



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 30, 2024 – 06:59 PM EST

PDB ID : 1HQM
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
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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 : 4.02b-467
Xtrriage (Phenix) : **NOT EXECUTED**
EDS : **NOT EXECUTED**
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

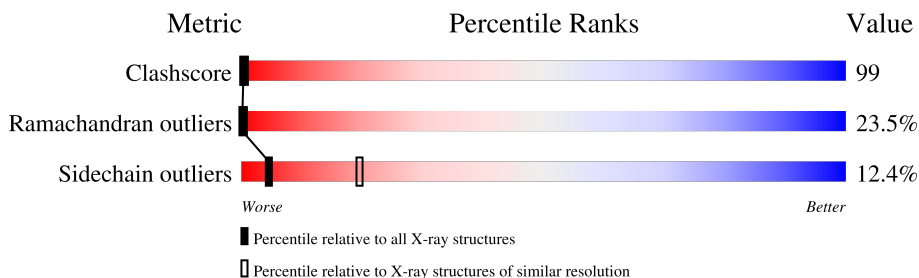
1 Overall quality at a glance

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	141614	1205 (3.34-3.26)
Ramachandran outliers	138981	1183 (3.34-3.26)
Sidechain outliers	138945	1182 (3.34-3.26)

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% 41% 18% . 29%
1	B	313	14% 38% 19% . 27%
2	C	1119	15% 56% 26% ..
3	D	1265	17% 54% 20% . 7%
4	E	99	12% 68% 19% .

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
			Total	C	N	O	S			
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
			Total	C	N	O	S			
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
			Total	C	N	O	S			
3	D	1175	8499	5328	1549	1595	27	17	0	0

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
			Total	C	N	O	S			
4	E	98	719	453	132	130	4	0	0	0

- Molecule 5 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

- Molecule 6 is ZINC ION (three-letter code: ZN) (formula: Zn).


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

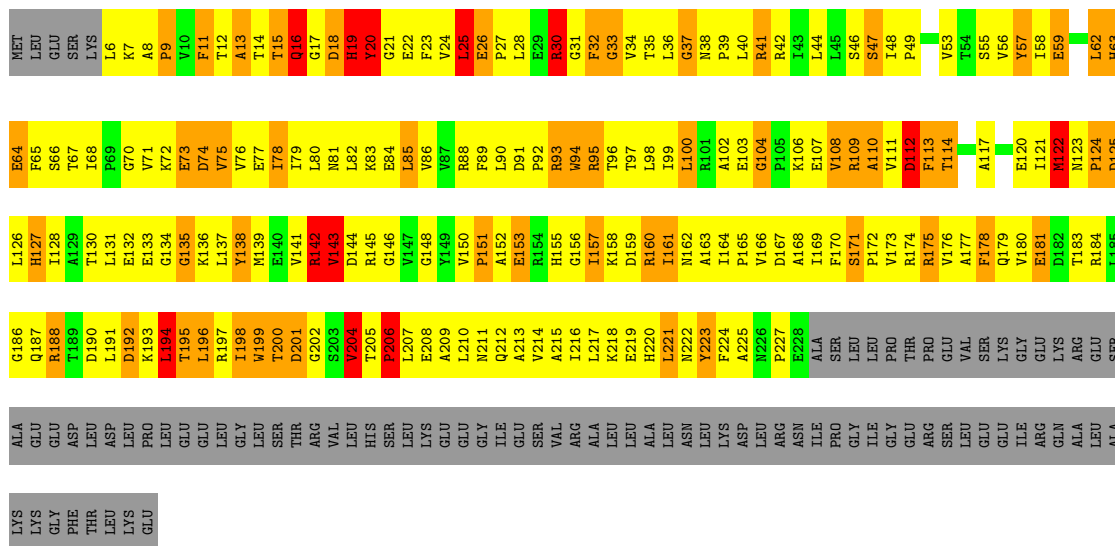
3 Residue-property plots

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.

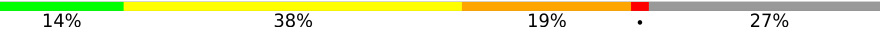
Note EDS was not executed.

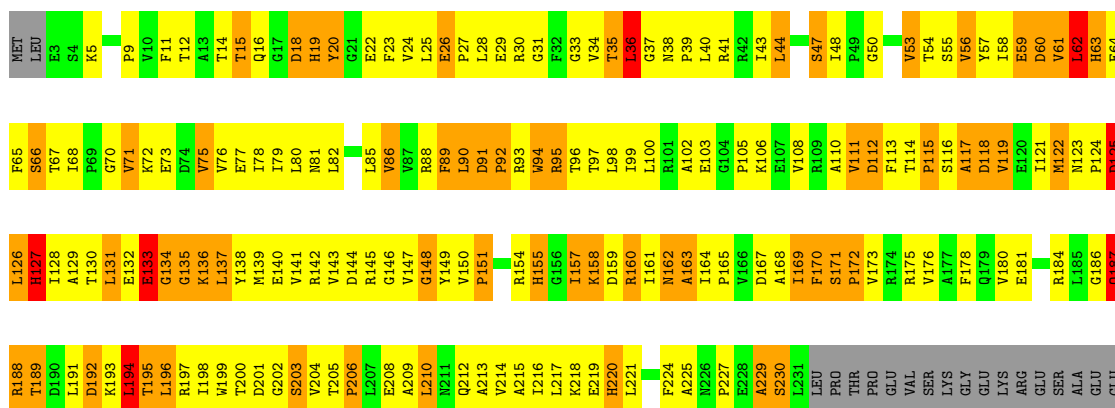
- Molecule 1: DNA-directed RNA polymerase subunit alpha

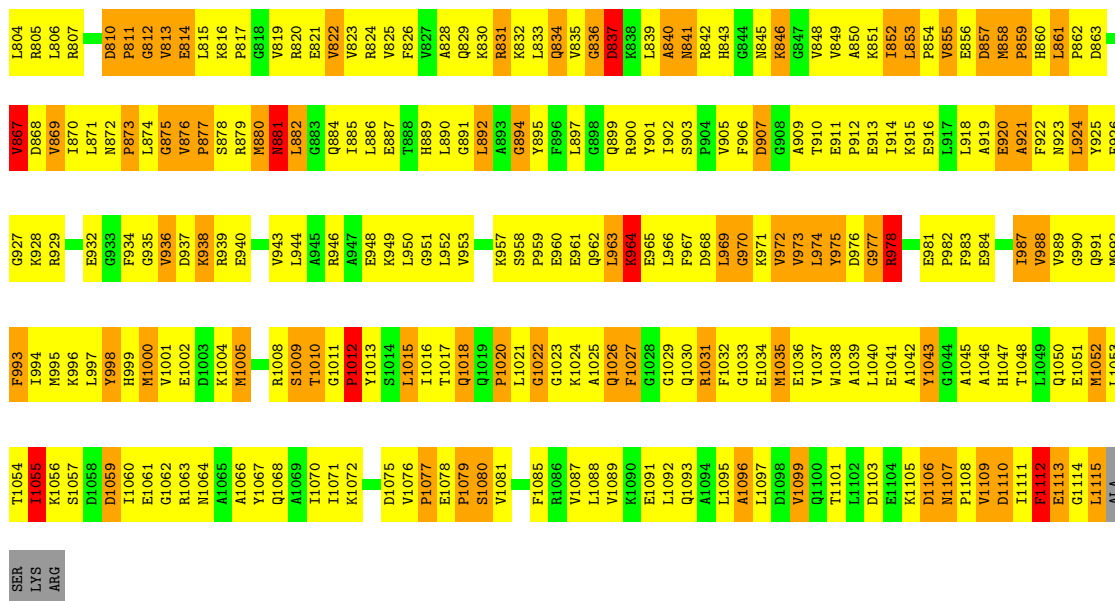
Chain A: 



