



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 04:42 PM UTC

PDB ID : 1HQM / pdb_00001hqm
Title : CRYSTAL STRUCTURE OF THERMUS AQUATICUS CORE RNA POLYMERASE-INCLUDES COMPLETE STRUCTURE WITH SIDE-CHAINS (EXCEPT FOR DISORDERED REGIONS)-FURTHER REFINED FROM ORIGINAL DEPOSITION-CONTAINS ADDITIONAL SEQUENCE INFORMATION
Authors : Minakhin, L.; Bhagat, S.; Brunning, A.; Campbell, E.A.; Darst, S.A.; Ebright, R.H.; Severinov, K.
Deposited on : 2000-12-18
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
Xtriage (Phenix)	:	NOT EXECUTED
EDS	:	NOT EXECUTED
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

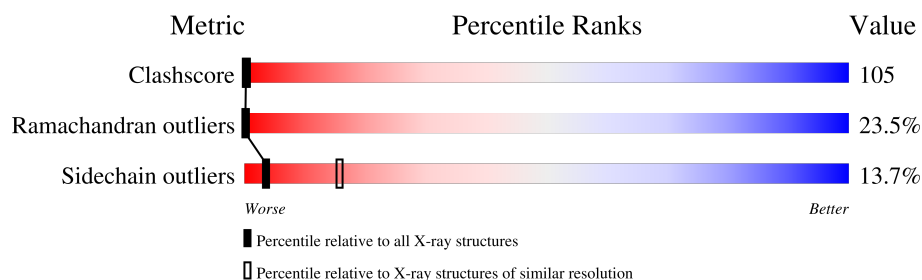
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.30 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	190562	1209 (3.32-3.28)
Ramachandran outliers	187476	1188 (3.32-3.28)
Sidechain outliers	187428	1187 (3.32-3.28)

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

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	313	9% 38% 19% . 29%
1	B	313	12% 36% 21% . 27%
2	C	1119	13% 52% 31% . .
3	D	1265	15% 51% 24% . 7%
4	E	99	11% 65% 23% .

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 21254 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 subunit alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	223	Total	C	N	O	S	0	0	0
			1750	1118	302	328	2			
1	B	229	Total	C	N	O	S	0	0	0
			1776	1135	305	334	2			

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	?	-	LYS	deletion	UNP Q9KWU8
A	93	ARG	MET	conflict	UNP Q9KWU8
A	94	TRP	ALA	conflict	UNP Q9KWU8
A	95	ARG	SER	conflict	UNP Q9KWU8
A	111	VAL	GLY	conflict	UNP Q9KWU8
B	?	-	LYS	deletion	UNP Q9KWU8
B	93	ARG	MET	conflict	UNP Q9KWU8
B	94	TRP	ALA	conflict	UNP Q9KWU8
B	95	ARG	SER	conflict	UNP Q9KWU8
B	111	VAL	GLY	conflict	UNP Q9KWU8

- Molecule 2 is a protein called DNA-directed RNA polymerase subunit beta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	1113	Total	C	N	O	S	12	0	0
			8508	5386	1514	1585	23			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	2	LYS	GLU	conflict	UNP Q9KWU7

- Molecule 3 is a protein called DNA-directed RNA polymerase subunit beta'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1175	Total	C	N	O	S	17	0	0
			8499	5328	1549	1595	27			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	119	PHE	SER	conflict	UNP Q9KWU6
D	863	THR	VAL	conflict	UNP Q9KWU6
D	866	THR	VAL	conflict	UNP Q9KWU6
D	876	ASN	SER	conflict	UNP Q9KWU6
D	947	ILE	-	insertion	UNP Q9KWU6
D	1010	ASN	LYS	conflict	UNP Q9KWU6
D	1117	LYS	ASN	conflict	UNP Q9KWU6
D	1389	PRO	ARG	conflict	UNP Q9KWU6

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	E	98	Total	C	N	O	S	0	0	0
			719	453	132	130	4			

- Molecule 5 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	D	1	Total	Mg	0	0
			1	1		

- Molecule 6 is ZINC ION (CCD ID: ZN) (formula: Zn).

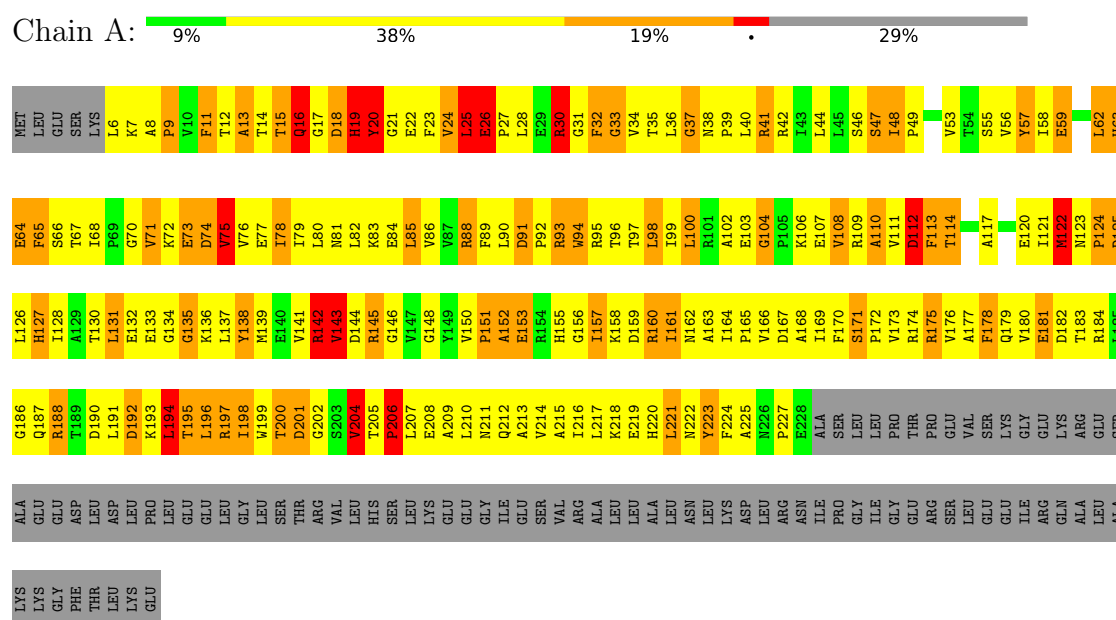
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	D	1	Total	Zn	0	0
			1	1		

3 Residue-property plots

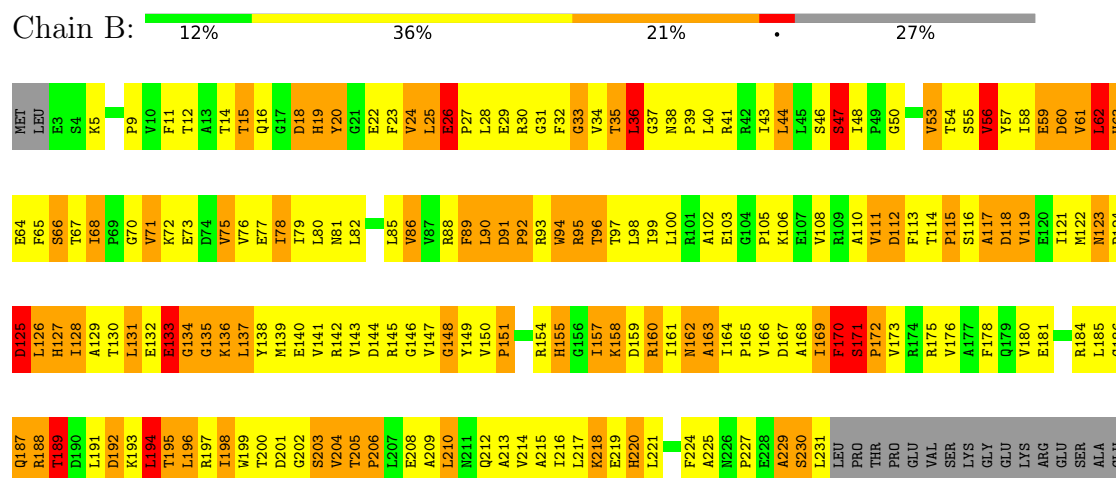
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded 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. 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.

Note EDS was not executed.

- Molecule 1: DNA-directed RNA polymerase subunit alpha

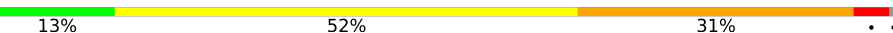


- Molecule 1: DNA-directed RNA polymerase subunit alpha



GLY	ASP	LEU	ASP	LEU	PRO	LEU	LEU	GLU	GLY	LEU	SER	THR	ARG	VAL	HIS	SER	LEU	LYS	GLU	SER	VAL	ARG	ASN	LEU	LEU	LYS	ASP	LEU	ARG	ASN	ILE	PRO	GLY	ILE	GLY	GLY	ARG	SER	LEU	GLU	GLU	ILE	ARG	GLN	ALA	LEU	ALA	LYS	LYS
GLY	PHE	THR	LEU	LEU	LYS	GLY																																											

● Molecule 2: DNA-directed RNA polymerase subunit beta

Chain C:  13% 52% 31%

T799	D738	P678	Y615	A555	T495	H431	A370	Y309	P248	V186	T122	G62
V801	E739	F679	E616	N556	I496	R432	K371	L310	K249	M187	E123	G63
R802	I742	D680	D617	R557	D680	T433	L372	F311	K250	K188	D124	L64
G803	R743	G681	G618	A558	Q498	H434	V373	A312	D251	R189	F127	V65
L804	R744	G682	R619	L559	A499	Y435	N374	L313	K252	K190	E127	L66
R805	R745	L683	L620	M560	N500	Q436	S375	T314	A253	F191	L128	D67
L806	I746	E685	V621	G561	T501	R437	R376	A315	L254	P192	L129	F68
R807	G746	D686	GLU	S562	P502	T438	P377	G316	A255	L193	N130	L69
	A747	D687	H623	N563	L503	C439	L378	V317	Y256	V194	G131	E70
	E748	P624	P624	M564	E504	P440	E379	P318	L257	L195		Y71
D810	V749	L688	R627	Q565	G505	V441	A380	G319	F258	L196	R134	R72
R811	K750	V689	R627	T566	D506	E442	A381	H320	L259	L197	V135	I12
G812	P751	I690	Y628	Q567	R507	T443	L382	E321	G259	L198	I136	I13
R813	G752	S691	A629	A568	L508	P444	R383	V322	L261	V199	V137	G74
E814	D753	E692	R630	V569	A509	E445	E384	D323	A282	L200	E138	D75
L815	I754	E693	S631	P570	T510	G446	F385	D324	D263	G201	Q139	P76
K816	L755	L694	N632	L571	D511	A447	F386	L325	F264	Y202	Q139	P77
P817	V756	L695	Q633	I572	R512	N448	S387	D326	K285	D203	L140	F78
		K696	G634	R573	V513	L449		R388	R266	Q204	H141	S79
	G818	F757	T635	A574	V514			L328	Y267	E205	E142	Q80
R819	R758	R697	T635	A574	V514	T453	Q390	L328	D268	T206	E144	D81
E820	T759	D698	A636	Q575	R516	A454	L391	G330	L269	G83	P144	Q22
R821	S760	F699	F637	A576	R516	L455	S392	N330	G270	V208	V146	C83
V822	F761	Y700	G640	P577	R517	L455	Q393	R331	E271	R209	E147	E24
R823	G762	T701	R640	V578	R518	A456	R393	R332	A271	E210	F148	S25
E824	P763	S702	P641	V579	G519	A457	F394	L333	E272	E210	E148	R86
R825	E764	I703	R642	M580	E520	Y458	D396	L334	K273	L211	T149	D87
F826	G765	H704	V643	T581	P521	A459	R396	T335	R274	L150	P150	X28
E827	E766	I705	G644	G582	V522	R460	E397	V336	Y275	D151	E151	R88
K828	P767	E706	V645	L583	I523	V461	T398	G337	K276	G215	P152	Y90
Q829	S768	R707	G646	E584	V524	D462	N399	E338	A277	D216	A183	Q91
R830	P769	Y708	Q647	E585	A525	A463	P400	L339	E278	L217	R154	A92
R831	E770	E709	R648	R586	P526	L464	L401	M340		V218	P155	A93
L832	E771	I710	V649	V587	E527	G465	S402	A341	L281	Q219	G156	P93
R833	R772	E711	K650	V588	E528	F466	S403	D342	G282	Q220	R157	L94
Q834	L773	A712	K651	R589	V529	I467	L404	G343	V283	L221	Y158	P95
R835	L774	R713	G652	D590	E530	R468	R495	F344	G284	L222	E159	P36
G836	R775	D714	D653	S591	F530	T469	R406	R345	L285	D223	I159	E37
R837	S776	T715	L654	L592	M532	P470	K407	R346	E224	R233	A160	L98
K838	L777	K716	L655	A593	D533	Y471	R408	G347	G287	A225	S161	Q99
L839	R778	L717	A656	A594	V534	R472	R409	L348	R288	R231	E162	L100
A840	G779	G718	D657	L595	S535	R473	T410	A349	T289	L227	P163	I101
N841	E780	F719	G658	Y596	P536	V474	S411	R350	L290	A228	P164	H102
R842	K781	E720	P659	A597	K537	K475	A412	L351	V291	R229	L165	K103
R843	L782	R721	A660	E598	Q538		L413	A352	R292	R230	P166	D104
G844	R783	I722	S681	E599	V539	V479	G414	R353	F293	E232	K167	T105
N845	T723	G662	T723	D600	F540	T480	P415	G354	E294	R231	R168	G106
K846	V785	E663	R724	G601	S541	E481	G416	V355	D295	E233	G169	L107
G847	K786	R725	G664	B602	L542	E482		R356	G296	A234	P170	I108
V848	D787	I726	P665	V603	M543	V483	T419	E357	E297	R235	W171	K109
R849	T788	P727	L666	V604	T544	V484	R420	R358	F298	V236	I172	E110
A850	S789	H728	A667	K605	N545	Y485	R421	K359	D298	G236	D173	D111
K851	L790	L729	L668	V606	L546	M486	R422	V360	D300	L238	L174	E112
L852	R791	S730		D607	I547	T487	A423	K361	E301		E175	V113
E853	V792	E731	N671	G608	P548	A488	G424	G362	V302	L241	V176	F114
P854	P793	A732	L672	T609	F549	S489	G425	S363	F303	L242	E177	L115
R855	R794	A733	L673	R610	L550	E490	F426	L304	L304	R243		G116
E856	L795	L734	P674	I611	E551	E491	V427	T366	P305	P244	V181	H17
D857	E796	R735	A675	A612	H552	D492	R428	L367	T306	G245	V182	P118
M858	G797	D736	L676	V613	D553	R493	D429	T368	L307	E246	T183	P119
	E798	L727	V677	V614	D554	V104	V420	P369	R308	D247	M184	L120
							V420				V185	G61



GLU	L1390	T1327	I1261	V1201	S1139	P1017	A1078	P1017	Y956	A896
ALA	L1391	G1328	E1262	C1202	D1140	F1018	L1079	F1018	P957	Q897
PRO	E1392	R1329	L1263	Q1203	I1141	K1080	L1080	K1080	P958	E898
ARG	T1453	A1330	F1264	K1204	E1142	G1081	G1081	L1021	L899	E959
ARG	A1454	G1394	E1265	C1205	S1143	G1082	G1082	P1020	E960	L900
PRO	V1395	D1332	A1266	Y1206	G1144	L1083	A1083	L1022	K961	Q901
VAL	L1396	P1333	R1267	G1207	L1146	D1084	L1084	V1023	Q962	M902
ARG	E1397	H1394	R1268	Y1208	L1146	T1085	T1085	M1024	R963	D903
ARG	K1398	Q1335	P1269	D1209	G1147	K1086	A1025	A1025	V904	V904
GLU	V1399	L1336	K1270	L1210	L1148	L1087	L1087	Q1026	P965	P905
GLN	D1400	E1337	A1271	S1211	V1149	L1088	L1088	S1027	E966	Q906
PRO	V1401	L1338	K1272	M1212	L1150	T1089	T1089	G1028	E967	E907
GLY	E1402	A1339	A1273	A1213	A1151	A1090	A1090	A1029	P968	K908
LYS	K1403	K1340	V1274	R1214	R1152	D1091	D1091	R1030	P969	N909
GLY	L1404	G1341	I1275	P1215	E1153	S1092	S1092	G1031	R970	S910
GLY	E1465	M1405	S1276	V1216	V1154	G1093	G1093	M1032	K971	L911
LEU	M1466	E1434	E1277	S1217	E1155	Y1094	Y1094	P1033	L972	K912
	R1407	A1344	I1278	I1218	A1156	L1095	L1095	Q1034	R973	D913
	L1408	V1345	D1279	G1219	L1157	T1096	T1096	Q1035	P974	L914
	L1409	E1346	G1280	E1220	G1158	R1097	R1097	I1036	P975	V915
	A1410	R1347	V1281	A1221	R1159	K1098	K1098	R1037	E976	Y916
	GLU	Y1348	V1282	V1222	R1160	L1099	L1099	Q1038	Q977	Q917
	GLY	L1349	R1283	G1223		V1100	V1100	L1039	A978	A918
	LYS		I1284	G1224	E1163	P1101	P1101	C1040	Y979	F919
	V1414	E1352	E1285	V1225	G1164	V1102	V1102	G1041	E980	L920
	A1475	I1353	E1286	A1226	R1165	A1103	A1103	M1042	P981	R921
	G1476	Q1354	G1287	A1227	Y1166	H1104	H1104	K1043	L922	L922
	T1477	K1355	E1288	E1228	L1167	E1105	E1105	G1044	G923	G923
	G1478	V1356	S1229	S1229		L1045	L1045	L1046	T985	M924
	K1419	Y1357	L1291	I1230	E1170	V1107	V1107	Q1046	D986	E925
	P1420	R1358	S1292	G1231	D1171	L1108	L1108	K1048	R987	K926
	L1421		V1293	E1232	V1172	R1109	R1109	P1049	E988	T927
	L1422	V1362	F1294	P1233	H1173	E1110	E1110	S1050	R989	A928
	K1423	K1363	V1295	G1234	F1174	A1111	A1111	Y990	R929	R929
	G1424	L1364		T1235	L1175	D1112	D1112	G1051	D991	L930
	F1425	H1365	F1300	Q1236	K1176	C1113	C1113	E1052	Q992	L931
	K1426	D1366	S1301	L1237	R1177	G1114	G1114	T1053	P993	D932
	K1427	K1367	K1302	T1238	A1178	T1115		F1054	L994	A933
	S1428	H1368	E1303	M1239	A1179				Q995	L934
	L1429	L1369	L1304	R1240	E1180	Y1118	Y1118	P1057	L996	K935
	Q1430	K1370	K1305	T1241	A1181	S1120	S1120	R1059	R997	Y937
	S1431	T1371	L1306	PHE	G1182	T1121	T1121	K1060	T998	Y937
	T1432	V1372		HLs	E1183	V1184	V1184	S1061	E999	G938
	K1433	V1373		THR	V1189	P1122	P1122	F1062	T1000	F939
	A1434	R1374	R1311	GLY	R1190	L1128	L1128	K1068	T1000	T940
	V1435	Q1375	L1312	GLY	S1191	E1186	E1186	F1123	E1002	L941
	L1436	M1376	L1313	VAL	V1187	L1187	L1187	Q1064	K1003	S942
	S1437	L1377	V1314	ALA	F1188	M1226	M1226	G1065	L1004	K942
	A1438	R1378	K1315	ALA		D1127	D1127	L1066	T1005	T944
GLU	E1493	K1378	K1316	VAL		E1189	E1189	T1067	Q1006	T944
ALA	A1439	V1379	D1316	G1250	R1190	E1190	E1190	K1068	S945	G946
ARG	S1440	V1380	G1317	T1251	S1191	V1129	V1129	F1068	A1007	F946
LYS	F1441	F1381	D1318	L1252	P1192	T1130	T1130	L1069	F1008	I947
GLU	G1442	V1382	V1319	I1253	L1193	R1131	R1131	E1070	V1009	I948
ALA	N1443	T1383	V1320	T1254	T1194	T1132	T1132	Y1071	M1010	T949
VAL	T1444	P1384	E1321	Q1255	C1195	L1133	L1133	F1072	M1011	P950
GLU	T1445	P1385	A1322	G1256	Q1196	R1134	R1134	T1073	F1012	G951
LYS	H1446	G1386	G1323	L1257	T1197	L1135	L1135	S1074	E1013	P952
LYS	V1447	D1387	Q1324	P1258	R1198	H1136	H1136	S1075	E1014	D953
GLU	L1448	S1388	P1325	R1259	V1199	K1137	K1137	H1076	D954	F954
LYS	T1449	P1389	L1265	V1260	C1200	L1138	L1138	C1077	M1015	A955

- Molecule 4: DNA-directed RNA polymerase subunit omega

Chain E:  11% 65% 23%

V61	T62	W63	A64	M65	K66	E67	L68	L69	T70	G71	R72	L73	F74	R75	G76	K77	N78	L79	V80	P81	E82	D83	R84	L85	K86	K87	M88	M89	E90	R91	L92	Y93	P94	T95	E96	E97	E98	ALA																				
H1	A2	E3	P4	G5	I6	D7	K8	L9	F10	G11	M12	V13	D14	S15	K16	Y17	R18	L19	T20	V21	V22	V23	A24	K25	R26	A27	Q28	Q29	L30	L31	R32	H33	R34	F35	K36	N37	T38	V39	L40	E41	P42	E43	A44	R45	K47	M48	R49	T50	L51	E52	G53	L54	Y55	D56	D57	P58	N59	L60

4 Data and refinement statistics

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

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	200.76Å 200.76Å 292.94Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	8.00 – 3.30	Depositor
% Data completeness (in resolution range)	(Not available) (8.00-3.30)	Depositor
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
Refinement program	CNS 0.9	Depositor
R, R_{free}	0.300 , 0.360	Depositor
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	21254	wwPDB-VP
Average B, all atoms (Å ²)	80.0	wwPDB-VP

5 Model quality

5.1 Standard geometry

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

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	0.53	0/1786	1.11	8/2434 (0.3%)
1	B	0.50	1/1812 (0.1%)	1.12	17/2471 (0.7%)
2	C	0.54	0/8672	1.20	93/11752 (0.8%)
3	D	0.54	1/8437 (0.0%)	1.20	99/11443 (0.9%)
4	E	0.46	0/730	1.03	3/991 (0.3%)
All	All	0.53	2/21437 (0.0%)	1.18	220/29091 (0.8%)

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	1
2	C	0	1
All	All	0	2

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	231	LEU	CB-CG	-5.56	1.42	1.53
3	D	949	THR	CA-CB	5.24	1.58	1.53

All (220) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	834	THR	N-CA-C	-14.67	93.72	114.12
3	D	1070	GLU	N-CA-C	-13.62	96.94	113.15
2	C	736	ASP	N-CA-C	-12.93	97.54	113.18
3	D	567	ILE	N-CA-C	-12.76	101.58	113.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	836	GLY	N-CA-C	-12.71	97.99	111.21
2	C	580	MET	N-CA-C	11.23	127.70	113.55
2	C	255	ALA	N-CA-C	-11.00	99.87	113.18
2	C	590	ASP	N-CA-C	-10.99	100.60	114.56
2	C	267	TYR	N-CA-C	-10.67	100.94	113.21
3	D	1214	ARG	CA-C-N	-10.24	109.28	120.14
3	D	1214	ARG	C-N-CA	-10.24	109.28	120.14
2	C	439	CYS	CA-C-N	10.21	132.60	119.84
2	C	439	CYS	C-N-CA	10.21	132.60	119.84
3	D	967	GLU	N-CA-C	-10.13	98.96	111.11
3	D	1206	TYR	N-CA-C	-9.83	101.45	113.15
3	D	649	ALA	N-CA-C	-9.57	100.72	111.82
2	C	949	LYS	N-CA-C	-9.56	100.86	111.28
3	D	520	LEU	CA-C-N	-9.55	110.54	120.38
3	D	520	LEU	C-N-CA	-9.55	110.54	120.38
2	C	831	ARG	N-CA-C	9.49	126.05	113.72
2	C	792	VAL	CA-C-N	9.32	129.99	120.38
2	C	792	VAL	C-N-CA	9.32	129.99	120.38
2	C	371	LYS	N-CA-C	-9.32	103.01	114.75
3	D	980	GLU	N-CA-C	-9.16	101.88	112.87
3	D	955	ALA	N-CA-C	-9.03	101.56	112.58
2	C	662	GLU	N-CA-C	-8.97	99.38	110.41
3	D	1021	LEU	N-CA-C	-8.94	102.56	113.19
2	C	7	GLY	N-CA-C	8.70	122.73	110.38
1	A	145	ARG	N-CA-C	-8.68	98.83	110.55
2	C	1076	VAL	N-CA-C	8.63	117.42	107.84
2	C	73	ILE	N-CA-C	-8.48	96.38	109.78
2	C	576	ALA	N-CA-C	-8.45	97.71	110.39
2	C	566	THR	N-CA-C	-8.40	101.15	111.40
2	C	544	THR	N-CA-C	-8.37	102.89	113.43
3	D	782	SER	N-CA-C	8.29	119.19	108.24
3	D	677	LEU	N-CA-C	-8.27	103.38	113.97
2	C	761	PHE	N-CA-C	8.26	119.97	110.97
2	C	41	ASN	N-CA-C	8.25	119.15	108.34
2	C	344	PHE	N-CA-C	-8.24	102.38	111.36
3	D	551	ASN	N-CA-C	-8.12	103.16	113.23
2	C	307	LEU	N-CA-C	-8.03	101.28	112.45
2	C	749	VAL	N-CA-C	7.97	119.36	107.80
3	D	1178	ALA	N-CA-C	-7.91	102.61	111.07
3	D	27	GLU	N-CA-C	-7.85	103.84	113.19
3	D	1024	MET	N-CA-C	-7.84	102.73	111.28
3	D	1043	ARG	N-CA-C	-7.79	96.71	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	104	ASP	N-CA-C	-7.70	101.94	112.03
3	D	107	ASP	N-CA-C	-7.65	102.94	111.28
2	C	29	ALA	N-CA-C	-7.58	104.27	113.97
1	B	78	ILE	N-CA-C	-7.53	103.45	110.53
3	D	1235	THR	N-CA-C	-7.51	104.15	112.72
1	B	205	THR	CA-C-N	7.46	129.16	119.84
1	B	205	THR	C-N-CA	7.46	129.16	119.84
3	D	961	LYS	N-CA-C	-7.41	103.86	113.12
4	E	27	ALA	N-CA-C	-7.40	103.16	111.07
3	D	911	LEU	N-CA-C	-7.39	102.25	111.11
3	D	1391	LEU	N-CA-C	-7.33	104.86	113.88
2	C	324	ASP	N-CA-C	-7.28	102.88	112.34
1	B	204	VAL	N-CA-C	7.25	118.72	108.93
3	D	606	ILE	N-CA-C	-7.24	102.75	113.39
2	C	383	ARG	N-CA-C	-7.23	104.45	113.20
1	B	56	VAL	N-CA-C	7.18	118.46	108.12
2	C	1092	LEU	N-CA-C	-7.17	103.50	112.90
2	C	1111	ILE	N-CA-C	-7.17	102.85	113.39
2	C	785	VAL	N-CA-C	7.16	118.14	108.11
3	D	137	PRO	N-CA-CB	7.16	110.77	103.25
3	D	639	LEU	N-CA-C	-7.13	95.62	110.80
3	D	752	SER	N-CA-C	7.11	121.52	108.58
2	C	443	THR	CA-C-N	7.08	128.69	119.84
2	C	443	THR	C-N-CA	7.08	128.69	119.84
3	D	1205	CYS	N-CA-C	-7.08	95.72	110.80
2	C	82	GLU	N-CA-C	-7.06	103.67	111.36
2	C	467	ILE	N-CA-C	6.99	123.88	109.34
3	D	1327	THR	N-CA-C	-6.93	104.57	113.16
2	C	448	ASN	N-CA-C	-6.91	104.16	112.59
2	C	990	GLY	N-CA-C	6.89	120.63	110.63
3	D	1042	MET	N-CA-C	6.89	119.73	110.35
3	D	512	MET	N-CA-C	-6.89	96.12	110.80
3	D	1126	MET	N-CA-C	6.86	120.70	109.94
1	B	96	THR	N-CA-C	6.84	120.67	109.94
1	B	33	GLY	N-CA-C	-6.83	104.38	112.64
1	A	24	VAL	CB-CA-C	-6.82	102.71	110.96
3	D	510	GLU	N-CA-C	-6.81	105.50	113.88
3	D	671	LYS	N-CA-C	-6.81	103.88	111.71
1	B	25	LEU	N-CA-C	-6.78	101.58	110.53
2	C	413	LEU	N-CA-C	-6.78	105.79	112.97
1	A	91	ASP	N-CA-C	6.74	114.28	108.22
2	C	162	ILE	N-CA-C	6.72	116.30	106.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1004	VAL	N-CA-C	-6.70	102.91	112.35
3	D	1371	ILE	CB-CA-C	-6.68	103.32	111.88
2	C	885	ILE	N-CA-C	-6.68	106.06	111.81
3	D	756	GLN	N-CA-C	-6.68	103.93	111.14
3	D	1334	HIS	N-CA-C	-6.67	105.77	114.04
2	C	35	PRO	CA-C-N	6.66	128.16	119.84
2	C	35	PRO	C-N-CA	6.66	128.16	119.84
1	B	185	LEU	N-CA-C	-6.64	104.28	112.38
2	C	922	PHE	N-CA-C	-6.64	104.35	113.18
3	D	979	TYR	N-CA-C	-6.64	107.06	114.62
2	C	209	ARG	N-CA-C	-6.62	103.04	111.92
3	D	1066	LEU	N-CA-C	-6.56	96.83	110.80
3	D	559	ALA	N-CA-C	-6.55	105.39	113.19
3	D	1211	SER	N-CA-C	-6.55	106.50	114.75
3	D	16	GLU	N-CA-C	-6.52	105.48	113.50
3	D	976	GLU	N-CA-C	-6.51	104.60	112.54
2	C	540	PHE	N-CA-C	6.51	119.77	109.81
2	C	950	LEU	N-CA-C	-6.50	105.73	113.21
3	D	973	ARG	N-CA-C	-6.44	104.31	111.71
1	A	24	VAL	N-CA-C	6.44	118.08	108.23
3	D	1022	TYR	N-CA-C	-6.41	103.53	112.25
3	D	29	PRO	N-CA-CB	6.41	109.98	103.25
2	C	675	ALA	N-CA-C	-6.41	100.49	110.42
2	C	191	PHE	N-CA-C	6.36	113.94	108.22
3	D	1406	GLU	N-CA-C	-6.36	105.38	113.01
2	C	329	GLY	N-CA-C	-6.33	98.17	113.18
2	C	162	ILE	CB-CA-C	-6.32	105.47	112.68
2	C	274	ARG	N-CA-C	-6.32	103.69	111.40
2	C	614	ARG	N-CA-C	-6.31	103.69	111.33
3	D	1492	THR	N-CA-C	-6.29	105.46	113.01
3	D	1107	VAL	N-CA-C	6.29	116.65	108.35
2	C	412	ALA	N-CA-C	-6.26	103.99	113.89
2	C	737	LEU	N-CA-C	-6.26	99.97	108.24
3	D	1041	GLY	N-CA-C	-6.26	104.53	112.54
3	D	747	VAL	N-CA-C	6.25	122.35	109.34
1	B	171	SER	CA-C-N	6.23	127.63	119.84
1	B	171	SER	C-N-CA	6.23	127.63	119.84
4	E	37	ASN	N-CA-C	-6.23	106.28	114.31
3	D	1083	ALA	N-CA-C	-6.20	104.63	111.82
3	D	109	PRO	N-CA-CB	6.18	109.74	103.25
3	D	852	ALA	N-CA-C	-6.18	104.46	111.07
1	B	189	THR	N-CA-C	6.17	123.94	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	67	GLU	N-CA-C	-6.14	104.85	112.90
2	C	347	GLY	N-CA-C	-6.13	105.22	112.64
3	D	98	PRO	N-CA-CB	6.12	109.67	103.25
3	D	1280	GLY	N-CA-C	6.11	127.66	113.18
3	D	603	LEU	N-CA-C	-6.04	106.04	113.41
2	C	721	ARG	N-CA-C	6.04	119.24	109.40
3	D	1036	ILE	CB-CA-C	-6.03	104.16	111.88
3	D	965	LEU	N-CA-C	-6.03	102.55	110.33
1	A	88	ARG	N-CA-C	-6.01	100.01	109.50
3	D	705	ALA	CA-C-N	-5.97	113.38	119.83
3	D	705	ALA	C-N-CA	-5.97	113.38	119.83
2	C	464	LEU	N-CA-C	5.96	118.40	108.20
2	C	815	LEU	N-CA-C	5.95	118.90	109.50
3	D	1212	MET	N-CA-C	-5.92	104.73	113.61
2	C	913	GLU	N-CA-C	-5.91	104.75	111.07
2	C	901	TYR	N-CA-C	5.90	118.38	109.41
3	D	17	LYS	N-CA-C	-5.89	104.50	111.03
3	D	461	ILE	N-CA-C	-5.89	103.91	110.62
3	D	1019	ASN	CA-C-N	-5.85	112.53	119.84
3	D	1019	ASN	C-N-CA	-5.85	112.53	119.84
3	D	1030	ARG	N-CA-C	5.84	117.92	110.61
2	C	154	ARG	CA-C-N	5.84	127.14	119.84
2	C	154	ARG	C-N-CA	5.84	127.14	119.84
3	D	1141	ILE	N-CA-C	-5.83	104.82	110.42
2	C	421	GLU	N-CA-C	-5.82	103.02	110.53
3	D	1186	GLU	N-CA-C	-5.82	102.15	110.59
3	D	1032	ASN	CA-C-N	5.80	125.93	119.32
3	D	1032	ASN	C-N-CA	5.80	125.93	119.32
2	C	226	VAL	N-CA-C	-5.79	104.02	110.62
3	D	851	LEU	N-CA-C	-5.79	105.05	111.36
3	D	618	LEU	N-CA-C	-5.75	104.37	111.33
2	C	384	GLU	N-CA-C	-5.71	104.44	111.40
3	D	1192	PRO	N-CA-C	-5.69	105.78	113.40
2	C	892	LEU	N-CA-C	-5.68	105.09	111.28
3	D	739	ASP	N-CA-C	-5.65	103.03	110.43
3	D	1335	GLN	N-CA-C	-5.62	104.79	111.03
3	D	1440	SER	N-CA-C	-5.59	105.09	111.07
2	C	1001	VAL	N-CA-C	5.59	115.78	110.42
2	C	994	ILE	N-CA-C	5.57	116.33	108.36
3	D	1121	VAL	CA-C-N	5.54	125.49	119.78
3	D	1121	VAL	C-N-CA	5.54	125.49	119.78
3	D	1282	VAL	N-CA-C	5.53	120.85	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	591	SER	N-CA-C	-5.53	106.03	112.89
1	B	218	LYS	N-CA-C	-5.49	105.21	111.14
1	B	170	PHE	N-CA-C	5.48	117.23	108.41
3	D	732	VAL	N-CA-C	5.46	117.88	111.05
3	D	772	PRO	N-CA-C	5.46	123.72	112.47
2	C	799	ILE	N-CA-C	5.44	115.69	107.80
3	D	1281	VAL	N-CA-C	5.43	117.00	109.29
1	A	75	VAL	N-CA-C	5.42	120.60	109.34
2	C	658	GLY	CA-C-N	5.42	126.61	119.84
2	C	658	GLY	C-N-CA	5.42	126.61	119.84
1	A	197	ARG	N-CA-C	5.40	119.96	112.45
1	B	46	SER	CB-CA-C	-5.40	108.66	116.54
3	D	1142	GLU	N-CA-C	-5.39	105.41	111.28
3	D	826	PRO	N-CA-CB	5.39	108.91	103.25
1	B	24	VAL	N-CA-C	5.38	120.53	109.34
2	C	288	ARG	N-CA-C	5.34	115.44	108.07
2	C	72	ARG	N-CA-C	5.33	116.12	107.32
2	C	437	ARG	N-CA-C	5.33	117.90	107.57
1	B	26	GLU	N-CA-C	5.31	121.55	109.81
3	D	1181	ALA	N-CA-C	-5.30	106.05	113.37
2	C	703	ILE	N-CA-C	5.29	115.72	107.99
2	C	54	ILE	N-CA-C	5.27	115.88	109.30
3	D	1444	THR	N-CA-C	5.25	117.01	111.28
3	D	1226	ALA	N-CA-C	-5.25	107.53	114.31
2	C	1001	VAL	CB-CA-C	-5.24	105.26	111.97
2	C	55	GLU	CB-CA-C	-5.22	108.85	116.53
2	C	895	TYR	N-CA-C	-5.21	100.46	110.56
2	C	900	ARG	N-CA-C	-5.19	101.23	109.59
2	C	1053	LEU	N-CA-C	-5.19	104.70	112.54
2	C	747	ALA	N-CA-C	-5.19	103.68	110.53
3	D	977	GLN	N-CA-C	-5.18	106.65	113.12
2	C	776	SER	N-CA-C	-5.17	105.33	110.97
1	A	65	PHE	N-CA-C	-5.13	106.32	112.58
3	D	1433	LYS	N-CA-C	5.12	121.72	110.80
3	D	737	ASN	N-CA-C	-5.12	104.35	111.52
2	C	1105	LYS	N-CA-C	5.10	118.33	112.57
3	D	664	LYS	N-CA-C	-5.10	106.75	112.87
3	D	570	GLU	N-CA-C	-5.10	107.03	113.20
2	C	379	GLU	N-CA-C	-5.09	99.96	110.80
3	D	956	VAL	CB-CA-C	-5.09	106.41	111.80
2	C	487	THR	N-CA-C	-5.08	106.77	113.12
3	D	146	PRO	N-CA-CB	5.07	109.58	103.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	722	ILE	CB-CA-C	-5.05	106.92	112.68
2	C	884	GLN	N-CA-C	-5.04	106.97	113.02
2	C	456	ALA	N-CA-C	5.04	117.03	110.43
2	C	434	HIS	N-CA-C	-5.02	102.43	109.96
3	D	972	LEU	N-CA-C	-5.02	106.26	112.93
2	C	115	LEU	N-CA-C	5.01	114.86	108.24

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	138	TYR	Sidechain
2	C	975	TYR	Sidechain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1750	0	1759	422	0
1	B	1776	0	1776	337	0
2	C	8508	0	8418	1971	0
3	D	8499	0	7993	1744	0
4	E	719	0	685	138	0
5	D	1	0	0	0	0
6	D	1	0	0	0	0
All	All	21254	0	20631	4381	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 105.

