6.34	1.73	1.52
2	B	273	LEU	C-N	6.34	1.40	1.33
1	A	76	GLU	C-N	6.34	1.44	1.33
1	A	1362	TYR	CD1-CE1	6.34	1.57	1.38
1	A	1431	GLY	C-N	-6.34	1.25	1.33
2	B	544	CYS	C-O	-6.34	1.15	1.24
2	B	545	ILE	CB-CG1	-6.34	1.40	1.53
2	B	1032	SER	CB-OG	6.34	1.54	1.42
3	C	144	ILE	C-O	-6.34	1.17	1.23
4	E	159	ASP	CA-CB	6.34	1.63	1.53
1	A	564	ALA	CA-C	-6.34	1.43	1.52
1	A	933	TYR	C-O	-6.34	1.16	1.24
2	B	396	ASP	N-CA	-6.34	1.38	1.46
3	C	230	MET	SD-CE	6.34	1.95	1.79
2	B	322	PHE	CA-C	6.34	1.61	1.52
3	C	37	MET	CG-SD	-6.34	1.65	1.80
6	H	2	SER	C-N	6.34	1.40	1.33
1	A	53	LEU	CB-CG	6.33	1.66	1.53
1	A	503	GLN	CB-CG	6.33	1.71	1.52
1	A	557	ASP	CG-OD2	-6.33	1.13	1.25
8	J	17	LYS	C-O	-6.33	1.15	1.24
1	A	496	GLU	CG-CD	6.33	1.67	1.52
2	B	341	LEU	C-N	-6.33	1.24	1.33
2	B	453	ILE	C-N	6.33	1.42	1.33
1	A	1362	TYR	CB-CG	-6.33	1.37	1.51
3	C	64	ALA	C-N	-6.33	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	792	TYR	N-CA	-6.33	1.38	1.46
1	A	883	LEU	CG-CD1	-6.33	1.31	1.52
1	A	155	GLU	CD-OE1	6.33	1.37	1.25
1	A	982	THR	C-O	6.33	1.31	1.23
2	B	236	HIS	C-N	-6.33	1.25	1.33
2	B	1222	ARG	C-O	6.33	1.31	1.24
4	E	177	ARG	NE-CZ	-6.33	1.26	1.33
1	A	556	TRP	CZ2-CH2	-6.33	1.25	1.37
1	A	649	ILE	C-O	6.33	1.32	1.24
1	A	986	ILE	CA-C	-6.33	1.45	1.52
2	B	249	ARG	CZ-NH1	6.33	1.41	1.32
2	B	790	ASP	CG-OD1	6.33	1.37	1.25
7	I	73	ARG	CZ-NH2	6.33	1.41	1.33
2	B	269	ILE	N-CA	-6.32	1.38	1.46
2	B	415	GLN	CD-NE2	6.32	1.46	1.33
2	B	851	PHE	CB-CG	6.32	1.65	1.50
2	B	958	GLN	CA-CB	6.32	1.63	1.53
2	B	1213	THR	C-O	-6.32	1.16	1.24
3	C	53	THR	N-CA	-6.32	1.38	1.46
2	B	1147	LEU	N-CA	-6.32	1.38	1.46
3	C	111	THR	CA-C	6.32	1.60	1.52
1	A	557	ASP	CA-C	6.32	1.61	1.52
1	A	1194	ARG	CA-C	-6.32	1.44	1.52
2	B	879	ARG	NE-CZ	6.32	1.40	1.33
8	J	52	THR	C-N	6.32	1.41	1.33
1	A	239	LEU	N-CA	-6.32	1.34	1.45
1	A	580	VAL	CA-CB	-6.32	1.45	1.54
1	A	622	VAL	CB-CG1	-6.32	1.31	1.52
1	A	865	GLN	CG-CD	6.32	1.67	1.52
2	B	248	SER	N-CA	6.32	1.54	1.46
2	B	1025	HIS	C-N	-6.32	1.25	1.33
3	C	46	ILE	CA-CB	-6.32	1.46	1.54
1	A	942	PHE	C-N	-6.32	1.24	1.33
1	A	1071	SER	CB-OG	6.32	1.54	1.42
2	B	958	GLN	CG-CD	6.32	1.67	1.52
3	C	255	VAL	CA-C	6.32	1.62	1.52
1	A	1003	LYS	CD-CE	6.31	1.71	1.52
1	A	916	GLY	CA-C	6.31	1.60	1.51
2	B	393	LYS	CG-CD	6.31	1.71	1.52
2	B	479	VAL	CB-CG1	-6.31	1.31	1.52
2	B	635	ARG	CA-C	-6.31	1.46	1.52
6	H	39	THR	CB-CG2	6.31	1.73	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	142	VAL	C-N	6.31	1.42	1.33
2	B	510	LYS	C-O	6.31	1.29	1.23
7	I	59	VAL	CB-CG1	-6.31	1.31	1.52
7	I	107	SER	CB-OG	-6.31	1.29	1.42
10	L	42	ARG	CA-CB	6.31	1.63	1.53
1	A	1036	ARG	CA-C	-6.31	1.44	1.53
1	A	702	LEU	CG-CD1	6.30	1.73	1.52
1	A	1449	SER	C-O	6.30	1.32	1.23
2	B	56	ASP	CA-C	6.30	1.61	1.52
3	C	137	LYS	CG-CD	6.30	1.71	1.52
1	A	909	ASP	C-N	-6.30	1.27	1.34
8	J	63	TYR	CA-CB	6.30	1.63	1.53
1	A	1220	PHE	CG-CD1	-6.30	1.25	1.38
2	B	226	PHE	CE2-CZ	6.30	1.57	1.38
2	B	830	TYR	CA-C	6.30	1.59	1.53
2	B	640	VAL	C-O	-6.30	1.17	1.24
4	E	22	MET	SD-CE	-6.30	1.63	1.79
2	B	181	LEU	C-N	6.30	1.42	1.33
10	L	64	LEU	CA-CB	6.30	1.63	1.53
1	A	597	LEU	CG-CD1	6.29	1.73	1.52
2	B	662	MET	CG-SD	-6.29	1.65	1.80
2	B	870	ILE	C-N	6.29	1.42	1.33
7	I	36	GLU	CG-CD	6.29	1.67	1.52
1	A	123	ARG	CZ-NH2	6.29	1.41	1.33
1	A	1374	VAL	N-CA	-6.29	1.38	1.46
3	C	62	PHE	CA-CB	6.29	1.63	1.53
5	F	136	ARG	N-CA	-6.29	1.38	1.46
1	A	827	THR	CB-CG2	6.29	1.73	1.52
2	B	1070	GLU	CD-OE1	6.29	1.37	1.25
2	B	1103	ILE	C-O	6.29	1.31	1.24
1	A	584	ASN	N-CA	6.29	1.54	1.46
3	C	193	TYR	C-O	6.29	1.30	1.24
4	E	28	TYR	CG-CD1	-6.29	1.26	1.39
1	A	96	ILE	CB-CG2	-6.29	1.31	1.52
3	C	249	ASP	CG-OD1	6.29	1.37	1.25
1	A	786	HIS	CG-CD2	6.29	1.42	1.35
1	A	841	LEU	CA-CB	-6.29	1.43	1.53
2	B	1100	ASP	C-N	6.29	1.42	1.33
6	H	102	TYR	CZ-OH	6.29	1.51	1.38
1	A	324	SER	N-CA	6.29	1.58	1.46
1	A	1123	GLY	N-CA	6.29	1.54	1.45
1	A	1279	ILE	CA-C	-6.29	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	H	12	VAL	C-O	6.29	1.31	1.23
7	I	15	TYR	N-CA	-6.29	1.36	1.45
1	A	927	VAL	C-O	6.28	1.32	1.24
5	F	143	PHE	N-CA	-6.28	1.37	1.45
7	I	96	SER	CB-OG	6.28	1.54	1.42
1	A	1027	ALA	CA-C	6.28	1.60	1.52
1	A	1230	GLU	CA-C	-6.28	1.44	1.53
1	A	1265	ASN	CG-OD1	6.28	1.35	1.23
2	B	904	ARG	CA-CB	-6.28	1.43	1.53
9	K	34	THR	CA-C	6.28	1.60	1.52
1	A	510	GLN	CA-CB	-6.28	1.43	1.53
10	L	63	ARG	CG-CD	6.28	1.71	1.52
2	B	619	ILE	C-N	-6.28	1.24	1.33
2	B	798	TYR	CA-C	6.28	1.60	1.52
3	C	265	MET	CA-CB	-6.28	1.43	1.53
1	A	420	ARG	NE-CZ	-6.28	1.26	1.33
1	A	700	ASN	CA-CB	-6.28	1.44	1.53
1	A	827	THR	C-N	-6.28	1.25	1.33
2	B	693	ILE	CA-CB	-6.28	1.46	1.54
2	B	291	ILE	CB-CG2	-6.27	1.31	1.52
1	A	867	ILE	N-CA	-6.27	1.38	1.46
4	E	17	ARG	C-N	-6.27	1.25	1.33
6	H	122	LEU	C-O	6.27	1.31	1.23
7	I	114	GLN	N-CA	-6.27	1.38	1.46
1	A	490	HIS	N-CA	-6.27	1.38	1.46
2	B	911	ILE	CA-CB	6.27	1.62	1.54
5	F	85	MET	CA-C	6.27	1.61	1.52
7	I	50	THR	C-N	-6.27	1.24	1.33
1	A	81	PHE	CG-CD1	-6.27	1.25	1.38
1	A	137	ALA	CA-C	6.27	1.61	1.52
1	A	865	GLN	CD-NE2	-6.27	1.20	1.33
1	A	219	PHE	CA-CB	-6.27	1.43	1.53
1	A	181	LEU	C-O	6.26	1.31	1.23
1	A	931	GLU	CG-CD	6.26	1.67	1.52
1	A	788	SER	CA-C	6.26	1.61	1.53
1	A	1154	TYR	N-CA	6.26	1.53	1.46
1	A	1437	GLY	C-N	-6.26	1.25	1.33
2	B	695	ALA	CA-CB	-6.26	1.42	1.53
2	B	816	GLU	CD-OE2	-6.26	1.13	1.25
6	H	19	ARG	CA-C	6.26	1.61	1.52
1	A	120	GLU	CA-C	6.26	1.61	1.52
2	B	278	GLN	CB-CG	-6.26	1.33	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	188	HIS	CB-CG	-6.26	1.41	1.50
9	K	74	ARG	CD-NE	-6.26	1.37	1.46
1	A	782	ARG	C-O	-6.26	1.16	1.23
2	B	1064	TYR	CB-CG	-6.26	1.37	1.51
9	K	12	LEU	CB-CG	6.26	1.66	1.53
9	K	107	THR	CB-OG1	6.26	1.53	1.43
1	A	789	LYS	CE-NZ	-6.26	1.30	1.49
2	B	557	PHE	CG-CD2	6.26	1.51	1.38
3	C	240	VAL	C-O	-6.26	1.17	1.24
4	E	11	ARG	NE-CZ	-6.26	1.26	1.33
4	E	163	GLU	CA-C	-6.26	1.44	1.52
4	E	169	ARG	C-O	6.26	1.31	1.24
4	E	105	PHE	CE2-CZ	6.25	1.57	1.38
2	B	654	ARG	C-O	6.25	1.31	1.23
4	E	19	VAL	CA-C	6.25	1.60	1.52
1	A	219	PHE	C-N	6.25	1.41	1.33
4	E	94	LYS	CG-CD	6.25	1.71	1.52
2	B	1021	MET	CG-SD	-6.25	1.65	1.80
1	A	1150	SER	N-CA	-6.25	1.38	1.45
3	C	10	ILE	CB-CG2	6.25	1.73	1.52
3	C	120	ILE	CA-C	6.25	1.60	1.53
2	B	50	SER	CA-C	-6.25	1.44	1.52
2	B	180	TYR	N-CA	-6.25	1.38	1.46
2	B	356	LEU	C-O	-6.25	1.16	1.24
2	B	958	GLN	CD-OE1	6.25	1.35	1.23
8	J	50	ILE	CA-C	-6.25	1.44	1.52
10	L	50	ASP	CA-CB	6.25	1.64	1.53
1	A	409	SER	CA-CB	6.24	1.64	1.53
1	A	716	ASP	C-N	-6.24	1.25	1.33
2	B	364	ILE	C-O	-6.24	1.16	1.24
2	B	1180	PHE	CA-C	6.24	1.60	1.52
2	B	1206	GLU	N-CA	6.24	1.53	1.46
3	C	3	GLU	CG-CD	6.24	1.67	1.52
4	E	39	LEU	N-CA	-6.24	1.38	1.46
4	E	203	GLU	CA-C	-6.24	1.44	1.52
8	J	34	THR	CA-CB	-6.24	1.43	1.53
1	A	184	SER	CA-C	6.24	1.59	1.53
1	A	686	ALA	CA-C	-6.24	1.44	1.52
2	B	1094	ARG	NE-CZ	-6.24	1.26	1.33
6	H	135	LEU	CA-CB	6.24	1.64	1.53
1	A	42	ASP	CA-C	6.24	1.61	1.52
1	A	553	VAL	CA-CB	-6.24	1.46	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	89	GLU	CA-C	6.24	1.66	1.52
2	B	1020	ARG	C-N	-6.24	1.25	1.33
3	C	49	VAL	N-CA	-6.24	1.38	1.46
6	H	32	THR	C-O	6.24	1.31	1.24
1	A	807	GLY	CA-C	6.24	1.60	1.52
2	B	597	MET	SD-CE	-6.24	1.64	1.79
2	B	1081	LEU	CG-CD1	-6.24	1.31	1.52
1	A	465	TYR	CG-CD1	-6.24	1.26	1.39
1	A	1195	LEU	C-N	-6.24	1.24	1.33
1	A	647	GLY	C-O	-6.23	1.16	1.24
2	B	403	LYS	CB-CG	6.23	1.71	1.52
6	H	31	THR	C-O	6.23	1.31	1.24
1	A	1270	ASN	CG-ND2	6.23	1.46	1.33
2	B	68	THR	N-CA	-6.23	1.38	1.45
2	B	544	CYS	C-N	-6.23	1.25	1.33
1	A	130	ASP	CA-C	-6.23	1.44	1.52
2	B	1101	ASP	CA-CB	6.23	1.65	1.53
1	A	1384	VAL	N-CA	6.23	1.56	1.46
1	A	404	TYR	CG-CD1	-6.23	1.26	1.39
1	A	595	THR	CA-CB	-6.23	1.43	1.53
2	B	1202	LEU	N-CA	-6.23	1.39	1.46
1	A	475	THR	C-N	-6.22	1.25	1.33
2	B	1159	ARG	C-O	6.22	1.31	1.23
2	B	633	VAL	CA-C	6.22	1.60	1.52
4	E	198	ILE	CA-CB	-6.22	1.46	1.54
6	H	49	VAL	C-N	6.22	1.41	1.33
2	B	300	HIS	CA-C	6.22	1.61	1.52
4	E	43	LYS	CA-C	6.22	1.61	1.52
1	A	1438	THR	CB-CG2	-6.22	1.32	1.52
2	B	797	TYR	CD1-CE1	6.22	1.57	1.38
9	K	104	ASN	N-CA	6.22	1.54	1.46
1	A	808	LEU	C-N	-6.22	1.24	1.33
2	B	798	TYR	CA-CB	6.22	1.60	1.53
2	B	66	ASP	N-CA	6.22	1.54	1.46
2	B	1153	GLU	C-O	6.22	1.31	1.23
4	E	128	PRO	CA-CB	6.22	1.62	1.54
2	B	1003	ALA	C-O	-6.21	1.16	1.24
2	B	1004	GLU	CD-OE1	6.21	1.37	1.25
10	L	28	LYS	CG-CD	6.21	1.71	1.52
2	B	327	ARG	C-O	-6.21	1.16	1.24
9	K	50	LEU	CB-CG	-6.21	1.41	1.53
1	A	518	LYS	CB-CG	-6.21	1.33	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	269	ILE	C-O	-6.21	1.16	1.24
1	A	1290	LYS	C-N	-6.21	1.28	1.33
2	B	635	ARG	CZ-NH1	-6.21	1.24	1.32
1	A	203	SER	N-CA	6.21	1.53	1.46
1	A	959	ASN	C-O	-6.21	1.15	1.23
2	B	608	ASP	CA-C	-6.21	1.44	1.52
1	A	810	PRO	CB-CG	-6.21	1.18	1.49
2	B	410	GLY	CA-C	6.20	1.60	1.51
9	K	68	PHE	CA-CB	-6.20	1.42	1.53
1	A	387	ARG	NE-CZ	6.20	1.39	1.33
1	A	629	LEU	CG-CD1	-6.20	1.32	1.52
1	A	1159	ARG	CD-NE	6.20	1.54	1.46
1	A	1304	TRP	N-CA	-6.20	1.37	1.45
2	B	542	MET	C-O	6.20	1.32	1.24
3	C	39	ALA	CA-C	-6.20	1.44	1.52
1	A	1171	GLN	CG-CD	6.20	1.67	1.52
2	B	600	LEU	CG-CD2	-6.20	1.32	1.52
2	B	843	GLN	CD-OE1	-6.20	1.11	1.23
2	B	1106	ARG	CZ-NH2	6.20	1.41	1.33
3	C	99	LEU	CG-CD1	-6.20	1.32	1.52
4	E	39	LEU	CG-CD2	6.20	1.73	1.52
4	E	97	VAL	C-O	6.20	1.31	1.24
6	H	47	PHE	CA-C	-6.20	1.45	1.52
1	A	976	THR	C-N	-6.20	1.26	1.33
2	B	127	GLY	CA-C	-6.20	1.43	1.51
2	B	664	THR	CA-CB	6.20	1.63	1.53
1	A	677	ARG	CA-C	6.20	1.61	1.52
1	A	1014	ALA	CA-C	6.20	1.61	1.52
3	C	112	ASN	CG-ND2	6.20	1.46	1.33
2	B	170	LEU	C-O	6.20	1.31	1.24
2	B	519	TRP	C-O	6.20	1.31	1.24
3	C	170	TRP	C-N	-6.20	1.24	1.33
3	C	263	THR	N-CA	-6.20	1.38	1.46
2	B	326	ASP	CB-CG	6.19	1.67	1.52
1	A	201	VAL	C-O	6.19	1.32	1.24
1	A	442	VAL	CA-C	6.19	1.59	1.52
1	A	777	PHE	CA-CB	6.19	1.61	1.52
1	A	1127	ASP	CB-CG	6.19	1.67	1.52
2	B	267	ARG	N-CA	-6.19	1.38	1.46
2	B	617	ARG	CA-CB	-6.19	1.42	1.53
1	A	770	VAL	CA-CB	-6.19	1.45	1.54
2	B	892	LYS	CA-CB	-6.19	1.44	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	F	103	MET	CB-CG	-6.19	1.33	1.52
1	A	672	ASP	CG-OD1	6.19	1.37	1.25
1	A	738	LYS	CD-CE	6.19	1.71	1.52
2	B	633	VAL	C-N	6.19	1.41	1.33
3	C	253	LYS	C-N	6.19	1.41	1.33
6	H	77	ARG	CA-CB	6.19	1.64	1.53
9	K	48	ALA	N-CA	6.19	1.54	1.46
3	C	149	LYS	CA-CB	6.19	1.64	1.53
1	A	830	LYS	C-O	6.18	1.31	1.24
1	A	1222	ASN	C-N	6.18	1.42	1.33
2	B	371	GLU	CG-CD	6.18	1.67	1.52
2	B	824	ILE	CA-CB	6.18	1.61	1.54
9	K	96	ASN	CG-OD1	6.18	1.35	1.23
1	A	347	PHE	N-CA	6.18	1.55	1.46
1	A	909	ASP	CA-C	6.18	1.60	1.52
1	A	997	LEU	CG-CD2	-6.18	1.32	1.52
1	A	1215	ARG	CA-CB	6.18	1.63	1.53
2	B	1168	LEU	N-CA	6.18	1.53	1.45
1	A	378	GLU	CA-C	-6.18	1.45	1.52
1	A	611	GLN	CB-CG	6.18	1.71	1.52
5	F	132	LEU	C-O	6.18	1.31	1.23
8	J	22	LEU	CG-CD1	-6.18	1.32	1.52
2	B	1032	SER	C-O	6.18	1.31	1.24
9	K	101	LEU	CA-C	6.18	1.61	1.52
1	A	215	SER	CA-C	6.18	1.60	1.52
1	A	956	LEU	CG-CD2	-6.18	1.32	1.52
2	B	1080	LYS	CA-CB	6.18	1.63	1.53
1	A	720	ARG	CD-NE	6.17	1.54	1.46
1	A	1450	LEU	CG-CD1	6.17	1.73	1.52
2	B	381	MET	CA-C	-6.17	1.44	1.52
2	B	574	SER	C-O	-6.17	1.17	1.24
2	B	1110	PRO	C-O	6.17	1.35	1.23
2	B	1210	MET	N-CA	-6.17	1.39	1.46
10	L	41	SER	C-O	6.17	1.31	1.24
2	B	166	PHE	CA-C	-6.17	1.44	1.52
2	B	617	ARG	C-O	-6.17	1.16	1.24
2	B	649	LYS	CB-CG	-6.17	1.33	1.52
2	B	887	HIS	C-N	6.17	1.42	1.33
2	B	1135	ARG	CZ-NH1	6.17	1.41	1.32
2	B	997	GLU	CA-C	-6.17	1.44	1.52
1	A	127	ALA	CA-CB	6.17	1.63	1.53
1	A	1016	THR	C-O	6.17	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1021	LEU	N-CA	-6.17	1.38	1.46
1	A	1071	SER	CA-C	-6.17	1.44	1.52
2	B	586	TRP	CE3-CZ3	-6.17	1.20	1.38
2	B	758	PHE	CA-CB	-6.17	1.43	1.53
4	E	87	SER	N-CA	6.17	1.53	1.46
9	K	62	LYS	CG-CD	6.17	1.71	1.52
1	A	982	THR	CB-OG1	-6.17	1.33	1.43
7	I	18	GLU	C-O	6.17	1.31	1.24
8	J	6	ARG	C-N	6.17	1.41	1.33
1	A	1271	ILE	CA-C	-6.16	1.44	1.52
1	A	1338	VAL	CB-CG2	-6.16	1.32	1.52
2	B	587	HIS	CG-ND1	-6.16	1.31	1.38
2	B	763	GLN	C-N	-6.16	1.25	1.33
1	A	846	GLU	CG-CD	6.16	1.67	1.52
3	C	183	TRP	CD2-CE3	-6.16	1.30	1.40
4	E	104	ASN	CA-CB	6.16	1.62	1.53
7	I	74	GLU	CB-CG	6.16	1.71	1.52
1	A	53	LEU	CA-CB	6.16	1.62	1.53
2	B	94	LYS	C-N	6.16	1.42	1.33
1	A	728	LYS	N-CA	-6.16	1.38	1.46
2	B	40	GLU	C-O	-6.16	1.16	1.24
2	B	834	ASN	CG-ND2	6.16	1.46	1.33
4	E	102	GLU	N-CA	-6.16	1.38	1.46
4	E	122	LYS	CA-CB	6.16	1.63	1.53
1	A	642	CYS	CA-CB	-6.16	1.43	1.53
1	A	10	PRO	CA-CB	6.16	1.62	1.53
1	A	1198	ASP	CA-CB	6.16	1.61	1.53
1	A	1426	GLU	CD-OE2	6.16	1.37	1.25
2	B	242	SER	CA-CB	6.16	1.63	1.53
2	B	1170	THR	CB-CG2	6.16	1.72	1.52
2	B	902	GLY	CA-C	-6.15	1.43	1.51
1	A	590	ARG	NE-CZ	-6.15	1.26	1.33
1	A	677	ARG	CZ-NH2	6.15	1.41	1.33
2	B	542	MET	CB-CG	6.15	1.71	1.52
2	B	866	TYR	N-CA	6.15	1.53	1.46
2	B	1193	GLN	CD-NE2	6.15	1.46	1.33
1	A	244	PRO	CA-C	6.15	1.57	1.52
1	A	595	THR	N-CA	-6.15	1.38	1.45
1	A	817	ALA	C-N	-6.15	1.26	1.33
2	B	712	PRO	CB-CG	6.15	1.80	1.49
2	B	838	SER	C-O	-6.15	1.16	1.23
3	C	237	SER	CA-CB	6.15	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	771	GLU	C-N	-6.15	1.25	1.33
1	A	1385	THR	CA-C	6.15	1.65	1.52
8	J	21	TYR	N-CA	6.15	1.54	1.46
1	A	1205	LYS	CD-CE	6.15	1.70	1.52
2	B	370	PHE	CE2-CZ	6.15	1.57	1.38
2	B	768	THR	C-N	-6.15	1.25	1.33
8	J	33	GLY	N-CA	6.15	1.54	1.45
1	A	86	LEU	CA-C	6.15	1.60	1.52
1	A	724	GLU	CA-CB	-6.15	1.43	1.53
2	B	642	ASP	CB-CG	6.15	1.67	1.52
3	C	55	THR	CA-CB	6.15	1.63	1.53
5	F	88	TYR	CZ-OH	6.15	1.50	1.38
1	A	346	ASP	CG-OD2	6.14	1.37	1.25
2	B	1051	THR	N-CA	-6.14	1.38	1.45
4	E	27	GLY	C-O	6.14	1.32	1.23
1	A	266	LEU	N-CA	-6.14	1.37	1.46
2	B	343	ILE	C-N	-6.14	1.25	1.33
1	A	872	GLY	C-N	-6.14	1.24	1.33
1	A	897	TYR	CG-CD2	-6.14	1.26	1.39
1	A	1039	LYS	CG-CD	-6.14	1.34	1.52
1	A	1075	PRO	C-O	-6.14	1.16	1.24
2	B	1053	GLU	C-N	-6.14	1.26	1.33
1	A	620	LYS	CA-CB	6.14	1.63	1.53
1	A	695	LYS	N-CA	-6.14	1.39	1.46
3	C	221	TYR	CA-CB	-6.14	1.43	1.53
7	I	89	GLN	C-N	-6.14	1.25	1.33
1	A	419	LYS	CE-NZ	-6.14	1.30	1.49
3	C	52	GLU	C-N	-6.14	1.25	1.33
1	A	408	ASP	CA-CB	6.13	1.63	1.53
1	A	1304	TRP	C-O	6.13	1.31	1.23
2	B	203	PHE	CA-CB	-6.13	1.44	1.53
2	B	620	ARG	CZ-NH1	6.13	1.41	1.32
2	B	1081	LEU	C-N	-6.13	1.25	1.33
4	E	213	ILE	N-CA	-6.13	1.38	1.46
2	B	180	TYR	CZ-OH	-6.13	1.25	1.38
2	B	1031	LEU	CA-CB	-6.13	1.43	1.53
2	B	536	VAL	C-N	6.13	1.42	1.33
2	B	728	ARG	C-O	-6.13	1.16	1.23
3	C	144	ILE	CB-CG2	-6.13	1.32	1.52
3	C	187	LYS	C-N	-6.13	1.25	1.33
9	K	102	LYS	CB-CG	6.13	1.70	1.52
2	B	19	GLU	CA-C	6.13	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	96	TYR	CE2-CZ	6.13	1.52	1.38
1	A	387	ARG	C-N	-6.13	1.25	1.33
1	A	1064	VAL	CB-CG1	-6.13	1.32	1.52
7	I	15	TYR	CD1-CE1	6.13	1.57	1.38
2	B	536	VAL	CA-CB	-6.12	1.47	1.54
1	A	1336	MET	CA-CB	-6.12	1.43	1.53
2	B	127	GLY	C-O	-6.12	1.15	1.23
2	B	400	HIS	CA-CB	-6.12	1.43	1.53
2	B	727	LYS	CA-C	-6.12	1.44	1.53
2	B	791	THR	C-N	-6.12	1.25	1.33
2	B	961	LEU	CA-CB	6.12	1.63	1.53
1	A	907	THR	CB-OG1	6.12	1.53	1.43
4	E	155	ARG	C-O	6.12	1.31	1.23
4	E	167	ARG	C-O	6.12	1.31	1.24
3	C	119	VAL	CA-CB	6.12	1.61	1.54
1	A	705	LYS	CA-CB	6.12	1.84	1.54
4	E	183	PRO	CB-CG	-6.12	1.19	1.49
4	E	215	MET	CG-SD	6.12	1.96	1.80
6	H	44	VAL	C-N	-6.12	1.25	1.33
2	B	275	TYR	CE2-CZ	-6.12	1.23	1.38
2	B	1183	LYS	N-CA	6.12	1.54	1.46
3	C	263	THR	C-O	-6.12	1.16	1.24
1	A	1212	VAL	CA-C	6.12	1.60	1.52
1	A	1266	THR	CA-CB	6.12	1.63	1.53
5	F	135	ARG	C-O	-6.12	1.16	1.24
1	A	702	LEU	N-CA	-6.11	1.37	1.46
1	A	1109	LYS	CD-CE	6.11	1.70	1.52
2	B	797	TYR	C-N	-6.11	1.25	1.33
1	A	591	PHE	CE1-CZ	-6.11	1.20	1.38
2	B	1176	ASN	CB-CG	6.11	1.67	1.52
7	I	76	PRO	C-O	6.11	1.31	1.24
9	K	73	LEU	C-O	6.11	1.31	1.23
2	B	845	SER	N-CA	-6.11	1.39	1.46
2	B	1214	PRO	CA-C	6.11	1.61	1.52
1	A	1420	ASP	CB-CG	6.11	1.67	1.52
3	C	192	TRP	NE1-CE2	-6.11	1.30	1.37
5	F	133	VAL	C-O	-6.11	1.17	1.24
1	A	1335	ILE	CA-CB	-6.11	1.47	1.54
2	B	56	ASP	CB-CG	-6.11	1.36	1.52
1	A	572	TRP	N-CA	6.11	1.53	1.45
2	B	619	ILE	N-CA	-6.11	1.38	1.46
2	B	766	ARG	C-O	6.11	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1219	ASP	CG-OD2	6.10	1.36	1.25
1	A	865	GLN	C-O	6.10	1.30	1.23
1	A	879	GLU	CD-OE1	6.10	1.36	1.25
2	B	710	LEU	CG-CD2	-6.10	1.32	1.52
7	I	59	VAL	C-N	-6.10	1.26	1.33
1	A	118	HIS	CA-CB	6.10	1.64	1.53
1	A	144	THR	CB-OG1	-6.10	1.33	1.43
2	B	867	GLY	C-O	6.10	1.30	1.23
1	A	139	TRP	C-N	6.10	1.42	1.34
1	A	1327	ILE	CB-CG1	-6.10	1.41	1.53
1	A	1359	ASP	CA-C	-6.09	1.44	1.52
2	B	378	LEU	C-N	-6.09	1.25	1.33
2	B	1080	LYS	CD-CE	6.09	1.70	1.52
3	C	124	LEU	C-N	6.09	1.42	1.33
1	A	847	ASP	N-CA	-6.09	1.38	1.46
2	B	99	LYS	C-O	6.09	1.32	1.24
1	A	162	VAL	CA-C	-6.09	1.45	1.52
1	A	1406	VAL	CA-C	-6.09	1.45	1.52
2	B	273	LEU	CG-CD2	-6.09	1.32	1.52
2	B	642	ASP	CA-CB	6.09	1.61	1.53
8	J	53	HIS	CE1-NE2	-6.09	1.26	1.32
1	A	1340	GLY	N-CA	6.09	1.52	1.45
2	B	850	LEU	CG-CD1	-6.09	1.32	1.52
4	E	146	HIS	C-N	-6.09	1.24	1.33
9	K	78	THR	C-N	6.09	1.41	1.33
1	A	1278	ASN	C-N	-6.09	1.25	1.33
2	B	405	ARG	C-N	-6.09	1.25	1.33
2	B	765	PRO	CA-CB	6.09	1.62	1.53
1	A	1328	TYR	N-CA	6.08	1.53	1.45
4	E	17	ARG	CA-CB	6.08	1.62	1.53
1	A	1344	GLY	C-O	-6.08	1.16	1.23
2	B	800	GLN	C-O	6.08	1.31	1.23
2	B	999	MET	CG-SD	6.08	1.96	1.80
2	B	1143	ALA	CA-C	-6.08	1.46	1.53
2	B	134	LYS	CB-CG	6.08	1.70	1.52
6	H	118	PHE	CD1-CE1	6.08	1.56	1.38
1	A	29	ALA	C-O	6.08	1.31	1.24
1	A	986	ILE	CB-CG2	6.08	1.72	1.52
1	A	1098	VAL	C-N	-6.08	1.26	1.34
2	B	582	VAL	CA-CB	-6.08	1.46	1.54
3	C	43	THR	C-O	6.08	1.30	1.23
7	I	87	GLN	CD-OE1	6.08	1.35	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	439	ASN	CA-C	6.08	1.61	1.52
1	A	939	ASP	N-CA	6.08	1.53	1.46
2	B	1049	ASP	N-CA	6.08	1.54	1.46
9	K	71	PHE	CE1-CZ	-6.08	1.20	1.38
1	A	44	THR	CB-CG2	6.08	1.72	1.52
2	B	1041	GLU	CA-CB	6.08	1.63	1.53
10	L	58	LYS	CE-NZ	6.08	1.67	1.49
2	B	909	ASP	N-CA	6.08	1.54	1.46
2	B	993	THR	CA-CB	-6.08	1.43	1.53
7	I	60	GLN	CD-OE1	6.08	1.35	1.23
1	A	458	HIS	ND1-CE1	-6.07	1.26	1.32
3	C	65	HIS	CA-CB	6.07	1.62	1.53
4	E	207	ARG	CD-NE	6.07	1.54	1.46
9	K	79	GLU	CD-OE1	6.07	1.36	1.25
1	A	469	ARG	C-N	6.07	1.41	1.33
1	A	478	TYR	CG-CD2	-6.07	1.26	1.39
1	A	857	ARG	C-O	-6.07	1.16	1.23
2	B	50	SER	CA-CB	-6.07	1.43	1.53
2	B	979	LYS	CA-CB	-6.07	1.43	1.53
2	B	1130	PHE	CE1-CZ	-6.07	1.20	1.38
3	C	50	GLU	CD-OE2	6.07	1.36	1.25
2	B	303	TYR	CG-CD2	-6.07	1.26	1.39
6	H	105	GLU	CD-OE2	6.07	1.36	1.25
1	A	1259	MET	CA-C	6.07	1.60	1.52
2	B	1223	ASP	C-O	6.07	1.31	1.24
1	A	83	HIS	CA-CB	-6.07	1.43	1.53
1	A	896	ARG	C-O	6.07	1.31	1.24
1	A	1018	PHE	CE2-CZ	6.07	1.56	1.38
2	B	942	ARG	N-CA	-6.07	1.38	1.46
2	B	1139	ILE	C-N	6.07	1.41	1.33
7	I	34	TYR	CG-CD1	-6.07	1.26	1.39
10	L	62	LYS	CG-CD	6.07	1.70	1.52
1	A	890	ASP	N-CA	-6.06	1.39	1.46
1	A	37	PHE	CD2-CE2	6.06	1.56	1.38
1	A	95	PHE	CG-CD1	6.06	1.51	1.38
1	A	501	LEU	C-O	6.06	1.31	1.24
1	A	583	PRO	CA-CB	-6.06	1.43	1.53
1	A	1015	VAL	CA-C	6.06	1.61	1.52
1	A	1169	ILE	CB-CG2	-6.06	1.32	1.52
1	A	1229	SER	C-O	6.06	1.31	1.23
1	A	1289	ARG	C-O	6.06	1.30	1.23
2	B	388	CYS	C-N	-6.06	1.25	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	593	PRO	C-O	-6.06	1.16	1.24
4	E	211	TYR	CD2-CE2	-6.06	1.20	1.38
6	H	80	ARG	C-N	-6.06	1.26	1.33
7	I	25	LEU	CG-CD2	-6.06	1.32	1.52
1	A	935	GLN	CG-CD	-6.06	1.36	1.52
1	A	962	ARG	CA-C	-6.06	1.44	1.52
2	B	423	LYS	CG-CD	6.06	1.70	1.52
2	B	667	GLN	C-N	6.06	1.41	1.33
2	B	725	PRO	CA-C	6.06	1.61	1.52
2	B	865	LYS	C-O	6.06	1.31	1.24
4	E	82	PHE	CD2-CE2	-6.06	1.20	1.38
9	K	105	PHE	CA-C	6.06	1.60	1.52
2	B	133	LYS	C-O	6.06	1.30	1.24
2	B	815	ARG	N-CA	6.06	1.54	1.46
6	H	7	ASP	CG-OD2	6.06	1.36	1.25
2	B	335	GLY	C-N	-6.06	1.25	1.34
2	B	592	ASN	N-CA	6.06	1.54	1.46
4	E	192	ARG	CD-NE	6.06	1.54	1.46
1	A	731	ARG	CA-C	-6.05	1.44	1.52
3	C	123	ASN	CA-C	6.05	1.60	1.52
3	C	183	TRP	NE1-CE2	-6.05	1.30	1.37
2	B	778	MET	N-CA	-6.05	1.38	1.46
2	B	1050	ILE	CB-CG1	6.05	1.65	1.53
1	A	1290	LYS	C-O	6.05	1.31	1.24
2	B	138	GLU	CD-OE2	-6.05	1.13	1.25
2	B	500	THR	CA-C	-6.05	1.45	1.52
1	A	135	PHE	C-O	-6.05	1.17	1.24
1	A	848	ILE	C-O	-6.05	1.17	1.24
2	B	241	ARG	CA-C	-6.05	1.45	1.53
1	A	1194	ARG	CG-CD	-6.05	1.34	1.52
1	A	558	GLY	C-N	-6.04	1.25	1.33
1	A	685	GLU	N-CA	-6.04	1.38	1.46
1	A	852	TYR	CG-CD1	-6.04	1.26	1.39
1	A	348	SER	N-CA	-6.04	1.38	1.45
1	A	497	THR	CB-CG2	-6.04	1.32	1.52
2	B	738	PHE	C-O	6.04	1.31	1.23
4	E	15	ALA	C-O	-6.04	1.16	1.24
4	E	22	MET	CA-CB	-6.04	1.43	1.53
5	F	110	ASP	CB-CG	6.04	1.67	1.52
9	K	50	LEU	CA-C	-6.04	1.44	1.52
1	A	466	SER	CB-OG	-6.04	1.30	1.42
1	A	493	GLN	N-CA	-6.04	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	752	LYS	C-N	6.04	1.41	1.32
1	A	347	PHE	CG-CD2	6.04	1.51	1.38
1	A	1368	MET	CB-CG	6.04	1.70	1.52
2	B	699	GLU	C-N	-6.04	1.25	1.33
3	C	122	SER	CA-CB	6.04	1.64	1.53
10	L	27	LEU	CG-CD1	6.04	1.72	1.52
2	B	612	GLU	CA-CB	-6.04	1.43	1.53
2	B	47	GLN	CA-C	6.04	1.60	1.52
2	B	208	SER	CB-OG	-6.04	1.30	1.42
2	B	322	PHE	CD2-CE2	-6.04	1.20	1.38
2	B	696	GLU	C-O	6.03	1.31	1.24
3	C	211	ASP	CA-C	6.03	1.60	1.52
1	A	361	LEU	CG-CD1	6.03	1.72	1.52
1	A	629	LEU	CA-C	6.03	1.60	1.52
1	A	877	HIS	C-N	-6.03	1.24	1.33
1	A	1421	CYS	N-CA	-6.03	1.37	1.46
3	C	267	GLN	CD-OE1	6.03	1.35	1.23
2	B	1062	HIS	C-N	6.03	1.41	1.33
3	C	84	ARG	C-O	-6.03	1.16	1.24
4	E	129	PRO	N-CD	6.03	1.56	1.47
2	B	377	PHE	CE2-CZ	-6.03	1.20	1.38
1	A	836	TYR	CB-CG	6.03	1.65	1.51
1	A	669	THR	N-CA	-6.03	1.38	1.46
1	A	1099	PRO	CB-CG	6.03	1.79	1.49
1	A	1410	PHE	CG-CD1	-6.03	1.26	1.38
2	B	359	GLU	CD-OE1	6.03	1.36	1.25
2	B	566	LEU	CA-CB	-6.03	1.44	1.53
2	B	881	ASN	N-CA	6.03	1.53	1.46
3	C	24	ASN	CG-ND2	6.03	1.46	1.33
2	B	561	TRP	N-CA	-6.02	1.39	1.46
2	B	802	PRO	C-O	-6.02	1.17	1.23
2	B	968	VAL	C-O	-6.02	1.17	1.24
2	B	986	GLN	C-N	-6.02	1.24	1.33
4	E	115	ASN	CG-OD1	6.02	1.34	1.23
6	H	114	VAL	CA-CB	-6.02	1.45	1.55
3	C	268	ASP	CA-C	6.02	1.65	1.52
1	A	614	PHE	C-N	6.02	1.39	1.32
1	A	620	LYS	CG-CD	6.02	1.70	1.52
10	L	67	PHE	CG-CD2	-6.02	1.26	1.38
1	A	461	LYS	CB-CG	-6.02	1.34	1.52
1	A	1342	GLU	N-CA	-6.02	1.39	1.46
2	B	450	ALA	CA-C	-6.02	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1418	LEU	CG-CD1	6.01	1.72	1.52
2	B	851	PHE	CG-CD2	6.01	1.51	1.38
2	B	1101	ASP	CG-OD2	6.01	1.36	1.25
4	E	155	ARG	C-N	-6.01	1.25	1.33
6	H	27	GLU	CA-C	-6.01	1.45	1.53
9	K	29	ASN	CA-C	-6.01	1.45	1.53
7	I	110	PHE	CE2-CZ	-6.01	1.20	1.38
1	A	10	PRO	CG-CD	6.01	1.71	1.50
1	A	519	PRO	CG-CD	-6.01	1.30	1.50
1	A	974	ASP	C-O	-6.01	1.16	1.24
3	C	199	LYS	CB-CG	6.01	1.70	1.52
9	K	79	GLU	C-O	-6.01	1.16	1.23
2	B	657	HIS	CD2-NE2	6.01	1.44	1.37
3	C	207	CYS	N-CA	6.01	1.53	1.46
1	A	1274	ARG	CA-C	-6.01	1.45	1.52
2	B	784	ASN	C-O	-6.01	1.14	1.23
5	F	89	GLU	C-O	6.01	1.31	1.24
1	A	1331	SER	N-CA	-6.01	1.39	1.46
2	B	1008	PRO	CG-CD	-6.01	1.30	1.50
7	I	78	CYS	CA-C	6.01	1.61	1.52
7	I	11	ASN	CG-ND2	-6.00	1.20	1.33
8	J	1	MET	C-N	6.00	1.40	1.33
1	A	429	GLY	C-N	6.00	1.41	1.33
2	B	458	LYS	C-O	-6.00	1.17	1.24
8	J	56	LEU	CG-CD1	-6.00	1.32	1.52
1	A	235	ILE	CA-CB	-6.00	1.47	1.54
1	A	1135	ARG	CZ-NH1	6.00	1.41	1.32
2	B	245	GLU	CB-CG	6.00	1.70	1.52
2	B	646	LEU	CA-C	-6.00	1.44	1.52
2	B	724	ASP	CA-C	6.00	1.60	1.52
2	B	825	VAL	C-O	-6.00	1.17	1.24
1	A	942	PHE	CE2-CZ	-6.00	1.20	1.38
1	A	1284	MET	CB-CG	-6.00	1.34	1.52
2	B	792	MET	C-N	-6.00	1.26	1.33
6	H	58	THR	C-O	6.00	1.30	1.24
1	A	1422	ARG	CZ-NH1	6.00	1.41	1.32
2	B	464	GLY	C-O	6.00	1.31	1.24
2	B	659	ALA	C-O	-6.00	1.16	1.24
3	C	106	GLU	CD-OE2	6.00	1.36	1.25
2	B	90	ILE	CA-C	5.99	1.60	1.52
2	B	325	GLN	CD-NE2	5.99	1.45	1.33
2	B	1140	ALA	CA-C	5.99	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	576	ASP	CG-OD2	-5.99	1.14	1.25
4	E	60	PHE	CG-CD1	5.99	1.51	1.38
1	A	520	CYS	CA-C	5.99	1.60	1.52
1	A	632	VAL	CA-CB	5.99	1.60	1.54
5	F	128	LYS	CG-CD	5.99	1.70	1.52
1	A	1261	LYS	C-N	-5.99	1.26	1.33
4	E	131	THR	C-N	-5.99	1.25	1.33
1	A	942	PHE	CG-CD1	-5.99	1.26	1.38
2	B	210	LYS	CA-CB	5.99	1.65	1.53
2	B	1136	ASP	CA-CB	-5.99	1.44	1.53
1	A	48	ALA	C-O	5.99	1.31	1.24
1	A	1199	ARG	CB-CG	5.99	1.70	1.52
1	A	1336	MET	CG-SD	-5.99	1.65	1.80
1	A	1365	TYR	CG-CD2	5.99	1.51	1.39
2	B	729	ILE	N-CA	-5.99	1.38	1.46
4	E	177	ARG	C-N	-5.99	1.25	1.33
1	A	478	TYR	CD2-CE2	-5.98	1.20	1.38
1	A	748	MET	CA-C	5.98	1.60	1.52
2	B	1192	TYR	CA-CB	-5.98	1.42	1.54
6	H	33	GLN	N-CA	5.98	1.53	1.46
1	A	587	HIS	CA-CB	5.98	1.64	1.53
1	A	1417	GLU	CD-OE1	5.98	1.36	1.25
4	E	74	ASP	C-N	-5.98	1.25	1.33
4	E	173	SER	CA-CB	-5.98	1.42	1.53
2	B	603	LEU	CA-CB	-5.98	1.43	1.53
2	B	751	VAL	N-CA	5.98	1.53	1.46
1	A	134	ARG	NE-CZ	5.98	1.39	1.33
1	A	13	THR	N-CA	5.98	1.53	1.45
1	A	376	TYR	CA-C	5.98	1.59	1.52
2	B	415	GLN	C-O	-5.98	1.17	1.24
2	B	683	SER	C-N	-5.98	1.26	1.33
1	A	1193	LEU	C-O	5.97	1.31	1.24
1	A	567	LYS	CD-CE	5.97	1.70	1.52
1	A	1412	ALA	CA-CB	5.97	1.62	1.53
2	B	678	GLU	N-CA	5.97	1.57	1.46
2	B	702	LEU	N-CA	-5.97	1.38	1.46
2	B	1047	PHE	CB-CG	-5.97	1.36	1.50
1	A	284	ALA	C-N	5.97	1.41	1.33
5	F	92	ARG	CZ-NH1	5.97	1.41	1.32
1	A	246	VAL	N-CA	5.97	1.53	1.46
2	B	1040	ASN	CB-CG	-5.97	1.37	1.52
2	B	1176	ASN	CA-C	5.97	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	169	ARG	CD-NE	5.97	1.54	1.46
5	F	97	ARG	CZ-NH2	-5.97	1.25	1.33
2	B	459	TYR	CD2-CE2	5.97	1.56	1.38
4	E	32	GLN	CG-CD	5.97	1.67	1.52
2	B	134	LYS	CD-CE	5.96	1.70	1.52
2	B	664	THR	CB-CG2	5.96	1.72	1.52
6	H	97	MET	CA-C	5.96	1.60	1.52
2	B	289	LEU	C-O	-5.96	1.16	1.24
2	B	698	GLU	C-O	5.96	1.31	1.24
2	B	797	TYR	C-O	5.96	1.30	1.24
1	A	293	GLU	N-CA	5.96	1.53	1.46
2	B	249	ARG	CB-CG	5.96	1.70	1.52
6	H	121	LEU	CG-CD1	-5.96	1.32	1.52
1	A	734	GLU	CG-CD	5.96	1.67	1.52
6	H	36	CYS	CA-CB	5.96	1.61	1.53
1	A	127	ALA	C-O	5.96	1.31	1.24
8	J	10	CYS	N-CA	5.96	1.54	1.46
1	A	485	ASP	C-N	-5.96	1.25	1.33
2	B	1149	GLU	C-N	-5.96	1.25	1.33
2	B	1166	CYS	C-N	-5.96	1.24	1.33
1	A	236	LEU	CB-CG	5.95	1.65	1.53
1	A	602	ASP	CA-CB	-5.95	1.43	1.53
5	F	110	ASP	CA-CB	5.95	1.61	1.53
5	F	138	LEU	CG-CD2	-5.95	1.32	1.52
2	B	1076	HIS	CA-C	5.95	1.60	1.52
1	A	80	HIS	C-O	5.95	1.31	1.23
1	A	572	TRP	CD2-CE3	-5.95	1.30	1.40
1	A	712	GLU	C-O	-5.95	1.16	1.24
1	A	932	GLU	C-N	-5.95	1.26	1.33
1	A	1445	ILE	CB-CG1	5.95	1.65	1.53
4	E	168	TYR	CD1-CE1	5.95	1.56	1.38
1	A	1103	GLU	CB-CG	-5.95	1.34	1.52
2	B	279	ASP	CA-C	5.95	1.60	1.52
2	B	500	THR	N-CA	-5.95	1.36	1.46
2	B	1014	PRO	N-CD	-5.95	1.39	1.47
7	I	99	LEU	N-CA	5.95	1.53	1.46
1	A	822	GLU	N-CA	5.95	1.53	1.46
7	I	84	VAL	CB-CG1	-5.95	1.32	1.52
1	A	87	ALA	CA-CB	-5.95	1.44	1.53
1	A	909	ASP	CB-CG	-5.95	1.37	1.52
1	A	999	VAL	CB-CG1	-5.95	1.32	1.52
8	J	41	LEU	C-O	5.95	1.30	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1333	ILE	CB-CG2	-5.94	1.32	1.52
2	B	792	MET	CA-C	-5.94	1.45	1.52
3	C	224	GLN	N-CA	5.94	1.53	1.45
1	A	1076	ALA	CA-CB	-5.94	1.43	1.53
2	B	121	ASN	CG-ND2	5.94	1.45	1.33
2	B	539	LEU	CG-CD2	-5.94	1.32	1.52
3	C	239	PRO	CA-C	-5.94	1.46	1.52
7	I	97	MET	CA-CB	-5.94	1.45	1.53
1	A	524	VAL	CB-CG1	5.94	1.72	1.52
1	A	1188	GLN	CA-CB	5.94	1.61	1.53
2	B	1078	GLY	N-CA	-5.94	1.36	1.45
3	C	49	VAL	CB-CG1	5.94	1.72	1.52
2	B	588	GLY	CA-C	-5.94	1.43	1.51
2	B	211	VAL	N-CA	-5.94	1.39	1.46
2	B	968	VAL	CA-C	5.94	1.59	1.52
4	E	197	LYS	N-CA	-5.94	1.38	1.46
6	H	11	GLN	CA-CB	5.94	1.61	1.53
9	K	52	ASN	CG-ND2	5.94	1.45	1.33
1	A	834	THR	CA-C	-5.94	1.45	1.52
1	A	1044	TRP	CZ2-CH2	5.94	1.48	1.37
1	A	1350	LYS	CA-C	5.94	1.60	1.52
2	B	1145	SER	CA-CB	-5.93	1.43	1.53
8	J	62	ARG	CZ-NH2	5.93	1.41	1.33
1	A	228	PHE	CD2-CE2	-5.93	1.20	1.38
2	B	609	ILE	N-CA	5.93	1.53	1.46
2	B	904	ARG	CZ-NH1	-5.93	1.24	1.32
1	A	350	ARG	CZ-NH2	-5.93	1.25	1.33
1	A	1052	GLN	CD-OE1	5.93	1.34	1.23
3	C	189	THR	CA-CB	-5.93	1.41	1.54
4	E	54	GLN	CG-CD	5.93	1.66	1.52
2	B	62	ILE	CA-CB	5.93	1.62	1.54
2	B	217	ARG	N-CA	-5.93	1.38	1.45
2	B	316	PRO	C-O	-5.93	1.16	1.24
2	B	980	PHE	C-N	-5.93	1.26	1.33
3	C	9	LYS	CG-CD	5.93	1.70	1.52
5	F	105	ALA	C-N	-5.93	1.26	1.33
7	I	49	ILE	CB-CG1	5.93	1.65	1.53
2	B	728	ARG	CZ-NH1	-5.92	1.24	1.32
2	B	807	ARG	C-O	5.92	1.31	1.24
7	I	34	TYR	CD2-CE2	-5.92	1.20	1.38
10	L	56	LEU	CG-CD1	-5.92	1.33	1.52
1	A	661	GLY	N-CA	5.92	1.52	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	550	LEU	CA-C	-5.92	1.45	1.52
1	A	1332	PHE	CA-C	-5.92	1.44	1.52
2	B	360	PHE	CG-CD1	-5.92	1.26	1.38
6	H	44	VAL	N-CA	-5.92	1.39	1.46
2	B	909	ASP	C-O	-5.92	1.16	1.23
1	A	435	HIS	CA-C	5.92	1.61	1.53
2	B	259	TYR	CG-CD2	5.92	1.51	1.39
2	B	433	GLN	CA-C	-5.92	1.44	1.52
2	B	895	ASP	CG-OD2	5.92	1.36	1.25
1	A	529	CYS	C-O	-5.92	1.17	1.24
1	A	1133	LEU	C-O	5.92	1.31	1.24
1	A	1312	ASN	CB-CG	-5.92	1.37	1.52
2	B	215	GLN	N-CA	-5.92	1.38	1.46
1	A	666	ILE	N-CA	5.91	1.54	1.46
1	A	894	GLU	C-O	5.91	1.31	1.24
2	B	573	GLN	C-O	-5.91	1.16	1.24
2	B	788	ARG	C-N	-5.91	1.25	1.33
3	C	69	LEU	CB-CG	5.91	1.65	1.53
4	E	156	LEU	CA-C	5.91	1.60	1.52
7	I	64	SER	C-N	5.91	1.42	1.33
8	J	1	MET	CA-CB	-5.91	1.41	1.53
3	C	241	ASP	C-N	5.91	1.42	1.33
2	B	501	PRO	C-O	5.91	1.30	1.23
2	B	1020	ARG	CA-CB	-5.91	1.43	1.53
3	C	12	GLU	C-O	5.91	1.30	1.23
2	B	381	MET	CB-CG	-5.91	1.34	1.52
7	I	111	THR	C-O	-5.91	1.17	1.23
8	J	57	ILE	CA-CB	-5.91	1.46	1.54
1	A	280	GLU	N-CA	-5.91	1.38	1.46
1	A	378	GLU	CD-OE1	-5.91	1.14	1.25
1	A	1053	PHE	CA-CB	-5.91	1.43	1.53
1	A	1241	ARG	CZ-NH1	5.91	1.41	1.32
1	A	1305	VAL	N-CA	5.91	1.53	1.46
2	B	120	ARG	CZ-NH2	5.91	1.41	1.33
2	B	191	LYS	CE-NZ	5.91	1.67	1.49
2	B	1179	GLN	C-N	-5.91	1.25	1.33
3	C	191	TYR	CD1-CE1	5.91	1.56	1.38
1	A	1165	GLU	CD-OE1	5.90	1.36	1.25
2	B	668	ASP	CG-OD1	5.90	1.36	1.25
6	H	37	LYS	N-CA	5.90	1.53	1.45
9	K	77	THR	CB-CG2	5.90	1.72	1.52
2	B	377	PHE	CA-C	-5.90	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	758	PHE	CG-CD1	-5.90	1.26	1.38
2	B	908	GLU	C-N	5.90	1.41	1.33
7	I	116	ASN	N-CA	5.90	1.53	1.46
1	A	721	PHE	CB-CG	5.90	1.64	1.50
2	B	1039	GLY	C-O	-5.90	1.16	1.24
7	I	119	THR	C-N	5.90	1.40	1.33
6	H	88	SER	CA-CB	5.90	1.63	1.53
1	A	738	LYS	CE-NZ	5.90	1.67	1.49
1	A	978	PRO	CB-CG	5.90	1.79	1.49
2	B	100	PRO	CB-CG	-5.90	1.20	1.49
2	B	515	HIS	C-O	-5.90	1.16	1.24
3	C	33	LEU	CA-CB	5.90	1.63	1.53
4	E	193	GLY	C-N	5.90	1.41	1.33
6	H	4	THR	CA-C	5.90	1.60	1.52
1	A	461	LYS	CE-NZ	5.90	1.67	1.49
1	A	1143	LEU	CB-CG	-5.90	1.41	1.53
3	C	48	SER	C-O	-5.90	1.16	1.23
3	C	143	LEU	CA-C	-5.90	1.45	1.52
1	A	236	LEU	CG-CD2	-5.89	1.33	1.52
1	A	432	VAL	CA-CB	-5.89	1.46	1.53
1	A	880	LYS	CE-NZ	5.89	1.67	1.49
1	A	1195	LEU	CA-CB	-5.89	1.40	1.53
4	E	115	ASN	CB-CG	5.89	1.66	1.52
8	J	15	GLY	C-O	5.89	1.31	1.24
1	A	231	PRO	CA-C	5.89	1.60	1.52
1	A	791	ASP	C-N	5.89	1.41	1.33
1	A	854	ASN	CG-OD1	5.89	1.34	1.23
2	B	394	ASP	CG-OD1	5.89	1.36	1.25
4	E	64	PRO	CA-CB	-5.89	1.45	1.53
2	B	582	VAL	C-O	-5.89	1.17	1.24
1	A	1257	ASP	CB-CG	-5.89	1.37	1.52
10	L	38	LEU	N-CA	-5.89	1.37	1.45
1	A	298	PHE	CA-C	-5.89	1.44	1.52
1	A	838	GLN	N-CA	-5.89	1.39	1.46
2	B	336	ARG	N-CA	-5.89	1.39	1.46
5	F	90	ARG	N-CA	-5.89	1.39	1.46
5	F	129	LYS	N-CA	5.89	1.52	1.46
10	L	29	TYR	CG-CD1	-5.89	1.26	1.39
1	A	467	THR	CB-CG2	-5.88	1.33	1.52
1	A	497	THR	C-O	-5.88	1.17	1.24
2	B	692	TYR	CE2-CZ	-5.88	1.24	1.38
3	C	220	ASP	CB-CG	5.88	1.66	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	230	MET	CA-CB	-5.88	1.44	1.53
1	A	689	LYS	CD-CE	5.88	1.70	1.52
2	B	103	ASN	C-O	5.88	1.31	1.24
2	B	516	ASN	CA-C	-5.88	1.44	1.52
2	B	602	THR	CB-CG2	-5.88	1.33	1.52
4	E	137	GLU	C-O	5.88	1.31	1.24
1	A	377	PRO	CA-CB	5.88	1.62	1.53
1	A	702	LEU	CA-CB	-5.88	1.44	1.53
1	A	790	ASP	N-CA	-5.88	1.37	1.46
1	A	714	PHE	CA-CB	-5.88	1.44	1.53
1	A	1109	LYS	C-O	5.88	1.31	1.24
2	B	206	ASN	CA-CB	5.88	1.62	1.53
2	B	875	GLU	CD-OE2	5.88	1.36	1.25
3	C	147	LEU	C-N	-5.88	1.24	1.33
2	B	116	GLU	CD-OE2	5.88	1.36	1.25
1	A	1358	SER	CA-C	5.87	1.60	1.52
3	C	110	THR	CB-CG2	-5.87	1.33	1.52
1	A	188	ASP	C-N	5.87	1.42	1.33
1	A	893	PHE	CE2-CZ	-5.87	1.21	1.38
1	A	924	LYS	CG-CD	5.87	1.70	1.52
10	L	40	LEU	CG-CD1	5.87	1.72	1.52
2	B	1097	HIS	CB-CG	-5.87	1.42	1.50
1	A	1304	TRP	CA-CB	-5.87	1.44	1.53
6	H	108	SER	N-CA	5.87	1.53	1.45
1	A	358	ASN	CA-CB	-5.87	1.44	1.53
1	A	1154	TYR	CG-CD2	-5.87	1.27	1.39
2	B	728	ARG	NE-CZ	-5.87	1.26	1.33
2	B	1030	LEU	C-O	-5.87	1.17	1.24
1	A	180	LYS	CE-NZ	-5.86	1.31	1.49
1	A	370	ILE	CB-CG2	-5.86	1.33	1.52
2	B	837	ASP	CG-OD1	-5.86	1.14	1.25
2	B	1159	ARG	CG-CD	5.86	1.70	1.52
1	A	516	SER	CA-CB	-5.86	1.44	1.53
1	A	1152	ILE	CB-CG1	-5.86	1.41	1.53
1	A	1284	MET	SD-CE	-5.86	1.64	1.79
3	C	56	THR	CA-CB	-5.86	1.43	1.53
2	B	90	ILE	C-O	5.86	1.31	1.24
2	B	537	LYS	CA-C	-5.86	1.45	1.52
2	B	1072	MET	CB-CG	-5.86	1.34	1.52
3	C	244	VAL	C-O	5.86	1.30	1.24
1	A	965	GLN	C-N	-5.86	1.26	1.33
2	B	1216	LEU	N-CA	-5.86	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	K	48	ALA	CA-C	-5.86	1.44	1.52
2	B	21	GLU	CG-CD	5.86	1.66	1.52
2	B	1026	LEU	CA-CB	-5.86	1.44	1.53
2	B	1207	LEU	CA-CB	-5.86	1.43	1.53
1	A	513	SER	N-CA	-5.86	1.36	1.45
2	B	310	MET	C-N	-5.86	1.26	1.33
4	E	46	TYR	CD2-CE2	5.86	1.56	1.38
6	H	35	GLN	CG-CD	5.86	1.66	1.52
2	B	812	LEU	CA-CB	-5.85	1.43	1.53
3	C	17	ASN	CG-OD1	5.85	1.34	1.23
1	A	706	HIS	CA-C	-5.85	1.45	1.52
2	B	336	ARG	CB-CG	-5.85	1.34	1.52
2	B	552	MET	CA-C	5.85	1.60	1.52
1	A	182	VAL	N-CA	5.85	1.52	1.46
1	A	712	GLU	CD-OE2	5.85	1.36	1.25
2	B	1038	SER	CA-C	5.85	1.60	1.52
3	C	224	GLN	CD-OE1	5.85	1.34	1.23
10	L	65	VAL	CB-CG2	5.85	1.71	1.52
1	A	192	GLY	C-O	5.85	1.30	1.23
1	A	880	LYS	CG-CD	5.85	1.70	1.52
2	B	322	PHE	CD1-CE1	-5.85	1.21	1.38
2	B	536	VAL	C-O	5.85	1.30	1.24
2	B	592	ASN	C-N	-5.85	1.26	1.33
2	B	602	THR	C-O	-5.85	1.17	1.24
2	B	667	GLN	CA-CB	5.85	1.60	1.52
2	B	700	SER	C-O	-5.85	1.16	1.24
2	B	936	ASP	CA-C	5.85	1.60	1.52
9	K	85	ASP	CB-CG	5.85	1.66	1.52
10	L	69	ALA	C-O	5.85	1.31	1.23
2	B	377	PHE	CA-CB	-5.85	1.43	1.53
2	B	426	LYS	CB-CG	5.85	1.70	1.52
4	E	60	PHE	C-N	-5.85	1.25	1.33
6	H	63	LEU	CA-C	5.85	1.65	1.52
1	A	135	PHE	CG-CD1	-5.84	1.26	1.38
2	B	661	LEU	CG-CD2	5.84	1.71	1.52
2	B	941	LEU	N-CA	-5.84	1.38	1.46
3	C	219	PHE	CG-CD1	5.84	1.51	1.38
7	I	112	SER	C-N	5.84	1.41	1.33
2	B	1110	PRO	N-CD	5.84	1.55	1.47
4	E	91	LYS	C-N	5.84	1.41	1.33
2	B	564	GLU	CA-CB	5.84	1.61	1.53
2	B	962	LYS	CE-NZ	5.84	1.66	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	965	LYS	CA-CB	5.84	1.64	1.53
6	H	35	GLN	CD-OE1	5.84	1.34	1.23
9	K	95	ILE	CA-CB	-5.84	1.46	1.54
1	A	1292	PRO	CA-CB	-5.84	1.45	1.53
2	B	130	VAL	CA-CB	5.84	1.62	1.54
2	B	220	GLY	C-N	-5.84	1.25	1.33
2	B	299	GLU	C-N	-5.84	1.25	1.33
2	B	852	ARG	C-N	-5.84	1.26	1.33
2	B	202	TYR	C-O	-5.84	1.16	1.23
1	A	935	GLN	CD-OE1	-5.84	1.12	1.23
2	B	1187	ASN	CA-C	5.84	1.59	1.52
3	C	99	LEU	CB-CG	-5.84	1.41	1.53
3	C	192	TRP	CZ3-CH2	5.84	1.55	1.40
2	B	28	GLU	CA-CB	-5.83	1.43	1.53
1	A	38	PRO	CB-CG	-5.83	1.20	1.49
1	A	874	ASP	CA-CB	-5.83	1.44	1.53
2	B	199	MET	CA-CB	5.83	1.62	1.54
2	B	383	ASN	CG-ND2	5.83	1.45	1.33
2	B	478	GLY	CA-C	5.83	1.59	1.51
2	B	603	LEU	CG-CD2	-5.83	1.33	1.52
1	A	383	TYR	C-N	-5.83	1.25	1.33
2	B	536	VAL	CB-CG1	-5.83	1.33	1.52
2	B	944	THR	N-CA	5.83	1.53	1.46
4	E	80	VAL	CA-CB	5.83	1.63	1.54
8	J	47	ARG	CA-CB	-5.83	1.44	1.53
1	A	417	TYR	CG-CD2	5.83	1.51	1.39
1	A	434	ARG	CB-CG	-5.83	1.34	1.52
1	A	77	CYS	C-O	5.83	1.32	1.24
1	A	765	VAL	CA-CB	-5.83	1.46	1.54
1	A	1134	ILE	CB-CG2	-5.83	1.33	1.52
2	B	384	ARG	CB-CG	5.83	1.70	1.52
3	C	67	LEU	CG-CD1	-5.83	1.33	1.52
3	C	215	GLU	CD-OE1	5.83	1.36	1.25
6	H	79	TRP	N-CA	-5.83	1.38	1.45
7	I	93	LYS	CB-CG	5.83	1.70	1.52
2	B	977	GLY	N-CA	5.83	1.53	1.45
9	K	52	ASN	C-O	-5.83	1.16	1.24
1	A	653	VAL	CB-CG1	-5.83	1.33	1.52
1	A	1011	GLN	CA-C	5.83	1.60	1.52
1	A	1018	PHE	CE1-CZ	-5.83	1.21	1.38
1	A	1370	LEU	CB-CG	5.83	1.65	1.53
2	B	975	GLN	CB-CG	-5.83	1.34	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	H	26	ILE	C-N	5.83	1.43	1.33
1	A	107	CYS	CA-CB	5.82	1.61	1.53
1	A	366	VAL	CB-CG1	-5.82	1.33	1.52
1	A	526	ASP	CA-CB	5.82	1.62	1.53
1	A	1043	ASP	C-O	-5.82	1.16	1.24
2	B	277	LYS	CD-CE	5.82	1.70	1.52
3	C	160	LYS	N-CA	5.82	1.53	1.46
5	F	77	ASP	CA-C	-5.82	1.45	1.53
1	A	591	PHE	CG-CD2	-5.82	1.26	1.38
1	A	1326	ARG	CA-C	5.82	1.60	1.52
3	C	186	LEU	C-O	-5.82	1.16	1.24
9	K	14	GLU	CA-CB	5.82	1.63	1.53
2	B	605	ARG	CG-CD	5.82	1.70	1.52
2	B	983	ARG	CG-CD	5.82	1.70	1.52
3	C	209	TYR	C-O	-5.82	1.16	1.24
7	I	59	VAL	N-CA	5.82	1.52	1.46
1	A	142	CYS	CA-CB	5.82	1.62	1.54
1	A	905	ASP	CB-CG	-5.82	1.37	1.52
4	E	2	ASP	CA-CB	5.82	1.63	1.53
1	A	446	ARG	CD-NE	-5.82	1.38	1.46
2	B	519	TRP	CB-CG	5.82	1.68	1.50
2	B	533	CYS	C-N	-5.82	1.26	1.34
2	B	757	PRO	N-CA	-5.82	1.40	1.47
8	J	20	SER	C-O	5.82	1.31	1.24
9	K	40	HIS	CA-C	5.82	1.60	1.52
1	A	420	ARG	CZ-NH1	-5.82	1.24	1.32
1	A	497	THR	CB-OG1	5.82	1.53	1.43
1	A	992	ASP	CG-OD2	5.82	1.36	1.25
4	E	114	ASN	CB-CG	-5.82	1.37	1.52
8	J	18	TRP	NE1-CE2	-5.82	1.31	1.37
1	A	714	PHE	CE2-CZ	5.81	1.56	1.38
1	A	861	GLY	CA-C	-5.81	1.43	1.51
2	B	56	ASP	N-CA	-5.81	1.38	1.46
3	C	193	TYR	CB-CG	5.81	1.64	1.51
5	F	141	GLY	N-CA	5.81	1.54	1.44
1	A	350	ARG	NE-CZ	-5.81	1.26	1.33
2	B	621	GLU	C-O	-5.81	1.16	1.24
10	L	49	LYS	CA-C	5.81	1.60	1.52
2	B	616	ILE	CB-CG2	5.81	1.71	1.52
1	A	66	LYS	CG-CD	5.81	1.69	1.52
1	A	531	ILE	CA-CB	-5.81	1.46	1.54
1	A	593	GLU	CD-OE2	5.81	1.36	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	611	GLN	C-O	5.81	1.30	1.23
2	B	224	GLN	C-N	-5.81	1.20	1.33
2	B	1183	LYS	CG-CD	5.81	1.69	1.52
1	A	1066	VAL	CB-CG2	5.81	1.71	1.52
4	E	129	PRO	N-CA	5.81	1.57	1.47
1	A	452	LYS	CD-CE	-5.80	1.35	1.52
2	B	279	ASP	CB-CG	5.80	1.66	1.52
2	B	332	ASP	C-N	-5.80	1.26	1.33
3	C	8	VAL	CB-CG2	-5.80	1.33	1.52
3	C	40	GLU	CD-OE2	5.80	1.36	1.25
1	A	944	ARG	CA-CB	-5.80	1.43	1.53
2	B	1015	HIS	CA-C	5.80	1.60	1.52
4	E	117	THR	CB-CG2	-5.80	1.33	1.52
4	E	134	THR	C-O	5.80	1.30	1.23
1	A	906	HIS	CA-CB	-5.80	1.45	1.53
2	B	993	THR	CB-OG1	-5.80	1.34	1.43
2	B	1071	VAL	CA-C	-5.80	1.45	1.52
4	E	119	SER	N-CA	5.80	1.54	1.45
6	H	31	THR	CA-C	5.80	1.60	1.52
6	H	118	PHE	CA-C	5.80	1.60	1.53
8	J	48	ARG	CZ-NH2	-5.80	1.25	1.33
1	A	134	ARG	CB-CG	-5.80	1.35	1.52
1	A	143	LYS	CG-CD	5.80	1.69	1.52
1	A	841	LEU	CA-C	5.80	1.60	1.52
1	A	1368	MET	CA-CB	5.80	1.62	1.53
2	B	461	LEU	N-CA	5.80	1.53	1.46
2	B	637	LEU	CA-C	5.80	1.59	1.52
2	B	626	ILE	CB-CG2	-5.80	1.33	1.52
1	A	728	LYS	C-N	-5.80	1.25	1.33
1	A	1165	GLU	CA-CB	-5.80	1.42	1.53
2	B	189	LEU	CB-CG	-5.80	1.41	1.53
2	B	1060	ARG	CA-C	5.80	1.60	1.52
1	A	1045	VAL	C-N	-5.79	1.25	1.33
1	A	1153	TYR	CZ-OH	5.79	1.50	1.38
2	B	31	TRP	NE1-CE2	-5.79	1.31	1.37
2	B	835	GLN	C-O	-5.79	1.16	1.23
9	K	94	ILE	C-N	5.79	1.41	1.34
1	A	1305	VAL	CA-C	-5.79	1.45	1.52
2	B	1030	LEU	C-N	-5.79	1.25	1.33
2	B	1191	ILE	C-N	5.79	1.41	1.33
6	H	83	GLN	N-CA	5.79	1.53	1.46
1	A	455	MET	CA-C	-5.79	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	922	ASP	CA-C	-5.79	1.45	1.52
1	A	960	ILE	C-O	-5.79	1.17	1.24
1	A	1006	ILE	C-O	5.79	1.30	1.24
2	B	694	ASP	CB-CG	5.79	1.66	1.52
1	A	1168	GLU	N-CA	5.79	1.53	1.46
2	B	1034	VAL	C-O	-5.79	1.17	1.24
1	A	708	MET	C-O	5.79	1.31	1.24
1	A	1023	ARG	C-O	-5.79	1.16	1.24
2	B	367	LEU	CA-CB	5.79	1.62	1.53
2	B	430	ARG	N-CA	5.79	1.53	1.45
2	B	620	ARG	NE-CZ	-5.79	1.26	1.33
7	I	31	THR	N-CA	-5.79	1.38	1.46
1	A	433	GLU	CD-OE2	5.79	1.36	1.25
2	B	1000	PRO	CB-CG	-5.79	1.20	1.49
1	A	349	ALA	CA-CB	-5.79	1.43	1.53
2	B	1068	GLY	N-CA	5.79	1.53	1.45
1	A	114	LEU	C-O	-5.78	1.16	1.24
1	A	899	VAL	N-CA	5.78	1.53	1.46
2	B	368	GLU	CB-CG	5.78	1.69	1.52
2	B	612	GLU	C-N	-5.78	1.26	1.33
2	B	889	THR	CA-C	-5.78	1.45	1.52
3	C	166	GLU	CG-CD	5.78	1.66	1.52
4	E	79	TRP	CG-CD1	5.78	1.51	1.36
1	A	215	SER	C-N	5.78	1.41	1.33
2	B	706	GLN	C-N	-5.78	1.25	1.33
1	A	499	ALA	C-N	-5.78	1.26	1.33
2	B	49	ASP	CG-OD2	5.78	1.36	1.25
2	B	56	ASP	C-N	-5.78	1.25	1.33
7	I	51	ASN	CB-CG	5.78	1.66	1.52
1	A	1269	GLU	CD-OE2	5.78	1.36	1.25
2	B	67	SER	C-O	-5.78	1.17	1.24
2	B	772	ALA	CA-CB	5.78	1.62	1.53
6	H	99	GLY	C-O	5.78	1.31	1.23
9	K	114	LEU	CG-CD2	5.78	1.71	1.52
1	A	556	TRP	CZ3-CH2	5.78	1.54	1.40
1	A	1094	VAL	CA-C	5.78	1.59	1.52
2	B	304	ASP	C-O	-5.78	1.17	1.23
2	B	581	PHE	CA-CB	5.78	1.67	1.53
1	A	1328	TYR	CD1-CE1	-5.78	1.21	1.38
2	B	1143	ALA	C-O	-5.78	1.14	1.23
3	C	20	PHE	N-CA	5.78	1.54	1.46
5	F	76	LYS	N-CA	-5.78	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	34	ILE	CB-CG2	-5.77	1.33	1.52
2	B	299	GLU	CD-OE2	5.77	1.36	1.25
2	B	968	VAL	N-CA	5.77	1.53	1.46
1	A	572	TRP	CD2-CE2	-5.77	1.31	1.41
1	A	709	THR	CB-CG2	-5.77	1.33	1.52
4	E	151	PRO	N-CD	-5.77	1.39	1.47
1	A	593	GLU	CB-CG	5.77	1.69	1.52
1	A	928	LEU	C-O	-5.77	1.17	1.24
1	A	523	ILE	CA-C	-5.77	1.46	1.52
2	B	483	LEU	CB-CG	-5.77	1.42	1.53
2	B	1062	HIS	CB-CG	-5.77	1.42	1.50
3	C	39	ALA	CA-CB	-5.77	1.45	1.53
5	F	136	ARG	CA-CB	-5.77	1.45	1.53
1	A	1074	GLU	CD-OE2	5.77	1.36	1.25
2	B	788	ARG	CD-NE	-5.77	1.38	1.46
2	B	518	HIS	CE1-NE2	-5.76	1.26	1.32
2	B	908	GLU	CG-CD	5.76	1.66	1.52
7	I	11	ASN	CG-OD1	-5.76	1.12	1.23
2	B	604	ARG	CD-NE	-5.76	1.38	1.46
3	C	48	SER	CB-OG	5.76	1.53	1.42
1	A	263	THR	C-O	5.76	1.31	1.24
1	A	488	ASN	CG-OD1	-5.76	1.12	1.23
1	A	931	GLU	CD-OE2	5.76	1.36	1.25
2	B	344	LYS	CG-CD	5.76	1.69	1.52
2	B	1222	ARG	C-N	5.76	1.41	1.33
3	C	55	THR	CB-OG1	-5.76	1.34	1.43
1	A	448	PRO	CG-CD	-5.76	1.36	1.51
1	A	654	ASN	CA-C	5.76	1.60	1.52
2	B	331	LEU	CA-CB	-5.76	1.44	1.53
2	B	406	LEU	CA-CB	-5.76	1.44	1.53
9	K	47	ARG	CA-C	-5.76	1.45	1.52
1	A	484	GLY	CA-C	-5.76	1.43	1.51
1	A	620	LYS	C-N	-5.76	1.25	1.33
1	A	777	PHE	CD1-CE1	5.76	1.55	1.38
2	B	862	GLN	CA-C	-5.76	1.45	1.53
2	B	962	LYS	C-O	5.76	1.30	1.23
1	A	942	PHE	CB-CG	-5.75	1.37	1.50
2	B	243	ALA	N-CA	5.75	1.53	1.46
2	B	314	LEU	CA-C	5.75	1.60	1.52
2	B	792	MET	CG-SD	5.75	1.95	1.80
2	B	819	ALA	CA-C	-5.75	1.47	1.53
2	B	1058	LEU	CG-CD1	5.75	1.71	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	81	PHE	CB-CG	5.75	1.63	1.50
1	A	430	TRP	CZ3-CH2	-5.75	1.26	1.40
1	A	848	ILE	CB-CG2	-5.75	1.33	1.52
2	B	262	GLU	N-CA	5.75	1.53	1.46
2	B	1000	PRO	C-O	-5.75	1.17	1.23
9	K	58	PHE	CB-CG	5.75	1.63	1.50
1	A	1017	LEU	CA-C	-5.75	1.45	1.52
2	B	32	ALA	C-O	5.75	1.31	1.24
2	B	400	HIS	CA-C	-5.75	1.45	1.52
4	E	51	GLY	C-O	5.75	1.31	1.24
7	I	77	LYS	CB-CG	5.75	1.69	1.52
10	L	29	TYR	CG-CD2	-5.75	1.27	1.39
2	B	171	PRO	C-N	-5.75	1.25	1.33
2	B	367	LEU	N-CA	-5.75	1.38	1.45
2	B	765	PRO	C-O	5.75	1.30	1.24
2	B	990	ILE	CA-CB	5.75	1.61	1.54
1	A	995	GLU	CA-CB	-5.75	1.43	1.53
2	B	825	VAL	C-N	-5.75	1.25	1.33
2	B	965	LYS	CE-NZ	5.75	1.66	1.49
7	I	23	ASN	CA-CB	5.75	1.62	1.53
2	B	630	ALA	CA-C	-5.75	1.45	1.53
10	L	27	LEU	C-N	5.75	1.41	1.33
4	E	18	THR	CA-CB	5.75	1.62	1.53
5	F	90	ARG	CZ-NH1	5.75	1.40	1.32
1	A	529	CYS	N-CA	5.74	1.53	1.46
2	B	359	GLU	N-CA	-5.74	1.37	1.45
9	K	106	GLU	N-CA	-5.74	1.38	1.46
1	A	130	ASP	CB-CG	5.74	1.66	1.52
1	A	910	PRO	CB-CG	5.74	1.78	1.49
2	B	18	PHE	CD2-CE2	5.74	1.55	1.38
2	B	783	THR	CA-CB	-5.74	1.43	1.53
7	I	32	CYS	CA-CB	5.74	1.62	1.53
1	A	749	ALA	C-N	-5.74	1.25	1.33
1	A	785	PRO	N-CD	-5.74	1.39	1.47
1	A	1236	LEU	N-CA	5.74	1.53	1.46
3	C	125	MET	CG-SD	5.74	1.95	1.80
3	C	193	TYR	CG-CD1	-5.74	1.27	1.39
1	A	501	LEU	CG-CD2	-5.74	1.33	1.52
1	A	750	GLY	C-N	-5.74	1.25	1.33
3	C	7	GLN	CD-OE1	5.74	1.34	1.23
1	A	189	ARG	CA-CB	5.74	1.60	1.53
1	A	1013	ASP	C-N	-5.74	1.26	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	330	ALA	N-CA	-5.74	1.39	1.46
2	B	1184	GLY	CA-C	-5.74	1.44	1.52
3	C	221	TYR	CA-C	-5.74	1.45	1.52
9	K	47	ARG	CD-NE	5.74	1.54	1.46
1	A	498	ARG	N-CA	-5.73	1.39	1.46
4	E	26	ARG	CB-CG	-5.73	1.35	1.52
4	E	123	LEU	CG-CD2	5.73	1.71	1.52
4	E	160	GLU	N-CA	5.73	1.52	1.46
6	H	120	GLY	N-CA	5.73	1.53	1.45
1	A	561	PRO	C-O	5.73	1.30	1.23
1	A	1292	PRO	CA-C	5.73	1.60	1.52
2	B	682	SER	N-CA	-5.73	1.38	1.46
3	C	183	TRP	CE3-CZ3	5.73	1.55	1.38
7	I	79	HIS	C-N	5.73	1.41	1.33
1	A	19	PHE	C-O	-5.73	1.16	1.23
1	A	1142	THR	C-N	5.73	1.41	1.34
8	J	8	PHE	N-CA	5.73	1.53	1.46
1	A	70	CYS	CA-CB	5.73	1.62	1.53
2	B	102	VAL	C-O	5.73	1.30	1.24
2	B	213	ILE	CB-CG2	-5.73	1.33	1.52
2	B	622	LYS	N-CA	-5.73	1.38	1.46
1	A	154	SER	CA-CB	5.72	1.61	1.53
2	B	358	LYS	CA-C	-5.72	1.45	1.52
2	B	510	LYS	CA-C	5.72	1.59	1.53
10	L	26	THR	CA-C	5.72	1.60	1.52
1	A	377	PRO	CB-CG	-5.72	1.21	1.49
1	A	813	PHE	CE1-CZ	-5.72	1.21	1.38
1	A	1071	SER	N-CA	-5.72	1.38	1.46
2	B	1049	ASP	CG-OD1	5.72	1.36	1.25
3	C	120	ILE	CA-CB	-5.72	1.48	1.54
4	E	131	THR	CA-C	-5.72	1.45	1.52
5	F	112	GLU	N-CA	-5.72	1.39	1.46
9	K	74	ARG	CA-CB	5.72	1.62	1.53
1	A	970	THR	CB-CG2	-5.72	1.33	1.52
2	B	49	ASP	CA-C	5.72	1.60	1.52
2	B	526	GLU	C-O	-5.72	1.17	1.24
2	B	892	LYS	CG-CD	5.72	1.69	1.52
4	E	40	GLU	CG-CD	5.72	1.66	1.52
7	I	32	CYS	CB-SG	-5.72	1.62	1.81
7	I	89	GLN	CA-C	-5.72	1.44	1.52
7	I	23	ASN	CG-ND2	5.72	1.45	1.33
2	B	689	LEU	CA-C	5.72	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1293	SER	CB-OG	-5.71	1.30	1.42
2	B	106	ASP	N-CA	5.71	1.53	1.46
2	B	691	GLU	CA-C	-5.71	1.45	1.52
2	B	708	GLU	N-CA	-5.71	1.34	1.46
2	B	858	SER	CA-CB	-5.71	1.43	1.53
2	B	1019	SER	CA-C	-5.71	1.45	1.52
1	A	18	GLN	C-N	5.71	1.41	1.33
1	A	237	THR	CA-C	-5.71	1.45	1.52
1	A	143	LYS	CB-CG	5.71	1.69	1.52
1	A	495	GLU	C-O	-5.71	1.16	1.24
1	A	904	THR	CB-OG1	5.71	1.52	1.43
1	A	1292	PRO	C-O	5.71	1.30	1.23
2	B	38	PHE	C-O	-5.71	1.16	1.24
2	B	51	PHE	C-O	5.71	1.31	1.24
2	B	112	LEU	N-CA	5.71	1.53	1.46
2	B	421	PHE	CG-CD1	-5.71	1.26	1.38
2	B	591	ARG	CB-CG	5.71	1.69	1.52
1	A	436	ILE	C-O	-5.71	1.16	1.24
2	B	937	ALA	C-O	5.71	1.30	1.23
9	K	101	LEU	C-O	-5.71	1.16	1.24
1	A	8	SER	CA-C	5.71	1.60	1.52
1	A	426	LEU	CA-CB	-5.71	1.43	1.53
2	B	250	PHE	CD1-CE1	5.71	1.55	1.38
1	A	1201	ALA	N-CA	5.71	1.53	1.46
3	C	86	CYS	C-O	5.71	1.30	1.23
1	A	1220	PHE	CE2-CZ	-5.70	1.21	1.38
2	B	1090	THR	CB-OG1	5.70	1.52	1.43
6	H	34	ASP	CA-CB	5.70	1.63	1.53
2	B	345	LYS	CB-CG	-5.70	1.35	1.52
3	C	44	LEU	CG-CD1	-5.70	1.33	1.52
4	E	24	LYS	CG-CD	-5.70	1.35	1.52
1	A	393	ARG	NE-CZ	5.70	1.39	1.33
2	B	889	THR	CB-CG2	5.70	1.71	1.52
1	A	954	TRP	CE2-CZ2	-5.70	1.27	1.39
4	E	7	ARG	CZ-NH1	5.70	1.40	1.32
2	B	44	VAL	N-CA	-5.70	1.39	1.46
2	B	384	ARG	CA-C	5.70	1.60	1.52
1	A	381	THR	N-CA	5.70	1.53	1.45
1	A	487	MET	CA-C	5.70	1.59	1.52
1	A	534	LEU	CG-CD2	-5.70	1.33	1.52
1	A	871	ASP	C-O	-5.70	1.16	1.24
2	B	193	LYS	CE-NZ	-5.70	1.32	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	623	GLU	C-O	-5.70	1.17	1.23
4	E	18	THR	C-N	-5.70	1.26	1.33
1	A	452	LYS	CA-CB	-5.69	1.43	1.53
9	K	36	GLU	C-N	-5.69	1.26	1.33
2	B	855	PHE	N-CA	-5.69	1.39	1.46
4	E	55	ARG	N-CA	5.69	1.53	1.46
5	F	110	ASP	CA-C	-5.69	1.45	1.52
2	B	609	ILE	C-O	5.69	1.31	1.24
2	B	810	GLU	C-O	5.69	1.30	1.24
1	A	220	THR	C-N	-5.69	1.26	1.34
6	H	89	LEU	C-O	-5.69	1.16	1.24
1	A	53	LEU	C-O	5.68	1.31	1.23
1	A	1037	LEU	C-O	-5.68	1.16	1.24
2	B	19	GLU	CA-CB	5.68	1.63	1.53
2	B	222	ILE	C-O	-5.68	1.17	1.24
2	B	887	HIS	C-O	5.68	1.31	1.24
8	J	8	PHE	CA-C	-5.68	1.45	1.52
1	A	748	MET	C-N	-5.68	1.26	1.33
3	C	170	TRP	CZ2-CH2	-5.68	1.26	1.37
2	B	1106	ARG	CB-CG	5.68	1.69	1.52
4	E	55	ARG	C-N	-5.68	1.25	1.33
9	K	102	LYS	CE-NZ	5.68	1.66	1.49
1	A	671	ALA	N-CA	-5.68	1.38	1.45
1	A	1037	LEU	CA-CB	5.68	1.63	1.53
1	A	1353	TYR	CD1-CE1	5.68	1.55	1.38
2	B	1224	PHE	CG-CD2	5.68	1.50	1.38
3	C	181	ASP	N-CA	5.68	1.54	1.46
6	H	94	ASP	C-O	5.68	1.31	1.24
6	H	140	ALA	CA-CB	-5.68	1.44	1.53
2	B	362	PRO	CB-CG	-5.68	1.21	1.49
6	H	13	SER	CB-OG	5.68	1.53	1.42
1	A	116	ASP	CA-CB	-5.68	1.49	1.54
1	A	374	LEU	N-CA	5.68	1.52	1.45
1	A	387	ARG	CB-CG	5.68	1.69	1.52
2	B	1186	ASP	N-CA	5.68	1.53	1.46
4	E	134	THR	CA-CB	-5.68	1.43	1.53
6	H	97	MET	C-O	-5.68	1.16	1.23
9	K	13	GLY	C-O	5.68	1.31	1.23
2	B	842	ASN	CB-CG	-5.67	1.37	1.52
5	F	110	ASP	CG-OD2	5.67	1.36	1.25
1	A	628	GLY	C-O	5.67	1.29	1.23
1	A	1050	GLU	CA-CB	-5.67	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	738	PHE	C-N	-5.67	1.25	1.33
2	B	957	ASN	CG-ND2	5.67	1.45	1.33
2	B	968	VAL	CB-CG2	-5.67	1.33	1.52
7	I	110	PHE	C-N	5.67	1.41	1.33
1	A	980	ASP	CA-CB	5.67	1.63	1.53
2	B	458	LYS	CA-CB	-5.67	1.44	1.53
2	B	624	LEU	CA-C	-5.67	1.46	1.52
1	A	956	LEU	CG-CD1	-5.67	1.33	1.52
1	A	1215	ARG	CB-CG	5.67	1.69	1.52
4	E	29	PHE	C-O	5.67	1.31	1.24
9	K	70	ARG	CD-NE	5.67	1.54	1.46
1	A	696	GLU	CA-C	5.67	1.60	1.52
1	A	1214	GLU	CB-CG	5.67	1.69	1.52
4	E	9	ILE	CA-CB	5.67	1.62	1.54
4	E	72	PHE	C-O	5.67	1.31	1.24
4	E	84	ASP	N-CA	5.67	1.53	1.46
7	I	41	PRO	CG-CD	-5.67	1.31	1.50
1	A	555	ASP	CA-C	-5.67	1.45	1.53
1	A	1056	SER	C-N	-5.67	1.26	1.33
4	E	91	LYS	N-CA	5.67	1.53	1.46
1	A	1348	LEU	CG-CD2	-5.66	1.33	1.52
7	I	7	CYS	CA-C	-5.66	1.45	1.52
7	I	4	PHE	N-CA	5.66	1.53	1.46
1	A	12	ARG	C-N	-5.66	1.25	1.33
1	A	781	ASP	C-N	5.66	1.40	1.33
2	B	203	PHE	CE1-CZ	-5.66	1.21	1.38
2	B	727	LYS	CA-CB	5.66	1.62	1.53
6	H	42	ILE	CA-C	-5.66	1.45	1.52
1	A	286	HIS	CG-ND1	5.66	1.44	1.38
2	B	797	TYR	CG-CD1	-5.66	1.27	1.39
3	C	67	LEU	CA-C	5.66	1.60	1.52
3	C	148	ARG	NE-CZ	5.66	1.39	1.33
7	I	8	ARG	CB-CG	5.66	1.69	1.52
2	B	230	ALA	C-N	5.66	1.40	1.34
2	B	1159	ARG	NE-CZ	-5.66	1.26	1.33
1	A	863	VAL	CB-CG2	5.66	1.71	1.52
1	A	930	ASP	C-O	5.66	1.30	1.24
2	B	876	LYS	CD-CE	5.66	1.69	1.52
3	C	233	GLU	CD-OE2	5.66	1.36	1.25
6	H	140	ALA	C-O	-5.66	1.17	1.24
7	I	116	ASN	CA-C	-5.66	1.45	1.52
1	A	969	GLN	CG-CD	5.65	1.66	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	13	TRP	C-O	5.65	1.30	1.24
1	A	1032	LEU	C-N	-5.65	1.25	1.33
1	A	1152	ILE	C-N	5.65	1.41	1.33
2	B	310	MET	CA-C	-5.65	1.45	1.52
2	B	326	ASP	CA-CB	-5.65	1.43	1.53
2	B	581	PHE	CA-C	5.65	1.59	1.52
2	B	706	GLN	N-CA	5.65	1.58	1.45
2	B	1206	GLU	CD-OE1	5.65	1.36	1.25
2	B	1108	ARG	CZ-NH1	5.65	1.40	1.32
1	A	490	HIS	CG-ND1	-5.65	1.32	1.38
1	A	608	ILE	C-N	-5.65	1.25	1.33
1	A	1225	PHE	CG-CD2	5.65	1.50	1.38
2	B	511	PRO	N-CA	-5.65	1.40	1.47
1	A	353	ILE	CB-CG1	-5.64	1.42	1.53
1	A	391	LEU	C-N	5.64	1.41	1.34
1	A	602	ASP	CG-OD2	5.64	1.36	1.25
1	A	1122	PRO	CB-CG	5.64	1.77	1.49
1	A	1410	PHE	CD2-CE2	-5.64	1.21	1.38
2	B	320	ASP	C-N	-5.64	1.26	1.33
1	A	1161	THR	C-O	5.64	1.31	1.23
2	B	691	GLU	CG-CD	5.64	1.66	1.52
1	A	542	GLU	N-CA	-5.64	1.39	1.45
1	A	471	ASN	C-N	-5.64	1.26	1.34
1	A	672	ASP	CA-CB	5.64	1.63	1.53
1	A	991	LYS	N-CA	5.64	1.53	1.46
9	K	9	LEU	CA-CB	-5.64	1.43	1.53
1	A	377	PRO	CA-C	-5.64	1.44	1.52
1	A	527	THR	CA-C	-5.64	1.44	1.52
1	A	839	ARG	CG-CD	5.64	1.69	1.52
1	A	215	SER	C-O	-5.64	1.17	1.23
1	A	380	VAL	CA-CB	-5.64	1.47	1.54
1	A	891	ALA	C-N	-5.64	1.25	1.33
1	A	1099	PRO	C-N	-5.64	1.26	1.33
3	C	194	GLU	CD-OE1	5.64	1.36	1.25
6	H	79	TRP	CA-C	-5.64	1.45	1.52
1	A	18	GLN	CA-C	-5.63	1.46	1.52
1	A	1211	GLN	CG-CD	5.63	1.66	1.52
3	C	235	VAL	CA-CB	-5.63	1.47	1.54
4	E	98	ILE	CB-CG2	5.63	1.71	1.52
9	K	38	GLU	CA-C	5.63	1.59	1.52
1	A	18	GLN	CA-CB	-5.63	1.44	1.53
2	B	588	GLY	C-O	5.63	1.31	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	855	PHE	CG-CD2	-5.63	1.27	1.38
3	C	44	LEU	C-O	5.63	1.30	1.24
9	K	10	PHE	CA-CB	5.63	1.63	1.54
1	A	372	LYS	CD-CE	-5.63	1.35	1.52
1	A	521	MET	CA-C	5.63	1.59	1.52
2	B	591	ARG	CZ-NH1	5.63	1.40	1.32
1	A	98	LYS	CD-CE	5.63	1.69	1.52
1	A	1365	TYR	CD1-CE1	5.63	1.55	1.38
1	A	85	ASP	N-CA	5.63	1.53	1.46
1	A	440	ASP	CB-CG	-5.63	1.38	1.52
1	A	1270	ASN	C-N	5.63	1.40	1.33
2	B	456	GLY	N-CA	5.63	1.53	1.45
2	B	1033	LYS	CA-C	5.63	1.59	1.52
3	C	208	GLU	C-O	5.63	1.31	1.24
1	A	755	PHE	N-CA	-5.62	1.39	1.46
1	A	1068	ALA	C-N	-5.62	1.26	1.33
2	B	486	TYR	CA-C	-5.62	1.45	1.52
2	B	754	SER	C-N	-5.62	1.27	1.34
1	A	640	GLN	C-O	-5.62	1.17	1.24
1	A	782	ARG	NE-CZ	5.62	1.39	1.33
2	B	541	LEU	N-CA	-5.62	1.38	1.46
2	B	1224	PHE	CB-CG	5.62	1.63	1.50
9	K	2	ASN	C-N	5.62	1.42	1.33
9	K	62	LYS	CA-CB	-5.62	1.44	1.53
1	A	1196	GLU	C-N	5.62	1.41	1.33
2	B	567	GLU	CB-CG	5.62	1.69	1.52
2	B	52	ASN	CA-CB	-5.62	1.44	1.53
2	B	1018	PRO	C-N	-5.62	1.25	1.33
7	I	97	MET	CB-CG	-5.62	1.35	1.52
1	A	1146	VAL	C-O	5.62	1.30	1.24
1	A	1420	ASP	CA-CB	-5.62	1.43	1.53
2	B	866	TYR	CG-CD2	5.62	1.51	1.39
3	C	151	GLN	CD-OE1	5.62	1.34	1.23
1	A	1443	VAL	CA-CB	5.62	1.62	1.54
2	B	566	LEU	CG-CD2	-5.62	1.34	1.52
2	B	896	ASP	C-O	-5.62	1.16	1.24
7	I	12	ASN	CG-ND2	-5.62	1.21	1.33
9	K	68	PHE	C-N	5.62	1.41	1.33
1	A	446	ARG	CG-CD	-5.61	1.35	1.52
9	K	91	CYS	C-N	5.61	1.40	1.33
10	L	50	ASP	C-N	5.61	1.41	1.33
1	A	755	PHE	CE2-CZ	-5.61	1.21	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	839	ARG	CA-C	5.61	1.60	1.52
1	A	957	PRO	N-CA	-5.61	1.40	1.47
1	A	975	HIS	CG-ND1	5.61	1.44	1.38
1	A	1208	THR	C-N	-5.61	1.27	1.33
1	A	1433	MET	C-O	-5.61	1.17	1.24
2	B	124	TYR	CE1-CZ	-5.61	1.24	1.38
2	B	446	LEU	C-N	5.61	1.41	1.33
2	B	1172	ILE	CB-CG2	5.61	1.71	1.52
5	F	97	ARG	C-N	-5.61	1.26	1.34
8	J	64	ASN	CA-CB	5.61	1.64	1.53
9	K	22	ASP	CA-C	-5.61	1.45	1.52
2	B	366	GLN	CD-OE1	5.61	1.34	1.23
4	E	67	GLU	CB-CG	5.61	1.69	1.52
9	K	10	PHE	CE2-CZ	-5.61	1.21	1.38
2	B	660	LYS	CA-C	5.61	1.60	1.52
2	B	967	ARG	CB-CG	-5.61	1.35	1.52
10	L	52	GLY	C-O	5.61	1.31	1.23
1	A	202	LEU	CB-CG	5.61	1.64	1.53
1	A	452	LYS	CA-C	-5.61	1.44	1.52
1	A	1335	ILE	CB-CG1	5.61	1.64	1.53
3	C	81	GLU	CA-C	5.61	1.59	1.52
1	A	1431	GLY	CA-C	-5.60	1.43	1.51
3	C	244	VAL	CB-CG1	-5.60	1.34	1.52
4	E	39	LEU	C-N	-5.60	1.26	1.34
4	E	146	HIS	CB-CG	5.60	1.57	1.50
4	E	150	VAL	CA-CB	-5.60	1.47	1.54
7	I	105	SER	C-N	5.60	1.42	1.33
1	A	136	ALA	CA-C	-5.60	1.45	1.52
1	A	179	LEU	CG-CD1	5.60	1.71	1.52
1	A	456	MET	CB-CG	-5.60	1.35	1.52
2	B	893	LEU	CG-CD1	5.60	1.71	1.52
1	A	139	TRP	CB-CG	-5.60	1.32	1.50
6	H	146	ARG	CB-CG	5.60	1.69	1.52
7	I	40	SER	CA-C	-5.60	1.45	1.52
1	A	133	LYS	C-N	5.60	1.41	1.33
2	B	959	ASP	CG-OD1	5.60	1.35	1.25
2	B	401	PHE	CB-CG	-5.60	1.37	1.50
2	B	420	LEU	C-O	-5.60	1.16	1.24
4	E	200	ARG	CA-C	-5.60	1.46	1.52
7	I	49	ILE	N-CA	5.60	1.53	1.46
1	A	303	TYR	CD2-CE2	-5.59	1.21	1.38
1	A	1372	VAL	CB-CG1	-5.59	1.34	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	484	ASN	CB-CG	-5.59	1.38	1.52
2	B	736	THR	N-CA	-5.59	1.39	1.46
3	C	196	ASP	CB-CG	5.59	1.66	1.52
4	E	82	PHE	CG-CD2	-5.59	1.27	1.38
1	A	274	ILE	CA-C	5.59	1.59	1.52
2	B	92	PHE	C-O	5.59	1.30	1.23
2	B	336	ARG	CA-CB	-5.59	1.44	1.53
3	C	176	ILE	N-CA	5.59	1.54	1.46
7	I	69	PRO	C-O	-5.59	1.17	1.23
1	A	559	VAL	N-CA	-5.59	1.39	1.46
1	A	1260	LEU	CA-C	-5.59	1.45	1.52
2	B	89	GLU	CB-CG	5.59	1.69	1.52
2	B	745	PRO	CG-CD	5.59	1.69	1.50
3	C	218	PRO	CB-CG	5.59	1.77	1.49
8	J	2	ILE	CB-CG2	5.59	1.71	1.52
8	J	23	ASN	C-O	5.59	1.30	1.24
2	B	1057	LYS	CE-NZ	5.59	1.66	1.49
1	A	108	MET	C-O	-5.59	1.15	1.24
1	A	1424	VAL	N-CA	5.59	1.53	1.46
8	J	61	LEU	CG-CD1	5.59	1.71	1.52
10	L	28	LYS	CE-NZ	5.58	1.66	1.49
3	C	16	ASP	CA-C	5.58	1.60	1.52
7	I	115	LYS	CD-CE	5.58	1.69	1.52
9	K	47	ARG	C-O	-5.58	1.17	1.24
1	A	105	CYS	C-O	-5.58	1.17	1.23
1	A	546	VAL	C-N	-5.58	1.25	1.33
1	A	799	PHE	CB-CG	5.58	1.63	1.50
1	A	1001	ARG	N-CA	-5.58	1.37	1.45
1	A	1154	TYR	CD1-CE1	5.58	1.55	1.38
2	B	61	ASP	CG-OD1	5.58	1.35	1.25
3	C	93	ASP	CA-CB	5.58	1.63	1.53
3	C	214	ASN	CA-C	5.58	1.59	1.52
2	B	768	THR	CA-C	5.58	1.59	1.52
1	A	1362	TYR	C-N	5.58	1.40	1.33
2	B	547	VAL	N-CA	5.58	1.53	1.46
4	E	85	GLU	CA-CB	5.58	1.63	1.53
7	I	3	THR	C-N	5.58	1.41	1.33
7	I	113	ASP	N-CA	-5.58	1.39	1.46
1	A	59	GLY	C-O	-5.58	1.16	1.23
1	A	922	ASP	CB-CG	5.58	1.66	1.52
1	A	1035	TYR	CG-CD1	-5.58	1.27	1.39
1	A	1426	GLU	CD-OE1	5.58	1.35	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1129	ARG	CA-C	-5.58	1.45	1.53
1	A	639	PRO	CG-CD	-5.58	1.31	1.50
1	A	921	GLY	C-O	5.58	1.31	1.24
1	A	1410	PHE	CG-CD2	-5.58	1.27	1.38
2	B	270	LYS	CA-CB	-5.58	1.44	1.53
9	K	22	ASP	C-O	-5.58	1.18	1.24
9	K	55	LYS	C-N	5.58	1.39	1.33
1	A	933	TYR	CD1-CE1	5.57	1.55	1.38
3	C	57	VAL	CA-CB	-5.57	1.47	1.54
7	I	13	MET	C-O	-5.57	1.17	1.23
8	J	12	LYS	C-N	5.57	1.40	1.33
2	B	1139	ILE	C-O	-5.57	1.17	1.24
1	A	690	VAL	C-N	-5.57	1.26	1.33
6	H	137	GLN	CD-OE1	5.57	1.34	1.23
2	B	1094	ARG	CB-CG	-5.57	1.35	1.52
1	A	135	PHE	CB-CG	-5.57	1.37	1.50
2	B	180	TYR	CG-CD1	5.57	1.51	1.39
2	B	540	SER	N-CA	5.57	1.53	1.46
2	B	576	ASP	N-CA	5.57	1.53	1.46
2	B	1057	LYS	CA-CB	-5.57	1.44	1.53
1	A	177	ASP	C-O	5.57	1.33	1.23
1	A	976	THR	CB-CG2	5.57	1.71	1.52
2	B	1047	PHE	CG-CD1	-5.57	1.27	1.38
3	C	209	TYR	C-N	-5.57	1.26	1.33
8	J	7	CYS	C-N	5.57	1.41	1.33
9	K	92	ASN	CB-CG	5.57	1.66	1.52
1	A	1153	TYR	CA-C	-5.56	1.46	1.52
2	B	1103	ILE	CA-C	5.56	1.59	1.52
9	K	91	CYS	CA-CB	-5.56	1.44	1.53
2	B	730	ARG	NE-CZ	-5.56	1.26	1.33
3	C	63	ILE	C-O	-5.56	1.17	1.24
10	L	47	ARG	C-O	-5.56	1.17	1.24
1	A	247	ARG	CB-CG	5.56	1.69	1.52
2	B	289	LEU	CA-C	-5.56	1.44	1.52
2	B	785	TYR	CA-CB	-5.56	1.44	1.53
2	B	1052	VAL	CB-CG2	-5.56	1.34	1.52
10	L	43	THR	CA-C	5.56	1.62	1.52
1	A	571	LEU	CA-C	-5.56	1.46	1.52
2	B	59	LEU	CB-CG	-5.56	1.42	1.53
8	J	1	MET	CG-SD	-5.56	1.66	1.80
1	A	381	THR	CA-CB	-5.56	1.46	1.54
1	A	752	LYS	CG-CD	-5.56	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1173	HIS	CA-CB	5.56	1.64	1.53
2	B	26	THR	CA-CB	-5.56	1.43	1.53
3	C	20	PHE	CD2-CE2	5.56	1.55	1.38
6	H	5	LEU	CA-C	-5.56	1.45	1.52
7	I	96	SER	C-O	-5.56	1.16	1.23
1	A	120	GLU	CD-OE2	5.56	1.35	1.25
1	A	1364	ASN	CG-ND2	5.56	1.45	1.33
2	B	498	THR	CB-OG1	5.56	1.52	1.43
4	E	13	TRP	CD2-CE2	5.56	1.50	1.41
6	H	83	GLN	C-O	5.56	1.30	1.24
7	I	3	THR	N-CA	-5.56	1.39	1.47
2	B	187	SER	N-CA	-5.55	1.39	1.46
9	K	29	ASN	CG-ND2	5.55	1.45	1.33
1	A	65	LEU	CG-CD2	5.55	1.70	1.52
1	A	205	GLU	CA-C	5.55	1.60	1.52
1	A	869	GLY	C-O	-5.55	1.16	1.23
1	A	670	ILE	CA-CB	-5.55	1.47	1.54
2	B	1100	ASP	CG-OD1	5.55	1.35	1.25
7	I	35	VAL	CB-CG2	-5.55	1.34	1.52
7	I	86	PHE	CD2-CE2	5.55	1.55	1.38
2	B	746	SER	CA-C	-5.55	1.44	1.52
1	A	939	ASP	CG-OD1	5.55	1.35	1.25
1	A	1006	ILE	N-CA	-5.55	1.39	1.46
2	B	875	GLU	CD-OE1	5.55	1.35	1.25
2	B	908	GLU	CB-CG	5.55	1.69	1.52
2	B	652	LYS	CG-CD	5.54	1.69	1.52
2	B	963	PHE	CB-CG	-5.54	1.37	1.50
2	B	1035	ALA	C-O	5.54	1.30	1.24
3	C	97	VAL	N-CA	5.54	1.52	1.46
4	E	106	GLN	CD-OE1	5.54	1.34	1.23
1	A	234	MET	CG-SD	-5.54	1.66	1.80
2	B	306	ASN	CB-CG	5.54	1.66	1.52
1	A	68	GLN	CA-C	5.54	1.62	1.53
1	A	530	GLY	N-CA	-5.54	1.37	1.45
1	A	934	LYS	CA-C	-5.54	1.45	1.52
1	A	1223	ASP	CB-CG	5.54	1.65	1.52
1	A	1325	THR	CB-CG2	-5.54	1.34	1.52
2	B	396	ASP	CG-OD2	-5.54	1.14	1.25
1	A	403	LYS	CE-NZ	5.54	1.66	1.49
2	B	828	ALA	CA-CB	-5.54	1.44	1.53
4	E	79	TRP	CD2-CE3	5.54	1.49	1.40
1	A	200	ARG	CA-C	-5.54	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	125	SER	CA-CB	-5.54	1.43	1.53
2	B	529	GLU	CD-OE1	5.54	1.35	1.25
4	E	105	PHE	N-CA	5.54	1.53	1.46
4	E	212	ARG	CA-C	5.54	1.59	1.52
6	H	80	ARG	CZ-NH2	5.54	1.40	1.33
6	H	123	MET	C-N	-5.54	1.26	1.33
2	B	66	ASP	C-O	5.53	1.30	1.24
3	C	178	PHE	C-O	5.53	1.30	1.24
4	E	90	VAL	C-O	5.53	1.30	1.24
8	J	3	VAL	C-N	-5.53	1.26	1.33
1	A	502	SER	N-CA	5.53	1.53	1.46
1	A	625	SER	C-O	5.53	1.30	1.23
2	B	647	GLY	C-N	5.53	1.40	1.33
1	A	247	ARG	CA-CB	5.53	1.62	1.53
3	C	36	VAL	CA-CB	-5.53	1.47	1.54
2	B	250	PHE	CD2-CE2	5.53	1.55	1.38
4	E	39	LEU	CA-CB	-5.53	1.44	1.53
10	L	61	THR	CB-OG1	-5.53	1.34	1.43
4	E	182	ASP	CB-CG	5.53	1.65	1.52
1	A	597	LEU	C-N	-5.53	1.26	1.33
1	A	747	VAL	CA-C	-5.53	1.46	1.52
1	A	1301	GLU	CA-CB	5.53	1.62	1.53
2	B	200	GLY	CA-C	-5.53	1.43	1.51
2	B	326	ASP	C-O	5.53	1.30	1.23
2	B	1150	ARG	C-O	-5.53	1.16	1.24
4	E	34	GLU	CD-OE2	5.53	1.35	1.25
1	A	670	ILE	C-N	-5.52	1.25	1.33
1	A	1298	TYR	CA-C	-5.52	1.45	1.52
2	B	135	ARG	CG-CD	5.52	1.69	1.52
2	B	407	ASP	CA-C	5.52	1.59	1.52
2	B	610	ASN	N-CA	5.52	1.52	1.45
9	K	109	TRP	CA-C	5.52	1.60	1.52
2	B	413	LEU	CB-CG	-5.52	1.42	1.53
2	B	432	MET	CB-CG	5.52	1.69	1.52
2	B	602	THR	CA-C	-5.52	1.45	1.52
2	B	901	PRO	CA-C	5.52	1.59	1.52
2	B	1088	GLY	C-N	-5.52	1.26	1.33
2	B	1161	HIS	CE1-NE2	5.52	1.38	1.32
10	L	59	ALA	N-CA	5.52	1.53	1.46
1	A	626	ASN	C-O	-5.52	1.17	1.24
1	A	751	SER	N-CA	-5.52	1.39	1.46
1	A	760	GLN	CD-NE2	-5.52	1.21	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	391	ASP	C-O	5.52	1.30	1.24
1	A	861	GLY	C-O	-5.52	1.16	1.24
1	A	1301	GLU	CD-OE1	5.52	1.35	1.25
2	B	185	THR	CA-C	-5.52	1.45	1.53
2	B	304	ASP	CG-OD1	5.52	1.35	1.25
2	B	1079	LYS	C-N	-5.52	1.26	1.33
4	E	50	MET	C-N	5.52	1.40	1.33
1	A	885	THR	CA-CB	5.52	1.62	1.53
2	B	190	TYR	CD2-CE2	5.52	1.55	1.38
2	B	1201	LYS	CA-CB	-5.52	1.44	1.53
4	E	198	ILE	CA-C	-5.52	1.45	1.52
9	K	61	TYR	CG-CD1	-5.52	1.27	1.39
1	A	717	ASN	C-O	-5.52	1.17	1.24
1	A	502	SER	C-N	-5.51	1.25	1.33
1	A	890	ASP	CA-C	5.51	1.59	1.52
1	A	1163	ILE	CB-CG2	-5.51	1.34	1.52
1	A	1427	ASN	C-O	5.51	1.31	1.24
2	B	55	VAL	N-CA	-5.51	1.39	1.46
2	B	224	GLN	CB-CG	5.51	1.69	1.52
2	B	485	ARG	CA-CB	5.51	1.61	1.53
3	C	170	TRP	CZ3-CH2	-5.51	1.26	1.40
9	K	89	ASN	N-CA	-5.51	1.39	1.46
1	A	488	ASN	C-N	-5.51	1.25	1.33
1	A	908	LEU	CG-CD2	-5.51	1.34	1.52
1	A	1354	ASN	CB-CG	5.51	1.65	1.52
7	I	50	THR	CA-CB	-5.51	1.41	1.53
2	B	284	ILE	C-N	5.51	1.40	1.33
1	A	523	ILE	CB-CG1	-5.51	1.42	1.53
1	A	688	LYS	N-CA	5.51	1.53	1.46
1	A	829	VAL	CB-CG2	5.51	1.70	1.52
1	A	1132	LYS	N-CA	5.51	1.52	1.46
1	A	1272	THR	CA-C	5.51	1.59	1.52
1	A	1300	LYS	CG-CD	5.51	1.69	1.52
10	L	50	ASP	N-CA	5.51	1.53	1.46
1	A	1281	ARG	CD-NE	5.51	1.53	1.46
1	A	1111	MET	C-N	-5.51	1.26	1.33
2	B	607	GLY	CA-C	5.50	1.59	1.51
2	B	722	ASP	CA-C	5.50	1.64	1.52
2	B	1138	MET	CG-SD	5.50	1.94	1.80
10	L	40	LEU	CA-C	5.50	1.59	1.52
1	A	1406	VAL	CA-CB	-5.50	1.48	1.54
2	B	380	TYR	CA-C	-5.50	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	802	PRO	CA-CB	-5.50	1.46	1.53
9	K	57	LEU	C-N	5.50	1.40	1.33
1	A	852	TYR	CE2-CZ	-5.50	1.25	1.38
1	A	1053	PHE	CE2-CZ	-5.50	1.22	1.38
3	C	188	HIS	N-CA	-5.50	1.38	1.46
7	I	47	GLU	CD-OE2	5.50	1.35	1.25
2	B	800	GLN	CA-CB	-5.50	1.42	1.54
3	C	113	VAL	C-O	-5.50	1.18	1.24
4	E	84	ASP	C-O	5.50	1.31	1.24
7	I	4	PHE	CE1-CZ	5.50	1.55	1.38
1	A	659	HIS	C-N	-5.50	1.26	1.33
1	A	840	ARG	CZ-NH2	5.50	1.40	1.33
2	B	991	GLY	C-O	-5.50	1.16	1.23
5	F	96	THR	C-N	-5.50	1.26	1.33
1	A	449	SER	C-O	-5.50	1.16	1.23
2	B	333	PHE	CA-C	-5.50	1.45	1.52
2	B	864	LYS	CA-CB	5.50	1.62	1.53
1	A	326	ARG	CA-CB	5.50	1.62	1.53
2	B	250	PHE	CE2-CZ	5.50	1.55	1.38
2	B	881	ASN	C-O	5.50	1.30	1.24
1	A	186	LYS	CD-CE	5.49	1.69	1.52
2	B	232	SER	CA-C	-5.49	1.47	1.53
1	A	395	GLY	C-O	-5.49	1.16	1.24
1	A	1092	LYS	CD-CE	5.49	1.69	1.52
2	B	164	LYS	CA-C	5.49	1.64	1.52
2	B	177	LYS	CA-C	5.49	1.59	1.52
3	C	101	LEU	CG-CD1	5.49	1.70	1.52
7	I	28	GLU	C-O	-5.49	1.16	1.23
1	A	588	LEU	CA-C	5.49	1.59	1.52
1	A	895	LYS	CE-NZ	5.49	1.65	1.49
1	A	1140	HIS	CD2-NE2	5.49	1.43	1.37
1	A	1191	TRP	CB-CG	-5.49	1.33	1.50
2	B	20	ASP	CA-CB	5.49	1.62	1.53
2	B	625	LYS	CG-CD	5.49	1.69	1.52
2	B	745	PRO	N-CD	-5.49	1.40	1.47
2	B	811	TYR	CD2-CE2	5.49	1.55	1.38
4	E	46	TYR	N-CA	-5.49	1.40	1.46
4	E	95	THR	CA-C	-5.49	1.45	1.52
7	I	65	ASP	CA-CB	5.49	1.62	1.52
1	A	443	LEU	CB-CG	-5.49	1.42	1.53
1	A	1413	GLY	C-N	-5.49	1.25	1.33
2	B	37	PHE	C-N	-5.49	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	797	LYS	C-O	5.49	1.31	1.23
3	C	98	VAL	CA-C	5.48	1.59	1.52
7	I	62	ILE	CB-CG1	-5.48	1.42	1.53
1	A	494	SER	N-CA	5.48	1.53	1.46
2	B	857	ARG	C-O	-5.48	1.17	1.24
4	E	145	THR	N-CA	-5.48	1.38	1.46
1	A	456	MET	SD-CE	-5.48	1.65	1.79
1	A	1080	THR	CB-CG2	5.48	1.70	1.52
2	B	362	PRO	C-N	-5.48	1.25	1.33
2	B	380	TYR	CZ-OH	5.48	1.49	1.38
3	C	106	GLU	C-N	5.48	1.41	1.33
2	B	994	TYR	CE1-CZ	-5.48	1.25	1.38
9	K	64	GLU	C-N	-5.48	1.25	1.34
1	A	545	GLN	CD-OE1	5.48	1.33	1.23
1	A	895	LYS	CG-CD	5.48	1.68	1.52
8	J	40	GLY	CA-C	5.48	1.59	1.51
2	B	576	ASP	CA-C	5.47	1.61	1.52
2	B	916	THR	CA-CB	5.47	1.69	1.54
2	B	1201	LYS	CD-CE	5.47	1.68	1.52
3	C	198	ALA	C-O	5.47	1.30	1.24
6	H	106	GLU	C-N	5.47	1.41	1.33
1	A	388	LEU	CG-CD1	-5.47	1.34	1.52
1	A	646	PHE	CD1-CE1	-5.47	1.22	1.38
1	A	1313	LEU	CA-C	5.47	1.59	1.52
2	B	356	LEU	CA-C	5.47	1.60	1.52
2	B	407	ASP	C-N	-5.47	1.25	1.33
2	B	957	ASN	CG-OD1	5.47	1.33	1.23
1	A	858	ASN	CA-CB	-5.47	1.44	1.53
9	K	84	LYS	CD-CE	5.47	1.68	1.52
1	A	1192	LEU	CA-C	-5.47	1.45	1.52
2	B	91	SER	C-N	5.47	1.40	1.33
3	C	22	LEU	CG-CD1	-5.47	1.34	1.52
4	E	97	VAL	N-CA	-5.47	1.39	1.46
6	H	23	VAL	C-N	5.47	1.40	1.33
7	I	27	PHE	CA-C	-5.47	1.46	1.52
7	I	104	LEU	C-O	-5.47	1.16	1.23
9	K	113	THR	C-N	5.47	1.41	1.33
2	B	131	ASP	CG-OD2	5.47	1.35	1.25
2	B	644	GLU	C-O	5.47	1.30	1.24
7	I	27	PHE	CE1-CZ	-5.47	1.22	1.38
1	A	400	PRO	CB-CG	-5.47	1.22	1.49
1	A	972	HIS	CG-ND1	5.47	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1233	ASP	CB-CG	5.47	1.65	1.52
2	B	698	GLU	CA-CB	-5.47	1.43	1.53
1	A	125	ALA	CA-CB	-5.46	1.44	1.53
1	A	803	SER	N-CA	-5.46	1.38	1.45
6	H	30	SER	N-CA	5.46	1.52	1.46
9	K	86	ALA	C-O	-5.46	1.16	1.24
2	B	41	LYS	CA-C	5.46	1.59	1.52
4	E	8	ASN	CG-ND2	5.46	1.44	1.33
4	E	212	ARG	N-CA	5.46	1.52	1.45
7	I	110	PHE	C-O	-5.46	1.17	1.23
1	A	175	ARG	CB-CG	5.46	1.68	1.52
1	A	877	HIS	CG-CD2	-5.46	1.29	1.35
1	A	961	ARG	CZ-NH1	5.46	1.40	1.32
2	B	861	ASP	C-O	5.46	1.30	1.23
7	I	9	ASP	CB-CG	5.46	1.65	1.52
1	A	416	ARG	NE-CZ	-5.46	1.27	1.33
1	A	444	PHE	C-O	-5.46	1.17	1.23
1	A	1034	GLU	CG-CD	5.46	1.65	1.52
2	B	1060	ARG	C-N	-5.46	1.26	1.34
3	C	27	LEU	C-O	5.46	1.30	1.24
4	E	200	ARG	NE-CZ	-5.46	1.27	1.33
2	B	657	HIS	CA-C	-5.46	1.45	1.52
2	B	738	PHE	CD2-CE2	-5.46	1.22	1.38
3	C	249	ASP	CB-CG	5.46	1.65	1.52
2	B	53	GLN	C-O	5.46	1.30	1.24
2	B	662	MET	C-N	-5.46	1.26	1.34
1	A	218	ASP	C-O	-5.45	1.17	1.24
1	A	808	LEU	CG-CD1	-5.45	1.34	1.52
1	A	813	PHE	CA-C	-5.45	1.45	1.52
2	B	890	TYR	C-O	5.45	1.31	1.24
2	B	1003	ALA	N-CA	-5.45	1.39	1.46
6	H	31	THR	CA-CB	5.45	1.60	1.53
7	I	53	GLY	C-O	5.45	1.31	1.24
2	B	35	SER	CA-CB	-5.45	1.44	1.53
2	B	233	PRO	CB-CG	5.45	1.76	1.49
2	B	350	GLN	N-CA	-5.45	1.39	1.46
2	B	767	ASN	CG-ND2	-5.45	1.21	1.33
2	B	1222	ARG	CA-CB	5.45	1.62	1.53
7	I	85	PHE	C-N	-5.45	1.26	1.33
8	J	38	ARG	C-O	-5.45	1.17	1.24
1	A	434	ARG	CA-CB	-5.45	1.45	1.53
1	A	454	SER	CB-OG	-5.45	1.31	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	617	VAL	N-CA	-5.45	1.39	1.46
1	A	760	GLN	C-O	-5.45	1.17	1.24
2	B	980	PHE	CG-CD2	5.45	1.50	1.38
2	B	300	HIS	CA-CB	5.45	1.63	1.53
1	A	73	GLY	C-O	-5.45	1.15	1.23
1	A	464	PRO	N-CD	-5.45	1.40	1.47
2	B	358	LYS	CG-CD	5.45	1.68	1.52
3	C	104	PHE	CB-CG	-5.45	1.38	1.50
2	B	812	LEU	N-CA	-5.44	1.38	1.46
1	A	474	VAL	C-O	-5.44	1.16	1.24
1	A	1060	PRO	N-CD	-5.44	1.40	1.47
1	A	1157	ASP	N-CA	-5.44	1.39	1.46
2	B	383	ASN	CG-OD1	5.44	1.33	1.23
2	B	808	ALA	C-O	5.44	1.31	1.24
2	B	780	VAL	CB-CG2	-5.44	1.34	1.52
2	B	1086	PHE	CG-CD2	-5.44	1.27	1.38
3	C	112	ASN	CA-CB	-5.44	1.45	1.53
1	A	445	ASN	CB-CG	-5.44	1.38	1.52
1	A	1161	THR	CB-OG1	-5.44	1.35	1.43
5	F	107	VAL	N-CA	-5.44	1.39	1.46
9	K	111	LEU	C-N	5.44	1.42	1.33
1	A	904	THR	N-CA	-5.44	1.39	1.46
1	A	1441	PHE	CB-CG	-5.44	1.38	1.50
4	E	204	THR	CA-C	-5.44	1.45	1.52
9	K	63	VAL	CB-CG2	5.44	1.70	1.52
1	A	185	TRP	CG-CD2	-5.44	1.33	1.43
1	A	501	LEU	N-CA	-5.44	1.39	1.46
1	A	946	VAL	CB-CG1	-5.44	1.34	1.52
2	B	172	ILE	C-N	5.44	1.41	1.33
5	F	103	MET	CA-CB	-5.44	1.45	1.52
9	K	110	ASN	N-CA	-5.44	1.39	1.46
1	A	372	LYS	C-O	-5.43	1.17	1.24
1	A	606	LEU	N-CA	-5.43	1.39	1.46
2	B	846	ILE	C-N	5.43	1.41	1.33
2	B	989	THR	CB-CG2	-5.43	1.34	1.52
2	B	253	THR	N-CA	-5.43	1.39	1.46
6	H	115	TYR	CG-CD1	-5.43	1.27	1.39
7	I	91	ARG	C-N	-5.43	1.25	1.33
1	A	375	THR	CB-CG2	-5.43	1.34	1.52
1	A	1330	ASN	CA-C	-5.43	1.45	1.52
1	A	47	ARG	NE-CZ	5.43	1.39	1.33
1	A	130	ASP	C-O	-5.43	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	206	GLU	CD-OE2	5.43	1.35	1.25
1	A	730	GLY	N-CA	-5.43	1.37	1.45
1	A	816	HIS	CA-C	-5.43	1.45	1.52
1	A	831	THR	C-O	5.43	1.30	1.24
1	A	169	ASN	CG-ND2	-5.43	1.21	1.33
1	A	1041	ALA	N-CA	-5.43	1.39	1.46
1	A	1243	VAL	CA-CB	5.43	1.69	1.54
2	B	400	HIS	N-CA	5.43	1.53	1.46
4	E	177	ARG	CD-NE	-5.43	1.38	1.46
1	A	971	PHE	C-O	-5.42	1.16	1.24
2	B	283	VAL	CA-CB	-5.42	1.47	1.54
2	B	766	ARG	C-N	-5.42	1.26	1.34
2	B	1028	GLU	CG-CD	5.42	1.65	1.52
3	C	47	ASP	CB-CG	5.42	1.65	1.52
7	I	110	PHE	CD1-CE1	5.42	1.54	1.38
9	K	22	ASP	CG-OD1	5.42	1.35	1.25
9	K	73	LEU	CG-CD1	-5.42	1.34	1.52
2	B	583	ASN	C-O	5.42	1.30	1.23
2	B	854	LEU	CB-CG	-5.42	1.42	1.53
2	B	1023	VAL	C-N	5.42	1.41	1.33
3	C	242	GLN	CG-CD	5.42	1.65	1.52
1	A	1026	LEU	CA-C	5.42	1.60	1.52
2	B	757	PRO	CA-C	-5.42	1.46	1.52
2	B	810	GLU	CD-OE2	5.42	1.35	1.25
2	B	459	TYR	CE2-CZ	5.42	1.51	1.38
1	A	635	ARG	CZ-NH1	5.42	1.40	1.32
1	A	767	GLN	CG-CD	-5.42	1.38	1.52
1	A	1029	ARG	CZ-NH2	-5.42	1.26	1.33
8	J	35	ALA	CA-C	-5.42	1.45	1.52
10	L	47	ARG	CA-CB	5.42	1.62	1.53
1	A	354	SER	N-CA	-5.42	1.39	1.45
1	A	1108	ALA	N-CA	-5.41	1.39	1.46
2	B	51	PHE	CE2-CZ	5.41	1.54	1.38
2	B	818	PRO	CA-C	5.41	1.58	1.52
4	E	198	ILE	C-N	-5.41	1.26	1.33
5	F	120	ILE	C-N	-5.41	1.25	1.33
2	B	1052	VAL	CB-CG1	-5.41	1.34	1.52
2	B	1128	LEU	C-N	5.41	1.40	1.33
3	C	89	GLU	CD-OE1	5.41	1.35	1.25
1	A	399	HIS	CD2-NE2	-5.41	1.31	1.37
3	C	192	TRP	CE3-CZ3	-5.41	1.22	1.38
4	E	35	VAL	CA-CB	-5.41	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	I	117	LYS	CD-CE	5.41	1.68	1.52
2	B	995	ARG	CB-CG	5.41	1.68	1.52
3	C	87	PHE	N-CA	-5.41	1.38	1.46
3	C	160	LYS	CE-NZ	5.41	1.65	1.49
6	H	145	ARG	CZ-NH1	5.41	1.40	1.32
9	K	107	THR	C-N	5.41	1.41	1.33
2	B	768	THR	CB-CG2	-5.41	1.34	1.52
2	B	821	GLN	C-O	-5.41	1.17	1.23
4	E	156	LEU	C-O	-5.41	1.17	1.24
2	B	1105	ALA	CA-CB	-5.40	1.44	1.53
3	C	76	ASP	CA-CB	5.40	1.59	1.52
1	A	359	LEU	CB-CG	-5.40	1.42	1.53
1	A	1328	TYR	CE1-CZ	-5.40	1.25	1.38
2	B	377	PHE	N-CA	-5.40	1.39	1.46
2	B	879	ARG	CA-CB	5.40	1.62	1.53
7	I	66	PRO	CA-C	-5.40	1.44	1.52
1	A	1384	VAL	C-O	-5.40	1.17	1.23
7	I	104	LEU	CG-CD2	-5.40	1.34	1.52
8	J	39	LEU	CA-C	-5.40	1.43	1.52
1	A	639	PRO	CA-CB	5.40	1.61	1.53
2	B	274	PRO	C-O	-5.40	1.18	1.23
2	B	1054	GLY	C-N	5.40	1.40	1.33
3	C	208	GLU	CD-OE1	5.40	1.35	1.25
6	H	83	GLN	C-N	5.40	1.40	1.33
7	I	86	PHE	CB-CG	-5.40	1.38	1.50
9	K	109	TRP	CG-CD2	5.40	1.53	1.43
1	A	446	ARG	CZ-NH1	5.40	1.40	1.32
1	A	596	THR	CB-OG1	5.40	1.52	1.43
2	B	288	ALA	CA-CB	-5.40	1.43	1.53
1	A	600	PRO	CA-CB	-5.39	1.46	1.53
2	B	485	ARG	NE-CZ	-5.39	1.27	1.33
2	B	534	GLY	CA-C	-5.39	1.44	1.52
8	J	19	GLU	C-N	-5.39	1.26	1.33
1	A	1315	GLU	CG-CD	5.39	1.65	1.52
2	B	575	PRO	CA-CB	5.39	1.61	1.53
9	K	84	LYS	CG-CD	5.39	1.68	1.52
10	L	25	ALA	C-N	5.39	1.41	1.33
5	F	98	ALA	C-O	-5.39	1.17	1.24
9	K	43	GLY	C-O	-5.39	1.16	1.23
5	F	108	PHE	CA-CB	-5.39	1.46	1.53
2	B	1017	ILE	N-CA	-5.39	1.40	1.46
2	B	1032	SER	CA-CB	5.39	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	H	49	VAL	CA-C	-5.39	1.46	1.52
2	B	1098	MET	CA-C	5.38	1.59	1.52
3	C	260	LEU	CA-CB	5.38	1.63	1.53
4	E	7	ARG	CG-CD	5.38	1.68	1.52
1	A	947	PHE	C-O	-5.38	1.15	1.23
2	B	643	ASP	CG-OD2	5.38	1.35	1.25
3	C	88	CYS	CB-SG	-5.38	1.63	1.81
5	F	154	ASP	CG-OD1	5.38	1.35	1.25
1	A	137	ALA	C-O	5.38	1.30	1.24
1	A	861	GLY	C-N	-5.38	1.26	1.33
1	A	1279	ILE	N-CA	-5.38	1.39	1.46
2	B	429	PHE	CA-C	5.38	1.62	1.52
3	C	108	GLU	N-CA	5.38	1.52	1.46
3	C	127	ARG	CZ-NH1	5.38	1.40	1.32
4	E	167	ARG	CD-NE	5.38	1.53	1.46
2	B	250	PHE	CA-CB	5.38	1.62	1.53
2	B	264	SER	CA-CB	-5.38	1.45	1.53
2	B	1153	GLU	CD-OE1	5.38	1.35	1.25
1	A	159	THR	CB-CG2	5.38	1.70	1.52
1	A	1424	VAL	C-O	-5.38	1.17	1.24
2	B	618	ASP	N-CA	-5.38	1.40	1.46
4	E	16	PHE	C-N	-5.38	1.27	1.33
4	E	157	SER	CB-OG	5.38	1.52	1.42
4	E	171	LYS	CA-CB	-5.38	1.44	1.53
6	H	84	ALA	C-N	5.38	1.41	1.33
1	A	844	ALA	C-O	-5.38	1.17	1.24
2	B	526	GLU	CG-CD	5.38	1.65	1.52
2	B	629	ASP	N-CA	5.38	1.52	1.45
3	C	263	THR	CB-OG1	-5.38	1.35	1.43
9	K	80	GLY	C-O	5.38	1.31	1.24
2	B	373	ARG	CA-CB	5.38	1.61	1.53
3	C	48	SER	CA-C	5.38	1.59	1.52
1	A	667	GLY	C-O	-5.37	1.17	1.23
1	A	806	ARG	CD-NE	-5.37	1.38	1.46
1	A	1114	PRO	CA-C	-5.37	1.45	1.52
2	B	37	PHE	CG-CD1	-5.37	1.27	1.38
2	B	51	PHE	CD1-CE1	5.37	1.54	1.38
2	B	458	LYS	CB-CG	5.37	1.68	1.52
5	F	125	LEU	C-O	-5.37	1.17	1.24
2	B	690	VAL	CB-CG2	-5.37	1.34	1.52
6	H	127	GLY	N-CA	5.37	1.53	1.45
1	A	724	GLU	N-CA	-5.37	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	55	VAL	CA-C	-5.37	1.46	1.52
2	B	241	ARG	CA-CB	-5.37	1.45	1.52
2	B	1084	GLN	CG-CD	5.37	1.65	1.52
5	F	134	ILE	C-N	-5.37	1.24	1.33
1	A	264	PHE	CE1-CZ	5.37	1.54	1.38
1	A	1095	THR	C-O	5.37	1.30	1.23
2	B	682	SER	C-O	5.37	1.31	1.24
3	C	97	VAL	CA-C	-5.37	1.46	1.52
4	E	120	ALA	N-CA	5.37	1.52	1.46
1	A	235	ILE	CA-C	-5.37	1.46	1.52
1	A	325	ILE	CA-C	-5.37	1.46	1.52
1	A	918	GLU	CG-CD	5.37	1.65	1.52
1	A	934	LYS	CE-NZ	5.37	1.65	1.49
1	A	1212	VAL	C-O	-5.37	1.18	1.24
6	H	32	THR	CA-C	5.37	1.59	1.52
2	B	1183	LYS	CD-CE	5.36	1.68	1.52
1	A	1203	ASN	CG-OD1	5.36	1.33	1.23
1	A	287	HIS	C-O	-5.36	1.17	1.24
1	A	419	LYS	CD-CE	5.36	1.68	1.52
1	A	500	GLU	C-O	-5.36	1.17	1.24
1	A	1432	GLN	C-O	5.36	1.30	1.23
2	B	1163	CYS	C-N	-5.36	1.26	1.33
8	J	45	CYS	CA-C	5.36	1.59	1.52
4	E	179	GLN	CD-NE2	5.36	1.44	1.33
1	A	1446	ASP	CG-OD1	5.36	1.35	1.25
2	B	30	SER	CA-CB	-5.36	1.45	1.53
2	B	116	GLU	CD-OE1	5.36	1.35	1.25
2	B	215	GLN	CB-CG	-5.36	1.36	1.52
4	E	97	VAL	CB-CG1	5.36	1.70	1.52
6	H	5	LEU	CG-CD1	-5.36	1.34	1.52
8	J	57	ILE	C-N	-5.36	1.26	1.34
1	A	305	ASP	N-CA	5.36	1.56	1.46
1	A	613	ILE	C-N	-5.36	1.25	1.33
1	A	973	ILE	CB-CG2	5.36	1.70	1.52
2	B	44	VAL	C-N	-5.36	1.26	1.34
5	F	143	PHE	CG-CD2	-5.36	1.27	1.38
1	A	241	VAL	N-CA	-5.35	1.42	1.46
1	A	424	ILE	C-O	-5.35	1.18	1.24
3	C	137	LYS	CA-C	-5.35	1.45	1.52
2	B	592	ASN	CA-C	5.35	1.59	1.52
1	A	228	PHE	CG-CD2	-5.35	1.27	1.38
1	A	680	THR	CA-CB	-5.35	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	30	ILE	CB-CG2	5.35	1.70	1.52
2	B	133	LYS	CA-C	5.35	1.59	1.52
2	B	616	ILE	CB-CG1	-5.35	1.42	1.53
2	B	777	ALA	C-O	-5.35	1.17	1.23
3	C	17	ASN	C-O	-5.35	1.17	1.23
4	E	48	ASP	N-CA	5.35	1.53	1.46
6	H	34	ASP	CG-OD1	5.35	1.35	1.25
8	J	8	PHE	CE1-CZ	5.35	1.54	1.38
1	A	483	ASP	C-N	5.35	1.41	1.33
1	A	576	GLN	C-N	-5.35	1.27	1.33
2	B	287	ARG	C-N	5.35	1.41	1.33
2	B	749	LEU	CB-CG	-5.35	1.42	1.53
2	B	1009	ASP	N-CA	-5.35	1.39	1.46
9	K	60	ALA	C-N	5.35	1.40	1.33
1	A	531	ILE	CB-CG2	-5.35	1.34	1.52
1	A	988	LEU	CG-CD2	-5.35	1.34	1.52
1	A	998	LEU	CA-CB	5.35	1.62	1.53
1	A	1141	THR	CA-CB	-5.35	1.44	1.53
1	A	241	VAL	C-O	-5.34	1.18	1.24
1	A	724	GLU	CA-C	-5.34	1.45	1.52
1	A	866	PHE	CG-CD2	-5.34	1.27	1.38
2	B	370	PHE	CA-CB	5.34	1.62	1.53
2	B	785	TYR	CE1-CZ	5.34	1.51	1.38
3	C	90	ASP	CG-OD1	5.34	1.35	1.25
3	C	205	LYS	CE-NZ	5.34	1.65	1.49
4	E	28	TYR	CD1-CE1	5.34	1.54	1.38
6	H	146	ARG	C-OXT	5.34	1.34	1.23
1	A	1093	LYS	CA-CB	5.34	1.62	1.53
1	A	1230	GLU	CA-CB	5.34	1.60	1.53
3	C	118	LEU	C-O	5.34	1.30	1.24
4	E	133	GLU	CD-OE2	5.34	1.35	1.25
5	F	130	ILE	CA-C	-5.34	1.48	1.53
1	A	91	PHE	C-O	-5.34	1.17	1.23
1	A	776	ALA	N-CA	-5.34	1.39	1.45
1	A	901	LEU	C-O	5.34	1.30	1.24
1	A	1190	PRO	CA-C	-5.34	1.45	1.52
1	A	1349	TYR	CD2-CE2	5.34	1.54	1.38
2	B	288	ALA	C-O	5.34	1.30	1.24
2	B	938	SER	C-O	-5.34	1.17	1.23
6	H	43	ASN	CB-CG	5.34	1.65	1.52
9	K	66	PRO	N-CD	-5.34	1.40	1.47
1	A	84	ILE	CB-CG1	-5.34	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	145	LYS	CB-CG	5.34	1.68	1.52
1	A	215	SER	CB-OG	-5.34	1.31	1.42
1	A	1165	GLU	C-N	-5.34	1.26	1.33
1	A	1272	THR	CA-CB	5.34	1.61	1.53
2	B	853	SER	N-CA	-5.34	1.39	1.45
2	B	1015	HIS	CD2-NE2	5.34	1.43	1.37
8	J	62	ARG	NE-CZ	5.34	1.39	1.33
1	A	346	ASP	CG-OD1	5.34	1.35	1.25
2	B	901	PRO	C-O	-5.34	1.17	1.23
2	B	1026	LEU	CB-CG	-5.34	1.42	1.53
1	A	644	LYS	CE-NZ	5.34	1.65	1.49
1	A	1282	VAL	C-N	-5.34	1.26	1.33
2	B	597	MET	CA-CB	-5.34	1.45	1.53
4	E	146	HIS	CG-ND1	5.34	1.44	1.38
6	H	97	MET	N-CA	-5.34	1.39	1.45
1	A	106	VAL	C-N	5.33	1.40	1.33
2	B	457	LEU	CG-CD2	5.33	1.70	1.52
2	B	1084	GLN	CB-CG	-5.33	1.36	1.52
3	C	260	LEU	CB-CG	5.33	1.64	1.53
1	A	915	SER	N-CA	-5.33	1.39	1.46
1	A	1298	TYR	CE2-CZ	-5.33	1.25	1.38
1	A	1303	GLU	CA-C	5.33	1.58	1.52
2	B	679	TYR	C-O	5.33	1.30	1.24
2	B	901	PRO	C-N	-5.33	1.25	1.33
4	E	25	ASP	CG-OD1	5.33	1.35	1.25
6	H	118	PHE	N-CA	-5.33	1.39	1.46
10	L	66	GLN	CD-NE2	5.33	1.44	1.33
1	A	845	LEU	CB-CG	-5.33	1.42	1.53
7	I	118	ARG	CG-CD	5.33	1.68	1.52
1	A	63	ARG	CB-CG	5.33	1.68	1.52
1	A	65	LEU	N-CA	5.33	1.53	1.46
7	I	45	ARG	CA-CB	-5.33	1.43	1.53
9	K	68	PHE	CA-C	5.33	1.59	1.52
1	A	1262	LYS	CD-CE	5.33	1.68	1.52
1	A	1370	LEU	CG-CD1	-5.33	1.34	1.52
1	A	438	ASP	CG-OD1	-5.33	1.15	1.25
1	A	502	SER	CB-OG	5.33	1.52	1.42
1	A	518	LYS	C-N	-5.33	1.26	1.33
1	A	1150	SER	CA-CB	-5.33	1.45	1.53
1	A	552	TRP	CG-CD1	-5.32	1.23	1.36
1	A	1140	HIS	CG-CD2	-5.32	1.29	1.35
7	I	10	CYS	CA-CB	5.32	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	365	THR	CA-CB	5.32	1.63	1.53
1	A	196	GLU	N-CA	5.32	1.53	1.46
1	A	601	LYS	CE-NZ	5.32	1.65	1.49
1	A	830	LYS	N-CA	-5.32	1.40	1.46
1	A	1127	ASP	CA-C	5.32	1.59	1.52
1	A	1336	MET	N-CA	-5.32	1.40	1.46
2	B	96	TYR	CD2-CE2	5.32	1.54	1.38
10	L	54	ARG	NE-CZ	-5.32	1.27	1.33
1	A	120	GLU	CA-CB	5.32	1.62	1.53
1	A	1057	VAL	CB-CG2	-5.32	1.35	1.52
2	B	514	LEU	C-N	-5.32	1.26	1.33
2	B	581	PHE	N-CA	5.32	1.52	1.46
2	B	641	GLU	CB-CG	5.32	1.68	1.52
2	B	833	TYR	N-CA	5.32	1.53	1.46
2	B	860	MET	N-CA	5.32	1.52	1.45
4	E	192	ARG	CG-CD	5.32	1.68	1.52
1	A	473	SER	CB-OG	5.32	1.52	1.42
5	F	126	ALA	C-O	-5.32	1.17	1.24
6	H	114	VAL	N-CA	-5.32	1.40	1.46
7	I	73	ARG	CA-CB	-5.32	1.44	1.53
9	K	76	GLN	CD-OE1	-5.32	1.13	1.23
10	L	47	ARG	CZ-NH2	5.32	1.40	1.33
4	E	21	GLU	CD-OE2	5.31	1.35	1.25
1	A	1318	THR	C-O	-5.31	1.17	1.24
1	A	1421	CYS	C-N	-5.31	1.25	1.33
2	B	97	VAL	N-CA	-5.31	1.40	1.46
2	B	302	CYS	N-CA	5.31	1.53	1.46
2	B	483	LEU	CA-C	-5.31	1.45	1.52
2	B	796	LEU	C-O	-5.31	1.17	1.23
5	F	131	PRO	CA-C	-5.31	1.48	1.53
8	J	3	VAL	N-CA	5.31	1.53	1.46
2	B	588	GLY	C-N	5.31	1.40	1.33
4	E	197	LYS	CA-C	-5.31	1.46	1.52
7	I	70	ARG	CZ-NH1	5.31	1.40	1.32
1	A	47	ARG	C-N	5.31	1.41	1.33
1	A	81	PHE	CE1-CZ	-5.31	1.22	1.38
1	A	201	VAL	N-CA	-5.31	1.39	1.46
1	A	873	MET	CA-CB	5.31	1.62	1.53
2	B	379	GLY	C-O	-5.31	1.17	1.23
2	B	615	MET	CA-CB	-5.31	1.43	1.53
2	B	784	ASN	CB-CG	-5.31	1.38	1.52
5	F	137	TYR	C-O	5.31	1.30	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	H	98	TYR	CA-C	-5.31	1.46	1.52
8	J	13	VAL	C-N	-5.31	1.26	1.33
1	A	552	TRP	CE2-CZ2	-5.30	1.28	1.39
1	A	977	LYS	C-O	5.30	1.29	1.24
2	B	1223	ASP	CB-CG	-5.30	1.38	1.52
1	A	1054	LEU	C-O	-5.30	1.17	1.24
7	I	57	GLY	C-N	-5.30	1.28	1.33
10	L	26	THR	C-N	5.30	1.41	1.33
1	A	621	THR	N-CA	-5.30	1.39	1.46
1	A	955	PRO	N-CA	-5.30	1.41	1.47
3	C	29	MET	CB-CG	5.30	1.68	1.52
9	K	56	VAL	CA-CB	5.30	1.59	1.53
9	K	87	LEU	C-O	5.30	1.30	1.24
1	A	691	LEU	N-CA	-5.30	1.39	1.46
2	B	552	MET	N-CA	-5.30	1.38	1.46
2	B	632	ARG	CZ-NH2	-5.30	1.26	1.33
1	A	589	GLN	CG-CD	5.30	1.65	1.52
1	A	668	ASP	CB-CG	-5.30	1.38	1.52
1	A	811	GLN	CA-CB	-5.30	1.45	1.53
2	B	1155	SER	CA-C	5.30	1.59	1.52
1	A	927	VAL	CA-C	5.29	1.60	1.52
2	B	63	ILE	CB-CG1	-5.29	1.42	1.53
3	C	45	ALA	C-O	5.29	1.30	1.23
1	A	6	TYR	CG-CD1	5.29	1.50	1.39
1	A	205	GLU	CB-CG	5.29	1.68	1.52
1	A	1296	GLY	C-N	-5.29	1.25	1.33
2	B	840	ILE	CA-C	5.29	1.59	1.52
2	B	914	LYS	CA-CB	-5.29	1.45	1.53
4	E	37	LEU	CA-CB	5.29	1.61	1.53
1	A	514	PRO	N-CD	5.29	1.55	1.47
1	A	886	ILE	CB-CG1	-5.29	1.42	1.53
1	A	923	LEU	CG-CD1	-5.29	1.35	1.52
1	A	1379	GLY	N-CA	-5.29	1.37	1.45
2	B	183	GLU	CG-CD	5.29	1.65	1.52
2	B	524	PRO	C-N	-5.29	1.26	1.33
3	C	164	ALA	CA-C	-5.29	1.45	1.52
4	E	191	LYS	CE-NZ	5.29	1.65	1.49
2	B	396	ASP	CG-OD1	5.29	1.35	1.25
4	E	174	GLN	CD-NE2	-5.29	1.22	1.33
10	L	29	TYR	CE1-CZ	-5.29	1.25	1.38
1	A	43	GLU	N-CA	5.29	1.53	1.46
1	A	369	SER	CA-CB	-5.29	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	746	MET	N-CA	-5.29	1.40	1.46
1	A	1202	MET	CA-C	5.29	1.59	1.52
3	C	244	VAL	CA-C	5.29	1.59	1.52
6	H	80	ARG	CB-CG	5.29	1.68	1.52
10	L	54	ARG	C-N	5.29	1.40	1.33
1	A	556	TRP	CD2-CE3	-5.29	1.31	1.40
2	B	1163	CYS	C-O	-5.29	1.17	1.23
4	E	114	ASN	C-O	5.29	1.30	1.24
5	F	84	TYR	CD1-CE1	5.29	1.54	1.38
1	A	821	ARG	CB-CG	5.28	1.68	1.52
6	H	109	LYS	CB-CG	5.28	1.68	1.52
10	L	60	ARG	CG-CD	5.28	1.68	1.52
3	C	49	VAL	CA-C	5.28	1.59	1.52
1	A	167	CYS	CA-C	5.28	1.59	1.52
1	A	823	GLY	C-N	-5.28	1.26	1.34
1	A	1381	LEU	CA-CB	-5.28	1.46	1.52
2	B	697	GLU	C-O	-5.28	1.17	1.24
3	C	127	ARG	CG-CD	-5.28	1.36	1.52
1	A	1214	GLU	CD-OE2	5.28	1.35	1.25
2	B	317	CYS	C-N	-5.28	1.27	1.33
2	B	900	ALA	C-O	-5.28	1.18	1.24
1	A	11	LEU	N-CA	5.28	1.52	1.46
6	H	26	ILE	CA-C	-5.28	1.46	1.52
6	H	80	ARG	CA-CB	5.28	1.61	1.54
1	A	607	ILE	C-O	5.28	1.29	1.23
1	A	1014	ALA	C-O	5.28	1.30	1.24
1	A	192	GLY	CA-C	5.27	1.61	1.52
2	B	601	ARG	CA-C	-5.27	1.46	1.52
2	B	388	CYS	N-CA	-5.27	1.39	1.46
2	B	698	GLU	C-N	-5.27	1.25	1.33
3	C	208	GLU	CA-CB	5.27	1.62	1.53
4	E	63	ASN	CA-C	5.27	1.60	1.53
4	E	179	GLN	CD-OE1	5.27	1.33	1.23
7	I	3	THR	CB-OG1	5.27	1.52	1.43
6	H	8	ASP	C-N	5.27	1.40	1.33
1	A	471	ASN	CB-CG	5.27	1.65	1.52
2	B	741	CYS	CA-C	5.27	1.58	1.52
2	B	1069	PHE	CE2-CZ	-5.27	1.22	1.38
1	A	749	ALA	CA-CB	5.27	1.62	1.53
3	C	14	SER	CB-OG	5.27	1.52	1.42
5	F	151	LEU	CA-CB	-5.27	1.45	1.53
1	A	583	PRO	C-O	5.27	1.31	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	61	ILE	C-N	5.26	1.41	1.33
2	B	862	GLN	CD-OE1	5.26	1.33	1.23
1	A	572	TRP	NE1-CE2	-5.26	1.31	1.37
1	A	1270	ASN	CB-CG	5.26	1.65	1.52
2	B	1047	PHE	CE1-CZ	5.26	1.54	1.38
1	A	106	VAL	CB-CG1	5.26	1.70	1.52
1	A	459	ARG	CA-C	5.26	1.59	1.52
1	A	1220	PHE	CE1-CZ	-5.26	1.22	1.38
2	B	133	LYS	C-N	5.26	1.41	1.33
2	B	693	ILE	N-CA	5.26	1.52	1.46
2	B	826	ALA	N-CA	-5.26	1.39	1.46
1	A	968	GLN	CD-OE1	5.26	1.33	1.23
1	A	1352	VAL	C-N	-5.26	1.26	1.33
2	B	459	TYR	CD1-CE1	5.26	1.54	1.38
3	C	104	PHE	CD1-CE1	5.26	1.54	1.38
3	C	134	ILE	CB-CG2	-5.26	1.35	1.52
10	L	51	CYS	CA-C	5.26	1.58	1.52
1	A	561	PRO	CG-CD	5.26	1.68	1.50
2	B	879	ARG	C-O	5.26	1.30	1.24
2	B	1213	THR	CB-OG1	5.26	1.52	1.43
6	H	49	VAL	CB-CG1	-5.26	1.35	1.52
8	J	35	ALA	N-CA	-5.26	1.40	1.46
9	K	3	ALA	C-O	5.26	1.31	1.24
9	K	67	PHE	C-O	-5.26	1.17	1.24
4	E	106	GLN	CB-CG	5.25	1.68	1.52
5	F	148	VAL	CA-CB	-5.25	1.47	1.54
8	J	28	ASP	CG-OD2	5.25	1.35	1.25
9	K	76	GLN	C-N	5.25	1.40	1.33
9	K	89	ASN	CG-OD1	5.25	1.33	1.23
1	A	1198	ASP	CG-OD2	-5.25	1.15	1.25
2	B	577	ALA	CA-CB	-5.25	1.45	1.53
5	F	84	TYR	CA-CB	-5.25	1.45	1.53
7	I	8	ARG	CG-CD	5.25	1.68	1.52
1	A	288	ALA	CA-C	5.25	1.59	1.52
1	A	902	LEU	CA-C	-5.25	1.45	1.52
10	L	42	ARG	C-O	5.25	1.30	1.24
2	B	26	THR	CA-C	5.25	1.59	1.52
2	B	666	TYR	CD2-CE2	5.25	1.54	1.38
1	A	172	PRO	N-CA	-5.25	1.40	1.47
1	A	566	ILE	CA-C	-5.25	1.47	1.52
1	A	1430	LEU	CB-CG	-5.25	1.43	1.53
2	B	241	ARG	CZ-NH2	-5.25	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	608	ASP	CB-CG	5.25	1.65	1.52
2	B	1164	GLY	N-CA	5.25	1.51	1.45
3	C	179	GLU	CB-CG	5.25	1.68	1.52
7	I	14	LEU	CA-C	-5.25	1.46	1.52
1	A	42	ASP	N-CA	5.25	1.52	1.46
1	A	1319	VAL	CA-C	-5.25	1.47	1.52
2	B	516	ASN	CG-OD1	5.25	1.33	1.23
2	B	767	ASN	N-CA	-5.25	1.39	1.46
2	B	866	TYR	CE1-CZ	5.25	1.50	1.38
2	B	1197	PRO	CA-C	5.25	1.58	1.52
7	I	6	PHE	CA-CB	-5.25	1.40	1.54
1	A	736	ASN	CA-CB	5.24	1.63	1.53
2	B	942	ARG	NE-CZ	5.24	1.38	1.33
2	B	1195	HIS	CA-C	5.24	1.59	1.52
6	H	124	ARG	C-O	-5.24	1.17	1.24
2	B	1100	ASP	N-CA	5.24	1.52	1.46
2	B	1148	LYS	CE-NZ	-5.24	1.33	1.49
5	F	77	ASP	C-O	5.24	1.30	1.23
7	I	15	TYR	CG-CD2	-5.24	1.28	1.39
2	B	419	THR	CB-OG1	-5.24	1.35	1.43
4	E	153	HIS	N-CA	5.24	1.52	1.46
3	C	136	ASP	C-O	5.24	1.30	1.23
6	H	98	TYR	N-CA	-5.24	1.40	1.46
6	H	134	ASN	C-O	-5.24	1.17	1.24
6	H	146	ARG	N-CA	5.24	1.56	1.46
1	A	685	GLU	CD-OE2	5.23	1.35	1.25
1	A	781	ASP	CB-CG	5.23	1.65	1.52
3	C	50	GLU	CB-CG	5.23	1.68	1.52
7	I	103	CYS	CA-CB	5.23	1.61	1.53
7	I	115	LYS	C-O	5.23	1.32	1.23
9	K	70	ARG	CA-CB	-5.23	1.44	1.53
1	A	772	GLY	N-CA	-5.23	1.37	1.45
2	B	586	TRP	CG-CD1	-5.23	1.23	1.36
2	B	827	ILE	CA-C	-5.23	1.46	1.52
2	B	1108	ARG	CA-CB	5.23	1.62	1.53
3	C	20	PHE	CG-CD1	5.23	1.49	1.38
4	E	148	GLU	C-O	-5.23	1.17	1.24
1	A	147	VAL	CA-C	5.23	1.59	1.52
1	A	1204	ASP	CB-CG	5.23	1.65	1.52
1	A	1206	ASP	CA-CB	5.23	1.61	1.53
2	B	1186	ASP	CB-CG	5.23	1.65	1.52
3	C	70	ILE	CA-CB	-5.23	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	H	129	TYR	CZ-OH	5.23	1.49	1.38
9	K	5	ASP	CG-OD1	5.23	1.35	1.25
1	A	513	SER	CA-CB	-5.23	1.46	1.53
2	B	94	LYS	CD-CE	5.23	1.68	1.52
2	B	455	SER	N-CA	-5.23	1.39	1.46
2	B	1138	MET	CA-C	5.23	1.59	1.52
2	B	1012	ILE	CA-C	-5.22	1.46	1.52
2	B	1155	SER	C-N	5.22	1.40	1.33
1	A	1147	THR	C-N	-5.22	1.26	1.33
1	A	1381	LEU	CA-C	-5.22	1.46	1.52
2	B	103	ASN	CG-OD1	5.22	1.33	1.23
2	B	943	SER	N-CA	5.22	1.52	1.46
2	B	1128	LEU	CG-CD1	-5.22	1.35	1.52
6	H	37	LYS	CG-CD	5.22	1.68	1.52
1	A	736	ASN	CA-C	-5.22	1.45	1.52
1	A	155	GLU	CA-C	5.22	1.59	1.52
1	A	913	LEU	CB-CG	-5.22	1.43	1.53
2	B	490	SER	CA-C	-5.22	1.45	1.52
2	B	1130	PHE	CE2-CZ	-5.22	1.23	1.38
3	C	64	ALA	N-CA	5.22	1.52	1.46
3	C	229	TYR	CE1-CZ	-5.22	1.25	1.38
10	L	29	TYR	CD2-CE2	-5.22	1.23	1.38
1	A	420	ARG	CA-C	-5.22	1.45	1.52
1	A	845	LEU	C-N	-5.22	1.26	1.34
1	A	893	PHE	CD1-CE1	-5.22	1.23	1.38
2	B	61	ASP	C-O	5.22	1.30	1.24
2	B	940	PRO	CA-C	-5.22	1.45	1.52
4	E	61	GLN	N-CA	-5.22	1.38	1.46
1	A	1301	GLU	C-O	-5.21	1.17	1.24
2	B	239	GLU	CA-CB	-5.21	1.44	1.53
2	B	594	ALA	CA-CB	5.21	1.61	1.53
1	A	1028	THR	C-N	-5.21	1.27	1.33
2	B	260	GLY	CA-C	5.21	1.59	1.51
1	A	589	GLN	C-N	5.21	1.40	1.33
1	A	1032	LEU	N-CA	-5.21	1.39	1.46
2	B	380	TYR	C-O	5.21	1.30	1.24
3	C	193	TYR	CE2-CZ	-5.21	1.25	1.38
9	K	21	ILE	N-CA	5.21	1.52	1.46
1	A	701	LEU	CB-CG	5.21	1.63	1.53
1	A	711	ARG	CZ-NH1	-5.21	1.25	1.32
2	B	482	VAL	C-O	-5.21	1.18	1.24
2	B	611	PRO	CA-C	5.21	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	643	ASP	CA-C	-5.21	1.42	1.52
2	B	1026	LEU	CA-C	5.21	1.59	1.52
2	B	1161	HIS	ND1-CE1	5.21	1.37	1.32
1	A	384	ASN	C-N	-5.21	1.27	1.34
1	A	731	ARG	CG-CD	5.21	1.68	1.52
2	B	135	ARG	CD-NE	5.21	1.53	1.46
4	E	205	SER	CA-CB	-5.21	1.45	1.54
1	A	724	GLU	C-N	-5.21	1.27	1.33
1	A	1235	LYS	CA-C	5.20	1.58	1.52
2	B	1203	LEU	CA-CB	-5.20	1.45	1.53
9	K	10	PHE	N-CA	5.20	1.53	1.46
1	A	13	THR	C-N	-5.20	1.26	1.33
2	B	666	TYR	N-CA	5.20	1.52	1.46
1	A	1281	ARG	CA-C	5.20	1.59	1.52
2	B	287	ARG	CZ-NH1	5.20	1.40	1.32
7	I	84	VAL	CA-C	5.20	1.59	1.52
1	A	1290	LYS	CG-CD	5.20	1.68	1.52
2	B	348	ARG	C-N	-5.20	1.27	1.33
4	E	59	SER	N-CA	5.20	1.52	1.46
6	H	33	GLN	CB-CG	5.20	1.68	1.52
9	K	106	GLU	CD-OE1	5.20	1.35	1.25
1	A	687	LYS	C-O	5.20	1.30	1.24
1	A	714	PHE	CD2-CE2	-5.20	1.23	1.38
1	A	815	PHE	CE2-CZ	-5.20	1.23	1.38
1	A	508	PRO	C-O	5.20	1.30	1.24
1	A	1351	GLU	CD-OE2	5.20	1.35	1.25
2	B	29	ASP	CG-OD1	5.20	1.35	1.25
2	B	618	ASP	CA-CB	5.20	1.61	1.53
7	I	85	PHE	CG-CD2	-5.20	1.27	1.38
1	A	299	HIS	CA-CB	5.19	1.61	1.53
1	A	787	PHE	CA-C	-5.19	1.46	1.52
1	A	1281	ARG	CZ-NH2	5.19	1.40	1.33
2	B	666	TYR	CG-CD2	5.19	1.50	1.39
4	E	96	PHE	CD1-CE1	5.19	1.54	1.38
4	E	198	ILE	C-O	-5.19	1.18	1.24
9	K	79	GLU	CB-CG	5.19	1.68	1.52
1	A	659	HIS	CG-CD2	5.19	1.41	1.35
1	A	661	GLY	CA-C	5.19	1.58	1.52
1	A	923	LEU	N-CA	5.19	1.52	1.46
1	A	487	MET	CG-SD	5.19	1.93	1.80
1	A	1435	PRO	N-CD	-5.19	1.40	1.47
4	E	11	ARG	CB-CG	5.19	1.68	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	15	ALA	N-CA	5.19	1.52	1.46
1	A	751	SER	CB-OG	5.19	1.52	1.42
1	A	774	ARG	C-N	5.19	1.40	1.33
2	B	133	LYS	CG-CD	5.19	1.68	1.52
4	E	121	MET	CA-C	-5.19	1.45	1.52
1	A	275	SER	C-O	5.19	1.30	1.24
1	A	675	THR	C-O	-5.19	1.18	1.24
1	A	890	ASP	CA-CB	-5.19	1.45	1.53
2	B	240	ILE	CB-CG2	-5.19	1.35	1.52
2	B	372	SER	CA-C	5.19	1.59	1.52
6	H	114	VAL	C-O	5.19	1.29	1.24
1	A	441	PRO	CA-C	-5.18	1.46	1.52
2	B	200	GLY	N-CA	-5.18	1.38	1.45
2	B	316	PRO	N-CA	5.18	1.54	1.47
3	C	82	TYR	C-O	-5.18	1.17	1.23
1	A	432	VAL	N-CA	-5.18	1.39	1.46
1	A	1168	GLU	CA-C	5.18	1.59	1.52
1	A	1362	TYR	CG-CD2	-5.18	1.28	1.39
2	B	630	ALA	N-CA	5.18	1.52	1.45
2	B	725	PRO	CG-CD	-5.18	1.33	1.50
1	A	1056	SER	CB-OG	-5.18	1.31	1.42
2	B	405	ARG	CA-C	-5.18	1.46	1.52
2	B	1194	ILE	C-N	5.18	1.40	1.33
3	C	87	PHE	CB-CG	-5.18	1.38	1.50
1	A	174	ILE	N-CA	-5.18	1.40	1.46
2	B	458	LYS	CA-C	-5.18	1.46	1.52
2	B	899	ILE	N-CA	-5.18	1.39	1.46
3	C	110	THR	N-CA	5.18	1.52	1.46
3	C	149	LYS	CB-CG	5.18	1.68	1.52
4	E	73	PRO	CA-C	5.18	1.59	1.52
2	B	1181	GLU	C-O	5.18	1.30	1.24
3	C	165	LYS	CD-CE	5.18	1.68	1.52
4	E	155	ARG	CD-NE	5.18	1.53	1.46
7	I	62	ILE	CB-CG2	-5.18	1.35	1.52
1	A	264	PHE	CG-CD1	5.17	1.49	1.38
1	A	266	LEU	CA-CB	-5.17	1.45	1.53
1	A	538	ASP	N-CA	-5.17	1.39	1.46
1	A	804	TYR	CE1-CZ	-5.17	1.25	1.38
2	B	328	GLU	C-N	-5.17	1.27	1.33
10	L	54	ARG	N-CA	5.17	1.52	1.46
1	A	167	CYS	C-O	-5.17	1.17	1.24
2	B	434	ARG	NE-CZ	5.17	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	J	14	VAL	N-CA	-5.17	1.39	1.46
10	L	65	VAL	CA-CB	-5.17	1.47	1.54
1	A	723	ASN	CG-OD1	5.17	1.33	1.23
1	A	760	GLN	CA-CB	-5.17	1.45	1.53
2	B	955	THR	CB-OG1	5.17	1.52	1.43
3	C	143	LEU	CG-CD2	-5.17	1.35	1.52
1	A	407	ARG	CB-CG	5.17	1.68	1.52
1	A	693	VAL	CA-CB	-5.17	1.47	1.54
2	B	130	VAL	CA-C	5.17	1.59	1.52
2	B	457	LEU	CG-CD1	5.17	1.69	1.52
9	K	90	ALA	CA-C	-5.17	1.45	1.52
1	A	532	ARG	CZ-NH2	-5.17	1.26	1.33
2	B	759	PRO	C-O	5.17	1.31	1.24
6	H	3	ASN	C-O	-5.17	1.18	1.23
1	A	491	VAL	CB-CG2	-5.17	1.35	1.52
1	A	720	ARG	CA-CB	5.17	1.61	1.53
1	A	832	ALA	C-O	-5.17	1.17	1.24
1	A	1127	ASP	CG-OD2	5.17	1.35	1.25
3	C	6	PRO	N-CD	5.17	1.54	1.47
8	J	33	GLY	C-O	-5.17	1.17	1.23
1	A	680	THR	N-CA	-5.17	1.39	1.46
1	A	953	ASN	N-CA	-5.17	1.39	1.46
1	A	99	ILE	C-O	5.16	1.30	1.24
1	A	1157	ASP	CG-OD1	5.16	1.35	1.25
1	A	1203	ASN	CB-CG	-5.16	1.39	1.52
3	C	267	GLN	CB-CG	5.16	1.68	1.52
4	E	135	PHE	CG-CD2	-5.16	1.28	1.38
1	A	469	ARG	NE-CZ	-5.16	1.27	1.33
2	B	581	PHE	CE2-CZ	-5.16	1.23	1.38
3	C	251	LEU	CG-CD1	5.16	1.69	1.52
1	A	920	LEU	CG-CD2	-5.16	1.35	1.52
1	A	1208	THR	CB-CG2	5.16	1.69	1.52
2	B	68	THR	CA-C	5.16	1.58	1.52
2	B	882	THR	C-O	5.16	1.29	1.24
3	C	256	ALA	C-O	5.16	1.30	1.24
1	A	187	LYS	CG-CD	5.16	1.68	1.52
1	A	965	GLN	CB-CG	-5.16	1.36	1.52
2	B	31	TRP	CZ2-CH2	5.16	1.47	1.37
3	C	115	SER	CA-C	-5.16	1.45	1.52
1	A	458	HIS	CB-CG	-5.16	1.43	1.50
1	A	1199	ARG	CD-NE	5.16	1.53	1.46
1	A	473	SER	N-CA	5.16	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1226	VAL	CA-C	5.16	1.59	1.52
1	A	648	ASN	C-N	-5.15	1.27	1.33
1	A	428	TYR	CA-C	5.15	1.59	1.52
1	A	447	GLN	C-O	-5.15	1.17	1.23
1	A	626	ASN	CG-OD1	5.15	1.33	1.23
2	B	177	LYS	CA-CB	5.15	1.61	1.53
3	C	114	TYR	CG-CD1	-5.15	1.28	1.39
3	C	128	ASN	CA-C	5.15	1.59	1.52
4	E	109	ILE	C-O	5.15	1.29	1.24
1	A	451	HIS	ND1-CE1	5.15	1.37	1.32
4	E	183	PRO	C-N	-5.15	1.27	1.33
3	C	23	SER	N-CA	5.15	1.52	1.46
3	C	87	PHE	CD2-CE2	5.15	1.54	1.38
2	B	38	PHE	CE2-CZ	5.15	1.54	1.38
2	B	1217	TYR	CA-CB	5.15	1.61	1.53
5	F	154	ASP	CA-C	5.15	1.63	1.52
9	K	81	TYR	CE2-CZ	5.15	1.50	1.38
1	A	248	PRO	N-CA	5.15	1.54	1.47
1	A	265	LYS	CA-CB	5.14	1.61	1.53
1	A	945	GLU	CD-OE2	5.14	1.35	1.25
1	A	1059	HIS	C-O	-5.14	1.17	1.24
2	B	790	ASP	CG-OD2	5.14	1.35	1.25
2	B	1033	LYS	CG-CD	5.14	1.67	1.52
2	B	1108	ARG	C-O	5.14	1.30	1.24
2	B	1108	ARG	N-CA	5.14	1.52	1.46
4	E	92	THR	CA-C	5.14	1.59	1.52
2	B	701	ILE	CA-C	-5.14	1.46	1.52
2	B	731	VAL	C-N	-5.14	1.26	1.33
3	C	257	SER	CA-C	-5.14	1.45	1.52
3	C	261	ALA	C-N	-5.14	1.27	1.33
1	A	207	ILE	CB-CG2	5.14	1.69	1.52
1	A	545	GLN	CA-C	-5.14	1.46	1.52
1	A	894	GLU	CG-CD	5.14	1.65	1.52
1	A	1311	VAL	CA-CB	5.14	1.61	1.54
1	A	49	LYS	C-N	5.14	1.40	1.33
1	A	110	CYS	C-O	5.14	1.30	1.24
2	B	92	PHE	CA-CB	5.14	1.61	1.53
10	L	66	GLN	CD-OE1	5.14	1.33	1.23
1	A	838	GLN	CG-CD	5.14	1.64	1.52
1	A	951	GLU	N-CA	-5.14	1.39	1.46
2	B	566	LEU	C-O	-5.14	1.18	1.24
3	C	220	ASP	C-O	5.14	1.29	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	298	PHE	CD2-CE2	5.14	1.54	1.38
1	A	363	GLN	C-O	5.14	1.30	1.23
1	A	428	TYR	CD1-CE1	5.14	1.54	1.38
1	A	707	GLY	C-N	-5.14	1.27	1.33
5	F	114	GLU	C-O	5.14	1.29	1.23
1	A	549	MET	CG-SD	-5.13	1.68	1.80
1	A	675	THR	CB-OG1	-5.13	1.35	1.43
2	B	33	VAL	CA-C	-5.13	1.46	1.52
2	B	57	TYR	CB-CG	5.13	1.62	1.51
2	B	539	LEU	CB-CG	-5.13	1.43	1.53
2	B	649	LYS	CE-NZ	-5.13	1.33	1.49
2	B	699	GLU	C-O	-5.13	1.17	1.24
2	B	1034	VAL	CA-CB	-5.13	1.48	1.54
2	B	1084	GLN	CA-C	5.13	1.59	1.52
3	C	84	ARG	CB-CG	5.13	1.67	1.52
5	F	142	SER	N-CA	5.13	1.52	1.46
6	H	25	ARG	CD-NE	-5.13	1.39	1.46
1	A	1043	ASP	CB-CG	5.13	1.64	1.52
5	F	94	LEU	CG-CD2	-5.13	1.35	1.52
1	A	452	LYS	CB-CG	5.13	1.67	1.52
1	A	595	THR	C-O	-5.13	1.17	1.23
2	B	782	LEU	C-O	5.13	1.30	1.23
3	C	194	GLU	CB-CG	5.13	1.67	1.52
4	E	73	PRO	CB-CG	5.13	1.75	1.49
1	A	469	ARG	CA-C	5.13	1.58	1.52
1	A	561	PRO	CA-C	5.13	1.58	1.52
3	C	88	CYS	C-N	-5.13	1.26	1.33
6	H	77	ARG	CA-C	5.13	1.59	1.52
6	H	130	ARG	N-CA	5.13	1.53	1.46
1	A	926	GLN	C-N	-5.12	1.27	1.33
1	A	954	TRP	N-CA	-5.12	1.39	1.46
1	A	1356	ILE	C-N	-5.12	1.26	1.33
2	B	560	GLU	N-CA	-5.12	1.40	1.46
5	F	83	PRO	CA-CB	-5.12	1.45	1.53
9	K	67	PHE	N-CA	-5.12	1.39	1.46
1	A	478	TYR	CZ-OH	5.12	1.48	1.38
2	B	113	TYR	CG-CD2	-5.12	1.28	1.39
2	B	137	TYR	CE1-CZ	5.12	1.50	1.38
3	C	167	HIS	CA-CB	-5.12	1.44	1.53
3	C	175	ALA	N-CA	-5.12	1.39	1.45
5	F	83	PRO	N-CD	-5.12	1.40	1.47
1	A	565	ILE	CB-CG2	-5.12	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1036	ARG	CZ-NH1	5.12	1.40	1.32
2	B	979	LYS	CB-CG	-5.12	1.37	1.52
3	C	168	ALA	N-CA	-5.12	1.39	1.46
3	C	169	LYS	C-O	5.12	1.30	1.24
9	K	65	HIS	CG-CD2	-5.12	1.30	1.35
9	K	66	PRO	CA-CB	-5.12	1.45	1.54
1	A	1411	GLU	CA-C	5.12	1.59	1.52
1	A	375	THR	C-N	-5.12	1.26	1.33
1	A	478	TYR	CE1-CZ	-5.12	1.25	1.38
1	A	1262	LYS	CB-CG	5.12	1.67	1.52
2	B	1049	ASP	CA-C	-5.12	1.45	1.52
3	C	35	ARG	CD-NE	-5.12	1.39	1.46
1	A	1418	LEU	C-O	-5.12	1.18	1.24
2	B	446	LEU	CA-CB	5.12	1.63	1.53
1	A	524	VAL	CB-CG2	-5.12	1.35	1.52
1	A	597	LEU	CG-CD2	5.12	1.69	1.52
1	A	612	ILE	C-N	-5.12	1.26	1.33
1	A	677	ARG	CG-CD	5.12	1.67	1.52
2	B	275	TYR	C-O	-5.12	1.12	1.24
2	B	286	PHE	N-CA	5.12	1.52	1.46
6	H	87	ARG	CB-CG	5.12	1.67	1.52
8	J	1	MET	CB-CG	-5.12	1.37	1.52
10	L	29	TYR	CE2-CZ	-5.12	1.25	1.38
1	A	998	LEU	CG-CD2	-5.11	1.35	1.52
1	A	1007	ILE	C-N	-5.11	1.27	1.33
1	A	1313	LEU	CG-CD2	-5.11	1.35	1.52
1	A	1433	MET	CB-CG	-5.11	1.37	1.52
2	B	623	GLU	CD-OE2	5.11	1.35	1.25
8	J	58	GLU	CD-OE1	-5.11	1.15	1.25
9	K	73	LEU	CG-CD2	-5.11	1.35	1.52
1	A	220	THR	N-CA	5.11	1.52	1.46
1	A	465	TYR	CE1-CZ	-5.11	1.25	1.38
1	A	1145	SER	CB-OG	5.11	1.52	1.42
8	J	52	THR	CA-C	-5.11	1.46	1.52
1	A	1140	HIS	N-CA	5.11	1.52	1.46
4	E	99	HIS	N-CA	5.11	1.52	1.46
1	A	1138	ILE	CA-CB	5.11	1.61	1.54
2	B	535	LEU	CA-C	-5.11	1.45	1.52
1	A	228	PHE	CA-C	-5.11	1.46	1.52
2	B	102	VAL	CA-C	5.11	1.58	1.52
7	I	19	ASP	C-O	5.11	1.30	1.23
1	A	353	ILE	N-CA	-5.11	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	825	ILE	CA-C	-5.11	1.45	1.52
1	A	1209	MET	CA-CB	-5.11	1.45	1.53
2	B	279	ASP	CA-CB	5.11	1.61	1.53
2	B	382	ILE	CA-CB	-5.11	1.47	1.54
2	B	831	SER	C-N	5.11	1.40	1.33
2	B	1097	HIS	C-O	-5.11	1.17	1.24
4	E	161	LYS	N-CA	-5.11	1.40	1.46
8	J	38	ARG	CD-NE	-5.11	1.39	1.46
1	A	135	PHE	CA-C	-5.10	1.46	1.52
2	B	1156	ASP	CG-OD1	5.10	1.35	1.25
3	C	101	LEU	CA-CB	-5.10	1.45	1.53
1	A	516	SER	C-N	-5.10	1.26	1.33
1	A	923	LEU	CG-CD2	-5.10	1.35	1.52
2	B	398	ARG	C-N	-5.10	1.26	1.33
2	B	1091	TYR	C-O	-5.10	1.17	1.24
1	A	154	SER	C-O	5.10	1.30	1.23
1	A	493	GLN	C-N	-5.10	1.26	1.33
1	A	88	LYS	CA-C	5.10	1.59	1.52
1	A	151	ASP	N-CA	-5.10	1.39	1.46
1	A	577	ILE	C-N	5.10	1.40	1.33
1	A	710	LEU	CG-CD2	5.10	1.69	1.52
2	B	1133	MET	CA-C	-5.10	1.45	1.52
2	B	1160	VAL	C-O	-5.10	1.18	1.24
3	C	148	ARG	CD-NE	5.10	1.53	1.46
9	K	109	TRP	CZ2-CH2	5.10	1.47	1.37
1	A	264	PHE	CE2-CZ	5.10	1.53	1.38
1	A	999	VAL	CA-C	5.10	1.57	1.52
2	B	446	LEU	C-O	5.10	1.33	1.23
9	K	99	GLY	CA-C	5.10	1.59	1.51
1	A	9	ALA	CA-C	-5.10	1.47	1.52
1	A	1059	HIS	CB-CG	-5.10	1.43	1.50
2	B	510	LYS	CA-CB	5.10	1.59	1.53
1	A	79	GLY	CA-C	5.09	1.59	1.51
1	A	92	HIS	C-N	-5.09	1.27	1.33
1	A	917	SER	C-N	-5.09	1.26	1.33
1	A	968	GLN	N-CA	5.09	1.52	1.46
1	A	971	PHE	CD2-CE2	-5.09	1.23	1.38
8	J	34	THR	C-O	-5.09	1.17	1.24
1	A	1324	PRO	C-O	5.09	1.31	1.24
2	B	638	PHE	CG-CD2	-5.09	1.28	1.38
9	K	51	LEU	CG-CD2	5.09	1.69	1.52
1	A	813	PHE	CE2-CZ	-5.09	1.23	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	479	VAL	N-CA	-5.09	1.39	1.46
2	B	1199	ALA	CA-CB	5.09	1.62	1.53
6	H	82	PRO	C-N	5.09	1.40	1.33
9	K	35	PHE	CE1-CZ	-5.09	1.23	1.38
1	A	15	LYS	CE-NZ	5.09	1.64	1.49
1	A	135	PHE	CD1-CE1	-5.09	1.23	1.38
1	A	266	LEU	CA-C	-5.09	1.45	1.52
1	A	1311	VAL	C-N	5.09	1.42	1.33
2	B	254	LEU	C-O	5.09	1.30	1.24
2	B	282	ILE	C-N	-5.09	1.27	1.33
7	I	32	CYS	CA-C	5.09	1.60	1.53
1	A	239	LEU	CA-CB	-5.09	1.41	1.54
1	A	141	LEU	CA-C	5.09	1.59	1.52
1	A	621	THR	CA-CB	-5.09	1.45	1.53
1	A	769	SER	CA-C	5.09	1.59	1.52
2	B	431	TYR	C-O	5.09	1.31	1.23
3	C	85	ASP	CG-OD1	5.09	1.35	1.25
4	E	40	GLU	CB-CG	5.09	1.67	1.52
8	J	9	SER	CB-OG	5.09	1.52	1.42
6	H	78	SER	C-O	-5.08	1.17	1.24
7	I	70	ARG	CA-C	-5.08	1.46	1.52
1	A	695	LYS	CA-C	-5.08	1.46	1.52
2	B	28	GLU	CA-C	-5.08	1.45	1.52
2	B	446	LEU	CG-CD1	5.08	1.69	1.52
4	E	25	ASP	CA-C	-5.08	1.45	1.52
5	F	106	PRO	C-N	-5.08	1.26	1.33
9	K	72	LYS	CE-NZ	5.08	1.64	1.49
1	A	289	ILE	C-O	-5.08	1.18	1.24
1	A	1210	GLY	CA-C	5.08	1.59	1.51
1	A	1255	GLU	C-N	5.08	1.42	1.33
3	C	54	ASN	CA-C	5.08	1.58	1.52
4	E	13	TRP	CD2-CE3	5.08	1.48	1.40
5	F	102	SER	C-N	5.08	1.40	1.33
6	H	3	ASN	CG-OD1	5.08	1.33	1.23
7	I	59	VAL	CB-CG2	-5.08	1.35	1.52
9	K	27	ALA	C-N	-5.08	1.27	1.33
9	K	113	THR	CA-C	5.08	1.58	1.52
2	B	642	ASP	CA-C	-5.08	1.46	1.52
2	B	1217	TYR	CG-CD2	5.08	1.50	1.39
7	I	44	TYR	CZ-OH	5.08	1.48	1.38
1	A	388	LEU	C-N	-5.08	1.27	1.33
2	B	311	LEU	CA-C	5.08	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1204	PHE	CG-CD1	-5.08	1.28	1.38
1	A	808	LEU	N-CA	-5.08	1.40	1.45
2	B	1002	THR	C-N	-5.08	1.27	1.33
2	B	1037	LEU	CA-C	-5.08	1.46	1.52
6	H	93	TYR	CE1-CZ	5.08	1.50	1.38
7	I	28	GLU	CG-CD	5.08	1.64	1.52
1	A	136	ALA	N-CA	-5.07	1.39	1.46
1	A	1001	ARG	CB-CG	5.07	1.67	1.52
1	A	1191	TRP	CE3-CZ3	5.07	1.53	1.38
2	B	94	LYS	CG-CD	5.07	1.67	1.52
3	C	51	VAL	CB-CG2	-5.07	1.35	1.52
3	C	138	GLU	CG-CD	5.07	1.64	1.52
1	A	28	ARG	CZ-NH2	5.07	1.40	1.33
1	A	902	LEU	C-N	-5.07	1.26	1.33
3	C	46	ILE	CB-CG2	-5.07	1.35	1.52
1	A	222	LEU	C-O	5.07	1.30	1.24
1	A	247	ARG	N-CA	5.07	1.53	1.46
1	A	481	ASP	CG-OD1	5.07	1.34	1.25
1	A	633	VAL	C-O	-5.07	1.18	1.24
3	C	219	PHE	CG-CD2	-5.07	1.28	1.38
1	A	177	ASP	C-N	5.07	1.41	1.33
2	B	222	ILE	CA-CB	5.07	1.61	1.54
1	A	1049	ILE	CA-C	5.07	1.59	1.52
2	B	812	LEU	CA-C	-5.07	1.45	1.52
3	C	134	ILE	CA-CB	-5.07	1.47	1.54
4	E	85	GLU	CD-OE2	5.07	1.34	1.25
1	A	417	TYR	CA-CB	5.07	1.62	1.53
1	A	1366	ARG	N-CA	-5.07	1.39	1.46
1	A	1426	GLU	C-N	-5.07	1.26	1.33
2	B	67	SER	CA-CB	5.07	1.61	1.53
3	C	75	MET	C-O	-5.07	1.17	1.24
1	A	692	ASP	C-N	-5.06	1.27	1.33
2	B	305	VAL	CA-CB	-5.06	1.48	1.54
4	E	80	VAL	CA-C	-5.06	1.47	1.52
1	A	178	GLY	CA-C	-5.06	1.44	1.51
2	B	227	LYS	CA-CB	-5.06	1.45	1.53
3	C	102	GLN	CA-C	-5.06	1.46	1.52
6	H	93	TYR	N-CA	5.06	1.52	1.45
9	K	92	ASN	CG-ND2	-5.06	1.22	1.33
1	A	402	ALA	CA-CB	-5.06	1.45	1.53
8	J	47	ARG	N-CA	-5.06	1.40	1.46
1	A	1078	GLN	CA-C	5.06	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1322	ILE	CA-CB	5.06	1.64	1.55
2	B	89	GLU	CA-CB	5.06	1.63	1.53
3	C	176	ILE	C-O	-5.06	1.18	1.24
9	K	41	THR	C-N	-5.06	1.27	1.33
1	A	147	VAL	C-O	-5.06	1.19	1.24
1	A	467	THR	N-CA	-5.06	1.39	1.45
4	E	92	THR	C-O	5.06	1.30	1.24
2	B	978	ASP	CB-CG	5.06	1.64	1.52
1	A	705	LYS	N-CA	5.05	1.53	1.46
1	A	1153	TYR	CD2-CE2	-5.05	1.23	1.38
2	B	1106	ARG	CD-NE	5.05	1.53	1.46
3	C	131	HIS	N-CA	-5.05	1.38	1.46
9	K	92	ASN	C-O	-5.05	1.18	1.24
1	A	273	ASN	N-CA	-5.05	1.39	1.46
1	A	372	LYS	CB-CG	5.05	1.67	1.52
1	A	1276	VAL	CB-CG1	-5.05	1.35	1.52
2	B	1192	TYR	CA-C	-5.05	1.46	1.52
3	C	241	ASP	CG-OD2	5.05	1.34	1.25
8	J	17	LYS	CA-C	5.05	1.59	1.52
2	B	211	VAL	C-O	5.05	1.29	1.24
3	C	87	PHE	CD1-CE1	5.05	1.53	1.38
8	J	56	LEU	C-N	-5.05	1.27	1.34
10	L	57	LEU	C-N	-5.05	1.26	1.33
1	A	83	HIS	N-CA	5.05	1.52	1.46
1	A	206	GLU	N-CA	5.05	1.52	1.46
1	A	1042	PHE	CB-CG	-5.05	1.39	1.50
2	B	295	GLY	C-O	5.05	1.29	1.23
2	B	649	LYS	N-CA	5.05	1.52	1.46
5	F	129	LYS	C-O	-5.05	1.17	1.23
1	A	558	GLY	N-CA	5.05	1.52	1.45
1	A	607	ILE	CB-CG2	-5.05	1.35	1.52
1	A	1234	GLU	CD-OE2	5.05	1.34	1.25
4	E	65	THR	C-N	5.05	1.40	1.33
5	F	109	VAL	CA-CB	5.05	1.61	1.54
1	A	410	GLY	C-N	5.05	1.40	1.33
1	A	447	GLN	CA-CB	-5.05	1.44	1.52
1	A	495	GLU	C-N	-5.05	1.27	1.33
1	A	836	TYR	C-O	5.05	1.29	1.24
1	A	975	HIS	CD2-NE2	5.05	1.43	1.37
8	J	41	LEU	N-CA	5.05	1.53	1.46
10	L	57	LEU	CB-CG	-5.05	1.43	1.53
1	A	223	GLY	N-CA	5.04	1.52	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1224	PHE	CE2-CZ	5.04	1.53	1.38
4	E	211	TYR	CG-CD1	-5.04	1.28	1.39
2	B	424	LEU	CG-CD2	-5.04	1.35	1.52
3	C	13	ALA	C-O	-5.04	1.17	1.23
6	H	18	GLY	C-O	-5.04	1.17	1.23
5	F	146	TRP	CD2-CE3	-5.04	1.32	1.40
1	A	1025	ARG	CA-CB	-5.04	1.45	1.53
1	A	1417	GLU	N-CA	5.04	1.52	1.46
2	B	178	ASN	CG-OD1	5.04	1.33	1.23
2	B	259	TYR	CG-CD1	-5.04	1.28	1.39
2	B	465	ASN	CA-CB	5.04	1.59	1.53
2	B	620	ARG	C-N	-5.04	1.25	1.33
2	B	1090	THR	CB-CG2	-5.04	1.35	1.52
6	H	39	THR	CB-OG1	5.04	1.51	1.43
1	A	83	HIS	CA-C	5.04	1.58	1.52
2	B	298	LEU	CG-CD1	5.04	1.69	1.52
2	B	326	ASP	CG-OD2	5.04	1.34	1.25
2	B	597	MET	CG-SD	-5.04	1.68	1.80
4	E	65	THR	CB-OG1	5.04	1.51	1.43
5	F	128	LYS	C-N	-5.04	1.26	1.33
1	A	598	LEU	CA-C	5.03	1.59	1.52
1	A	1028	THR	CA-C	-5.03	1.46	1.52
2	B	599	THR	CB-OG1	5.03	1.51	1.43
2	B	989	THR	CB-OG1	-5.03	1.35	1.43
7	I	20	LYS	CG-CD	5.03	1.67	1.52
3	C	76	ASP	CB-CG	5.03	1.64	1.52
4	E	16	PHE	N-CA	-5.03	1.39	1.46
2	B	1033	LYS	CD-CE	5.03	1.67	1.52
2	B	1224	PHE	CD2-CE2	5.03	1.53	1.38
3	C	212	PRO	CA-C	-5.03	1.47	1.52
4	E	84	ASP	CG-OD1	5.03	1.34	1.25
6	H	77	ARG	N-CA	5.03	1.52	1.46
7	I	23	ASN	CG-OD1	-5.03	1.14	1.23
1	A	294	SER	CA-C	5.03	1.59	1.52
1	A	408	ASP	CB-CG	-5.03	1.39	1.52
1	A	645	LEU	CG-CD1	-5.03	1.35	1.52
2	B	203	PHE	CG-CD1	-5.03	1.28	1.38
4	E	100	ILE	C-O	5.03	1.29	1.24
1	A	515	GLN	CD-NE2	5.03	1.43	1.33
1	A	639	PRO	N-CA	-5.03	1.40	1.47
1	A	738	LYS	N-CA	5.03	1.51	1.45
1	A	1129	GLU	C-O	5.03	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1152	ILE	N-CA	-5.03	1.39	1.46
3	C	225	ALA	N-CA	-5.03	1.40	1.46
1	A	382	PRO	N-CD	5.03	1.54	1.47
1	A	1204	ASP	CG-OD2	5.03	1.34	1.25
1	A	1206	ASP	CG-OD1	5.03	1.34	1.25
2	B	109	THR	N-CA	5.03	1.52	1.46
2	B	620	ARG	N-CA	-5.03	1.39	1.46
2	B	890	TYR	CA-C	5.03	1.59	1.52
2	B	1031	LEU	CA-C	-5.03	1.45	1.52
4	E	16	PHE	CD2-CE2	5.03	1.53	1.38
1	A	902	LEU	CG-CD1	5.02	1.69	1.52
2	B	486	TYR	CE1-CZ	5.02	1.50	1.38
8	J	26	GLN	C-O	5.02	1.31	1.23
1	A	465	TYR	C-O	-5.02	1.17	1.24
1	A	674	PRO	C-O	5.02	1.30	1.24
3	C	183	TRP	CD2-CE2	5.02	1.49	1.41
1	A	728	LYS	CE-NZ	5.02	1.64	1.49
1	A	1112	LYS	CD-CE	5.02	1.67	1.52
2	B	418	LYS	C-N	5.02	1.40	1.33
2	B	427	ASP	N-CA	5.02	1.52	1.46
2	B	1020	ARG	C-O	5.02	1.31	1.24
3	C	71	PRO	CA-C	-5.02	1.46	1.52
10	L	43	THR	N-CA	5.02	1.54	1.46
1	A	219	PHE	CE1-CZ	-5.02	1.23	1.38
1	A	1447	GLU	CG-CD	5.02	1.64	1.52
2	B	39	ARG	CD-NE	5.02	1.53	1.46
2	B	358	LYS	CB-CG	5.02	1.67	1.52
4	E	192	ARG	CB-CG	5.02	1.67	1.52
6	H	116	TYR	CA-C	5.02	1.59	1.52
1	A	282	ASN	C-N	5.01	1.39	1.33
1	A	873	MET	SD-CE	-5.01	1.67	1.79
2	B	460	ALA	CA-CB	5.01	1.61	1.53
2	B	756	ILE	CB-CG2	-5.01	1.36	1.52
9	K	27	ALA	N-CA	5.01	1.51	1.46
1	A	76	GLU	CA-C	5.01	1.59	1.52
2	B	99	LYS	N-CA	5.01	1.53	1.46
2	B	273	LEU	CB-CG	-5.01	1.43	1.53
4	E	9	ILE	C-O	-5.01	1.17	1.24
6	H	34	ASP	CG-OD2	5.01	1.34	1.25
1	A	744	LYS	CA-CB	-5.01	1.45	1.53
2	B	416	LEU	C-O	-5.01	1.18	1.23
3	C	31	ASN	CG-OD1	5.01	1.33	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	J	58	GLU	CG-CD	5.01	1.64	1.52
1	A	1117	THR	CB-CG2	-5.01	1.36	1.52
2	B	594	ALA	N-CA	5.01	1.52	1.46
1	A	607	ILE	CA-C	-5.01	1.46	1.52
1	A	1230	GLU	CG-CD	5.01	1.64	1.52
2	B	653	VAL	CB-CG2	-5.01	1.36	1.52
3	C	123	ASN	CB-CG	5.01	1.64	1.52
5	F	84	TYR	CA-C	-5.01	1.46	1.52
5	F	106	PRO	N-CA	-5.01	1.41	1.47
1	A	125	ALA	CA-C	5.00	1.59	1.52
1	A	230	ARG	CZ-NH2	5.00	1.40	1.33
1	A	1349	TYR	CB-CG	-5.00	1.40	1.51
3	C	60	ASP	CB-CG	-5.00	1.39	1.52
3	C	87	PHE	CG-CD2	-5.00	1.28	1.38
1	A	108	MET	CA-C	5.00	1.61	1.52
1	A	157	ASP	C-O	-5.00	1.17	1.24
1	A	552	TRP	CA-C	5.00	1.59	1.52
1	A	908	LEU	CB-CG	-5.00	1.43	1.53
1	A	1081	LEU	CG-CD2	5.00	1.69	1.52
2	B	1086	PHE	CA-CB	5.00	1.60	1.53
3	C	73	GLN	C-N	-5.00	1.25	1.34
4	E	38	PRO	CG-CD	5.00	1.67	1.50
7	I	80	SER	N-CA	5.00	1.52	1.46
1	A	594	GLY	C-O	-5.00	1.17	1.23
1	A	708	MET	C-N	-5.00	1.26	1.33
1	A	1353	TYR	CB-CG	-5.00	1.40	1.51
2	B	781	PHE	CB-CG	-5.00	1.39	1.50
4	E	46	TYR	CG-CD2	5.00	1.49	1.39
7	I	15	TYR	CA-C	5.00	1.57	1.52