- Molecule 1: DNA-directed RNA polymerase subunit alpha

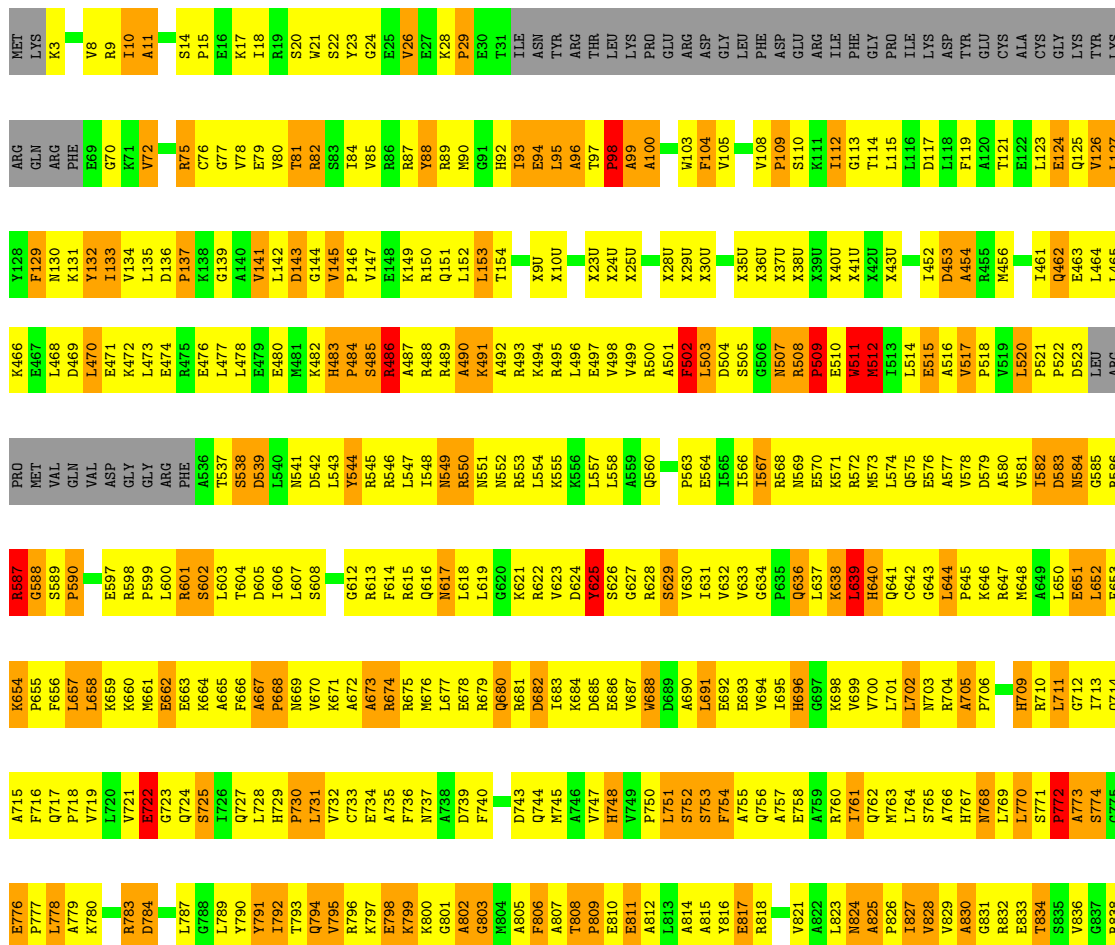
Chain B: 





• Molecule 3: DNA-directed RNA polymerase subunit beta'

Chain D: 17% 54% 20% 7%



L839	P905	E966	G1027	E1088	V1149	S1231	A1271	L1336	D1400	G1462	GLY
K840	Q906	E967	G1028	T1089	L1150	M1212	K1272	L1337	V1401	L1463	LEU
F841	E907	A968	R1030	A1090	A1151	A1213	A1273	E1338	E1402	L1464	
K908	K908	D969	R1030	D1091	R1152	R1214	V1274	A1339	A1403	E1465	
N909	N909	G970	G1031	S1092	K1340	I1275	I1276	G1341	L1404	N1466	
S910	S910	K971	N1032	G1093	V1154	V1216	S1276	G1342	L1408	V1467	
L911	L911	L972	P1033	Y1094	E1155	S1217	E1277	P1342	L1409	L1468	
K912	K912	R973	Q1034	L1095	A1156	I1218	I1278	E1343	A1410	L1469	
D913	D913	Q974	Q1035	T1096	L1157	I1219	D1279	A1344	A1411	G1470	
L914	L914	G975	I1036	R1097	E1158	E1220	G1280	V1345	GLY	L1471	
V915	V915	E976	R1037	K1098	R1159	A1221	V1281	E1346	GLY	L1472	
Y916	Y916	Q977	Q1038	L1099	R1160	V1222	V1282	R1347	LYS	I1473	
		A978	L1039	V1100	E1163	G1223	V1283	V1348	V1414	P1474	
		Y979	C1040	E1101	G1164	V1224	L1284	L1349	P1415	A1475	
		E980	G1041	V1102	G1164	V1225	E1285	E1352	V1416	G1476	
		E981	M1042	A1103	R1165	A1226	E1286	A1417	T1417	T1477	
		N981	R1043	H1104	V1166	E1227	G1287	I1353	W1418	G1478	
		L982	G1044	E1105	L1167	A1228	E1288	Q1354	K1419	S1479	
		T985	L1045	I1106	S1229	I1230	D1289	K1355	P1420	D1480	
		D986	M1046	V1107	I1170	G1231	R1290	V1356	L1421	F1481	
		K926	Q1047	V1108	D1171	G1232	L1291	Y1357	L1422	V1482	
		T927	K1048	R1109	H1172	P1233	S1300	R1358	M1423	R1483	
		A928	P1049	E988	V1173	P1234	S1292	K1359	G1424	F1484	
		R929	S1050	R989	E1110	G1235	V1293	H1360	T1425	T1485	
		L930	G1051	Y990	A1111	A1236	F1294	I1361	V1426	Q1486	
		K931	G1051	D991	L1175	Q1236	V1295	E1370	K1427	Y1487	
		L931	E1052	C1113	I1176	Q1237	F1300	E1371	S1428	V1488	
		D932	T1053	G1114	A1177	L1237	S1301	V1372	A1429	D1489	
		D933	F1054	T1115	A1178	L1238	K1302	K1373	E1430	Q1490	
		L934	L995	L996	A1179	M1239	K1303	H1368	S1431	K1494	
		K935	L996	A997	E1180	R1240	E1303	I1369	I1432	I1495	
		Y936	Y1058	I1119	A1181	T1241	Y1304	E1370	T1432	A1496	
		G937	R1059	S1120	K1182	PHE	K1305	E1371	K1433	E1497	
		Y938	S1060	E999	E1183	HIS	L1306	I1371	S1434	I1498	
		F939	S1061	P1122	E1184	THR	P1307	V1372	W1435	I1499	
		T940	F1062	L1123	R1185	GLY	K1311	R1374	W1436	G1497	
		L941	R1063	F1124	E1186	VAL	L1312	Q1375	S1437	ALA	
		S942	E1002	Q1125	V1187	ALA	L1313	M1376	A1438	ARG	
		T943	K1003	M1126	F1188	ALA	L1314	L1377	A1439	LYS	
		T944	G1065	D1127	V1189	VAL	V1314	K1378	S1440	GLY	
		S945	L1006	E1128	R1190	G1250	K1315	R1378	F1441	ALA	
		F946	T1067	V1129	S1191	T1251	D1316	Y1379	Q1442	VAL	
		R947	L1069	T1130	P1192	D1252	G1317	V1380	M1443	GLY	
		A883	V1008	R1131	L1193	I1253	D1318	E1381	T1444	ALA	
		R884	E1070	R1132	T1194	T1254	Y1319	V1382	T1445	LYS	
		I885	M1010	L1133	G1195	Q1255	V1320	T1383	H1446	GLY	
		V886	F1072	L1135	Q1196	G1256	E1321	D1384	L1448	LYS	
		V890	I1073	R1136	T1197	L1257	A1322	P1385	T1449	GLY	
		D891	S1074	E1013	R1198	P1258	G1323	G1386	L1448	ALA	
		D892	H1075	K1137	V1199	P1259	Q1324	D1387	E1450	PRO	
		D893	M1015	R1138	G1200	V1260	P1325	S1388	A1451	ARG	
		K894	Y1016	E1139	V1201	I1261	L1326	P1389	A1452	ARG	
		V895	A1078	S1139	V1202	I1262	T1327	L1390	T1453	PRO	
		V956	F1017	D1140	C1202	E1262	R1328	L1391	L1454	VAL	
		P957	R1018	I1141	Q1203	L1263	A1322	E1392	G1455	VAL	
		P958	K1080	I1141	F1264	F1264	G1329	L1392	V1455	ARG	
		E959	G1081	E1142	C1205	A1265	A1330	A1393	K1456	ARG	
		E960	G1082	S1143	G1205	E1266	I1331	Q1394	K1457	GLY	
		K961	A1083	L1144	G1207	R1267	D1332	V1395	D1458	GLN	
		Q901	D1084	L1145	G1207	R1268	P1333	L1396	D1459	PRO	
		Q962	V1023	L1146	Y1208	R1288	P1334	E1397	E1460	GLY	
		R963	M1024	Y1146	G1147	R1289	Q1335	I1397	T1461	LYS	
		R964	A1086	G1147	L1210	K1270					
		L965	L1087	R1148							

● Molecule 4: DNA-directed RNA polymerase subunit omega

Chain E: 12% 68% 19%

V61	H1
T62	A2
M63	E3
A64	P4
M65	G5
K66	I6
E67	D7
L68	K8
L69	L9
T70	F10
G71	G11
R72	M12
L73	V13
F74	D14
F75	S15
G76	K16
E77	R17
N78	R18
L79	L19
V80	T20
P81	V21
D82	V22
D83	V23
R84	A24
L85	K25
Q86	R26
K87	A27
E88	Q28
M89	Q29
E90	L30
L91	L31
R92	R32
R93	R33
P94	R34
E95	F35
E96	T36
E97	N37
E98	T38
ALA	V39
	L40
	E41
	P42
	E43
	E44
	R45
	P46
	K47
	M48
	PRO
	ARG
	ARG
	PRO
	VAL
	ARG
	L54
	Y55
	D56
	D57
	P58
	M59
	A60

4 Data and refinement statistics

Xtrriage (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.	Xtrriage
Total number of atoms	21254	wwPDB-VP
Average B, all atoms (Å ²)	80.0	wwPDB-VP

5 Model quality i

5.1 Standard geometry i

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

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	0.42	0/1786	0.77	0/2434
1	B	0.39	0/1812	0.74	0/2471
2	C	0.42	0/8672	0.78	5/11752 (0.0%)
3	D	0.42	0/8437	0.78	14/11443 (0.1%)
4	E	0.35	0/730	0.65	0/991
All	All	0.41	0/21437	0.77	19/29091 (0.1%)

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

There are no bond length outliers.