All (4381) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1020:PRO:HB2	3:D:1023:VAL:HB	1.20	1.18
2:C:508:ILE:H	2:C:508:ILE:HD13	1.10	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:438:ILE:HG21	2:C:470:PRO:HB3	1.22	1.15
2:C:605:LYS:HG2	2:C:606:VAL:H	1.05	1.14
2:C:262:ALA:HB1	2:C:266:ARG:HD2	1.23	1.14
1:A:41:ARG:HB3	1:A:41:ARG:HH11	1.03	1.12
3:D:483:HIS:H	3:D:484:PRO:HD2	1.10	1.12
3:D:129:PHE:HA	3:D:454:ALA:HB1	1.19	1.12
3:D:1148:ARG:HB3	3:D:1189:VAL:HG21	1.32	1.11
3:D:860:LEU:HA	3:D:877:PRO:HG2	1.16	1.11
3:D:772:PRO:HG3	3:D:778:LEU:HB2	1.24	1.10
2:C:438:ILE:HD13	2:C:470:PRO:HD3	1.32	1.10
3:D:890:VAL:HG11	3:D:922:LEU:HD13	1.23	1.10
2:C:256:TYR:HA	2:C:260:LEU:HD13	1.28	1.10
3:D:879:ARG:HG3	3:D:904:VAL:HG22	1.26	1.09
2:C:12:VAL:HG12	2:C:13:ILE:H	0.97	1.08
1:B:26:GLU:HB3	1:B:27:PRO:HD3	1.25	1.08
3:D:1080:LYS:HG3	3:D:1081:GLY:H	0.99	1.07
3:D:1035:GLN:HA	3:D:1035:GLN:HE21	1.16	1.07
2:C:580:MET:HB2	2:C:584:GLU:HG3	1.34	1.07
1:A:157:ILE:HD11	1:A:160:ARG:HE	1.19	1.06
3:D:1025:ALA:HA	3:D:1029:ALA:HB3	1.32	1.06
2:C:892:LEU:HD23	2:C:892:LEU:H	1.17	1.06
1:A:62:LEU:HD12	1:A:62:LEU:H	1.19	1.05
2:C:253:ALA:HA	2:C:256:TYR:HB2	1.27	1.05
1:A:26:GLU:HB3	1:A:27:PRO:CD	1.85	1.05
3:D:862:ASP:HA	3:D:876:ASN:HB3	1.38	1.05
2:C:630:ARG:HB3	2:C:705:ILE:HD11	1.35	1.04
2:C:159:ILE:HD11	2:C:310:LEU:HD22	1.39	1.04
3:D:521:PRO:HG2	3:D:522:PRO:HD3	1.35	1.04
2:C:195:LEU:HB2	2:C:227:LEU:HD13	1.38	1.04
2:C:969:LEU:HD13	3:D:952:ILE:HB	1.33	1.04
2:C:110:GLU:HG2	2:C:369:PRO:HG2	1.38	1.03
2:C:813:VAL:HG12	2:C:814:GLU:H	1.24	1.03
1:B:26:GLU:HB3	1:B:27:PRO:CD	1.85	1.03
2:C:551:GLU:HG3	2:C:906:PHE:HD2	1.21	1.03
2:C:110:GLU:CG	2:C:369:PRO:HG2	1.89	1.03
2:C:605:LYS:HG3	2:C:612:ALA:H	1.20	1.02
2:C:605:LYS:HA	2:C:612:ALA:HB3	1.07	1.02
3:D:1281:VAL:HG13	3:D:1316:ASP:HA	1.42	1.01
3:D:1460:LEU:HB3	3:D:1466:ASN:HD21	1.19	1.01
3:D:1016:TYR:HA	3:D:1019:ASN:HD22	1.24	1.01
1:A:41:ARG:HB3	1:A:41:ARG:NH1	1.76	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1016:TYR:HB3	3:D:1020:PRO:HD3	1.41	1.01
2:C:15:LEU:HD21	2:C:461:VAL:HG21	1.43	1.00
2:C:376:ARG:H	2:C:377:PRO:HD2	1.26	1.00
3:D:1253:ILE:HD12	3:D:1270:LYS:HB2	1.41	1.00
3:D:1281:VAL:HG12	3:D:1282:VAL:HG23	1.41	1.00
2:C:502:PRO:HB2	2:C:507:ARG:CZ	1.91	1.00
2:C:257:LEU:HD13	2:C:264:PRO:HG3	1.42	1.00
2:C:701:THR:HG22	2:C:832:LYS:HA	1.44	1.00
2:C:17:PRO:HG2	2:C:19:THR:H	1.23	1.00
2:C:99:GLN:HB3	2:C:109:LYS:HG2	1.41	1.00
3:D:772:PRO:CG	3:D:778:LEU:HB2	1.91	0.99
1:A:157:ILE:HG23	1:A:158:LYS:H	1.27	0.99
2:C:691:SER:HB2	2:C:858:MET:HE2	1.44	0.99
2:C:597:ALA:HA	2:C:614:ARG:NH1	1.77	0.99
2:C:1060:ILE:HG22	2:C:1064:ASN:HD21	1.27	0.98
3:D:795:VAL:HG23	3:D:904:VAL:HG11	1.42	0.98
2:C:613:VAL:HG11	2:C:619:ARG:HD2	1.43	0.98
2:C:889:HIS:CE1	3:D:951:GLY:H	1.81	0.98
1:B:100:LEU:HD22	1:B:139:MET:HE2	1.46	0.98
2:C:159:ILE:HG12	2:C:310:LEU:HD13	1.42	0.97
2:C:654:LEU:HD11	2:C:657:ASP:HA	1.45	0.97
3:D:728:LEU:HD22	3:D:745:MET:HE1	1.43	0.97
1:B:86:VAL:HG23	1:B:123:ASN:CG	1.88	0.97
3:D:631:ILE:HG21	3:D:745:MET:HE3	1.46	0.97
2:C:211:LEU:HD22	2:C:304:LEU:HD12	1.45	0.97
3:D:901:GLN:HB2	3:D:905:PRO:HG3	1.44	0.97
2:C:631:SER:HB2	2:C:635:THR:H	1.30	0.96
2:C:672:VAL:HG22	2:C:868:ASP:OD2	1.64	0.96
2:C:841:ASN:HD21	2:C:845:ASN:H	1.12	0.96
3:D:1267:ARG:O	3:D:1269:PRO:HD3	1.63	0.96
2:C:438:ILE:CG2	2:C:470:PRO:HB3	1.95	0.96
1:B:149:TYR:HE1	1:B:169:ILE:HG22	1.30	0.96
2:C:796:GLU:HG3	3:D:681:ARG:HH12	1.28	0.96
2:C:13:ILE:HG22	2:C:14:PRO:HD2	1.46	0.96
3:D:948:ILE:H	3:D:948:ILE:HD13	1.29	0.96
2:C:208:VAL:HG11	2:C:218:VAL:HG11	1.45	0.95
2:C:579:VAL:HG21	2:C:887:GLU:HG3	1.47	0.95
2:C:918:LEU:HD22	2:C:968:ASP:HA	1.48	0.95
3:D:1232:GLU:HB3	3:D:1233:PRO:HD3	1.46	0.95
3:D:1096:THR:O	3:D:1100:VAL:HG23	1.66	0.95
1:A:16:GLN:HE21	1:A:17:GLY:H	1.06	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1045:ALA:HB1	2:C:1048:THR:HB	1.46	0.95
2:C:845:ASN:HD22	2:C:884:GLN:HE22	0.96	0.95
3:D:1080:LYS:HG3	3:D:1081:GLY:N	1.78	0.95
2:C:162:ILE:HA	2:C:171:TRP:HZ3	1.28	0.95
3:D:879:ARG:NH1	3:D:904:VAL:HA	1.81	0.95
2:C:101:ILE:HG22	2:C:102:HIS:H	1.31	0.94
3:D:1365:HIS:CG	3:D:1366:ASP:H	1.84	0.94
1:B:85:LEU:HA	1:B:123:ASN:HD21	1.33	0.94
2:C:140:ILE:HG22	2:C:333:ILE:HG12	1.49	0.94
2:C:161:SER:HB2	2:C:172:ILE:HG22	1.49	0.94
2:C:181:VAL:HG12	2:C:182:VAL:HG23	1.50	0.94
2:C:710:ILE:HD13	2:C:823:VAL:HB	1.48	0.94
2:C:168:ARG:HH21	2:C:266:ARG:HD3	1.33	0.94
2:C:676:ILE:CG2	2:C:873:PRO:HB3	1.97	0.93
3:D:860:LEU:C	3:D:862:ASP:H	1.67	0.93
3:D:879:ARG:HH11	3:D:904:VAL:HA	1.29	0.93
2:C:137:VAL:HG21	2:C:393:GLN:OE1	1.69	0.93
3:D:1263:LEU:HD23	3:D:1353:ILE:HG12	1.50	0.93
3:D:1126:MET:HG2	3:D:1127:ASP:H	1.32	0.93
2:C:12:VAL:HG12	2:C:13:ILE:N	1.80	0.93
2:C:401:LEU:HD21	2:C:543:ASN:HB2	1.49	0.93
2:C:551:GLU:HG3	2:C:906:PHE:CD2	2.04	0.93
2:C:845:ASN:HD22	2:C:884:GLN:NE2	1.66	0.93
2:C:77:PRO:HD3	2:C:93:PRO:HD3	1.47	0.93
2:C:564:MET:HE1	2:C:846:LYS:HG2	1.52	0.92
2:C:860:HIS:HD2	2:C:977:GLY:HA3	1.33	0.92
3:D:1038:GLN:HG3	3:D:1043:ARG:HD3	1.52	0.92
1:A:75:VAL:HA	1:A:78:ILE:HD12	1.50	0.92
2:C:768:SER:HB2	2:C:769:PRO:HD2	1.52	0.92
3:D:1157:LEU:HD12	3:D:1178:ALA:HA	1.50	0.92
3:D:966:GLU:HA	3:D:969:ASP:HB2	1.51	0.91
2:C:861:LEU:HG	2:C:862:PRO:HD2	1.49	0.91
3:D:1282:VAL:HG13	3:D:1315:LYS:HA	1.51	0.91
2:C:742:ILE:HG23	2:C:756:VAL:HG22	1.52	0.91
3:D:477:LEU:HA	3:D:480:GLU:HB3	1.51	0.91
3:D:699:VAL:H	3:D:756:GLN:NE2	1.69	0.91
3:D:721:VAL:HG12	3:D:722:GLU:H	1.33	0.91
1:A:194:LEU:HD23	1:A:195:THR:H	1.33	0.91
3:D:92:HIS:HA	3:D:517:VAL:HG12	1.49	0.91
3:D:129:PHE:CA	3:D:454:ALA:HB1	2.00	0.91
3:D:1278:ILE:HG22	3:D:1280:GLY:H	1.34	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:483:HIS:HA	3:D:489:ARG:HG3	1.51	0.91
3:D:1458:ASP:OD1	3:D:1460:LEU:HD23	1.70	0.91
3:D:1148:ARG:HB3	3:D:1189:VAL:CG2	2.00	0.90
2:C:1103:ASP:HB2	2:C:1108:PRO:HB2	1.49	0.90
3:D:1276:SER:H	3:D:1323:GLY:HA2	1.37	0.90
2:C:22:GLN:HE21	2:C:336:VAL:HG21	1.36	0.90
2:C:195:LEU:HD13	2:C:227:LEU:HD22	1.52	0.90
3:D:1004:VAL:O	3:D:1008:VAL:HG12	1.71	0.90
3:D:1274:VAL:N	3:D:1325:PRO:HG3	1.87	0.90
1:B:142:ARG:HG2	1:B:143:VAL:H	1.35	0.89
2:C:889:HIS:HE1	3:D:951:GLY:H	1.20	0.89
3:D:772:PRO:HG3	3:D:778:LEU:CB	2.02	0.89
3:D:836:VAL:O	3:D:865:THR:HG23	1.71	0.89
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.53	0.89
1:A:79:ILE:HD11	1:A:164:ILE:CD1	2.02	0.89
2:C:605:LYS:HG2	2:C:607:ASP:H	1.35	0.89
2:C:882:LEU:N	2:C:882:LEU:HD23	1.88	0.89
1:B:213:ALA:HA	1:B:216:ILE:HD12	1.54	0.89
2:C:762:LYS:HD2	2:C:786:LYS:HD2	1.51	0.89
3:D:483:HIS:N	3:D:484:PRO:HD2	1.87	0.89
2:C:31:GLN:HE21	2:C:39:ARG:HD2	1.38	0.89
3:D:127:LEU:HA	3:D:456:MET:HB2	1.54	0.89
1:A:179:GLN:HG3	2:C:934:PHE:CD2	2.08	0.89
2:C:1076:VAL:HG11	3:D:753:SER:HB2	1.53	0.89
3:D:1031:GLY:O	3:D:1032:ASN:HB3	1.72	0.89
3:D:1324:GLN:H	3:D:1325:PRO:HD2	1.35	0.89
2:C:12:VAL:CG1	2:C:13:ILE:H	1.81	0.89
2:C:897:LEU:HB2	2:C:921:ALA:HB2	1.55	0.89
1:A:164:ILE:O	1:A:164:ILE:HG13	1.73	0.88
2:C:162:ILE:HA	2:C:171:TRP:CZ3	2.08	0.88
2:C:969:LEU:HD11	3:D:953:ASP:H	1.38	0.88
2:C:577:PRO:HG2	2:C:580:MET:HB3	1.56	0.88
2:C:613:VAL:HA	2:C:620:LEU:O	1.73	0.88
2:C:428:ARG:HA	2:C:431:HIS:CD2	2.08	0.88
3:D:675:ARG:HA	3:D:678:GLU:HB3	1.55	0.88
3:D:1102:VAL:HG21	3:D:1425:VAL:HG13	1.55	0.88
3:D:1460:LEU:HB3	3:D:1466:ASN:ND2	1.89	0.88
3:D:824:ASN:O	3:D:830:ALA:HB1	1.74	0.88
2:C:730:SER:O	2:C:732:ALA:N	2.06	0.88
3:D:787:LEU:HD21	3:D:947:ILE:HD11	1.54	0.88
2:C:845:ASN:ND2	2:C:884:GLN:HE22	1.70	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:605:LYS:HG2	2:C:606:VAL:N	1.89	0.87
1:A:41:ARG:HG2	1:A:176:VAL:HG12	1.55	0.87
2:C:605:LYS:HA	2:C:612:ALA:CB	2.01	0.87
2:C:801:VAL:HG21	2:C:828:ALA:HB2	1.55	0.87
2:C:257:LEU:HD22	2:C:264:PRO:HD3	1.57	0.87
2:C:333:ILE:CD1	2:C:468:ARG:HE	1.87	0.87
2:C:816:LYS:HD2	2:C:817:PRO:HD2	1.56	0.87
3:D:811:GLU:HA	3:D:814:ALA:HB3	1.54	0.87
3:D:1060:SER:HB3	3:D:1066:LEU:HD22	1.54	0.87
2:C:491:GLU:HA	2:C:531:PHE:HA	1.56	0.87
2:C:836:GLY:HA3	2:C:1001:VAL:HG21	1.57	0.87
1:B:173:VAL:HA	1:B:200:THR:HG22	1.55	0.87
2:C:508:ILE:H	2:C:508:ILE:CD1	1.88	0.86
2:C:642:ARG:NH1	2:C:663:GLU:HB3	1.89	0.86
2:C:875:GLY:HA2	2:C:879:ARG:HG3	1.57	0.86
1:A:90:LEU:HD11	1:A:120:GLU:HG3	1.54	0.86
2:C:729:LEU:HD21	2:C:754:ILE:HG13	1.57	0.86
1:A:199:TRP:HD1	1:A:200:THR:H	1.23	0.86
2:C:5:ARG:HH22	2:C:10:ARG:NH1	1.73	0.86
2:C:184:MET:HE3	2:C:191:PHE:HZ	1.40	0.86
2:C:15:LEU:HD21	2:C:461:VAL:CG2	2.04	0.86
2:C:159:ILE:CG1	2:C:310:LEU:HD13	2.04	0.86
1:A:26:GLU:HB3	1:A:27:PRO:HD3	1.55	0.86
2:C:671:ASN:HA	2:C:993:PHE:HA	1.56	0.86
3:D:684:LYS:HD3	3:D:685:ASP:H	1.40	0.86
3:D:1124:PHE:CE2	3:D:1185:ARG:HG2	2.10	0.86
2:C:304:LEU:H	2:C:305:PRO:CD	1.89	0.86
2:C:266:ARG:HG2	2:C:268:ASP:H	1.38	0.86
3:D:558:LEU:HG	3:D:567:ILE:HD11	1.57	0.86
2:C:735:ARG:HA	2:C:737:LEU:O	1.76	0.86
2:C:263:ASP:HB3	2:C:264:PRO:HD3	1.56	0.85
2:C:726:ILE:HD12	2:C:726:ILE:H	1.38	0.85
3:D:890:VAL:CG1	3:D:922:LEU:HD13	2.06	0.85
2:C:605:LYS:NZ	2:C:611:ILE:HG13	1.90	0.85
3:D:1085:THR:C	3:D:1087:LEU:H	1.82	0.85
2:C:253:ALA:CA	2:C:256:TYR:HB2	2.06	0.85
3:D:691:LEU:HA	3:D:694:VAL:HB	1.59	0.85
3:D:1193:LEU:HG	3:D:1370:GLU:HB3	1.58	0.85
3:D:1365:HIS:ND1	3:D:1366:ASP:N	2.24	0.85
2:C:398:THR:O	2:C:635:THR:HG21	1.77	0.85
2:C:551:GLU:HA	2:C:906:PHE:HE2	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:841:ASN:ND2	2:C:845:ASN:H	1.73	0.85
2:C:915:LYS:HD2	2:C:968:ASP:HB3	1.56	0.85
1:A:161:ILE:HG12	1:A:162:ASN:OD1	1.75	0.85
1:B:78:ILE:HG13	1:B:129:ALA:HB2	1.58	0.85
2:C:183:THR:HG21	2:C:190:LYS:HG3	1.55	0.85
3:D:899:LEU:HD11	3:D:921:ARG:HD2	1.59	0.84
3:D:1016:TYR:HB3	3:D:1019:ASN:HB2	1.59	0.84
1:A:41:ARG:HH11	1:A:41:ARG:CB	1.88	0.84
1:B:105:PRO:HB3	1:B:133:GLU:H	1.40	0.84
2:C:100:LEU:HD21	2:C:368:THR:HA	1.58	0.84
2:C:946:ARG:NE	3:D:861:GLN:HE22	1.74	0.84
3:D:1267:ARG:O	3:D:1269:PRO:CD	2.26	0.84
2:C:446:GLY:HA2	2:C:449:ILE:HD11	1.58	0.84
2:C:836:GLY:HA3	2:C:1001:VAL:CG2	2.07	0.84
4:E:40:LEU:HD21	4:E:67:GLU:HA	1.59	0.84
2:C:523:ILE:C	2:C:525:ALA:H	1.85	0.84
3:D:827:ILE:O	3:D:828:VAL:HG23	1.76	0.84
2:C:142:ARG:HE	2:C:324:ASP:HA	1.41	0.84
2:C:564:MET:SD	2:C:840:ALA:HB1	2.17	0.84
2:C:613:VAL:HG13	2:C:620:LEU:H	1.42	0.84
1:A:199:TRP:CD1	1:A:200:THR:H	1.94	0.84
2:C:328:LEU:O	2:C:467:ILE:HG21	1.77	0.84
3:D:1048:LYS:HG2	3:D:1054:PHE:CE1	2.13	0.84
1:B:102:ALA:HB1	1:B:131:LEU:HD11	1.59	0.83
2:C:260:LEU:O	2:C:261:LEU:HD23	1.77	0.83
2:C:397:GLU:H	2:C:633:GLN:NE2	1.76	0.83
3:D:783:ARG:O	3:D:784:ASP:HB2	1.77	0.83
3:D:1087:LEU:HD12	3:D:1090:ALA:HB3	1.58	0.83
1:A:179:GLN:HE21	2:C:934:PHE:HB3	1.42	0.83
2:C:758:ARG:O	2:C:788:THR:HG23	1.78	0.83
3:D:483:HIS:H	3:D:484:PRO:CD	1.85	0.83
3:D:1271:ALA:HB3	3:D:1329:GLY:HA3	1.59	0.83
1:B:77:GLU:O	1:B:81:ASN:HB2	1.77	0.83
1:B:91:ASP:H	1:B:92:PRO:CD	1.91	0.83
2:C:253:ALA:HA	2:C:256:TYR:CB	2.07	0.83
2:C:267:TYR:HD1	2:C:273:GLY:HA3	1.43	0.83
3:D:1148:ARG:CB	3:D:1189:VAL:HG21	2.09	0.83
1:B:150:VAL:HG11	1:B:154:ARG:HG2	1.59	0.83
2:C:533:ASP:HB3	2:C:538:GLN:NE2	1.93	0.83
3:D:1035:GLN:HA	3:D:1035:GLN:NE2	1.89	0.83
1:B:90:LEU:HD11	1:B:118:ASP:HA	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:97:ARG:HG2	2:C:112:GLU:H	1.42	0.83
2:C:632:ASN:HB2	2:C:633:GLN:NE2	1.94	0.83
2:C:1052:MET:O	2:C:1053:LEU:HD13	1.79	0.83
3:D:721:VAL:HG12	3:D:722:GLU:N	1.92	0.83
3:D:1016:TYR:HA	3:D:1019:ASN:ND2	1.94	0.83
2:C:920:GLU:HG2	2:C:921:ALA:H	1.43	0.83
2:C:15:LEU:HD12	2:C:16:PRO:HD2	1.60	0.82
1:A:88:ARG:HB2	1:A:122:MET:SD	2.19	0.82
2:C:605:LYS:CA	2:C:612:ALA:HB3	2.01	0.82
3:D:89:ARG:O	3:D:520:LEU:HD11	1.76	0.82
2:C:861:LEU:CG	2:C:862:PRO:HD2	2.09	0.82
3:D:1275:ILE:HA	3:D:1323:GLY:N	1.95	0.82
3:D:1324:GLN:H	3:D:1325:PRO:CD	1.92	0.82
2:C:749:VAL:HG11	2:C:792:VAL:HG21	1.58	0.82
3:D:1104:HIS:C	3:D:1106:ILE:H	1.86	0.82
2:C:102:HIS:HD2	2:C:106:GLY:HA3	1.42	0.82
2:C:860:HIS:CD2	2:C:977:GLY:HA3	2.15	0.82
2:C:940:GLU:HA	2:C:973:VAL:HG21	1.61	0.82
3:D:709:HIS:ND1	3:D:1232:GLU:HG3	1.95	0.82
3:D:1311:ARG:HA	3:D:1324:GLN:O	1.80	0.82
2:C:801:VAL:CG2	2:C:828:ALA:HB2	2.09	0.82
3:D:728:LEU:HD22	3:D:745:MET:CE	2.09	0.82
3:D:790:TYR:CE2	3:D:906:GLN:HB3	2.14	0.82
3:D:1277:GLU:HG3	3:D:1304:TYR:OH	1.79	0.82
2:C:750:LYS:HB2	2:C:751:PRO:HD2	1.61	0.81
3:D:728:LEU:CD2	3:D:745:MET:HE1	2.09	0.81
2:C:642:ARG:HH11	2:C:654:LEU:HD23	1.45	0.81
3:D:638:LYS:HA	3:D:729:HIS:CG	2.15	0.81
2:C:1013:TYR:HE2	2:C:1018:GLN:HE22	1.28	0.81
3:D:1381:GLU:CD	3:D:1392:GLU:HG3	2.06	0.81
2:C:34:VAL:HG11	2:C:39:ARG:HG2	1.63	0.81
2:C:80:GLN:O	2:C:81:ASP:HB2	1.79	0.81
2:C:559:LEU:C	2:C:559:LEU:HD12	2.05	0.81
3:D:465:LEU:HD23	3:D:509:PRO:HB3	1.61	0.81
3:D:1237:LEU:HD11	3:D:1357:TYR:CE2	2.16	0.81
1:A:71:VAL:HG13	1:A:131:LEU:HB3	1.61	0.81
2:C:146:VAL:HG22	2:C:161:SER:HA	1.61	0.81
2:C:376:ARG:N	2:C:377:PRO:HD2	1.95	0.81
3:D:521:PRO:CG	3:D:522:PRO:HD3	2.09	0.81
3:D:1142:GLU:HA	3:D:1172:VAL:HG11	1.63	0.81
2:C:216:ASP:O	2:C:218:VAL:HG23	1.81	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:495:THR:HG22	2:C:496:ILE:H	1.45	0.81
2:C:969:LEU:CD1	3:D:952:ILE:HB	2.11	0.81
2:C:1055:ILE:H	2:C:1055:ILE:HD12	1.46	0.81
2:C:892:LEU:HD23	2:C:892:LEU:N	1.94	0.81
2:C:892:LEU:H	2:C:892:LEU:CD2	1.93	0.81
2:C:1008:ARG:NH1	2:C:1020:PRO:HB3	1.95	0.81
2:C:1034:GLU:CD	3:D:1097:ARG:HH12	1.89	0.81
3:D:1068:VAL:HG12	3:D:1070:GLU:HB2	1.63	0.81
2:C:574:ALA:O	2:C:667:ALA:HB1	1.82	0.80
3:D:1332:ASP:C	3:D:1334:HIS:H	1.90	0.80
2:C:256:TYR:C	2:C:260:LEU:HB3	2.06	0.80
2:C:331:ARG:O	2:C:467:ILE:HG12	1.82	0.80
2:C:177:GLU:HG2	2:C:181:VAL:H	1.47	0.80
3:D:1275:ILE:HG22	3:D:1322:ALA:HA	1.63	0.80
1:B:56:VAL:O	1:B:164:ILE:HG12	1.82	0.80
3:D:750:PRO:HG2	3:D:756:GLN:OE1	1.81	0.80
3:D:1043:ARG:HH21	3:D:1066:LEU:HD21	1.45	0.80
1:B:150:VAL:HB	1:B:168:ALA:HB3	1.61	0.80
2:C:344:PHE:C	2:C:346:VAL:H	1.89	0.80
2:C:439:CYS:HB2	2:C:468:ARG:NH1	1.96	0.80
2:C:569:VAL:HG13	2:C:569:VAL:O	1.80	0.80
3:D:1263:LEU:HD23	3:D:1353:ILE:CG1	2.11	0.80
2:C:363:SER:O	2:C:367:LEU:HB2	1.80	0.80
2:C:872:ASN:HD21	2:C:874:LEU:HB3	1.47	0.80
3:D:1221:ALA:HB2	3:D:1475:ALA:HB1	1.63	0.80
2:C:602:GLU:H	2:C:647:GLN:HA	1.46	0.80
3:D:969:ASP:O	3:D:972:LEU:HB2	1.81	0.80
2:C:836:GLY:C	2:C:837:ASP:OD2	2.25	0.80
3:D:1069:LEU:C	3:D:1071:TYR:H	1.89	0.80
2:C:21:ILE:HG23	2:C:460:ARG:NH2	1.96	0.80
2:C:172:ILE:HD11	2:C:184:MET:SD	2.21	0.80
2:C:613:VAL:HG12	2:C:615:TYR:H	1.46	0.80
3:D:569:ASN:O	3:D:572:ARG:HG2	1.81	0.80
3:D:864:VAL:HG12	3:D:874:GLU:O	1.82	0.80
3:D:1155:GLU:HB3	3:D:1160:ARG:HA	1.64	0.80
3:D:1275:ILE:HA	3:D:1323:GLY:H	1.46	0.80
3:D:1451:ALA:HA	3:D:1456:LYS:HG3	1.62	0.80
2:C:184:MET:HE3	2:C:191:PHE:CZ	2.17	0.79
2:C:519:GLY:C	2:C:521:PRO:HD3	2.07	0.79
1:A:120:GLU:CB	1:A:122:MET:HE1	2.13	0.79
2:C:1038:TRP:CD1	3:D:1100:VAL:HG11	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:518:PRO:HA	3:D:544:TYR:CZ	2.16	0.79
2:C:77:PRO:HD3	2:C:93:PRO:CD	2.11	0.79
3:D:662:GLU:HG3	3:D:670:VAL:HG23	1.64	0.79
3:D:688:TRP:HA	3:D:688:TRP:CE3	2.16	0.79
3:D:840:LYS:CB	3:D:846:PRO:HA	2.13	0.79
2:C:673:LEU:O	2:C:868:ASP:HB2	1.81	0.79
3:D:507:ASN:O	3:D:508:ARG:HG2	1.82	0.79
3:D:770:LEU:H	3:D:770:LEU:CD1	1.95	0.79
2:C:57:GLY:H	2:C:356:ARG:NH1	1.79	0.79
2:C:134:ARG:HA	2:C:394:PHE:O	1.82	0.79
3:D:858:LEU:HD11	3:D:865:THR:HG21	1.64	0.79
3:D:860:LEU:C	3:D:862:ASP:N	2.37	0.79
2:C:399:ASN:ND2	2:C:401:LEU:H	1.81	0.79
3:D:1404:LEU:O	3:D:1408:LEU:HB2	1.83	0.79
3:D:1482:VAL:O	3:D:1483:ARG:HG3	1.83	0.79
1:B:25:LEU:HD11	1:B:28:LEU:HD12	1.65	0.79
2:C:200:LEU:HD13	2:C:290:LEU:HD13	1.65	0.79
3:D:772:PRO:HD2	3:D:776:GLU:O	1.83	0.79
3:D:508:ARG:O	3:D:510:GLU:HG3	1.84	0.78
3:D:1102:VAL:CG2	3:D:1425:VAL:HG13	2.13	0.78
2:C:469:THR:HG22	2:C:484:VAL:HG23	1.63	0.78
2:C:1012:PRO:HB3	2:C:1023:GLY:HA3	1.64	0.78
3:D:1049:PRO:HD3	3:D:1076:HIS:ND1	1.98	0.78
1:B:33:GLY:HA2	1:B:194:LEU:HD23	1.64	0.78
2:C:1055:ILE:HG22	2:C:1066:ALA:HB2	1.65	0.78
3:D:1330:ALA:HB3	3:D:1333:PRO:HG3	1.63	0.78
3:D:669:ASN:O	3:D:672:ALA:HB3	1.83	0.78
3:D:860:LEU:HA	3:D:877:PRO:CG	2.08	0.78
3:D:1157:LEU:O	3:D:1157:LEU:HD23	1.82	0.78
2:C:493:ARG:HH12	3:D:1070:GLU:HA	1.49	0.78
1:B:95:ARG:HD2	1:B:95:ARG:O	1.83	0.78
2:C:491:GLU:O	2:C:509:ALA:HB1	1.84	0.78
3:D:776:GLU:HB3	3:D:912:LYS:HE3	1.66	0.78
2:C:722:ILE:HD12	2:C:821:GLU:CD	2.08	0.78
3:D:1145:LEU:HB2	3:D:1172:VAL:HG13	1.66	0.78
1:A:41:ARG:HE	2:C:860:HIS:CE1	2.02	0.78
2:C:139:GLN:OE1	2:C:414:GLY:HA3	1.84	0.78
2:C:475:LYS:CB	2:C:527:GLU:H	1.96	0.78
2:C:571:LEU:HD12	2:C:571:LEU:N	1.99	0.78
3:D:705:ALA:HB3	3:D:706:PRO:HD2	1.66	0.78
1:A:25:LEU:HD12	1:A:28:LEU:HD21	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:274:ARG:HG3	2:C:275:TYR:HD1	1.49	0.77
2:C:565:GLN:HE21	2:C:668:LEU:HD12	1.49	0.77
2:C:722:ILE:HD13	2:C:823:VAL:HG23	1.66	0.77
2:C:950:LEU:HB3	3:D:1019:ASN:OD1	1.85	0.77
3:D:1354:GLN:HE21	3:D:1369:ILE:CD1	1.97	0.77
1:A:161:ILE:HG12	1:A:162:ASN:CG	2.10	0.77
2:C:66:LEU:HD23	2:C:355:VAL:HG21	1.66	0.77
2:C:460:ARG:HD2	2:C:464:LEU:CD2	2.14	0.77
3:D:709:HIS:CE1	3:D:1232:GLU:HG3	2.20	0.77
2:C:676:ILE:HG23	2:C:873:PRO:HB3	1.65	0.77
3:D:659:LYS:O	3:D:659:LYS:HD3	1.83	0.77
3:D:890:VAL:HG11	3:D:922:LEU:CD1	2.10	0.77
2:C:796:GLU:HG3	3:D:681:ARG:NH1	1.98	0.77
2:C:355:VAL:O	2:C:359:MET:HG2	1.84	0.77
2:C:101:ILE:HG22	2:C:102:HIS:N	1.98	0.77
3:D:630:VAL:O	3:D:725:SER:HA	1.83	0.77
2:C:399:ASN:C	2:C:399:ASN:HD22	1.93	0.77
2:C:997:LEU:O	2:C:999:HIS:N	2.17	0.77
3:D:997:TRP:HA	3:D:1000:THR:HG22	1.67	0.77
3:D:1077:GLY:O	3:D:1080:LYS:HG2	1.85	0.77
1:B:147:VAL:HG23	1:B:148:GLY:H	1.49	0.77
2:C:613:VAL:HG12	2:C:615:TYR:N	1.99	0.77
2:C:974:LEU:HD23	2:C:987:ILE:HB	1.67	0.77
3:D:795:VAL:HA	3:D:862:ASP:CB	2.14	0.77
2:C:769:PRO:O	2:C:771:GLU:N	2.18	0.77
1:B:91:ASP:H	1:B:92:PRO:HD2	1.48	0.76
2:C:358:ARG:HB2	2:C:372:LEU:HD23	1.67	0.76
2:C:525:ALA:HB1	2:C:526:PRO:HD2	1.65	0.76
3:D:75:ARG:O	3:D:77:GLY:N	2.18	0.76
1:A:141:VAL:HG22	1:A:142:ARG:O	1.85	0.76
1:A:142:ARG:O	1:A:143:VAL:HG13	1.86	0.76
2:C:743:VAL:HG11	2:C:800:VAL:HG21	1.68	0.76
3:D:1281:VAL:HG12	3:D:1282:VAL:CG2	2.15	0.76
2:C:567:GLN:O	2:C:997:LEU:HA	1.85	0.76
1:A:159:ASP:O	1:A:161:ILE:HG22	1.85	0.76
1:A:161:ILE:HG23	1:A:162:ASN:N	2.00	0.76
2:C:807:ARG:O	2:C:810:ASP:HB2	1.84	0.76
1:B:85:LEU:HA	1:B:123:ASN:ND2	2.00	0.76
2:C:915:LYS:O	2:C:919:ALA:N	2.14	0.76
3:D:590:PRO:C	3:D:600:LEU:HD21	2.09	0.76
1:B:97:THR:HG22	1:B:98:LEU:H	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:283:VAL:HG12	2:C:284:GLY:H	1.50	0.76
2:C:595:LEU:HG	2:C:655:LEU:HD22	1.68	0.76
2:C:597:ALA:HA	2:C:614:ARG:HH12	1.51	0.76
3:D:731:LEU:HD13	3:D:931:LEU:HD12	1.67	0.76
3:D:1097:ARG:HH11	3:D:1097:ARG:HG3	1.49	0.76
3:D:1408:LEU:C	3:D:1410:ALA:H	1.92	0.76
3:D:1102:VAL:HG21	3:D:1425:VAL:HG22	1.67	0.76
3:D:1332:ASP:O	3:D:1334:HIS:N	2.15	0.76
3:D:1020:PRO:HB2	3:D:1023:VAL:CB	2.10	0.76
2:C:399:ASN:ND2	2:C:399:ASN:C	2.43	0.76
3:D:10:ILE:HG12	3:D:11:ALA:H	1.49	0.76
3:D:805:ALA:HB3	3:D:827:ILE:HA	1.68	0.76
1:A:205:THR:HG23	1:A:206:PRO:HD2	1.65	0.75
2:C:161:SER:CB	2:C:172:ILE:HG22	2.15	0.75
2:C:291:VAL:HB	2:C:299:LYS:HG3	1.67	0.75
2:C:376:ARG:H	2:C:377:PRO:CD	2.00	0.75
2:C:758:ARG:HH11	2:C:758:ARG:HG3	1.51	0.75
2:C:889:HIS:C	2:C:891:GLY:H	1.92	0.75
3:D:797:LYS:O	3:D:799:LYS:N	2.19	0.75
3:D:905:PRO:O	3:D:906:GLN:HB2	1.84	0.75
3:D:909:ASN:O	3:D:912:LYS:HB3	1.87	0.75
3:D:1063:ARG:C	3:D:1063:ARG:HD3	2.11	0.75
1:A:30:ARG:H	1:A:30:ARG:HD3	1.52	0.75
2:C:911:GLU:O	2:C:915:LYS:HG2	1.86	0.75
3:D:1349:LEU:HG	3:D:1376:MET:HE1	1.69	0.75
2:C:474:VAL:HG13	2:C:530:GLU:HA	1.67	0.75
2:C:525:ALA:O	2:C:527:GLU:N	2.19	0.75
2:C:755:LEU:HB3	2:C:790:LEU:HD23	1.67	0.75
2:C:869:VAL:HG21	2:C:871:LEU:HD13	1.66	0.75
2:C:943:VAL:HG21	2:C:973:VAL:HG13	1.65	0.75
3:D:1266:ALA:O	3:D:1267:ARG:HG3	1.85	0.75
1:B:44:LEU:O	1:B:173:VAL:HG21	1.87	0.75
2:C:20:GLU:CD	2:C:461:VAL:HG22	2.12	0.75
2:C:168:ARG:NH2	2:C:266:ARG:HD3	2.00	0.75
2:C:262:ALA:CB	2:C:266:ARG:HD2	2.12	0.75
3:D:659:LYS:NZ	3:D:663:GLU:HB2	2.01	0.75
2:C:115:LEU:HD12	2:C:116:GLY:H	1.51	0.75
2:C:810:ASP:OD1	2:C:811:PRO:HD2	1.86	0.75
3:D:1015:ASN:O	3:D:1016:TYR:CG	2.39	0.75
3:D:1063:ARG:HH11	3:D:1063:ARG:HG3	1.50	0.75
1:B:212:GLN:O	1:B:216:ILE:HG13	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:920:GLU:O	2:C:922:PHE:N	2.19	0.75
3:D:860:LEU:O	3:D:862:ASP:N	2.20	0.75
3:D:969:ASP:HA	3:D:972:LEU:HD12	1.67	0.75
3:D:1149:VAL:HG23	3:D:1166:TYR:CD2	2.21	0.75
2:C:1009:SER:O	2:C:1010:THR:HG23	1.86	0.75
3:D:699:VAL:H	3:D:756:GLN:HE21	1.33	0.75
3:D:972:LEU:O	3:D:975:ILE:HG22	1.85	0.75
3:D:1108:VAL:O	3:D:1218:ILE:HD13	1.87	0.75
2:C:48:PHE:CE2	2:C:71:TYR:HB3	2.22	0.74
3:D:1274:VAL:H	3:D:1325:PRO:HG3	1.52	0.74
2:C:804:LEU:HD12	2:C:805:ARG:H	1.51	0.74
1:B:89:PHE:HD1	1:B:94:TRP:HB3	1.52	0.74
2:C:614:ARG:CZ	2:C:623:HIS:HE1	2.00	0.74
2:C:755:LEU:HD23	2:C:792:VAL:HG23	1.70	0.74
2:C:438:ILE:CD1	2:C:470:PRO:HD3	2.15	0.74
3:D:643:GLY:HA3	3:D:727:GLN:H	1.52	0.74
1:A:86:VAL:HG13	1:A:122:MET:HB2	1.68	0.74
2:C:208:VAL:HG11	2:C:218:VAL:CG1	2.18	0.74
2:C:862:PRO:HA	2:C:975:TYR:CE1	2.23	0.74
2:C:910:THR:HG22	2:C:912:PRO:HD2	1.70	0.74
3:D:518:PRO:HA	3:D:544:TYR:CE1	2.22	0.74
1:A:16:GLN:NE2	1:A:17:GLY:H	1.82	0.74
2:C:31:GLN:NE2	2:C:39:ARG:HD2	2.02	0.74
2:C:184:MET:HB3	2:C:191:PHE:CZ	2.22	0.74
2:C:395:LYS:HG2	2:C:397:GLU:HG3	1.67	0.74
3:D:639:LEU:HD23	3:D:729:HIS:CD2	2.23	0.74
1:A:220:HIS:HA	1:A:223:TYR:CD2	2.23	0.74
3:D:552:ASN:C	3:D:554:LEU:H	1.93	0.74
2:C:401:LEU:HD21	2:C:543:ASN:CB	2.17	0.74
2:C:438:ILE:HG21	2:C:470:PRO:CB	2.12	0.74
1:B:105:PRO:HA	1:B:132:GLU:HA	1.70	0.74
2:C:62:GLY:C	2:C:103:LYS:HB2	2.13	0.74
2:C:467:ILE:O	2:C:469:THR:HG23	1.87	0.74
2:C:468:ARG:CD	2:C:468:ARG:H	2.01	0.74
3:D:1364:LEU:O	3:D:1365:HIS:O	2.06	0.74
2:C:243:ARG:HG3	2:C:244:PRO:HA	1.70	0.74
2:C:437:ARG:O	2:C:438:ILE:HG23	1.87	0.74
3:D:606:ILE:N	3:D:606:ILE:HD12	2.03	0.74
3:D:731:LEU:CD1	3:D:931:LEU:HD12	2.17	0.74
1:B:86:VAL:HG23	1:B:123:ASN:ND2	2.02	0.73
2:C:266:ARG:HG2	2:C:268:ASP:N	2.02	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1030:GLN:OE1	3:D:628:ARG:HG3	1.87	0.73
3:D:566:ILE:HG22	3:D:566:ILE:O	1.88	0.73
3:D:586:ARG:O	3:D:587:ARG:HD3	1.88	0.73
3:D:807:ALA:C	3:D:809:PRO:HD3	2.13	0.73
2:C:151:ASP:HA	2:C:158:TYR:HD2	1.54	0.73
2:C:461:VAL:HB	2:C:471:TYR:OH	1.89	0.73
3:D:721:VAL:CG1	3:D:722:GLU:H	2.00	0.73
2:C:142:ARG:HG3	2:C:147:TYR:OH	1.87	0.73
2:C:755:LEU:HD23	2:C:792:VAL:CG2	2.18	0.73
3:D:1278:ILE:HG22	3:D:1279:ASP:N	2.03	0.73
1:A:166:VAL:HG12	1:A:167:ASP:N	2.03	0.73
2:C:32:ALA:HB2	2:C:73:ILE:HD13	1.69	0.73
2:C:328:LEU:C	2:C:467:ILE:HD13	2.13	0.73
2:C:581:THR:O	2:C:584:GLU:HG2	1.87	0.73
1:B:35:THR:HG22	1:B:35:THR:O	1.87	0.73
2:C:750:LYS:HE3	3:D:680:GLN:HE22	1.54	0.73
3:D:675:ARG:HA	3:D:678:GLU:CB	2.18	0.73
3:D:1047:GLN:HA	3:D:1053:THR:HA	1.70	0.73
1:A:30:ARG:HD2	1:A:191:LEU:N	2.04	0.73
1:B:85:LEU:CA	1:B:123:ASN:HD21	2.01	0.73
2:C:283:VAL:HG12	2:C:284:GLY:N	2.03	0.73
2:C:333:ILE:HD11	2:C:468:ARG:HE	1.53	0.73
3:D:1148:ARG:HH12	3:D:1191:SER:HB2	1.54	0.73
1:B:62:LEU:HD22	1:B:162:ASN:OD1	1.89	0.73
2:C:66:LEU:HA	2:C:100:LEU:HA	1.69	0.73
2:C:55:GLU:O	2:C:56:GLU:HB3	1.89	0.73
2:C:775:ARG:HA	2:C:780:GLU:CB	2.18	0.73
2:C:263:ASP:CB	2:C:264:PRO:HD3	2.19	0.73
3:D:925:GLU:OE1	3:D:925:GLU:N	2.22	0.72
4:E:91:ARG:HB3	4:E:92:LEU:HD12	1.71	0.72
2:C:355:VAL:HG23	2:C:372:LEU:HD22	1.71	0.72
3:D:89:ARG:C	3:D:520:LEU:HD21	2.13	0.72
3:D:1012:PHE:HB2	3:D:1020:PRO:HG2	1.71	0.72
3:D:1364:LEU:HD23	3:D:1365:HIS:H	1.53	0.72
2:C:17:PRO:HD2	2:C:20:GLU:HB2	1.69	0.72
2:C:996:LYS:HE2	2:C:1000:MET:HE3	1.71	0.72
3:D:87:ARG:HA	3:D:522:PRO:HG2	1.70	0.72
3:D:546:ARG:O	3:D:550:ARG:HB2	1.89	0.72
3:D:1008:VAL:HG21	3:D:1040:CYS:HB2	1.70	0.72
3:D:1135:LEU:H	3:D:1135:LEU:HD23	1.53	0.72
1:A:79:ILE:HD11	1:A:164:ILE:HD12	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:54:THR:HG21	1:B:144:ASP:HB2	1.72	0.72
2:C:1060:ILE:O	2:C:1061:GLU:C	2.33	0.72
3:D:1436:LEU:HB2	3:D:1458:ASP:OD2	1.88	0.72
2:C:9:ILE:HG22	2:C:10:ARG:N	2.05	0.72
2:C:424:GLY:O	2:C:427:VAL:HG23	1.89	0.72
2:C:508:ILE:HD13	2:C:508:ILE:N	1.95	0.72
2:C:946:ARG:HE	3:D:861:GLN:CD	1.98	0.72
3:D:547:LEU:HD13	3:D:577:ALA:O	1.89	0.72
1:A:66:SER:HB2	1:A:75:VAL:HG21	1.72	0.72
1:A:224:PHE:HE1	1:B:36:LEU:HD11	1.54	0.72
1:B:40:LEU:C	1:B:44:LEU:HD22	2.14	0.72
2:C:16:PRO:HA	2:C:586:ARG:HH22	1.53	0.72
2:C:140:ILE:CG2	2:C:333:ILE:HG12	2.19	0.72
2:C:369:PRO:C	2:C:371:LYS:H	1.98	0.72
2:C:605:LYS:HD2	2:C:607:ASP:CG	2.13	0.72
2:C:881:ASN:HD22	2:C:881:ASN:N	1.87	0.72
3:D:975:ILE:HA	3:D:978:ALA:HB3	1.70	0.72
1:B:58:ILE:HG23	1:B:139:MET:HG2	1.69	0.72
2:C:129:ILE:HD13	2:C:386:PHE:HB3	1.70	0.72
2:C:1032:PHE:HB2	3:D:623:VAL:HG23	1.71	0.72
3:D:1079:ARG:O	3:D:1082:GLY:N	2.21	0.72
3:D:518:PRO:HB3	3:D:544:TYR:CG	2.24	0.72
4:E:19:LEU:HD11	4:E:23:VAL:HG23	1.71	0.72
1:A:30:ARG:HA	1:A:192:ASP:OD1	1.89	0.72
3:D:1060:SER:CB	3:D:1066:LEU:HD22	2.19	0.72
3:D:1339:ALA:O	3:D:1340:LYS:HB2	1.89	0.72
1:B:194:LEU:CD1	1:B:196:LEU:HD13	2.20	0.71
2:C:115:LEU:HG	2:C:378:LEU:HD22	1.71	0.71
2:C:290:LEU:HD21	2:C:298:PHE:HD2	1.55	0.71
2:C:310:LEU:O	2:C:313:LEU:HD23	1.89	0.71
2:C:580:MET:HB2	2:C:584:GLU:CG	2.16	0.71
2:C:703:ILE:HD11	2:C:830:LYS:HE2	1.71	0.71
3:D:709:HIS:HA	3:D:1228:GLU:HB3	1.71	0.71
3:D:1009:PHE:HE1	3:D:1036:ILE:HG13	1.54	0.71
3:D:1104:HIS:HE1	3:D:1463:LEU:H	1.35	0.71
2:C:732:ALA:O	2:C:736:ASP:HB2	1.90	0.71
2:C:804:LEU:HD12	2:C:805:ARG:N	2.05	0.71
2:C:536:PRO:O	2:C:538:GLN:N	2.23	0.71
3:D:590:PRO:O	3:D:600:LEU:HD11	1.90	0.71
4:E:4:PRO:HB2	4:E:66:LYS:HE2	1.70	0.71
1:B:90:LEU:CD1	1:B:118:ASP:HA	2.19	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:31:GLN:NE2	2:C:39:ARG:HB3	2.05	0.71
3:D:1209:ASP:OD2	3:D:1212:MET:HE2	1.91	0.71
4:E:8:LYS:HE2	4:E:69:LEU:HD11	1.71	0.71
1:A:88:ARG:HD3	1:A:120:GLU:CD	2.14	0.71
1:A:120:GLU:HB3	1:A:122:MET:HE1	1.71	0.71
1:B:100:LEU:HD22	1:B:139:MET:CE	2.21	0.71
2:C:492:ASP:O	2:C:532:MET:HA	1.90	0.71
2:C:1051:GLU:HA	2:C:1055:ILE:CD1	2.21	0.71
3:D:856:GLY:O	3:D:857:LEU:HD13	1.89	0.71
3:D:1209:ASP:O	3:D:1210:LEU:HB3	1.89	0.71
2:C:511:ASP:OD1	2:C:516:ARG:HB2	1.89	0.71
2:C:588:VAL:O	2:C:589:ARG:HG2	1.91	0.71
2:C:963:LEU:O	2:C:966:LEU:N	2.23	0.71
3:D:772:PRO:HD3	3:D:778:LEU:H	1.54	0.71
3:D:1044:GLY:CA	3:D:1058:VAL:H	2.02	0.71
3:D:1075:SER:O	3:D:1078:ALA:HB3	1.91	0.71
3:D:1286:GLU:HG3	3:D:1291:LEU:HD11	1.70	0.71
2:C:100:LEU:HG	2:C:369:PRO:HD3	1.70	0.71
2:C:198:ARG:HG2	2:C:228:ALA:HA	1.71	0.71
2:C:711:GLU:HG2	2:C:822:VAL:HG22	1.71	0.71
2:C:929:ARG:HH11	2:C:936:VAL:H	1.35	0.71
1:A:72:LYS:HA	2:C:607:ASP:HB3	1.73	0.71
1:A:222:ASN:O	1:A:224:PHE:N	2.24	0.71
2:C:13:ILE:C	2:C:15:LEU:H	1.98	0.71
2:C:231:PRO:O	2:C:233:GLU:N	2.24	0.71
2:C:420:ARG:HD3	2:C:420:ARG:H	1.56	0.71
2:C:603:VAL:HG21	2:C:646:GLY:N	2.05	0.71
3:D:767:HIS:CE1	4:E:6:ILE:HG13	2.25	0.71
3:D:911:LEU:O	3:D:915:VAL:HG23	1.90	0.71
3:D:969:ASP:O	3:D:972:LEU:N	2.22	0.71
3:D:1000:THR:O	3:D:1004:VAL:HG23	1.90	0.71
3:D:1080:LYS:CG	3:D:1081:GLY:H	1.89	0.71
3:D:1085:THR:C	3:D:1087:LEU:N	2.48	0.71
2:C:165:LEU:HD22	2:C:334:ARG:HD3	1.73	0.71
2:C:987:ILE:HA	3:D:948:ILE:CG2	2.20	0.71
3:D:1018:PHE:HA	3:D:1024:MET:SD	2.30	0.71
1:B:77:GLU:OE1	1:B:77:GLU:HA	1.89	0.71
2:C:162:ILE:HG13	2:C:171:TRP:CH2	2.25	0.71
2:C:184:MET:HE2	2:C:196:LEU:HD22	1.70	0.71
2:C:630:ARG:CB	2:C:705:ILE:HD11	2.19	0.71
2:C:726:ILE:HD12	2:C:726:ILE:N	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:110:ALA:O	1:A:113:PHE:HB2	1.91	0.70
2:C:1051:GLU:HG3	2:C:1055:ILE:HD13	1.73	0.70
3:D:770:LEU:H	3:D:770:LEU:HD12	1.55	0.70
3:D:1110:GLU:O	3:D:1218:ILE:HD11	1.90	0.70
3:D:1365:HIS:CG	3:D:1366:ASP:N	2.55	0.70
3:D:1382:VAL:HG12	3:D:1383:THR:H	1.56	0.70
4:E:28:GLN:O	4:E:28:GLN:HG2	1.91	0.70
1:A:6:LEU:C	1:A:8:ALA:H	1.99	0.70
2:C:399:ASN:ND2	2:C:401:LEU:N	2.39	0.70
3:D:688:TRP:O	3:D:690:ALA:N	2.23	0.70
3:D:1286:GLU:HG3	3:D:1291:LEU:CD1	2.21	0.70
2:C:110:GLU:HG3	2:C:369:PRO:O	1.90	0.70
3:D:1482:VAL:HG12	4:E:21:VAL:HG21	1.72	0.70
2:C:290:LEU:HD21	2:C:298:PHE:CD2	2.27	0.70
2:C:358:ARG:HB2	2:C:372:LEU:CD2	2.20	0.70
2:C:640:ARG:HH11	2:C:640:ARG:HG3	1.56	0.70
2:C:659:PRO:HG2	2:C:660:ALA:H	1.56	0.70
2:C:1013:TYR:HE2	2:C:1018:GLN:NE2	1.88	0.70
3:D:806:PHE:H	3:D:827:ILE:HA	1.56	0.70
4:E:14:ASP:CG	4:E:15:SER:H	1.99	0.70
1:B:100:LEU:HD11	1:B:112:ASP:HB2	1.72	0.70
2:C:256:TYR:O	2:C:260:LEU:HB3	1.90	0.70
2:C:467:ILE:HG22	2:C:484:VAL:HG21	1.74	0.70
2:C:728:HIS:C	2:C:730:SER:H	1.99	0.70
3:D:684:LYS:HD3	3:D:685:ASP:N	2.06	0.70
3:D:1253:ILE:C	3:D:1255:GLN:H	1.97	0.70
2:C:8:ARG:HB3	2:C:9:ILE:HD12	1.73	0.70
2:C:546:LEU:HD22	2:C:584:GLU:OE2	1.90	0.70
2:C:567:GLN:HB2	2:C:997:LEU:HD22	1.74	0.70
1:A:161:ILE:HG23	1:A:162:ASN:H	1.55	0.70
2:C:78:PHE:CZ	2:C:812:GLY:HA3	2.26	0.70
2:C:614:ARG:CZ	2:C:623:HIS:CE1	2.75	0.70
2:C:743:VAL:HG23	2:C:755:LEU:O	1.92	0.70
3:D:500:ARG:O	3:D:504:ASP:HB2	1.92	0.70
3:D:793:THR:HB	3:D:879:ARG:NH1	2.05	0.70
1:A:211:ASN:O	1:A:214:VAL:HG22	1.91	0.70
2:C:831:ARG:HH12	2:C:1002:GLU:HB2	1.56	0.70
2:C:976:ASP:O	2:C:978:ARG:N	2.24	0.70
2:C:988:VAL:HG12	3:D:948:ILE:HG13	1.72	0.70
3:D:543:LEU:HD13	3:D:581:VAL:HA	1.74	0.70
2:C:94:LEU:O	2:C:115:LEU:HB3	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:946:ARG:NE	3:D:861:GLN:NE2	2.39	0.70
2:C:1067:TYR:CE1	2:C:1071:ILE:HD11	2.27	0.70
3:D:990:TYR:OH	3:D:1053:THR:HG23	1.91	0.70
1:B:14:THR:OG1	1:B:22:GLU:HB2	1.91	0.70
2:C:13:ILE:N	2:C:13:ILE:HD12	2.07	0.70
2:C:15:LEU:CD2	2:C:461:VAL:HG21	2.22	0.70
2:C:325:ILE:O	2:C:327:HIS:N	2.25	0.70
2:C:695:LEU:HD21	2:C:833:LEU:HB3	1.73	0.70
3:D:502:PHE:HZ	3:D:511:TRP:HZ2	1.37	0.70
1:A:62:LEU:HD12	1:A:62:LEU:N	2.02	0.69
1:B:124:PRO:HG2	1:B:125:ASP:OD2	1.91	0.69
2:C:164:PRO:HG2	2:C:168:ARG:HB3	1.72	0.69
2:C:929:ARG:NH1	2:C:936:VAL:H	1.90	0.69
3:D:9:ARG:HA	3:D:1457:LYS:HA	1.72	0.69
3:D:25(U):UNK:HA	3:D:40(U):UNK:O	1.92	0.69
1:A:18:ASP:O	1:A:19:HIS:CG	2.45	0.69
3:D:1484:PHE:CZ	4:E:18:ARG:HG3	2.27	0.69
1:A:184:ARG:HE	1:A:193:LYS:HD2	1.56	0.69
3:D:601:ARG:NH1	3:D:601:ARG:HA	2.07	0.69
3:D:1044:GLY:HA2	3:D:1058:VAL:HG23	1.72	0.69
3:D:1283:ARG:HG2	3:D:1283:ARG:HH11	1.57	0.69
3:D:1352:GLU:OE1	3:D:1355:LYS:HD2	1.92	0.69
3:D:1354:GLN:CD	3:D:1365:HIS:HB2	2.18	0.69
2:C:56:GLU:HB2	2:C:356:ARG:HH11	1.58	0.69
2:C:256:TYR:O	2:C:260:LEU:HD22	1.91	0.69
2:C:474:VAL:HG22	2:C:530:GLU:HA	1.74	0.69
2:C:753:ASP:O	2:C:791:ARG:HA	1.92	0.69
2:C:1107:ASN:N	2:C:1108:PRO:HD3	2.07	0.69
2:C:1113:GLU:C	2:C:1115:LEU:H	1.97	0.69
3:D:705:ALA:CB	3:D:706:PRO:CD	2.70	0.69
3:D:805:ALA:HB3	3:D:827:ILE:CB	2.22	0.69
1:B:41:ARG:HG2	1:B:176:VAL:HG12	1.73	0.69
2:C:95:TYR:CD2	2:C:114:PHE:HA	2.27	0.69
2:C:129:ILE:CD1	2:C:386:PHE:HB3	2.23	0.69
3:D:1061:SER:C	3:D:1063:ARG:H	2.00	0.69
1:A:111:VAL:C	1:A:113:PHE:H	2.01	0.69
1:B:76:VAL:HA	1:B:79:ILE:HB	1.73	0.69
2:C:198:ARG:CG	2:C:228:ALA:HA	2.23	0.69
2:C:843:HIS:HD2	2:C:884:GLN:HA	1.56	0.69
3:D:997:TRP:CD2	3:D:1057:PRO:HG3	2.27	0.69
3:D:1430:LEU:HD13	3:D:1441:PHE:CD2	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:41:ARG:HG2	1:A:176:VAL:CG1	2.23	0.69
1:B:111:VAL:C	1:B:113:PHE:H	2.01	0.69
1:B:188:ARG:HD3	1:B:191:LEU:HD21	1.73	0.69
2:C:95:TYR:HD2	2:C:114:PHE:HA	1.57	0.69
2:C:700:TYR:HB2	2:C:833:LEU:HD22	1.75	0.69
2:C:1001:VAL:HG11	3:D:724:GLN:HB3	1.75	0.69
2:C:1008:ARG:HG3	2:C:1009:SER:H	1.57	0.69
3:D:129:PHE:HA	3:D:454:ALA:CB	2.10	0.69
3:D:875:THR:HG23	3:D:879:ARG:HB3	1.75	0.69
3:D:986:ASP:O	3:D:989:ARG:HB3	1.92	0.69
3:D:1206:TYR:CD1	3:D:1367:LYS:HD2	2.28	0.69
1:B:14:THR:HB	1:B:22:GLU:N	2.07	0.69
2:C:13:ILE:CG2	2:C:14:PRO:HD2	2.20	0.69
2:C:397:GLU:HB2	2:C:633:GLN:HE21	1.58	0.69
2:C:603:VAL:HG23	2:C:604:VAL:H	1.57	0.69
2:C:852:ILE:H	2:C:852:ILE:HD13	1.56	0.69
3:D:1038:GLN:CG	3:D:1043:ARG:HD3	2.22	0.69
3:D:1139:SER:O	3:D:1142:GLU:HB3	1.93	0.69
3:D:1323:GLY:O	3:D:1324:GLN:HG2	1.91	0.69
2:C:202:TYR:HE1	2:C:304:LEU:HB3	1.58	0.69
2:C:266:ARG:C	2:C:268:ASP:H	1.99	0.69
3:D:699:VAL:HG12	3:D:717:GLN:HG3	1.75	0.69
1:A:130:THR:O	1:A:130:THR:HG22	1.93	0.68
1:B:114:THR:O	1:B:116:SER:N	2.22	0.68
1:B:175:ARG:HB3	1:B:199:TRP:HB2	1.73	0.68
2:C:17:PRO:HA	2:C:586:ARG:NH2	2.09	0.68
2:C:565:GLN:CG	2:C:995:MET:HE1	2.23	0.68
2:C:689:VAL:HG11	2:C:853:LEU:HD22	1.75	0.68
2:C:870:ILE:O	2:C:870:ILE:HG22	1.92	0.68
3:D:955:ALA:O	3:D:1063:ARG:HG3	1.92	0.68
3:D:1354:GLN:HE21	3:D:1369:ILE:HD12	1.56	0.68
1:B:142:ARG:HG2	1:B:143:VAL:N	2.07	0.68
3:D:808:THR:N	3:D:809:PRO:HD3	2.08	0.68
3:D:1005:THR:OG1	3:D:1037:ARG:HD2	1.93	0.68
1:A:166:VAL:HG12	1:A:167:ASP:H	1.58	0.68
1:B:149:TYR:CE1	1:B:169:ILE:HG22	2.22	0.68
2:C:399:ASN:HB3	2:C:568:ALA:HB3	1.74	0.68
2:C:676:ILE:HG21	2:C:873:PRO:HB3	1.75	0.68
3:D:639:LEU:N	3:D:729:HIS:CD2	2.61	0.68
3:D:659:LYS:HZ3	3:D:663:GLU:HB2	1.59	0.68
1:A:192:ASP:HB3	2:C:938:LYS:HD2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:168:ALA:HB1	1:B:170:PHE:CZ	2.28	0.68
2:C:110:GLU:HG2	2:C:369:PRO:CG	2.19	0.68
2:C:267:TYR:CD1	2:C:273:GLY:HA3	2.26	0.68
2:C:1005:MET:HG2	3:D:724:GLN:HG3	1.76	0.68
3:D:1058:VAL:HG12	3:D:1068:VAL:HG21	1.75	0.68
3:D:1108:VAL:HG21	3:D:1216:VAL:HG11	1.76	0.68
1:B:76:VAL:HB	3:D:872:ARG:HH22	1.58	0.68
2:C:255:ALA:C	2:C:257:LEU:H	1.99	0.68
2:C:676:ILE:O	2:C:677:MET:HB3	1.92	0.68
2:C:843:HIS:CD2	2:C:884:GLN:HA	2.28	0.68
4:E:9:LEU:HD23	4:E:69:LEU:HD13	1.74	0.68
2:C:946:ARG:CZ	2:C:984:GLU:HB2	2.24	0.68
3:D:674:ARG:O	3:D:678:GLU:HB2	1.93	0.68
3:D:687:VAL:O	3:D:690:ALA:HB2	1.94	0.68
1:A:227:PRO:HA	1:B:11:PHE:O	1.94	0.68
2:C:140:ILE:HD12	2:C:331:ARG:HD3	1.74	0.68
2:C:552:HIS:CD2	2:C:886:LEU:HD12	2.28	0.68
2:C:726:ILE:H	2:C:726:ILE:CD1	2.07	0.68
2:C:1020:PRO:O	2:C:1021:LEU:HG	1.93	0.68
3:D:864:VAL:HA	3:D:875:THR:O	1.93	0.68
4:E:30:LEU:HD12	4:E:37:ASN:HB2	1.76	0.68
1:B:44:LEU:HD23	1:B:198:ILE:HD11	1.76	0.68
2:C:241:LEU:O	2:C:242:LEU:HD12	1.94	0.68
2:C:943:VAL:O	2:C:946:ARG:N	2.25	0.68
3:D:462:GLN:HA	3:D:512:MET:CE	2.24	0.68
3:D:863:THR:C	3:D:864:VAL:HG23	2.19	0.68
4:E:13:VAL:HG21	4:E:19:LEU:HB2	1.75	0.68
1:A:187:GLN:O	1:A:188:ARG:HB3	1.93	0.68
1:B:103:GLU:O	1:B:135:GLY:HA3	1.94	0.68
3:D:1402:GLU:C	3:D:1404:LEU:H	2.02	0.68
1:A:57:TYR:C	1:A:57:TYR:CD2	2.71	0.68
1:A:194:LEU:CD2	1:A:195:THR:H	2.06	0.68
1:B:178:PHE:HB2	1:B:196:LEU:HD12	1.76	0.68
2:C:304:LEU:H	2:C:305:PRO:HD3	1.56	0.68
2:C:491:GLU:CG	2:C:510:THR:HB	2.24	0.68
2:C:682:TYR:CE1	2:C:851:LYS:HD2	2.29	0.68
2:C:842:ARG:HH21	2:C:887:GLU:CD	2.01	0.68
3:D:1043:ARG:HH21	3:D:1066:LEU:CD2	2.05	0.68
3:D:1167:LEU:HB2	3:D:1171:ASP:CB	2.23	0.68
1:B:19:HIS:O	1:B:206:PRO:HG2	1.94	0.67
2:C:531:PHE:O	2:C:532:MET:HB2	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:761:PHE:O	2:C:762:LYS:O	2.12	0.67
2:C:1095:LEU:O	2:C:1096:ALA:HB3	1.94	0.67
2:C:1105:LYS:C	2:C:1108:PRO:HD3	2.18	0.67
3:D:14:SER:HA	3:D:510:GLU:OE1	1.94	0.67
3:D:644:LEU:HD21	3:D:747:VAL:HG21	1.76	0.67
3:D:1148:ARG:HD2	3:D:1189:VAL:HG21	1.77	0.67
2:C:14:PRO:O	2:C:15:LEU:HB3	1.94	0.67
2:C:181:VAL:HG12	2:C:182:VAL:H	1.59	0.67
3:D:639:LEU:O	3:D:640:HIS:CB	2.42	0.67
3:D:1167:LEU:HB2	3:D:1171:ASP:HB2	1.75	0.67
3:D:1282:VAL:HG22	3:D:1315:LYS:CA	2.24	0.67
3:D:1305:LYS:H	3:D:1305:LYS:HD3	1.57	0.67
4:E:6:ILE:HD12	4:E:10:PHE:CE1	2.29	0.67
1:A:106:LYS:HE3	1:A:108:VAL:HG22	1.77	0.67
2:C:115:LEU:HD12	2:C:116:GLY:N	2.08	0.67
2:C:807:ARG:HA	2:C:821:GLU:HA	1.76	0.67
2:C:1004:LYS:HD3	3:D:744:GLN:NE2	2.09	0.67
3:D:795:VAL:HG22	3:D:876:ASN:OD1	1.95	0.67
1:A:98:LEU:O	1:A:99:ILE:HG13	1.94	0.67
1:B:89:PHE:CD1	1:B:94:TRP:HB3	2.29	0.67
2:C:872:ASN:HD21	2:C:874:LEU:CB	2.07	0.67
3:D:1283:ARG:HH21	3:D:1285:GLU:HG3	1.60	0.67
3:D:1348:TYR:O	3:D:1352:GLU:HB2	1.94	0.67
3:D:1460:LEU:HD13	3:D:1471:ARG:HH11	1.59	0.67
2:C:136:ILE:CG2	2:C:336:VAL:HG22	2.24	0.67
2:C:159:ILE:HD11	2:C:310:LEU:CD2	2.21	0.67
3:D:772:PRO:HD3	3:D:778:LEU:N	2.10	0.67
3:D:864:VAL:HG12	3:D:874:GLU:C	2.18	0.67
2:C:202:TYR:HE1	2:C:304:LEU:CB	2.06	0.67
2:C:688:ILE:HD12	2:C:871:LEU:HD12	1.76	0.67
2:C:839:LEU:O	2:C:994:ILE:HG22	1.95	0.67
3:D:538:SER:HA	3:D:541:ASN:ND2	2.08	0.67
3:D:589:SER:O	3:D:600:LEU:HG	1.95	0.67
1:B:78:ILE:CG1	1:B:129:ALA:HB2	2.24	0.67
1:B:86:VAL:N	1:B:123:ASN:HD21	1.92	0.67
2:C:157:ARG:H	2:C:157:ARG:HD3	1.59	0.67
1:A:111:VAL:CG2	1:A:125:ASP:H	2.06	0.67
1:B:151:PRO:HA	1:B:167:ASP:OD1	1.95	0.67
2:C:13:ILE:O	2:C:15:LEU:N	2.28	0.67
2:C:299:LYS:HD2	2:C:299:LYS:O	1.94	0.67
2:C:775:ARG:O	2:C:780:GLU:N	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:886:LEU:HD22	2:C:914:ILE:HD13	1.76	0.67
1:A:100:LEU:C	1:A:100:LEU:HD12	2.19	0.67
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.76	0.67
2:C:278:GLU:HG2	2:C:283:VAL:HG13	1.77	0.67
2:C:706:GLU:CD	2:C:707:ARG:H	2.02	0.67
2:C:772:ARG:NH1	2:C:776:SER:HB3	2.10	0.67
3:D:1281:VAL:HG12	3:D:1282:VAL:H	1.60	0.67
2:C:654:LEU:HD22	2:C:664:GLY:N	2.10	0.67
3:D:1008:VAL:HG13	3:D:1009:PHE:N	2.10	0.67
3:D:1206:TYR:O	3:D:1207:GLY:O	2.12	0.67
1:A:150:VAL:O	1:A:168:ALA:HB3	1.95	0.66
2:C:80:GLN:OE1	2:C:122:THR:HG23	1.95	0.66
2:C:304:LEU:N	2:C:305:PRO:CD	2.57	0.66
2:C:722:ILE:HA	2:C:758:ARG:HB2	1.77	0.66
3:D:1069:LEU:C	3:D:1071:TYR:N	2.51	0.66
3:D:1324:GLN:N	3:D:1325:PRO:CD	2.58	0.66
2:C:21:ILE:CD1	2:C:455:LEU:HD21	2.25	0.66
2:C:54:ILE:HG21	2:C:355:VAL:HG11	1.77	0.66
2:C:836:GLY:C	2:C:848:VAL:HG23	2.21	0.66
3:D:552:ASN:HA	3:D:555:LYS:HB3	1.76	0.66
3:D:669:ASN:OD1	3:D:671:LYS:HG2	1.94	0.66
1:A:221:LEU:HD11	1:B:217:LEU:HD23	1.76	0.66
1:B:30:ARG:HA	1:B:192:ASP:OD1	1.95	0.66
2:C:307:LEU:O	2:C:310:LEU:HB3	1.94	0.66
2:C:323:ASP:C	2:C:325:ILE:N	2.47	0.66
3:D:538:SER:HA	3:D:541:ASN:HD22	1.59	0.66
3:D:970:ARG:CZ	3:D:971:LYS:HE3	2.25	0.66
1:A:85:LEU:HA	1:A:123:ASN:HD21	1.59	0.66
2:C:446:GLY:HA2	2:C:449:ILE:CD1	2.26	0.66
2:C:565:GLN:HG3	2:C:995:MET:HE1	1.76	0.66
2:C:672:VAL:HG22	2:C:868:ASP:CG	2.20	0.66
2:C:813:VAL:HG11	2:C:815:LEU:HD11	1.77	0.66
1:A:15:THR:HG22	1:B:229:ALA:HB1	1.76	0.66
1:B:24:VAL:HG22	1:B:195:THR:HG23	1.78	0.66
3:D:648:MET:O	3:D:652:LEU:HD22	1.95	0.66
3:D:1110:GLU:H	3:D:1218:ILE:HD12	1.61	0.66
2:C:44:ILE:H	2:C:44:ILE:HD12	1.59	0.66
2:C:394:PHE:CE2	2:C:632:ASN:HB3	2.31	0.66
2:C:654:LEU:O	2:C:655:LEU:C	2.38	0.66
2:C:922:PHE:C	2:C:924:LEU:H	2.02	0.66
3:D:462:GLN:HA	3:D:512:MET:HE1	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:863:THR:O	3:D:864:VAL:HG23	1.96	0.66
1:B:66:SER:OG	1:B:67:THR:N	2.27	0.66
2:C:9:ILE:HG22	2:C:10:ARG:H	1.61	0.66
2:C:468:ARG:H	2:C:468:ARG:HD2	1.60	0.66
2:C:889:HIS:HE1	3:D:951:GLY:N	1.91	0.66
3:D:511:TRP:CD1	3:D:511:TRP:H	2.14	0.66
3:D:688:TRP:HA	3:D:688:TRP:HE3	1.59	0.66
3:D:765:SER:O	3:D:769:LEU:HB2	1.96	0.66
3:D:1110:GLU:HG3	3:D:1111:ALA:N	2.10	0.66
1:B:172:PRO:HB3	1:B:204:VAL:HB	1.78	0.66
3:D:578:VAL:C	3:D:580:ALA:H	2.02	0.66
3:D:907:GLU:HB3	3:D:911:LEU:CD2	2.26	0.66
3:D:975:ILE:O	3:D:975:ILE:HD13	1.95	0.66
3:D:1093:GLY:HA2	3:D:1097:ARG:HH21	1.59	0.66
3:D:1150:LEU:O	3:D:1164:GLY:HA2	1.96	0.66
3:D:1156:ALA:HB1	3:D:1183:GLU:HB3	1.77	0.66
2:C:183:THR:CG2	2:C:190:LYS:HG3	2.26	0.66
2:C:270:GLY:HA3	2:C:274:ARG:HG2	1.78	0.66
2:C:676:ILE:O	2:C:677:MET:CB	2.44	0.66
2:C:937:ASP:OD1	2:C:939:ARG:HD3	1.95	0.66
1:A:120:GLU:HB2	1:A:122:MET:HE1	1.77	0.66
1:B:26:GLU:CB	1:B:27:PRO:CD	2.70	0.66
2:C:285:LEU:CD2	2:C:286:SER:H	2.09	0.66
2:C:1026:GLN:HE21	3:D:674:ARG:HH21	1.43	0.66
3:D:1203:GLN:O	3:D:1204:LYS:HB2	1.96	0.66
2:C:149:THR:OG1	2:C:323:ASP:HA	1.96	0.65
2:C:570:PRO:C	2:C:571:LEU:HD12	2.21	0.65
2:C:101:ILE:CG2	2:C:102:HIS:H	2.07	0.65
2:C:211:LEU:HG	2:C:212:SER:N	2.08	0.65
2:C:327:HIS:C	2:C:329:GLY:H	2.04	0.65
2:C:402:SER:O	2:C:403:SER:C	2.39	0.65
2:C:491:GLU:CD	2:C:510:THR:HB	2.22	0.65
2:C:605:LYS:CG	2:C:606:VAL:H	1.87	0.65
2:C:858:MET:HE3	2:C:867:VAL:HG23	1.78	0.65
2:C:918:LEU:CD2	2:C:968:ASP:HA	2.25	0.65
3:D:890:VAL:HG12	3:D:891:GLY:H	1.61	0.65
3:D:924:MET:HE1	4:E:10:PHE:CD1	2.31	0.65
3:D:1237:LEU:HD11	3:D:1357:TYR:HE2	1.61	0.65
3:D:1252:ASP:C	3:D:1254:THR:H	2.04	0.65
3:D:1383:THR:HG23	3:D:1419:LYS:HE3	1.78	0.65
4:E:47:LYS:HE2	4:E:54:LEU:HD23	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:477:LEU:HA	3:D:480:GLU:CB	2.27	0.65
3:D:710:ARG:NH1	3:D:768:ASN:HD21	1.94	0.65
3:D:1016:TYR:CB	3:D:1020:PRO:HD3	2.22	0.65
3:D:1157:LEU:HD12	3:D:1178:ALA:CA	2.23	0.65
3:D:1225:VAL:O	3:D:1225:VAL:HG12	1.96	0.65
2:C:21:ILE:HD11	2:C:455:LEU:HD21	1.77	0.65
2:C:139:GLN:HA	2:C:411:SER:O	1.95	0.65
2:C:149:THR:HB	2:C:158:TYR:CE1	2.32	0.65
2:C:222:LEU:O	2:C:225:ALA:N	2.29	0.65
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.78	0.65
2:C:613:VAL:HG11	2:C:619:ARG:HA	1.78	0.65
2:C:873:PRO:O	2:C:877:PRO:HD2	1.97	0.65
2:C:1021:LEU:HD21	3:D:622:ARG:NE	2.12	0.65
3:D:769:LEU:HD22	3:D:779:ALA:HB2	1.78	0.65
3:D:906:GLN:OE1	3:D:906:GLN:N	2.29	0.65
3:D:911:LEU:H	3:D:911:LEU:HD22	1.61	0.65
3:D:1095:LEU:HD12	3:D:1099:LEU:HD13	1.76	0.65
3:D:1130:THR:O	3:D:1131:ARG:C	2.37	0.65
1:A:109:ARG:HB2	1:A:125:ASP:O	1.96	0.65
2:C:1055:ILE:CG2	2:C:1066:ALA:HB2	2.26	0.65
3:D:1079:ARG:O	3:D:1081:GLY:N	2.30	0.65
1:A:41:ARG:HH21	2:C:860:HIS:CD2	2.15	0.65
1:A:183:THR:O	1:A:184:ARG:HD3	1.95	0.65
3:D:1110:GLU:H	3:D:1218:ILE:CD1	2.09	0.65
1:A:82:LEU:CD2	1:A:128:ILE:HD13	2.27	0.65
2:C:717:LEU:HD13	2:C:762:LYS:HA	1.77	0.65
2:C:903:SER:HB2	2:C:909:ALA:HB2	1.79	0.65
2:C:1034:GLU:O	2:C:1037:VAL:N	2.29	0.65
3:D:1272:LYS:HA	3:D:1331:ILE:HA	1.78	0.65
3:D:1432:THR:OG1	3:D:1433:LYS:HD3	1.96	0.65
3:D:1476:GLY:C	3:D:1478:GLY:H	2.05	0.65
1:A:88:ARG:HB3	1:A:120:GLU:HB2	1.79	0.65
1:B:68:ILE:N	1:B:68:ILE:HD12	2.11	0.65
1:B:91:ASP:N	1:B:92:PRO:HD2	2.12	0.65
2:C:328:LEU:HB3	2:C:467:ILE:HG21	1.77	0.65
2:C:492:ASP:H	2:C:531:PHE:CB	2.09	0.65
2:C:950:LEU:O	2:C:951:GLY:C	2.40	0.65
2:C:1012:PRO:HB3	2:C:1022:GLY:O	1.96	0.65
2:C:1072:LYS:O	3:D:659:LYS:HE3	1.97	0.65
1:A:194:LEU:HD23	1:A:195:THR:N	2.10	0.65
1:B:213:ALA:HA	1:B:216:ILE:CD1	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:970:GLY:HA3	3:D:950:ILE:HD13	1.78	0.65
3:D:520:LEU:HB3	3:D:521:PRO:HD2	1.79	0.65
3:D:639:LEU:O	3:D:640:HIS:HB3	1.96	0.65
3:D:874:GLU:O	3:D:875:THR:O	2.15	0.65
3:D:1484:PHE:CE1	4:E:22:VAL:HG23	2.32	0.65
2:C:595:LEU:HG	2:C:655:LEU:CD2	2.27	0.65
2:C:892:LEU:HD12	2:C:967:PHE:CZ	2.33	0.65
2:C:981:GLU:CD	2:C:981:GLU:H	2.05	0.65
3:D:890:VAL:HA	3:D:926:LYS:HZ1	1.60	0.65
3:D:1119:ILE:N	3:D:1119:ILE:HD12	2.12	0.65
2:C:30:LEU:O	2:C:31:GLN:C	2.41	0.64
2:C:164:PRO:HD3	2:C:267:TYR:CD2	2.32	0.64
2:C:759:THR:HB	2:C:785:VAL:HG22	1.79	0.64
2:C:987:ILE:HA	3:D:948:ILE:HG21	1.79	0.64
2:C:1008:ARG:CG	2:C:1009:SER:H	2.10	0.64
3:D:691:LEU:C	3:D:693:GLU:N	2.52	0.64
3:D:1016:TYR:CA	3:D:1019:ASN:HD22	2.05	0.64
3:D:1354:GLN:O	3:D:1355:LYS:C	2.38	0.64
1:B:147:VAL:HG23	1:B:148:GLY:N	2.12	0.64
2:C:16:PRO:HA	2:C:586:ARG:NH2	2.12	0.64
2:C:141:HIS:CE1	2:C:332:ARG:HD3	2.32	0.64
3:D:691:LEU:C	3:D:693:GLU:H	2.03	0.64
3:D:1167:LEU:H	3:D:1167:LEU:CD2	2.11	0.64
1:A:194:LEU:HD23	1:A:196:LEU:H	1.62	0.64
2:C:525:ALA:HB1	2:C:526:PRO:CD	2.27	0.64
2:C:1067:TYR:O	2:C:1071:ILE:HD13	1.98	0.64
3:D:1008:VAL:HG13	3:D:1009:PHE:H	1.61	0.64
3:D:1137:LYS:O	3:D:1139:SER:N	2.29	0.64
2:C:136:ILE:HB	2:C:336:VAL:HG22	1.80	0.64
2:C:603:VAL:HG21	2:C:645:VAL:HA	1.79	0.64
3:D:638:LYS:O	3:D:639:LEU:HG	1.98	0.64
3:D:693:GLU:HG3	4:E:48:MET:HE1	1.80	0.64
3:D:979:TYR:C	3:D:981:MET:H	2.05	0.64
3:D:1048:LYS:HB3	3:D:1049:PRO:HD2	1.78	0.64
3:D:1134:ARG:HD2	3:D:1135:LEU:HD23	1.80	0.64
3:D:1238:THR:HG22	3:D:1240:ARG:H	1.62	0.64
2:C:184:MET:HG2	2:C:193:LEU:HD23	1.80	0.64
2:C:218:VAL:O	2:C:221:LEU:N	2.31	0.64
2:C:710:ILE:HG13	2:C:790:LEU:HD13	1.80	0.64
3:D:729:HIS:NE2	3:D:731:LEU:HB2	2.13	0.64
1:A:85:LEU:HD23	1:A:85:LEU:C	2.22	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:102:ALA:HB3	1:A:137:LEU:HB3	1.80	0.64
2:C:495:THR:HG22	2:C:496:ILE:N	2.12	0.64
2:C:497:ALA:C	2:C:502:PRO:HA	2.22	0.64
2:C:564:MET:SD	2:C:846:LYS:HB3	2.38	0.64
2:C:889:HIS:CE1	3:D:950:ILE:HG22	2.32	0.64
3:D:790:TYR:CD2	3:D:906:GLN:HB3	2.33	0.64
3:D:791:TYR:HE1	3:D:1024:MET:HG3	1.63	0.64
3:D:879:ARG:CG	3:D:904:VAL:HG22	2.16	0.64
1:A:84:GLU:O	1:A:85:LEU:C	2.40	0.64
2:C:64:LEU:HB3	2:C:359:MET:CE	2.28	0.64
2:C:140:ILE:CD1	2:C:331:ARG:HD3	2.28	0.64
2:C:613:VAL:HG22	2:C:620:LEU:C	2.21	0.64
2:C:875:GLY:CA	2:C:879:ARG:HG3	2.26	0.64
3:D:499:VAL:O	3:D:503:LEU:N	2.29	0.64
3:D:558:LEU:CG	3:D:567:ILE:HD11	2.27	0.64
3:D:877:PRO:O	3:D:880:ILE:HB	1.97	0.64
3:D:1104:HIS:HA	3:D:1223:GLY:HA3	1.80	0.64
1:B:215:ALA:O	1:B:219:GLU:HB2	1.97	0.64
2:C:7:GLY:O	2:C:8:ARG:HG3	1.97	0.64
2:C:18:LEU:O	2:C:408:ARG:HD3	1.97	0.64
2:C:333:ILE:CD1	2:C:468:ARG:NE	2.61	0.64
2:C:600:ASP:C	2:C:648:ARG:HB2	2.23	0.64
2:C:605:LYS:HE2	2:C:611:ILE:HG23	1.79	0.64
2:C:1051:GLU:HA	2:C:1055:ILE:HD12	1.77	0.64
3:D:793:THR:HB	3:D:879:ARG:CZ	2.27	0.64
3:D:879:ARG:CZ	3:D:905:PRO:HD2	2.27	0.64
3:D:1332:ASP:C	3:D:1334:HIS:N	2.56	0.64
1:A:156:GLY:O	1:A:163:ALA:HB1	1.98	0.64
2:C:25:SER:O	2:C:28:LYS:HG2	1.97	0.64
2:C:322:VAL:HG13	2:C:322:VAL:O	1.98	0.64
2:C:1011:GLY:O	2:C:1013:TYR:N	2.31	0.64
1:A:120:GLU:O	1:A:121:ILE:HD13	1.98	0.64
1:A:194:LEU:O	1:A:195:THR:HB	1.97	0.64
2:C:94:LEU:HD23	2:C:344:PHE:HZ	1.63	0.64
3:D:601:ARG:HD3	3:D:605:ASP:CG	2.23	0.64
3:D:836:VAL:HG11	3:D:858:LEU:CG	2.27	0.64
1:A:28:LEU:HD23	1:B:220:HIS:HE1	1.63	0.63
1:B:111:VAL:HG23	1:B:124:PRO:O	1.97	0.63
2:C:31:GLN:O	2:C:33:ASP:N	2.32	0.63
2:C:87:ASP:OD2	2:C:824:ARG:NH2	2.29	0.63
2:C:274:ARG:HG3	2:C:275:TYR:N	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:924:LEU:N	2:C:924:LEU:HD23	2.12	0.63
3:D:663:GLU:C	3:D:665:ALA:H	2.05	0.63
3:D:1081:GLY:O	3:D:1085:THR:HG23	1.97	0.63
3:D:1380:VAL:HG13	3:D:1397:GLU:HB2	1.80	0.63
1:A:93:ARG:O	1:A:94:TRP:HB3	1.96	0.63
1:A:184:ARG:NE	1:A:193:LYS:HD2	2.13	0.63
2:C:148:PHE:HA	2:C:159:ILE:HA	1.80	0.63
2:C:441:VAL:HB	3:D:1075:SER:HB2	1.80	0.63
2:C:457:ALA:C	2:C:459:ALA:H	2.07	0.63
2:C:460:ARG:HD2	2:C:464:LEU:HD22	1.81	0.63
2:C:915:LYS:O	2:C:916:GLU:C	2.41	0.63
3:D:638:LYS:CB	3:D:932:ASP:OD1	2.46	0.63
3:D:1108:VAL:HG13	3:D:1203:GLN:HA	1.79	0.63
3:D:1345:VAL:O	3:D:1348:TYR:N	2.31	0.63
4:E:14:ASP:OD1	4:E:18:ARG:HD2	1.98	0.63
1:A:88:ARG:HD3	1:A:120:GLU:OE2	1.99	0.63
1:A:164:ILE:O	1:A:164:ILE:CG1	2.43	0.63
1:B:44:LEU:CD2	1:B:198:ILE:HD11	2.27	0.63
1:B:88:ARG:HB2	1:B:122:MET:SD	2.38	0.63
1:B:98:LEU:O	1:B:140:GLU:HA	1.98	0.63
2:C:110:GLU:CB	2:C:369:PRO:HG2	2.28	0.63
2:C:246:ASP:O	2:C:248:PRO:HD3	1.97	0.63
2:C:551:GLU:HA	2:C:906:PHE:CE2	2.30	0.63
2:C:881:ASN:C	2:C:882:LEU:HD23	2.23	0.63
2:C:1055:ILE:H	2:C:1055:ILE:CD1	2.07	0.63
2:C:115:LEU:CG	2:C:378:LEU:HD22	2.29	0.63
2:C:148:PHE:CE1	2:C:309:TYR:CD2	2.87	0.63
2:C:149:THR:HG23	2:C:150:PRO:HD2	1.80	0.63
2:C:246:ASP:HB3	2:C:247:PRO:HD2	1.80	0.63
2:C:253:ALA:O	2:C:254:LEU:HB3	1.97	0.63
2:C:734:LEU:O	2:C:737:LEU:O	2.17	0.63
3:D:627:GLY:O	3:D:747:VAL:HG12	1.99	0.63
3:D:1202:CYS:SG	3:D:1203:GLN:N	2.69	0.63
1:A:223:TYR:CE1	1:B:9:PRO:HD2	2.33	0.63
2:C:141:HIS:NE2	2:C:332:ARG:HD3	2.14	0.63
2:C:439:CYS:CB	2:C:468:ARG:HH12	2.12	0.63
2:C:501:THR:O	2:C:502:PRO:C	2.41	0.63
2:C:924:LEU:O	2:C:928:LYS:HG3	1.98	0.63
2:C:1015:LEU:HD12	2:C:1016:ILE:HG12	1.80	0.63
4:E:38:THR:HG22	4:E:39:VAL:H	1.62	0.63
2:C:333:ILE:HD11	2:C:468:ARG:NE	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:595:LEU:HD21	2:C:623:HIS:HB3	1.80	0.63
2:C:862:PRO:HG3	2:C:925:TYR:OH	1.98	0.63
2:C:877:PRO:HG2	2:C:878:SER:H	1.64	0.63
3:D:970:ARG:HG3	3:D:971:LYS:N	2.14	0.63
3:D:1208:TYR:HA	3:D:1215:PRO:HA	1.81	0.63
1:A:19:HIS:HB2	1:A:200:THR:HA	1.81	0.63
1:A:102:ALA:HA	1:A:106:LYS:NZ	2.14	0.63
2:C:360:VAL:O	2:C:361:MET:C	2.41	0.63
2:C:1012:PRO:CB	2:C:1023:GLY:HA3	2.29	0.63
3:D:637:LEU:CB	3:D:641:GLN:HG3	2.29	0.63
3:D:1081:GLY:HA2	3:D:1084:ASP:HB2	1.79	0.63