All (5142) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	61	ILE	N-CA-C	-21.85	86.24	110.05
1	A	774	ARG	NE-CZ-NH1	21.33	142.83	121.50
1	A	466	SER	N-CA-C	19.18	134.25	112.57
3	C	240	VAL	N-CA-C	19.18	128.45	110.42
2	B	995	ARG	NE-CZ-NH2	-18.87	102.22	119.20
1	A	399	HIS	CA-C-N	18.60	143.09	119.84
1	A	399	HIS	C-N-CA	18.60	143.09	119.84
2	B	653	VAL	CB-CA-C	-18.33	90.92	111.45
2	B	1020	ARG	N-CA-C	18.25	134.91	113.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1019	SER	CB-CA-C	-17.67	78.37	110.70
7	I	93	LYS	N-CA-C	-17.11	92.63	111.28
3	C	183	TRP	CA-C-N	-16.75	100.34	122.79
3	C	183	TRP	C-N-CA	-16.75	100.34	122.79
2	B	1185	CYS	N-CA-C	-16.60	93.08	113.50
2	B	1097	HIS	CB-CG-ND1	-16.57	97.84	122.70
3	C	66	ARG	NE-CZ-NH1	-16.48	105.03	121.50
7	I	38	ALA	CA-C-N	16.48	138.23	119.94
7	I	38	ALA	C-N-CA	16.48	138.23	119.94
3	C	20	PHE	N-CA-C	16.25	129.63	108.34
6	H	106	GLU	N-CA-C	-16.19	93.58	113.01
2	B	642	ASP	N-CA-C	-16.18	79.35	107.99
2	B	316	PRO	N-CD-CG	-16.05	79.13	103.20
1	A	1289	ARG	NE-CZ-NH1	-16.02	105.48	121.50
6	H	57	VAL	N-CA-C	15.98	129.55	106.85
3	C	124	LEU	N-CA-C	15.97	132.04	112.87
5	F	81	THR	N-CA-CB	-15.86	88.50	110.38
1	A	394	ASN	N-CA-C	15.67	128.36	111.28
2	B	399	ASP	N-CA-C	15.53	132.02	112.92
1	A	673	GLY	CA-C-O	-15.47	109.28	119.65
3	C	233	GLU	CA-C-O	-15.43	102.92	120.66
4	E	66	GLU	N-CA-C	-15.38	94.59	111.36
2	B	209	GLU	N-CA-CB	-15.34	86.17	109.95
1	A	774	ARG	NE-CZ-NH2	-15.18	105.54	119.20
7	I	91	ARG	NE-CZ-NH1	15.17	136.67	121.50
1	A	93	VAL	CB-CA-C	-15.13	91.71	112.14
3	C	66	ARG	NE-CZ-NH2	15.08	132.77	119.20
2	B	709	ASP	N-CA-C	-15.06	94.85	113.38
3	C	163	ILE	CA-CB-CG2	14.98	135.97	110.50
2	B	753	ALA	N-CA-C	-14.96	95.08	113.18
1	A	821	ARG	NE-CZ-NH2	-14.92	105.77	119.20
1	A	283	GLY	N-CA-C	-14.91	93.26	112.65
4	E	176	PRO	CB-CA-C	-14.91	91.89	111.12
2	B	995	ARG	NE-CZ-NH1	14.87	136.37	121.50
1	A	170	THR	OG1-CB-CG2	-14.78	79.73	109.30
1	A	826	ASP	N-CA-C	-14.75	94.70	111.82
1	A	1366	ARG	NE-CZ-NH2	-14.71	105.96	119.20
2	B	501	PRO	CA-C-O	-14.61	104.38	121.03
8	J	21	TYR	N-CA-C	-14.59	92.17	112.45
1	A	469	ARG	NE-CZ-NH1	14.54	136.04	121.50
1	A	1259	MET	N-CA-C	-14.29	95.70	111.28
2	B	102	VAL	N-CA-C	14.27	128.68	108.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1242	VAL	N-CA-C	14.24	128.74	109.80
7	I	75	CYS	N-CA-C	14.16	127.49	109.93
2	B	418	LYS	CA-C-O	-14.14	106.34	120.90
9	K	49	GLU	CA-C-O	-14.12	106.16	120.70
1	A	1376	THR	N-CA-CB	-13.85	91.01	110.95
1	A	27	VAL	N-CA-C	13.84	126.40	110.62
1	A	949	ASP	N-CA-CB	-13.83	88.84	110.28
1	A	538	ASP	CB-CA-C	-13.73	87.16	110.09
4	E	63	ASN	N-CA-C	13.67	129.95	110.40
9	K	94	ILE	N-CA-C	-13.62	98.35	110.74
2	B	839	MET	CG-SD-CE	-13.59	70.99	100.90
1	A	789	LYS	N-CA-C	13.56	128.19	110.43
3	C	142	VAL	N-CA-C	13.52	126.73	108.89
2	B	412	LEU	N-CA-C	-13.48	96.07	111.03
8	J	49	MET	CG-SD-CE	-13.42	71.38	100.90
2	B	1054	GLY	CA-C-O	-13.39	105.57	120.30
1	A	372	LYS	N-CA-C	13.35	129.03	113.01
1	A	366	VAL	CA-C-O	13.33	127.78	119.51
1	A	514	PRO	N-CA-CB	-13.28	90.59	103.20
2	B	496	ARG	NE-CZ-NH2	-13.22	107.30	119.20
2	B	895	ASP	N-CA-C	-13.11	97.32	113.18
9	K	95	ILE	O-C-N	13.08	135.08	121.87
1	A	793	SER	N-CA-C	13.05	131.01	109.87
1	A	566	ILE	N-CA-C	13.04	123.02	111.81
1	A	1291	VAL	N-CA-CB	-12.97	97.76	111.64
7	I	30	ARG	N-CA-C	12.97	129.10	113.28
3	C	35	ARG	NE-CZ-NH1	12.94	134.44	121.50
1	A	504	LEU	N-CA-CB	-12.94	93.70	110.90
2	B	608	ASP	N-CA-C	-12.93	95.94	112.23
2	B	181	LEU	N-CA-C	-12.88	96.95	113.17
2	B	97	VAL	N-CA-C	-12.86	89.42	108.45
3	C	40	GLU	N-CA-C	12.86	128.28	112.59
2	B	620	ARG	NE-CZ-NH1	-12.86	108.64	121.50
2	B	1132	GLU	CA-C-O	-12.84	106.94	120.55
9	K	110	ASN	N-CA-C	-12.82	95.92	111.69
1	A	466	SER	CB-CA-C	-12.81	91.20	111.06
2	B	496	ARG	NE-CZ-NH1	12.77	134.27	121.50
7	I	31	THR	N-CA-CB	-12.76	90.90	110.42
2	B	772	ALA	N-CA-C	12.73	124.85	110.97
1	A	704	ALA	CA-C-O	-12.73	106.83	121.47
1	A	1072	ILE	N-CA-C	-12.71	100.88	111.81
4	E	66	GLU	N-CA-CB	12.71	128.97	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	202	PRO	CA-C-O	-12.70	107.64	121.23
1	A	182	VAL	CA-C-N	-12.69	111.17	122.47
1	A	182	VAL	C-N-CA	-12.69	111.17	122.47
3	C	18	VAL	CB-CA-C	-12.69	90.47	111.29
1	A	985	ASP	N-CA-C	-12.68	97.50	111.07
1	A	1004	ASN	N-CA-C	12.68	126.01	110.41
4	E	192	ARG	NE-CZ-NH2	12.67	130.60	119.20
10	L	57	LEU	N-CA-C	12.65	128.78	108.41
1	A	717	ASN	N-CA-C	12.64	125.06	111.28
1	A	725	ALA	N-CA-C	12.63	124.58	111.07
9	K	47	ARG	NE-CZ-NH2	-12.62	107.84	119.20
9	K	88	LYS	N-CA-C	-12.61	96.18	111.69
4	E	212	ARG	CD-NE-CZ	12.56	141.98	124.40
2	B	598	GLU	N-CA-CB	12.52	128.68	110.16
2	B	100	PRO	N-CD-CG	-12.51	84.44	103.20
1	A	974	ASP	N-CA-CB	12.50	131.17	110.17
2	B	1160	VAL	CB-CA-C	-12.47	90.83	111.29
2	B	852	ARG	N-CA-CB	-12.47	91.34	110.29
2	B	787	VAL	N-CA-CB	-12.40	97.58	112.33
1	A	709	THR	N-CA-CB	-12.39	89.55	110.49
1	A	916	GLY	N-CA-C	12.39	130.03	114.66
1	A	782	ARG	CA-C-O	-12.38	107.28	120.89
1	A	1176	LEU	N-CA-C	-12.36	76.39	111.00
1	A	922	ASP	N-CA-C	12.35	126.94	109.15
2	B	807	ARG	NE-CZ-NH2	-12.35	108.09	119.20
1	A	982	THR	N-CA-CB	-12.34	91.31	110.56
2	B	1007	VAL	N-CA-CB	-12.32	101.20	111.67
1	A	522	GLY	CA-C-O	-12.32	108.68	121.61
2	B	983	ARG	NE-CZ-NH2	-12.32	108.12	119.20
7	I	91	ARG	NE-CZ-NH2	-12.28	108.15	119.20
1	A	1202	MET	CG-SD-CE	12.28	127.91	100.90
2	B	1099	VAL	CB-CA-C	-12.28	91.16	111.29
1	A	50	ILE	N-CA-C	12.27	125.35	108.17
3	C	155	LEU	CB-CA-C	-12.26	85.41	109.68
2	B	1085	ILE	N-CA-CB	-12.25	94.59	111.25
1	A	704	ALA	CA-C-N	-12.22	103.32	123.37
1	A	704	ALA	C-N-CA	-12.22	103.32	123.37
2	B	1042	GLY	CA-C-O	-12.19	110.30	120.91
2	B	268	THR	N-CA-CB	-12.18	92.78	111.05
6	H	120	GLY	N-CA-C	12.15	131.01	115.21
2	B	267	ARG	O-C-N	-12.14	107.66	122.96
6	H	77	ARG	NE-CZ-NH1	12.14	133.64	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	680	THR	N-CA-CB	-12.11	92.17	111.43
2	B	329	THR	OG1-CB-CG2	-12.08	85.15	109.30
2	B	372	SER	CA-C-O	12.05	134.25	119.31
1	A	379	VAL	CA-C-O	-12.04	107.10	120.71
2	B	591	ARG	NE-CZ-NH1	12.04	133.54	121.50
1	A	393	ARG	CA-C-O	-12.03	107.67	120.42
2	B	416	LEU	CB-CA-C	-12.03	92.27	111.39
1	A	382	PRO	N-CA-C	-12.02	99.78	114.20
1	A	1368	MET	N-CA-C	-11.99	98.75	113.50
1	A	589	GLN	CA-C-O	-11.98	107.42	121.44
1	A	821	ARG	CG-CD-NE	-11.96	85.69	112.00
2	B	547	VAL	N-CA-CB	-11.96	96.84	112.26
8	J	3	VAL	CB-CA-C	-11.93	89.65	111.36
2	B	1077	THR	N-CA-CB	-11.93	94.42	110.88
10	L	35	SER	N-CA-C	11.91	127.48	112.24
8	J	38	ARG	N-CA-C	-11.89	95.93	112.45
3	C	68	GLY	N-CA-C	-11.88	99.93	114.66
1	A	586	ILE	O-C-N	11.87	135.88	123.07
2	B	1135	ARG	NE-CZ-NH2	-11.85	108.53	119.20
2	B	531	GLN	N-CA-C	-11.84	98.20	112.89
2	B	848	ARG	N-CA-CB	-11.84	93.30	110.47
1	A	50	ILE	CB-CA-C	-11.83	93.21	110.83
2	B	781	PHE	N-CA-C	11.80	125.28	111.71
2	B	791	THR	OG1-CB-CG2	-11.80	85.71	109.30
3	C	150	GLY	CA-C-O	11.80	132.06	118.97
1	A	948	VAL	CA-C-N	11.78	138.22	120.31
1	A	948	VAL	C-N-CA	11.78	138.22	120.31
8	J	51	LEU	N-CA-C	11.78	126.91	112.54
1	A	434	ARG	NE-CZ-NH2	-11.78	108.60	119.20
2	B	1097	HIS	CA-CB-CG	-11.78	102.02	113.80
1	A	182	VAL	N-CA-C	11.77	125.43	108.48
1	A	1055	ARG	CG-CD-NE	-11.77	86.11	112.00
2	B	21	GLU	N-CA-C	-11.76	98.95	113.18
2	B	365	THR	N-CA-C	-11.75	90.55	108.99
1	A	1329	THR	OG1-CB-CG2	-11.72	85.87	109.30
8	J	2	ILE	CG1-CB-CG2	-11.72	75.55	110.70
1	A	464	PRO	O-C-N	-11.71	106.83	122.64
1	A	778	GLY	N-CA-C	11.67	129.01	113.37
5	F	140	ASP	N-CA-C	11.67	126.63	113.21
4	E	98	ILE	N-CA-C	-11.66	99.51	110.82
6	H	26	ILE	CB-CA-C	-11.63	96.02	111.15
9	K	96	ASN	N-CA-CB	11.62	127.33	110.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	113	GLN	N-CA-CB	11.61	127.42	110.47
1	A	605	MET	CG-SD-CE	-11.60	75.39	100.90
1	A	295	LEU	N-CA-C	-11.58	97.45	111.69
2	B	680	THR	OG1-CB-CG2	-11.55	86.19	109.30
2	B	607	GLY	O-C-N	-11.55	108.81	122.33
9	K	4	PRO	CA-C-O	-11.55	107.77	121.98
2	B	604	ARG	NE-CZ-NH2	-11.54	108.81	119.20
4	E	181	ALA	N-CA-C	11.52	125.83	112.93
1	A	93	VAL	N-CA-C	11.51	122.36	110.62
2	B	53	GLN	CB-CG-CD	-11.50	93.05	112.60
2	B	289	LEU	CA-C-N	-11.50	103.39	122.25
2	B	289	LEU	C-N-CA	-11.50	103.39	122.25
2	B	657	HIS	N-CA-C	-11.48	98.50	111.82
10	L	40	LEU	CA-C-O	-11.47	108.75	121.25
1	A	823	GLY	N-CA-C	11.43	128.68	113.37
1	A	163	SER	N-CA-CB	11.40	128.99	110.41
2	B	498	THR	N-CA-CB	-11.37	91.91	111.69
8	J	22	LEU	N-CA-CB	-11.37	93.31	110.13
1	A	586	ILE	N-CA-C	-11.36	91.58	108.17
4	E	80	VAL	CB-CA-C	-11.36	92.69	110.52
2	B	1021	MET	N-CA-CB	-11.33	94.93	111.70
2	B	165	VAL	CB-CA-C	-11.33	92.72	111.29
2	B	66	ASP	CA-C-N	11.31	135.14	120.44
2	B	66	ASP	C-N-CA	11.31	135.14	120.44
1	A	119	ASN	N-CA-C	11.27	128.11	112.45
1	A	930	ASP	N-CA-C	-11.26	97.84	111.69
2	B	591	ARG	NE-CZ-NH2	-11.25	109.07	119.20
1	A	1106	ASN	N-CA-C	11.23	126.48	113.01
2	B	788	ARG	CA-C-N	-11.23	105.63	122.47
2	B	788	ARG	C-N-CA	-11.23	105.63	122.47
3	C	35	ARG	NE-CZ-NH2	-11.22	109.10	119.20
1	A	806	ARG	NE-CZ-NH1	-11.21	110.30	121.50
2	B	745	PRO	CA-C-O	-11.19	103.18	119.18
4	E	193	GLY	N-CA-C	-11.19	100.67	115.21
2	B	41	LYS	N-CA-C	-11.18	99.66	113.97
1	A	1384	VAL	N-CA-C	11.17	122.28	111.67
1	A	446	ARG	NE-CZ-NH2	-11.15	109.17	119.20
2	B	786	ASN	N-CA-C	11.14	126.82	112.34
2	B	1213	THR	CB-CA-C	-11.13	97.28	110.08
1	A	1218	GLN	N-CA-C	-11.13	99.70	113.38
4	E	5	ASN	N-CA-C	-11.11	99.84	113.50
3	C	11	ARG	CB-CA-C	-11.09	91.09	109.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	46	GLN	CA-CB-CG	-11.08	91.95	114.10
1	A	610	GLY	O-C-N	11.06	132.64	122.57
3	C	229	TYR	N-CA-C	11.06	127.77	108.52
3	C	253	LYS	N-CA-C	11.06	124.43	111.71
1	A	213	HIS	N-CA-C	11.03	126.32	113.19
1	A	883	LEU	N-CA-C	-11.01	90.58	108.52
2	B	981	ALA	N-CA-C	11.01	126.15	108.76
4	E	168	TYR	CA-C-O	11.00	132.57	119.59
1	A	1296	GLY	N-CA-C	11.00	126.66	113.79
4	E	17	ARG	CA-C-O	10.99	132.66	120.90
2	B	655	LYS	CA-C-O	10.96	132.49	120.10
1	A	912	LEU	N-CA-CB	10.95	127.08	110.22
2	B	533	CYS	CA-C-N	-10.94	110.43	123.44
2	B	533	CYS	C-N-CA	-10.94	110.43	123.44
7	I	37	GLU	N-CA-C	-10.94	94.73	110.59
1	A	864	ILE	N-CA-C	-10.93	103.05	111.90
1	A	1062	GLU	CB-CG-CD	10.92	131.17	112.60
2	B	1075	GLY	N-CA-C	10.92	127.79	113.27
5	F	143	PHE	N-CA-C	10.91	125.71	109.24
10	L	58	LYS	N-CA-C	10.90	134.02	110.80
2	B	463	THR	N-CA-C	10.89	125.08	111.69
7	I	53	GLY	N-CA-C	10.88	130.60	115.27
2	B	137	TYR	CA-CB-CG	10.87	133.47	113.90
1	A	982	THR	CB-CA-C	-10.85	91.90	109.80
7	I	80	SER	N-CA-C	10.84	126.24	110.42
2	B	284	ILE	N-CA-C	-10.82	100.36	110.53
7	I	68	LEU	CA-C-O	-10.81	110.14	120.19
1	A	731	ARG	NE-CZ-NH1	-10.78	110.72	121.50
2	B	525	ALA	N-CA-C	10.78	126.59	113.12
2	B	855	PHE	CA-C-O	-10.77	108.73	120.36
10	L	28	LYS	O-C-N	-10.77	108.27	122.59
2	B	1197	PRO	CA-C-O	10.76	133.49	121.43
1	A	492	PRO	CA-C-O	-10.76	108.55	121.67
1	A	1336	MET	CG-SD-CE	10.75	124.56	100.90
2	B	1166	CYS	N-CA-CB	-10.75	95.55	111.25
1	A	1136	SER	N-CA-C	-10.74	99.91	113.23
2	B	1062	HIS	N-CA-C	10.74	125.57	113.21
1	A	416	ARG	NE-CZ-NH1	10.73	132.23	121.50
2	B	416	LEU	CA-C-O	-10.71	109.64	120.89
2	B	1097	HIS	CB-CG-CD2	10.72	145.13	131.20
9	K	103	THR	CA-C-O	-10.71	109.64	120.89
1	A	1267	MET	CG-SD-CE	-10.69	77.38	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	498	ARG	CD-NE-CZ	-10.67	109.46	124.40
4	E	80	VAL	CA-C-O	-10.67	111.19	121.64
2	B	604	ARG	NE-CZ-NH1	10.66	132.16	121.50
2	B	1077	THR	CA-C-O	10.66	130.63	118.90
3	C	204	SER	N-CA-CB	-10.65	94.84	110.17
1	A	1215	ARG	N-CA-CB	10.63	125.70	110.07
4	E	77	SER	N-CA-C	-10.63	94.09	109.18
2	B	368	GLU	N-CA-C	10.62	122.61	111.14
7	I	118	ARG	N-CA-C	10.61	126.34	110.64
1	A	1016	THR	N-CA-C	10.60	122.84	111.28
1	A	964	ILE	N-CA-C	-10.60	100.57	110.53
2	B	869	SER	CA-C-N	10.58	131.60	121.65
2	B	869	SER	C-N-CA	10.58	131.60	121.65
3	C	14	SER	N-CA-C	-10.57	93.16	108.60
7	I	59	VAL	O-C-N	-10.57	111.67	122.97
1	A	1021	LEU	CA-C-O	10.56	131.61	120.42
6	H	96	VAL	N-CA-CB	-10.55	96.37	111.99
7	I	31	THR	CA-C-N	10.55	141.31	122.64
7	I	31	THR	C-N-CA	10.55	141.31	122.64
1	A	948	VAL	N-CA-CB	-10.54	93.83	111.23
2	B	983	ARG	NE-CZ-NH1	10.51	132.00	121.50
5	F	94	LEU	CA-C-N	-10.51	107.10	120.34
5	F	94	LEU	C-N-CA	-10.51	107.10	120.34
2	B	882	THR	N-CA-C	10.50	126.59	114.62
2	B	530	GLY	N-CA-C	10.49	128.79	110.95
1	A	1366	ARG	CD-NE-CZ	10.48	139.07	124.40
1	A	548	ASN	N-CA-C	-10.46	99.69	111.82
1	A	1284	MET	CA-CB-CG	-10.44	93.21	114.10
1	A	459	ARG	NE-CZ-NH2	-10.44	109.80	119.20
4	E	205	SER	CA-C-O	-10.43	107.24	119.03
1	A	630	ILE	N-CA-C	-10.43	97.47	111.44
2	B	280	ILE	CA-C-O	10.42	126.46	119.38
9	K	75	ILE	CA-C-O	10.41	131.40	120.36
1	A	962	ARG	N-CA-C	-10.40	97.99	112.45
7	I	6	PHE	CA-C-N	10.40	135.56	120.90
7	I	6	PHE	C-N-CA	10.40	135.56	120.90
3	C	39	ALA	N-CA-C	10.39	126.66	113.88
7	I	43	VAL	N-CA-CB	-10.39	94.00	111.98
8	J	26	GLN	N-CA-C	-10.39	100.46	113.55
1	A	986	ILE	N-CA-C	10.37	120.17	110.42
6	H	77	ARG	NH1-CZ-NH2	-10.37	105.82	119.30
4	E	162	ARG	CB-CG-CD	10.36	135.12	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	608	ILE	CA-CB-CG1	10.35	128.00	110.40
2	B	995	ARG	CD-NE-CZ	10.32	138.85	124.40
1	A	728	LYS	CD-CE-NZ	10.32	144.92	111.90
1	A	434	ARG	NE-CZ-NH1	10.31	131.81	121.50
1	A	1318	THR	N-CA-CB	-10.31	94.27	110.46
2	B	166	PHE	CA-C-O	-10.31	110.32	121.56
9	K	77	THR	O-C-N	10.31	135.23	123.27
2	B	344	LYS	N-CA-C	10.31	124.37	110.35
1	A	1239	ARG	CB-CA-C	10.31	127.69	109.65
2	B	552	MET	CG-SD-CE	10.29	123.53	100.90
3	C	198	ALA	N-CA-C	10.29	123.75	111.82
1	A	1046	LEU	CA-C-O	10.28	131.93	119.79
2	B	104	GLU	N-CA-C	10.28	125.00	110.50
1	A	109	HIS	CA-C-N	10.27	134.41	120.44
1	A	109	HIS	C-N-CA	10.27	134.41	120.44
1	A	1422	ARG	NE-CZ-NH1	10.27	131.77	121.50
6	H	91	ASP	CA-C-O	10.27	131.29	120.30
1	A	1046	LEU	O-C-N	-10.26	108.58	122.33
4	E	14	ARG	CA-C-N	-10.26	104.72	120.31
4	E	14	ARG	C-N-CA	-10.26	104.72	120.31
8	J	5	VAL	N-CA-C	10.26	120.17	110.53
4	E	191	LYS	O-C-N	-10.25	110.24	123.16
1	A	1129	GLU	N-CA-C	-10.24	99.48	112.90
7	I	30	ARG	CG-CD-NE	-10.23	89.48	112.00
7	I	106	CYS	CA-CB-SG	10.23	137.94	114.40
1	A	982	THR	CA-CB-CG2	10.23	127.89	110.50
7	I	7	CYS	CA-CB-SG	10.23	137.94	114.40
1	A	607	ILE	CA-C-O	-10.22	109.70	120.64
2	B	484	ASN	CB-CA-C	-10.22	94.51	109.84
1	A	673	GLY	O-C-N	10.22	124.75	121.07
3	C	240	VAL	CB-CA-C	-10.21	98.69	111.87
2	B	593	PRO	N-CA-C	-10.21	100.57	113.84
3	C	252	GLN	N-CA-C	-10.21	100.23	111.36
2	B	297	ILE	CA-CB-CG1	10.20	127.74	110.40
2	B	616	ILE	CA-C-N	-10.20	108.14	122.93
2	B	616	ILE	C-N-CA	-10.20	108.14	122.93
1	A	107	CYS	N-CA-C	-10.19	92.62	109.24
1	A	294	SER	N-CA-C	10.20	123.65	111.82
2	B	484	ASN	N-CA-C	10.18	125.20	110.24
1	A	407	ARG	NE-CZ-NH2	-10.15	110.06	119.20
1	A	793	SER	N-CA-CB	-10.14	96.55	110.04
2	B	1085	ILE	O-C-N	-10.14	112.53	123.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	131	ASP	N-CA-C	-10.14	89.97	107.61
2	B	896	ASP	N-CA-C	-10.12	100.67	113.23
4	E	49	SER	N-CA-C	10.13	126.14	108.52
2	B	889	THR	CB-CA-C	-10.12	93.05	109.75
1	A	74	MET	CG-SD-CE	10.12	123.16	100.90
1	A	829	VAL	CA-C-O	-10.11	110.53	121.05
9	K	79	GLU	N-CA-C	-10.10	95.33	110.28
2	B	309	GLN	N-CA-C	10.10	121.87	111.07
1	A	645	LEU	O-C-N	-10.08	111.43	122.12
2	B	203	PHE	N-CA-CB	-10.08	95.68	110.70
9	K	79	GLU	CB-CA-C	10.08	126.88	109.65
2	B	24	PRO	N-CD-CG	-10.07	88.09	103.20
2	B	267	ARG	N-CA-C	10.07	124.40	109.59
2	B	482	VAL	CB-CA-C	-10.07	98.05	111.15
1	A	822	GLU	CA-C-N	-10.06	107.44	120.22
1	A	822	GLU	C-N-CA	-10.06	107.44	120.22
1	A	1265	ASN	O-C-N	-10.06	111.63	122.09
1	A	469	ARG	NE-CZ-NH2	-10.04	110.16	119.20
7	I	93	LYS	CA-C-O	-10.04	109.91	120.55
9	K	85	ASP	N-CA-C	-10.02	100.46	112.89
1	A	1321	GLY	CA-C-N	-10.02	111.55	122.27
1	A	1321	GLY	C-N-CA	-10.02	111.55	122.27
9	K	14	GLU	N-CA-C	-10.01	96.73	110.35
3	C	53	THR	OG1-CB-CG2	-10.01	89.28	109.30
6	H	17	PRO	CB-CA-C	10.01	120.93	109.92
3	C	142	VAL	CB-CA-C	-10.00	98.15	111.15
1	A	1137	ALA	CA-C-N	-9.99	112.96	122.66
1	A	1137	ALA	C-N-CA	-9.99	112.96	122.66
2	B	732	SER	CA-C-O	-9.99	110.96	121.55
3	C	55	THR	OG1-CB-CG2	-9.99	89.32	109.30
2	B	939	THR	N-CA-C	9.98	124.21	109.04
2	B	1019	SER	O-C-N	-9.97	109.27	122.23
1	A	585	GLY	O-C-N	9.95	133.52	122.47
2	B	486	TYR	N-CA-C	9.94	122.12	111.28
1	A	126	LEU	N-CA-C	-9.93	100.30	111.82
2	B	620	ARG	NH1-CZ-NH2	9.93	132.21	119.30
9	K	33	ILE	N-CA-CB	-9.93	96.85	110.56
1	A	840	ARG	CA-C-O	-9.93	108.07	119.79
2	B	1132	GLU	N-CA-C	-9.93	100.46	111.28
1	A	1012	ARG	CG-CD-NE	-9.92	90.18	112.00
1	A	738	LYS	CA-C-O	-9.91	109.57	121.66
2	B	384	ARG	N-CA-C	9.91	123.00	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	75	PRO	N-CA-C	9.90	126.59	111.14
2	B	1047	PHE	N-CA-C	9.89	125.70	111.56
6	H	81	PRO	CB-CA-C	9.88	122.98	110.92
1	A	987	VAL	CB-CA-C	-9.88	98.59	112.22
2	B	113	TYR	N-CA-CB	9.88	121.20	109.74
1	A	876	ALA	N-CA-C	9.86	125.12	112.89
4	E	137	GLU	N-CA-C	-9.86	100.61	111.36
1	A	514	PRO	CA-C-O	9.86	131.32	118.90
2	B	1185	CYS	CA-CB-SG	9.86	137.08	114.40
2	B	642	ASP	CB-CA-C	9.86	126.86	110.79
3	C	246	ARG	N-CA-CB	-9.86	95.00	110.28
1	A	566	ILE	CB-CA-C	-9.85	100.22	111.55
1	A	1114	PRO	CA-C-O	-9.85	109.49	121.31
1	A	1256	GLU	N-CA-C	9.85	126.59	113.20
1	A	264	PHE	N-CA-C	-9.84	99.15	111.75
2	B	352	ALA	N-CA-C	-9.84	99.58	111.69
1	A	1014	ALA	N-CA-C	9.84	123.02	111.71
1	A	980	ASP	N-CA-C	9.83	125.35	113.16
3	C	28	ALA	N-CA-C	9.82	123.01	111.71
1	A	829	VAL	CA-C-N	9.82	133.21	120.44
1	A	829	VAL	C-N-CA	9.82	133.21	120.44
1	A	946	VAL	CB-CA-C	-9.82	99.08	112.24
3	C	239	PRO	CA-C-O	9.82	135.11	122.15
1	A	1241	ARG	NE-CZ-NH2	-9.81	110.37	119.20
2	B	795	ILE	O-C-N	-9.81	112.61	123.20
7	I	107	SER	N-CA-C	9.81	124.79	112.24
8	J	11	GLY	CA-C-O	-9.80	109.50	119.20
4	E	180	ARG	NE-CZ-NH1	-9.80	111.70	121.50
1	A	1231	ASP	N-CA-C	9.79	123.17	111.82
2	B	223	VAL	CB-CA-C	-9.78	98.78	110.91
2	B	482	VAL	N-CA-C	9.78	121.79	108.89
2	B	904	ARG	N-CA-C	9.78	124.67	110.10
1	A	477	PRO	N-CD-CG	9.77	117.86	103.20
2	B	1054	GLY	O-C-N	9.77	132.93	122.28
9	K	14	GLU	CB-CA-C	9.77	127.10	109.62
9	K	78	THR	CB-CA-C	-9.76	92.36	109.64
2	B	291	ILE	N-CA-CB	-9.76	99.83	111.83
1	A	940	ARG	NE-CZ-NH2	-9.74	110.43	119.20
1	A	1023	ARG	NE-CZ-NH2	9.74	127.97	119.20
1	A	1357	ALA	N-CA-C	9.72	124.40	112.54
7	I	34	TYR	N-CA-C	9.72	124.58	110.10
1	A	557	ASP	CA-C-N	-9.72	102.37	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	557	ASP	C-N-CA	-9.72	102.37	121.41
8	J	43	ARG	NE-CZ-NH1	-9.72	111.78	121.50
1	A	352	VAL	CG1-CB-CG2	-9.71	89.44	110.80
1	A	184	SER	N-CA-C	9.71	123.70	107.20
10	L	68	GLU	CB-CG-CD	9.71	129.10	112.60
2	B	204	ILE	CA-CB-CG2	-9.71	94.00	110.50
1	A	842	VAL	O-C-N	-9.70	111.84	121.83
2	B	1203	LEU	CA-C-O	9.70	131.10	120.63
1	A	652	VAL	CG1-CB-CG2	-9.69	89.49	110.80
1	A	1146	VAL	N-CA-CB	-9.68	97.35	112.07
1	A	659	HIS	CB-CG-ND1	-9.68	108.18	122.70
2	B	612	GLU	CB-CG-CD	9.67	129.04	112.60
1	A	905	ASP	N-CA-C	9.67	121.90	111.36
2	B	431	TYR	CB-CA-C	-9.67	97.70	111.14
2	B	1076	HIS	N-CA-C	-9.67	100.04	112.23
2	B	848	ARG	N-CA-C	9.65	124.61	113.02
9	K	46	ILE	N-CA-C	-9.65	100.93	110.30
1	A	1006	ILE	CG1-CB-CG2	-9.65	81.74	110.70
1	A	1062	GLU	CB-CA-C	-9.64	91.79	109.54
2	B	915	THR	OG1-CB-CG2	-9.64	90.03	109.30
1	A	1275	GLY	O-C-N	9.63	132.50	123.35
4	E	79	TRP	CA-C-N	-9.63	109.93	123.03
4	E	79	TRP	C-N-CA	-9.63	109.93	123.03
7	I	29	CYS	CA-C-O	-9.62	109.92	121.28
4	E	207	ARG	CB-CG-CD	9.62	133.43	111.30
2	B	597	MET	CA-C-O	-9.62	110.35	120.55
7	I	110	PHE	CA-C-O	-9.62	109.90	121.06
1	A	649	ILE	CA-CB-CG1	9.61	126.74	110.40
5	F	150	GLU	N-CA-CB	-9.61	95.38	110.28
1	A	1278	ASN	CA-C-N	-9.61	111.03	122.95
1	A	1278	ASN	C-N-CA	-9.61	111.03	122.95
2	B	175	ARG	CB-CG-CD	9.61	133.40	111.30
2	B	598	GLU	CB-CG-CD	9.61	128.93	112.60
4	E	204	THR	CA-CB-CG2	9.61	126.83	110.50
3	C	108	GLU	CA-C-O	9.60	131.08	121.00
2	B	272	THR	N-CA-C	-9.60	91.23	108.02
2	B	982	SER	CA-C-O	-9.60	110.21	121.82
1	A	497	THR	CA-C-O	-9.58	110.28	120.63
3	C	89	GLU	N-CA-C	-9.57	93.58	109.46
9	K	94	ILE	O-C-N	9.56	133.60	121.94
1	A	415	LEU	CA-C-N	-9.55	105.40	121.92
1	A	415	LEU	C-N-CA	-9.55	105.40	121.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	59	LEU	N-CA-C	-9.55	98.92	111.24
2	B	589	VAL	O-C-N	-9.54	112.51	123.00
2	B	845	SER	CA-C-N	-9.54	107.39	120.46
2	B	845	SER	C-N-CA	-9.54	107.39	120.46
6	H	91	ASP	N-CA-C	9.53	123.95	108.41
1	A	782	ARG	O-C-N	9.53	134.15	123.48
1	A	938	LYS	CB-CA-C	-9.53	95.85	110.90
2	B	1129	ARG	NE-CZ-NH2	-9.52	110.64	119.20
9	K	17	SER	CB-CA-C	-9.52	93.42	110.36
3	C	24	ASN	N-CA-C	9.51	124.58	111.17
9	K	78	THR	N-CA-C	9.51	122.61	110.24
2	B	96	TYR	CA-C-N	-9.51	109.01	122.71
2	B	96	TYR	C-N-CA	-9.51	109.01	122.71
10	L	58	LYS	CA-C-N	-9.51	103.38	121.54
10	L	58	LYS	C-N-CA	-9.51	103.38	121.54
1	A	1280	GLU	CA-CB-CG	9.50	133.11	114.10
7	I	106	CYS	CA-C-N	9.50	136.18	122.40
7	I	106	CYS	C-N-CA	9.50	136.18	122.40
9	K	56	VAL	CA-C-O	9.49	132.33	120.75
2	B	944	THR	CB-CA-C	-9.49	94.24	110.09
2	B	22	SER	CA-C-O	9.48	130.44	119.35
3	C	205	LYS	O-C-N	9.48	131.83	122.07
3	C	100	THR	OG1-CB-CG2	-9.47	90.35	109.30
1	A	859	SER	N-CA-C	-9.47	101.72	113.18
2	B	209	GLU	O-C-N	-9.46	111.98	123.04
1	A	203	SER	N-CA-CB	9.45	123.85	109.97
3	C	154	LYS	CA-C-O	-9.45	110.50	120.70
1	A	1017	LEU	CA-C-N	-9.43	107.64	120.28
1	A	1017	LEU	C-N-CA	-9.43	107.64	120.28
2	B	773	MET	O-C-N	-9.43	112.12	122.12
1	A	1140	HIS	CA-C-O	-9.41	109.99	120.81
1	A	548	ASN	CB-CG-ND2	-9.40	102.29	116.40
4	E	79	TRP	O-C-N	-9.40	111.01	123.23
1	A	934	LYS	N-CA-C	-9.39	101.05	111.28
6	H	116	TYR	N-CA-C	9.39	130.80	110.80
1	A	474	VAL	N-CA-C	-9.38	103.54	112.83
2	B	806	THR	N-CA-CB	-9.37	96.02	111.20
2	B	398	ARG	CB-CA-C	-9.37	91.78	110.42
1	A	389	THR	OG1-CB-CG2	-9.36	90.58	109.30
8	J	41	LEU	N-CA-C	-9.36	90.34	107.75
9	K	65	HIS	O-C-N	-9.36	114.54	121.84
2	B	595	ARG	N-CA-CB	9.36	123.88	109.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1002	THR	N-CA-CB	-9.36	96.07	110.29
2	B	802	PRO	CA-C-O	-9.35	110.38	121.03
4	E	65	THR	CA-C-N	-9.35	107.02	120.29
4	E	65	THR	C-N-CA	-9.35	107.02	120.29
2	B	747	MET	CG-SD-CE	-9.34	80.34	100.90
8	J	58	GLU	CB-CG-CD	9.34	128.47	112.60
8	J	43	ARG	NE-CZ-NH2	9.33	127.60	119.20
1	A	536	LEU	N-CA-CB	-9.33	97.60	110.38
2	B	686	ASN	O-C-N	9.33	132.01	122.12
3	C	88	CYS	N-CA-C	9.32	121.88	110.41
1	A	217	LYS	N-CA-C	9.32	122.39	111.02
2	B	346	GLU	CA-C-O	-9.32	107.92	119.38
8	J	49	MET	CB-CG-SD	9.32	140.65	112.70
1	A	1438	THR	N-CA-CB	-9.31	94.09	110.39
1	A	70	CYS	CA-CB-SG	9.31	135.82	114.40
1	A	474	VAL	O-C-N	-9.31	113.11	122.14
1	A	921	GLY	CA-C-O	9.30	129.42	119.00
1	A	396	PRO	N-CD-CG	-9.30	89.25	103.20
2	B	1207	LEU	N-CA-C	9.30	122.41	111.71
2	B	982	SER	O-C-N	9.30	133.73	122.20
2	B	710	LEU	CD1-CG-CD2	-9.29	90.36	110.80
2	B	620	ARG	CA-C-O	9.29	129.74	119.15
1	A	926	GLN	CA-C-O	-9.28	110.71	120.55
2	B	336	ARG	N-CA-C	9.28	122.38	111.71
1	A	1001	ARG	O-C-N	-9.28	112.64	122.19
1	A	1062	GLU	CA-CB-CG	9.28	132.65	114.10
2	B	963	PHE	CB-CA-C	-9.28	91.06	109.33
1	A	264	PHE	CB-CA-C	9.27	128.45	110.46
2	B	739	THR	CB-CA-C	-9.27	93.98	109.55
8	J	15	GLY	N-CA-C	9.27	125.37	114.16
2	B	65	GLU	N-CA-C	-9.26	98.30	110.53
2	B	184	ALA	CA-C-O	-9.26	111.68	121.87
1	A	1033	GLN	N-CA-C	-9.26	101.75	113.23
7	I	75	CYS	CA-CB-SG	9.25	135.69	114.40
2	B	1166	CYS	CA-CB-SG	9.25	135.68	114.40
3	C	160	LYS	CD-CE-NZ	9.25	141.49	111.90
1	A	895	LYS	CA-C-O	9.23	130.34	120.55
2	B	916	THR	N-CA-C	9.23	136.85	111.00
1	A	728	LYS	N-CA-CB	9.22	124.42	110.22
3	C	6	PRO	CB-CA-C	-9.22	103.01	111.40
2	B	589	VAL	CB-CA-C	9.22	127.77	111.18
6	H	3	ASN	CA-C-N	9.21	137.36	122.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	H	3	ASN	C-N-CA	9.21	137.36	122.53
1	A	127	ALA	CA-C-N	9.21	134.68	120.13
1	A	127	ALA	C-N-CA	9.21	134.68	120.13
2	B	620	ARG	N-CA-CB	-9.21	96.81	110.53
2	B	712	PRO	N-CD-CG	-9.20	89.39	103.20
5	F	97	ARG	NE-CZ-NH1	9.20	130.70	121.50
1	A	1377	THR	N-CA-CB	9.20	125.40	110.40
1	A	22	PHE	N-CA-C	-9.19	93.61	108.41
1	A	999	VAL	N-CA-CB	-9.19	99.31	111.90
6	H	53	ASP	CA-C-N	-9.19	106.80	121.87
6	H	53	ASP	C-N-CA	-9.19	106.80	121.87
1	A	873	MET	N-CA-C	9.18	124.11	110.52
9	K	107	THR	O-C-N	9.18	133.28	122.17
1	A	831	THR	N-CA-C	-9.18	101.17	111.82
1	A	1019	CYS	CA-C-O	-9.18	111.08	120.90
1	A	393	ARG	NE-CZ-NH1	-9.17	112.33	121.50
4	E	61	GLN	CA-C-O	-9.17	111.22	121.40
1	A	1058	VAL	CB-CA-C	9.16	123.92	111.28
1	A	592	ASP	CA-C-O	-9.16	110.72	120.89
1	A	85	ASP	N-CA-C	-9.16	95.73	110.20
2	B	452	THR	OG1-CB-CG2	-9.16	90.99	109.30
2	B	284	ILE	CG1-CB-CG2	-9.15	83.24	110.70
7	I	120	GLN	N-CA-C	9.15	124.93	111.02
2	B	546	SER	CA-C-O	-9.15	111.81	121.87
1	A	244	PRO	N-CA-C	9.14	121.85	110.70
3	C	90	ASP	N-CA-C	9.13	130.26	110.80
5	F	153	VAL	CA-C-O	-9.13	110.11	120.97
10	L	53	HIS	N-CA-C	9.13	123.47	108.96
1	A	452	LYS	CB-CG-CD	-9.13	90.31	111.30
1	A	1073	GLY	N-CA-C	9.13	134.81	113.18
1	A	884	ASP	CA-C-O	-9.12	108.91	120.31
1	A	182	VAL	O-C-N	-9.12	113.33	123.18
2	B	344	LYS	N-CA-CB	-9.11	96.64	110.04
4	E	57	MET	N-CA-C	-9.10	101.60	112.89
2	B	1042	GLY	O-C-N	9.10	130.62	123.61
2	B	870	ILE	N-CA-CB	9.09	121.37	112.28
7	I	13	MET	N-CA-CB	-9.09	96.68	110.04
1	A	437	MET	CB-CA-C	-9.09	93.36	111.17
7	I	27	PHE	N-CA-C	9.08	123.53	108.73
8	J	48	ARG	CD-NE-CZ	9.08	137.11	124.40
1	A	731	ARG	NH1-CZ-NH2	9.07	131.09	119.30
1	A	1021	LEU	N-CA-C	-9.07	101.47	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	51	GLY	CA-C-N	9.07	132.83	120.67
4	E	51	GLY	C-N-CA	9.07	132.83	120.67
3	C	158	VAL	N-CA-C	9.07	121.23	107.99
7	I	84	VAL	N-CA-CB	-9.07	90.40	111.81
1	A	98	LYS	O-C-N	9.07	131.88	122.09
1	A	744	LYS	N-CA-C	-9.07	100.80	112.23
2	B	1018	PRO	CB-CA-C	-9.06	98.88	112.11
1	A	1019	CYS	N-CA-C	9.06	121.98	111.11
1	A	709	THR	N-CA-C	9.06	130.09	110.80
2	B	1109	GLY	N-CA-C	9.06	130.82	112.34
2	B	501	PRO	O-C-N	9.05	133.24	123.10
2	B	555	ILE	CA-C-O	9.05	130.46	121.05
1	A	648	ASN	N-CA-C	9.05	122.11	111.71
2	B	564	GLU	OE1-CD-OE2	9.05	144.61	122.90
2	B	883	LEU	CA-CB-CG	9.05	147.96	116.30
1	A	832	ALA	CA-C-N	9.04	132.75	120.54
1	A	832	ALA	C-N-CA	9.04	132.75	120.54
3	C	232	VAL	CA-C-N	-9.04	108.08	122.73
3	C	232	VAL	C-N-CA	-9.04	108.08	122.73
1	A	244	PRO	CA-C-O	-9.04	107.45	120.56
1	A	1020	CYS	N-CA-C	9.04	122.11	111.71
2	B	874	PHE	N-CA-C	-9.04	94.66	108.67
1	A	382	PRO	CA-C-O	-9.04	107.06	118.99
1	A	1241	ARG	CG-CD-NE	-9.04	92.11	112.00
7	I	52	ILE	CA-C-O	9.04	131.34	121.04
2	B	531	GLN	CA-C-O	-9.04	108.10	119.31
2	B	767	ASN	N-CA-C	-9.04	101.34	111.82
2	B	1005	GLY	N-CA-C	9.04	127.31	115.47
9	K	88	LYS	CA-C-N	-9.04	107.27	120.28
9	K	88	LYS	C-N-CA	-9.04	107.27	120.28
9	K	17	SER	N-CA-C	9.03	123.42	110.14
1	A	557	ASP	O-C-N	-9.03	110.58	122.59
3	C	147	LEU	N-CA-C	9.03	123.77	109.50
6	H	140	ALA	N-CA-C	9.03	123.42	107.80
2	B	1097	HIS	CB-CA-C	9.03	128.38	110.42
2	B	1041	GLU	N-CA-CB	9.03	123.47	109.48
6	H	107	VAL	N-CA-C	-9.03	90.57	109.34
6	H	139	ASN	N-CA-C	-9.03	91.57	110.80
2	B	1084	GLN	CA-C-N	9.02	134.37	123.19
2	B	1084	GLN	C-N-CA	9.02	134.37	123.19
1	A	807	GLY	O-C-N	-9.02	112.18	122.64
4	E	96	PHE	N-CA-C	-9.01	101.41	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1011	ILE	CB-CA-C	-9.01	99.27	110.99
6	H	42	ILE	N-CA-CB	-9.01	96.67	111.45
2	B	1002	THR	OG1-CB-CG2	-9.01	91.28	109.30
1	A	908	LEU	N-CA-CB	-9.00	95.31	110.16
4	E	172	GLU	N-CA-C	-9.00	101.55	111.36
8	J	6	ARG	CA-C-O	-9.00	110.93	121.46
2	B	327	ARG	NE-CZ-NH1	-9.00	112.50	121.50
2	B	895	ASP	N-CA-CB	9.00	125.52	110.41
9	K	114	LEU	CB-CG-CD2	8.98	137.64	110.70
2	B	789	MET	CB-CA-C	-8.98	98.48	111.23
4	E	61	GLN	N-CA-C	-8.98	96.20	108.86
6	H	110	ASP	CA-C-N	8.98	137.42	122.07
6	H	110	ASP	C-N-CA	8.98	137.42	122.07
1	A	748	MET	CG-SD-CE	8.97	120.64	100.90
9	K	45	LEU	N-CA-C	-8.97	100.45	111.40
2	B	244	LEU	N-CA-C	8.97	124.31	109.06
2	B	290	GLY	N-CA-C	8.97	127.92	115.27
1	A	1315	GLU	N-CA-C	8.96	124.33	113.12
1	A	545	GLN	N-CA-C	-8.96	100.67	111.69
2	B	102	VAL	CB-CA-C	-8.96	97.25	110.33
1	A	32	VAL	CG1-CB-CG2	-8.96	91.10	110.80
1	A	953	ASN	O-C-N	-8.95	113.02	123.22
2	B	1104	HIS	N-CA-C	-8.95	96.39	108.74
4	E	100	ILE	CB-CA-C	-8.95	100.33	111.87
1	A	198	GLU	CA-C-O	-8.95	110.50	120.70
1	A	107	CYS	CA-CB-SG	8.94	134.96	114.40
2	B	1019	SER	CA-C-O	-8.94	110.32	120.24
4	E	24	LYS	CD-CE-NZ	-8.94	83.30	111.90
1	A	766	GLY	N-CA-C	8.94	126.30	112.45
9	K	92	ASN	CB-CA-C	8.94	125.13	110.92
1	A	699	ALA	N-CA-C	8.93	124.01	113.20
1	A	941	LYS	N-CA-CB	8.93	123.02	110.07
1	A	1269	GLU	N-CA-C	8.92	124.27	113.12
2	B	942	ARG	CB-CA-C	-8.92	97.31	109.71
3	C	184	ASN	CA-C-N	-8.91	106.14	122.09
3	C	184	ASN	C-N-CA	-8.91	106.14	122.09
3	C	24	ASN	CB-CA-C	-8.91	98.07	112.06
2	B	828	ALA	N-CA-C	8.91	122.83	108.76
2	B	399	ASP	N-CA-CB	-8.90	97.56	110.56
1	A	1228	TRP	CB-CA-C	-8.90	94.94	110.95
7	I	34	TYR	CD1-CG-CD2	-8.90	104.75	118.10
3	C	185	LYS	N-CA-C	-8.89	102.56	113.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	131	PRO	CB-CA-C	-8.89	100.25	112.97
3	C	73	GLN	CA-CB-CG	-8.89	96.31	114.10
2	B	563	MET	CA-C-O	-8.89	111.21	121.16
1	A	1277	GLU	CB-CA-C	-8.88	94.97	109.72
2	B	879	ARG	CB-CA-C	-8.88	92.74	110.42
2	B	169	ARG	O-C-N	-8.88	112.97	123.27
1	A	234	MET	N-CA-C	-8.87	102.16	113.16
7	I	45	ARG	CA-CB-CG	8.87	131.84	114.10
2	B	461	LEU	N-CA-C	8.87	121.91	111.71
6	H	108	SER	CA-C-O	-8.87	111.08	121.46
1	A	416	ARG	N-CA-C	-8.86	102.60	113.50
2	B	1185	CYS	CB-CA-C	8.86	125.42	109.29
1	A	985	ASP	CB-CG-OD1	-8.86	98.02	118.40
2	B	648	HIS	N-CA-C	8.86	123.15	109.60
2	B	1085	ILE	N-CA-C	8.86	120.57	108.17
1	A	207	ILE	N-CA-CB	8.86	120.66	110.65
2	B	30	SER	N-CA-C	8.85	120.93	111.28
2	B	799	PRO	CA-C-O	-8.85	111.36	121.36
3	C	133	ILE	O-C-N	8.83	132.61	122.81
9	K	51	LEU	N-CA-CB	-8.83	97.67	110.47
2	B	833	TYR	CA-C-O	-8.83	109.02	119.35
8	J	2	ILE	CA-C-O	-8.83	112.10	121.19
2	B	798	TYR	CA-C-N	8.82	128.90	119.90
2	B	798	TYR	C-N-CA	8.82	128.90	119.90
1	A	174	ILE	CG1-CB-CG2	-8.82	84.24	110.70
1	A	968	GLN	CA-CB-CG	-8.81	96.47	114.10
1	A	1265	ASN	N-CA-C	8.81	121.69	111.11
7	I	22	ASN	O-C-N	8.81	132.74	122.25
1	A	140	THR	OG1-CB-CG2	-8.81	91.69	109.30
1	A	622	VAL	N-CA-CB	-8.81	100.90	112.26
1	A	1108	ALA	N-CA-C	8.81	122.72	109.25
1	A	137	ALA	N-CA-C	8.80	121.98	111.33
2	B	337	ARG	CG-CD-NE	-8.80	92.64	112.00
2	B	620	ARG	CG-CD-NE	-8.80	92.65	112.00
2	B	231	PRO	N-CD-CG	8.79	116.39	103.20
2	B	598	GLU	N-CA-C	-8.79	101.78	111.36
3	C	246	ARG	NE-CZ-NH2	8.79	127.11	119.20
8	J	43	ARG	CG-CD-NE	-8.79	92.67	112.00
9	K	49	GLU	N-CA-CB	8.79	122.81	110.07
2	B	299	GLU	N-CA-C	8.78	122.00	111.82
5	F	135	ARG	CA-C-O	-8.78	111.41	120.54
1	A	962	ARG	NE-CZ-NH2	-8.77	111.31	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	262	LEU	N-CA-C	8.77	120.53	110.97
3	C	113	VAL	O-C-N	-8.76	111.40	122.97
1	A	806	ARG	NH1-CZ-NH2	8.76	130.69	119.30
1	A	1203	ASN	CB-CA-C	8.76	124.74	110.90
1	A	656	TRP	N-CA-C	8.76	121.78	111.71
4	E	50	MET	CG-SD-CE	8.76	120.17	100.90
2	B	225	VAL	N-CA-C	8.75	122.53	108.97
8	J	7	CYS	CB-CA-C	-8.75	97.55	109.71
2	B	273	LEU	CB-CA-C	-8.75	95.46	109.37
1	A	468	PHE	N-CA-C	-8.75	96.38	110.20
4	E	180	ARG	NE-CZ-NH2	8.74	127.07	119.20
1	A	1001	ARG	CA-C-O	8.74	128.74	118.69
3	C	125	MET	CG-SD-CE	8.74	120.12	100.90
2	B	212	LEU	N-CA-C	8.73	123.96	109.46
7	I	96	SER	CA-CB-OG	8.73	128.57	111.10
9	K	51	LEU	N-CA-C	8.73	123.50	113.02
1	A	95	PHE	N-CA-CB	-8.73	98.38	110.95
2	B	639	ILE	CA-CB-CG1	8.72	125.23	110.40
1	A	441	PRO	N-CA-CB	-8.71	95.69	103.36
2	B	336	ARG	CB-CA-C	-8.71	94.51	110.63
2	B	56	ASP	O-C-N	-8.71	111.00	122.33
2	B	711	GLU	CB-CA-C	-8.71	93.01	110.17
1	A	758	ILE	O-C-N	8.71	130.32	121.87
2	B	465	ASN	N-CA-C	8.71	123.95	107.75
1	A	50	ILE	CA-C-O	-8.70	111.26	120.48
5	F	149	GLU	N-CA-CB	8.70	123.97	109.78
9	K	24	ASP	N-CA-C	8.70	123.95	110.20
1	A	789	LYS	O-C-N	-8.70	112.58	122.75
2	B	396	ASP	CA-C-O	-8.70	111.42	121.16
2	B	1038	SER	N-CA-C	8.69	123.88	113.28
2	B	415	GLN	O-C-N	8.69	131.13	122.09
1	A	124	GLN	N-CA-CB	8.68	123.74	110.28
1	A	541	ILE	CG1-CB-CG2	-8.68	84.65	110.70
2	B	227	LYS	CD-CE-NZ	8.68	139.69	111.90
1	A	913	LEU	O-C-N	-8.68	113.25	123.41
1	A	81	PHE	CA-C-O	8.68	129.89	120.43
9	K	1	MET	CG-SD-CE	8.68	119.99	100.90
1	A	752	LYS	CD-CE-NZ	8.67	139.64	111.90
1	A	503	GLN	O-C-N	-8.66	111.07	122.42
2	B	552	MET	CA-CB-CG	8.66	131.42	114.10
1	A	243	PRO	CB-CA-C	-8.65	100.36	110.92
2	B	807	ARG	CG-CD-NE	-8.65	92.98	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	512	VAL	CA-CB-CG2	-8.64	95.70	110.40
7	I	97	MET	CA-C-O	8.64	131.01	120.55
2	B	1212	ILE	CA-CB-CG1	-8.64	95.72	110.40
3	C	187	LYS	N-CA-CB	-8.64	98.97	111.84
2	B	812	LEU	N-CA-C	-8.64	102.45	113.16
2	B	589	VAL	N-CA-CB	-8.63	95.22	111.62
2	B	1030	LEU	N-CA-C	8.63	120.76	111.36
7	I	52	ILE	N-CA-C	-8.62	98.52	109.30
1	A	211	PHE	N-CA-C	-8.62	101.82	111.82
1	A	603	ASN	N-CA-CB	-8.62	96.66	110.46
1	A	977	LYS	N-CA-C	-8.62	94.26	108.23
1	A	424	ILE	CG1-CB-CG2	-8.62	84.84	110.70
2	B	354	ASP	CA-C-O	-8.62	111.77	120.82
1	A	149	GLU	N-CA-C	8.62	121.72	110.43
8	J	59	LYS	N-CA-C	-8.61	102.91	113.50
2	B	522	VAL	N-CA-CB	-8.61	97.98	112.44
1	A	369	SER	N-CA-C	8.61	121.61	111.71
1	A	861	GLY	CA-C-N	-8.61	105.30	120.97
1	A	861	GLY	C-N-CA	-8.61	105.30	120.97
1	A	1112	LYS	N-CA-C	8.60	120.58	111.03
2	B	398	ARG	N-CA-C	8.60	129.11	110.80
3	C	169	LYS	O-C-N	8.60	131.23	122.12
4	E	40	GLU	O-C-N	8.60	132.28	122.22
4	E	100	ILE	O-C-N	8.60	131.14	121.94
1	A	736	ASN	CA-C-N	-8.60	107.09	122.74
1	A	736	ASN	C-N-CA	-8.60	107.09	122.74
1	A	367	PRO	CA-C-O	8.59	131.06	121.36
9	K	13	GLY	N-CA-C	-8.59	101.55	112.54
1	A	739	ASP	N-CA-C	8.58	129.08	110.80
4	E	133	GLU	CA-C-N	-8.58	109.05	122.87
4	E	133	GLU	C-N-CA	-8.58	109.05	122.87
2	B	595	ARG	N-CA-C	8.58	121.41	111.11
2	B	619	ILE	N-CA-C	-8.58	100.25	112.35
10	L	47	ARG	NE-CZ-NH2	8.58	126.92	119.20
1	A	1161	THR	OG1-CB-CG2	-8.57	92.15	109.30
4	E	180	ARG	N-CA-C	-8.57	102.02	111.36
1	A	1050	GLU	O-C-N	-8.57	112.38	122.15
1	A	1100	ARG	NE-CZ-NH1	8.57	130.07	121.50
1	A	90	VAL	N-CA-CB	-8.56	96.51	112.36
1	A	59	GLY	N-CA-C	8.56	133.46	113.18
2	B	1153	GLU	CB-CA-C	8.56	125.29	109.54
9	K	82	ASP	CA-C-O	8.56	128.36	119.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	896	ASP	N-CA-CB	8.56	123.79	110.44
2	B	518	HIS	CA-CB-CG	8.55	122.35	113.80
1	A	1172	LEU	CB-CA-C	-8.55	100.62	111.22
1	A	1347	ALA	N-CA-C	-8.55	102.04	111.36
2	B	185	THR	OG1-CB-CG2	-8.55	92.20	109.30
5	F	119	ARG	N-CA-C	8.55	121.74	111.82
1	A	474	VAL	N-CA-CB	-8.55	97.72	112.08
2	B	392	ARG	NE-CZ-NH2	-8.55	111.51	119.20
4	E	198	ILE	O-C-N	-8.55	114.14	123.20
3	C	106	GLU	O-C-N	8.54	132.27	122.19
1	A	400	PRO	CB-CA-C	8.54	125.65	111.56
3	C	213	PRO	CA-C-O	-8.54	110.88	122.15
1	A	803	SER	CA-C-O	-8.53	112.24	121.88
10	L	25	ALA	CA-C-N	8.53	137.84	121.54
10	L	25	ALA	C-N-CA	8.53	137.84	121.54
2	B	853	SER	CA-CB-OG	8.53	128.16	111.10
3	C	228	PHE	N-CA-CB	-8.53	96.05	110.80
2	B	983	ARG	CD-NE-CZ	-8.52	112.47	124.40
2	B	657	HIS	CA-C-N	-8.52	106.50	120.64
2	B	657	HIS	C-N-CA	-8.52	106.50	120.64
2	B	239	GLU	CB-CG-CD	8.52	127.08	112.60
3	C	138	GLU	N-CA-C	8.51	123.67	113.28
1	A	359	LEU	CB-CG-CD2	-8.51	85.17	110.70
3	C	5	GLY	N-CA-C	8.51	129.70	112.34
3	C	192	TRP	O-C-N	-8.51	113.34	122.96
2	B	63	ILE	O-C-N	-8.51	112.36	122.06
6	H	102	TYR	CA-C-O	8.50	128.64	119.03
10	L	55	ILE	CB-CA-C	-8.50	98.05	110.63
3	C	12	GLU	CB-CG-CD	-8.49	98.16	112.60
7	I	95	THR	N-CA-C	8.49	121.90	110.35
1	A	537	ARG	CB-CG-CD	8.49	130.82	111.30
2	B	678	GLU	CA-C-N	-8.48	110.63	122.93
2	B	678	GLU	C-N-CA	-8.48	110.63	122.93
2	B	98	THR	CA-C-O	-8.48	111.72	121.47
2	B	1183	LYS	N-CA-C	-8.48	92.74	110.80
1	A	76	GLU	CA-C-N	8.48	135.05	121.83
1	A	76	GLU	C-N-CA	8.48	135.05	121.83
4	E	12	LEU	N-CA-C	-8.47	102.04	111.28
1	A	1121	GLU	OE1-CD-OE2	-8.47	102.57	122.90
2	B	607	GLY	CA-C-O	8.46	128.37	118.97
1	A	969	GLN	N-CA-C	-8.46	101.43	112.68
1	A	1211	GLN	N-CA-CB	8.46	122.34	110.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	646	PHE	N-CA-C	-8.46	102.14	111.36
9	K	34	THR	N-CA-CB	-8.46	97.27	110.55
1	A	830	LYS	N-CA-CB	8.45	122.27	110.01
1	A	1298	TYR	N-CA-C	-8.45	96.88	110.32
1	A	899	VAL	CG1-CB-CG2	-8.45	92.20	110.80
5	F	72	LYS	N-CA-C	8.45	134.66	111.00
7	I	119	THR	O-C-N	8.45	132.40	122.17
3	C	183	TRP	CA-C-O	-8.45	111.60	121.82
1	A	66	LYS	N-CA-C	8.44	122.18	107.49
2	B	238	ALA	CA-C-O	-8.44	110.95	120.66
2	B	1220	ARG	N-CA-CB	8.44	124.76	110.49
8	J	3	VAL	CA-CB-CG2	-8.44	96.05	110.40
2	B	899	ILE	N-CA-C	-8.44	91.79	109.34
2	B	809	MET	CA-C-O	8.43	129.69	119.49
1	A	911	SER	O-C-N	8.43	133.72	122.43
1	A	940	ARG	CG-CD-NE	-8.43	93.46	112.00
1	A	1370	LEU	CD1-CG-CD2	-8.43	92.26	110.80
1	A	616	VAL	O-C-N	-8.43	113.43	122.61
1	A	835	GLY	CA-C-O	-8.43	112.54	120.80
1	A	504	LEU	CA-C-O	-8.42	109.42	118.77
2	B	481	GLN	N-CA-CB	-8.42	97.97	111.62
2	B	567	GLU	CB-CG-CD	8.42	126.92	112.60
3	C	245	VAL	N-CA-C	-8.42	102.21	110.72
1	A	782	ARG	N-CA-C	8.42	122.06	108.76
1	A	1136	SER	N-CA-CB	-8.42	97.31	110.44
2	B	595	ARG	CB-CA-C	-8.41	97.35	110.81
2	B	63	ILE	N-CA-C	8.41	124.00	111.89
2	B	198	ASP	CA-C-O	-8.41	112.64	121.55
1	A	429	GLY	N-CA-C	-8.40	103.99	114.92
1	A	655	PHE	CA-C-N	-8.40	108.18	120.28
1	A	655	PHE	C-N-CA	-8.40	108.18	120.28
2	B	48	LEU	CA-C-O	-8.40	111.19	121.02
1	A	1311	VAL	CA-C-O	-8.40	111.45	120.36
7	I	3	THR	O-C-N	8.40	134.49	123.06
1	A	889	SER	CA-C-O	-8.40	112.07	121.89
8	J	45	CYS	O-C-N	-8.40	113.30	122.03
10	L	48	CYS	CA-C-N	8.40	137.58	121.54
10	L	48	CYS	C-N-CA	8.40	137.58	121.54
4	E	194	GLU	CA-C-O	-8.39	111.81	121.47
1	A	393	ARG	O-C-N	8.39	131.72	122.15
2	B	1183	LYS	CG-CD-CE	8.39	130.60	111.30
6	H	11	GLN	CB-CA-C	-8.39	96.43	110.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	207	ARG	NH1-CZ-NH2	-8.39	108.39	119.30
1	A	1013	ASP	N-CA-C	-8.39	102.08	111.14
1	A	214	ILE	O-C-N	8.38	132.56	122.83
1	A	446	ARG	NH1-CZ-NH2	8.38	130.20	119.30
1	A	1038	THR	CA-C-O	-8.38	111.68	121.82
1	A	1422	ARG	NH1-CZ-NH2	-8.38	108.40	119.30
1	A	1202	MET	N-CA-C	-8.38	101.17	111.40
10	L	58	LYS	O-C-N	-8.38	111.44	122.59
1	A	941	LYS	CB-CA-C	-8.38	97.66	110.90
4	E	55	ARG	CA-C-O	8.38	129.62	120.82
1	A	193	ASP	N-CA-CB	8.38	124.65	110.49
2	B	587	HIS	CA-C-O	-8.38	109.47	119.27
2	B	316	PRO	CA-CB-CG	-8.37	88.59	104.50
2	B	1129	ARG	NE-CZ-NH1	8.37	129.87	121.50
2	B	365	THR	OG1-CB-CG2	-8.37	92.56	109.30
6	H	139	ASN	CA-CB-CG	8.36	120.96	112.60
2	B	327	ARG	NH1-CZ-NH2	8.36	130.17	119.30
2	B	1022	THR	CB-CA-C	8.36	124.51	111.72
2	B	630	ALA	N-CA-C	8.36	121.38	110.43
1	A	1328	TYR	N-CA-C	8.35	122.11	109.41
1	A	970	THR	N-CA-C	8.35	121.31	111.71
3	C	42	PRO	N-CA-CB	-8.35	96.31	103.32
2	B	270	LYS	CD-CE-NZ	-8.34	85.20	111.90
2	B	608	ASP	CA-C-O	-8.34	109.95	119.79
1	A	361	LEU	N-CA-C	8.34	125.12	111.37
1	A	1047	SER	N-CA-C	-8.33	102.56	112.89
3	C	50	GLU	CB-CG-CD	8.33	126.76	112.60
2	B	1201	LYS	CA-C-N	-8.33	109.61	120.44
2	B	1201	LYS	C-N-CA	-8.33	109.61	120.44
2	B	408	LEU	CB-CG-CD2	-8.32	85.73	110.70
9	K	95	ILE	CA-C-N	8.32	134.60	120.71
9	K	95	ILE	C-N-CA	8.32	134.60	120.71
1	A	889	SER	O-C-N	8.31	132.41	122.68
1	A	1129	GLU	CB-CA-C	8.31	126.37	109.67
1	A	853	ASP	N-CA-C	8.31	124.83	113.37
2	B	509	ALA	CB-CA-C	8.31	122.96	110.50
1	A	1118	VAL	N-CA-CB	8.30	122.86	111.41
1	A	761	MET	CG-SD-CE	8.30	119.16	100.90
1	A	1120	LEU	N-CA-C	8.30	122.80	110.52
7	I	29	CYS	CB-CA-C	-8.30	95.48	109.50
1	A	234	MET	CA-C-O	-8.29	109.25	119.28
2	B	419	THR	OG1-CB-CG2	-8.29	92.71	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	J	7	CYS	CA-CB-SG	8.29	133.47	114.40
6	H	86	ASP	CB-CA-C	8.29	126.91	110.42
1	A	138	ILE	CA-CB-CG2	8.28	124.58	110.50
3	C	199	LYS	CB-CG-CD	8.29	130.35	111.30
4	E	166	LYS	N-CA-C	-8.28	102.19	111.14
9	K	78	THR	N-CA-CB	8.28	123.17	109.92
3	C	233	GLU	O-C-N	8.28	133.37	123.27
1	A	1141	THR	OG1-CB-CG2	-8.27	92.75	109.30
2	B	270	LYS	CB-CA-C	-8.27	95.23	110.62
8	J	50	ILE	CB-CA-C	8.27	122.76	111.92
1	A	411	ASP	N-CA-CB	8.27	122.17	109.85
3	C	94	LYS	N-CA-CB	8.27	122.85	110.53
10	L	41	SER	N-CA-C	8.27	128.41	110.80
1	A	938	LYS	N-CA-CB	8.27	122.06	110.07
2	B	510	LYS	CB-CG-CD	-8.26	92.29	111.30
4	E	11	ARG	NE-CZ-NH1	-8.26	113.24	121.50
2	B	1002	THR	O-C-N	-8.26	113.63	122.96
9	K	107	THR	CA-C-O	-8.26	111.71	120.55
1	A	693	VAL	CA-C-O	-8.26	112.10	120.85
1	A	940	ARG	NE-CZ-NH1	8.26	129.75	121.50
1	A	739	ASP	N-CA-CB	-8.25	96.54	110.49
1	A	12	ARG	O-C-N	-8.25	113.61	123.10
6	H	140	ALA	CA-C-O	-8.25	109.85	120.25
8	J	34	THR	N-CA-C	-8.25	101.54	111.69
1	A	959	ASN	OD1-CG-ND2	-8.25	114.35	122.60
2	B	1150	ARG	NH1-CZ-NH2	8.25	130.02	119.30
2	B	853	SER	CB-CA-C	-8.25	92.72	110.45
4	E	53	PRO	N-CD-CG	-8.24	90.83	103.20
2	B	889	THR	N-CA-C	8.24	122.67	109.24
6	H	77	ARG	CD-NE-CZ	8.24	135.94	124.40
2	B	764	SER	CA-C-O	8.24	126.33	118.34
2	B	1212	ILE	N-CA-CB	-8.23	101.75	110.72
2	B	915	THR	CA-CB-CG2	8.23	124.49	110.50
2	B	175	ARG	CD-NE-CZ	-8.23	112.88	124.40
9	K	88	LYS	CA-CB-CG	8.23	130.56	114.10
2	B	962	LYS	N-CA-C	-8.23	98.11	110.28
2	B	1137	CYS	O-C-N	-8.23	113.60	122.07
2	B	1198	TYR	CB-CA-C	8.22	123.79	110.88
1	A	1309	ASP	CB-CA-C	-8.22	97.63	110.78
1	A	1143	LEU	N-CA-C	-8.22	102.29	111.82
6	H	32	THR	OG1-CB-CG2	-8.21	92.87	109.30
1	A	111	GLY	CA-C-O	8.21	128.22	118.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	830	LYS	CB-CA-C	-8.21	97.99	110.88
2	B	559	SER	CA-C-O	-8.21	109.66	119.27
7	I	106	CYS	CB-CA-C	-8.21	95.80	109.27
2	B	701	ILE	N-CA-C	8.21	126.42	109.34
1	A	49	LYS	CB-CG-CD	8.21	130.18	111.30
4	E	93	MET	N-CA-C	8.20	120.30	111.36
9	K	12	LEU	CA-C-N	8.20	129.80	120.53
9	K	12	LEU	C-N-CA	8.20	129.80	120.53
4	E	197	LYS	N-CA-C	-8.19	95.89	109.24
2	B	1182	CYS	CA-CB-SG	8.19	133.23	114.40
7	I	92	ARG	NE-CZ-NH1	-8.19	113.31	121.50
2	B	391	ASP	OD1-CG-OD2	-8.18	103.26	122.90
1	A	661	GLY	CA-C-O	-8.18	115.50	121.88
1	A	581	ALA	N-CA-CB	-8.18	98.07	110.33
1	A	1239	ARG	CA-C-N	8.18	134.28	123.00
1	A	1239	ARG	C-N-CA	8.18	134.28	123.00
1	A	722	LEU	CD1-CG-CD2	-8.17	92.82	110.80
2	B	373	ARG	CA-C-O	-8.17	111.76	120.42
7	I	75	CYS	CA-C-O	-8.16	111.91	120.23
2	B	848	ARG	CG-CD-NE	-8.15	94.06	112.00
1	A	1270	ASN	CA-C-N	-8.15	112.26	123.10
1	A	1270	ASN	C-N-CA	-8.15	112.26	123.10
4	E	136	ASN	CA-C-O	-8.15	111.76	121.05
1	A	596	THR	CA-C-O	-8.15	111.70	121.32
1	A	1171	GLN	N-CA-C	-8.15	102.44	112.38
3	C	140	ASN	CA-C-O	8.15	129.40	119.79
3	C	256	ALA	N-CA-C	-8.15	101.96	112.23
1	A	134	ARG	N-CA-C	-8.14	101.46	111.40
1	A	994	GLN	CA-CB-CG	-8.14	97.81	114.10
2	B	194	GLU	CB-CA-C	8.14	123.81	109.72
2	B	56	ASP	N-CA-C	8.14	122.92	112.34
1	A	978	PRO	CA-C-O	8.14	131.00	121.56
3	C	86	CYS	CB-CA-C	8.14	122.96	109.53
2	B	646	LEU	N-CA-C	8.14	128.13	110.80
4	E	208	TYR	CA-C-N	-8.14	111.13	122.93
4	E	208	TYR	C-N-CA	-8.14	111.13	122.93
4	E	75	MET	N-CA-C	-8.13	96.81	109.25
1	A	115	LEU	CD1-CG-CD2	-8.13	92.91	110.80
9	K	23	PRO	N-CD-CG	-8.13	91.00	103.20
1	A	952	ALA	N-CA-CB	-8.13	98.61	110.47
2	B	267	ARG	CA-C-O	8.13	130.01	120.58
2	B	511	PRO	N-CD-CG	-8.13	91.01	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	153	VAL	O-C-N	8.13	133.89	122.59
2	B	552	MET	O-C-N	-8.13	111.97	121.32
1	A	846	GLU	N-CA-CB	-8.12	97.69	110.28
3	C	69	LEU	CD1-CG-CD2	-8.12	92.94	110.80
4	E	14	ARG	NE-CZ-NH2	-8.12	111.90	119.20
4	E	98	ILE	CB-CA-C	8.12	122.67	112.04
2	B	615	MET	N-CA-CB	-8.11	96.61	111.13
1	A	465	TYR	CA-C-N	-8.11	110.34	122.83
1	A	465	TYR	C-N-CA	-8.11	110.34	122.83
1	A	934	LYS	N-CA-CB	8.11	122.04	110.12
1	A	918	GLU	CA-CB-CG	8.10	130.31	114.10
4	E	11	ARG	NH1-CZ-NH2	8.10	129.83	119.30
1	A	278	THR	OG1-CB-CG2	-8.10	93.10	109.30
1	A	1366	ARG	NE-CZ-NH1	8.10	129.60	121.50
6	H	121	LEU	CD1-CG-CD2	-8.10	92.99	110.80
8	J	34	THR	OG1-CB-CG2	-8.10	93.11	109.30
2	B	1162	ILE	CA-CB-CG2	8.09	124.26	110.50
1	A	796	SER	O-C-N	-8.09	113.55	122.12
1	A	1357	ALA	CB-CA-C	-8.09	93.41	110.31
1	A	1107	VAL	CB-CA-C	8.09	124.55	111.29
1	A	1291	VAL	N-CA-C	-8.09	102.56	109.19
10	L	68	GLU	OE1-CD-OE2	-8.09	103.49	122.90
1	A	1113	THR	N-CA-C	8.08	127.67	109.81
1	A	856	THR	N-CA-CB	-8.08	96.78	110.83
2	B	106	ASP	CB-CG-OD2	8.08	136.97	118.40
1	A	493	GLN	CB-CG-CD	8.07	126.32	112.60
2	B	1084	GLN	CA-C-O	-8.07	111.81	121.66
2	B	641	GLU	CB-CG-CD	8.07	126.32	112.60
1	A	238	CYS	CA-C-O	-8.07	110.08	120.25
9	K	108	GLU	N-CA-C	8.07	122.23	112.38
4	E	192	ARG	NE-CZ-NH1	-8.06	113.44	121.50
4	E	175	LEU	N-CA-C	-8.06	99.91	110.39
1	A	887	GLY	CA-C-N	-8.06	104.47	122.04
1	A	887	GLY	C-N-CA	-8.06	104.47	122.04
2	B	974	PRO	CB-CA-C	-8.05	101.08	111.39
8	J	7	CYS	N-CA-CB	8.05	121.66	109.34
1	A	632	VAL	N-CA-C	8.05	118.11	110.30
1	A	1424	VAL	N-CA-C	8.05	118.85	110.72
2	B	558	LEU	CA-C-O	8.05	129.08	120.55
4	E	55	ARG	N-CA-C	8.05	119.68	111.07
2	B	799	PRO	N-CD-CG	-8.04	91.13	103.20
1	A	547	LEU	N-CA-C	-8.04	102.92	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1166	CYS	O-C-N	-8.04	111.11	121.97
7	I	39	GLY	O-C-N	-8.04	114.46	122.18
1	A	205	GLU	CB-CG-CD	8.04	126.26	112.60
2	B	370	PHE	CB-CA-C	8.04	126.41	110.42
7	I	41	PRO	CA-C-O	8.03	127.83	118.68
10	L	61	THR	N-CA-CB	8.03	121.84	110.36
4	E	16	PHE	N-CA-C	-8.02	102.12	112.23
1	A	748	MET	CA-CB-CG	-8.02	98.06	114.10
2	B	904	ARG	CA-C-O	-8.02	111.78	120.92
2	B	1011	ILE	N-CA-C	8.02	120.03	107.28
1	A	162	VAL	CA-C-O	-8.01	112.94	121.19
9	K	26	LYS	CA-C-O	8.01	129.15	120.10
1	A	949	ASP	CA-C-O	8.00	129.18	119.97
1	A	33	ALA	N-CA-C	8.00	121.83	110.23
2	B	842	ASN	N-CA-C	-8.00	95.69	108.73
2	B	1144	ALA	N-CA-C	8.00	120.91	111.71
1	A	1445	ILE	O-C-N	8.00	132.10	122.83
2	B	795	ILE	CA-C-O	7.99	128.83	120.36
2	B	348	ARG	NE-CZ-NH1	7.99	129.49	121.50
4	E	103	LYS	N-CA-CB	7.99	122.60	110.70
2	B	1034	VAL	N-CA-C	7.99	119.73	110.62
3	C	95	CYS	N-CA-CB	-7.99	98.01	111.27
5	F	119	ARG	O-C-N	7.99	132.09	122.27
1	A	12	ARG	CG-CD-NE	-7.98	94.44	112.00
1	A	128	ILE	N-CA-C	-7.98	98.11	110.09
1	A	219	PHE	N-CA-C	-7.98	103.33	113.23
1	A	512	VAL	N-CA-CB	-7.98	101.90	111.00
1	A	916	GLY	CA-C-N	7.98	131.19	120.65
1	A	916	GLY	C-N-CA	7.98	131.19	120.65
2	B	177	LYS	N-CA-C	-7.98	102.52	111.14
1	A	1284	MET	CG-SD-CE	-7.98	83.34	100.90
2	B	736	THR	N-CA-CB	7.98	122.21	110.56
1	A	1170	ILE	N-CA-C	-7.98	102.31	111.00
3	C	183	TRP	N-CA-C	-7.98	98.00	110.36
3	C	4	GLU	N-CA-C	7.97	127.78	110.80
2	B	536	VAL	CA-C-O	-7.97	111.33	120.65
7	I	40	SER	CA-CB-OG	7.97	127.03	111.10
2	B	632	ARG	CA-C-O	7.96	129.77	120.69
1	A	386	ASP	CB-CG-OD1	7.96	136.71	118.40
2	B	887	HIS	CA-CB-CG	7.96	121.76	113.80
3	C	163	ILE	CA-C-O	-7.96	112.84	121.28
1	A	1167	GLU	N-CA-C	-7.96	102.30	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	384	ASN	N-CA-CB	-7.96	97.85	110.98
1	A	125	ALA	N-CA-C	-7.96	102.21	112.23
1	A	864	ILE	CA-C-O	-7.95	112.82	120.30
1	A	501	LEU	N-CA-C	-7.95	102.69	111.36
1	A	858	ASN	CA-C-O	-7.95	112.80	121.94
2	B	215	GLN	N-CA-C	7.95	122.19	109.24
5	F	135	ARG	NE-CZ-NH2	7.95	126.35	119.20
9	K	64	GLU	CG-CD-OE2	-7.95	100.12	118.40
1	A	1030	ARG	CA-C-O	-7.94	111.73	121.02
6	H	26	ILE	O-C-N	7.94	131.62	122.81
1	A	1194	ARG	CA-CB-CG	7.94	129.98	114.10
4	E	179	GLN	CB-CA-C	-7.93	95.53	110.51
2	B	795	ILE	CB-CA-C	-7.93	98.76	110.33
1	A	994	GLN	O-C-N	-7.92	113.72	122.12
1	A	1000	LEU	CD1-CG-CD2	-7.92	93.36	110.80
2	B	389	ALA	N-CA-C	7.92	121.01	111.82
2	B	408	LEU	N-CA-C	7.92	123.27	109.80
4	E	80	VAL	N-CA-C	-7.92	97.16	108.65
1	A	123	ARG	O-C-N	7.92	132.01	122.27
2	B	136	THR	N-CA-CB	7.92	123.06	110.23
1	A	237	THR	O-C-N	7.92	133.12	122.59
2	B	816	GLU	CG-CD-OE2	-7.92	100.19	118.40
4	E	106	GLN	N-CA-C	-7.92	102.88	112.54
1	A	98	LYS	CG-CD-CE	-7.91	93.10	111.30
7	I	3	THR	CA-C-N	7.91	136.65	121.54
7	I	3	THR	C-N-CA	7.91	136.65	121.54
3	C	172	PRO	O-C-N	7.91	133.32	122.64
9	K	114	LEU	CB-CA-C	7.91	125.13	110.10
7	I	55	THR	N-CA-CB	-7.91	97.93	110.98
1	A	1269	GLU	CB-CA-C	-7.91	96.51	109.56
1	A	368	LYS	O-C-N	-7.91	113.87	122.09
2	B	35	SER	CB-CA-C	-7.90	97.25	110.68
2	B	373	ARG	CB-CG-CD	7.90	129.47	111.30
3	C	39	ALA	N-CA-CB	-7.90	100.09	110.59
1	A	803	SER	N-CA-CB	-7.90	99.48	110.38
1	A	1447	GLU	N-CA-C	-7.89	101.48	112.45
2	B	939	THR	CB-CA-C	-7.89	100.86	109.85
4	E	204	THR	CA-CB-OG1	7.88	121.43	109.60
1	A	1260	LEU	O-C-N	-7.88	113.89	122.09
2	B	94	LYS	CA-C-O	-7.88	112.51	121.81
1	A	475	THR	N-CA-C	7.88	119.50	111.07
2	B	578	THR	N-CA-C	7.88	121.49	108.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	I	33	SER	N-CA-C	-7.88	100.76	111.87
2	B	601	ARG	NE-CZ-NH1	-7.87	113.63	121.50
2	B	498	THR	CA-CB-OG1	7.87	121.41	109.60
1	A	1172	LEU	CA-C-O	-7.87	108.09	120.37
1	A	1208	THR	CB-CA-C	-7.87	96.55	109.53
2	B	880	THR	N-CA-C	7.87	124.11	107.67
1	A	1150	SER	N-CA-C	7.86	122.33	110.14
3	C	225	ALA	CA-C-O	-7.86	112.17	120.58
1	A	1187	GLN	CA-C-N	7.86	133.23	122.77
1	A	1187	GLN	C-N-CA	7.86	133.23	122.77
2	B	90	ILE	CB-CA-C	-7.86	98.40	111.29
3	C	153	LEU	N-CA-CB	-7.86	97.96	110.77
1	A	864	ILE	CA-CB-CG1	7.86	123.76	110.40
5	F	107	VAL	CA-C-N	-7.86	110.15	122.49
5	F	107	VAL	C-N-CA	-7.86	110.15	122.49
9	K	46	ILE	O-C-N	-7.86	113.84	121.94
2	B	735	ALA	N-CA-C	7.86	122.01	108.02
3	C	128	ASN	CA-C-N	7.86	130.91	122.11
3	C	128	ASN	C-N-CA	7.86	130.91	122.11
1	A	411	ASP	CA-C-O	-7.85	111.78	120.81
1	A	896	ARG	NE-CZ-NH2	-7.85	112.13	119.20
7	I	26	LEU	CA-C-O	-7.85	112.29	121.16
1	A	968	GLN	N-CA-CB	7.85	123.67	110.32
7	I	93	LYS	CA-CB-CG	7.85	129.79	114.10
9	K	15	GLY	O-C-N	-7.85	112.89	122.23
1	A	620	LYS	N-CA-C	7.85	120.82	111.33
1	A	1271	ILE	CG1-CB-CG2	-7.85	87.16	110.70
7	I	118	ARG	CD-NE-CZ	7.85	135.38	124.40
2	B	810	GLU	CB-CA-C	7.84	123.20	110.88
2	B	993	THR	CA-C-O	-7.84	112.03	121.28
3	C	17	ASN	CB-CA-C	-7.84	96.03	110.62
9	K	4	PRO	CB-CA-C	7.84	122.72	110.25
1	A	706	HIS	N-CA-CB	7.84	123.74	110.49
1	A	96	ILE	CG1-CB-CG2	-7.84	87.19	110.70
2	B	612	GLU	N-CA-CB	-7.84	99.12	110.56
1	A	1242	VAL	CA-CB-CG2	-7.83	97.08	110.40
2	B	118	ARG	CD-NE-CZ	7.83	135.37	124.40
5	F	82	THR	CB-CA-C	-7.83	96.66	109.27
1	A	1069	ALA	CA-C-O	-7.83	112.12	120.42
5	F	150	GLU	N-CA-C	7.83	120.90	111.82
1	A	980	ASP	CB-CA-C	-7.83	95.92	110.01
1	A	596	THR	CB-CA-C	-7.83	94.64	113.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	667	GLY	N-CA-C	7.83	123.86	113.37
9	K	26	LYS	CG-CD-CE	7.83	129.30	111.30
2	B	90	ILE	N-CA-C	7.82	125.61	109.34
1	A	56	PRO	O-C-N	7.82	133.20	122.64
1	A	1211	GLN	CA-C-O	-7.81	112.65	120.70
1	A	505	CYS	CA-C-O	7.80	128.48	119.35
2	B	48	LEU	CB-CA-C	-7.80	97.88	110.84
1	A	590	ARG	NE-CZ-NH2	-7.80	112.18	119.20
2	B	316	PRO	CA-C-N	7.80	131.05	120.44
2	B	316	PRO	C-N-CA	7.80	131.05	120.44
5	F	138	LEU	CD1-CG-CD2	-7.80	93.64	110.80
3	C	27	LEU	CA-C-N	-7.80	109.05	120.28
3	C	27	LEU	C-N-CA	-7.80	109.05	120.28
5	F	106	PRO	N-CD-CG	7.80	114.89	103.20
3	C	263	THR	O-C-N	-7.79	113.15	122.11
2	B	293	PRO	CB-CA-C	-7.79	100.85	111.21
9	K	110	ASN	CB-CA-C	7.79	124.96	110.70
2	B	687	GLU	N-CA-C	7.79	122.46	113.19
7	I	75	CYS	CB-CA-C	-7.79	97.81	109.26
2	B	228	LYS	CA-C-O	-7.78	111.71	120.66
2	B	605	ARG	N-CA-C	7.78	122.34	113.01
1	A	584	ASN	CA-C-N	-7.78	111.84	122.26
1	A	584	ASN	C-N-CA	-7.78	111.84	122.26
1	A	1060	PRO	O-C-N	7.78	132.44	123.03
1	A	1381	LEU	CB-CA-C	-7.78	98.08	111.30
8	J	45	CYS	CA-C-O	7.78	129.16	121.00
3	C	22	LEU	CA-C-O	-7.77	112.55	121.72
1	A	1335	ILE	N-CA-C	-7.77	102.96	110.42
3	C	61	GLU	CA-C-N	-7.77	109.87	120.44
3	C	61	GLU	C-N-CA	-7.77	109.87	120.44
1	A	560	ILE	O-C-N	-7.76	112.25	121.10
3	C	73	GLN	CG-CD-NE2	7.76	128.04	116.40
9	K	52	ASN	CA-C-N	7.76	133.77	121.66
9	K	52	ASN	C-N-CA	7.76	133.77	121.66
5	F	90	ARG	CA-C-O	-7.76	112.33	120.55
2	B	1083	ALA	N-CA-CB	-7.76	99.14	110.70
1	A	861	GLY	N-CA-C	-7.76	104.33	115.27
2	B	632	ARG	CA-C-N	-7.75	110.16	122.64
2	B	632	ARG	C-N-CA	-7.75	110.16	122.64
2	B	1019	SER	N-CA-CB	7.75	121.75	110.20
6	H	82	PRO	N-CA-C	-7.75	96.50	112.47
2	B	1103	ILE	CB-CA-C	-7.75	98.58	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	238	CYS	CA-CB-SG	-7.75	96.58	114.40
3	C	133	ILE	CB-CA-C	-7.74	101.08	111.15
2	B	367	LEU	CA-C-N	7.74	130.97	120.44
2	B	367	LEU	C-N-CA	7.74	130.97	120.44
2	B	434	ARG	CA-CB-CG	7.74	129.58	114.10
1	A	1025	ARG	NE-CZ-NH2	7.74	126.17	119.20
1	A	516	SER	O-C-N	-7.74	111.66	122.26
4	E	207	ARG	NE-CZ-NH1	7.74	129.24	121.50
1	A	434	ARG	CD-NE-CZ	7.74	135.23	124.40
1	A	1013	ASP	N-CA-CB	7.73	121.28	110.07
2	B	633	VAL	CG1-CB-CG2	-7.73	93.79	110.80
2	B	230	ALA	N-CA-C	7.73	126.89	109.81
1	A	292	ALA	N-CA-C	7.73	119.34	111.07
2	B	612	GLU	OE1-CD-OE2	7.73	141.45	122.90
6	H	15	VAL	O-C-N	7.73	130.20	122.71
6	H	121	LEU	N-CA-C	-7.72	97.43	109.25
1	A	720	ARG	NE-CZ-NH2	7.72	126.15	119.20
6	H	49	VAL	CB-CA-C	-7.72	98.62	111.29
1	A	1140	HIS	ND1-CE1-NE2	-7.72	100.68	108.40
1	A	884	ASP	CB-CG-OD2	7.72	136.15	118.40
5	F	110	ASP	O-C-N	7.72	132.51	123.02
7	I	31	THR	N-CA-C	7.72	122.77	113.12
9	K	86	ALA	N-CA-C	7.72	122.46	112.89
2	B	549	THR	N-CA-CB	-7.71	98.78	111.66
2	B	966	VAL	CG1-CB-CG2	-7.71	93.83	110.80
1	A	361	LEU	CB-CA-C	-7.71	97.94	110.74
1	A	410	GLY	N-CA-C	-7.71	104.68	115.32
1	A	895	LYS	N-CA-C	7.71	119.69	111.28
9	K	109	TRP	N-CA-CB	-7.71	98.42	110.30
1	A	1345	ARG	CB-CA-C	-7.71	97.99	110.79
2	B	816	GLU	CG-CD-OE1	7.71	136.13	118.40
6	H	131	ASN	CA-CB-CG	7.71	120.31	112.60
1	A	110	CYS	CB-CA-C	-7.70	98.73	110.90
2	B	793	ALA	CA-C-O	-7.70	112.42	120.89
1	A	1335	ILE	CA-C-O	-7.70	113.01	121.17
4	E	74	ASP	CA-C-O	7.70	133.29	119.36
1	A	373	THR	N-CA-CB	-7.70	98.78	110.33
1	A	1222	ASN	O-C-N	7.69	130.00	122.07
2	B	689	LEU	N-CA-C	7.69	122.77	113.23
1	A	1222	ASN	CA-C-O	-7.69	112.75	120.82
2	B	1168	LEU	CA-C-O	-7.68	112.47	121.46
1	A	481	ASP	CA-C-O	-7.68	111.25	121.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	K	62	LYS	N-CA-C	7.68	120.90	108.76
9	K	26	LYS	N-CA-C	7.68	120.54	111.71
3	C	189	THR	N-CA-C	-7.68	97.33	109.23
2	B	633	VAL	CA-C-O	-7.68	111.73	121.48
4	E	25	ASP	N-CA-CB	7.68	122.12	110.30
6	H	144	ILE	N-CA-C	-7.68	98.22	108.35
1	A	1127	ASP	CA-CB-CG	7.67	120.27	112.60
8	J	6	ARG	NE-CZ-NH1	-7.67	113.83	121.50
1	A	1214	GLU	O-C-N	7.67	132.71	122.43
2	B	642	ASP	CA-C-N	-7.67	107.89	121.70
2	B	642	ASP	C-N-CA	-7.67	107.89	121.70
4	E	155	ARG	O-C-N	7.67	132.37	122.93
6	H	130	ARG	CA-C-O	7.67	130.22	121.32
2	B	339	THR	OG1-CB-CG2	-7.67	93.97	109.30
3	C	43	THR	N-CA-CB	-7.67	99.13	111.24
7	I	115	LYS	N-CA-C	-7.66	101.05	111.55
2	B	414	ALA	N-CA-C	-7.66	94.48	110.80
1	A	283	GLY	CA-C-O	-7.66	115.27	122.39
4	E	134	THR	CA-C-O	-7.66	112.51	121.16
5	F	83	PRO	CA-C-O	-7.66	108.68	118.86
1	A	795	GLU	CB-CG-CD	7.65	125.61	112.60
1	A	1107	VAL	CG1-CB-CG2	-7.65	93.97	110.80
1	A	1136	SER	CB-CA-C	7.65	125.08	109.55
10	L	63	ARG	N-CA-CB	7.65	121.85	109.69
1	A	495	GLU	N-CA-CB	-7.65	98.53	110.30
2	B	499	ASN	CB-CA-C	-7.64	96.81	109.80
3	C	230	MET	N-CA-C	7.64	121.94	109.94
1	A	1158	PRO	N-CA-C	-7.64	104.63	114.03
2	B	983	ARG	CA-CB-CG	7.64	129.37	114.10
1	A	1116	LEU	N-CA-C	-7.63	97.30	109.59
2	B	838	SER	N-CA-CB	-7.63	98.41	111.69
1	A	926	GLN	N-CA-CB	7.63	121.34	110.12
2	B	513	GLN	O-C-N	7.63	131.49	122.94
7	I	1	MET	CA-CB-CG	7.63	129.37	114.10
8	J	2	ILE	CB-CA-C	-7.63	97.44	111.18
1	A	1099	PRO	CB-CA-C	-7.63	100.54	111.68
2	B	513	GLN	CA-CB-CG	7.63	129.36	114.10
1	A	454	SER	N-CA-C	-7.62	103.98	113.20
4	E	204	THR	N-CA-CB	-7.62	98.76	110.42
1	A	27	VAL	CB-CA-C	-7.62	102.06	112.04
1	A	1064	VAL	N-CA-CB	-7.62	95.05	111.05
3	C	210	GLU	CG-CD-OE2	-7.62	100.88	118.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	539	LEU	CA-C-O	7.61	129.60	120.92
1	A	407	ARG	NH1-CZ-NH2	7.61	129.19	119.30
7	I	97	MET	N-CA-C	-7.61	102.22	112.26
4	E	149	LEU	CB-CG-CD1	7.61	133.52	110.70
9	K	81	TYR	CA-C-O	-7.61	112.41	120.40
1	A	15	LYS	N-CA-CB	-7.61	100.10	110.67
1	A	150	THR	N-CA-C	-7.61	104.13	113.41
3	C	116	LYS	CD-CE-NZ	-7.60	87.57	111.90
1	A	1385	THR	N-CA-C	7.60	132.28	111.00
1	A	305	ASP	OD1-CG-OD2	-7.60	104.66	122.90
1	A	150	THR	OG1-CB-CG2	-7.60	94.10	109.30
6	H	95	TYR	O-C-N	-7.60	112.93	123.34
1	A	802	ASN	N-CA-C	7.59	120.55	110.53
2	B	242	SER	O-C-N	-7.59	114.38	122.96
6	H	145	ARG	O-C-N	7.59	132.08	123.27
2	B	785	TYR	O-C-N	7.59	133.14	122.36
4	E	1	MET	CA-C-N	7.59	136.03	121.54
4	E	1	MET	C-N-CA	7.59	136.03	121.54
1	A	291	GLU	CA-CB-CG	7.59	129.27	114.10
1	A	277	GLU	CA-CB-CG	7.58	129.27	114.10
5	F	79	ARG	CA-CB-CG	7.58	129.26	114.10
1	A	635	ARG	NH1-CZ-NH2	7.58	129.16	119.30
1	A	770	VAL	CA-C-N	7.58	132.88	122.34
1	A	770	VAL	C-N-CA	7.58	132.88	122.34
1	A	1301	GLU	CG-CD-OE2	-7.58	100.97	118.40
9	K	65	HIS	CA-C-O	7.58	126.71	119.13
1	A	504	LEU	CA-CB-CG	7.58	142.82	116.30
2	B	58	THR	OG1-CB-CG2	-7.58	94.15	109.30
2	B	136	THR	O-C-N	7.57	131.95	123.16
1	A	5	GLN	N-CA-CB	7.57	121.96	110.45
1	A	895	LYS	N-CA-CB	7.57	121.25	110.12
2	B	678	GLU	CB-CG-CD	7.57	125.47	112.60
4	E	60	PHE	CA-C-N	-7.57	110.34	122.53
4	E	60	PHE	C-N-CA	-7.57	110.34	122.53
1	A	476	SER	CA-CB-OG	-7.57	95.96	111.10
3	C	143	LEU	CB-CG-CD2	-7.57	87.99	110.70
1	A	501	LEU	CA-C-N	-7.57	108.34	121.66
1	A	501	LEU	C-N-CA	-7.57	108.34	121.66
1	A	1274	ARG	CB-CA-C	-7.57	96.94	109.80
1	A	824	LEU	CA-C-N	-7.57	108.45	120.55
1	A	824	LEU	C-N-CA	-7.57	108.45	120.55
8	J	26	GLN	CB-CA-C	7.57	121.07	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1198	TYR	N-CA-C	-7.56	102.98	111.07
2	B	1223	ASP	CA-C-N	7.56	135.31	121.70
2	B	1223	ASP	C-N-CA	7.56	135.31	121.70
3	C	68	GLY	CA-C-N	-7.56	106.84	121.58
3	C	68	GLY	C-N-CA	-7.56	106.84	121.58
10	L	38	LEU	N-CA-C	-7.56	98.36	109.63
3	C	205	LYS	CA-C-O	-7.56	112.88	120.82
3	C	122	SER	N-CA-C	-7.56	97.70	108.96
1	A	1289	ARG	NH1-CZ-NH2	7.55	129.12	119.30
2	B	968	VAL	N-CA-C	7.55	119.48	108.53
1	A	1003	LYS	CA-CB-CG	-7.55	99.00	114.10
5	F	72	LYS	CA-C-N	7.55	135.96	121.54
5	F	72	LYS	C-N-CA	7.55	135.96	121.54
9	K	32	VAL	N-CA-CB	-7.55	102.44	112.10
1	A	116	ASP	N-CA-CB	-7.54	101.81	109.51
1	A	1066	VAL	CA-C-O	7.54	129.12	121.27
1	A	1383	SER	CA-CB-OG	-7.54	96.01	111.10
2	B	538	ASN	N-CA-CB	-7.54	98.14	110.81
1	A	1215	ARG	CA-C-N	-7.54	110.91	120.56
1	A	1215	ARG	C-N-CA	-7.54	110.91	120.56
1	A	1013	ASP	CA-C-O	-7.54	112.94	120.70
1	A	885	THR	CA-CB-CG2	7.54	123.31	110.50
2	B	1021	MET	CA-C-N	-7.54	112.69	122.79
2	B	1021	MET	C-N-CA	-7.54	112.69	122.79
1	A	907	THR	CB-CA-C	-7.53	95.22	113.15
1	A	1122	PRO	N-CD-CG	7.53	114.50	103.20
1	A	61	ILE	N-CA-CB	7.53	123.88	111.38
3	C	33	LEU	N-CA-C	-7.53	102.22	111.40
1	A	143	LYS	CA-C-N	7.52	130.36	120.28
1	A	143	LYS	C-N-CA	7.52	130.36	120.28
2	B	618	ASP	CB-CA-C	7.52	122.84	110.74
2	B	723	VAL	N-CA-CB	7.51	123.64	110.49
2	B	786	ASN	CA-CB-CG	-7.51	105.08	112.60
3	C	263	THR	N-CA-CB	-7.51	97.53	109.78
7	I	107	SER	CA-C-O	7.51	130.13	120.81
1	A	206	GLU	N-CA-C	-7.51	103.06	112.90
2	B	736	THR	CA-C-N	-7.51	110.55	122.79
2	B	736	THR	C-N-CA	-7.51	110.55	122.79
8	J	56	LEU	CD1-CG-CD2	-7.51	94.28	110.80
2	B	353	LYS	CD-CE-NZ	7.51	135.93	111.90
10	L	68	GLU	CG-CD-OE1	7.51	135.67	118.40
1	A	1372	VAL	CG1-CB-CG2	-7.50	94.29	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	323	VAL	O-C-N	-7.50	113.51	122.06
5	F	75	PRO	CB-CA-C	-7.50	101.78	111.46
3	C	172	PRO	N-CD-CG	7.50	114.45	103.20
2	B	104	GLU	CA-C-O	7.50	129.73	121.56
1	A	106	VAL	CA-C-O	-7.50	114.52	121.72
1	A	1197	LEU	N-CA-C	-7.50	98.03	109.95
1	A	1405	THR	OG1-CB-CG2	-7.50	94.31	109.30
2	B	895	ASP	CA-C-O	-7.50	109.52	119.11
2	B	209	GLU	N-CA-C	7.50	121.68	109.76
2	B	602	THR	O-C-N	7.49	130.06	122.12
2	B	969	ARG	N-CA-C	7.49	121.66	109.59
6	H	97	MET	N-CA-CB	-7.49	99.54	110.70
1	A	475	THR	N-CA-CB	-7.49	99.15	110.01
1	A	1209	MET	CB-CA-C	-7.48	99.02	110.92
4	E	36	GLU	CB-CG-CD	7.48	125.32	112.60
2	B	237	VAL	CB-CA-C	-7.48	97.66	110.30
1	A	1367	HIS	O-C-N	-7.47	112.22	122.46
9	K	113	THR	CA-C-N	7.47	135.15	121.70
9	K	113	THR	C-N-CA	7.47	135.15	121.70
1	A	1385	THR	N-CA-CB	-7.47	98.80	111.50
7	I	22	ASN	CB-CA-C	-7.47	98.09	110.72
10	L	27	LEU	CA-CB-CG	7.47	142.46	116.30
3	C	97	VAL	N-CA-C	7.47	119.86	109.55
4	E	25	ASP	OD1-CG-OD2	-7.47	104.97	122.90
2	B	974	PRO	CA-C-O	-7.47	113.07	121.43
1	A	962	ARG	CG-CD-NE	-7.46	95.58	112.00
1	A	1135	ARG	O-C-N	-7.46	113.49	122.22
2	B	1071	VAL	N-CA-C	-7.46	97.53	108.87
2	B	937	ALA	N-CA-C	7.46	119.39	110.44
2	B	180	TYR	CA-C-N	-7.46	110.24	122.54
2	B	180	TYR	C-N-CA	-7.46	110.24	122.54
5	F	108	PHE	O-C-N	-7.46	112.53	122.22
4	E	109	ILE	O-C-N	7.45	131.31	123.26
1	A	1148	ILE	CB-CA-C	-7.45	102.28	112.04
2	B	1212	ILE	N-CA-C	7.45	119.31	108.58
2	B	434	ARG	CG-CD-NE	7.45	128.38	112.00
1	A	633	VAL	O-C-N	-7.45	114.35	121.87
2	B	446	LEU	CA-C-N	7.45	135.76	121.54
2	B	446	LEU	C-N-CA	7.45	135.76	121.54
1	A	280	GLU	N-CA-C	-7.44	103.30	112.38
2	B	936	ASP	CA-C-O	-7.44	112.44	120.92
3	C	54	ASN	CA-C-O	7.44	128.69	119.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	I	5	ARG	NE-CZ-NH2	7.44	125.90	119.20
7	I	58	VAL	N-CA-C	-7.44	96.74	107.98
2	B	574	SER	N-CA-C	7.44	122.03	108.94
2	B	705	MET	CG-SD-CE	-7.44	84.53	100.90
1	A	1289	ARG	N-CA-C	-7.44	95.91	108.26
2	B	384	ARG	O-C-N	-7.44	114.36	122.09
2	B	990	ILE	CA-CB-CG1	7.43	123.04	110.40
4	E	127	ILE	O-C-N	7.43	129.57	121.10
1	A	809	THR	N-CA-C	7.43	120.90	110.20
2	B	649	LYS	N-CA-C	-7.43	97.13	109.46
2	B	1155	SER	CA-CB-OG	7.43	125.96	111.10
3	C	75	MET	N-CA-CB	-7.43	98.78	110.22
1	A	918	GLU	N-CA-C	7.42	121.92	113.01
2	B	566	LEU	N-CA-C	7.42	120.02	111.11
7	I	18	GLU	CB-CA-C	7.42	121.97	109.80
1	A	24	PRO	N-CD-CG	7.42	114.33	103.20
1	A	30	ILE	CA-C-O	7.42	125.84	119.38
1	A	1320	PRO	CA-C-O	-7.42	112.88	121.34
2	B	1043	ASP	N-CA-CB	7.42	122.00	110.21
1	A	538	ASP	CA-C-N	-7.41	112.29	122.30
1	A	538	ASP	C-N-CA	-7.41	112.29	122.30
1	A	297	GLN	CA-CB-CG	7.41	128.92	114.10
1	A	959	ASN	N-CA-C	-7.41	94.05	107.98
2	B	797	TYR	CA-C-O	-7.41	113.04	120.82
2	B	1043	ASP	N-CA-C	-7.41	96.48	108.41
3	C	50	GLU	N-CA-C	-7.41	96.24	108.76
8	J	46	CYS	CA-C-O	-7.41	112.63	120.63
1	A	1040	GLN	N-CA-C	-7.41	102.58	111.69
2	B	1179	GLN	CA-C-O	7.41	128.45	120.38
1	A	596	THR	CA-CB-OG1	7.41	120.71	109.60
2	B	477	ALA	CB-CA-C	7.41	121.61	110.50
2	B	654	ARG	NE-CZ-NH1	-7.41	114.09	121.50
3	C	186	LEU	N-CA-CB	-7.41	97.73	110.32
5	F	151	LEU	CA-C-O	-7.40	112.61	121.05
1	A	432	VAL	N-CA-C	7.40	119.05	107.28
1	A	751	SER	O-C-N	7.40	132.87	122.36
1	A	874	ASP	N-CA-C	7.40	121.53	109.76
4	E	137	GLU	O-C-N	-7.40	113.71	122.15
1	A	161	LEU	CA-C-O	-7.40	112.65	121.60
1	A	705	LYS	CA-CB-CG	7.40	128.89	114.10
6	H	58	THR	N-CA-CB	-7.40	99.11	110.65
3	C	26	ASP	CB-CG-OD2	-7.39	101.39	118.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1273	LEU	N-CA-C	7.39	120.78	111.24
1	A	646	PHE	CA-C-N	-7.39	111.03	120.34
1	A	646	PHE	C-N-CA	-7.39	111.03	120.34
1	A	1365	TYR	CA-C-O	-7.39	112.64	120.92
2	B	785	TYR	N-CA-CB	7.39	121.41	110.33
1	A	792	TYR	N-CA-C	7.39	121.14	112.72
2	B	463	THR	CB-CA-C	-7.39	97.18	110.70
3	C	211	ASP	N-CA-C	-7.39	98.91	109.62
1	A	917	SER	N-CA-CB	-7.38	99.13	109.91
2	B	846	ILE	O-C-N	7.38	129.03	121.87
1	A	532	ARG	NE-CZ-NH2	-7.38	112.56	119.20
2	B	165	VAL	N-CA-CB	7.38	123.41	111.23
10	L	70	ARG	CA-CB-CG	-7.38	99.34	114.10
9	K	38	GLU	N-CA-C	7.38	120.38	109.24
5	F	90	ARG	CB-CG-CD	7.38	128.27	111.30
1	A	717	ASN	CB-CG-ND2	-7.38	105.33	116.40
1	A	1412	ALA	N-CA-C	-7.38	103.24	111.28
1	A	1032	LEU	CB-CG-CD2	7.38	132.83	110.70
3	C	170	TRP	CA-C-N	-7.38	110.29	121.87
3	C	170	TRP	C-N-CA	-7.38	110.29	121.87
2	B	606	LYS	N-CA-CB	-7.37	99.47	110.61
1	A	1191	TRP	CA-C-O	7.37	129.40	120.92
1	A	416	ARG	CB-CA-C	7.37	122.70	109.29
1	A	511	ILE	CG1-CB-CG2	-7.37	88.60	110.70
2	B	967	ARG	NE-CZ-NH2	7.36	125.83	119.20
1	A	351	THR	N-CA-CB	7.36	123.14	111.43
1	A	576	GLN	CB-CA-C	-7.36	96.54	110.67
2	B	249	ARG	CA-CB-CG	7.36	128.82	114.10
2	B	801	LYS	N-CA-CB	7.36	118.93	110.03
3	C	86	CYS	CA-CB-SG	7.36	131.32	114.40
2	B	624	LEU	CB-CA-C	-7.36	99.51	110.62
9	K	16	GLU	CA-C-O	-7.36	112.68	121.66
3	C	70	ILE	CB-CA-C	-7.36	97.97	111.36
1	A	289	ILE	CA-C-O	-7.35	111.59	120.78
3	C	25	VAL	CB-CA-C	-7.35	97.95	111.18
9	K	64	GLU	CG-CD-OE1	7.35	135.30	118.40
1	A	651	LYS	CB-CA-C	7.35	122.94	110.74
7	I	94	ASP	CA-C-O	7.35	128.06	119.32
1	A	159	THR	CB-CA-C	-7.35	95.80	110.42
6	H	20	TYR	N-CA-CB	-7.35	99.86	110.36
1	A	958	VAL	N-CA-C	7.34	124.62	109.34
7	I	113	ASP	OD1-CG-OD2	-7.34	105.27	122.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1017	ILE	CA-CB-CG1	-7.34	97.92	110.40
6	H	93	TYR	N-CA-C	7.34	120.93	110.14
1	A	984	LYS	CA-CB-CG	7.34	128.78	114.10
2	B	1183	LYS	CB-CA-C	7.34	125.03	110.42
3	C	132	PRO	CA-C-O	-7.34	113.32	121.32
8	J	39	LEU	N-CA-CB	7.34	121.77	110.46
2	B	1103	ILE	N-CA-CB	7.34	123.34	111.23
2	B	274	PRO	N-CD-CG	7.34	114.21	103.20
2	B	415	GLN	N-CA-C	-7.34	102.30	111.11
2	B	418	LYS	N-CA-C	-7.34	102.89	111.03
4	E	171	LYS	N-CA-C	7.34	120.00	110.53
5	F	123	LYS	CA-C-O	-7.33	113.05	120.90
1	A	441	PRO	CA-C-N	-7.33	113.06	123.03
1	A	441	PRO	C-N-CA	-7.33	113.06	123.03
1	A	820	GLY	CA-C-O	7.33	128.32	120.40
1	A	376	TYR	CB-CA-C	-7.33	99.52	109.42
1	A	549	MET	CG-SD-CE	7.33	117.03	100.90
8	J	36	LEU	N-CA-C	-7.33	103.32	111.82
1	A	748	MET	CA-C-N	-7.33	108.48	120.72
1	A	748	MET	C-N-CA	-7.33	108.48	120.72
2	B	701	ILE	CA-C-O	-7.33	111.62	120.78
1	A	807	GLY	CA-C-O	7.32	127.28	122.23
2	B	404	LYS	N-CA-C	-7.32	98.61	109.81
5	F	73	ALA	N-CA-C	7.32	126.40	110.80
5	F	111	LEU	CA-C-N	-7.32	111.10	122.08
5	F	111	LEU	C-N-CA	-7.32	111.10	122.08
2	B	566	LEU	O-C-N	-7.32	114.47	122.09
2	B	982	SER	CA-C-N	-7.32	110.72	122.66
2	B	982	SER	C-N-CA	-7.32	110.72	122.66
4	E	136	ASN	CB-CA-C	-7.32	97.16	109.53
1	A	285	PRO	N-CA-CB	7.32	109.69	103.25
3	C	207	CYS	N-CA-C	7.31	122.57	112.04
2	B	622	LYS	CA-CB-CG	7.31	128.72	114.10
2	B	910	VAL	N-CA-C	7.31	119.96	109.51
7	I	59	VAL	N-CA-CB	-7.31	100.19	112.47
1	A	596	THR	CA-CB-CG2	-7.31	98.08	110.50
3	C	6	PRO	CA-C-O	7.31	129.91	120.85
1	A	765	VAL	CB-CA-C	-7.30	102.45	112.24
7	I	43	VAL	N-CA-C	7.30	124.12	113.39
7	I	98	VAL	CA-CB-CG2	-7.30	97.99	110.40
2	B	165	VAL	N-CA-C	7.30	124.52	109.34
2	B	967	ARG	NE-CZ-NH1	-7.30	114.20	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1203	ASN	N-CA-C	7.29	119.02	111.14
2	B	529	GLU	CB-CG-CD	7.29	125.00	112.60
2	B	731	VAL	CA-C-O	7.29	128.05	120.39
1	A	789	LYS	CD-CE-NZ	-7.29	88.58	111.90
2	B	135	ARG	CA-C-N	7.29	132.88	122.09
2	B	135	ARG	C-N-CA	7.29	132.88	122.09
2	B	593	PRO	CB-CG-CD	-7.29	82.78	106.10
3	C	122	SER	N-CA-CB	7.29	123.08	111.56
4	E	17	ARG	CG-CD-NE	-7.29	95.97	112.00
1	A	831	THR	CA-C-N	-7.29	108.12	120.58
1	A	831	THR	C-N-CA	-7.29	108.12	120.58
2	B	1211	ASN	CB-CA-C	-7.29	99.48	111.36
1	A	486	GLU	CG-CD-OE1	7.29	135.16	118.40
3	C	253	LYS	CB-CA-C	-7.28	97.16	110.63
3	C	245	VAL	CA-CB-CG1	7.28	122.77	110.40
7	I	93	LYS	O-C-N	7.28	129.84	122.12
1	A	1002	GLY	N-CA-C	7.28	130.42	113.18
2	B	252	SER	N-CA-CB	7.28	121.23	109.95
3	C	63	ILE	N-CA-C	-7.27	103.20	110.62
2	B	787	VAL	N-CA-C	-7.27	106.13	113.47
1	A	623	GLY	N-CA-C	-7.26	102.62	112.57
4	E	62	ALA	CA-C-O	-7.26	112.10	120.31
4	E	125	PRO	N-CA-CB	7.26	108.09	103.23
1	A	808	LEU	O-C-N	-7.26	114.75	123.10
1	A	982	THR	CA-CB-OG1	-7.26	98.72	109.60
1	A	1116	LEU	O-C-N	-7.26	113.99	123.21
2	B	612	GLU	CB-CA-C	7.26	122.82	110.56
1	A	474	VAL	CA-C-O	7.25	128.25	119.54
1	A	1029	ARG	N-CA-C	7.25	118.83	111.07
1	A	1024	SER	CA-CB-OG	7.25	125.60	111.10
2	B	691	GLU	N-CA-CB	-7.25	99.55	111.66
2	B	734	HIS	N-CA-C	-7.25	102.86	112.72
7	I	105	SER	CA-C-N	7.25	133.07	121.98
7	I	105	SER	C-N-CA	7.25	133.07	121.98
1	A	910	PRO	CA-N-CD	7.25	122.14	112.00
2	B	385	LEU	CB-CG-CD1	-7.25	88.96	110.70
2	B	536	VAL	O-C-N	7.25	131.78	122.94
2	B	594	ALA	CA-C-O	-7.24	111.24	119.79
7	I	21	GLU	N-CA-C	7.24	119.25	111.36
1	A	1277	GLU	N-CA-CB	7.24	120.76	109.83
1	A	784	LEU	CA-C-N	7.24	128.48	120.45
1	A	784	LEU	C-N-CA	7.24	128.48	120.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	272	THR	OG1-CB-CG2	-7.24	94.83	109.30
2	B	784	ASN	CB-CA-C	7.24	120.12	111.22
1	A	226	GLU	N-CA-CB	7.23	123.20	110.18
1	A	1284	MET	CA-C-O	-7.23	113.15	121.47
1	A	1297	GLU	CB-CG-CD	7.23	124.89	112.60
1	A	1356	ILE	CG1-CB-CG2	-7.23	89.00	110.70
2	B	989	THR	N-CA-CB	7.23	121.84	110.56
1	A	117	GLU	CG-CD-OE2	-7.23	101.77	118.40
2	B	1074	ASN	CA-C-O	7.23	130.85	120.51
2	B	1139	ILE	CA-C-O	-7.23	112.66	120.47
2	B	1085	ILE	CA-C-O	7.23	128.14	120.48
1	A	469	ARG	CG-CD-NE	-7.23	96.10	112.00
1	A	1281	ARG	N-CA-C	7.22	120.69	110.50
2	B	362	PRO	N-CA-C	7.22	123.30	113.98
3	C	94	LYS	CA-CB-CG	7.22	128.55	114.10
7	I	2	THR	CA-C-N	-7.22	110.98	122.76
7	I	2	THR	C-N-CA	-7.22	110.98	122.76
1	A	227	VAL	CA-C-O	7.22	125.35	119.29
2	B	258	LEU	N-CA-C	7.22	120.03	108.41
2	B	1204	PHE	N-CA-C	7.22	120.19	111.82
1	A	439	ASN	O-C-N	-7.21	114.16	121.88
1	A	920	LEU	CD1-CG-CD2	7.21	126.67	110.80
2	B	1080	LYS	O-C-N	7.21	131.19	122.75
1	A	598	LEU	N-CA-C	7.21	121.39	112.59
1	A	158	PRO	N-CA-C	7.21	127.32	112.47
2	B	684	LEU	O-C-N	-7.21	114.59	122.09
2	B	331	LEU	N-CA-CB	7.20	120.46	110.01
7	I	118	ARG	NE-CZ-NH2	7.20	125.68	119.20
2	B	199	MET	N-CA-C	-7.20	104.11	114.12
8	J	43	ARG	N-CA-C	7.20	121.14	110.48
2	B	1072	MET	CG-SD-CE	7.20	116.74	100.90
6	H	107	VAL	CA-CB-CG1	7.20	122.64	110.40
9	K	34	THR	CA-C-O	7.20	128.24	120.32
2	B	988	GLY	CA-C-O	-7.20	113.64	121.48
1	A	1015	VAL	CB-CA-C	7.19	123.45	111.37
3	C	96	SER	N-CA-CB	-7.19	98.83	110.77
1	A	1377	THR	CA-CB-CG2	7.19	122.72	110.50
1	A	1240	CYS	N-CA-C	7.19	120.64	109.07
1	A	472	LEU	CD1-CG-CD2	7.18	126.61	110.80
1	A	567	LYS	CA-C-O	-7.18	110.32	120.16
1	A	708	MET	N-CA-C	-7.18	96.07	107.93
6	H	135	LEU	CB-CG-CD2	7.18	132.25	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1052	VAL	CA-CB-CG2	-7.18	98.19	110.40
5	F	92	ARG	CB-CG-CD	7.18	127.82	111.30
7	I	108	HIS	N-CA-C	-7.18	97.90	109.96
1	A	4	GLN	CB-CA-C	7.18	123.64	110.36
1	A	959	ASN	O-C-N	-7.18	113.10	122.43
9	K	70	ARG	NE-CZ-NH2	7.18	125.66	119.20
10	L	69	ALA	CB-CA-C	-7.18	101.54	111.73
2	B	317	CYS	N-CA-CB	7.17	120.47	110.07
3	C	34	ARG	CA-C-N	-7.17	110.11	120.29
3	C	34	ARG	C-N-CA	-7.17	110.11	120.29
1	A	533	LYS	N-CA-C	-7.17	102.65	111.33
7	I	48	LEU	CA-C-N	-7.17	113.06	123.10
7	I	48	LEU	C-N-CA	-7.17	113.06	123.10
2	B	662	MET	O-C-N	-7.16	112.83	122.43
6	H	139	ASN	CA-C-N	-7.16	112.05	122.44
6	H	139	ASN	C-N-CA	-7.16	112.05	122.44
1	A	169	ASN	N-CA-C	7.16	120.09	110.35
1	A	353	ILE	CB-CA-C	-7.16	100.50	111.31
2	B	983	ARG	N-CA-CB	-7.16	100.49	110.65
1	A	964	ILE	CA-C-O	-7.16	113.11	121.05
1	A	619	LYS	CG-CD-CE	7.15	127.75	111.30
2	B	281	PRO	CB-CA-C	7.15	120.64	111.56
4	E	20	LYS	CA-CB-CG	7.15	128.40	114.10
7	I	83	ASN	CB-CA-C	-7.15	95.24	109.33
9	K	48	ALA	O-C-N	7.15	131.91	122.33
1	A	619	LYS	O-C-N	-7.15	114.54	122.12
1	A	737	LEU	CD1-CG-CD2	7.15	126.53	110.80
9	K	6	ARG	N-CA-C	-7.15	103.53	111.82
1	A	1021	LEU	O-C-N	-7.15	114.00	122.15
2	B	849	GLY	CA-C-O	-7.15	110.88	119.03
2	B	1149	GLU	CA-CB-CG	7.15	128.39	114.10
7	I	9	ASP	N-CA-C	-7.15	102.02	111.24
8	J	19	GLU	CA-C-O	7.15	128.33	120.82
2	B	395	GLN	N-CA-C	7.14	119.53	110.24
2	B	557	PHE	CB-CA-C	7.14	122.65	110.79
1	A	381	THR	CB-CA-C	-7.14	97.13	108.91
6	H	57	VAL	CB-CA-C	-7.14	102.25	111.53
1	A	581	ALA	N-CA-C	7.14	122.25	112.90
2	B	1127	GLY	N-CA-C	7.14	134.00	113.30
1	A	516	SER	N-CA-CB	-7.14	99.64	111.49
1	A	600	PRO	N-CD-CG	-7.14	92.50	103.20
1	A	1418	LEU	CB-CG-CD1	7.13	132.10	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	787	VAL	CB-CA-C	-7.13	102.92	110.62
3	C	221	TYR	N-CA-C	7.13	126.00	110.80
3	C	15	LYS	CG-CD-CE	7.13	127.71	111.30
1	A	1242	VAL	N-CA-CB	-7.13	96.54	110.45
3	C	123	ASN	CB-CA-C	7.13	122.58	110.81
7	I	25	LEU	N-CA-C	7.13	120.35	108.73
1	A	1259	MET	CG-SD-CE	7.13	116.58	100.90
1	A	1270	ASN	N-CA-C	-7.13	104.51	112.57
4	E	69	ILE	CA-C-N	-7.13	110.91	120.54
4	E	69	ILE	C-N-CA	-7.13	110.91	120.54
1	A	737	LEU	CB-CA-C	-7.13	98.04	109.80
1	A	974	ASP	O-C-N	7.12	131.32	123.13
2	B	964	VAL	CA-CB-CG2	-7.12	98.29	110.40
4	E	21	GLU	CB-CG-CD	7.12	124.71	112.60
1	A	1100	ARG	NE-CZ-NH2	-7.12	112.79	119.20
2	B	661	LEU	N-CA-CB	7.12	120.31	109.98
1	A	25	GLU	O-C-N	-7.12	114.58	122.12
5	F	101	ILE	CB-CA-C	-7.12	102.72	112.04
2	B	58	THR	CA-CB-OG1	-7.11	98.93	109.60
1	A	1325	THR	N-CA-CB	-7.11	98.81	110.40
7	I	32	CYS	N-CA-C	-7.11	99.44	110.17
7	I	42	LEU	N-CA-C	7.11	119.69	108.67
10	L	66	GLN	N-CA-CB	-7.11	99.90	110.85
1	A	559	VAL	N-CA-CB	-7.11	102.89	111.21
2	B	965	LYS	CG-CD-CE	7.11	127.65	111.30