All (19) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	834	THR	N-CA-C	-6.40	93.72	111.00
3	D	137	PRO	N-CA-CB	6.22	110.77	103.30
2	C	580	MET	N-CA-C	6.19	127.70	111.00
2	C	836	GLY	N-CA-C	-6.04	97.99	113.10
2	C	329	GLY	N-CA-C	-5.97	98.17	113.10
3	D	1280	GLY	N-CA-C	5.83	127.66	113.10
3	D	639	LEU	N-CA-C	-5.70	95.62	111.00
3	D	1205	CYS	N-CA-C	-5.66	95.72	111.00
2	C	831	ARG	N-CA-C	5.58	126.05	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	29	PRO	N-CA-CB	5.57	109.98	103.30
3	D	512	MET	N-CA-C	-5.51	96.12	111.00
2	C	73	ILE	N-CA-C	-5.42	96.38	111.00
3	D	1066	LEU	CA-CB-CG	5.40	127.73	115.30
3	D	109	PRO	N-CA-CB	5.37	109.74	103.30
3	D	98	PRO	N-CA-CB	5.31	109.67	103.30
3	D	1043	ARG	N-CA-C	-5.29	96.71	111.00
3	D	1066	LEU	N-CA-C	-5.25	96.83	111.00
3	D	146	PRO	N-CA-CB	5.23	109.58	103.30
3	D	1070	GLU	N-CA-C	-5.21	96.94	111.00

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 [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1750	0	1759	403	0
1	B	1776	0	1776	323	0
2	C	8508	0	8418	1886	0
3	D	8499	0	7993	1651	0
4	E	719	0	685	125	0
5	D	1	0	0	0	0
6	D	1	0	0	0	0
All	All	21254	0	20631	4161	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 99.