1:A:56:VAL:HG11	1:A:82:LEU:CD1	2.28	0.63
1:B:193:LYS:O	1:B:193:LYS:HG2	1.98	0.63
2:C:212:SER:O	2:C:218:VAL:HG21	1.98	0.63
2:C:352:ALA:C	2:C:355:VAL:HG12	2.23	0.63
2:C:712:ALA:HB3	2:C:820:ARG:O	1.98	0.63
1:A:108:VAL:O	1:A:128:ILE:HB	1.98	0.63
2:C:605:LYS:HG2	2:C:607:ASP:N	2.10	0.63
2:C:969:LEU:HD13	3:D:952:ILE:CB	2.19	0.63
3:D:702:LEU:O	3:D:713:ILE:O	2.17	0.63
3:D:729:HIS:HE2	3:D:731:LEU:HB2	1.64	0.63
3:D:1267:ARG:O	3:D:1269:PRO:N	2.31	0.63
4:E:48:MET:O	4:E:54:LEU:HA	1.99	0.63
1:B:99:ILE:HG12	1:B:140:GLU:HG2	1.81	0.62
1:B:110:ALA:HA	1:B:113:PHE:HE1	1.63	0.62
1:B:125:ASP:O	1:B:126:LEU:HB3	1.97	0.62
2:C:852:ILE:HD13	2:C:852:ILE:N	2.13	0.62
2:C:861:LEU:HG	2:C:862:PRO:CD	2.27	0.62
2:C:1008:ARG:CG	2:C:1009:SER:N	2.61	0.62
3:D:103:TRP:O	3:D:104:PHE:CB	2.46	0.62
3:D:124:GLU:HA	3:D:456:MET:SD	2.40	0.62
3:D:770:LEU:HD12	3:D:770:LEU:N	2.14	0.62
3:D:866:THR:HA	3:D:873:LEU:O	1.98	0.62
3:D:1066:LEU:O	3:D:1068:VAL:N	2.32	0.62
3:D:1106:ILE:HG23	3:D:1201:VAL:H	1.63	0.62
1:A:126:LEU:HG	1:A:126:LEU:O	1.99	0.62
2:C:13:ILE:C	2:C:15:LEU:N	2.55	0.62
2:C:172:ILE:CD1	2:C:184:MET:SD	2.87	0.62
2:C:446:GLY:O	2:C:447:ALA:HB3	1.99	0.62
3:D:729:HIS:CE1	3:D:730:PRO:HG2	2.34	0.62
3:D:795:VAL:CG2	3:D:904:VAL:HG11	2.23	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1087:LEU:HA	3:D:1090:ALA:HB3	1.80	0.62
3:D:1108:VAL:HG11	3:D:1216:VAL:HG12	1.79	0.62
3:D:1279:ASP:HA	3:D:1318:ASP:O	2.00	0.62
1:A:104:GLY:HA2	1:A:135:GLY:H	1.64	0.62
1:A:177:ALA:O	1:A:178:PHE:HB3	1.98	0.62
1:A:210:LEU:O	1:A:213:ALA:HB3	1.99	0.62
2:C:162:ILE:CA	2:C:171:TRP:HZ3	2.07	0.62
2:C:631:SER:CB	2:C:635:THR:H	2.09	0.62
2:C:859:PRO:HD2	2:C:867:VAL:HG21	1.82	0.62
2:C:984:GLU:CG	3:D:945:SER:HA	2.29	0.62
3:D:696:HIS:CE1	4:E:48:MET:HG3	2.34	0.62
3:D:1087:LEU:HD13	3:D:1239:MET:HB2	1.79	0.62
3:D:1354:GLN:OE1	3:D:1365:HIS:HB2	1.99	0.62
4:E:38:THR:HG22	4:E:40:LEU:H	1.65	0.62
2:C:481:GLU:OE1	2:C:481:GLU:N	2.33	0.62
2:C:552:HIS:CE1	3:D:1065:GLY:HA2	2.33	0.62
2:C:760:SER:HB2	2:C:788:THR:HG21	1.80	0.62
2:C:881:ASN:N	2:C:881:ASN:ND2	2.46	0.62
2:C:1097:LEU:HD13	3:D:10:ILE:HD11	1.81	0.62
3:D:1212:MET:C	3:D:1214:ARG:H	2.07	0.62
3:D:1262:GLU:CD	3:D:1269:PRO:HB3	2.25	0.62
3:D:1322:ALA:O	3:D:1324:GLN:N	2.32	0.62
1:B:210:LEU:O	1:B:214:VAL:HG23	1.99	0.62
2:C:30:LEU:HA	2:C:44:ILE:HD13	1.80	0.62
2:C:84:ARG:HA	2:C:131:GLY:HA2	1.80	0.62
2:C:632:ASN:HB2	2:C:633:GLN:HE22	1.63	0.62
4:E:68:LEU:HA	4:E:73:LEU:CD1	2.28	0.62
1:A:44:LEU:HD13	1:A:198:ILE:HG13	1.82	0.62
1:B:56:VAL:HB	1:B:164:ILE:HD11	1.81	0.62
2:C:408:ARG:NH2	2:C:457:ALA:HA	2.15	0.62
3:D:1054:PHE:CE2	3:D:1073:ILE:HG13	2.34	0.62
3:D:1229:SER:O	3:D:1233:PRO:HD2	1.99	0.62
2:C:99:GLN:HA	2:C:108:ILE:O	1.98	0.62
2:C:159:ILE:HB	2:C:174:LEU:HB2	1.80	0.62
2:C:162:ILE:HD12	2:C:162:ILE:N	2.14	0.62
2:C:336:VAL:HA	2:C:339:LEU:HD13	1.80	0.62
2:C:389:SER:C	2:C:391:LEU:H	2.07	0.62
2:C:570:PRO:HB3	2:C:660:ALA:HB2	1.80	0.62
2:C:579:VAL:HG23	2:C:842:ARG:HH22	1.64	0.62
2:C:605:LYS:HZ1	2:C:611:ILE:HG13	1.64	0.62
2:C:687:ALA:HB1	2:C:850:ALA:HB2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:839:LEU:HD23	2:C:849:VAL:HG23	1.80	0.62
2:C:981:GLU:HB3	2:C:982:PRO:HD2	1.81	0.62
2:C:20:GLU:OE1	2:C:461:VAL:HG22	2.00	0.62
2:C:434:HIS:C	2:C:436:GLY:H	2.08	0.62
2:C:707:ARG:HG3	2:C:707:ARG:O	1.98	0.62
2:C:1054:THR:HB	2:C:1055:ILE:HD12	1.81	0.62
3:D:98:PRO:CB	3:D:574:LEU:HD23	2.30	0.62
3:D:795:VAL:HG22	3:D:876:ASN:ND2	2.14	0.62
3:D:880:ILE:O	3:D:883:ALA:HB3	1.99	0.62
3:D:1035:GLN:HE21	3:D:1035:GLN:CA	2.04	0.62
3:D:1284:ILE:O	3:D:1284:ILE:HG22	2.00	0.62
3:D:1404:LEU:C	3:D:1408:LEU:HB2	2.25	0.62
3:D:1484:PHE:CE2	4:E:18:ARG:HG3	2.34	0.62
1:B:150:VAL:HB	1:B:168:ALA:CB	2.30	0.62
1:B:176:VAL:HG13	1:B:198:ILE:HD12	1.81	0.62
2:C:21:ILE:HD12	2:C:460:ARG:HH21	1.63	0.62
2:C:352:ALA:O	2:C:355:VAL:HG12	2.00	0.62
2:C:540:PHE:CE1	2:C:906:PHE:HE1	2.17	0.62
2:C:944:LEU:HD21	2:C:963:LEU:HD22	1.81	0.62
2:C:1087:VAL:O	2:C:1091:GLU:HB2	1.99	0.62
3:D:578:VAL:HG12	3:D:582:ILE:HD11	1.80	0.62
3:D:582:ILE:O	3:D:584:ASN:N	2.33	0.62
3:D:699:VAL:N	3:D:756:GLN:NE2	2.44	0.62
3:D:805:ALA:HB3	3:D:827:ILE:CA	2.29	0.62
3:D:1282:VAL:CG1	3:D:1315:LYS:HA	2.27	0.62
3:D:1426:THR:C	3:D:1428:SER:H	2.08	0.62
1:A:161:ILE:HD13	1:A:162:ASN:HD21	1.65	0.62
1:A:191:LEU:HD23	1:A:191:LEU:H	1.65	0.62
1:B:91:ASP:N	1:B:92:PRO:CD	2.63	0.62
2:C:255:ALA:C	2:C:257:LEU:N	2.57	0.62
2:C:310:LEU:O	2:C:313:LEU:N	2.32	0.62
1:A:56:VAL:HG11	1:A:82:LEU:HD12	1.81	0.61
2:C:285:LEU:HD22	2:C:286:SER:H	1.63	0.61
2:C:497:ALA:HA	2:C:502:PRO:HG3	1.81	0.61
3:D:498:VAL:O	3:D:502:PHE:HB2	2.00	0.61
3:D:730:PRO:O	3:D:731:LEU:C	2.42	0.61
3:D:795:VAL:HG22	3:D:876:ASN:CG	2.25	0.61
3:D:936:TYR:C	3:D:936:TYR:CD2	2.77	0.61
3:D:952:ILE:O	3:D:954:ASP:O	2.18	0.61
3:D:1044:GLY:HA2	3:D:1058:VAL:H	1.65	0.61
1:B:176:VAL:HG13	1:B:198:ILE:CD1	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:181:VAL:HG12	2:C:182:VAL:N	2.15	0.61
2:C:202:TYR:CE1	2:C:304:LEU:HD13	2.35	0.61
2:C:399:ASN:HD21	2:C:401:LEU:HB3	1.65	0.61
2:C:813:VAL:CG1	2:C:815:LEU:HD11	2.31	0.61
3:D:688:TRP:C	3:D:690:ALA:H	2.07	0.61
3:D:701:LEU:HA	3:D:715:ALA:HB2	1.82	0.61
3:D:1020:PRO:C	3:D:1022:TYR:H	2.06	0.61
4:E:3:GLU:OE2	4:E:65:MET:HE1	2.00	0.61
1:B:173:VAL:HA	1:B:200:THR:CG2	2.30	0.61
2:C:17:PRO:HG2	2:C:19:THR:N	2.06	0.61
2:C:363:SER:HB3	2:C:366:THR:HB	1.83	0.61
2:C:515:ALA:HB2	3:D:1070:GLU:OE2	2.00	0.61
2:C:564:MET:SD	2:C:840:ALA:CB	2.87	0.61
2:C:754:ILE:HA	2:C:791:ARG:HG2	1.82	0.61
3:D:566:ILE:HA	3:D:569:ASN:OD1	2.00	0.61
3:D:643:GLY:O	3:D:644:LEU:HB2	1.98	0.61
3:D:1254:THR:HA	3:D:1259:ARG:HD2	1.81	0.61
1:A:137:LEU:O	1:A:139:MET:HG3	2.00	0.61
1:B:55:SER:HA	1:B:165:PRO:HA	1.82	0.61
2:C:21:ILE:HD12	2:C:460:ARG:NH2	2.15	0.61
2:C:257:LEU:CD1	2:C:264:PRO:HG3	2.26	0.61
2:C:348:LEU:HD12	2:C:378:LEU:HD11	1.82	0.61
3:D:795:VAL:HG12	3:D:796:ARG:N	2.16	0.61
3:D:924:MET:HE1	4:E:10:PHE:CE1	2.35	0.61
3:D:1464:LYS:O	3:D:1468:ILE:HG13	2.01	0.61
1:A:172:PRO:O	1:A:201:ASP:HA	2.00	0.61
1:A:184:ARG:HH21	1:A:193:LYS:HE3	1.66	0.61
1:B:212:GLN:O	1:B:215:ALA:HB3	2.00	0.61
2:C:65:VAL:HG23	2:C:101:ILE:HB	1.81	0.61
2:C:285:LEU:HD11	2:C:302:VAL:CG2	2.31	0.61
2:C:421:GLU:HG2	2:C:424:GLY:N	2.15	0.61
2:C:672:VAL:O	2:C:991:GLN:HA	2.01	0.61
2:C:682:TYR:CD1	2:C:851:LYS:HD2	2.35	0.61
2:C:996:LYS:CE	2:C:1000:MET:HE3	2.29	0.61
2:C:1036:GLU:O	2:C:1039:ALA:HB3	2.00	0.61
3:D:606:ILE:HD12	3:D:606:ILE:H	1.63	0.61
3:D:654:LYS:HB3	3:D:655:PRO:CD	2.26	0.61
3:D:977:GLN:C	3:D:979:TYR:H	2.09	0.61
3:D:1015:ASN:O	3:D:1016:TYR:CB	2.48	0.61
2:C:196:LEU:HD11	2:C:200:LEU:HD21	1.82	0.61
2:C:439:CYS:HB2	2:C:468:ARG:HH12	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:588:VAL:HG23	2:C:666:LEU:HB2	1.83	0.61
2:C:759:THR:HB	2:C:785:VAL:CG2	2.30	0.61
3:D:957:ILE:HG23	3:D:1040:CYS:O	2.01	0.61
3:D:1020:PRO:C	3:D:1022:TYR:N	2.55	0.61
3:D:1264:PHE:O	3:D:1425:VAL:HB	2.00	0.61
3:D:1278:ILE:CG2	3:D:1279:ASP:N	2.64	0.61
3:D:1460:LEU:CD1	3:D:1471:ARG:HH11	2.14	0.61
1:A:124:PRO:HG2	1:A:125:ASP:OD1	2.01	0.61
2:C:110:GLU:HG3	2:C:369:PRO:C	2.26	0.61
2:C:204:GLN:HG3	2:C:205:GLU:HG2	1.82	0.61
2:C:354:GLY:O	2:C:358:ARG:HG2	2.01	0.61
2:C:455:LEU:C	2:C:455:LEU:HD12	2.25	0.61
2:C:457:ALA:O	2:C:459:ALA:N	2.34	0.61
2:C:603:VAL:HG21	2:C:645:VAL:C	2.26	0.61
3:D:149:LYS:O	3:D:153:LEU:N	2.22	0.61
3:D:1102:VAL:HG21	3:D:1425:VAL:CG1	2.30	0.61
3:D:1283:ARG:CG	3:D:1294:PHE:HB2	2.31	0.61
1:A:86:VAL:HG21	1:A:202:GLY:CA	2.30	0.61
2:C:128:ILE:HD12	2:C:128:ILE:N	2.14	0.61
2:C:185:LYS:HA	2:C:189:ARG:O	2.01	0.61
2:C:413:LEU:HD11	2:C:448:ASN:OD1	2.00	0.61
2:C:636:ALA:HB3	2:C:703:ILE:O	2.01	0.61
2:C:970:GLY:CA	3:D:950:ILE:HD13	2.31	0.61
3:D:96:ALA:O	3:D:97:THR:C	2.43	0.61
3:D:625:TYR:HE1	3:D:751:LEU:HD21	1.66	0.61
3:D:1327:THR:C	3:D:1329:GLY:H	2.09	0.61
2:C:249:LYS:O	2:C:250:LYS:C	2.44	0.61
2:C:613:VAL:HG21	2:C:619:ARG:NE	2.16	0.61
2:C:859:PRO:HD2	2:C:867:VAL:CG2	2.31	0.61
2:C:1062:GLY:O	2:C:1063:ARG:C	2.43	0.61
3:D:849:ALA:O	3:D:853:VAL:HG23	2.00	0.61
3:D:961:LYS:CE	3:D:1042:MET:HB3	2.31	0.61
3:D:1012:PHE:HA	3:D:1015:ASN:O	2.01	0.61
3:D:1087:LEU:HA	3:D:1090:ALA:CB	2.30	0.61
3:D:1482:VAL:CG1	4:E:21:VAL:HG21	2.30	0.61
1:A:208:GLU:HB3	1:A:212:GLN:HE21	1.65	0.61
2:C:460:ARG:NH1	2:C:464:LEU:HD21	2.15	0.61
2:C:843:HIS:HD2	2:C:884:GLN:CA	2.14	0.61
3:D:966:GLU:O	3:D:970:ARG:N	2.34	0.61
3:D:979:TYR:C	3:D:981:MET:N	2.56	0.61
3:D:1089:THR:HA	3:D:1092:SER:CB	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1458:ASP:CG	3:D:1460:LEU:HD23	2.24	0.61
4:E:26:ARG:HH21	4:E:67:GLU:CD	2.08	0.61
2:C:677:MET:HE1	2:C:983:PHE:CE1	2.35	0.60
3:D:548:ILE:C	3:D:550:ARG:H	2.09	0.60
3:D:1408:LEU:C	3:D:1410:ALA:N	2.58	0.60
3:D:1487:VAL:HB	4:E:85:LEU:HD11	1.83	0.60
1:B:110:ALA:HB3	1:B:125:ASP:O	2.01	0.60
2:C:568:ALA:O	2:C:569:VAL:HG12	2.01	0.60
2:C:874:LEU:HD12	2:C:875:GLY:H	1.67	0.60
2:C:1043:TYR:CD2	3:D:763:MET:HG2	2.36	0.60
3:D:705:ALA:HB3	3:D:706:PRO:CD	2.30	0.60
3:D:754:PHE:CD1	4:E:24:ALA:HB1	2.36	0.60
3:D:952:ILE:O	3:D:954:ASP:N	2.34	0.60
3:D:1123:LEU:HG	3:D:1141:ILE:HD13	1.82	0.60
3:D:1126:MET:HE2	3:D:1133:LEU:HD21	1.81	0.60
3:D:1146:TYR:CD2	3:D:1147:GLY:N	2.69	0.60
3:D:1330:ALA:O	3:D:1332:ASP:N	2.34	0.60
3:D:1379:TYR:CD1	3:D:1423:MET:HG3	2.36	0.60
2:C:813:VAL:HG12	2:C:814:GLU:N	2.05	0.60
3:D:477:LEU:HD12	3:D:480:GLU:HB3	1.83	0.60
3:D:1473:ILE:O	3:D:1478:GLY:HA3	2.01	0.60
1:A:86:VAL:HG12	1:A:123:ASN:CG	2.26	0.60
1:B:102:ALA:HB3	1:B:136:LYS:O	2.01	0.60
2:C:710:ILE:N	2:C:710:ILE:HD12	2.15	0.60
2:C:745:ILE:HA	2:C:800:VAL:HG12	1.83	0.60
3:D:777:PRO:HD2	3:D:912:LYS:HE3	1.82	0.60
1:A:109:ARG:H	1:A:109:ARG:CD	2.13	0.60
2:C:63:GLY:HA2	2:C:102:HIS:HA	1.82	0.60
2:C:86:LYS:HA	2:C:806:LEU:HD11	1.83	0.60
3:D:907:GLU:HB3	3:D:911:LEU:HD22	1.83	0.60
3:D:948:ILE:HD13	3:D:948:ILE:N	2.09	0.60
3:D:1293:VAL:HG23	3:D:1306:LEU:HD22	1.82	0.60
3:D:1381:GLU:HB3	3:D:1419:LYS:HD2	1.84	0.60
2:C:291:VAL:CB	2:C:299:LYS:HE3	2.32	0.60
2:C:328:LEU:HB3	2:C:467:ILE:CG2	2.31	0.60
2:C:502:PRO:HB2	2:C:507:ARG:NH2	2.17	0.60
3:D:511:TRP:O	3:D:512:MET:HG3	2.02	0.60
3:D:1449:THR:O	3:D:1452:ALA:HB3	2.01	0.60
1:B:184:ARG:CB	1:B:189:THR:HA	2.32	0.60
2:C:63:GLY:CA	2:C:102:HIS:HA	2.31	0.60
2:C:389:SER:C	2:C:391:LEU:N	2.60	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:568:ALA:O	2:C:569:VAL:CB	2.49	0.60
2:C:568:ALA:O	2:C:569:VAL:HB	2.01	0.60
2:C:613:VAL:HG13	2:C:620:LEU:N	2.15	0.60
2:C:1020:PRO:HG2	3:D:624:ASP:HB2	1.82	0.60
3:D:542:ASP:O	3:D:543:LEU:C	2.44	0.60
3:D:752:SER:O	3:D:754:PHE:N	2.34	0.60
3:D:1373:VAL:HA	3:D:1376:MET:HE2	1.82	0.60
3:D:1467:VAL:O	3:D:1470:GLY:N	2.33	0.60
1:A:163:ALA:O	1:A:164:ILE:C	2.45	0.60
1:B:159:ASP:O	1:B:161:ILE:N	2.34	0.60
2:C:64:LEU:HB3	2:C:359:MET:HE3	1.83	0.60
2:C:290:LEU:HD12	2:C:300:ASP:HA	1.84	0.60
2:C:841:ASN:C	2:C:841:ASN:HD22	2.09	0.60
3:D:1138:ARG:H	3:D:1138:ARG:HD2	1.66	0.60
3:D:1180:GLU:C	3:D:1182:GLY:H	2.08	0.60
3:D:1281:VAL:HG12	3:D:1282:VAL:N	2.16	0.60
3:D:1354:GLN:O	3:D:1356:VAL:N	2.35	0.60
3:D:1373:VAL:HG22	3:D:1376:MET:HE2	1.84	0.60
1:A:31:GLY:N	1:A:192:ASP:OD1	2.35	0.60
1:A:72:LYS:CA	2:C:607:ASP:HB3	2.31	0.60
1:B:25:LEU:HD11	1:B:28:LEU:CD1	2.30	0.60
2:C:396:ASP:HB3	2:C:402:SER:HB3	1.84	0.60
2:C:466:PHE:C	2:C:466:PHE:CD1	2.80	0.60
2:C:685:GLU:HB3	2:C:686:ASP:OD1	2.01	0.60
2:C:873:PRO:O	2:C:877:PRO:CD	2.50	0.60
2:C:984:GLU:O	3:D:945:SER:O	2.20	0.60
2:C:1005:MET:CG	3:D:724:GLN:HG3	2.31	0.60
2:C:1107:ASN:N	2:C:1108:PRO:CD	2.65	0.60
3:D:1070:GLU:HG3	3:D:1073:ILE:CG1	2.32	0.60
3:D:1111:ALA:HA	3:D:1203:GLN:O	2.01	0.60
2:C:13:ILE:HG22	2:C:14:PRO:CD	2.28	0.60
2:C:565:GLN:HG3	2:C:668:LEU:CD1	2.32	0.60
2:C:588:VAL:O	2:C:588:VAL:HG12	2.00	0.60
3:D:616:GLN:O	3:D:617:ASN:HB2	2.00	0.60
3:D:638:LYS:CB	3:D:935:LYS:HD3	2.31	0.60
1:A:179:GLN:HE21	2:C:934:PHE:CB	2.11	0.59
1:B:25:LEU:C	1:B:25:LEU:HD12	2.27	0.59
1:B:58:ILE:CG2	1:B:139:MET:HG2	2.32	0.59
1:B:122:MET:N	1:B:122:MET:HE3	2.17	0.59
2:C:208:VAL:HG21	2:C:218:VAL:HG13	1.84	0.59
2:C:355:VAL:HG13	2:C:356:ARG:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:428:ARG:HA	2:C:431:HIS:HD2	1.65	0.59
2:C:874:LEU:O	2:C:876:VAL:N	2.35	0.59
3:D:510:GLU:O	3:D:512:MET:N	2.35	0.59
1:B:93:ARG:O	1:B:94:TRP:O	2.20	0.59
2:C:502:PRO:HB2	2:C:507:ARG:NH1	2.16	0.59
2:C:673:LEU:CD2	2:C:867:VAL:HG12	2.32	0.59
2:C:772:ARG:O	2:C:772:ARG:HD3	2.02	0.59
2:C:837:ASP:OD2	2:C:837:ASP:N	2.35	0.59
2:C:946:ARG:NH1	2:C:984:GLU:HB2	2.15	0.59
2:C:958:SER:HB2	2:C:959:PRO:HD2	1.84	0.59
3:D:90:MET:N	3:D:520:LEU:HD21	2.16	0.59
3:D:657:LEU:O	3:D:660:LYS:N	2.26	0.59
3:D:787:LEU:HD12	3:D:787:LEU:O	2.01	0.59
1:A:41:ARG:HD2	1:A:41:ARG:C	2.28	0.59
1:B:41:ARG:HA	1:B:176:VAL:HG11	1.84	0.59
2:C:21:ILE:CD1	2:C:460:ARG:HH21	2.15	0.59
2:C:285:LEU:HD11	2:C:302:VAL:HG21	1.85	0.59
2:C:423:ALA:HA	2:C:427:VAL:HG21	1.84	0.59
2:C:544:THR:C	2:C:546:LEU:H	2.09	0.59
2:C:551:GLU:CG	2:C:906:PHE:HD2	2.07	0.59
2:C:803:ARG:HD2	2:C:803:ARG:O	2.01	0.59
2:C:918:LEU:HD13	2:C:968:ASP:O	2.02	0.59
3:D:829:VAL:O	3:D:830:ALA:CB	2.50	0.59
3:D:1118:TYR:C	3:D:1119:ILE:HD12	2.28	0.59
3:D:1220:GLU:HA	4:E:17:TYR:OH	2.02	0.59
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.83	0.59
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.84	0.59
1:A:111:VAL:O	1:A:113:PHE:N	2.35	0.59
1:A:199:TRP:CD1	1:A:200:THR:HG1	2.19	0.59
2:C:5:ARG:HH22	2:C:10:ARG:HH11	1.49	0.59
2:C:841:ASN:HD21	2:C:845:ASN:N	1.93	0.59
2:C:882:LEU:HD11	2:C:884:GLN:NE2	2.18	0.59
3:D:18:ILE:H	3:D:18:ILE:HD12	1.67	0.59
3:D:752:SER:O	3:D:753:SER:C	2.46	0.59
3:D:794:GLN:OE1	3:D:906:GLN:NE2	2.35	0.59
3:D:846:PRO:HG3	3:D:880:ILE:HD12	1.83	0.59
3:D:1364:LEU:CD2	3:D:1365:HIS:H	2.16	0.59
1:A:12:THR:HG22	1:A:13:ALA:H	1.66	0.59
1:A:98:LEU:HB3	1:A:113:PHE:HD2	1.66	0.59
2:C:340:MET:SD	2:C:340:MET:C	2.86	0.59
2:C:460:ARG:O	2:C:461:VAL:HB	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:764:GLU:OE2	2:C:786:LYS:HE3	2.03	0.59
3:D:514:LEU:O	3:D:515:GLU:CB	2.50	0.59
3:D:604:THR:O	3:D:608:SER:HB3	2.03	0.59
3:D:803:GLY:O	3:D:826:PRO:N	2.35	0.59
3:D:1010:ASN:O	3:D:1013:GLU:HB3	2.03	0.59
3:D:1095:LEU:CD1	3:D:1099:LEU:HD13	2.30	0.59
3:D:1205:CYS:C	3:D:1207:GLY:H	2.10	0.59
1:A:191:LEU:N	1:A:191:LEU:HD23	2.17	0.59
2:C:565:GLN:HB2	2:C:995:MET:HE1	1.85	0.59
2:C:640:ARG:O	2:C:656:ALA:HB1	2.02	0.59
2:C:910:THR:HB	2:C:913:GLU:HG3	1.85	0.59
2:C:928:LYS:O	2:C:929:ARG:C	2.44	0.59
3:D:14:SER:O	3:D:17:LYS:N	2.33	0.59
3:D:687:VAL:O	3:D:688:TRP:C	2.46	0.59
3:D:1097:ARG:HG3	3:D:1097:ARG:NH1	2.18	0.59
3:D:1433:LYS:CG	3:D:1434:SER:H	2.14	0.59
2:C:163:ILE:HG22	2:C:265:LYS:NZ	2.18	0.59
2:C:202:TYR:OH	2:C:304:LEU:HD22	2.03	0.59
2:C:369:PRO:C	2:C:371:LYS:N	2.57	0.59
2:C:376:ARG:N	2:C:377:PRO:CD	2.61	0.59
2:C:603:VAL:O	2:C:604:VAL:HB	2.02	0.59
2:C:842:ARG:NH2	2:C:887:GLU:OE1	2.34	0.59
2:C:872:ASN:ND2	2:C:874:LEU:N	2.51	0.59
3:D:1104:HIS:ND1	3:D:1105:GLU:N	2.50	0.59
3:D:1268:ARG:HH12	3:D:1331:ILE:CB	2.16	0.59
1:A:114:THR:HG23	1:A:114:THR:O	2.03	0.59
1:A:133:GLU:OE1	2:C:606:VAL:HB	2.02	0.59
1:B:105:PRO:HB3	1:B:132:GLU:HG3	1.85	0.59
1:B:173:VAL:HG12	1:B:200:THR:CG2	2.33	0.59
2:C:493:ARG:HH12	3:D:1070:GLU:CA	2.16	0.59
2:C:700:TYR:CB	2:C:833:LEU:HD22	2.32	0.59
2:C:701:THR:HG22	2:C:832:LYS:CA	2.27	0.59
2:C:743:VAL:HG12	2:C:744:ARG:N	2.18	0.59
1:A:26:GLU:CB	1:A:27:PRO:CD	2.72	0.59
2:C:257:LEU:O	2:C:259:GLY:N	2.36	0.59
2:C:344:PHE:O	2:C:346:VAL:N	2.36	0.59
2:C:565:GLN:HG3	2:C:668:LEU:HD13	1.84	0.59
2:C:1034:GLU:HA	2:C:1037:VAL:HG23	1.84	0.59
3:D:616:GLN:O	3:D:617:ASN:CB	2.50	0.59
3:D:638:LYS:CB	3:D:729:HIS:CE1	2.86	0.59
3:D:663:GLU:C	3:D:665:ALA:N	2.60	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:719:VAL:O	3:D:721:VAL:HG23	2.03	0.59
1:A:23:PHE:CD2	1:A:210:LEU:HD22	2.37	0.59
1:A:157:ILE:HG23	1:A:158:LYS:N	2.07	0.59
2:C:196:LEU:O	2:C:200:LEU:HG	2.03	0.59
2:C:571:LEU:N	2:C:571:LEU:CD1	2.65	0.59
2:C:1034:GLU:CG	2:C:1035:MET:N	2.66	0.59
3:D:26:VAL:C	3:D:28:LYS:H	2.11	0.59
3:D:657:LEU:HD12	3:D:660:LYS:HB3	1.84	0.59
3:D:1482:VAL:HG13	3:D:1484:PHE:HE2	1.67	0.59
1:A:111:VAL:HG22	1:A:124:PRO:HB2	1.85	0.58
1:A:170:PHE:O	1:A:171:SER:C	2.46	0.58
2:C:54:ILE:O	2:C:65:VAL:O	2.21	0.58
2:C:398:THR:OG1	2:C:633:GLN:HG3	2.02	0.58
2:C:613:VAL:HG21	2:C:619:ARG:HG3	1.85	0.58
2:C:682:TYR:HB3	2:C:689:VAL:HG22	1.85	0.58
2:C:845:ASN:HD21	2:C:876:VAL:HG11	1.68	0.58
2:C:901:TYR:O	2:C:902:ILE:HD12	2.03	0.58
3:D:1061:SER:C	3:D:1063:ARG:N	2.61	0.58
3:D:1284:ILE:HG12	3:D:1293:VAL:HG13	1.85	0.58
3:D:1353:ILE:O	3:D:1354:GLN:C	2.46	0.58
1:A:38:ASN:O	1:A:41:ARG:N	2.36	0.58
2:C:40:GLU:HG2	2:C:41:ASN:ND2	2.18	0.58
2:C:642:ARG:H	2:C:656:ALA:HB2	1.68	0.58
2:C:691:SER:HB2	2:C:858:MET:CE	2.25	0.58
2:C:772:ARG:HH11	2:C:776:SER:HB3	1.68	0.58
3:D:791:TYR:CE1	3:D:1024:MET:HG3	2.38	0.58
4:E:81:PRO:HB2	4:E:84:ARG:HB2	1.84	0.58
1:B:117:ALA:C	1:B:119:VAL:H	2.12	0.58
2:C:54:ILE:HD13	2:C:355:VAL:HG13	1.84	0.58
2:C:115:LEU:CD1	2:C:116:GLY:H	2.15	0.58
2:C:203:ASP:O	2:C:204:GLN:C	2.45	0.58
2:C:308:ARG:O	2:C:310:LEU:N	2.37	0.58
2:C:852:ILE:O	2:C:852:ILE:HG12	2.02	0.58
3:D:564:GLU:HA	3:D:567:ILE:HG22	1.85	0.58
3:D:901:GLN:CB	3:D:905:PRO:HG3	2.27	0.58
3:D:1273:ALA:HB1	3:D:1325:PRO:HG2	1.85	0.58
3:D:1275:ILE:HA	3:D:1323:GLY:CA	2.33	0.58
4:E:79:LEU:C	4:E:81:PRO:HD2	2.28	0.58
1:B:117:ALA:O	1:B:119:VAL:N	2.36	0.58
2:C:290:LEU:HA	2:C:300:ASP:HA	1.83	0.58
2:C:362:GLY:HA3	2:C:367:LEU:HD23	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:570:PRO:CG	2:C:635:THR:HG23	2.33	0.58
2:C:987:ILE:HA	3:D:948:ILE:HG23	1.85	0.58
3:D:558:LEU:C	3:D:560:GLN:H	2.10	0.58
3:D:1438:ALA:HA	3:D:1441:PHE:HD1	1.68	0.58
1:A:224:PHE:HD2	1:B:11:PHE:CZ	2.21	0.58
1:B:24:VAL:HG22	1:B:195:THR:HA	1.86	0.58
1:B:194:LEU:HD11	1:B:196:LEU:HD13	1.86	0.58
2:C:290:LEU:HD11	2:C:298:PHE:HB3	1.84	0.58
2:C:460:ARG:HH11	2:C:464:LEU:HD21	1.67	0.58
2:C:922:PHE:C	2:C:924:LEU:N	2.62	0.58
3:D:607:LEU:HD11	3:D:614:PHE:CZ	2.38	0.58
3:D:959:GLU:C	3:D:961:LYS:H	2.12	0.58
3:D:1257:LEU:HB3	3:D:1258:PRO:HD3	1.86	0.58
3:D:1305:LYS:HD3	3:D:1305:LYS:N	2.18	0.58
3:D:1379:TYR:CD1	3:D:1379:TYR:N	2.72	0.58
2:C:165:LEU:C	2:C:167:LYS:H	2.11	0.58
2:C:654:LEU:O	2:C:654:LEU:HD12	2.03	0.58
2:C:1055:ILE:HD12	2:C:1055:ILE:N	2.18	0.58
3:D:1043:ARG:NH2	3:D:1066:LEU:HD21	2.17	0.58
3:D:1104:HIS:O	3:D:1106:ILE:N	2.36	0.58
1:A:197:ARG:HH12	2:C:932:GLU:CD	2.12	0.58
1:B:79:ILE:HD11	1:B:164:ILE:HD12	1.84	0.58
2:C:140:ILE:HB	2:C:332:ARG:O	2.04	0.58
2:C:165:LEU:O	2:C:167:LYS:N	2.36	0.58
2:C:324:ASP:C	2:C:326:ASP:H	2.10	0.58
2:C:605:LYS:HG3	2:C:612:ALA:N	2.05	0.58
3:D:711:LEU:HD12	3:D:778:LEU:HD23	1.86	0.58
1:B:41:ARG:HG2	1:B:176:VAL:CG1	2.33	0.58
2:C:112:GLU:O	2:C:113:VAL:HB	2.04	0.58
2:C:342:ASP:O	2:C:346:VAL:HG23	2.03	0.58
2:C:443:THR:O	2:C:444:PRO:O	2.22	0.58
2:C:443:THR:HB	2:C:444:PRO:HD3	1.86	0.58
2:C:573:ARG:O	2:C:575:GLN:HG3	2.04	0.58
2:C:725:ASP:OD1	2:C:725:ASP:O	2.20	0.58
2:C:1008:ARG:HD2	2:C:1029:GLY:N	2.17	0.58
3:D:496:LEU:HG	3:D:500:ARG:HG2	1.85	0.58
3:D:654:LYS:O	3:D:657:LEU:N	2.37	0.58
3:D:859:ASP:OD1	3:D:861:GLN:NE2	2.36	0.58
3:D:954:ASP:O	3:D:955:ALA:HB3	2.03	0.58
3:D:1482:VAL:HG11	4:E:18:ARG:HA	1.84	0.58
2:C:163:ILE:HB	2:C:164:PRO:HD2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:163:ILE:HG21	2:C:169:GLY:C	2.29	0.58
2:C:600:ASP:HA	2:C:648:ARG:HD2	1.86	0.58
2:C:603:VAL:HG21	2:C:645:VAL:CA	2.34	0.58
3:D:961:LYS:HE3	3:D:1042:MET:HB3	1.86	0.58
3:D:1068:VAL:CG1	3:D:1070:GLU:HB2	2.32	0.58
4:E:38:THR:HG22	4:E:39:VAL:N	2.19	0.58
1:A:91:ASP:HB3	1:A:94:TRP:NE1	2.19	0.58
2:C:552:HIS:ND1	3:D:1065:GLY:HA2	2.17	0.58
2:C:889:HIS:CE1	3:D:951:GLY:N	2.62	0.58
3:D:501:ALA:HB1	3:D:1454:ALA:HA	1.86	0.58
3:D:704:ARG:HG2	3:D:704:ARG:HH11	1.67	0.58
3:D:853:VAL:HG13	3:D:858:LEU:O	2.04	0.58
3:D:908:LYS:HD2	3:D:1028:GLY:HA3	1.86	0.58
3:D:925:GLU:O	3:D:928:ALA:HB3	2.04	0.58
1:A:16:GLN:HG3	1:A:20:TYR:HB3	1.86	0.57
1:A:91:ASP:CG	1:A:92:PRO:HD2	2.29	0.57
2:C:266:ARG:HG2	2:C:268:ASP:CA	2.34	0.57
2:C:509:ALA:O	2:C:515:ALA:O	2.22	0.57
2:C:642:ARG:O	2:C:643:VAL:HG23	2.04	0.57
2:C:679:PHE:HB2	2:C:870:ILE:HG21	1.86	0.57
2:C:710:ILE:HD12	2:C:823:VAL:O	2.03	0.57
2:C:795:GLY:O	2:C:797:GLY:N	2.37	0.57
2:C:936:VAL:HG13	2:C:940:GLU:HB2	1.86	0.57
3:D:17:LYS:O	3:D:20:SER:N	2.34	0.57
3:D:1044:GLY:HA3	3:D:1058:VAL:H	1.69	0.57
4:E:27:ALA:C	4:E:29:GLN:H	2.11	0.57
4:E:50:THR:O	4:E:52:GLU:N	2.37	0.57
1:A:19:HIS:HA	1:A:201:ASP:OD1	2.03	0.57
1:A:39:PRO:HA	1:B:35:THR:HG23	1.86	0.57
1:A:123:ASN:O	1:A:124:PRO:O	2.22	0.57
1:B:86:VAL:H	1:B:123:ASN:HD21	1.52	0.57
2:C:102:HIS:HB3	2:C:104:ASP:OD1	2.04	0.57
2:C:139:GLN:NE2	2:C:334:ARG:HH21	2.02	0.57
2:C:163:ILE:HD12	2:C:163:ILE:O	2.03	0.57
2:C:541:SER:OG	2:C:544:THR:HB	2.04	0.57
2:C:892:LEU:HA	2:C:895:TYR:HB3	1.85	0.57
2:C:906:PHE:O	2:C:907:ASP:HB2	2.04	0.57
2:C:946:ARG:HE	3:D:861:GLN:NE2	2.00	0.57
2:C:1008:ARG:HD2	2:C:1029:GLY:H	1.69	0.57
3:D:770:LEU:CD1	3:D:770:LEU:N	2.66	0.57
3:D:772:PRO:O	3:D:773:ALA:C	2.47	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:899:LEU:C	3:D:900:ILE:HG13	2.28	0.57
3:D:1221:ALA:HB2	3:D:1475:ALA:CB	2.32	0.57
3:D:1238:THR:HG22	3:D:1239:MET:N	2.19	0.57
3:D:1484:PHE:O	3:D:1485:THR:C	2.48	0.57
4:E:40:LEU:HB3	4:E:44:GLU:O	2.03	0.57
2:C:202:TYR:HB3	2:C:207:LEU:HD13	1.85	0.57
2:C:492:ASP:N	2:C:531:PHE:CB	2.66	0.57
2:C:552:HIS:NE2	2:C:886:LEU:HD12	2.19	0.57
2:C:565:GLN:CB	2:C:995:MET:HE1	2.34	0.57
2:C:848:VAL:HG12	3:D:740:PHE:O	2.04	0.57
2:C:1085:PHE:CD1	3:D:1469:LEU:HD22	2.39	0.57
3:D:87:ARG:O	3:D:88:TYR:O	2.22	0.57
3:D:625:TYR:CE1	3:D:751:LEU:HD11	2.39	0.57
3:D:660:LYS:O	3:D:664:LYS:N	2.28	0.57
3:D:929:ARG:HH11	3:D:929:ARG:HG2	1.69	0.57
3:D:1210:LEU:HG	3:D:1210:LEU:O	2.05	0.57
3:D:1434:SER:HB3	3:D:1465:GLU:OE2	2.03	0.57
1:A:57:TYR:C	1:A:57:TYR:HD2	2.11	0.57
1:A:111:VAL:HG23	1:A:125:ASP:N	2.19	0.57
1:B:178:PHE:CB	1:B:196:LEU:HD12	2.34	0.57
2:C:38:LYS:O	2:C:39:ARG:HB2	2.03	0.57
2:C:232:GLU:C	2:C:234:ALA:N	2.62	0.57
2:C:291:VAL:HB	2:C:299:LYS:HE3	1.86	0.57
2:C:501:THR:O	2:C:507:ARG:NH2	2.37	0.57
2:C:642:ARG:H	2:C:656:ALA:CA	2.17	0.57
2:C:1036:GLU:O	2:C:1040:LEU:HD23	2.03	0.57
3:D:507:ASN:O	3:D:508:ARG:CG	2.52	0.57
3:D:793:THR:HG22	3:D:879:ARG:HA	1.86	0.57
3:D:1077:GLY:HA2	3:D:1080:LYS:HG2	1.87	0.57
3:D:1320:VAL:O	3:D:1321:GLU:C	2.47	0.57
3:D:1485:THR:HG23	4:E:85:LEU:HD22	1.86	0.57
3:D:1495:ALA:HB1	4:E:91:ARG:HD3	1.86	0.57
1:B:70:GLY:O	1:B:131:LEU:HB2	2.04	0.57
2:C:72:ARG:HD3	2:C:112:GLU:OE1	2.04	0.57
2:C:283:VAL:CG1	2:C:284:GLY:H	2.17	0.57
2:C:568:ALA:CB	2:C:668:LEU:HD22	2.33	0.57
2:C:1045:ALA:HB1	2:C:1048:THR:CB	2.29	0.57
3:D:638:LYS:HA	3:D:729:HIS:CD2	2.39	0.57
3:D:642:CYS:SG	3:D:702:LEU:HD23	2.45	0.57
3:D:747:VAL:O	3:D:747:VAL:HG22	2.05	0.57
3:D:1087:LEU:HD12	3:D:1090:ALA:CB	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1219:GLY:C	4:E:17:TYR:HE2	2.12	0.57
1:A:215:ALA:O	1:A:218:LYS:HB2	2.04	0.57
2:C:144:PRO:HA	2:C:162:ILE:HG22	1.87	0.57
2:C:265:LYS:O	2:C:266:ARG:HB2	2.04	0.57
2:C:910:THR:CG2	2:C:912:PRO:HD2	2.33	0.57
2:C:996:LYS:O	2:C:996:LYS:HG2	2.05	0.57
3:D:642:CYS:O	3:D:719:VAL:HB	2.05	0.57
3:D:1102:VAL:HA	3:D:1429:ALA:HB2	1.86	0.57
1:B:19:HIS:O	1:B:20:TYR:C	2.46	0.57
2:C:87:ASP:CG	2:C:824:ARG:HH22	2.12	0.57
2:C:528:GLU:O	2:C:529:VAL:CB	2.53	0.57
2:C:637:PHE:CD1	2:C:637:PHE:C	2.83	0.57
2:C:839:LEU:HB3	2:C:994:ILE:HG21	1.86	0.57
2:C:959:PRO:HG2	2:C:960:GLU:H	1.70	0.57
2:C:1034:GLU:O	2:C:1037:VAL:HG23	2.05	0.57
3:D:582:ILE:HG22	3:D:583:ASP:H	1.70	0.57
3:D:808:THR:N	3:D:809:PRO:CD	2.67	0.57
3:D:1494:LYS:C	3:D:1496:ILE:H	2.12	0.57
4:E:82:GLU:O	4:E:85:LEU:HB3	2.05	0.57
2:C:34:VAL:HG11	2:C:38:LYS:HG3	1.87	0.57
2:C:313:LEU:HG	2:C:313:LEU:O	2.05	0.57
2:C:368:THR:HB	2:C:369:PRO:HD2	1.87	0.57
2:C:816:LYS:NZ	2:C:817:PRO:HG2	2.20	0.57
2:C:957:LYS:HB3	2:C:961:GLU:HB3	1.85	0.57
3:D:969:ASP:O	3:D:970:ARG:C	2.47	0.57
3:D:1070:GLU:C	3:D:1072:PHE:N	2.60	0.57
1:A:123:ASN:ND2	1:A:126:LEU:HD22	2.20	0.57
1:A:200:THR:HG22	1:A:201:ASP:N	2.18	0.57
2:C:8:ARG:C	2:C:9:ILE:HD12	2.30	0.57
2:C:54:ILE:HD11	2:C:359:MET:SD	2.44	0.57
2:C:439:CYS:HA	2:C:455:LEU:HA	1.86	0.57
2:C:613:VAL:CG1	2:C:619:ARG:HA	2.33	0.57
2:C:698:ASP:OD2	2:C:701:THR:HG21	2.05	0.57
3:D:607:LEU:O	3:D:608:SER:HB2	2.05	0.57
3:D:709:HIS:HA	3:D:1228:GLU:CB	2.35	0.57
3:D:1259:ARG:C	3:D:1261:ILE:N	2.63	0.57
2:C:151:ASP:HA	2:C:158:TYR:CD2	2.37	0.57
2:C:176:VAL:HG11	2:C:311:PHE:HE2	1.69	0.57
2:C:580:MET:O	2:C:581:THR:CB	2.52	0.57
2:C:613:VAL:HG21	2:C:619:ARG:HE	1.70	0.57
2:C:987:ILE:HD11	3:D:946:GLY:CA	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:768:ASN:HD22	4:E:16:LYS:NZ	2.02	0.57
3:D:1137:LYS:HE3	3:D:1140:ASP:OD1	2.05	0.57
3:D:1295:VAL:O	3:D:1295:VAL:HG12	2.04	0.57
1:A:67:THR:HG23	1:A:67:THR:O	2.05	0.56
1:A:100:LEU:HD23	1:A:113:PHE:CE1	2.39	0.56
1:A:162:ASN:O	1:A:164:ILE:HG23	2.05	0.56
1:A:204:VAL:HG23	1:A:205:THR:N	2.19	0.56
2:C:502:PRO:O	2:C:507:ARG:NH2	2.37	0.56
2:C:845:ASN:ND2	2:C:884:GLN:NE2	2.42	0.56
2:C:1105:LYS:H	2:C:1108:PRO:HG2	1.70	0.56
3:D:95:LEU:O	3:D:96:ALA:HB2	2.04	0.56
3:D:586:ARG:O	3:D:588:GLY:N	2.38	0.56
3:D:1252:ASP:HB2	3:D:1270:LYS:NZ	2.19	0.56
3:D:1265:GLU:OE2	3:D:1424:GLY:O	2.23	0.56
1:A:15:THR:CG2	1:B:229:ALA:HB1	2.35	0.56
1:B:173:VAL:CA	1:B:200:THR:HG22	2.32	0.56
2:C:148:PHE:HE2	2:C:310:LEU:HB2	1.70	0.56
3:D:23(U):UNK:CB	3:D:43(U):UNK:N	2.69	0.56
3:D:486:ARG:CG	3:D:487:ALA:H	2.18	0.56
3:D:858:LEU:O	3:D:860:LEU:N	2.38	0.56
1:A:58:ILE:HG23	1:A:139:MET:HG2	1.86	0.56
2:C:5:ARG:HG3	2:C:902:ILE:CG2	2.36	0.56
2:C:80:GLN:O	2:C:81:ASP:CB	2.50	0.56
2:C:118:LEU:HD23	2:C:118:LEU:O	2.05	0.56
2:C:215:GLY:O	2:C:216:ASP:C	2.48	0.56
2:C:260:LEU:HD23	2:C:261:LEU:HB3	1.87	0.56
2:C:271:GLU:O	2:C:272:ALA:HB3	2.03	0.56
2:C:305:PRO:HB3	2:C:308:ARG:HH21	1.71	0.56
2:C:352:ALA:CA	2:C:355:VAL:HG12	2.34	0.56
2:C:427:VAL:C	2:C:429:ASP:H	2.13	0.56
2:C:549:PHE:CE2	2:C:886:LEU:HB3	2.41	0.56
2:C:705:ILE:HD12	2:C:705:ILE:O	2.05	0.56
2:C:860:HIS:H	2:C:977:GLY:H	1.53	0.56
2:C:1060:ILE:O	2:C:1064:ASN:ND2	2.38	0.56
3:D:97:THR:O	3:D:571:LYS:HE2	2.05	0.56
3:D:578:VAL:C	3:D:580:ALA:N	2.63	0.56
3:D:653:PHE:O	3:D:654:LYS:C	2.48	0.56
3:D:709:HIS:CA	3:D:1228:GLU:HB3	2.35	0.56
3:D:1066:LEU:C	3:D:1068:VAL:H	2.13	0.56
3:D:1108:VAL:HG21	3:D:1216:VAL:CG1	2.35	0.56
3:D:1232:GLU:HB3	3:D:1233:PRO:CD	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1232:GLU:C	3:D:1234:GLY:H	2.13	0.56
3:D:1400:ASP:OD2	3:D:1418:TRP:CE3	2.58	0.56
3:D:1458:ASP:C	3:D:1460:LEU:H	2.13	0.56
4:E:27:ALA:HB1	4:E:60:ALA:HB1	1.86	0.56
1:A:56:VAL:HG23	1:A:164:ILE:HD11	1.87	0.56
1:B:86:VAL:H	1:B:123:ASN:ND2	2.03	0.56
2:C:257:LEU:HB3	2:C:264:PRO:CG	2.35	0.56
2:C:421:GLU:HG3	2:C:422:ARG:N	2.20	0.56
2:C:642:ARG:H	2:C:656:ALA:CB	2.17	0.56
2:C:839:LEU:HD12	2:C:994:ILE:CG2	2.35	0.56
3:D:544:TYR:OH	3:D:603:LEU:HD21	2.05	0.56
3:D:614:PHE:CD1	3:D:1439:ALA:HB1	2.39	0.56
3:D:836:VAL:HG11	3:D:858:LEU:HD21	1.86	0.56
3:D:855:HIS:O	3:D:857:LEU:HD22	2.06	0.56
3:D:1093:GLY:HA2	3:D:1097:ARG:NH2	2.20	0.56
3:D:1108:VAL:HA	3:D:1202:CYS:O	2.06	0.56
3:D:1418:TRP:HD1	3:D:1419:LYS:O	1.89	0.56
4:E:81:PRO:CB	4:E:84:ARG:HD2	2.36	0.56
1:A:91:ASP:HB3	1:A:94:TRP:HE1	1.71	0.56
2:C:15:LEU:HD11	2:C:461:VAL:HG21	1.86	0.56
2:C:328:LEU:O	2:C:467:ILE:HD13	2.05	0.56
2:C:493:ARG:NH2	3:D:1070:GLU:OE2	2.38	0.56
2:C:547:ILE:HG23	2:C:843:HIS:CE1	2.40	0.56
2:C:760:SER:CB	2:C:788:THR:HG21	2.35	0.56
2:C:876:VAL:HB	2:C:877:PRO:CD	2.35	0.56
2:C:1052:MET:HE2	3:D:623:VAL:HG11	1.87	0.56
3:D:858:LEU:HB3	3:D:877:PRO:HG3	1.86	0.56
3:D:955:ALA:HA	3:D:1040:CYS:SG	2.46	0.56
3:D:975:ILE:HD12	3:D:989:ARG:HG3	1.86	0.56
3:D:1155:GLU:CB	3:D:1160:ARG:HG2	2.35	0.56
3:D:1327:THR:O	3:D:1329:GLY:N	2.34	0.56
4:E:59:ASN:ND2	4:E:62:THR:OG1	2.37	0.56
2:C:35:PRO:O	2:C:37:GLU:N	2.31	0.56
2:C:136:ILE:CB	2:C:336:VAL:HG22	2.34	0.56
2:C:163:ILE:HD12	2:C:163:ILE:C	2.31	0.56
2:C:987:ILE:O	2:C:988:VAL:C	2.48	0.56
3:D:948:ILE:H	3:D:948:ILE:CD1	2.09	0.56
3:D:1104:HIS:CE1	3:D:1463:LEU:H	2.18	0.56
3:D:1172:VAL:O	3:D:1176:ILE:HG12	2.06	0.56
3:D:1191:SER:H	3:D:1194:THR:HG22	1.70	0.56
1:A:72:LYS:CB	2:C:607:ASP:HB3	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:34:VAL:C	1:B:36:LEU:H	2.13	0.56
1:B:105:PRO:HB3	1:B:133:GLU:N	2.16	0.56
2:C:11:GLU:OE1	2:C:473:ARG:HG3	2.06	0.56
2:C:722:ILE:HD13	2:C:823:VAL:CG2	2.34	0.56
2:C:984:GLU:HG3	3:D:945:SER:HA	1.86	0.56
3:D:753:SER:O	3:D:754:PHE:C	2.47	0.56
3:D:961:LYS:HE3	3:D:1042:MET:H	1.70	0.56
3:D:1138:ARG:HD2	3:D:1138:ARG:N	2.20	0.56
3:D:1479:SER:C	3:D:1481:PHE:N	2.60	0.56
1:A:28:LEU:HD23	1:B:220:HIS:CE1	2.41	0.56
2:C:51:THR:OG1	2:C:348:LEU:HD23	2.05	0.56
2:C:251:ASP:O	2:C:252:LYS:HB3	2.04	0.56
2:C:410:ILE:HD13	2:C:468:ARG:HH21	1.70	0.56
2:C:523:ILE:O	2:C:525:ALA:N	2.39	0.56
2:C:545:ASN:HB2	2:C:583:LEU:HD12	1.86	0.56
3:D:508:ARG:O	3:D:508:ARG:HG3	2.06	0.56
3:D:860:LEU:HD12	3:D:878:GLY:HA2	1.88	0.56
3:D:937:TYR:O	3:D:938:GLY:C	2.47	0.56
1:A:133:GLU:HB3	2:C:606:VAL:HG23	1.88	0.56
1:A:161:ILE:CG2	1:A:162:ASN:N	2.69	0.56
1:A:196:LEU:HG	1:A:198:ILE:CD1	2.36	0.56
2:C:29:ALA:O	2:C:43:GLY:HA3	2.06	0.56
2:C:100:LEU:HD21	2:C:367:LEU:O	2.06	0.56
2:C:204:GLN:O	2:C:205:GLU:HB2	2.06	0.56
2:C:320:HIS:C	2:C:322:VAL:N	2.61	0.56
2:C:401:LEU:CD2	2:C:543:ASN:HB2	2.30	0.56
2:C:491:GLU:HG2	2:C:510:THR:O	2.05	0.56
2:C:648:ARG:HG2	2:C:648:ARG:HH11	1.70	0.56
2:C:758:ARG:HG3	2:C:758:ARG:NH1	2.19	0.56
2:C:872:ASN:HD21	2:C:874:LEU:CA	2.19	0.56
3:D:518:PRO:HB3	3:D:544:TYR:CD1	2.41	0.56
3:D:551:ASN:HA	3:D:574:LEU:HD13	1.87	0.56
3:D:899:LEU:HD22	3:D:899:LEU:H	1.69	0.56
3:D:1063:ARG:HG3	3:D:1063:ARG:NH1	2.21	0.56
3:D:1127:ASP:OD1	3:D:1129:VAL:HB	2.06	0.56
4:E:8:LYS:NZ	4:E:69:LEU:HD21	2.20	0.56
4:E:23:VAL:HG21	4:E:65:MET:HG2	1.87	0.56
1:A:198:ILE:HG22	1:A:198:ILE:O	2.04	0.56
1:A:224:PHE:CE1	1:B:36:LEU:HD11	2.37	0.56
1:B:99:ILE:HA	1:B:139:MET:O	2.06	0.56
1:B:168:ALA:HB1	1:B:170:PHE:CE1	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:274:ARG:HG3	2:C:275:TYR:CD1	2.38	0.56
2:C:391:LEU:HD22	2:C:415:PRO:HD3	1.88	0.56
2:C:428:ARG:CZ	3:D:1086:ALA:HB3	2.36	0.56
2:C:460:ARG:HD2	2:C:464:LEU:HD21	1.84	0.56
2:C:498:GLN:CB	2:C:503:LEU:H	2.19	0.56
2:C:869:VAL:CG2	2:C:871:LEU:HD13	2.36	0.56
3:D:26:VAL:H	3:D:79:GLU:CB	2.19	0.56
3:D:631:ILE:HG21	3:D:745:MET:CE	2.30	0.56
3:D:936:TYR:C	3:D:936:TYR:HD2	2.13	0.56
1:A:70:GLY:HA2	2:C:606:VAL:CG2	2.36	0.55
1:B:172:PRO:O	1:B:200:THR:HB	2.06	0.55
2:C:21:ILE:HG23	2:C:460:ARG:HH21	1.71	0.55
2:C:136:ILE:HB	2:C:336:VAL:CG2	2.36	0.55
2:C:149:THR:HB	2:C:158:TYR:CZ	2.41	0.55
2:C:193:LEU:HD13	2:C:193:LEU:O	2.06	0.55
2:C:474:VAL:HG22	2:C:530:GLU:CA	2.36	0.55
2:C:640:ARG:HG3	2:C:640:ARG:NH1	2.21	0.55
2:C:892:LEU:C	2:C:894:GLY:H	2.15	0.55
2:C:1108:PRO:O	2:C:1109:VAL:C	2.49	0.55
3:D:661:MET:CE	3:D:677:LEU:HD21	2.36	0.55
3:D:678:GLU:C	3:D:680:GLN:H	2.14	0.55
3:D:764:LEU:HG	3:D:766:ALA:H	1.70	0.55
3:D:1193:LEU:HD21	3:D:1370:GLU:HA	1.87	0.55
3:D:1195:CYS:SG	3:D:1202:CYS:HB2	2.46	0.55
3:D:1282:VAL:HG22	3:D:1315:LYS:C	2.31	0.55
3:D:1354:GLN:HE21	3:D:1369:ILE:HD11	1.71	0.55
4:E:30:LEU:O	4:E:32:ARG:N	2.36	0.55
2:C:683:ASN:ND2	2:C:870:ILE:HG22	2.22	0.55
2:C:745:ILE:HD12	2:C:802:GLY:HA2	1.87	0.55
2:C:902:ILE:O	2:C:902:ILE:HG22	2.05	0.55
3:D:127:LEU:O	3:D:145:VAL:HA	2.06	0.55
3:D:796:ARG:NH2	3:D:861:GLN:OE1	2.39	0.55
3:D:875:THR:CG2	3:D:876:ASN:N	2.69	0.55
3:D:899:LEU:O	3:D:900:ILE:CG1	2.55	0.55
3:D:902:MET:O	3:D:902:MET:HE3	2.06	0.55
3:D:908:LYS:HG2	3:D:909:ASN:N	2.21	0.55
3:D:1342:PRO:O	3:D:1343:GLU:C	2.48	0.55
1:A:131:LEU:HD21	1:A:137:LEU:HD22	1.88	0.55
2:C:80:GLN:HG3	2:C:90:TYR:CE1	2.41	0.55
2:C:184:MET:CE	2:C:191:PHE:HZ	2.17	0.55
2:C:394:PHE:O	2:C:395:LYS:HB2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:674:VAL:N	2:C:990:GLY:O	2.36	0.55
2:C:878:SER:OG	2:C:879:ARG:N	2.38	0.55
3:D:87:ARG:CA	3:D:522:PRO:HG2	2.37	0.55
3:D:767:HIS:CE1	4:E:2:ALA:HB1	2.41	0.55
3:D:1145:LEU:HD11	3:D:1187:VAL:HG21	1.88	0.55
3:D:1354:GLN:NE2	3:D:1369:ILE:HD11	2.21	0.55
1:A:21:GLY:HA3	1:A:23:PHE:CZ	2.40	0.55
2:C:208:VAL:HG12	2:C:209:ARG:N	2.21	0.55
2:C:310:LEU:O	2:C:311:PHE:C	2.49	0.55
2:C:320:HIS:C	2:C:322:VAL:H	2.14	0.55
2:C:323:ASP:C	2:C:325:ILE:H	2.13	0.55
2:C:336:VAL:HA	2:C:339:LEU:CD1	2.37	0.55
2:C:944:LEU:C	2:C:946:ARG:H	2.15	0.55
2:C:987:ILE:HD11	3:D:946:GLY:HA3	1.88	0.55
2:C:987:ILE:O	2:C:987:ILE:HG22	2.04	0.55
3:D:654:LYS:O	3:D:657:LEU:HB3	2.07	0.55
3:D:662:GLU:HG3	3:D:670:VAL:CG2	2.36	0.55
1:B:94:TRP:NE1	1:B:119:VAL:HG21	2.21	0.55
1:B:150:VAL:CB	1:B:168:ALA:HB3	2.34	0.55
3:D:141:VAL:O	3:D:143:ASP:N	2.35	0.55
3:D:575:GLN:HG3	3:D:579:ASP:OD1	2.05	0.55
3:D:657:LEU:O	3:D:658:LEU:C	2.49	0.55
3:D:710:ARG:HG3	3:D:711:LEU:N	2.22	0.55
3:D:986:ASP:O	3:D:989:ARG:N	2.38	0.55
3:D:1203:GLN:O	3:D:1204:LYS:CB	2.54	0.55
3:D:1323:GLY:O	3:D:1324:GLN:CG	2.55	0.55
1:A:13:ALA:O	1:A:15:THR:N	2.40	0.55
1:A:107:GLU:O	1:A:109:ARG:N	2.39	0.55
2:C:404:LEU:HD23	2:C:587:VAL:HG13	1.89	0.55
2:C:544:THR:C	2:C:546:LEU:N	2.63	0.55
2:C:752:GLY:O	2:C:791:ARG:HD3	2.07	0.55
2:C:901:TYR:C	2:C:902:ILE:HD12	2.32	0.55
3:D:604:THR:HG22	3:D:608:SER:HB3	1.88	0.55
3:D:644:LEU:O	3:D:645:PRO:C	2.48	0.55
3:D:764:LEU:HD12	3:D:765:SER:H	1.71	0.55
3:D:1122:PRO:C	3:D:1123:LEU:HD12	2.32	0.55
3:D:1148:ARG:CG	3:D:1189:VAL:HG21	2.36	0.55
3:D:1167:LEU:H	3:D:1167:LEU:HD22	1.70	0.55
3:D:1200:GLY:C	3:D:1202:CYS:H	2.15	0.55
3:D:1377:LEU:CD1	3:D:1422:LEU:HG	2.36	0.55
3:D:1382:VAL:HG23	3:D:1393:GLY:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1438:ALA:HA	3:D:1441:PHE:CD1	2.42	0.55
4:E:13:VAL:CG2	4:E:19:LEU:HB2	2.35	0.55
2:C:208:VAL:HG22	2:C:212:SER:OG	2.06	0.55
2:C:263:ASP:HB3	2:C:264:PRO:CD	2.32	0.55
2:C:380:ALA:O	2:C:384:GLU:N	2.40	0.55
2:C:559:LEU:C	2:C:559:LEU:CD1	2.76	0.55
2:C:675:ALA:HB2	2:C:989:VAL:HG22	1.87	0.55
2:C:816:LYS:HZ2	2:C:817:PRO:HG2	1.72	0.55
3:D:1108:VAL:HG11	3:D:1216:VAL:CG1	2.36	0.55
3:D:1126:MET:CG	3:D:1127:ASP:H	2.07	0.55
3:D:1278:ILE:CG2	3:D:1279:ASP:H	2.18	0.55
1:A:216:ILE:HG22	1:A:220:HIS:CD2	2.41	0.55
1:B:40:LEU:O	1:B:44:LEU:HB2	2.07	0.55
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.36	0.55
3:D:483:HIS:N	3:D:484:PRO:CD	2.56	0.55
3:D:637:LEU:O	3:D:638:LYS:C	2.49	0.55
3:D:644:LEU:CD2	3:D:648:MET:HE2	2.36	0.55
3:D:949:THR:O	3:D:949:THR:HG22	2.06	0.55
1:A:102:ALA:HB1	1:A:106:LYS:HE2	1.87	0.55
1:A:111:VAL:C	1:A:113:PHE:N	2.64	0.55
2:C:260:LEU:O	2:C:261:LEU:O	2.25	0.55
2:C:704:HIS:ND1	2:C:831:ARG:HD2	2.21	0.55
2:C:728:HIS:C	2:C:730:SER:N	2.65	0.55
2:C:876:VAL:O	2:C:880:MET:HB2	2.06	0.55
2:C:882:LEU:N	2:C:882:LEU:CD2	2.62	0.55
3:D:494:LYS:O	3:D:495:ARG:C	2.50	0.55
3:D:496:LEU:HD11	3:D:500:ARG:CZ	2.36	0.55
3:D:497:GLU:HG2	3:D:1390:LEU:HD21	1.89	0.55
3:D:679:ARG:O	3:D:681:ARG:N	2.38	0.55
3:D:950:ILE:HD12	3:D:953:ASP:HB2	1.87	0.55
1:A:41:ARG:NE	2:C:860:HIS:NE2	2.52	0.55
2:C:17:PRO:HD2	2:C:20:GLU:CB	2.36	0.55
2:C:312:ALA:HB1	2:C:318:PRO:CG	2.36	0.55
2:C:494:TYR:O	2:C:495:THR:CB	2.55	0.55
2:C:642:ARG:HD3	2:C:654:LEU:HD23	1.89	0.55
2:C:683:ASN:HA	2:C:687:ALA:O	2.07	0.55
2:C:877:PRO:O	2:C:878:SER:C	2.50	0.55
3:D:465:LEU:HB2	3:D:512:MET:HE1	1.89	0.55
3:D:691:LEU:HD12	3:D:692:GLU:H	1.70	0.55
3:D:795:VAL:HG22	3:D:876:ASN:HD21	1.70	0.55
3:D:903:ASP:OD1	3:D:903:ASP:O	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:966:GLU:O	3:D:967:GLU:C	2.48	0.55
3:D:1066:LEU:C	3:D:1068:VAL:N	2.65	0.55
3:D:1104:HIS:CA	3:D:1223:GLY:HA3	2.36	0.55
1:A:82:LEU:HD23	1:A:128:ILE:HD13	1.88	0.54
1:A:100:LEU:HD23	1:A:113:PHE:CD1	2.42	0.54
1:A:174:ARG:O	1:A:175:ARG:HB2	2.06	0.54
1:B:100:LEU:HD12	1:B:112:ASP:C	2.32	0.54
1:B:131:LEU:O	1:B:131:LEU:HD23	2.07	0.54
2:C:150:PRO:HA	2:C:157:ARG:HA	1.89	0.54
2:C:194:VAL:O	2:C:197:LEU:HB2	2.06	0.54
2:C:460:ARG:CG	2:C:461:VAL:H	2.20	0.54
2:C:677:MET:HE1	2:C:983:PHE:CZ	2.43	0.54
2:C:729:LEU:HD23	2:C:734:LEU:CD2	2.37	0.54
2:C:831:ARG:HH12	2:C:1002:GLU:CB	2.18	0.54
2:C:863:ASP:C	2:C:863:ASP:OD2	2.48	0.54
2:C:910:THR:C	2:C:912:PRO:HD2	2.33	0.54
3:D:115:LEU:C	3:D:117:ASP:H	2.14	0.54
3:D:703:ASN:CG	3:D:704:ARG:N	2.65	0.54
3:D:965:LEU:O	3:D:967:GLU:N	2.38	0.54
3:D:1154:VAL:HG11	3:D:1175:LEU:HD21	1.88	0.54
3:D:1486:GLN:HA	4:E:75:PHE:HA	1.88	0.54
4:E:22:VAL:HG12	4:E:23:VAL:N	2.23	0.54
1:A:131:LEU:CD2	1:A:137:LEU:HD22	2.37	0.54
1:B:73:GLU:N	1:B:73:GLU:OE2	2.40	0.54
1:B:102:ALA:HB3	1:B:137:LEU:O	2.07	0.54
2:C:344:PHE:C	2:C:346:VAL:N	2.58	0.54
2:C:566:THR:C	2:C:568:ALA:H	2.15	0.54
2:C:821:GLU:O	2:C:822:VAL:HG23	2.06	0.54
3:D:879:ARG:NH1	3:D:905:PRO:HD2	2.22	0.54
3:D:1156:ALA:C	3:D:1158:GLY:H	2.15	0.54
3:D:1220:GLU:O	3:D:1222:VAL:HG23	2.07	0.54
4:E:78:ASN:ND2	4:E:79:LEU:HG	2.22	0.54
1:B:102:ALA:CB	1:B:137:LEU:HB3	2.37	0.54
2:C:22:GLN:NE2	2:C:336:VAL:HG21	2.15	0.54
2:C:162:ILE:HG13	2:C:171:TRP:CZ3	2.42	0.54
2:C:394:PHE:HE2	2:C:632:ASN:HB3	1.72	0.54
2:C:434:HIS:O	2:C:436:GLY:N	2.40	0.54
2:C:569:VAL:HG11	2:C:996:LYS:O	2.08	0.54
2:C:729:LEU:HD23	2:C:734:LEU:HD23	1.90	0.54
3:D:135:LEU:HA	3:D:139:GLY:O	2.07	0.54
3:D:1221:ALA:O	3:D:1225:VAL:HG23	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1282:VAL:HG22	3:D:1315:LYS:HA	1.88	0.54
3:D:1354:GLN:O	3:D:1357:TYR:N	2.40	0.54
3:D:1402:GLU:C	3:D:1404:LEU:N	2.62	0.54
1:A:103:GLU:H	1:A:106:LYS:HZ3	1.54	0.54
1:B:124:PRO:HG2	1:B:125:ASP:H	1.72	0.54
2:C:89:THR:HA	2:C:129:ILE:HA	1.89	0.54
2:C:177:GLU:HG2	2:C:181:VAL:N	2.19	0.54
2:C:203:ASP:O	2:C:206:THR:HG22	2.08	0.54
2:C:408:ARG:NH2	2:C:456:ALA:O	2.40	0.54
2:C:493:ARG:HH22	3:D:1070:GLU:CD	2.16	0.54
2:C:1012:PRO:HG3	2:C:1024:LYS:H	1.71	0.54
3:D:126:VAL:H	3:D:456:MET:HE2	1.71	0.54
3:D:572:ARG:HG3	3:D:573:MET:HG3	1.89	0.54
3:D:801:GLY:O	3:D:802:ALA:HB2	2.08	0.54
3:D:1235:THR:O	3:D:1235:THR:HG22	2.08	0.54
3:D:1292:SER:HA	3:D:1304:TYR:O	2.07	0.54
3:D:1436:LEU:HD22	3:D:1458:ASP:OD2	2.08	0.54
1:A:24:VAL:HA	1:A:195:THR:HA	1.89	0.54
1:B:33:GLY:CA	1:B:194:LEU:HD23	2.37	0.54
1:B:41:ARG:HD3	1:B:41:ARG:C	2.32	0.54
1:B:76:VAL:O	1:B:79:ILE:HB	2.07	0.54
2:C:629:ALA:C	2:C:630:ARG:HD3	2.33	0.54
2:C:743:VAL:CG1	2:C:800:VAL:HG21	2.36	0.54
2:C:875:GLY:O	2:C:876:VAL:C	2.49	0.54
2:C:1030:GLN:HE22	3:D:628:ARG:HD3	1.73	0.54
3:D:661:MET:SD	3:D:677:LEU:HD21	2.46	0.54
3:D:703:ASN:OD1	3:D:704:ARG:N	2.41	0.54
3:D:849:ALA:O	3:D:852:ALA:HB3	2.07	0.54
3:D:958:PRO:HG3	3:D:1008:VAL:HB	1.89	0.54
1:A:19:HIS:C	1:A:19:HIS:ND1	2.65	0.54
1:A:62:LEU:H	1:A:62:LEU:CD1	1.93	0.54
1:A:220:HIS:O	1:A:221:LEU:C	2.50	0.54
2:C:134:ARG:HH22	2:C:392:SER:C	2.14	0.54
2:C:224:GLU:C	2:C:226:VAL:N	2.65	0.54
2:C:312:ALA:HB1	2:C:318:PRO:HG3	1.90	0.54
2:C:727:PRO:HG3	2:C:785:VAL:O	2.07	0.54
2:C:862:PRO:HA	2:C:975:TYR:CD1	2.42	0.54
3:D:552:ASN:HA	3:D:555:LYS:CB	2.37	0.54
3:D:634:GLY:O	3:D:636:GLN:OE1	2.26	0.54
3:D:1089:THR:HA	3:D:1092:SER:HB2	1.88	0.54
1:A:124:PRO:O	1:A:125:ASP:C	2.51	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:142:ARG:CG	1:A:143:VAL:H	2.20	0.54
1:A:206:PRO:O	1:A:207:LEU:C	2.50	0.54
1:B:62:LEU:N	1:B:62:LEU:HD23	2.23	0.54
2:C:18:LEU:HD13	2:C:542:LEU:HD21	1.89	0.54
2:C:169:GLY:HA2	2:C:264:PRO:O	2.07	0.54
2:C:347:GLY:O	2:C:377:PRO:HB2	2.07	0.54
2:C:445:GLU:O	2:C:449:ILE:HD13	2.06	0.54
2:C:520:GLU:N	2:C:521:PRO:HD3	2.23	0.54
2:C:690:ILE:HD13	2:C:869:VAL:HA	1.89	0.54
2:C:701:THR:CG2	2:C:832:LYS:HA	2.27	0.54
3:D:542:ASP:O	3:D:545:ARG:N	2.40	0.54
3:D:597:GLU:HG2	3:D:598:ARG:H	1.72	0.54
3:D:1044:GLY:O	3:D:1058:VAL:HG23	2.08	0.54
3:D:1110:GLU:HG3	3:D:1111:ALA:H	1.70	0.54
2:C:642:ARG:H	2:C:656:ALA:HA	1.73	0.54
2:C:648:ARG:NH1	2:C:653:ASP:OD2	2.38	0.54
2:C:957:LYS:HB3	2:C:961:GLU:CB	2.38	0.54
3:D:94:GLU:O	3:D:95:LEU:C	2.51	0.54
3:D:502:PHE:C	3:D:504:ASP:N	2.64	0.54
3:D:729:HIS:ND1	3:D:730:PRO:HG2	2.23	0.54
3:D:810:GLU:C	3:D:812:ALA:N	2.65	0.54
3:D:904:VAL:HG12	3:D:906:GLN:OE1	2.08	0.54
1:A:30:ARG:HH11	1:A:191:LEU:H	1.56	0.54
1:A:35:THR:HG23	1:B:39:PRO:HB3	1.89	0.54
1:B:62:LEU:O	1:B:63:HIS:C	2.50	0.54
1:B:122:MET:O	1:B:124:PRO:HD3	2.08	0.54
2:C:17:PRO:CD	2:C:20:GLU:HB2	2.38	0.54
2:C:18:LEU:HD22	2:C:542:LEU:HD22	1.90	0.54
2:C:110:GLU:O	2:C:113:VAL:HG23	2.07	0.54
2:C:469:THR:HB	2:C:482:GLU:O	2.07	0.54
3:D:1253:ILE:O	3:D:1259:ARG:HB2	2.08	0.54
1:A:74:ASP:O	1:A:76:VAL:N	2.41	0.54
1:B:34:VAL:HG12	1:B:35:THR:N	2.23	0.54
1:B:86:VAL:N	1:B:123:ASN:ND2	2.56	0.54
1:B:86:VAL:H	1:B:123:ASN:CG	2.16	0.54
2:C:261:LEU:HD21	2:C:263:ASP:HB3	1.89	0.54
2:C:267:TYR:CD2	2:C:267:TYR:N	2.73	0.54
2:C:731:GLU:O	2:C:733:ALA:N	2.41	0.54
2:C:745:ILE:HG22	2:C:746:GLY:N	2.23	0.54
3:D:733:CYS:O	3:D:736:PHE:HB2	2.08	0.54
3:D:894:LYS:O	3:D:895:VAL:C	2.49	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1015:ASN:C	3:D:1016:TYR:CG	2.83	0.54
3:D:1265:GLU:O	3:D:1266:ALA:HB3	2.08	0.54
1:A:56:VAL:O	1:A:164:ILE:HG12	2.07	0.53
1:A:98:LEU:C	1:A:99:ILE:HG13	2.33	0.53
1:A:157:ILE:HD11	1:A:160:ARG:NE	2.04	0.53
1:B:108:VAL:HG12	1:B:108:VAL:O	2.07	0.53
2:C:134:ARG:HH12	2:C:392:SER:CB	2.20	0.53
2:C:336:VAL:O	2:C:339:LEU:N	2.36	0.53
2:C:523:ILE:C	2:C:525:ALA:N	2.56	0.53
2:C:598:GLU:HG3	2:C:614:ARG:NH2	2.23	0.53
3:D:573:MET:HA	3:D:576:GLU:HB2	1.89	0.53
3:D:657:LEU:CD1	3:D:690:ALA:HB1	2.37	0.53
3:D:811:GLU:HA	3:D:814:ALA:CB	2.34	0.53
3:D:1156:ALA:C	3:D:1158:GLY:N	2.66	0.53
4:E:68:LEU:C	4:E:70:THR:H	2.15	0.53
1:A:223:TYR:O	1:A:225:ALA:N	2.40	0.53
2:C:111:ASP:O	2:C:113:VAL:N	2.40	0.53
2:C:492:ASP:H	2:C:532:MET:H	1.56	0.53
2:C:556:ASN:O	2:C:559:LEU:HG	2.08	0.53
3:D:500:ARG:O	3:D:504:ASP:N	2.41	0.53
3:D:664:LYS:O	3:D:665:ALA:HB3	2.07	0.53
3:D:1354:GLN:NE2	3:D:1369:ILE:CD1	2.71	0.53
3:D:1381:GLU:OE1	3:D:1392:GLU:HG3	2.08	0.53
1:A:37:GLY:CA	1:A:194:LEU:HD11	2.39	0.53
1:A:127:HIS:CE1	1:A:130:THR:HG1	2.26	0.53
1:A:181:GLU:O	1:A:193:LYS:HB3	2.08	0.53
1:B:14:THR:HG21	1:B:22:GLU:HG3	1.90	0.53
2:C:433:THR:OG1	2:C:441:VAL:HG12	2.08	0.53
2:C:677:MET:H	2:C:873:PRO:HD3	1.73	0.53
2:C:718:GLY:HA3	2:C:761:PHE:CD1	2.42	0.53
2:C:914:ILE:O	2:C:918:LEU:HB2	2.08	0.53
2:C:1068:GLN:O	2:C:1072:LYS:HG3	2.09	0.53
3:D:936:TYR:CE2	3:D:940:THR:HG21	2.44	0.53
3:D:1060:SER:OG	3:D:1066:LEU:HD13	2.08	0.53
3:D:1148:ARG:HD2	3:D:1189:VAL:CG2	2.37	0.53
3:D:1236:GLN:O	3:D:1237:LEU:HD23	2.08	0.53
3:D:1385:PRO:HB2	3:D:1388:SER:O	2.09	0.53
3:D:1409:ILE:O	3:D:1409:ILE:HG22	2.08	0.53
4:E:3:GLU:HB2	4:E:6:ILE:CG1	2.38	0.53
1:A:198:ILE:HG21	1:A:206:PRO:HA	1.89	0.53
1:B:125:ASP:OD2	1:B:125:ASP:N	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:203:SER:OG	1:B:204:VAL:N	2.40	0.53
2:C:162:ILE:HG13	2:C:171:TRP:HH2	1.72	0.53
2:C:253:ALA:O	2:C:255:ALA:N	2.37	0.53
2:C:514:VAL:C	2:C:516:ARG:H	2.17	0.53
2:C:706:GLU:OE1	2:C:706:GLU:HA	2.09	0.53
2:C:815:LEU:HD12	2:C:815:LEU:N	2.23	0.53
2:C:840:ALA:HA	2:C:846:LYS:HA	1.90	0.53
2:C:903:SER:OG	2:C:909:ALA:HB3	2.08	0.53
2:C:976:ASP:C	2:C:978:ARG:H	2.16	0.53
2:C:996:LYS:HE2	2:C:1000:MET:CE	2.38	0.53
3:D:70:GLY:C	3:D:72:VAL:H	2.16	0.53
3:D:583:ASP:CG	3:D:604:THR:HG1	2.15	0.53
3:D:647:ARG:O	3:D:650:LEU:HB3	2.07	0.53
3:D:761:ILE:HG21	4:E:20:THR:OG1	2.09	0.53
3:D:1009:PHE:CD2	3:D:1009:PHE:O	2.61	0.53
3:D:1206:TYR:HD2	3:D:1216:VAL:HG21	1.73	0.53
2:C:194:VAL:HG22	2:C:221:LEU:CD1	2.38	0.53
2:C:290:LEU:HG	2:C:291:VAL:N	2.24	0.53
2:C:628:TYR:N	2:C:628:TYR:CD1	2.76	0.53
2:C:890:LEU:O	2:C:890:LEU:HG	2.09	0.53
2:C:1076:VAL:O	2:C:1078:GLU:HG3	2.09	0.53
3:D:149:LYS:O	3:D:150:ARG:C	2.51	0.53
3:D:815:ALA:HB3	3:D:832:ARG:HD2	1.90	0.53
4:E:77:GLU:OE1	4:E:77:GLU:HA	2.09	0.53
1:A:46:SER:OG	2:C:856:GLU:HG2	2.07	0.53
1:A:71:VAL:HA	1:A:131:LEU:HA	1.90	0.53
1:A:122:MET:SD	1:A:122:MET:N	2.70	0.53
1:A:222:ASN:C	1:A:224:PHE:N	2.67	0.53
2:C:854:PRO:O	2:C:855:VAL:C	2.51	0.53
2:C:970:GLY:HA2	3:D:950:ILE:HG21	1.91	0.53
2:C:1005:MET:SD	3:D:724:GLN:HA	2.49	0.53
3:D:117:ASP:C	3:D:119:PHE:N	2.66	0.53
3:D:123:LEU:O	3:D:124:GLU:C	2.51	0.53
3:D:660:LYS:O	3:D:664:LYS:HB2	2.08	0.53
3:D:691:LEU:HD12	3:D:691:LEU:N	2.23	0.53
3:D:924:MET:O	3:D:925:GLU:C	2.51	0.53
3:D:957:ILE:HD11	3:D:1063:ARG:HD2	1.91	0.53
3:D:1012:PHE:O	3:D:1013:GLU:C	2.52	0.53
3:D:1451:ALA:HA	3:D:1456:LYS:CG	2.36	0.53
1:A:199:TRP:O	1:A:200:THR:O	2.26	0.53
2:C:42:VAL:HG12	2:C:43:GLY:H	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:134:ARG:NH2	2:C:393:GLN:HA	2.24	0.53
2:C:399:ASN:HD22	2:C:401:LEU:H	1.53	0.53
2:C:466:PHE:C	2:C:466:PHE:HD1	2.17	0.53
2:C:491:GLU:O	2:C:509:ALA:CB	2.55	0.53
2:C:690:ILE:O	2:C:852:ILE:HA	2.09	0.53
2:C:816:LYS:HB3	2:C:819:VAL:HG21	1.89	0.53
2:C:1034:GLU:HG3	2:C:1035:MET:N	2.24	0.53
3:D:502:PHE:HZ	3:D:511:TRP:CZ2	2.23	0.53
3:D:661:MET:O	3:D:664:LYS:HB3	2.09	0.53
3:D:1037:ARG:O	3:D:1041:GLY:O	2.27	0.53
3:D:1039:LEU:O	3:D:1061:SER:O	2.27	0.53
3:D:1104:HIS:C	3:D:1106:ILE:N	2.57	0.53
3:D:1106:ILE:HD12	3:D:1371:ILE:CG2	2.39	0.53
1:A:223:TYR:CD1	1:B:9:PRO:HD2	2.44	0.53
2:C:136:ILE:HG22	2:C:336:VAL:HG22	1.90	0.53
2:C:157:ARG:HG3	2:C:313:LEU:HG	1.91	0.53
2:C:163:ILE:HG12	2:C:169:GLY:O	2.08	0.53
2:C:335:THR:O	2:C:336:VAL:C	2.52	0.53
2:C:346:VAL:O	2:C:347:GLY:C	2.52	0.53
2:C:400:PRO:O	2:C:401:LEU:C	2.51	0.53
2:C:613:VAL:HG11	2:C:619:ARG:CD	2.29	0.53
2:C:701:THR:HG22	2:C:832:LYS:HG2	1.91	0.53
2:C:733:ALA:O	2:C:734:LEU:C	2.51	0.53
2:C:946:ARG:HH12	2:C:984:GLU:C	2.17	0.53
3:D:636:GLN:HE21	3:D:642:CYS:HA	1.73	0.53
3:D:681:ARG:O	3:D:682:ASP:HB3	2.09	0.53
3:D:862:ASP:CA	3:D:876:ASN:HB3	2.25	0.53
3:D:924:MET:O	3:D:927:THR:N	2.42	0.53
3:D:966:GLU:O	3:D:969:ASP:N	2.42	0.53
3:D:1079:ARG:O	3:D:1080:LYS:C	2.51	0.53
3:D:1344:ALA:O	3:D:1345:VAL:C	2.51	0.53
3:D:1484:PHE:HE1	4:E:22:VAL:HG23	1.74	0.53
2:C:257:LEU:HB3	2:C:264:PRO:HG3	1.90	0.53
2:C:614:ARG:NH1	2:C:623:HIS:HE1	2.05	0.53
3:D:636:GLN:HE21	3:D:642:CYS:CA	2.21	0.53
3:D:679:ARG:O	3:D:680:GLN:HG2	2.09	0.53
3:D:764:LEU:HD23	3:D:767:HIS:NE2	2.24	0.53
3:D:1157:LEU:H	3:D:1183:GLU:CD	2.17	0.53
3:D:1422:LEU:C	3:D:1422:LEU:HD23	2.34	0.53
1:A:98:LEU:HB3	1:A:113:PHE:CD2	2.43	0.53
1:A:111:VAL:HG22	1:A:124:PRO:CB	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:45:GLN:O	2:C:48:PHE:HB2	2.09	0.53
2:C:159:ILE:HD12	2:C:174:LEU:HB2	1.91	0.53
2:C:356:ARG:HA	2:C:359:MET:HG3	1.91	0.53
2:C:605:LYS:HZ3	2:C:611:ILE:HG13	1.70	0.53
2:C:689:VAL:CG1	2:C:853:LEU:HD22	2.39	0.53
2:C:897:LEU:O	2:C:899:GLN:HG3	2.09	0.53
2:C:1012:PRO:HG2	2:C:1027:PHE:HA	1.91	0.53
3:D:617:ASN:O	3:D:619:LEU:O	2.27	0.53
3:D:1152:ARG:O	3:D:1153:GLU:C	2.51	0.53
1:A:76:VAL:O	1:A:77:GLU:C	2.52	0.52
2:C:21:ILE:HG23	2:C:460:ARG:HH22	1.73	0.52
2:C:258:PHE:CD1	2:C:258:PHE:N	2.77	0.52
2:C:342:ASP:O	2:C:345:ARG:HB2	2.09	0.52
2:C:723:THR:OG1	2:C:724:ARG:N	2.43	0.52
3:D:709:HIS:CD2	3:D:711:LEU:HB2	2.44	0.52
3:D:1330:ALA:O	3:D:1331:ILE:C	2.51	0.52
3:D:1426:THR:C	3:D:1428:SER:N	2.67	0.52
3:D:1481:PHE:O	3:D:1481:PHE:CD2	2.62	0.52
1:A:79:ILE:HG23	1:A:166:VAL:HG22	1.91	0.52
1:A:102:ALA:CB	1:A:131:LEU:HD21	2.39	0.52
2:C:48:PHE:O	2:C:49:LYS:C	2.51	0.52
2:C:208:VAL:HG11	2:C:218:VAL:HG21	1.92	0.52
2:C:223:ASP:C	2:C:225:ALA:H	2.18	0.52
2:C:517:ARG:NH2	3:D:976:GLU:OE1	2.43	0.52
2:C:820:ARG:O	2:C:821:GLU:HB3	2.08	0.52
2:C:1030:GLN:CB	3:D:626:SER:HB3	2.39	0.52
2:C:1052:MET:CG	3:D:623:VAL:HG22	2.39	0.52
3:D:99:ALA:O	3:D:100:ALA:HB2	2.07	0.52
3:D:502:PHE:O	3:D:504:ASP:N	2.42	0.52
3:D:543:LEU:HB3	3:D:581:VAL:HG22	1.92	0.52
3:D:1048:LYS:HG2	3:D:1054:PHE:CZ	2.45	0.52
3:D:1410:ALA:O	3:D:1414:VAL:N	2.42	0.52
4:E:68:LEU:HA	4:E:73:LEU:HD11	1.90	0.52
1:A:38:ASN:O	1:A:39:PRO:C	2.52	0.52
1:A:205:THR:CG2	1:A:206:PRO:HD2	2.37	0.52
2:C:176:VAL:HG12	2:C:182:VAL:HG22	1.90	0.52
2:C:491:GLU:HG2	2:C:510:THR:HB	1.91	0.52
2:C:610:ARG:CB	2:C:624:PRO:HA	2.39	0.52
2:C:890:LEU:HD11	2:C:901:TYR:CE2	2.44	0.52
3:D:645:PRO:HA	3:D:722:GLU:O	2.09	0.52
3:D:668:PRO:HG2	3:D:672:ALA:CB	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1089:THR:HA	3:D:1092:SER:HB3	1.90	0.52