1	A	567	LYS	CD-CE-NZ	7.10	134.62	111.90
1	A	751	SER	CA-CB-OG	7.10	125.31	111.10
5	F	125	LEU	N-CA-C	-7.10	103.28	112.23
1	A	883	LEU	CD1-CG-CD2	-7.10	95.18	110.80
6	H	118	PHE	CA-C-O	-7.10	113.17	120.84
2	B	1053	GLU	N-CA-CB	7.10	120.67	110.16
1	A	459	ARG	NE-CZ-NH1	7.10	128.60	121.50
1	A	850	VAL	N-CA-C	7.10	118.86	109.21
2	B	725	PRO	CB-CA-C	7.10	123.27	111.56
4	E	36	GLU	CA-C-O	7.10	128.42	119.12
2	B	339	THR	CA-CB-OG1	7.09	120.24	109.60
1	A	349	ALA	CA-C-O	-7.09	113.57	121.51
5	F	77	ASP	CA-C-N	-7.09	108.00	121.54
5	F	77	ASP	C-N-CA	-7.09	108.00	121.54
7	I	47	GLU	O-C-N	-7.09	114.42	122.93
1	A	653	VAL	CG1-CB-CG2	-7.09	95.21	110.80
1	A	367	PRO	CB-CA-C	-7.08	102.56	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	64	ALA	CA-C-O	7.08	128.10	120.10
1	A	532	ARG	NE-CZ-NH1	7.08	128.58	121.50
1	A	839	ARG	CA-C-N	-7.08	108.64	120.68
1	A	839	ARG	C-N-CA	-7.08	108.64	120.68
3	C	136	ASP	CA-CB-CG	7.08	119.68	112.60
1	A	21	LEU	CA-C-O	7.08	129.16	121.16
2	B	415	GLN	N-CA-CB	7.08	120.49	109.94
2	B	697	GLU	CA-C-O	-7.08	110.67	119.38
2	B	258	LEU	CA-C-N	7.08	132.05	120.94
2	B	258	LEU	C-N-CA	7.08	132.05	120.94
4	E	9	ILE	CB-CA-C	-7.08	102.76	112.24
4	E	92	THR	N-CA-C	7.07	118.99	111.28
3	C	147	LEU	N-CA-CB	-7.07	98.50	111.37
2	B	957	ASN	N-CA-CB	-7.07	98.54	110.49
1	A	833	GLU	CG-CD-OE1	7.07	134.65	118.40
6	H	130	ARG	CA-C-N	7.07	129.98	120.65
6	H	130	ARG	C-N-CA	7.07	129.98	120.65
9	K	18	LYS	N-CA-CB	7.07	120.62	110.16
1	A	852	TYR	CA-C-O	-7.06	109.87	119.05
1	A	1014	ALA	CA-C-O	7.06	128.08	120.10
1	A	1164	PRO	N-CD-CG	7.06	113.79	103.20
2	B	63	ILE	N-CA-CB	-7.06	96.80	110.78
2	B	642	ASP	CA-CB-CG	7.06	119.66	112.60
1	A	285	PRO	CA-C-N	7.06	135.02	121.54
1	A	285	PRO	C-N-CA	7.06	135.02	121.54
1	A	950	GLY	CA-C-O	-7.06	111.34	118.96
7	I	90	GLN	CA-C-N	-7.06	111.25	122.76
7	I	90	GLN	C-N-CA	-7.06	111.25	122.76
2	B	945	GLU	CG-CD-OE1	7.06	134.63	118.40
7	I	60	GLN	CB-CG-CD	7.06	124.60	112.60
1	A	413	ILE	CB-CA-C	-7.06	101.43	111.31
1	A	1278	ASN	N-CA-C	7.05	124.36	113.28
2	B	205	ILE	CB-CA-C	-7.05	101.82	110.99
2	B	847	ASP	CA-C-N	-7.05	110.43	122.56
2	B	847	ASP	C-N-CA	-7.05	110.43	122.56
8	J	38	ARG	CA-C-O	-7.05	111.39	120.00
3	C	43	THR	N-CA-C	-7.05	98.86	108.38
1	A	303	TYR	CA-C-O	7.05	128.44	120.90
6	H	42	ILE	CA-C-O	-7.05	113.01	120.76
1	A	666	ILE	CA-C-N	-7.05	111.27	120.22
1	A	666	ILE	C-N-CA	-7.05	111.27	120.22
1	A	920	LEU	CA-C-O	7.05	128.94	121.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	734	HIS	CA-C-N	7.05	132.87	122.86
2	B	734	HIS	C-N-CA	7.05	132.87	122.86
1	A	87	ALA	CA-C-N	-7.04	109.62	123.56
1	A	87	ALA	C-N-CA	-7.04	109.62	123.56
2	B	549	THR	CA-CB-OG1	7.04	120.16	109.60
2	B	942	ARG	NE-CZ-NH1	-7.04	114.46	121.50
1	A	1158	PRO	CA-C-O	-7.04	109.15	118.86
1	A	1317	MET	CA-C-O	7.04	128.00	119.49
2	B	124	TYR	CA-C-O	-7.04	110.45	120.51
4	E	192	ARG	CA-C-O	7.04	130.57	120.51
1	A	12	ARG	NE-CZ-NH2	-7.03	112.87	119.20
1	A	733	ALA	CA-C-N	7.03	130.28	120.29
1	A	733	ALA	C-N-CA	7.03	130.28	120.29
3	C	249	ASP	CA-C-O	7.03	128.06	119.97
1	A	1326	ARG	NH1-CZ-NH2	-7.03	110.16	119.30
2	B	962	LYS	N-CA-CB	7.03	120.30	109.97
2	B	999	MET	CG-SD-CE	-7.03	85.44	100.90
3	C	95	CYS	CB-CA-C	7.03	122.25	110.44
3	C	233	GLU	N-CA-C	-7.03	97.50	109.24
7	I	35	VAL	CA-C-N	7.03	134.48	121.62
7	I	35	VAL	C-N-CA	7.03	134.48	121.62
1	A	223	GLY	N-CA-C	7.03	124.34	115.21
1	A	435	HIS	N-CA-C	-7.03	101.23	110.43
2	B	655	LYS	CA-C-N	-7.03	111.36	120.14
2	B	655	LYS	C-N-CA	-7.03	111.36	120.14
1	A	589	GLN	CB-CA-C	-7.02	95.39	109.79
1	A	898	ARG	N-CA-C	7.02	120.42	109.96
1	A	30	ILE	CG1-CB-CG2	7.02	131.75	110.70
2	B	1064	TYR	CA-C-N	-7.02	108.20	120.97
2	B	1064	TYR	C-N-CA	-7.02	108.20	120.97
2	B	914	LYS	CB-CA-C	-7.01	97.57	110.62
2	B	203	PHE	N-CA-C	-7.01	99.83	110.14
2	B	396	ASP	O-C-N	7.01	131.44	122.89
8	J	14	VAL	CA-C-O	7.01	129.54	120.78
3	C	38	ILE	O-C-N	-7.01	115.04	121.91
1	A	825	ILE	CB-CA-C	-7.01	102.85	112.24
10	L	70	ARG	NE-CZ-NH1	7.01	128.51	121.50
1	A	138	ILE	N-CA-CB	7.00	119.53	110.57
1	A	196	GLU	CA-CB-CG	7.00	128.11	114.10
1	A	346	ASP	CA-CB-CG	7.00	119.60	112.60
2	B	591	ARG	O-C-N	7.00	130.96	122.48
1	A	703	THR	CA-C-O	-7.00	113.02	121.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	900	ASP	CB-CA-C	-7.00	99.47	111.23
2	B	554	ILE	N-CA-C	-7.00	103.70	110.42
2	B	652	LYS	CA-C-O	-7.00	113.41	120.90
2	B	603	LEU	O-C-N	-7.00	114.17	122.15
3	C	196	ASP	CA-CB-CG	7.00	119.60	112.60
1	A	79	GLY	N-CA-C	-7.00	96.59	113.18
1	A	166	GLY	CA-C-O	7.00	126.83	120.53
1	A	761	MET	CA-C-O	-7.00	113.00	120.42
1	A	1288	ASP	N-CA-C	7.00	121.26	110.20
2	B	564	GLU	CG-CD-OE1	-7.00	102.31	118.40
7	I	114	GLN	N-CA-C	7.00	119.76	111.71
6	H	126	GLU	CA-CB-CG	6.99	128.08	114.10
2	B	1094	ARG	CA-C-O	6.99	128.05	120.43
2	B	935	ARG	O-C-N	6.99	131.93	122.57
5	F	84	TYR	N-CA-C	6.99	121.24	110.20
6	H	10	PHE	N-CA-C	6.99	120.89	109.85
6	H	47	PHE	CA-C-N	-6.99	113.50	120.21
6	H	47	PHE	C-N-CA	-6.99	113.50	120.21
1	A	794	PRO	O-C-N	6.99	129.72	122.18
2	B	294	ASP	CA-C-N	6.99	127.69	119.94
2	B	294	ASP	C-N-CA	6.99	127.69	119.94
1	A	278	THR	CA-CB-CG2	6.98	122.37	110.50
2	B	57	TYR	N-CA-CB	6.98	122.29	110.49
2	B	452	THR	CA-C-N	6.98	134.54	121.97
2	B	452	THR	C-N-CA	6.98	134.54	121.97
3	C	165	LYS	CD-CE-NZ	6.98	134.25	111.90
1	A	225	ASN	O-C-N	6.98	131.48	123.31
1	A	788	SER	CB-CA-C	6.98	122.05	109.83
1	A	941	LYS	CA-C-N	-6.98	110.82	120.38
1	A	941	LYS	C-N-CA	-6.98	110.82	120.38
4	E	92	THR	CA-C-N	6.98	130.20	120.29
4	E	92	THR	C-N-CA	6.98	130.20	120.29
8	J	28	ASP	CB-CA-C	-6.98	98.64	110.64
1	A	561	PRO	CB-CA-C	-6.98	101.81	110.95
1	A	106	VAL	N-CA-CB	-6.97	104.39	112.34
1	A	243	PRO	N-CD-CG	-6.97	92.74	103.20
2	B	945	GLU	CG-CD-OE2	-6.97	102.36	118.40
6	H	128	ASN	N-CA-C	6.97	125.64	110.80
1	A	1033	GLN	CA-C-O	-6.97	111.12	119.27
2	B	735	ALA	O-C-N	6.97	132.32	123.12
1	A	1129	GLU	CA-CB-CG	6.96	128.02	114.10
2	B	499	ASN	N-CA-C	6.96	121.01	108.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	J	62	ARG	CG-CD-NE	-6.96	96.69	112.00
1	A	1239	ARG	N-CA-CB	-6.96	99.12	110.81
2	B	750	GLY	O-C-N	6.96	130.24	122.86
2	B	1028	GLU	OE1-CD-OE2	-6.96	106.20	122.90
7	I	14	LEU	CA-C-O	-6.96	113.07	121.28
1	A	566	ILE	O-C-N	6.95	133.15	122.16
3	C	84	ARG	NE-CZ-NH2	6.95	125.46	119.20
4	E	35	VAL	CB-CA-C	-6.95	102.92	112.24
9	K	57	LEU	CA-C-O	-6.95	111.58	119.79
2	B	586	TRP	O-C-N	-6.95	113.26	122.57
4	E	184	VAL	CB-CA-C	6.95	120.70	111.94
1	A	789	LYS	N-CA-CB	-6.95	100.33	110.26
3	C	239	PRO	CA-C-N	-6.94	112.25	120.72
3	C	239	PRO	C-N-CA	-6.94	112.25	120.72
1	A	1261	LYS	N-CA-C	6.94	121.84	113.23
2	B	829	CYS	N-CA-C	-6.94	97.94	109.46
1	A	92	HIS	CA-C-N	-6.94	110.95	120.46
1	A	92	HIS	C-N-CA	-6.94	110.95	120.46
1	A	1135	ARG	CA-CB-CG	6.94	127.97	114.10
1	A	123	ARG	CA-C-O	-6.94	111.99	119.97
2	B	1023	VAL	CA-C-O	-6.93	113.15	120.57
3	C	228	PHE	N-CA-C	6.93	120.48	108.76
4	E	149	LEU	CA-C-N	-6.93	112.37	123.46
4	E	149	LEU	C-N-CA	-6.93	112.37	123.46
7	I	4	PHE	CA-C-O	-6.93	110.59	120.51
8	J	54	VAL	N-CA-C	6.93	118.31	107.28
2	B	327	ARG	N-CA-CB	-6.93	99.54	110.28
3	C	121	VAL	CA-CB-CG1	6.93	122.19	110.40
1	A	35	ILE	N-CA-C	6.93	123.75	109.34
1	A	516	SER	CA-C-O	6.93	127.82	119.78
4	E	149	LEU	CD1-CG-CD2	-6.93	95.56	110.80
1	A	1012	ARG	CD-NE-CZ	6.93	134.10	124.40
1	A	1301	GLU	N-CA-CB	6.93	122.70	110.37
2	B	244	LEU	CD1-CG-CD2	6.93	126.04	110.80
1	A	390	GLN	CG-CD-NE2	-6.92	106.01	116.40
3	C	147	LEU	CD1-CG-CD2	-6.92	95.57	110.80
4	E	206	GLY	CA-C-O	-6.92	108.52	120.57
6	H	3	ASN	CA-CB-CG	6.92	119.52	112.60
9	K	113	THR	N-CA-C	6.92	120.69	109.40
3	C	38	ILE	CA-C-N	-6.92	110.45	122.36
3	C	38	ILE	C-N-CA	-6.92	110.45	122.36
2	B	1082	MET	CA-C-N	-6.92	110.66	123.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1082	MET	C-N-CA	-6.92	110.66	123.05
2	B	984	HIS	CA-C-O	6.92	128.70	120.53
2	B	106	ASP	N-CA-CB	-6.92	98.80	110.49
1	A	649	ILE	CA-C-O	6.92	127.94	120.47
1	A	1102	LYS	N-CA-CB	-6.92	99.95	110.12
2	B	204	ILE	CA-CB-CG1	6.92	122.16	110.40
2	B	208	SER	CB-CA-C	-6.92	98.34	109.75
1	A	938	LYS	CG-CD-CE	-6.91	95.40	111.30
2	B	878	GLN	CA-C-O	-6.91	110.62	120.51
1	A	295	LEU	CB-CA-C	-6.91	98.05	110.70
1	A	749	ALA	N-CA-C	6.91	120.97	112.54
1	A	7	SER	N-CA-C	6.91	120.11	108.02
6	H	107	VAL	CA-C-O	-6.91	112.14	120.78
1	A	840	ARG	CG-CD-NE	-6.91	96.81	112.00
2	B	696	GLU	CG-CD-OE2	6.91	134.29	118.40
1	A	1334	ASP	CA-C-N	6.91	129.26	120.56
1	A	1334	ASP	C-N-CA	6.91	129.26	120.56
2	B	1078	GLY	CA-C-N	-6.91	110.10	120.94
2	B	1078	GLY	C-N-CA	-6.91	110.10	120.94
3	C	263	THR	CA-C-N	-6.91	111.19	122.65
3	C	263	THR	C-N-CA	-6.91	111.19	122.65
7	I	85	PHE	N-CA-C	6.91	119.94	109.23
7	I	13	MET	CG-SD-CE	-6.90	85.72	100.90
1	A	412	ARG	NE-CZ-NH2	-6.90	112.99	119.20
2	B	164	LYS	CG-CD-CE	6.90	127.17	111.30
1	A	776	ALA	CB-CA-C	-6.89	97.48	110.51
2	B	1050	ILE	N-CA-C	6.89	123.68	109.34
1	A	1345	ARG	NE-CZ-NH1	-6.89	114.61	121.50
2	B	1095	LEU	CD1-CG-CD2	-6.89	95.63	110.80
1	A	992	ASP	N-CA-CB	-6.89	99.96	110.16
7	I	102	VAL	O-C-N	6.89	129.71	123.03
1	A	1080	THR	CA-CB-CG2	6.89	122.21	110.50
3	C	263	THR	CA-CB-OG1	-6.89	99.27	109.60
4	E	171	LYS	CA-C-O	-6.89	114.02	121.94
4	E	91	LYS	O-C-N	6.89	130.50	122.17
2	B	645	SER	N-CA-C	6.89	125.47	110.80
1	A	411	ASP	O-C-N	6.88	131.40	122.93
1	A	1029	ARG	O-C-N	-6.88	114.98	122.07
2	B	51	PHE	N-CA-C	-6.88	103.22	111.69
1	A	1018	PHE	N-CA-C	6.88	118.78	111.28
1	A	37	PHE	CA-C-O	-6.88	112.82	120.25
1	A	696	GLU	O-C-N	-6.88	114.93	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1133	LEU	CD1-CG-CD2	6.88	125.94	110.80
1	A	1442	ASP	CB-CG-OD2	6.88	134.22	118.40
2	B	246	LYS	N-CA-C	6.88	121.52	109.96
2	B	531	GLN	CB-CG-CD	6.88	124.30	112.60
7	I	68	LEU	CA-C-N	-6.88	113.22	120.03
7	I	68	LEU	C-N-CA	-6.88	113.22	120.03
1	A	175	ARG	N-CA-C	6.88	120.88	109.95
1	A	644	LYS	CB-CA-C	-6.88	99.37	110.79
2	B	389	ALA	N-CA-CB	-6.88	99.62	110.28
2	B	853	SER	N-CA-C	6.88	119.52	109.07
3	C	129	ILE	CA-C-O	6.88	126.73	121.09
1	A	968	GLN	CB-CA-C	-6.88	95.81	110.32
1	A	1289	ARG	NE-CZ-NH2	6.88	125.39	119.20
1	A	1008	GLN	N-CA-C	6.87	118.77	111.28
1	A	1415	SER	CB-CA-C	-6.87	96.52	109.72
5	F	85	MET	CG-SD-CE	-6.87	85.78	100.90
2	B	46	GLN	N-CA-C	-6.87	103.79	111.28
2	B	1201	LYS	CA-C-O	-6.87	113.61	120.82
3	C	38	ILE	N-CA-C	6.87	117.01	110.42
7	I	112	SER	N-CA-C	6.87	121.25	113.01
2	B	706	GLN	CG-CD-NE2	6.87	126.70	116.40
3	C	80	LEU	CB-CA-C	6.86	121.59	109.72
1	A	1170	ILE	CA-C-O	-6.86	113.37	120.71
3	C	71	PRO	CA-CB-CG	6.86	117.54	104.50
4	E	187	TYR	N-CA-C	6.86	118.84	111.36
1	A	1074	GLU	CA-C-N	-6.86	111.74	119.28
1	A	1074	GLU	C-N-CA	-6.86	111.74	119.28
1	A	1133	LEU	CB-CG-CD2	-6.86	90.13	110.70
1	A	1176	LEU	CB-CA-C	6.86	123.13	110.10
1	A	1384	VAL	CA-CB-CG1	-6.86	98.75	110.40
1	A	55	ASP	O-C-N	6.85	129.20	121.32
1	A	1165	GLU	CA-C-N	-6.85	111.70	122.73
1	A	1165	GLU	C-N-CA	-6.85	111.70	122.73
1	A	953	ASN	CB-CG-OD1	6.85	134.50	120.80
1	A	88	LYS	CG-CD-CE	-6.85	95.55	111.30
2	B	1055	ILE	CA-CB-CG1	6.85	122.04	110.40
3	C	168	ALA	N-CA-C	6.85	125.38	110.80
1	A	553	VAL	O-C-N	-6.85	113.30	121.10
2	B	188	ASP	N-CA-C	-6.84	103.88	111.82
2	B	576	ASP	N-CA-C	-6.84	104.81	113.02
1	A	866	PHE	N-CA-C	-6.84	104.93	113.28
1	A	884	ASP	CB-CG-OD1	-6.84	102.66	118.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1156	ASP	N-CA-CB	6.84	120.03	109.97
8	J	12	LYS	CA-C-O	-6.84	113.62	121.15
6	H	21	ASN	N-CA-C	6.84	122.29	113.88
5	F	135	ARG	CA-C-N	6.84	131.51	122.42
5	F	135	ARG	C-N-CA	6.84	131.51	122.42
1	A	806	ARG	O-C-N	6.83	131.49	122.33
1	A	885	THR	OG1-CB-CG2	-6.83	95.63	109.30
2	B	388	CYS	CA-C-O	6.83	127.85	119.79
2	B	1074	ASN	CA-C-N	-6.83	111.52	120.13
2	B	1074	ASN	C-N-CA	-6.83	111.52	120.13
2	B	1096	ARG	CA-C-N	-6.83	108.49	121.54
2	B	1096	ARG	C-N-CA	-6.83	108.49	121.54
1	A	856	THR	OG1-CB-CG2	-6.83	95.64	109.30
1	A	399	HIS	CB-CA-C	-6.83	98.78	109.09
1	A	776	ALA	N-CA-C	6.83	120.49	110.59
1	A	961	ARG	CD-NE-CZ	6.83	133.96	124.40
1	A	1053	PHE	CA-C-N	-6.83	109.08	120.68
1	A	1053	PHE	C-N-CA	-6.83	109.08	120.68
2	B	578	THR	CA-CB-CG2	-6.83	98.90	110.50
6	H	33	GLN	N-CA-C	6.83	119.69	109.25
7	I	70	ARG	N-CA-C	6.83	120.64	109.72
1	A	351	THR	N-CA-C	6.82	119.78	109.41
3	C	149	LYS	CD-CE-NZ	-6.82	90.07	111.90
5	F	142	SER	CA-C-O	-6.82	113.27	121.05
3	C	20	PHE	CB-CA-C	-6.82	97.03	113.19
1	A	215	SER	CA-C-O	-6.82	113.53	121.16
1	A	960	ILE	CG1-CB-CG2	-6.82	90.25	110.70
1	A	576	GLN	CA-C-N	-6.82	110.74	120.42
1	A	576	GLN	C-N-CA	-6.82	110.74	120.42
1	A	1362	TYR	N-CA-CB	6.81	121.83	110.59
2	B	722	ASP	CA-C-N	-6.81	110.72	121.62
2	B	722	ASP	C-N-CA	-6.81	110.72	121.62
2	B	730	ARG	O-C-N	-6.81	114.57	123.16
6	H	61	SER	O-C-N	6.81	129.15	121.93
2	B	1012	ILE	CA-CB-CG1	6.81	121.98	110.40
2	B	202	TYR	CA-C-O	-6.81	113.68	121.58
9	K	14	GLU	CB-CG-CD	6.81	124.18	112.60
1	A	394	ASN	CA-C-O	6.81	127.77	120.55
9	K	110	ASN	N-CA-CB	6.81	120.34	110.20
1	A	1430	LEU	CA-C-N	-6.80	109.89	120.91
1	A	1430	LEU	C-N-CA	-6.80	109.89	120.91
1	A	710	LEU	N-CA-C	6.80	119.27	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	931	GLU	CB-CG-CD	-6.80	101.04	112.60
9	K	85	ASP	CA-C-N	-6.80	109.24	121.14
9	K	85	ASP	C-N-CA	-6.80	109.24	121.14
1	A	64	ASN	CA-C-N	6.80	134.52	121.54
1	A	64	ASN	C-N-CA	6.80	134.52	121.54
1	A	1000	LEU	N-CA-C	6.80	120.60	109.72
6	H	12	VAL	N-CA-C	6.80	118.33	107.73
9	K	36	GLU	N-CA-CB	-6.80	99.55	110.63
2	B	1221	SER	CB-CA-C	6.80	123.95	110.42
4	E	203	GLU	N-CA-C	6.79	121.42	113.20
7	I	54	GLU	OE1-CD-OE2	6.79	139.21	122.90
7	I	119	THR	CA-C-N	6.79	130.52	122.44
7	I	119	THR	C-N-CA	6.79	130.52	122.44
1	A	350	ARG	NE-CZ-NH1	6.79	128.29	121.50
1	A	507	VAL	CA-C-N	6.79	126.59	119.05
1	A	507	VAL	C-N-CA	6.79	126.59	119.05
1	A	843	LYS	CB-CG-CD	6.79	126.92	111.30
3	C	106	GLU	N-CA-C	-6.79	102.39	111.96
9	K	1	MET	CB-CG-SD	-6.79	92.32	112.70
9	K	105	PHE	O-C-N	6.79	129.99	122.11
1	A	301	ALA	N-CA-C	6.79	125.26	110.80
1	A	514	PRO	CA-CB-CG	6.79	117.40	104.50
2	B	553	PRO	N-CD-CG	-6.79	93.02	103.20
2	B	611	PRO	CA-C-O	-6.79	109.47	119.18
3	C	181	ASP	N-CA-C	6.79	124.81	109.81
2	B	826	ALA	CA-C-O	-6.79	113.11	120.92
1	A	816	HIS	N-CA-C	-6.79	104.26	112.54
3	C	172	PRO	CA-N-CD	-6.79	102.50	112.00
2	B	870	ILE	CA-CB-CG1	6.78	121.93	110.40
5	F	133	VAL	N-CA-C	6.78	118.25	108.48
6	H	56	THR	OG1-CB-CG2	-6.78	95.73	109.30
7	I	92	ARG	CA-C-N	6.78	129.37	120.28
7	I	92	ARG	C-N-CA	6.78	129.37	120.28
1	A	959	ASN	CA-CB-CG	-6.78	105.82	112.60
4	E	172	GLU	CG-CD-OE1	-6.78	102.80	118.40
1	A	237	THR	CA-C-O	-6.78	110.81	120.51
1	A	821	ARG	NH1-CZ-NH2	6.78	128.11	119.30
1	A	922	ASP	CB-CA-C	-6.78	100.36	110.67
2	B	633	VAL	CB-CA-C	-6.78	101.07	111.31
1	A	506	ALA	O-C-N	6.78	131.21	122.87
1	A	1121	GLU	CG-CD-OE1	6.78	133.99	118.40
1	A	1283	VAL	N-CA-CB	-6.78	99.60	111.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1220	ARG	NE-CZ-NH2	6.78	125.30	119.20
4	E	68	SER	O-C-N	6.78	129.41	122.09
1	A	298	PHE	N-CA-C	-6.77	104.28	112.54
5	F	79	ARG	CB-CG-CD	-6.77	95.72	111.30
6	H	139	ASN	N-CA-CB	6.77	121.94	110.49
9	K	114	LEU	CA-CB-CG	6.77	140.00	116.30
1	A	1155	ASP	N-CA-C	-6.77	97.65	108.82
3	C	210	GLU	O-C-N	-6.77	115.90	123.48
7	I	107	SER	CA-CB-OG	-6.77	97.56	111.10
2	B	1193	GLN	CB-CG-CD	-6.77	101.09	112.60
4	E	47	CYS	N-CA-C	6.77	120.20	108.76
4	E	117	THR	OG1-CB-CG2	-6.77	95.77	109.30
1	A	1238	ILE	CA-CB-CG1	6.77	121.90	110.40
6	H	40	LEU	O-C-N	6.77	130.73	123.56
2	B	223	VAL	CA-C-N	6.76	132.40	122.39
2	B	223	VAL	C-N-CA	6.76	132.40	122.39
2	B	611	PRO	CA-C-N	-6.76	111.83	122.65
2	B	611	PRO	C-N-CA	-6.76	111.83	122.65
2	B	571	PRO	N-CA-C	-6.76	104.13	113.53
2	B	909	ASP	CA-C-O	-6.76	114.19	120.95
2	B	691	GLU	CA-CB-CG	6.76	127.61	114.10
9	K	6	ARG	CD-NE-CZ	6.76	133.86	124.40
10	L	64	LEU	CA-C-N	-6.75	113.55	122.94
10	L	64	LEU	C-N-CA	-6.75	113.55	122.94
1	A	285	PRO	O-C-N	6.75	131.46	122.89
1	A	751	SER	N-CA-C	6.75	121.75	112.90
1	A	1433	MET	N-CA-CB	6.75	121.30	110.16
4	E	66	GLU	CA-C-N	-6.75	111.66	120.44
4	E	66	GLU	C-N-CA	-6.75	111.66	120.44
4	E	102	GLU	CA-C-O	-6.75	111.70	119.60
5	F	122	MET	CG-SD-CE	6.75	115.75	100.90
2	B	523	CYS	CB-CA-C	-6.75	99.35	108.87
6	H	99	GLY	O-C-N	6.75	131.47	122.70
2	B	817	LEU	CB-CA-C	-6.75	101.35	111.27
9	K	16	GLU	N-CA-CB	-6.75	100.04	110.56
1	A	386	ASP	N-CA-C	6.74	119.63	111.40
1	A	1135	ARG	CD-NE-CZ	6.74	133.84	124.40
2	B	178	ASN	N-CA-C	6.74	122.68	113.37
2	B	912	ILE	CA-C-N	6.74	128.09	121.62
2	B	912	ILE	C-N-CA	6.74	128.09	121.62
3	C	10	ILE	N-CA-C	6.74	123.36	109.34
1	A	694	THR	OG1-CB-CG2	-6.74	95.82	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	84	ARG	N-CA-C	-6.74	105.09	113.38
1	A	37	PHE	CA-CB-CG	6.74	120.54	113.80
1	A	883	LEU	N-CA-CB	-6.74	99.97	110.55
1	A	1050	GLU	CA-C-O	6.74	127.56	120.42
1	A	1359	ASP	N-CA-CB	6.74	121.88	110.49
4	E	197	LYS	CB-CA-C	-6.74	98.63	109.75
5	F	93	ILE	N-CA-C	6.74	117.24	110.23
7	I	119	THR	N-CA-C	6.74	119.62	111.40
2	B	212	LEU	CD1-CG-CD2	-6.74	95.98	110.80
3	C	40	GLU	CA-C-N	-6.74	117.74	122.59
3	C	40	GLU	C-N-CA	-6.74	117.74	122.59
3	C	146	LYS	O-C-N	-6.74	115.18	123.33
4	E	30	ILE	N-CA-C	-6.74	97.90	108.81
1	A	1004	ASN	N-CA-CB	-6.73	101.16	110.38
4	E	210	SER	CB-CA-C	-6.73	96.97	111.11
1	A	909	ASP	O-C-N	-6.73	113.58	121.32
1	A	416	ARG	CA-C-O	6.73	126.54	119.14
2	B	1097	HIS	CA-C-O	6.73	130.13	120.51
2	B	249	ARG	CA-C-N	6.73	134.39	121.54
2	B	249	ARG	C-N-CA	6.73	134.39	121.54
3	C	215	GLU	N-CA-CB	6.73	121.75	110.32
1	A	997	LEU	CD1-CG-CD2	-6.73	96.00	110.80
2	B	680	THR	CA-CB-OG1	-6.72	99.51	109.60
7	I	84	VAL	CB-CA-C	6.72	121.78	110.95
1	A	1264	GLU	N-CA-C	6.72	118.49	111.03
2	B	597	MET	N-CA-CB	-6.72	100.24	110.12
1	A	151	ASP	N-CA-C	-6.72	96.49	110.80
2	B	1155	SER	N-CA-CB	6.72	121.85	110.49
3	C	34	ARG	CB-CG-CD	-6.72	95.85	111.30
6	H	55	LEU	N-CA-C	6.72	120.58	108.69
7	I	84	VAL	CA-C-O	-6.72	112.87	121.40
2	B	737	THR	CA-CB-OG1	6.72	119.67	109.60
2	B	990	ILE	CA-C-O	-6.72	113.19	120.85
1	A	229	SER	N-CA-C	6.71	120.40	107.44
2	B	646	LEU	CB-CG-CD2	6.71	130.85	110.70
4	E	174	GLN	CG-CD-NE2	-6.71	106.33	116.40
6	H	106	GLU	CB-CA-C	6.71	123.87	110.17
1	A	1359	ASP	CA-C-O	-6.71	110.91	120.51
2	B	388	CYS	O-C-N	-6.71	113.33	122.33
1	A	472	LEU	CA-CB-CG	-6.71	92.82	116.30
1	A	562	THR	N-CA-C	6.71	118.11	109.72
1	A	932	GLU	CB-CG-CD	6.71	124.00	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1290	LYS	CA-C-N	-6.71	112.22	121.68
1	A	1290	LYS	C-N-CA	-6.71	112.22	121.68
2	B	106	ASP	CA-CB-CG	6.71	119.31	112.60
1	A	494	SER	CA-CB-OG	6.71	124.51	111.10
9	K	82	ASP	O-C-N	-6.71	114.57	121.28
9	K	103	THR	N-CA-C	-6.71	100.64	111.04
3	C	23	SER	CA-C-O	-6.71	113.24	120.75
1	A	161	LEU	CA-C-N	-6.70	112.58	122.23
1	A	161	LEU	C-N-CA	-6.70	112.58	122.23
5	F	139	PRO	N-CD-CG	6.70	113.25	103.20
7	I	112	SER	N-CA-CB	-6.70	98.66	110.39
3	C	28	ALA	O-C-N	6.70	130.06	122.22
3	C	72	LEU	N-CA-C	-6.70	98.48	109.40
4	E	35	VAL	CA-C-O	6.70	127.88	120.71
7	I	36	GLU	N-CA-C	6.70	119.04	108.79
9	K	77	THR	CA-C-O	-6.70	113.29	121.06
1	A	561	PRO	CB-CG-CD	-6.70	84.67	106.10
2	B	848	ARG	CA-C-O	6.70	127.53	119.43
1	A	158	PRO	CA-C-N	-6.69	108.76	121.54
1	A	158	PRO	C-N-CA	-6.69	108.76	121.54
2	B	658	ILE	CA-C-O	6.69	128.15	119.85
2	B	879	ARG	O-C-N	6.69	131.49	122.59
1	A	475	THR	CA-C-O	6.69	127.85	120.82
2	B	707	PRO	CA-C-O	6.69	130.21	119.64
1	A	1442	ASP	CB-CG-OD1	-6.69	103.01	118.40
4	E	195	VAL	CA-CB-CG1	6.69	121.77	110.40
7	I	29	CYS	O-C-N	6.69	130.79	123.10
7	I	116	ASN	CA-C-O	-6.68	112.67	120.62
3	C	146	LYS	N-CA-C	6.68	120.42	109.06
5	F	115	THR	N-CA-C	-6.68	105.42	113.97
6	H	23	VAL	CA-C-O	-6.68	113.53	121.28
1	A	239	LEU	CA-C-O	6.68	126.50	119.69
1	A	864	ILE	CG1-CB-CG2	-6.68	90.66	110.70
2	B	178	ASN	CB-CA-C	-6.68	97.68	110.57
1	A	1006	ILE	CA-CB-CG1	6.67	121.75	110.40
8	J	10	CYS	CB-CA-C	6.67	121.26	109.65
1	A	664	THR	CB-CA-C	-6.67	98.21	110.62
2	B	1150	ARG	NE-CZ-NH2	-6.67	113.19	119.20
6	H	56	THR	CB-CA-C	6.67	121.81	110.81
1	A	972	HIS	N-CA-C	-6.67	102.69	111.02
4	E	71	LYS	CB-CA-C	-6.67	97.58	109.24
4	E	183	PRO	CA-N-CD	-6.67	102.67	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	179	LEU	CB-CA-C	-6.67	99.46	110.72
2	B	700	SER	CA-C-O	-6.66	111.76	119.56
2	B	815	ARG	N-CA-C	6.66	120.51	112.38
2	B	1158	PHE	N-CA-C	6.66	124.99	110.80
2	B	1167	GLY	N-CA-C	6.66	128.97	113.18
2	B	613	VAL	N-CA-C	6.66	118.66	109.80
5	F	79	ARG	CA-C-N	-6.66	111.67	122.26
5	F	79	ARG	C-N-CA	-6.66	111.67	122.26
1	A	206	GLU	N-CA-CB	6.66	120.32	110.33
1	A	366	VAL	O-C-N	-6.66	114.38	121.11
1	A	793	SER	CA-CB-OG	6.66	124.42	111.10
9	K	44	ASN	O-C-N	-6.66	114.43	122.22
1	A	108	MET	N-CA-C	6.66	121.11	113.19
1	A	905	ASP	N-CA-CB	-6.66	100.31	110.16
2	B	844	SER	N-CA-CB	-6.66	100.33	110.12
8	J	36	LEU	N-CA-CB	6.66	120.60	110.28
9	K	54	ARG	CD-NE-CZ	6.66	133.72	124.40
1	A	659	HIS	ND1-CG-CD2	6.66	112.76	106.10
1	A	923	LEU	N-CA-CB	6.66	120.55	110.30
2	B	348	ARG	NE-CZ-NH2	-6.66	113.21	119.20
2	B	406	LEU	O-C-N	-6.66	115.44	123.29
3	C	35	ARG	N-CA-C	6.65	118.61	111.36
1	A	1199	ARG	CD-NE-CZ	-6.65	115.09	124.40
2	B	950	ASP	CA-C-O	6.65	126.05	118.47
3	C	20	PHE	CA-C-O	-6.65	113.47	121.32
3	C	77	ILE	N-CA-C	-6.65	103.96	113.07
2	B	1089	PRO	CA-C-O	-6.65	113.88	122.12
2	B	624	LEU	CA-C-N	6.64	132.35	123.05
2	B	624	LEU	C-N-CA	6.64	132.35	123.05
9	K	6	ARG	CA-C-O	6.64	127.61	119.97
1	A	209	ASN	CA-CB-CG	-6.64	105.96	112.60
1	A	526	ASP	N-CA-C	-6.64	103.30	111.40
1	A	676	MET	N-CA-C	-6.64	104.44	112.54
1	A	682	THR	CA-C-O	6.64	127.80	120.63
2	B	1203	LEU	CD1-CG-CD2	-6.64	96.19	110.80
2	B	1204	PHE	N-CA-CB	-6.64	99.98	110.28
10	L	63	ARG	CA-CB-CG	6.64	127.39	114.10
1	A	535	THR	N-CA-CB	-6.64	100.44	110.73
7	I	100	PHE	N-CA-CB	6.64	122.29	110.80
1	A	1215	ARG	N-CA-C	-6.64	102.67	111.24
2	B	1077	THR	O-C-N	-6.64	114.57	122.27
2	B	181	LEU	CB-CG-CD2	-6.64	90.79	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1143	ALA	CA-C-N	-6.64	110.72	120.28
2	B	1143	ALA	C-N-CA	-6.64	110.72	120.28
2	B	1046	PRO	CA-CB-CG	6.64	117.11	104.50
9	K	56	VAL	CB-CA-C	6.64	119.68	111.25
2	B	654	ARG	N-CA-CB	-6.63	100.13	111.21
4	E	92	THR	OG1-CB-CG2	-6.63	96.04	109.30
2	B	372	SER	CA-C-N	-6.63	110.88	120.29
2	B	372	SER	C-N-CA	-6.63	110.88	120.29
7	I	106	CYS	O-C-N	6.63	129.02	122.19
1	A	104	GLU	N-CA-C	6.63	124.92	110.80
2	B	136	THR	CA-C-N	6.63	134.20	121.54
2	B	136	THR	C-N-CA	6.63	134.20	121.54
2	B	547	VAL	CG1-CB-CG2	6.63	125.38	110.80
8	J	17	LYS	CA-C-N	-6.63	109.41	120.68
8	J	17	LYS	C-N-CA	-6.63	109.41	120.68
1	A	1384	VAL	CA-C-O	-6.63	113.73	120.69
3	C	44	LEU	CA-C-O	-6.63	113.69	120.71
7	I	44	TYR	CA-C-O	6.63	127.80	120.31
9	K	23	PRO	CA-C-O	-6.63	108.54	120.60
3	C	207	CYS	CB-CA-C	-6.62	98.44	110.56
4	E	38	PRO	O-C-N	6.62	131.58	122.64
6	H	100	THR	OG1-CB-CG2	-6.62	96.06	109.30
1	A	659	HIS	N-CA-C	6.62	121.52	113.38
1	A	1135	ARG	CA-C-N	-6.62	110.01	121.66
1	A	1135	ARG	C-N-CA	-6.62	110.01	121.66
1	A	812	GLU	OE1-CD-OE2	-6.62	107.02	122.90
2	B	870	ILE	O-C-N	6.62	127.52	121.96
1	A	275	SER	CA-CB-OG	-6.62	97.87	111.10
4	E	164	LEU	O-C-N	-6.62	115.11	122.12
2	B	308	TRP	N-CA-C	-6.61	104.47	112.54
2	B	846	ILE	N-CA-C	6.61	117.37	110.62
1	A	203	SER	N-CA-C	-6.61	100.50	110.28
1	A	1170	ILE	O-C-N	6.61	130.57	121.84
3	C	7	GLN	N-CA-C	6.61	120.60	109.76
1	A	123	ARG	CD-NE-CZ	6.61	133.66	124.40
1	A	645	LEU	CB-CG-CD2	6.61	130.53	110.70
4	E	7	ARG	CA-C-O	-6.61	113.83	120.90
2	B	517	THR	N-CA-CB	6.61	121.51	110.41
1	A	153	PRO	CA-C-N	-6.61	109.53	122.02
1	A	153	PRO	C-N-CA	-6.61	109.53	122.02
2	B	116	GLU	N-CA-C	-6.61	103.56	111.69
2	B	743	ILE	CA-CB-CG1	6.61	121.63	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	955	THR	CB-CA-C	-6.61	98.48	112.82
1	A	524	VAL	N-CA-C	6.60	118.44	108.80
8	J	56	LEU	N-CA-C	-6.60	104.48	112.54
3	C	108	GLU	N-CA-C	-6.60	103.78	110.97
6	H	80	ARG	N-CA-C	-6.60	97.54	108.23
1	A	146	MET	N-CA-CB	-6.60	100.10	110.46
1	A	1243	VAL	CA-CB-CG2	6.60	121.62	110.40
2	B	1135	ARG	NH1-CZ-NH2	6.60	127.88	119.30
1	A	458	HIS	CA-C-O	-6.60	113.74	121.46
1	A	646	PHE	CZ-CE2-CD2	-6.60	108.13	120.00
1	A	1067	LEU	N-CA-C	6.59	119.02	111.11
4	E	124	VAL	O-C-N	6.59	128.62	121.10
6	H	46	LEU	CB-CG-CD1	-6.59	90.92	110.70
2	B	65	GLU	CB-CG-CD	6.59	123.80	112.60
4	E	167	ARG	NE-CZ-NH1	-6.59	114.91	121.50
5	F	120	ILE	CA-CB-CG1	6.59	121.60	110.40
1	A	232	GLU	CG-CD-OE1	6.59	133.55	118.40
1	A	1114	PRO	O-C-N	6.59	131.00	123.10
1	A	492	PRO	O-C-N	6.59	131.16	123.06
3	C	32	SER	N-CA-C	6.59	120.18	111.75
3	C	238	ILE	CG1-CB-CG2	-6.59	90.94	110.70
4	E	148	GLU	N-CA-CB	6.59	121.52	110.32
2	B	226	PHE	N-CA-C	6.58	120.33	108.48
1	A	453	MET	N-CA-C	-6.58	105.32	113.15
2	B	436	VAL	CB-CA-C	6.58	122.08	111.29
2	B	1183	LYS	CA-C-N	-6.58	115.61	123.44
2	B	1183	LYS	C-N-CA	-6.58	115.61	123.44
1	A	572	TRP	O-C-N	-6.58	115.69	123.06
1	A	475	THR	CB-CA-C	6.58	121.21	110.88
2	B	1106	ARG	N-CA-C	6.58	119.97	108.52
1	A	377	PRO	CA-N-CD	-6.58	102.79	112.00
1	A	724	GLU	N-CA-C	-6.58	104.19	111.82
1	A	768	GLN	CA-C-O	-6.58	113.47	121.36
1	A	1294	PRO	CB-CA-C	6.58	124.08	112.64
5	F	82	THR	CA-C-O	-6.58	113.53	120.70
5	F	110	ASP	CA-C-O	-6.58	112.86	120.49
1	A	37	PHE	CA-C-N	6.57	128.06	119.84
1	A	37	PHE	C-N-CA	6.57	128.06	119.84
1	A	180	LYS	CA-C-N	-6.57	112.29	122.87
1	A	180	LYS	C-N-CA	-6.57	112.29	122.87
4	E	97	VAL	CA-C-O	6.57	127.61	120.57
9	K	18	LYS	CA-C-O	6.57	127.39	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1413	GLY	N-CA-C	-6.57	104.88	112.50
1	A	1417	GLU	N-CA-C	-6.57	100.56	110.28
2	B	226	PHE	CA-CB-CG	-6.57	107.23	113.80
2	B	376	PHE	N-CA-CB	6.57	119.78	110.12
1	A	72	GLU	N-CA-C	6.57	124.79	110.80
1	A	53	LEU	CA-CB-CG	6.57	139.28	116.30
10	L	30	ILE	CA-C-O	6.57	128.24	121.28
1	A	18	GLN	O-C-N	6.56	131.78	123.12
1	A	496	GLU	CB-CG-CD	-6.56	101.44	112.60
2	B	404	LYS	CG-CD-CE	6.56	126.40	111.30
3	C	43	THR	OG1-CB-CG2	-6.56	96.18	109.30
1	A	371	ALA	N-CA-C	6.56	119.25	111.71
2	B	267	ARG	NE-CZ-NH2	-6.56	113.30	119.20
1	A	462	VAL	CB-CA-C	6.56	119.67	111.15
2	B	265	SER	CB-CA-C	6.56	120.57	109.75
2	B	614	SER	CA-C-O	-6.56	113.76	120.71
5	F	114	GLU	CA-C-O	-6.56	113.98	121.19
1	A	575	LYS	CA-C-N	-6.56	110.34	120.31
1	A	575	LYS	C-N-CA	-6.56	110.34	120.31
1	A	480	ALA	CA-C-N	-6.55	112.53	122.23
1	A	480	ALA	C-N-CA	-6.55	112.53	122.23
1	A	1056	SER	N-CA-CB	-6.55	99.40	110.41
2	B	170	LEU	CB-CA-C	-6.55	101.35	110.13
9	K	70	ARG	CA-C-O	-6.55	113.65	120.99
1	A	1025	ARG	N-CA-CB	6.55	120.16	110.33
3	C	30	ALA	CA-C-O	6.55	127.91	120.90
7	I	52	ILE	CB-CA-C	-6.55	101.57	111.33
1	A	887	GLY	N-CA-C	6.55	123.71	112.51
2	B	588	GLY	CA-C-O	-6.55	109.18	120.57
1	A	98	LYS	CB-CA-C	-6.55	100.56	110.90
1	A	134	ARG	NH1-CZ-NH2	-6.55	110.79	119.30
7	I	5	ARG	CB-CG-CD	6.55	126.36	111.30
4	E	201	LYS	CD-CE-NZ	-6.54	90.95	111.90
2	B	536	VAL	CG1-CB-CG2	-6.54	96.40	110.80
1	A	757	ASN	N-CA-C	6.54	118.96	111.11
1	A	774	ARG	N-CA-CB	6.54	119.61	110.26
2	B	269	ILE	CA-C-O	-6.54	113.69	121.28
7	I	83	ASN	OD1-CG-ND2	6.54	129.14	122.60
9	K	26	LYS	N-CA-CB	-6.54	100.14	110.22
2	B	19	GLU	CB-CG-CD	6.54	123.72	112.60
1	A	86	LEU	N-CA-CB	6.54	121.31	110.52
1	A	912	LEU	CA-C-N	-6.54	110.43	121.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	912	LEU	C-N-CA	-6.54	110.43	121.94
2	B	644	GLU	CA-C-N	-6.54	109.05	121.54
2	B	644	GLU	C-N-CA	-6.54	109.05	121.54
9	K	66	PRO	N-CA-C	6.54	122.52	114.35
1	A	925	LEU	N-CA-C	-6.54	104.15	111.28
1	A	1176	LEU	CA-CB-CG	6.54	139.18	116.30
3	C	86	CYS	N-CA-CB	6.54	120.82	110.23
1	A	439	ASN	CB-CG-OD1	6.53	133.87	120.80
4	E	12	LEU	CB-CA-C	6.53	121.63	110.79
1	A	425	GLN	CB-CA-C	-6.53	99.99	111.22
2	B	1014	PRO	N-CA-C	6.53	123.28	113.81
1	A	403	LYS	CA-CB-CG	6.53	127.16	114.10
1	A	801	GLU	OE1-CD-OE2	6.53	138.57	122.90
2	B	231	PRO	CB-CG-CD	-6.53	85.21	106.10
2	B	654	ARG	NE-CZ-NH2	6.53	125.07	119.20
6	H	38	LEU	CD1-CG-CD2	-6.53	96.44	110.80
2	B	692	TYR	O-C-N	-6.52	115.59	123.16
2	B	1151	LEU	O-C-N	-6.52	113.37	122.37
2	B	108	VAL	N-CA-C	6.52	122.91	109.34
2	B	997	GLU	CA-CB-CG	-6.52	101.05	114.10
2	B	1041	GLU	OE1-CD-OE2	6.52	138.55	122.90
1	A	218	ASP	OD1-CG-OD2	6.52	138.54	122.90
1	A	732	LEU	O-C-N	-6.52	115.31	122.09
2	B	667	GLN	N-CA-C	6.52	119.75	109.39
6	H	35	GLN	CA-C-N	6.52	130.62	121.24
6	H	35	GLN	C-N-CA	6.52	130.62	121.24
2	B	513	GLN	CA-C-O	-6.51	114.03	121.72
5	F	82	THR	N-CA-CB	6.51	119.62	110.11
2	B	356	LEU	N-CA-C	6.51	119.38	111.82
9	K	101	LEU	N-CA-CB	-6.51	99.48	110.49
1	A	1192	LEU	CB-CA-C	-6.51	97.91	109.70
1	A	1381	LEU	O-C-N	-6.51	114.41	122.68
3	C	87	PHE	CE1-CZ-CE2	-6.51	108.28	120.00
7	I	54	GLU	CG-CD-OE2	-6.51	103.43	118.40
2	B	320	ASP	CB-CG-OD1	6.51	133.37	118.40
3	C	167	HIS	O-C-N	-6.51	116.00	123.42
2	B	1096	ARG	O-C-N	-6.50	114.71	122.65
1	A	1029	ARG	CB-CG-CD	6.50	126.26	111.30
1	A	1302	PRO	O-C-N	6.50	131.06	123.06
2	B	188	ASP	CB-CG-OD1	-6.50	103.45	118.40
2	B	224	GLN	CA-CB-CG	-6.50	101.10	114.10
2	B	745	PRO	O-C-N	6.50	130.95	122.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	943	SER	O-C-N	-6.50	113.94	122.59
2	B	1132	GLU	CG-CD-OE1	6.50	133.35	118.40
1	A	465	TYR	O-C-N	-6.50	113.95	122.59
2	B	810	GLU	N-CA-C	-6.50	104.12	111.07
7	I	110	PHE	CZ-CE2-CD2	6.50	131.70	120.00
1	A	96	ILE	CA-CB-CG1	6.50	121.44	110.40
2	B	164	LYS	CA-C-O	-6.50	109.76	120.80
4	E	187	TYR	CA-CB-CG	6.49	125.59	113.90
1	A	994	GLN	N-CA-CB	6.49	119.79	110.06
2	B	576	ASP	CA-C-O	6.49	127.28	119.43
4	E	68	SER	CA-C-O	-6.49	114.02	120.70
2	B	228	LYS	N-CA-C	-6.49	98.41	109.24
6	H	14	GLU	O-C-N	6.49	131.22	122.59
2	B	336	ARG	NE-CZ-NH1	-6.48	115.02	121.50
1	A	966	ASN	N-CA-C	-6.48	102.88	111.24
1	A	1195	LEU	CA-C-O	6.48	127.70	120.70
1	A	1307	GLU	CG-CD-OE1	6.48	133.31	118.40
5	F	83	PRO	N-CA-C	-6.48	105.17	114.18
1	A	381	THR	CA-C-O	-6.48	113.61	120.28
1	A	1418	LEU	CB-CA-C	-6.48	100.23	110.79
2	B	43	LEU	CD1-CG-CD2	6.48	125.06	110.80
2	B	328	GLU	CA-CB-CG	-6.48	101.14	114.10
2	B	547	VAL	N-CA-C	6.48	119.12	112.90
2	B	1030	LEU	CA-C-O	6.48	127.29	120.42
3	C	163	ILE	CA-CB-CG1	-6.48	99.39	110.40
3	C	252	GLN	CB-CA-C	6.48	121.86	110.85
7	I	4	PHE	O-C-N	6.48	131.20	122.59
1	A	432	VAL	CB-CA-C	-6.48	102.57	110.99
1	A	1196	GLU	CA-CB-CG	-6.47	101.15	114.10
2	B	53	GLN	CA-C-N	-6.47	111.60	120.28
2	B	53	GLN	C-N-CA	-6.47	111.60	120.28
1	A	829	VAL	O-C-N	6.47	128.23	121.89
1	A	937	VAL	CA-CB-CG2	-6.47	99.40	110.40
1	A	1318	THR	CB-CA-C	6.47	122.15	109.72
3	C	175	ALA	N-CA-CB	-6.47	100.61	110.45
1	A	225	ASN	CB-CG-ND2	-6.47	106.69	116.40
2	B	416	LEU	N-CA-CB	6.47	119.29	110.10
2	B	810	GLU	CA-C-N	-6.47	109.82	121.14
2	B	810	GLU	C-N-CA	-6.47	109.82	121.14
3	C	135	GLN	CA-CB-CG	6.47	127.04	114.10
1	A	174	ILE	CA-CB-CG1	6.47	121.39	110.40
1	A	237	THR	OG1-CB-CG2	6.47	122.23	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	396	PRO	CA-C-O	-6.47	109.95	119.00
1	A	69	THR	CA-C-N	6.46	133.41	121.52
1	A	69	THR	C-N-CA	6.46	133.41	121.52
1	A	94	GLY	CA-C-N	-6.46	111.91	121.99
1	A	94	GLY	C-N-CA	-6.46	111.91	121.99
2	B	368	GLU	CB-CG-CD	6.46	123.59	112.60
2	B	597	MET	CB-CA-C	6.46	121.52	110.79
2	B	41	LYS	CA-C-O	6.46	125.89	118.97
2	B	996	ARG	NH1-CZ-NH2	6.46	127.70	119.30
1	A	607	ILE	O-C-N	6.46	130.46	123.03
7	I	28	GLU	CA-C-O	-6.46	113.51	121.78
1	A	439	ASN	CB-CG-ND2	-6.46	106.72	116.40
2	B	109	THR	CA-C-N	6.46	132.62	121.64
2	B	109	THR	C-N-CA	6.46	132.62	121.64
2	B	217	ARG	CB-CG-CD	6.46	126.15	111.30
9	K	63	VAL	CB-CA-C	6.46	119.82	110.98
1	A	527	THR	CA-CB-OG1	6.46	119.28	109.60
1	A	561	PRO	N-CD-CG	6.46	112.88	103.20
2	B	255	GLN	CA-C-N	6.45	131.78	123.13
2	B	255	GLN	C-N-CA	6.45	131.78	123.13
10	L	48	CYS	N-CA-C	6.45	116.52	108.19
2	B	466	TRP	N-CA-C	6.45	124.54	110.80
7	I	17	ARG	CB-CG-CD	6.45	126.14	111.30
8	J	6	ARG	CB-CA-C	-6.45	97.14	109.66
1	A	209	ASN	N-CA-C	-6.45	103.48	112.45
1	A	629	LEU	N-CA-C	-6.45	104.34	111.82
1	A	1445	ILE	CA-C-O	-6.45	112.83	121.02
2	B	245	GLU	CA-CB-CG	6.45	127.00	114.10
2	B	368	GLU	CA-C-N	-6.45	108.78	121.41
2	B	368	GLU	C-N-CA	-6.45	108.78	121.41
1	A	616	VAL	N-CA-CB	-6.44	100.08	110.13
2	B	578	THR	CA-C-O	-6.44	113.21	120.43
9	K	75	ILE	CA-CB-CG1	6.44	121.36	110.40
9	K	96	ASN	CA-C-N	-6.44	110.08	122.06
9	K	96	ASN	C-N-CA	-6.44	110.08	122.06
1	A	495	GLU	CB-CG-CD	6.44	123.55	112.60
1	A	554	PRO	N-CA-C	6.44	122.22	113.84
2	B	60	GLN	CA-C-O	-6.44	113.72	120.55
9	K	102	LYS	CA-C-O	6.44	127.38	119.97
4	E	133	GLU	CG-CD-OE2	-6.44	103.59	118.40
4	E	179	GLN	CB-CG-CD	-6.44	101.65	112.60
2	B	131	ASP	O-C-N	6.44	131.74	123.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	170	LEU	CB-CG-CD1	-6.44	91.39	110.70
5	F	140	ASP	CA-C-N	6.44	131.86	122.46
5	F	140	ASP	C-N-CA	6.44	131.86	122.46
7	I	104	LEU	CD1-CG-CD2	-6.44	96.64	110.80
1	A	833	GLU	CB-CG-CD	6.43	123.53	112.60
1	A	410	GLY	CA-C-O	-6.43	111.86	119.06
1	A	586	ILE	CA-C-N	6.43	133.13	122.33
1	A	586	ILE	C-N-CA	6.43	133.13	122.33
4	E	110	PHE	CA-C-N	-6.43	114.19	123.06
4	E	110	PHE	C-N-CA	-6.43	114.19	123.06
1	A	508	PRO	N-CD-CG	6.43	112.85	103.20
1	A	1138	ILE	O-C-N	6.43	128.76	122.07
1	A	1353	TYR	CA-C-O	-6.43	113.60	120.42
1	A	171	GLN	CA-C-N	6.43	126.34	119.85
1	A	171	GLN	C-N-CA	6.43	126.34	119.85
1	A	1212	VAL	CB-CA-C	-6.43	103.65	111.88
1	A	1360	GLY	N-CA-C	6.43	123.91	115.36
2	B	408	LEU	CB-CA-C	-6.43	103.02	113.37
2	B	1181	GLU	N-CA-C	6.43	119.38	108.90
1	A	396	PRO	CA-CB-CG	-6.42	92.29	104.50
1	A	901	LEU	CA-C-O	6.42	127.28	119.38
2	B	406	LEU	CB-CA-C	-6.42	98.61	109.72
6	H	81	PRO	O-C-N	-6.42	113.88	121.46
1	A	698	GLN	CB-CA-C	-6.42	98.34	110.67
1	A	774	ARG	NH1-CZ-NH2	-6.42	110.95	119.30
4	E	154	ILE	CB-CA-C	-6.42	101.39	110.12
1	A	1118	VAL	CA-CB-CG1	6.42	121.32	110.40
2	B	986	GLN	CA-CB-CG	-6.42	101.26	114.10
7	I	90	GLN	CA-C-O	-6.42	111.33	120.51
2	B	194	GLU	O-C-N	-6.42	115.72	123.29
1	A	549	MET	CA-C-O	-6.42	113.11	120.24
1	A	866	PHE	CA-C-O	6.42	126.82	119.18
1	A	156	ASP	N-CA-C	6.42	124.47	110.80
2	B	398	ARG	NE-CZ-NH1	-6.42	115.08	121.50
3	C	202	PRO	N-CA-C	6.42	120.91	111.03
3	C	243	VAL	CA-CB-CG1	6.42	121.31	110.40
1	A	1280	GLU	O-C-N	-6.41	114.06	122.59
1	A	920	LEU	CA-C-N	-6.41	109.08	121.78
1	A	920	LEU	C-N-CA	-6.41	109.08	121.78
1	A	1163	ILE	N-CA-C	6.41	113.90	107.55
1	A	86	LEU	CA-C-N	-6.41	111.72	120.44
1	A	86	LEU	C-N-CA	-6.41	111.72	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	268	ASP	CB-CA-C	6.41	122.98	110.67
2	B	1071	VAL	CA-C-N	-6.41	112.05	122.82
2	B	1071	VAL	C-N-CA	-6.41	112.05	122.82
1	A	855	THR	N-CA-CB	6.41	120.19	110.45
1	A	1015	VAL	N-CA-CB	-6.41	101.31	112.08
1	A	1129	GLU	OE1-CD-OE2	-6.41	107.52	122.90
1	A	1442	ASP	CA-C-O	-6.41	114.12	121.68
2	B	287	ARG	N-CA-C	-6.41	104.34	111.71
2	B	637	LEU	CD1-CG-CD2	-6.41	96.70	110.80
1	A	673	GLY	N-CA-C	-6.41	107.08	115.22
2	B	227	LYS	N-CA-C	-6.41	101.30	110.59
2	B	308	TRP	CA-C-O	-6.41	111.50	119.38
2	B	1168	LEU	CA-C-N	-6.41	112.73	122.21
2	B	1168	LEU	C-N-CA	-6.41	112.73	122.21
2	B	763	GLN	CB-CA-C	-6.40	99.39	109.70
9	K	70	ARG	NE-CZ-NH1	-6.40	115.10	121.50
1	A	1294	PRO	CB-CG-CD	-6.40	85.62	106.10
2	B	330	ALA	N-CA-C	-6.40	104.30	111.28
2	B	392	ARG	N-CA-C	-6.40	105.78	113.97
3	C	119	VAL	CA-CB-CG2	6.40	121.28	110.40
3	C	121	VAL	CG1-CB-CG2	-6.40	96.72	110.80
8	J	14	VAL	N-CA-CB	-6.40	100.67	111.23
1	A	588	LEU	CA-C-N	-6.40	112.55	122.59
1	A	588	LEU	C-N-CA	-6.40	112.55	122.59
1	A	896	ARG	NH1-CZ-NH2	6.40	127.62	119.30
1	A	914	GLU	O-C-N	6.40	131.10	122.59
2	B	1141	HIS	CE1-NE2-CD2	-6.40	102.60	109.00
4	E	170	LEU	CA-C-O	-6.40	113.68	121.36
1	A	125	ALA	CA-C-N	-6.39	110.59	120.31
1	A	125	ALA	C-N-CA	-6.39	110.59	120.31
4	E	23	VAL	CA-CB-CG2	-6.39	99.53	110.40
6	H	127	GLY	N-CA-C	6.39	128.33	113.18
1	A	987	VAL	O-C-N	-6.39	115.25	121.83
2	B	324	ILE	CA-C-O	6.39	127.04	120.39
4	E	3	GLN	N-CA-C	-6.39	103.44	111.11
7	I	34	TYR	CB-CG-CD1	6.39	130.39	120.80
1	A	556	TRP	CA-CB-CG	6.39	125.74	113.60
2	B	665	GLU	CA-C-N	6.39	129.48	120.28
2	B	665	GLU	C-N-CA	6.39	129.48	120.28
4	E	36	GLU	N-CA-C	-6.39	105.47	113.20
1	A	522	GLY	O-C-N	6.39	130.85	123.44
2	B	453	ILE	N-CA-C	-6.39	96.05	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	953	ASN	CB-CG-ND2	-6.39	106.82	116.40
1	A	1260	LEU	CA-C-N	-6.39	110.42	121.66
1	A	1260	LEU	C-N-CA	-6.39	110.42	121.66
3	C	174	ALA	CA-C-O	-6.39	111.38	120.51
2	B	652	LYS	CD-CE-NZ	6.38	132.33	111.90
2	B	1011	ILE	N-CA-CB	-6.38	103.86	111.90
9	K	78	THR	O-C-N	6.38	130.99	122.82
3	C	244	VAL	CB-CA-C	-6.38	103.68	112.04
1	A	235	ILE	CB-CA-C	6.38	120.51	110.81
2	B	398	ARG	NE-CZ-NH2	6.38	124.94	119.20
4	E	24	LYS	CG-CD-CE	-6.38	96.62	111.30
2	B	974	PRO	CA-C-N	6.38	132.33	121.87
2	B	974	PRO	C-N-CA	6.38	132.33	121.87
2	B	1148	LYS	CD-CE-NZ	-6.38	91.48	111.90
4	E	17	ARG	N-CA-C	6.38	118.77	111.11
1	A	114	LEU	N-CA-C	-6.38	105.32	113.23
7	I	29	CYS	CA-CB-SG	6.38	129.07	114.40
7	I	92	ARG	CA-C-O	6.38	128.32	121.11
4	E	20	LYS	N-CA-CB	-6.38	100.75	110.12
1	A	923	LEU	N-CA-C	6.38	120.26	112.23
2	B	537	LYS	CB-CG-CD	6.38	125.96	111.30
1	A	287	HIS	O-C-N	-6.37	114.76	122.22
1	A	1103	GLU	N-CA-CB	-6.37	100.40	110.28
2	B	18	PHE	N-CA-CB	6.37	121.34	110.50
1	A	237	THR	CA-C-N	6.37	131.68	122.44
1	A	237	THR	C-N-CA	6.37	131.68	122.44
1	A	1077	THR	O-C-N	-6.37	115.37	122.12
2	B	642	ASP	N-CA-CB	6.37	121.05	110.47
1	A	1031	VAL	CB-CA-C	-6.37	102.75	112.05
1	A	371	ALA	CA-C-O	-6.37	112.91	120.10
1	A	548	ASN	CB-CG-OD1	6.37	133.53	120.80
7	I	11	ASN	OD1-CG-ND2	-6.37	116.23	122.60
1	A	261	ASP	N-CA-C	6.36	128.82	111.00
1	A	1209	MET	O-C-N	-6.36	115.27	122.08
2	B	857	ARG	O-C-N	-6.36	115.13	123.21
2	B	566	LEU	CA-C-O	6.36	127.71	120.90
2	B	733	HIS	CA-C-O	6.36	129.61	120.51
8	J	3	VAL	N-CA-CB	6.36	120.11	111.21
8	J	10	CYS	O-C-N	-6.36	114.09	122.42
1	A	797	LYS	CA-C-N	-6.36	113.26	122.29
1	A	797	LYS	C-N-CA	-6.36	113.26	122.29
1	A	1158	PRO	CB-CA-C	6.36	121.04	111.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1429	ILE	CA-CB-CG2	6.36	121.31	110.50
7	I	24	ARG	CG-CD-NE	-6.36	98.02	112.00
2	B	18	PHE	N-CA-C	-6.35	93.21	111.00
3	C	26	ASP	CA-C-O	6.35	128.49	121.56
4	E	77	SER	CA-CB-OG	-6.35	98.39	111.10
1	A	379	VAL	CB-CA-C	-6.35	103.04	110.91
1	A	430	TRP	CA-C-N	-6.35	112.84	122.81
1	A	430	TRP	C-N-CA	-6.35	112.84	122.81
1	A	815	PHE	N-CA-C	-6.35	104.46	111.82
1	A	1213	GLY	N-CA-C	-6.35	105.11	112.73
2	B	349	ILE	O-C-N	-6.35	115.59	121.94
1	A	547	LEU	CB-CG-CD2	-6.35	91.66	110.70
2	B	89	GLU	CA-C-O	-6.35	110.01	120.80
2	B	640	VAL	CG1-CB-CG2	6.35	124.76	110.80
4	E	120	ALA	O-C-N	6.35	128.61	122.07
9	K	40	HIS	O-C-N	-6.35	114.79	122.22
2	B	534	GLY	CA-C-O	6.35	125.08	119.56
1	A	519	PRO	N-CA-CB	-6.34	97.83	103.35
10	L	55	ILE	N-CA-C	6.34	116.99	108.11
1	A	564	ALA	N-CA-C	-6.34	105.03	112.89
1	A	766	GLY	CA-C-O	-6.34	114.54	122.59
1	A	1018	PHE	CA-C-O	6.34	127.27	120.55
2	B	90	ILE	CA-CB-CG2	6.34	121.28	110.50
1	A	247	ARG	O-C-N	6.34	128.61	121.32
2	B	210	LYS	CB-CG-CD	6.34	125.88	111.30
1	A	96	ILE	CA-C-O	6.34	128.70	120.78
9	K	105	PHE	CA-C-O	-6.34	114.14	120.80
1	A	428	TYR	CA-C-O	-6.33	113.70	120.92
1	A	829	VAL	N-CA-C	6.33	117.84	110.62
1	A	1219	THR	N-CA-C	6.33	119.17	111.82
1	A	1238	ILE	CA-CB-CG2	-6.33	99.74	110.50
2	B	246	LYS	CA-C-O	6.33	128.20	120.92
1	A	61	ILE	O-C-N	6.33	130.43	122.52
1	A	1421	CYS	O-C-N	-6.33	114.11	122.47
1	A	360	GLU	N-CA-C	6.33	118.72	110.43
1	A	1165	GLU	N-CA-C	6.33	120.57	112.34
3	C	214	ASN	N-CA-CB	6.33	121.31	110.68
4	E	192	ARG	CB-CG-CD	6.33	125.86	111.30
1	A	394	ASN	CB-CA-C	-6.33	100.29	110.79
2	B	1201	LYS	N-CA-C	-6.33	104.30	111.07
4	E	155	ARG	N-CA-CB	-6.33	100.42	109.85
1	A	889	SER	N-CA-CB	6.32	120.03	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	930	ASP	CA-C-O	-6.32	113.22	120.24
9	K	85	ASP	N-CA-CB	6.32	120.70	110.40
1	A	406	ILE	N-CA-C	-6.32	99.04	108.46
2	B	620	ARG	N-CA-C	6.32	121.15	113.38
3	C	19	ASP	CA-C-O	-6.32	113.40	120.54
1	A	32	VAL	CB-CA-C	6.32	121.65	111.29
1	A	1079	MET	N-CA-CB	-6.32	101.84	110.56
3	C	170	TRP	N-CA-C	6.32	120.84	113.20
6	H	121	LEU	N-CA-CB	-6.32	99.58	109.87
1	A	41	MET	CG-SD-CE	6.31	114.79	100.90
1	A	769	SER	CA-C-O	6.31	127.83	120.89
2	B	512	ARG	CA-C-O	6.31	127.19	119.11
5	F	143	PHE	O-C-N	-6.31	115.53	123.17
5	F	117	PRO	O-C-N	-6.31	114.66	122.23
4	E	136	ASN	CA-C-N	6.31	129.25	120.29
4	E	136	ASN	C-N-CA	6.31	129.25	120.29
2	B	296	GLU	CA-C-O	-6.31	112.72	119.97
2	B	355	ILE	N-CA-CB	-6.31	103.51	110.51
9	K	83	PRO	N-CD-CG	-6.31	93.74	103.20
1	A	144	THR	CA-CB-CG2	6.30	121.22	110.50
1	A	299	HIS	N-CA-C	-6.30	103.69	112.45
2	B	433	GLN	N-CA-C	-6.30	105.72	113.41
3	C	121	VAL	CA-C-N	-6.30	111.54	121.87
3	C	121	VAL	C-N-CA	-6.30	111.54	121.87
3	C	241	ASP	CA-C-O	-6.30	111.50	120.51
4	E	20	LYS	N-CA-C	6.30	118.15	111.28
2	B	987	LYS	CB-CG-CD	-6.30	96.81	111.30
9	K	76	GLN	CB-CA-C	-6.30	97.34	109.37
1	A	326	ARG	CA-CB-CG	6.30	126.69	114.10
1	A	705	LYS	N-CA-C	6.30	119.67	107.71
2	B	41	LYS	CB-CA-C	6.30	119.65	109.07
10	L	42	ARG	N-CA-CB	6.30	120.46	110.57
1	A	351	THR	CA-C-N	6.29	129.88	120.69
1	A	351	THR	C-N-CA	6.29	129.88	120.69
1	A	354	SER	CA-CB-OG	6.29	123.69	111.10
1	A	1094	VAL	N-CA-C	6.29	118.44	108.87
5	F	87	LYS	CG-CD-CE	6.29	125.78	111.30
1	A	26	GLU	CA-C-N	-6.29	111.66	120.53
1	A	26	GLU	C-N-CA	-6.29	111.66	120.53
1	A	610	GLY	N-CA-C	6.29	125.08	113.76
9	K	49	GLU	CB-CA-C	-6.29	100.96	110.90
1	A	696	GLU	CB-CA-C	6.29	120.87	110.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	455	MET	CG-SD-CE	-6.29	87.06	100.90
1	A	601	LYS	CG-CD-CE	6.29	125.76	111.30
1	A	932	GLU	N-CA-C	-6.29	104.35	111.14
1	A	941	LYS	CD-CE-NZ	-6.29	91.78	111.90
1	A	1199	ARG	O-C-N	6.29	130.95	122.59
1	A	1330	ASN	CA-C-N	-6.29	112.28	122.34
1	A	1330	ASN	C-N-CA	-6.29	112.28	122.34
4	E	138	ALA	N-CA-CB	-6.29	100.63	110.06
2	B	775	LYS	CB-CG-CD	-6.29	96.84	111.30
1	A	1051	ALA	N-CA-CB	-6.28	100.86	110.16
2	B	746	SER	N-CA-CB	6.28	120.60	110.42
2	B	1102	LYS	N-CA-CB	6.28	121.11	110.49
2	B	125	SER	CB-CA-C	6.28	121.84	109.66
9	K	15	GLY	CA-C-N	-6.28	111.31	122.74
9	K	15	GLY	C-N-CA	-6.28	111.31	122.74
1	A	554	PRO	CA-C-N	-6.28	113.06	123.04
1	A	554	PRO	C-N-CA	-6.28	113.06	123.04
2	B	785	TYR	CA-C-N	-6.28	110.52	120.63
2	B	785	TYR	C-N-CA	-6.28	110.52	120.63
1	A	701	LEU	N-CA-CB	-6.28	101.00	110.73
1	A	1067	LEU	O-C-N	6.28	128.62	122.09
2	B	595	ARG	NE-CZ-NH2	6.28	124.85	119.20
3	C	98	VAL	CA-C-O	-6.28	113.83	120.48
6	H	27	GLU	N-CA-CB	6.28	120.75	110.39
1	A	1319	VAL	O-C-N	6.27	128.25	121.10
1	A	1122	PRO	CA-C-N	-6.27	109.12	121.41
1	A	1122	PRO	C-N-CA	-6.27	109.12	121.41
1	A	155	GLU	CA-CB-CG	6.27	126.64	114.10
2	B	1191	ILE	O-C-N	6.27	130.41	122.57
1	A	784	LEU	CB-CA-C	-6.26	101.95	110.22
1	A	1358	SER	N-CA-C	-6.26	104.38	111.14
3	C	33	LEU	CB-CA-C	6.26	121.31	110.79
1	A	232	GLU	CG-CD-OE2	-6.26	104.00	118.40
1	A	709	THR	OG1-CB-CG2	-6.26	96.78	109.30
7	I	70	ARG	N-CA-CB	-6.26	100.37	111.08
1	A	8	SER	CA-C-O	6.26	126.99	119.10
2	B	119	LEU	N-CA-CB	-6.26	100.90	110.16
2	B	312	GLU	N-CA-CB	-6.26	98.91	110.18
2	B	446	LEU	CB-CA-C	6.26	121.99	110.10
2	B	878	GLN	O-C-N	6.26	130.91	122.59
3	C	245	VAL	CA-CB-CG2	-6.26	99.76	110.40
4	E	28	TYR	N-CA-C	-6.26	99.79	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	H	82	PRO	CB-CA-C	6.26	121.89	111.56
1	A	1046	LEU	CB-CA-C	-6.26	97.62	110.38
2	B	532	ALA	N-CA-C	-6.25	105.65	113.28
1	A	1239	ARG	CD-NE-CZ	-6.25	115.64	124.40
3	C	21	ILE	CB-CA-C	-6.25	101.98	110.42
4	E	75	MET	CB-CA-C	6.25	120.55	110.29
6	H	32	THR	N-CA-C	-6.25	97.48	110.80
2	B	727	LYS	N-CA-C	-6.25	101.27	110.52
3	C	222	LYS	N-CA-C	-6.25	105.59	113.72
7	I	4	PHE	N-CA-C	6.25	124.11	110.80
5	F	125	LEU	CB-CG-CD1	-6.25	91.95	110.70
1	A	875	ALA	N-CA-C	-6.25	105.64	113.20
2	B	112	LEU	CA-C-O	-6.25	113.61	120.30
2	B	978	ASP	CA-CB-CG	6.25	118.85	112.60
1	A	699	ALA	N-CA-CB	-6.25	100.30	110.42
2	B	346	GLU	N-CA-C	-6.25	104.92	112.54
2	B	813	LYS	CB-CA-C	-6.25	101.64	111.51
2	B	857	ARG	CA-CB-CG	-6.25	101.61	114.10
2	B	951	GLN	CA-CB-CG	6.25	126.59	114.10
8	J	54	VAL	CB-CA-C	-6.25	102.87	110.99
9	K	1	MET	CB-CA-C	-6.25	98.23	110.10
2	B	348	ARG	N-CA-C	6.25	118.64	111.02
9	K	7	PHE	N-CA-C	-6.25	104.58	111.82
1	A	242	PRO	CB-CA-C	-6.24	105.52	111.39
2	B	735	ALA	CA-C-O	-6.24	113.59	120.33
2	B	1096	ARG	NE-CZ-NH2	-6.24	113.58	119.20
1	A	48	ALA	N-CA-C	6.24	124.09	110.80
6	H	57	VAL	O-C-N	-6.24	113.88	122.62
2	B	305	VAL	CG1-CB-CG2	6.24	124.53	110.80
2	B	335	GLY	N-CA-C	6.24	120.44	112.83
2	B	485	ARG	CA-C-N	-6.24	111.92	120.28
2	B	485	ARG	C-N-CA	-6.24	111.92	120.28
2	B	760	ASP	CB-CG-OD2	6.24	132.75	118.40
2	B	935	ARG	NE-CZ-NH1	6.24	127.74	121.50
1	A	39	GLU	N-CA-C	6.24	118.66	109.24
2	B	1017	ILE	CA-C-N	6.24	125.80	119.19
2	B	1017	ILE	C-N-CA	6.24	125.80	119.19
6	H	63	LEU	CB-CA-C	6.24	121.95	110.10
2	B	967	ARG	CB-CA-C	-6.24	99.46	109.75
3	C	220	ASP	CA-C-O	6.24	127.58	120.84
1	A	799	PHE	CA-C-O	-6.24	114.18	121.16
1	A	1372	VAL	CA-CB-CG2	6.24	121.00	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	H	14	GLU	CA-CB-CG	-6.24	101.63	114.10
1	A	413	ILE	CA-C-O	-6.23	113.51	120.74
2	B	273	LEU	N-CA-C	6.23	118.71	110.36
4	E	132	ILE	N-CA-C	6.23	117.75	108.46
1	A	1259	MET	CB-CG-SD	-6.23	94.00	112.70
1	A	1280	GLU	CB-CG-CD	6.23	123.20	112.60
2	B	199	MET	CA-C-N	-6.23	111.16	121.57
2	B	199	MET	C-N-CA	-6.23	111.16	121.57
2	B	312	GLU	OE1-CD-OE2	6.23	137.86	122.90
1	A	186	LYS	CB-CG-CD	6.23	125.63	111.30
1	A	585	GLY	CA-C-O	-6.23	112.38	118.98
1	A	1353	TYR	CA-CB-CG	6.23	125.11	113.90
6	H	115	TYR	CA-C-N	-6.23	109.64	121.54
6	H	115	TYR	C-N-CA	-6.23	109.64	121.54
1	A	738	LYS	O-C-N	6.23	130.07	123.03
2	B	333	PHE	CA-CB-CG	6.23	120.03	113.80
2	B	768	THR	O-C-N	-6.23	115.05	122.15
2	B	903	VAL	CB-CA-C	-6.23	102.68	111.21
1	A	576	GLN	O-C-N	-6.23	114.61	122.27
9	K	74	ARG	CB-CG-CD	6.23	125.62	111.30
3	C	160	LYS	N-CA-CB	6.22	121.21	111.56
7	I	60	GLN	N-CA-C	6.22	118.86	111.33
1	A	399	HIS	C-N-CD	-6.22	99.48	125.00
1	A	438	ASP	CA-CB-CG	6.22	118.82	112.60
1	A	1227	ILE	CA-C-O	-6.22	115.20	121.49
2	B	424	LEU	CB-CA-C	-6.22	98.04	110.42
2	B	630	ALA	CB-CA-C	-6.22	96.77	109.65
2	B	889	THR	CA-C-N	-6.22	111.12	122.38
2	B	889	THR	C-N-CA	-6.22	111.12	122.38
1	A	363	GLN	O-C-N	6.22	129.91	122.94
1	A	616	VAL	CG1-CB-CG2	-6.22	97.12	110.80
1	A	788	SER	CA-CB-OG	-6.22	98.66	111.10
2	B	1033	LYS	CD-CE-NZ	-6.22	92.00	111.90
1	A	527	THR	CA-C-O	6.22	127.01	119.49
1	A	706	HIS	O-C-N	6.22	130.86	122.59
2	B	411	PRO	O-C-N	-6.22	114.20	122.22
1	A	49	LYS	CA-C-O	-6.21	112.56	120.14
1	A	290	GLU	N-CA-C	6.21	118.85	111.33
2	B	822	ASN	CA-C-O	-6.21	114.46	120.92
2	B	946	ASN	CA-C-O	-6.21	114.58	121.23
2	B	1152	MET	CB-CG-SD	6.21	131.34	112.70
1	A	1334	ASP	N-CA-C	6.21	118.85	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	99	LYS	CG-CD-CE	6.21	125.59	111.30
1	A	1238	ILE	CA-C-O	-6.21	113.64	120.72
3	C	227	THR	N-CA-CB	-6.21	100.38	110.81
1	A	448	PRO	N-CD-CG	6.21	111.25	103.80
1	A	633	VAL	CA-C-N	-6.21	112.37	120.44
1	A	633	VAL	C-N-CA	-6.21	112.37	120.44
1	A	666	ILE	CG1-CB-CG2	6.21	129.32	110.70
1	A	1257	ASP	CB-CA-C	-6.21	99.19	109.99
3	C	57	VAL	N-CA-CB	-6.21	101.65	112.08
4	E	75	MET	CA-C-O	6.21	127.69	120.49
1	A	109	HIS	CB-CA-C	6.20	121.86	110.88
1	A	576	GLN	CG-CD-NE2	-6.20	107.09	116.40
2	B	217	ARG	CG-CD-NE	-6.20	98.35	112.00
1	A	510	GLN	CB-CG-CD	-6.20	102.06	112.60
2	B	410	GLY	N-CA-C	6.20	124.99	112.34
2	B	1029	CYS	CB-CA-C	6.20	121.08	110.79
7	I	103	CYS	CB-CA-C	-6.20	99.97	109.89
9	K	46	ILE	CA-CB-CG1	6.20	120.94	110.40
1	A	502	SER	O-C-N	-6.20	113.97	122.46
5	F	105	ALA	N-CA-C	-6.20	102.05	110.36
1	A	669	THR	CA-CB-OG1	6.20	118.90	109.60
2	B	1012	ILE	CB-CA-C	-6.20	101.96	111.31
3	C	105	GLY	N-CA-C	-6.20	98.50	113.18
9	K	30	ALA	CA-C-N	-6.19	112.89	122.68
9	K	30	ALA	C-N-CA	-6.19	112.89	122.68
1	A	832	ALA	CA-C-O	-6.19	113.37	120.24
4	E	186	LEU	CA-C-O	-6.19	112.85	119.97
2	B	268	THR	CA-CB-CG2	6.19	121.02	110.50
4	E	207	ARG	CG-CD-NE	-6.19	98.38	112.00
10	L	61	THR	CA-CB-CG2	6.19	121.02	110.50
1	A	443	LEU	CA-C-O	-6.19	114.15	120.71
1	A	1054	LEU	CD1-CG-CD2	6.19	124.42	110.80
1	A	390	GLN	CA-C-N	-6.19	112.40	120.44
1	A	390	GLN	C-N-CA	-6.19	112.40	120.44
1	A	827	THR	O-C-N	-6.19	114.04	122.33
2	B	881	ASN	CA-C-N	6.19	133.45	121.63
2	B	881	ASN	C-N-CA	6.19	133.45	121.63
1	A	1095	THR	CB-CA-C	-6.19	99.45	109.72
2	B	1002	THR	CA-C-O	6.18	128.58	121.47
1	A	1113	THR	OG1-CB-CG2	-6.18	96.94	109.30
5	F	136	ARG	CA-C-O	-6.18	113.96	120.58
9	K	31	VAL	N-CA-CB	-6.18	102.06	112.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1109	LYS	CD-CE-NZ	6.18	131.68	111.90
2	B	418	LYS	O-C-N	6.18	128.71	122.03
6	H	146	ARG	NE-CZ-NH1	6.18	127.68	121.50
8	J	2	ILE	CA-C-N	-6.18	110.69	122.13
8	J	2	ILE	C-N-CA	-6.18	110.69	122.13
1	A	866	PHE	N-CA-CB	-6.18	100.76	110.46
1	A	1376	THR	CB-CA-C	6.18	120.38	109.75
2	B	1036	ALA	CB-CA-C	-6.18	100.35	110.85
3	C	214	ASN	N-CA-C	6.18	118.97	108.90
4	E	104	ASN	N-CA-C	-6.18	102.73	111.56
4	E	161	LYS	CA-CB-CG	6.18	126.45	114.10
1	A	91	PHE	CA-C-O	-6.17	114.25	121.16
1	A	844	ALA	O-C-N	-6.17	114.38	122.59
2	B	956	THR	CA-C-O	-6.17	114.03	120.70
10	L	50	ASP	N-CA-CB	6.17	120.93	110.49
1	A	941	LYS	CA-CB-CG	-6.17	101.76	114.10
2	B	25	ILE	N-CA-CB	6.17	121.63	111.38
4	E	199	ILE	CA-C-N	-6.17	112.44	122.81
4	E	199	ILE	C-N-CA	-6.17	112.44	122.81
1	A	300	VAL	CA-C-O	6.17	127.71	121.17
1	A	1304	TRP	CB-CA-C	-6.17	98.11	109.46
1	A	545	GLN	CA-C-O	-6.17	113.40	120.24
2	B	1020	ARG	CA-C-O	6.17	128.78	118.91
1	A	302	THR	N-CA-CB	-6.16	100.40	110.14
4	E	88	VAL	N-CA-C	-6.16	99.00	107.99
1	A	983	ILE	N-CA-CB	6.16	117.35	110.51
2	B	699	GLU	CB-CA-C	-6.16	97.69	109.95
9	K	47	ARG	NH1-CZ-NH2	6.16	127.30	119.30
1	A	49	LYS	CA-CB-CG	-6.16	101.79	114.10
1	A	93	VAL	O-C-N	6.16	127.84	121.87
3	C	82	TYR	CB-CA-C	-6.16	100.61	109.84
4	E	146	HIS	CA-C-N	-6.16	112.18	122.64
4	E	146	HIS	C-N-CA	-6.16	112.18	122.64
5	F	89	GLU	N-CA-C	-6.16	104.49	111.14
6	H	87	ARG	CA-CB-CG	6.16	126.41	114.10
1	A	493	GLN	CA-C-O	6.15	126.64	119.32
5	F	146	TRP	CA-C-O	6.15	127.35	120.70
1	A	1326	ARG	NE-CZ-NH1	6.15	127.65	121.50
2	B	466	TRP	N-CA-CB	-6.15	100.09	110.49
2	B	710	LEU	CB-CG-CD2	6.15	129.15	110.70
8	J	46	CYS	N-CA-C	6.15	118.77	111.33
2	B	447	ALA	CA-C-N	6.15	131.19	123.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	447	ALA	C-N-CA	6.15	131.19	123.14
3	C	129	ILE	CA-CB-CG1	6.15	120.85	110.40
1	A	61	ILE	CB-CA-C	6.15	118.35	111.59
1	A	1060	PRO	CA-C-O	-6.15	114.33	121.34
1	A	894	GLU	CA-C-N	-6.15	112.04	120.28
1	A	894	GLU	C-N-CA	-6.15	112.04	120.28
1	A	432	VAL	O-C-N	-6.14	116.42	122.99
1	A	795	GLU	CB-CA-C	-6.14	100.41	110.85
1	A	851	HIS	CA-C-N	-6.14	109.01	121.18
1	A	851	HIS	C-N-CA	-6.14	109.01	121.18
2	B	20	ASP	N-CA-CB	6.14	119.00	109.97
2	B	550	ASP	CB-CA-C	6.14	117.53	108.87
1	A	70	CYS	N-CA-C	-6.14	104.85	112.90
2	B	978	ASP	N-CA-CB	-6.14	101.11	110.45
2	B	1203	LEU	O-C-N	-6.14	115.61	122.12
1	A	28	ARG	O-C-N	6.14	129.15	122.15
1	A	477	PRO	CA-CB-CG	6.14	116.17	104.50
1	A	972	HIS	CA-C-O	-6.14	114.47	122.45
2	B	684	LEU	N-CA-C	6.14	118.47	111.11
2	B	1196	ILE	N-CA-C	6.14	114.22	109.19
9	K	111	LEU	CD1-CG-CD2	6.14	124.30	110.80
1	A	157	ASP	OD1-CG-OD2	-6.13	108.18	122.90
2	B	408	LEU	N-CA-CB	-6.13	98.24	109.10
3	C	70	ILE	CA-C-N	6.13	126.34	119.90
3	C	70	ILE	C-N-CA	6.13	126.34	119.90
1	A	790	ASP	N-CA-C	6.13	119.88	111.54
1	A	1154	TYR	CA-C-O	-6.13	113.38	120.49
6	H	36	CYS	CA-C-N	6.13	132.44	122.81
6	H	36	CYS	C-N-CA	6.13	132.44	122.81
1	A	44	THR	N-CA-CB	6.13	120.85	110.49
1	A	620	LYS	CD-CE-NZ	6.13	131.52	111.90
6	H	55	LEU	CA-C-N	-6.13	114.27	122.42
6	H	55	LEU	C-N-CA	-6.13	114.27	122.42
2	B	620	ARG	CA-CB-CG	6.13	126.36	114.10
10	L	66	GLN	N-CA-C	6.13	119.64	110.14
1	A	565	ILE	CG1-CB-CG2	-6.13	92.32	110.70
1	A	1012	ARG	CA-CB-CG	6.13	126.35	114.10
4	E	178	ILE	N-CA-C	-6.13	99.38	108.45
7	I	114	GLN	CB-CA-C	6.13	121.97	110.63
2	B	1057	LYS	N-CA-C	6.12	118.49	111.02
2	B	407	ASP	N-CA-C	-6.12	99.26	109.24
3	C	89	GLU	CA-C-O	-6.12	113.62	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	159	ALA	CA-C-N	6.12	132.83	121.62
3	C	159	ALA	C-N-CA	6.12	132.83	121.62
1	A	801	GLU	CG-CD-OE2	-6.12	104.32	118.40
2	B	294	ASP	CB-CG-OD2	6.12	132.48	118.40
6	H	8	ASP	CA-C-O	-6.12	114.58	120.94
9	K	23	PRO	CA-C-N	-6.12	112.67	121.42
9	K	23	PRO	C-N-CA	-6.12	112.67	121.42
1	A	326	ARG	NE-CZ-NH2	6.12	124.71	119.20
1	A	533	LYS	CA-C-O	-6.12	114.02	120.63
1	A	122	MET	N-CA-CB	-6.12	100.24	110.39
1	A	761	MET	O-C-N	6.12	129.12	122.15
1	A	994	GLN	CB-CA-C	-6.12	100.28	110.68
2	B	517	THR	CB-CA-C	-6.12	97.78	109.95
8	J	56	LEU	CA-C-N	-6.12	110.81	120.47
8	J	56	LEU	C-N-CA	-6.12	110.81	120.47
1	A	1188	GLN	N-CA-C	6.11	118.69	108.73
2	B	196	PRO	CA-C-N	-6.11	110.69	122.06
2	B	196	PRO	C-N-CA	-6.11	110.69	122.06
9	K	32	VAL	CB-CA-C	-6.11	103.45	110.73
2	B	990	ILE	N-CA-C	-6.11	100.82	108.89
4	E	87	SER	CB-CA-C	6.11	121.04	109.37
4	E	207	ARG	O-C-N	-6.11	115.72	123.24
6	H	53	ASP	O-C-N	-6.11	114.46	122.59
6	H	115	TYR	O-C-N	-6.11	113.28	122.20
1	A	963	ILE	N-CA-C	6.11	118.69	111.05
2	B	652	LYS	O-C-N	-6.11	115.74	122.09
1	A	187	LYS	CA-C-N	6.11	133.21	121.54
1	A	187	LYS	C-N-CA	6.11	133.21	121.54
1	A	1307	GLU	CG-CD-OE2	-6.11	104.35	118.40
2	B	777	ALA	N-CA-C	-6.11	100.89	110.36
2	B	1170	THR	O-C-N	6.11	129.97	122.34
4	E	62	ALA	O-C-N	6.11	130.24	123.52
2	B	659	ALA	CA-C-N	-6.10	111.49	120.28
2	B	659	ALA	C-N-CA	-6.10	111.49	120.28
1	A	293	GLU	N-CA-CB	6.10	120.80	110.49
4	E	208	TYR	N-CA-C	6.10	119.18	108.75
5	F	120	ILE	CA-C-O	6.10	127.06	120.47
1	A	553	VAL	CA-C-O	6.10	128.12	119.95
1	A	878	ILE	N-CA-CB	-6.10	101.44	111.44
1	A	1150	SER	N-CA-CB	-6.10	101.46	110.85
1	A	1007	ILE	CA-C-N	-6.10	112.11	120.28
1	A	1007	ILE	C-N-CA	-6.10	112.11	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1129	GLU	CG-CD-OE1	6.10	132.42	118.40
1	A	1258	HIS	N-CA-CB	6.10	119.15	110.13
2	B	852	ARG	O-C-N	-6.09	116.08	122.96
6	H	103	LYS	CB-CG-CD	6.09	125.31	111.30
1	A	580	VAL	CA-C-O	6.09	127.40	119.85
1	A	1325	THR	CA-C-O	6.09	126.86	119.31
1	A	1435	PRO	CB-CA-C	-6.09	104.91	112.89
2	B	1149	GLU	CG-CD-OE2	6.09	132.41	118.40
4	E	60	PHE	O-C-N	-6.09	117.53	123.26
8	J	35	ALA	N-CA-C	6.09	118.42	111.11
3	C	226	ASP	N-CA-CB	6.09	119.28	110.88
1	A	1062	GLU	OE1-CD-OE2	6.09	137.51	122.90
2	B	761	HIS	CA-C-N	6.08	132.07	122.94
2	B	761	HIS	C-N-CA	6.08	132.07	122.94
3	C	23	SER	N-CA-C	-6.08	99.27	108.52
1	A	1285	MET	CG-SD-CE	6.08	114.28	100.90
2	B	364	ILE	O-C-N	-6.08	114.97	122.57
2	B	403	LYS	CA-CB-CG	-6.08	101.93	114.10
2	B	1148	LYS	CG-CD-CE	6.08	125.29	111.30
1	A	170	THR	CA-C-O	-6.08	114.64	121.81
1	A	361	LEU	O-C-N	6.08	129.10	122.11
2	B	451	LYS	N-CA-CB	-6.08	100.22	110.49
3	C	120	ILE	CB-CA-C	-6.08	104.64	111.45
2	B	1094	ARG	CB-CG-CD	6.08	125.28	111.30
2	B	1131	GLY	N-CA-C	6.08	122.51	112.30
9	K	4	PRO	N-CA-C	-6.08	99.72	111.69
1	A	300	VAL	O-C-N	-6.08	115.96	121.91
2	B	1028	GLU	CG-CD-OE2	6.08	132.38	118.40
3	C	254	LYS	CD-CE-NZ	-6.08	92.46	111.90
1	A	4	GLN	N-CA-CB	-6.07	101.11	110.46
1	A	601	LYS	N-CA-CB	-6.07	100.31	110.39
1	A	656	TRP	CZ3-CH2-CZ2	-6.07	113.61	121.50
3	C	94	LYS	O-C-N	6.07	130.37	122.42
1	A	451	HIS	O-C-N	-6.07	116.89	123.26
1	A	632	VAL	CA-C-O	6.07	127.78	121.29
4	E	137	GLU	N-CA-CB	-6.07	101.18	110.16
1	A	30	ILE	CA-C-N	-6.07	108.58	121.32
1	A	30	ILE	C-N-CA	-6.07	108.58	121.32
5	F	152	ILE	CA-C-O	-6.07	113.93	120.85
2	B	486	TYR	CA-C-O	6.07	126.98	120.55
2	B	513	GLN	N-CA-C	-6.07	101.54	110.52
2	B	966	VAL	CA-CB-CG1	6.06	120.70	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	995	ARG	CG-CD-NE	-6.06	98.66	112.00
2	B	1010	LEU	CB-CG-CD1	-6.06	92.51	110.70
3	C	45	ALA	O-C-N	6.06	129.99	123.56
2	B	411	PRO	CA-N-CD	6.06	120.48	112.00
3	C	113	VAL	CB-CA-C	-6.06	102.68	110.98
1	A	155	GLU	N-CA-C	-6.06	97.90	110.80
1	A	527	THR	N-CA-CB	-6.06	100.02	110.32
1	A	904	THR	OG1-CB-CG2	6.06	121.41	109.30
2	B	798	TYR	CB-CA-C	-6.05	103.28	111.21
2	B	963	PHE	N-CA-C	-6.05	100.03	109.72
4	E	186	LEU	CB-CA-C	-6.05	99.05	110.67
2	B	1102	LYS	O-C-N	6.05	130.64	122.59
1	A	704	ALA	O-C-N	6.05	129.79	122.96
1	A	1259	MET	N-CA-CB	6.05	119.01	110.12
2	B	186	GLU	CG-CD-OE1	-6.05	104.48	118.40
2	B	994	TYR	CZ-CE2-CD2	6.05	130.49	119.60
4	E	187	TYR	O-C-N	6.05	129.05	122.15
8	J	3	VAL	CG1-CB-CG2	6.05	124.11	110.80
6	H	88	SER	N-CA-C	6.05	123.68	110.80
1	A	590	ARG	CB-CA-C	6.05	120.74	109.86
2	B	790	ASP	CB-CG-OD2	-6.05	104.49	118.40
4	E	103	LYS	CA-CB-CG	6.05	126.19	114.10
7	I	38	ALA	O-C-N	6.05	130.26	123.19
2	B	826	ALA	N-CA-C	6.04	120.11	109.96
1	A	1240	CYS	CA-CB-SG	-6.04	100.50	114.40
2	B	266	ALA	CA-C-O	6.04	129.15	120.51
2	B	310	MET	CG-SD-CE	6.04	114.20	100.90
4	E	125	PRO	N-CA-C	-6.04	100.31	110.21
1	A	361	LEU	CA-C-O	-6.04	114.16	120.92
1	A	478	TYR	N-CA-C	-6.04	105.95	113.38
2	B	833	TYR	O-C-N	6.04	129.89	122.34
4	E	131	THR	CA-CB-CG2	6.04	120.77	110.50
2	B	287	ARG	NE-CZ-NH2	-6.04	113.77	119.20
1	A	483	ASP	CB-CA-C	-6.03	101.94	111.17
1	A	647	GLY	O-C-N	-6.03	115.40	122.34
2	B	805	THR	CA-C-O	6.03	128.90	121.60
6	H	40	LEU	CA-C-N	6.03	130.13	121.50
6	H	40	LEU	C-N-CA	6.03	130.13	121.50
2	B	573	GLN	CA-C-N	-6.03	115.85	123.15
2	B	573	GLN	C-N-CA	-6.03	115.85	123.15
3	C	89	GLU	CA-C-N	-6.03	110.02	121.54
3	C	89	GLU	C-N-CA	-6.03	110.02	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	947	PHE	CE1-CZ-CE2	-6.03	109.15	120.00
1	A	1280	GLU	CA-C-O	-6.03	111.89	120.51
2	B	169	ARG	CA-C-O	6.03	126.75	120.30
2	B	796	LEU	N-CA-CB	-6.03	100.58	110.41
2	B	1188	LYS	CG-CD-CE	6.03	125.17	111.30
2	B	1210	MET	CA-C-N	-6.03	113.58	123.05
2	B	1210	MET	C-N-CA	-6.03	113.58	123.05
8	J	1	MET	N-CA-CB	-6.03	100.25	110.50
2	B	261	ARG	CA-C-O	6.03	128.87	121.94
1	A	503	GLN	CA-C-N	-6.03	112.78	122.24
1	A	503	GLN	C-N-CA	-6.03	112.78	122.24
3	C	63	ILE	CA-C-O	-6.03	114.68	120.95
1	A	1241	ARG	NE-CZ-NH1	6.03	127.53	121.50
1	A	1382	THR	CA-CB-OG1	6.03	118.64	109.60
1	A	1208	THR	O-C-N	-6.02	116.17	123.16
1	A	694	THR	N-CA-C	6.02	117.53	110.97
1	A	1176	LEU	CD1-CG-CD2	-6.02	97.55	110.80
4	E	85	GLU	CG-CD-OE1	-6.02	104.55	118.40
1	A	164	ARG	O-C-N	-6.02	114.69	122.94
1	A	396	PRO	CA-C-N	-6.02	112.90	122.29
1	A	396	PRO	C-N-CA	-6.02	112.90	122.29
1	A	977	LYS	CA-C-O	6.02	126.05	119.91
2	B	319	GLU	CB-CG-CD	6.02	122.83	112.60
3	C	253	LYS	O-C-N	6.02	129.26	122.22
1	A	219	PHE	CA-C-O	-6.02	112.23	119.27
2	B	358	LYS	CB-CG-CD	6.02	125.14	111.30
7	I	119	THR	CB-CA-C	-6.02	100.68	110.79
1	A	1003	LYS	N-CA-CB	6.01	119.08	110.06
3	C	36	VAL	CA-C-N	-6.01	112.63	120.44
3	C	36	VAL	C-N-CA	-6.01	112.63	120.44
7	I	28	GLU	CA-CB-CG	6.01	126.12	114.10
7	I	75	CYS	N-CA-CB	6.01	118.62	110.14
1	A	622	VAL	CA-C-O	6.01	125.66	119.35
1	A	657	LEU	CD1-CG-CD2	-6.01	97.58	110.80
1	A	992	ASP	N-CA-C	-6.01	104.81	111.36
2	B	586	TRP	CB-CA-C	6.01	121.21	111.05
2	B	1010	LEU	CB-CA-C	-6.01	99.73	109.89
4	E	33	GLU	N-CA-C	-6.01	105.80	113.01
2	B	978	ASP	CA-C-O	-6.01	114.72	121.81
10	L	26	THR	CA-CB-CG2	6.01	120.71	110.50
1	A	486	GLU	N-CA-C	-6.00	100.22	109.52
8	J	42	LYS	CA-C-N	-6.00	111.42	121.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	J	42	LYS	C-N-CA	-6.00	111.42	121.39
1	A	81	PHE	CD1-CG-CD2	-6.00	109.60	118.60
1	A	687	LYS	N-CA-C	6.00	119.70	112.38
1	A	698	GLN	CA-C-O	-6.00	113.07	119.97
1	A	728	LYS	CB-CG-CD	6.00	125.10	111.30
1	A	1427	ASN	N-CA-C	6.00	119.86	112.54
3	C	11	ARG	CA-C-N	-6.00	110.64	121.62
3	C	11	ARG	C-N-CA	-6.00	110.64	121.62
4	E	57	MET	N-CA-CB	6.00	120.18	110.40
3	C	96	SER	CA-CB-OG	6.00	123.10	111.10
5	F	107	VAL	N-CA-CB	-6.00	102.39	112.47
2	B	435	THR	CB-CA-C	6.00	121.46	111.51
1	A	1311	VAL	CG1-CB-CG2	-5.99	97.62	110.80
3	C	116	LYS	CA-C-O	-5.99	112.54	119.61
2	B	25	ILE	CA-C-O	-5.99	114.73	121.98
2	B	843	GLN	CA-C-N	-5.99	112.25	120.28
2	B	843	GLN	C-N-CA	-5.99	112.25	120.28
2	B	806	THR	CA-CB-CG2	5.99	120.68	110.50
3	C	252	GLN	CA-CB-CG	5.99	126.08	114.10
1	A	347	PHE	N-CA-C	5.99	119.94	111.92
2	B	722	ASP	CB-CG-OD1	5.99	132.18	118.40
3	C	34	ARG	CG-CD-NE	-5.99	98.83	112.00
4	E	53	PRO	CA-C-N	-5.99	114.61	123.11
4	E	53	PRO	C-N-CA	-5.99	114.61	123.11
1	A	1222	ASN	N-CA-CB	5.99	118.69	110.01
2	B	292	ILE	N-CA-C	5.99	121.81	108.88
1	A	984	LYS	CG-CD-CE	5.98	125.06	111.30
1	A	1206	ASP	O-C-N	5.98	129.97	122.55
4	E	123	LEU	N-CA-C	5.98	123.54	110.80
5	F	154	ASP	CB-CA-C	5.98	121.47	110.10
1	A	17	VAL	CG1-CB-CG2	-5.98	97.64	110.80
1	A	80	HIS	CB-CA-C	5.98	120.30	109.83
1	A	518	LYS	CD-CE-NZ	-5.98	92.76	111.90
1	A	1407	GLU	N-CA-C	-5.98	98.06	110.80
3	C	221	TYR	CA-C-N	-5.98	112.75	122.26
3	C	221	TYR	C-N-CA	-5.98	112.75	122.26
4	E	106	GLN	CA-C-O	-5.98	112.03	119.38
6	H	17	PRO	N-CD-CG	-5.98	94.23	103.20
7	I	111	THR	CB-CA-C	-5.98	99.40	109.50
1	A	218	ASP	O-C-N	-5.97	114.92	122.27
1	A	544	ASP	CA-C-N	5.97	130.80	120.58
1	A	544	ASP	C-N-CA	5.97	130.80	120.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	123	LYS	N-CA-C	5.97	118.28	111.11
1	A	953	ASN	CA-C-O	5.97	126.75	120.36
2	B	434	ARG	CB-CA-C	5.97	121.38	111.23
2	B	898	LEU	CA-C-O	-5.97	112.86	120.14
6	H	125	LEU	CB-CA-C	-5.97	101.06	110.79
7	I	16	PRO	N-CD-CG	-5.97	94.24	103.20
4	E	16	PHE	CA-C-N	-5.97	112.48	120.54
4	E	16	PHE	C-N-CA	-5.97	112.48	120.54
1	A	58	LEU	N-CA-CB	5.97	120.58	110.49
1	A	54	ASN	CA-C-O	-5.97	111.98	120.51
1	A	226	GLU	N-CA-C	-5.97	104.58	112.34
1	A	1447	GLU	N-CA-CB	5.97	119.15	110.26
2	B	942	ARG	CG-CD-NE	-5.97	98.87	112.00
1	A	68	GLN	CB-CG-CD	5.96	122.74	112.60
3	C	119	VAL	CA-CB-CG1	-5.96	100.26	110.40
6	H	12	VAL	N-CA-CB	-5.96	103.97	111.31
2	B	48	LEU	N-CA-C	5.96	121.15	111.37
2	B	253	THR	N-CA-C	5.96	118.45	108.73
1	A	858	ASN	CB-CG-ND2	5.96	125.34	116.40
4	E	12	LEU	CA-C-O	5.96	126.87	120.55
1	A	1131	ALA	CA-C-O	-5.96	113.62	120.24
2	B	239	GLU	N-CA-CB	-5.96	100.34	111.13
7	I	13	MET	N-CA-C	5.96	118.45	110.35
1	A	559	VAL	O-C-N	-5.96	115.10	122.97
1	A	1206	ASP	N-CA-C	-5.96	103.17	111.39
2	B	582	VAL	CG1-CB-CG2	-5.96	97.69	110.80
2	B	1065	GLN	CA-C-N	-5.96	111.59	122.38
2	B	1065	GLN	C-N-CA	-5.96	111.59	122.38
7	I	97	MET	O-C-N	-5.96	114.57	122.20
1	A	573	SER	CA-C-O	5.96	128.75	121.72
2	B	974	PRO	CB-CG-CD	-5.96	87.04	106.10
1	A	1295	THR	OG1-CB-CG2	-5.96	97.39	109.30
1	A	188	ASP	CB-CG-OD2	5.95	132.09	118.40
1	A	441	PRO	CA-C-O	-5.95	114.24	121.03
1	A	877	HIS	O-C-N	-5.95	114.51	122.19
1	A	519	PRO	N-CD-CG	5.95	112.13	103.20
3	C	223	ALA	O-C-N	5.95	129.57	122.79
1	A	152	VAL	CA-CB-CG1	5.95	120.51	110.40
1	A	843	LYS	CA-C-O	-5.95	114.58	120.82
1	A	973	ILE	CA-CB-CG2	5.95	120.61	110.50
1	A	1111	MET	O-C-N	-5.95	116.07	122.85
2	B	797	TYR	O-C-N	5.95	128.20	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1083	ALA	CA-C-N	-5.95	111.91	122.74
2	B	1083	ALA	C-N-CA	-5.95	111.91	122.74
1	A	65	LEU	CB-CG-CD2	5.95	128.54	110.70
2	B	326	ASP	CB-CG-OD2	5.95	132.08	118.40
6	H	113	ALA	O-C-N	-5.95	116.13	123.44
1	A	123	ARG	N-CA-CB	5.95	119.50	110.28
1	A	548	ASN	O-C-N	-5.95	114.96	122.27
2	B	312	GLU	CB-CA-C	5.95	123.50	110.18
4	E	9	ILE	CA-CB-CG2	5.95	120.61	110.50
6	H	62	SER	N-CA-CB	5.95	120.54	110.49
7	I	24	ARG	CB-CA-C	-5.95	97.60	109.79
2	B	520	GLY	O-C-N	-5.94	114.61	122.28
1	A	1093	LYS	CG-CD-CE	5.94	124.97	111.30
1	A	69	THR	CB-CA-C	5.94	122.24	110.42
1	A	932	GLU	CA-CB-CG	5.94	125.98	114.10
1	A	1331	SER	CB-CA-C	-5.94	101.70	111.68
2	B	840	ILE	CA-CB-CG2	-5.94	100.40	110.50
1	A	563	PRO	N-CA-CB	5.94	108.85	103.33
2	B	696	GLU	CG-CD-OE1	-5.94	104.74	118.40
1	A	305	ASP	CB-CG-OD2	5.94	132.05	118.40
2	B	977	GLY	N-CA-C	-5.94	106.89	114.37
2	B	433	GLN	N-CA-CB	5.93	119.13	110.47
2	B	466	TRP	CA-C-N	5.93	132.38	121.70
2	B	466	TRP	C-N-CA	5.93	132.38	121.70
1	A	813	PHE	CA-C-O	5.93	126.71	120.42
1	A	1005	GLU	CG-CD-OE1	5.93	132.04	118.40
10	L	49	LYS	CA-C-N	5.93	132.87	121.54
10	L	49	LYS	C-N-CA	5.93	132.87	121.54
1	A	1165	GLU	CB-CG-CD	-5.93	102.52	112.60
2	B	1150	ARG	N-CA-C	5.93	120.25	112.89
6	H	42	ILE	N-CA-C	5.93	117.23	108.45
1	A	1218	GLN	N-CA-CB	5.93	119.37	110.53
2	B	519	TRP	N-CA-C	5.93	119.42	110.64
2	B	838	SER	CA-CB-OG	5.93	122.96	111.10
2	B	996	ARG	NE-CZ-NH1	-5.93	115.57	121.50
2	B	1171	VAL	CB-CA-C	5.93	119.28	111.33
1	A	176	LYS	CD-CE-NZ	5.93	130.86	111.90
1	A	226	GLU	CA-C-O	-5.93	112.62	119.61
1	A	891	ALA	O-C-N	-5.93	115.97	122.07
2	B	166	PHE	N-CA-CB	-5.93	101.64	110.17
2	B	555	ILE	O-C-N	-5.93	116.08	121.89
3	C	85	ASP	N-CA-CB	-5.93	101.16	110.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1147	THR	CA-C-O	5.92	126.89	120.43
3	C	4	GLU	O-C-N	5.92	130.47	122.59
3	C	34	ARG	NE-CZ-NH2	-5.92	113.87	119.20
6	H	115	TYR	N-CA-C	5.92	120.53	113.12
1	A	290	GLU	CB-CA-C	-5.92	100.61	110.68
1	A	890	ASP	CA-C-O	5.92	126.70	120.42
1	A	1378	GLN	CB-CG-CD	-5.92	102.53	112.60
2	B	830	TYR	CA-C-O	5.92	126.85	120.63
2	B	1058	LEU	CB-CG-CD2	-5.92	92.94	110.70
9	K	5	ASP	CB-CG-OD1	-5.92	104.78	118.40
10	L	69	ALA	O-C-N	5.92	130.35	122.41
1	A	949	ASP	CB-CG-OD2	5.92	132.02	118.40
2	B	641	GLU	OE1-CD-OE2	-5.92	108.70	122.90
2	B	481	GLN	CG-CD-NE2	-5.92	107.53	116.40
1	A	921	GLY	CA-C-N	-5.92	112.43	121.66
1	A	921	GLY	C-N-CA	-5.92	112.43	121.66
1	A	172	PRO	CA-C-O	5.91	128.88	121.67
1	A	469	ARG	CA-CB-CG	5.91	125.92	114.10
1	A	1028	THR	CA-C-N	-5.91	112.75	120.44
1	A	1028	THR	C-N-CA	-5.91	112.75	120.44
2	B	731	VAL	N-CA-C	-5.91	99.83	108.11
1	A	235	ILE	N-CA-CB	-5.91	100.28	111.21
1	A	1196	GLU	O-C-N	-5.91	116.30	123.27
2	B	322	PHE	CA-C-O	-5.91	113.17	119.97
5	F	97	ARG	NE-CZ-NH2	-5.91	113.88	119.20
2	B	1110	PRO	N-CD-CG	5.91	112.06	103.20
2	B	1164	GLY	CA-C-O	5.91	126.54	119.10
4	E	71	LYS	N-CA-C	5.91	120.62	113.41
9	K	12	LEU	CA-CB-CG	-5.91	95.62	116.30
9	K	64	GLU	N-CA-C	5.91	120.21	112.89
1	A	837	ILE	CA-CB-CG2	5.91	120.54	110.50
9	K	73	LEU	CB-CA-C	-5.91	97.66	109.35
1	A	393	ARG	CB-CA-C	-5.90	100.81	110.85
1	A	683	ILE	CA-C-O	-5.90	114.50	121.05
1	A	1221	LYS	O-C-N	5.90	130.44	122.59
2	B	999	MET	CA-C-N	5.90	125.81	119.85
2	B	999	MET	C-N-CA	5.90	125.81	119.85
2	B	1061	GLU	CG-CD-OE2	-5.90	104.82	118.40
1	A	291	GLU	N-CA-C	-5.90	104.43	111.69
1	A	435	HIS	CA-C-O	-5.90	115.38	121.87
2	B	174	LEU	O-C-N	-5.90	115.90	122.86
2	B	879	ARG	N-CA-CB	5.90	120.46	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	228	PHE	O-C-N	5.90	130.98	122.13
2	B	223	VAL	CA-CB-CG2	5.90	120.42	110.40
3	C	23	SER	O-C-N	5.90	129.81	123.56
9	K	107	THR	OG1-CB-CG2	5.90	121.10	109.30
1	A	968	GLN	N-CA-C	5.90	119.57	112.38
1	A	1228	TRP	CA-CB-CG	5.90	124.80	113.60
2	B	350	GLN	N-CA-CB	-5.90	101.22	110.30
2	B	414	ALA	CA-C-N	5.90	128.50	120.54
2	B	414	ALA	C-N-CA	5.90	128.50	120.54
2	B	1188	LYS	N-CA-C	-5.90	105.84	114.39
8	J	38	ARG	NH1-CZ-NH2	-5.90	111.64	119.30
2	B	1031	LEU	CA-C-O	-5.89	112.83	119.79
9	K	42	LEU	CB-CA-C	-5.89	100.83	110.85
2	B	42	GLY	N-CA-C	5.89	127.14	113.18
3	C	205	LYS	CB-CG-CD	5.89	124.86	111.30
1	A	396	PRO	CA-N-CD	5.89	120.25	112.00
1	A	759	ALA	CA-C-N	-5.89	110.67	120.68
1	A	759	ALA	C-N-CA	-5.89	110.67	120.68
1	A	932	GLU	CB-CA-C	-5.89	101.59	110.90
1	A	1329	THR	O-C-N	-5.89	116.88	123.48
2	B	387	LEU	CB-CG-CD1	-5.89	93.03	110.70
7	I	92	ARG	O-C-N	5.89	130.85	123.19
2	B	457	LEU	N-CA-C	-5.89	99.14	110.56
1	A	511	ILE	N-CA-C	5.89	116.35	110.23
1	A	635	ARG	CA-CB-CG	5.89	125.87	114.10
1	A	1028	THR	OG1-CB-CG2	-5.89	97.53	109.30
3	C	111	THR	CA-CB-OG1	5.89	118.43	109.60
1	A	790	ASP	CA-C-O	-5.88	114.71	121.54
2	B	664	THR	N-CA-C	-5.88	104.99	111.82
4	E	113	GLN	CA-C-N	-5.88	110.30	121.54
4	E	113	GLN	C-N-CA	-5.88	110.30	121.54
1	A	636	GLU	OE1-CD-OE2	-5.88	108.78	122.90
1	A	377	PRO	CB-CA-C	-5.88	101.86	111.56
1	A	557	ASP	OD1-CG-OD2	-5.88	108.78	122.90
4	E	198	ILE	CA-C-N	-5.88	115.47	123.12
4	E	198	ILE	C-N-CA	-5.88	115.47	123.12
1	A	460	VAL	N-CA-C	-5.88	102.00	109.58
1	A	461	LYS	CB-CA-C	-5.88	100.40	110.16
10	L	70	ARG	N-CA-C	5.88	127.46	111.00
1	A	366	VAL	N-CA-C	-5.88	100.61	107.61
2	B	213	ILE	N-CA-C	-5.88	99.95	108.36
2	B	463	THR	OG1-CB-CG2	-5.88	97.54	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	I	12	ASN	CB-CA-C	5.88	119.50	109.80
1	A	373	THR	OG1-CB-CG2	-5.88	97.55	109.30
1	A	1234	GLU	CA-CB-CG	5.88	125.85	114.10
2	B	170	LEU	CD1-CG-CD2	5.88	123.73	110.80
2	B	311	LEU	CA-C-N	-5.88	111.17	120.63
2	B	311	LEU	C-N-CA	-5.88	111.17	120.63
2	B	1025	HIS	ND1-CE1-NE2	-5.88	102.52	108.40
1	A	214	ILE	N-CA-C	-5.87	99.94	108.87
1	A	837	ILE	CA-CB-CG1	-5.87	100.42	110.40
1	A	1210	GLY	CA-C-N	5.87	128.43	120.44
1	A	1210	GLY	C-N-CA	5.87	128.43	120.44
2	B	878	GLN	N-CA-C	5.87	123.30	110.80
7	I	96	SER	CA-C-N	-5.87	113.88	122.86
7	I	96	SER	C-N-CA	-5.87	113.88	122.86
2	B	1163	CYS	CB-CA-C	5.87	120.34	109.54
6	H	95	TYR	CA-C-O	5.87	128.15	120.11
8	J	47	ARG	CA-CB-CG	-5.87	102.36	114.10
6	H	136	LYS	CB-CA-C	5.87	122.09	110.42
1	A	678	GLU	CG-CD-OE2	5.87	131.89	118.40
7	I	8	ARG	CA-CB-CG	5.87	125.83	114.10
8	J	20	SER	N-CA-C	5.87	119.54	112.38
1	A	86	LEU	CB-CG-CD2	5.86	128.29	110.70
1	A	1277	GLU	N-CA-C	5.86	118.73	110.23
2	B	89	GLU	CA-CB-CG	5.86	125.83	114.10
4	E	110	PHE	N-CA-CB	-5.86	101.50	110.65
5	F	131	PRO	CA-C-O	-5.86	113.42	122.57
1	A	391	LEU	CD1-CG-CD2	-5.86	97.90	110.80
4	E	130	ALA	CB-CA-C	5.86	119.04	109.90
2	B	117	ALA	CA-C-N	-5.86	112.47	120.44
2	B	117	ALA	C-N-CA	-5.86	112.47	120.44
2	B	285	ILE	O-C-N	-5.86	116.08	121.94
2	B	639	ILE	CB-CA-C	-5.86	103.18	111.21
2	B	876	LYS	O-C-N	-5.86	114.58	121.32
7	I	93	LYS	N-CA-CB	5.86	118.73	110.12
4	E	88	VAL	CB-CA-C	5.86	119.01	110.98
2	B	276	ILE	CA-CB-CG2	-5.86	100.54	110.50
2	B	751	VAL	N-CA-CB	5.86	117.40	110.55
5	F	90	ARG	NE-CZ-NH1	-5.86	115.64	121.50
6	H	17	PRO	N-CA-C	-5.86	107.18	114.68
1	A	508	PRO	CB-CG-CD	-5.86	87.36	106.10
2	B	598	GLU	OE1-CD-OE2	-5.86	108.85	122.90
2	B	667	GLN	O-C-N	5.86	130.23	122.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	88	CYS	CA-C-N	-5.86	113.93	122.19
3	C	88	CYS	C-N-CA	-5.86	113.93	122.19
1	A	471	ASN	CA-C-O	-5.85	114.74	121.47
2	B	609	ILE	CA-C-N	-5.85	112.25	120.39
2	B	609	ILE	C-N-CA	-5.85	112.25	120.39
7	I	55	THR	CA-CB-CG2	5.85	120.45	110.50
10	L	63	ARG	N-CA-C	-5.85	101.99	110.24
1	A	32	VAL	N-CA-CB	-5.85	101.58	111.23
1	A	981	LEU	O-C-N	-5.85	115.67	122.87
3	C	6	PRO	O-C-N	5.85	128.60	122.93
1	A	716	ASP	OD1-CG-OD2	5.85	136.94	122.90
1	A	942	PHE	CA-CB-CG	5.85	119.65	113.80
9	K	74	ARG	N-CA-C	-5.85	98.75	108.34
1	A	42	ASP	CB-CG-OD2	5.84	131.84	118.40
1	A	893	PHE	N-CA-C	-5.84	104.50	111.69
1	A	1176	LEU	CB-CG-CD1	5.84	128.23	110.70
4	E	165	LEU	CA-C-N	-5.84	112.49	120.44
4	E	165	LEU	C-N-CA	-5.84	112.49	120.44
1	A	10	PRO	CA-C-O	-5.84	114.65	121.95
2	B	836	GLU	CA-C-N	5.84	131.04	122.63
2	B	836	GLU	C-N-CA	5.84	131.04	122.63
7	I	92	ARG	CA-CB-CG	5.84	125.78	114.10
10	L	43	THR	CA-CB-CG2	5.84	120.43	110.50
1	A	458	HIS	CA-CB-CG	-5.84	107.96	113.80
1	A	912	LEU	CB-CG-CD2	5.84	128.21	110.70
1	A	915	SER	CA-C-N	-5.84	110.57	120.79
1	A	915	SER	C-N-CA	-5.84	110.57	120.79
1	A	995	GLU	CA-C-O	-5.84	112.07	119.31
1	A	1029	ARG	CB-CA-C	-5.84	101.72	110.88
1	A	1169	ILE	CA-C-O	5.84	127.04	120.85
1	A	575	LYS	N-CA-C	5.84	121.00	111.37
1	A	1274	ARG	NE-CZ-NH1	-5.84	115.66	121.50
1	A	1438	THR	O-C-N	-5.84	114.41	122.46
1	A	1442	ASP	CB-CA-C	-5.84	99.27	110.24
2	B	633	VAL	CA-CB-CG2	5.83	120.32	110.40
7	I	35	VAL	CB-CA-C	-5.83	100.44	110.30
1	A	173	THR	OG1-CB-CG2	-5.83	97.63	109.30
1	A	1353	TYR	N-CA-C	-5.83	105.00	111.36
2	B	137	TYR	N-CA-CB	5.83	120.35	110.49
2	B	448	ILE	N-CA-C	5.83	116.28	108.11
2	B	601	ARG	NH1-CZ-NH2	5.83	126.88	119.30
2	B	1050	ILE	CG1-CB-CG2	-5.83	93.20	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	241	ARG	CA-CB-CG	-5.83	102.44	114.10
2	B	274	PRO	CA-N-CD	-5.83	103.84	112.00
2	B	411	PRO	N-CA-CB	-5.83	97.09	103.39
6	H	89	LEU	CA-CB-CG	5.83	136.71	116.30
10	L	69	ALA	CA-C-O	5.83	128.22	121.28
3	C	124	LEU	CB-CA-C	-5.83	97.44	110.21
2	B	488	TYR	CA-C-O	5.83	126.73	120.55
1	A	839	ARG	CG-CD-NE	-5.83	99.19	112.00
2	B	564	GLU	CA-C-O	-5.83	114.77	120.19
1	A	456	MET	CA-C-O	-5.82	114.58	121.16
1	A	563	PRO	N-CA-C	5.82	120.64	111.38
1	A	917	SER	CA-CB-OG	-5.82	99.45	111.10
2	B	486	TYR	CB-CA-C	-5.82	101.12	110.79
4	E	67	GLU	CB-CG-CD	5.82	122.50	112.60
6	H	110	ASP	O-C-N	5.82	130.07	122.15
1	A	506	ALA	CB-CA-C	-5.82	100.06	109.72
2	B	619	ILE	CA-C-N	-5.82	112.19	122.26
2	B	619	ILE	C-N-CA	-5.82	112.19	122.26
4	E	208	TYR	CD1-CG-CD2	-5.82	109.37	118.10
1	A	756	ILE	CB-CA-C	5.82	119.67	112.04
2	B	63	ILE	CA-C-O	5.82	127.07	120.03
3	C	179	GLU	CA-C-O	-5.82	115.04	121.33