All (4161) 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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:41:ARG:HB3	1:A:41:ARG:NH1	1.76	1.01
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:597:ALA:HA	2:C:614:ARG:NH1	1.77	0.99
3:D:1080:LYS:HG3	3:D:1081:GLY:N	1.78	0.98
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
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
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
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
2:C:162:ILE:HA	2:C:171:TRP:HZ3	1.28	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:C:12:VAL:HG12	2:C:13:ILE:N	1.80	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: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: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
1:B:86:VAL:HG23	1:B:123:ASN:CG	1.88	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:631:ILE:HD13	3:D:745:MET:HE2	1.51	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:860:LEU:C	3:D:862:ASP:H	1.67	0.88
3:D:1035:GLN:HA	3:D:1035:GLN:NE2	1.89	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
1:B:90:LEU:HD11	1:B:118:ASP:HA	1.61	0.83
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
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
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
3:D:1085:THR:C	3:D:1087:LEU:H	1.82	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
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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:523:ILE:C	2:C:525:ALA:H	1.85	0.79
2:C:1038:TRP:CD1	3:D:1100:VAL:HG11	2.17	0.79
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:D:1104:HIS:C	3:D:1106:ILE:H	1.86	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
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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:559:LEU:C	2:C:559:LEU:HD12	2.05	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
3:D:1381:GLU:CD	3:D:1392:GLU:HG3	2.06	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
2:C:1034:GLU:CD	3:D:1097:ARG:HH12	1.89	0.76
1:B:97:THR:HG22	1:B:98:LEU:H	1.50	0.76
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: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:1332:ASP:C	3:D:1334:HIS:H	1.90	0.76
2:C:256:TYR:C	2:C:260:LEU:HB3	2.06	0.76
3:D:1020:PRO:HB2	3:D:1023:VAL:CB	2.10	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:344:PHE:C	2:C:346:VAL:H	1.89	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
3:D:797:LYS:O	3:D:799:LYS:N	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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: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
2:C:836:GLY:C	2:C:837:ASP:OD2	2.25	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
2:C:996:LYS:HE2	2:C:1000:MET:HE3	1.69	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
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:519:GLY:C	2:C:521:PRO:HD3	2.07	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:728:LEU:HD22	3:D:745:MET:HE1	1.68	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
3:D:860:LEU:C	3:D:862:ASP:N	2.37	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1069:LEU:C	3:D:1071:TYR:H	1.89	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: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
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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:722:ILE:HD12	2:C:821:GLU:CD	2.08	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:590:PRO:C	3:D:600:LEU:HD21	2.09	0.72
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: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
1:A:161:ILE:HG12	1:A:162:ASN:CG	2.10	0.72
2:C:17:PRO:HD2	2:C:20:GLU:HB2	1.69	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
1:B:54:THR:HG21	1:B:144:ASP:HB2	1.72	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:399:ASN:C	2:C:399:ASN:HD22	1.93	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
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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:30:ARG:HA	1:A:192:ASP:OD1	1.89	0.72
2:C:399:ASN:ND2	2:C:399:ASN:C	2.43	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
3:D:1408:LEU:C	3:D:1410:ALA:H	1.92	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:256:TYR:O	2:C:260:LEU:HB3	1.90	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
2:C:31:GLN:NE2	2:C:39:ARG:HB3	2.05	0.71
4:E:8:LYS:HE2	4:E:69:LEU:HD11	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:889:HIS:C	2:C:891:GLY:H	1.92	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:222:ASN:O	1:A:224:PHE:N	2.24	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
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: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
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:1063:ARG:C	3:D:1063:ARG:HD3	2.11	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
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:20:GLU:CD	2:C:461:VAL:HG22	2.12	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
1:B:100:LEU:HD11	1:B:112:ASP:HB2	1.72	0.70
2:C:467:ILE:HG22	2:C:484:VAL:HG21	1.74	0.70
3:D:684:LYS:HD3	3:D:685:ASP:N	2.06	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
3:D:552:ASN:C	3:D:554:LEU:H	1.93	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
2:C:62:GLY:C	2:C:103:LYS:HB2	2.13	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1107:ASN:N	2:C:1108:PRO:HD3	2.07	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
3:D:807:ALA:C	3:D:809:PRO:HD3	2.13	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
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
1:A:41:ARG:HG2	1:A:176:VAL:CG1	2.23	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:676:ILE:O	2:C:677:MET:HB3	1.92	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:328:LEU:C	2:C:467:ILE:HD13	2.13	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:C:813:VAL:HG12	2:C:814:GLU:N	2.05	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
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: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:89:ARG:C	3:D:520:LEU:HD21	2.13	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:1253:ILE:C	3:D:1255:GLN:H	1.97	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
1:A:194:LEU:CD2	1:A:195:THR:H	2.06	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:B:66:SER:OG	1:B:67:THR:N	2.27	0.67
2:C:184:MET:HE2	2:C:191:PHE:HZ	1.60	0.67
2:C:531:PHE:O	2:C:532:MET:HB2	1.93	0.67
2:C:761:PHE:O	2:C:762:LYS:O	2.12	0.67
2:C:1060:ILE:O	2:C:1061:GLU:C	2.33	0.67
2:C:1095:LEU:O	2:C:1096:ALA:HB3	1.94	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
2:C:946:ARG:HE	3:D:861:GLN:CD	1.98	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:369:PRO:C	2:C:371:LYS:H	1.98	0.67
2:C:605:LYS:HD2	2:C:607:ASP:CG	2.13	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
1:B:40:LEU:C	1:B:44:LEU:HD22	2.14	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:C:886:LEU:HD22	2:C:914:ILE:HD13	1.76	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: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:88:ARG:HD3	1:A:120:GLU:CD	2.14	0.66
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: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
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
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:13:ILE:C	2:C:15:LEU:H	1.98	0.66
2:C:446:GLY:HA2	2:C:449:ILE:CD1	2.26	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:D:863:THR:O	3:D:864:VAL:HG23	1.96	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: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
3:D:1203:GLN:O	3:D:1204:LYS:HB2	1.96	0.66
4:E:14:ASP:CG	4:E:15:SER:H	1.99	0.66
1:A:6:LEU:C	1:A:8:ALA:H	1.99	0.66
1:B:172:PRO:HB3	1:B:204:VAL:HB	1.78	0.66
2:C:1113:GLU:C	2:C:1115:LEU:H	1.97	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:691:SER:HB2	2:C:858:MET:CE	2.25	0.66
2:C:937:ASP:OD1	2:C:939:ARG:HD3	1.95	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:728:HIS:C	2:C:730:SER:H	1.99	0.66
2:C:1026:GLN:HE21	3:D:674:ARG:HH21	1.43	0.66
2:C:149:THR:OG1	2:C:323:ASP:HA	1.96	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:605:LYS:CG	2:C:606:VAL:H	1.87	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:1237:LEU:HD11	3:D:1357:TYR:HE2	1.61	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
3:D:477:LEU:HA	3:D:480:GLU:CB	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:109:ARG:HB2	1:A:125:ASP:O	1.96	0.65
2:C:266:ARG:C	2:C:268:ASP:H	1.99	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:255:ALA:C	2:C:257:LEU:H	1.99	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:465:LEU:HB2	3:D:512:MET:HE1	1.79	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
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
1:B:125:ASP:O	1:B:126:LEU:HB3	1.97	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: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:1202:CYS:SG	3:D:1203:GLN:N	2.69	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
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
1:A:194:LEU:O	1:A:195:THR:HB	1.97	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:1016:TYR:CA	3:D:1019:ASN:HD22	2.05	0.64
3:D:1085:THR:C	3:D:1087:LEU:N	2.48	0.64
1:A:111:VAL:C	1:A:113:PHE:H	2.01	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:1061:SER:C	3:D:1063:ARG:H	2.00	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: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: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:564:MET:SD	2:C:846:LYS:HB3	2.38	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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:605:LYS:HE2	2:C:611:ILE:HG23	1.79	0.64
2:C:1008:ARG:CG	2:C:1009:SER:N	2.61	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:1354:GLN:CD	3:D:1365:HIS:HB2	2.18	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
2:C:94:LEU:HD23	2:C:344:PHE:HZ	1.63	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
2:C:924:LEU:N	2:C:924:LEU:HD23	2.12	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
1:B:100:LEU:HD22	1:B:139:MET:HE1	1.80	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:460:ARG:HD2	2:C:464:LEU:HD22	1.81	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: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
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: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
3:D:863:THR:C	3:D:864:VAL:HG23	2.19	0.63
4:E:38:THR:HG22	4:E:39:VAL:H	1.62	0.63
1:A:177:ALA:O	1:A:178:PHE:HB3	1.98	0.63
2:C:333:ILE:HD11	2:C:468:ARG:NE	2.12	0.63
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
2:C:996:LYS:CE	2:C:1000:MET:HE3	2.27	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:57:TYR:C	1:A:57:TYR:CD2	2.71	0.63
1:A:102:ALA:HA	1:A:106:LYS:NZ	2.14	0.63
2:C:842:ARG:HH21	2:C:887:GLU:CD	2.01	0.63
2:C:1012:PRO:CB	2:C:1023:GLY:HA3	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:712:ALA:HB3	2:C:820:ARG:O	1.98	0.63