3:D:1358:ARG:HH22	3:D:1365:HIS:CD2	2.26	0.52
1:B:113:PHE:O	1:B:115:PRO:HD3	2.09	0.52
2:C:421:GLU:HG3	2:C:423:ALA:H	1.74	0.52
3:D:28(U):UNK:O	3:D:29(U):UNK:O	2.27	0.52
3:D:564:GLU:HA	3:D:567:ILE:CG2	2.39	0.52
3:D:747:VAL:O	3:D:748:HIS:O	2.28	0.52
3:D:767:HIS:NE2	4:E:6:ILE:HG13	2.23	0.52
3:D:795:VAL:CG2	3:D:876:ASN:HD21	2.23	0.52
3:D:855:HIS:O	3:D:857:LEU:CD2	2.57	0.52
3:D:973:ARG:C	3:D:975:ILE:H	2.17	0.52
3:D:1018:PHE:HA	3:D:1024:MET:CE	2.40	0.52
3:D:1060:SER:OG	3:D:1068:VAL:HG23	2.09	0.52
1:A:96:THR:OG1	1:A:97:THR:N	2.43	0.52
1:A:181:GLU:OE2	2:C:934:PHE:HD2	1.92	0.52
1:A:199:TRP:HD1	1:A:200:THR:HG1	1.55	0.52
1:B:105:PRO:HD3	1:B:133:GLU:HA	1.91	0.52
2:C:202:TYR:O	2:C:203:ASP:HB3	2.09	0.52
2:C:332:ARG:HG2	2:C:333:ILE:N	2.23	0.52
2:C:662:GLU:O	2:C:664:GLY:N	2.42	0.52
3:D:688:TRP:C	3:D:690:ALA:N	2.61	0.52
3:D:1152:ARG:N	3:D:1163:GLU:HG2	2.24	0.52
1:A:102:ALA:HB3	1:A:137:LEU:CB	2.39	0.52
1:A:222:ASN:O	1:A:223:TYR:C	2.53	0.52
1:B:59:GLU:O	1:B:60:ASP:HB2	2.09	0.52
1:B:144:ASP:CG	1:B:145:ARG:H	2.18	0.52
2:C:379:GLU:O	2:C:380:ALA:C	2.51	0.52
2:C:559:LEU:HD12	2:C:560:MET:N	2.25	0.52
2:C:577:PRO:HA	2:C:671:ASN:HD22	1.73	0.52
2:C:593:ALA:HB1	2:C:659:PRO:HD3	1.90	0.52
2:C:963:LEU:O	2:C:964:LYS:C	2.52	0.52
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.09	0.52
3:D:590:PRO:O	3:D:600:LEU:HD21	2.09	0.52
3:D:792:ILE:O	3:D:792:ILE:HG23	2.10	0.52
3:D:815:ALA:O	3:D:817:GLU:N	2.43	0.52
3:D:902:MET:HE3	3:D:902:MET:HA	1.92	0.52
1:A:34:VAL:C	1:A:36:LEU:N	2.67	0.52
2:C:368:THR:OG1	2:C:371:LYS:HD2	2.09	0.52
2:C:1088:LEU:HD21	3:D:614:PHE:HE2	1.75	0.52
3:D:26:VAL:C	3:D:28:LYS:N	2.68	0.52
3:D:601:ARG:HA	3:D:601:ARG:HH11	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:628:ARG:O	3:D:629:SER:HB2	2.10	0.52
3:D:710:ARG:NH2	3:D:1220:GLU:OE2	2.42	0.52
3:D:1062:PHE:CE1	3:D:1066:LEU:HD23	2.45	0.52
3:D:1070:GLU:HG3	3:D:1073:ILE:HB	1.92	0.52
3:D:1148:ARG:CD	3:D:1189:VAL:HG21	2.38	0.52
4:E:40:LEU:C	4:E:42:PRO:HD2	2.34	0.52
1:A:11:PHE:HD1	1:A:25:LEU:HD23	1.75	0.52
1:B:37:GLY:HA3	1:B:194:LEU:HD21	1.90	0.52
2:C:34:VAL:HG13	2:C:35:PRO:HD2	1.92	0.52
2:C:134:ARG:HH12	2:C:392:SER:HB2	1.74	0.52
2:C:184:MET:CG	2:C:193:LEU:HD23	2.40	0.52
2:C:631:SER:CB	2:C:635:THR:HB	2.40	0.52
2:C:637:PHE:CG	2:C:637:PHE:O	2.62	0.52
2:C:974:LEU:HD23	2:C:987:ILE:CB	2.39	0.52
3:D:112:ILE:O	3:D:114:THR:N	2.42	0.52
3:D:687:VAL:O	3:D:690:ALA:N	2.43	0.52
3:D:927:THR:HG22	3:D:931:LEU:HD23	1.92	0.52
3:D:1052:GLU:O	3:D:1053:THR:O	2.28	0.52
3:D:1093:GLY:HA2	3:D:1097:ARG:HE	1.74	0.52
3:D:1107:VAL:HG22	3:D:1221:ALA:HA	1.91	0.52
3:D:1315:LYS:O	3:D:1316:ASP:O	2.27	0.52
3:D:1336:LEU:HD23	3:D:1336:LEU:C	2.33	0.52
3:D:1404:LEU:CD2	3:D:1416:VAL:H	2.23	0.52
3:D:1466:ASN:HD21	3:D:1471:ARG:HH11	1.55	0.52
1:A:30:ARG:CA	1:A:191:LEU:HA	2.40	0.52
1:A:142:ARG:HG3	1:A:143:VAL:H	1.74	0.52
2:C:266:ARG:HG2	2:C:268:ASP:HA	1.92	0.52
2:C:283:VAL:CG1	2:C:284:GLY:N	2.71	0.52
2:C:308:ARG:C	2:C:310:LEU:N	2.68	0.52
2:C:872:ASN:OD1	2:C:873:PRO:HD2	2.09	0.52
2:C:912:PRO:O	2:C:915:LYS:HB2	2.10	0.52
2:C:1043:TYR:CE2	3:D:763:MET:HA	2.45	0.52
3:D:575:GLN:O	3:D:579:ASP:N	2.32	0.52
3:D:661:MET:HE1	3:D:677:LEU:HD21	1.92	0.52
3:D:1257:LEU:O	3:D:1258:PRO:C	2.53	0.52
3:D:1340:LYS:HG3	3:D:1340:LYS:O	2.10	0.52
3:D:1380:VAL:HG22	3:D:1395:VAL:O	2.10	0.52
1:A:26:GLU:HB3	1:A:27:PRO:HD2	1.86	0.52
1:B:31:GLY:H	1:B:192:ASP:CG	2.17	0.52
2:C:163:ILE:HG22	2:C:265:LYS:HZ2	1.74	0.52
2:C:774:LEU:HA	2:C:777:ILE:HD12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:837:ASP:O	2:C:848:VAL:HA	2.10	0.52
2:C:970:GLY:N	3:D:950:ILE:HG21	2.25	0.52
2:C:987:ILE:CA	3:D:948:ILE:HG21	2.39	0.52
3:D:631:ILE:HD13	3:D:745:MET:HE2	1.90	0.52
3:D:836:VAL:HG11	3:D:858:LEU:HG	1.91	0.52
3:D:839:LEU:O	3:D:840:LYS:O	2.28	0.52
3:D:1315:LYS:O	3:D:1316:ASP:C	2.52	0.52
3:D:1482:VAL:CG1	4:E:18:ARG:HA	2.40	0.52
3:D:1482:VAL:HG13	3:D:1484:PHE:CE2	2.45	0.52
1:A:79:ILE:CG2	1:A:166:VAL:HG13	2.40	0.51
1:A:80:LEU:HD23	1:A:83:LYS:NZ	2.24	0.51
1:A:102:ALA:HB2	1:A:108:VAL:HG21	1.91	0.51
1:A:131:LEU:CD2	1:A:137:LEU:HB2	2.40	0.51
1:B:133:GLU:OE1	1:B:134:GLY:N	2.38	0.51
2:C:65:VAL:CG2	2:C:101:ILE:HB	2.39	0.51
2:C:77:PRO:CD	2:C:92:ALA:HA	2.40	0.51
2:C:110:GLU:HB2	2:C:369:PRO:HG2	1.91	0.51
2:C:172:ILE:HG13	2:C:186:VAL:HG22	1.92	0.51
2:C:569:VAL:O	2:C:569:VAL:CG1	2.52	0.51
2:C:642:ARG:CD	2:C:654:LEU:HD23	2.40	0.51
2:C:763:GLY:O	2:C:764:GLU:C	2.52	0.51
2:C:889:HIS:C	2:C:891:GLY:N	2.59	0.51
2:C:918:LEU:HD22	2:C:968:ASP:CA	2.30	0.51
3:D:547:LEU:HD13	3:D:577:ALA:C	2.35	0.51
3:D:772:PRO:CD	3:D:778:LEU:N	2.73	0.51
3:D:1060:SER:OG	3:D:1066:LEU:HA	2.09	0.51
3:D:1259:ARG:O	3:D:1261:ILE:N	2.43	0.51
3:D:1271:ALA:CB	3:D:1329:GLY:HA3	2.35	0.51
3:D:1273:ALA:HB2	3:D:1327:THR:CB	2.40	0.51
3:D:1281:VAL:CG1	3:D:1282:VAL:HG23	2.28	0.51
3:D:1403:ALA:O	3:D:1416:VAL:HG21	2.10	0.51
1:A:35:THR:CG2	1:B:39:PRO:HB3	2.40	0.51
1:A:53:VAL:HG13	1:A:141:VAL:HG23	1.91	0.51
1:A:109:ARG:O	1:A:111:VAL:N	2.43	0.51
1:B:98:LEU:HB2	1:B:141:VAL:O	2.10	0.51
1:B:133:GLU:CG	1:B:134:GLY:N	2.72	0.51
2:C:211:LEU:HD22	2:C:304:LEU:CD1	2.29	0.51
2:C:549:PHE:CE2	2:C:886:LEU:HD13	2.46	0.51
2:C:666:LEU:HD12	2:C:667:ALA:N	2.24	0.51
2:C:743:VAL:CG1	2:C:744:ARG:N	2.73	0.51
3:D:578:VAL:HG12	3:D:582:ILE:CD1	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:691:LEU:O	3:D:693:GLU:N	2.43	0.51
3:D:773:ALA:O	3:D:774:SER:HB2	2.10	0.51
3:D:932:ASP:O	3:D:933:ALA:C	2.53	0.51
3:D:1312:LEU:O	3:D:1313:LEU:O	2.27	0.51
4:E:68:LEU:HA	4:E:73:LEU:HD12	1.92	0.51
2:C:344:PHE:CE2	2:C:378:LEU:HD23	2.46	0.51
2:C:547:ILE:HG23	2:C:843:HIS:HE1	1.75	0.51
3:D:35(U):UNK:O	3:D:36(U):UNK:CB	2.57	0.51
3:D:502:PHE:C	3:D:504:ASP:H	2.19	0.51
3:D:687:VAL:O	3:D:690:ALA:CB	2.56	0.51
3:D:699:VAL:HG22	3:D:756:GLN:HE21	1.74	0.51
3:D:910:SER:O	3:D:911:LEU:C	2.54	0.51
3:D:927:THR:HG22	3:D:931:LEU:CD2	2.40	0.51
3:D:1061:SER:O	3:D:1062:PHE:HB2	2.09	0.51
3:D:1149:VAL:O	3:D:1149:VAL:HG12	2.11	0.51
3:D:1193:LEU:HB3	3:D:1346:GLU:OE1	2.10	0.51
3:D:1345:VAL:O	3:D:1346:GLU:C	2.53	0.51
4:E:61:VAL:O	4:E:64:ALA:HB3	2.10	0.51
1:A:111:VAL:CG2	1:A:125:ASP:N	2.73	0.51
1:A:112:ASP:OD2	1:A:112:ASP:N	2.42	0.51
1:A:142:ARG:HG2	1:A:142:ARG:HH11	1.73	0.51
1:B:64:GLU:O	1:B:75:VAL:HB	2.10	0.51
1:B:100:LEU:CD1	1:B:112:ASP:HB2	2.40	0.51
2:C:14:PRO:HA	2:C:458:TYR:CD1	2.46	0.51
2:C:162:ILE:HD12	2:C:162:ILE:H	1.74	0.51
2:C:563:ASN:O	2:C:566:THR:N	2.43	0.51
2:C:572:ILE:O	2:C:573:ARG:HB2	2.09	0.51
2:C:836:GLY:O	2:C:848:VAL:HG23	2.10	0.51
2:C:839:LEU:O	2:C:995:MET:O	2.29	0.51
3:D:685:ASP:O	3:D:687:VAL:N	2.44	0.51
3:D:776:GLU:HB3	3:D:912:LYS:CE	2.38	0.51
3:D:808:THR:HG22	3:D:808:THR:O	2.09	0.51
3:D:890:VAL:HG12	3:D:891:GLY:N	2.24	0.51
3:D:1080:LYS:C	3:D:1082:GLY:H	2.19	0.51
3:D:1232:GLU:O	3:D:1234:GLY:N	2.35	0.51
4:E:19:LEU:CD1	4:E:23:VAL:HG23	2.40	0.51
1:A:74:ASP:OD2	2:C:627:ARG:NH2	2.43	0.51
1:A:217:LEU:CD2	1:B:221:LEU:HD11	2.40	0.51
1:A:220:HIS:HA	1:A:223:TYR:HD2	1.75	0.51
2:C:320:HIS:O	2:C:322:VAL:HG12	2.10	0.51
2:C:425:PHE:O	2:C:426:ASP:OD1	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:430:VAL:O	2:C:431:HIS:C	2.53	0.51
2:C:572:ILE:O	2:C:573:ARG:CB	2.58	0.51
2:C:577:PRO:CG	2:C:580:MET:HB3	2.35	0.51
2:C:580:MET:HE3	2:C:584:GLU:HG3	1.92	0.51
2:C:655:LEU:O	2:C:656:ALA:HB3	2.09	0.51
2:C:675:ALA:CB	2:C:989:VAL:HG22	2.41	0.51
2:C:694:LEU:O	2:C:699:PHE:HB2	2.09	0.51
2:C:1009:SER:HA	3:D:625:TYR:CD2	2.45	0.51
3:D:710:ARG:C	3:D:712:GLY:H	2.19	0.51
3:D:779:ALA:O	3:D:931:LEU:HD11	2.11	0.51
3:D:893:GLU:O	3:D:894:LYS:HB2	2.11	0.51
3:D:1138:ARG:H	3:D:1138:ARG:CD	2.18	0.51
3:D:1207:GLY:O	3:D:1208:TYR:O	2.29	0.51
4:E:59:ASN:HB3	4:E:62:THR:OG1	2.10	0.51
1:A:42:ARG:NE	1:B:35:THR:OG1	2.40	0.51
1:A:134:GLY:O	1:A:136:LYS:N	2.44	0.51
1:A:163:ALA:O	1:A:164:ILE:HG12	2.10	0.51
1:A:196:LEU:N	1:A:196:LEU:HD23	2.26	0.51
1:B:99:ILE:HD13	1:B:138:TYR:OH	2.11	0.51
1:B:125:ASP:O	1:B:126:LEU:CB	2.59	0.51
1:B:154:ARG:O	1:B:155:HIS:HB2	2.11	0.51
2:C:35:PRO:C	2:C:37:GLU:H	2.17	0.51
2:C:46:ALA:O	2:C:47:ALA:C	2.53	0.51
2:C:455:LEU:HD12	2:C:456:ALA:O	2.10	0.51
2:C:531:PHE:O	2:C:532:MET:CB	2.59	0.51
2:C:774:LEU:HD23	2:C:777:ILE:HD12	1.91	0.51
2:C:877:PRO:O	2:C:881:ASN:N	2.43	0.51
2:C:970:GLY:CA	3:D:950:ILE:HG21	2.41	0.51
2:C:1005:MET:HE2	3:D:724:GLN:OE1	2.10	0.51
3:D:601:ARG:HD3	3:D:605:ASP:OD2	2.10	0.51
3:D:681:ARG:O	3:D:682:ASP:CB	2.58	0.51
3:D:1050:SER:O	3:D:1051:GLY:C	2.54	0.51
3:D:1320:VAL:HG21	3:D:1339:ALA:O	2.11	0.51
3:D:1353:ILE:HG22	3:D:1354:GLN:N	2.25	0.51
1:A:22:GLU:HA	1:A:197:ARG:HA	1.92	0.51
1:A:86:VAL:HG21	1:A:202:GLY:HA3	1.92	0.51
1:A:142:ARG:C	1:A:143:VAL:HG22	2.36	0.51
2:C:263:ASP:CB	2:C:264:PRO:CD	2.88	0.51
2:C:390:GLN:CD	2:C:413:LEU:O	2.53	0.51
2:C:423:ALA:C	2:C:427:VAL:HG21	2.35	0.51
2:C:495:THR:CG2	2:C:496:ILE:H	2.21	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:692:GLU:HG2	2:C:696:LYS:HE3	1.92	0.51
2:C:882:LEU:HD11	2:C:884:GLN:HE21	1.75	0.51
2:C:1021:LEU:HD21	3:D:622:ARG:CZ	2.41	0.51
3:D:558:LEU:C	3:D:560:GLN:N	2.66	0.51
3:D:571:LYS:C	3:D:573:MET:N	2.66	0.51
3:D:628:ARG:HB3	3:D:628:ARG:HH11	1.76	0.51
3:D:683:ILE:CG2	3:D:687:VAL:HB	2.40	0.51
3:D:906:GLN:O	3:D:907:GLU:HB2	2.11	0.51
3:D:1018:PHE:O	3:D:1020:PRO:N	2.43	0.51
1:A:79:ILE:HD11	1:A:164:ILE:CG1	2.40	0.51
1:A:82:LEU:HD21	1:A:128:ILE:HD13	1.92	0.51
1:A:99:ILE:O	1:A:114:THR:CG2	2.58	0.51
2:C:9:ILE:CG2	2:C:10:ARG:N	2.71	0.51
2:C:474:VAL:CG1	2:C:530:GLU:HA	2.40	0.51
2:C:654:LEU:HD11	2:C:657:ASP:CA	2.30	0.51
2:C:690:ILE:HG22	2:C:852:ILE:HG22	1.93	0.51
2:C:843:HIS:HD2	2:C:884:GLN:CB	2.24	0.51
2:C:1018:GLN:HE21	2:C:1060:ILE:HG12	1.76	0.51
3:D:131:LYS:O	3:D:132:TYR:C	2.54	0.51
3:D:520:LEU:HB3	3:D:521:PRO:CD	2.38	0.51
3:D:772:PRO:CB	3:D:778:LEU:HB2	2.38	0.51
3:D:829:VAL:O	3:D:830:ALA:HB2	2.11	0.51
3:D:907:GLU:HB3	3:D:911:LEU:HD21	1.93	0.51
3:D:1095:LEU:HD22	3:D:1257:LEU:HD11	1.92	0.51
3:D:1257:LEU:O	3:D:1260:VAL:N	2.44	0.51
3:D:1283:ARG:HH21	3:D:1285:GLU:CG	2.22	0.51
3:D:1404:LEU:HD21	3:D:1416:VAL:N	2.25	0.51
4:E:9:LEU:CD2	4:E:69:LEU:HD13	2.41	0.51
4:E:21:VAL:O	4:E:24:ALA:HB3	2.11	0.51
1:A:23:PHE:HZ	1:A:206:PRO:HB2	1.76	0.51
1:A:156:GLY:O	1:A:163:ALA:CB	2.57	0.51
2:C:226:VAL:O	2:C:229:MET:HG2	2.11	0.51
2:C:324:ASP:C	2:C:326:ASP:N	2.66	0.51
2:C:391:LEU:HD22	2:C:415:PRO:CD	2.41	0.51
2:C:400:PRO:HG3	2:C:659:PRO:HG2	1.93	0.51
2:C:554:ASP:O	2:C:555:ALA:C	2.54	0.51
3:D:469:ASP:O	3:D:471:GLU:N	2.43	0.51
1:A:219:GLU:O	1:A:222:ASN:HB2	2.11	0.51
2:C:97:ARG:HG2	2:C:112:GLU:N	2.17	0.51
2:C:298:PHE:N	2:C:298:PHE:CD1	2.79	0.51
2:C:568:ALA:O	2:C:569:VAL:CG1	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:795:GLY:O	2:C:796:GLU:C	2.54	0.51
2:C:833:LEU:C	2:C:834:GLN:HG3	2.35	0.51
2:C:892:LEU:C	2:C:894:GLY:N	2.68	0.51
2:C:906:PHE:CD1	3:D:1069:LEU:HD12	2.45	0.51
2:C:953:VAL:HG13	2:C:965:GLU:OE1	2.10	0.51
3:D:552:ASN:C	3:D:554:LEU:N	2.63	0.51
3:D:953:ASP:O	3:D:954:ASP:CB	2.59	0.51
3:D:989:ARG:O	3:D:993:VAL:HG23	2.11	0.51
3:D:1108:VAL:O	3:D:1218:ILE:HA	2.11	0.51
3:D:1220:GLU:O	3:D:1222:VAL:N	2.44	0.51
1:A:103:GLU:O	1:A:104:GLY:C	2.54	0.50
1:A:142:ARG:NH1	1:A:144:ASP:OD1	2.44	0.50
1:B:187:GLN:O	1:B:188:ARG:C	2.53	0.50
2:C:102:HIS:CD2	2:C:106:GLY:HA3	2.34	0.50
2:C:140:ILE:HD11	2:C:331:ARG:HH11	1.76	0.50
2:C:257:LEU:O	2:C:258:PHE:C	2.53	0.50
2:C:550:LEU:HB3	2:C:905:VAL:HG13	1.93	0.50
2:C:578:VAL:O	2:C:901:TYR:N	2.28	0.50
2:C:676:ILE:CG2	2:C:677:MET:N	2.73	0.50
2:C:722:ILE:HD12	2:C:821:GLU:OE1	2.11	0.50
2:C:800:VAL:HG12	2:C:800:VAL:O	2.11	0.50
2:C:1026:GLN:O	2:C:1027:PHE:CB	2.60	0.50
2:C:1052:MET:HE3	2:C:1056:LYS:NZ	2.26	0.50
3:D:126:VAL:N	3:D:456:MET:HE2	2.26	0.50
3:D:30(U):UNK:HA	3:D:35(U):UNK:O	2.11	0.50
3:D:659:LYS:HZ2	3:D:663:GLU:HB2	1.75	0.50
3:D:728:LEU:HD13	3:D:745:MET:HE1	1.93	0.50
3:D:770:LEU:HB2	3:D:919:PHE:HE1	1.76	0.50
3:D:963:ARG:HG2	3:D:967:GLU:OE2	2.10	0.50
3:D:1083:ALA:O	3:D:1086:ALA:HB3	2.11	0.50
3:D:1180:GLU:C	3:D:1182:GLY:N	2.70	0.50
3:D:1426:THR:O	3:D:1428:SER:N	2.43	0.50
1:A:103:GLU:H	1:A:106:LYS:CE	2.25	0.50
1:A:157:ILE:HG12	1:A:158:LYS:N	2.26	0.50
1:B:100:LEU:HA	1:B:113:PHE:HA	1.94	0.50
1:B:175:ARG:HD3	1:B:199:TRP:CD1	2.46	0.50
2:C:153:ALA:O	2:C:154:ARG:HD3	2.12	0.50
2:C:252:LYS:HZ3	2:C:293:PHE:HA	1.76	0.50
2:C:323:ASP:O	2:C:324:ASP:C	2.51	0.50
2:C:540:PHE:CE1	2:C:906:PHE:CE1	2.98	0.50
2:C:749:VAL:CG1	2:C:792:VAL:HG21	2.35	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:814:GLU:C	2:C:815:LEU:HD12	2.36	0.50
2:C:1009:SER:HB2	3:D:651:GLU:OE1	2.12	0.50
3:D:998:THR:O	3:D:1002:GLU:HG3	2.12	0.50
3:D:1148:ARG:O	3:D:1166:TYR:HA	2.11	0.50
3:D:1214:ARG:HG3	3:D:1215:PRO:N	2.26	0.50
3:D:1386:GLY:C	3:D:1388:SER:H	2.19	0.50
1:A:58:ILE:HG21	1:A:68:ILE:CD1	2.41	0.50
1:A:123:ASN:C	1:A:124:PRO:O	2.53	0.50
1:A:127:HIS:C	1:A:127:HIS:CD2	2.88	0.50
1:B:56:VAL:HG13	1:B:141:VAL:HG23	1.92	0.50
1:B:208:GLU:O	1:B:212:GLN:HB2	2.11	0.50
2:C:17:PRO:O	2:C:18:LEU:HG	2.10	0.50
2:C:139:GLN:HG3	2:C:140:ILE:N	2.24	0.50
2:C:655:LEU:O	2:C:655:LEU:HD23	2.11	0.50
2:C:672:VAL:HG21	2:C:694:LEU:HD21	1.92	0.50
2:C:881:ASN:HB3	3:D:1039:LEU:HG	1.92	0.50
2:C:1095:LEU:O	2:C:1096:ALA:CB	2.57	0.50
3:D:77:GLY:C	3:D:79:GLU:H	2.18	0.50
3:D:92:HIS:HA	3:D:517:VAL:CG1	2.33	0.50
3:D:465:LEU:CD2	3:D:512:MET:HE2	2.41	0.50
3:D:947:ILE:O	3:D:947:ILE:HG13	2.10	0.50
3:D:978:ALA:O	3:D:984:LEU:HD12	2.11	0.50
3:D:1019:ASN:O	3:D:1021:LEU:N	2.43	0.50
2:C:148:PHE:O	2:C:149:THR:CB	2.58	0.50
2:C:327:HIS:C	2:C:329:GLY:N	2.69	0.50
2:C:1071:ILE:O	3:D:659:LYS:CG	2.60	0.50
3:D:545:ARG:C	3:D:547:LEU:N	2.67	0.50
3:D:586:ARG:C	3:D:587:ARG:HD3	2.36	0.50
3:D:639:LEU:HD23	3:D:729:HIS:NE2	2.25	0.50
3:D:836:VAL:CB	3:D:858:LEU:HD21	2.42	0.50
3:D:865:THR:N	3:D:875:THR:O	2.45	0.50
3:D:935:LYS:HG2	3:D:939:PHE:CE1	2.47	0.50
3:D:1012:PHE:CB	3:D:1020:PRO:HG2	2.40	0.50
3:D:1098:LYS:O	3:D:1102:VAL:HG23	2.11	0.50
3:D:1102:VAL:HG21	3:D:1425:VAL:CG2	2.37	0.50
3:D:1104:HIS:O	3:D:1105:GLU:HB3	2.12	0.50
3:D:1270:LYS:O	3:D:1271:ALA:C	2.54	0.50
3:D:1382:VAL:HG12	3:D:1383:THR:N	2.22	0.50
1:A:191:LEU:H	1:A:191:LEU:CD2	2.24	0.50
1:B:40:LEU:HD22	1:B:40:LEU:N	2.26	0.50
1:B:132:GLU:HG2	1:B:133:GLU:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:20:GLU:O	2:C:21:ILE:C	2.53	0.50
2:C:140:ILE:HD11	2:C:331:ARG:NH1	2.26	0.50
2:C:151:ASP:HB2	2:C:156:GLY:O	2.12	0.50
2:C:291:VAL:HB	2:C:299:LYS:CG	2.38	0.50
2:C:291:VAL:HG21	2:C:299:LYS:NZ	2.26	0.50
2:C:325:ILE:C	2:C:327:HIS:N	2.70	0.50
2:C:399:ASN:HD22	2:C:400:PRO:N	2.10	0.50
2:C:544:THR:O	2:C:546:LEU:N	2.44	0.50
2:C:755:LEU:HD11	2:C:825:VAL:HB	1.93	0.50
2:C:897:LEU:HG	2:C:899:GLN:CD	2.36	0.50
2:C:964:LYS:HB2	2:C:964:LYS:NZ	2.26	0.50
3:D:856:GLY:C	3:D:857:LEU:HD22	2.36	0.50
3:D:1460:LEU:CD1	3:D:1471:ARG:NH1	2.75	0.50
1:A:6:LEU:C	1:A:8:ALA:N	2.66	0.50
1:A:77:GLU:OE2	2:C:640:ARG:NH1	2.45	0.50
1:B:133:GLU:O	1:B:135:GLY:N	2.39	0.50
2:C:66:LEU:HD23	2:C:355:VAL:CG2	2.38	0.50
2:C:216:ASP:O	2:C:217:LEU:C	2.54	0.50
2:C:323:ASP:O	2:C:325:ILE:N	2.45	0.50
2:C:356:ARG:O	2:C:359:MET:HB2	2.11	0.50
2:C:603:VAL:HG13	2:C:646:GLY:O	2.12	0.50
2:C:754:ILE:HD13	2:C:791:ARG:HG2	1.92	0.50
2:C:1088:LEU:HD11	3:D:614:PHE:CE2	2.47	0.50
3:D:1043:ARG:HG3	3:D:1043:ARG:O	2.12	0.50
3:D:1077:GLY:O	3:D:1078:ALA:C	2.55	0.50
3:D:1079:ARG:C	3:D:1082:GLY:H	2.18	0.50
3:D:1145:LEU:N	3:D:1145:LEU:HD23	2.26	0.50
3:D:1205:CYS:C	3:D:1207:GLY:N	2.70	0.50
1:A:142:ARG:HE	1:A:158:LYS:CE	2.24	0.50
1:A:142:ARG:CZ	1:A:144:ASP:OD1	2.59	0.50
1:A:194:LEU:CD2	1:A:196:LEU:HD22	2.42	0.50
1:B:193:LYS:O	1:B:194:LEU:O	2.29	0.50
2:C:11:GLU:OE2	2:C:473:ARG:NE	2.44	0.50
2:C:68:PHE:CD2	2:C:98:LEU:HD22	2.47	0.50
2:C:77:PRO:HD2	2:C:92:ALA:HA	1.94	0.50
2:C:86:LYS:NZ	2:C:811:PRO:HG2	2.27	0.50
2:C:110:GLU:HG3	2:C:370:ALA:HB3	1.94	0.50
2:C:225:ALA:O	2:C:228:ALA:N	2.45	0.50
2:C:257:LEU:HB2	2:C:258:PHE:HD1	1.77	0.50
2:C:281:LEU:C	2:C:283:VAL:H	2.20	0.50
2:C:317:VAL:N	2:C:318:PRO:HD2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:520:GLU:O	2:C:521:PRO:C	2.54	0.50
2:C:750:LYS:HB2	2:C:751:PRO:CD	2.36	0.50
2:C:872:ASN:HD21	2:C:874:LEU:N	2.09	0.50
3:D:702:LEU:HD12	3:D:745:MET:SD	2.52	0.50
3:D:757:ALA:HB2	4:E:61:VAL:HG11	1.93	0.50
3:D:836:VAL:HG11	3:D:858:LEU:CD2	2.41	0.50
3:D:863:THR:C	3:D:864:VAL:CG2	2.85	0.50
3:D:910:SER:HA	3:D:913:ASP:OD2	2.11	0.50
3:D:912:LYS:O	3:D:915:VAL:HB	2.12	0.50
3:D:958:PRO:O	3:D:959:GLU:C	2.54	0.50
3:D:1060:SER:OG	3:D:1068:VAL:CG2	2.60	0.50
3:D:1385:PRO:HG3	3:D:1390:LEU:O	2.12	0.50
4:E:26:ARG:NH2	4:E:30:LEU:HD13	2.26	0.50
1:A:72:LYS:HB2	2:C:607:ASP:HB3	1.94	0.50
1:A:121:ILE:O	1:A:122:MET:C	2.55	0.50
1:A:217:LEU:O	1:A:221:LEU:HD23	2.11	0.50
1:A:221:LEU:O	1:A:224:PHE:HD1	1.94	0.50
1:A:221:LEU:HD21	1:B:217:LEU:HD23	1.92	0.50
1:B:94:TRP:CD1	1:B:96:THR:HG23	2.47	0.50
1:B:97:THR:HG22	1:B:98:LEU:N	2.25	0.50
1:B:173:VAL:HG12	1:B:200:THR:HG22	1.94	0.50
2:C:64:LEU:N	2:C:101:ILE:O	2.41	0.50
2:C:208:VAL:O	2:C:209:ARG:HB2	2.10	0.50
2:C:487:THR:O	2:C:489:SER:N	2.45	0.50
2:C:570:PRO:HG3	2:C:635:THR:HG23	1.93	0.50
2:C:831:ARG:NH1	2:C:1002:GLU:HB2	2.22	0.50
3:D:566:ILE:O	3:D:566:ILE:CG2	2.60	0.50
3:D:674:ARG:NH1	3:D:678:GLU:HG3	2.27	0.50
3:D:739:ASP:OD1	3:D:743:ASP:OD2	2.30	0.50
3:D:795:VAL:CA	3:D:862:ASP:CB	2.88	0.50
3:D:985:THR:O	3:D:986:ASP:C	2.54	0.50
3:D:1463:LEU:O	3:D:1464:LYS:C	2.55	0.50
4:E:15:SER:O	4:E:18:ARG:N	2.45	0.50
4:E:26:ARG:NE	4:E:67:GLU:OE2	2.44	0.50
4:E:61:VAL:HA	4:E:64:ALA:HB3	1.94	0.50
1:A:77:GLU:O	1:A:78:ILE:C	2.54	0.50
1:A:89:PHE:HB2	1:A:145:ARG:NH2	2.26	0.50
1:A:102:ALA:HB3	1:A:131:LEU:HD21	1.93	0.50
2:C:563:ASN:O	2:C:565:GLN:N	2.45	0.50
2:C:1095:LEU:HD11	3:D:582:ILE:HG23	1.93	0.50
3:D:897:GLN:OE1	3:D:902:MET:HG2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1080:LYS:C	3:D:1082:GLY:N	2.70	0.50
3:D:1157:LEU:O	3:D:1157:LEU:CD2	2.57	0.50
3:D:1365:HIS:HD1	3:D:1366:ASP:N	2.10	0.50
3:D:1381:GLU:CG	3:D:1392:GLU:HG3	2.41	0.50
4:E:68:LEU:C	4:E:70:THR:N	2.69	0.50
1:B:85:LEU:C	1:B:123:ASN:HD21	2.19	0.49
2:C:399:ASN:CB	2:C:568:ALA:HB3	2.42	0.49
2:C:589:ARG:NH2	2:C:654:LEU:HD12	2.27	0.49
2:C:603:VAL:HG11	2:C:646:GLY:H	1.77	0.49
2:C:707:ARG:HB3	2:C:826:PHE:CD1	2.46	0.49
2:C:949:LYS:C	2:C:951:GLY:H	2.19	0.49
3:D:462:GLN:O	3:D:463:GLU:C	2.54	0.49
3:D:995:GLN:O	3:D:999:GLU:HG3	2.12	0.49
1:A:91:ASP:OD1	1:A:92:PRO:N	2.45	0.49
1:A:166:VAL:CG1	1:A:167:ASP:N	2.72	0.49
1:A:180:VAL:O	1:A:181:GLU:C	2.55	0.49
1:A:194:LEU:O	1:A:195:THR:CB	2.59	0.49
1:B:108:VAL:O	1:B:127:HIS:O	2.30	0.49
1:B:146:GLY:HA3	1:B:170:PHE:CE1	2.47	0.49
2:C:12:VAL:CG1	2:C:13:ILE:N	2.53	0.49
2:C:91:GLN:HA	2:C:119:PRO:HA	1.94	0.49
2:C:321:GLU:O	2:C:322:VAL:C	2.56	0.49
2:C:598:GLU:HG3	2:C:614:ARG:CZ	2.42	0.49
2:C:755:LEU:O	2:C:755:LEU:HD13	2.12	0.49
2:C:1030:GLN:OE1	3:D:628:ARG:CG	2.58	0.49
2:C:1030:GLN:NE2	2:C:1031:ARG:H	2.10	0.49
2:C:1043:TYR:HE2	3:D:763:MET:HA	1.76	0.49
3:D:461:ILE:HA	3:D:464:LEU:HD12	1.94	0.49
3:D:921:ARG:O	3:D:922:LEU:HD23	2.12	0.49
3:D:1196:GLN:O	3:D:1197:THR:HG23	2.12	0.49
4:E:26:ARG:NH2	4:E:67:GLU:OE2	2.45	0.49
4:E:45:ARG:O	4:E:47:LYS:HG3	2.12	0.49
1:A:56:VAL:CG2	1:A:164:ILE:HD11	2.43	0.49
1:A:85:LEU:HD23	1:A:85:LEU:O	2.11	0.49
1:A:221:LEU:HD12	1:B:214:VAL:HG13	1.94	0.49
1:B:25:LEU:CD1	1:B:28:LEU:CD1	2.90	0.49
1:B:73:GLU:OE1	1:B:127:HIS:NE2	2.45	0.49
2:C:115:LEU:HA	2:C:375:SER:OG	2.12	0.49
2:C:243:ARG:HG3	2:C:244:PRO:CA	2.42	0.49
2:C:342:ASP:HA	2:C:345:ARG:HB2	1.93	0.49
2:C:540:PHE:CZ	2:C:906:PHE:HE1	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:699:PHE:O	2:C:701:THR:N	2.45	0.49
2:C:745:ILE:C	2:C:747:ALA:H	2.20	0.49
3:D:492:ALA:O	3:D:495:ARG:HB2	2.12	0.49
3:D:1252:ASP:C	3:D:1254:THR:N	2.70	0.49
3:D:1276:SER:OG	3:D:1295:VAL:HG11	2.11	0.49
3:D:1404:LEU:HD21	3:D:1416:VAL:H	1.77	0.49
1:A:30:ARG:NH1	1:A:191:LEU:HD22	2.28	0.49
1:A:166:VAL:CG1	1:A:167:ASP:H	2.25	0.49
1:A:196:LEU:N	1:A:196:LEU:CD2	2.75	0.49
1:B:14:THR:HB	1:B:22:GLU:H	1.76	0.49
1:B:58:ILE:HG12	1:B:139:MET:HB3	1.95	0.49
1:B:187:GLN:HE22	3:D:646:LYS:NZ	2.11	0.49
2:C:66:LEU:HD11	2:C:98:LEU:CB	2.43	0.49
2:C:207:LEU:HG	2:C:208:VAL:N	2.27	0.49
2:C:253:ALA:HA	2:C:256:TYR:CG	2.46	0.49
2:C:434:HIS:C	2:C:436:GLY:N	2.68	0.49
2:C:504:GLU:O	2:C:506:ASP:N	2.44	0.49
2:C:988:VAL:HG12	3:D:948:ILE:CG1	2.42	0.49
2:C:1051:GLU:HG2	2:C:1056:LYS:HE2	1.93	0.49
3:D:151:GLN:O	3:D:152:LEU:C	2.55	0.49
3:D:669:ASN:OD1	3:D:670:VAL:N	2.45	0.49
3:D:1070:GLU:O	3:D:1073:ILE:N	2.46	0.49
4:E:67:GLU:O	4:E:70:THR:HB	2.12	0.49
1:A:137:LEU:HG	1:A:139:MET:HE2	1.95	0.49
1:B:133:GLU:CD	1:B:134:GLY:H	2.19	0.49
2:C:15:LEU:HD11	2:C:461:VAL:HG11	1.93	0.49
2:C:77:PRO:CD	2:C:93:PRO:HD3	2.32	0.49
2:C:195:LEU:CD1	2:C:227:LEU:HD22	2.35	0.49
2:C:439:CYS:SG	2:C:468:ARG:NH2	2.82	0.49
2:C:443:THR:H	2:C:444:PRO:HD2	1.77	0.49
2:C:610:ARG:O	2:C:611:ILE:C	2.54	0.49
2:C:628:TYR:N	2:C:628:TYR:HD1	2.10	0.49
2:C:1030:GLN:NE2	3:D:628:ARG:HD3	2.28	0.49
3:D:17:LYS:O	3:D:18:ILE:C	2.54	0.49
3:D:700:VAL:HG13	3:D:748:HIS:O	2.12	0.49
3:D:792:ILE:CG2	3:D:793:THR:HG23	2.42	0.49
3:D:1485:THR:O	3:D:1487:VAL:HG23	2.11	0.49
1:B:36:LEU:O	1:B:40:LEU:HD23	2.13	0.49
1:B:58:ILE:HG12	1:B:139:MET:CB	2.43	0.49
2:C:134:ARG:HB3	2:C:134:ARG:NH1	2.28	0.49
2:C:215:GLY:O	2:C:216:ASP:O	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:642:ARG:N	2:C:656:ALA:HA	2.27	0.49
2:C:788:THR:O	2:C:788:THR:OG1	2.28	0.49
3:D:615:ARG:O	3:D:618:LEU:HB2	2.13	0.49
3:D:644:LEU:HD22	3:D:648:MET:HE2	1.95	0.49
3:D:675:ARG:CA	3:D:678:GLU:HB3	2.37	0.49
3:D:1401:VAL:O	3:D:1401:VAL:HG12	2.11	0.49
3:D:1435:TRP:CD1	3:D:1448:LEU:HD12	2.48	0.49
1:A:142:ARG:HG2	1:A:144:ASP:OD1	2.12	0.49
1:A:174:ARG:HB2	1:A:200:THR:HB	1.93	0.49
1:B:111:VAL:C	1:B:113:PHE:N	2.69	0.49
2:C:100:LEU:C	2:C:100:LEU:HD12	2.38	0.49
2:C:291:VAL:HG11	2:C:299:LYS:HE3	1.94	0.49
2:C:673:LEU:HA	2:C:991:GLN:HA	1.95	0.49
2:C:729:LEU:HG	2:C:729:LEU:O	2.13	0.49
2:C:1113:GLU:C	2:C:1115:LEU:N	2.64	0.49
3:D:970:ARG:NH2	3:D:971:LYS:HE3	2.28	0.49
3:D:1458:ASP:O	3:D:1460:LEU:N	2.46	0.49
1:B:63:HIS:HB3	1:B:65:PHE:CE2	2.47	0.49
1:B:121:ILE:HG22	1:B:121:ILE:O	2.12	0.49
1:B:159:ASP:O	1:B:160:ARG:C	2.56	0.49
2:C:25:SER:HA	2:C:28:LYS:HE2	1.95	0.49
2:C:31:GLN:HG2	2:C:39:ARG:HD2	1.95	0.49
2:C:115:LEU:CG	2:C:116:GLY:H	2.25	0.49
2:C:218:VAL:O	2:C:219:GLN:C	2.55	0.49
2:C:526:PRO:O	2:C:527:GLU:C	2.55	0.49
2:C:604:VAL:HG11	2:C:619:ARG:HH22	1.77	0.49
2:C:987:ILE:HD11	3:D:946:GLY:C	2.38	0.49
2:C:1068:GLN:HG3	2:C:1072:LYS:HE3	1.94	0.49
3:D:483:HIS:CB	3:D:493:ARG:HH21	2.25	0.49
3:D:537:THR:O	3:D:537:THR:HG22	2.12	0.49
3:D:694:VAL:O	3:D:695:ILE:C	2.56	0.49
1:A:38:ASN:HD21	1:A:41:ARG:HH22	1.61	0.49
1:A:103:GLU:H	1:A:106:LYS:HE2	1.78	0.49
1:A:160:ARG:O	1:A:161:ILE:HB	2.13	0.49
1:B:30:ARG:NH1	2:C:854:PRO:HB3	2.28	0.49
1:B:81:ASN:HD21	1:B:127:HIS:HB3	1.77	0.49
2:C:79:SER:N	2:C:82:GLU:OE1	2.43	0.49
2:C:159:ILE:CD1	2:C:310:LEU:HD22	2.28	0.49
2:C:253:ALA:HA	2:C:256:TYR:CD1	2.47	0.49
2:C:270:GLY:O	2:C:271:GLU:O	2.31	0.49
2:C:333:ILE:HD12	2:C:468:ARG:HE	1.74	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:728:HIS:O	2:C:730:SER:N	2.45	0.49
2:C:920:GLU:C	2:C:922:PHE:N	2.68	0.49
2:C:1015:LEU:O	2:C:1016:ILE:HD13	2.13	0.49
3:D:476:GLU:O	3:D:480:GLU:HB2	2.13	0.49
3:D:631:ILE:HD13	3:D:745:MET:CE	2.42	0.49
3:D:636:GLN:NE2	3:D:642:CYS:HA	2.28	0.49
3:D:645:PRO:HG3	3:D:724:GLN:C	2.38	0.49
3:D:670:VAL:O	3:D:673:ALA:HB3	2.13	0.49
3:D:1008:VAL:HG21	3:D:1040:CYS:CB	2.42	0.49
3:D:1009:PHE:CE1	3:D:1036:ILE:HG13	2.43	0.49
3:D:1200:GLY:O	3:D:1202:CYS:N	2.36	0.49
3:D:1224:VAL:C	3:D:1226:ALA:H	2.21	0.49
3:D:1271:ALA:HB1	3:D:1327:THR:CB	2.43	0.49
3:D:1424:GLY:O	3:D:1426:THR:N	2.39	0.49
1:A:55:SER:HB2	1:A:156:GLY:HA3	1.94	0.49
1:A:132:GLU:O	2:C:606:VAL:HG23	2.13	0.49
1:B:34:VAL:O	1:B:36:LEU:N	2.42	0.49
2:C:259:GLY:HA2	2:C:289:THR:O	2.13	0.49
2:C:274:ARG:HG3	2:C:275:TYR:H	1.77	0.49
2:C:491:GLU:HA	2:C:531:PHE:CA	2.36	0.49
2:C:525:ALA:O	2:C:526:PRO:C	2.56	0.49
2:C:549:PHE:HD2	2:C:552:HIS:CD2	2.31	0.49
2:C:693:GLU:OE1	2:C:696:LYS:HD2	2.12	0.49
2:C:780:GLU:O	2:C:781:LYS:C	2.55	0.49
2:C:948:GLU:O	2:C:951:GLY:N	2.46	0.49
3:D:603:LEU:HA	3:D:606:ILE:HD13	1.94	0.49
3:D:691:LEU:HA	3:D:694:VAL:CB	2.39	0.49
3:D:997:TRP:CD1	3:D:1057:PRO:HD3	2.48	0.49
3:D:1263:LEU:CD2	3:D:1353:ILE:HA	2.43	0.49
3:D:1305:LYS:H	3:D:1305:LYS:CD	2.23	0.49
3:D:1381:GLU:HG2	3:D:1392:GLU:HA	1.95	0.49
1:A:214:VAL:O	1:A:218:LYS:HG3	2.13	0.48
1:B:70:GLY:O	1:B:71:VAL:HG23	2.13	0.48
1:B:187:GLN:C	1:B:187:GLN:CD	2.81	0.48
2:C:11:GLU:OE1	2:C:479:VAL:HG12	2.13	0.48
2:C:32:ALA:O	2:C:34:VAL:N	2.46	0.48
2:C:563:ASN:O	2:C:564:MET:C	2.55	0.48
2:C:601:GLY:O	2:C:602:GLU:CB	2.60	0.48
2:C:636:ALA:CB	2:C:703:ILE:O	2.61	0.48
2:C:885:ILE:C	2:C:887:GLU:H	2.21	0.48
3:D:680:GLN:O	3:D:681:ARG:HG3	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:952:ILE:HG12	3:D:1063:ARG:NH2	2.27	0.48
3:D:995:GLN:HA	3:D:998:THR:HB	1.95	0.48
3:D:1017:PRO:O	3:D:1024:MET:HE1	2.13	0.48
3:D:1044:GLY:HA2	3:D:1058:VAL:N	2.28	0.48
3:D:1104:HIS:N	3:D:1223:GLY:HA3	2.28	0.48
3:D:1273:ALA:O	3:D:1331:ILE:CB	2.61	0.48
2:C:140:ILE:HG22	2:C:333:ILE:CG1	2.32	0.48
2:C:182:VAL:HG12	2:C:193:LEU:HG	1.95	0.48
2:C:198:ARG:HG3	2:C:228:ALA:HA	1.95	0.48
2:C:234:ALA:O	2:C:235:MET:C	2.55	0.48
2:C:379:GLU:O	2:C:381:ALA:N	2.46	0.48
2:C:397:GLU:N	2:C:633:GLN:NE2	2.53	0.48
2:C:536:PRO:O	2:C:537:LYS:C	2.56	0.48
2:C:1060:ILE:CG2	2:C:1064:ASN:HD21	2.12	0.48
3:D:117:ASP:C	3:D:119:PHE:H	2.19	0.48
3:D:543:LEU:C	3:D:545:ARG:H	2.20	0.48
3:D:722:GLU:HB3	3:D:723:GLY:H	1.44	0.48
3:D:806:PHE:HA	3:D:827:ILE:O	2.12	0.48
3:D:900:ILE:HG22	3:D:901:GLN:N	2.27	0.48
3:D:923:GLY:O	3:D:926:LYS:HB2	2.13	0.48
3:D:1104:HIS:H	3:D:1223:GLY:CA	2.26	0.48
3:D:1104:HIS:CG	3:D:1105:GLU:N	2.81	0.48
3:D:1126:MET:HG2	3:D:1127:ASP:N	2.15	0.48
3:D:1259:ARG:C	3:D:1261:ILE:H	2.19	0.48
4:E:68:LEU:HD12	4:E:73:LEU:HD12	1.95	0.48
2:C:50:GLU:O	2:C:52:PHE:N	2.45	0.48
2:C:461:VAL:O	2:C:461:VAL:HG12	2.13	0.48
2:C:600:ASP:CA	2:C:648:ARG:HD2	2.44	0.48
2:C:679:PHE:O	2:C:681:GLY:N	2.46	0.48
2:C:699:PHE:C	2:C:701:THR:H	2.21	0.48
2:C:774:LEU:O	2:C:777:ILE:HB	2.14	0.48
3:D:88:TYR:O	3:D:520:LEU:HD13	2.13	0.48
3:D:469:ASP:O	3:D:470:LEU:C	2.55	0.48
3:D:564:GLU:O	3:D:568:ARG:HG2	2.13	0.48
3:D:643:GLY:HA3	3:D:727:GLN:N	2.25	0.48
3:D:659:LYS:HD3	3:D:659:LYS:C	2.38	0.48
3:D:1124:PHE:HE2	3:D:1185:ARG:HA	1.77	0.48
3:D:1142:GLU:C	3:D:1144:GLY:H	2.22	0.48
3:D:1348:TYR:CZ	3:D:1352:GLU:HG2	2.48	0.48
2:C:95:TYR:HB3	2:C:114:PHE:HA	1.94	0.48
2:C:479:VAL:O	2:C:480:THR:HG22	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:568:ALA:HB2	2:C:668:LEU:HD22	1.94	0.48
3:D:465:LEU:HD22	3:D:512:MET:HE2	1.95	0.48
3:D:765:SER:HB2	3:D:769:LEU:HD12	1.96	0.48
3:D:831:GLY:C	3:D:833:GLU:H	2.21	0.48
3:D:1357:TYR:HB3	3:D:1362:VAL:HB	1.96	0.48
3:D:1484:PHE:CD1	4:E:75:PHE:HB2	2.49	0.48
4:E:18:ARG:O	4:E:21:VAL:HB	2.13	0.48
1:A:6:LEU:O	1:A:7:LYS:HB2	2.13	0.48
1:A:30:ARG:CZ	1:A:190:ASP:HB3	2.43	0.48
1:B:173:VAL:HG12	1:B:200:THR:HG21	1.94	0.48
2:C:100:LEU:O	2:C:101:ILE:HD13	2.13	0.48
2:C:389:SER:O	2:C:391:LEU:N	2.47	0.48
2:C:580:MET:CB	2:C:584:GLU:HG3	2.25	0.48
3:D:777:PRO:CG	3:D:912:LYS:HG3	2.43	0.48
3:D:810:GLU:C	3:D:812:ALA:H	2.20	0.48
3:D:935:LYS:HG2	3:D:939:PHE:CD1	2.48	0.48
3:D:958:PRO:HD3	3:D:1008:VAL:HG23	1.96	0.48
3:D:1018:PHE:O	3:D:1019:ASN:C	2.55	0.48
3:D:1024:MET:SD	3:D:1024:MET:N	2.86	0.48
3:D:1084:ASP:OD2	3:D:1238:THR:HG23	2.13	0.48
3:D:1104:HIS:H	3:D:1223:GLY:HA3	1.78	0.48
3:D:1222:VAL:O	3:D:1226:ALA:N	2.46	0.48
4:E:23:VAL:HG12	4:E:61:VAL:HG12	1.95	0.48
4:E:54:LEU:O	4:E:55:TYR:CB	2.60	0.48
1:A:175:ARG:HB3	1:A:199:TRP:HB3	1.95	0.48
1:A:217:LEU:HD23	1:B:221:LEU:HD11	1.96	0.48
1:B:64:GLU:HA	1:B:75:VAL:HG11	1.95	0.48
2:C:195:LEU:CB	2:C:227:LEU:HD13	2.28	0.48
2:C:399:ASN:HD21	2:C:401:LEU:N	2.09	0.48
2:C:654:LEU:HD21	2:C:657:ASP:CG	2.38	0.48
3:D:1257:LEU:O	3:D:1259:ARG:N	2.45	0.48
3:D:1262:GLU:CD	3:D:1269:PRO:CB	2.87	0.48
4:E:14:ASP:CG	4:E:15:SER:N	2.67	0.48
1:A:161:ILE:CD1	1:A:162:ASN:HD21	2.25	0.48
1:A:200:THR:C	1:A:201:ASP:CG	2.81	0.48
1:B:33:GLY:HA3	1:B:180:VAL:HG21	1.96	0.48
2:C:86:LYS:O	2:C:88:LEU:HG	2.14	0.48
2:C:139:GLN:NE2	2:C:334:ARG:NH2	2.62	0.48
2:C:145:GLY:O	2:C:146:VAL:HG23	2.12	0.48
2:C:193:LEU:HD13	2:C:193:LEU:C	2.38	0.48
2:C:324:ASP:O	2:C:326:ASP:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:501:THR:HG23	2:C:524:VAL:CB	2.44	0.48
2:C:641:PRO:HA	2:C:656:ALA:CB	2.43	0.48
2:C:710:ILE:CG1	2:C:790:LEU:HD13	2.43	0.48
2:C:963:LEU:O	2:C:965:GLU:N	2.47	0.48
2:C:1112:PHE:C	2:C:1114:GLY:H	2.22	0.48
3:D:656:PHE:CD2	3:D:698:LYS:NZ	2.82	0.48
3:D:1484:PHE:HE1	4:E:22:VAL:CG2	2.27	0.48
4:E:81:PRO:O	4:E:85:LEU:N	2.47	0.48
2:C:38:LYS:O	2:C:39:ARG:O	2.32	0.48
2:C:148:PHE:CD1	2:C:148:PHE:N	2.81	0.48
2:C:290:LEU:HD12	2:C:300:ASP:CA	2.43	0.48
2:C:327:HIS:O	2:C:330:ASN:N	2.47	0.48
2:C:551:GLU:CD	2:C:906:PHE:H	2.22	0.48
2:C:575:GLN:O	2:C:667:ALA:HB1	2.13	0.48
2:C:596:TYR:O	2:C:655:LEU:HD13	2.13	0.48
2:C:840:ALA:HB3	2:C:997:LEU:HD11	1.96	0.48
2:C:970:GLY:HA2	3:D:950:ILE:CG2	2.43	0.48
2:C:1042:ALA:HB2	3:D:1228:GLU:OE1	2.13	0.48
3:D:545:ARG:CG	3:D:546:ARG:N	2.77	0.48
3:D:969:ASP:O	3:D:971:LYS:N	2.47	0.48
3:D:1133:LEU:HD13	3:D:1185:ARG:HH12	1.78	0.48
1:A:161:ILE:CG2	1:A:162:ASN:H	2.24	0.48
1:B:23:PHE:HD1	1:B:210:LEU:HD22	1.77	0.48
2:C:6:PHE:HD1	2:C:902:ILE:O	1.97	0.48
2:C:423:ALA:CA	2:C:427:VAL:HG21	2.44	0.48
2:C:521:PRO:O	2:C:522:VAL:C	2.56	0.48
2:C:736:ASP:O	2:C:737:LEU:HG	2.14	0.48
2:C:750:LYS:HG3	3:D:680:GLN:NE2	2.29	0.48
2:C:768:SER:O	2:C:769:PRO:O	2.32	0.48
2:C:876:VAL:HB	2:C:877:PRO:HD3	1.95	0.48
2:C:1011:GLY:O	2:C:1012:PRO:C	2.56	0.48
3:D:462:GLN:HA	3:D:512:MET:SD	2.54	0.48
3:D:571:LYS:C	3:D:573:MET:H	2.21	0.48
3:D:698:LYS:O	3:D:718:PRO:HD2	2.14	0.48
3:D:936:TYR:O	3:D:940:THR:HG22	2.13	0.48
3:D:979:TYR:CG	3:D:989:ARG:HD2	2.49	0.48
1:A:126:LEU:O	1:A:126:LEU:CG	2.61	0.48
1:A:221:LEU:HD21	1:B:217:LEU:CD2	2.43	0.48
1:B:58:ILE:O	1:B:58:ILE:HG22	2.14	0.48
1:B:71:VAL:HA	1:B:131:LEU:HA	1.95	0.48
1:B:159:ASP:O	1:B:159:ASP:CG	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:218:LYS:O	1:B:219:GLU:C	2.57	0.48
2:C:149:THR:CG2	2:C:150:PRO:HD2	2.44	0.48
2:C:555:ALA:O	2:C:556:ASN:C	2.57	0.48
2:C:588:VAL:HG21	2:C:666:LEU:HA	1.96	0.48
3:D:638:LYS:C	3:D:729:HIS:CD2	2.92	0.48
3:D:1212:MET:CE	4:E:16:LYS:HD2	2.43	0.48
3:D:1328:ARG:O	3:D:1330:ALA:N	2.47	0.48
4:E:91:ARG:HB3	4:E:92:LEU:CD1	2.43	0.48
1:A:142:ARG:HE	1:A:158:LYS:HE2	1.79	0.47
1:A:187:GLN:O	1:A:188:ARG:CB	2.62	0.47
1:A:206:PRO:O	1:A:209:ALA:N	2.46	0.47
1:B:111:VAL:O	1:B:113:PHE:N	2.47	0.47
2:C:57:GLY:H	2:C:356:ARG:HH12	1.60	0.47
2:C:394:PHE:CD2	2:C:632:ASN:HB3	2.48	0.47
2:C:605:LYS:HD3	2:C:607:ASP:HA	1.95	0.47
2:C:693:GLU:OE1	2:C:693:GLU:HA	2.14	0.47
2:C:754:ILE:HD13	2:C:791:ARG:NE	2.29	0.47
2:C:915:LYS:O	2:C:918:LEU:N	2.47	0.47
2:C:1072:LYS:O	3:D:659:LYS:HG3	2.14	0.47
2:C:1095:LEU:CD1	3:D:603:LEU:HD23	2.45	0.47
3:D:485:SER:OG	3:D:488:ARG:HD2	2.13	0.47
3:D:997:TRP:CE3	3:D:1000:THR:HG21	2.48	0.47
3:D:1019:ASN:HB2	3:D:1020:PRO:HD3	1.96	0.47
3:D:1060:SER:CB	3:D:1066:LEU:HA	2.43	0.47
3:D:1062:PHE:CD1	3:D:1066:LEU:HD23	2.49	0.47
3:D:1167:LEU:HB2	3:D:1171:ASP:HB3	1.95	0.47
3:D:1329:GLY:O	3:D:1331:ILE:N	2.47	0.47
2:C:172:ILE:HD13	2:C:303:PHE:CZ	2.49	0.47
2:C:735:ARG:C	2:C:737:LEU:N	2.62	0.47
3:D:480:GLU:O	3:D:493:ARG:NH2	2.46	0.47
3:D:1033:PRO:O	3:D:1034:GLN:C	2.57	0.47
3:D:1060:SER:HG	3:D:1068:VAL:HG23	1.79	0.47
3:D:1230:ILE:HG22	3:D:1357:TYR:OH	2.13	0.47
3:D:1479:SER:O	3:D:1482:VAL:N	2.42	0.47
1:B:181:GLU:O	1:B:193:LYS:HB3	2.14	0.47
2:C:55:GLU:OE1	2:C:55:GLU:N	2.43	0.47
2:C:222:LEU:O	2:C:223:ASP:C	2.56	0.47
2:C:238:LEU:O	2:C:241:LEU:N	2.47	0.47
2:C:412:ALA:C	2:C:414:GLY:H	2.21	0.47
2:C:688:ILE:HG23	2:C:871:LEU:HD12	1.96	0.47
2:C:728:HIS:NE2	2:C:783:ARG:NH1	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:805:ARG:NH2	2:C:821:GLU:OE2	2.48	0.47
2:C:1042:ALA:HB1	3:D:1225:VAL:HG22	1.94	0.47
3:D:653:PHE:O	3:D:656:PHE:N	2.48	0.47
3:D:760:ARG:O	3:D:761:ILE:HG13	2.15	0.47
3:D:901:GLN:O	3:D:905:PRO:HD3	2.14	0.47
3:D:925:GLU:OE1	4:E:7:ASP:OD2	2.32	0.47
3:D:1485:THR:HG21	4:E:79:LEU:HB2	1.96	0.47
1:B:14:THR:O	1:B:15:THR:O	2.32	0.47
2:C:177:GLU:CG	2:C:181:VAL:H	2.23	0.47
2:C:378:LEU:O	2:C:382:LEU:HB3	2.14	0.47
2:C:489:SER:O	2:C:490:GLU:CB	2.61	0.47
2:C:549:PHE:O	2:C:550:LEU:C	2.58	0.47
2:C:685:GLU:OE1	2:C:685:GLU:HA	2.13	0.47
2:C:731:GLU:C	2:C:733:ALA:N	2.72	0.47
2:C:882:LEU:CD1	2:C:884:GLN:HE21	2.27	0.47
2:C:1005:MET:HB2	3:D:629:SER:CB	2.44	0.47
2:C:1018:GLN:OE1	2:C:1018:GLN:HA	2.13	0.47
3:D:88:TYR:O	3:D:89:ARG:CB	2.61	0.47
3:D:704:ARG:HH11	3:D:704:ARG:CG	2.27	0.47
3:D:1043:ARG:NH2	3:D:1062:PHE:CZ	2.82	0.47
3:D:1327:THR:C	3:D:1329:GLY:N	2.71	0.47
1:A:11:PHE:CD1	1:A:25:LEU:HD23	2.49	0.47
1:A:102:ALA:HA	1:A:106:LYS:HZ1	1.79	0.47
1:A:127:HIS:CE1	1:A:130:THR:OG1	2.68	0.47
1:B:62:LEU:HB2	1:B:63:HIS:H	1.51	0.47
1:B:180:VAL:O	1:B:180:VAL:HG13	2.13	0.47
1:B:187:GLN:HG2	3:D:688:TRP:HD1	1.80	0.47
2:C:165:LEU:HD22	2:C:334:ARG:CD	2.42	0.47
2:C:369:PRO:O	2:C:370:ALA:HB3	2.15	0.47
2:C:414:GLY:C	2:C:419:THR:HG21	2.39	0.47
2:C:420:ARG:HD3	2:C:420:ARG:N	2.25	0.47
2:C:589:ARG:NH2	2:C:654:LEU:HA	2.29	0.47
2:C:713:ARG:HB2	2:C:720:GLU:OE1	2.14	0.47
2:C:768:SER:CB	2:C:769:PRO:HD2	2.34	0.47
2:C:876:VAL:HA	2:C:880:MET:SD	2.54	0.47
2:C:912:PRO:O	2:C:916:GLU:N	2.41	0.47
2:C:920:GLU:C	2:C:922:PHE:H	2.22	0.47
2:C:1043:TYR:CE1	3:D:710:ARG:HB2	2.50	0.47
3:D:10:ILE:HG23	3:D:11:ALA:N	2.28	0.47
3:D:121:THR:CB	3:D:461:ILE:HD11	2.45	0.47
3:D:490:ALA:O	3:D:491:LYS:C	2.58	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:551:ASN:HD22	3:D:574:LEU:HD13	1.79	0.47
3:D:901:GLN:O	3:D:903:ASP:N	2.48	0.47
3:D:936:TYR:O	3:D:937:TYR:C	2.57	0.47
3:D:988:GLU:O	3:D:992:GLN:HB2	2.14	0.47
3:D:1484:PHE:CE1	4:E:75:PHE:HB2	2.50	0.47
4:E:86:GLN:O	4:E:89:MET:HB2	2.13	0.47
1:B:78:ILE:HG13	1:B:128:ILE:O	2.15	0.47
1:B:117:ALA:C	1:B:119:VAL:N	2.73	0.47
1:B:187:GLN:CG	3:D:688:TRP:HD1	2.27	0.47
1:B:206:PRO:O	1:B:209:ALA:HB3	2.15	0.47
2:C:25:SER:O	2:C:26:TYR:C	2.57	0.47
2:C:325:ILE:O	2:C:326:ASP:C	2.57	0.47
2:C:437:ARG:O	2:C:437:ARG:HG3	2.15	0.47
2:C:520:GLU:N	2:C:521:PRO:CD	2.77	0.47
2:C:549:PHE:CE1	2:C:886:LEU:O	2.68	0.47
2:C:583:LEU:O	2:C:584:GLU:C	2.57	0.47
2:C:642:ARG:HB3	2:C:656:ALA:HA	1.96	0.47
2:C:650:LYS:O	2:C:651:LYS:CB	2.62	0.47
2:C:713:ARG:CZ	2:C:819:VAL:HG22	2.45	0.47
2:C:762:LYS:HD2	2:C:786:LYS:CD	2.36	0.47
2:C:926:PHE:HE1	2:C:929:ARG:NH1	2.13	0.47
3:D:92:HIS:O	3:D:93:ILE:C	2.58	0.47
3:D:580:ALA:O	3:D:584:ASN:HB2	2.15	0.47
3:D:683:ILE:HG22	3:D:687:VAL:HB	1.96	0.47
3:D:836:VAL:HG21	3:D:858:LEU:HD21	1.95	0.47
3:D:962:GLN:O	3:D:965:LEU:O	2.33	0.47
3:D:1060:SER:C	3:D:1062:PHE:H	2.23	0.47
3:D:1200:GLY:C	3:D:1202:CYS:N	2.72	0.47
1:A:18:ASP:HA	1:A:205:THR:OG1	2.15	0.47
1:B:78:ILE:O	1:B:82:LEU:N	2.48	0.47
2:C:148:PHE:CD2	2:C:159:ILE:HG23	2.49	0.47
2:C:181:VAL:HG21	2:C:220:GLY:HA3	1.96	0.47
2:C:232:GLU:O	2:C:233:GLU:C	2.58	0.47
2:C:257:LEU:HD22	2:C:264:PRO:CD	2.38	0.47
2:C:332:ARG:HG2	2:C:333:ILE:H	1.79	0.47
2:C:387:SER:O	2:C:388:ARG:HG3	2.14	0.47
2:C:572:ILE:O	2:C:572:ILE:HG13	2.14	0.47
2:C:581:THR:O	2:C:583:LEU:N	2.48	0.47
2:C:605:LYS:HD2	2:C:607:ASP:OD2	2.14	0.47
2:C:605:LYS:CE	2:C:611:ILE:HG13	2.45	0.47
2:C:683:ASN:ND2	2:C:870:ILE:O	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:754:ILE:CD1	2:C:791:ARG:NE	2.78	0.47
2:C:845:ASN:ND2	2:C:876:VAL:HG11	2.30	0.47
2:C:852:ILE:N	2:C:852:ILE:CD1	2.78	0.47
2:C:920:GLU:O	2:C:921:ALA:C	2.58	0.47
2:C:969:LEU:HD12	3:D:950:ILE:CG2	2.45	0.47
2:C:1038:TRP:NE1	3:D:1100:VAL:HG11	2.29	0.47
2:C:1046:ALA:CB	3:D:1473:ILE:HB	2.44	0.47
3:D:24(U):UNK:O	3:D:41(U):UNK:HA	2.15	0.47
3:D:472:LYS:C	3:D:474:GLU:N	2.73	0.47
3:D:630:VAL:O	3:D:725:SER:CA	2.59	0.47
3:D:657:LEU:HD11	3:D:690:ALA:HB1	1.96	0.47
3:D:810:GLU:O	3:D:812:ALA:N	2.48	0.47
3:D:855:HIS:O	3:D:856:GLY:C	2.55	0.47
3:D:864:VAL:HA	3:D:875:THR:C	2.40	0.47
3:D:896:ALA:O	3:D:897:GLN:C	2.57	0.47
3:D:899:LEU:C	3:D:900:ILE:CG1	2.88	0.47
3:D:947:ILE:O	3:D:947:ILE:CG1	2.63	0.47
3:D:1070:GLU:C	3:D:1072:PHE:H	2.23	0.47
3:D:1156:ALA:O	3:D:1158:GLY:N	2.48	0.47
3:D:1214:ARG:HG3	3:D:1215:PRO:HD2	1.96	0.47
3:D:1379:TYR:O	3:D:1421:LEU:HB3	2.15	0.47
3:D:1460:LEU:HD13	3:D:1471:ARG:HD3	1.97	0.47
1:A:142:ARG:HG2	1:A:142:ARG:NH1	2.30	0.47
1:A:159:ASP:O	1:A:161:ILE:N	2.47	0.47
2:C:181:VAL:O	2:C:182:VAL:C	2.58	0.47
2:C:445:GLU:HB3	2:C:446:GLY:H	1.49	0.47
2:C:602:GLU:O	2:C:603:VAL:HG13	2.14	0.47
2:C:689:VAL:HB	2:C:870:ILE:HB	1.97	0.47
2:C:694:LEU:HD22	2:C:699:PHE:CD2	2.50	0.47
2:C:773:LEU:O	2:C:777:ILE:HG13	2.15	0.47
2:C:857:ASP:HB3	2:C:978:ARG:HG3	1.97	0.47
2:C:892:LEU:O	2:C:894:GLY:N	2.42	0.47
2:C:923:ASN:O	2:C:927:GLY:HA3	2.15	0.47
3:D:811:GLU:CA	3:D:814:ALA:HB3	2.36	0.47
3:D:836:VAL:HG11	3:D:858:LEU:HD11	1.95	0.47
3:D:911:LEU:HD22	3:D:911:LEU:N	2.30	0.47
3:D:1084:ASP:C	3:D:1086:ALA:N	2.73	0.47
3:D:1214:ARG:HG3	3:D:1215:PRO:CD	2.45	0.47
3:D:1237:LEU:HD11	3:D:1357:TYR:CD2	2.48	0.47
3:D:1340:LYS:O	3:D:1340:LYS:CG	2.63	0.47
3:D:1484:PHE:CZ	4:E:22:VAL:HG23	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:9:LEU:C	4:E:11:GLY:H	2.22	0.47
1:A:38:ASN:CG	1:A:41:ARG:HH12	2.23	0.47
1:A:100:LEU:HD11	1:A:137:LEU:HD23	1.97	0.47
1:A:103:GLU:C	1:A:135:GLY:HA3	2.40	0.47
1:B:23:PHE:CD1	1:B:210:LEU:HD22	2.50	0.47
1:B:154:ARG:O	1:B:155:HIS:CB	2.62	0.47
1:B:159:ASP:OD2	1:B:161:ILE:O	2.33	0.47
2:C:14:PRO:HA	2:C:458:TYR:CE1	2.50	0.47
2:C:397:GLU:HB2	2:C:633:GLN:NE2	2.26	0.47
2:C:642:ARG:CB	2:C:656:ALA:HA	2.45	0.47
2:C:735:ARG:CA	2:C:737:LEU:O	2.58	0.47
2:C:953:VAL:HG11	2:C:962:GLN:HB3	1.96	0.47
3:D:1067:THR:O	3:D:1068:VAL:C	2.57	0.47
3:D:1155:GLU:O	3:D:1156:ALA:HB2	2.15	0.47
3:D:1348:TYR:O	3:D:1352:GLU:CB	2.62	0.47
3:D:1480:ASP:C	3:D:1482:VAL:H	2.23	0.47
1:A:34:VAL:O	1:A:35:THR:C	2.57	0.47
1:B:89:PHE:HZ	1:B:145:ARG:HE	1.55	0.47
1:B:184:ARG:C	1:B:186:GLY:N	2.70	0.47
2:C:71:TYR:HA	2:C:96:ALA:HB2	1.97	0.47
2:C:208:VAL:CG1	2:C:218:VAL:HG21	2.45	0.47
2:C:261:LEU:HD11	2:C:263:ASP:HB2	1.96	0.47
2:C:428:ARG:NH2	3:D:1086:ALA:O	2.48	0.47
2:C:432:ARG:NH1	3:D:1049:PRO:O	2.48	0.47
2:C:493:ARG:NH2	3:D:1070:GLU:CD	2.73	0.47
2:C:727:PRO:HD2	2:C:759:THR:HG22	1.96	0.47
2:C:796:GLU:CG	3:D:681:ARG:HH12	2.13	0.47
2:C:943:VAL:O	2:C:944:LEU:C	2.56	0.47
3:D:87:ARG:CB	3:D:522:PRO:HG2	2.45	0.47
3:D:495:ARG:O	3:D:496:LEU:C	2.56	0.47
3:D:538:SER:O	3:D:539:ASP:C	2.57	0.47
3:D:552:ASN:O	3:D:554:LEU:N	2.47	0.47
3:D:685:ASP:C	3:D:687:VAL:N	2.72	0.47
3:D:760:ARG:NH2	4:E:3:GLU:OE2	2.48	0.47
3:D:916:TYR:O	3:D:919:PHE:HB3	2.15	0.47
3:D:997:TRP:HA	3:D:1000:THR:CG2	2.42	0.47
3:D:1012:PHE:CE2	3:D:1023:VAL:HG11	2.50	0.47
3:D:1095:LEU:O	3:D:1096:THR:C	2.57	0.47
3:D:1276:SER:H	3:D:1323:GLY:CA	2.18	0.47
3:D:1306:LEU:HD21	3:D:1311:ARG:CB	2.45	0.47
1:A:79:ILE:HD11	1:A:164:ILE:HG13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:22:GLU:HA	1:B:196:LEU:O	2.15	0.46
1:B:164:ILE:HG13	1:B:164:ILE:O	2.16	0.46
2:C:6:PHE:N	2:C:6:PHE:CD1	2.82	0.46
2:C:22:GLN:O	2:C:24:GLU:N	2.48	0.46
2:C:253:ALA:C	2:C:256:TYR:H	2.23	0.46
2:C:253:ALA:C	2:C:255:ALA:N	2.73	0.46
2:C:257:LEU:C	2:C:259:GLY:N	2.69	0.46
2:C:269:LEU:O	2:C:274:ARG:NH2	2.49	0.46
2:C:359:MET:SD	2:C:372:LEU:HD11	2.55	0.46
2:C:378:LEU:O	2:C:382:LEU:CB	2.63	0.46
2:C:565:GLN:HB2	2:C:995:MET:SD	2.56	0.46
2:C:582:GLY:O	2:C:585:GLU:HG3	2.15	0.46
2:C:601:GLY:HA3	2:C:648:ARG:N	2.30	0.46
2:C:616:GLU:O	2:C:618:GLY:N	2.47	0.46
2:C:692:GLU:O	2:C:693:GLU:C	2.59	0.46
2:C:861:LEU:CD2	2:C:862:PRO:HD2	2.45	0.46
2:C:1034:GLU:OE2	3:D:1097:ARG:NH1	2.46	0.46
3:D:465:LEU:CD2	3:D:509:PRO:HB3	2.41	0.46
3:D:543:LEU:HD21	3:D:600:LEU:HD12	1.98	0.46
3:D:636:GLN:C	3:D:638:LYS:H	2.24	0.46
3:D:662:GLU:OE1	3:D:662:GLU:C	2.58	0.46
3:D:772:PRO:HG3	3:D:778:LEU:HD22	1.97	0.46
3:D:795:VAL:N	3:D:862:ASP:CB	2.78	0.46
3:D:810:GLU:O	3:D:810:GLU:HG2	2.14	0.46
3:D:930:LEU:CD1	3:D:934:LEU:HG	2.45	0.46
3:D:1282:VAL:HG13	3:D:1315:LYS:CA	2.36	0.46
1:A:79:ILE:HD11	1:A:164:ILE:HD11	1.95	0.46
1:A:89:PHE:HB2	1:A:145:ARG:HH21	1.79	0.46
2:C:472:ARG:O	2:C:479:VAL:O	2.33	0.46
2:C:472:ARG:O	2:C:480:THR:HG22	2.14	0.46
2:C:514:VAL:C	2:C:516:ARG:N	2.72	0.46
2:C:881:ASN:ND2	3:D:1035:GLN:CG	2.78	0.46
2:C:1085:PHE:CE1	3:D:1469:LEU:HD22	2.49	0.46
2:C:1112:PHE:C	2:C:1114:GLY:N	2.71	0.46
3:D:546:ARG:HH21	3:D:577:ALA:HA	1.79	0.46
3:D:941:LEU:C	3:D:943:THR:N	2.73	0.46
4:E:91:ARG:C	4:E:92:LEU:HD12	2.41	0.46
1:A:25:LEU:HB3	1:A:26:GLU:H	1.59	0.46
1:A:142:ARG:O	1:A:143:VAL:HG22	2.15	0.46
2:C:63:GLY:O	2:C:64:LEU:HB2	2.16	0.46
2:C:356:ARG:O	2:C:356:ARG:HD2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:437:ARG:C	2:C:438:ILE:HG12	2.40	0.46
2:C:581:THR:O	2:C:582:GLY:C	2.58	0.46
2:C:742:ILE:HG12	2:C:756:VAL:HG13	1.97	0.46
2:C:758:ARG:O	2:C:787:ASP:O	2.33	0.46
3:D:477:LEU:CA	3:D:480:GLU:HB3	2.34	0.46
3:D:522:PRO:O	3:D:523:ASP:CB	2.63	0.46
3:D:645:PRO:HG3	3:D:724:GLN:O	2.14	0.46
3:D:718:PRO:O	3:D:719:VAL:HG23	2.15	0.46
1:A:31:GLY:C	1:A:33:GLY:H	2.23	0.46
1:A:137:LEU:CG	1:A:139:MET:HE2	2.46	0.46
1:B:62:LEU:O	1:B:63:HIS:O	2.34	0.46
1:B:110:ALA:CA	1:B:113:PHE:HE1	2.26	0.46
2:C:96:ALA:O	2:C:98:LEU:HG	2.16	0.46
2:C:224:GLU:C	2:C:226:VAL:H	2.23	0.46
2:C:420:ARG:H	2:C:420:ARG:CD	2.20	0.46
2:C:455:LEU:HD12	2:C:455:LEU:O	2.16	0.46
2:C:491:GLU:O	2:C:491:GLU:HG3	2.15	0.46
2:C:580:MET:HE1	2:C:665:PHE:CD1	2.50	0.46
2:C:662:GLU:O	2:C:663:GLU:C	2.57	0.46
2:C:705:ILE:HD12	2:C:705:ILE:C	2.40	0.46
2:C:787:ASP:C	2:C:787:ASP:OD1	2.58	0.46
2:C:814:GLU:HG3	2:C:814:GLU:O	2.15	0.46
2:C:1051:GLU:OE2	3:D:752:SER:OG	2.30	0.46
3:D:452:ILE:O	3:D:453:ASP:C	2.57	0.46
3:D:492:ALA:O	3:D:493:ARG:C	2.59	0.46
3:D:673:ALA:O	3:D:676:MET:N	2.48	0.46
3:D:701:LEU:HD21	3:D:763:MET:HE1	1.97	0.46
3:D:724:GLN:O	3:D:725:SER:O	2.32	0.46
3:D:1063:ARG:HD3	3:D:1064:GLU:N	2.30	0.46
3:D:1364:LEU:HG	3:D:1365:HIS:N	2.31	0.46
3:D:1463:LEU:C	3:D:1465:GLU:N	2.73	0.46
4:E:87:LYS:O	4:E:90:GLU:HB3	2.15	0.46
1:B:172:PRO:CB	1:B:204:VAL:HB	2.45	0.46
2:C:54:ILE:HG12	2:C:355:VAL:CG1	2.45	0.46
2:C:128:ILE:N	2:C:128:ILE:CD1	2.79	0.46
2:C:148:PHE:CE2	2:C:310:LEU:HA	2.50	0.46
2:C:184:MET:HE2	2:C:196:LEU:CD2	2.41	0.46
2:C:262:ALA:HB1	2:C:266:ARG:CD	2.17	0.46
2:C:305:PRO:HB3	2:C:308:ARG:NH2	2.30	0.46
2:C:881:ASN:ND2	3:D:1035:GLN:OE1	2.49	0.46
2:C:1034:GLU:OE1	3:D:1097:ARG:NH1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:21:TRP:O	3:D:23:TYR:N	2.48	0.46
3:D:566:ILE:O	3:D:570:GLU:HG3	2.16	0.46
3:D:590:PRO:HA	3:D:600:LEU:HD21	1.98	0.46
3:D:911:LEU:CD2	3:D:911:LEU:H	2.28	0.46
3:D:950:ILE:HB	3:D:953:ASP:HB3	1.98	0.46
3:D:1108:VAL:HG23	3:D:1222:VAL:HG23	1.97	0.46
3:D:1232:GLU:C	3:D:1234:GLY:N	2.73	0.46
1:A:205:THR:O	1:A:208:GLU:HB2	2.15	0.46
1:B:213:ALA:O	1:B:216:ILE:N	2.49	0.46
2:C:52:PHE:O	2:C:53:PRO:C	2.56	0.46
2:C:100:LEU:HD21	2:C:368:THR:CA	2.39	0.46
2:C:291:VAL:CG1	2:C:299:LYS:HE3	2.46	0.46
2:C:419:THR:O	2:C:420:ARG:C	2.58	0.46
2:C:440:PRO:HD2	2:C:456:ALA:N	2.31	0.46
2:C:726:ILE:HB	2:C:729:LEU:HD23	1.96	0.46
2:C:794:PRO:HG2	2:C:1027:PHE:HB3	1.98	0.46
2:C:1080:SER:OG	2:C:1081:VAL:N	2.48	0.46
3:D:485:SER:OG	3:D:488:ARG:HB2	2.16	0.46
3:D:733:CYS:O	3:D:737:ASN:N	2.45	0.46
3:D:973:ARG:HA	3:D:976:GLU:HB2	1.97	0.46
3:D:1016:TYR:CB	3:D:1019:ASN:HB2	2.39	0.46
3:D:1084:ASP:O	3:D:1087:LEU:N	2.48	0.46
3:D:1155:GLU:CB	3:D:1160:ARG:HA	2.42	0.46
3:D:1479:SER:O	3:D:1480:ASP:C	2.59	0.46
4:E:68:LEU:CD1	4:E:73:LEU:HD12	2.46	0.46
1:A:18:ASP:O	1:A:19:HIS:CD2	2.69	0.46
1:B:58:ILE:O	1:B:59:GLU:O	2.34	0.46
1:B:225:ALA:O	1:B:227:PRO:HD3	2.15	0.46
2:C:44:ILE:HD12	2:C:44:ILE:N	2.29	0.46
2:C:439:CYS:O	2:C:440:PRO:O	2.34	0.46
2:C:613:VAL:HG12	2:C:615:TYR:CA	2.46	0.46
2:C:944:LEU:HD21	2:C:963:LEU:CD2	2.46	0.46
2:C:996:LYS:NZ	2:C:1000:MET:HE3	2.31	0.46
3:D:549:ASN:N	3:D:549:ASN:HD22	2.13	0.46
3:D:693:GLU:O	3:D:696:HIS:HB3	2.15	0.46
3:D:756:GLN:O	3:D:760:ARG:HG2	2.16	0.46
3:D:925:GLU:HG2	3:D:926:LYS:H	1.81	0.46
3:D:958:PRO:HG3	3:D:1008:VAL:CA	2.46	0.46
3:D:1131:ARG:H	3:D:1131:ARG:HD2	1.81	0.46
3:D:1144:GLY:C	3:D:1145:LEU:HD23	2.41	0.46
1:A:208:GLU:O	1:A:212:GLN:HG3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:440:PRO:HG2	2:C:454:SER:O	2.16	0.46
2:C:613:VAL:O	2:C:614:ARG:C	2.58	0.46
2:C:706:GLU:CD	2:C:707:ARG:N	2.71	0.46
2:C:766:GLU:O	2:C:768:SER:N	2.47	0.46
2:C:770:GLU:O	2:C:774:LEU:N	2.35	0.46
2:C:810:ASP:HB3	2:C:813:VAL:CG2	2.46	0.46
2:C:950:LEU:O	3:D:1019:ASN:OD1	2.34	0.46
3:D:18:ILE:HA	3:D:21:TRP:CE3	2.51	0.46
3:D:98:PRO:O	3:D:99:ALA:HB2	2.16	0.46
3:D:538:SER:CA	3:D:541:ASN:HD22	2.25	0.46
3:D:734:GLU:O	3:D:735:ALA:C	2.57	0.46
3:D:878:GLY:O	3:D:880:ILE:N	2.48	0.46
3:D:1073:ILE:N	3:D:1073:ILE:HD12	2.31	0.46
3:D:1232:GLU:CB	3:D:1233:PRO:HD3	2.33	0.46
3:D:1386:GLY:C	3:D:1388:SER:N	2.74	0.46
4:E:4:PRO:CB	4:E:66:LYS:HE2	2.41	0.46
1:B:60:ASP:O	1:B:61:VAL:O	2.33	0.46
2:C:17:PRO:O	2:C:18:LEU:CB	2.63	0.46
2:C:31:GLN:NE2	2:C:39:ARG:CB	2.77	0.46
2:C:42:VAL:HG12	2:C:43:GLY:N	2.30	0.46
2:C:165:LEU:C	2:C:167:LYS:N	2.73	0.46
2:C:439:CYS:SG	2:C:453:THR:HG21	2.55	0.46
2:C:682:TYR:CB	2:C:689:VAL:HG22	2.45	0.46
2:C:837:ASP:H	2:C:1001:VAL:CG2	2.29	0.46
2:C:839:LEU:CD2	2:C:849:VAL:HG23	2.46	0.46
2:C:876:VAL:O	2:C:880:MET:SD	2.74	0.46
2:C:940:GLU:O	2:C:944:LEU:HG	2.16	0.46
2:C:1040:LEU:HD22	2:C:1040:LEU:N	2.31	0.46
2:C:1043:TYR:CD1	3:D:710:ARG:HB2	2.51	0.46
3:D:477:LEU:HD12	3:D:477:LEU:O	2.16	0.46
3:D:547:LEU:HA	3:D:577:ALA:HB1	1.98	0.46
3:D:612:GLY:O	3:D:614:PHE:N	2.49	0.46
3:D:709:HIS:HD2	3:D:711:LEU:HB2	1.81	0.46
3:D:930:LEU:HD12	3:D:934:LEU:HG	1.97	0.46
3:D:1025:ALA:O	3:D:1028:GLY:N	2.43	0.46
3:D:1070:GLU:HG3	3:D:1073:ILE:HD13	1.98	0.46
3:D:1467:VAL:O	3:D:1468:ILE:C	2.59	0.46
1:A:19:HIS:O	1:A:20:TYR:O	2.34	0.46
1:B:154:ARG:HD3	1:B:154:ARG:HA	1.71	0.46
1:B:170:PHE:C	1:B:171:SER:OG	2.59	0.46
2:C:145:GLY:O	2:C:162:ILE:N	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:399:ASN:HD21	2:C:401:LEU:CB	2.26	0.46
2:C:479:VAL:O	2:C:480:THR:O	2.33	0.46
2:C:714:ASP:O	2:C:715:THR:O	2.34	0.46
2:C:735:ARG:C	2:C:737:LEU:H	2.13	0.46
2:C:773:LEU:O	2:C:774:LEU:C	2.59	0.46
2:C:939:ARG:CZ	2:C:975:TYR:CE2	2.99	0.46
2:C:974:LEU:HD22	2:C:989:VAL:CG2	2.45	0.46
3:D:502:PHE:CD1	3:D:507:ASN:ND2	2.84	0.46
3:D:1068:VAL:C	3:D:1070:GLU:H	2.22	0.46
3:D:1173:HIS:O	3:D:1176:ILE:HB	2.16	0.46
3:D:1460:LEU:HD13	3:D:1471:ARG:CD	2.46	0.46
3:D:1474:PRO:O	3:D:1479:SER:N	2.49	0.46
4:E:49:ARG:O	4:E:50:THR:OG1	2.28	0.46
1:A:79:ILE:HG23	1:A:166:VAL:CG2	2.46	0.45
1:A:103:GLU:O	1:A:104:GLY:O	2.34	0.45
1:A:179:GLN:NE2	2:C:934:PHE:HB3	2.19	0.45
1:B:24:VAL:CG2	1:B:195:THR:HG23	2.45	0.45
2:C:30:LEU:O	2:C:30:LEU:HG	2.16	0.45
2:C:92:ALA:HB2	2:C:120:LEU:HD11	1.97	0.45
2:C:148:PHE:HE1	2:C:309:TYR:CD2	2.33	0.45
2:C:408:ARG:HH22	2:C:457:ALA:HA	1.81	0.45
2:C:648:ARG:HH11	2:C:648:ARG:CG	2.28	0.45
2:C:744:ARG:O	2:C:747:ALA:HB2	2.16	0.45
2:C:796:GLU:CG	3:D:681:ARG:NH1	2.73	0.45
2:C:857:ASP:O	2:C:858:MET:HB2	2.15	0.45
2:C:1067:TYR:CZ	2:C:1071:ILE:HD11	2.51	0.45
2:C:1101:THR:HB	2:C:1110:ASP:CB	2.47	0.45
3:D:8:VAL:O	3:D:1435:TRP:CH2	2.69	0.45
3:D:496:LEU:HD11	3:D:500:ARG:NE	2.30	0.45
3:D:612:GLY:O	3:D:615:ARG:N	2.43	0.45
3:D:792:ILE:HG22	3:D:793:THR:HG23	1.98	0.45
3:D:965:LEU:O	3:D:966:GLU:HB3	2.17	0.45
3:D:1206:TYR:CD2	3:D:1216:VAL:HG21	2.50	0.45
3:D:1222:VAL:O	3:D:1223:GLY:C	2.59	0.45
3:D:1342:PRO:HD2	3:D:1343:GLU:OE1	2.16	0.45
1:A:32:PHE:N	1:A:32:PHE:CD1	2.84	0.45
1:A:151:PRO:O	1:A:153:GLU:N	2.49	0.45
2:C:157:ARG:H	2:C:157:ARG:CD	2.21	0.45
2:C:203:ASP:H	2:C:207:LEU:HB2	1.81	0.45