5	F	149	GLU	CB-CA-C	-5.82	101.08	110.74
1	A	617	VAL	N-CA-CB	-5.82	104.40	111.21
1	A	708	MET	N-CA-CB	-5.82	100.72	110.32
2	B	1139	ILE	CB-CA-C	-5.82	102.84	112.26
6	H	29	ALA	N-CA-C	5.82	119.44	110.42
2	B	31	TRP	O-C-N	-5.82	114.83	122.39
2	B	621	GLU	CG-CD-OE1	-5.82	105.02	118.40
5	F	112	GLU	CG-CD-OE2	5.82	131.78	118.40
1	A	77	CYS	N-CA-C	-5.81	100.20	109.04
1	A	635	ARG	NE-CZ-NH1	-5.81	115.69	121.50
2	B	778	MET	CG-SD-CE	5.81	113.69	100.90
1	A	280	GLU	CA-CB-CG	5.81	125.72	114.10
1	A	764	CYS	N-CA-CB	-5.81	101.12	110.77
2	B	1096	ARG	N-CA-CB	5.81	118.34	110.38
5	F	112	GLU	N-CA-CB	5.81	117.77	110.45
1	A	1111	MET	N-CA-CB	-5.81	101.62	110.45
2	B	529	GLU	CA-C-O	5.81	128.57	121.72
7	I	12	ASN	N-CA-C	-5.81	101.42	110.42
4	E	23	VAL	CA-C-O	5.80	127.32	121.17
4	E	195	VAL	CG1-CB-CG2	-5.80	98.03	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	910	PRO	N-CD-CG	-5.80	94.50	103.20
3	C	156	THR	CB-CA-C	-5.80	98.75	109.37
1	A	207	ILE	CB-CA-C	-5.80	104.39	111.87
2	B	57	TYR	CD1-CG-CD2	-5.80	109.40	118.10
3	C	171	GLY	N-CA-C	5.80	124.17	112.34
5	F	128	LYS	N-CA-CB	5.80	121.29	112.47
1	A	902	LEU	CA-C-N	-5.80	112.58	122.33
1	A	902	LEU	C-N-CA	-5.80	112.58	122.33
2	B	46	GLN	CA-C-O	-5.80	114.40	120.55
2	B	697	GLU	CB-CG-CD	5.80	122.46	112.60
4	E	11	ARG	CA-CB-CG	-5.80	102.50	114.10
2	B	303	TYR	CB-CA-C	-5.80	104.09	111.22
2	B	228	LYS	CG-CD-CE	5.80	124.63	111.30
2	B	879	ARG	CG-CD-NE	5.80	124.75	112.00
2	B	579	ARG	O-C-N	-5.79	116.17	123.01
1	A	873	MET	N-CA-CB	-5.79	101.19	110.46
1	A	1352	VAL	CA-C-O	5.79	126.99	120.85
1	A	1433	MET	CB-CA-C	-5.79	100.30	109.80
2	B	1037	LEU	CD1-CG-CD2	-5.79	98.06	110.80
1	A	862	ASN	N-CA-C	5.79	118.17	110.53
3	C	38	ILE	CG1-CB-CG2	-5.79	93.33	110.70
9	K	113	THR	O-C-N	5.79	130.76	123.23
1	A	928	LEU	CA-C-O	-5.79	114.94	120.90
2	B	947	GLY	CA-C-O	-5.79	110.50	120.57
1	A	705	LYS	N-CA-CB	5.79	124.44	110.32
2	B	101	MET	CB-CA-C	-5.79	100.71	110.43
3	C	248	ILE	CB-CA-C	-5.79	104.47	111.88
2	B	792	MET	N-CA-C	5.78	118.64	108.75
3	C	145	CYS	CA-C-O	-5.78	115.26	121.45
3	C	233	GLU	CG-CD-OE2	-5.78	105.10	118.40
4	E	81	GLU	CG-CD-OE2	-5.78	105.10	118.40
2	B	863	GLU	N-CA-C	5.78	117.44	109.29
1	A	895	LYS	CB-CG-CD	5.78	124.60	111.30
2	B	235	SER	N-CA-C	5.78	120.99	113.88
1	A	209	ASN	N-CA-CB	5.78	118.87	110.26
2	B	862	GLN	CA-C-N	-5.78	111.97	123.99
2	B	862	GLN	C-N-CA	-5.78	111.97	123.99
2	B	1046	PRO	N-CD-CG	5.78	111.87	103.20
7	I	33	SER	CA-C-O	-5.78	113.54	120.65
1	A	440	ASP	N-CA-C	-5.78	102.49	109.83
7	I	3	THR	CB-CA-C	-5.78	103.85	111.82
7	I	98	VAL	CA-C-N	5.78	131.26	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	I	98	VAL	C-N-CA	5.78	131.26	122.65
2	B	751	VAL	O-C-N	-5.78	116.25	121.91
10	L	65	VAL	O-C-N	5.78	129.28	123.10
1	A	17	VAL	CA-C-O	5.77	126.48	120.36
1	A	411	ASP	CB-CA-C	-5.77	100.65	109.89
2	B	801	LYS	N-CA-C	-5.77	102.32	110.29
1	A	204	THR	CA-C-O	-5.77	114.73	120.90
1	A	699	ALA	CA-C-O	5.77	126.68	119.12
1	A	1289	ARG	CB-CG-CD	5.77	124.57	111.30
2	B	379	GLY	N-CA-C	5.77	119.65	112.73
2	B	813	LYS	N-CA-C	5.77	119.62	112.24
3	C	190	ASP	N-CA-C	5.77	117.81	108.41
6	H	4	THR	O-C-N	-5.77	115.11	122.78
7	I	66	PRO	CB-CA-C	-5.77	102.33	111.04
9	K	26	LYS	O-C-N	-5.77	115.47	122.22
2	B	702	LEU	N-CA-C	-5.77	98.48	108.69
2	B	723	VAL	CA-C-O	-5.77	114.51	121.54
2	B	318	VAL	N-CA-C	5.76	116.50	110.62
1	A	613	ILE	CB-CA-C	-5.76	106.81	111.71
1	A	618	GLU	OE1-CD-OE2	5.76	136.72	122.90
2	B	218	SER	O-C-N	-5.76	116.06	122.86
3	C	18	VAL	CA-C-O	-5.76	113.58	120.78
6	H	91	ASP	CA-CB-CG	-5.76	106.84	112.60
1	A	460	VAL	CA-C-N	5.76	131.12	123.00
1	A	460	VAL	C-N-CA	5.76	131.12	123.00
4	E	72	PHE	O-C-N	5.76	126.68	121.04
1	A	896	ARG	CD-NE-CZ	-5.76	116.34	124.40
2	B	66	ASP	N-CA-C	5.76	123.06	110.80
6	H	117	SER	O-C-N	5.76	130.38	123.36
1	A	1281	ARG	NE-CZ-NH2	5.75	124.38	119.20
5	F	93	ILE	O-C-N	-5.75	115.75	121.96
1	A	1293	SER	N-CA-C	5.75	119.02	110.39
1	A	1358	SER	N-CA-CB	5.75	118.41	110.07
2	B	240	ILE	CA-C-O	-5.75	114.43	120.76
2	B	350	GLN	CB-CG-CD	-5.75	102.82	112.60
2	B	1175	LEU	O-C-N	5.75	129.13	122.17
6	H	104	PHE	CA-C-O	5.75	128.73	120.51
1	A	574	GLY	CA-C-N	-5.75	112.20	120.82
1	A	574	GLY	C-N-CA	-5.75	112.20	120.82
2	B	744	HIS	ND1-CE1-NE2	-5.75	102.65	108.40
4	E	181	ALA	N-CA-CB	-5.75	102.63	110.56
9	K	40	HIS	CA-C-O	5.75	126.60	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	372	LYS	CD-CE-NZ	-5.75	93.51	111.90
3	C	93	ASP	N-CA-CB	-5.75	100.76	110.41
8	J	28	ASP	N-CA-CB	5.75	120.46	110.98
1	A	379	VAL	CG1-CB-CG2	-5.75	98.16	110.80
2	B	226	PHE	CA-C-O	-5.75	112.45	120.21
2	B	240	ILE	CA-C-N	5.75	131.27	122.77
2	B	240	ILE	C-N-CA	5.75	131.27	122.77
2	B	312	GLU	CA-C-N	5.74	130.44	120.68
2	B	312	GLU	C-N-CA	5.74	130.44	120.68
3	C	97	VAL	CA-CB-CG1	-5.74	100.64	110.40
2	B	684	LEU	CB-CG-CD1	-5.74	93.48	110.70
3	C	207	CYS	CA-CB-SG	5.74	127.61	114.40
2	B	289	LEU	O-C-N	-5.74	115.45	122.34
6	H	141	TYR	CA-C-O	-5.74	115.04	121.81
10	L	26	THR	N-CA-CB	5.74	120.19	110.49
2	B	268	THR	CB-CA-C	5.74	121.02	110.24
1	A	140	THR	CA-C-N	-5.73	111.11	121.14
1	A	140	THR	C-N-CA	-5.73	111.11	121.14
1	A	1064	VAL	CA-CB-CG1	5.73	120.14	110.40
2	B	274	PRO	O-C-N	5.73	129.51	123.03
2	B	1153	GLU	N-CA-CB	-5.73	101.92	110.17
3	C	107	SER	CA-CB-OG	-5.73	99.64	111.10
10	L	65	VAL	CB-CA-C	-5.73	101.67	110.50
2	B	420	LEU	CB-CA-C	-5.73	98.86	109.29
5	F	110	ASP	N-CA-C	5.73	118.02	109.25
7	I	28	GLU	CB-CG-CD	5.73	122.34	112.60
1	A	554	PRO	CB-CA-C	-5.73	103.72	111.85
1	A	1379	GLY	N-CA-C	5.73	122.36	114.92
1	A	1407	GLU	CA-CB-CG	5.73	125.55	114.10
2	B	266	ALA	CA-C-N	-5.73	112.99	121.24
2	B	266	ALA	C-N-CA	-5.73	112.99	121.24
4	E	154	ILE	N-CA-C	-5.73	99.25	107.78
9	K	64	GLU	O-C-N	-5.73	114.56	122.46
4	E	35	VAL	N-CA-C	-5.73	104.76	111.00
1	A	127	ALA	N-CA-C	5.72	118.29	111.71
2	B	905	VAL	CA-C-N	-5.72	112.48	122.84
2	B	905	VAL	C-N-CA	-5.72	112.48	122.84
2	B	1043	ASP	CB-CG-OD2	5.72	131.57	118.40
3	C	214	ASN	CA-CB-CG	5.72	118.32	112.60
2	B	237	VAL	CA-C-N	-5.72	113.46	122.73
2	B	237	VAL	C-N-CA	-5.72	113.46	122.73
2	B	317	CYS	N-CA-C	-5.72	104.96	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	180	ARG	CA-C-N	-5.72	113.15	122.65
4	E	180	ARG	C-N-CA	-5.72	113.15	122.65
1	A	1128	GLN	O-C-N	-5.72	114.98	122.59
2	B	520	GLY	CA-C-O	5.72	125.10	119.04
7	I	18	GLU	N-CA-C	-5.72	99.96	109.46
10	L	70	ARG	NE-CZ-NH2	-5.72	114.05	119.20
1	A	506	ALA	N-CA-C	5.72	118.52	110.23
1	A	1199	ARG	NE-CZ-NH1	-5.72	115.78	121.50
2	B	493	SER	N-CA-C	5.72	118.29	111.71
7	I	23	ASN	CA-C-N	-5.72	113.61	122.59
7	I	23	ASN	C-N-CA	-5.72	113.61	122.59
1	A	99	ILE	CA-CB-CG2	-5.72	100.78	110.50
1	A	546	VAL	O-C-N	-5.72	116.31	121.91
8	J	4	PRO	CB-CA-C	-5.72	103.49	110.98
1	A	66	LYS	CA-CB-CG	5.72	125.53	114.10
2	B	594	ALA	O-C-N	5.72	129.99	122.33
1	A	284	ALA	CA-C-O	-5.71	112.33	120.16
1	A	1019	CYS	O-C-N	5.71	128.03	122.09
2	B	610	ASN	CA-C-N	5.71	125.39	119.56
2	B	610	ASN	C-N-CA	5.71	125.39	119.56
4	E	156	LEU	N-CA-C	5.71	118.85	109.76
4	E	162	ARG	CA-C-N	5.71	128.41	120.29
4	E	162	ARG	C-N-CA	5.71	128.41	120.29
4	E	31	THR	CA-CB-OG1	5.71	118.17	109.60
1	A	493	GLN	CA-C-N	-5.71	113.03	122.11
1	A	493	GLN	C-N-CA	-5.71	113.03	122.11
1	A	736	ASN	O-C-N	-5.71	114.83	122.43
2	B	34	ILE	O-C-N	-5.71	115.96	121.90
3	C	66	ARG	CD-NE-CZ	-5.71	116.40	124.40
3	C	180	TYR	O-C-N	-5.71	116.88	123.33
2	B	1175	LEU	CD1-CG-CD2	5.71	123.36	110.80
7	I	1	MET	CG-SD-CE	5.71	113.46	100.90
1	A	636	GLU	N-CA-C	-5.71	105.04	112.23
3	C	181	ASP	CA-C-N	5.71	126.97	119.84
3	C	181	ASP	C-N-CA	5.71	126.97	119.84
4	E	41	ASP	N-CA-CB	5.71	118.24	109.91
1	A	129	LYS	O-C-N	5.71	128.98	122.25
1	A	1372	VAL	N-CA-CB	-5.71	101.03	110.56
1	A	537	ARG	N-CA-C	5.70	118.23	111.33
1	A	962	ARG	O-C-N	-5.70	113.90	122.28
1	A	1120	LEU	O-C-N	-5.70	116.55	122.94
3	C	5	GLY	O-C-N	-5.70	116.07	121.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	65	LEU	O-C-N	5.70	130.17	122.59
1	A	220	THR	N-CA-C	5.70	117.17	111.07
1	A	420	ARG	NE-CZ-NH1	5.70	127.20	121.50
1	A	633	VAL	N-CA-C	-5.70	103.92	111.05
1	A	790	ASP	N-CA-CB	-5.70	103.35	111.84
2	B	255	GLN	N-CA-C	5.70	118.69	109.40
3	C	237	SER	CA-CB-OG	-5.70	99.70	111.10
6	H	77	ARG	CA-CB-CG	5.70	125.50	114.10
1	A	826	ASP	N-CA-CB	5.70	119.11	110.28
2	B	116	GLU	CA-C-O	5.70	126.56	120.24
1	A	134	ARG	NE-CZ-NH2	5.70	124.33	119.20
1	A	988	LEU	N-CA-C	5.69	118.42	111.82
1	A	402	ALA	CA-C-O	-5.69	114.84	121.10
1	A	1165	GLU	O-C-N	-5.69	114.93	122.33
2	B	23	ALA	N-CA-C	5.69	117.75	109.84
2	B	38	PHE	O-C-N	-5.69	114.66	122.46
2	B	612	GLU	CA-CB-CG	-5.69	102.72	114.10
2	B	952	VAL	N-CA-C	-5.69	99.98	108.46
2	B	981	ALA	CB-CA-C	-5.69	99.74	110.16
10	L	41	SER	CA-C-N	5.69	130.85	123.00
10	L	41	SER	C-N-CA	5.69	130.85	123.00
2	B	648	HIS	CA-C-N	5.69	130.21	122.19
2	B	648	HIS	C-N-CA	5.69	130.21	122.19
2	B	106	ASP	N-CA-C	5.69	122.92	110.80
8	J	6	ARG	O-C-N	5.69	130.73	123.11
1	A	709	THR	CA-CB-CG2	5.69	120.17	110.50
1	A	1413	GLY	CA-C-O	-5.69	114.86	121.00
10	L	45	ALA	O-C-N	5.69	130.15	122.59
1	A	1172	LEU	N-CA-CB	5.69	120.28	109.93
1	A	824	LEU	N-CA-C	-5.68	105.23	111.82
2	B	697	GLU	N-CA-C	-5.68	105.60	112.54
2	B	1166	CYS	CA-C-O	5.68	128.22	121.17
4	E	41	ASP	N-CA-C	-5.68	104.77	110.97
6	H	42	ILE	CA-CB-CG1	-5.68	100.74	110.40
1	A	25	GLU	CG-CD-OE2	-5.68	105.33	118.40
1	A	732	LEU	N-CA-C	5.68	117.93	111.11
3	C	263	THR	CA-CB-CG2	5.68	120.16	110.50
8	J	57	ILE	CA-C-O	5.68	126.65	120.57
9	K	34	THR	CB-CA-C	-5.68	100.87	110.19
1	A	752	LYS	CG-CD-CE	-5.68	98.24	111.30
2	B	42	GLY	CA-C-N	-5.68	113.17	122.54
2	B	42	GLY	C-N-CA	-5.68	113.17	122.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	384	ARG	NE-CZ-NH2	-5.68	114.09	119.20
4	E	167	ARG	CG-CD-NE	-5.68	99.50	112.00
1	A	773	LYS	N-CA-C	5.68	118.04	109.41
1	A	985	ASP	CB-CA-C	-5.68	101.97	110.88
2	B	109	THR	N-CA-C	5.68	122.89	110.80
3	C	84	ARG	NH1-CZ-NH2	-5.68	111.92	119.30
8	J	14	VAL	O-C-N	-5.68	115.47	122.57
2	B	1183	LYS	CA-CB-CG	5.67	125.45	114.10
8	J	51	LEU	CB-CG-CD1	5.67	127.72	110.70
7	I	47	GLU	N-CA-CB	5.67	119.23	110.21
2	B	211	VAL	CA-C-N	-5.67	114.19	122.19
2	B	211	VAL	C-N-CA	-5.67	114.19	122.19
9	K	38	GLU	CB-CG-CD	5.67	122.24	112.60
9	K	45	LEU	CA-C-O	-5.67	114.48	120.55
6	H	114	VAL	CG1-CB-CG2	-5.67	98.33	110.80
1	A	347	PHE	CB-CA-C	-5.67	103.92	111.63
1	A	860	LEU	CB-CA-C	-5.67	98.84	109.72
1	A	982	THR	OG1-CB-CG2	-5.67	97.96	109.30
2	B	327	ARG	CA-C-N	5.67	128.13	120.65
2	B	327	ARG	C-N-CA	5.67	128.13	120.65
2	B	1065	GLN	CA-C-O	-5.67	115.29	121.87
3	C	93	ASP	CA-C-N	-5.67	112.45	122.26
3	C	93	ASP	C-N-CA	-5.67	112.45	122.26
3	C	144	ILE	CA-C-O	-5.67	113.92	120.83
2	B	828	ALA	CA-C-O	-5.67	114.66	120.89
8	J	36	LEU	CA-C-N	-5.67	108.26	121.52
8	J	36	LEU	C-N-CA	-5.67	108.26	121.52
1	A	598	LEU	N-CA-CB	-5.67	101.86	110.92
1	A	1329	THR	CA-C-O	5.67	127.12	120.89
3	C	160	LYS	CB-CG-CD	5.67	124.33	111.30
1	A	1411	GLU	CA-C-O	5.66	126.55	120.55
1	A	21	LEU	N-CA-CB	-5.66	101.79	110.85
1	A	193	ASP	CA-CB-CG	5.66	118.26	112.60
2	B	1197	PRO	CA-C-N	5.66	127.80	120.44
2	B	1197	PRO	C-N-CA	5.66	127.80	120.44
6	H	32	THR	CA-CB-OG1	5.66	118.09	109.60
1	A	387	ARG	CA-C-N	-5.66	112.62	120.38
1	A	387	ARG	C-N-CA	-5.66	112.62	120.38
1	A	1433	MET	N-CA-C	5.66	118.86	109.46
6	H	112	ILE	CB-CA-C	5.66	120.57	111.29
1	A	871	ASP	N-CA-CB	-5.66	100.93	110.49
2	B	65	GLU	CB-CA-C	5.66	121.28	109.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1133	MET	CA-C-O	5.66	126.47	119.79
3	C	161	LYS	N-CA-CB	-5.66	101.41	110.46
1	A	350	ARG	NH1-CZ-NH2	-5.66	111.95	119.30
1	A	579	SER	N-CA-CB	5.66	119.93	110.32
1	A	976	THR	O-C-N	-5.66	114.61	122.19
2	B	261	ARG	N-CA-CB	5.66	118.53	110.44
2	B	567	GLU	O-C-N	-5.66	115.07	122.59
2	B	1193	GLN	OE1-CD-NE2	5.66	128.25	122.60
3	C	93	ASP	N-CA-C	-5.66	106.34	113.18
2	B	362	PRO	CA-C-O	-5.65	110.35	118.89
8	J	25	LEU	N-CA-C	5.65	120.31	112.90
1	A	21	LEU	N-CA-C	5.65	118.94	109.95
1	A	546	VAL	CG1-CB-CG2	-5.65	98.37	110.80
1	A	1167	GLU	CB-CA-C	5.65	119.66	110.96
1	A	1299	VAL	CA-CB-CG2	-5.65	100.80	110.40
2	B	884	ARG	CB-CG-CD	5.65	124.29	111.30
4	E	39	LEU	CA-C-O	5.65	126.51	120.24
7	I	111	THR	OG1-CB-CG2	-5.65	98.00	109.30
2	B	1207	LEU	CA-C-O	5.65	126.48	120.10
4	E	193	GLY	CA-C-O	-5.65	112.94	119.10
8	J	49	MET	N-CA-CB	-5.65	101.80	110.16
1	A	646	PHE	CA-CB-CG	5.65	119.45	113.80
1	A	1036	ARG	N-CA-C	5.65	119.47	112.24
1	A	1066	VAL	CG1-CB-CG2	-5.65	98.38	110.80
1	A	1327	ILE	CA-CB-CG2	5.65	120.10	110.50
2	B	390	LEU	O-C-N	5.65	130.43	122.41
2	B	853	SER	CA-C-O	-5.65	115.23	121.33
1	A	246	VAL	N-CA-CB	5.64	119.05	110.58
1	A	962	ARG	CA-C-O	5.64	126.89	120.00
2	B	129	PHE	N-CA-C	5.64	117.90	108.02
2	B	227	LYS	CA-C-O	-5.64	115.29	121.89
4	E	210	SER	N-CA-CB	-5.64	102.30	111.22
1	A	589	GLN	OE1-CD-NE2	5.64	128.24	122.60
2	B	241	ARG	N-CA-C	5.64	118.52	107.57
2	B	1020	ARG	CA-CB-CG	5.64	125.39	114.10
4	E	137	GLU	CG-CD-OE2	-5.64	105.42	118.40
9	K	36	GLU	N-CA-C	5.64	119.25	110.17
1	A	1030	ARG	CB-CA-C	-5.64	101.48	110.84
3	C	154	LYS	N-CA-C	5.64	118.59	109.40
5	F	99	LEU	N-CA-C	-5.64	105.13	111.28
1	A	416	ARG	NE-CZ-NH2	-5.64	114.13	119.20
2	B	233	PRO	CB-CA-C	-5.64	102.26	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	852	ARG	NE-CZ-NH2	5.64	124.27	119.20
1	A	224	PHE	N-CA-C	5.63	117.60	110.33
1	A	433	GLU	O-C-N	5.63	130.12	122.57
1	A	479	ASN	CB-CA-C	-5.63	103.89	111.89
1	A	1449	SER	CB-CA-C	5.63	120.43	109.33
2	B	167	ILE	CB-CA-C	-5.63	102.05	111.29
2	B	362	PRO	N-CA-CB	-5.63	98.17	103.52
2	B	846	ILE	CA-C-N	5.63	127.83	120.28
2	B	846	ILE	C-N-CA	5.63	127.83	120.28
6	H	63	LEU	CA-C-O	5.63	130.38	120.80
9	K	28	PRO	CA-C-O	5.63	129.29	122.19
2	B	31	TRP	CA-C-N	-5.63	111.11	120.68
2	B	31	TRP	C-N-CA	-5.63	111.11	120.68
2	B	359	GLU	CB-CA-C	-5.63	100.06	109.75
2	B	562	GLY	CA-C-N	-5.63	112.87	120.87
2	B	562	GLY	C-N-CA	-5.63	112.87	120.87
3	C	199	LYS	N-CA-CB	5.63	118.40	110.12
5	F	95	GLY	CA-C-O	-5.63	114.07	120.09
1	A	160	GLN	CA-C-N	-5.63	112.74	123.32
1	A	160	GLN	C-N-CA	-5.63	112.74	123.32
2	B	413	LEU	CB-CA-C	-5.63	99.22	110.42
2	B	282	ILE	CA-CB-CG1	5.63	119.97	110.40
4	E	66	GLU	CB-CA-C	5.63	120.42	110.85
4	E	182	ASP	CA-CB-CG	5.63	118.23	112.60
1	A	622	VAL	CA-CB-CG1	5.62	119.96	110.40
2	B	1171	VAL	N-CA-C	5.62	116.27	108.84
2	B	511	PRO	CB-CA-C	-5.62	102.95	111.44
1	A	659	HIS	CG-CD2-NE2	-5.62	101.58	107.20
1	A	731	ARG	N-CA-CB	-5.62	101.63	110.06
1	A	801	GLU	CB-CA-C	5.62	120.99	110.70
2	B	351	TYR	N-CA-C	-5.62	104.36	111.11
8	J	19	GLU	CA-C-N	-5.62	111.61	120.60
8	J	19	GLU	C-N-CA	-5.62	111.61	120.60
4	E	152	LYS	CB-CA-C	-5.62	101.07	110.29
1	A	1152	ILE	CA-C-O	-5.62	114.55	120.39
1	A	1218	GLN	O-C-N	5.62	129.78	122.42
1	A	509	LEU	N-CA-C	5.62	119.87	113.19
4	E	19	VAL	CA-CB-CG1	-5.62	100.85	110.40
9	K	79	GLU	CA-CB-CG	5.62	125.33	114.10
1	A	930	ASP	N-CA-CB	5.61	118.56	110.20
2	B	285	ILE	N-CA-C	5.61	116.25	110.36
5	F	94	LEU	N-CA-C	5.61	118.17	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	174	GLN	CG-CD-OE1	5.61	132.02	120.80
5	F	82	THR	CA-CB-CG2	5.61	120.04	110.50
1	A	798	GLY	CA-C-N	-5.61	112.90	120.87
1	A	798	GLY	C-N-CA	-5.61	112.90	120.87
2	B	689	LEU	N-CA-CB	-5.61	101.69	110.44
1	A	1168	GLU	CA-CB-CG	5.61	125.32	114.10
2	B	1159	ARG	CA-C-N	5.61	132.07	121.97
2	B	1159	ARG	C-N-CA	5.61	132.07	121.97
2	B	515	HIS	CB-CA-C	-5.61	99.28	109.38
4	E	110	PHE	N-CA-C	5.61	117.55	108.41
1	A	1427	ASN	CA-C-O	5.61	126.28	119.38
3	C	163	ILE	N-CA-CB	-5.61	101.44	111.92
9	K	3	ALA	O-C-N	-5.61	116.31	121.30
10	L	69	ALA	N-CA-CB	5.61	120.60	112.13
1	A	505	CYS	N-CA-C	5.60	120.23	113.17
2	B	138	GLU	CB-CG-CD	5.60	122.12	112.60
2	B	904	ARG	CB-CA-C	-5.60	101.16	109.90
10	L	66	GLN	CA-C-O	-5.60	114.78	121.56
1	A	1023	ARG	NH1-CZ-NH2	-5.60	112.02	119.30
2	B	135	ARG	CA-C-O	-5.60	113.39	120.28
1	A	948	VAL	N-CA-C	5.60	120.98	109.34
1	A	1198	ASP	N-CA-C	5.60	117.86	108.96
2	B	298	LEU	N-CA-C	-5.60	105.33	111.82
4	E	132	ILE	CA-CB-CG2	-5.60	100.98	110.50
1	A	84	ILE	CA-C-O	-5.60	113.78	120.78
1	A	127	ALA	O-C-N	5.60	128.77	122.22
2	B	592	ASN	O-C-N	-5.60	114.89	121.32
1	A	794	PRO	N-CD-CG	-5.59	94.81	103.20
1	A	874	ASP	O-C-N	-5.59	116.50	123.04
2	B	888	GLY	CA-C-O	-5.59	110.83	120.57
3	C	195	GLN	CB-CG-CD	-5.59	103.09	112.60
4	E	11	ARG	CB-CG-CD	5.59	124.17	111.30
9	K	86	ALA	CA-C-O	5.59	126.25	119.31
1	A	812	GLU	N-CA-C	-5.59	105.33	111.82
1	A	1320	PRO	O-C-N	5.59	129.79	123.03
2	B	497	ARG	CG-CD-NE	-5.59	99.70	112.00
4	E	198	ILE	CG1-CB-CG2	-5.59	93.93	110.70
1	A	420	ARG	CB-CA-C	-5.59	102.02	111.02
1	A	672	ASP	CB-CA-C	-5.59	99.30	110.42
4	E	97	VAL	O-C-N	-5.59	116.22	121.87
4	E	164	LEU	CA-C-O	5.59	126.47	120.55
4	E	34	GLU	CG-CD-OE1	-5.59	105.55	118.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1325	THR	CA-CB-CG2	5.58	119.99	110.50
2	B	964	VAL	N-CA-CB	-5.58	100.35	111.91
1	A	447	GLN	CB-CA-C	5.58	117.49	109.11
2	B	606	LYS	CG-CD-CE	5.58	124.14	111.30
4	E	46	TYR	CA-C-O	5.58	124.83	119.08
7	I	72	ASP	CA-C-O	-5.58	113.14	119.78
1	A	1212	VAL	CG1-CB-CG2	-5.58	98.52	110.80
3	C	35	ARG	CG-CD-NE	-5.58	99.72	112.00
8	J	18	TRP	CA-C-N	5.58	127.70	120.44
8	J	18	TRP	C-N-CA	5.58	127.70	120.44
2	B	31	TRP	CA-C-O	5.58	126.24	119.49
6	H	5	LEU	CB-CG-CD1	-5.58	93.96	110.70
1	A	1121	GLU	CA-C-N	5.58	126.81	119.84
1	A	1121	GLU	C-N-CA	5.58	126.81	119.84
1	A	1282	VAL	N-CA-C	5.58	116.15	108.12
1	A	1352	VAL	CA-CB-CG2	5.58	119.88	110.40
2	B	95	ILE	CG1-CB-CG2	-5.58	93.97	110.70
2	B	198	ASP	CA-C-N	-5.58	113.47	122.23
2	B	198	ASP	C-N-CA	-5.58	113.47	122.23
2	B	556	THR	N-CA-C	-5.58	105.20	112.23
1	A	1378	GLN	CA-C-O	5.58	126.18	119.43
4	E	29	PHE	N-CA-C	-5.58	100.09	108.96
2	B	58	THR	CA-C-O	5.58	126.24	119.49
7	I	61	ASP	N-CA-C	5.58	122.67	110.80
9	K	5	ASP	CB-CA-C	-5.58	99.64	109.62
1	A	70	CYS	N-CA-CB	5.57	118.69	110.33
1	A	496	GLU	O-C-N	5.57	128.05	122.03
1	A	622	VAL	CB-CA-C	5.57	118.11	111.20
3	C	35	ARG	CD-NE-CZ	5.57	132.20	124.40
6	H	2	SER	CB-CA-C	5.57	120.69	110.10
1	A	99	ILE	CA-C-O	5.57	127.75	120.78
1	A	14	VAL	N-CA-C	-5.57	100.37	108.17
2	B	41	LYS	CB-CG-CD	5.57	124.11	111.30
4	E	184	VAL	N-CA-C	-5.57	105.68	111.58
9	K	51	LEU	CB-CG-CD1	-5.57	93.99	110.70
1	A	588	LEU	N-CA-CB	-5.57	101.05	111.13
1	A	634	THR	N-CA-C	-5.57	105.11	111.07
1	A	775	ILE	N-CA-C	-5.57	101.85	109.37
1	A	1441	PHE	N-CA-CB	-5.57	102.76	111.56
3	C	101	LEU	CA-C-O	-5.57	114.34	120.24
4	E	107	THR	OG1-CB-CG2	-5.57	98.17	109.30
1	A	659	HIS	CB-CG-CD2	5.57	138.44	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	690	VAL	O-C-N	-5.57	116.46	121.91
1	A	1003	LYS	CB-CG-CD	5.57	124.10	111.30
7	I	98	VAL	N-CA-C	5.57	118.57	109.78
1	A	1102	LYS	CG-CD-CE	5.56	124.10	111.30
10	L	40	LEU	CB-CA-C	5.56	122.80	111.78
1	A	396	PRO	CB-CA-C	-5.56	103.56	111.68
2	B	135	ARG	CB-CA-C	5.56	119.39	109.65
2	B	384	ARG	CA-C-O	5.56	126.85	120.90
2	B	698	GLU	O-C-N	-5.56	115.16	122.39
2	B	736	THR	CA-CB-OG1	-5.56	101.26	109.60
2	B	787	VAL	CA-C-O	-5.56	113.97	118.98
2	B	827	ILE	CA-C-O	5.56	127.17	120.66
1	A	1138	ILE	N-CA-CB	-5.56	102.53	111.82
6	H	132	LEU	CB-CG-CD2	5.56	127.38	110.70
1	A	644	LYS	CB-CG-CD	5.56	124.09	111.30
2	B	182	SER	N-CA-C	-5.56	105.30	111.36
2	B	573	GLN	N-CA-C	-5.56	106.49	113.72
6	H	49	VAL	CA-C-O	-5.56	113.83	120.78
5	F	97	ARG	CB-CG-CD	5.56	124.08	111.30
1	A	630	ILE	CA-C-N	-5.56	112.40	120.29
1	A	630	ILE	C-N-CA	-5.56	112.40	120.29
2	B	240	ILE	CB-CA-C	5.55	120.32	110.71
2	B	679	TYR	CA-C-O	-5.55	114.82	120.71
2	B	993	THR	N-CA-C	5.55	119.11	110.17
2	B	1148	LYS	CA-CB-CG	5.55	125.21	114.10
4	E	48	ASP	CB-CG-OD2	5.55	131.18	118.40
1	A	1410	PHE	O-C-N	-5.55	116.31	122.09
1	A	921	GLY	N-CA-C	5.55	122.74	115.47
4	E	46	TYR	OH-CZ-CE2	5.55	136.55	119.90
1	A	229	SER	O-C-N	-5.55	116.04	123.14
1	A	1101	LEU	N-CA-C	-5.55	106.01	112.89
1	A	1198	ASP	CB-CG-OD1	5.55	131.16	118.40
2	B	650	GLU	CG-CD-OE1	-5.55	105.64	118.40
2	B	957	ASN	N-CA-C	5.55	122.62	110.80
3	C	190	ASP	N-CA-CB	-5.55	101.99	110.65
4	E	132	ILE	CB-CA-C	-5.55	101.95	110.50
1	A	146	MET	CA-CB-CG	-5.55	103.00	114.10
1	A	470	LEU	CB-CA-C	-5.55	98.52	110.45
1	A	656	TRP	CD1-NE1-CE2	-5.55	98.92	108.90
2	B	331	LEU	CD1-CG-CD2	-5.55	98.60	110.80
2	B	136	THR	OG1-CB-CG2	-5.54	98.21	109.30
2	B	488	TYR	O-C-N	-5.54	116.24	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	648	HIS	CB-CA-C	-5.54	101.35	112.99
9	K	105	PHE	CZ-CE2-CD2	-5.54	110.02	120.00
1	A	898	ARG	CB-CA-C	-5.54	102.18	110.16
2	B	327	ARG	N-CA-C	5.54	118.25	111.82
2	B	498	THR	O-C-N	-5.54	116.46	123.17
1	A	709	THR	CA-C-N	-5.54	113.06	120.54
1	A	709	THR	C-N-CA	-5.54	113.06	120.54
2	B	453	ILE	CA-CB-CG1	5.54	119.82	110.40
4	E	192	ARG	CG-CD-NE	-5.54	99.82	112.00
1	A	1367	HIS	CA-C-O	5.54	125.75	119.27
1	A	857	ARG	NE-CZ-NH1	-5.54	115.97	121.50
1	A	1411	GLU	CB-CA-C	5.54	119.98	110.79
2	B	132	VAL	N-CA-C	5.54	117.87	109.12
2	B	644	GLU	N-CA-CB	-5.54	101.13	110.49
3	C	44	LEU	CA-CB-CG	-5.54	96.92	116.30
4	E	174	GLN	N-CA-C	-5.54	106.11	112.92
1	A	1038	THR	CA-CB-OG1	5.53	117.90	109.60
1	A	1078	GLN	CA-C-O	5.53	127.22	119.80
1	A	1239	ARG	CG-CD-NE	-5.53	99.83	112.00
2	B	393	LYS	CD-CE-NZ	-5.53	94.19	111.90
4	E	205	SER	N-CA-C	-5.53	105.15	113.89
2	B	523	CYS	CA-C-N	5.53	126.39	120.47
2	B	523	CYS	C-N-CA	5.53	126.39	120.47
5	F	143	PHE	CA-CB-CG	5.53	119.33	113.80
6	H	45	GLU	CG-CD-OE2	-5.53	105.68	118.40
9	K	51	LEU	CA-C-O	5.53	126.12	119.43
2	B	452	THR	CA-CB-CG2	5.53	119.90	110.50
3	C	76	ASP	N-CA-C	5.53	119.77	111.81
1	A	1069	ALA	O-C-N	5.53	128.45	122.15
1	A	1276	VAL	CG1-CB-CG2	-5.53	98.64	110.80
1	A	724	GLU	CB-CG-CD	5.53	121.99	112.60
1	A	1432	GLN	N-CA-C	5.53	117.37	109.14
2	B	172	ILE	N-CA-CB	-5.53	100.99	111.21
2	B	435	THR	CA-C-N	5.53	131.92	121.97
2	B	435	THR	C-N-CA	5.53	131.92	121.97
3	C	34	ARG	CD-NE-CZ	5.53	132.14	124.40
1	A	830	LYS	CA-C-N	-5.52	111.92	120.31
1	A	830	LYS	C-N-CA	-5.52	111.92	120.31
1	A	1192	LEU	CB-CG-CD1	-5.52	94.13	110.70
2	B	651	LEU	CA-C-N	5.52	128.00	120.54
2	B	651	LEU	C-N-CA	5.52	128.00	120.54
2	B	798	TYR	N-CA-C	5.52	118.63	109.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	870	ILE	CA-C-N	5.52	133.17	122.07
2	B	870	ILE	C-N-CA	5.52	133.17	122.07
7	I	28	GLU	N-CA-CB	-5.52	102.47	110.70
7	I	67	THR	N-CA-C	5.52	119.88	113.20
1	A	1102	LYS	CD-CE-NZ	-5.52	94.23	111.90
6	H	41	ASP	CB-CG-OD1	5.52	131.10	118.40
1	A	39	GLU	O-C-N	-5.52	116.49	123.17
1	A	112	LYS	CD-CE-NZ	-5.52	94.24	111.90
2	B	381	MET	CG-SD-CE	-5.52	88.76	100.90
2	B	1108	ARG	N-CA-C	5.52	122.56	110.80
7	I	94	ASP	N-CA-C	5.52	120.69	113.30
1	A	753	GLY	CA-C-O	-5.52	117.44	122.24
2	B	285	ILE	CA-C-O	5.52	127.01	121.27
2	B	496	ARG	CB-CG-CD	5.52	123.99	111.30
3	C	249	ASP	CB-CA-C	5.52	121.26	110.67
7	I	2	THR	CA-CB-CG2	-5.52	101.12	110.50
1	A	159	THR	O-C-N	-5.51	115.26	122.59
2	B	803	LEU	N-CA-C	5.51	118.00	111.33
1	A	663	SER	CA-CB-OG	5.51	122.13	111.10
2	B	663	ALA	N-CA-C	-5.51	105.43	111.82
2	B	1209	ALA	O-C-N	5.51	129.92	122.59
4	E	163	GLU	N-CA-CB	5.51	118.32	110.16
6	H	96	VAL	CG1-CB-CG2	5.51	122.92	110.80
8	J	24	LEU	O-C-N	-5.51	115.04	122.43
9	K	106	GLU	N-CA-C	-5.51	105.18	112.34
1	A	1301	GLU	OE1-CD-OE2	5.51	136.12	122.90
1	A	1438	THR	CA-CB-CG2	5.51	119.87	110.50
2	B	1015	HIS	CA-CB-CG	-5.51	108.29	113.80
3	C	202	PRO	O-C-N	5.51	129.34	123.01
6	H	87	ARG	CA-C-N	5.51	132.06	121.54
6	H	87	ARG	C-N-CA	5.51	132.06	121.54
1	A	751	SER	N-CA-CB	-5.51	102.07	110.33
2	B	799	PRO	CB-CA-C	-5.51	104.56	111.56
9	K	49	GLU	OE1-CD-OE2	5.51	136.12	122.90
1	A	965	GLN	CA-CB-CG	-5.51	103.09	114.10
2	B	768	THR	CA-CB-CG2	-5.51	101.14	110.50
2	B	904	ARG	CG-CD-NE	-5.51	99.89	112.00
3	C	127	ARG	NE-CZ-NH2	5.51	124.16	119.20
5	F	135	ARG	NE-CZ-NH1	-5.51	115.99	121.50
6	H	92	ASP	CB-CA-C	-5.51	101.87	111.23
2	B	97	VAL	CA-C-N	5.50	130.52	121.39
2	B	97	VAL	C-N-CA	5.50	130.52	121.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	J	39	LEU	N-CA-C	-5.50	106.60	113.15
2	B	1076	HIS	CA-CB-CG	5.50	119.30	113.80
1	A	1275	GLY	N-CA-C	-5.50	105.25	111.85
2	B	249	ARG	CD-NE-CZ	5.50	132.10	124.40
1	A	182	VAL	CA-C-O	5.50	127.10	120.67
1	A	1337	GLU	CA-C-O	-5.50	113.30	119.79
2	B	204	ILE	CA-C-N	5.50	130.49	123.13
2	B	204	ILE	C-N-CA	5.50	130.49	123.13
3	C	57	VAL	CG1-CB-CG2	5.50	122.89	110.80
3	C	109	SER	CA-C-O	5.50	128.37	120.51
2	B	97	VAL	CG1-CB-CG2	-5.50	98.71	110.80
6	H	126	GLU	CG-CD-OE1	5.50	131.04	118.40
2	B	681	TRP	CE3-CZ3-CH2	-5.49	113.96	121.10
2	B	1007	VAL	O-C-N	-5.49	116.68	121.57
10	L	50	ASP	CA-C-N	5.49	130.74	122.99
10	L	50	ASP	C-N-CA	5.49	130.74	122.99
1	A	1032	LEU	CB-CG-CD1	-5.49	94.22	110.70
1	A	1368	MET	CG-SD-CE	5.49	112.98	100.90
2	B	138	GLU	CG-CD-OE1	5.49	131.03	118.40
2	B	1110	PRO	CA-C-O	5.49	135.48	119.00
2	B	1218	THR	N-CA-CB	-5.49	101.87	110.44
5	F	93	ILE	CG1-CB-CG2	-5.49	94.22	110.70
5	F	138	LEU	CA-C-N	5.49	125.32	119.28
5	F	138	LEU	C-N-CA	5.49	125.32	119.28
1	A	128	ILE	CA-CB-CG1	5.49	119.73	110.40
2	B	1007	VAL	N-CA-C	5.49	115.04	108.45
4	E	81	GLU	N-CA-CB	-5.49	101.66	110.77
8	J	49	MET	CA-CB-CG	-5.49	103.12	114.10
1	A	749	ALA	CA-C-O	5.49	126.13	119.38
2	B	246	LYS	O-C-N	-5.49	116.79	123.16
2	B	969	ARG	CB-CA-C	-5.49	99.50	109.38
8	J	13	VAL	N-CA-C	-5.49	102.50	109.58
1	A	546	VAL	CA-C-N	-5.49	111.54	121.14
1	A	546	VAL	C-N-CA	-5.49	111.54	121.14
2	B	37	PHE	CD1-CE1-CZ	5.49	129.88	120.00
1	A	18	GLN	N-CA-CB	5.49	119.18	110.84
2	B	184	ALA	N-CA-C	5.49	117.61	110.43
2	B	194	GLU	CB-CG-CD	-5.49	103.27	112.60
1	A	69	THR	N-CA-C	5.48	122.48	110.80
2	B	376	PHE	CA-C-O	-5.48	114.74	120.55
2	B	1210	MET	N-CA-CB	5.48	118.44	110.65
9	K	34	THR	N-CA-C	5.48	117.46	108.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	480	ALA	CA-C-O	-5.48	114.78	120.70
3	C	132	PRO	CA-C-N	5.48	129.23	121.66
3	C	132	PRO	C-N-CA	5.48	129.23	121.66
9	K	33	ILE	O-C-N	-5.48	116.47	122.83
1	A	1239	ARG	CB-CG-CD	5.48	123.91	111.30
2	B	287	ARG	CA-CB-CG	-5.48	103.14	114.10
4	E	19	VAL	N-CA-C	5.48	116.21	110.62
4	E	116	ILE	CB-CA-C	5.48	119.02	111.19
8	J	55	ASP	N-CA-CB	-5.48	102.33	110.60
1	A	1235	LYS	CB-CA-C	5.48	119.24	109.38
2	B	535	LEU	CA-C-N	5.48	129.22	122.37
2	B	535	LEU	C-N-CA	5.48	129.22	122.37
2	B	682	SER	CA-C-N	-5.48	112.52	120.29
2	B	682	SER	C-N-CA	-5.48	112.52	120.29
1	A	357	PRO	N-CD-CG	5.47	111.41	103.20
1	A	575	LYS	CG-CD-CE	-5.47	98.71	111.30
1	A	656	TRP	CG-CD1-NE1	5.47	117.32	110.20
1	A	857	ARG	CB-CA-C	-5.47	98.68	110.45
1	A	1013	ASP	CB-CA-C	-5.47	102.25	110.90
2	B	64	CYS	N-CA-C	-5.47	106.60	113.72
2	B	171	PRO	CA-N-CD	5.47	119.66	112.00
2	B	814	PHE	CA-C-N	-5.47	111.84	120.60
2	B	814	PHE	C-N-CA	-5.47	111.84	120.60
3	C	82	TYR	N-CA-C	5.47	118.29	110.24
1	A	326	ARG	NH1-CZ-NH2	-5.47	112.19	119.30
5	F	80	ALA	N-CA-CB	-5.47	102.61	110.65
5	F	154	ASP	CB-CG-OD1	5.47	130.99	118.40
4	E	215	MET	CB-CA-C	-5.47	99.70	110.10
2	B	106	ASP	O-C-N	-5.47	115.31	122.59
6	H	123	MET	N-CA-C	5.47	118.00	109.52
1	A	207	ILE	CA-CB-CG1	5.47	119.69	110.40
1	A	978	PRO	CB-CG-CD	-5.47	88.61	106.10
2	B	814	PHE	N-CA-C	-5.47	105.34	112.23
7	I	98	VAL	CA-CB-CG1	5.47	119.69	110.40
1	A	1226	VAL	CA-C-N	-5.46	115.68	123.17
1	A	1226	VAL	C-N-CA	-5.46	115.68	123.17
2	B	234	ILE	CA-CB-CG2	5.46	119.79	110.50
2	B	708	GLU	CB-CG-CD	5.46	121.89	112.60
3	C	261	ALA	N-CA-CB	5.46	118.42	110.88
4	E	93	MET	CA-C-O	-5.46	114.63	120.42
1	A	611	GLN	CA-CB-CG	-5.46	103.17	114.10
1	A	833	GLU	N-CA-C	-5.46	104.55	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	131	ASP	N-CA-CB	5.46	119.07	110.71
2	B	320	ASP	N-CA-C	-5.46	104.97	111.69
1	A	927	VAL	CB-CA-C	-5.46	103.41	112.26
3	C	123	ASN	O-C-N	-5.46	116.38	122.93
1	A	837	ILE	N-CA-CB	-5.46	104.16	110.55
1	A	1365	TYR	CB-CA-C	5.46	119.80	110.74
3	C	69	LEU	N-CA-C	5.46	119.79	113.18
1	A	1441	PHE	CA-C-O	-5.46	115.61	121.45
2	B	424	LEU	N-CA-C	5.46	122.43	110.80
2	B	527	THR	CA-C-O	-5.46	113.71	119.50
1	A	662	PHE	CZ-CE2-CD2	5.46	129.82	120.00
1	A	848	ILE	CA-C-O	5.46	127.26	121.04
2	B	835	GLN	CA-C-O	-5.46	114.81	121.36
2	B	1023	VAL	CA-CB-CG2	-5.46	101.12	110.40
9	K	71	PHE	N-CA-CB	5.46	121.18	111.69
1	A	1229	SER	CA-C-O	-5.46	114.83	121.05
1	A	229	SER	CA-CB-OG	-5.45	100.19	111.10
3	C	57	VAL	CA-C-O	5.45	126.08	119.54
3	C	68	GLY	CA-C-O	5.45	125.89	119.45
7	I	44	TYR	CA-CB-CG	5.45	123.72	113.90
2	B	49	ASP	CB-CG-OD2	5.45	130.94	118.40
1	A	226	GLU	CG-CD-OE2	5.45	130.94	118.40
1	A	406	ILE	CB-CA-C	-5.45	102.11	110.50
2	B	366	GLN	CB-CG-CD	-5.45	103.34	112.60
3	C	78	GLU	CB-CG-CD	5.45	121.87	112.60
3	C	80	LEU	N-CA-C	-5.45	100.29	109.07
3	C	241	ASP	N-CA-C	-5.45	99.19	110.80
8	J	28	ASP	O-C-N	5.45	128.78	122.19
1	A	521	MET	O-C-N	-5.45	116.62	123.27
1	A	1377	THR	CB-CA-C	-5.45	98.60	109.99
2	B	228	LYS	CA-CB-CG	-5.45	103.20	114.10
6	H	60	ALA	CB-CA-C	-5.45	100.49	111.17
3	C	52	GLU	CB-CA-C	5.45	120.67	110.70
3	C	223	ALA	CA-C-O	-5.45	115.55	121.87
4	E	10	SER	CB-CA-C	-5.45	102.26	110.92
1	A	1122	PRO	CB-CG-CD	-5.44	88.68	106.10
1	A	1298	TYR	CG-CD2-CE2	5.44	129.37	121.20
9	K	28	PRO	N-CA-CB	-5.44	96.95	102.72
1	A	777	PHE	CA-C-N	-5.44	113.31	120.22
1	A	777	PHE	C-N-CA	-5.44	113.31	120.22
6	H	120	GLY	CA-C-O	5.44	125.03	119.10
7	I	82	GLU	CB-CG-CD	5.44	121.85	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	J	50	ILE	N-CA-C	-5.44	106.39	111.45
1	A	780	VAL	N-CA-CB	5.44	117.28	111.46
1	A	874	ASP	CA-C-N	-5.44	111.06	121.94
1	A	874	ASP	C-N-CA	-5.44	111.06	121.94
1	A	1064	VAL	O-C-N	5.44	129.18	122.05
3	C	161	LYS	N-CA-C	-5.44	102.47	110.52
2	B	436	VAL	CA-CB-CG1	5.44	119.64	110.40
2	B	706	GLN	CB-CG-CD	5.44	121.84	112.60
3	C	230	MET	CG-SD-CE	5.44	112.86	100.90
4	E	164	LEU	CD1-CG-CD2	-5.44	98.84	110.80
1	A	391	LEU	N-CA-CB	5.44	117.89	110.01
2	B	583	ASN	CA-C-N	-5.44	111.38	121.93
2	B	583	ASN	C-N-CA	-5.44	111.38	121.93
1	A	176	LYS	O-C-N	-5.43	117.03	123.22
1	A	617	VAL	N-CA-C	-5.43	100.06	107.99
1	A	1166	ASP	CA-C-O	5.43	126.25	119.78
1	A	1204	ASP	CB-CG-OD2	5.43	130.90	118.40
2	B	858	SER	CA-CB-OG	-5.43	100.23	111.10
7	I	93	LYS	CD-CE-NZ	5.43	129.29	111.90
2	B	935	ARG	CD-NE-CZ	5.43	132.01	124.40
7	I	3	THR	CA-C-O	-5.43	112.06	120.81
3	C	118	LEU	CB-CG-CD2	5.43	126.99	110.70
1	A	164	ARG	NE-CZ-NH2	-5.43	114.31	119.20
1	A	769	SER	CA-CB-OG	-5.43	100.24	111.10
1	A	1239	ARG	N-CA-C	-5.43	99.08	108.69
4	E	111	VAL	CG1-CB-CG2	5.43	122.75	110.80
1	A	1127	ASP	CB-CA-C	-5.43	102.07	111.30
7	I	18	GLU	CG-CD-OE1	-5.43	105.92	118.40
1	A	820	GLY	CA-C-N	-5.43	112.58	120.29
1	A	820	GLY	C-N-CA	-5.43	112.58	120.29
2	B	180	TYR	N-CA-C	5.43	119.39	112.34
2	B	754	SER	CA-C-O	5.43	127.59	118.91
2	B	846	ILE	CA-C-O	-5.43	115.31	120.95
3	C	219	PHE	CA-C-O	-5.43	115.58	121.44
1	A	58	LEU	N-CA-C	-5.42	99.25	110.80
1	A	383	TYR	O-C-N	-5.42	114.97	122.46
1	A	1211	GLN	CB-CA-C	-5.42	102.33	110.90
1	A	1280	GLU	CG-CD-OE2	5.42	130.88	118.40
2	B	190	TYR	CA-C-N	-5.42	112.95	120.38
2	B	190	TYR	C-N-CA	-5.42	112.95	120.38
2	B	658	ILE	CA-C-N	-5.42	111.46	120.68
2	B	658	ILE	C-N-CA	-5.42	111.46	120.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	832	GLY	N-CA-C	5.42	122.84	115.30
2	B	961	LEU	CB-CA-C	5.42	118.92	109.65
2	B	978	ASP	O-C-N	5.42	129.03	122.85
1	A	559	VAL	CB-CA-C	-5.42	103.55	110.98
2	B	393	LYS	CA-CB-CG	5.42	124.94	114.10
2	B	1096	ARG	NH1-CZ-NH2	5.42	126.35	119.30
1	A	205	GLU	CB-CA-C	5.42	119.90	110.68
1	A	680	THR	CA-CB-OG1	5.42	117.73	109.60
1	A	684	ALA	CB-CA-C	5.42	119.90	110.68
1	A	923	LEU	CB-CA-C	-5.42	99.32	110.38
1	A	931	GLU	CA-CB-CG	5.42	124.94	114.10
2	B	223	VAL	CA-CB-CG1	-5.42	101.18	110.40
2	B	360	PHE	CB-CA-C	5.42	118.69	109.75
4	E	106	GLN	CB-CA-C	5.42	121.64	110.31
1	A	1222	ASN	CA-C-N	5.42	131.89	121.54
1	A	1222	ASN	C-N-CA	5.42	131.89	121.54
2	B	595	ARG	NH1-CZ-NH2	-5.42	112.26	119.30
2	B	657	HIS	ND1-CE1-NE2	-5.42	102.98	108.40
2	B	708	GLU	N-CA-CB	-5.42	99.40	110.67
2	B	907	GLY	N-CA-C	-5.42	102.36	111.73
1	A	132	LYS	N-CA-C	-5.42	106.35	113.12
1	A	486	GLU	CA-CB-CG	5.42	124.93	114.10
3	C	228	PHE	CB-CA-C	-5.42	99.90	109.70
9	K	28	PRO	N-CA-C	5.42	121.98	112.01
1	A	720	ARG	CD-NE-CZ	5.42	131.98	124.40
2	B	1099	VAL	N-CA-C	5.42	120.60	109.34
2	B	1189	ILE	CA-C-N	5.42	131.88	121.54
2	B	1189	ILE	C-N-CA	5.42	131.88	121.54
1	A	230	ARG	CG-CD-NE	-5.41	100.09	112.00
1	A	84	ILE	CB-CA-C	5.41	120.17	111.29
2	B	480	SER	CB-CA-C	-5.41	98.39	109.38
1	A	516	SER	CA-CB-OG	-5.41	100.28	111.10
2	B	68	THR	OG1-CB-CG2	-5.41	98.48	109.30
2	B	377	PHE	N-CA-C	-5.41	106.18	112.89
2	B	559	SER	CA-CB-OG	-5.41	100.28	111.10
3	C	120	ILE	CA-CB-CG2	5.41	119.70	110.50
3	C	146	LYS	CB-CG-CD	-5.41	98.85	111.30
3	C	265	MET	CG-SD-CE	-5.41	89.00	100.90
1	A	669	THR	CB-CA-C	-5.41	101.03	110.17
1	A	873	MET	CA-CB-CG	-5.41	103.28	114.10
6	H	42	ILE	CA-CB-CG2	5.41	119.69	110.50
2	B	381	MET	CB-CA-C	-5.41	100.29	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	794	ASN	N-CA-C	-5.41	99.28	108.26
2	B	849	GLY	N-CA-C	5.41	122.21	114.64
4	E	119	SER	CA-CB-OG	-5.41	100.29	111.10
1	A	636	GLU	O-C-N	-5.41	115.09	122.33
1	A	913	LEU	CB-CG-CD1	-5.41	94.49	110.70
2	B	175	ARG	NE-CZ-NH2	5.41	124.07	119.20
2	B	225	VAL	N-CA-CB	-5.41	99.91	111.37
2	B	519	TRP	CG-CD1-NE1	-5.41	103.17	110.20
3	C	72	LEU	CA-CB-CG	-5.41	97.38	116.30
3	C	88	CYS	N-CA-CB	-5.41	102.97	110.38
9	K	89	ASN	CA-C-O	5.41	126.21	120.10
1	A	1026	LEU	CA-C-O	5.40	127.72	121.34
2	B	174	LEU	CB-CG-CD2	5.40	126.91	110.70
3	C	153	LEU	CA-C-N	-5.40	114.83	122.94
3	C	153	LEU	C-N-CA	-5.40	114.83	122.94
1	A	803	SER	N-CA-C	5.40	117.81	110.35
1	A	1237	ILE	CG1-CB-CG2	-5.40	94.49	110.70
2	B	38	PHE	CA-C-O	5.40	125.59	119.27
3	C	34	ARG	N-CA-C	5.40	120.28	111.37
1	A	420	ARG	CA-C-O	-5.40	113.58	119.95
1	A	725	ALA	CB-CA-C	-5.40	102.40	110.88
2	B	384	ARG	CB-CG-CD	5.40	123.72	111.30
4	E	67	GLU	N-CA-C	5.40	116.85	111.07
1	A	411	ASP	N-CA-C	5.40	118.06	109.96
5	F	102	SER	CA-C-O	-5.40	113.76	119.97
7	I	70	ARG	CA-C-O	-5.40	115.01	121.11
1	A	465	TYR	N-CA-C	5.40	122.30	110.80
1	A	969	GLN	CB-CG-CD	-5.40	103.42	112.60
1	A	1273	LEU	CA-C-N	5.40	131.28	121.89
1	A	1273	LEU	C-N-CA	5.40	131.28	121.89
2	B	1037	LEU	CB-CG-CD1	5.40	126.89	110.70
3	C	140	ASN	CB-CA-C	5.40	121.39	110.38
5	F	101	ILE	CA-C-O	-5.40	115.44	121.05
5	F	130	ILE	CB-CA-C	-5.40	104.67	111.04
9	K	96	ASN	CB-CG-ND2	-5.40	108.30	116.40
3	C	72	LEU	CB-CG-CD1	-5.40	94.51	110.70
1	A	506	ALA	CA-C-O	-5.39	115.26	121.19
1	A	1267	MET	CA-CB-CG	-5.39	103.31	114.10
5	F	107	VAL	O-C-N	-5.39	117.20	122.97
6	H	41	ASP	N-CA-C	5.39	118.34	109.76
6	H	60	ALA	CA-C-O	-5.39	115.66	121.38
1	A	396	PRO	O-C-N	5.39	129.63	122.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	931	GLU	N-CA-C	5.39	117.91	111.71
4	E	55	ARG	NE-CZ-NH2	5.39	124.05	119.20
7	I	15	TYR	CE1-CZ-CE2	-5.39	109.52	120.30
9	K	17	SER	CA-C-O	-5.39	114.88	121.78
1	A	426	LEU	CB-CG-CD1	5.39	126.87	110.70
1	A	1026	LEU	O-C-N	-5.39	114.67	121.95
2	B	1046	PRO	O-C-N	5.39	129.92	123.13
2	B	1107	ALA	O-C-N	5.39	128.89	122.26
2	B	310	MET	O-C-N	-5.39	116.52	122.07
1	A	715	GLU	CB-CG-CD	5.39	121.76	112.60
1	A	790	ASP	OD1-CG-OD2	-5.39	109.97	122.90
1	A	873	MET	CB-CG-SD	5.39	128.86	112.70
2	B	52	ASN	O-C-N	-5.39	116.27	122.09
1	A	555	ASP	CB-CA-C	5.38	120.30	111.74
1	A	796	SER	CB-CA-C	-5.38	101.85	110.79
4	E	199	ILE	N-CA-CB	-5.38	104.68	111.46
1	A	220	THR	CA-C-O	5.38	126.47	120.82
3	C	254	LYS	N-CA-CB	5.38	117.77	109.91
4	E	124	VAL	CA-C-O	-5.38	112.74	119.95
1	A	590	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	A	930	ASP	CB-CA-C	-5.38	100.85	110.70
1	A	1057	VAL	CB-CA-C	-5.38	103.85	111.28
2	B	1045	SER	CA-C-O	-5.38	114.95	120.87
4	E	198	ILE	CB-CA-C	-5.38	103.13	110.77
5	F	100	GLN	N-CA-C	5.38	117.97	111.40
6	H	16	ASP	CB-CA-C	-5.38	101.06	109.08
9	K	84	LYS	CA-CB-CG	5.38	124.86	114.10
1	A	718	VAL	N-CA-CB	-5.38	101.03	110.77
1	A	1301	GLU	CB-CG-CD	5.38	121.75	112.60
2	B	214	ALA	CB-CA-C	5.38	117.91	109.84
4	E	147	HIS	CA-CB-CG	5.38	119.18	113.80
1	A	1259	MET	CA-CB-CG	5.38	124.86	114.10
2	B	465	ASN	CA-C-N	5.38	131.81	121.54
2	B	465	ASN	C-N-CA	5.38	131.81	121.54
2	B	1020	ARG	CG-CD-NE	-5.38	100.17	112.00
1	A	496	GLU	CA-CB-CG	5.38	124.85	114.10
1	A	552	TRP	CB-CG-CD1	-5.38	118.83	126.90
1	A	675	THR	CA-CB-CG2	5.38	119.64	110.50
1	A	718	VAL	CG1-CB-CG2	-5.38	98.97	110.80
1	A	932	GLU	CA-C-N	-5.38	113.08	120.28
1	A	932	GLU	C-N-CA	-5.38	113.08	120.28
1	A	1043	ASP	CB-CG-OD2	5.38	130.76	118.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	871	THR	OG1-CB-CG2	-5.38	98.55	109.30
3	C	215	GLU	CB-CA-C	-5.38	98.98	110.32
5	F	109	VAL	N-CA-CB	-5.38	106.14	112.32
1	A	354	SER	CA-C-N	-5.37	113.88	121.13
1	A	354	SER	C-N-CA	-5.37	113.88	121.13
1	A	670	ILE	O-C-N	-5.37	116.83	122.95
2	B	124	TYR	CD1-CG-CD2	-5.37	110.04	118.10
2	B	561	TRP	CA-C-N	-5.37	115.21	122.63
2	B	561	TRP	C-N-CA	-5.37	115.21	122.63
5	F	87	LYS	CD-CE-NZ	-5.37	94.70	111.90
7	I	17	ARG	CA-CB-CG	-5.37	103.35	114.10
9	K	60	ALA	CA-C-N	-5.37	113.76	122.36
9	K	60	ALA	C-N-CA	-5.37	113.76	122.36
1	A	790	ASP	CB-CA-C	5.37	119.64	111.80
2	B	245	GLU	O-C-N	-5.37	115.44	122.59
2	B	593	PRO	N-CD-CG	5.37	111.26	103.20
2	B	972	LYS	O-C-N	5.37	129.90	123.13
8	J	60	PHE	CA-C-O	5.37	126.11	120.42
1	A	305	ASP	N-CA-C	5.37	126.04	111.00
2	B	804	GLY	N-CA-C	5.37	125.91	113.18
2	B	834	ASN	CB-CG-OD1	-5.37	110.06	120.80
1	A	290	GLU	OE1-CD-OE2	5.37	135.78	122.90
2	B	286	PHE	N-CA-C	-5.37	105.33	111.07
2	B	797	TYR	N-CA-CB	5.37	117.79	110.01
5	F	96	THR	OG1-CB-CG2	-5.37	98.56	109.30
10	L	27	LEU	CA-C-O	-5.37	112.83	120.51
4	E	79	TRP	CA-CB-CG	-5.37	103.40	113.60
2	B	979	LYS	CB-CG-CD	5.37	123.64	111.30
3	C	62	PHE	CZ-CE2-CD2	-5.37	110.34	120.00
4	E	188	LEU	CB-CG-CD1	-5.37	94.61	110.70
1	A	1229	SER	CA-CB-OG	5.36	121.83	111.10
7	I	47	GLU	CB-CG-CD	5.36	121.72	112.60
2	B	892	LYS	CA-C-O	-5.36	113.15	119.05
4	E	215	MET	N-CA-C	5.36	126.01	111.00
5	F	139	PRO	CA-CB-CG	5.36	114.69	104.50
2	B	514	LEU	CB-CA-C	5.36	118.59	109.80
2	B	1020	ARG	N-CA-CB	-5.36	100.99	110.42
1	A	1077	THR	CA-C-O	-5.36	114.87	120.55
2	B	734	HIS	O-C-N	5.36	130.10	121.53
1	A	58	LEU	CD1-CG-CD2	-5.36	99.02	110.80
1	A	445	ASN	N-CA-CB	-5.36	101.82	110.71
1	A	1103	GLU	CA-CB-CG	5.36	124.81	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	204	SER	CA-C-N	-5.36	113.48	120.44
3	C	204	SER	C-N-CA	-5.36	113.48	120.44
1	A	1217	LYS	CA-C-O	-5.35	113.29	119.61
3	C	120	ILE	N-CA-C	5.35	116.26	110.21
4	E	47	CYS	CA-CB-SG	-5.35	102.09	114.40
1	A	268	ASP	OD1-CG-OD2	-5.35	110.06	122.90
1	A	112	LYS	CB-CG-CD	-5.35	98.99	111.30
1	A	1331	SER	N-CA-C	5.35	118.04	107.98
2	B	667	GLN	CA-C-N	5.35	131.33	121.70
2	B	667	GLN	C-N-CA	5.35	131.33	121.70
6	H	36	CYS	N-CA-CB	5.35	117.95	109.71
2	B	560	GLU	CB-CG-CD	5.35	121.69	112.60
2	B	1053	GLU	N-CA-C	-5.35	105.53	111.36
2	B	1078	GLY	N-CA-C	5.35	125.85	113.18
2	B	1153	GLU	O-C-N	-5.35	116.55	122.86
2	B	95	ILE	CB-CA-C	-5.34	102.66	110.62
6	H	58	THR	N-CA-C	5.34	117.12	108.41
7	I	109	ILE	N-CA-C	5.34	115.65	108.17
10	L	70	ARG	CG-CD-NE	5.34	123.76	112.00
10	L	37	LYS	CA-CB-CG	-5.34	103.41	114.10
1	A	149	GLU	O-C-N	5.34	129.00	122.75
1	A	890	ASP	CA-C-N	-5.34	113.50	120.44
1	A	890	ASP	C-N-CA	-5.34	113.50	120.44
1	A	1407	GLU	OE1-CD-OE2	-5.34	110.08	122.90
3	C	66	ARG	CB-CG-CD	5.34	123.58	111.30
1	A	39	GLU	N-CA-CB	-5.34	102.40	111.69
2	B	1156	ASP	OD1-CG-OD2	-5.34	110.08	122.90
3	C	24	ASN	CA-C-N	5.34	129.92	122.23
3	C	24	ASN	C-N-CA	5.34	129.92	122.23
1	A	428	TYR	N-CA-C	5.34	118.05	110.10
1	A	739	ASP	OD1-CG-OD2	-5.34	110.09	122.90
2	B	1162	ILE	N-CA-CB	-5.34	102.24	111.63
4	E	85	GLU	CG-CD-OE2	5.34	130.68	118.40
1	A	605	MET	N-CA-CB	-5.33	102.05	111.39
9	K	54	ARG	N-CA-C	5.33	119.05	112.54
1	A	52	GLY	CA-C-O	-5.33	111.29	120.57
1	A	527	THR	OG1-CB-CG2	-5.33	98.63	109.30
1	A	695	LYS	CG-CD-CE	5.33	123.57	111.30
2	B	517	THR	CA-C-N	-5.33	112.72	122.38
2	B	517	THR	C-N-CA	-5.33	112.72	122.38
2	B	780	VAL	CA-CB-CG2	-5.33	101.33	110.40
2	B	940	PRO	CB-CA-C	-5.33	102.76	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	I	34	TYR	CD1-CE1-CZ	5.33	129.19	119.60
1	A	606	LEU	O-C-N	-5.33	117.17	123.41
1	A	845	LEU	N-CA-C	-5.33	105.62	113.61
2	B	47	GLN	N-CA-C	5.33	122.15	110.80
1	A	748	MET	N-CA-CB	5.33	117.88	109.94
1	A	1449	SER	N-CA-C	5.33	118.24	109.72
1	A	268	ASP	CA-C-O	5.32	126.09	119.97
1	A	1277	GLU	CG-CD-OE2	5.32	130.64	118.40
1	A	1428	VAL	N-CA-CB	-5.32	104.64	110.65
1	A	135	PHE	CA-C-O	5.32	126.59	120.90
1	A	626	ASN	N-CA-C	-5.32	101.49	109.15
1	A	1068	ALA	CA-C-O	5.32	126.19	120.55
2	B	392	ARG	CA-C-O	-5.32	113.28	118.97
2	B	614	SER	CB-CA-C	5.32	118.96	109.38
2	B	895	ASP	O-C-N	5.32	130.20	122.43
5	F	80	ALA	CA-C-O	5.32	124.90	119.05
7	I	97	MET	CG-SD-CE	-5.32	89.20	100.90
9	K	6	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	A	671	ALA	N-CA-C	5.32	118.78	110.32
1	A	918	GLU	CG-CD-OE2	5.32	130.63	118.40
1	A	114	LEU	CD1-CG-CD2	-5.32	99.10	110.80
1	A	708	MET	O-C-N	-5.32	116.67	123.26
2	B	30	SER	CA-C-N	-5.32	112.09	120.60
2	B	30	SER	C-N-CA	-5.32	112.09	120.60
2	B	1136	ASP	OD1-CG-OD2	-5.32	110.14	122.90
5	F	129	LYS	N-CA-CB	-5.32	102.45	111.17
1	A	983	ILE	CA-C-N	-5.32	111.64	120.68
1	A	983	ILE	C-N-CA	-5.32	111.64	120.68
2	B	723	VAL	CG1-CB-CG2	5.32	122.49	110.80
2	B	711	GLU	N-CA-C	5.31	121.56	109.81
1	A	241	VAL	CA-C-N	5.31	123.54	119.66
1	A	241	VAL	C-N-CA	5.31	123.54	119.66
2	B	118	ARG	N-CA-C	-5.31	105.40	111.14
2	B	571	PRO	N-CA-CB	-5.31	97.49	103.33
2	B	680	THR	CA-CB-CG2	5.31	119.53	110.50
2	B	805	THR	N-CA-C	-5.31	102.04	109.69
6	H	136	LYS	CA-CB-CG	5.31	124.72	114.10
2	B	761	HIS	ND1-CE1-NE2	5.31	113.71	108.40
6	H	144	ILE	CA-CB-CG2	5.31	119.53	110.50
1	A	390	GLN	N-CA-C	5.31	117.07	111.28
1	A	588	LEU	CB-CG-CD1	-5.31	94.77	110.70
2	B	258	LEU	CD1-CG-CD2	-5.31	99.12	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1158	PHE	CA-CB-CG	-5.31	108.49	113.80
1	A	364	VAL	CA-CB-CG2	5.31	119.42	110.40
1	A	1326	ARG	CD-NE-CZ	-5.31	116.97	124.40
10	L	28	LYS	N-CA-C	5.31	122.11	110.80
2	B	280	ILE	CB-CA-C	-5.31	104.69	110.37
1	A	606	LEU	N-CA-CB	-5.30	101.53	111.13
2	B	1198	TYR	O-C-N	5.30	127.53	122.07
4	E	38	PRO	N-CA-CB	5.30	108.82	103.25
7	I	94	ASP	CA-C-N	5.30	128.76	120.75
7	I	94	ASP	C-N-CA	5.30	128.76	120.75
7	I	115	LYS	N-CA-CB	5.30	117.69	110.42
2	B	417	PHE	O-C-N	-5.30	115.50	122.39
6	H	59	ILE	CB-CA-C	-5.30	104.31	111.63
1	A	973	ILE	CA-C-O	-5.30	114.90	120.57
2	B	595	ARG	CA-C-O	5.30	126.57	120.90
5	F	87	LYS	N-CA-C	-5.30	105.61	111.71
6	H	85	GLY	N-CA-C	5.30	125.74	113.18
9	K	59	ALA	N-CA-C	5.30	117.45	109.23
9	K	111	LEU	N-CA-C	5.30	122.09	110.80
1	A	465	TYR	CB-CA-C	-5.30	99.88	110.42
2	B	1040	ASN	N-CA-C	5.30	118.45	109.76
8	J	45	CYS	N-CA-CB	-5.30	102.17	109.91
8	J	55	ASP	CB-CA-C	5.30	120.53	112.00
10	L	45	ALA	N-CA-C	-5.30	99.51	110.80
4	E	52	ARG	CA-C-O	5.30	125.10	119.80
1	A	244	PRO	O-C-N	5.30	127.71	121.46
2	B	419	THR	CB-CA-C	-5.30	99.88	110.42
3	C	184	ASN	N-CA-C	5.30	116.63	109.11
6	H	84	ALA	CA-C-N	5.30	131.79	121.41
6	H	84	ALA	C-N-CA	5.30	131.79	121.41
6	H	116	TYR	CB-CA-C	-5.30	99.88	110.42
1	A	230	ARG	N-CA-CB	-5.29	103.60	109.74
1	A	749	ALA	N-CA-CB	-5.29	101.60	110.39
3	C	124	LEU	CA-C-O	-5.29	112.43	119.10
1	A	1317	MET	CB-CA-C	5.29	121.49	110.32
2	B	115	GLN	N-CA-C	5.29	122.08	110.80
2	B	237	VAL	N-CA-CB	-5.29	102.57	112.36
2	B	538	ASN	CB-CG-ND2	5.29	124.34	116.40
2	B	662	MET	CA-CB-CG	-5.29	103.51	114.10
5	F	146	TRP	O-C-N	-5.29	116.35	123.23
1	A	1061	GLY	CA-C-N	-5.29	112.63	120.94
1	A	1061	GLY	C-N-CA	-5.29	112.63	120.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1332	PHE	CA-C-O	-5.29	114.27	120.20
6	H	116	TYR	CA-C-O	5.29	128.08	120.51
2	B	217	ARG	CA-C-O	-5.29	115.59	121.51
2	B	275	TYR	N-CA-CB	-5.29	103.69	113.89
2	B	776	GLN	O-C-N	-5.29	115.99	122.34
2	B	1020	ARG	NE-CZ-NH2	-5.29	114.44	119.20
6	H	5	LEU	N-CA-CB	5.29	119.43	110.49
6	H	7	ASP	CB-CG-OD2	5.29	130.56	118.40
1	A	68	GLN	CA-CB-CG	5.29	124.67	114.10
1	A	436	ILE	CB-CA-C	-5.29	105.53	111.45
1	A	700	ASN	N-CA-CB	-5.29	104.16	112.46
2	B	996	ARG	N-CA-C	5.29	117.04	111.28
2	B	1081	LEU	CB-CA-C	-5.29	101.03	109.75
4	E	110	PHE	CB-CA-C	-5.29	101.39	110.16
10	L	33	GLU	N-CA-C	5.29	122.06	110.80
1	A	102	VAL	O-C-N	5.28	127.09	121.91
2	B	168	GLY	CA-C-O	5.28	129.76	120.57
3	C	25	VAL	N-CA-CB	5.28	121.66	111.62
6	H	54	SER	CA-CB-OG	-5.28	100.53	111.10
7	I	115	LYS	CB-CA-C	-5.28	104.58	111.40
1	A	130	ASP	CB-CG-OD1	5.28	130.55	118.40
2	B	837	ASP	CB-CG-OD2	5.28	130.55	118.40
4	E	32	GLN	N-CA-C	5.28	120.09	111.37
2	B	1169	MET	CA-C-O	-5.28	115.36	122.44
4	E	21	GLU	CB-CA-C	-5.28	101.87	110.85
1	A	536	LEU	CD1-CG-CD2	-5.28	99.19	110.80
2	B	332	ASP	O-C-N	-5.28	116.63	122.07
6	H	103	LYS	CA-C-O	-5.28	112.96	120.51
1	A	150	THR	CB-CA-C	5.28	118.47	109.24
1	A	571	LEU	CB-CG-CD2	5.28	126.53	110.70
1	A	641	VAL	N-CA-C	-5.28	105.24	110.62
2	B	277	LYS	N-CA-CB	-5.28	102.86	110.56
2	B	768	THR	OG1-CB-CG2	-5.28	98.75	109.30
7	I	70	ARG	CD-NE-CZ	-5.28	117.01	124.40
1	A	1135	ARG	CG-CD-NE	-5.28	100.39	112.00
2	B	359	GLU	CA-C-O	-5.28	113.07	119.03
2	B	768	THR	CA-CB-OG1	5.28	117.51	109.60
3	C	230	MET	N-CA-CB	-5.28	100.52	110.07
4	E	188	LEU	CD1-CG-CD2	-5.28	99.20	110.80
8	J	32	GLU	O-C-N	-5.28	115.57	122.59
1	A	415	LEU	N-CA-C	5.27	122.03	110.80
1	A	1328	TYR	CD1-CE1-CZ	5.27	129.09	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	103	ASN	CA-CB-CG	5.27	117.87	112.60
2	B	1194	ILE	O-C-N	5.27	128.80	123.00
2	B	238	ALA	O-C-N	-5.27	116.84	123.27
4	E	172	GLU	CG-CD-OE2	5.27	130.52	118.40
1	A	1283	VAL	CB-CA-C	-5.27	102.77	110.62
2	B	654	ARG	CB-CA-C	-5.27	99.41	111.95
3	C	206	ASN	N-CA-CB	5.27	119.39	110.49
3	C	225	ALA	O-C-N	5.27	129.25	122.93
9	K	112	GLN	CA-C-N	-5.27	115.03	122.94
9	K	112	GLN	C-N-CA	-5.27	115.03	122.94
1	A	174	ILE	CA-C-O	-5.27	114.89	120.53
1	A	439	ASN	CA-C-O	5.27	127.47	118.94
1	A	1278	ASN	O-C-N	5.27	126.56	121.56
5	F	98	ALA	N-CA-C	-5.27	105.71	111.82
6	H	45	GLU	CG-CD-OE1	5.27	130.51	118.40
8	J	45	CYS	CA-CB-SG	5.27	126.51	114.40
1	A	325	ILE	CG1-CB-CG2	-5.26	94.90	110.70
1	A	1003	LYS	N-CA-C	5.26	117.70	111.33
2	B	594	ALA	N-CA-CB	5.26	118.41	110.30
2	B	648	HIS	N-CA-CB	5.26	118.34	110.39
2	B	879	ARG	CA-C-O	-5.26	112.98	120.51
9	K	90	ALA	CA-C-N	-5.26	113.43	120.54
9	K	90	ALA	C-N-CA	-5.26	113.43	120.54
1	A	1138	ILE	CA-CB-CG2	5.26	119.45	110.50
3	C	164	ALA	O-C-N	5.26	129.48	122.43
1	A	537	ARG	NH1-CZ-NH2	5.26	126.14	119.30
1	A	1319	VAL	N-CA-CB	-5.26	103.84	111.21
3	C	47	ASP	N-CA-CB	-5.26	102.75	111.49
2	B	224	GLN	CA-C-O	5.26	126.62	120.20
1	A	1231	ASP	CB-CG-OD1	-5.26	106.31	118.40
2	B	202	TYR	N-CA-CB	-5.26	103.07	111.43
2	B	1033	LYS	CA-C-O	-5.26	115.30	120.82
3	C	194	GLU	O-C-N	5.26	128.39	122.19
6	H	22	LYS	CG-CD-CE	-5.26	99.21	111.30
1	A	1440	ALA	N-CA-CB	-5.25	102.87	110.70
2	B	710	LEU	CA-C-O	-5.25	115.37	120.89
2	B	875	GLU	CB-CG-CD	5.25	121.53	112.60
1	A	387	ARG	O-C-N	-5.25	116.63	122.09
1	A	1359	ASP	O-C-N	5.25	129.58	122.59
1	A	1421	CYS	CA-C-N	5.25	130.61	122.26
1	A	1421	CYS	C-N-CA	5.25	130.61	122.26
1	A	656	TRP	CA-CB-CG	5.25	123.58	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	448	ILE	N-CA-CB	5.25	118.66	111.41
7	I	91	ARG	CB-CG-CD	-5.25	99.22	111.30
1	A	876	ALA	O-C-N	5.25	129.70	122.46
9	K	5	ASP	CA-CB-CG	5.25	117.85	112.60
9	K	97	LYS	N-CA-CB	5.25	118.70	110.46
2	B	317	CYS	CA-C-O	-5.25	115.30	120.70
4	E	140	LEU	N-CA-CB	-5.25	102.22	110.46
5	F	122	MET	O-C-N	-5.25	116.17	122.15
1	A	400	PRO	CA-C-O	-5.25	111.05	120.60
1	A	987	VAL	N-CA-C	5.25	116.02	110.72
1	A	128	ILE	CA-CB-CG2	5.24	119.42	110.50
1	A	172	PRO	N-CD-CG	5.24	111.06	103.20
1	A	703	THR	CA-CB-CG2	-5.24	101.59	110.50
2	B	335	GLY	O-C-N	-5.24	117.08	122.17
2	B	1046	PRO	CA-C-O	-5.24	115.46	121.86
3	C	78	GLU	CA-CB-CG	-5.24	103.61	114.10
1	A	145	LYS	CB-CA-C	-5.24	101.47	110.22
1	A	1094	VAL	CA-CB-CG2	-5.24	101.49	110.40
4	E	16	PHE	CB-CA-C	5.24	121.07	110.38
2	B	304	ASP	N-CA-CB	5.24	118.93	110.86
2	B	493	SER	CA-CB-OG	-5.24	100.62	111.10
2	B	365	THR	CA-C-O	5.24	126.86	120.99
2	B	598	GLU	CG-CD-OE2	5.24	130.45	118.40
1	A	1256	GLU	CB-CG-CD	5.24	121.50	112.60
2	B	877	PRO	CA-C-N	-5.24	111.54	121.54
2	B	877	PRO	C-N-CA	-5.24	111.54	121.54
4	E	123	LEU	N-CA-CB	-5.24	101.64	110.49
7	I	109	ILE	CA-CB-CG1	5.24	119.30	110.40
2	B	448	ILE	CB-CA-C	-5.24	102.88	110.63
2	B	727	LYS	CG-CD-CE	-5.24	99.26	111.30
4	E	163	GLU	OE1-CD-OE2	-5.24	110.33	122.90
5	F	79	ARG	CA-C-O	5.24	126.89	120.92
2	B	252	SER	CB-CA-C	-5.23	101.31	109.84
1	A	749	ALA	CA-C-N	-5.23	113.67	122.25
1	A	749	ALA	C-N-CA	-5.23	113.67	122.25
2	B	538	ASN	CA-C-O	5.23	126.72	120.28
2	B	870	ILE	N-CA-C	-5.23	100.61	106.21
3	C	232	VAL	CA-C-O	-5.23	114.83	121.48
4	E	67	GLU	CA-C-N	5.23	127.56	120.44
4	E	67	GLU	C-N-CA	5.23	127.56	120.44
5	F	108	PHE	CA-C-N	-5.23	116.29	123.46
5	F	108	PHE	C-N-CA	-5.23	116.29	123.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	423	ASP	CA-CB-CG	5.23	117.83	112.60
1	A	823	GLY	CA-C-O	5.23	126.05	120.30
1	A	1293	SER	CA-CB-OG	-5.23	100.64	111.10
2	B	544	CYS	O-C-N	-5.23	115.82	122.78
4	E	161	LYS	N-CA-C	5.23	117.39	111.11
2	B	906	SER	N-CA-CB	-5.23	103.35	111.35
2	B	802	PRO	O-C-N	5.23	128.96	123.10
4	E	146	HIS	CE1-NE2-CD2	5.23	114.23	109.00
2	B	116	GLU	CA-C-N	-5.23	111.99	120.72
2	B	116	GLU	C-N-CA	-5.23	111.99	120.72
1	A	369	SER	CB-CA-C	-5.22	100.97	110.63
1	A	976	THR	N-CA-C	-5.22	104.35	111.56
1	A	1034	GLU	CB-CA-C	5.22	118.97	110.24
2	B	198	ASP	CB-CA-C	-5.22	100.27	109.62
2	B	353	LYS	N-CA-C	5.22	117.05	111.36
8	J	44	TYR	CG-CD1-CE1	5.22	129.04	121.20
1	A	18	GLN	CB-CG-CD	5.22	121.48	112.60
1	A	113	LEU	CB-CA-C	5.22	118.11	109.70
1	A	138	ILE	N-CA-C	5.22	115.44	110.53
1	A	550	LEU	CB-CA-C	-5.22	102.12	110.79
1	A	1078	GLN	N-CA-CB	5.22	118.07	110.65
2	B	974	PRO	N-CD-CG	5.22	111.03	103.20
1	A	10	PRO	CA-C-N	-5.22	114.27	122.73
1	A	10	PRO	C-N-CA	-5.22	114.27	122.73
2	B	255	GLN	CG-CD-NE2	-5.22	108.57	116.40
2	B	1155	SER	CA-C-N	5.22	128.28	120.87
2	B	1155	SER	C-N-CA	5.22	128.28	120.87
8	J	54	VAL	N-CA-CB	-5.22	105.32	111.90
9	K	114	LEU	N-CA-CB	5.22	119.38	110.50
1	A	160	GLN	CA-CB-CG	5.22	124.54	114.10
1	A	553	VAL	CA-CB-CG2	5.22	119.27	110.40
3	C	110	THR	CA-C-N	-5.22	115.74	123.05
3	C	110	THR	C-N-CA	-5.22	115.74	123.05
7	I	98	VAL	CA-C-O	-5.22	116.36	121.58
7	I	118	ARG	CA-CB-CG	5.22	124.54	114.10
2	B	1076	HIS	CA-C-O	5.22	125.95	119.79
1	A	362	ASP	N-CA-C	5.22	119.28	113.02
1	A	861	GLY	CA-C-O	-5.22	113.22	119.01
1	A	1219	THR	CB-CA-C	-5.22	100.65	110.67
1	A	1260	LEU	N-CA-CB	5.22	117.71	109.94
2	B	386	LEU	CD1-CG-CD2	-5.22	99.32	110.80
2	B	1021	MET	CA-C-O	5.22	127.89	121.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	I	19	ASP	OD1-CG-OD2	-5.22	110.38	122.90
1	A	76	GLU	CB-CG-CD	5.21	121.47	112.60
1	A	637	LYS	O-C-N	-5.21	116.82	122.19
1	A	902	LEU	N-CA-C	-5.21	106.68	112.57
4	E	99	HIS	N-CA-CB	5.21	119.30	110.49
6	H	104	PHE	N-CA-C	5.21	121.91	110.80
1	A	1116	LEU	N-CA-CB	-5.21	102.30	110.69
2	B	913	GLY	O-C-N	-5.21	119.49	123.35
2	B	914	LYS	CD-CE-NZ	-5.21	95.23	111.90
3	C	109	SER	O-C-N	-5.21	115.66	122.59
1	A	287	HIS	N-CA-C	5.21	117.70	111.71
1	A	462	VAL	O-C-N	5.21	128.59	122.81
1	A	654	ASN	CA-C-O	5.21	125.94	120.42
1	A	1323	ASP	O-C-N	-5.21	115.33	121.32
2	B	694	ASP	N-CA-C	5.21	118.17	110.46
2	B	792	MET	N-CA-CB	-5.21	101.70	111.13
6	H	4	THR	CA-CB-CG2	5.21	119.35	110.50
5	F	96	THR	CA-C-O	5.21	126.07	120.55
6	H	124	ARG	CA-C-N	5.21	130.50	123.11
6	H	124	ARG	C-N-CA	5.21	130.50	123.11
1	A	462	VAL	CG1-CB-CG2	-5.20	99.35	110.80
1	A	693	VAL	N-CA-C	-5.20	105.46	110.72
2	B	340	ALA	CA-C-N	5.20	128.72	121.02
2	B	340	ALA	C-N-CA	5.20	128.72	121.02
3	C	170	TRP	CA-C-O	5.20	125.94	119.12
7	I	48	LEU	N-CA-C	-5.20	105.67	112.23
7	I	103	CYS	N-CA-CB	5.20	117.60	109.85
1	A	634	THR	CA-CB-CG2	-5.20	101.66	110.50
1	A	991	LYS	CA-CB-CG	5.20	124.50	114.10
1	A	1274	ARG	CG-CD-NE	-5.20	100.56	112.00
2	B	515	HIS	CA-CB-CG	5.20	119.00	113.80
2	B	908	GLU	N-CA-C	-5.20	104.54	111.87
3	C	142	VAL	N-CA-CB	-5.20	104.86	110.53
1	A	1348	LEU	CA-C-O	5.20	126.06	120.55
1	A	350	ARG	CA-C-N	5.20	131.55	122.82
1	A	350	ARG	C-N-CA	5.20	131.55	122.82
1	A	1227	ILE	CA-CB-CG1	5.20	119.23	110.40
2	B	701	ILE	CA-CB-CG1	5.20	119.23	110.40
1	A	602	ASP	CA-C-N	5.19	132.51	122.07
1	A	602	ASP	C-N-CA	5.19	132.51	122.07
2	B	910	VAL	CB-CA-C	-5.19	102.94	111.51
1	A	169	ASN	CA-C-O	5.19	127.05	121.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	174	ILE	CB-CA-C	5.19	118.54	110.96
2	B	205	ILE	CA-CB-CG2	5.19	119.33	110.50
2	B	554	ILE	CA-CB-CG2	-5.19	101.67	110.50
4	E	67	GLU	CB-CA-C	5.19	119.03	110.88
1	A	1235	LYS	CB-CG-CD	5.19	123.24	111.30
1	A	1450	LEU	CB-CA-C	5.19	119.96	110.10
2	B	821	GLN	N-CA-CB	-5.19	102.66	111.69
8	J	11	GLY	O-C-N	5.19	128.74	122.25
1	A	25	GLU	CB-CG-CD	5.19	121.42	112.60
1	A	356	ASP	OD1-CG-OD2	5.19	135.35	122.90
7	I	32	CYS	CB-CA-C	-5.19	101.22	111.60
1	A	1161	THR	N-CA-C	5.19	116.40	108.52
2	B	325	GLN	O-C-N	-5.19	116.08	122.20
2	B	579	ARG	NE-CZ-NH2	-5.19	114.53	119.20
2	B	972	LYS	CD-CE-NZ	-5.19	95.30	111.90
2	B	1019	SER	CA-C-N	-5.19	109.38	121.52
2	B	1019	SER	C-N-CA	-5.19	109.38	121.52
6	H	25	ARG	CG-CD-NE	-5.19	100.59	112.00
2	B	627	PHE	CB-CA-C	-5.19	100.57	109.65
2	B	945	GLU	N-CA-CB	-5.19	102.18	110.63
2	B	1108	ARG	CG-CD-NE	-5.19	100.59	112.00
2	B	1178	ASN	CB-CA-C	-5.19	104.37	111.73
1	A	831	THR	O-C-N	-5.18	115.89	122.27
1	A	936	LEU	CD1-CG-CD2	-5.18	99.39	110.80
1	A	1071	SER	N-CA-CB	-5.18	101.78	110.39
2	B	69	LEU	N-CA-CB	-5.18	101.73	110.49
4	E	46	TYR	CA-C-N	-5.18	114.76	122.74
4	E	46	TYR	C-N-CA	-5.18	114.76	122.74
4	E	191	LYS	N-CA-CB	-5.18	102.55	110.85
2	B	28	GLU	N-CA-C	5.18	118.38	111.75
2	B	648	HIS	CA-CB-CG	5.18	118.98	113.80
3	C	127	ARG	CG-CD-NE	-5.18	100.60	112.00
1	A	1363	VAL	O-C-N	-5.18	117.67	123.26
1	A	1209	MET	CA-C-N	-5.18	111.26	121.41
1	A	1209	MET	C-N-CA	-5.18	111.26	121.41
2	B	981	ALA	CA-C-O	-5.18	115.19	120.89
4	E	160	GLU	CB-CA-C	5.18	119.44	110.84
5	F	86	THR	N-CA-C	5.18	117.54	110.55
7	I	94	ASP	CB-CA-C	5.18	118.92	110.17
1	A	664	THR	CA-CB-CG2	-5.17	101.70	110.50
2	B	738	PHE	N-CA-CB	-5.17	102.43	110.04
7	I	18	GLU	CB-CG-CD	5.17	121.40	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	857	ARG	NE-CZ-NH2	5.17	123.86	119.20
1	A	669	THR	CA-C-N	-5.17	115.70	122.37
1	A	669	THR	C-N-CA	-5.17	115.70	122.37
1	A	939	ASP	CA-C-O	-5.17	114.97	121.02
1	A	1154	TYR	N-CA-C	-5.17	101.34	109.25
2	B	43	LEU	CA-C-O	-5.17	113.30	119.35
2	B	341	LEU	CB-CG-CD1	5.17	126.22	110.70
4	E	42	PHE	CA-C-N	-5.17	112.09	121.14
4	E	42	PHE	C-N-CA	-5.17	112.09	121.14
7	I	30	ARG	CB-CA-C	-5.17	99.79	109.72
10	L	54	ARG	CA-C-O	-5.17	113.23	119.59
2	B	764	SER	N-CA-CB	-5.17	102.42	110.43
7	I	60	GLN	CA-C-O	5.17	126.21	120.63
9	K	70	ARG	CB-CA-C	5.17	120.95	109.94
1	A	589	GLN	O-C-N	5.17	129.87	123.15
1	A	834	THR	OG1-CB-CG2	-5.17	98.96	109.30
1	A	908	LEU	CB-CG-CD2	-5.17	95.20	110.70
2	B	1216	LEU	N-CA-C	-5.17	100.30	108.73
1	A	1324	PRO	N-CA-C	5.17	120.39	114.03
4	E	18	THR	CA-C-N	-5.17	113.38	120.46
4	E	18	THR	C-N-CA	-5.17	113.38	120.46
2	B	180	TYR	CA-C-O	5.17	125.70	119.61
9	K	72	LYS	N-CA-C	-5.16	99.55	108.69
2	B	1129	ARG	CG-CD-NE	-5.16	100.64	112.00
2	B	105	SER	CA-CB-OG	5.16	121.42	111.10
3	C	135	GLN	OE1-CD-NE2	-5.16	117.44	122.60
7	I	12	ASN	O-C-N	-5.16	117.20	123.03
10	L	57	LEU	O-C-N	-5.16	116.74	122.93
1	A	411	ASP	CA-CB-CG	-5.16	107.44	112.60
1	A	1169	ILE	O-C-N	5.16	127.14	121.83
2	B	1047	PHE	CA-C-O	-5.16	115.26	121.40
6	H	38	LEU	CA-C-N	-5.16	115.72	122.99
6	H	38	LEU	C-N-CA	-5.16	115.72	122.99
6	H	112	ILE	CG1-CB-CG2	-5.16	95.22	110.70
2	B	289	LEU	N-CA-C	-5.16	106.58	112.92
10	L	37	LYS	N-CA-C	5.16	121.78	110.80
2	B	130	VAL	N-CA-C	5.16	120.06	109.34
2	B	609	ILE	N-CA-C	-5.16	101.03	108.71
2	B	1012	ILE	CG1-CB-CG2	-5.16	95.23	110.70
4	E	128	PRO	N-CD-CG	5.16	110.93	103.20
5	F	152	ILE	CG1-CB-CG2	-5.16	95.23	110.70
8	J	22	LEU	CA-CB-CG	5.16	134.35	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	J	25	LEU	CD1-CG-CD2	5.16	122.14	110.80
1	A	1196	GLU	N-CA-CB	-5.15	102.46	110.55
2	B	788	ARG	CG-CD-NE	-5.15	100.66	112.00
1	A	919	ILE	CA-CB-CG1	5.15	119.16	110.40
1	A	1378	GLN	CA-C-N	-5.15	114.42	122.51
1	A	1378	GLN	C-N-CA	-5.15	114.42	122.51
2	B	746	SER	N-CA-C	-5.15	106.97	113.20
1	A	1005	GLU	CG-CD-OE2	-5.15	106.55	118.40
2	B	411	PRO	CA-C-N	5.15	127.64	120.63
2	B	411	PRO	C-N-CA	5.15	127.64	120.63
2	B	915	THR	CA-C-O	-5.15	115.41	121.44
3	C	162	GLY	O-C-N	-5.15	118.67	123.87
4	E	141	VAL	CA-CB-CG1	5.15	119.16	110.40
5	F	142	SER	N-CA-C	5.15	118.34	110.20
2	B	138	GLU	OE1-CD-OE2	-5.15	110.54	122.90
1	A	681	GLU	CB-CG-CD	5.15	121.35	112.60
1	A	702	LEU	CA-C-O	-5.15	115.00	120.92
1	A	771	GLU	CB-CA-C	-5.15	104.96	111.86
2	B	738	PHE	N-CA-C	-5.15	103.35	110.35
6	H	78	SER	CA-C-N	-5.15	114.17	122.82
6	H	78	SER	C-N-CA	-5.15	114.17	122.82
1	A	1207	LEU	CB-CA-C	5.15	118.62	109.72
2	B	992	ILE	CA-C-O	-5.15	116.64	120.96
7	I	44	TYR	CB-CA-C	-5.15	101.44	109.72
1	A	1434	ALA	N-CA-C	5.14	117.18	110.08
2	B	46	GLN	N-CA-CB	5.14	117.68	110.12
2	B	103	ASN	N-CA-C	-5.14	99.84	110.80
2	B	251	ILE	CA-C-O	-5.14	114.35	120.78
1	A	438	ASP	OD1-CG-OD2	-5.14	110.56	122.90
1	A	993	LEU	CD1-CG-CD2	5.14	122.11	110.80
2	B	103	ASN	CA-C-O	-5.14	113.16	120.51
2	B	391	ASP	CA-C-N	-5.14	113.68	122.11
2	B	391	ASP	C-N-CA	-5.14	113.68	122.11
2	B	655	LYS	N-CA-C	5.14	117.62	111.71
10	L	53	HIS	CA-CB-CG	-5.14	108.66	113.80
1	A	702	LEU	CA-C-N	-5.14	113.90	122.64
1	A	702	LEU	C-N-CA	-5.14	113.90	122.64
1	A	1062	GLU	CG-CD-OE1	-5.14	106.58	118.40
2	B	315	LYS	N-CA-C	5.14	119.74	112.75
1	A	171	GLN	OE1-CD-NE2	5.14	127.74	122.60
1	A	566	ILE	CA-C-N	5.14	134.34	121.80
1	A	566	ILE	C-N-CA	5.14	134.34	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1134	ILE	CB-CA-C	5.14	119.31	112.22
4	E	74	ASP	OD1-CG-OD2	-5.14	110.57	122.90
1	A	86	LEU	CD1-CG-CD2	-5.14	99.50	110.80
1	A	96	ILE	O-C-N	-5.14	116.15	122.57
1	A	676	MET	CG-SD-CE	5.14	112.20	100.90
1	A	677	ARG	CA-C-N	5.14	127.16	120.28
1	A	677	ARG	C-N-CA	5.14	127.16	120.28
2	B	933	SER	CA-C-O	5.14	129.53	120.80
3	C	13	ALA	CA-C-N	-5.14	113.02	121.80
3	C	13	ALA	C-N-CA	-5.14	113.02	121.80
4	E	125	PRO	CA-C-O	-5.14	114.48	120.85
9	K	13	GLY	CA-C-O	-5.14	115.43	122.31
1	A	1176	LEU	N-CA-CB	5.13	119.23	110.50
2	B	247	GLY	N-CA-C	-5.13	101.01	113.18
6	H	117	SER	CA-C-N	-5.13	115.71	122.85
6	H	117	SER	C-N-CA	-5.13	115.71	122.85
7	I	118	ARG	N-CA-CB	-5.13	101.28	109.19
1	A	573	SER	O-C-N	-5.13	117.19	122.94
1	A	614	PHE	N-CA-C	5.13	117.47	109.52
1	A	690	VAL	CB-CA-C	-5.13	105.40	111.97
1	A	1043	ASP	CB-CA-C	-5.13	99.59	110.31
1	A	1376	THR	CA-CB-OG1	5.13	117.30	109.60
2	B	336	ARG	CG-CD-NE	-5.13	100.71	112.00
6	H	97	MET	O-C-N	-5.13	115.84	122.97
1	A	15	LYS	N-CA-C	-5.13	107.40	113.97
1	A	742	ASN	O-C-N	-5.13	115.96	122.27
1	A	1125	ALA	O-C-N	-5.13	115.38	122.46
2	B	410	GLY	CA-C-O	5.13	128.86	121.52
1	A	1262	LYS	N-CA-C	5.13	116.56	111.07
2	B	113	TYR	CA-C-O	-5.13	115.37	120.96
2	B	1148	LYS	N-CA-C	5.13	117.77	111.82
3	C	3	GLU	CA-CB-CG	-5.13	103.84	114.10
8	J	64	ASN	CA-CB-CG	5.13	117.73	112.60
1	A	685	GLU	CA-CB-CG	5.13	124.35	114.10
2	B	297	ILE	CA-CB-CG2	-5.13	101.79	110.50
2	B	801	LYS	CB-CA-C	5.13	116.24	108.86
4	E	52	ARG	NE-CZ-NH2	-5.13	114.59	119.20
1	A	486	GLU	OE1-CD-OE2	-5.12	110.60	122.90
3	C	12	GLU	CB-CA-C	5.12	120.15	110.62
9	K	42	LEU	CA-C-N	-5.12	111.37	121.41
9	K	42	LEU	C-N-CA	-5.12	111.37	121.41
2	B	1014	PRO	O-C-N	5.12	128.37	122.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	147	SER	CA-C-N	-5.12	112.75	121.97
5	F	147	SER	C-N-CA	-5.12	112.75	121.97
8	J	22	LEU	CB-CA-C	5.12	119.39	110.79
1	A	858	ASN	CB-CG-OD1	-5.12	110.56	120.80
1	A	866	PHE	CB-CG-CD2	5.12	129.40	120.70
2	B	181	LEU	N-CA-CB	-5.12	102.91	110.49
6	H	101	ALA	O-C-N	5.12	129.06	123.27
1	A	717	ASN	CB-CG-OD1	5.12	131.04	120.80
1	A	1436	ILE	CA-C-O	-5.12	114.68	120.67
2	B	106	ASP	OD1-CG-OD2	-5.12	110.62	122.90
8	J	27	GLU	N-CA-C	5.12	117.99	111.69
2	B	110	HIS	CB-CA-C	-5.12	101.24	109.89
4	E	131	THR	O-C-N	5.12	129.84	123.19
9	K	8	GLU	CA-C-N	-5.12	111.60	121.58
9	K	8	GLU	C-N-CA	-5.12	111.60	121.58
9	K	106	GLU	CA-C-O	5.12	125.65	119.61
10	L	67	PHE	CA-C-O	-5.12	114.46	120.60
1	A	131	SER	CB-CA-C	5.11	121.11	110.32
1	A	833	GLU	CG-CD-OE2	-5.11	106.64	118.40
2	B	617	ARG	NH1-CZ-NH2	5.11	125.95	119.30
2	B	934	LYS	CB-CG-CD	5.11	123.06	111.30
9	K	8	GLU	CA-C-O	-5.11	113.20	120.51
1	A	379	VAL	N-CA-CB	5.11	116.29	110.72
1	A	1220	PHE	CE1-CZ-CE2	-5.11	110.80	120.00
4	E	117	THR	CB-CA-C	-5.11	101.75	109.26
2	B	1013	ASN	CB-CA-C	5.11	116.07	108.87
9	K	28	PRO	O-C-N	-5.11	116.20	123.05
1	A	244	PRO	N-CD-CG	-5.11	95.54	103.20
1	A	392	VAL	CA-C-O	-5.11	115.74	121.05
1	A	1094	VAL	N-CA-CB	-5.11	103.51	110.56
2	B	112	LEU	N-CA-C	5.11	116.73	108.41
3	C	3	GLU	CA-C-N	5.11	131.29	121.54
3	C	3	GLU	C-N-CA	5.11	131.29	121.54
3	C	136	ASP	CB-CG-OD2	5.11	130.15	118.40
3	C	248	ILE	CA-C-O	5.11	126.58	121.27
6	H	61	SER	CA-C-O	-5.11	112.05	118.43
1	A	1415	SER	CA-C-O	5.11	125.26	119.18
2	B	299	GLU	CA-CB-CG	5.11	124.31	114.10
1	A	557	ASP	CB-CG-OD1	5.10	130.14	118.40
2	B	455	SER	N-CA-C	-5.10	107.22	113.50
4	E	207	ARG	N-CA-CB	-5.10	102.08	111.37
1	A	376	TYR	CA-C-O	-5.10	114.48	119.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	384	ASN	O-C-N	-5.10	116.02	122.19
1	A	1420	ASP	CA-CB-CG	-5.10	107.50	112.60
2	B	283	VAL	O-C-N	-5.10	116.03	121.80
2	B	512	ARG	CD-NE-CZ	-5.10	117.25	124.40
2	B	613	VAL	CA-CB-CG2	5.10	119.08	110.40
2	B	798	TYR	CE1-CZ-CE2	-5.10	110.09	120.30
2	B	1002	THR	CA-C-N	-5.10	113.39	120.38
2	B	1002	THR	C-N-CA	-5.10	113.39	120.38
2	B	1046	PRO	CB-CA-C	-5.10	103.34	110.63
1	A	520	CYS	CA-C-O	5.10	124.96	119.15
1	A	1176	LEU	CB-CG-CD2	5.10	126.00	110.70
3	C	157	CYS	CB-CA-C	-5.10	99.63	109.37
3	C	224	GLN	N-CA-C	5.10	117.61	109.81
2	B	1153	GLU	CA-CB-CG	-5.10	103.91	114.10
4	E	151	PRO	CA-N-CD	-5.10	104.86	112.00
7	I	59	VAL	N-CA-C	5.10	116.94	108.99
7	I	61	ASP	CB-CG-OD2	5.10	130.12	118.40
1	A	847	ASP	O-C-N	-5.10	115.17	122.41
1	A	955	PRO	N-CD-CG	5.10	110.84	103.20
1	A	623	GLY	CA-C-O	-5.09	116.68	122.33
2	B	124	TYR	N-CA-C	-5.09	99.95	110.80
3	C	173	ALA	CB-CA-C	-5.09	100.89	109.50
1	A	446	ARG	CB-CA-C	-5.09	101.94	110.19
1	A	657	LEU	N-CA-C	-5.09	106.57	112.89
2	B	1041	GLU	CG-CD-OE2	-5.09	106.69	118.40
3	C	133	ILE	N-CA-C	5.09	115.61	108.89
1	A	659	HIS	CG-ND1-CE1	-5.09	100.64	109.30
2	B	764	SER	CA-CB-OG	-5.09	100.92	111.10
2	B	1006	ILE	CB-CA-C	-5.09	103.29	111.59
7	I	32	CYS	CA-C-O	5.09	128.50	121.88
3	C	175	ALA	CA-C-N	-5.09	116.66	123.17
3	C	175	ALA	C-N-CA	-5.09	116.66	123.17
4	E	86	PRO	O-C-N	-5.09	115.87	122.23
1	A	492	PRO	CB-CA-C	5.09	117.64	110.98
1	A	1072	ILE	N-CA-CB	5.09	119.76	110.86
1	A	1155	ASP	CB-CG-OD1	5.09	130.10	118.40
8	J	59	LYS	CB-CG-CD	5.09	123.00	111.30
1	A	629	LEU	CA-C-N	-5.09	111.54	120.29
1	A	629	LEU	C-N-CA	-5.09	111.54	120.29
1	A	1054	LEU	CA-C-O	5.09	125.79	119.79
1	A	1161	THR	CA-CB-CG2	5.09	119.15	110.50
1	A	1299	VAL	N-CA-CB	-5.09	101.95	111.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	527	THR	CB-CA-C	5.09	116.83	109.45
2	B	557	PHE	N-CA-C	-5.09	105.73	111.28
3	C	199	LYS	O-C-N	5.09	127.51	122.12
7	I	92	ARG	CG-CD-NE	-5.09	100.81	112.00
1	A	626	ASN	CB-CA-C	5.08	118.40	110.67
2	B	333	PHE	CB-CA-C	-5.08	102.04	110.68
3	C	81	GLU	N-CA-C	-5.08	101.42	109.96
3	C	189	THR	OG1-CB-CG2	-5.08	99.13	109.30
8	J	64	ASN	CB-CA-C	5.08	119.76	110.10
1	A	139	TRP	CB-CA-C	-5.08	102.30	110.74
1	A	544	ASP	CB-CG-OD1	5.08	130.09	118.40
6	H	92	ASP	CA-CB-CG	5.08	117.68	112.60
9	K	27	ALA	O-C-N	-5.08	117.08	121.71
1	A	378	GLU	O-C-N	5.08	129.84	123.23
2	B	1160	VAL	CA-C-N	-5.08	113.88	122.67
2	B	1160	VAL	C-N-CA	-5.08	113.88	122.67
4	E	129	PRO	O-C-N	5.08	130.75	121.10
6	H	132	LEU	CA-CB-CG	5.08	134.08	116.30
1	A	54	ASN	O-C-N	-5.08	115.83	122.59
1	A	1417	GLU	OE1-CD-OE2	-5.08	110.71	122.90
2	B	360	PHE	CA-C-O	5.08	125.97	120.43
3	C	183	TRP	CD2-CE2-CZ2	5.08	127.48	122.40
8	J	13	VAL	CA-C-N	5.08	131.11	121.97
8	J	13	VAL	C-N-CA	5.08	131.11	121.97
1	A	398	GLU	CA-C-O	5.08	125.84	120.36
2	B	215	GLN	CA-C-N	5.08	129.08	121.72
2	B	215	GLN	C-N-CA	5.08	129.08	121.72
2	B	368	GLU	CG-CD-OE1	5.08	130.08	118.40
1	A	1147	THR	O-C-N	-5.08	117.53	123.27
1	A	1351	GLU	CA-CB-CG	-5.08	103.95	114.10
2	B	764	SER	N-CA-C	5.08	120.37	113.16
2	B	1175	LEU	CA-C-N	5.08	129.26	121.19
2	B	1175	LEU	C-N-CA	5.08	129.26	121.19
2	B	1220	ARG	NH1-CZ-NH2	-5.08	112.70	119.30
4	E	73	PRO	N-CA-C	-5.08	102.01	112.47
8	J	45	CYS	N-CA-C	5.08	116.50	110.97
1	A	1015	VAL	CA-C-O	5.07	125.63	119.54
1	A	1116	LEU	CD1-CG-CD2	-5.07	99.64	110.80
1	A	1234	GLU	CG-CD-OE2	-5.07	106.73	118.40
1	A	1274	ARG	CB-CG-CD	5.07	122.97	111.30
2	B	1048	THR	CA-C-O	-5.07	115.12	121.46
3	C	110	THR	N-CA-C	-5.07	101.44	109.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	138	GLU	N-CA-CB	-5.07	102.50	110.46
4	E	84	ASP	CB-CG-OD1	5.07	130.07	118.40
9	K	46	ILE	CA-C-O	5.07	126.72	121.29
2	B	241	ARG	CB-CG-CD	5.07	122.97	111.30
1	A	65	LEU	CA-C-N	5.07	129.11	121.40
1	A	65	LEU	C-N-CA	5.07	129.11	121.40
1	A	645	LEU	CB-CA-C	5.07	119.21	110.79
7	I	113	ASP	CB-CG-OD2	5.07	130.06	118.40
9	K	112	GLN	CG-CD-NE2	5.07	124.01	116.40
1	A	1043	ASP	OD1-CG-OD2	-5.07	110.73	122.90
10	L	68	GLU	CA-C-N	-5.07	115.04	122.19
10	L	68	GLU	C-N-CA	-5.07	115.04	122.19
1	A	686	ALA	N-CA-CB	5.07	117.75	110.20
2	B	206	ASN	N-CA-CB	5.07	120.36	112.25
3	C	169	LYS	N-CA-CB	5.07	117.66	110.06
3	C	229	TYR	N-CA-CB	-5.07	103.28	110.58
3	C	248	ILE	N-CA-CB	5.07	116.14	110.51
7	I	85	PHE	O-C-N	-5.07	117.39	123.27
1	A	281	HIS	N-CA-CB	5.07	117.63	110.13
1	A	590	ARG	CA-C-N	5.07	130.14	123.00
1	A	590	ARG	C-N-CA	5.07	130.14	123.00
1	A	801	GLU	CA-CB-CG	-5.07	103.97	114.10
3	C	162	GLY	N-CA-C	-5.07	102.88	110.38
5	F	101	ILE	O-C-N	-5.07	116.92	121.89
6	H	131	ASN	CA-C-N	5.07	131.22	121.54
6	H	131	ASN	C-N-CA	5.07	131.22	121.54
9	K	62	LYS	CA-C-N	-5.07	116.42	122.90
9	K	62	LYS	C-N-CA	-5.07	116.42	122.90
1	A	44	THR	CA-C-N	5.06	131.21	121.54
1	A	44	THR	C-N-CA	5.06	131.21	121.54
1	A	698	GLN	CG-CD-NE2	-5.06	108.80	116.40
1	A	1173	HIS	CB-CA-C	5.06	119.72	110.10
2	B	958	GLN	CB-CG-CD	5.06	121.21	112.60
1	A	416	ARG	CA-CB-CG	5.06	124.22	114.10
2	B	303	TYR	CZ-CE2-CD2	5.06	128.71	119.60
2	B	781	PHE	O-C-N	5.06	128.14	122.22
2	B	1160	VAL	O-C-N	-5.06	116.24	122.57
3	C	50	GLU	CA-C-N	-5.06	116.22	123.11
3	C	50	GLU	C-N-CA	-5.06	116.22	123.11
8	J	7	CYS	N-CA-C	-5.06	103.03	110.42
1	A	738	LYS	CB-CG-CD	-5.06	99.66	111.30
2	B	314	LEU	CB-CG-CD2	5.06	125.88	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	721	PHE	CA-CB-CG	5.06	118.86	113.80
1	A	1059	HIS	N-CA-C	5.06	116.05	109.72
1	A	1335	ILE	N-CA-CB	5.06	116.47	110.55
2	B	572	HIS	CB-CA-C	5.06	119.99	110.63
2	B	601	ARG	N-CA-C	-5.06	105.77	111.28
3	C	95	CYS	CA-CB-SG	5.06	126.04	114.40
4	E	82	PHE	N-CA-CB	5.06	119.73	111.08
4	E	158	SER	CB-CA-C	5.06	120.70	110.38
1	A	1152	ILE	N-CA-CB	-5.06	105.06	111.64
2	B	1073	TYR	OH-CZ-CE2	5.06	135.07	119.90
1	A	238	CYS	N-CA-CB	5.06	118.79	110.90
1	A	944	ARG	NE-CZ-NH1	5.06	126.56	121.50
7	I	24	ARG	N-CA-CB	5.06	120.35	111.55
1	A	666	ILE	CA-CB-CG1	-5.05	101.81	110.40
2	B	877	PRO	CB-CA-C	-5.05	103.22	111.56
9	K	83	PRO	N-CA-CB	-5.05	97.64	103.15
1	A	712	GLU	CA-CB-CG	5.05	124.21	114.10
2	B	274	PRO	CA-C-N	5.05	133.81	124.82
2	B	274	PRO	C-N-CA	5.05	133.81	124.82
1	A	1290	LYS	CB-CG-CD	5.05	122.92	111.30
1	A	1358	SER	CA-CB-OG	5.05	121.20	111.10
1	A	1365	TYR	CA-C-N	-5.05	111.84	121.94
1	A	1365	TYR	C-N-CA	-5.05	111.84	121.94
1	A	1415	SER	CA-CB-OG	-5.05	101.00	111.10
2	B	788	ARG	N-CA-C	5.05	117.05	110.53
2	B	1165	ILE	CA-CB-CG1	5.05	118.99	110.40
1	A	377	PRO	CA-C-O	-5.05	111.41	120.60
1	A	903	ASN	CA-C-N	-5.05	112.29	120.72
1	A	903	ASN	C-N-CA	-5.05	112.29	120.72
2	B	644	GLU	CB-CG-CD	-5.05	104.02	112.60
4	E	98	ILE	CA-CB-CG1	5.05	118.98	110.40
4	E	173	SER	O-C-N	-5.05	115.49	122.46
2	B	70	ILE	CA-CB-CG2	5.05	119.08	110.50
2	B	689	LEU	CA-C-O	5.05	125.18	119.27
1	A	438	ASP	CA-C-O	5.05	126.74	121.19
1	A	599	SER	CB-CA-C	-5.05	100.23	110.17
3	C	161	LYS	CB-CA-C	-5.05	101.00	109.83
10	L	40	LEU	N-CA-C	-5.05	100.76	107.88
7	I	18	GLU	OE1-CD-OE2	5.04	135.01	122.90
1	A	748	MET	N-CA-C	5.04	117.16	111.11
1	A	976	THR	N-CA-CB	5.04	118.85	111.54
2	B	484	ASN	CA-C-N	-5.04	113.36	122.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	484	ASN	C-N-CA	-5.04	113.36	122.54
1	A	420	ARG	O-C-N	5.04	128.46	122.26
1	A	1356	ILE	CA-C-O	-5.04	115.83	121.17
2	B	432	MET	CA-C-O	-5.04	113.30	120.51
2	B	592	ASN	N-CA-C	5.04	120.95	109.81
2	B	1074	ASN	O-C-N	-5.04	115.89	122.59
2	B	956	THR	CB-CA-C	-5.04	99.75	109.37
4	E	31	THR	CA-CB-CG2	5.04	119.06	110.50
2	B	1029	CYS	CA-C-O	-5.04	115.21	120.55
1	A	9	ALA	O-C-N	5.04	126.32	121.28
1	A	56	PRO	CA-C-O	-5.03	111.44	120.60
1	A	197	PRO	CA-C-N	-5.03	115.69	123.14
1	A	197	PRO	C-N-CA	-5.03	115.69	123.14
1	A	617	VAL	CA-C-O	5.03	126.08	120.59
2	B	301	ILE	CA-CB-CG1	5.03	118.96	110.40
8	J	61	LEU	CA-C-O	-5.03	112.76	119.10
1	A	349	ALA	N-CA-C	5.03	116.64	109.14
1	A	390	GLN	CG-CD-OE1	5.03	130.86	120.80
1	A	1196	GLU	OE1-CD-OE2	5.03	134.97	122.90
2	B	191	LYS	N-CA-CB	5.03	117.61	110.06
2	B	192	LEU	N-CA-C	5.03	119.14	113.15
2	B	636	PRO	N-CA-CB	-5.03	97.97	103.25
2	B	1210	MET	CA-C-O	-5.03	113.06	119.80
4	E	28	TYR	CA-C-N	-5.03	115.51	122.30
4	E	28	TYR	C-N-CA	-5.03	115.51	122.30
4	E	153	HIS	N-CA-C	-5.03	101.50	109.59
7	I	99	LEU	CD1-CG-CD2	-5.03	99.74	110.80
1	A	413	ILE	CG1-CB-CG2	-5.03	95.62	110.70
1	A	537	ARG	NE-CZ-NH1	-5.03	116.47	121.50
1	A	1375	MET	O-C-N	-5.03	115.52	122.46
2	B	479	VAL	N-CA-C	-5.03	104.71	111.44
5	F	93	ILE	CA-CB-CG2	5.03	119.05	110.50
10	L	61	THR	O-C-N	5.03	128.52	122.79
1	A	855	THR	N-CA-C	-5.02	103.77	110.55
1	A	879	GLU	CG-CD-OE2	-5.02	106.85	118.40
2	B	269	ILE	N-CA-CB	-5.02	102.64	111.93
2	B	490	SER	CA-C-N	5.02	127.42	120.29
2	B	490	SER	C-N-CA	5.02	127.42	120.29
3	C	124	LEU	CD1-CG-CD2	5.02	121.85	110.80
5	F	72	LYS	CD-CE-NZ	5.02	127.97	111.90
1	A	635	ARG	O-C-N	-5.02	116.43	122.15
2	B	116	GLU	O-C-N	-5.02	115.70	122.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1307	GLU	N-CA-C	5.02	117.62	109.24
2	B	345	LYS	CA-CB-CG	5.02	124.14	114.10
2	B	499	ASN	CA-C-O	-5.02	113.43	120.21
2	B	724	ASP	CA-CB-CG	5.02	117.62	112.60
2	B	791	THR	CB-CA-C	5.02	118.84	110.81
2	B	1074	ASN	N-CA-C	5.02	121.49	110.80
2	B	1223	ASP	N-CA-C	5.02	121.49	110.80
4	E	163	GLU	N-CA-C	-5.02	105.89	111.36
6	H	79	TRP	N-CA-C	-5.02	101.78	109.41
7	I	20	LYS	CD-CE-NZ	5.02	127.97	111.90
9	K	107	THR	CA-CB-CG2	5.02	119.03	110.50
1	A	123	ARG	NE-CZ-NH2	5.02	123.72	119.20
1	A	1372	VAL	CA-C-O	5.02	126.08	120.71
2	B	225	VAL	CB-CA-C	-5.02	103.73	111.31
2	B	1223	ASP	CA-C-O	-5.02	113.33	120.51
6	H	113	ALA	CA-C-O	5.02	126.98	120.21
2	B	436	VAL	CA-CB-CG2	5.02	118.93	110.40
2	B	751	VAL	CA-C-O	5.02	126.49	121.17
9	K	10	PHE	CA-C-N	5.02	130.85	122.73
9	K	10	PHE	C-N-CA	5.02	130.85	122.73
1	A	656	TRP	NE1-CE2-CZ2	-5.01	122.58	130.10
2	B	313	MET	N-CA-CB	5.01	118.02	110.30
2	B	419	THR	CA-CB-OG1	-5.01	102.08	109.60
2	B	976	ILE	CG1-CB-CG2	-5.01	95.65	110.70
2	B	1034	VAL	CA-CB-CG1	5.01	118.92	110.40
6	H	146	ARG	CD-NE-CZ	5.01	131.42	124.40
1	A	263	THR	CA-C-O	5.01	125.80	120.24
1	A	777	PHE	CD1-CG-CD2	-5.01	111.08	118.60
2	B	464	GLY	CA-C-O	5.01	125.38	119.46
1	A	607	ILE	CB-CA-C	-5.01	101.83	110.65
1	A	1281	ARG	CB-CA-C	-5.01	100.32	109.54
2	B	95	ILE	N-CA-CB	5.01	120.11	111.39
3	C	9	LYS	CD-CE-NZ	5.01	127.94	111.90
1	A	895	LYS	CD-CE-NZ	-5.01	95.87	111.90
1	A	1077	THR	N-CA-CB	-5.01	102.76	110.12
9	K	93	SER	CB-CA-C	-5.01	99.75	110.32
2	B	502	ILE	CA-C-O	-5.01	112.29	120.80
2	B	522	VAL	CA-C-O	5.01	126.93	121.67
2	B	807	ARG	NH1-CZ-NH2	5.01	125.81	119.30
5	F	72	LYS	N-CA-CB	-5.00	101.99	110.50
1	A	412	ARG	CD-NE-CZ	-5.00	117.40	124.40
1	A	83	HIS	N-CA-C	5.00	116.66	108.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	470	LEU	CA-C-N	-5.00	113.09	121.39
1	A	470	LEU	C-N-CA	-5.00	113.09	121.39
1	A	593	GLU	O-C-N	5.00	129.36	122.46
1	A	818	MET	N-CA-C	5.00	117.11	111.11
1	A	1243	VAL	CA-CB-CG1	-5.00	101.90	110.40
2	B	406	LEU	CA-C-O	5.00	125.83	120.38
2	B	854	LEU	N-CA-C	-5.00	101.56	109.96
2	B	1017	ILE	N-CA-C	5.00	119.69	108.88
6	H	30	SER	CB-CA-C	-5.00	101.69	109.84