3:D:864:VAL:HG12	3:D:874:GLU:C	2.18	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
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:1105:LYS:C	2:C:1108:PRO:HD3	2.18	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
3:D:1402:GLU:C	3:D:1404:LEU:H	2.02	0.62
1:A:126:LEU:HG	1:A:126:LEU:O	1.99	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
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:210:LEU:O	1:A:213:ALA:HB3	1.99	0.62
1:B:111:VAL:C	1:B:113:PHE:H	2.01	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:A:100:LEU:C	1:A:100:LEU:HD12	2.19	0.62
1:B:56:VAL:HB	1:B:164:ILE:HD11	1.81	0.62
2:C:323:ASP:C	2:C:325:ILE:N	2.47	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: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
2:C:706:GLU:CD	2:C:707:ARG:H	2.02	0.62
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:631:ILE:HG21	3:D:745:MET:CE	2.30	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
1:A:157:ILE:HG23	1:A:158:LYS:N	2.07	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: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: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
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:672:VAL:HG22	2:C:868:ASP:CG	2.20	0.61
2:C:813:VAL:CG1	2:C:815:LEU:HD11	2.31	0.61
3:D:691:LEU:C	3:D:693:GLU:N	2.52	0.61
3:D:701:LEU:HA	3:D:715:ALA:HB2	1.82	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:C:654:LEU:O	2:C:655:LEU:C	2.38	0.61
2:C:836:GLY:C	2:C:848:VAL:HG23	2.21	0.61
3:D:691:LEU:C	3:D:693:GLU:H	2.03	0.61
3:D:795:VAL:HG12	3:D:796:ARG:N	2.16	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: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:1015:ASN:O	3:D:1016:TYR:CB	2.48	0.61
3:D:1069:LEU:C	3:D:1071:TYR:N	2.51	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
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:578:VAL:C	3:D:580:ALA:H	2.02	0.61
3:D:957:ILE:HG23	3:D:1040:CYS:O	2.01	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: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:457:ALA:O	2:C:459:ALA:N	2.34	0.61
2:C:922:PHE:C	2:C:924:LEU:H	2.02	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:625:TYR:HE1	3:D:751:LEU:HD21	1.66	0.61
2:C:491:GLU:CD	2:C:510:THR:HB	2.22	0.61
2:C:570:PRO:C	2:C:571:LEU:HD12	2.21	0.61
2:C:613:VAL:HG21	2:C:619:ARG:NE	2.16	0.61
2:C:691:SER:HB2	2:C:858:MET:HE1	1.82	0.61
2:C:859:PRO:HD2	2:C:867:VAL:CG2	2.31	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:327:HIS:C	2:C:329:GLY:H	2.04	0.61
2:C:402:SER:O	2:C:403:SER:C	2.39	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:1089:THR:HA	3:D:1092:SER:CB	2.30	0.61
3:D:1252:ASP:C	3:D:1254:THR:H	2.04	0.61
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:1130:THR:O	3:D:1131:ARG:C	2.37	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
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:B:102:ALA:HB3	1:B:136:LYS:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:D:1476:GLY:C	3:D:1478:GLY:H	2.05	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: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:950:LEU:O	2:C:951:GLY:C	2.40	0.60
2:C:1020:PRO:HG2	3:D:624:ASP:HB2	1.82	0.60
3:D:752:SER:O	3:D:754:PHE:N	2.34	0.60
3:D:1467:VAL:O	3:D:1470:GLY:N	2.33	0.60
1:B:159:ASP:O	1:B:161:ILE:N	2.34	0.60
2:C:290:LEU:HD12	2:C:300:ASP:HA	1.84	0.60
2:C:981:GLU:CD	2:C:981:GLU:H	2.05	0.60
3:D:1138:ARG:H	3:D:1138:ARG:HD2	1.66	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
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:30:LEU:O	2:C:31:GLN:C	2.41	0.60
2:C:396:ASP:HB3	2:C:402:SER:HB3	1.84	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:D:1354:GLN:O	3:D:1355:LYS:C	2.38	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:58:ILE:CG2	1:B:139:MET:HG2	2.32	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
2:C:428:ARG:HA	2:C:431:HIS:HD2	1.65	0.59
2:C:460:ARG:O	2:C:461:VAL:HB	2.01	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:663:GLU:C	3:D:665:ALA:H	2.05	0.59
3:D:787:LEU:HD12	3:D:787:LEU:O	2.01	0.59
1:A:114:THR:HG23	1:A:114:THR:O	2.03	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: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:1018:PHE:HA	3:D:1024:MET:HE1	1.84	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:85:LEU:HD23	1:A:85:LEU:C	2.22	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:111:VAL:O	1:A:113:PHE:N	2.35	0.59
2:C:5:ARG:HH22	2:C:10:ARG:HH11	1.49	0.59
2:C:497:ALA:C	2:C:502:PRO:HA	2.22	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: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:84:GLU:O	1:A:85:LEU:C	2.40	0.59
1:A:98:LEU:HB3	1:A:113:PHE:HD2	1.66	0.59
2:C:613:VAL:HG22	2:C:620:LEU:C	2.21	0.59
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
1:A:191:LEU:N	1:A:191:LEU:HD23	2.17	0.59
2:C:600:ASP:C	2:C:648:ARG:HB2	2.23	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
3:D:14:SER:O	3:D:17:LYS:N	2.33	0.59
3:D:979:TYR:C	3:D:981:MET:N	2.56	0.59
3:D:1097:ARG:HG3	3:D:1097:ARG:NH1	2.18	0.59
3:D:1332:ASP:C	3:D:1334:HIS:N	2.56	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: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:954:ASP:O	3:D:955:ALA:HB3	2.03	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:D:601:ARG:HD3	3:D:605:ASP:CG	2.23	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: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
2:C:196:LEU:O	2:C:200:LEU:HG	2.03	0.59
2:C:457:ALA:C	2:C:459:ALA:H	2.07	0.59
2:C:571:LEU:N	2:C:571:LEU:CD1	2.65	0.59
2:C:915:LYS:O	2:C:916:GLU:C	2.41	0.59
2:C:1034:GLU:CG	2:C:1035:MET:N	2.66	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
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:881:ASN:C	2:C:882:LEU:HD23	2.23	0.58
2:C:901:TYR:O	2:C:902:ILE:HD12	2.03	0.58
3:D:1284:ILE:HG12	3:D:1293:VAL:HG13	1.85	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: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:A:200:THR:HG22	1:A:201:ASP:N	2.18	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:308:ARG:O	2:C:310:LEU:N	2.37	0.58
2:C:501:THR:O	2:C:502:PRO:C	2.41	0.58
2:C:852:ILE:O	2:C:852:ILE:HG12	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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: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:360:VAL:O	2:C:361:MET:C	2.41	0.58
2:C:460:ARG:HH11	2:C:464:LEU:HD21	1.67	0.58
3:D:607:LEU:HD11	3:D:614:PHE:CZ	2.38	0.58
3:D:1257:LEU:HB3	3:D:1258:PRO:HD3	1.86	0.58
3:D:1295:VAL:O	3:D:1295:VAL:HG12	2.04	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:352:ALA:C	2:C:355:VAL:HG12	2.23	0.58
2:C:523:ILE:C	2:C:525:ALA:N	2.56	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:B:79:ILE:HD11	1:B:164:ILE:HD12	1.84	0.58
2:C:13:ILE:C	2:C:15:LEU:N	2.55	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: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:265:LYS:O	2:C:266:ARG:HB2	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
2:C:271:GLU:O	2:C:272:ALA:HB3	2.03	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
3:D:979:TYR:C	3:D:981:MET:H	2.05	0.58
1:A:16:GLN:HG3	1:A:20:TYR:HB3	1.86	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
3:D:1212:MET:C	3:D:1214:ARG:H	2.07	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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: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:728:LEU:CD2	3:D:745:MET:HE1	2.34	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: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: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:1262:GLU:CD	3:D:1269:PRO:HB3	2.25	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:389:SER:C	2:C:391:LEU:H	2.07	0.57
2:C:434:HIS:C	2:C:436:GLY:H	2.08	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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:1020:PRO:C	3:D:1022:TYR:H	2.06	0.57
3:D:1102:VAL:HA	3:D:1429:ALA:HB2	1.86	0.57
3:D:1426:THR:C	3:D:1428:SER:H	2.08	0.57
2:C:255:ALA:C	2:C:257:LEU:N	2.57	0.57
2:C:528:GLU:O	2:C:529:VAL:CB	2.53	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
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:730:PRO:O	3:D:731:LEU:C	2.42	0.57
3:D:936:TYR:C	3:D:936:TYR:CD2	2.77	0.57
1:A:123:ASN:ND2	1:A:126:LEU:HD22	2.20	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:688:TRP:C	3:D:690:ALA:H	2.07	0.57
3:D:709:HIS:HA	3:D:1228:GLU:CB	2.35	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
3:D:768:ASN:HD22	4:E:16:LYS:NZ	2.02	0.57
3:D:1020:PRO:C	3:D:1022:TYR:N	2.55	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1137:LYS:HE3	3:D:1140:ASP:OD1	2.05	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:1104:HIS:C	3:D:1106:ILE:N	2.57	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
3:D:1404:LEU:C	3:D:1408:LEU:HB2	2.25	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
3:D:977:GLN:C	3:D:979:TYR:H	2.09	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:110:GLU:HG3	2:C:369:PRO:C	2.26	0.56
2:C:118:LEU:HD23	2:C:118:LEU:O	2.05	0.56
2:C:184:MET:CE	2:C:191:PHE:HZ	2.17	0.56
2:C:260:LEU:HD23	2:C:261:LEU:HB3	1.87	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:455:LEU:C	2:C:455:LEU:HD12	2.25	0.56
2:C:549:PHE:CE2	2:C:886:LEU:HB3	2.41	0.56
2:C:603:VAL:HG21	2:C:645:VAL:C	2.26	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:709:HIS:CA	3:D:1228:GLU:HB3	2.35	0.56
3:D:795:VAL:HG22	3:D:876:ASN:CG	2.25	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:1400:ASP:OD2	3:D:1418:TRP:CE3	2.58	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:A:174:ARG:O	1:A:175:ARG:HB2	2.06	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:344:PHE:C	2:C:346:VAL:N	2.58	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:96:ALA:O	3:D:97:THR:C	2.43	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:1327:THR:C	3:D:1329:GLY:H	2.09	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:1062:GLY:O	2:C:1063:ARG:C	2.43	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:249:LYS:O	2:C:250:LYS:C	2.44	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1408:LEU:C	3:D:1410:ALA:N	2.58	0.56
3:D:1458:ASP:CG	3:D:1460:LEU:HD23	2.24	0.56
4:E:26:ARG:HH21	4:E:67:GLU:CD	2.08	0.56
1:A:72:LYS:CB	2:C:607:ASP:HB3	2.35	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:548:ILE:C	3:D:550:ARG:H	2.09	0.56
3:D:728:LEU:HD22	3:D:745:MET:HE3	1.85	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
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:394:PHE:O	2:C:395:LYS:HB2	2.06	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
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:369:PRO:C	2:C:371:LYS:N	2.57	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:86:VAL:HG12	1:A:123:ASN:CG	2.26	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
3:D:126:VAL:H	3:D:456:MET:HE2	1.71	0.55
3:D:661:MET:CE	3:D:677:LEU:HD21	2.36	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: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:908:LYS:HG2	3:D:909:ASN:N	2.21	0.55