2:C:252:LYS:HZ1	2:C:293:PHE:H	1.65	0.45
2:C:380:ALA:O	2:C:384:GLU:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:460:ARG:O	2:C:461:VAL:CB	2.64	0.45
2:C:460:ARG:CG	2:C:461:VAL:N	2.78	0.45
2:C:653:ASP:OD1	2:C:653:ASP:O	2.34	0.45
2:C:924:LEU:O	2:C:925:TYR:C	2.59	0.45
3:D:470:LEU:O	3:D:472:LYS:N	2.49	0.45
3:D:650:LEU:HD21	3:D:683:ILE:HD11	1.98	0.45
3:D:732:VAL:O	3:D:733:CYS:C	2.59	0.45
3:D:734:GLU:OE2	3:D:780:LYS:NZ	2.50	0.45
3:D:865:THR:O	3:D:866:THR:C	2.58	0.45
3:D:1275:ILE:HD12	3:D:1275:ILE:O	2.16	0.45
3:D:1377:LEU:HD11	3:D:1422:LEU:HG	1.98	0.45
4:E:6:ILE:CG2	4:E:7:ASP:N	2.79	0.45
1:B:90:LEU:HG	1:B:118:ASP:O	2.17	0.45
2:C:144:PRO:HA	2:C:162:ILE:CG2	2.45	0.45
2:C:165:LEU:HD21	2:C:338:GLU:OE1	2.16	0.45
2:C:363:SER:O	2:C:367:LEU:N	2.40	0.45
2:C:497:ALA:HA	2:C:502:PRO:CB	2.47	0.45
2:C:837:ASP:N	2:C:1001:VAL:HG23	2.31	0.45
2:C:918:LEU:CD1	2:C:968:ASP:O	2.65	0.45
2:C:959:PRO:HG2	2:C:960:GLU:N	2.32	0.45
2:C:1008:ARG:CD	2:C:1029:GLY:H	2.29	0.45
2:C:1026:GLN:NE2	3:D:674:ARG:HH21	2.13	0.45
3:D:10:ILE:HG12	3:D:11:ALA:N	2.26	0.45
3:D:754:PHE:O	3:D:758:GLU:HG2	2.16	0.45
3:D:875:THR:HG23	3:D:879:ARG:CB	2.43	0.45
3:D:876:ASN:O	3:D:877:PRO:C	2.59	0.45
3:D:1110:GLU:O	3:D:1203:GLN:CB	2.65	0.45
3:D:1278:ILE:HG22	3:D:1279:ASP:H	1.71	0.45
3:D:1345:VAL:O	3:D:1349:LEU:HD22	2.15	0.45
3:D:1364:LEU:CG	3:D:1365:HIS:N	2.79	0.45
4:E:15:SER:O	4:E:18:ARG:HB3	2.16	0.45
1:A:85:LEU:CA	1:A:123:ASN:HD21	2.28	0.45
1:B:12:THR:O	1:B:24:VAL:N	2.48	0.45
1:B:59:GLU:O	1:B:60:ASP:CB	2.64	0.45
1:B:157:ILE:O	1:B:158:LYS:C	2.59	0.45
2:C:80:GLN:HG3	2:C:90:TYR:CZ	2.52	0.45
2:C:145:GLY:N	2:C:162:ILE:HB	2.32	0.45
2:C:159:ILE:HG21	2:C:306:THR:OG1	2.16	0.45
2:C:340:MET:SD	2:C:340:MET:O	2.74	0.45
2:C:708:TYR:N	2:C:708:TYR:CD1	2.84	0.45
2:C:874:LEU:O	2:C:875:GLY:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:880:MET:C	2:C:881:ASN:ND2	2.75	0.45
2:C:906:PHE:O	2:C:907:ASP:CB	2.64	0.45
2:C:1107:ASN:H	2:C:1108:PRO:HD3	1.81	0.45
3:D:9(U):UNK:O	3:D:10(U):UNK:CB	2.63	0.45
3:D:709:HIS:H	3:D:1228:GLU:HB3	1.82	0.45
3:D:728:LEU:HD13	3:D:745:MET:CE	2.47	0.45
3:D:794:GLN:HB3	3:D:1018:PHE:CZ	2.52	0.45
3:D:797:LYS:C	3:D:798:GLU:HG2	2.41	0.45
3:D:882:PHE:C	3:D:884:ARG:N	2.71	0.45
3:D:975:ILE:HD11	3:D:984:LEU:HD13	1.99	0.45
3:D:1008:VAL:CG1	3:D:1009:PHE:N	2.80	0.45
3:D:1431:SER:O	3:D:1432:THR:HB	2.15	0.45
3:D:1484:PHE:HB2	4:E:76:GLY:O	2.17	0.45
1:B:41:ARG:HD3	1:B:41:ARG:O	2.17	0.45
2:C:7:GLY:HA2	2:C:907:ASP:OD2	2.16	0.45
2:C:328:LEU:CB	2:C:484:VAL:HG11	2.46	0.45
2:C:421:GLU:O	2:C:423:ALA:N	2.50	0.45
2:C:586:ARG:O	2:C:586:ARG:HG3	2.16	0.45
2:C:603:VAL:HG23	2:C:604:VAL:N	2.27	0.45
2:C:674:VAL:HG23	2:C:675:ALA:O	2.16	0.45
2:C:755:LEU:HD12	2:C:756:VAL:HG23	1.97	0.45
2:C:1036:GLU:CD	2:C:1036:GLU:N	2.75	0.45
3:D:14:SER:C	3:D:17:LYS:H	2.23	0.45
3:D:583:ASP:C	3:D:585:GLY:H	2.23	0.45
3:D:586:ARG:C	3:D:588:GLY:H	2.24	0.45
3:D:728:LEU:CD1	3:D:745:MET:HE1	2.47	0.45
3:D:890:VAL:CG1	3:D:891:GLY:H	2.25	0.45
3:D:1085:THR:O	3:D:1087:LEU:N	2.50	0.45
3:D:1259:ARG:NH1	3:D:1259:ARG:HG3	2.31	0.45
3:D:1458:ASP:C	3:D:1460:LEU:N	2.73	0.45
1:A:42:ARG:HH12	2:C:857:ASP:CG	2.24	0.45
1:A:65:PHE:HD2	2:C:628:TYR:CE2	2.35	0.45
1:A:78:ILE:O	1:A:81:ASN:N	2.50	0.45
1:B:36:LEU:O	1:B:39:PRO:HD2	2.16	0.45
2:C:142:ARG:NH1	2:C:142:ARG:HG2	2.32	0.45
2:C:200:LEU:N	2:C:200:LEU:HD23	2.30	0.45
2:C:384:GLU:OE2	2:C:388:ARG:HD2	2.17	0.45
2:C:442:GLU:OE2	2:C:544:THR:HG21	2.17	0.45
2:C:688:ILE:HD12	2:C:871:LEU:CD1	2.46	0.45
2:C:987:ILE:C	3:D:948:ILE:HG21	2.41	0.45
3:D:899:LEU:O	3:D:900:ILE:HG13	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:973:ARG:C	3:D:975:ILE:N	2.75	0.45
3:D:993:VAL:O	3:D:996:LEU:HB3	2.17	0.45
1:B:97:THR:HA	1:B:142:ARG:HA	1.98	0.45
2:C:79:SER:O	2:C:80:GLN:C	2.58	0.45
2:C:124:ASP:C	2:C:124:ASP:OD1	2.60	0.45
2:C:194:VAL:HG22	2:C:221:LEU:HD12	1.97	0.45
2:C:335:THR:O	2:C:338:GLU:N	2.45	0.45
2:C:442:GLU:HG3	2:C:442:GLU:O	2.15	0.45
2:C:564:MET:HE1	2:C:846:LYS:CG	2.36	0.45
2:C:605:LYS:CD	2:C:607:ASP:CG	2.87	0.45
2:C:842:ARG:NH2	2:C:887:GLU:CD	2.72	0.45
2:C:969:LEU:HD11	3:D:953:ASP:N	2.20	0.45
2:C:1008:ARG:HB2	2:C:1029:GLY:H	1.81	0.45
2:C:1026:GLN:O	2:C:1027:PHE:HB2	2.17	0.45
3:D:477:LEU:O	3:D:478:LEU:C	2.59	0.45
3:D:507:ASN:ND2	3:D:508:ARG:H	2.14	0.45
3:D:696:HIS:CD2	4:E:57:ASP:HB2	2.51	0.45
3:D:1446:HIS:C	3:D:1446:HIS:CD2	2.94	0.45
4:E:97:GLU:C	4:E:98:GLU:HG3	2.42	0.45
1:A:31:GLY:H	1:A:192:ASP:CG	2.23	0.45
1:B:56:VAL:HG11	1:B:58:ILE:HD11	1.99	0.45
1:B:80:LEU:C	1:B:82:LEU:N	2.73	0.45
2:C:15:LEU:HD21	2:C:461:VAL:HG23	1.96	0.45
2:C:63:GLY:HA2	2:C:102:HIS:CA	2.46	0.45
2:C:164:PRO:HD3	2:C:267:TYR:HD2	1.78	0.45
2:C:274:ARG:O	2:C:278:GLU:HB2	2.17	0.45
2:C:564:MET:CG	2:C:997:LEU:HD11	2.46	0.45
2:C:659:PRO:HG2	2:C:660:ALA:N	2.28	0.45
2:C:703:ILE:HA	2:C:829:GLN:O	2.16	0.45
2:C:976:ASP:C	2:C:978:ARG:N	2.74	0.45
3:D:15:PRO:HD3	3:D:510:GLU:HB3	1.98	0.45
3:D:23:TYR:O	3:D:24:GLY:C	2.59	0.45
3:D:625:TYR:CE1	3:D:751:LEU:HD21	2.48	0.45
3:D:633:VAL:O	3:D:633:VAL:HG13	2.16	0.45
3:D:669:ASN:CG	3:D:671:LYS:HG2	2.41	0.45
3:D:701:LEU:HA	3:D:715:ALA:CB	2.45	0.45
3:D:806:PHE:CA	3:D:827:ILE:O	2.65	0.45
3:D:1070:GLU:HG3	3:D:1073:ILE:CB	2.46	0.45
3:D:1093:GLY:HA2	3:D:1097:ARG:NE	2.32	0.45
3:D:1195:CYS:SG	3:D:1202:CYS:CB	3.04	0.45
1:A:200:THR:CG2	1:A:201:ASP:N	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:163:ILE:HG21	2:C:170:PRO:N	2.32	0.45
2:C:204:GLN:O	2:C:205:GLU:CB	2.65	0.45
2:C:308:ARG:C	2:C:310:LEU:H	2.24	0.45
2:C:461:VAL:O	2:C:462:ASP:CB	2.65	0.45
2:C:559:LEU:HA	2:C:562:SER:HB3	1.99	0.45
2:C:742:ILE:HD13	2:C:823:VAL:HG13	1.99	0.45
2:C:874:LEU:CD1	2:C:875:GLY:H	2.30	0.45
2:C:981:GLU:HB3	2:C:982:PRO:CD	2.47	0.45
2:C:1030:GLN:HE21	2:C:1031:ARG:H	1.63	0.45
2:C:1037:VAL:O	2:C:1041:GLU:HG3	2.17	0.45
2:C:1045:ALA:CB	2:C:1048:THR:HB	2.33	0.45
3:D:130:ASN:CB	3:D:464:LEU:HD21	2.47	0.45
3:D:507:ASN:CG	3:D:508:ARG:N	2.75	0.45
3:D:699:VAL:HA	3:D:716:PHE:O	2.17	0.45
3:D:1252:ASP:O	3:D:1254:THR:N	2.44	0.45
3:D:1268:ARG:NH1	3:D:1331:ILE:CB	2.80	0.45
3:D:1320:VAL:O	3:D:1322:ALA:N	2.50	0.45
2:C:12:VAL:C	2:C:13:ILE:HD12	2.43	0.45
2:C:157:ARG:HD3	2:C:157:ARG:N	2.28	0.45
2:C:212:SER:HB2	2:C:218:VAL:CG2	2.47	0.45
2:C:589:ARG:HH12	2:C:596:TYR:HA	1.81	0.45
2:C:614:ARG:O	2:C:615:TYR:CB	2.65	0.45
2:C:709:GLU:C	2:C:710:ILE:HG13	2.42	0.45
2:C:1092:LEU:HD22	2:C:1097:LEU:HD12	1.99	0.45
3:D:104:PHE:O	3:D:511:TRP:HZ3	2.00	0.45
3:D:977:GLN:C	3:D:979:TYR:N	2.75	0.45
3:D:1146:TYR:HD2	3:D:1147:GLY:N	2.13	0.45
3:D:1421:LEU:HD12	3:D:1422:LEU:H	1.82	0.45
3:D:1466:ASN:HD21	3:D:1471:ARG:NH1	2.15	0.45
1:A:30:ARG:HD2	1:A:190:ASP:HB3	1.99	0.44
1:A:44:LEU:O	1:A:173:VAL:HG21	2.18	0.44
1:A:66:SER:CB	1:A:75:VAL:HG21	2.44	0.44
1:A:214:VAL:HG23	1:A:215:ALA:N	2.31	0.44
1:B:56:VAL:O	1:B:163:ALA:O	2.35	0.44
1:B:138:TYR:CE2	1:B:140:GLU:HG3	2.52	0.44
1:B:147:VAL:O	1:B:170:PHE:O	2.34	0.44
2:C:86:LYS:CE	2:C:811:PRO:HG2	2.47	0.44
2:C:196:LEU:O	2:C:199:VAL:HB	2.17	0.44
2:C:231:PRO:HA	2:C:234:ALA:HB2	1.98	0.44
2:C:274:ARG:C	2:C:276:LYS:H	2.25	0.44
2:C:552:HIS:CE1	3:D:1065:GLY:CA	3.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:612:ALA:O	2:C:613:VAL:C	2.60	0.44
2:C:684:PHE:O	2:C:685:GLU:HB2	2.17	0.44
2:C:1004:LYS:O	2:C:1005:MET:HB3	2.17	0.44
2:C:1042:ALA:CB	3:D:1228:GLU:OE1	2.66	0.44
3:D:654:LYS:O	3:D:655:PRO:C	2.58	0.44
3:D:805:ALA:HB1	3:D:809:PRO:HD2	1.99	0.44
3:D:972:LEU:O	3:D:976:GLU:HG2	2.17	0.44
3:D:1031:GLY:O	3:D:1032:ASN:CB	2.55	0.44
3:D:1155:GLU:HB3	3:D:1160:ARG:HG2	1.98	0.44
3:D:1173:HIS:O	3:D:1174:PHE:C	2.60	0.44
3:D:1463:LEU:O	3:D:1465:GLU:N	2.50	0.44
1:A:161:ILE:HG23	1:A:162:ASN:ND2	2.31	0.44
2:C:9:ILE:HD13	2:C:494:TYR:CE1	2.52	0.44
2:C:17:PRO:HA	2:C:586:ARG:HH21	1.82	0.44
2:C:18:LEU:HD13	2:C:542:LEU:CD2	2.47	0.44
2:C:32:ALA:C	2:C:34:VAL:N	2.73	0.44
2:C:225:ALA:O	2:C:226:VAL:C	2.59	0.44
2:C:292:ARG:C	2:C:294:GLU:H	2.25	0.44
2:C:589:ARG:HH21	2:C:654:LEU:CD1	2.30	0.44
2:C:677:MET:N	2:C:873:PRO:HD3	2.32	0.44
2:C:729:LEU:CD2	2:C:734:LEU:HD23	2.47	0.44
2:C:1055:ILE:HG21	2:C:1077:PRO:HB3	1.99	0.44
3:D:575:GLN:O	3:D:578:VAL:N	2.47	0.44
3:D:603:LEU:O	3:D:606:ILE:HD13	2.17	0.44
3:D:606:ILE:N	3:D:606:ILE:CD1	2.75	0.44
3:D:660:LYS:O	3:D:661:MET:C	2.60	0.44
3:D:773:ALA:O	3:D:774:SER:CB	2.65	0.44
3:D:896:ALA:O	3:D:899:LEU:N	2.48	0.44
3:D:954:ASP:HA	3:D:956:VAL:HG23	2.00	0.44
3:D:1312:LEU:O	3:D:1324:GLN:OE1	2.34	0.44
3:D:1317:GLY:O	3:D:1318:ASP:CB	2.64	0.44
3:D:1340:LYS:HA	3:D:1340:LYS:HD2	1.84	0.44
3:D:1487:VAL:O	4:E:79:LEU:CD1	2.65	0.44
4:E:57:ASP:HA	4:E:58:PRO:HD3	1.81	0.44
1:A:24:VAL:HG12	1:A:25:LEU:O	2.17	0.44
1:A:126:LEU:O	1:A:127:HIS:C	2.60	0.44
1:A:196:LEU:H	1:A:196:LEU:CD2	2.31	0.44
1:B:89:PHE:O	1:B:90:LEU:C	2.60	0.44
1:B:105:PRO:CA	1:B:132:GLU:HA	2.43	0.44
2:C:22:GLN:HA	2:C:25:SER:HB3	1.99	0.44
2:C:48:PHE:HE2	2:C:71:TYR:HB3	1.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:158:TYR:CD1	2:C:158:TYR:C	2.95	0.44
2:C:377:PRO:HG2	2:C:378:LEU:H	1.82	0.44
2:C:474:VAL:HG12	2:C:526:PRO:HB3	1.99	0.44
2:C:474:VAL:HA	2:C:527:GLU:CB	2.47	0.44
2:C:501:THR:N	2:C:502:PRO:CD	2.80	0.44
2:C:527:GLU:O	2:C:528:GLU:C	2.60	0.44
2:C:603:VAL:O	2:C:613:VAL:O	2.35	0.44
2:C:873:PRO:O	2:C:877:PRO:CG	2.65	0.44
3:D:131:LYS:CB	3:D:454:ALA:HA	2.47	0.44
3:D:628:ARG:HB3	3:D:628:ARG:NH1	2.32	0.44
3:D:638:LYS:O	3:D:639:LEU:CB	2.65	0.44
3:D:642:CYS:SG	3:D:702:LEU:CD2	3.05	0.44
3:D:657:LEU:HD13	3:D:690:ALA:HB1	1.99	0.44
3:D:841:PHE:C	3:D:843:PHE:H	2.25	0.44
3:D:925:GLU:HG2	3:D:926:LYS:N	2.33	0.44
3:D:1025:ALA:O	3:D:1026:GLN:C	2.60	0.44
3:D:1126:MET:CE	3:D:1133:LEU:HD21	2.45	0.44
3:D:1276:SER:N	3:D:1323:GLY:HA2	2.19	0.44
3:D:1282:VAL:HB	3:D:1283:ARG:H	1.29	0.44
3:D:1381:GLU:O	3:D:1419:LYS:N	2.50	0.44
1:A:65:PHE:HD2	2:C:628:TYR:HE2	1.65	0.44
1:A:75:VAL:HA	1:A:78:ILE:CD1	2.36	0.44
1:B:141:VAL:O	1:B:141:VAL:HG13	2.17	0.44
2:C:9:ILE:HD13	2:C:494:TYR:HE1	1.82	0.44
2:C:141:HIS:HE2	2:C:332:ARG:HD3	1.82	0.44
2:C:243:ARG:CG	2:C:244:PRO:HA	2.44	0.44
2:C:473:ARG:O	2:C:531:PHE:O	2.34	0.44
2:C:882:LEU:CD1	2:C:884:GLN:NE2	2.80	0.44
2:C:1032:PHE:HB2	3:D:623:VAL:CG2	2.43	0.44
2:C:1054:THR:O	2:C:1056:LYS:N	2.50	0.44
3:D:37(U):UNK:O	3:D:38(U):UNK:CB	2.65	0.44
3:D:550:ARG:NH2	3:D:573:MET:SD	2.90	0.44
3:D:845:ASN:CB	3:D:846:PRO:HD2	2.48	0.44
3:D:1167:LEU:O	3:D:1167:LEU:HD23	2.18	0.44
3:D:1393:GLY:O	3:D:1394:GLN:C	2.59	0.44
1:A:102:ALA:CB	1:A:108:VAL:HG21	2.47	0.44
1:A:180:VAL:HG23	2:C:939:ARG:HH11	1.83	0.44
1:A:205:THR:O	1:A:206:PRO:C	2.61	0.44
1:B:50:GLY:HA3	1:B:172:PRO:HD3	2.00	0.44
1:B:100:LEU:HD21	1:B:108:VAL:HG13	1.99	0.44
1:B:136:LYS:HG2	1:B:137:LEU:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:487:THR:O	2:C:488:ALA:C	2.59	0.44
2:C:494:TYR:O	2:C:495:THR:OG1	2.33	0.44
2:C:633:GLN:N	2:C:633:GLN:CD	2.75	0.44
2:C:768:SER:C	2:C:769:PRO:O	2.59	0.44
2:C:815:LEU:HD23	2:C:822:VAL:CG2	2.48	0.44
2:C:843:HIS:CD2	2:C:884:GLN:CA	2.96	0.44
2:C:918:LEU:O	2:C:918:LEU:HD23	2.18	0.44
2:C:1054:THR:HG22	2:C:1055:ILE:N	2.33	0.44
3:D:480:GLU:HA	3:D:493:ARG:NH1	2.32	0.44
3:D:794:GLN:O	3:D:795:VAL:HG23	2.18	0.44
3:D:805:ALA:O	3:D:806:PHE:CB	2.66	0.44
3:D:916:TYR:CE2	3:D:920:LEU:HD21	2.52	0.44
3:D:1253:ILE:C	3:D:1255:GLN:N	2.65	0.44
3:D:1283:ARG:HG2	3:D:1283:ARG:NH1	2.26	0.44
3:D:1379:TYR:OH	3:D:1432:THR:HB	2.17	0.44
3:D:1444:THR:O	3:D:1448:LEU:HB2	2.18	0.44
1:A:70:GLY:HA2	2:C:606:VAL:HG22	2.00	0.44
2:C:31:GLN:CG	2:C:39:ARG:HD2	2.48	0.44
2:C:96:ALA:C	2:C:112:GLU:O	2.60	0.44
2:C:141:HIS:CE1	2:C:334:ARG:HG3	2.53	0.44
2:C:197:LEU:O	2:C:198:ARG:C	2.59	0.44
2:C:355:VAL:CG1	2:C:356:ARG:N	2.80	0.44
2:C:569:VAL:O	2:C:571:LEU:HD12	2.17	0.44
2:C:674:VAL:HB	2:C:869:VAL:HG13	1.99	0.44
2:C:676:ILE:O	2:C:677:MET:HG2	2.17	0.44
2:C:745:ILE:C	2:C:747:ALA:N	2.73	0.44
2:C:835:VAL:CG1	3:D:632:VAL:HG21	2.48	0.44
2:C:860:HIS:CD2	2:C:977:GLY:CA	2.95	0.44
2:C:870:ILE:O	2:C:870:ILE:CG2	2.63	0.44
2:C:925:TYR:OH	2:C:972:VAL:HG21	2.16	0.44
2:C:1059:ASP:OD1	2:C:1062:GLY:N	2.38	0.44
3:D:711:LEU:HD21	3:D:768:ASN:O	2.18	0.44
3:D:752:SER:O	3:D:755:ALA:N	2.48	0.44
3:D:758:GLU:HB3	4:E:20:THR:CG2	2.48	0.44
3:D:901:GLN:O	3:D:902:MET:C	2.60	0.44
3:D:935:LYS:CG	3:D:939:PHE:HE1	2.30	0.44
3:D:977:GLN:OE1	3:D:980:GLU:OE1	2.35	0.44
3:D:986:ASP:O	3:D:987:ARG:C	2.61	0.44
3:D:1070:GLU:HG3	3:D:1073:ILE:HG12	2.00	0.44
3:D:1283:ARG:HB3	3:D:1294:PHE:HB2	1.99	0.44
1:A:32:PHE:N	1:A:32:PHE:HD1	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:94:TRP:CZ3	1:A:96:THR:HB	2.53	0.44
1:A:102:ALA:O	1:A:135:GLY:O	2.36	0.44
1:A:156:GLY:H	1:A:165:PRO:HB3	1.83	0.44
1:B:19:HIS:H	1:B:19:HIS:CD2	2.35	0.44
2:C:87:ASP:O	2:C:88:LEU:HD23	2.17	0.44
2:C:129:ILE:HG21	2:C:387:SER:HB2	2.00	0.44
2:C:482:GLU:CB	2:C:486:MET:SD	3.06	0.44
2:C:572:ILE:O	2:C:573:ARG:HG3	2.18	0.44
2:C:580:MET:CB	2:C:584:GLU:OE1	2.66	0.44
2:C:601:GLY:CA	2:C:648:ARG:N	2.80	0.44
2:C:641:PRO:HA	2:C:656:ALA:HB2	1.98	0.44
2:C:984:GLU:HG2	3:D:944:THR:O	2.17	0.44
2:C:1092:LEU:CD2	2:C:1097:LEU:HD12	2.48	0.44
3:D:482:LYS:HD3	3:D:492:ALA:HB3	2.00	0.44
3:D:704:ARG:O	3:D:705:ALA:O	2.35	0.44
3:D:787:LEU:CD2	3:D:947:ILE:HD11	2.37	0.44
3:D:950:ILE:H	3:D:950:ILE:HG13	1.63	0.44
3:D:1167:LEU:CD2	3:D:1167:LEU:N	2.77	0.44
3:D:1238:THR:HG22	3:D:1239:MET:H	1.81	0.44
1:A:93:ARG:O	1:A:94:TRP:CB	2.63	0.44
1:A:102:ALA:CB	1:A:137:LEU:HB3	2.47	0.44
1:B:53:VAL:CG2	1:B:85:LEU:HD23	2.48	0.44
2:C:76:PRO:O	2:C:77:PRO:C	2.60	0.44
2:C:78:PHE:HD2	2:C:82:GLU:OE1	2.01	0.44
2:C:110:GLU:HB3	2:C:370:ALA:HB2	2.00	0.44
2:C:427:VAL:HG12	2:C:431:HIS:NE2	2.33	0.44
2:C:474:VAL:HG12	2:C:526:PRO:CA	2.47	0.44
2:C:567:GLN:O	2:C:568:ALA:O	2.35	0.44
2:C:706:GLU:CG	2:C:707:ARG:H	2.31	0.44
2:C:845:ASN:ND2	2:C:876:VAL:CG1	2.81	0.44
2:C:896:PHE:C	2:C:898:GLY:H	2.25	0.44
2:C:937:ASP:O	2:C:938:LYS:C	2.60	0.44
3:D:81:THR:O	3:D:82:ARG:CB	2.66	0.44
3:D:657:LEU:O	3:D:659:LYS:N	2.50	0.44
3:D:674:ARG:NH1	3:D:678:GLU:CG	2.80	0.44
3:D:699:VAL:HG22	3:D:756:GLN:NE2	2.33	0.44
3:D:760:ARG:HH11	4:E:59:ASN:HD21	1.66	0.44
3:D:1042:MET:HG2	3:D:1043:ARG:N	2.33	0.44
3:D:1146:TYR:CD2	3:D:1146:TYR:C	2.93	0.44
3:D:1179:ALA:HA	3:D:1184:VAL:O	2.18	0.44
3:D:1373:VAL:HG22	3:D:1376:MET:CE	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1473:ILE:HD13	3:D:1473:ILE:HA	1.89	0.44
3:D:1490:GLN:CB	4:E:72:ARG:HD2	2.48	0.44
4:E:9:LEU:C	4:E:11:GLY:N	2.71	0.44
4:E:80:VAL:N	4:E:81:PRO:HD2	2.32	0.44
1:B:53:VAL:HG12	1:B:54:THR:N	2.32	0.44
1:B:180:VAL:O	1:B:180:VAL:HG22	2.16	0.44
1:B:187:GLN:CD	1:B:188:ARG:N	2.76	0.44
1:B:221:LEU:O	1:B:224:PHE:HD1	2.01	0.44
2:C:97:ARG:NH2	2:C:109:LYS:NZ	2.66	0.44
2:C:165:LEU:HD11	2:C:338:GLU:OE1	2.18	0.44
2:C:208:VAL:HG12	2:C:209:ARG:H	1.82	0.44
2:C:425:PHE:O	2:C:426:ASP:CB	2.65	0.44
3:D:108:VAL:O	3:D:110:SER:N	2.51	0.44
3:D:131:LYS:O	3:D:133:ILE:N	2.51	0.44
3:D:711:LEU:HB3	3:D:735:ALA:HB1	1.99	0.44
3:D:1107:VAL:HG12	3:D:1109:ARG:HG3	2.00	0.44
3:D:1109:ARG:O	3:D:1110:GLU:CB	2.65	0.44
3:D:1239:MET:HG3	3:D:1239:MET:O	2.18	0.44
3:D:1433:LYS:HG2	3:D:1434:SER:H	1.80	0.44
1:A:137:LEU:O	1:A:138:TYR:C	2.59	0.43
1:A:186:GLY:C	1:A:187:GLN:HG3	2.43	0.43
2:C:89:THR:HG23	2:C:129:ILE:HG12	2.00	0.43
2:C:253:ALA:C	2:C:255:ALA:H	2.26	0.43
2:C:258:PHE:N	2:C:258:PHE:HD1	2.15	0.43
2:C:442:GLU:O	2:C:559:LEU:HB2	2.18	0.43
2:C:574:ALA:O	2:C:575:GLN:O	2.35	0.43
2:C:862:PRO:HA	2:C:975:TYR:HE1	1.77	0.43
2:C:1089:VAL:C	2:C:1091:GLU:H	2.26	0.43
3:D:8:VAL:O	3:D:8:VAL:HG12	2.17	0.43
3:D:618:LEU:HD23	3:D:618:LEU:HA	1.77	0.43
3:D:795:VAL:H	3:D:862:ASP:CB	2.31	0.43
3:D:994:ILE:O	3:D:995:GLN:C	2.61	0.43
3:D:1337:LEU:O	3:D:1341:GLY:N	2.51	0.43
4:E:39:VAL:O	4:E:39:VAL:HG12	2.17	0.43
1:A:9:PRO:HG3	1:A:25:LEU:HD13	2.00	0.43
1:A:26:GLU:OE2	1:A:184:ARG:NE	2.50	0.43
1:A:80:LEU:HD11	2:C:572:ILE:HD12	1.99	0.43
1:A:103:GLU:H	1:A:106:LYS:NZ	2.16	0.43
1:B:58:ILE:HA	1:B:138:TYR:O	2.18	0.43
1:B:89:PHE:O	1:B:89:PHE:CG	2.71	0.43
1:B:111:VAL:CG2	1:B:124:PRO:HA	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:6:PHE:CD2	2:C:909:ALA:N	2.81	0.43
2:C:94:LEU:HD23	2:C:344:PHE:CZ	2.50	0.43
2:C:112:GLU:O	2:C:113:VAL:CB	2.65	0.43
2:C:159:ILE:HD12	2:C:174:LEU:CB	2.47	0.43
2:C:396:ASP:O	2:C:403:SER:N	2.51	0.43
2:C:474:VAL:CG2	2:C:530:GLU:HA	2.45	0.43
2:C:525:ALA:CB	2:C:526:PRO:CD	2.94	0.43
2:C:580:MET:O	2:C:584:GLU:CD	2.61	0.43
2:C:738:ASP:HA	2:C:743:VAL:HA	1.99	0.43
2:C:836:GLY:O	2:C:837:ASP:O	2.37	0.43
2:C:837:ASP:O	2:C:848:VAL:HG23	2.18	0.43
2:C:841:ASN:ND2	2:C:841:ASN:C	2.71	0.43
3:D:578:VAL:O	3:D:582:ILE:HG13	2.19	0.43
3:D:601:ARG:O	3:D:602:SER:O	2.37	0.43
3:D:638:LYS:CA	3:D:729:HIS:CD2	3.01	0.43
3:D:767:HIS:O	3:D:769:LEU:N	2.47	0.43
3:D:815:ALA:CB	3:D:832:ARG:HD2	2.48	0.43
3:D:948:ILE:HG12	3:D:950:ILE:HG13	1.99	0.43
3:D:1016:TYR:HB3	3:D:1020:PRO:CD	2.30	0.43
3:D:1196:GLN:O	3:D:1197:THR:OG1	2.36	0.43
4:E:59:ASN:O	4:E:62:THR:HB	2.17	0.43
1:A:125:ASP:HB2	1:A:126:LEU:H	1.55	0.43
2:C:9:ILE:O	2:C:10:ARG:CB	2.66	0.43
2:C:16:PRO:HA	2:C:17:PRO:HA	1.52	0.43
2:C:54:ILE:HG12	2:C:355:VAL:HG11	2.00	0.43
2:C:66:LEU:CA	2:C:100:LEU:HA	2.45	0.43
2:C:115:LEU:CD2	2:C:378:LEU:HD22	2.49	0.43
2:C:251:ASP:C	2:C:253:ALA:H	2.26	0.43
2:C:261:LEU:HD21	2:C:263:ASP:CB	2.48	0.43
2:C:310:LEU:HA	2:C:313:LEU:CD2	2.48	0.43
2:C:328:LEU:HD21	2:C:468:ARG:NH1	2.33	0.43
2:C:399:ASN:HD22	2:C:401:LEU:N	2.12	0.43
2:C:439:CYS:HA	2:C:440:PRO:HD2	1.80	0.43
2:C:446:GLY:O	2:C:447:ALA:CB	2.63	0.43
2:C:515:ALA:O	2:C:516:ARG:C	2.61	0.43
2:C:679:PHE:CE2	2:C:978:ARG:NH2	2.86	0.43
2:C:681:GLY:O	2:C:684:PHE:HB2	2.18	0.43
2:C:731:GLU:O	2:C:732:ALA:C	2.59	0.43
3:D:100:ALA:HA	3:D:575:GLN:OE1	2.18	0.43
3:D:108:VAL:C	3:D:110:SER:H	2.26	0.43
3:D:710:ARG:O	3:D:712:GLY:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:729:HIS:ND1	3:D:730:PRO:CD	2.81	0.43
3:D:880:ILE:O	3:D:883:ALA:N	2.50	0.43
3:D:913:ASP:O	3:D:914:LEU:C	2.61	0.43
3:D:1004:VAL:O	3:D:1007:ALA:HB3	2.17	0.43
3:D:1015:ASN:O	3:D:1016:TYR:HB2	2.16	0.43
3:D:1100:VAL:O	3:D:1104:HIS:HB3	2.18	0.43
3:D:1145:LEU:HB2	3:D:1172:VAL:CG1	2.44	0.43
3:D:1366:ASP:O	3:D:1367:LYS:HB2	2.18	0.43
3:D:1423:MET:HB3	3:D:1428:SER:HB2	2.00	0.43
1:A:72:LYS:O	1:A:73:GLU:O	2.36	0.43
1:A:113:PHE:O	1:A:114:THR:C	2.61	0.43
1:A:158:LYS:O	1:A:160:ARG:N	2.49	0.43
1:A:183:THR:O	1:A:183:THR:HG23	2.18	0.43
1:B:54:THR:C	1:B:166:VAL:HG22	2.43	0.43
1:B:65:PHE:O	1:B:65:PHE:CD1	2.71	0.43
2:C:83:CYS:SG	2:C:90:TYR:HA	2.57	0.43
2:C:160:ALA:HA	2:C:173:ASP:OD1	2.19	0.43
2:C:232:GLU:CD	2:C:250:LYS:HD3	2.42	0.43
2:C:721:ARG:O	2:C:758:ARG:HB2	2.19	0.43
2:C:759:THR:HA	2:C:786:LYS:O	2.18	0.43
2:C:1051:GLU:OE2	3:D:751:LEU:CB	2.66	0.43
3:D:104:PHE:O	3:D:511:TRP:CZ3	2.71	0.43
3:D:482:LYS:HE2	3:D:488:ARG:O	2.17	0.43
3:D:502:PHE:CD1	3:D:1453:ILE:HG23	2.52	0.43
3:D:540:LEU:O	3:D:541:ASN:C	2.60	0.43
3:D:894:LYS:C	3:D:896:ALA:N	2.76	0.43
3:D:903:ASP:C	3:D:905:PRO:HD3	2.44	0.43
3:D:1012:PHE:CD2	3:D:1023:VAL:HG11	2.53	0.43
3:D:1094:TYR:HE2	3:D:1098:LYS:HE3	1.83	0.43
3:D:1214:ARG:HD2	3:D:1215:PRO:HD2	1.99	0.43
3:D:1276:SER:HA	3:D:1304:TYR:CE1	2.52	0.43
3:D:1344:ALA:O	3:D:1346:GLU:N	2.52	0.43
1:A:55:SER:O	1:A:141:VAL:HA	2.18	0.43
1:A:59:GLU:OE2	1:A:136:LYS:HE3	2.18	0.43
1:B:23:PHE:O	1:B:195:THR:HA	2.18	0.43
1:B:79:ILE:HG22	1:B:80:LEU:N	2.34	0.43
1:B:89:PHE:CZ	1:B:145:ARG:NE	2.77	0.43
2:C:41:ASN:C	2:C:42:VAL:O	2.59	0.43
2:C:104:ASP:O	2:C:105:THR:O	2.36	0.43
2:C:168:ARG:NH1	2:C:268:ASP:OD2	2.51	0.43
2:C:304:LEU:H	2:C:305:PRO:HD2	1.78	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:332:ARG:HH21	2:C:338:GLU:CD	2.26	0.43
2:C:1005:MET:HB2	3:D:629:SER:HB2	2.01	0.43
2:C:1054:THR:C	2:C:1056:LYS:H	2.25	0.43
3:D:882:PHE:C	3:D:884:ARG:H	2.26	0.43
3:D:1077:GLY:CA	3:D:1080:LYS:HG2	2.48	0.43
1:A:146:GLY:HA3	1:A:170:PHE:CZ	2.53	0.43
1:B:26:GLU:O	1:B:27:PRO:C	2.58	0.43
1:B:57:TYR:C	1:B:57:TYR:CD2	2.97	0.43
1:B:86:VAL:N	1:B:123:ASN:OD1	2.51	0.43
1:B:133:GLU:CG	1:B:134:GLY:H	2.31	0.43
2:C:161:SER:OG	2:C:172:ILE:HG22	2.19	0.43
2:C:327:HIS:O	2:C:329:GLY:N	2.38	0.43
2:C:439:CYS:CB	2:C:468:ARG:NH1	2.70	0.43
2:C:676:ILE:O	2:C:677:MET:CG	2.67	0.43
2:C:821:GLU:O	2:C:822:VAL:CG2	2.66	0.43
2:C:920:GLU:HG2	2:C:921:ALA:N	2.21	0.43
2:C:1053:LEU:HD12	3:D:621:LYS:HD2	2.01	0.43
2:C:1109:VAL:O	2:C:1109:VAL:HG13	2.17	0.43
3:D:770:LEU:O	3:D:771:SER:HB2	2.16	0.43
3:D:794:GLN:O	3:D:795:VAL:CB	2.66	0.43
3:D:899:LEU:O	3:D:900:ILE:HG12	2.18	0.43
3:D:990:TYR:HD2	3:D:991:ASP:OD1	2.01	0.43
3:D:1023:VAL:HA	3:D:1026:GLN:CB	2.49	0.43
3:D:1049:PRO:HD3	3:D:1076:HIS:CE1	2.54	0.43
3:D:1227:ALA:O	3:D:1228:GLU:C	2.61	0.43
3:D:1374:ARG:O	3:D:1377:LEU:N	2.52	0.43
3:D:1480:ASP:C	3:D:1482:VAL:N	2.76	0.43
1:B:19:HIS:CD2	1:B:19:HIS:N	2.86	0.43
1:B:164:ILE:O	1:B:165:PRO:C	2.62	0.43
2:C:91:GLN:HB3	2:C:117:HIS:HB3	2.01	0.43
2:C:406:HIS:ND1	2:C:406:HIS:O	2.51	0.43
2:C:421:GLU:H	2:C:424:GLY:HA3	1.84	0.43
2:C:776:SER:O	2:C:777:ILE:C	2.61	0.43
2:C:922:PHE:CE2	2:C:964:LYS:HB2	2.53	0.43
2:C:971:LYS:O	2:C:972:VAL:O	2.36	0.43
3:D:637:LEU:O	3:D:639:LEU:O	2.36	0.43
3:D:643:GLY:CA	3:D:727:GLN:HB2	2.49	0.43
3:D:683:ILE:HG22	3:D:684:LYS:N	2.33	0.43
3:D:817:GLU:O	3:D:818:ARG:HB3	2.19	0.43
3:D:836:VAL:HG21	3:D:858:LEU:CD2	2.47	0.43
3:D:859:ASP:C	3:D:861:GLN:H	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:903:ASP:O	3:D:904:VAL:C	2.61	0.43
3:D:940:THR:O	3:D:943:THR:HB	2.19	0.43
3:D:965:LEU:HD21	3:D:1042:MET:HE3	2.00	0.43
3:D:1017:PRO:HG2	3:D:1018:PHE:CD1	2.54	0.43
3:D:1423:MET:HE3	3:D:1428:SER:HA	2.00	0.43
1:B:30:ARG:HG3	1:B:30:ARG:O	2.17	0.43
1:B:88:ARG:NE	1:B:122:MET:HE2	2.34	0.43
1:B:132:GLU:CG	1:B:133:GLU:N	2.82	0.43
2:C:91:GLN:HE22	2:C:383:ARG:HD2	1.83	0.43
2:C:304:LEU:HD23	2:C:305:PRO:HG3	2.01	0.43
2:C:352:ALA:O	2:C:355:VAL:CG1	2.67	0.43
2:C:520:GLU:C	2:C:522:VAL:N	2.76	0.43
2:C:668:LEU:HD23	2:C:668:LEU:HA	1.79	0.43
2:C:754:ILE:HD13	2:C:791:ARG:CG	2.48	0.43
3:D:95:LEU:O	3:D:96:ALA:CB	2.64	0.43
3:D:548:ILE:C	3:D:550:ARG:N	2.74	0.43
3:D:886:VAL:HG22	3:D:930:LEU:HD11	2.01	0.43
3:D:1291:LEU:HB3	3:D:1306:LEU:HB3	2.00	0.43
1:A:83:LYS:NZ	2:C:698:ASP:HB2	2.34	0.43
1:A:110:ALA:N	1:A:128:ILE:HG13	2.34	0.43
1:A:157:ILE:HG13	1:A:160:ARG:HG2	2.00	0.43
1:A:182:ASP:O	1:A:182:ASP:CG	2.62	0.43
1:B:16:GLN:HB2	1:B:20:TYR:O	2.19	0.43
1:B:32:PHE:O	1:B:33:GLY:C	2.62	0.43
1:B:86:VAL:HG13	1:B:202:GLY:HA2	2.01	0.43
2:C:304:LEU:HD23	2:C:305:PRO:CD	2.49	0.43
2:C:421:GLU:CG	2:C:423:ALA:H	2.32	0.43
2:C:445:GLU:O	2:C:449:ILE:CD1	2.67	0.43
2:C:710:ILE:CD1	2:C:823:VAL:HB	2.35	0.43
2:C:714:ASP:O	2:C:715:THR:C	2.61	0.43
2:C:911:GLU:N	2:C:912:PRO:HD2	2.34	0.43
2:C:918:LEU:O	2:C:920:GLU:O	2.37	0.43
3:D:794:GLN:C	3:D:795:VAL:HG23	2.44	0.43
3:D:1111:ALA:O	3:D:1112:ASP:C	2.61	0.43
3:D:1273:ALA:C	3:D:1325:PRO:HG3	2.41	0.43
3:D:1347:ARG:HD2	3:D:1347:ARG:HA	1.87	0.43
3:D:1397:GLU:O	3:D:1400:ASP:HB3	2.18	0.43
3:D:1398:LYS:C	3:D:1400:ASP:H	2.26	0.43
1:A:36:LEU:O	1:A:40:LEU:HG	2.19	0.43
1:B:47:SER:O	1:B:48:ILE:HG12	2.19	0.43
2:C:290:LEU:HD12	2:C:300:ASP:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:801:VAL:CG2	2:C:828:ALA:CB	2.91	0.43
2:C:918:LEU:HD13	2:C:968:ASP:HA	2.00	0.43
2:C:1089:VAL:O	2:C:1093:GLN:HG3	2.18	0.43
3:D:21:TRP:C	3:D:23:TYR:N	2.77	0.43
3:D:70:GLY:C	3:D:72:VAL:N	2.77	0.43
3:D:704:ARG:CG	3:D:704:ARG:NH1	2.82	0.43
3:D:861:GLN:O	3:D:862:ASP:CB	2.67	0.43
3:D:1067:THR:C	3:D:1069:LEU:N	2.74	0.43
4:E:79:LEU:O	4:E:80:VAL:C	2.61	0.43
1:A:217:LEU:HG	1:A:221:LEU:HD23	2.01	0.42
1:B:123:ASN:OD1	1:B:123:ASN:N	2.38	0.42
2:C:42:VAL:N	2:C:46:ALA:HB2	2.33	0.42
2:C:298:PHE:N	2:C:298:PHE:HD1	2.16	0.42
2:C:443:THR:N	2:C:444:PRO:HD2	2.34	0.42
2:C:910:THR:CB	2:C:912:PRO:HD2	2.49	0.42
2:C:1005:MET:O	2:C:1005:MET:HG3	2.09	0.42
2:C:1021:LEU:HG	3:D:622:ARG:HG3	2.00	0.42
2:C:1045:ALA:O	2:C:1046:ALA:C	2.62	0.42
2:C:1050:GLN:HG2	2:C:1054:THR:OG1	2.19	0.42
3:D:486:ARG:HG3	3:D:487:ALA:H	1.84	0.42
3:D:653:PHE:CD1	3:D:653:PHE:N	2.87	0.42
3:D:655:PRO:O	3:D:656:PHE:C	2.60	0.42
3:D:795:VAL:CG1	3:D:796:ARG:N	2.82	0.42
3:D:858:LEU:C	3:D:860:LEU:N	2.77	0.42
3:D:1102:VAL:HG12	3:D:1375:GLN:HB3	2.01	0.42
3:D:1263:LEU:C	3:D:1265:GLU:N	2.77	0.42
3:D:1364:LEU:CG	3:D:1365:HIS:H	2.32	0.42
4:E:87:LYS:C	4:E:89:MET:N	2.76	0.42
1:A:58:ILE:HG21	1:A:68:ILE:HD13	2.00	0.42
1:A:109:ARG:H	1:A:109:ARG:HD2	1.83	0.42
1:B:99:ILE:O	1:B:114:THR:N	2.52	0.42
2:C:6:PHE:CE2	2:C:909:ALA:HA	2.54	0.42
2:C:21:ILE:O	2:C:335:THR:HG21	2.19	0.42
2:C:225:ALA:O	2:C:229:MET:HG2	2.20	0.42
2:C:226:VAL:C	2:C:229:MET:HG2	2.44	0.42
2:C:270:GLY:O	2:C:271:GLU:C	2.63	0.42
2:C:360:VAL:HG12	2:C:361:MET:N	2.35	0.42
2:C:394:PHE:O	2:C:395:LYS:CB	2.67	0.42
2:C:426:ASP:O	2:C:426:ASP:CG	2.62	0.42
2:C:506:ASP:O	2:C:507:ARG:C	2.63	0.42
2:C:872:ASN:ND2	2:C:874:LEU:H	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:100:ALA:HB2	3:D:575:GLN:HG3	2.01	0.42
3:D:477:LEU:CD1	3:D:480:GLU:HB3	2.46	0.42
3:D:673:ALA:O	3:D:674:ARG:C	2.63	0.42
3:D:836:VAL:CG1	3:D:858:LEU:HD21	2.47	0.42
3:D:844:ALA:O	3:D:845:ASN:CB	2.67	0.42
3:D:875:THR:HG22	3:D:876:ASN:O	2.19	0.42
3:D:876:ASN:HD21	3:D:904:VAL:HG21	1.84	0.42
3:D:1035:GLN:HE22	3:D:1038:GLN:CD	2.26	0.42
3:D:1195:CYS:SG	3:D:1202:CYS:SG	3.17	0.42
1:A:95:ARG:HD3	1:A:95:ARG:H	1.84	0.42
1:A:109:ARG:HD3	1:A:112:ASP:OD2	2.20	0.42
1:A:142:ARG:NE	1:A:158:LYS:HE2	2.34	0.42
1:A:153:GLU:O	1:A:155:HIS:N	2.50	0.42
1:A:161:ILE:HG12	1:A:162:ASN:ND2	2.34	0.42
1:A:184:ARG:HE	1:A:193:LYS:CD	2.27	0.42
1:B:76:VAL:CA	1:B:79:ILE:HB	2.46	0.42
1:B:159:ASP:O	1:B:161:ILE:O	2.38	0.42
1:B:198:ILE:HG22	1:B:206:PRO:HB3	2.00	0.42
1:B:201:ASP:O	1:B:203:SER:N	2.48	0.42
2:C:12:VAL:CG1	2:C:13:ILE:HD12	2.49	0.42
2:C:66:LEU:HD11	2:C:98:LEU:HB3	2.01	0.42
2:C:355:VAL:HG13	2:C:356:ARG:H	1.81	0.42
2:C:428:ARG:NH1	3:D:1083:ALA:O	2.53	0.42
2:C:688:ILE:CG2	2:C:869:VAL:HG23	2.49	0.42
2:C:730:SER:O	2:C:731:GLU:C	2.61	0.42
2:C:939:ARG:NH2	2:C:975:TYR:CZ	2.87	0.42
3:D:647:ARG:HA	3:D:647:ARG:HD2	1.82	0.42
3:D:680:GLN:C	3:D:681:ARG:HG3	2.44	0.42
3:D:772:PRO:HG3	3:D:778:LEU:CD2	2.49	0.42
3:D:878:GLY:C	3:D:880:ILE:N	2.75	0.42
3:D:1061:SER:O	3:D:1063:ARG:N	2.40	0.42
3:D:1063:ARG:NH1	3:D:1063:ARG:CG	2.82	0.42
3:D:1084:ASP:O	3:D:1086:ALA:N	2.51	0.42
1:A:26:GLU:OE1	1:A:184:ARG:HG3	2.19	0.42
1:A:99:ILE:O	1:A:114:THR:HG22	2.19	0.42
1:A:104:GLY:N	1:A:135:GLY:HA3	2.34	0.42
1:A:109:ARG:H	1:A:109:ARG:HD3	1.85	0.42
1:A:120:GLU:C	1:A:121:ILE:HD13	2.44	0.42
1:B:47:SER:O	1:B:216:ILE:HD13	2.20	0.42
1:B:82:LEU:HD21	1:B:141:VAL:CG2	2.49	0.42
1:B:86:VAL:HG11	1:B:201:ASP:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:170:PHE:C	1:B:171:SER:HG	2.26	0.42
2:C:56:GLU:HG2	2:C:57:GLY:N	2.34	0.42
2:C:201:GLY:O	2:C:202:TYR:O	2.37	0.42
2:C:421:GLU:C	2:C:423:ALA:N	2.73	0.42
2:C:497:ALA:HA	2:C:502:PRO:CG	2.45	0.42
2:C:504:GLU:C	2:C:506:ASP:N	2.77	0.42
2:C:672:VAL:HG13	2:C:868:ASP:HB2	2.01	0.42
2:C:1047:HIS:CD2	3:D:754:PHE:CD2	3.07	0.42
3:D:100:ALA:HB1	3:D:579:ASP:OD1	2.19	0.42
3:D:554:LEU:O	3:D:558:LEU:HB2	2.19	0.42
3:D:583:ASP:O	3:D:585:GLY:N	2.41	0.42
3:D:696:HIS:HD2	4:E:57:ASP:HB2	1.83	0.42
1:A:186:GLY:O	1:A:187:GLN:HG3	2.19	0.42
1:B:213:ALA:HA	1:B:216:ILE:CG1	2.49	0.42
2:C:46:ALA:O	2:C:50:GLU:N	2.42	0.42
2:C:920:GLU:CG	2:C:921:ALA:N	2.82	0.42
2:C:969:LEU:HG	2:C:970:GLY:H	1.85	0.42
3:D:473:LEU:HD23	3:D:503:LEU:HD11	2.02	0.42
3:D:485:SER:CB	3:D:488:ARG:HB2	2.49	0.42
3:D:545:ARG:HG2	3:D:546:ARG:N	2.34	0.42
3:D:573:MET:O	3:D:574:LEU:C	2.58	0.42
3:D:580:ALA:O	3:D:581:VAL:C	2.62	0.42
3:D:634:GLY:N	3:D:728:LEU:O	2.47	0.42
3:D:875:THR:HG22	3:D:876:ASN:N	2.33	0.42
3:D:970:ARG:NH2	3:D:971:LYS:NZ	2.68	0.42
3:D:1044:GLY:HA3	3:D:1057:PRO:HB2	2.00	0.42
3:D:1087:LEU:CA	3:D:1090:ALA:HB3	2.49	0.42
3:D:1112:ASP:C	3:D:1113:CYS:O	2.61	0.42
3:D:1232:GLU:OE1	3:D:1233:PRO:HG3	2.19	0.42
1:B:127:HIS:ND1	1:B:127:HIS:C	2.75	0.42
1:B:158:LYS:HB3	1:B:159:ASP:H	1.55	0.42
1:B:194:LEU:O	1:B:195:THR:CB	2.67	0.42
2:C:100:LEU:CG	2:C:369:PRO:HD3	2.44	0.42
2:C:140:ILE:HG23	2:C:410:ILE:CG2	2.50	0.42
2:C:197:LEU:HD22	2:C:202:TYR:CD1	2.54	0.42
2:C:764:GLU:OE1	2:C:764:GLU:N	2.52	0.42
2:C:857:ASP:OD1	2:C:978:ARG:HG2	2.19	0.42
2:C:935:GLY:O	2:C:936:VAL:C	2.62	0.42
2:C:1070:ILE:N	2:C:1070:ILE:HD12	2.33	0.42
3:D:129:PHE:O	3:D:130:ASN:CB	2.67	0.42
3:D:557:LEU:HG	3:D:557:LEU:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:705:ALA:O	3:D:706:PRO:C	2.59	0.42
3:D:730:PRO:O	3:D:732:VAL:N	2.53	0.42
3:D:758:GLU:HB3	4:E:20:THR:HG21	2.00	0.42
3:D:836:VAL:HG11	3:D:858:LEU:CD1	2.48	0.42
3:D:896:ALA:O	3:D:898:GLU:N	2.52	0.42
3:D:1060:SER:C	3:D:1062:PHE:N	2.76	0.42
3:D:1109:ARG:O	3:D:1110:GLU:HB3	2.20	0.42
3:D:1382:VAL:HG23	3:D:1393:GLY:N	2.33	0.42
4:E:50:THR:O	4:E:50:THR:HG22	2.20	0.42
1:A:32:PHE:O	1:A:34:VAL:N	2.53	0.42
2:C:227:LEU:C	2:C:229:MET:H	2.28	0.42
2:C:317:VAL:N	2:C:318:PRO:CD	2.82	0.42
2:C:609:THR:O	2:C:609:THR:HG22	2.20	0.42
2:C:758:ARG:O	2:C:758:ARG:HG2	2.18	0.42
2:C:935:GLY:O	2:C:936:VAL:O	2.37	0.42
3:D:465:LEU:HB3	3:D:509:PRO:HB2	2.02	0.42
3:D:485:SER:HB3	3:D:488:ARG:HB2	2.01	0.42
3:D:639:LEU:HD21	3:D:731:LEU:HB2	2.02	0.42
3:D:643:GLY:HA2	3:D:721:VAL:HG21	2.01	0.42
3:D:709:HIS:N	3:D:1228:GLU:HB3	2.35	0.42
3:D:1021:LEU:HD23	3:D:1021:LEU:HA	1.83	0.42
3:D:1035:GLN:O	3:D:1038:GLN:HB3	2.20	0.42
3:D:1121:VAL:HA	3:D:1122:PRO:HD2	1.92	0.42
3:D:1364:LEU:O	3:D:1365:HIS:C	2.62	0.42
3:D:1408:LEU:O	3:D:1410:ALA:N	2.53	0.42
2:C:351:LEU:HD11	2:C:373:VAL:HG22	2.00	0.42
2:C:410:ILE:CD1	2:C:468:ARG:HH21	2.31	0.42
2:C:595:LEU:HD21	2:C:623:HIS:CB	2.48	0.42
2:C:611:ILE:HD11	2:C:641:PRO:HA	2.02	0.42
2:C:755:LEU:HD11	2:C:825:VAL:CG1	2.50	0.42
2:C:931:GLY:C	2:C:933:GLY:N	2.75	0.42
3:D:462:GLN:O	3:D:465:LEU:N	2.52	0.42
3:D:502:PHE:CG	3:D:507:ASN:ND2	2.87	0.42
3:D:699:VAL:N	3:D:756:GLN:HE22	2.18	0.42
3:D:700:VAL:N	3:D:716:PHE:O	2.46	0.42
3:D:959:GLU:O	3:D:961:LYS:N	2.49	0.42
3:D:962:GLN:O	3:D:963:ARG:C	2.61	0.42
3:D:1068:VAL:C	3:D:1070:GLU:N	2.77	0.42
3:D:1087:LEU:HG	3:D:1087:LEU:O	2.19	0.42
3:D:1110:GLU:OE2	3:D:1197:THR:HG21	2.20	0.42
4:E:13:VAL:HG12	4:E:75:PHE:CZ	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:16:GLN:HE21	1:A:17:GLY:N	1.91	0.42
1:A:108:VAL:HG21	1:A:137:LEU:CD2	2.49	0.42
1:A:193:LYS:O	1:A:193:LYS:HG2	2.19	0.42
1:A:194:LEU:CG	1:A:195:THR:H	2.31	0.42
1:A:199:TRP:HD1	1:A:200:THR:OG1	2.03	0.42
1:B:90:LEU:HG	1:B:118:ASP:C	2.45	0.42
1:B:105:PRO:O	1:B:106:LYS:HD3	2.19	0.42
1:B:117:ALA:C	1:B:118:ASP:OD1	2.63	0.42
1:B:194:LEU:HD22	1:B:194:LEU:HA	1.90	0.42
2:C:184:MET:SD	2:C:303:PHE:HE2	2.43	0.42
2:C:225:ALA:C	2:C:227:LEU:N	2.75	0.42
2:C:274:ARG:NE	2:C:275:TYR:CE1	2.88	0.42
2:C:391:LEU:HD12	2:C:391:LEU:HA	1.84	0.42
2:C:474:VAL:O	2:C:526:PRO:HA	2.20	0.42
2:C:599:GLU:O	2:C:600:ASP:C	2.62	0.42
2:C:816:LYS:HB3	2:C:819:VAL:CG2	2.50	0.42
2:C:1008:ARG:HG2	2:C:1009:SER:N	2.32	0.42
2:C:1075:ASP:OD1	2:C:1076:VAL:N	2.50	0.42
2:C:1091:GLU:OE1	3:D:606:ILE:CG2	2.67	0.42
2:C:1111:ILE:O	2:C:1112:PHE:O	2.37	0.42
3:D:484:PRO:O	3:D:485:SER:C	2.62	0.42
3:D:628:ARG:NH1	3:D:628:ARG:CB	2.83	0.42
3:D:643:GLY:O	3:D:719:VAL:O	2.37	0.42
3:D:691:LEU:HD12	3:D:692:GLU:N	2.35	0.42
3:D:772:PRO:CG	3:D:778:LEU:HD22	2.50	0.42
3:D:1012:PHE:C	3:D:1014:GLU:N	2.76	0.42
3:D:1170:GLU:O	3:D:1173:HIS:HB2	2.20	0.42
3:D:1236:GLN:C	3:D:1237:LEU:HD23	2.45	0.42
3:D:1279:ASP:CA	3:D:1318:ASP:O	2.68	0.42
3:D:1294:PHE:HA	3:D:1302:LYS:O	2.19	0.42
3:D:1433:LYS:CG	3:D:1434:SER:N	2.83	0.42
4:E:3:GLU:HB2	4:E:6:ILE:HG12	2.02	0.42
4:E:27:ALA:C	4:E:29:GLN:N	2.78	0.42
1:A:38:ASN:HA	1:A:178:PHE:CE2	2.55	0.42
1:A:48:ILE:HA	1:A:49:PRO:HD3	1.92	0.42
1:A:208:GLU:HB3	1:A:212:GLN:NE2	2.34	0.42
2:C:5:ARG:HG3	2:C:902:ILE:HG21	2.01	0.42
2:C:384:GLU:O	2:C:388:ARG:HB2	2.20	0.42
2:C:397:GLU:O	2:C:398:THR:C	2.62	0.42
2:C:580:MET:O	2:C:581:THR:HB	2.19	0.42
2:C:709:GLU:O	2:C:710:ILE:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:872:ASN:ND2	2:C:874:LEU:HB3	2.24	0.42
2:C:880:MET:O	2:C:881:ASN:C	2.62	0.42
2:C:981:GLU:CD	2:C:981:GLU:N	2.76	0.42
2:C:1042:ALA:O	3:D:1225:VAL:CG2	2.68	0.42
2:C:1055:ILE:CD1	2:C:1055:ILE:N	2.80	0.42
3:D:496:LEU:O	3:D:500:ARG:HG2	2.20	0.42
3:D:638:LYS:O	3:D:639:LEU:CG	2.66	0.42
3:D:824:ASN:O	3:D:825:ALA:O	2.38	0.42
3:D:856:GLY:O	3:D:857:LEU:HD22	2.20	0.42
3:D:954:ASP:O	3:D:955:ALA:CB	2.68	0.42
3:D:1127:ASP:O	3:D:1128:GLU:C	2.63	0.42
3:D:1148:ARG:NH1	3:D:1191:SER:HB2	2.29	0.42
3:D:1278:ILE:CD1	3:D:1302:LYS:HD3	2.49	0.42
4:E:15:SER:O	4:E:16:LYS:C	2.63	0.42
1:B:94:TRP:NE1	1:B:119:VAL:CG2	2.83	0.41
2:C:59:LYS:O	2:C:61:LYS:HE2	2.20	0.41
2:C:232:GLU:O	2:C:234:ALA:N	2.52	0.41
2:C:292:ARG:C	2:C:294:GLU:N	2.76	0.41
2:C:480:THR:O	2:C:480:THR:HG23	2.20	0.41
2:C:541:SER:O	2:C:545:ASN:ND2	2.53	0.41
2:C:755:LEU:HD11	2:C:825:VAL:CB	2.50	0.41
2:C:768:SER:HB2	2:C:769:PRO:CD	2.36	0.41
2:C:792:VAL:HA	2:C:793:PRO:HD2	1.74	0.41
2:C:813:VAL:CG1	2:C:814:GLU:H	2.05	0.41
3:D:500:ARG:HG3	3:D:1389:PRO:HG3	2.02	0.41
3:D:645:PRO:HG2	3:D:724:GLN:HA	2.02	0.41
3:D:761:ILE:HG22	3:D:762:GLN:N	2.35	0.41
3:D:792:ILE:C	3:D:793:THR:HG23	2.45	0.41
3:D:878:GLY:O	3:D:879:ARG:C	2.63	0.41
3:D:903:ASP:O	3:D:905:PRO:HD3	2.20	0.41
3:D:905:PRO:O	3:D:906:GLN:CB	2.58	0.41
3:D:997:TRP:CE2	3:D:1057:PRO:HG3	2.53	0.41
3:D:1212:MET:C	3:D:1214:ARG:N	2.74	0.41
4:E:38:THR:HG22	4:E:41:GLU:H	1.85	0.41
1:A:15:THR:HG22	1:B:230:SER:H	1.85	0.41
1:A:30:ARG:HH22	1:A:188:ARG:HB3	1.84	0.41
1:B:128:ILE:O	1:B:129:ALA:HB2	2.20	0.41
2:C:20:GLU:OE2	2:C:461:VAL:HG22	2.20	0.41
2:C:54:ILE:CD1	2:C:355:VAL:HG13	2.50	0.41
2:C:257:LEU:HD22	2:C:263:ASP:HB3	2.02	0.41
2:C:401:LEU:HD21	2:C:543:ASN:HD22	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:504:GLU:O	2:C:505:GLY:C	2.62	0.41
2:C:591:SER:C	2:C:593:ALA:N	2.78	0.41
2:C:677:MET:CA	2:C:873:PRO:HD3	2.49	0.41
2:C:841:ASN:ND2	2:C:843:HIS:H	2.17	0.41
2:C:910:THR:O	2:C:913:GLU:N	2.53	0.41
3:D:92:HIS:O	3:D:94:GLU:N	2.53	0.41
3:D:789:LEU:HD23	3:D:789:LEU:HA	1.69	0.41
3:D:853:VAL:HG22	3:D:858:LEU:HB2	2.02	0.41
3:D:896:ALA:HA	3:D:899:LEU:CD2	2.50	0.41
3:D:1263:LEU:C	3:D:1265:GLU:H	2.27	0.41
3:D:1337:LEU:HB2	3:D:1345:VAL:HG21	2.02	0.41
3:D:1494:LYS:C	3:D:1496:ILE:N	2.78	0.41
4:E:48:MET:HB3	4:E:55:TYR:O	2.20	0.41
1:A:58:ILE:HG21	1:A:68:ILE:HD11	2.02	0.41
1:A:64:GLU:CG	1:A:65:PHE:H	2.33	0.41
1:A:64:GLU:OE2	1:A:76:VAL:HG13	2.20	0.41
1:A:78:ILE:O	1:A:79:ILE:C	2.62	0.41
1:A:109:ARG:HB2	1:A:125:ASP:C	2.45	0.41
1:B:163:ALA:O	1:B:164:ILE:C	2.63	0.41
2:C:69:LEU:HB3	2:C:70:GLU:H	1.54	0.41
2:C:184:MET:HB3	2:C:191:PHE:CE2	2.55	0.41
2:C:202:TYR:O	2:C:203:ASP:CB	2.68	0.41
2:C:336:VAL:O	2:C:337:GLY:C	2.62	0.41
2:C:614:ARG:NH2	2:C:623:HIS:CE1	2.88	0.41
2:C:722:ILE:HA	2:C:758:ARG:CB	2.48	0.41
2:C:815:LEU:O	2:C:816:LYS:C	2.62	0.41
2:C:903:SER:CB	2:C:909:ALA:HB2	2.48	0.41
2:C:1071:ILE:O	3:D:659:LYS:HG2	2.20	0.41
3:D:563:PRO:O	3:D:564:GLU:HB3	2.20	0.41
3:D:575:GLN:O	3:D:578:VAL:HB	2.20	0.41
3:D:599:PRO:C	3:D:600:LEU:HD23	2.45	0.41
3:D:636:GLN:HB3	3:D:641:GLN:HB2	2.01	0.41
3:D:655:PRO:C	3:D:657:LEU:N	2.77	0.41
3:D:760:ARG:HH21	4:E:3:GLU:CD	2.28	0.41
3:D:953:ASP:O	3:D:953:ASP:OD1	2.37	0.41
3:D:1141:ILE:O	3:D:1145:LEU:N	2.46	0.41
4:E:82:GLU:HA	4:E:85:LEU:HB3	2.02	0.41
1:A:18:ASP:O	1:A:19:HIS:CB	2.68	0.41
1:A:99:ILE:HG23	1:A:138:TYR:CE1	2.55	0.41
1:A:103:GLU:N	1:A:106:LYS:HE2	2.34	0.41
1:B:142:ARG:O	1:B:143:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:32:ALA:CB	2:C:73:ILE:HD13	2.43	0.41
2:C:44:ILE:H	2:C:44:ILE:CD1	2.28	0.41
2:C:103:LYS:HD3	2:C:103:LYS:HA	1.87	0.41
2:C:159:ILE:CD1	2:C:310:LEU:HB2	2.50	0.41
2:C:224:GLU:O	2:C:226:VAL:N	2.53	0.41
2:C:233:GLU:OE2	2:C:237:ARG:NE	2.52	0.41
2:C:367:LEU:CD1	2:C:372:LEU:HG	2.50	0.41
2:C:468:ARG:H	2:C:468:ARG:HD3	1.80	0.41
2:C:1054:THR:HG21	2:C:1079:PRO:HB3	2.02	0.41
3:D:643:GLY:HA3	3:D:727:GLN:HB2	2.01	0.41
3:D:794:GLN:O	3:D:795:VAL:HB	2.21	0.41
3:D:841:PHE:O	3:D:845:ASN:N	2.44	0.41
3:D:855:HIS:O	3:D:857:LEU:N	2.53	0.41
3:D:899:LEU:N	3:D:899:LEU:HD13	2.35	0.41
3:D:1156:ALA:CB	3:D:1183:GLU:HB3	2.48	0.41
3:D:1252:ASP:HB2	3:D:1270:LYS:HZ3	1.83	0.41
3:D:1281:VAL:CG1	3:D:1282:VAL:H	2.32	0.41
4:E:64:ALA:O	4:E:65:MET:C	2.62	0.41
4:E:81:PRO:O	4:E:82:GLU:C	2.62	0.41
1:A:41:ARG:HD2	1:A:41:ARG:O	2.20	0.41
1:A:168:ALA:O	1:A:169:ILE:HD13	2.20	0.41
1:B:64:GLU:HG3	1:B:79:ILE:HG13	2.02	0.41
2:C:26:TYR:HB2	2:C:121:MET:HE1	2.01	0.41
2:C:129:ILE:HD11	2:C:386:PHE:CD2	2.56	0.41
2:C:142:ARG:NE	2:C:324:ASP:HA	2.23	0.41
2:C:148:PHE:CE2	2:C:159:ILE:HG23	2.56	0.41
2:C:149:THR:HG23	2:C:323:ASP:HA	2.03	0.41
2:C:268:ASP:C	2:C:270:GLY:N	2.78	0.41
2:C:550:LEU:O	2:C:551:GLU:C	2.62	0.41
2:C:554:ASP:OD1	2:C:554:ASP:C	2.63	0.41
2:C:703:ILE:HG13	2:C:830:LYS:HG3	2.01	0.41
2:C:743:VAL:CG2	2:C:755:LEU:O	2.66	0.41
2:C:758:ARG:NH1	2:C:758:ARG:CG	2.83	0.41
2:C:1052:MET:C	2:C:1053:LEU:HD22	2.46	0.41
3:D:492:ALA:O	3:D:495:ARG:N	2.54	0.41
3:D:516:ALA:O	3:D:517:VAL:HG13	2.21	0.41
3:D:590:PRO:HA	3:D:600:LEU:CD2	2.50	0.41
3:D:666:PHE:O	3:D:667:ALA:O	2.38	0.41
3:D:1015:ASN:O	3:D:1016:TYR:CD2	2.73	0.41
3:D:1135:LEU:HD23	3:D:1135:LEU:N	2.29	0.41
1:B:53:VAL:HA	1:B:143:VAL:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:72:LYS:HB3	1:B:130:THR:HB	2.02	0.41
1:B:88:ARG:NH2	1:B:122:MET:HE2	2.35	0.41
1:B:126:LEU:O	1:B:127:HIS:C	2.63	0.41
2:C:200:LEU:HD13	2:C:300:ASP:HB3	2.03	0.41
2:C:284:GLY:O	2:C:285:LEU:HB2	2.19	0.41
2:C:394:PHE:HB3	2:C:395:LYS:H	1.52	0.41
2:C:577:PRO:HA	2:C:671:ASN:ND2	2.36	0.41
2:C:750:LYS:HE2	2:C:753:ASP:OD1	2.21	0.41
2:C:821:GLU:C	2:C:822:VAL:HG23	2.45	0.41
3:D:126:VAL:C	3:D:456:MET:HG3	2.45	0.41
3:D:458:ALA:C	3:D:460:ALA:N	2.77	0.41
3:D:678:GLU:C	3:D:680:GLN:N	2.77	0.41
3:D:685:ASP:C	3:D:687:VAL:H	2.29	0.41
3:D:930:LEU:HD11	3:D:934:LEU:HD11	2.02	0.41
3:D:1119:ILE:N	3:D:1119:ILE:CD1	2.81	0.41
1:A:181:GLU:OE2	2:C:934:PHE:CD2	2.73	0.41
1:B:94:TRP:HE1	1:B:119:VAL:HG21	1.84	0.41
1:B:149:TYR:HE1	1:B:169:ILE:CG2	2.17	0.41
1:B:205:THR:OG1	1:B:208:GLU:HB2	2.21	0.41
2:C:278:GLU:HG3	2:C:284:GLY:N	2.35	0.41
2:C:644:ARG:C	2:C:645:VAL:HG23	2.46	0.41
2:C:755:LEU:HD11	2:C:825:VAL:HG11	2.03	0.41
2:C:840:ALA:CA	2:C:846:LYS:HA	2.50	0.41
2:C:1105:LYS:C	2:C:1107:ASN:H	2.28	0.41
3:D:590:PRO:CA	3:D:600:LEU:HD21	2.50	0.41
3:D:1120:SER:HB3	3:D:1186:GLU:HB3	2.03	0.41
3:D:1458:ASP:OD1	3:D:1458:ASP:O	2.39	0.41
3:D:1479:SER:C	3:D:1481:PHE:H	2.27	0.41
4:E:72:ARG:C	4:E:73:LEU:HG	2.45	0.41
1:B:23:PHE:C	1:B:24:VAL:CG2	2.94	0.41
1:B:60:ASP:O	1:B:61:VAL:C	2.63	0.41
1:B:94:TRP:NE1	1:B:96:THR:HG23	2.36	0.41
2:C:31:GLN:CD	2:C:39:ARG:HB3	2.45	0.41
2:C:54:ILE:CD1	2:C:359:MET:HE2	2.51	0.41
2:C:106:GLY:C	2:C:107:LEU:HD23	2.46	0.41
2:C:271:GLU:O	2:C:272:ALA:CB	2.68	0.41
2:C:285:LEU:HD11	2:C:302:VAL:HG22	2.01	0.41
2:C:555:ALA:O	2:C:558:ALA:HB3	2.21	0.41
2:C:566:THR:C	2:C:568:ALA:N	2.79	0.41
2:C:610:ARG:O	2:C:612:ALA:N	2.53	0.41
2:C:649:VAL:CB	2:C:653:ASP:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:684:PHE:O	2:C:686:ASP:N	2.54	0.41
2:C:701:THR:HA	2:C:832:LYS:HA	2.03	0.41
2:C:764:GLU:H	2:C:764:GLU:CD	2.28	0.41
2:C:778:PHE:O	2:C:779:GLY:C	2.62	0.41
2:C:836:GLY:C	2:C:848:VAL:CG2	2.92	0.41
2:C:845:ASN:HD21	2:C:876:VAL:CG1	2.33	0.41
2:C:918:LEU:O	2:C:919:ALA:C	2.63	0.41
3:D:14:SER:C	3:D:16:GLU:N	2.78	0.41
3:D:630:VAL:HG12	3:D:631:ILE:O	2.20	0.41
3:D:633:VAL:N	3:D:740:PHE:CE2	2.89	0.41
3:D:772:PRO:HD2	3:D:777:PRO:HA	2.03	0.41
3:D:905:PRO:C	3:D:906:GLN:OE1	2.64	0.41
3:D:1102:VAL:HG22	3:D:1425:VAL:O	2.21	0.41
3:D:1119:ILE:HG22	3:D:1120:SER:N	2.35	0.41
3:D:1146:TYR:HD2	3:D:1147:GLY:H	1.68	0.41
3:D:1479:SER:O	3:D:1481:PHE:N	2.54	0.41
4:E:6:ILE:HG22	4:E:7:ASP:N	2.36	0.41
1:A:11:PHE:HZ	1:A:210:LEU:HD21	1.86	0.41
1:A:19:HIS:H	1:A:206:PRO:CD	2.33	0.41
1:A:142:ARG:NH1	1:A:144:ASP:CG	2.78	0.41
1:A:151:PRO:O	1:A:152:ALA:C	2.64	0.41
1:A:175:ARG:NH2	1:A:199:TRP:CH2	2.89	0.41
1:B:40:LEU:N	1:B:40:LEU:CD2	2.84	0.41
1:B:80:LEU:HD13	3:D:839:LEU:HA	2.03	0.41
1:B:108:VAL:HB	1:B:129:ALA:O	2.21	0.41
2:C:11:GLU:HB3	2:C:534:VAL:HG12	2.03	0.41
2:C:15:LEU:CD1	2:C:461:VAL:HG11	2.50	0.41
2:C:56:GLU:O	2:C:57:GLY:C	2.64	0.41
2:C:58:ASP:C	2:C:61:LYS:HG2	2.45	0.41
2:C:95:TYR:HB3	2:C:113:VAL:O	2.21	0.41
2:C:186:VAL:O	2:C:187:ASN:C	2.63	0.41
2:C:268:ASP:C	2:C:270:GLY:H	2.27	0.41
2:C:332:ARG:NH1	2:C:465:GLY:O	2.51	0.41
2:C:547:ILE:O	2:C:547:ILE:HG22	2.20	0.41
2:C:576:ALA:HB3	2:C:900:ARG:HH11	1.86	0.41
2:C:613:VAL:HG21	2:C:619:ARG:CD	2.50	0.41
2:C:635:THR:HG23	2:C:635:THR:O	2.20	0.41
2:C:654:LEU:HD22	2:C:663:GLU:C	2.46	0.41
2:C:744:ARG:O	2:C:747:ALA:CB	2.69	0.41
2:C:845:ASN:HD22	2:C:884:GLN:CD	2.27	0.41
2:C:915:LYS:CD	2:C:968:ASP:HB3	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:994:ILE:HD13	2:C:994:ILE:N	2.36	0.41
2:C:1012:PRO:HB3	2:C:1022:GLY:C	2.45	0.41
2:C:1114:GLY:O	2:C:1115:LEU:HB2	2.20	0.41
3:D:8:VAL:O	3:D:1435:TRP:CZ3	2.74	0.41
3:D:127:LEU:HA	3:D:456:MET:CB	2.38	0.41
3:D:633:VAL:HA	3:D:740:PHE:CZ	2.56	0.41
3:D:663:GLU:O	3:D:665:ALA:N	2.53	0.41
3:D:976:GLU:OE1	3:D:989:ARG:NH2	2.54	0.41
3:D:1212:MET:O	3:D:1213:ALA:HB3	2.20	0.41
3:D:1224:VAL:C	3:D:1226:ALA:N	2.79	0.41
3:D:1282:VAL:HG22	3:D:1315:LYS:CB	2.51	0.41
3:D:1405:ASN:C	3:D:1407:ARG:H	2.28	0.41
3:D:1438:ALA:O	3:D:1441:PHE:HB2	2.21	0.41
3:D:1494:LYS:O	3:D:1496:ILE:N	2.53	0.41
4:E:59:ASN:O	4:E:60:ALA:C	2.63	0.41
4:E:92:LEU:HD12	4:E:92:LEU:N	2.36	0.41
1:A:41:ARG:HD3	1:A:176:VAL:O	2.21	0.41
1:A:80:LEU:HA	1:A:83:LYS:HE3	2.03	0.41
1:A:89:PHE:CB	1:A:145:ARG:NH2	2.84	0.41
1:B:88:ARG:CZ	1:B:122:MET:HE2	2.50	0.41
2:C:73:ILE:HD12	2:C:94:LEU:HD13	2.03	0.41
2:C:363:SER:HB3	2:C:366:THR:CB	2.49	0.41
2:C:378:LEU:HD12	2:C:378:LEU:N	2.36	0.41
2:C:564:MET:C	2:C:566:THR:H	2.30	0.41
2:C:642:ARG:HB3	2:C:656:ALA:H	1.86	0.41
2:C:870:ILE:HA	2:C:870:ILE:HD13	1.80	0.41
2:C:892:LEU:HA	2:C:895:TYR:CB	2.50	0.41
2:C:915:LYS:NZ	3:D:952:ILE:HD11	2.36	0.41
3:D:482:LYS:HD3	3:D:492:ALA:CB	2.51	0.41
3:D:642:CYS:HB2	3:D:716:PHE:HB2	2.03	0.41
3:D:924:MET:N	4:E:7:ASP:OD2	2.54	0.41
3:D:1066:LEU:O	3:D:1066:LEU:HD12	2.21	0.41
3:D:1334:HIS:CE1	3:D:1422:LEU:HB3	2.55	0.41
3:D:1367:LYS:O	3:D:1369:ILE:N	2.54	0.41
4:E:34:ARG:O	4:E:35:PHE:CB	2.69	0.41
1:A:12:THR:O	1:A:13:ALA:HB2	2.21	0.40
1:A:21:GLY:O	1:A:23:PHE:CE2	2.75	0.40
1:B:29:GLU:OE1	1:B:188:ARG:NH2	2.54	0.40
1:B:78:ILE:CD1	1:B:129:ALA:HB2	2.51	0.40
2:C:181:VAL:CG1	2:C:182:VAL:H	2.30	0.40
2:C:252:LYS:NZ	2:C:293:PHE:H	2.18	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:467:ILE:CG2	2:C:484:VAL:HG21	2.47	0.40
2:C:578:VAL:HG23	2:C:671:ASN:ND2	2.36	0.40
2:C:603:VAL:HG22	2:C:646:GLY:O	2.21	0.40
2:C:648:ARG:NH1	2:C:648:ARG:CG	2.82	0.40
2:C:969:LEU:HD12	3:D:950:ILE:HG21	2.03	0.40
2:C:1052:MET:C	2:C:1053:LEU:HD13	2.44	0.40
2:C:1052:MET:HG3	3:D:623:VAL:HG22	2.02	0.40
3:D:108:VAL:C	3:D:110:SER:N	2.77	0.40
3:D:521:PRO:O	3:D:523:ASP:N	2.53	0.40
3:D:603:LEU:HA	3:D:606:ILE:CD1	2.50	0.40
3:D:653:PHE:O	3:D:656:PHE:HB2	2.21	0.40
3:D:679:ARG:C	3:D:680:GLN:HG2	2.47	0.40
3:D:721:VAL:CG1	3:D:722:GLU:N	2.61	0.40
3:D:928:ALA:O	3:D:931:LEU:HB2	2.21	0.40
3:D:961:LYS:NZ	3:D:1042:MET:HB3	2.36	0.40
3:D:1097:ARG:NH1	3:D:1097:ARG:CG	2.81	0.40
3:D:1405:ASN:C	3:D:1407:ARG:N	2.78	0.40
1:A:142:ARG:HD2	1:A:158:LYS:HE3	2.01	0.40
1:B:56:VAL:HG21	1:B:82:LEU:CD2	2.51	0.40
1:B:71:VAL:O	1:B:71:VAL:HG12	2.20	0.40
2:C:200:LEU:HD22	2:C:290:LEU:HD11	2.03	0.40
2:C:266:ARG:NE	2:C:268:ASP:HA	2.36	0.40
2:C:707:ARG:HB3	2:C:826:PHE:HD1	1.87	0.40
2:C:727:PRO:C	2:C:729:LEU:H	2.29	0.40
2:C:750:LYS:HG2	2:C:753:ASP:OD2	2.21	0.40
2:C:876:VAL:HA	2:C:880:MET:CE	2.50	0.40
2:C:1099:VAL:HA	3:D:10:ILE:HA	2.02	0.40
2:C:1106:ASP:OD2	3:D:1457:LYS:NZ	2.55	0.40
3:D:115:LEU:C	3:D:117:ASP:N	2.79	0.40
3:D:543:LEU:HB3	3:D:581:VAL:CG2	2.51	0.40
3:D:747:VAL:O	3:D:748:HIS:C	2.65	0.40
3:D:879:ARG:HD2	3:D:904:VAL:N	2.36	0.40
3:D:1012:PHE:O	3:D:1014:GLU:N	2.54	0.40
3:D:1032:ASN:O	3:D:1032:ASN:CG	2.63	0.40
3:D:1062:PHE:HD1	3:D:1062:PHE:HA	1.76	0.40
3:D:1175:LEU:HD23	3:D:1175:LEU:HA	1.92	0.40
3:D:1337:LEU:HD22	3:D:1422:LEU:HD12	2.03	0.40
1:A:21:GLY:O	1:A:23:PHE:CD2	2.75	0.40
1:A:63:HIS:CD2	1:A:164:ILE:HG22	2.56	0.40
1:A:90:LEU:HD21	1:A:120:GLU:OE2	2.22	0.40
1:A:148:GLY:O	1:A:170:PHE:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:180:VAL:O	1:A:180:VAL:HG12	2.22	0.40
1:B:20:TYR:HE2	1:B:197:ARG:HB3	1.86	0.40
2:C:142:ARG:CZ	2:C:147:TYR:HE1	2.35	0.40
2:C:187:ASN:OD1	2:C:188:LYS:N	2.46	0.40
2:C:198:ARG:C	2:C:198:ARG:HD3	2.46	0.40
2:C:427:VAL:C	2:C:429:ASP:N	2.79	0.40
2:C:536:PRO:O	2:C:538:GLN:HG2	2.22	0.40
2:C:552:HIS:NE2	2:C:886:LEU:CD1	2.82	0.40
2:C:605:LYS:CG	2:C:607:ASP:H	2.20	0.40
2:C:609:THR:O	2:C:609:THR:CG2	2.70	0.40
2:C:756:VAL:H	2:C:790:LEU:HB3	1.87	0.40
2:C:811:PRO:O	2:C:813:VAL:N	2.54	0.40
2:C:813:VAL:HG12	2:C:815:LEU:CD1	2.51	0.40
2:C:837:ASP:HB3	2:C:1000:MET:HA	2.03	0.40
2:C:839:LEU:HD12	2:C:994:ILE:HG21	2.01	0.40
2:C:875:GLY:O	2:C:877:PRO:N	2.54	0.40
2:C:905:VAL:O	2:C:906:PHE:HB2	2.21	0.40
2:C:998:TYR:O	2:C:998:TYR:CG	2.74	0.40
3:D:491:LYS:O	3:D:492:ALA:C	2.63	0.40
3:D:645:PRO:HD2	3:D:648:MET:HG2	2.03	0.40
3:D:767:HIS:HE1	4:E:2:ALA:HB1	1.84	0.40
3:D:831:GLY:C	3:D:833:GLU:N	2.79	0.40
3:D:958:PRO:C	3:D:960:GLU:N	2.79	0.40
3:D:1006:GLN:O	3:D:1010:ASN:HB3	2.22	0.40
3:D:1102:VAL:HG11	3:D:1425:VAL:HG22	2.03	0.40
3:D:1197:THR:O	3:D:1199:TYR:N	2.54	0.40
3:D:1282:VAL:HG13	3:D:1314:VAL:O	2.21	0.40
3:D:1403:ALA:HB1	3:D:1416:VAL:HG21	2.03	0.40
3:D:1403:ALA:CB	3:D:1416:VAL:HG11	2.52	0.40
4:E:5:GLY:O	4:E:9:LEU:HG	2.21	0.40
1:A:64:GLU:HG3	1:A:65:PHE:H	1.86	0.40
1:A:77:GLU:O	1:A:80:LEU:N	2.55	0.40
1:A:91:ASP:CG	1:A:92:PRO:CD	2.94	0.40
1:A:179:GLN:HG3	2:C:934:PHE:CG	2.55	0.40
1:A:211:ASN:O	1:A:212:GLN:C	2.63	0.40
1:A:216:ILE:HG22	1:A:220:HIS:HD2	1.86	0.40
1:B:30:ARG:CZ	2:C:854:PRO:HB3	2.52	0.40
1:B:40:LEU:CD2	1:B:40:LEU:H	2.34	0.40
1:B:40:LEU:HD12	1:B:214:VAL:HG22	2.04	0.40
1:B:178:PHE:O	1:B:178:PHE:CG	2.74	0.40
1:B:194:LEU:O	1:B:195:THR:OG1	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:171:TRP:HA	2:C:171:TRP:CE3	2.57	0.40
2:C:348:LEU:O	2:C:349:ALA:C	2.65	0.40
2:C:580:MET:HB3	2:C:584:GLU:OE1	2.22	0.40
2:C:629:ALA:O	2:C:705:ILE:HG12	2.21	0.40
2:C:684:PHE:HB3	3:D:633:VAL:HG21	2.03	0.40
2:C:686:ASP:OD1	2:C:686:ASP:N	2.54	0.40
2:C:729:LEU:O	2:C:734:LEU:HG	2.20	0.40
2:C:760:SER:N	2:C:785:VAL:HG22	2.37	0.40
2:C:1103:ASP:O	2:C:1104:GLU:C	2.65	0.40
2:C:1107:ASN:OD1	2:C:1107:ASN:O	2.39	0.40
3:D:564:GLU:C	3:D:566:ILE:N	2.75	0.40
3:D:586:ARG:C	3:D:588:GLY:N	2.79	0.40
3:D:806:PHE:H	3:D:827:ILE:CA	2.31	0.40
3:D:879:ARG:HH11	3:D:904:VAL:CA	2.17	0.40
3:D:964:TYR:HE2	3:D:1003:LYS:HB3	1.86	0.40
3:D:976:GLU:CD	3:D:989:ARG:NH2	2.79	0.40
3:D:990:TYR:CE1	3:D:994:ILE:HD11	2.56	0.40
3:D:1458:ASP:OD1	3:D:1460:LEU:HA	2.22	0.40
1:A:109:ARG:HA	1:A:128:ILE:H	1.87	0.40
1:A:159:ASP:O	1:A:160:ARG:C	2.64	0.40
2:C:45:GLN:O	2:C:46:ALA:C	2.65	0.40
2:C:127:PHE:CE2	2:C:386:PHE:CE2	3.10	0.40
2:C:196:LEU:CD1	2:C:200:LEU:HD21	2.50	0.40
2:C:508:ILE:HA	2:C:517:ARG:O	2.21	0.40
2:C:612:ALA:O	2:C:613:VAL:O	2.40	0.40
2:C:944:LEU:C	2:C:946:ARG:N	2.75	0.40
2:C:1108:PRO:HB3	3:D:3:LYS:NZ	2.37	0.40
3:D:806:PHE:N	3:D:827:ILE:HA	2.30	0.40
3:D:934:LEU:HA	3:D:934:LEU:HD23	1.86	0.40
3:D:1135:LEU:O	3:D:1135:LEU:HG	2.21	0.40
3:D:1156:ALA:HB1	3:D:1183:GLU:CB	2.46	0.40
3:D:1283:ARG:CG	3:D:1283:ARG:NH1	2.82	0.40
3:D:1443:ASN:OD1	3:D:1443:ASN:N	2.54	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	221/313 (71%)	98 (44%)	68 (31%)	55 (25%)	0	0
1	B	227/313 (72%)	109 (48%)	61 (27%)	57 (25%)	0	0
2	C	1111/1119 (99%)	559 (50%)	300 (27%)	252 (23%)	0	0
3	D	1127/1265 (89%)	543 (48%)	319 (28%)	265 (24%)	0	0
4	E	96/99 (97%)	49 (51%)	22 (23%)	25 (26%)	0	0
All	All	2782/3109 (90%)	1358 (49%)	770 (28%)	654 (24%)	0	0