There are no chirality outliers.

All (191) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1035	TYR	Sidechain
1	A	1046	LEU	Mainchain
1	A	1093	LYS	Peptide
1	A	1111	MET	Mainchain
1	A	1117	THR	Mainchain
1	A	1119	TYR	Sidechain
1	A	1123	GLY	Peptide
1	A	1160	SER	Peptide
1	A	120	GLU	Peptide
1	A	1208	THR	Mainchain
1	A	1220	PHE	Peptide
1	A	1232	ASN	Peptide
1	A	1278	ASN	Sidechain
1	A	128	ILE	Peptide
1	A	1298	TYR	Sidechain
1	A	1301	GLU	Mainchain
1	A	1306	LEU	Mainchain
1	A	1328	TYR	Sidechain
1	A	1361	SER	Mainchain
1	A	1365	TYR	Peptide
1	A	1366	ARG	Sidechain
1	A	1375	MET	Mainchain
1	A	1384	VAL	Peptide
1	A	150	THR	Peptide
1	A	158	PRO	Peptide,Mainchain
1	A	159	THR	Peptide,Mainchain
1	A	165	GLY	Peptide
1	A	191	THR	Peptide

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Mol	Chain	Res	Type	Group
1	A	194	ALA	Peptide
1	A	261	ASP	Peptide
1	A	325	ILE	Peptide
1	A	377	PRO	Mainchain
1	A	399	HIS	Peptide,Mainchain
1	A	434	ARG	Sidechain
1	A	44	THR	Peptide
1	A	441	PRO	Mainchain
1	A	464	PRO	Peptide,Mainchain
1	A	478	TYR	Sidechain
1	A	484	GLY	Mainchain
1	A	504	LEU	Mainchain
1	A	52	GLY	Peptide
1	A	537	ARG	Mainchain
1	A	545	GLN	Mainchain
1	A	555	ASP	Peptide
1	A	556	TRP	Peptide
1	A	60	SER	Peptide
1	A	65	LEU	Peptide
1	A	650	GLN	Sidechain
1	A	659	HIS	Sidechain
1	A	705	LYS	Peptide
1	A	706	HIS	Peptide
1	A	74	MET	Peptide
1	A	741	ASN	Mainchain
1	A	78	PRO	Mainchain
1	A	852	TYR	Sidechain
1	A	870	GLU	Mainchain
1	A	884	ASP	Mainchain
1	A	897	TYR	Sidechain
1	A	900	ASP	Mainchain
1	A	907	THR	Mainchain
1	A	936	LEU	Mainchain
1	A	952	ALA	Mainchain
1	A	966	ASN	Mainchain
1	A	992	ASP	Mainchain
1	A	998	LEU	Mainchain
2	B	1020	ARG	Sidechain
2	B	1025	HIS	Sidechain
2	B	104	GLU	Peptide
2	B	1062	HIS	Sidechain,Mainchain
2	B	107	GLY	Peptide