3:D:1180:GLU:C	3:D:1182:GLY:H	2.08	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: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:542:ASP:O	3:D:543:LEU:C	2.44	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1349:LEU:HG	3:D:1376:MET:HE3	1.87	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:336:VAL:HA	2:C:339:LEU:CD1	2.37	0.55
2:C:841:ASN:C	2:C:841:ASN:HD22	2.09	0.55
2:C:987:ILE:HD11	3:D:946:GLY:HA3	1.88	0.55
2:C:987:ILE:HG22	2:C:987:ILE:O	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:A:163:ALA:O	1:A:164:ILE:C	2.45	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
2:C:466:PHE:C	2:C:466:PHE:CD1	2.80	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: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
1:B:100:LEU:HD22	1:B:139:MET:HE2	1.89	0.55
1:B:125:ASP:OD2	1:B:125:ASP:N	2.40	0.55
2:C:404:LEU:HD23	2:C:587:VAL:HG13	1.89	0.55
2:C:752:GLY:O	2:C:791:ARG:HD3	2.07	0.55
3:D:604:THR:HG22	3:D:608:SER:HB3	1.88	0.55
3:D:764:LEU:HD12	3:D:765:SER:H	1.71	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: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
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
1:B:25:LEU:C	1:B:25:LEU:HD12	2.27	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:675:ALA:HB2	2:C:989:VAL:HG22	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:C:889:HIS:C	2:C:891:GLY:N	2.59	0.55
3:D:483:HIS:N	3:D:484:PRO:CD	2.56	0.55
3:D:949:THR:O	3:D:949:THR:HG22	2.06	0.55
1:A:41:ARG:HD2	1:A:41:ARG:C	2.28	0.55
1:A:102:ALA:HB1	1:A:106:LYS:HE2	1.87	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: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: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
3:D:1118:TYR:C	3:D:1119:ILE:HD12	2.28	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
3:D:691:LEU:HD12	3:D:692:GLU:H	1.70	0.55
3:D:752:SER:O	3:D:753:SER:C	2.46	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
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: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:340:MET:SD	2:C:340:MET:C	2.86	0.54
2:C:460:ARG:CG	2:C:461:VAL:H	2.20	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
3:D:664:LYS:O	3:D:665:ALA:HB3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1205:CYS:C	3:D:1207:GLY:H	2.10	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:389:SER:C	2:C:391:LEU:N	2.60	0.54
2:C:821:GLU:O	2:C:822:VAL:HG23	2.06	0.54
2:C:928:LYS:O	2:C:929:ARG:C	2.44	0.54
3:D:687:VAL:O	3:D:688:TRP:C	2.46	0.54
3:D:879:ARG:NH1	3:D:905:PRO:HD2	2.22	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
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
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:1012:PRO:HG3	2:C:1024:LYS:H	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:899:LEU:C	3:D:900:ILE:HG13	2.28	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:76:VAL:O	1:B:79:ILE:HB	2.07	0.54
2:C:743:VAL:CG1	2:C:800:VAL:HG21	2.36	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:62:LEU:H	1:A:62:LEU:CD1	1.93	0.54
2:C:312:ALA:HB1	2:C:318:PRO:HG3	1.90	0.54
2:C:544:THR:C	2:C:546:LEU:H	2.09	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:142:ARG:CG	1:A:143:VAL:H	2.20	0.54
1:A:170:PHE:O	1:A:171:SER:C	2.46	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:324:ASP:C	2:C:326:ASP:H	2.10	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
3:D:1353:ILE:O	3:D:1354:GLN:C	2.46	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:663:GLU:C	3:D:665:ALA:N	2.60	0.54
3:D:729:HIS:ND1	3:D:730:PRO:HG2	2.23	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:203:ASP:O	2:C:204:GLN:C	2.45	0.54
2:C:469:THR:HB	2:C:482:GLU:O	2.07	0.54
3:D:558:LEU:C	3:D:560:GLN:H	2.10	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
2:C:165:LEU:C	2:C:167:LYS:H	2.11	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: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: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:598:GLU:HG3	2:C:614:ARG:NH2	2.23	0.53
2:C:816:LYS:HZ2	2:C:817:PRO:HG2	1.74	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:959:GLU:C	3:D:961:LYS:H	2.12	0.53
3:D:1061:SER:C	3:D:1063:ARG:N	2.61	0.53
4:E:79:LEU:C	4:E:81:PRO:HD2	2.28	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:320:HIS:C	2:C:322:VAL:N	2.61	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:99:ALA:O	3:D:100:ALA:HB2	2.07	0.53
3:D:500:ARG:O	3:D:504:ASP:N	2.41	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:197:ARG:HH12	2:C:932:GLU:CD	2.12	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:117:ALA:C	1:B:119:VAL:H	2.12	0.53
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: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:922:PHE:C	2:C:924:LEU:N	2.62	0.53
2:C:996:LYS:HE2	2:C:1000:MET:CE	2.38	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:815:ALA:HB3	3:D:832:ARG:HD2	1.90	0.53
3:D:1402:GLU:C	3:D:1404:LEU:N	2.62	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
2:C:970:GLY:HA2	3:D:950:ILE:HG21	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1005:MET:SD	3:D:724:GLN:HA	2.49	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:957:ILE:HD11	3:D:1063:ARG:HD2	1.91	0.53
3:D:1451:ALA:HA	3:D:1456:LYS:CG	2.36	0.53
1:A:91:ASP:CG	1:A:92:PRO:HD2	2.29	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
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: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:1106:ILE:HD12	3:D:1371:ILE:CG2	2.39	0.53
4:E:27:ALA:C	4:E:29:GLN:H	2.11	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:163:ILE:HG21	2:C:169:GLY:C	2.29	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
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:1484:PHE:O	3:D:1485:THR:C	2.48	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:772:PRO:O	3:D:773:ALA:C	2.47	0.53
3:D:937:TYR:O	3:D:938:GLY:C	2.47	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:57:TYR:C	1:A:57:TYR:HD2	2.11	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
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:232:GLU:C	2:C:234:ALA:N	2.62	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:1320:VAL:O	3:D:1321:GLU:C	2.47	0.53
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:1219:GLY:C	4:E:17:TYR:HE2	2.12	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:208:VAL:HG11	2:C:218:VAL:HG21	1.92	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: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:1070:GLU:C	3:D:1072:PHE:N	2.60	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:205:THR:CG2	1:A:206:PRO:HD2	2.37	0.52
1:B:19:HIS:O	1:B:20:TYR:C	2.46	0.52
2:C:87:ASP:CG	2:C:824:ARG:HH22	2.12	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:668:PRO:HG2	3:D:672:ALA:CB	2.40	0.52
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
3:D:1494:LYS:C	3:D:1496:ILE:H	2.12	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
2:C:637:PHE:CD1	2:C:637:PHE:C	2.83	0.52
2:C:1005:MET:O	2:C:1005:MET:HG3	2.09	0.52
3:D:26:VAL:C	3:D:28:LYS:H	2.11	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:969:ASP:O	3:D:970:ARG:C	2.47	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:8:ARG:C	2:C:9:ILE:HD12	2.30	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:1061:SER:O	3:D:1062:PHE:HB2	2.09	0.52
3:D:1152:ARG:N	3:D:1163:GLU:HG2	2.24	0.52
3:D:1259:ARG:C	3:D:1261:ILE:N	2.63	0.52
1:A:102:ALA:HB3	1:A:137:LEU:CB	2.39	0.52
1:B:59:GLU:O	1:B:60:ASP:HB2	2.09	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: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
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: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
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:653:PHE:O	3:D:654:LYS:C	2.48	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: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:215:GLY:O	2:C:216:ASP:C	2.48	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:427:VAL:C	2:C:429:ASP:H	2.13	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: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
3:D:1458:ASP:C	3:D:1460:LEU:H	2.13	0.52
1:A:26:GLU:HB3	1:A:27:PRO:HD2	1.86	0.52
2:C:163:ILE:HG22	2:C:265:LYS:HZ1	1.74	0.52
2:C:774:LEU:HA	2:C:777:ILE:HD12	1.92	0.52
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:987:ILE:CA	3:D:948:ILE:HG21	2.39	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:1018:PHE:HA	3:D:1024:MET:CE	2.40	0.52
3:D:1066:LEU:C	3:D:1068:VAL:H	2.13	0.52
3:D:1232:GLU:C	3:D:1234:GLY:H	2.13	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:918:LEU:HD22	2:C:968:ASP:CA	2.30	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:676:ILE:CG2	2:C:677:MET:N	2.73	0.51
2:C:743:VAL:CG1	2:C:744:ARG:N	2.73	0.51
2:C:987:ILE:O	2:C:988:VAL:C	2.48	0.51
3:D:502:PHE:C	3:D:504:ASP:N	2.64	0.51
3:D:578:VAL:HG12	3:D:582:ILE:CD1	2.39	0.51
3:D:691:LEU:O	3:D:693:GLU:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:773:ALA:O	3:D:774:SER:HB2	2.10	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:64:LEU:HB3	2:C:359:MET:HE1	1.93	0.51
2:C:163:ILE:HD12	2:C:163:ILE:C	2.31	0.51
2:C:208:VAL:O	2:C:209:ARG:HB2	2.10	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:552:ASN:C	3:D:554:LEU:N	2.63	0.51
3:D:578:VAL:C	3:D:580:ALA:N	2.63	0.51
3:D:601:ARG:HD3	3:D:605:ASP:OD2	2.10	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:927:THR:HG22	3:D:931:LEU:CD2	2.40	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:1479:SER:C	3:D:1481:PHE:N	2.60	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:34:VAL:C	1:B:36:LEU:H	2.13	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:753:SER:O	3:D:754:PHE:C	2.47	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:1232:GLU:O	3:D:1234:GLY:N	2.35	0.51
3:D:1401:VAL:O	3:D:1401:VAL:HG12	2.11	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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: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: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
3:D:681:ARG:O	3:D:682:ASP:CB	2.58	0.51
3:D:902:MET:HE2	3:D:902:MET:O	2.10	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
2:C:263:ASP:CB	2:C:264:PRO:CD	2.88	0.51
2:C:495:THR:CG2	2:C:496:ILE:H	2.21	0.51
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: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:936:TYR:C	3:D:936:TYR:HD2	2.13	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:892:LEU:C	2:C:894:GLY:H	2.15	0.51
2:C:1018:GLN:HE21	2:C:1060:ILE:HG12	1.76	0.51
3:D:520:LEU:HB3	3:D:521:PRO:CD	2.38	0.51
3:D:678:GLU:C	3:D:680:GLN:H	2.14	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: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:1108:PRO:O	2:C:1109:VAL:C	2.49	0.51
3:D:469:ASP:O	3:D:471:GLU:N	2.43	0.51
3:D:1282:VAL:HG22	3:D:1315:LYS:C	2.31	0.51
3:D:1342:PRO:O	3:D:1343:GLU:C	2.48	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:142:ARG:NH1	1:A:144:ASP:OD1	2.44	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:310:LEU:O	2:C:311:PHE:C	2.49	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: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:944:LEU:C	2:C:946:ARG:H	2.15	0.50