All (654) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	26	GLU
1	A	59	GLU
1	A	64	GLU
1	A	73	GLU
1	A	75	VAL
1	A	108	VAL
1	A	110	ALA
1	A	114	THR
1	A	143	VAL
1	A	157	ILE
1	A	160	ARG
1	A	161	ILE
1	A	195	THR
1	A	200	THR
1	A	223	TYR
1	B	15	THR
1	B	26	GLU
1	B	47	SER
1	B	59	GLU
1	B	61	VAL
1	B	63	HIS

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Mol	Chain	Res	Type
1	B	66	SER
1	B	91	ASP
1	B	92	PRO
1	B	94	TRP
1	B	95	ARG
1	B	118	ASP
1	B	157	ILE
1	B	160	ARG
1	B	187	GLN
1	B	189	THR
1	B	194	LEU
1	B	195	THR
2	C	10	ARG
2	C	18	LEU
2	C	31	GLN
2	C	32	ALA
2	C	42	VAL
2	C	81	ASP
2	C	105	THR
2	C	149	THR
2	C	153	ALA
2	C	155	PRO
2	C	164	PRO
2	C	181	VAL
2	C	182	VAL
2	C	202	TYR
2	C	210	GLU
2	C	216	ASP
2	C	258	PHE
2	C	261	LEU
2	C	271	GLU
2	C	283	VAL
2	C	322	VAL
2	C	326	ASP
2	C	360	VAL
2	C	361	MET
2	C	375	SER
2	C	388	ARG
2	C	394	PHE
2	C	395	LYS
2	C	402	SER
2	C	425	PHE