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Mol	Chain	Res	Type	Group
2	B	1086	PHE	Mainchain
2	B	109	THR	Peptide
2	B	1097	HIS	Sidechain
2	B	1101	ASP	Peptide
2	B	1108	ARG	Peptide
2	B	1109	GLY	Peptide
2	B	1141	HIS	Sidechain
2	B	1152	MET	Peptide
2	B	1153	GLU	Peptide
2	B	1157	ALA	Peptide
2	B	1166	CYS	Mainchain
2	B	1181	GLU	Peptide
2	B	1198	TYR	Sidechain
2	B	1217	TYR	Sidechain
2	B	1221	SER	Peptide
2	B	1222	ARG	Peptide
2	B	124	TYR	Sidechain
2	B	133	LYS	Peptide
2	B	180	TYR	Peptide
2	B	202	TYR	Sidechain
2	B	203	PHE	Sidechain
2	B	23	ALA	Mainchain
2	B	238	ALA	Mainchain
2	B	248	SER	Peptide
2	B	259	TYR	Sidechain
2	B	351	TYR	Sidechain
2	B	369	GLY	Peptide
2	B	408	LEU	Mainchain
2	B	431	TYR	Peptide
2	B	501	PRO	Peptide
2	B	518	HIS	Sidechain
2	B	546	SER	Mainchain
2	B	616	ILE	Mainchain
2	B	620	ARG	Mainchain
2	B	627	PHE	Sidechain
2	B	64	CYS	Peptide
2	B	642	ASP	Peptide
2	B	643	ASP	Peptide
2	B	644	GLU	Peptide
2	B	648	HIS	Sidechain
2	B	692	TYR	Sidechain
2	B	732	SER	Peptide

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Mol	Chain	Res	Type	Group
2	B	769	TYR	Sidechain
2	B	808	ALA	Mainchain
2	B	849	GLY	Mainchain
2	B	851	PHE	Sidechain
2	B	860	MET	Peptide
2	B	882	THR	Peptide
2	B	915	THR	Peptide
2	B	967	ARG	Mainchain
2	B	975	GLN	Mainchain
2	B	984	HIS	Sidechain
2	B	990	ILE	Mainchain
3	C	127	ARG	Mainchain
3	C	140	ASN	Peptide
3	C	156	THR	Mainchain
3	C	163	ILE	Mainchain
3	C	171	GLY	Mainchain
3	C	184	ASN	Peptide
3	C	186	LEU	Mainchain
3	C	190	ASP	Peptide
3	C	20	PHE	Sidechain
3	C	200	GLU	Sidechain
3	C	214	ASN	Peptide
3	C	227	THR	Mainchain
3	C	240	VAL	Mainchain
3	C	261	ALA	Peptide
3	C	267	GLN	Peptide
3	C	34	ARG	Sidechain
3	C	4	GLU	Peptide
3	C	62	PHE	Sidechain
3	C	96	SER	Peptide
4	E	119	SER	Peptide
4	E	125	PRO	Peptide
4	E	135	PHE	Sidechain
4	E	147	HIS	Sidechain
4	E	170	LEU	Peptide
4	E	212	ARG	Sidechain
4	E	56	LYS	Peptide
4	E	61	GLN	Mainchain
4	E	77	SER	Peptide
6	H	102	TYR	Peptide
6	H	103	LYS	Peptide
6	H	127	GLY	Peptide

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Mol	Chain	Res	Type	Group
6	H	131	ASN	Peptide
6	H	135	LEU	Peptide
6	H	136	LYS	Peptide
6	H	17	PRO	Peptide
6	H	29	ALA	Peptide
6	H	3	ASN	Peptide
6	H	54	SER	Peptide
6	H	61	SER	Peptide
6	H	62	SER	Peptide
6	H	86	ASP	Peptide
6	H	87	ARG	Peptide
6	H	88	SER	Peptide
7	I	100	PHE	Mainchain
7	I	111	THR	Peptide
7	I	15	TYR	Sidechain
7	I	3	THR	Peptide
7	I	33	SER	Mainchain
7	I	39	GLY	Mainchain
7	I	43	VAL	Mainchain
7	I	45	ARG	Sidechain
7	I	84	VAL	Mainchain
8	J	49	MET	Mainchain
8	J	9	SER	Mainchain
9	K	111	LEU	Peptide
9	K	40	HIS	Mainchain
9	K	58	PHE	Sidechain
9	K	70	ARG	Mainchain
9	K	71	PHE	Mainchain
10	L	27	LEU	Peptide
10	L	35	SER	Peptide
10	L	49	LYS	Peptide
10	L	59	ALA	Peptide

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	10606	0	10667	1137	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	8690	0	8714	1044	2
3	C	2095	0	2053	276	0
4	E	1760	0	1788	208	1
5	F	670	0	690	74	0
6	H	1068	0	1040	226	0
7	I	990	0	949	108	0
8	J	525	0	538	63	0
9	K	919	0	927	131	0
10	L	364	0	389	107	0
11	A	2	0	0	0	0
12	A	2	0	0	1	0
12	B	1	0	0	0	0
12	C	1	0	0	1	0
12	I	2	0	0	0	0
12	J	1	0	0	2	0
12	L	1	0	0	2	0
13	B	29	0	11	13	0
14	A	2	0	0	0	0
14	B	3	0	0	7	0
All	All	27731	0	27766	3195	2

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 58.