2:C:1026:GLN:O	2:C:1027:PHE:CB	2.60	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: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:1373:VAL:HA	3:D:1376:MET:HE2	1.93	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:540:PHE:CE1	2:C:906:PHE:CE1	2.98	0.50
2:C:544:THR:C	2:C:546:LEU:N	2.63	0.50
2:C:749:VAL:CG1	2:C:792:VAL:HG21	2.35	0.50
2:C:1009:SER:HB2	3:D:651:GLU:OE1	2.12	0.50
3:D:115:LEU:C	3:D:117:ASP:H	2.14	0.50
3:D:631:ILE:HG21	3:D:745:MET:HE3	1.93	0.50
3:D:657:LEU:O	3:D:658:LEU:C	2.49	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
1:A:58:ILE:HG21	1:A:68:ILE:CD1	2.41	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:559:LEU:C	2:C:559:LEU:CD1	2.76	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1095:LEU:O	2:C:1096:ALA:CB	2.57	0.50
3:D:92:HIS:HA	3:D:517:VAL:CG1	2.33	0.50
3:D:644:LEU:O	3:D:645:PRO:C	2.48	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:901:TYR:C	2:C:902:ILE:HD12	2.32	0.50
2:C:1071:ILE:O	3:D:659:LYS:CG	2.60	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:1382:VAL:HG12	3:D:1383:THR:N	2.22	0.50
1:A:111:VAL:C	1:A:113:PHE:N	2.64	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
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: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:964:LYS:HB2	2:C:964:LYS:NZ	2.26	0.50
3:D:637:LEU:O	3:D:638:LYS:C	2.49	0.50
3:D:1460:LEU:CD1	3:D:1471:ARG:NH1	2.75	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: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:863:ASP:C	2:C:863:ASP:OD2	2.48	0.50
2:C:1088:LEU:HD11	3:D:614:PHE:CE2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:494:LYS:O	3:D:495:ARG:C	2.50	0.50
3:D:1043:ARG:HG3	3:D:1043:ARG:O	2.12	0.50
3:D:1066:LEU:C	3:D:1068:VAL:N	2.65	0.50
3:D:1145:LEU:N	3:D:1145:LEU:HD23	2.26	0.50
3:D:1381:GLU:CG	3:D:1392:GLU:HG3	2.41	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:317:VAL:N	2:C:318:PRO:HD2	2.27	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: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:966:GLU:O	3:D:967:GLU:C	2.48	0.50
3:D:1060:SER:OG	3:D:1068:VAL:CG2	2.60	0.50
3:D:1122:PRO:C	3:D:1123:LEU:HD12	2.32	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:217:LEU:O	1:A:221:LEU:HD23	2.11	0.50
1:A:221:LEU:HD21	1:B:217:LEU:HD23	1.92	0.50
1:A:221:LEU:O	1:A:224:PHE:HD1	1.94	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:100:LEU:HD12	1:B:112:ASP:C	2.32	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:877:PRO:O	2:C:878:SER:C	2.50	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:703:ASN:CG	3:D:704:ARG:N	2.65	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:1156:ALA:C	3:D:1158:GLY:H	2.15	0.50
3:D:1212:MET:HE2	4:E:16:LYS:HD2	1.94	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: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:117:ASP:C	3:D:119:PHE:N	2.66	0.50
3:D:126:VAL:N	3:D:456:MET:HE2	2.26	0.50
3:D:897:GLN:OE1	3:D:902:MET:HG2	2.12	0.50
3:D:1157:LEU:O	3:D:1157:LEU:CD2	2.57	0.50
2:C:399:ASN:CB	2:C:568:ALA:HB3	2.42	0.49
2:C:566:THR:C	2:C:568:ALA:H	2.15	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
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:194:LEU:O	1:A:195:THR:CB	2.59	0.49
1:B:41:ARG:HD3	1:B:41:ARG:C	2.32	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:493:ARG:HH22	3:D:1070:GLU:CD	2.16	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:910:THR:C	2:C:912:PRO:HD2	2.33	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:E:68:LEU:C	4:E:70:THR:H	2.15	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:224:GLU:C	2:C:226:VAL:N	2.65	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
2:C:699:PHE:O	2:C:701:THR:N	2.45	0.49
2:C:875:GLY:O	2:C:876:VAL:C	2.49	0.49
3:D:492:ALA:O	3:D:495:ARG:HB2	2.12	0.49
3:D:558:LEU:C	3:D:560:GLN:N	2.66	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:19:HIS:C	1:A:19:HIS:ND1	2.65	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:A:220:HIS:O	1:A:221:LEU:C	2.50	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:134:ARG:HH22	2:C:392:SER:C	2.14	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:323:ASP:C	2:C:325:ILE:H	2.13	0.49
2:C:504:GLU:O	2:C:506:ASP:N	2.44	0.49
2:C:629:ALA:C	2:C:630:ARG:HD3	2.33	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:124:PRO:O	1:A:125:ASP:C	2.51	0.49
1:A:206:PRO:O	1:A:207:LEU:C	2.50	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:252:LYS:HZ3	2:C:293:PHE:HA	1.78	0.49
2:C:320:HIS:C	2:C:322:VAL:H	2.14	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: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: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
2:C:642:ARG:N	2:C:656:ALA:HA	2.27	0.49
3:D:94:GLU:O	3:D:95:LEU:C	2.51	0.49
3:D:615:ARG:O	3:D:618:LEU:HB2	2.13	0.49
3:D:675:ARG:CA	3:D:678:GLU:HB3	2.37	0.49
3:D:810:GLU:C	3:D:812:ALA:N	2.65	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:62:LEU:O	1:B:63:HIS:C	2.50	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
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:86:VAL:H	1:B:123:ASN:CG	2.16	0.49
1:B:121:ILE:HG22	1:B:121:ILE:O	2.12	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:604:VAL:HG11	2:C:619:ARG:HH22	1.77	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:537:THR:O	3:D:537:THR:HG22	2.12	0.49
3:D:894:LYS:O	3:D:895:VAL:C	2.49	0.49
3:D:1015:ASN:C	3:D:1016:TYR:CG	2.83	0.49
1:A:38:ASN:HD21	1:A:41:ARG:HH22	1.61	0.49
1:A:98:LEU:C	1:A:99:ILE:HG13	2.33	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
2:C:728:HIS:O	2:C:730:SER:N	2.45	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:636:GLN:NE2	3:D:642:CYS:HA	2.28	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: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
1:B:180:VAL:O	1:B:180:VAL:HG13	2.13	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: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:946:ARG:HH12	2:C:984:GLU:C	2.17	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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
3:D:70:GLY:C	3:D:72:VAL:H	2.16	0.48
3:D:680:GLN:O	3:D:681:ARG:HG3	2.12	0.48
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: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: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:976:ASP:C	2:C:978:ARG:H	2.16	0.48
2:C:1060:ILE:CG2	2:C:1064:ASN:HD21	2.12	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
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: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: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:1124:PHE:HE2	3:D:1185:ARG:HA	1.77	0.48
3:D:1253:ILE:C	3:D:1255:GLN:N	2.65	0.48
3:D:1348:TYR:CZ	3:D:1352:GLU:HG2	2.48	0.48
1:A:222:ASN:C	1:A:224:PHE:N	2.67	0.48
2:C:95:TYR:HB3	2:C:114:PHE:HA	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:479:VAL:O	2:C:480:THR:HG22	2.13	0.48
2:C:568:ALA:HB2	2:C:668:LEU:HD22	1.94	0.48
2:C:728:HIS:C	2:C:730:SER:N	2.65	0.48
2:C:854:PRO:O	2:C:855:VAL:C	2.51	0.48
3:D:123:LEU:O	3:D:124:GLU:C	2.51	0.48
3:D:149:LYS:O	3:D:150:ARG:C	2.51	0.48
3:D:765:SER:HB2	3:D:769:LEU:HD12	1.96	0.48
3:D:924:MET:O	3:D:925:GLU:C	2.51	0.48
3:D:1012:PHE:O	3:D:1013:GLU:C	2.52	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:88:ARG:HB3	1:B:122:MET:HE1	1.95	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: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: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:335:THR:O	2:C:336:VAL:C	2.52	0.48
2:C:346:VAL:O	2:C:347:GLY:C	2.52	0.48
2:C:399:ASN:HD21	2:C:401:LEU:N	2.09	0.48
2:C:400:PRO:O	2:C:401:LEU:C	2.51	0.48
2:C:733:ALA:O	2:C:734:LEU:C	2.51	0.48
3:D:1079:ARG:O	3:D:1080:LYS:C	2.51	0.48
3:D:1156:ALA:C	3:D:1158:GLY:N	2.66	0.48
3:D:1257:LEU:O	3:D:1259:ARG:N	2.45	0.48
3:D:1344:ALA:O	3:D:1345:VAL:C	2.51	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:161:ILE:CD1	1:A:162:ASN:HD21	2.25	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:324:ASP:O	2:C:326:ASP:N	2.46	0.48
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
3:D:571:LYS:C	3:D:573:MET:N	2.66	0.48
3:D:656:PHE:CD2	3:D:698:LYS:NZ	2.82	0.48
3:D:1157:LEU:H	3:D:1183:GLU:CD	2.17	0.48
3:D:1422:LEU:C	3:D:1422:LEU:HD23	2.34	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:466:PHE:C	2:C:466:PHE:HD1	2.17	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
3:D:1152:ARG:O	3:D:1153:GLU:C	2.51	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: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
3:D:462:GLN:HA	3:D:512:MET:SD	2.54	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:979:TYR:CG	3:D:989:ARG:HD2	2.49	0.48
3:D:1330:ALA:O	3:D:1331:ILE:C	2.51	0.48
1:A:76:VAL:O	1:A:77:GLU:C	2.52	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
2:C:48:PHE:O	2:C:49:LYS:C	2.51	0.48
2:C:149:THR:CG2	2:C:150:PRO:HD2	2.44	0.48
2:C:223:ASP:C	2:C:225:ALA:H	2.18	0.48
2:C:588:VAL:HG21	2:C:666:LEU:HA	1.96	0.48
3:D:973:ARG:C	3:D:975:ILE:H	2.17	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
3:D:1336:LEU:HD23	3:D:1336:LEU:C	2.33	0.48
3:D:1426:THR:C	3:D:1428:SER:N	2.67	0.48
4:E:91:ARG:HB3	4:E:92:LEU:CD1	2.43	0.48
1:A:34:VAL:C	1:A:36:LEU:N	2.67	0.47
1:A:38:ASN:O	1:A:39:PRO:C	2.52	0.47
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
3:D:480:GLU:O	3:D:493:ARG:NH2	2.46	0.47
3:D:1230:ILE:HG22	3:D:1357:TYR:OH	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:238:LEU:O	2:C:241:LEU:N	2.47	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
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:1315:LYS:O	3:D:1316:ASP:C	2.52	0.47
3:D:1431:SER:O	3:D:1432:THR:HB	2.15	0.47
3:D:1485:THR:HG21	4:E:79:LEU:HB2	1.96	0.47
1:A:222:ASN:O	1:A:223:TYR:C	2.53	0.47
1:B:14:THR:O	1:B:15:THR:O	2.32	0.47
1:B:144:ASP:CG	1:B:145:ARG:H	2.18	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:379:GLU:O	2:C:380:ALA:C	2.51	0.47
2:C:489:SER:O	2:C:490:GLU:CB	2.61	0.47
2:C:685:GLU:OE1	2:C:685:GLU:HA	2.13	0.47
2:C:882:LEU:CD1	2:C:884:GLN:HE21	2.27	0.47
2:C:963:LEU:O	2:C:964:LYS:C	2.52	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
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:187:GLN:HG2	3:D:688:TRP:HD1	1.80	0.47
2:C:26:TYR:HB2	2:C:121:MET:HE1	1.95	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:420:ARG:HD3	2:C:420:ARG:N	2.25	0.47
2:C:514:VAL:C	2:C:516:ARG:H	2.17	0.47
2:C:589:ARG:NH2	2:C:654:LEU:HA	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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: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:40:LEU:C	4:E:42:PRO:HD2	2.34	0.47
4:E:86:GLN:O	4:E:89:MET:HB2	2.13	0.47
1:A:83:LYS:HZ2	2:C:698:ASP:HB2	1.80	0.47
1:B:78:ILE:HG13	1:B:128:ILE:O	2.15	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:324:ASP:C	2:C:326:ASP:N	2.66	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: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: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:1200:GLY:C	3:D:1202:CYS:H	2.15	0.47
4:E:14:ASP:CG	4:E:15:SER:N	2.67	0.47
1:A:18:ASP:HA	1:A:205:THR:OG1	2.15	0.47
1:B:31:GLY:H	1:B:192:ASP:CG	2.17	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:257:LEU:HD22	2:C:264:PRO:CD	2.38	0.47
2:C:308:ARG:C	2:C:310:LEU:N	2.68	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