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Mol	Chain	Res	Type
2	C	426	ASP
2	C	431	HIS
2	C	438	ILE
2	C	440	PRO
2	C	444	PRO
2	C	449	ILE
2	C	457	ALA
2	C	458	TYR
2	C	461	VAL
2	C	462	ASP
2	C	467	ILE
2	C	468	ARG
2	C	480	THR
2	C	488	ALA
2	C	495	THR
2	C	502	PRO
2	C	513	VAL
2	C	516	ARG
2	C	517	ARG
2	C	520	GLU
2	C	524	VAL
2	C	526	PRO
2	C	529	VAL
2	C	537	LYS
2	C	564	MET
2	C	568	ALA
2	C	569	VAL
2	C	573	ARG
2	C	575	GLN
2	C	600	ASP
2	C	605	LYS
2	C	613	VAL
2	C	643	VAL
2	C	648	ARG
2	C	657	ASP
2	C	659	PRO
2	C	663	GLU
2	C	677	MET
2	C	680	ASP
2	C	715	THR
2	C	731	GLU
2	C	732	ALA

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Mol	Chain	Res	Type
2	C	734	LEU
2	C	762	LYS
2	C	764	GLU
2	C	777	ILE
2	C	796	GLU
2	C	800	VAL
2	C	811	PRO
2	C	814	GLU
2	C	837	ASP
2	C	840	ALA
2	C	876	VAL
2	C	881	ASN
2	C	907	ASP
2	C	921	ALA
2	C	936	VAL
2	C	963	LEU
2	C	969	LEU
2	C	972	VAL
2	C	977	GLY
2	C	998	TYR
2	C	1012	PRO
2	C	1025	ALA
2	C	1043	TYR
2	C	1055	ILE
2	C	1059	ASP
2	C	1109	VAL
2	C	1110	ASP
2	C	1112	PHE
3	D	72	VAL
3	D	76	CYS
3	D	78	VAL
3	D	81	THR
3	D	84	ILE
3	D	88	TYR
3	D	93	ILE
3	D	96	ALA
3	D	98	PRO
3	D	99	ALA
3	D	104	PHE
3	D	112	ILE
3	D	113	GLY
3	D	124	GLU