All (3195) 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)
2:B:226:PHE:CD1	2:B:226:PHE:CE1	1.77	1.67
2:B:370:PHE:CD1	2:B:370:PHE:CE1	1.78	1.67
3:C:165:LYS:CG	3:C:165:LYS:CD	1.74	1.65
2:B:18:PHE:CB	2:B:18:PHE:CG	1.79	1.65
4:E:79:TRP:CB	4:E:79:TRP:CG	1.78	1.65
4:E:95:THR:CB	4:E:95:THR:CG2	1.75	1.65
10:L:40:LEU:CG	10:L:40:LEU:CB	1.75	1.65
1:A:302:THR:CG2	1:A:302:THR:CB	1.75	1.64
2:B:606:LYS:CD	2:B:606:LYS:CE	1.75	1.64
8:J:43:ARG:CG	8:J:43:ARG:CD	1.75	1.64
1:A:426:LEU:CD1	1:A:426:LEU:CG	1.74	1.64
4:E:194:GLU:CB	4:E:194:GLU:CG	1.75	1.64
4:E:212:ARG:CG	4:E:212:ARG:CD	1.76	1.64
1:A:1164:PRO:CD	1:A:1164:PRO:CG	1.76	1.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1315:GLU:CB	1:A:1315:GLU:CG	1.75	1.64
1:A:1409:LEU:CD1	1:A:1409:LEU:CG	1.74	1.64
1:A:469:ARG:CB	1:A:469:ARG:CG	1.76	1.63
1:A:975:HIS:CA	1:A:975:HIS:CB	1.75	1.63
2:B:137:TYR:CB	2:B:137:TYR:CG	1.78	1.63
2:B:706:GLN:CB	2:B:706:GLN:CG	1.76	1.63
2:B:241:ARG:CG	2:B:241:ARG:CD	1.75	1.63
2:B:813:LYS:CG	2:B:813:LYS:CD	1.75	1.63
2:B:212:LEU:CG	2:B:212:LEU:CD2	1.75	1.63
2:B:723:VAL:CA	2:B:723:VAL:CB	1.76	1.63
1:A:69:THR:CA	1:A:69:THR:CB	1.74	1.62
2:B:502:ILE:CB	2:B:502:ILE:CG2	1.76	1.62
4:E:31:THR:CB	4:E:31:THR:CG2	1.76	1.62
4:E:98:ILE:CA	4:E:98:ILE:CB	1.76	1.62
6:H:104:PHE:CE2	6:H:104:PHE:CZ	1.82	1.62
1:A:1225:PHE:CB	1:A:1225:PHE:CG	1.75	1.62
2:B:620:ARG:CG	2:B:620:ARG:CD	1.75	1.62
2:B:883:LEU:CD2	2:B:883:LEU:CG	1.78	1.62
1:A:1194:ARG:CB	1:A:1194:ARG:CG	1.76	1.62
4:E:157:SER:CA	4:E:157:SER:CB	1.75	1.62
4:E:180:ARG:CB	4:E:180:ARG:CG	1.74	1.62
1:A:1445:ILE:CB	1:A:1445:ILE:CG2	1.76	1.62
2:B:654:ARG:CB	2:B:654:ARG:CG	1.77	1.62
3:C:245:VAL:CG1	3:C:245:VAL:CB	1.76	1.62
4:E:180:ARG:CG	4:E:180:ARG:CD	1.75	1.62
1:A:889:SER:CA	1:A:889:SER:CB	1.77	1.62
1:A:1286:LYS:CB	1:A:1286:LYS:CG	1.75	1.62
2:B:41:LYS:CD	2:B:41:LYS:CE	1.76	1.62
2:B:787:VAL:CG1	2:B:787:VAL:CB	1.74	1.62
9:K:72:LYS:CE	9:K:72:LYS:CD	1.76	1.62
1:A:843:LYS:CD	1:A:843:LYS:CE	1.74	1.61
1:A:1236:LEU:CD2	1:A:1236:LEU:CG	1.79	1.61
1:A:202:LEU:CD2	1:A:202:LEU:CG	1.76	1.61
7:I:34:TYR:CB	7:I:34:TYR:CG	1.79	1.61
10:L:27:LEU:CB	10:L:27:LEU:CG	1.74	1.61
2:B:883:LEU:CG	2:B:883:LEU:CD1	1.78	1.61
2:B:883:LEU:CG	2:B:883:LEU:CB	1.78	1.61
2:B:1198:TYR:CA	2:B:1198:TYR:CB	1.74	1.61
5:F:72:LYS:CG	5:F:72:LYS:CD	1.79	1.61
1:A:110:CYS:CA	1:A:110:CYS:CB	1.74	1.61
2:B:937:ALA:CA	2:B:937:ALA:CB	1.75	1.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:213:HIS:CB	1:A:213:HIS:CA	1.76	1.61
2:B:249:ARG:C	2:B:249:ARG:CA	1.74	1.61
5:F:72:LYS:CD	5:F:72:LYS:CE	1.76	1.61
10:L:61:THR:CB	10:L:61:THR:CG2	1.77	1.61
1:A:264:PHE:CB	1:A:264:PHE:CG	1.80	1.60
1:A:934:LYS:CG	1:A:934:LYS:CD	1.77	1.60
2:B:509:ALA:CA	2:B:509:ALA:CB	1.76	1.60
2:B:870:ILE:CB	2:B:870:ILE:CG2	1.77	1.60
3:C:218:PRO:CG	3:C:218:PRO:CB	1.77	1.60
1:A:61:ILE:CB	1:A:61:ILE:CG2	1.77	1.60
2:B:1185:CYS:CA	2:B:1185:CYS:CB	1.78	1.60
4:E:43:LYS:CG	4:E:43:LYS:CB	1.78	1.60
6:H:22:LYS:CG	6:H:22:LYS:CD	1.75	1.60
1:A:1176:LEU:CD2	1:A:1176:LEU:CG	1.76	1.60
1:A:1225:PHE:CB	1:A:1225:PHE:CA	1.79	1.60
2:B:660:LYS:CG	2:B:660:LYS:CD	1.76	1.60
10:L:40:LEU:CG	10:L:40:LEU:CD2	1.74	1.60
1:A:720:ARG:CB	1:A:720:ARG:CG	1.76	1.60
2:B:425:THR:CB	2:B:425:THR:CG2	1.77	1.60
2:B:1101:ASP:CB	2:B:1101:ASP:CG	1.75	1.60
2:B:1154:ALA:CA	2:B:1154:ALA:CB	1.77	1.60
3:C:94:LYS:CB	3:C:94:LYS:CG	1.77	1.60
4:E:45:LYS:CD	4:E:45:LYS:CE	1.78	1.60
1:A:31:SER:CA	1:A:31:SER:C	1.75	1.60
2:B:961:LEU:CB	2:B:961:LEU:CG	1.74	1.60
4:E:37:LEU:CD1	4:E:37:LEU:CG	1.75	1.60
4:E:61:GLN:CB	4:E:61:GLN:CG	1.75	1.60
1:A:46:THR:CA	1:A:46:THR:CB	1.78	1.59
1:A:744:LYS:CD	1:A:744:LYS:CE	1.80	1.59
4:E:57:MET:CB	4:E:57:MET:CG	1.77	1.59
10:L:47:ARG:CB	10:L:47:ARG:CG	1.76	1.59
1:A:368:LYS:CD	1:A:368:LYS:CE	1.76	1.59
1:A:635:ARG:CD	1:A:635:ARG:CG	1.80	1.59
4:E:12:LEU:CD1	4:E:12:LEU:CG	1.79	1.59
4:E:54:GLN:CG	4:E:54:GLN:CB	1.76	1.59
9:K:54:ARG:CG	9:K:54:ARG:CD	1.78	1.59
9:K:94:ILE:CA	9:K:94:ILE:CB	1.75	1.59
2:B:238:ALA:CB	2:B:238:ALA:CA	1.79	1.59
1:A:205:GLU:CG	1:A:205:GLU:CD	1.76	1.59
1:A:1350:LYS:CD	1:A:1350:LYS:CE	1.79	1.59
2:B:167:ILE:CB	2:B:167:ILE:CG2	1.75	1.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:415:LEU:CD1	1:A:415:LEU:CG	1.78	1.59
1:A:1235:LYS:CD	1:A:1235:LYS:CE	1.78	1.59
6:H:63:LEU:CD2	6:H:63:LEU:CG	1.76	1.59
7:I:42:LEU:CD1	7:I:42:LEU:CG	1.76	1.59
1:A:237:THR:CB	1:A:237:THR:CG2	1.81	1.58
1:A:274:ILE:CA	1:A:274:ILE:CB	1.75	1.58
1:A:795:GLU:CG	1:A:795:GLU:CD	1.76	1.58
1:A:976:THR:CA	1:A:976:THR:CB	1.75	1.58
1:A:1319:VAL:CG1	1:A:1319:VAL:CB	1.77	1.58
1:A:1432:GLN:CB	1:A:1432:GLN:CG	1.75	1.58
2:B:632:ARG:CG	2:B:632:ARG:CD	1.77	1.58
2:B:934:LYS:CB	2:B:934:LYS:CG	1.75	1.58
1:A:1290:LYS:CD	1:A:1290:LYS:CE	1.81	1.58
1:A:1363:VAL:CG1	1:A:1363:VAL:CB	1.80	1.58
2:B:98:THR:CA	2:B:98:THR:CB	1.74	1.58
2:B:115:GLN:CG	2:B:115:GLN:CD	1.76	1.58
2:B:137:TYR:CB	2:B:137:TYR:CA	1.75	1.58
2:B:617:ARG:CD	2:B:617:ARG:CG	1.78	1.58
3:C:199:LYS:CG	3:C:199:LYS:CD	1.76	1.58
9:K:113:THR:CB	9:K:113:THR:CG2	1.80	1.58
10:L:43:THR:CA	10:L:43:THR:CB	1.74	1.58
1:A:1003:LYS:CG	1:A:1003:LYS:CB	1.80	1.58
1:A:1385:THR:CB	1:A:1385:THR:CG2	1.79	1.58
2:B:217:ARG:CG	2:B:217:ARG:CD	1.74	1.58
2:B:895:ASP:CA	2:B:895:ASP:CB	1.76	1.58
4:E:50:MET:C	4:E:50:MET:CA	1.74	1.58
7:I:46:HIS:CA	7:I:46:HIS:CB	1.76	1.58
1:A:24:PRO:CA	1:A:24:PRO:C	1.74	1.58
1:A:123:ARG:CB	1:A:123:ARG:CG	1.78	1.58
1:A:427:GLN:CB	1:A:427:GLN:CG	1.80	1.58
1:A:1203:ASN:C	1:A:1203:ASN:CA	1.75	1.58
2:B:965:LYS:CD	2:B:965:LYS:CE	1.75	1.58
2:B:1132:GLU:CB	2:B:1132:GLU:CG	1.76	1.58
6:H:107:VAL:CA	6:H:107:VAL:CB	1.80	1.58
1:A:1112:LYS:CG	1:A:1112:LYS:CB	1.79	1.58
2:B:871:THR:CA	2:B:871:THR:CB	1.78	1.58
2:B:1153:GLU:CD	2:B:1153:GLU:CG	1.76	1.58
2:B:1221:SER:CA	2:B:1221:SER:C	1.74	1.58
3:C:267:GLN:C	3:C:267:GLN:CA	1.76	1.58
6:H:22:LYS:CG	6:H:22:LYS:CB	1.78	1.58
10:L:27:LEU:CB	10:L:27:LEU:CA	1.79	1.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4:GLN:CG	1:A:4:GLN:CB	1.80	1.57
1:A:1092:LYS:CG	1:A:1092:LYS:CB	1.76	1.57
1:A:1109:LYS:CD	1:A:1109:LYS:CG	1.78	1.57
1:A:1282:VAL:CB	1:A:1282:VAL:CG2	1.77	1.57
2:B:249:ARG:CD	2:B:249:ARG:CG	1.82	1.57
6:H:131:ASN:CA	6:H:131:ASN:CB	1.78	1.57
7:I:1:MET:CA	7:I:1:MET:CB	1.74	1.57
9:K:54:ARG:CG	9:K:54:ARG:CB	1.75	1.57
1:A:387:ARG:CG	1:A:387:ARG:CD	1.80	1.57
1:A:1080:THR:CA	1:A:1080:THR:C	1.76	1.57
3:C:166:GLU:CB	3:C:166:GLU:CG	1.77	1.57
4:E:197:LYS:CG	4:E:197:LYS:CD	1.75	1.57
9:K:88:LYS:CG	9:K:88:LYS:CD	1.81	1.57
1:A:186:LYS:CB	1:A:186:LYS:CG	1.82	1.57
1:A:279:LEU:CD2	1:A:279:LEU:CG	1.76	1.57
1:A:720:ARG:CG	1:A:720:ARG:CD	1.74	1.57
1:A:983:ILE:N	1:A:983:ILE:CA	1.68	1.57
6:H:77:ARG:CB	6:H:77:ARG:CG	1.80	1.57
7:I:77:LYS:CD	7:I:77:LYS:CG	1.80	1.57
9:K:12:LEU:CG	9:K:12:LEU:CD1	1.80	1.57
1:A:1128:GLN:C	1:A:1128:GLN:CA	1.77	1.57
1:A:1176:LEU:CG	1:A:1176:LEU:CD1	1.78	1.57
2:B:418:LYS:CD	2:B:418:LYS:CE	1.82	1.57
3:C:70:ILE:CB	3:C:70:ILE:CG2	1.82	1.57
3:C:86:CYS:CA	3:C:86:CYS:CB	1.83	1.57
4:E:91:LYS:CB	4:E:91:LYS:CG	1.78	1.57
8:J:30:LEU:CD2	8:J:30:LEU:CG	1.76	1.57
9:K:16:GLU:CG	9:K:16:GLU:CD	1.74	1.57
9:K:89:ASN:CG	9:K:89:ASN:CB	1.78	1.57
10:L:49:LYS:CG	10:L:49:LYS:CD	1.80	1.57
1:A:670:ILE:CB	1:A:670:ILE:CG2	1.79	1.57
1:A:1280:GLU:CG	1:A:1280:GLU:CD	1.78	1.57
2:B:193:LYS:CG	2:B:193:LYS:CD	1.78	1.57
2:B:951:GLN:CG	2:B:951:GLN:CD	1.77	1.57
6:H:56:THR:CA	6:H:56:THR:CB	1.76	1.57
9:K:26:LYS:CD	9:K:26:LYS:CE	1.78	1.57
9:K:111:LEU:CD2	9:K:111:LEU:CG	1.76	1.57
1:A:129:LYS:CB	1:A:129:LYS:CG	1.80	1.56
1:A:147:VAL:CG1	1:A:147:VAL:CB	1.76	1.56
1:A:431:LYS:CG	1:A:431:LYS:CD	1.76	1.56
2:B:108:VAL:CB	2:B:108:VAL:CG2	1.77	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:230:ALA:CA	2:B:230:ALA:CB	1.75	1.56
2:B:451:LYS:CB	2:B:451:LYS:CG	1.75	1.56
2:B:726:ALA:CA	2:B:726:ALA:CB	1.79	1.56
2:B:883:LEU:CB	2:B:883:LEU:CA	1.82	1.56
2:B:1002:THR:CB	2:B:1002:THR:CG2	1.77	1.56
3:C:94:LYS:CG	3:C:94:LYS:CD	1.78	1.56
6:H:32:THR:CA	6:H:32:THR:CB	1.77	1.56
1:A:619:LYS:NZ	1:A:619:LYS:CE	1.69	1.56
1:A:1162:VAL:CG1	1:A:1162:VAL:CB	1.77	1.56
1:A:1176:LEU:CA	1:A:1176:LEU:CB	1.76	1.56
2:B:63:ILE:C	2:B:63:ILE:CA	1.77	1.56
2:B:118:ARG:CA	2:B:118:ARG:CB	1.74	1.56
2:B:227:LYS:CG	2:B:227:LYS:CD	1.78	1.56
2:B:418:LYS:CD	2:B:418:LYS:CG	1.79	1.56
2:B:882:THR:C	2:B:882:THR:CA	1.76	1.56
2:B:106:ASP:CA	2:B:106:ASP:C	1.76	1.56
2:B:192:LEU:CD2	2:B:192:LEU:CG	1.82	1.56
2:B:367:LEU:CD1	2:B:367:LEU:CG	1.79	1.56
2:B:1165:ILE:CA	2:B:1165:ILE:CB	1.81	1.56
7:I:72:ASP:CB	7:I:72:ASP:CG	1.77	1.56
9:K:111:LEU:CG	9:K:111:LEU:CD1	1.83	1.56
10:L:58:LYS:NZ	10:L:58:LYS:CE	1.67	1.56
1:A:144:THR:CA	1:A:144:THR:CB	1.76	1.56
1:A:681:GLU:CD	1:A:681:GLU:CG	1.77	1.56
1:A:711:ARG:CB	1:A:711:ARG:CG	1.80	1.56
1:A:806:ARG:CB	1:A:806:ARG:CG	1.79	1.56
1:A:965:GLN:CG	1:A:965:GLN:CD	1.75	1.56
2:B:25:ILE:CB	2:B:25:ILE:CG2	1.78	1.56
2:B:136:THR:CA	2:B:136:THR:CB	1.78	1.56
2:B:228:LYS:CG	2:B:228:LYS:CD	1.78	1.56
2:B:712:PRO:CB	2:B:712:PRO:CG	1.80	1.56
3:C:35:ARG:CD	3:C:35:ARG:CG	1.83	1.56
3:C:199:LYS:CD	3:C:199:LYS:CE	1.81	1.56
4:E:44:ALA:CB	4:E:44:ALA:CA	1.75	1.56
1:A:1411:GLU:CG	1:A:1411:GLU:CD	1.76	1.56
2:B:622:LYS:CB	2:B:622:LYS:CG	1.81	1.56
2:B:639:ILE:CB	2:B:639:ILE:CG2	1.77	1.56
2:B:735:ALA:N	2:B:735:ALA:CA	1.68	1.56
2:B:1148:LYS:CD	2:B:1148:LYS:CE	1.81	1.56
6:H:136:LYS:CA	6:H:136:LYS:CB	1.77	1.56
1:A:123:ARG:CG	1:A:123:ARG:CD	1.80	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:160:LYS:CG	3:C:160:LYS:CD	1.78	1.55
5:F:123:LYS:NZ	5:F:123:LYS:CE	1.68	1.55
7:I:45:ARG:CG	7:I:45:ARG:CD	1.81	1.55
1:A:104:GLU:CA	1:A:104:GLU:C	1.76	1.55
1:A:843:LYS:CB	1:A:843:LYS:CG	1.76	1.55
1:A:952:ALA:CA	1:A:952:ALA:CB	1.85	1.55
2:B:434:ARG:CG	2:B:434:ARG:CD	1.84	1.55
2:B:451:LYS:CG	2:B:451:LYS:CD	1.80	1.55
2:B:996:ARG:CD	2:B:996:ARG:CG	1.77	1.55
3:C:163:ILE:CB	3:C:163:ILE:CG2	1.84	1.55
4:E:131:THR:CA	4:E:131:THR:CB	1.77	1.55
8:J:38:ARG:CG	8:J:38:ARG:CB	1.85	1.55
1:A:217:LYS:CE	1:A:217:LYS:CD	1.81	1.55
1:A:737:LEU:CD2	1:A:737:LEU:CG	1.81	1.55
2:B:465:ASN:CB	2:B:465:ASN:CG	1.79	1.55
2:B:959:ASP:CB	2:B:959:ASP:CG	1.79	1.55
2:B:1061:GLU:CB	2:B:1061:GLU:CG	1.81	1.55
3:C:214:ASN:CG	3:C:214:ASN:CB	1.75	1.55
9:K:26:LYS:CB	9:K:26:LYS:CG	1.78	1.55
10:L:54:ARG:CG	10:L:54:ARG:CD	1.80	1.55
1:A:601:LYS:CG	1:A:601:LYS:CD	1.81	1.55
1:A:1094:VAL:CG1	1:A:1094:VAL:CB	1.84	1.55
1:A:1102:LYS:CG	1:A:1102:LYS:CB	1.77	1.55
1:A:1221:LYS:CB	1:A:1221:LYS:CG	1.79	1.55
1:A:1350:LYS:CD	1:A:1350:LYS:CG	1.78	1.55
2:B:90:ILE:N	2:B:90:ILE:CA	1.69	1.55
2:B:245:GLU:CA	2:B:245:GLU:C	1.76	1.55
2:B:712:PRO:CG	2:B:712:PRO:CD	1.80	1.55
2:B:933:SER:CA	2:B:933:SER:C	1.74	1.55
1:A:379:VAL:CB	1:A:379:VAL:CG2	1.80	1.55
2:B:961:LEU:CG	2:B:961:LEU:CD2	1.82	1.55
4:E:20:LYS:CG	4:E:20:LYS:CB	1.74	1.55
6:H:111:LEU:CD1	6:H:111:LEU:CG	1.80	1.55
7:I:49:ILE:CB	7:I:49:ILE:CG2	1.81	1.55
1:A:34:LYS:CB	1:A:34:LYS:CG	1.76	1.54
1:A:1133:LEU:CD2	1:A:1133:LEU:CG	1.78	1.54
2:B:916:THR:CB	2:B:916:THR:CG2	1.85	1.54
10:L:49:LYS:CG	10:L:49:LYS:CB	1.75	1.54
1:A:9:ALA:CB	1:A:9:ALA:CA	1.81	1.54
1:A:191:THR:CB	1:A:191:THR:CG2	1.78	1.54
1:A:695:LYS:CG	1:A:695:LYS:CD	1.80	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:916:THR:C	2:B:916:THR:CA	1.80	1.54
2:B:935:ARG:CG	2:B:935:ARG:CD	1.79	1.54
3:C:124:LEU:CD2	3:C:124:LEU:CG	1.77	1.54
3:C:205:LYS:CD	3:C:205:LYS:CE	1.75	1.54
9:K:95:ILE:CB	9:K:95:ILE:CG2	1.74	1.54
10:L:27:LEU:CG	10:L:27:LEU:CD2	1.79	1.54
1:A:49:LYS:CG	1:A:49:LYS:CD	1.79	1.54
2:B:723:VAL:CB	2:B:723:VAL:CG2	1.79	1.54
4:E:162:ARG:CG	4:E:162:ARG:CD	1.86	1.54
6:H:9:ILE:CB	6:H:9:ILE:CA	1.85	1.54
6:H:41:ASP:CB	6:H:41:ASP:CG	1.77	1.54
1:A:157:ASP:CB	1:A:157:ASP:CG	1.81	1.54
1:A:1055:ARG:CG	1:A:1055:ARG:CD	1.82	1.54
1:A:1221:LYS:CG	1:A:1221:LYS:CD	1.81	1.54
1:A:1235:LYS:CG	1:A:1235:LYS:CB	1.82	1.54
2:B:1188:LYS:CG	2:B:1188:LYS:CD	1.76	1.54
3:C:147:LEU:CB	3:C:147:LEU:CG	1.75	1.54
3:C:154:LYS:CG	3:C:154:LYS:CD	1.83	1.54
3:C:205:LYS:CD	3:C:205:LYS:CG	1.85	1.54
4:E:152:LYS:CB	4:E:152:LYS:CG	1.85	1.54
1:A:15:LYS:CG	1:A:15:LYS:CB	1.79	1.54
1:A:830:LYS:CE	1:A:830:LYS:CD	1.79	1.54
2:B:420:LEU:CD1	2:B:420:LEU:CG	1.80	1.54
13:B:3008:CTP:N1	13:B:3008:CTP:C1'	1.69	1.54
5:F:100:GLN:CD	5:F:100:GLN:CG	1.76	1.54
1:A:196:GLU:CG	1:A:196:GLU:CD	1.80	1.53
1:A:992:ASP:CB	1:A:992:ASP:CG	1.81	1.53
2:B:951:GLN:CG	2:B:951:GLN:CB	1.77	1.53
1:A:1222:ASN:CA	1:A:1222:ASN:CB	1.82	1.53
2:B:344:LYS:CB	2:B:344:LYS:CG	1.83	1.53
2:B:1057:LYS:CE	2:B:1057:LYS:CD	1.86	1.53
2:B:1102:LYS:CB	2:B:1102:LYS:CG	1.78	1.53
6:H:11:GLN:CB	6:H:11:GLN:CG	1.82	1.53
7:I:93:LYS:CD	7:I:93:LYS:CE	1.85	1.53
7:I:120:GLN:CG	7:I:120:GLN:CB	1.84	1.53
10:L:38:LEU:CD2	10:L:38:LEU:CG	1.79	1.53
10:L:46:VAL:CB	10:L:46:VAL:CG2	1.86	1.53
1:A:74:MET:CB	1:A:74:MET:CG	1.84	1.53
1:A:698:GLN:CG	1:A:698:GLN:CD	1.79	1.53
1:A:1132:LYS:CG	1:A:1132:LYS:CD	1.80	1.53
2:B:434:ARG:CG	2:B:434:ARG:CB	1.85	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:458:LYS:CG	2:B:458:LYS:CD	1.83	1.53
2:B:592:ASN:CG	2:B:592:ASN:CB	1.79	1.53
3:C:15:LYS:CD	3:C:15:LYS:CE	1.80	1.53
6:H:91:ASP:CA	6:H:91:ASP:C	1.81	1.53
7:I:20:LYS:CE	7:I:20:LYS:CD	1.81	1.53
10:L:49:LYS:NZ	10:L:49:LYS:CE	1.70	1.53
1:A:180:LYS:CG	1:A:180:LYS:CD	1.85	1.53
2:B:41:LYS:CE	2:B:41:LYS:NZ	1.71	1.53
2:B:243:ALA:CA	2:B:243:ALA:CB	1.84	1.53
1:A:867:ILE:CB	1:A:867:ILE:CG2	1.85	1.53
1:A:1080:THR:CA	1:A:1080:THR:CB	1.78	1.53
3:C:146:LYS:CB	3:C:146:LYS:CG	1.86	1.53
4:E:31:THR:CB	4:E:31:THR:CA	1.85	1.53
7:I:3:THR:CB	7:I:3:THR:CG2	1.85	1.53
9:K:55:LYS:CG	9:K:55:LYS:CD	1.82	1.53
1:A:248:PRO:CB	1:A:248:PRO:CG	1.83	1.52
1:A:295:LEU:CD2	1:A:295:LEU:CG	1.83	1.52
1:A:571:LEU:CD2	1:A:571:LEU:CG	1.84	1.52
2:B:882:THR:CB	2:B:882:THR:CG2	1.83	1.52
3:C:15:LYS:CD	3:C:15:LYS:CG	1.84	1.52
5:F:87:LYS:CE	5:F:87:LYS:CD	1.83	1.52
7:I:115:LYS:NZ	7:I:115:LYS:CE	1.72	1.52
9:K:54:ARG:CD	9:K:54:ARG:NE	1.69	1.52
1:A:289:ILE:CA	1:A:289:ILE:CB	1.79	1.52
1:A:508:PRO:CG	1:A:508:PRO:CD	1.80	1.52
1:A:1176:LEU:CG	1:A:1176:LEU:CB	1.83	1.52
2:B:622:LYS:CG	2:B:622:LYS:CD	1.83	1.52
2:B:1029:CYS:C	2:B:1029:CYS:CA	1.79	1.52
4:E:129:PRO:CG	4:E:129:PRO:CD	1.85	1.52
8:J:42:LYS:CG	8:J:42:LYS:CD	1.85	1.52
1:A:705:LYS:CA	1:A:705:LYS:CB	1.84	1.52
1:A:1187:GLN:CB	1:A:1187:GLN:CG	1.85	1.52
1:A:1261:LYS:CD	1:A:1261:LYS:CE	1.86	1.52
2:B:70:ILE:CB	2:B:70:ILE:CA	1.87	1.52
2:B:595:ARG:CD	2:B:595:ARG:CG	1.87	1.52
2:B:733:HIS:CA	2:B:733:HIS:C	1.77	1.52
2:B:962:LYS:CD	2:B:962:LYS:CE	1.88	1.52
2:B:1183:LYS:CB	2:B:1183:LYS:CG	1.79	1.52
9:K:11:LEU:CG	9:K:11:LEU:CD1	1.83	1.52
10:L:48:CYS:C	10:L:48:CYS:CA	1.79	1.52
2:B:415:GLN:CG	2:B:415:GLN:CB	1.86	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:416:LEU:CD2	2:B:416:LEU:CG	1.87	1.52
4:E:152:LYS:CG	4:E:152:LYS:CD	1.82	1.52
6:H:52:GLN:CG	6:H:52:GLN:CD	1.78	1.52
1:A:132:LYS:CG	1:A:132:LYS:CD	1.80	1.52
1:A:133:LYS:NZ	1:A:133:LYS:CE	1.70	1.52
1:A:393:ARG:CG	1:A:393:ARG:CD	1.86	1.52
1:A:984:LYS:CE	1:A:984:LYS:NZ	1.72	1.52
1:A:1003:LYS:CG	1:A:1003:LYS:CD	1.82	1.52
3:C:15:LYS:CG	3:C:15:LYS:CB	1.84	1.52
6:H:2:SER:C	6:H:2:SER:CA	1.82	1.52
6:H:3:ASN:CB	6:H:3:ASN:CG	1.81	1.52
1:A:44:THR:CA	1:A:44:THR:CB	1.88	1.51
1:A:173:THR:CB	1:A:173:THR:CG2	1.86	1.51
1:A:1099:PRO:CB	1:A:1099:PRO:CG	1.79	1.51
2:B:510:LYS:NZ	2:B:510:LYS:CE	1.72	1.51
2:B:1097:HIS:CB	2:B:1097:HIS:CA	1.88	1.51
6:H:139:ASN:CA	6:H:139:ASN:CB	1.84	1.51
1:A:389:THR:CB	1:A:389:THR:CG2	1.86	1.51
2:B:99:LYS:NZ	2:B:99:LYS:CE	1.71	1.51
2:B:368:GLU:CG	2:B:368:GLU:CD	1.79	1.51
2:B:477:ALA:CA	2:B:477:ALA:CB	1.88	1.51
9:K:26:LYS:CD	9:K:26:LYS:CG	1.83	1.51
1:A:199:LEU:CG	1:A:199:LEU:CD1	1.85	1.51
2:B:106:ASP:CG	2:B:106:ASP:CB	1.84	1.51
2:B:227:LYS:NZ	2:B:227:LYS:CE	1.70	1.51
2:B:353:LYS:CG	2:B:353:LYS:CD	1.84	1.51
2:B:1057:LYS:CD	2:B:1057:LYS:CG	1.88	1.51
1:A:121:LEU:CG	1:A:121:LEU:CD1	1.86	1.51
1:A:217:LYS:CD	1:A:217:LYS:CG	1.84	1.51
1:A:601:LYS:CD	1:A:601:LYS:CE	1.89	1.51
1:A:1093:LYS:CG	1:A:1093:LYS:CD	1.88	1.51
2:B:384:ARG:CD	2:B:384:ARG:CG	1.85	1.51
4:E:84:ASP:CB	4:E:84:ASP:CG	1.78	1.51
6:H:19:ARG:CB	6:H:19:ARG:CG	1.85	1.51
7:I:117:LYS:NZ	7:I:117:LYS:CE	1.69	1.51
1:A:978:PRO:CB	1:A:978:PRO:CG	1.79	1.51
1:A:1102:LYS:CG	1:A:1102:LYS:CD	1.89	1.51
2:B:622:LYS:NZ	2:B:622:LYS:CE	1.74	1.51
2:B:655:LYS:CD	2:B:655:LYS:CG	1.86	1.51
3:C:116:LYS:CD	3:C:116:LYS:CE	1.88	1.51
1:A:143:LYS:NZ	1:A:143:LYS:CE	1.71	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1132:LYS:CD	1:A:1132:LYS:CE	1.89	1.50
1:A:1281:ARG:CD	1:A:1281:ARG:CG	1.86	1.50
2:B:191:LYS:CG	2:B:191:LYS:CB	1.84	1.50
4:E:165:LEU:CD1	4:E:165:LEU:CG	1.84	1.50
10:L:64:LEU:CD1	10:L:64:LEU:CG	1.84	1.50
1:A:5:GLN:CG	1:A:5:GLN:CB	1.89	1.50
2:B:1163:CYS:CA	2:B:1163:CYS:CB	1.89	1.50
3:C:205:LYS:CG	3:C:205:LYS:CB	1.86	1.50
6:H:136:LYS:CA	6:H:136:LYS:C	1.83	1.50
1:A:843:LYS:CD	1:A:843:LYS:CG	1.85	1.50
2:B:233:PRO:CB	2:B:233:PRO:CG	1.76	1.50
2:B:239:GLU:CD	2:B:239:GLU:CG	1.80	1.50
2:B:668:ASP:CB	2:B:668:ASP:CG	1.82	1.50
4:E:43:LYS:CD	4:E:43:LYS:CE	1.87	1.50
9:K:4:PRO:CG	9:K:4:PRO:CD	1.75	1.50
1:A:860:LEU:CD1	1:A:860:LEU:CG	1.88	1.50
2:B:1189:ILE:CB	2:B:1189:ILE:CG2	1.86	1.50
4:E:161:LYS:CD	4:E:161:LYS:CE	1.89	1.50
7:I:1:MET:CB	7:I:1:MET:CG	1.90	1.50
1:A:1450:LEU:CD2	1:A:1450:LEU:CG	1.86	1.50
2:B:115:GLN:CG	2:B:115:GLN:CB	1.89	1.50
3:C:135:GLN:CD	3:C:135:GLN:CG	1.80	1.50
2:B:344:LYS:CE	2:B:344:LYS:CD	1.86	1.49
2:B:531:GLN:CB	2:B:531:GLN:CG	1.89	1.49
1:A:567:LYS:NZ	1:A:567:LYS:CE	1.74	1.49
1:A:830:LYS:CD	1:A:830:LYS:CG	1.87	1.49
1:A:938:LYS:CG	1:A:938:LYS:CD	1.90	1.49
2:B:180:TYR:C	2:B:180:TYR:CA	1.81	1.49
2:B:408:LEU:CD1	2:B:408:LEU:CG	1.87	1.49
2:B:1020:ARG:CA	2:B:1020:ARG:C	1.84	1.49
4:E:41:ASP:CB	4:E:41:ASP:CG	1.84	1.49
7:I:120:GLN:CG	7:I:120:GLN:CD	1.80	1.49
1:A:291:GLU:CD	1:A:291:GLU:CG	1.80	1.49
1:A:61:ILE:CB	1:A:61:ILE:CA	1.89	1.49
1:A:188:ASP:C	1:A:188:ASP:CA	1.83	1.49
2:B:103:ASN:CB	2:B:103:ASN:CG	1.85	1.49
2:B:1002:THR:C	2:B:1002:THR:CA	1.83	1.49
9:K:20:LYS:CB	9:K:20:LYS:CG	1.91	1.49
1:A:1130:GLN:CG	1:A:1130:GLN:CD	1.86	1.49
2:B:531:GLN:CG	2:B:531:GLN:CD	1.83	1.49
2:B:593:PRO:CG	2:B:593:PRO:CB	1.87	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:76:LYS:NZ	5:F:76:LYS:CE	1.71	1.49
5:F:87:LYS:CE	5:F:87:LYS:NZ	1.74	1.49
9:K:102:LYS:CE	9:K:102:LYS:CD	1.91	1.49
10:L:38:LEU:CG	10:L:38:LEU:CD1	1.86	1.49
1:A:566:ILE:CB	1:A:566:ILE:CG2	1.88	1.48
1:A:1277:GLU:CG	1:A:1277:GLU:CD	1.85	1.48
2:B:227:LYS:CD	2:B:227:LYS:CE	1.89	1.48
2:B:915:THR:CA	2:B:915:THR:CB	1.85	1.48
10:L:62:LYS:NZ	10:L:62:LYS:CE	1.72	1.48
1:A:110:CYS:CB	1:A:110:CYS:SG	2.02	1.48
1:A:1122:PRO:CG	1:A:1122:PRO:CB	1.77	1.48
1:A:1290:LYS:CE	1:A:1290:LYS:NZ	1.72	1.48
2:B:646:LEU:CD1	2:B:646:LEU:CG	1.90	1.48
4:E:152:LYS:CD	4:E:152:LYS:CE	1.88	1.48
5:F:111:LEU:CD2	5:F:111:LEU:CG	1.89	1.48
10:L:26:THR:CA	10:L:26:THR:CB	1.91	1.48
10:L:45:ALA:CA	10:L:45:ALA:CB	1.87	1.48
9:K:110:ASN:CB	9:K:110:ASN:CG	1.83	1.48
10:L:26:THR:CB	10:L:26:THR:CG2	1.90	1.48
1:A:1285:MET:CG	1:A:1285:MET:SD	2.02	1.48
1:A:69:THR:CA	1:A:69:THR:C	1.86	1.48
1:A:1187:GLN:CG	1:A:1187:GLN:CD	1.85	1.48
2:B:432:MET:CE	2:B:432:MET:SD	2.02	1.48
2:B:556:THR:CB	2:B:556:THR:CG2	1.89	1.48
1:A:1109:LYS:CG	1:A:1109:LYS:CB	1.89	1.47
2:B:270:LYS:NZ	2:B:270:LYS:CE	1.71	1.47
2:B:1080:LYS:NZ	2:B:1080:LYS:CE	1.76	1.47
6:H:104:PHE:C	6:H:104:PHE:CA	1.85	1.47
1:A:620:LYS:NZ	1:A:620:LYS:CE	1.75	1.47
2:B:171:PRO:CB	2:B:171:PRO:CG	1.82	1.47
2:B:502:ILE:CB	2:B:502:ILE:CA	1.90	1.47
4:E:103:LYS:NZ	4:E:103:LYS:CE	1.73	1.47
2:B:895:ASP:CB	2:B:895:ASP:CG	1.86	1.47
3:C:50:GLU:CG	3:C:50:GLU:CD	1.82	1.47
4:E:131:THR:CB	4:E:131:THR:CG2	1.86	1.47
4:E:162:ARG:CG	4:E:162:ARG:CB	1.90	1.47
2:B:246:LYS:CA	2:B:246:LYS:C	1.83	1.47
4:E:1:MET:SD	4:E:1:MET:CG	2.02	1.47
7:I:20:LYS:CE	7:I:20:LYS:NZ	1.75	1.47
10:L:62:LYS:CE	10:L:62:LYS:CD	1.90	1.47
3:C:73:GLN:CD	3:C:73:GLN:CG	1.84	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:K:55:LYS:CD	9:K:55:LYS:CE	1.93	1.47
1:A:49:LYS:CD	1:A:49:LYS:CE	1.89	1.46
2:B:164:LYS:CE	2:B:164:LYS:CD	1.89	1.46
2:B:646:LEU:CG	2:B:646:LEU:CD2	1.93	1.46
2:B:1156:ASP:CG	2:B:1156:ASP:CB	1.85	1.46
9:K:26:LYS:CE	9:K:26:LYS:NZ	1.74	1.46
1:A:66:LYS:CB	1:A:66:LYS:CG	1.94	1.46
1:A:1144:LYS:CD	1:A:1144:LYS:CE	1.89	1.46
1:A:1262:LYS:CG	1:A:1262:LYS:CD	1.91	1.46
1:A:1350:LYS:CE	1:A:1350:LYS:NZ	1.75	1.46
4:E:201:LYS:CG	4:E:201:LYS:CD	1.91	1.46
2:B:1219:ASP:CB	2:B:1219:ASP:CG	1.87	1.46
3:C:124:LEU:CG	3:C:124:LEU:CD1	1.91	1.46
4:E:129:PRO:CG	4:E:129:PRO:CB	1.93	1.46
3:C:137:LYS:CB	3:C:137:LYS:CG	1.94	1.46
1:A:1110:ASN:CG	1:A:1110:ASN:CB	1.88	1.45
4:E:43:LYS:CE	4:E:43:LYS:NZ	1.76	1.45
6:H:123:MET:SD	6:H:123:MET:CG	2.04	1.45
2:B:723:VAL:CB	2:B:723:VAL:CG1	1.95	1.45
7:I:17:ARG:CG	7:I:17:ARG:CD	1.93	1.45
1:A:1232:ASN:CG	1:A:1232:ASN:CB	1.89	1.45
9:K:20:LYS:CG	9:K:20:LYS:CD	1.92	1.45
2:B:346:GLU:CG	2:B:346:GLU:CD	1.85	1.45
1:A:1222:ASN:CB	1:A:1222:ASN:CG	1.87	1.45
1:A:703:THR:CB	1:A:703:THR:CG2	1.92	1.44
1:A:938:LYS:CD	1:A:938:LYS:CE	1.94	1.44
2:B:1098:MET:CE	2:B:1098:MET:SD	2.06	1.44
7:I:34:TYR:OH	7:I:34:TYR:CZ	1.67	1.44
1:A:346:ASP:CB	1:A:346:ASP:CG	1.88	1.44
1:A:423:ASP:CB	1:A:423:ASP:CG	1.88	1.44
5:F:129:LYS:CD	5:F:129:LYS:CE	1.95	1.44
3:C:260:LEU:CD1	3:C:260:LEU:CG	1.92	1.44
1:A:705:LYS:CE	1:A:705:LYS:NZ	1.77	1.44
2:B:527:THR:OG1	2:B:527:THR:CB	1.63	1.44
2:B:641:GLU:CG	2:B:641:GLU:CD	1.88	1.44
2:B:901:PRO:CG	2:B:901:PRO:CD	1.79	1.44
2:B:961:LEU:CG	2:B:961:LEU:CD1	1.95	1.44
8:J:42:LYS:CD	8:J:42:LYS:CE	1.96	1.44
2:B:975:GLN:NE2	2:B:975:GLN:CD	1.72	1.44
2:B:986:GLN:CG	2:B:986:GLN:CD	1.91	1.44
2:B:1097:HIS:ND1	2:B:1097:HIS:HA	1.24	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:1:MET:SD	4:E:1:MET:CE	2.06	1.44
1:A:24:PRO:CG	1:A:24:PRO:CB	1.86	1.43
2:B:436:VAL:CA	2:B:436:VAL:CB	1.94	1.43
6:H:131:ASN:CB	6:H:131:ASN:CG	1.91	1.43
1:A:748:MET:SD	1:A:748:MET:CG	2.05	1.43
1:A:752:LYS:CE	1:A:752:LYS:CD	1.96	1.43
1:A:910:PRO:CG	1:A:910:PRO:CB	1.78	1.43
7:I:13:MET:SD	7:I:13:MET:CE	2.04	1.43
10:L:68:GLU:CG	10:L:68:GLU:CD	1.91	1.43
1:A:941:LYS:CE	1:A:941:LYS:CD	1.97	1.43
1:A:1446:ASP:CB	1:A:1446:ASP:CG	1.90	1.43
5:F:106:PRO:CG	5:F:106:PRO:CB	1.82	1.43
7:I:93:LYS:CE	7:I:93:LYS:NZ	1.80	1.43
1:A:991:LYS:NZ	1:A:991:LYS:CE	1.79	1.42
2:B:868:MET:CE	2:B:868:MET:SD	2.08	1.42
3:C:35:ARG:CG	3:C:35:ARG:CB	1.94	1.42
2:B:199:MET:CE	2:B:199:MET:SD	2.08	1.42
2:B:598:GLU:CG	2:B:598:GLU:CD	1.92	1.42
1:A:162:VAL:CB	1:A:162:VAL:CG2	1.97	1.42
1:A:1132:LYS:CE	1:A:1132:LYS:NZ	1.79	1.42
1:A:56:PRO:O	1:A:57:ARG:CD	1.65	1.42
1:A:448:PRO:CB	1:A:448:PRO:CG	1.78	1.42
1:A:518:LYS:CE	1:A:518:LYS:CD	1.97	1.42
2:B:1210:MET:CE	2:B:1210:MET:SD	2.08	1.42
1:A:695:LYS:CD	1:A:695:LYS:CE	1.95	1.42
2:B:736:THR:CB	2:B:736:THR:CG2	1.99	1.41
3:C:122:SER:OG	3:C:122:SER:CB	1.69	1.41
4:E:106:GLN:CG	4:E:106:GLN:CD	1.91	1.41
2:B:315:LYS:NZ	2:B:315:LYS:CE	1.82	1.41
1:A:555:ASP:CB	1:A:555:ASP:CG	1.92	1.41
4:E:24:LYS:CE	4:E:24:LYS:NZ	1.84	1.41
1:A:934:LYS:CD	1:A:934:LYS:CE	1.99	1.40
4:E:121:MET:SD	4:E:121:MET:CG	2.10	1.40
1:A:941:LYS:CD	1:A:941:LYS:CG	1.99	1.40
2:B:775:LYS:CB	2:B:775:LYS:CG	1.99	1.40
3:C:154:LYS:CG	3:C:154:LYS:CB	1.99	1.40
1:A:122:MET:CE	1:A:122:MET:SD	2.08	1.40
1:A:941:LYS:CE	1:A:941:LYS:NZ	1.82	1.40
1:A:620:LYS:CE	1:A:620:LYS:CD	1.99	1.40
1:A:1358:SER:CB	1:A:1358:SER:OG	1.70	1.40
2:B:870:ILE:CB	2:B:870:ILE:CA	2.00	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:102:GLN:CB	3:C:102:GLN:CG	1.96	1.40
3:C:154:LYS:CD	3:C:154:LYS:CE	1.99	1.40
6:H:139:ASN:CB	6:H:139:ASN:CG	1.95	1.40
1:A:1235:LYS:CE	1:A:1235:LYS:NZ	1.83	1.39
2:B:962:LYS:CD	2:B:962:LYS:CG	2.00	1.39
4:E:50:MET:SD	4:E:50:MET:CG	2.09	1.39
1:A:70:CYS:SG	1:A:80:HIS:NE2	1.94	1.39
1:A:895:LYS:CD	1:A:895:LYS:CE	1.99	1.39
2:B:987:LYS:NZ	2:B:987:LYS:CE	1.85	1.39
1:A:1135:ARG:CG	1:A:1135:ARG:CD	2.00	1.38
4:E:73:PRO:CB	4:E:73:PRO:CG	1.75	1.38
5:F:129:LYS:CE	5:F:129:LYS:NZ	1.84	1.38
7:I:4:PHE:CE1	7:I:13:MET:HE2	1.57	1.38
2:B:305:VAL:CG1	2:B:305:VAL:CB	2.01	1.38
2:B:652:LYS:NZ	2:B:652:LYS:CE	1.87	1.37
4:E:93:MET:CE	4:E:93:MET:SD	2.12	1.37
1:A:368:LYS:CD	1:A:368:LYS:CG	2.01	1.36
4:E:53:PRO:CG	4:E:53:PRO:CB	1.89	1.36
1:A:676:MET:SD	1:A:676:MET:CG	2.14	1.35
2:B:789:MET:CE	2:B:789:MET:SD	2.14	1.35
1:A:382:PRO:CB	1:A:382:PRO:CG	1.81	1.35
1:A:369:SER:OG	9:K:2:ASN:ND2	1.60	1.35
1:A:437:MET:CE	1:A:437:MET:SD	2.15	1.34
6:H:19:ARG:CG	6:H:19:ARG:CD	2.03	1.34
7:I:1:MET:CE	7:I:1:MET:SD	2.15	1.34
1:A:1272:THR:CG2	1:A:1272:THR:CB	2.04	1.34
1:A:728:LYS:CG	1:A:728:LYS:CD	2.03	1.33
1:A:761:MET:CE	1:A:761:MET:SD	2.15	1.33
2:B:347:LYS:CG	2:B:347:LYS:CD	2.04	1.33
7:I:55:THR:CB	7:I:55:THR:CG2	2.06	1.33
1:A:705:LYS:CB	1:A:705:LYS:CG	2.06	1.32
1:A:186:LYS:CG	1:A:186:LYS:CD	2.06	1.32
1:A:1259:MET:CE	1:A:1259:MET:SD	2.18	1.32
1:A:1294:PRO:CB	1:A:1294:PRO:CG	1.93	1.31
3:C:260:LEU:CG	3:C:260:LEU:CD2	2.06	1.31
13:B:3008:CTP:C2'	14:B:3010:HOH:O	1.65	1.31
3:C:165:LYS:NZ	3:C:165:LYS:CE	1.92	1.30
2:B:705:MET:CE	2:B:705:MET:CG	2.08	1.29
1:A:1259:MET:SD	1:A:1259:MET:CG	2.21	1.28
2:B:231:PRO:CB	2:B:231:PRO:CG	2.12	1.28
2:B:313:MET:SD	2:B:313:MET:CE	1.18	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:705:MET:CE	2:B:705:MET:SD	1.18	1.27
1:A:156:ASP:O	1:A:158:PRO:HD3	1.28	1.25
1:A:708:MET:CE	1:A:708:MET:SD	2.24	1.25
1:A:1202:MET:CE	1:A:1202:MET:SD	2.24	1.25
2:B:999:MET:CE	2:B:999:MET:SD	1.16	1.25
2:B:313:MET:CE	2:B:313:MET:CG	2.16	1.24
1:A:752:LYS:CE	1:A:752:LYS:NZ	2.02	1.23
2:B:766:ARG:NH2	13:B:3008:CTP:H5'2	1.52	1.22
4:E:20:LYS:NZ	4:E:20:LYS:CE	2.00	1.22
7:I:16:PRO:O	7:I:17:ARG:HD3	1.39	1.22
13:B:3008:CTP:C3'	14:B:3010:HOH:O	1.74	1.22
1:A:1285:MET:SD	1:A:1285:MET:CE	2.29	1.21
2:B:999:MET:CE	2:B:999:MET:CG	2.19	1.21
1:A:41:MET:CE	1:A:41:MET:SD	2.29	1.20
1:A:1364:ASN:ND2	1:A:1366:ARG:HD2	1.57	1.20
1:A:728:LYS:CD	1:A:728:LYS:CE	2.19	1.18
1:A:752:LYS:HE2	2:B:1019:SER:OG	1.43	1.17
2:B:1097:HIS:CA	2:B:1097:HIS:ND1	2.05	1.17
5:F:103:MET:CE	5:F:103:MET:SD	2.32	1.17
4:E:50:MET:SD	4:E:50:MET:CE	2.32	1.16
3:C:125:MET:CE	3:C:125:MET:SD	2.33	1.16
6:H:138:GLU:O	6:H:139:ASN:C	1.87	1.16
1:A:56:PRO:O	1:A:57:ARG:HD2	1.24	1.15
2:B:1051:THR:HG22	2:B:1053:GLU:H	1.03	1.15
1:A:487:MET:CE	1:A:487:MET:SD	1.05	1.15
3:C:75:MET:CE	3:C:75:MET:SD	2.36	1.14
1:A:1242:VAL:HG11	1:A:1259:MET:HE3	1.26	1.12
2:B:313:MET:SD	2:B:313:MET:HE2	1.76	1.13
6:H:128:ASN:O	6:H:131:ASN:ND2	1.82	1.13
2:B:705:MET:SD	2:B:705:MET:HE3	1.76	1.12
2:B:313:MET:SD	2:B:313:MET:HE3	1.76	1.12
2:B:999:MET:SD	2:B:999:MET:HE3	1.74	1.12
2:B:269:ILE:HD13	2:B:317:CYS:SG	1.90	1.12
2:B:662:MET:CE	2:B:662:MET:SD	2.37	1.12
1:A:1176:LEU:CB	1:A:1176:LEU:HG	1.73	1.11
1:A:42:ASP:OD2	1:A:47:ARG:N	1.84	1.11
10:L:58:LYS:O	10:L:59:ALA:HB3	1.51	1.11
2:B:999:MET:SD	2:B:999:MET:HE1	1.74	1.10
2:B:705:MET:SD	2:B:705:MET:HE1	1.76	1.10
2:B:999:MET:SD	2:B:999:MET:HE2	1.74	1.10
2:B:885:MET:CE	2:B:885:MET:SD	2.40	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1233:ASP:O	1:A:1234:GLU:HB3	1.42	1.09
1:A:304:MET:CE	1:A:304:MET:SD	2.40	1.09
1:A:487:MET:CE	1:A:487:MET:CG	2.31	1.09
2:B:313:MET:SD	2:B:313:MET:HE1	1.76	1.09
6:H:103:LYS:HB3	6:H:105:GLU:OE1	1.51	1.08
7:I:4:PHE:HE1	7:I:13:MET:CE	1.65	1.08
2:B:705:MET:SD	2:B:705:MET:HE2	1.76	1.07
1:A:487:MET:SD	1:A:487:MET:HE1	1.65	1.07
2:B:552:MET:CG	2:B:552:MET:SD	2.41	1.07
1:A:487:MET:SD	1:A:487:MET:HE3	1.65	1.06
1:A:901:LEU:H	1:A:926:GLN:NE2	1.54	1.06
7:I:45:ARG:HG2	7:I:45:ARG:HH11	1.17	1.06
1:A:1151:GLU:CG	7:I:45:ARG:HD2	1.86	1.06
3:C:242:GLN:O	3:C:246:ARG:HB2	1.56	1.05
1:A:555:ASP:OD1	9:K:26:LYS:NZ	1.89	1.05
1:A:567:LYS:HE2	6:H:95:TYR:CE2	1.91	1.05
10:L:31:CYS:SG	10:L:34:CYS:SG	2.55	1.05
1:A:247:ARG:NH1	1:A:263:THR:HG23	1.73	1.04
3:C:265:MET:CE	3:C:265:MET:SD	2.46	1.04
4:E:24:LYS:NZ	4:E:24:LYS:CD	2.20	1.04
1:A:1161:THR:HG22	1:A:1163:ILE:H	1.21	1.03
2:B:364:ILE:HD13	2:B:585:VAL:HG13	1.32	1.03
1:A:1385:THR:O	1:A:1385:THR:HG22	1.56	1.03
1:A:487:MET:SD	1:A:487:MET:HE2	1.65	1.03
2:B:58:THR:O	2:B:62:ILE:HG12	1.60	1.02
2:B:114:PRO:HD3	2:B:124:TYR:CE1	1.94	1.02
2:B:270:LYS:NZ	2:B:270:LYS:CD	2.22	1.02
1:A:1133:LEU:CD2	1:A:1133:LEU:CB	2.37	1.02
1:A:1079:MET:HG2	1:A:1359:ASP:OD2	1.60	1.01
2:B:1077:THR:HG22	2:B:1079:LYS:H	1.26	1.01
5:F:77:ASP:O	5:F:78:GLN:HB2	1.58	1.00
1:A:903:ASN:C	1:A:903:ASN:HD22	1.65	1.00
1:A:1055:ARG:CG	1:A:1055:ARG:NE	2.24	1.00
2:B:424:LEU:HG	2:B:424:LEU:O	1.61	1.00
4:E:169:ARG:HD3	5:F:140:ASP:OD2	1.60	1.00
10:L:58:LYS:O	10:L:59:ALA:CB	2.08	1.00
1:A:56:PRO:O	1:A:57:ARG:HD3	1.58	0.99
6:H:55:LEU:HD22	6:H:144:ILE:HD12	1.43	0.99
2:B:792:MET:SD	2:B:792:MET:CE	2.49	0.99
1:A:110:CYS:SG	1:A:148:CYS:SG	2.60	0.99
1:A:566:ILE:HD13	6:H:96:VAL:HG12	1.45	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:25:ILE:CG2	2:B:658:ILE:HD11	1.93	0.98
2:B:169:ARG:HB2	2:B:454:THR:HG23	1.46	0.98
3:C:71:PRO:HB2	3:C:133:ILE:HD12	1.46	0.98
3:C:152:GLU:OE2	3:C:154:LYS:HD2	1.64	0.97
2:B:424:LEU:O	2:B:424:LEU:CG	2.13	0.97
9:K:1:MET:SD	9:K:1:MET:CE	2.53	0.97
7:I:4:PHE:CE1	7:I:13:MET:CE	2.45	0.97
2:B:660:LYS:CG	2:B:660:LYS:CE	2.41	0.97
1:A:379:VAL:CG2	1:A:379:VAL:CG1	2.43	0.96
1:A:579:SER:HA	1:A:582:ILE:HD13	1.47	0.96
2:B:643:ASP:O	2:B:644:GLU:HB2	1.62	0.96
8:J:2:ILE:CD1	8:J:57:ILE:HG21	1.95	0.96
1:A:380:VAL:HG13	1:A:385:ILE:HD13	1.44	0.96
6:H:106:GLU:O	6:H:107:VAL:O	1.82	0.96
6:H:123:MET:HE1	6:H:142:LEU:HD13	1.47	0.96
6:H:22:LYS:CG	6:H:22:LYS:CE	2.42	0.96
9:K:95:ILE:CG2	9:K:95:ILE:CG1	2.44	0.96
6:H:130:ARG:HD2	6:H:130:ARG:C	1.90	0.96
1:A:535:THR:HG21	1:A:617:VAL:H	1.31	0.96
1:A:1155:ASP:OD1	1:A:1162:VAL:HG23	1.63	0.96
2:B:1148:LYS:CD	2:B:1148:LYS:NZ	2.27	0.95
3:C:172:PRO:O	3:C:235:VAL:HG12	1.64	0.95
4:E:31:THR:OG1	4:E:34:GLU:HB2	1.66	0.95
1:A:752:LYS:HE2	2:B:1019:SER:CB	1.96	0.95
1:A:122:MET:HE1	1:A:138:ILE:HD13	1.49	0.95
1:A:1203:ASN:C	1:A:1203:ASN:HA	1.90	0.95
2:B:955:THR:HG21	10:L:55:ILE:HD13	1.49	0.95
1:A:567:LYS:CD	6:H:95:TYR:HA	1.96	0.94
2:B:1051:THR:HG22	2:B:1053:GLU:N	1.80	0.94
1:A:55:ASP:O	1:A:57:ARG:N	1.99	0.94
6:H:63:LEU:C	6:H:90:ALA:HB3	1.91	0.94
6:H:103:LYS:O	6:H:115:TYR:HD1	1.51	0.94
2:B:620:ARG:CG	2:B:620:ARG:NE	2.29	0.94
1:A:567:LYS:HG3	1:A:568:PRO:CD	1.97	0.94
1:A:55:ASP:O	1:A:55:ASP:OD1	1.84	0.94
1:A:752:LYS:CE	2:B:1019:SER:OG	2.15	0.94
1:A:187:LYS:HB2	1:A:194:ALA:HB3	1.48	0.94
3:C:54:ASN:OD1	3:C:56:THR:HB	1.66	0.94
2:B:916:THR:C	2:B:916:THR:HA	1.90	0.93
2:B:1220:ARG:O	2:B:1222:ARG:HD3	1.68	0.93
8:J:2:ILE:HD13	8:J:57:ILE:HG21	1.48	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:552:MET:SD	2:B:552:MET:CE	2.57	0.93
2:B:712:PRO:CG	2:B:712:PRO:N	2.32	0.93
2:B:1190:ASP:O	2:B:1191:ILE:HG12	1.65	0.93
2:B:542:MET:HG3	2:B:747:MET:CE	1.98	0.93
2:B:498:THR:CG2	2:B:537:LYS:HB2	1.99	0.93
7:I:45:ARG:CG	7:I:45:ARG:HH11	1.82	0.93
2:B:766:ARG:HH22	13:B:3008:CTP:H5'2	1.26	0.93
9:K:111:LEU:CD2	9:K:111:LEU:HG	1.99	0.92
10:L:34:CYS:HG	12:L:3005:ZN:ZN	0.65	0.92
3:C:86:CYS:CB	3:C:86:CYS:HA	1.99	0.92
1:A:567:LYS:HD3	6:H:95:TYR:CG	2.04	0.92
9:K:110:ASN:O	9:K:112:GLN:N	2.01	0.92
2:B:955:THR:HG22	10:L:54:ARG:O	1.69	0.92
2:B:1166:CYS:O	2:B:1168:LEU:N	2.01	0.92
6:H:89:LEU:O	6:H:91:ASP:N	2.02	0.92
2:B:98:THR:CB	2:B:98:THR:C	2.43	0.92
4:E:36:GLU:O	4:E:37:LEU:C	2.12	0.92
8:J:43:ARG:CG	8:J:43:ARG:NE	2.32	0.92
1:A:567:LYS:CE	6:H:95:TYR:CE1	2.53	0.92
10:L:40:LEU:CB	10:L:40:LEU:HG	1.97	0.92
7:I:16:PRO:O	7:I:17:ARG:CD	2.18	0.91
1:A:1176:LEU:CB	1:A:1176:LEU:HA	1.99	0.91
6:H:103:LYS:HG2	6:H:105:GLU:OE2	1.70	0.91
2:B:916:THR:N	2:B:935:ARG:O	2.03	0.91
2:B:25:ILE:CG2	2:B:25:ILE:CG1	2.48	0.91
1:A:1079:MET:SD	1:A:1359:ASP:OD2	2.29	0.91
2:B:424:LEU:HD23	2:B:424:LEU:C	1.96	0.91
3:C:99:LEU:HD12	3:C:99:LEU:N	1.86	0.91
10:L:26:THR:CG2	10:L:27:LEU:H	1.81	0.91
2:B:766:ARG:HH22	13:B:3008:CTP:C5'	1.83	0.91
1:A:156:ASP:O	1:A:158:PRO:CD	2.19	0.90
1:A:108:MET:H	1:A:171:GLN:HE22	1.15	0.90
3:C:163:ILE:CG2	3:C:163:ILE:HB	1.98	0.90
1:A:567:LYS:HD3	6:H:95:TYR:CA	2.01	0.90
1:A:567:LYS:CD	6:H:95:TYR:CG	2.55	0.90
1:A:1079:MET:CG	1:A:1359:ASP:OD2	2.18	0.90
6:H:123:MET:HE1	6:H:142:LEU:CD1	2.01	0.90
1:A:1161:THR:CG2	1:A:1163:ILE:H	1.84	0.90
4:E:79:TRP:HB2	4:E:105:PHE:CD1	2.06	0.90
2:B:639:ILE:CG2	2:B:639:ILE:CG1	2.49	0.89
2:B:1198:TYR:CB	2:B:1198:TYR:HA	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:148:CYS:HG	12:A:3006:ZN:ZN	0.62	0.89
3:C:95:CYS:HG	12:C:3002:ZN:ZN	0.71	0.89
2:B:766:ARG:NH2	13:B:3008:CTP:C5'	2.35	0.89
2:B:1221:SER:C	2:B:1221:SER:HA	1.96	0.89
6:H:6:PHE:CD2	6:H:7:ASP:N	2.40	0.89
3:C:116:LYS:CD	3:C:116:LYS:NZ	2.36	0.89
1:A:901:LEU:HB2	1:A:926:GLN:HE21	1.37	0.89
1:A:679:ILE:HD11	1:A:732:LEU:HB2	1.55	0.89
5:F:81:THR:CG2	5:F:136:ARG:HH11	1.85	0.89
1:A:1194:ARG:CB	1:A:1194:ARG:CD	2.51	0.89
2:B:217:ARG:CG	2:B:217:ARG:NE	2.36	0.89
6:H:106:GLU:O	6:H:107:VAL:C	2.16	0.89
6:H:63:LEU:H	6:H:63:LEU:HD12	1.35	0.88
2:B:895:ASP:CB	2:B:895:ASP:HA	2.03	0.88
1:A:567:LYS:CE	6:H:95:TYR:CZ	2.55	0.88
7:I:45:ARG:HG2	7:I:45:ARG:NH1	1.89	0.88
1:A:31:SER:HB3	1:A:83:HIS:HD2	1.39	0.88
6:H:93:TYR:HB3	6:H:144:ILE:O	1.74	0.88
10:L:34:CYS:CB	10:L:51:CYS:HB3	2.03	0.88
1:A:1385:THR:CG2	1:A:1385:THR:C	2.47	0.88
2:B:1002:THR:CG2	2:B:1002:THR:OG1	2.22	0.88
4:E:157:SER:CB	4:E:157:SER:C	2.47	0.87
1:A:555:ASP:OD1	9:K:26:LYS:CE	2.23	0.87
1:A:693:VAL:HG21	1:A:721:PHE:HE1	1.39	0.87
8:J:7:CYS:HG	8:J:45:CYS:HG	0.91	0.87
1:A:889:SER:CB	1:A:889:SER:C	2.47	0.87
1:A:567:LYS:HD3	6:H:95:TYR:HA	1.56	0.87
2:B:1166:CYS:HB3	2:B:1185:CYS:SG	2.15	0.87
1:A:1286:LYS:CB	1:A:1286:LYS:CD	2.52	0.87
1:A:145:LYS:HE3	1:A:149:GLU:CD	1.99	0.87
6:H:97:MET:HE3	6:H:118:PHE:CG	2.09	0.87
8:J:7:CYS:HG	12:J:3001:ZN:ZN	0.59	0.87
1:A:110:CYS:CB	1:A:110:CYS:C	2.47	0.86
2:B:101:MET:SD	2:B:101:MET:CE	2.63	0.86
2:B:498:THR:HG21	2:B:537:LYS:HB2	1.56	0.86
6:H:2:SER:C	6:H:2:SER:HA	1.98	0.86
1:A:1151:GLU:HG2	7:I:45:ARG:HD2	1.55	0.86
1:A:567:LYS:HB3	6:H:96:VAL:H	1.40	0.86
4:E:83:CYS:O	4:E:113:GLN:NE2	2.07	0.86
1:A:567:LYS:HD3	6:H:95:TYR:CD2	2.11	0.86
4:E:79:TRP:HB2	4:E:105:PHE:CE1	2.11	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:123:LYS:NZ	5:F:123:LYS:CD	2.39	0.86
7:I:42:LEU:CD1	7:I:42:LEU:CD2	2.54	0.86
1:A:187:LYS:HG3	1:A:194:ALA:CB	2.05	0.86
1:A:503:GLN:NE2	5:F:90:ARG:NH2	2.24	0.86
7:I:51:ASN:HB2	7:I:118:ARG:CZ	2.06	0.85
2:B:515:HIS:H	2:B:518:HIS:HD2	1.25	0.85
2:B:1097:HIS:CA	2:B:1097:HIS:CG	2.57	0.85
10:L:34:CYS:SG	10:L:36:SER:OG	2.34	0.85
2:B:294:ASP:H	7:I:12:ASN:HD22	1.18	0.85
1:A:567:LYS:HB3	6:H:96:VAL:N	1.91	0.85
1:A:1298:TYR:O	1:A:1299:VAL:HG23	1.77	0.85
2:B:593:PRO:HG2	2:B:617:ARG:NH2	1.92	0.85
1:A:752:LYS:CE	1:A:752:LYS:CG	2.53	0.85
1:A:351:THR:CG2	2:B:1103:ILE:HG13	2.07	0.85
2:B:212:LEU:CD2	2:B:212:LEU:CD1	2.54	0.85
2:B:502:ILE:CG2	2:B:502:ILE:HB	2.04	0.85
1:A:155:GLU:OE2	4:E:125:PRO:HB2	1.76	0.84
1:A:55:ASP:N	1:A:56:PRO:CD	2.40	0.84
1:A:104:GLU:C	1:A:104:GLU:CB	2.51	0.84
8:J:7:CYS:SG	8:J:45:CYS:SG	2.75	0.84
1:A:567:LYS:HG3	1:A:568:PRO:HD2	1.60	0.84
2:B:723:VAL:CB	2:B:723:VAL:HA	2.02	0.84
4:E:71:LYS:NZ	4:E:160:GLU:OE2	2.10	0.84
1:A:184:SER:HB2	1:A:199:LEU:HD23	1.60	0.84
1:A:567:LYS:CE	6:H:95:TYR:CE2	2.60	0.84
2:B:63:ILE:C	2:B:63:ILE:HA	2.03	0.84
2:B:169:ARG:HG3	2:B:454:THR:CG2	2.07	0.84
2:B:294:ASP:H	7:I:12:ASN:ND2	1.75	0.84
4:E:55:ARG:O	4:E:56:LYS:C	2.16	0.84
4:E:6:GLU:OE2	4:E:43:LYS:NZ	2.11	0.83
6:H:5:LEU:O	6:H:133:ASN:ND2	2.11	0.83
1:A:711:ARG:HE	7:I:95:THR:HG22	1.43	0.83
1:A:42:ASP:OD2	1:A:46:THR:C	2.21	0.83
2:B:615:MET:HG2	2:B:626:ILE:HD12	1.60	0.83
2:B:691:GLU:HG2	2:B:693:ILE:HD11	1.59	0.83
9:K:111:LEU:CD1	9:K:111:LEU:CB	2.57	0.83
10:L:51:CYS:SG	10:L:53:HIS:HB2	2.19	0.83
2:B:106:ASP:C	2:B:106:ASP:HA	2.02	0.83
1:A:503:GLN:NE2	5:F:90:ARG:HH21	1.76	0.83
1:A:571:LEU:CD2	1:A:571:LEU:CD1	2.56	0.83
2:B:90:ILE:N	2:B:90:ILE:HA	1.92	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:100:PRO:HD2	2:B:180:TYR:CE1	2.14	0.83
3:C:40:GLU:HA	3:C:163:ILE:HD12	1.60	0.83
6:H:138:GLU:O	6:H:140:ALA:N	2.11	0.83
7:I:34:TYR:CG	7:I:34:TYR:CA	2.61	0.83
1:A:247:ARG:HH11	1:A:263:THR:HG23	1.41	0.82
1:A:849:MET:HE2	1:A:1061:GLY:HA2	1.60	0.82
10:L:64:LEU:CD1	10:L:64:LEU:HG	2.06	0.82
3:C:245:VAL:CG1	3:C:245:VAL:CG2	2.57	0.82
9:K:24:ASP:OD1	9:K:74:ARG:NH1	2.13	0.82
10:L:34:CYS:HB3	10:L:51:CYS:CB	2.08	0.82
10:L:38:LEU:CD1	10:L:38:LEU:HG	2.06	0.82
1:A:711:ARG:CG	1:A:711:ARG:CA	2.58	0.82
1:A:1364:ASN:HD22	1:A:1366:ARG:H	1.25	0.82
1:A:69:THR:C	1:A:69:THR:HA	1.98	0.82
1:A:1118:VAL:HB	1:A:1327:ILE:HD12	1.60	0.82
2:B:680:THR:HG22	2:B:682:SER:H	1.42	0.82
1:A:73:GLY:O	1:A:75:ASN:N	2.12	0.82
2:B:130:VAL:H	2:B:167:ILE:HD11	1.44	0.82
2:B:431:TYR:CD2	2:B:431:TYR:O	2.32	0.82
3:C:162:GLY:HA3	3:C:170:TRP:CE2	2.14	0.82
2:B:114:PRO:HD3	2:B:124:TYR:HE1	1.41	0.82
2:B:561:TRP:O	2:B:590:HIS:HE1	1.62	0.82
6:H:89:LEU:C	6:H:91:ASP:H	1.86	0.82
2:B:884:ARG:O	2:B:936:ASP:HB3	1.80	0.82
9:K:18:LYS:O	9:K:19:LEU:HD23	1.80	0.82
9:K:53:ASP:OD2	9:K:81:TYR:OH	1.97	0.82
2:B:1163:CYS:HA	2:B:1191:ILE:HD13	1.62	0.81
13:B:3008:CTP:H3'	14:B:3010:HOH:O	1.57	0.81
1:A:472:LEU:O	1:A:475:THR:HB	1.81	0.81
1:A:1198:ASP:OD1	1:A:1200:ALA:HB3	1.80	0.81
2:B:169:ARG:HG3	2:B:454:THR:HG21	1.61	0.81
2:B:1198:TYR:CA	2:B:1198:TYR:CG	2.62	0.81
4:E:100:ILE:HG22	4:E:101:GLN:N	1.92	0.81
1:A:1409:LEU:CD1	1:A:1409:LEU:HG	2.05	0.81
2:B:820:GLY:HA3	2:B:1091:TYR:CZ	2.15	0.81
3:C:245:VAL:CG1	3:C:245:VAL:HB	2.05	0.81
2:B:261:ARG:O	2:B:264:SER:N	2.12	0.81
2:B:1051:THR:CG2	2:B:1053:GLU:H	1.91	0.81
1:A:952:ALA:CB	1:A:952:ALA:N	2.44	0.81
6:H:57:VAL:HG22	6:H:144:ILE:HD11	1.63	0.81
2:B:104:GLU:OE1	10:L:54:ARG:NE	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:268:THR:C	2:B:269:ILE:HD12	2.06	0.81
1:A:636:GLU:OE2	1:A:962:ARG:CD	2.28	0.81
1:A:1445:ILE:CG2	1:A:1445:ILE:CA	2.59	0.81
2:B:643:ASP:O	2:B:644:GLU:CB	2.29	0.80
10:L:47:ARG:HG2	10:L:48:CYS:H	1.46	0.80
1:A:64:ASN:OD1	1:A:64:ASN:O	1.98	0.80
2:B:813:LYS:CG	2:B:813:LYS:CE	2.59	0.80
2:B:754:SER:O	2:B:806:THR:HG21	1.81	0.80
1:A:1350:LYS:CD	1:A:1350:LYS:CB	2.59	0.80
2:B:712:PRO:CG	2:B:712:PRO:CA	2.59	0.80
3:C:241:ASP:HB3	9:K:109:TRP:CE2	2.16	0.80
1:A:1162:VAL:CG1	1:A:1162:VAL:CA	2.59	0.80
1:A:901:LEU:H	1:A:926:GLN:HE22	1.26	0.80
4:E:165:LEU:CD1	4:E:165:LEU:CB	2.60	0.80
2:B:1161:HIS:C	2:B:1162:ILE:HD12	2.06	0.80
2:B:424:LEU:O	2:B:424:LEU:CD2	2.30	0.79
4:E:98:ILE:CB	4:E:98:ILE:HA	2.06	0.79
1:A:748:MET:SD	1:A:748:MET:CB	2.70	0.79
13:B:3008:CTP:H2'	14:B:3010:HOH:O	1.47	0.79
4:E:147:HIS:HD2	4:E:149:LEU:H	1.25	0.79
1:A:1161:THR:HG22	1:A:1163:ILE:N	1.97	0.79
1:A:1385:THR:CG2	1:A:1385:THR:O	2.31	0.79
1:A:23:SER:O	1:A:27:VAL:HG23	1.83	0.79
2:B:417:PHE:C	2:B:417:PHE:CD2	2.60	0.79
1:A:636:GLU:OE2	1:A:962:ARG:HD2	1.83	0.79
1:A:1120:LEU:HD21	1:A:1131:ALA:HB2	1.64	0.79
1:A:1348:LEU:HG	1:A:1372:VAL:HG22	1.64	0.79
6:H:105:GLU:H	6:H:105:GLU:CD	1.90	0.79
2:B:242:SER:HG	2:B:363:HIS:HD1	1.23	0.78
2:B:1185:CYS:CB	2:B:1185:CYS:HA	2.10	0.78
3:C:267:GLN:C	3:C:267:GLN:HA	2.05	0.78
2:B:952:VAL:HG22	2:B:966:VAL:HG22	1.65	0.78
5:F:105:ALA:HB1	5:F:106:PRO:HD2	1.65	0.78
1:A:567:LYS:CG	1:A:568:PRO:CD	2.61	0.78
2:B:1065:GLN:HE22	2:B:1067:ARG:HB2	1.47	0.78
1:A:1148:ILE:HD11	1:A:1198:ASP:HB2	1.65	0.78
1:A:587:HIS:CE1	1:A:969:GLN:HG2	2.19	0.78
1:A:1003:LYS:CG	1:A:1003:LYS:CA	2.61	0.78
2:B:1128:LEU:HG	2:B:1128:LEU:O	1.84	0.78
1:A:858:ASN:C	1:A:858:ASN:HD22	1.92	0.78
1:A:1072:ILE:HD11	1:A:1368:MET:HG3	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:357:GLN:NE2	2:B:368:GLU:HG2	1.99	0.78
9:K:82:ASP:OD1	9:K:83:PRO:HG2	1.82	0.78
2:B:243:ALA:HB2	2:B:251:ILE:HD13	1.64	0.78
3:C:167:HIS:HD2	3:C:169:LYS:H	1.30	0.78
6:H:103:LYS:CB	6:H:105:GLU:OE1	2.30	0.78
2:B:227:LYS:CD	2:B:227:LYS:CB	2.63	0.77
6:H:32:THR:CA	6:H:32:THR:HB	2.10	0.77
1:A:61:ILE:CB	1:A:61:ILE:HA	2.10	0.77
1:A:1282:VAL:CG2	1:A:1282:VAL:CA	2.62	0.77
4:E:37:LEU:CD1	4:E:37:LEU:HG	2.06	0.77
7:I:13:MET:CE	7:I:13:MET:CG	2.61	0.77
1:A:1233:ASP:O	1:A:1234:GLU:CB	2.26	0.77
2:B:515:HIS:HD2	2:B:517:THR:OG1	1.67	0.77
1:A:243:PRO:HB2	1:A:245:PRO:HD2	1.66	0.77
2:B:509:ALA:CB	2:B:509:ALA:N	2.48	0.77
3:C:70:ILE:CG2	3:C:70:ILE:CA	2.63	0.77
2:B:136:THR:CB	2:B:136:THR:HA	2.10	0.77
1:A:31:SER:CB	1:A:83:HIS:HD2	1.97	0.77
1:A:1265:ASN:O	1:A:1266:THR:C	2.23	0.77
3:C:146:LYS:CB	3:C:146:LYS:CD	2.62	0.77
1:A:247:ARG:NH1	1:A:263:THR:CG2	2.47	0.77
1:A:351:THR:CG2	2:B:1103:ILE:CG1	2.63	0.77
2:B:542:MET:HG3	2:B:747:MET:HE3	1.66	0.77
2:B:1222:ARG:HG2	2:B:1222:ARG:NH1	1.99	0.77
1:A:54:ASN:C	1:A:56:PRO:HD2	2.10	0.77
1:A:555:ASP:OD1	9:K:26:LYS:HE3	1.83	0.77
3:C:35:ARG:CG	3:C:35:ARG:NE	2.48	0.77
1:A:32:VAL:HG23	1:A:33:ALA:H	1.49	0.76
2:B:841:MET:SD	2:B:846:ILE:HD11	2.25	0.76
3:C:86:CYS:SG	3:C:95:CYS:HB3	2.25	0.76
2:B:617:ARG:CD	2:B:617:ARG:CB	2.60	0.76
3:C:239:PRO:O	3:C:242:GLN:HB2	1.85	0.76
1:A:55:ASP:N	1:A:56:PRO:HD2	2.01	0.76
1:A:806:ARG:CB	1:A:806:ARG:CD	2.63	0.76
2:B:916:THR:HB	2:B:935:ARG:HB2	1.67	0.76
13:B:3008:CTP:C1'	13:B:3008:CTP:C6	2.67	0.76
3:C:147:LEU:CB	3:C:147:LEU:HG	2.09	0.76
1:A:752:LYS:HZ3	2:B:1019:SER:N	1.82	0.76
10:L:27:LEU:CB	10:L:27:LEU:HG	2.07	0.76
2:B:1020:ARG:C	2:B:1020:ARG:HA	2.07	0.76
1:A:1151:GLU:OE2	7:I:45:ARG:HD3	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:965:GLN:CD	1:A:965:GLN:CB	2.58	0.76
10:L:31:CYS:SG	10:L:51:CYS:SG	2.83	0.76
1:A:567:LYS:CE	6:H:95:TYR:CD1	2.69	0.76
1:A:1363:VAL:CG1	1:A:1363:VAL:CA	2.62	0.76
5:F:114:GLU:HB2	5:F:120:ILE:HD13	1.65	0.76
2:B:882:THR:C	2:B:882:THR:HA	2.09	0.76
1:A:670:ILE:CG2	1:A:670:ILE:CA	2.64	0.76
1:A:752:LYS:HZ3	2:B:1019:SER:H	1.33	0.76
9:K:78:THR:HG22	9:K:79:GLU:H	1.50	0.76
1:A:427:GLN:HB2	1:A:430:TRP:CE2	2.21	0.75
10:L:38:LEU:O	10:L:39:SER:HB2	1.84	0.75
1:A:42:ASP:OD1	1:A:45:GLN:HA	1.87	0.75
1:A:867:ILE:CG2	1:A:867:ILE:CG1	2.63	0.75
9:K:23:PRO:HD2	9:K:23:PRO:O	1.86	0.75
2:B:839:MET:HE3	2:B:1010:LEU:HD11	1.68	0.75
3:C:55:THR:HB	3:C:152:GLU:H	1.52	0.75
6:H:77:ARG:O	6:H:78:SER:O	2.04	0.75
1:A:518:LYS:CD	1:A:518:LYS:NZ	2.50	0.75
7:I:45:ARG:CG	7:I:45:ARG:NH1	2.48	0.75
9:K:65:HIS:HD2	9:K:67:PHE:H	1.31	0.75
1:A:903:ASN:C	1:A:903:ASN:ND2	2.35	0.75
1:A:1281:ARG:CD	1:A:1281:ARG:CB	2.64	0.75
2:B:1222:ARG:HH11	2:B:1222:ARG:CG	2.00	0.75
2:B:639:ILE:CG2	2:B:639:ILE:CA	2.65	0.75
2:B:915:THR:CA	2:B:915:THR:HB	2.09	0.75
2:B:961:LEU:CB	2:B:961:LEU:HG	2.12	0.75
2:B:1163:CYS:HB2	2:B:1182:CYS:SG	2.26	0.75
4:E:169:ARG:CD	5:F:140:ASP:OD2	2.35	0.75
7:I:4:PHE:HE1	7:I:13:MET:HE2	0.71	0.75
4:E:12:LEU:HD21	4:E:58:MET:SD	2.27	0.75
6:H:63:LEU:H	6:H:63:LEU:CD1	1.99	0.75
4:E:131:THR:CA	4:E:131:THR:HB	2.11	0.75
5:F:77:ASP:O	5:F:78:GLN:CB	2.22	0.75
1:A:1364:ASN:ND2	1:A:1366:ARG:H	1.83	0.74
2:B:134:LYS:O	2:B:135:ARG:HG3	1.87	0.74
1:A:582:ILE:H	1:A:582:ILE:HD12	1.52	0.74
1:A:886:ILE:HD12	1:A:943:LEU:HB3	1.69	0.74
2:B:705:MET:CE	2:B:705:MET:HG3	2.12	0.74
6:H:32:THR:CB	6:H:32:THR:HA	2.10	0.74
6:H:91:ASP:C	6:H:91:ASP:HA	2.08	0.74
1:A:567:LYS:HE2	6:H:95:TYR:CZ	2.19	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:676:MET:SD	1:A:676:MET:CB	2.75	0.74
2:B:1154:ALA:CB	2:B:1154:ALA:HA	2.11	0.74
2:B:90:ILE:HD12	2:B:432:MET:SD	2.27	0.74
2:B:592:ASN:O	2:B:593:PRO:C	2.24	0.74
2:B:1166:CYS:O	2:B:1167:GLY:C	2.23	0.74
1:A:426:LEU:CD1	1:A:426:LEU:HG	2.12	0.74
1:A:567:LYS:CG	1:A:568:PRO:HD3	2.17	0.74
6:H:138:GLU:HG2	6:H:139:ASN:N	2.01	0.74
2:B:477:ALA:CB	2:B:477:ALA:HA	2.14	0.74
1:A:202:LEU:CD2	1:A:202:LEU:CD1	2.66	0.74
3:C:41:ILE:C	3:C:163:ILE:HD11	2.12	0.74
1:A:50:ILE:HG22	1:A:52:GLY:H	1.52	0.74
1:A:752:LYS:HE2	2:B:1019:SER:HG	1.50	0.74
2:B:25:ILE:HG21	2:B:658:ILE:HD11	1.69	0.74
2:B:420:LEU:CD1	2:B:420:LEU:HG	2.13	0.74
6:H:107:VAL:CA	6:H:107:VAL:CG2	2.64	0.74
1:A:120:GLU:HG2	1:A:123:ARG:HH22	1.53	0.73
9:K:102:LYS:O	9:K:106:GLU:HB2	1.89	0.73
1:A:431:LYS:CG	1:A:431:LYS:CE	2.64	0.73
1:A:596:THR:HG22	1:A:597:LEU:H	1.52	0.73
1:A:1176:LEU:CD2	1:A:1176:LEU:CD1	2.66	0.73
2:B:243:ALA:C	2:B:244:LEU:HG	2.13	0.73
2:B:408:LEU:CD1	2:B:408:LEU:CB	2.67	0.73
6:H:89:LEU:C	6:H:91:ASP:N	2.44	0.73
10:L:26:THR:HG22	10:L:27:LEU:H	1.52	0.73
1:A:389:THR:CG2	1:A:389:THR:OG1	2.37	0.73
2:B:890:TYR:OH	2:B:936:ASP:OD1	2.06	0.73
3:C:152:GLU:OE2	3:C:154:LYS:CD	2.36	0.73
4:E:12:LEU:CD1	4:E:12:LEU:CD2	2.66	0.73
1:A:187:LYS:CB	1:A:194:ALA:HB3	2.18	0.73
1:A:567:LYS:CB	6:H:96:VAL:H	2.02	0.73
2:B:130:VAL:HG22	2:B:167:ILE:HD11	1.70	0.73
9:K:35:PHE:HE1	9:K:73:LEU:HD12	1.52	0.73
4:E:91:LYS:CB	4:E:91:LYS:CD	2.67	0.73
8:J:45:CYS:HG	12:J:3001:ZN:ZN	0.40	0.73
1:A:503:GLN:HE21	5:F:90:ARG:HH21	1.35	0.73
1:A:871:ASP:HB3	4:E:204:THR:HG23	1.71	0.73
1:A:1259:MET:SD	1:A:1259:MET:CB	2.76	0.73
4:E:20:LYS:CB	4:E:20:LYS:CD	2.66	0.73
4:E:98:ILE:CA	4:E:98:ILE:HB	2.15	0.73
1:A:279:LEU:CD2	1:A:279:LEU:CD1	2.64	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1133:LEU:CD2	1:A:1133:LEU:HB3	2.18	0.72
1:A:1242:VAL:CG1	1:A:1259:MET:HE3	2.15	0.72
3:C:19:ASP:C	3:C:19:ASP:OD1	2.30	0.72
1:A:523:ILE:HB	1:A:622:VAL:HG13	1.70	0.72
2:B:167:ILE:CG2	2:B:167:ILE:CG1	2.66	0.72
2:B:624:LEU:HD11	2:B:626:ILE:HD11	1.71	0.72
6:H:103:LYS:O	6:H:115:TYR:CD1	2.40	0.72
9:K:94:ILE:CA	9:K:94:ILE:CG2	2.64	0.72
2:B:137:TYR:CB	2:B:137:TYR:HA	2.13	0.72
6:H:47:PHE:CZ	6:H:146:ARG:HD2	2.25	0.72
7:I:3:THR:CG2	7:I:3:THR:CA	2.67	0.72
2:B:1002:THR:CG2	2:B:1002:THR:CA	2.65	0.72
4:E:212:ARG:CG	4:E:212:ARG:NE	2.52	0.72
8:J:30:LEU:CD2	8:J:30:LEU:CD1	2.64	0.72
4:E:31:THR:CA	4:E:31:THR:HB	2.13	0.72
6:H:17:PRO:HB3	6:H:24:CYS:SG	2.29	0.72
6:H:104:PHE:C	6:H:104:PHE:HA	2.11	0.72
1:A:511:ILE:HD13	1:A:521:MET:SD	2.29	0.72
1:A:596:THR:HG22	1:A:597:LEU:HD12	1.71	0.72
1:A:1138:ILE:HD11	1:A:1319:VAL:HG21	1.71	0.72
1:A:1151:GLU:OE2	7:I:45:ARG:CD	2.38	0.72
2:B:787:VAL:CG1	2:B:787:VAL:C	2.61	0.72
2:B:1097:HIS:HA	2:B:1097:HIS:CG	2.19	0.72
2:B:26:THR:O	2:B:27:ALA:C	2.29	0.72
4:E:29:PHE:O	4:E:30:ILE:HD13	1.89	0.72
10:L:27:LEU:CD2	10:L:27:LEU:HG	2.15	0.72
2:B:424:LEU:O	2:B:424:LEU:HD23	1.89	0.72
4:E:79:TRP:CG	4:E:79:TRP:CA	2.73	0.72
1:A:1319:VAL:CG1	1:A:1319:VAL:CG2	2.65	0.72
2:B:556:THR:CG2	2:B:556:THR:CA	2.67	0.72
1:A:741:ASN:HD22	1:A:741:ASN:C	1.96	0.72
2:B:293:PRO:O	2:B:294:ASP:C	2.31	0.72
9:K:94:ILE:CB	9:K:94:ILE:HA	2.13	0.72
1:A:605:MET:HE3	1:A:607:ILE:HG13	1.71	0.71
2:B:118:ARG:HH22	2:B:194:GLU:CD	1.98	0.71
2:B:643:ASP:HB3	2:B:644:GLU:C	2.14	0.71
1:A:595:THR:HG22	1:A:596:THR:N	2.04	0.71
2:B:701:ILE:HD13	2:B:703:ILE:HG13	1.72	0.71
2:B:435:THR:HG23	2:B:437:GLU:HB2	1.70	0.71
2:B:933:SER:CA	2:B:934:LYS:N	2.53	0.71
6:H:103:LYS:CG	6:H:105:GLU:OE2	2.38	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:415:LEU:CD1	1:A:415:LEU:CB	2.68	0.71
1:A:741:ASN:C	1:A:741:ASN:ND2	2.48	0.71
2:B:238:ALA:CB	2:B:238:ALA:N	2.52	0.71
1:A:567:LYS:CE	6:H:95:TYR:CD2	2.74	0.71
7:I:32:CYS:HB2	7:I:34:TYR:H	1.54	0.71
9:K:72:LYS:CE	9:K:72:LYS:CG	2.66	0.71
1:A:1222:ASN:CB	1:A:1222:ASN:HA	2.14	0.71
2:B:29:ASP:HB3	2:B:658:ILE:HD13	1.72	0.71
13:B:3008:CTP:C1'	14:B:3010:HOH:O	2.18	0.71
7:I:98:VAL:HG22	7:I:99:LEU:N	2.04	0.71
1:A:266:LEU:HA	1:A:269:ILE:HD12	1.71	0.71
1:A:369:SER:CB	9:K:2:ASN:ND2	2.52	0.71
1:A:1385:THR:CG2	1:A:1385:THR:CA	2.68	0.71
2:B:99:LYS:NZ	2:B:183:GLU:OE1	2.24	0.71
4:E:96:PHE:CZ	4:E:100:ILE:HD11	2.25	0.71
1:A:147:VAL:CG1	1:A:147:VAL:CG2	2.69	0.71
1:A:385:ILE:HD11	1:A:426:LEU:HB2	1.72	0.71
2:B:431:TYR:O	2:B:431:TYR:HD2	1.73	0.71
4:E:36:GLU:O	4:E:38:PRO:N	2.23	0.71
1:A:720:ARG:CG	1:A:720:ARG:CA	2.69	0.70
2:B:237:VAL:HG12	2:B:238:ALA:N	2.04	0.70
2:B:1221:SER:OG	5:F:141:GLY:HA3	1.91	0.70
3:C:163:ILE:CG2	3:C:163:ILE:CG1	2.65	0.70
5:F:101:ILE:HD12	5:F:107:VAL:HG22	1.73	0.70
6:H:139:ASN:CB	6:H:139:ASN:HA	2.14	0.70
2:B:70:ILE:CA	2:B:70:ILE:HB	2.17	0.70
2:B:251:ILE:O	2:B:251:ILE:HG22	1.92	0.70
6:H:107:VAL:CA	6:H:107:VAL:HB	2.15	0.70
1:A:356:ASP:OD2	1:A:469:ARG:HD3	1.90	0.70
1:A:1072:ILE:HD13	1:A:1363:VAL:HG11	1.73	0.70
1:A:237:THR:CG2	1:A:237:THR:HB	2.11	0.70
2:B:663:ALA:O	2:B:667:GLN:HG3	1.92	0.70
2:B:1077:THR:HG22	2:B:1079:LYS:N	2.05	0.70
1:A:567:LYS:HE2	6:H:95:TYR:CD2	2.27	0.70
2:B:98:THR:CB	2:B:98:THR:N	2.54	0.70
2:B:775:LYS:CB	2:B:775:LYS:CD	2.70	0.70
2:B:955:THR:HG23	10:L:55:ILE:HA	1.73	0.70
6:H:56:THR:CB	6:H:56:THR:N	2.50	0.70
1:A:107:CYS:SG	1:A:148:CYS:SG	2.90	0.70
3:C:162:GLY:HA3	3:C:170:TRP:CD2	2.26	0.70
2:B:498:THR:HG22	2:B:537:LYS:HB2	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1162:ILE:CD1	2:B:1194:ILE:HG12	2.22	0.70
6:H:6:PHE:CG	6:H:7:ASP:N	2.58	0.70
8:J:42:LYS:HG3	8:J:43:ARG:N	2.07	0.70
10:L:48:CYS:C	10:L:48:CYS:HA	2.11	0.70
1:A:380:VAL:CG1	1:A:385:ILE:HD13	2.21	0.69
1:A:1004:ASN:CG	4:E:167:ARG:HG3	2.16	0.69
1:A:1364:ASN:HD22	1:A:1366:ARG:HD2	1.54	0.69
2:B:1077:THR:CG2	2:B:1079:LYS:H	2.04	0.69
5:F:75:PRO:O	5:F:77:ASP:O	2.10	0.69
1:A:295:LEU:CD2	1:A:295:LEU:CB	2.68	0.69
2:B:705:MET:CG	2:B:705:MET:HE2	2.06	0.69
2:B:724:ASP:O	2:B:726:ALA:N	2.25	0.69
6:H:113:ALA:HA	6:H:125:LEU:O	1.92	0.69
1:A:837:ILE:HD11	1:A:1102:LYS:HG2	1.73	0.69
1:A:1225:PHE:CB	1:A:1225:PHE:HA	2.15	0.69
2:B:1163:CYS:SG	2:B:1165:ILE:HG12	2.33	0.69
3:C:120:ILE:H	3:C:120:ILE:HD12	1.56	0.69
1:A:703:THR:CG2	1:A:703:THR:CA	2.69	0.69
2:B:757:PRO:HD2	2:B:984:HIS:HE1	1.58	0.69
7:I:46:HIS:CA	7:I:46:HIS:CG	2.72	0.69
1:A:849:MET:CE	1:A:1061:GLY:HA2	2.23	0.69
1:A:1138:ILE:HD12	1:A:1316:VAL:HG22	1.75	0.69
2:B:357:GLN:HE21	2:B:368:GLU:HG2	1.56	0.69
2:B:550:ASP:OD1	2:B:551:PRO:HD2	1.93	0.69
2:B:877:PRO:O	2:B:878:GLN:HG2	1.92	0.69
2:B:487:THR:HG22	2:B:490:SER:H	1.57	0.69
2:B:1166:CYS:CB	2:B:1185:CYS:SG	2.78	0.69
3:C:25:VAL:HG11	3:C:29:MET:HG2	1.73	0.69
8:J:51:LEU:HG	8:J:51:LEU:O	1.91	0.69
1:A:709:THR:HG22	1:A:712:GLU:H	1.57	0.69
2:B:986:GLN:CD	2:B:1020:ARG:HH21	2.01	0.69
4:E:31:THR:CB	4:E:31:THR:C	2.65	0.69
6:H:97:MET:HE3	6:H:118:PHE:CD1	2.28	0.69
2:B:246:LYS:C	2:B:246:LYS:HA	2.11	0.69
2:B:955:THR:CG2	10:L:55:ILE:HD13	2.20	0.69
2:B:1222:ARG:HH11	2:B:1222:ARG:CB	2.06	0.69
1:A:46:THR:CA	1:A:46:THR:HB	2.13	0.69
1:A:567:LYS:CG	6:H:96:VAL:H	2.06	0.69
2:B:128:LEU:O	2:B:167:ILE:HD12	1.92	0.69
2:B:655:LYS:CD	2:B:655:LYS:CB	2.69	0.69
2:B:879:ARG:NH2	2:B:885:MET:HE2	2.09	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:6:PHE:CD2	6:H:6:PHE:C	2.71	0.69
8:J:7:CYS:CB	8:J:10:CYS:HG	2.06	0.69
1:A:636:GLU:OE2	1:A:962:ARG:HD3	1.93	0.68
2:B:787:VAL:CG1	2:B:787:VAL:CA	2.69	0.68
1:A:351:THR:HG23	2:B:1103:ILE:CG1	2.23	0.68
1:A:908:LEU:O	1:A:909:ASP:C	2.35	0.68
3:C:124:LEU:N	3:C:124:LEU:HD23	2.09	0.68
1:A:144:THR:CA	1:A:144:THR:HB	2.12	0.68
3:C:33:LEU:HG	3:C:37:MET:HE2	1.74	0.68
5:F:97:ARG:NH2	5:F:101:ILE:HD11	2.09	0.68
1:A:4:GLN:CG	1:A:4:GLN:N	2.56	0.68
1:A:72:GLU:OE2	2:B:1175:LEU:HD11	1.92	0.68
2:B:283:VAL:HG22	2:B:297:ILE:HD13	1.76	0.68
2:B:1025:HIS:HE1	2:B:1090:THR:HG21	1.56	0.68
2:B:1222:ARG:HH11	2:B:1222:ARG:HB2	1.58	0.68
7:I:34:TYR:CB	7:I:34:TYR:CD2	2.62	0.68
2:B:225:VAL:O	2:B:226:PHE:CD2	2.46	0.68
2:B:1190:ASP:O	2:B:1191:ILE:CG1	2.42	0.68
1:A:715:GLU:OE1	1:A:774:ARG:HD3	1.92	0.68
2:B:883:LEU:CB	2:B:883:LEU:HG	2.11	0.68
3:C:169:LYS:NZ	10:L:69:ALA:O	2.27	0.68
3:C:15:LYS:O	3:C:240:VAL:CG2	2.41	0.68
3:C:50:GLU:HB3	10:L:64:LEU:HD13	1.75	0.68
1:A:567:LYS:CB	6:H:95:TYR:HA	2.24	0.68
1:A:1259:MET:SD	1:A:1259:MET:HB2	2.33	0.68
1:A:1364:ASN:HD21	1:A:1366:ARG:HD2	1.53	0.68
1:A:55:ASP:C	1:A:57:ARG:H	1.99	0.67
2:B:998:ASP:OD1	3:C:35:ARG:NH2	2.27	0.67
3:C:33:LEU:HD13	3:C:248:ILE:HD13	1.75	0.67
1:A:385:ILE:HD11	1:A:426:LEU:CB	2.23	0.67
1:A:503:GLN:HE21	5:F:90:ARG:NH2	1.90	0.67
2:B:118:ARG:HH22	2:B:194:GLU:CG	2.06	0.67
3:C:18:VAL:HG23	3:C:240:VAL:HG11	1.75	0.67
8:J:10:CYS:SG	8:J:45:CYS:SG	2.92	0.67
10:L:27:LEU:CG	10:L:27:LEU:HB3	2.15	0.67
1:A:469:ARG:CB	1:A:469:ARG:CD	2.70	0.67
2:B:937:ALA:CB	2:B:937:ALA:C	2.65	0.67
1:A:107:CYS:SG	1:A:167:CYS:SG	2.93	0.67
1:A:679:ILE:HD12	1:A:729:ALA:HA	1.77	0.67
2:B:654:ARG:CB	2:B:654:ARG:CD	2.69	0.67
2:B:1002:THR:CG2	2:B:1006:ILE:HB	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:96:VAL:HG22	6:H:143:LEU:HD23	1.75	0.67
6:H:111:LEU:CD1	6:H:111:LEU:CD2	2.71	0.67
6:H:123:MET:SD	6:H:123:MET:CB	2.82	0.67
1:A:744:LYS:HD3	1:A:748:MET:SD	2.35	0.67
1:A:1224:LEU:HG	1:A:1225:PHE:N	2.09	0.67
2:B:549:THR:HG22	2:B:628:THR:HB	1.77	0.67
2:B:879:ARG:NH2	2:B:885:MET:CE	2.57	0.67
6:H:135:LEU:HD13	6:H:139:ASN:O	1.95	0.67
1:A:289:ILE:CA	1:A:289:ILE:CG1	2.71	0.67
3:C:205:LYS:CG	3:C:205:LYS:CA	2.71	0.67
8:J:2:ILE:HD11	8:J:57:ILE:HG21	1.76	0.67
1:A:531:ILE:HD11	1:A:578:LEU:CD2	2.25	0.67
2:B:68:THR:HG23	2:B:91:SER:HB3	1.77	0.67
9:K:35:PHE:CE1	9:K:73:LEU:HD12	2.29	0.67
1:A:347:PHE:H	2:B:1107:ALA:HA	1.60	0.67
1:A:1072:ILE:CD1	1:A:1363:VAL:HG11	2.25	0.67
2:B:864:LYS:O	2:B:961:LEU:CD2	2.43	0.67
1:A:282:ASN:C	1:A:283:GLY:O	2.38	0.67
1:A:857:ARG:HA	1:A:864:ILE:HD13	1.76	0.67
3:C:252:GLN:HE22	9:K:99:GLY:HA2	1.59	0.67
4:E:98:ILE:O	4:E:101:GLN:HB3	1.94	0.67
9:K:113:THR:CG2	9:K:113:THR:CA	2.69	0.67
1:A:426:LEU:CD1	1:A:426:LEU:CD2	2.73	0.67
2:B:217:ARG:HD3	2:B:407:ASP:OD2	1.94	0.66
2:B:1020:ARG:C	2:B:1020:ARG:CB	2.65	0.66
10:L:31:CYS:HG	10:L:34:CYS:HG	1.26	0.66
1:A:123:ARG:CG	1:A:123:ARG:CA	2.73	0.66
1:A:387:ARG:O	1:A:388:LEU:C	2.37	0.66
3:C:178:PHE:C	3:C:178:PHE:CD2	2.72	0.66
6:H:9:ILE:CA	6:H:9:ILE:HB	2.16	0.66
1:A:834:THR:HG21	1:A:1077:THR:CA	2.25	0.66
2:B:795:ILE:HD13	2:B:856:PHE:HE1	1.59	0.66
6:H:81:PRO:HB2	6:H:82:PRO:CD	2.25	0.66
2:B:120:ARG:HG2	10:L:55:ILE:HD11	1.75	0.66
2:B:243:ALA:CB	2:B:243:ALA:C	2.69	0.66
2:B:806:THR:HG23	2:B:808:ALA:H	1.61	0.66
2:B:1222:ARG:NH1	2:B:1222:ARG:CG	2.56	0.66
4:E:50:MET:C	4:E:50:MET:HG3	2.19	0.66
9:K:12:LEU:CD1	9:K:12:LEU:CD2	2.72	0.66
10:L:38:LEU:HD13	10:L:48:CYS:HA	1.77	0.66
1:A:119:ASN:O	1:A:120:GLU:HB2	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:587:HIS:HD2	1:A:966:ASN:OD1	1.78	0.66
8:J:2:ILE:HD13	8:J:57:ILE:CG2	2.24	0.66
2:B:417:PHE:CD2	2:B:417:PHE:O	2.48	0.66
2:B:25:ILE:HD11	2:B:651:LEU:HD12	1.77	0.66
2:B:705:MET:CG	2:B:705:MET:HE3	2.06	0.66
7:I:13:MET:CE	7:I:13:MET:HG3	2.24	0.66
1:A:379:VAL:CG2	1:A:379:VAL:CA	2.74	0.66
3:C:86:CYS:SG	3:C:95:CYS:CB	2.83	0.66
6:H:25:ARG:NH2	6:H:41:ASP:OD2	2.29	0.66
1:A:11:LEU:HD11	2:B:1195:HIS:CD2	2.31	0.66
1:A:144:THR:CB	1:A:144:THR:C	2.68	0.66
1:A:1432:GLN:CG	1:A:1432:GLN:CA	2.71	0.66
2:B:451:LYS:HA	2:B:454:THR:HB	1.77	0.66
1:A:666:ILE:HG13	2:B:1027:ILE:HD13	1.75	0.66
2:B:864:LYS:O	2:B:961:LEU:HD23	1.96	0.66
1:A:14:VAL:H	1:A:1432:GLN:HE22	1.44	0.65
1:A:34:LYS:HG2	1:A:83:HIS:HE1	1.61	0.65
6:H:111:LEU:CD1	6:H:111:LEU:HG	2.16	0.65
8:J:7:CYS:SG	8:J:46:CYS:SG	2.94	0.65
1:A:1055:ARG:CD	1:A:1055:ARG:CB	2.73	0.65
1:A:567:LYS:CD	6:H:95:TYR:CD2	2.77	0.65
1:A:934:LYS:CD	1:A:934:LYS:CB	2.70	0.65
1:A:1224:LEU:HD23	1:A:1226:VAL:CG2	2.26	0.65
2:B:787:VAL:CG1	2:B:787:VAL:O	2.44	0.65
2:B:899:ILE:CD1	2:B:911:ILE:HA	2.26	0.65
4:E:61:GLN:HB2	4:E:79:TRP:CE3	2.32	0.65
6:H:22:LYS:CG	6:H:22:LYS:HE2	2.24	0.65
1:A:672:ASP:HB3	1:A:674:PRO:HG2	1.79	0.65
1:A:1151:GLU:CG	7:I:45:ARG:CD	2.70	0.65
2:B:484:ASN:OD1	2:B:486:TYR:CE1	2.49	0.65
3:C:196:ASP:HB3	3:C:199:LYS:HG3	1.77	0.65
4:E:63:ASN:O	4:E:64:PRO:O	2.15	0.65
2:B:118:ARG:CA	2:B:118:ARG:CG	2.70	0.65
6:H:76:THR:O	6:H:76:THR:HG22	1.96	0.65
9:K:29:ASN:HB3	9:K:77:THR:O	1.96	0.65
2:B:25:ILE:HG22	2:B:658:ILE:HD11	1.78	0.65
2:B:1065:GLN:NE2	2:B:1067:ARG:H	1.95	0.65
7:I:16:PRO:HG3	7:I:27:PHE:CE2	2.32	0.65
1:A:46:THR:CB	1:A:46:THR:C	2.69	0.65
1:A:69:THR:CA	1:A:69:THR:HB	2.16	0.65
2:B:245:GLU:C	2:B:245:GLU:N	2.51	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:344:LYS:O	2:B:347:LYS:N	2.29	0.65
2:B:1002:THR:HG21	2:B:1006:ILE:HB	1.78	0.65
2:B:1171:VAL:HG21	2:B:1191:ILE:HD12	1.78	0.65
1:A:156:ASP:OD2	1:A:156:ASP:N	2.29	0.65
1:A:919:ILE:HD13	1:A:983:ILE:HD13	1.79	0.65
2:B:883:LEU:CB	2:B:883:LEU:HA	2.18	0.65
1:A:1132:LYS:CD	1:A:1132:LYS:CB	2.73	0.65
1:A:213:HIS:CB	1:A:213:HIS:C	2.69	0.65
1:A:1151:GLU:HG2	7:I:45:ARG:CD	2.26	0.65
4:E:78:LEU:HG	4:E:79:TRP:N	2.10	0.65
1:A:211:PHE:HA	1:A:214:ILE:HD12	1.79	0.64
1:A:407:ARG:HD2	1:A:413:ILE:HD11	1.79	0.64
1:A:566:ILE:HD12	1:A:566:ILE:N	2.11	0.64
1:A:1162:VAL:CG1	1:A:1162:VAL:CG2	2.75	0.64
1:A:1425:SER:O	1:A:1429:ILE:HD12	1.98	0.64
2:B:169:ARG:CB	2:B:454:THR:HG23	2.23	0.64
8:J:4:PRO:HD3	8:J:53:HIS:HD2	1.62	0.64
1:A:446:ARG:HG2	1:A:446:ARG:HH11	1.60	0.64
1:A:550:LEU:HD13	1:A:556:TRP:CZ2	2.32	0.64
2:B:136:THR:CA	2:B:136:THR:HB	2.15	0.64
2:B:273:LEU:HB2	2:B:276:ILE:HD12	1.80	0.64
5:F:81:THR:HG23	5:F:136:ARG:HH11	1.58	0.64
2:B:282:ILE:HD12	2:B:283:VAL:N	2.13	0.64
2:B:655:LYS:CG	2:B:655:LYS:CE	2.74	0.64
3:C:133:ILE:HD11	3:C:237:SER:HA	1.79	0.64
1:A:19:PHE:HB2	1:A:1417:GLU:O	1.97	0.64
1:A:901:LEU:HB2	1:A:926:GLN:NE2	2.09	0.64
2:B:653:VAL:O	2:B:654:ARG:HD3	1.97	0.64
4:E:197:LYS:CG	4:E:197:LYS:CE	2.70	0.64
1:A:50:ILE:HG22	1:A:52:GLY:N	2.12	0.64
2:B:191:LYS:CG	2:B:191:LYS:CA	2.75	0.64
2:B:883:LEU:CG	2:B:883:LEU:HB3	2.16	0.64
3:C:208:GLU:O	3:C:210:GLU:N	2.31	0.64
10:L:48:CYS:HB3	10:L:51:CYS:O	1.98	0.64
1:A:605:MET:HE2	1:A:607:ILE:HD11	1.79	0.64
1:A:737:LEU:CD2	1:A:737:LEU:CB	2.76	0.64
2:B:1191:ILE:CG2	2:B:1192:TYR:N	2.59	0.64
3:C:8:VAL:HG12	3:C:9:LYS:H	1.62	0.64
7:I:46:HIS:CB	7:I:46:HIS:C	2.65	0.64
1:A:132:LYS:CD	1:A:132:LYS:CB	2.75	0.64
1:A:567:LYS:HB3	6:H:96:VAL:HG23	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:587:HIS:NE2	1:A:969:GLN:HG2	2.13	0.64
1:A:843:LYS:CD	1:A:843:LYS:NZ	2.59	0.64
2:B:63:ILE:HD12	2:B:92:PHE:HB2	1.80	0.64
2:B:770:GLN:HG2	2:B:983:ARG:O	1.98	0.64
2:B:882:THR:HG1	2:B:933:SER:N	1.95	0.64
4:E:2:ASP:HB3	4:E:6:GLU:HB2	1.78	0.64
7:I:120:GLN:O	7:I:121:PHE:HB2	1.96	0.64
1:A:120:GLU:CG	1:A:123:ARG:HH22	2.10	0.64
1:A:199:LEU:CD1	1:A:199:LEU:CD2	2.74	0.64
1:A:535:THR:HG21	1:A:617:VAL:N	2.09	0.64
2:B:999:MET:CG	2:B:999:MET:HE2	2.15	0.64
3:C:5:GLY:C	3:C:24:ASN:HD22	2.05	0.64
3:C:209:TYR:N	3:C:209:TYR:CD1	2.64	0.64
10:L:43:THR:CA	10:L:43:THR:HB	2.12	0.64
1:A:56:PRO:O	1:A:57:ARG:CG	2.46	0.64
1:A:172:PRO:HG2	1:A:174:ILE:CD1	2.28	0.64
1:A:1118:VAL:HB	1:A:1327:ILE:CD1	2.26	0.64
1:A:1363:VAL:CG1	1:A:1363:VAL:CG2	2.75	0.64
2:B:654:ARG:H	2:B:657:HIS:HD2	1.45	0.64
6:H:111:LEU:HB3	6:H:127:GLY:O	1.98	0.64
8:J:42:LYS:CD	8:J:42:LYS:CB	2.72	0.64
2:B:542:MET:HE2	2:B:747:MET:HG3	1.79	0.63
3:C:40:GLU:CD	3:C:254:LYS:NZ	2.56	0.63
3:C:180:TYR:CD1	3:C:180:TYR:C	2.76	0.63
1:A:1151:GLU:HG3	7:I:45:ARG:HD2	1.76	0.63
2:B:516:ASN:HD22	2:B:516:ASN:H	1.46	0.63
2:B:933:SER:C	2:B:933:SER:HA	2.12	0.63
3:C:255:VAL:O	3:C:255:VAL:HG12	1.97	0.63
1:A:138:ILE:HG13	1:A:139:TRP:N	2.12	0.63
2:B:30:SER:O	2:B:34:ILE:HD12	1.98	0.63
1:A:1208:THR:O	1:A:1209:MET:C	2.35	0.63
2:B:1158:PHE:CE2	2:B:1159:ARG:O	2.50	0.63
4:E:59:SER:O	4:E:60:PHE:HB3	1.98	0.63
6:H:56:THR:CA	6:H:56:THR:HB	2.14	0.63
2:B:364:ILE:CD1	2:B:585:VAL:HG13	2.18	0.63
2:B:419:THR:O	2:B:419:THR:HG22	1.98	0.63
2:B:1152:MET:HA	2:B:1152:MET:CE	2.27	0.63
3:C:124:LEU:CD2	3:C:124:LEU:CA	2.76	0.63
1:A:31:SER:CA	1:A:32:VAL:N	2.57	0.63
1:A:571:LEU:CD2	1:A:571:LEU:HG	2.15	0.63
5:F:101:ILE:CD1	5:F:107:VAL:HG22	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:103:LYS:NZ	6:H:105:GLU:OE2	2.16	0.63
1:A:533:LYS:NZ	1:A:745:GLN:HE22	1.97	0.63
1:A:752:LYS:CE	2:B:1019:SER:CB	2.72	0.63
1:A:846:GLU:HA	1:A:1066:VAL:HG23	1.81	0.63
2:B:67:SER:O	2:B:91:SER:HA	1.98	0.63
2:B:293:PRO:HB3	7:I:11:ASN:HB3	1.80	0.63
3:C:11:ARG:O	3:C:12:GLU:HG3	1.98	0.63
2:B:98:THR:OG1	2:B:127:GLY:O	2.17	0.63
2:B:429:PHE:CE2	2:B:433:GLN:NE2	2.66	0.63
1:A:689:LYS:O	1:A:693:VAL:HG23	1.99	0.63
1:A:752:LYS:HE2	2:B:1019:SER:HB2	1.78	0.63
1:A:1055:ARG:CG	1:A:1055:ARG:HE	2.10	0.63
2:B:515:HIS:H	2:B:518:HIS:CD2	2.13	0.63
2:B:1002:THR:O	2:B:1003:ALA:C	2.35	0.63
2:B:1160:VAL:HG12	2:B:1161:HIS:N	2.11	0.63
3:C:40:GLU:OE1	3:C:254:LYS:NZ	2.32	0.63
6:H:4:THR:O	6:H:5:LEU:HD23	1.99	0.63
1:A:351:THR:HG21	2:B:1103:ILE:CG1	2.29	0.62
2:B:115:GLN:CG	2:B:115:GLN:CA	2.76	0.62
2:B:953:LEU:HD23	2:B:953:LEU:C	2.24	0.62
4:E:177:ARG:HD3	4:E:215:MET:HE2	1.81	0.62
3:C:124:LEU:CD2	3:C:124:LEU:CB	2.77	0.62
3:C:183:TRP:NE1	3:C:207:CYS:HB3	2.14	0.62
1:A:444:PHE:CE2	1:A:470:LEU:HD21	2.34	0.62
1:A:744:LYS:CE	1:A:744:LYS:CG	2.75	0.62
1:A:976:THR:CB	1:A:976:THR:C	2.68	0.62
1:A:1072:ILE:CD1	1:A:1368:MET:HG3	2.29	0.62
2:B:121:ASN:HD21	2:B:965:LYS:NZ	1.97	0.62
2:B:1020:ARG:CA	2:B:1021:MET:N	2.55	0.62
4:E:23:VAL:HG11	4:E:30:ILE:HD11	1.80	0.62
5:F:81:THR:CG2	5:F:136:ARG:NH1	2.61	0.62
6:H:105:GLU:HB3	6:H:107:VAL:HG23	1.80	0.62
1:A:42:ASP:OD2	1:A:47:ARG:CA	2.46	0.62
1:A:70:CYS:SG	1:A:80:HIS:CD2	2.89	0.62
1:A:1225:PHE:CB	1:A:1225:PHE:CD1	2.73	0.62
1:A:1319:VAL:CG1	1:A:1319:VAL:CA	2.72	0.62
2:B:1084:GLN:HE22	3:C:192:TRP:H	1.47	0.62
3:C:66:ARG:HH11	3:C:66:ARG:CG	2.04	0.62
5:F:100:GLN:CG	5:F:100:GLN:NE2	2.58	0.62
6:H:32:THR:CA	6:H:32:THR:CG2	2.68	0.62
1:A:121:LEU:CD1	1:A:121:LEU:HG	2.19	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:216:VAL:HA	1:A:219:PHE:CZ	2.35	0.62
2:B:729:ILE:H	2:B:729:ILE:HD12	1.64	0.62
2:B:871:THR:CB	2:B:871:THR:HA	2.18	0.62
2:B:898:LEU:C	2:B:899:ILE:O	2.30	0.62
4:E:43:LYS:O	4:E:47:CYS:CB	2.48	0.62
4:E:50:MET:C	4:E:50:MET:HA	2.13	0.62
6:H:91:ASP:CA	6:H:92:ASP:N	2.58	0.62
1:A:535:THR:CG2	1:A:616:VAL:HA	2.29	0.62
1:A:605:MET:CE	1:A:607:ILE:HG13	2.28	0.62
3:C:66:ARG:CG	3:C:66:ARG:NH1	2.56	0.62
4:E:43:LYS:CB	4:E:43:LYS:CD	2.76	0.62
9:K:65:HIS:CD2	9:K:67:PHE:H	2.16	0.62
1:A:270:LEU:O	1:A:274:ILE:HD12	1.99	0.62
1:A:752:LYS:CE	1:A:752:LYS:HG2	2.29	0.62
3:C:26:ASP:O	3:C:27:LEU:C	2.38	0.62
9:K:95:ILE:CG2	9:K:95:ILE:CA	2.71	0.62
10:L:40:LEU:CD2	10:L:40:LEU:CD1	2.75	0.62
1:A:567:LYS:HD3	6:H:95:TYR:C	2.24	0.62
1:A:698:GLN:CG	1:A:698:GLN:NE2	2.60	0.62
1:A:858:ASN:C	1:A:858:ASN:ND2	2.57	0.62
6:H:47:PHE:CG	6:H:95:TYR:HD1	2.17	0.62
8:J:30:LEU:CD2	8:J:30:LEU:CB	2.72	0.62
1:A:869:GLY:O	4:E:204:THR:HG21	2.00	0.62
1:A:983:ILE:N	1:A:983:ILE:C	2.53	0.62
1:A:1194:ARG:HH11	1:A:1194:ARG:HG2	1.65	0.62
2:B:999:MET:HB3	2:B:1000:PRO:HD2	1.81	0.62
4:E:161:LYS:CE	4:E:161:LYS:CG	2.67	0.62
1:A:752:LYS:HZ2	2:B:1018:PRO:HD2	1.62	0.62
1:A:914:GLU:C	1:A:916:GLY:H	2.08	0.62
1:A:1436:ILE:HD12	1:A:1436:ILE:O	2.00	0.62
4:E:147:HIS:CD2	4:E:149:LEU:H	2.12	0.62
1:A:635:ARG:CD	1:A:635:ARG:CB	2.73	0.61
1:A:1080:THR:C	1:A:1080:THR:HA	2.13	0.61
2:B:527:THR:CB	2:B:527:THR:HG1	2.07	0.61
6:H:97:MET:CE	6:H:118:PHE:CD1	2.83	0.61
1:A:535:THR:O	1:A:575:LYS:HE2	1.99	0.61
2:B:167:ILE:CG2	2:B:167:ILE:CA	2.76	0.61
3:C:148:ARG:NH1	8:J:64:ASN:HA	2.16	0.61
4:E:57:MET:CE	4:E:57:MET:SD	2.88	0.61
5:F:87:LYS:CD	5:F:87:LYS:NZ	2.63	0.61
8:J:53:HIS:C	8:J:53:HIS:ND1	2.58	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:L:27:LEU:CG	10:L:27:LEU:HB2	2.15	0.61
1:A:265:LYS:CE	1:A:302:THR:HG22	2.29	0.61
1:A:834:THR:HG21	1:A:1077:THR:HA	1.80	0.61
2:B:118:ARG:CB	2:B:118:ARG:N	2.58	0.61
2:B:639:ILE:HD11	2:B:691:GLU:CD	2.25	0.61
2:B:824:ILE:HD12	8:J:9:SER:OG	2.01	0.61
3:C:40:GLU:OE2	3:C:254:LYS:NZ	2.34	0.61
4:E:78:LEU:HD11	4:E:109:ILE:HD13	1.83	0.61
1:A:154:SER:O	1:A:155:GLU:O	2.18	0.61
1:A:274:ILE:CA	1:A:274:ILE:CG1	2.73	0.61
1:A:326:ARG:O	1:A:327:ALA:HB2	2.00	0.61
1:A:567:LYS:HD2	1:A:568:PRO:HD3	1.82	0.61
1:A:636:GLU:OE1	1:A:966:ASN:ND2	2.33	0.61
1:A:1122:PRO:O	1:A:1123:GLY:C	2.41	0.61
1:A:1193:LEU:HB3	1:A:1240:CYS:HB2	1.82	0.61
2:B:94:LYS:HG3	2:B:95:ILE:N	2.14	0.61
2:B:592:ASN:CG	2:B:592:ASN:CA	2.73	0.61
2:B:789:MET:CE	2:B:965:LYS:HB3	2.29	0.61
2:B:906:SER:O	2:B:907:GLY:C	2.41	0.61
3:C:74:SER:HB2	3:C:238:ILE:HD12	1.83	0.61
8:J:6:ARG:HD2	8:J:11:GLY:O	2.00	0.61
1:A:265:LYS:CD	1:A:302:THR:HG22	2.30	0.61
1:A:938:LYS:CD	1:A:938:LYS:CB	2.77	0.61
2:B:1128:LEU:HD12	2:B:1128:LEU:C	2.26	0.61
6:H:63:LEU:HB2	6:H:90:ALA:HB2	1.83	0.61
1:A:265:LYS:NZ	1:A:302:THR:HG21	2.15	0.61
1:A:361:LEU:HD21	1:A:511:ILE:HD11	1.82	0.61
1:A:1112:LYS:CG	1:A:1112:LYS:CA	2.74	0.61
2:B:1165:ILE:CA	2:B:1165:ILE:HB	2.17	0.61
3:C:124:LEU:O	3:C:127:ARG:HG3	2.00	0.61
9:K:55:LYS:HB2	9:K:81:TYR:CE1	2.36	0.61
9:K:88:LYS:O	9:K:89:ASN:C	2.37	0.61
1:A:804:TYR:O	2:B:761:HIS:ND1	2.33	0.61
2:B:313:MET:CE	2:B:313:MET:CB	2.79	0.61
2:B:431:TYR:CE1	2:B:447:ALA:HB1	2.36	0.61
2:B:653:VAL:O	2:B:653:VAL:HG23	1.99	0.61
2:B:788:ARG:O	2:B:789:MET:HG2	2.00	0.61
5:F:147:SER:O	5:F:148:VAL:C	2.40	0.61
8:J:14:VAL:HG13	8:J:50:ILE:HD11	1.82	0.61
1:A:187:LYS:CG	1:A:194:ALA:CB	2.79	0.61
1:A:523:ILE:HD12	1:A:622:VAL:CG2	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1112:LYS:CB	1:A:1112:LYS:CD	2.74	0.61
1:A:1282:VAL:HG22	1:A:1308:THR:HG22	1.82	0.61
2:B:458:LYS:O	2:B:459:TYR:C	2.43	0.61
2:B:603:LEU:HB3	2:B:609:ILE:HD13	1.81	0.61
4:E:85:GLU:OE2	4:E:92:THR:OG1	2.15	0.61
7:I:45:ARG:CD	7:I:45:ARG:CB	2.69	0.61
2:B:238:ALA:CB	2:B:238:ALA:C	2.66	0.61
2:B:436:VAL:CA	2:B:436:VAL:HB	2.20	0.61
2:B:795:ILE:HD12	2:B:795:ILE:N	2.15	0.61
1:A:46:THR:O	1:A:48:ALA:N	2.34	0.61
1:A:844:ALA:CB	1:A:1384:VAL:HG12	2.30	0.61
2:B:660:LYS:CG	2:B:660:LYS:HE3	2.30	0.61
2:B:1148:LYS:CD	2:B:1148:LYS:HZ2	2.13	0.61
3:C:20:PHE:N	3:C:20:PHE:CD2	2.69	0.61
1:A:275:SER:O	1:A:279:LEU:HG	2.01	0.60
1:A:415:LEU:CD1	1:A:415:LEU:CD2	2.70	0.60
3:C:3:GLU:OE1	9:K:103:THR:HG22	2.00	0.60
1:A:84:ILE:HG22	1:A:241:VAL:CG2	2.32	0.60
1:A:119:ASN:C	1:A:119:ASN:OD1	2.44	0.60
2:B:871:THR:CA	2:B:871:THR:HB	2.15	0.60
3:C:209:TYR:N	3:C:209:TYR:HD1	1.99	0.60
4:E:65:THR:O	4:E:69:ILE:CG1	2.49	0.60
4:E:65:THR:O	4:E:69:ILE:HG12	2.00	0.60
10:L:40:LEU:HD22	10:L:44:ASP:OD1	2.00	0.60
1:A:72:GLU:OE2	2:B:1175:LEU:CD1	2.47	0.60
1:A:132:LYS:CG	1:A:132:LYS:CE	2.75	0.60
1:A:216:VAL:HA	1:A:219:PHE:CE2	2.35	0.60
2:B:46:GLN:HG3	2:B:47:GLN:H	1.65	0.60
2:B:593:PRO:CG	2:B:617:ARG:NH2	2.63	0.60
2:B:899:ILE:HG22	2:B:900:ALA:H	1.65	0.60
7:I:111:THR:HG22	7:I:113:ASP:H	1.64	0.60
1:A:265:LYS:HZ3	1:A:302:THR:HG21	1.67	0.60
1:A:567:LYS:CE	6:H:95:TYR:CG	2.85	0.60
1:A:1080:THR:CB	1:A:1080:THR:N	2.62	0.60
1:A:1155:ASP:OD1	1:A:1162:VAL:CG2	2.43	0.60
1:A:1315:GLU:CB	1:A:1315:GLU:CD	2.72	0.60
2:B:313:MET:HE3	2:B:313:MET:CB	2.30	0.60
1:A:31:SER:HB3	1:A:83:HIS:CD2	2.29	0.60
2:B:417:PHE:C	2:B:417:PHE:HD2	2.07	0.60
3:C:53:THR:O	3:C:154:LYS:N	2.35	0.60
6:H:107:VAL:CB	6:H:107:VAL:HA	2.18	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:353:ILE:HD12	1:A:482:PHE:CE2	2.37	0.60
1:A:737:LEU:CD2	1:A:737:LEU:HG	2.18	0.60
2:B:313:MET:HE3	2:B:313:MET:HB3	1.82	0.60
2:B:516:ASN:H	2:B:516:ASN:ND2	2.00	0.60
2:B:744:HIS:HD2	2:B:746:SER:H	1.48	0.60
3:C:18:VAL:HG23	3:C:240:VAL:CG1	2.32	0.60
9:K:78:THR:HG22	9:K:79:GLU:N	2.17	0.60
1:A:993:LEU:HD22	1:A:1046:LEU:HD22	1.83	0.60
1:A:1134:ILE:HG22	1:A:1306:LEU:HD11	1.83	0.60
1:A:1236:LEU:CD2	1:A:1236:LEU:CB	2.74	0.60
3:C:114:TYR:CD2	3:C:140:ASN:HB3	2.36	0.60
1:A:351:THR:HG23	2:B:1103:ILE:HG13	1.82	0.60
2:B:645:SER:OG	2:B:646:LEU:N	2.33	0.60
2:B:1084:GLN:NE2	3:C:192:TRP:H	2.00	0.60
1:A:148:CYS:SG	1:A:167:CYS:SG	3.00	0.60
1:A:901:LEU:N	1:A:926:GLN:NE2	2.38	0.60
1:A:1242:VAL:HG11	1:A:1259:MET:CE	2.17	0.60
2:B:59:LEU:O	2:B:60:GLN:C	2.37	0.60
2:B:684:LEU:HD23	2:B:689:LEU:HD12	1.84	0.60
7:I:111:THR:HG21	7:I:113:ASP:HB2	1.84	0.60
1:A:145:LYS:HE3	1:A:149:GLU:OE2	2.02	0.60
1:A:173:THR:CG2	1:A:173:THR:CA	2.76	0.60
1:A:200:ARG:NH2	1:A:206:GLU:OE2	2.35	0.60
1:A:976:THR:CB	1:A:976:THR:HA	2.18	0.60
1:A:1148:ILE:CD1	1:A:1198:ASP:HB2	2.32	0.60
1:A:1450:LEU:CD2	1:A:1450:LEU:HG	2.16	0.60
2:B:46:GLN:HG3	2:B:47:GLN:N	2.17	0.60
2:B:249:ARG:CD	2:B:249:ARG:CB	2.79	0.60
2:B:556:THR:CG2	2:B:556:THR:C	2.75	0.60
2:B:620:ARG:CG	2:B:620:ARG:HE	2.14	0.60
2:B:773:MET:O	2:B:774:GLY:C	2.36	0.60
3:C:131:HIS:O	3:C:132:PRO:C	2.36	0.60
4:E:61:GLN:HB2	4:E:79:TRP:HE3	1.66	0.60
6:H:138:GLU:CG	6:H:139:ASN:N	2.61	0.60
2:B:120:ARG:CG	10:L:55:ILE:HD11	2.31	0.59
2:B:121:ASN:HA	2:B:207:GLY:HA3	1.84	0.59
3:C:260:LEU:HD12	3:C:260:LEU:O	2.02	0.59
2:B:360:PHE:O	2:B:361:LEU:C	2.43	0.59
1:A:150:THR:HA	1:A:166:GLY:HA2	1.84	0.59
1:A:494:SER:OG	1:A:497:THR:HB	2.02	0.59
1:A:1055:ARG:NE	1:A:1055:ARG:HG3	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:192:LEU:CD2	2:B:192:LEU:HG	2.17	0.59
3:C:56:THR:HG23	3:C:57:VAL:N	2.16	0.59
3:C:124:LEU:CD2	3:C:124:LEU:HG	2.18	0.59
5:F:123:LYS:NZ	5:F:123:LYS:HD2	2.18	0.59
1:A:73:GLY:C	1:A:75:ASN:N	2.58	0.59
1:A:698:GLN:CD	1:A:698:GLN:CB	2.71	0.59
2:B:136:THR:CA	2:B:136:THR:CG2	2.77	0.59
2:B:455:SER:O	2:B:459:TYR:HB3	2.01	0.59
2:B:692:TYR:C	2:B:693:ILE:HD12	2.26	0.59
2:B:984:HIS:CD2	2:B:1025:HIS:HA	2.37	0.59
2:B:999:MET:CG	2:B:999:MET:HE3	2.15	0.59
2:B:1163:CYS:HB3	2:B:1166:CYS:SG	2.41	0.59
3:C:73:GLN:HE21	3:C:75:MET:H	1.49	0.59
3:C:97:VAL:HG12	3:C:98:VAL:N	2.16	0.59
4:E:47:CYS:SG	4:E:52:ARG:O	2.60	0.59
2:B:999:MET:HE3	2:B:999:MET:HG2	1.84	0.59
2:B:365:THR:HG22	2:B:367:LEU:H	1.67	0.59
2:B:864:LYS:HB2	2:B:871:THR:HA	1.84	0.59
10:L:54:ARG:CG	10:L:54:ARG:NE	2.62	0.59
2:B:1002:THR:C	2:B:1002:THR:HA	2.14	0.59
6:H:93:TYR:CD1	6:H:93:TYR:N	2.70	0.59
1:A:33:ALA:HB2	1:A:56:PRO:HB2	1.84	0.59
1:A:1055:ARG:HE	1:A:1055:ARG:HG3	1.68	0.59
2:B:1027:ILE:HD12	2:B:1052:VAL:CG2	2.32	0.59
3:C:86:CYS:SG	3:C:92:CYS:SG	3.01	0.59
3:C:166:GLU:CB	3:C:166:GLU:CD	2.75	0.59
3:C:242:GLN:NE2	3:C:246:ARG:HE	2.00	0.59
1:A:1127:ASP:HB3	1:A:1130:GLN:H	1.67	0.59
2:B:313:MET:HE3	2:B:386:LEU:HD22	1.85	0.59
4:E:44:ALA:CB	4:E:44:ALA:C	2.71	0.59
1:A:507:VAL:HB	1:A:508:PRO:HD3	1.84	0.59
1:A:610:GLY:C	1:A:611:GLN:HG2	2.27	0.59
1:A:975:HIS:CB	1:A:975:HIS:N	2.60	0.59
1:A:1445:ILE:H	1:A:1445:ILE:HD12	1.67	0.59
2:B:63:ILE:C	2:B:63:ILE:CG2	2.75	0.59
2:B:424:LEU:HD23	2:B:425:THR:N	2.17	0.59
6:H:95:TYR:C	6:H:96:VAL:CG2	2.76	0.59
9:K:23:PRO:O	9:K:23:PRO:CD	2.49	0.59
1:A:120:GLU:HG2	1:A:123:ARG:NH2	2.18	0.58
1:A:356:ASP:OD2	1:A:469:ARG:CD	2.51	0.58
8:J:53:HIS:C	8:J:53:HIS:HD1	2.10	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:230:ARG:NH1	1:A:232:GLU:OE2	2.35	0.58
1:A:1406:VAL:C	1:A:1408:ILE:N	2.58	0.58
2:B:294:ASP:N	7:I:12:ASN:HD22	1.97	0.58
3:C:66:ARG:NH2	8:J:3:VAL:O	2.34	0.58
3:C:124:LEU:CD1	3:C:124:LEU:HG	2.23	0.58
1:A:982:THR:HG22	1:A:984:LYS:N	2.18	0.58
1:A:1323:ASP:OD1	1:A:1325:THR:HB	2.03	0.58
2:B:98:THR:C	2:B:98:THR:HB	2.23	0.58
2:B:940:PRO:O	2:B:941:LEU:C	2.44	0.58
3:C:209:TYR:HD1	3:C:209:TYR:H	1.49	0.58
9:K:94:ILE:CB	9:K:94:ILE:C	2.70	0.58
1:A:34:LYS:HG2	1:A:83:HIS:CE1	2.38	0.58
1:A:40:THR:HG23	1:A:54:ASN:ND2	2.18	0.58
1:A:213:HIS:CA	1:A:213:HIS:CG	2.84	0.58
1:A:534:LEU:O	1:A:574:GLY:HA3	2.04	0.58
1:A:903:ASN:HD21	1:A:905:ASP:HB2	1.68	0.58
2:B:1191:ILE:HG22	2:B:1192:TYR:N	2.17	0.58
4:E:50:MET:C	4:E:50:MET:CG	2.76	0.58
10:L:49:LYS:CG	10:L:49:LYS:CE	2.77	0.58
1:A:91:PHE:CD1	1:A:99:ILE:HD13	2.38	0.58
1:A:903:ASN:ND2	1:A:905:ASP:N	2.52	0.58
2:B:199:MET:HE2	2:B:492:LEU:HD23	1.85	0.58
9:K:94:ILE:CA	9:K:94:ILE:CG1	2.75	0.58
1:A:172:PRO:HG2	1:A:174:ILE:HD11	1.86	0.58
2:B:167:ILE:CG2	2:B:424:LEU:HD13	2.33	0.58
2:B:1020:ARG:O	2:B:1021:MET:HB2	1.96	0.58
1:A:134:ARG:HD2	1:A:221:SER:O	2.03	0.58
1:A:537:ARG:NH2	1:A:600:PRO:O	2.36	0.58
1:A:567:LYS:HD3	6:H:96:VAL:N	2.18	0.58
2:B:599:THR:O	2:B:600:LEU:C	2.44	0.58
4:E:36:GLU:O	4:E:38:PRO:CD	2.52	0.58
6:H:123:MET:HE3	6:H:142:LEU:HD22	1.86	0.58
1:A:9:ALA:CB	1:A:9:ALA:C	2.72	0.58
2:B:273:LEU:HD12	2:B:276:ILE:HD13	1.86	0.58
2:B:1153:GLU:CD	2:B:1153:GLU:HA	2.29	0.58
2:B:1162:ILE:HD11	2:B:1194:ILE:HG12	1.85	0.58
9:K:28:PRO:O	9:K:29:ASN:HB2	2.03	0.58
1:A:203:SER:O	1:A:204:THR:C	2.45	0.58
2:B:1084:GLN:C	2:B:1085:ILE:HG13	2.28	0.58
1:A:693:VAL:HG21	1:A:721:PHE:CE1	2.30	0.58
2:B:809:MET:O	2:B:810:GLU:C	2.42	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:870:ILE:CB	2:B:870:ILE:HA	2.22	0.58
2:B:955:THR:CG2	10:L:54:ARG:O	2.49	0.58
2:B:1222:ARG:HG2	2:B:1222:ARG:HH11	1.63	0.58
13:B:3008:CTP:O3A	14:B:3010:HOH:O	2.17	0.58
4:E:197:LYS:CD	4:E:197:LYS:CB	2.75	0.58
1:A:516:SER:O	1:A:517:ASN:CG	2.47	0.57
1:A:567:LYS:HB2	1:A:568:PRO:HD3	1.86	0.57
1:A:982:THR:C	1:A:983:ILE:CA	2.73	0.57
2:B:691:GLU:HG2	2:B:693:ILE:CD1	2.32	0.57
5:F:81:THR:HG23	5:F:136:ARG:NH1	2.19	0.57
5:F:114:GLU:HB2	5:F:120:ILE:CD1	2.34	0.57
1:A:24:PRO:C	1:A:24:PRO:HA	2.13	0.57
1:A:84:ILE:HD13	1:A:270:LEU:CD1	2.34	0.57
1:A:920:LEU:HD22	1:A:921:GLY:N	2.19	0.57
1:A:1080:THR:CA	1:A:1080:THR:HB	2.18	0.57
2:B:25:ILE:HB	2:B:29:ASP:OD2	2.04	0.57
2:B:249:ARG:CZ	2:B:415:GLN:HG3	2.33	0.57
3:C:135:GLN:CD	3:C:135:GLN:CB	2.71	0.57
4:E:129:PRO:CG	4:E:129:PRO:CA	2.79	0.57
6:H:138:GLU:CG	6:H:139:ASN:H	2.17	0.57
1:A:93:VAL:CG2	1:A:304:MET:HE3	2.34	0.57
1:A:860:LEU:CD1	1:A:860:LEU:CD2	2.76	0.57
1:A:1128:GLN:C	1:A:1128:GLN:HA	2.14	0.57
2:B:733:HIS:CA	2:B:734:HIS:N	2.62	0.57
3:C:5:GLY:O	3:C:24:ASN:ND2	2.37	0.57
3:C:40:GLU:C	3:C:163:ILE:CD1	2.77	0.57
6:H:136:LYS:C	6:H:136:LYS:HA	2.13	0.57
3:C:15:LYS:CD	3:C:15:LYS:NZ	2.66	0.57
10:L:38:LEU:CD2	10:L:38:LEU:CB	2.79	0.57
1:A:173:THR:CG2	1:A:173:THR:OG1	2.50	0.57
1:A:351:THR:CG2	2:B:1103:ILE:HG12	2.34	0.57
1:A:492:PRO:HB2	1:A:497:THR:HG22	1.85	0.57
1:A:567:LYS:HD2	6:H:95:TYR:HA	1.84	0.57
2:B:137:TYR:CG	2:B:137:TYR:HB2	2.22	0.57
1:A:120:GLU:HG2	1:A:123:ARG:HH12	1.70	0.57
3:C:53:THR:O	3:C:153:LEU:HA	2.04	0.57
5:F:111:LEU:O	5:F:113:GLY:N	2.35	0.57
1:A:670:ILE:HD13	2:B:1067:ARG:CZ	2.34	0.57
1:A:786:HIS:HE1	2:B:742:GLU:OE2	1.87	0.57
1:A:882:SER:HB3	1:A:953:ASN:OD1	2.03	0.57
2:B:1188:LYS:CD	2:B:1188:LYS:CB	2.78	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I:42:LEU:CD1	7:I:42:LEU:CB	2.74	0.57
2:B:863:GLU:OE1	2:B:962:LYS:HD3	2.04	0.57
2:B:1008:PRO:HG2	2:B:1011:ILE:HD11	1.85	0.57
3:C:56:THR:CG2	3:C:57:VAL:N	2.63	0.57
5:F:109:VAL:HG22	5:F:127:GLU:OE1	2.04	0.57
10:L:46:VAL:CG2	10:L:46:VAL:N	2.68	0.57
1:A:492:PRO:HG3	1:A:501:LEU:HD12	1.86	0.57
3:C:41:ILE:N	3:C:163:ILE:HD11	2.19	0.57
3:C:88:CYS:SG	3:C:95:CYS:SG	3.02	0.57
1:A:31:SER:C	1:A:31:SER:N	2.58	0.57
1:A:867:ILE:HD12	1:A:1000:LEU:HD21	1.85	0.57
9:K:110:ASN:CB	9:K:110:ASN:ND2	2.65	0.57
1:A:91:PHE:HD1	1:A:99:ILE:HD13	1.70	0.56
2:B:886:LYS:O	2:B:888:GLY:N	2.38	0.56
3:C:93:ASP:O	3:C:127:ARG:NH2	2.36	0.56
9:K:46:ILE:O	9:K:47:ARG:C	2.36	0.56
1:A:104:GLU:C	1:A:104:GLU:HB3	2.30	0.56
1:A:679:ILE:CD1	1:A:732:LEU:HB2	2.31	0.56
2:B:296:GLU:O	2:B:300:HIS:CD2	2.58	0.56
2:B:1084:GLN:HE22	3:C:192:TRP:N	2.03	0.56
1:A:162:VAL:CG2	1:A:162:VAL:CA	2.78	0.56
1:A:500:GLU:OE2	1:A:1438:THR:HG21	2.05	0.56
1:A:1383:SER:OG	1:A:1384:VAL:N	2.38	0.56
1:A:1445:ILE:CG2	1:A:1445:ILE:HA	2.34	0.56
2:B:98:THR:CA	2:B:98:THR:CG2	2.79	0.56
2:B:603:LEU:CB	2:B:609:ILE:HD13	2.35	0.56
2:B:875:GLU:O	2:B:876:LYS:C	2.38	0.56
3:C:252:GLN:HE22	9:K:99:GLY:CA	2.17	0.56
6:H:9:ILE:CB	6:H:9:ILE:HA	2.22	0.56
7:I:16:PRO:HG3	7:I:27:PHE:HE2	1.68	0.56
7:I:48:LEU:N	7:I:48:LEU:HD23	2.20	0.56
9:K:18:LYS:HE3	9:K:36:GLU:O	2.05	0.56
1:A:243:PRO:O	1:A:243:PRO:HG2	2.04	0.56
1:A:567:LYS:CD	6:H:95:TYR:CA	2.69	0.56
1:A:636:GLU:CD	1:A:962:ARG:HD3	2.31	0.56
1:A:982:THR:HG22	1:A:984:LYS:H	1.70	0.56
2:B:169:ARG:HG3	2:B:454:THR:OG1	2.05	0.56
2:B:1163:CYS:HA	2:B:1191:ILE:CD1	2.33	0.56
2:B:1165:ILE:CB	2:B:1165:ILE:N	2.66	0.56
6:H:57:VAL:HG22	6:H:144:ILE:CD1	2.35	0.56
1:A:446:ARG:HH11	1:A:446:ARG:CG	2.14	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:589:GLN:HB2	1:A:961:ARG:HH22	1.70	0.56
3:C:9:LYS:HG2	3:C:9:LYS:O	2.06	0.56
4:E:213:ILE:HG23	4:E:213:ILE:O	2.06	0.56
6:H:3:ASN:CB	6:H:3:ASN:ND2	2.63	0.56
6:H:56:THR:CB	6:H:56:THR:HA	2.18	0.56
2:B:100:PRO:HD2	2:B:180:TYR:CZ	2.41	0.56
2:B:169:ARG:CG	2:B:454:THR:CG2	2.82	0.56
2:B:259:TYR:HB2	2:B:268:THR:HG22	1.87	0.56
2:B:723:VAL:CG1	2:B:723:VAL:HB	2.24	0.56
2:B:726:ALA:CB	2:B:726:ALA:C	2.75	0.56
3:C:133:ILE:O	3:C:134:ILE:HD13	2.05	0.56
3:C:255:VAL:HB	9:K:95:ILE:HD11	1.86	0.56
10:L:61:THR:CG2	10:L:61:THR:HB	2.18	0.56
2:B:775:LYS:CB	2:B:775:LYS:HD2	2.36	0.56
2:B:883:LEU:CG	2:B:883:LEU:HB2	2.16	0.56
4:E:180:ARG:CG	4:E:180:ARG:CA	2.78	0.56
4:E:213:ILE:O	4:E:213:ILE:CG2	2.53	0.56
1:A:466:SER:HB2	2:B:1103:ILE:HD11	1.87	0.56
1:A:596:THR:HG22	1:A:597:LEU:N	2.20	0.56
1:A:938:LYS:CG	1:A:938:LYS:CE	2.84	0.56
1:A:1138:ILE:CD1	1:A:1319:VAL:HG21	2.36	0.56
2:B:515:HIS:CD2	2:B:517:THR:OG1	2.55	0.56
6:H:81:PRO:HB2	6:H:82:PRO:HD3	1.87	0.56
1:A:187:LYS:HG3	1:A:194:ALA:HB2	1.86	0.56
1:A:566:ILE:HD12	1:A:566:ILE:H	1.69	0.56
2:B:723:VAL:CG2	2:B:723:VAL:HB	2.19	0.56
2:B:1168:LEU:HD22	2:B:1208:MET:HE3	1.88	0.56
9:K:26:LYS:CD	9:K:26:LYS:CB	2.84	0.56
1:A:247:ARG:HH11	1:A:263:THR:CG2	2.13	0.56
1:A:351:THR:HG21	2:B:1103:ILE:HG13	1.88	0.56
1:A:566:ILE:HD13	6:H:96:VAL:O	2.05	0.56
1:A:1176:LEU:CA	1:A:1176:LEU:HB2	2.18	0.56
2:B:1162:ILE:HD13	2:B:1194:ILE:HG12	1.88	0.56
4:E:80:VAL:HG12	4:E:81:GLU:N	2.20	0.56
2:B:108:VAL:CG2	2:B:108:VAL:CG1	2.81	0.55
9:K:105:PHE:C	9:K:107:THR:N	2.63	0.55
1:A:523:ILE:HD12	1:A:622:VAL:CG1	2.36	0.55
1:A:567:LYS:CD	1:A:568:PRO:HD3	2.36	0.55
1:A:913:LEU:C	1:A:913:LEU:HD12	2.25	0.55
1:A:1004:ASN:HD21	1:A:1007:ILE:HD12	1.71	0.55
1:A:1166:ASP:O	1:A:1167:GLU:C	2.47	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:882:THR:CG2	2:B:882:THR:HB	2.21	0.55
3:C:73:GLN:HB3	3:C:131:HIS:H	1.71	0.55
5:F:129:LYS:CE	5:F:129:LYS:CG	2.84	0.55
9:K:106:GLU:O	9:K:110:ASN:ND2	2.39	0.55
1:A:187:LYS:CG	1:A:194:ALA:HB3	2.36	0.55
1:A:630:ILE:HD13	1:A:645:LEU:HD23	1.88	0.55
2:B:841:MET:HB2	2:B:990:ILE:HD12	1.88	0.55
4:E:13:TRP:CE3	4:E:39:LEU:HD13	2.41	0.55
6:H:105:GLU:C	6:H:107:VAL:N	2.58	0.55
10:L:26:THR:CA	10:L:26:THR:HB	2.19	0.55
10:L:40:LEU:CG	10:L:40:LEU:HB2	2.19	0.55
1:A:4:GLN:CG	1:A:4:GLN:H	2.19	0.55
1:A:597:LEU:H	1:A:597:LEU:HD12	1.71	0.55
1:A:599:SER:HB2	1:A:602:ASP:H	1.72	0.55
1:A:679:ILE:HD12	1:A:729:ALA:CA	2.36	0.55
1:A:1282:VAL:CG2	1:A:1282:VAL:CG1	2.78	0.55
1:A:1428:VAL:O	1:A:1429:ILE:C	2.50	0.55
2:B:654:ARG:CG	2:B:654:ARG:CA	2.68	0.55
9:K:55:LYS:HB3	9:K:81:TYR:HD1	1.72	0.55
1:A:431:LYS:CD	1:A:431:LYS:CB	2.80	0.55
3:C:71:PRO:C	3:C:133:ILE:HD12	2.32	0.55
6:H:130:ARG:HB2	6:H:133:ASN:CB	2.37	0.55
1:A:325:ILE:HG22	2:B:1210:MET:HE2	1.89	0.55
1:A:897:TYR:CD2	1:A:936:LEU:HD13	2.41	0.55
1:A:1102:LYS:CG	1:A:1102:LYS:CA	2.78	0.55
2:B:118:ARG:NH2	2:B:194:GLU:CG	2.69	0.55
2:B:827:ILE:HD12	2:B:1086:PHE:CD2	2.41	0.55
4:E:27:GLY:O	4:E:68:SER:OG	2.21	0.55
2:B:37:PHE:HB2	2:B:681:TRP:CE3	2.42	0.55
3:C:15:LYS:CD	3:C:15:LYS:CB	2.85	0.55
6:H:105:GLU:HG2	6:H:136:LYS:HZ2	1.71	0.55
7:I:14:LEU:HB3	7:I:27:PHE:HB3	1.89	0.55
7:I:120:GLN:O	7:I:121:PHE:CB	2.55	0.55
1:A:611:GLN:O	1:A:613:ILE:HD12	2.07	0.55
2:B:120:ARG:HG2	10:L:55:ILE:CD1	2.36	0.55
2:B:660:LYS:CD	2:B:660:LYS:CB	2.82	0.55
6:H:96:VAL:HA	6:H:142:LEU:O	2.07	0.55
1:A:369:SER:H	9:K:2:ASN:ND2	2.04	0.55
4:E:52:ARG:HG3	4:E:53:PRO:HD3	1.89	0.55
6:H:8:ASP:OD2	6:H:9:ILE:N	2.37	0.55
6:H:63:LEU:CD2	6:H:63:LEU:CB	2.79	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:95:TYR:C	6:H:96:VAL:HG23	2.30	0.55
9:K:11:LEU:CD1	9:K:11:LEU:CB	2.78	0.55
1:A:4:GLN:CG	1:A:4:GLN:CA	2.78	0.55
1:A:125:ALA:O	1:A:126:LEU:C	2.42	0.55
1:A:144:THR:O	1:A:146:MET:HG2	2.07	0.55
2:B:227:LYS:CG	2:B:227:LYS:CE	2.85	0.55
4:E:131:THR:CB	4:E:131:THR:C	2.69	0.55
4:E:165:LEU:CD1	4:E:165:LEU:CD2	2.82	0.55
5:F:75:PRO:O	5:F:77:ASP:N	2.40	0.55
8:J:56:LEU:O	8:J:57:ILE:C	2.47	0.55
4:E:178:ILE:HD11	4:E:182:ASP:CG	2.32	0.54
5:F:82:THR:HB	5:F:84:TYR:H	1.72	0.54
6:H:63:LEU:C	6:H:90:ALA:CB	2.76	0.54
1:A:365:GLY:HA2	1:A:461:LYS:O	2.08	0.54
1:A:567:LYS:CB	1:A:568:PRO:HD3	2.36	0.54
1:A:666:ILE:HG13	2:B:1027:ILE:CD1	2.36	0.54
1:A:982:THR:HB	1:A:985:ASP:OD2	2.07	0.54
4:E:43:LYS:O	4:E:47:CYS:HB3	2.06	0.54
6:H:142:LEU:HG	6:H:143:LEU:N	2.21	0.54
2:B:29:ASP:CB	2:B:658:ILE:HD13	2.37	0.54
2:B:269:ILE:HD12	2:B:269:ILE:N	2.21	0.54
2:B:384:ARG:CG	2:B:384:ARG:NE	2.67	0.54
2:B:425:THR:HA	2:B:428:ILE:HD12	1.89	0.54
3:C:25:VAL:CG1	3:C:29:MET:HG2	2.36	0.54
3:C:181:ASP:OD2	3:C:185:LYS:N	2.39	0.54
1:A:279:LEU:CD2	1:A:279:LEU:CB	2.79	0.54
2:B:956:THR:HA	2:B:961:LEU:O	2.08	0.54
7:I:111:THR:CG2	7:I:113:ASP:H	2.19	0.54
1:A:230:ARG:HD2	1:A:233:TRP:CZ2	2.43	0.54
1:A:265:LYS:NZ	1:A:302:THR:CG2	2.71	0.54
1:A:518:LYS:HB2	1:A:519:PRO:HD2	1.89	0.54
1:A:1349:TYR:C	1:A:1349:TYR:CD2	2.83	0.54
2:B:1174:LYS:O	2:B:1178:ASN:N	2.41	0.54
4:E:95:THR:CG2	4:E:95:THR:HB	2.18	0.54
6:H:98:TYR:C	6:H:118:PHE:HD2	2.15	0.54
1:A:26:GLU:HA	1:A:29:ALA:HB3	1.89	0.54
1:A:110:CYS:C	1:A:110:CYS:HB2	2.31	0.54
1:A:180:LYS:CG	1:A:180:LYS:CE	2.82	0.54
1:A:1441:PHE:CZ	5:F:89:GLU:HA	2.43	0.54
2:B:269:ILE:N	2:B:269:ILE:CD1	2.71	0.54
2:B:899:ILE:HD11	2:B:911:ILE:HA	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:119:ARG:HG2	5:F:119:ARG:HH11	1.71	0.54
6:H:100:THR:O	6:H:116:TYR:HA	2.07	0.54
1:A:155:GLU:OE2	4:E:125:PRO:CB	2.54	0.54
1:A:346:ASP:O	1:A:347:PHE:HB2	2.06	0.54
2:B:632:ARG:CG	2:B:632:ARG:NE	2.65	0.54
6:H:123:MET:CE	6:H:142:LEU:HD22	2.37	0.54
7:I:120:GLN:O	7:I:121:PHE:CD1	2.61	0.54
1:A:523:ILE:HD12	1:A:622:VAL:HG13	1.90	0.54
1:A:1004:ASN:ND2	4:E:167:ARG:HG3	2.23	0.54
1:A:1176:LEU:CA	1:A:1176:LEU:HB3	2.18	0.54
2:B:883:LEU:CD1	2:B:883:LEU:HG	2.17	0.54
2:B:1152:MET:HA	2:B:1152:MET:HE2	1.89	0.54
4:E:45:LYS:CE	4:E:45:LYS:CG	2.82	0.54
6:H:37:LYS:O	6:H:125:LEU:HA	2.07	0.54
1:A:601:LYS:CD	1:A:601:LYS:CB	2.81	0.54
2:B:353:LYS:CG	2:B:353:LYS:CE	2.84	0.54
4:E:180:ARG:CG	4:E:180:ARG:NE	2.66	0.54
6:H:4:THR:OG1	6:H:5:LEU:N	2.40	0.54
7:I:1:MET:CB	7:I:1:MET:C	2.73	0.54
1:A:302:THR:CG2	1:A:302:THR:OG1	2.52	0.54
1:A:711:ARG:CB	1:A:711:ARG:CD	2.82	0.54
2:B:813:LYS:CD	2:B:813:LYS:CB	2.80	0.54
1:A:909:ASP:OD1	1:A:911:SER:N	2.27	0.53
1:A:1435:PRO:HA	1:A:1439:GLY:O	2.09	0.53
2:B:112:LEU:C	2:B:112:LEU:HD12	2.31	0.53
2:B:206:ASN:OD1	2:B:458:LYS:CE	2.56	0.53
2:B:294:ASP:O	2:B:297:ILE:HB	2.08	0.53
3:C:40:GLU:C	3:C:163:ILE:HD11	2.33	0.53
3:C:74:SER:HB2	3:C:237:SER:O	2.08	0.53
6:H:113:ALA:CB	6:H:124:ARG:HH21	2.21	0.53
7:I:58:VAL:O	7:I:58:VAL:HG12	2.05	0.53
1:A:741:ASN:HD21	1:A:743:VAL:HB	1.73	0.53
1:A:895:LYS:CD	1:A:895:LYS:NZ	2.71	0.53
1:A:1283:VAL:HG12	1:A:1284:MET:O	2.08	0.53
2:B:353:LYS:CD	2:B:353:LYS:CB	2.81	0.53
3:C:7:GLN:OE1	9:K:104:ASN:ND2	2.42	0.53
3:C:9:LYS:O	3:C:10:ILE:C	2.51	0.53
3:C:38:ILE:HG13	3:C:176:ILE:HD12	1.91	0.53
4:E:16:PHE:O	4:E:20:LYS:HG2	2.08	0.53
5:F:72:LYS:CD	5:F:72:LYS:CB	2.82	0.53
1:A:119:ASN:O	1:A:120:GLU:CB	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:427:GLN:CB	1:A:427:GLN:CD	2.75	0.53
3:C:94:LYS:CG	3:C:94:LYS:CE	2.81	0.53
3:C:216:GLY:O	3:C:217:ASP:C	2.51	0.53
4:E:127:ILE:N	4:E:128:PRO:CD	2.71	0.53
1:A:62:ASP:C	1:A:64:ASN:H	2.16	0.53
1:A:247:ARG:HH12	1:A:263:THR:HG23	1.70	0.53
1:A:528:LEU:HD23	1:A:751:SER:HA	1.91	0.53
2:B:593:PRO:HG2	2:B:617:ARG:CZ	2.37	0.53
2:B:735:ALA:N	2:B:735:ALA:CB	2.63	0.53
7:I:51:ASN:HB2	7:I:118:ARG:NH2	2.24	0.53
1:A:93:VAL:HG22	1:A:304:MET:HE3	1.90	0.53
1:A:588:LEU:HD23	1:A:588:LEU:C	2.34	0.53
2:B:792:MET:SD	2:B:857:ARG:NH2	2.81	0.53
2:B:877:PRO:HB3	2:B:915:THR:HG22	1.91	0.53
2:B:969:ARG:NH2	3:C:61:GLU:OE1	2.36	0.53
2:B:1194:ILE:O	2:B:1194:ILE:HG13	2.07	0.53
3:C:41:ILE:O	3:C:163:ILE:HD11	2.08	0.53
4:E:43:LYS:O	4:E:47:CYS:HB2	2.08	0.53
10:L:34:CYS:HB3	10:L:51:CYS:SG	2.49	0.53
1:A:595:THR:CG2	1:A:596:THR:N	2.71	0.53
2:B:367:LEU:CD1	2:B:367:LEU:CD2	2.83	0.53
2:B:779:GLY:C	2:B:780:VAL:HG23	2.26	0.53
2:B:1004:GLU:HB2	2:B:1006:ILE:HD13	1.90	0.53
3:C:11:ARG:NE	3:C:209:TYR:CE2	2.67	0.53
3:C:124:LEU:CD2	3:C:124:LEU:N	2.72	0.53
1:A:1127:ASP:O	1:A:1128:GLN:C	2.52	0.53
2:B:416:LEU:CD1	2:B:466:TRP:CZ2	2.92	0.53
2:B:712:PRO:HA	2:B:733:HIS:NE2	2.23	0.53
2:B:827:ILE:HG12	2:B:1012:ILE:HD11	1.89	0.53
4:E:71:LYS:CE	4:E:160:GLU:OE2	2.57	0.53
9:K:111:LEU:CD2	9:K:111:LEU:CB	2.77	0.53
10:L:27:LEU:CA	10:L:27:LEU:HB2	2.20	0.53
1:A:274:ILE:CA	1:A:274:ILE:CG2	2.83	0.53
1:A:886:ILE:HD12	1:A:943:LEU:CB	2.36	0.53
2:B:25:ILE:HG22	2:B:658:ILE:CD1	2.39	0.53
2:B:95:ILE:HG22	2:B:96:TYR:N	2.23	0.53
2:B:273:LEU:CB	2:B:276:ILE:HD12	2.39	0.53
2:B:642:ASP:HB2	2:B:643:ASP:OD1	2.08	0.53
3:C:46:ILE:HD13	3:C:67:LEU:HB3	1.90	0.53
4:E:112:TYR:C	4:E:112:TYR:CD1	2.86	0.53
8:J:7:CYS:HA	8:J:49:MET:HE3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:K:77:THR:OG1	9:K:83:PRO:HD3	2.09	0.53
1:A:110:CYS:CB	1:A:110:CYS:N	2.67	0.53
1:A:608:ILE:HG22	1:A:609:ASP:N	2.24	0.53
2:B:266:ALA:HB1	2:B:316:PRO:HB3	1.91	0.53
2:B:1185:CYS:CB	2:B:1185:CYS:N	2.68	0.53
3:C:113:VAL:HG12	3:C:144:ILE:HD12	1.91	0.53
3:C:240:VAL:C	3:C:242:GLN:N	2.60	0.53
10:L:40:LEU:CG	10:L:40:LEU:HB3	2.19	0.53
1:A:69:THR:CB	1:A:69:THR:N	2.67	0.53
1:A:1362:TYR:C	1:A:1362:TYR:CD2	2.86	0.53
2:B:209:GLU:OE1	2:B:788:ARG:NH2	2.40	0.53
2:B:213:ILE:HD12	2:B:481:GLN:NE2	2.24	0.53
2:B:408:LEU:O	2:B:409:ALA:C	2.47	0.53
2:B:724:ASP:C	2:B:726:ALA:H	2.17	0.53
3:C:43:THR:C	3:C:77:ILE:HD13	2.34	0.53
6:H:103:LYS:HD3	6:H:105:GLU:CD	2.34	0.53
1:A:524:VAL:O	1:A:525:GLN:C	2.49	0.52
2:B:305:VAL:CG1	2:B:305:VAL:CA	2.83	0.52
2:B:545:ILE:O	2:B:546:SER:C	2.49	0.52
2:B:789:MET:HE3	2:B:965:LYS:HB3	1.90	0.52
2:B:895:ASP:CB	2:B:895:ASP:C	2.74	0.52
2:B:961:LEU:CG	2:B:961:LEU:HB2	2.19	0.52
3:C:19:ASP:OD1	3:C:20:PHE:N	2.42	0.52
1:A:27:VAL:O	1:A:27:VAL:HG12	2.09	0.52
1:A:1132:LYS:O	1:A:1133:LEU:C	2.49	0.52
2:B:104:GLU:HB2	2:B:108:VAL:HA	1.91	0.52
2:B:844:SER:O	2:B:847:ASP:HB2	2.09	0.52
3:C:214:ASN:CB	3:C:214:ASN:ND2	2.65	0.52
8:J:16:ASP:OD1	8:J:17:LYS:CG	2.58	0.52
1:A:1358:SER:CB	1:A:1358:SER:HG	2.13	0.52
2:B:280:ILE:HD12	2:B:280:ILE:N	2.24	0.52
3:C:148:ARG:HH11	8:J:64:ASN:HA	1.74	0.52
1:A:35:ILE:HD13	1:A:241:VAL:HG21	1.90	0.52
2:B:779:GLY:C	2:B:780:VAL:CG2	2.77	0.52
2:B:845:SER:O	2:B:846:ILE:C	2.50	0.52
2:B:1128:LEU:O	2:B:1128:LEU:CG	2.56	0.52
3:C:101:LEU:HB3	3:C:155:LEU:HB2	1.92	0.52
3:C:177:GLU:HB2	3:C:231:ASN:HB3	1.91	0.52
7:I:65:ASP:C	7:I:65:ASP:OD1	2.52	0.52
1:A:57:ARG:HB3	1:A:68:GLN:HG3	1.92	0.52
2:B:775:LYS:CG	2:B:775:LYS:CA	2.86	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:161:LYS:CE	4:E:172:GLU:OE2	2.57	0.52
1:A:147:VAL:CG1	1:A:147:VAL:CA	2.84	0.52
1:A:567:LYS:CB	1:A:568:PRO:CD	2.87	0.52
1:A:858:ASN:ND2	1:A:862:ASN:H	2.07	0.52
1:A:1004:ASN:ND2	1:A:1007:ILE:HD12	2.25	0.52
2:B:137:TYR:CA	2:B:137:TYR:HB3	2.19	0.52
2:B:830:TYR:O	2:B:831:SER:CB	2.55	0.52
4:E:176:PRO:O	4:E:212:ARG:HA	2.10	0.52
7:I:86:PHE:CD2	7:I:86:PHE:N	2.76	0.52
9:K:11:LEU:CD1	9:K:11:LEU:HG	2.20	0.52
1:A:381:THR:C	1:A:383:TYR:N	2.64	0.52
1:A:752:LYS:NZ	2:B:1019:SER:H	2.06	0.52
1:A:806:ARG:CZ	2:B:729:ILE:HD11	2.39	0.52
1:A:1151:GLU:HA	7:I:44:TYR:O	2.09	0.52
2:B:190:TYR:O	2:B:191:LYS:C	2.50	0.52
2:B:846:ILE:HD12	2:B:974:PRO:HB2	1.91	0.52
5:F:117:PRO:O	5:F:118:LEU:C	2.49	0.52
6:H:56:THR:O	6:H:144:ILE:HA	2.10	0.52
6:H:123:MET:CG	6:H:123:MET:CE	2.88	0.52
1:A:533:LYS:HZ2	1:A:745:GLN:HE22	1.58	0.52
1:A:595:THR:OG1	1:A:603:ASN:HB3	2.09	0.52
1:A:605:MET:HE2	1:A:607:ILE:CD1	2.39	0.52
1:A:752:LYS:NZ	2:B:1018:PRO:HD2	2.25	0.52
2:B:195:CYS:SG	2:B:197:PHE:HB2	2.49	0.52
2:B:376:PHE:HB3	2:B:586:TRP:CZ3	2.45	0.52
2:B:821:GLN:OE1	2:B:850:LEU:HD12	2.10	0.52
2:B:875:GLU:O	2:B:877:PRO:HD3	2.09	0.52
2:B:899:ILE:HD12	2:B:911:ILE:HG13	1.92	0.52
6:H:11:GLN:HB3	6:H:29:ALA:HB3	1.92	0.52
1:A:69:THR:O	2:B:1174:LYS:HG2	2.10	0.52
1:A:296:LEU:C	1:A:296:LEU:HD12	2.31	0.52
1:A:458:HIS:CE1	1:A:507:VAL:HG21	2.45	0.52
1:A:601:LYS:CD	1:A:601:LYS:NZ	2.69	0.52
1:A:982:THR:HB	1:A:985:ASP:CG	2.35	0.52
1:A:1003:LYS:CG	1:A:1003:LYS:HA	2.40	0.52
2:B:883:LEU:CA	2:B:883:LEU:HB3	2.20	0.52
6:H:7:ASP:C	6:H:7:ASP:OD1	2.52	0.52
6:H:91:ASP:C	6:H:91:ASP:CG	2.78	0.52
10:L:28:LYS:O	10:L:59:ALA:HB3	2.08	0.52
1:A:33:ALA:CB	1:A:56:PRO:HB2	2.39	0.52
1:A:35:ILE:HD13	1:A:241:VAL:HG11	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:568:PRO:HG2	6:H:46:LEU:O	2.10	0.52
1:A:1325:THR:O	4:E:148:GLU:HG2	2.09	0.52
2:B:369:GLY:C	2:B:370:PHE:CD1	2.88	0.52
2:B:764:SER:HB3	2:B:765:PRO:HD3	1.90	0.52
2:B:972:LYS:HZ2	2:B:1098:MET:HE1	1.75	0.52
5:F:75:PRO:O	5:F:76:LYS:C	2.53	0.52
10:L:47:ARG:CG	10:L:48:CYS:H	2.19	0.52
1:A:771:GLU:CD	2:B:510:LYS:NZ	2.68	0.51
1:A:784:LEU:HB3	1:A:785:PRO:HD2	1.91	0.51
1:A:1163:ILE:O	1:A:1164:PRO:C	2.51	0.51
2:B:23:ALA:HB3	2:B:655:LYS:HG3	1.92	0.51
9:K:1:MET:N	9:K:1:MET:HE3	2.25	0.51
10:L:46:VAL:CG2	10:L:46:VAL:CA	2.81	0.51
10:L:48:CYS:HG	12:L:3005:ZN:ZN	1.19	0.51
1:A:941:LYS:CD	1:A:941:LYS:NZ	2.73	0.51
1:A:1098:VAL:N	1:A:1099:PRO:CD	2.73	0.51
1:A:1259:MET:O	1:A:1263:ILE:HG12	2.10	0.51
1:A:1287:TYR:O	1:A:1302:PRO:HA	2.11	0.51
2:B:578:THR:HG23	2:B:622:LYS:O	2.09	0.51
2:B:616:ILE:HD12	2:B:616:ILE:N	2.25	0.51
2:B:778:MET:HE2	2:B:794:ASN:OD1	2.09	0.51
5:F:83:PRO:HA	5:F:146:TRP:CZ3	2.45	0.51
1:A:635:ARG:CG	1:A:635:ARG:NE	2.64	0.51
1:A:1146:VAL:O	1:A:1146:VAL:HG13	2.10	0.51
2:B:640:VAL:HG22	2:B:651:LEU:CD2	2.40	0.51
2:B:724:ASP:O	2:B:725:PRO:C	2.49	0.51
2:B:883:LEU:CA	2:B:883:LEU:HB2	2.20	0.51
6:H:47:PHE:CB	6:H:95:TYR:HD1	2.23	0.51
6:H:63:LEU:CD2	6:H:63:LEU:CD1	2.82	0.51
6:H:111:LEU:CB	6:H:127:GLY:O	2.58	0.51
10:L:48:CYS:CA	10:L:49:LYS:N	2.68	0.51
1:A:378:GLU:OE1	1:A:434:ARG:HD3	2.11	0.51
1:A:573:SER:O	1:A:574:GLY:C	2.51	0.51
1:A:844:ALA:HB2	1:A:1384:VAL:HG12	1.92	0.51
2:B:902:GLY:O	10:L:65:VAL:HG11	2.10	0.51
3:C:98:VAL:C	3:C:99:LEU:HD12	2.36	0.51
3:C:233:GLU:OE1	8:J:12:LYS:HE2	2.11	0.51
3:C:242:GLN:HE21	3:C:246:ARG:HE	1.57	0.51
5:F:107:VAL:HG12	5:F:109:VAL:H	1.75	0.51
1:A:265:LYS:HD3	1:A:302:THR:HG22	1.92	0.51
1:A:958:VAL:O	1:A:960:ILE:HD12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:224:GLN:HB3	2:B:226:PHE:CZ	2.45	0.51
2:B:1102:LYS:CB	2:B:1102:LYS:CD	2.81	0.51
3:C:207:CYS:O	3:C:208:GLU:C	2.53	0.51
4:E:52:ARG:CG	4:E:53:PRO:HD3	2.41	0.51
5:F:82:THR:HB	5:F:84:TYR:N	2.25	0.51
8:J:3:VAL:HA	8:J:53:HIS:CD2	2.45	0.51
1:A:55:ASP:O	1:A:55:ASP:CG	2.49	0.51
1:A:567:LYS:CD	6:H:95:TYR:CD1	2.94	0.51
1:A:666:ILE:O	1:A:666:ILE:HD13	2.10	0.51
1:A:692:ASP:O	1:A:696:GLU:HB3	2.11	0.51
1:A:793:SER:O	1:A:794:PRO:C	2.48	0.51
1:A:830:LYS:CD	1:A:830:LYS:CB	2.79	0.51
1:A:1094:VAL:CG1	1:A:1094:VAL:HB	2.21	0.51
1:A:1164:PRO:O	1:A:1167:GLU:HG2	2.10	0.51
1:A:1318:THR:HG23	4:E:11:ARG:HH12	1.75	0.51
2:B:89:GLU:HB2	2:B:137:TYR:HB2	1.92	0.51
2:B:90:ILE:HA	2:B:133:LYS:O	2.10	0.51
2:B:450:ALA:O	2:B:451:LYS:C	2.52	0.51
2:B:1020:ARG:O	2:B:1021:MET:C	2.51	0.51
3:C:112:ASN:CB	3:C:114:TYR:CE1	2.94	0.51
3:C:133:ILE:CD1	3:C:237:SER:HA	2.41	0.51
7:I:72:ASP:CG	7:I:72:ASP:CA	2.78	0.51
1:A:705:LYS:CB	1:A:705:LYS:C	2.79	0.51
1:A:982:THR:HG22	1:A:985:ASP:H	1.74	0.51
2:B:350:GLN:HG3	2:B:350:GLN:O	2.10	0.51
2:B:518:HIS:O	2:B:519:TRP:C	2.48	0.51
2:B:622:LYS:CB	2:B:622:LYS:CD	2.88	0.51
2:B:639:ILE:CG2	2:B:639:ILE:C	2.84	0.51
9:K:55:LYS:CB	9:K:81:TYR:CD1	2.93	0.51
1:A:15:LYS:CG	1:A:15:LYS:CA	2.82	0.51
1:A:265:LYS:CE	1:A:302:THR:CG2	2.88	0.51
1:A:511:ILE:HD13	1:A:521:MET:CE	2.40	0.51
1:A:771:GLU:OE2	2:B:510:LYS:NZ	2.41	0.51
1:A:1027:ALA:O	1:A:1030:ARG:HB2	2.10	0.51
1:A:1151:GLU:CD	7:I:45:ARG:CD	2.84	0.51
2:B:705:MET:HE3	2:B:705:MET:HG3	1.84	0.51
2:B:795:ILE:HD13	2:B:856:PHE:CE1	2.44	0.51
3:C:4:GLU:HG2	3:C:5:GLY:H	1.75	0.51
3:C:214:ASN:O	3:C:217:ASP:HB2	2.10	0.51
6:H:105:GLU:CD	6:H:105:GLU:N	2.61	0.51
1:A:283:GLY:O	1:A:284:ALA:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:843:LYS:CE	1:A:843:LYS:CG	2.88	0.51
2:B:733:HIS:C	2:B:733:HIS:CB	2.78	0.51
2:B:1059:LEU:HD11	2:B:1064:TYR:HB2	1.93	0.51
6:H:91:ASP:C	6:H:91:ASP:OD1	2.54	0.51
7:I:51:ASN:CB	7:I:118:ARG:CZ	2.86	0.51
1:A:546:VAL:O	1:A:547:LEU:C	2.51	0.51
1:A:984:LYS:NZ	1:A:984:LYS:CD	2.67	0.51
1:A:1203:ASN:O	1:A:1205:LYS:N	2.44	0.51
2:B:98:THR:OG1	2:B:127:GLY:N	2.44	0.51
2:B:113:TYR:CG	2:B:192:LEU:HD22	2.46	0.51
2:B:137:TYR:CG	2:B:137:TYR:HB3	2.22	0.51
2:B:595:ARG:CD	2:B:595:ARG:CB	2.84	0.51
4:E:23:VAL:CG1	4:E:30:ILE:HD11	2.41	0.51
4:E:45:LYS:CD	4:E:45:LYS:NZ	2.69	0.51
7:I:75:CYS:HB2	7:I:77:LYS:H	1.75	0.51
7:I:117:LYS:NZ	7:I:117:LYS:CD	2.70	0.51
9:K:18:LYS:HE2	9:K:38:GLU:OE2	2.10	0.51
1:A:84:ILE:HG22	1:A:241:VAL:HG23	1.92	0.50
1:A:914:GLU:C	1:A:916:GLY:N	2.69	0.50
2:B:59:LEU:HG	2:B:95:ILE:HD13	1.93	0.50
2:B:98:THR:HB	2:B:99:LYS:O	2.11	0.50
2:B:556:THR:C	2:B:556:THR:HG22	2.36	0.50
2:B:899:ILE:HD12	2:B:911:ILE:HA	1.92	0.50
3:C:112:ASN:HB3	3:C:114:TYR:CE1	2.46	0.50
5:F:114:GLU:OE1	5:F:119:ARG:NE	2.43	0.50
1:A:270:LEU:C	1:A:274:ILE:HD12	2.35	0.50
1:A:474:VAL:O	1:A:475:THR:C	2.51	0.50
1:A:551:TYR:CD2	9:K:62:LYS:HD3	2.46	0.50
1:A:884:ASP:O	1:A:886:ILE:N	2.44	0.50
1:A:1004:ASN:OD1	4:E:167:ARG:HG3	2.10	0.50
1:A:1135:ARG:CG	1:A:1135:ARG:NE	2.71	0.50
2:B:206:ASN:OD1	2:B:458:LYS:HE2	2.12	0.50
2:B:1027:ILE:HD12	2:B:1052:VAL:HG22	1.93	0.50
10:L:54:ARG:CD	10:L:54:ARG:CB	2.78	0.50
1:A:72:GLU:HG2	2:B:1175:LEU:HD11	1.94	0.50
1:A:144:THR:CB	1:A:144:THR:N	2.66	0.50
1:A:909:ASP:CG	1:A:910:PRO:HD2	2.36	0.50
2:B:212:LEU:HD23	2:B:480:SER:HB2	1.93	0.50
2:B:273:LEU:HB3	2:B:274:PRO:HD2	1.92	0.50
9:K:88:LYS:CG	9:K:88:LYS:CE	2.85	0.50
1:A:1151:GLU:CD	7:I:45:ARG:HD2	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:976:ILE:H	2:B:976:ILE:HD12	1.76	0.50
3:C:43:THR:O	3:C:161:LYS:HA	2.11	0.50
6:H:56:THR:CA	6:H:56:THR:CG2	2.83	0.50
1:A:247:ARG:HH12	1:A:263:THR:CG2	2.24	0.50
2:B:192:LEU:CD2	2:B:192:LEU:CB	2.81	0.50
2:B:898:LEU:O	10:L:58:LYS:HE3	2.11	0.50
2:B:1221:SER:CA	2:B:1222:ARG:N	2.63	0.50
4:E:178:ILE:O	4:E:214:CYS:HA	2.12	0.50
6:H:56:THR:O	6:H:144:ILE:HD13	2.12	0.50
1:A:466:SER:CB	2:B:1103:ILE:HD11	2.40	0.50
1:A:511:ILE:CD1	1:A:521:MET:SD	3.00	0.50
1:A:518:LYS:CE	1:A:518:LYS:CG	2.88	0.50
1:A:567:LYS:HD3	6:H:95:TYR:CB	2.39	0.50
1:A:1436:ILE:HD12	2:B:1144:ALA:HB2	1.94	0.50
2:B:29:ASP:CG	2:B:658:ILE:HD13	2.37	0.50
2:B:35:SER:HA	2:B:811:TYR:CE2	2.46	0.50
2:B:1029:CYS:HB2	2:B:1090:THR:OG1	2.12	0.50
4:E:31:THR:O	4:E:32:GLN:C	2.54	0.50
4:E:93:MET:CE	4:E:116:ILE:HG21	2.42	0.50
1:A:754:SER:H	1:A:757:ASN:HD22	1.60	0.50
1:A:1163:ILE:N	1:A:1163:ILE:HD12	2.26	0.50
1:A:1341:ILE:HD13	1:A:1379:GLY:O	2.10	0.50
2:B:273:LEU:CD1	2:B:276:ILE:HD13	2.42	0.50
2:B:453:ILE:HG22	2:B:454:THR:N	2.24	0.50
2:B:528:PRO:HG2	2:B:532:ALA:HB3	1.94	0.50
2:B:882:THR:C	2:B:882:THR:CB	2.81	0.50
2:B:1165:ILE:CA	2:B:1165:ILE:CG2	2.83	0.50
7:I:49:ILE:HG22	7:I:49:ILE:O	2.12	0.50
8:J:2:ILE:HD11	8:J:57:ILE:HD13	1.94	0.50
1:A:72:GLU:HG2	2:B:1175:LEU:CD1	2.42	0.50
1:A:130:ASP:O	1:A:131:SER:C	2.53	0.50
1:A:565:ILE:HG22	1:A:569:LYS:O	2.11	0.50
1:A:1209:MET:O	1:A:1210:GLY:C	2.49	0.50
3:C:56:THR:CG2	3:C:58:LEU:H	2.24	0.50
6:H:105:GLU:HG2	6:H:136:LYS:NZ	2.27	0.50
7:I:75:CYS:SG	7:I:106:CYS:SG	3.10	0.50
8:J:2:ILE:O	8:J:3:VAL:C	2.50	0.50
1:A:107:CYS:HB2	1:A:148:CYS:HB2	1.92	0.50
1:A:191:THR:CG2	1:A:191:THR:HB	2.20	0.50
1:A:679:ILE:HD13	1:A:732:LEU:HD12	1.94	0.50
2:B:705:MET:CE	2:B:745:PRO:HG3	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:L:26:THR:HG22	10:L:28:LYS:H	1.76	0.50
1:A:31:SER:CB	1:A:83:HIS:CD2	2.87	0.49
1:A:289:ILE:CB	1:A:289:ILE:C	2.76	0.49
1:A:551:TYR:O	9:K:62:LYS:NZ	2.45	0.49
1:A:1150:SER:OG	7:I:46:HIS:HB3	2.12	0.49
1:A:1259:MET:O	1:A:1260:LEU:C	2.52	0.49
2:B:408:LEU:O	2:B:411:PRO:HD2	2.12	0.49
2:B:431:TYR:CE1	2:B:447:ALA:CB	2.95	0.49
2:B:841:MET:HE3	2:B:990:ILE:HD11	1.94	0.49
4:E:78:LEU:HD21	4:E:80:VAL:CG2	2.42	0.49
1:A:84:ILE:HD13	1:A:270:LEU:HD11	1.93	0.49
1:A:523:ILE:HD12	1:A:622:VAL:HG22	1.93	0.49
1:A:786:HIS:H	1:A:786:HIS:CD2	2.29	0.49
1:A:1127:ASP:OD2	1:A:1130:GLN:HB2	2.12	0.49
2:B:118:ARG:NH2	2:B:194:GLU:CD	2.68	0.49
6:H:10:PHE:O	6:H:54:SER:HB2	2.11	0.49
8:J:16:ASP:OD1	8:J:17:LYS:HG2	2.12	0.49
1:A:3:GLY:N	1:A:76:GLU:OE2	2.45	0.49
1:A:531:ILE:HD11	1:A:578:LEU:HD21	1.94	0.49
2:B:25:ILE:CG2	2:B:658:ILE:CD1	2.79	0.49
2:B:180:TYR:C	2:B:180:TYR:HA	2.18	0.49
2:B:311:LEU:O	2:B:312:GLU:C	2.55	0.49
2:B:1097:HIS:CE1	2:B:1102:LYS:HG3	2.47	0.49
2:B:1189:ILE:CG2	2:B:1189:ILE:CA	2.87	0.49
3:C:147:LEU:CB	3:C:147:LEU:CD1	2.85	0.49
6:H:77:ARG:C	6:H:78:SER:O	2.50	0.49
6:H:138:GLU:O	6:H:139:ASN:O	2.27	0.49
9:K:1:MET:HE3	9:K:1:MET:H3	1.76	0.49
1:A:9:ALA:CB	1:A:9:ALA:N	2.66	0.49
1:A:901:LEU:N	1:A:926:GLN:HE22	2.04	0.49
1:A:1235:LYS:CG	1:A:1235:LYS:CA	2.85	0.49
1:A:1446:ASP:HB3	5:F:131:PRO:O	2.13	0.49
2:B:114:PRO:HD3	2:B:124:TYR:CZ	2.42	0.49
2:B:510:LYS:N	2:B:511:PRO:CD	2.74	0.49
2:B:566:LEU:O	2:B:567:GLU:C	2.54	0.49
2:B:788:ARG:C	2:B:789:MET:HG2	2.38	0.49
2:B:899:ILE:CD1	2:B:911:ILE:HG13	2.41	0.49
3:C:48:SER:C	3:C:49:VAL:HG23	2.37	0.49
3:C:48:SER:HB3	3:C:158:VAL:HB	1.94	0.49
4:E:24:LYS:CD	4:E:24:LYS:HZ3	2.19	0.49
4:E:36:GLU:O	4:E:38:PRO:HD3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:50:ILE:CG2	1:A:51:GLY:N	2.72	0.49
1:A:353:ILE:HD12	1:A:482:PHE:CD2	2.47	0.49
1:A:735:VAL:HG12	1:A:736:ASN:N	2.24	0.49
1:A:961:ARG:O	1:A:965:GLN:HG3	2.12	0.49
2:B:48:LEU:N	2:B:48:LEU:HD23	2.27	0.49
3:C:122:SER:CB	3:C:122:SER:HG	2.12	0.49
2:B:217:ARG:NE	2:B:217:ARG:HG3	2.26	0.49
4:E:61:GLN:CG	4:E:61:GLN:CA	2.85	0.49
7:I:10:CYS:SG	7:I:29:CYS:SG	3.10	0.49
7:I:55:THR:HG21	7:I:121:PHE:O	2.11	0.49
9:K:105:PHE:C	9:K:107:THR:H	2.19	0.49
1:A:567:LYS:HB2	6:H:95:TYR:HA	1.95	0.49
2:B:544:CYS:HB2	2:B:634:TYR:CE1	2.47	0.49
3:C:162:GLY:HA3	3:C:170:TRP:CD1	2.48	0.49
9:K:47:ARG:C	9:K:47:ARG:HD2	2.38	0.49
1:A:69:THR:CA	1:A:69:THR:CG2	2.82	0.49
1:A:83:HIS:C	1:A:83:HIS:ND1	2.71	0.49
1:A:145:LYS:CE	1:A:149:GLU:CD	2.81	0.49
1:A:387:ARG:CD	1:A:387:ARG:CB	2.87	0.49
1:A:967:ALA:HB2	1:A:1044:TRP:CZ3	2.48	0.49
1:A:1203:ASN:C	1:A:1205:LYS:N	2.70	0.49
2:B:127:GLY:HA2	2:B:168:GLY:O	2.13	0.49
2:B:314:LEU:O	2:B:315:LYS:C	2.51	0.49
2:B:899:ILE:HG22	2:B:900:ALA:N	2.27	0.49
9:K:55:LYS:HB2	9:K:81:TYR:CD1	2.47	0.49
1:A:176:LYS:NZ	1:A:178:GLY:O	2.36	0.49
1:A:274:ILE:CB	1:A:274:ILE:C	2.75	0.49
2:B:581:PHE:HA	2:B:585:VAL:O	2.13	0.49
2:B:915:THR:CB	2:B:915:THR:C	2.79	0.49
2:B:1052:VAL:HA	2:B:1055:ILE:HD12	1.94	0.49
7:I:49:ILE:CG2	7:I:49:ILE:C	2.86	0.49
8:J:7:CYS:SG	8:J:46:CYS:N	2.86	0.49
9:K:18:LYS:HE3	9:K:38:GLU:HG2	1.95	0.49
9:K:111:LEU:CD1	9:K:111:LEU:HB3	2.42	0.49
1:A:58:LEU:HB3	1:A:80:HIS:O	2.12	0.49
1:A:1172:LEU:C	1:A:1173:HIS:CD2	2.90	0.49
1:A:1205:LYS:O	1:A:1206:ASP:C	2.56	0.49
2:B:43:LEU:HD11	2:B:811:TYR:O	2.13	0.49
2:B:170:LEU:HD12	2:B:457:LEU:HD13	1.94	0.49
2:B:531:GLN:CD	2:B:531:GLN:H	2.20	0.49
3:C:208:GLU:C	3:C:210:GLU:H	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:130:ARG:HB2	6:H:133:ASN:HB3	1.94	0.49
1:A:913:LEU:O	1:A:914:GLU:C	2.52	0.48
1:A:1341:ILE:HD13	1:A:1379:GLY:C	2.38	0.48
2:B:416:LEU:HD12	2:B:466:TRP:CZ2	2.47	0.48
2:B:648:HIS:HE2	2:B:711:GLU:HA	1.77	0.48
2:B:1189:ILE:CG2	2:B:1189:ILE:C	2.86	0.48
4:E:78:LEU:HD21	4:E:80:VAL:HG23	1.95	0.48
6:H:24:CYS:SG	6:H:44:VAL:HG21	2.53	0.48
6:H:52:GLN:O	6:H:53:ASP:C	2.55	0.48
7:I:49:ILE:CG2	7:I:49:ILE:CA	2.86	0.48
9:K:47:ARG:HD2	9:K:47:ARG:O	2.13	0.48
1:A:1094:VAL:CG1	1:A:1094:VAL:CA	2.81	0.48
2:B:167:ILE:CG2	2:B:424:LEU:CD1	2.92	0.48
2:B:230:ALA:CB	2:B:230:ALA:N	2.70	0.48
2:B:542:MET:HG3	2:B:747:MET:HE2	1.89	0.48
8:J:7:CYS:HB3	8:J:10:CYS:H	1.78	0.48
10:L:57:LEU:O	10:L:58:LYS:C	2.55	0.48
1:A:84:ILE:CG2	1:A:241:VAL:CG2	2.91	0.48
1:A:903:ASN:ND2	1:A:905:ASP:H	2.12	0.48
1:A:992:ASP:CG	1:A:992:ASP:CA	2.77	0.48
2:B:29:ASP:HB3	2:B:658:ILE:CD1	2.42	0.48
2:B:167:ILE:HG21	2:B:424:LEU:HD13	1.95	0.48
2:B:243:ALA:HB2	2:B:251:ILE:CD1	2.40	0.48
2:B:296:GLU:O	2:B:300:HIS:HD2	1.95	0.48
2:B:603:LEU:HD13	2:B:609:ILE:HD11	1.96	0.48
2:B:617:ARG:CG	2:B:617:ARG:NE	2.69	0.48
2:B:1097:HIS:ND1	2:B:1097:HIS:C	2.71	0.48
3:C:218:PRO:O	3:C:219:PHE:C	2.55	0.48
9:K:43:GLY:HA2	9:K:71:PHE:CZ	2.48	0.48
1:A:296:LEU:HD12	1:A:296:LEU:O	2.13	0.48
1:A:1232:ASN:CB	1:A:1232:ASN:ND2	2.70	0.48
2:B:137:TYR:CA	2:B:137:TYR:HB2	2.19	0.48
2:B:566:LEU:HD13	2:B:588:GLY:HA2	1.95	0.48
2:B:615:MET:CG	2:B:626:ILE:HD12	2.39	0.48
2:B:621:GLU:O	2:B:622:LYS:HB2	2.12	0.48
2:B:735:ALA:N	2:B:735:ALA:HA	2.06	0.48
2:B:787:VAL:C	2:B:787:VAL:HG12	2.36	0.48
2:B:827:ILE:HD12	2:B:1086:PHE:HD2	1.78	0.48
4:E:5:ASN:O	4:E:9:ILE:HG13	2.14	0.48
8:J:43:ARG:O	8:J:47:ARG:HG3	2.14	0.48
10:L:31:CYS:O	10:L:32:ALA:C	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:115:LEU:O	1:A:122:MET:HE2	2.13	0.48
1:A:784:LEU:HB3	1:A:786:HIS:HD2	1.79	0.48
2:B:273:LEU:CD1	2:B:276:ILE:CD1	2.91	0.48
2:B:520:GLY:O	2:B:521:LEU:HD23	2.13	0.48
3:C:92:CYS:SG	3:C:95:CYS:SG	3.11	0.48
7:I:3:THR:CG2	7:I:3:THR:C	2.86	0.48
9:K:82:ASP:OD1	9:K:83:PRO:CG	2.58	0.48
1:A:535:THR:HG23	1:A:616:VAL:HA	1.96	0.48
1:A:605:MET:HE1	1:A:612:ILE:HG23	1.94	0.48
1:A:630:ILE:HD12	1:A:642:CYS:SG	2.54	0.48
1:A:901:LEU:HA	1:A:907:THR:HG23	1.95	0.48
1:A:1151:GLU:O	1:A:1193:LEU:HA	2.13	0.48
2:B:70:ILE:CB	2:B:70:ILE:HA	2.22	0.48
2:B:121:ASN:ND2	2:B:965:LYS:NZ	2.61	0.48
2:B:1074:ASN:O	2:B:1075:GLY:C	2.52	0.48
3:C:244:VAL:O	3:C:248:ILE:HG12	2.14	0.48
6:H:95:TYR:CD2	6:H:95:TYR:C	2.91	0.48
1:A:983:ILE:N	1:A:983:ILE:HD12	2.28	0.48
2:B:210:LYS:HE3	2:B:461:LEU:O	2.13	0.48
2:B:237:VAL:CG1	2:B:238:ALA:N	2.72	0.48
2:B:249:ARG:C	2:B:249:ARG:CB	2.77	0.48
2:B:509:ALA:CB	2:B:509:ALA:HA	2.19	0.48
2:B:642:ASP:HB3	2:B:649:LYS:HG3	1.95	0.48
2:B:701:ILE:HD13	2:B:703:ILE:CG1	2.42	0.48
2:B:953:LEU:HD23	2:B:954:VAL:N	2.28	0.48
2:B:1006:ILE:HG22	2:B:1007:VAL:N	2.29	0.48
2:B:1153:GLU:HA	2:B:1153:GLU:OE1	2.14	0.48
3:C:8:VAL:CG1	3:C:9:LYS:H	2.27	0.48
9:K:18:LYS:C	9:K:19:LEU:HD23	2.37	0.48
9:K:83:PRO:C	9:K:85:ASP:N	2.69	0.48
1:A:516:SER:O	1:A:517:ASN:C	2.55	0.48
1:A:786:HIS:CD2	1:A:786:HIS:N	2.81	0.48
1:A:867:ILE:CG2	1:A:867:ILE:CA	2.84	0.48
1:A:868:TYR:CE1	1:A:1064:VAL:HG13	2.48	0.48
1:A:913:LEU:HD12	1:A:914:GLU:N	2.29	0.48
1:A:926:GLN:HG3	1:A:926:GLN:O	2.13	0.48
2:B:251:ILE:O	2:B:251:ILE:CG2	2.54	0.48
7:I:50:THR:O	7:I:50:THR:CG2	2.59	0.48
8:J:38:ARG:CB	8:J:38:ARG:CD	2.85	0.48
10:L:27:LEU:CA	10:L:27:LEU:HB3	2.19	0.48
1:A:41:MET:O	1:A:50:ILE:HD11	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:217:LYS:O	1:A:221:SER:HB2	2.14	0.48
1:A:351:THR:HG21	2:B:1103:ILE:HG12	1.94	0.48
1:A:709:THR:HG22	1:A:711:ARG:N	2.29	0.48
1:A:884:ASP:O	1:A:885:THR:C	2.56	0.48
1:A:1172:LEU:O	1:A:1173:HIS:CD2	2.67	0.48
2:B:167:ILE:HG22	2:B:167:ILE:O	2.13	0.48
1:A:57:ARG:HB3	1:A:68:GLN:CG	2.44	0.48
1:A:531:ILE:HD11	1:A:578:LEU:HD22	1.93	0.48
1:A:606:LEU:HG	1:A:613:ILE:HD13	1.95	0.48
1:A:1120:LEU:HD21	1:A:1131:ALA:CB	2.41	0.48
2:B:384:ARG:O	2:B:385:LEU:C	2.44	0.48
2:B:1029:CYS:C	2:B:1029:CYS:N	2.64	0.48
2:B:1198:TYR:HA	2:B:1198:TYR:CG	2.41	0.48
6:H:22:LYS:HE2	6:H:22:LYS:HG2	1.96	0.48
6:H:136:LYS:CA	6:H:137:GLN:N	2.68	0.48
1:A:690:VAL:O	1:A:691:LEU:C	2.52	0.47
1:A:1164:PRO:O	1:A:1167:GLU:CG	2.62	0.47
2:B:192:LEU:O	2:B:193:LYS:HB2	2.13	0.47
2:B:830:TYR:O	2:B:831:SER:OG	2.27	0.47
2:B:956:THR:HG22	2:B:960:GLY:HA2	1.95	0.47
1:A:664:THR:HG21	1:A:746:MET:HE2	1.96	0.47
2:B:367:LEU:CD1	2:B:367:LEU:HG	2.20	0.47
3:C:35:ARG:CD	3:C:35:ARG:CB	2.92	0.47
3:C:142:VAL:O	3:C:142:VAL:HG12	2.03	0.47
4:E:80:VAL:HA	4:E:109:ILE:O	2.14	0.47
6:H:128:ASN:O	6:H:128:ASN:OD1	2.32	0.47
7:I:71:SER:OG	7:I:83:ASN:ND2	2.47	0.47
1:A:1067:LEU:O	1:A:1071:SER:OG	2.25	0.47
2:B:99:LYS:HB3	2:B:100:PRO:HD3	1.96	0.47
2:B:642:ASP:HB3	2:B:649:LYS:HE2	1.96	0.47
2:B:820:GLY:HA3	2:B:1091:TYR:CE2	2.48	0.47
2:B:859:TYR:N	2:B:859:TYR:CD1	2.83	0.47
2:B:897:GLY:O	2:B:898:LEU:HD23	2.15	0.47
2:B:1152:MET:HA	2:B:1152:MET:HE3	1.96	0.47
5:F:109:VAL:CG1	5:F:110:ASP:N	2.77	0.47
7:I:43:VAL:O	7:I:43:VAL:CG1	2.61	0.47
10:L:43:THR:CB	10:L:43:THR:HA	2.19	0.47
1:A:237:THR:CG2	1:A:237:THR:CA	2.81	0.47
1:A:446:ARG:CG	1:A:446:ARG:NH1	2.74	0.47
1:A:498:ARG:HH11	1:A:498:ARG:HD3	1.23	0.47
2:B:122:LEU:O	2:B:207:GLY:N	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:249:ARG:CA	2:B:250:PHE:N	2.68	0.47
2:B:555:ILE:HD12	2:B:587:HIS:CE1	2.50	0.47
2:B:1161:HIS:HA	2:B:1192:TYR:O	2.14	0.47
3:C:181:ASP:CG	3:C:181:ASP:O	2.44	0.47
4:E:31:THR:CG2	4:E:31:THR:OG1	2.56	0.47
9:K:111:LEU:N	9:K:111:LEU:HD23	2.29	0.47
10:L:46:VAL:CG2	10:L:46:VAL:CG1	2.85	0.47
1:A:146:MET:HA	1:A:171:GLN:HB2	1.96	0.47
1:A:633:VAL:O	1:A:634:THR:C	2.50	0.47
2:B:724:ASP:C	2:B:726:ALA:N	2.70	0.47
2:B:1160:VAL:HG12	2:B:1161:HIS:O	2.14	0.47
4:E:127:ILE:N	4:E:128:PRO:HD3	2.29	0.47
4:E:164:LEU:HD12	4:E:168:TYR:HD1	1.79	0.47
5:F:75:PRO:CG	5:F:78:GLN:OE1	2.63	0.47
6:H:4:THR:C	6:H:5:LEU:HD23	2.39	0.47
9:K:55:LYS:CB	9:K:81:TYR:HD1	2.28	0.47
1:A:50:ILE:HG22	1:A:51:GLY:N	2.22	0.47
1:A:578:LEU:O	1:A:582:ILE:HD12	2.15	0.47
1:A:633:VAL:HG21	1:A:645:LEU:HD22	1.96	0.47
1:A:867:ILE:HD12	1:A:1000:LEU:HD11	1.97	0.47
1:A:1066:VAL:O	1:A:1067:LEU:C	2.54	0.47
1:A:1146:VAL:O	1:A:1146:VAL:CG1	2.60	0.47
2:B:877:PRO:O	2:B:878:GLN:CG	2.63	0.47
2:B:1163:CYS:HB2	2:B:1182:CYS:HB2	1.96	0.47
3:C:33:LEU:CD1	3:C:248:ILE:HD13	2.42	0.47
3:C:133:ILE:C	3:C:134:ILE:HD13	2.39	0.47
4:E:48:ASP:C	4:E:48:ASP:OD1	2.57	0.47
4:E:59:SER:O	4:E:60:PHE:CB	2.59	0.47
9:K:88:LYS:CD	9:K:88:LYS:CB	2.88	0.47
1:A:14:VAL:H	1:A:1432:GLN:NE2	2.11	0.47
1:A:202:LEU:HB3	1:A:207:ILE:HD11	1.96	0.47
1:A:837:ILE:O	1:A:838:GLN:C	2.49	0.47
1:A:862:ASN:OD1	4:E:174:GLN:HA	2.14	0.47
1:A:1100:ARG:O	1:A:1104:ILE:HG13	2.14	0.47
1:A:1194:ARG:CB	1:A:1194:ARG:HD2	2.42	0.47
1:A:1221:LYS:CG	1:A:1221:LYS:CE	2.76	0.47
1:A:1420:ASP:O	1:A:1421:CYS:HB2	2.12	0.47
2:B:101:MET:HA	2:B:110:HIS:O	2.15	0.47
2:B:416:LEU:CD2	2:B:416:LEU:CB	2.82	0.47
2:B:458:LYS:CG	2:B:458:LYS:CE	2.80	0.47
2:B:566:LEU:HD12	2:B:566:LEU:HA	1.66	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:880:THR:O	2:B:933:SER:OG	2.28	0.47
2:B:986:GLN:CD	2:B:986:GLN:HA	2.39	0.47
2:B:1006:ILE:H	2:B:1006:ILE:HD12	1.79	0.47
2:B:1163:CYS:CB	2:B:1163:CYS:HA	2.23	0.47
2:B:1185:CYS:CA	2:B:1185:CYS:HB2	2.21	0.47
3:C:57:VAL:HG21	8:J:60:PHE:HB3	1.96	0.47
3:C:241:ASP:HB3	9:K:109:TRP:CD2	2.49	0.47
5:F:119:ARG:HG2	5:F:119:ARG:NH1	2.29	0.47
6:H:56:THR:HG21	6:H:145:ARG:NE	2.30	0.47
7:I:34:TYR:CG	7:I:34:TYR:C	2.92	0.47
8:J:53:HIS:CE1	8:J:54:VAL:C	2.93	0.47
10:L:49:LYS:NZ	10:L:49:LYS:HG2	2.30	0.47
10:L:55:ILE:C	10:L:56:LEU:HG	2.40	0.47
1:A:110:CYS:SG	1:A:167:CYS:CB	3.02	0.47
1:A:679:ILE:HD11	1:A:729:ALA:O	2.15	0.47
1:A:1212:VAL:O	1:A:1213:GLY:C	2.54	0.47
2:B:185:THR:HG23	2:B:188:ASP:OD2	2.14	0.47
2:B:274:PRO:HG3	2:B:359:GLU:O	2.15	0.47
2:B:1174:LYS:O	2:B:1179:GLN:N	2.40	0.47
6:H:118:PHE:N	6:H:121:LEU:O	2.33	0.47
7:I:92:ARG:HB3	7:I:94:ASP:H	1.80	0.47
10:L:26:THR:CB	10:L:27:LEU:H	2.27	0.47
1:A:60:SER:C	1:A:61:ILE:O	2.48	0.47
1:A:93:VAL:HA	1:A:96:ILE:CD1	2.45	0.47
1:A:108:MET:HE3	1:A:108:MET:HB3	1.55	0.47
1:A:852:TYR:CD2	5:F:136:ARG:HD3	2.50	0.47
2:B:614:SER:C	2:B:615:MET:HG3	2.40	0.47
2:B:875:GLU:O	2:B:877:PRO:CD	2.62	0.47
3:C:24:ASN:ND2	3:C:24:ASN:O	2.48	0.47
4:E:100:ILE:CG2	4:E:101:GLN:N	2.59	0.47
8:J:53:HIS:ND1	8:J:54:VAL:N	2.62	0.47
1:A:421:ALA:HA	1:A:424:ILE:HD11	1.97	0.47
1:A:511:ILE:HD13	1:A:521:MET:HE3	1.95	0.47
1:A:890:ASP:O	1:A:891:ALA:C	2.53	0.47
2:B:112:LEU:HD12	2:B:113:TYR:N	2.30	0.47
4:E:14:ARG:O	4:E:15:ALA:C	2.57	0.47
9:K:100:ALA:O	9:K:103:THR:HB	2.15	0.47
1:A:967:ALA:HB2	1:A:1044:TRP:CE3	2.50	0.46
2:B:123:THR:OG1	2:B:458:LYS:HE3	2.15	0.46
2:B:254:LEU:HD23	2:B:381:MET:HE1	1.97	0.46
2:B:840:ILE:HB	2:B:1011:ILE:HB	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:883:LEU:CD2	2:B:883:LEU:HG	2.21	0.46
4:E:60:PHE:CD1	4:E:60:PHE:C	2.93	0.46
1:A:399:HIS:CD2	1:A:400:PRO:HD3	2.50	0.46
1:A:1098:VAL:N	1:A:1099:PRO:HD2	2.31	0.46
2:B:102:VAL:O	2:B:109:THR:HA	2.15	0.46
2:B:284:ILE:HD13	2:B:333:PHE:CE2	2.50	0.46
2:B:1080:LYS:NZ	2:B:1080:LYS:CD	2.76	0.46
3:C:66:ARG:O	3:C:67:LEU:C	2.57	0.46
3:C:74:SER:CB	3:C:238:ILE:HD12	2.43	0.46
3:C:112:ASN:ND2	3:C:146:LYS:HG2	2.30	0.46
3:C:154:LYS:CG	3:C:154:LYS:CA	2.88	0.46
6:H:118:PHE:O	6:H:119:GLY:C	2.54	0.46
9:K:89:ASN:CB	9:K:89:ASN:ND2	2.65	0.46
1:A:693:VAL:CG2	1:A:721:PHE:HE1	2.19	0.46
6:H:27:GLU:OE1	6:H:39:THR:CG2	2.63	0.46
6:H:113:ALA:CB	6:H:124:ARG:NH2	2.78	0.46
1:A:385:ILE:HD12	1:A:385:ILE:O	2.16	0.46
1:A:971:PHE:O	1:A:972:HIS:C	2.56	0.46
2:B:900:ALA:O	2:B:903:VAL:HG23	2.16	0.46
2:B:950:ASP:O	2:B:951:GLN:CB	2.64	0.46
3:C:135:GLN:CG	3:C:135:GLN:NE2	2.65	0.46
5:F:74:ILE:HD12	5:F:143:PHE:O	2.16	0.46
6:H:14:GLU:O	6:H:26:ILE:HA	2.16	0.46
6:H:18:GLY:O	6:H:19:ARG:HB2	2.15	0.46
10:L:34:CYS:SG	10:L:51:CYS:HB3	2.54	0.46
1:A:138:ILE:HD12	1:A:142:CYS:SG	2.55	0.46
1:A:304:MET:CE	1:A:304:MET:HB2	2.45	0.46
1:A:535:THR:O	1:A:535:THR:HG23	2.14	0.46
1:A:1030:ARG:O	1:A:1034:GLU:HB2	2.15	0.46
1:A:1053:PHE:CD2	1:A:1053:PHE:C	2.94	0.46
1:A:1258:HIS:O	1:A:1259:MET:C	2.59	0.46
2:B:114:PRO:HG3	2:B:181:LEU:HD11	1.97	0.46
2:B:189:LEU:O	2:B:190:TYR:C	2.58	0.46
2:B:199:MET:HE2	2:B:492:LEU:CD2	2.45	0.46
2:B:425:THR:CG2	2:B:425:THR:CA	2.85	0.46
5:F:75:PRO:HG2	5:F:78:GLN:OE1	2.15	0.46
6:H:103:LYS:CG	6:H:105:GLU:CD	2.88	0.46
8:J:20:SER:O	8:J:24:LEU:HG	2.14	0.46
1:A:42:ASP:OD2	1:A:47:ARG:HA	2.15	0.46
1:A:512:VAL:HG11	1:A:635:ARG:HH21	1.81	0.46
1:A:562:THR:HG22	6:H:98:TYR:CD2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:834:THR:HG21	1:A:1077:THR:OG1	2.16	0.46
2:B:243:ALA:C	2:B:244:LEU:CG	2.85	0.46
2:B:862:GLN:HE22	2:B:961:LEU:HD13	1.79	0.46
2:B:871:THR:CB	2:B:871:THR:C	2.77	0.46
2:B:1171:VAL:HG21	2:B:1191:ILE:CD1	2.46	0.46
4:E:95:THR:CG2	4:E:95:THR:CA	2.87	0.46
5:F:81:THR:HB	5:F:144:GLU:OE1	2.16	0.46
6:H:135:LEU:CD1	6:H:139:ASN:O	2.64	0.46
9:K:95:ILE:HG23	9:K:95:ILE:HD12	1.97	0.46
1:A:377:PRO:O	1:A:377:PRO:CD	2.64	0.46
1:A:406:ILE:HD12	1:A:406:ILE:N	2.30	0.46
1:A:566:ILE:HD13	6:H:96:VAL:C	2.41	0.46
1:A:566:ILE:CD1	6:H:96:VAL:O	2.62	0.46
1:A:868:TYR:CE1	1:A:1064:VAL:CG1	2.98	0.46
1:A:896:ARG:HD3	1:A:897:TYR:CZ	2.50	0.46
1:A:1079:MET:HG2	1:A:1359:ASP:CG	2.37	0.46
2:B:694:ASP:O	2:B:695:ALA:C	2.56	0.46
2:B:841:MET:CE	2:B:990:ILE:HD11	2.46	0.46
2:B:1165:ILE:N	2:B:1165:ILE:HD13	2.31	0.46
9:K:18:LYS:CE	9:K:38:GLU:OE2	2.63	0.46
1:A:326:ARG:O	1:A:327:ALA:CB	2.64	0.46
1:A:672:ASP:H	1:A:736:ASN:ND2	2.13	0.46
1:A:763:ALA:O	1:A:764:CYS:HB2	2.15	0.46
1:A:1341:ILE:HG23	1:A:1342:GLU:N	2.31	0.46
2:B:64:CYS:HA	2:B:67:SER:HB2	1.98	0.46
2:B:451:LYS:O	2:B:453:ILE:N	2.48	0.46
2:B:455:SER:O	2:B:459:TYR:CB	2.63	0.46
5:F:128:LYS:HD3	5:F:128:LYS:HA	1.80	0.46
6:H:13:SER:O	6:H:14:GLU:HG3	2.16	0.46
8:J:53:HIS:HE1	8:J:55:ASP:CA	2.29	0.46
9:K:20:LYS:CG	9:K:20:LYS:CE	2.90	0.46
10:L:47:ARG:HG2	10:L:48:CYS:N	2.22	0.46
1:A:587:HIS:HE2	1:A:969:GLN:HG2	1.80	0.46
1:A:605:MET:CE	1:A:607:ILE:CG1	2.93	0.46
1:A:1039:LYS:HE3	1:A:1043:ASP:OD2	2.16	0.46
1:A:1225:PHE:C	1:A:1226:VAL:HG23	2.39	0.46
1:A:1336:MET:HE2	1:A:1381:LEU:H	1.81	0.46
2:B:94:LYS:HG2	2:B:96:TYR:CE1	2.51	0.46
2:B:416:LEU:HD11	2:B:466:TRP:CZ2	2.50	0.46
2:B:639:ILE:CG2	2:B:639:ILE:HG13	2.43	0.46
2:B:879:ARG:HH21	2:B:885:MET:HE1	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:145:CYS:SG	3:C:146:LYS:N	2.89	0.46
1:A:72:GLU:CG	2:B:1175:LEU:CD1	2.94	0.46
1:A:243:PRO:CB	1:A:245:PRO:HD2	2.43	0.46
1:A:964:ILE:HD13	1:A:1045:VAL:HG21	1.97	0.46
2:B:189:LEU:HD23	2:B:189:LEU:HA	1.79	0.46
2:B:561:TRP:O	2:B:590:HIS:CE1	2.54	0.46
2:B:624:LEU:C	2:B:624:LEU:HD12	2.41	0.46
2:B:912:ILE:O	2:B:938:SER:HB2	2.16	0.46
2:B:1031:LEU:O	2:B:1031:LEU:HG	2.16	0.46
2:B:1035:ALA:HB1	2:B:1040:ASN:O	2.16	0.46
3:C:51:VAL:HG22	3:C:155:LEU:CD2	2.46	0.46
5:F:111:LEU:CD1	5:F:120:ILE:HD12	2.46	0.46
7:I:17:ARG:CG	7:I:17:ARG:NE	2.75	0.46
1:A:58:LEU:HA	1:A:80:HIS:HB2	1.98	0.45
1:A:444:PHE:HE2	1:A:470:LEU:HD21	1.79	0.45
1:A:531:ILE:O	1:A:535:THR:HB	2.15	0.45
2:B:113:TYR:CD2	2:B:192:LEU:CD2	2.99	0.45
2:B:276:ILE:HG21	2:B:280:ILE:HD11	1.98	0.45
3:C:56:THR:HG22	3:C:58:LEU:H	1.81	0.45
3:C:106:GLU:O	3:C:149:LYS:HD2	2.16	0.45
1:A:1194:ARG:HG2	1:A:1194:ARG:NH1	2.31	0.45
1:A:1417:GLU:OE1	1:A:1419:ASP:OD1	2.33	0.45
2:B:41:LYS:CE	2:B:41:LYS:CG	2.82	0.45
2:B:451:LYS:O	2:B:454:THR:N	2.49	0.45
2:B:557:PHE:O	2:B:560:GLU:HB2	2.16	0.45
2:B:806:THR:HG22	2:B:809:MET:H	1.81	0.45
2:B:835:GLN:O	2:B:838:SER:HB3	2.16	0.45
3:C:196:ASP:CB	3:C:199:LYS:HG3	2.44	0.45
4:E:55:ARG:O	4:E:57:MET:N	2.48	0.45
1:A:300:VAL:O	1:A:303:TYR:HB3	2.16	0.45
1:A:531:ILE:HD11	1:A:578:LEU:HD11	1.98	0.45
1:A:711:ARG:CG	1:A:711:ARG:N	2.78	0.45
1:A:1298:TYR:C	1:A:1299:VAL:HG23	2.40	0.45
2:B:113:TYR:CD2	2:B:192:LEU:HD22	2.51	0.45
6:H:52:GLN:O	6:H:53:ASP:O	2.35	0.45
6:H:105:GLU:O	6:H:106:GLU:C	2.59	0.45
6:H:138:GLU:C	6:H:140:ALA:N	2.59	0.45
10:L:26:THR:CG2	10:L:28:LYS:H	2.29	0.45
10:L:29:TYR:O	10:L:30:ILE:HG13	2.16	0.45
1:A:1036:ARG:O	1:A:1037:LEU:C	2.55	0.45
2:B:35:SER:HA	2:B:811:TYR:HE2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:408:LEU:HD11	2:B:545:ILE:HD13	1.98	0.45
2:B:420:LEU:CD1	2:B:420:LEU:CD2	2.83	0.45
2:B:555:ILE:HD13	2:B:582:VAL:HG21	1.97	0.45
2:B:710:LEU:O	2:B:711:GLU:C	2.59	0.45
2:B:758:PHE:N	2:B:759:PRO:CD	2.79	0.45
2:B:900:ALA:O	2:B:901:PRO:C	2.59	0.45
2:B:956:THR:CG2	2:B:960:GLY:HA2	2.47	0.45
3:C:27:LEU:O	3:C:30:ALA:HB3	2.16	0.45
3:C:146:LYS:CB	3:C:146:LYS:HD3	2.44	0.45
3:C:205:LYS:CD	3:C:205:LYS:NZ	2.74	0.45
6:H:15:VAL:CG2	6:H:26:ILE:HG13	2.46	0.45
8:J:43:ARG:HH11	8:J:43:ARG:HD3	1.36	0.45
9:K:55:LYS:CD	9:K:55:LYS:CB	2.82	0.45
1:A:289:ILE:CA	1:A:289:ILE:CG2	2.87	0.45
1:A:1187:GLN:CG	1:A:1187:GLN:N	2.79	0.45
2:B:20:ASP:C	2:B:22:SER:N	2.72	0.45
2:B:274:PRO:CG	2:B:359:GLU:HB3	2.47	0.45
2:B:806:THR:CG2	2:B:808:ALA:H	2.26	0.45
3:C:47:ASP:O	3:C:47:ASP:CG	2.60	0.45
4:E:65:THR:O	4:E:66:GLU:C	2.60	0.45
5:F:114:GLU:CB	5:F:120:ILE:HD13	2.40	0.45
8:J:38:ARG:CG	8:J:38:ARG:CA	2.85	0.45
9:K:65:HIS:CD2	9:K:66:PRO:N	2.84	0.45
1:A:1169:ILE:HD11	1:A:1229:SER:HB2	1.98	0.45
1:A:1204:ASP:CG	1:A:1204:ASP:O	2.60	0.45
1:A:1406:VAL:O	1:A:1407:GLU:C	2.59	0.45
1:A:1438:THR:HB	2:B:1142:GLY:O	2.16	0.45
2:B:387:LEU:HD12	2:B:387:LEU:HA	1.66	0.45
2:B:436:VAL:CB	2:B:436:VAL:HA	2.27	0.45
2:B:590:HIS:CD2	2:B:591:ARG:N	2.85	0.45
2:B:951:GLN:CG	2:B:951:GLN:NE2	2.68	0.45
2:B:953:LEU:C	2:B:953:LEU:CD2	2.90	0.45
2:B:1163:CYS:CA	2:B:1163:CYS:SG	3.02	0.45
7:I:59:VAL:O	7:I:60:GLN:C	2.54	0.45
1:A:1436:ILE:CD1	2:B:1144:ALA:HB2	2.46	0.45
2:B:121:ASN:HA	2:B:207:GLY:CA	2.47	0.45
2:B:299:GLU:HG2	2:B:571:PRO:HD2	1.98	0.45
13:B:3008:CTP:C4'	14:B:3010:HOH:O	2.33	0.45
3:C:11:ARG:HE	3:C:209:TYR:HE2	1.55	0.45
4:E:118:PRO:O	4:E:122:LYS:HG3	2.17	0.45
8:J:49:MET:HB3	8:J:50:ILE:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:262:LEU:HD22	1:A:325:ILE:CD1	2.47	0.45
1:A:540:PHE:C	1:A:541:ILE:HD12	2.42	0.45
2:B:129:PHE:CD2	2:B:166:PHE:HA	2.52	0.45
9:K:104:ASN:OD1	9:K:104:ASN:N	2.48	0.45
1:A:184:SER:CB	1:A:199:LEU:HD23	2.39	0.45
1:A:377:PRO:O	1:A:377:PRO:HD2	2.16	0.45
1:A:550:LEU:HD13	1:A:556:TRP:HZ2	1.81	0.45
1:A:1411:GLU:O	1:A:1412:ALA:C	2.58	0.45
2:B:123:THR:O	2:B:125:SER:N	2.50	0.45
2:B:875:GLU:O	2:B:877:PRO:N	2.50	0.45
2:B:957:ASN:HB3	2:B:961:LEU:H	1.82	0.45
2:B:1190:ASP:C	2:B:1191:ILE:HG12	2.39	0.45
3:C:44:LEU:HG	3:C:45:ALA:N	2.31	0.45
3:C:116:LYS:NZ	3:C:116:LYS:HD3	2.26	0.45
3:C:248:ILE:HD12	9:K:101:LEU:HD12	1.99	0.45
4:E:117:THR:O	4:E:119:SER:N	2.50	0.45
4:E:127:ILE:HD12	4:E:130:ALA:HB3	1.99	0.45
6:H:127:GLY:O	6:H:128:ASN:HB2	2.17	0.45
1:A:154:SER:C	1:A:155:GLU:O	2.60	0.45
1:A:237:THR:CG2	1:A:237:THR:C	2.89	0.45
1:A:857:ARG:CA	1:A:864:ILE:HD13	2.45	0.45
1:A:1221:LYS:CB	1:A:1221:LYS:CD	2.91	0.45
2:B:969:ARG:HH11	2:B:969:ARG:HD3	1.61	0.45
4:E:152:LYS:CB	4:E:152:LYS:CD	2.91	0.45
9:K:39:ASP:HB2	9:K:40:HIS:H	1.55	0.45
1:A:407:ARG:O	1:A:408:ASP:C	2.60	0.44
2:B:170:LEU:HD12	2:B:170:LEU:HA	1.75	0.44
2:B:232:SER:HA	2:B:233:PRO:HD3	1.81	0.44
2:B:1150:ARG:HA	2:B:1150:ARG:HD3	1.75	0.44
9:K:21:ILE:HG12	9:K:33:ILE:HG23	1.98	0.44
10:L:31:CYS:CB	10:L:34:CYS:SG	3.05	0.44
1:A:24:PRO:C	1:A:24:PRO:CB	2.74	0.44
1:A:189:ARG:O	1:A:190:ALA:HB3	2.17	0.44
1:A:464:PRO:O	1:A:465:TYR:O	2.36	0.44
2:B:213:ILE:HD11	2:B:481:GLN:OE1	2.18	0.44
2:B:578:THR:HG23	2:B:622:LYS:C	2.42	0.44
2:B:644:GLU:OE1	2:B:646:LEU:HB2	2.18	0.44
2:B:1079:LYS:HE3	3:C:188:HIS:CE1	2.51	0.44
4:E:79:TRP:NE1	4:E:81:GLU:HB2	2.32	0.44
4:E:80:VAL:CG1	4:E:81:GLU:N	2.79	0.44
4:E:96:PHE:O	4:E:97:VAL:C	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:128:ASN:O	6:H:128:ASN:CG	2.59	0.44
1:A:401:GLY:N	1:A:435:HIS:ND1	2.60	0.44
1:A:566:ILE:CG2	1:A:566:ILE:CA	2.91	0.44
1:A:1315:GLU:O	1:A:1318:THR:HG22	2.17	0.44
2:B:787:VAL:CG1	2:B:787:VAL:CG2	2.84	0.44
2:B:790:ASP:O	2:B:791:THR:C	2.59	0.44
3:C:94:LYS:CG	3:C:94:LYS:NZ	2.80	0.44
4:E:162:ARG:CG	4:E:162:ARG:NE	2.72	0.44
6:H:123:MET:HG2	6:H:124:ARG:N	2.32	0.44
1:A:507:VAL:N	1:A:508:PRO:CD	2.80	0.44
1:A:599:SER:HA	1:A:600:PRO:HD2	1.57	0.44
1:A:919:ILE:O	1:A:920:LEU:C	2.56	0.44
2:B:425:THR:CG2	2:B:425:THR:C	2.90	0.44
2:B:485:ARG:HH11	2:B:485:ARG:HG3	1.82	0.44
2:B:996:ARG:NH2	3:C:174:ALA:O	2.50	0.44
2:B:1099:VAL:O	2:B:1103:ILE:HD12	2.18	0.44
3:C:8:VAL:HG12	3:C:9:LYS:N	2.30	0.44
6:H:47:PHE:CG	6:H:95:TYR:CD1	3.03	0.44
6:H:63:LEU:CD1	6:H:63:LEU:N	2.76	0.44
6:H:91:ASP:OD1	6:H:91:ASP:O	2.34	0.44
1:A:4:GLN:H	1:A:4:GLN:HG3	1.81	0.44
1:A:399:HIS:CG	1:A:400:PRO:N	2.85	0.44
2:B:26:THR:O	2:B:28:GLU:N	2.51	0.44
3:C:5:GLY:C	3:C:24:ASN:ND2	2.75	0.44
3:C:40:GLU:C	3:C:163:ILE:HD12	2.42	0.44
3:C:80:LEU:HD12	3:C:80:LEU:HA	1.65	0.44
4:E:109:ILE:N	4:E:109:ILE:HD12	2.31	0.44
1:A:920:LEU:HD22	1:A:921:GLY:H	1.82	0.44
2:B:59:LEU:HD12	2:B:59:LEU:HA	1.74	0.44
2:B:879:ARG:NH2	2:B:885:MET:HE1	2.30	0.44
3:C:136:ASP:O	3:C:137:LYS:C	2.58	0.44
4:E:24:LYS:NZ	4:E:24:LYS:HD2	2.20	0.44
6:H:41:ASP:O	6:H:42:ILE:HG13	2.17	0.44
6:H:115:TYR:O	6:H:116:TYR:HB2	2.16	0.44
7:I:29:CYS:SG	7:I:31:THR:HB	2.58	0.44
9:K:65:HIS:CD2	9:K:66:PRO:HD2	2.53	0.44
1:A:351:THR:HG23	2:B:1103:ILE:HG12	1.95	0.44
2:B:38:PHE:O	2:B:39:ARG:C	2.55	0.44
2:B:701:ILE:HD11	2:B:703:ILE:HD11	1.99	0.44
3:C:57:VAL:CG2	8:J:60:PHE:HB3	2.48	0.44
3:C:115:SER:HA	3:C:144:ILE:HD11	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:235:VAL:HG12	3:C:235:VAL:H	1.47	0.44
5:F:98:ALA:O	5:F:102:SER:HB3	2.18	0.44
8:J:21:TYR:CD2	8:J:50:ILE:CG2	3.01	0.44
1:A:619:LYS:O	1:A:620:LYS:C	2.54	0.44
1:A:679:ILE:HD11	1:A:732:LEU:CB	2.39	0.44
1:A:962:ARG:O	1:A:963:ILE:C	2.53	0.44
2:B:89:GLU:C	2:B:90:ILE:CA	2.78	0.44
2:B:95:ILE:CG2	2:B:96:TYR:N	2.81	0.44
2:B:351:TYR:O	2:B:355:ILE:HG12	2.18	0.44
2:B:400:HIS:CE1	2:B:517:THR:HG21	2.52	0.44
2:B:429:PHE:HE2	2:B:433:GLN:NE2	2.14	0.44
2:B:461:LEU:N	2:B:461:LEU:HD12	2.32	0.44
2:B:755:ILE:HD12	2:B:814:PHE:CD1	2.53	0.44
7:I:46:HIS:CB	7:I:46:HIS:N	2.70	0.44
1:A:263:THR:C	1:A:265:LYS:N	2.72	0.44
1:A:393:ARG:CG	1:A:393:ARG:NE	2.74	0.44
1:A:587:HIS:CD2	1:A:966:ASN:OD1	2.65	0.44
1:A:836:TYR:O	1:A:837:ILE:C	2.56	0.44
1:A:903:ASN:HD21	1:A:905:ASP:H	1.66	0.44
1:A:1265:ASN:O	1:A:1266:THR:O	2.36	0.44
2:B:393:LYS:HZ1	2:B:621:GLU:CD	2.25	0.44
2:B:592:ASN:C	2:B:594:ALA:N	2.71	0.44
2:B:787:VAL:O	2:B:787:VAL:HG12	2.16	0.44
2:B:916:THR:HB	2:B:935:ARG:CB	2.42	0.44
3:C:82:TYR:O	3:C:84:ARG:N	2.51	0.44
3:C:166:GLU:O	3:C:167:HIS:HB2	2.17	0.44
3:C:208:GLU:C	3:C:210:GLU:N	2.76	0.44
3:C:251:LEU:O	3:C:254:LYS:HB2	2.18	0.44
8:J:62:ARG:HE	8:J:62:ARG:HB3	0.98	0.44
9:K:54:ARG:CG	9:K:54:ARG:CA	2.84	0.44
9:K:58:PHE:CE2	9:K:74:ARG:HG2	2.52	0.44
1:A:42:ASP:CG	1:A:46:THR:N	2.76	0.43
1:A:120:GLU:HG2	1:A:123:ARG:NH1	2.31	0.43
1:A:511:ILE:O	1:A:519:PRO:HA	2.18	0.43
1:A:545:GLN:O	1:A:546:VAL:C	2.55	0.43
1:A:664:THR:HG22	1:A:742:ASN:HB3	2.00	0.43
1:A:1293:SER:CB	1:A:1294:PRO:HD2	2.48	0.43
1:A:1438:THR:HG22	2:B:1144:ALA:HB3	1.99	0.43
2:B:137:TYR:CB	2:B:137:TYR:C	2.81	0.43
2:B:195:CYS:HA	8:J:63:TYR:OH	2.18	0.43
2:B:382:ILE:O	2:B:386:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:482:VAL:H	2:B:482:VAL:HG23	1.65	0.43
2:B:523:CYS:SG	2:B:524:PRO:HD2	2.58	0.43
2:B:544:CYS:C	2:B:545:ILE:HG13	2.42	0.43
2:B:753:ALA:HA	2:B:756:ILE:CD1	2.47	0.43
2:B:757:PRO:CD	2:B:984:HIS:HE1	2.26	0.43
7:I:95:THR:HG23	7:I:96:SER:N	2.33	0.43
1:A:35:ILE:HA	1:A:52:GLY:O	2.18	0.43
1:A:113:LEU:O	1:A:164:ARG:NH2	2.48	0.43
1:A:362:ASP:OD1	1:A:459:ARG:HD3	2.18	0.43
1:A:1106:ASN:O	1:A:1107:VAL:C	2.58	0.43
2:B:118:ARG:NH2	2:B:194:GLU:HG2	2.33	0.43
2:B:223:VAL:HG12	2:B:224:GLN:N	2.33	0.43
2:B:313:MET:CG	2:B:313:MET:HE2	2.22	0.43
2:B:663:ALA:O	2:B:664:THR:C	2.58	0.43
3:C:35:ARG:HD3	9:K:41:THR:OG1	2.18	0.43
3:C:86:CYS:HG	3:C:95:CYS:CB	2.20	0.43
3:C:252:GLN:HA	9:K:95:ILE:CD1	2.48	0.43
4:E:12:LEU:CD1	4:E:12:LEU:HG	2.20	0.43
1:A:162:VAL:CG2	1:A:162:VAL:HA	2.48	0.43
1:A:1235:LYS:CE	1:A:1235:LYS:CG	2.84	0.43
2:B:307:ASP:O	2:B:308:TRP:C	2.57	0.43
2:B:405:ARG:HA	2:B:631:GLY:O	2.19	0.43
2:B:879:ARG:HH22	2:B:885:MET:HE2	1.83	0.43
2:B:880:THR:H	2:B:934:LYS:HG3	1.83	0.43
2:B:1132:GLU:CB	2:B:1132:GLU:CD	2.85	0.43
3:C:112:ASN:HB2	3:C:114:TYR:CE1	2.52	0.43
3:C:181:ASP:OD2	3:C:186:LEU:HB2	2.19	0.43
3:C:186:LEU:HA	3:C:186:LEU:HD12	1.46	0.43
1:A:158:PRO:O	1:A:159:THR:C	2.53	0.43
1:A:302:THR:O	1:A:303:TYR:C	2.60	0.43
1:A:531:ILE:HD11	1:A:578:LEU:CD1	2.48	0.43
1:A:771:GLU:CD	2:B:510:LYS:HZ3	2.25	0.43
1:A:1003:LYS:CG	1:A:1003:LYS:CE	2.88	0.43
1:A:1328:TYR:CG	1:A:1329:THR:N	2.87	0.43
2:B:69:LEU:HD12	2:B:90:ILE:O	2.19	0.43
2:B:128:LEU:O	2:B:167:ILE:N	2.48	0.43
2:B:658:ILE:O	2:B:658:ILE:HG22	2.17	0.43
3:C:69:LEU:O	8:J:6:ARG:NH2	2.42	0.43
4:E:79:TRP:HE1	4:E:81:GLU:HB2	1.83	0.43
6:H:8:ASP:CG	6:H:9:ILE:H	2.25	0.43
9:K:28:PRO:O	9:K:29:ASN:CB	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:59:GLY:C	1:A:60:SER:OG	2.62	0.43
1:A:606:LEU:HD22	1:A:614:PHE:HE2	1.83	0.43
2:B:654:ARG:N	2:B:657:HIS:HD2	2.15	0.43
3:C:67:LEU:HD11	3:C:155:LEU:CD1	2.49	0.43
3:C:259:LEU:C	3:C:261:ALA:H	2.26	0.43
5:F:119:ARG:HH11	5:F:119:ARG:CG	2.31	0.43
6:H:11:GLN:CG	6:H:11:GLN:CA	2.86	0.43
1:A:412:ARG:HH11	1:A:412:ARG:HD3	1.54	0.43
1:A:523:ILE:CB	1:A:622:VAL:HG13	2.44	0.43
1:A:543:LEU:HD11	1:A:547:LEU:HD11	1.99	0.43
1:A:585:GLY:C	1:A:586:ILE:HD12	2.43	0.43
1:A:636:GLU:CD	1:A:962:ARG:CD	2.89	0.43
1:A:695:LYS:CD	1:A:695:LYS:CB	2.87	0.43
1:A:1287:TYR:CD1	1:A:1305:VAL:HG21	2.53	0.43
2:B:99:LYS:HB3	2:B:100:PRO:CD	2.49	0.43
2:B:502:ILE:CB	2:B:502:ILE:C	2.81	0.43
2:B:502:ILE:CA	2:B:502:ILE:CG1	2.88	0.43
2:B:648:HIS:HB2	2:B:649:LYS:H	1.38	0.43
2:B:658:ILE:O	2:B:658:ILE:CG2	2.65	0.43
2:B:789:MET:HE2	2:B:965:LYS:HB3	2.00	0.43
2:B:824:ILE:HD11	8:J:45:CYS:HB2	1.99	0.43
2:B:976:ILE:HD12	2:B:976:ILE:N	2.33	0.43
2:B:1065:GLN:HE21	2:B:1069:PHE:H	1.65	0.43
3:C:115:SER:O	3:C:118:LEU:HB2	2.19	0.43
8:J:1:MET:HG3	8:J:60:PHE:HE2	1.83	0.43
9:K:58:PHE:CD2	9:K:74:ARG:HG2	2.54	0.43
1:A:679:ILE:CD1	1:A:729:ALA:HA	2.47	0.43
1:A:752:LYS:CE	2:B:1019:SER:HB2	2.43	0.43
1:A:926:GLN:O	1:A:926:GLN:CG	2.66	0.43
3:C:31:ASN:O	3:C:34:ARG:HB3	2.17	0.43
3:C:44:LEU:HB2	3:C:77:ILE:HD12	1.99	0.43
4:E:131:THR:CB	4:E:131:THR:N	2.68	0.43
6:H:9:ILE:HA	6:H:55:LEU:O	2.18	0.43
8:J:32:GLU:CD	8:J:32:GLU:H	2.26	0.43
8:J:48:ARG:C	8:J:48:ARG:CD	2.92	0.43
1:A:1409:LEU:CD1	1:A:1409:LEU:CD2	2.79	0.43
2:B:136:THR:CB	2:B:136:THR:C	2.83	0.43
2:B:889:THR:HG22	2:B:891:ASP:OD2	2.19	0.43
2:B:1073:TYR:HD2	2:B:1078:GLY:O	2.02	0.43
3:C:148:ARG:HH12	8:J:64:ASN:CB	2.31	0.43
3:C:244:VAL:O	3:C:245:VAL:C	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:100:GLN:CD	5:F:100:GLN:CB	2.84	0.43
10:L:49:LYS:CG	10:L:49:LYS:CA	2.86	0.43
1:A:84:ILE:HD12	1:A:84:ILE:C	2.44	0.43
1:A:270:LEU:O	1:A:274:ILE:N	2.35	0.43
1:A:423:ASP:CG	1:A:423:ASP:O	2.62	0.43
1:A:557:ASP:OD1	1:A:557:ASP:C	2.60	0.43
1:A:673:GLY:N	1:A:674:PRO:HD2	2.33	0.43
1:A:1279:ILE:HD11	1:A:1312:ASN:N	2.33	0.43
2:B:121:ASN:N	2:B:121:ASN:HD22	2.17	0.43
2:B:912:ILE:O	2:B:938:SER:CB	2.67	0.43
2:B:941:LEU:O	2:B:942:ARG:C	2.61	0.43
2:B:961:LEU:CG	2:B:961:LEU:HB3	2.19	0.43
4:E:11:ARG:HH11	4:E:11:ARG:HD2	1.55	0.43
4:E:44:ALA:CB	4:E:45:LYS:N	2.82	0.43
6:H:81:PRO:CB	6:H:82:PRO:HD3	2.49	0.43
6:H:104:PHE:CA	6:H:105:GLU:N	2.69	0.43
10:L:34:CYS:HB2	10:L:51:CYS:HB3	1.94	0.43
1:A:407:ARG:CD	1:A:413:ILE:HD11	2.46	0.43
1:A:567:LYS:CG	6:H:95:TYR:HA	2.48	0.43
1:A:1236:LEU:C	1:A:1237:ILE:HD12	2.44	0.43
2:B:130:VAL:HG22	2:B:167:ILE:CD1	2.45	0.43
2:B:199:MET:HE3	2:B:488:TYR:CE1	2.53	0.43
2:B:999:MET:CE	2:B:999:MET:HG2	2.30	0.43
3:C:163:ILE:HA	3:C:163:ILE:HD13	1.32	0.43
3:C:252:GLN:HA	9:K:95:ILE:HD13	2.01	0.43
4:E:124:VAL:N	4:E:125:PRO:CD	2.82	0.43
4:E:161:LYS:NZ	4:E:193:GLY:O	2.52	0.43
6:H:89:LEU:HB3	6:H:91:ASP:OD1	2.19	0.43
10:L:44:ASP:O	10:L:45:ALA:CB	2.67	0.43
1:A:202:LEU:CD2	1:A:202:LEU:CB	2.87	0.42
1:A:596:THR:CG2	1:A:597:LEU:N	2.82	0.42
1:A:1169:ILE:HD12	1:A:1229:SER:HA	2.01	0.42
2:B:270:LYS:NZ	2:B:270:LYS:HD2	2.26	0.42
2:B:655:LYS:HA	2:B:658:ILE:HD12	2.01	0.42
6:H:28:ALA:HB3	6:H:38:LEU:HB3	2.01	0.42
10:L:38:LEU:O	10:L:39:SER:CB	2.58	0.42
1:A:690:VAL:HG13	1:A:718:VAL:HG22	2.01	0.42
1:A:868:TYR:HE1	1:A:1064:VAL:HG13	1.84	0.42
2:B:273:LEU:HD13	2:B:276:ILE:CD1	2.49	0.42
2:B:307:ASP:C	2:B:309:GLN:N	2.74	0.42
2:B:404:LYS:HD3	2:B:404:LYS:HA	1.74	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:521:LEU:HD23	2:B:521:LEU:HA	1.65	0.42
2:B:680:THR:HG22	2:B:682:SER:N	2.22	0.42
3:C:6:PRO:HB2	9:K:101:LEU:HD23	2.01	0.42
3:C:97:VAL:CG1	3:C:98:VAL:N	2.80	0.42
3:C:183:TRP:CE2	3:C:207:CYS:HB3	2.54	0.42
9:K:33:ILE:HD13	9:K:87:LEU:HD22	2.01	0.42
10:L:61:THR:CG2	10:L:61:THR:OG1	2.53	0.42
1:A:53:LEU:HD23	1:A:54:ASN:N	2.35	0.42
1:A:768:GLN:NE2	1:A:816:HIS:HA	2.34	0.42
1:A:786:HIS:HA	2:B:703:ILE:O	2.19	0.42
1:A:968:GLN:HA	1:A:973:ILE:HD12	2.00	0.42
2:B:25:ILE:CB	2:B:658:ILE:HD11	2.49	0.42
2:B:524:PRO:HG3	2:B:748:ILE:HD13	2.02	0.42
2:B:723:VAL:CA	2:B:723:VAL:CG2	2.91	0.42
2:B:830:TYR:CE1	2:B:1000:PRO:HB3	2.55	0.42
2:B:871:THR:CA	2:B:871:THR:CG2	2.80	0.42
2:B:1006:ILE:HD12	2:B:1006:ILE:N	2.35	0.42
3:C:29:MET:HE2	3:C:29:MET:HB2	1.91	0.42
4:E:61:GLN:HG3	4:E:62:ALA:N	2.34	0.42
4:E:169:ARG:HD3	5:F:140:ASP:CG	2.40	0.42
5:F:74:ILE:HD13	5:F:144:GLU:HG2	2.01	0.42
5:F:76:LYS:O	5:F:79:ARG:HD2	2.19	0.42
9:K:55:LYS:HB2	9:K:81:TYR:HE1	1.83	0.42
9:K:83:PRO:O	9:K:84:LYS:C	2.59	0.42
1:A:99:ILE:HG13	1:A:234:MET:HE3	2.01	0.42
1:A:705:LYS:CB	1:A:705:LYS:HA	2.24	0.42
1:A:875:ALA:HB2	1:A:1366:ARG:HD3	2.01	0.42
1:A:999:VAL:HG12	1:A:1000:LEU:HG	2.01	0.42
1:A:1006:ILE:HD11	4:E:163:GLU:HG2	2.00	0.42
1:A:1348:LEU:O	1:A:1352:VAL:HG23	2.19	0.42
2:B:510:LYS:N	2:B:511:PRO:HD3	2.34	0.42
2:B:760:ASP:N	2:B:760:ASP:OD1	2.51	0.42
3:C:82:TYR:C	3:C:84:ARG:N	2.76	0.42
3:C:116:LYS:C	3:C:118:LEU:H	2.27	0.42
4:E:65:THR:O	4:E:69:ILE:HG13	2.17	0.42
4:E:124:VAL:HB	4:E:125:PRO:HD3	2.02	0.42
9:K:98:LEU:O	9:K:99:GLY:C	2.61	0.42
1:A:608:ILE:HG13	1:A:613:ILE:HD13	2.02	0.42
1:A:641:VAL:O	1:A:642:CYS:C	2.59	0.42
1:A:1408:ILE:O	1:A:1408:ILE:HG22	2.20	0.42
2:B:69:LEU:C	2:B:70:ILE:HD12	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:108:VAL:CG2	2:B:108:VAL:CA	2.88	0.42
2:B:817:LEU:N	2:B:818:PRO:HD3	2.34	0.42
4:E:72:PHE:HA	4:E:73:PRO:HD3	1.82	0.42
4:E:87:SER:HB2	4:E:115:ASN:OD1	2.19	0.42
7:I:10:CYS:O	7:I:11:ASN:CB	2.60	0.42
9:K:46:ILE:HG22	9:K:50:LEU:CD1	2.50	0.42
9:K:90:ALA:O	9:K:91:CYS:C	2.61	0.42
1:A:92:HIS:HD2	1:A:94:GLY:N	2.18	0.42
1:A:547:LEU:HB3	9:K:58:PHE:CE1	2.55	0.42
1:A:567:LYS:O	1:A:568:PRO:C	2.63	0.42
1:A:582:ILE:H	1:A:582:ILE:CD1	2.23	0.42
1:A:619:LYS:NZ	1:A:619:LYS:CD	2.67	0.42
1:A:722:LEU:HD22	1:A:799:PHE:CD1	2.55	0.42
1:A:785:PRO:HB2	2:B:701:ILE:CD1	2.50	0.42
1:A:964:ILE:HD12	1:A:1037:LEU:HD11	2.02	0.42
1:A:1133:LEU:HB3	1:A:1133:LEU:HD22	1.99	0.42
1:A:1281:ARG:CD	1:A:1281:ARG:HB2	2.47	0.42
1:A:1293:SER:HB2	1:A:1294:PRO:HD2	2.02	0.42
1:A:1340:GLY:HA2	4:E:183:PRO:HD2	2.02	0.42
2:B:408:LEU:HD11	2:B:545:ILE:CD1	2.50	0.42
2:B:592:ASN:O	2:B:594:ALA:N	2.50	0.42
2:B:839:MET:HE2	2:B:990:ILE:HD13	2.02	0.42
3:C:181:ASP:CG	3:C:185:LYS:H	2.25	0.42
4:E:78:LEU:HD11	4:E:109:ILE:CD1	2.49	0.42
7:I:107:SER:O	7:I:109:ILE:HD12	2.20	0.42
7:I:115:LYS:NZ	7:I:115:LYS:CD	2.73	0.42
8:J:2:ILE:HG22	8:J:3:VAL:HG23	2.01	0.42
1:A:427:GLN:HB2	1:A:430:TRP:NE1	2.33	0.42
1:A:674:PRO:HA	1:A:677:ARG:NH1	2.34	0.42
1:A:1322:ILE:C	1:A:1322:ILE:HD12	2.45	0.42
1:A:1446:ASP:HB3	5:F:131:PRO:C	2.44	0.42
2:B:310:MET:O	2:B:313:MET:HB2	2.20	0.42
2:B:564:GLU:OE2	2:B:591:ARG:CD	2.68	0.42
2:B:996:ARG:CD	2:B:996:ARG:CB	2.79	0.42
3:C:262:LEU:HA	3:C:262:LEU:HD23	1.65	0.42
4:E:61:GLN:HG3	4:E:62:ALA:H	1.84	0.42
5:F:111:LEU:C	5:F:113:GLY:H	2.27	0.42
1:A:213:HIS:CB	1:A:213:HIS:N	2.71	0.42
1:A:355:GLY:HA3	1:A:482:PHE:CE1	2.55	0.42
1:A:1120:LEU:O	1:A:1121:GLU:C	2.61	0.42
1:A:1129:GLU:O	1:A:1133:LEU:HD12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:228:LYS:O	2:B:261:ARG:NH2	2.39	0.42
2:B:1081:LEU:HD12	2:B:1085:ILE:CD1	2.49	0.42
2:B:1153:GLU:HB3	2:B:1155:SER:HB3	2.02	0.42
3:C:56:THR:HG23	3:C:57:VAL:H	1.82	0.42
6:H:56:THR:HG21	6:H:145:ARG:HE	1.85	0.42
1:A:64:ASN:CG	1:A:66:LYS:HB3	2.45	0.42
2:B:601:ARG:HH11	2:B:601:ARG:HD2	1.62	0.42
2:B:729:ILE:H	2:B:729:ILE:CD1	2.28	0.42
2:B:955:THR:O	2:B:962:LYS:HA	2.19	0.42
3:C:148:ARG:O	3:C:149:LYS:C	2.63	0.42
4:E:58:MET:O	4:E:59:SER:O	2.37	0.42
1:A:1151:GLU:HB3	7:I:42:LEU:CD1	2.50	0.42
2:B:44:VAL:O	2:B:45:SER:C	2.62	0.42
2:B:120:ARG:NH2	2:B:956:THR:O	2.44	0.42
2:B:556:THR:O	2:B:557:PHE:C	2.61	0.42
2:B:773:MET:O	2:B:775:LYS:N	2.53	0.42
2:B:1025:HIS:CE1	2:B:1090:THR:HG21	2.45	0.42
3:C:267:GLN:CA	3:C:268:ASP:N	2.67	0.42
4:E:63:ASN:C	4:E:64:PRO:O	2.63	0.42
4:E:100:ILE:HG23	4:E:105:PHE:HB2	2.02	0.42
4:E:157:SER:O	4:E:160:GLU:HB2	2.19	0.42
4:E:191:LYS:O	4:E:192:ARG:C	2.54	0.42
5:F:109:VAL:CG1	5:F:123:LYS:HD3	2.50	0.42
7:I:55:THR:CG2	7:I:55:THR:HB	2.30	0.42
10:L:45:ALA:CB	10:L:45:ALA:HA	2.24	0.42
1:A:399:HIS:CD2	1:A:400:PRO:N	2.88	0.41
1:A:562:THR:CG2	6:H:98:TYR:CD2	3.03	0.41
2:B:211:VAL:O	2:B:211:VAL:HG13	2.19	0.41
2:B:1163:CYS:HB2	2:B:1182:CYS:CB	2.49	0.41
3:C:31:ASN:OD1	3:C:34:ARG:HD3	2.20	0.41
3:C:147:LEU:CB	3:C:147:LEU:CD2	2.76	0.41
3:C:199:LYS:CG	3:C:199:LYS:CE	2.94	0.41
4:E:30:ILE:HG22	4:E:34:GLU:HB3	2.01	0.41
4:E:43:LYS:CG	4:E:43:LYS:CA	2.85	0.41
4:E:93:MET:O	4:E:97:VAL:HG23	2.20	0.41
4:E:115:ASN:OD1	4:E:115:ASN:N	2.52	0.41
1:A:657:LEU:HD21	2:B:829:CYS:CB	2.50	0.41
1:A:974:ASP:HB3	6:H:136:LYS:HE2	2.02	0.41
2:B:121:ASN:HD21	2:B:965:LYS:HZ1	1.68	0.41
1:A:58:LEU:HB2	1:A:59:GLY:H	1.63	0.41
1:A:63:ARG:HA	1:A:74:MET:SD	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:72:GLU:CG	2:B:1175:LEU:HD12	2.49	0.41
1:A:296:LEU:HD12	1:A:296:LEU:HA	1.71	0.41
1:A:543:LEU:O	1:A:547:LEU:HG	2.19	0.41
1:A:566:ILE:N	1:A:566:ILE:CD1	2.83	0.41
1:A:700:ASN:O	7:I:115:LYS:HE3	2.20	0.41
1:A:785:PRO:HG2	2:B:703:ILE:HD12	2.02	0.41
1:A:903:ASN:HD22	1:A:904:THR:N	2.09	0.41
2:B:225:VAL:HG12	2:B:226:PHE:N	2.35	0.41
2:B:458:LYS:CD	2:B:458:LYS:CB	2.91	0.41
2:B:817:LEU:HA	2:B:817:LEU:HD23	1.91	0.41
2:B:914:LYS:HD2	2:B:937:ALA:O	2.19	0.41
3:C:183:TRP:HE1	3:C:207:CYS:HB3	1.83	0.41
6:H:81:PRO:HB2	6:H:82:PRO:HD2	1.99	0.41
6:H:97:MET:HE1	6:H:118:PHE:CD1	2.55	0.41
1:A:34:LYS:CG	1:A:83:HIS:CE1	3.03	0.41
1:A:511:ILE:HD12	1:A:511:ILE:HG23	1.59	0.41
1:A:608:ILE:CG2	1:A:609:ASP:N	2.82	0.41
1:A:919:ILE:HD13	1:A:983:ILE:CD1	2.49	0.41
1:A:936:LEU:HD23	1:A:936:LEU:HA	1.89	0.41
1:A:1428:VAL:HG12	1:A:1429:ILE:N	2.29	0.41
2:B:173:MET:HB2	2:B:173:MET:HE3	1.86	0.41
2:B:230:ALA:CB	2:B:230:ALA:C	2.87	0.41
2:B:274:PRO:HG3	2:B:359:GLU:HB3	2.03	0.41
2:B:773:MET:C	2:B:775:LYS:N	2.79	0.41
2:B:952:VAL:HG22	2:B:966:VAL:HG13	2.03	0.41
6:H:9:ILE:CB	6:H:9:ILE:C	2.79	0.41
6:H:128:ASN:OD1	6:H:131:ASN:OD1	2.38	0.41
7:I:50:THR:O	7:I:50:THR:HG23	2.19	0.41
1:A:709:THR:O	1:A:710:LEU:C	2.60	0.41
1:A:896:ARG:NH2	1:A:1030:ARG:HH12	2.17	0.41
1:A:1194:ARG:CG	1:A:1194:ARG:HH11	2.29	0.41
2:B:68:THR:C	2:B:69:LEU:HG	2.45	0.41
2:B:261:ARG:O	2:B:267:ARG:HD3	2.20	0.41
2:B:591:ARG:HH11	2:B:591:ARG:HG2	1.86	0.41
2:B:606:LYS:HA	2:B:686:ASN:O	2.21	0.41
2:B:642:ASP:HA	2:B:643:ASP:HA	1.15	0.41
2:B:643:ASP:O	2:B:644:GLU:CG	2.69	0.41
2:B:655:LYS:O	2:B:656:GLY:C	2.56	0.41
3:C:24:ASN:O	3:C:24:ASN:CG	2.62	0.41
3:C:116:LYS:CE	3:C:116:LYS:CG	2.90	0.41
9:K:37:LYS:C	9:K:38:GLU:HG2	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:L:27:LEU:O	10:L:29:TYR:N	2.54	0.41
10:L:30:ILE:O	10:L:57:LEU:N	2.52	0.41
1:A:353:ILE:O	1:A:353:ILE:HG13	2.21	0.41
1:A:752:LYS:NZ	2:B:1019:SER:HB2	2.35	0.41
2:B:70:ILE:HB	2:B:429:PHE:HE1	1.85	0.41
2:B:313:MET:CE	2:B:386:LEU:HD22	2.51	0.41
2:B:606:LYS:CD	2:B:606:LYS:NZ	2.66	0.41
2:B:863:GLU:C	2:B:864:LYS:O	2.64	0.41
3:C:176:ILE:C	3:C:177:GLU:O	2.57	0.41
3:C:205:LYS:H	3:C:205:LYS:HG3	1.86	0.41
3:C:248:ILE:O	3:C:248:ILE:HG22	2.20	0.41
4:E:93:MET:HE3	4:E:116:ILE:HG21	2.03	0.41
4:E:137:GLU:O	4:E:138:ALA:C	2.62	0.41
5:F:111:LEU:CD2	5:F:111:LEU:CB	2.85	0.41
9:K:95:ILE:CG2	9:K:95:ILE:C	2.94	0.41
1:A:189:ARG:O	1:A:190:ALA:CB	2.69	0.41
1:A:295:LEU:CD2	1:A:295:LEU:CD1	2.86	0.41
1:A:441:PRO:O	1:A:441:PRO:HG2	2.21	0.41
1:A:535:THR:HG22	1:A:616:VAL:HG13	2.03	0.41
1:A:867:ILE:CD1	1:A:1000:LEU:HD21	2.48	0.41
1:A:1331:SER:O	1:A:1332:PHE:C	2.63	0.41
2:B:412:LEU:HD23	2:B:412:LEU:HA	1.93	0.41
4:E:114:ASN:N	4:E:114:ASN:OD1	2.53	0.41
6:H:55:LEU:HD22	6:H:144:ILE:HG23	2.03	0.41
6:H:103:LYS:CD	6:H:105:GLU:OE2	2.68	0.41
9:K:36:GLU:O	9:K:37:LYS:C	2.64	0.41
1:A:70:CYS:SG	1:A:80:HIS:CE1	2.99	0.41
1:A:547:LEU:HA	1:A:547:LEU:HD23	1.95	0.41
1:A:567:LYS:CD	6:H:95:TYR:CB	2.98	0.41
1:A:903:ASN:ND2	1:A:904:THR:N	2.65	0.41
2:B:175:ARG:HH11	2:B:175:ARG:HD3	1.74	0.41
2:B:331:LEU:HD23	2:B:331:LEU:HA	2.01	0.41
2:B:648:HIS:NE2	2:B:711:GLU:HA	2.35	0.41
2:B:864:LYS:HG3	2:B:865:LYS:N	2.35	0.41
3:C:76:ASP:OD2	3:C:128:ASN:N	2.43	0.41
4:E:54:GLN:CG	4:E:54:GLN:CA	2.87	0.41
4:E:79:TRP:CB	4:E:105:PHE:CD1	2.91	0.41
4:E:129:PRO:CG	4:E:129:PRO:N	2.74	0.41
5:F:128:LYS:NZ	5:F:149:GLU:O	2.50	0.41
8:J:6:ARG:HD2	8:J:6:ARG:HH11	1.57	0.41
10:L:58:LYS:O	10:L:59:ALA:O	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:532:ARG:HD3	1:A:749:ALA:HB2	2.02	0.41
1:A:566:ILE:CD1	6:H:96:VAL:HG12	2.33	0.41
1:A:635:ARG:HH11	1:A:635:ARG:HD3	1.65	0.41
1:A:896:ARG:NH2	1:A:1030:ARG:NH1	2.69	0.41
1:A:1096:SER:O	1:A:1099:PRO:HD2	2.21	0.41
1:A:1202:MET:CE	1:A:1208:THR:C	2.94	0.41
1:A:1203:ASN:C	1:A:1205:LYS:H	2.28	0.41
1:A:1204:ASP:OD1	1:A:1205:LYS:HE2	2.21	0.41
1:A:1224:LEU:HD23	1:A:1226:VAL:HG21	2.03	0.41
2:B:89:GLU:N	2:B:135:ARG:O	2.54	0.41
2:B:193:LYS:CD	2:B:193:LYS:CB	2.81	0.41
2:B:418:LYS:CD	2:B:418:LYS:CB	2.87	0.41
2:B:582:VAL:O	2:B:583:ASN:C	2.61	0.41
2:B:730:ARG:HH11	2:B:730:ARG:HD2	1.68	0.41
2:B:816:GLU:C	2:B:818:PRO:HD3	2.46	0.41
2:B:892:LYS:HA	10:L:63:ARG:HH12	1.86	0.41
2:B:893:LEU:HD11	2:B:910:VAL:HG11	2.02	0.41
2:B:979:LYS:HE3	2:B:987:LYS:HD2	2.02	0.41
3:C:6:PRO:HB3	3:C:25:VAL:HG13	2.03	0.41
3:C:11:ARG:O	3:C:12:GLU:CG	2.67	0.41
3:C:33:LEU:O	3:C:37:MET:HG3	2.21	0.41
3:C:142:VAL:HG12	3:C:143:LEU:C	2.45	0.41
3:C:147:LEU:CG	3:C:147:LEU:HB2	2.21	0.41
4:E:161:LYS:NZ	4:E:172:GLU:OE2	2.53	0.41
9:K:65:HIS:CD2	9:K:65:HIS:C	2.96	0.41
10:L:26:THR:CB	10:L:27:LEU:N	2.84	0.41
1:A:55:ASP:C	1:A:57:ARG:N	2.67	0.41
1:A:1209:MET:SD	1:A:1236:LEU:HD22	2.61	0.41
1:A:1225:PHE:C	1:A:1226:VAL:CG2	2.93	0.41
2:B:63:ILE:CD1	2:B:92:PHE:HB2	2.50	0.41
2:B:130:VAL:N	2:B:167:ILE:HD11	2.23	0.41
2:B:169:ARG:CG	2:B:454:THR:HG21	2.42	0.41
2:B:180:TYR:C	2:B:180:TYR:CB	2.83	0.41
2:B:424:LEU:HD21	2:B:428:ILE:HD11	2.03	0.41
2:B:660:LYS:CE	2:B:660:LYS:HG3	2.44	0.41
2:B:701:ILE:CD1	2:B:701:ILE:C	2.94	0.41
2:B:936:ASP:OD2	2:B:936:ASP:C	2.63	0.41
2:B:986:GLN:CD	2:B:1020:ARG:NH2	2.76	0.41
4:E:98:ILE:CA	4:E:98:ILE:CG2	2.89	0.41
5:F:81:THR:HG22	5:F:136:ARG:HH11	1.77	0.41
6:H:32:THR:HB	6:H:33:GLN:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I:89:GLN:C	7:I:90:GLN:O	2.59	0.41
1:A:830:LYS:O	1:A:831:THR:C	2.57	0.40
1:A:912:LEU:HD23	1:A:912:LEU:N	2.36	0.40
1:A:1172:LEU:O	1:A:1173:HIS:CG	2.74	0.40
1:A:1203:ASN:O	1:A:1204:ASP:C	2.64	0.40
2:B:523:CYS:HA	2:B:524:PRO:HD3	1.84	0.40
2:B:1073:TYR:CE2	2:B:1080:LYS:HG3	2.55	0.40
2:B:1200:ALA:O	2:B:1204:PHE:CD1	2.74	0.40
4:E:167:ARG:HD3	4:E:167:ARG:HA	1.83	0.40
6:H:95:TYR:C	6:H:95:TYR:HD2	2.28	0.40
7:I:87:GLN:O	7:I:88:SER:C	2.59	0.40
1:A:67:CYS:HB2	1:A:70:CYS:SG	2.62	0.40
1:A:219:PHE:CD1	1:A:219:PHE:C	2.99	0.40
1:A:247:ARG:HA	1:A:248:PRO:HD3	1.94	0.40
1:A:405:VAL:C	1:A:406:ILE:HD12	2.46	0.40
1:A:506:ALA:HB1	1:A:508:PRO:HD2	2.02	0.40
1:A:929:LEU:HA	1:A:929:LEU:HD23	1.93	0.40
1:A:1202:MET:HE1	1:A:1208:THR:C	2.46	0.40
1:A:1225:PHE:CG	1:A:1225:PHE:CA	2.95	0.40
2:B:344:LYS:CG	2:B:344:LYS:CE	2.92	0.40
2:B:419:THR:O	2:B:419:THR:CG2	2.66	0.40
2:B:510:LYS:NZ	2:B:510:LYS:CD	2.69	0.40
2:B:737:THR:O	2:B:738:PHE:C	2.63	0.40
2:B:1002:THR:O	2:B:1005:GLY:N	2.35	0.40
2:B:1159:ARG:NE	2:B:1161:HIS:CE1	2.89	0.40
2:B:1165:ILE:CB	2:B:1165:ILE:C	2.84	0.40
3:C:231:ASN:C	3:C:231:ASN:OD1	2.64	0.40
6:H:12:VAL:O	6:H:12:VAL:HG12	2.21	0.40
10:L:26:THR:HG22	10:L:27:LEU:N	2.28	0.40
1:A:93:VAL:HG23	1:A:304:MET:HE3	2.03	0.40
1:A:295:LEU:HG	1:A:299:HIS:CE1	2.56	0.40
1:A:1102:LYS:O	1:A:1106:ASN:HB2	2.21	0.40
1:A:1224:LEU:HG	1:A:1225:PHE:H	1.84	0.40
1:A:1434:ALA:C	1:A:1436:ILE:H	2.28	0.40
2:B:41:LYS:CD	2:B:41:LYS:NZ	2.78	0.40
2:B:187:SER:O	2:B:188:ASP:C	2.64	0.40
2:B:258:LEU:HB2	2:B:385:LEU:HD21	2.02	0.40
2:B:294:ASP:HB2	7:I:12:ASN:HA	2.04	0.40
3:C:8:VAL:O	3:C:9:LYS:HB2	2.20	0.40
3:C:73:GLN:CG	3:C:73:GLN:OE1	2.48	0.40
3:C:116:LYS:CD	3:C:116:LYS:HZ2	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:147:LEU:HD13	3:C:151:GLN:O	2.21	0.40
4:E:37:LEU:HA	4:E:38:PRO:HD2	1.86	0.40
6:H:95:TYR:O	6:H:143:LEU:HA	2.22	0.40
6:H:103:LYS:CD	6:H:105:GLU:CD	2.94	0.40
10:L:47:ARG:CG	10:L:48:CYS:N	2.83	0.40
1:A:59:GLY:O	1:A:60:SER:OG	2.37	0.40
1:A:1226:VAL:HG12	1:A:1227:ILE:N	2.28	0.40
2:B:55:VAL:HG12	2:B:56:ASP:N	2.34	0.40
2:B:89:GLU:HB3	2:B:135:ARG:O	2.22	0.40
2:B:416:LEU:CD2	2:B:416:LEU:HG	2.26	0.40
3:C:142:VAL:CG1	3:C:143:LEU:N	2.73	0.40
6:H:76:THR:O	6:H:76:THR:CG2	2.66	0.40
6:H:136:LYS:CB	6:H:136:LYS:N	2.73	0.40
9:K:43:GLY:HA2	9:K:71:PHE:CE1	2.57	0.40
1:A:92:HIS:HD2	1:A:94:GLY:H	1.70	0.40
1:A:117:GLU:O	1:A:118:HIS:C	2.60	0.40
1:A:166:GLY:O	1:A:167:CYS:HB3	2.21	0.40
1:A:351:THR:HG23	2:B:1103:ILE:HA	2.03	0.40
1:A:487:MET:CG	1:A:487:MET:HE3	2.31	0.40
1:A:928:LEU:HA	1:A:928:LEU:HD23	1.79	0.40
1:A:1347:ALA:O	1:A:1348:LEU:C	2.63	0.40
2:B:90:ILE:N	2:B:90:ILE:HG13	2.37	0.40
2:B:542:MET:HB3	2:B:542:MET:HE3	1.97	0.40
3:C:71:PRO:HB2	3:C:133:ILE:CD1	2.32	0.40