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Mol	Chain	Res	Type
3	D	126	VAL
3	D	132	TYR
3	D	133	ILE
3	D	137	PRO
3	D	453	ASP
3	D	468	LEU
3	D	483	HIS
3	D	486	ARG
3	D	491	LYS
3	D	509	PRO
3	D	511	TRP
3	D	512	MET
3	D	515	GLU
3	D	539	ASP
3	D	582	ILE
3	D	583	ASP
3	D	587	ARG
3	D	602	SER
3	D	617	ASN
3	D	625	TYR
3	D	658	LEU
3	D	705	ALA
3	D	709	HIS
3	D	725	SER
3	D	748	HIS
3	D	753	SER
3	D	773	ALA
3	D	774	SER
3	D	783	ARG
3	D	795	VAL
3	D	798	GLU
3	D	800	LYS
3	D	802	ALA
3	D	817	GLU
3	D	828	VAL
3	D	830	ALA
3	D	840	LYS
3	D	859	ASP
3	D	869	LEU
3	D	875	THR
3	D	892	ASP
3	D	902	MET

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Mol	Chain	Res	Type
3	D	953	ASP
3	D	1016	TYR
3	D	1029	ALA
3	D	1032	ASN
3	D	1053	THR
3	D	1080	LYS
3	D	1110	GLU
3	D	1112	ASP
3	D	1115	THR
3	D	1129	VAL
3	D	1138	ARG
3	D	1197	THR
3	D	1204	LYS
3	D	1207	GLY
3	D	1208	TYR
3	D	1268	ARG
3	D	1280	GLY
3	D	1282	VAL
3	D	1313	LEU
3	D	1314	VAL
3	D	1316	ASP
3	D	1318	ASP
3	D	1321	GLU
3	D	1323	GLY
3	D	1324	GLN
3	D	1330	ALA
3	D	1331	ILE
3	D	1340	LYS
3	D	1345	VAL
3	D	1355	LYS
3	D	1365	HIS
3	D	1443	ASN
3	D	1453	ILE
3	D	1456	LYS
3	D	1489	ASP
4	E	2	ALA
4	E	12	MET
4	E	30	LEU
4	E	38	THR
4	E	42	PRO
4	E	51	LEU
4	E	55	TYR

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Mol	Chain	Res	Type
4	E	56	ASP
4	E	72	ARG
4	E	94	PRO
4	E	95	THR
1	A	11	PHE
1	A	13	ALA
1	A	14	THR
1	A	19	HIS
1	A	20	TYR
1	A	25	LEU
1	A	30	ARG
1	A	47	SER
1	A	78	ILE
1	A	85	LEU
1	A	94	TRP
1	A	104	GLY
1	A	112	ASP
1	A	124	PRO
1	A	127	HIS
1	A	135	GLY
1	A	142	ARG
1	A	152	ALA
1	A	153	GLU
1	A	194	LEU
1	B	5	LYS
1	B	18	ASP
1	B	35	THR
1	B	53	VAL
1	B	62	LEU
1	B	90	LEU
1	B	112	ASP
1	B	117	ALA
1	B	125	ASP
1	B	136	LYS
1	B	137	LEU
1	B	158	LYS
2	C	23	VAL
2	C	33	ASP
2	C	36	PRO
2	C	56	GLU
2	C	66	LEU
2	C	112	GLU

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Mol	Chain	Res	Type
2	C	166	PRO
2	C	168	ARG
2	C	223	ASP
2	C	232	GLU
2	C	266	ARG
2	C	273	GLY
2	C	295	ASP
2	C	309	TYR
2	C	315	ALA
2	C	319	GLY
2	C	336	VAL
2	C	345	ARG
2	C	362	GLY
2	C	386	PHE
2	C	403	SER
2	C	424	GLY
2	C	435	TYR
2	C	439	CYS
2	C	463	ALA
2	C	498	GLN
2	C	505	GLY
2	C	527	GLU
2	C	555	ALA
2	C	582	GLY
2	C	603	VAL
2	C	629	ALA
2	C	700	TYR
2	C	713	ARG
2	C	716	LYS
2	C	729	LEU
2	C	770	GLU
2	C	788	THR
2	C	791	ARG
2	C	812	GLY
2	C	813	VAL
2	C	822	VAL
2	C	857	ASP
2	C	875	GLY
2	C	920	GLU
2	C	970	GLY
2	C	988	VAL
2	C	993	PHE

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Mol	Chain	Res	Type
2	C	1033	GLY
2	C	1057	SER
2	C	1080	SER
2	C	1096	ALA
3	D	22	SER
3	D	26	VAL
3	D	29	PRO
3	D	82	ARG
3	D	85	VAL
3	D	95	LEU
3	D	125	GLN
3	D	129	PHE
3	D	136	ASP
3	D	141	VAL
3	D	142	LEU
3	D	143	ASP
3	D	454	ALA
3	D	466	LYS
3	D	470	LEU
3	D	503	LEU
3	D	505	SER
3	D	507	ASN
3	D	520	LEU
3	D	549	ASN
3	D	584	ASN
3	D	588	GLY
3	D	590	PRO
3	D	613	ARG
3	D	629	SER
3	D	636	GLN
3	D	638	LYS
3	D	680	GLN
3	D	682	ASP
3	D	686	GLU
3	D	711	LEU
3	D	730	PRO
3	D	761	ILE
3	D	784	ASP
3	D	803	GLY
3	D	809	PRO
3	D	816	TYR
3	D	823	LEU

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Mol	Chain	Res	Type
3	D	825	ALA
3	D	827	ILE
3	D	838	ARG
3	D	856	GLY
3	D	861	GLN
3	D	893	GLU
3	D	924	MET
3	D	946	GLY
3	D	996	LEU
3	D	1007	ALA
3	D	1066	LEU
3	D	1067	THR
3	D	1095	LEU
3	D	1103	ALA
3	D	1113	CYS
3	D	1198	ARG
3	D	1201	VAL
3	D	1202	CYS
3	D	1221	ALA
3	D	1256	GLY
3	D	1283	ARG
3	D	1307	PRO
3	D	1311	ARG
3	D	1322	ALA
3	D	1341	GLY
3	D	1427	LYS
3	D	1459	GLU
3	D	1462	GLY
4	E	35	PHE
4	E	64	ALA
1	A	18	ASP
1	A	74	ASP
1	A	93	ARG
1	A	117	ALA
1	A	122	MET
1	A	151	PRO
1	A	178	PHE
1	A	181	GLU
1	B	20	TYR
1	B	60	ASP
1	B	126	LEU
1	B	127	HIS

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Mol	Chain	Res	Type
1	B	135	GLY
1	B	188	ARG
1	B	203	SER
1	B	210	LEU
2	C	9	ILE
2	C	38	LYS
2	C	77	PRO
2	C	187	ASN
2	C	204	GLN
2	C	250	LYS
2	C	285	LEU
2	C	302	VAL
2	C	325	ILE
2	C	380	ALA
2	C	385	PHE
2	C	398	THR
2	C	420	ARG
2	C	428	ARG
2	C	432	ARG
2	C	490	GLU
2	C	499	ALA
2	C	528	GLU
2	C	574	ALA
2	C	581	THR
2	C	589	ARG
2	C	606	VAL
2	C	645	VAL
2	C	685	GLU
2	C	699	PHE
2	C	756	VAL
2	C	768	SER
2	C	769	PRO
2	C	793	PRO
2	C	877	PRO
2	C	964	LYS
2	C	992	MET
2	C	1009	SER
2	C	1020	PRO
2	C	1026	GLN
3	D	11	ALA
3	D	94	GLU
3	D	105	VAL

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Mol	Chain	Res	Type
3	D	153	LEU
3	D	485	SER
3	D	502	PHE
3	D	553	ARG
3	D	599	PRO
3	D	667	ALA
3	D	714	GLN
3	D	722	GLU
3	D	768	ASN
3	D	806	PHE
3	D	808	THR
3	D	824	ASN
3	D	862	ASP
3	D	879	ARG
3	D	897	GLN
3	D	969	ASP
3	D	970	ARG
3	D	1009	PHE
3	D	1131	ARG
3	D	1157	LEU
3	D	1288	GLU
3	D	1315	LYS
3	D	1344	ALA
3	D	1368	HIS
3	D	1475	ALA
3	D	1483	ARG
3	D	1485	THR
3	D	1495	ALA
1	A	9	PRO
1	A	15	THR
1	A	16	GLN
1	B	75	VAL
1	B	115	PRO
1	B	155	HIS
1	B	206	PRO
1	B	229	ALA
2	C	14	PRO
2	C	39	ARG
2	C	231	PRO
2	C	264	PRO
2	C	290	LEU
2	C	308	ARG

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Mol	Chain	Res	Type
2	C	367	LEU
2	C	422	ARG
2	C	469	THR
2	C	506	ASP
2	C	532	MET
2	C	545	ASN
2	C	567	GLN
2	C	596	TYR
2	C	602	GLU
2	C	607	ASP
2	C	743	VAL
2	C	973	VAL
2	C	974	LEU
2	C	978	ARG
2	C	1027	PHE
3	D	75	ARG
3	D	100	ALA
3	D	144	GLY
3	D	538	SER
3	D	657	LEU
3	D	696	HIS
3	D	811	GLU
3	D	890	VAL
3	D	904	VAL
3	D	907	GLU
3	D	954	ASP
3	D	960	GLU
3	D	978	ALA
3	D	1019	ASN
3	D	1104	HIS
3	D	1152	ARG
3	D	1254	THR
3	D	1271	ALA
3	D	1354	GLN
3	D	1441	PHE
3	D	1454	ALA
3	D	1477	THR
4	E	4	PRO
4	E	31	LEU
4	E	39	VAL
4	E	60	ALA
4	E	93	TYR

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Mol	Chain	Res	Type
1	A	171	SER
1	A	175	ARG
1	A	188	ARG
1	A	206	PRO
1	B	36	LEU
1	B	119	VAL
1	B	148	GLY
1	B	151	PRO
1	B	162	ASN
1	B	163	ALA
1	B	172	PRO
1	B	230	SER
2	C	116	GLY
2	C	157	ARG
2	C	203	ASP
2	C	205	GLU
2	C	297	GLU
2	C	443	THR
2	C	460	ARG
2	C	483	VAL
2	C	536	PRO
2	C	556	ASN
2	C	619	ARG
2	C	717	LEU
2	C	858	MET
2	C	859	PRO
2	C	938	LYS
2	C	1035	MET
2	C	1113	GLU
3	D	80	VAL
3	D	127	LEU
3	D	154	THR
3	D	490	ALA
3	D	508	ARG
3	D	639	LEU
3	D	640	HIS
3	D	644	LEU
3	D	668	PRO
3	D	731	LEU
3	D	776	GLU
3	D	799	LYS
3	D	857	LEU

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Mol	Chain	Res	Type
3	D	894	LYS
3	D	984	LEU
3	D	1044	GLY
3	D	1045	LEU
3	D	1085	THR
3	D	1267	ARG
3	D	1329	GLY
3	D	1367	LYS
3	D	1389	PRO
3	D	1415	PRO
4	E	41	GLU
4	E	50	THR
4	E	70	THR
1	A	32	PHE
1	B	71	VAL
1	B	111	VAL
1	B	133	GLU
1	B	192	ASP
2	C	113	VAL
2	C	114	PHE
2	C	156	GLY
2	C	234	ALA
2	C	243	ARG
2	C	304	LEU
2	C	390	GLN
2	C	416	GLY
2	C	535	SER
2	C	1099	VAL
2	C	1107	ASN
3	D	134	VAL
3	D	145	VAL
3	D	544	TYR
3	D	654	LYS
3	D	673	ALA
3	D	864	VAL
3	D	1051	GLY
3	D	1156	ALA
3	D	1253	ILE
3	D	1258	PRO
3	D	1276	SER
3	D	1333	PRO
3	D	1420	PRO

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Mol	Chain	Res	Type
3	D	1425	VAL
3	D	1465	GLU
4	E	28	GLN
4	E	96	GLU
1	A	37	GLY
1	A	204	VAL
1	B	134	GLY
1	B	169	ILE
2	C	12	VAL
2	C	75	ASP
2	C	474	VAL
2	C	894	GLY
2	C	1079	PRO
3	D	109	PRO
3	D	484	PRO
3	D	1108	VAL
3	D	1216	VAL
3	D	1260	VAL
3	D	1320	VAL
3	D	1353	ILE
2	C	501	THR
2	C	855	VAL
3	D	147	VAL
3	D	1409	ILE
3	D	1447	VAL
4	E	71	GLY
1	A	198	ILE
2	C	263	ASP
2	C	376	ARG
2	C	604	VAL
2	C	987	ILE
1	A	33	GLY
2	C	1022	GLY
3	D	772	PRO
3	D	821	VAL
3	D	845	ASN
4	E	80	VAL
2	C	867	VAL
2	C	1077	PRO
3	D	10	ILE
3	D	948	ILE
3	D	994	ILE

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Mol	Chain	Res	Type
3	D	1023	VAL
2	C	17	PRO
2	C	244	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	190/271 (70%)	161 (85%)	29 (15%)	3	13
1	B	191/271 (70%)	169 (88%)	22 (12%)	5	21
2	C	869/936 (93%)	740 (85%)	129 (15%)	3	13
3	D	782/1036 (76%)	678 (87%)	104 (13%)	4	17
4	E	67/88 (76%)	63 (94%)	4 (6%)	17	46
All	All	2099/2602 (81%)	1811 (86%)	288 (14%)	3	16

All (288) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	16	GLN
1	A	19	HIS
1	A	20	TYR
1	A	25	LEU
1	A	26	GLU
1	A	30	ARG
1	A	41	ARG
1	A	47	SER
1	A	48	ILE
1	A	57	TYR
1	A	62	LEU
1	A	63	HIS
1	A	71	VAL
1	A	98	LEU
1	A	100	LEU
1	A	112	ASP

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Mol	Chain	Res	Type
1	A	113	PHE
1	A	122	MET
1	A	125	ASP
1	A	131	LEU
1	A	142	ARG
1	A	143	VAL
1	A	192	ASP
1	A	194	LEU
1	A	196	LEU
1	A	201	ASP
1	A	204	VAL
1	A	206	PRO
1	A	221	LEU
1	B	18	ASP
1	B	19	HIS
1	B	26	GLU
1	B	36	LEU
1	B	44	LEU
1	B	47	SER
1	B	56	VAL
1	B	62	LEU
1	B	68	ILE
1	B	86	VAL
1	B	89	PHE
1	B	123	ASN
1	B	125	ASP
1	B	128	ILE
1	B	131	LEU
1	B	133	GLU
1	B	170	PHE
1	B	171	SER
1	B	194	LEU
1	B	196	LEU
1	B	198	ILE
1	B	220	HIS
2	C	13	ILE
2	C	15	LEU
2	C	36	PRO
2	C	53	PRO
2	C	54	ILE
2	C	56	GLU
2	C	67	ASP

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Mol	Chain	Res	Type
2	C	70	GLU
2	C	73	ILE
2	C	75	ASP
2	C	95	TYR
2	C	115	LEU
2	C	118	LEU
2	C	128	ILE
2	C	139	GLN
2	C	142	ARG
2	C	155	PRO
2	C	162	ILE
2	C	171	TRP
2	C	172	ILE
2	C	177	GLU
2	C	182	VAL
2	C	184	MET
2	C	198	ARG
2	C	206	THR
2	C	212	SER
2	C	232	GLU
2	C	258	PHE
2	C	261	LEU
2	C	264	PRO
2	C	267	TYR
2	C	285	LEU
2	C	298	PHE
2	C	304	LEU
2	C	306	THR
2	C	313	LEU
2	C	324	ASP
2	C	335	THR
2	C	344	PHE
2	C	356	ARG
2	C	367	LEU
2	C	372	LEU
2	C	391	LEU
2	C	393	GLN
2	C	399	ASN
2	C	421	GLU
2	C	434	HIS
2	C	438	ILE
2	C	441	VAL

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Mol	Chain	Res	Type
2	C	443	THR
2	C	444	PRO
2	C	455	LEU
2	C	486	MET
2	C	502	PRO
2	C	508	ILE
2	C	526	PRO
2	C	534	VAL
2	C	544	THR
2	C	559	LEU
2	C	565	GLN
2	C	571	LEU
2	C	579	VAL
2	C	580	MET
2	C	584	GLU
2	C	627	ARG
2	C	630	ARG
2	C	633	GLN
2	C	635	THR
2	C	637	PHE
2	C	643	VAL
2	C	672	VAL
2	C	674	VAL
2	C	676	ILE
2	C	686	ASP
2	C	690	ILE
2	C	693	GLU
2	C	698	ASP
2	C	699	PHE
2	C	706	GLU
2	C	710	ILE
2	C	720	GLU
2	C	723	THR
2	C	726	ILE
2	C	739	GLU
2	C	750	LYS
2	C	755	LEU
2	C	758	ARG
2	C	764	GLU
2	C	770	GLU
2	C	796	GLU
2	C	804	LEU

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Mol	Chain	Res	Type
2	C	815	LEU
2	C	834	GLN
2	C	837	ASP
2	C	839	LEU
2	C	841	ASN
2	C	846	LYS
2	C	852	ILE
2	C	853	LEU
2	C	855	VAL
2	C	861	LEU
2	C	867	VAL
2	C	869	VAL
2	C	871	LEU
2	C	873	PRO
2	C	881	ASN
2	C	882	LEU
2	C	892	LEU
2	C	924	LEU
2	C	952	LEU
2	C	964	LYS
2	C	988	VAL
2	C	994	ILE
2	C	999	HIS
2	C	1000	MET
2	C	1005	MET
2	C	1010	THR
2	C	1012	PRO
2	C	1017	THR
2	C	1018	GLN
2	C	1031	ARG
2	C	1052	MET
2	C	1053	LEU
2	C	1055	ILE
2	C	1091	GLU
2	C	1092	LEU
2	C	1106	ASP
2	C	1112	PHE
2	C	1115	LEU
3	D	5	VAL
3	D	462	GLN
3	D	502	PHE
3	D	509	PRO

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Mol	Chain	Res	Type
3	D	511	TRP
3	D	517	VAL
3	D	567	ILE
3	D	601	ARG
3	D	603	LEU
3	D	606	ILE
3	D	625	TYR
3	D	651	GLU
3	D	652	LEU
3	D	662	GLU
3	D	688	TRP
3	D	691	LEU
3	D	702	LEU
3	D	707	THR
3	D	722	GLU
3	D	751	LEU
3	D	752	SER
3	D	754	PHE
3	D	761	ILE
3	D	770	LEU
3	D	772	PRO
3	D	778	LEU
3	D	787	LEU
3	D	791	TYR
3	D	792	ILE
3	D	794	GLN
3	D	834	THR
3	D	857	LEU
3	D	860	LEU
3	D	864	VAL
3	D	879	ARG
3	D	899	LEU
3	D	906	GLN
3	D	914	LEU
3	D	917	GLN
3	D	925	GLU
3	D	926	LYS
3	D	931	LEU
3	D	936	TYR
3	D	941	LEU
3	D	948	ILE
3	D	957	ILE

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Mol	Chain	Res	Type
3	D	965	LEU
3	D	969	ASP
3	D	972	LEU
3	D	975	ILE
3	D	984	LEU
3	D	985	THR
3	D	988	GLU
3	D	1001	THR
3	D	1010	ASN
3	D	1023	VAL
3	D	1032	ASN
3	D	1034	GLN
3	D	1035	GLN
3	D	1039	LEU
3	D	1042	MET
3	D	1045	LEU
3	D	1046	MET
3	D	1053	THR
3	D	1058	VAL
3	D	1062	PHE
3	D	1063	ARG
3	D	1066	LEU
3	D	1091	ASP
3	D	1094	TYR
3	D	1102	VAL
3	D	1104	HIS
3	D	1106	ILE
3	D	1109	ARG
3	D	1119	ILE
3	D	1124	PHE
3	D	1138	ARG
3	D	1145	LEU
3	D	1149	VAL
3	D	1154	VAL
3	D	1167	LEU
3	D	1195	CYS
3	D	1197	THR
3	D	1254	THR
3	D	1261	ILE
3	D	1263	LEU
3	D	1265	GLU
3	D	1269	PRO

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Mol	Chain	Res	Type
3	D	1274	VAL
3	D	1275	ILE
3	D	1281	VAL
3	D	1282	VAL
3	D	1291	LEU
3	D	1292	SER
3	D	1300	PHE
3	D	1316	ASP
3	D	1373	VAL
3	D	1382	VAL
3	D	1383	THR
3	D	1425	VAL
3	D	1435	TRP
3	D	1436	LEU
3	D	1445	THR
3	D	1448	LEU
4	E	6	ILE
4	E	22	VAL
4	E	32	ARG
4	E	54	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (71) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	16	GLN
1	A	162	ASN
1	A	179	GLN
1	A	212	GLN
1	A	220	HIS
1	A	226	ASN
1	B	19	HIS
1	B	187	GLN
1	B	220	HIS
1	B	222	ASN
2	C	22	GLN
2	C	31	GLN
2	C	102	HIS
2	C	139	GLN
2	C	141	HIS
2	C	320	HIS
2	C	374	ASN
2	C	399	ASN

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Mol	Chain	Res	Type
2	C	538	GLN
2	C	563	ASN
2	C	565	GLN
2	C	567	GLN
2	C	623	HIS
2	C	632	ASN
2	C	633	GLN
2	C	671	ASN
2	C	704	HIS
2	C	841	ASN
2	C	843	HIS
2	C	845	ASN
2	C	860	HIS
2	C	872	ASN
2	C	881	ASN
2	C	889	HIS
2	C	991	GLN
2	C	999	HIS
2	C	1006	HIS
2	C	1018	GLN
2	C	1019	GLN
2	C	1026	GLN
2	C	1030	GLN
2	C	1047	HIS
2	C	1050	GLN
2	C	1064	ASN
3	D	507	ASN
3	D	541	ASN
3	D	549	ASN
3	D	551	ASN
3	D	552	ASN
3	D	593	ASN
3	D	636	GLN
3	D	680	GLN
3	D	696	HIS
3	D	727	GLN
3	D	737	ASN
3	D	756	GLN
3	D	762	GLN
3	D	768	ASN
3	D	901	GLN
3	D	917	GLN

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Mol	Chain	Res	Type
3	D	977	GLN
3	D	992	GLN
3	D	1034	GLN
3	D	1125	GLN
3	D	1236	GLN
3	D	1354	GLN
3	D	1368	HIS
3	D	1446	HIS
3	D	1466	ASN
4	E	28	GLN
4	E	59	ASN

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 2 ligands modelled in this entry, 2 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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
3	D	3

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D	155:ASP	C	2(U):UNK	N	55.17
1	D	46(U):UNK	C	452:ILE	N	46.65
1	D	10(U):UNK	C	20(U):UNK	N	14.79

6 Fit of model and data

6.1 Protein, DNA and RNA chains

EDS was not executed - this section is therefore empty.

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

EDS was not executed - this section is therefore empty.

6.3 Carbohydrates

EDS was not executed - this section is therefore empty.

6.4 Ligands

EDS was not executed - this section is therefore empty.

6.5 Other polymers

EDS was not executed - this section is therefore empty.