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

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:434:ARG:O	2:B:465:ASN:ND2[2_655]	2.11	0.09
2:B:1223:ASP:OD1	4:E:1:MET:CE[8_455]	2.17	0.03

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1332/1733 (77%)	1160 (87%)	113 (8%)	59 (4%)	2	13
2	B	1071/1224 (88%)	897 (84%)	131 (12%)	43 (4%)	2	15
3	C	264/318 (83%)	218 (83%)	36 (14%)	10 (4%)	2	16
4	E	213/215 (99%)	180 (84%)	20 (9%)	13 (6%)	1	9
5	F	81/155 (52%)	71 (88%)	8 (10%)	2 (2%)	4	23
6	H	129/146 (88%)	85 (66%)	21 (16%)	23 (18%)	0	0
7	I	119/122 (98%)	108 (91%)	8 (7%)	3 (2%)	4	23
8	J	62/70 (89%)	58 (94%)	4 (6%)	0	100	100
9	K	112/120 (93%)	98 (88%)	10 (9%)	4 (4%)	2	17
10	L	44/70 (63%)	26 (59%)	11 (25%)	7 (16%)	0	1
All	All	3427/4173 (82%)	2901 (85%)	362 (11%)	164 (5%)	2	12

All (164) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	35	ILE
1	A	43	GLU
1	A	45	GLN
1	A	47	ARG
1	A	56	PRO
1	A	59	GLY
1	A	62	ASP
1	A	65	LEU
1	A	72	GLU
1	A	120	GLU
1	A	155	GLU
1	A	156	ASP
1	A	157	ASP
1	A	190	ALA
1	A	193	ASP
1	A	326	ARG
1	A	400	PRO
1	A	408	ASP
1	A	418	SER
1	A	567	LYS
1	A	915	SER
1	A	1080	THR

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Mol	Chain	Res	Type
1	A	1221	LYS
1	A	1448	GLU
2	B	66	ASP
2	B	109	THR
2	B	165	VAL
2	B	230	ALA
2	B	645	SER
2	B	646	LEU
2	B	733	HIS
2	B	864	LYS
2	B	879	ARG
2	B	887	HIS
2	B	957	ASN
2	B	1097	HIS
2	B	1108	ARG
2	B	1128	LEU
2	B	1167	GLY
3	C	4	GLU
3	C	9	LYS
3	C	206	ASN
3	C	231	ASN
4	E	59	SER
4	E	64	PRO
5	F	73	ALA
6	H	32	THR
6	H	52	GLN
6	H	53	ASP
6	H	78	SER
6	H	90	ALA
6	H	104	PHE
6	H	105	GLU
6	H	116	TYR
6	H	136	LYS
6	H	139	ASN
7	I	4	PHE
9	K	111	LEU
10	L	28	LYS
10	L	39	SER
10	L	45	ALA
10	L	50	ASP
1	A	32	VAL
1	A	57	ARG

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Mol	Chain	Res	Type
1	A	60	SER
1	A	69	THR
1	A	74	MET
1	A	94	GLY
1	A	286	HIS
1	A	464	PRO
1	A	465	TYR
1	A	707	GLY
1	A	1204	ASP
2	B	108	VAL
2	B	266	ALA
2	B	424	LEU
2	B	432	MET
2	B	436	VAL
2	B	451	LYS
2	B	831	SER
2	B	1223	ASP
3	C	10	ILE
3	C	209	TYR
4	E	45	LYS
4	E	56	LYS
4	E	123	LEU
4	E	126	SER
6	H	5	LEU
6	H	18	GLY
6	H	19	ARG
6	H	77	ARG
6	H	81	PRO
6	H	82	PRO
6	H	86	ASP
6	H	107	VAL
6	H	128	ASN
7	I	79	HIS
9	K	99	GLY
10	L	58	LYS
1	A	104	GLU
1	A	885	THR
1	A	1128	GLN
1	A	1200	ALA
2	B	124	TYR
2	B	137	TYR
2	B	262	GLU

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Mol	Chain	Res	Type
2	B	891	ASP
2	B	940	PRO
2	B	1105	ALA
2	B	1155	SER
2	B	1189	ILE
2	B	1221	SER
3	C	125	MET
3	C	267	GLN
4	E	48	ASP
4	E	50	MET
5	F	111	LEU
6	H	7	ASP
6	H	135	LEU
1	A	64	ASN
1	A	75	ASN
1	A	188	ASP
1	A	196	GLU
1	A	279	LEU
1	A	958	VAL
1	A	1223	ASP
2	B	711	GLU
4	E	118	PRO
9	K	100	ALA
9	K	104	ASN
10	L	46	VAL
1	A	167	CYS
1	A	599	SER
1	A	706	HIS
1	A	1280	GLU
2	B	90	ILE
2	B	452	THR
2	B	1158	PHE
2	B	1220	ARG
4	E	11	ARG
4	E	44	ALA
6	H	85	GLY
7	I	113	ASP
1	A	71	GLN
1	A	1263	ILE
2	B	19	GLU
2	B	105	SER
2	B	865	LYS

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Mol	Chain	Res	Type
3	C	208	GLU
3	C	217	ASP
6	H	89	LEU
10	L	59	ALA
1	A	51	GLY
1	A	158	PRO
1	A	38	PRO
2	B	1214	PRO
1	A	55	ASP
1	A	78	PRO
2	B	130	VAL
2	B	1078	GLY
4	E	53	PRO
4	E	127	ILE
1	A	52	GLY
1	A	1429	ILE

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1181/1520 (78%)	963 (82%)	218 (18%)	1	7
2	B	947/1061 (89%)	777 (82%)	170 (18%)	2	8
3	C	234/274 (85%)	184 (79%)	50 (21%)	1	5
4	E	197/197 (100%)	142 (72%)	55 (28%)	0	2
5	F	73/137 (53%)	61 (84%)	12 (16%)	2	11
6	H	117/128 (91%)	67 (57%)	50 (43%)	0	0
7	I	115/116 (99%)	92 (80%)	23 (20%)	1	6
8	J	59/65 (91%)	45 (76%)	14 (24%)	1	4
9	K	99/102 (97%)	77 (78%)	22 (22%)	1	5
10	L	40/57 (70%)	17 (42%)	23 (58%)	0	0
All	All	3062/3657 (84%)	2425 (79%)	637 (21%)	1	6

All (637) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	4	GLN
1	A	11	LEU
1	A	15	LYS
1	A	21	LEU
1	A	22	PHE
1	A	34	LYS
1	A	36	ARG
1	A	38	PRO
1	A	39	GLU
1	A	41	MET
1	A	42	ASP
1	A	44	THR
1	A	49	LYS
1	A	58	LEU
1	A	60	SER
1	A	65	LEU
1	A	68	GLN
1	A	70	CYS
1	A	74	MET
1	A	84	ILE
1	A	90	VAL
1	A	93	VAL
1	A	98	LYS
1	A	106	VAL
1	A	107	CYS
1	A	110	CYS
1	A	112	LYS
1	A	114	LEU
1	A	120	GLU
1	A	123	ARG
1	A	128	ILE
1	A	129	LYS
1	A	132	LYS
1	A	133	LYS
1	A	138	ILE
1	A	141	LEU
1	A	143	LYS
1	A	144	THR
1	A	145	LYS
1	A	147	VAL
1	A	152	VAL
1	A	156	ASP

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Mol	Chain	Res	Type
1	A	159	THR
1	A	160	GLN
1	A	162	VAL
1	A	163	SER
1	A	167	CYS
1	A	174	ILE
1	A	175	ARG
1	A	176	LYS
1	A	184	SER
1	A	186	LYS
1	A	191	THR
1	A	195	ASP
1	A	198	GLU
1	A	201	VAL
1	A	205	GLU
1	A	206	GLU
1	A	226	GLU
1	A	239	LEU
1	A	247	ARG
1	A	261	ASP
1	A	263	THR
1	A	265	LYS
1	A	270	LEU
1	A	274	ILE
1	A	275	SER
1	A	326	ARG
1	A	346	ASP
1	A	351	THR
1	A	354	SER
1	A	368	LYS
1	A	383	TYR
1	A	385	ILE
1	A	412	ARG
1	A	416	ARG
1	A	419	LYS
1	A	424	ILE
1	A	451	HIS
1	A	452	LYS
1	A	461	LYS
1	A	466	SER
1	A	472	LEU
1	A	474	VAL

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Mol	Chain	Res	Type
1	A	475	THR
1	A	493	GLN
1	A	495	GLU
1	A	497	THR
1	A	498	ARG
1	A	504	LEU
1	A	508	PRO
1	A	535	THR
1	A	537	ARG
1	A	543	LEU
1	A	565	ILE
1	A	566	ILE
1	A	571	LEU
1	A	588	LEU
1	A	590	ARG
1	A	597	LEU
1	A	599	SER
1	A	618	GLU
1	A	619	LYS
1	A	620	LYS
1	A	622	VAL
1	A	630	ILE
1	A	635	ARG
1	A	636	GLU
1	A	651	LYS
1	A	666	ILE
1	A	679	ILE
1	A	681	GLU
1	A	682	THR
1	A	683	ILE
1	A	688	LYS
1	A	695	LYS
1	A	703	THR
1	A	705	LYS
1	A	708	MET
1	A	709	THR
1	A	710	LEU
1	A	720	ARG
1	A	728	LYS
1	A	735	VAL
1	A	741	ASN
1	A	744	LYS

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Mol	Chain	Res	Type
1	A	764	CYS
1	A	794	PRO
1	A	810	PRO
1	A	821	ARG
1	A	830	LYS
1	A	831	THR
1	A	843	LYS
1	A	856	THR
1	A	858	ASN
1	A	878	ILE
1	A	879	GLU
1	A	885	THR
1	A	895	LYS
1	A	903	ASN
1	A	907	THR
1	A	909	ASP
1	A	920	LEU
1	A	924	LYS
1	A	973	ILE
1	A	974	ASP
1	A	977	LYS
1	A	982	THR
1	A	1003	LYS
1	A	1006	ILE
1	A	1015	VAL
1	A	1030	ARG
1	A	1055	ARG
1	A	1064	VAL
1	A	1078	GLN
1	A	1081	LEU
1	A	1092	LYS
1	A	1093	LYS
1	A	1096	SER
1	A	1118	VAL
1	A	1120	LEU
1	A	1127	ASP
1	A	1129	GLU
1	A	1130	GLN
1	A	1133	LEU
1	A	1134	ILE
1	A	1138	ILE
1	A	1141	THR

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Mol	Chain	Res	Type
1	A	1146	VAL
1	A	1161	THR
1	A	1165	GLU
1	A	1171	GLN
1	A	1176	LEU
1	A	1187	GLN
1	A	1192	LEU
1	A	1208	THR
1	A	1217	LYS
1	A	1219	THR
1	A	1225	PHE
1	A	1230	GLU
1	A	1235	LYS
1	A	1236	LEU
1	A	1237	ILE
1	A	1239	ARG
1	A	1241	ARG
1	A	1256	GLU
1	A	1258	HIS
1	A	1259	MET
1	A	1260	LEU
1	A	1267	MET
1	A	1268	LEU
1	A	1269	GLU
1	A	1277	GLU
1	A	1280	GLU
1	A	1281	ARG
1	A	1290	LYS
1	A	1291	VAL
1	A	1293	SER
1	A	1299	VAL
1	A	1318	THR
1	A	1325	THR
1	A	1329	THR
1	A	1359	ASP
1	A	1366	ARG
1	A	1372	VAL
1	A	1376	THR
1	A	1377	THR
1	A	1384	VAL
1	A	1405	THR
1	A	1407	GLU

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Mol	Chain	Res	Type
1	A	1418	LEU
1	A	1426	GLU
1	A	1433	MET
1	A	1438	THR
1	A	1445	ILE
1	A	1448	GLU
1	A	1449	SER
1	A	1450	LEU
2	B	18	PHE
2	B	20	ASP
2	B	21	GLU
2	B	22	SER
2	B	25	ILE
2	B	34	ILE
2	B	46	GLN
2	B	63	ILE
2	B	65	GLU
2	B	68	THR
2	B	69	LEU
2	B	70	ILE
2	B	89	GLU
2	B	92	PHE
2	B	98	THR
2	B	102	VAL
2	B	128	LEU
2	B	130	VAL
2	B	134	LYS
2	B	136	THR
2	B	138	GLU
2	B	164	LYS
2	B	167	ILE
2	B	169	ARG
2	B	178	ASN
2	B	179	CYS
2	B	183	GLU
2	B	194	GLU
2	B	199	MET
2	B	228	LYS
2	B	239	GLU
2	B	242	SER
2	B	244	LEU
2	B	248	SER

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Mol	Chain	Res	Type
2	B	251	ILE
2	B	252	SER
2	B	261	ARG
2	B	264	SER
2	B	269	ILE
2	B	272	THR
2	B	283	VAL
2	B	284	ILE
2	B	305	VAL
2	B	313	MET
2	B	343	ILE
2	B	347	LYS
2	B	357	GLN
2	B	364	ILE
2	B	365	THR
2	B	367	LEU
2	B	368	GLU
2	B	373	ARG
2	B	387	LEU
2	B	417	PHE
2	B	418	LYS
2	B	422	LYS
2	B	425	THR
2	B	426	LYS
2	B	434	ARG
2	B	435	THR
2	B	436	VAL
2	B	453	ILE
2	B	463	THR
2	B	466	TRP
2	B	485	ARG
2	B	487	THR
2	B	498	THR
2	B	513	GLN
2	B	522	VAL
2	B	531	GLN
2	B	547	VAL
2	B	549	THR
2	B	550	ASP
2	B	566	LEU
2	B	567	GLU
2	B	572	HIS

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Mol	Chain	Res	Type
2	B	574	SER
2	B	589	VAL
2	B	591	ARG
2	B	595	ARG
2	B	604	ARG
2	B	606	LYS
2	B	612	GLU
2	B	614	SER
2	B	619	ILE
2	B	641	GLU
2	B	648	HIS
2	B	650	GLU
2	B	651	LEU
2	B	652	LYS
2	B	653	VAL
2	B	680	THR
2	B	690	VAL
2	B	691	GLU
2	B	693	ILE
2	B	701	ILE
2	B	706	GLN
2	B	710	LEU
2	B	723	VAL
2	B	730	ARG
2	B	733	HIS
2	B	736	THR
2	B	775	LYS
2	B	787	VAL
2	B	789	MET
2	B	790	ASP
2	B	799	PRO
2	B	806	THR
2	B	838	SER
2	B	839	MET
2	B	860	MET
2	B	864	LYS
2	B	868	MET
2	B	871	THR
2	B	878	GLN
2	B	879	ARG
2	B	880	THR
2	B	881	ASN

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Mol	Chain	Res	Type
2	B	882	THR
2	B	883	LEU
2	B	884	ARG
2	B	889	THR
2	B	895	ASP
2	B	896	ASP
2	B	908	GLU
2	B	911	ILE
2	B	933	SER
2	B	938	SER
2	B	941	LEU
2	B	955	THR
2	B	957	ASN
2	B	958	GLN
2	B	962	LYS
2	B	964	VAL
2	B	971	THR
2	B	974	PRO
2	B	975	GLN
2	B	976	ILE
2	B	983	ARG
2	B	987	LYS
2	B	997	GLU
2	B	999	MET
2	B	1000	PRO
2	B	1007	VAL
2	B	1010	LEU
2	B	1051	THR
2	B	1060	ARG
2	B	1065	GLN
2	B	1077	THR
2	B	1097	HIS
2	B	1099	VAL
2	B	1106	ARG
2	B	1150	ARG
2	B	1152	MET
2	B	1155	SER
2	B	1159	ARG
2	B	1162	ILE
2	B	1165	ILE
2	B	1166	CYS
2	B	1174	LYS

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Mol	Chain	Res	Type
2	B	1175	LEU
2	B	1178	ASN
2	B	1179	GLN
2	B	1183	LYS
2	B	1185	CYS
2	B	1187	ASN
2	B	1211	ASN
2	B	1220	ARG
2	B	1222	ARG
2	B	1224	PHE
3	C	3	GLU
3	C	4	GLU
3	C	11	ARG
3	C	14	SER
3	C	15	LYS
3	C	23	SER
3	C	25	VAL
3	C	26	ASP
3	C	29	MET
3	C	34	ARG
3	C	43	THR
3	C	56	THR
3	C	57	VAL
3	C	66	ARG
3	C	77	ILE
3	C	86	CYS
3	C	93	ASP
3	C	94	LYS
3	C	102	GLN
3	C	119	VAL
3	C	124	LEU
3	C	125	MET
3	C	127	ARG
3	C	129	ILE
3	C	132	PRO
3	C	137	LYS
3	C	154	LYS
3	C	163	ILE
3	C	178	PHE
3	C	185	LYS
3	C	186	LEU
3	C	197	SER

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Mol	Chain	Res	Type
3	C	199	LYS
3	C	205	LYS
3	C	209	TYR
3	C	214	ASN
3	C	218	PRO
3	C	230	MET
3	C	235	VAL
3	C	238	ILE
3	C	240	VAL
3	C	242	GLN
3	C	245	VAL
3	C	246	ARG
3	C	251	LEU
3	C	258	ILE
3	C	260	LEU
3	C	265	MET
3	C	266	ASP
3	C	268	ASP
4	E	3	GLN
4	E	8	ASN
4	E	9	ILE
4	E	10	SER
4	E	33	GLU
4	E	34	GLU
4	E	36	GLU
4	E	37	LEU
4	E	39	LEU
4	E	43	LYS
4	E	47	CYS
4	E	49	SER
4	E	50	MET
4	E	56	LYS
4	E	57	MET
4	E	61	GLN
4	E	69	ILE
4	E	70	SER
4	E	74	ASP
4	E	78	LEU
4	E	81	GLU
4	E	84	ASP
4	E	88	VAL
4	E	90	VAL

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Mol	Chain	Res	Type
4	E	91	LYS
4	E	92	THR
4	E	95	THR
4	E	100	ILE
4	E	102	GLU
4	E	103	LYS
4	E	107	THR
4	E	113	GLN
4	E	115	ASN
4	E	116	ILE
4	E	118	PRO
4	E	121	MET
4	E	123	LEU
4	E	124	VAL
4	E	144	ILE
4	E	149	LEU
4	E	158	SER
4	E	159	ASP
4	E	161	LYS
4	E	162	ARG
4	E	167	ARG
4	E	178	ILE
4	E	179	GLN
4	E	183	PRO
4	E	192	ARG
4	E	196	VAL
4	E	200	ARG
4	E	204	THR
4	E	207	ARG
4	E	212	ARG
4	E	215	MET
5	F	72	LYS
5	F	74	ILE
5	F	77	ASP
5	F	81	THR
5	F	82	THR
5	F	97	ARG
5	F	103	MET
5	F	109	VAL
5	F	110	ASP
5	F	111	LEU
5	F	119	ARG

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Mol	Chain	Res	Type
5	F	128	LYS
6	H	3	ASN
6	H	4	THR
6	H	5	LEU
6	H	6	PHE
6	H	7	ASP
6	H	13	SER
6	H	19	ARG
6	H	26	ILE
6	H	27	GLU
6	H	30	SER
6	H	34	ASP
6	H	35	GLN
6	H	36	CYS
6	H	37	LYS
6	H	40	LEU
6	H	42	ILE
6	H	44	VAL
6	H	45	GLU
6	H	52	GLN
6	H	53	ASP
6	H	54	SER
6	H	56	THR
6	H	57	VAL
6	H	59	ILE
6	H	61	SER
6	H	63	LEU
6	H	77	ARG
6	H	78	SER
6	H	83	GLN
6	H	86	ASP
6	H	88	SER
6	H	91	ASP
6	H	92	ASP
6	H	93	TYR
6	H	95	TYR
6	H	105	GLU
6	H	106	GLU
6	H	108	SER
6	H	109	LYS
6	H	110	ASP
6	H	111	LEU

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Mol	Chain	Res	Type
6	H	112	ILE
6	H	121	LEU
6	H	129	TYR
6	H	130	ARG
6	H	131	ASN
6	H	136	LYS
6	H	137	GLN
6	H	138	GLU
6	H	144	ILE
7	I	1	MET
7	I	2	THR
7	I	10	CYS
7	I	18	GLU
7	I	24	ARG
7	I	45	ARG
7	I	48	LEU
7	I	55	THR
7	I	59	VAL
7	I	70	ARG
7	I	75	CYS
7	I	76	PRO
7	I	77	LYS
7	I	78	CYS
7	I	81	ARG
7	I	82	GLU
7	I	84	VAL
7	I	95	THR
7	I	98	VAL
7	I	116	ASN
7	I	117	LYS
7	I	119	THR
7	I	120	GLN
8	J	1	MET
8	J	2	ILE
8	J	3	VAL
8	J	9	SER
8	J	13	VAL
8	J	14	VAL
8	J	20	SER
8	J	26	GLN
8	J	28	ASP
8	J	38	ARG

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Mol	Chain	Res	Type
8	J	42	LYS
8	J	48	ARG
8	J	62	ARG
8	J	64	ASN
9	K	1	MET
9	K	2	ASN
9	K	11	LEU
9	K	14	GLU
9	K	18	LYS
9	K	20	LYS
9	K	31	VAL
9	K	42	LEU
9	K	47	ARG
9	K	54	ARG
9	K	55	LYS
9	K	63	VAL
9	K	73	LEU
9	K	75	ILE
9	K	78	THR
9	K	93	SER
9	K	97	LYS
9	K	102	LYS
9	K	106	GLU
9	K	112	GLN
9	K	113	THR
9	K	114	LEU
10	L	27	LEU
10	L	28	LYS
10	L	33	GLU
10	L	36	SER
10	L	37	LYS
10	L	41	SER
10	L	42	ARG
10	L	44	ASP
10	L	46	VAL
10	L	47	ARG
10	L	49	LYS
10	L	50	ASP
10	L	51	CYS
10	L	53	HIS
10	L	54	ARG
10	L	58	LYS

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Mol	Chain	Res	Type
10	L	60	ARG
10	L	61	THR
10	L	62	LYS
10	L	63	ARG
10	L	64	LEU
10	L	65	VAL
10	L	68	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (99) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	5	GLN
1	A	54	ASN
1	A	64	ASN
1	A	83	HIS
1	A	92	HIS
1	A	171	GLN
1	A	209	ASN
1	A	299	HIS
1	A	390	GLN
1	A	399	HIS
1	A	445	ASN
1	A	479	ASN
1	A	503	GLN
1	A	517	ASN
1	A	587	HIS
1	A	717	ASN
1	A	736	ASN
1	A	741	ASN
1	A	742	ASN
1	A	745	GLN
1	A	757	ASN
1	A	768	GLN
1	A	786	HIS
1	A	858	ASN
1	A	903	ASN
1	A	926	GLN
1	A	994	GLN
1	A	1040	GLN
1	A	1106	ASN
1	A	1140	HIS
1	A	1173	HIS

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Mol	Chain	Res	Type
1	A	1265	ASN
1	A	1364	ASN
1	A	1432	GLN
2	B	121	ASN
2	B	215	GLN
2	B	236	HIS
2	B	300	HIS
2	B	357	GLN
2	B	366	GLN
2	B	383	ASN
2	B	433	GLN
2	B	513	GLN
2	B	515	HIS
2	B	516	ASN
2	B	518	HIS
2	B	573	GLN
2	B	590	HIS
2	B	657	HIS
2	B	706	GLN
2	B	744	HIS
2	B	763	GLN
2	B	862	GLN
2	B	951	GLN
2	B	958	GLN
2	B	984	HIS
2	B	1025	HIS
2	B	1062	HIS
2	B	1065	GLN
2	B	1084	GLN
2	B	1093	GLN
2	B	1161	HIS
2	B	1178	ASN
2	B	1179	GLN
3	C	24	ASN
3	C	73	GLN
3	C	79	GLN
3	C	91	HIS
3	C	112	ASN
3	C	135	GLN
3	C	167	HIS
3	C	203	GLN
3	C	242	GLN

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Mol	Chain	Res	Type
3	C	252	GLN
3	C	267	GLN
4	E	3	GLN
4	E	5	ASN
4	E	32	GLN
4	E	61	GLN
4	E	99	HIS
4	E	104	ASN
4	E	146	HIS
4	E	147	HIS
6	H	21	ASN
6	H	131	ASN
6	H	133	ASN
6	H	137	GLN
6	H	139	ASN
7	I	12	ASN
7	I	46	HIS
7	I	83	ASN
7	I	114	GLN
7	I	116	ASN
8	J	53	HIS
9	K	29	ASN
9	K	65	HIS
9	K	76	GLN
9	K	110	ASN
10	L	53	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
13	CTP	B	3008	11	29,30,30	2.74	6 (20%)	43,47,47	3.00	10 (23%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CTP	B	3008	11	1/1/7/7	5/22/38/38	0/2/2/2

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	3008	CTP	C2-N1	9.94	1.60	1.40
13	B	3008	CTP	C1'-N1	7.57	1.69	1.47
13	B	3008	CTP	C6-N1	4.64	1.49	1.38
13	B	3008	CTP	C6-C5	4.21	1.44	1.35
13	B	3008	CTP	C4-N3	2.21	1.39	1.34
13	B	3008	CTP	PA-O3A	2.03	1.61	1.59

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	3008	CTP	O4'-C1'-N1	11.39	134.17	108.36
13	B	3008	CTP	C1'-N1-C2	8.54	137.30	118.44
13	B	3008	CTP	C6-N1-C2	-7.63	107.58	120.46
13	B	3008	CTP	O2-C2-N3	-7.40	110.66	122.33
13	B	3008	CTP	O2-C2-N1	3.23	125.23	118.90
13	B	3008	CTP	N1-C2-N3	3.06	124.11	118.80
13	B	3008	CTP	O4'-C1'-C2'	3.05	113.14	106.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	3008	CTP	C1'-N1-C6	-2.96	114.45	120.78
13	B	3008	CTP	C5-C6-N1	2.95	126.63	121.84
13	B	3008	CTP	C2'-C3'-C4'	2.43	107.30	102.61

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
13	B	3008	CTP	C1'

All (5) torsion outliers are listed below:

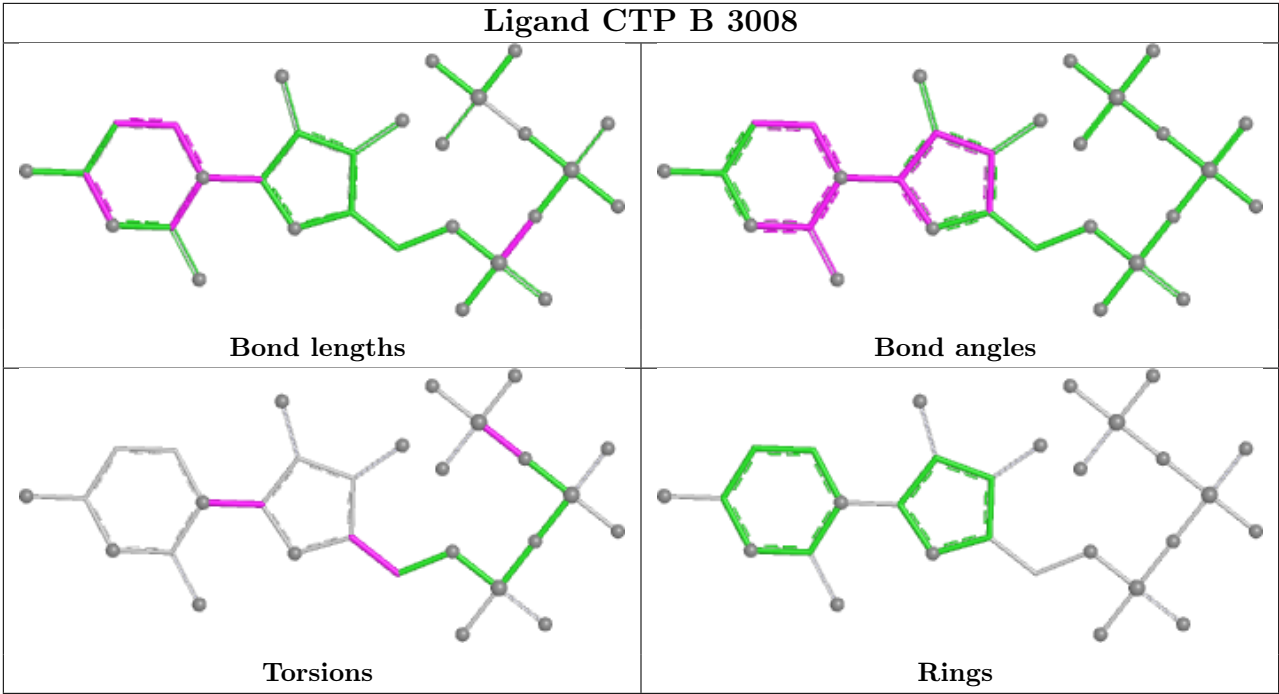
Mol	Chain	Res	Type	Atoms
13	B	3008	CTP	O4'-C4'-C5'-O5'
13	B	3008	CTP	C3'-C4'-C5'-O5'
13	B	3008	CTP	PB-O3B-PG-O2G
13	B	3008	CTP	C2'-C1'-N1-C2
13	B	3008	CTP	PB-O3B-PG-O3G

There are no ring outliers.

1 monomer is involved in 13 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	B	3008	CTP	13	0

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



5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	13
2	B	13
9	K	3
4	E	2
6	H	1
8	J	1
7	I	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	1066:VAL	C	1067:LEU	N	1.20
1	A	1106:ASN	C	1107:VAL	N	1.20
1	A	1191:TRP	C	1192:LEU	N	1.20
1	A	1328:TYR	C	1329:THR	N	1.20
1	B	224:GLN	C	225:VAL	N	1.20

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	486:TYR	C	487:THR	N	1.20
1	B	629:ASP	C	630:ALA	N	1.20
1	B	1013:ASN	C	1014:PRO	N	1.20
1	B	1074:ASN	C	1075:GLY	N	1.20
1	B	1137:CYS	C	1138:MET	N	1.20
1	B	1193:GLN	C	1194:ILE	N	1.20
1	K	97:LYS	C	98:LEU	N	1.20
1	A	645:LEU	C	646:PHE	N	1.19
1	A	983:ILE	C	984:LYS	N	1.19
1	B	31:TRP	C	32:ALA	N	1.19
1	B	1085:ILE	C	1086:PHE	N	1.19
1	E	79:TRP	C	80:VAL	N	1.19
1	H	95:TYR	C	96:VAL	N	1.19
1	J	24:LEU	C	25:LEU	N	1.19
1	A	981:LEU	C	982:THR	N	1.18
1	A	1036:ARG	C	1037:LEU	N	1.18
1	E	175:LEU	C	176:PRO	N	1.18
1	K	82:ASP	C	83:PRO	N	1.18
1	A	962:ARG	C	963:ILE	N	1.17
1	A	1367:HIS	C	1368:MET	N	1.17
1	A	1381:LEU	C	1382:THR	N	1.17
1	B	1019:SER	C	1020:ARG	N	1.17
1	I	41:PRO	C	42:LEU	N	1.17
1	A	736:ASN	C	737:LEU	N	1.16
1	B	384:ARG	C	385:LEU	N	1.16
1	B	520:GLY	C	521:LEU	N	1.16
1	B	809:MET	C	810:GLU	N	1.16
1	K	65:HIS	C	66:PRO	N	1.16
1	A	464:PRO	C	465:TYR	N	1.11

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	1349/1733 (77%)	0.13	44 (3%) 49 33	1, 24, 101, 195	0
2	B	1091/1224 (89%)	0.15	38 (3%) 47 31	1, 25, 114, 167	0
3	C	266/318 (83%)	0.09	0 100 100	1, 29, 77, 167	0
4	E	215/215 (100%)	0.51	12 (5%) 30 20	1, 38, 111, 135	0
5	F	83/155 (53%)	-0.16	1 (1%) 76 58	1, 22, 64, 86	0
6	H	133/146 (91%)	0.96	21 (15%) 5 4	22, 68, 127, 188	0
7	I	121/122 (99%)	0.37	6 (4%) 34 23	1, 31, 83, 100	0
8	J	64/70 (91%)	-0.03	1 (1%) 70 52	3, 22, 76, 91	0
9	K	114/120 (95%)	0.08	1 (0%) 81 65	3, 36, 73, 99	0
10	L	46/70 (65%)	1.01	7 (15%) 5 5	24, 73, 133, 137	0
All	All	3482/4173 (83%)	0.20	131 (3%) 44 30	1, 28, 108, 195	0

All (131) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
6	H	104	PHE	5.7
1	A	248	PRO	5.1
2	B	735	ALA	4.5
1	A	975	HIS	4.4
2	B	866	TYR	4.2
2	B	882	THR	4.1
2	B	870	ILE	3.9
2	B	733	HIS	3.7
6	H	136	LYS	3.7
6	H	139	ASN	3.6
1	A	33	ALA	3.5
1	A	1176	LEU	3.5
10	L	27	LEU	3.4

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Mol	Chain	Res	Type	RSRZ
4	E	50	MET	3.4
6	H	129	TYR	3.4
7	I	93	LYS	3.4
2	B	106	ASP	3.4
1	A	1254	ALA	3.3
6	H	131	ASN	3.3
2	B	883	LEU	3.3
9	K	114	LEU	3.3
2	B	1110	PRO	3.2
4	E	51	GLY	3.2
2	B	245	GLU	3.2
1	A	190	ALA	3.2
1	A	1080	THR	3.2
7	I	121	PHE	3.1
1	A	1173	HIS	3.1
6	H	85	GLY	3.1
1	A	191	THR	3.1
4	E	102	GLU	3.1
1	A	1232	ASN	3.0
2	B	869	SER	3.0
7	I	1	MET	3.0
6	H	137	GLN	3.0
1	A	65	LEU	2.9
2	B	436	VAL	2.9
2	B	167	ILE	2.9
6	H	134	ASN	2.9
6	H	59	ILE	2.9
1	A	324	SER	2.8
1	A	69	THR	2.8
5	F	72	LYS	2.8
1	A	192	GLY	2.8
1	A	35	ILE	2.8
2	B	1184	GLY	2.7
6	H	107	VAL	2.7
2	B	250	PHE	2.7
1	A	705	LYS	2.7
2	B	1104	HIS	2.7
1	A	264	PHE	2.7
4	E	103	LYS	2.7
1	A	61	ILE	2.6
1	A	188	ASP	2.6
4	E	129	PRO	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	44	THR	2.6
6	H	140	ALA	2.6
2	B	137	TYR	2.6
2	B	878	GLN	2.6
1	A	39	GLU	2.6
1	A	193	ASP	2.6
6	H	111	LEU	2.6
1	A	155	GLU	2.6
4	E	40	GLU	2.6
2	B	871	THR	2.6
2	B	68	THR	2.5
1	A	168	GLY	2.5
1	A	1419	ASP	2.5
10	L	62	LYS	2.5
1	A	68	GLN	2.5
2	B	868	MET	2.5
2	B	1102	LYS	2.5
1	A	1450	LEU	2.5
7	I	118	ARG	2.5
2	B	103	ASN	2.4
6	H	3	ASN	2.4
10	L	43	THR	2.4
7	I	74	GLU	2.4
1	A	37	PHE	2.4
2	B	1097	HIS	2.3
2	B	1176	ASN	2.3
8	J	64	ASN	2.3
2	B	18	PHE	2.3
2	B	554	ILE	2.3
4	E	2	ASP	2.3
10	L	38	LEU	2.3
1	A	1234	GLU	2.3
4	E	4	GLU	2.3
1	A	1258	HIS	2.3
1	A	196	GLU	2.3
4	E	215	MET	2.3
6	H	60	ALA	2.2
1	A	1081	LEU	2.2
2	B	1100	ASP	2.2
2	B	1219	ASP	2.2
1	A	289	ILE	2.2
6	H	46	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	156	ASP	2.2
7	I	4	PHE	2.2
10	L	40	LEU	2.2
6	H	126	GLU	2.2
4	E	38	PRO	2.2
2	B	1172	ILE	2.1
2	B	1189	ILE	2.1
1	A	1259	MET	2.1
10	L	49	LYS	2.1
2	B	434	ARG	2.1
2	B	1101	ASP	2.1
2	B	1103	ILE	2.1
1	A	186	LYS	2.1
6	H	135	LEU	2.1
1	A	194	ALA	2.1
6	H	130	ARG	2.1
1	A	1256	GLU	2.1
2	B	1224	PHE	2.1
2	B	467	GLY	2.1
10	L	32	ALA	2.1
6	H	7	ASP	2.1
2	B	1107	ALA	2.1
1	A	1280	GLU	2.1
2	B	89	GLU	2.1
4	E	137	GLU	2.1
1	A	1093	LYS	2.0
2	B	115	GLN	2.0
1	A	1448	GLU	2.0
6	H	144	ILE	2.0
1	A	1124	HIS	2.0
4	E	121	MET	2.0
6	H	52	GLN	2.0
1	A	189	ARG	2.0
1	A	246	VAL	2.0

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

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

6.3 Carbohydrates [i](#)

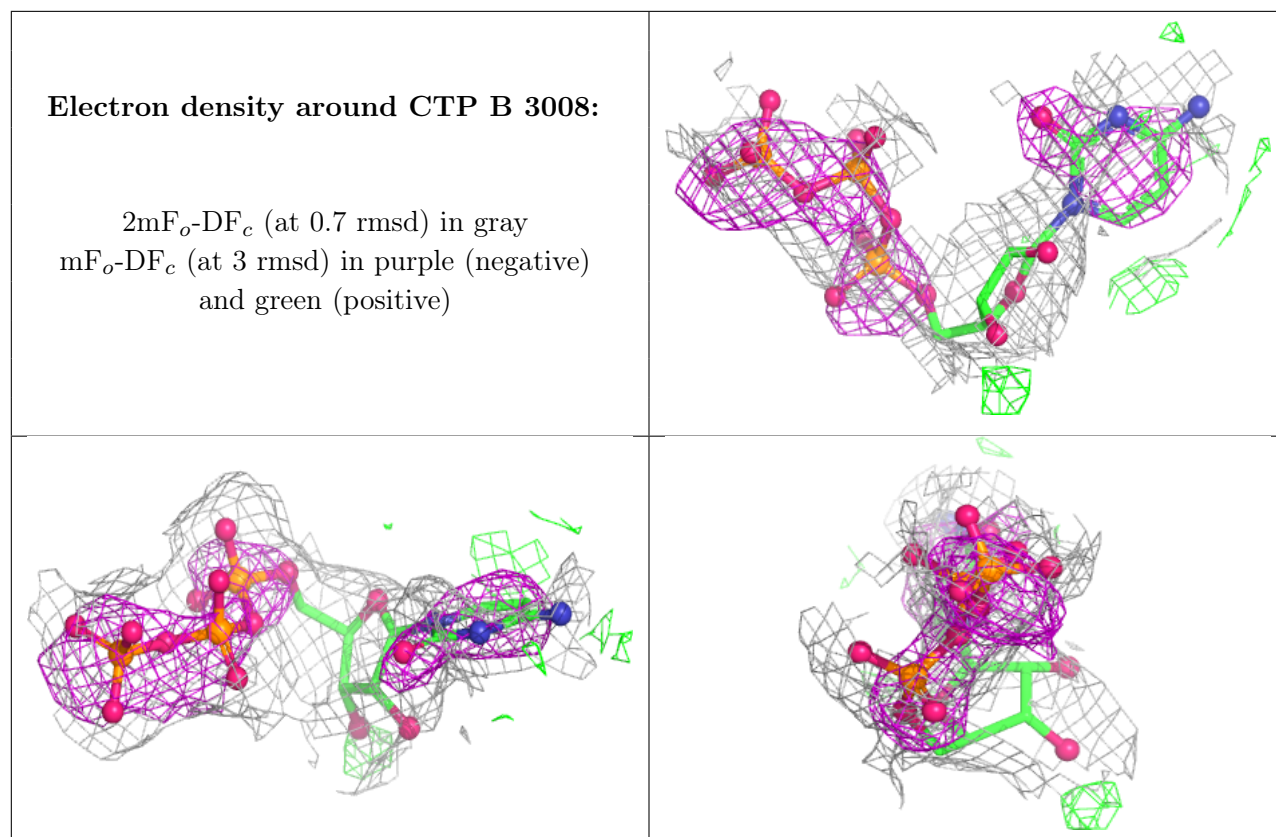
There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
13	CTP	B	3008	29/29	0.80	0.15	26,36,73,77	0
12	ZN	I	3004	1/1	0.88	0.20	49,49,49,49	0
12	ZN	L	3005	1/1	0.93	0.12	84,84,84,84	0
12	ZN	C	3002	1/1	0.97	0.12	35,35,35,35	0
11	MN	A	3010	1/1	0.97	0.05	29,29,29,29	0
12	ZN	A	3006	1/1	0.97	0.10	48,48,48,48	0
12	ZN	A	3008	1/1	0.97	0.06	87,87,87,87	0
12	ZN	I	3003	1/1	0.98	0.10	45,45,45,45	0
12	ZN	B	3007	1/1	0.99	0.10	37,37,37,37	0
11	MN	A	3009	1/1	0.99	0.04	15,15,15,15	0
12	ZN	J	3001	1/1	1.00	0.14	31,31,31,31	0

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



6.5 Other polymers [i](#)

There are no such residues in this entry.