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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	0.47
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
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: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
2:C:1113:GLU:C	2:C:1115:LEU:N	2.64	0.47
3:D:26:VAL:C	3:D:28:LYS:N	2.68	0.47
3:D:24(U):UNK:O	3:D:41(U):UNK:HA	2.15	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:947:ILE:O	3:D:947:ILE:CG1	2.63	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:1257:LEU:O	3:D:1258:PRO:C	2.53	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:6:LEU:C	1:A:8:ALA:N	2.66	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: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:763:GLY:O	2:C:764:GLU:C	2.52	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:547:LEU:HD13	3:D:577:ALA:C	2.35	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:1214:ARG:HG3	3:D:1215:PRO:CD	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:100:LEU:HD11	1:A:137:LEU:HD23	1.97	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:810:GLU:O	3:D:810:GLU:HG2	2.14	0.47
3:D:932:ASP:O	3:D:933:ALA:C	2.53	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
1:B:89:PHE:HZ	1:B:145:ARG:HE	1.55	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:434:HIS:C	2:C:436:GLY:N	2.68	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
3:D:87:ARG:CB	3:D:522:PRO:HG2	2.45	0.47
3:D:502:PHE:C	3:D:504:ASP:H	2.19	0.47
3:D:552:ASN:O	3:D:554:LEU:N	2.47	0.47
3:D:760:ARG:NH2	4:E:3:GLU:OE2	2.48	0.47
3:D:910:SER:O	3:D:911:LEU:C	2.54	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: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
3:D:1345:VAL:O	3:D:1346:GLU:C	2.53	0.47
1:A:79:ILE:HD11	1:A:164:ILE:HG13	1.97	0.46
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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: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:252:LYS:HZ1	2:C:293:PHE:H	1.64	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: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
3:D:546:ARG:HH21	3:D:577:ALA:HA	1.79	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:46:ALA:O	2:C:47:ALA:C	2.53	0.46
2:C:63:GLY:O	2:C:64:LEU:HB2	2.16	0.46
2:C:257:LEU:O	2:C:258:PHE:C	2.53	0.46
2:C:356:ARG:O	2:C:356:ARG:HD2	2.16	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:710:ARG:C	3:D:712:GLY:H	2.19	0.46
3:D:718:PRO:O	3:D:719:VAL:HG23	2.15	0.46
3:D:1050:SER:O	3:D:1051:GLY:C	2.54	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:35:PRO:C	2:C:37:GLU:H	2.17	0.46
2:C:96:ALA:O	2:C:98:LEU:HG	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:390:GLN:CD	2:C:413:LEU:O	2.53	0.46
2:C:420:ARG:H	2:C:420:ARG:CD	2.20	0.46
2:C:423:ALA:C	2:C:427:VAL:HG21	2.35	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: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:673:ALA:O	3:D:676:MET:N	2.48	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
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: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:795:GLY:O	2:C:796:GLU:C	2.54	0.46
2:C:833:LEU:C	2:C:834:GLN:HG3	2.35	0.46
2:C:857:ASP:O	2:C:858:MET:HB2	2.15	0.46
2:C:881:ASN:ND2	3:D:1035:GLN:OE1	2.49	0.46
2:C:996:LYS:NZ	2:C:1000:MET:HE3	2.31	0.46
2:C:1034:GLU:OE1	3:D:1097:ARG:NH1	2.49	0.46
3:D:21:TRP:O	3:D:23:TYR:N	2.48	0.46
3:D:131:LYS:O	3:D:132:TYR:C	2.54	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
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: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:440:PRO:HD2	2:C:456:ALA:N	2.31	0.46
2:C:554:ASP:O	2:C:555:ALA:C	2.54	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:892:LEU:C	2:C:894:GLY:N	2.68	0.46
2:C:944:LEU:HD21	2:C:963:LEU:CD2	2.46	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
1:A:208:GLU:O	1:A:212:GLN:HG3	2.15	0.46
1:B:187:GLN:O	1:B:188:ARG:C	2.53	0.46
2:C:440:PRO:HG2	2:C:454:SER:O	2.16	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: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:1126:MET:CE	3:D:1133:LEU:HD21	2.45	0.46
3:D:1180:GLU:C	3:D:1182:GLY:N	2.70	0.46
3:D:1232:GLU:CB	3:D:1233:PRO:HD3	2.33	0.46
4:E:4:PRO:CB	4:E:66:LYS:HE2	2.41	0.46
1:A:103:GLU:O	1:A:104:GLY:C	2.54	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:323:ASP:O	2:C:324:ASP:C	2.51	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:814:GLU:C	2:C:815:LEU:HD12	2.36	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
1:A:19:HIS:O	1:A:20:TYR:O	2.34	0.46
1:A:123:ASN:C	1:A:124:PRO:O	2.53	0.46
1:A:127:HIS:C	1:A:127:HIS:CD2	2.88	0.46
1:B:154:ARG:HD3	1:B:154:ARG:HA	1.71	0.46
2:C:145:GLY:O	2:C:162:ILE:N	2.45	0.46
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: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:545:ARG:C	3:D:547:LEU:N	2.67	0.46
3:D:1173:HIS:O	3:D:1176:ILE:HB	2.16	0.46
3:D:1386:GLY:C	3:D:1388:SER:H	2.19	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
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:20:GLU:O	2:C:21:ILE:C	2.53	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:216:ASP:O	2:C:217:LEU:C	2.54	0.45
2:C:327:HIS:C	2:C:329:GLY:N	2.69	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: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:586:ARG:C	3:D:587:ARG:HD3	2.36	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:856:GLY:C	3:D:857:LEU:HD22	2.36	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:1270:LYS:O	3:D:1271:ALA:C	2.54	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:80:LEU:HD23	1:A:83:LYS:HZ1	1.80	0.45
1:A:142:ARG:C	1:A:143:VAL:HG22	2.36	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:325:ILE:C	2:C:327:HIS:N	2.70	0.45
2:C:380:ALA:O	2:C:384:GLU:HB2	2.17	0.45
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:897:LEU:HG	2:C:899:GLN:CD	2.36	0.45
3:D:77:GLY:C	3:D:79:GLU:H	2.18	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:734:GLU:OE2	3:D:780:LYS:NZ	2.50	0.45
3:D:1080:LYS:C	3:D:1082:GLY:N	2.70	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:564:MET:CE	2:C:846:LYS:HG2	2.46	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:1110:GLU:O	3:D:1203:GLN:CB	2.65	0.45
3:D:1205:CYS:C	3:D:1207:GLY:N	2.70	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:111:VAL:C	1:B:113:PHE:N	2.69	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:281:LEU:C	2:C:283:VAL:H	2.20	0.45
2:C:340:MET:SD	2:C:340:MET:O	2.74	0.45
2:C:520:GLU:O	2:C:521:PRO:C	2.54	0.45
2:C:708:TYR:N	2:C:708:TYR:CD1	2.84	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:701:LEU:HD21	3:D:763:MET:HE1	1.98	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:863:THR:C	3:D:864:VAL:CG2	2.85	0.45
3:D:958:PRO:O	3:D:959:GLU:C	2.54	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:1077:GLY:O	3:D:1078:ALA:C	2.55	0.45
3:D:1484:PHE:HB2	4:E:76:GLY:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:121:ILE:O	1:A:122:MET:C	2.55	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:442:GLU:HG3	2:C:442:GLU:O	2.15	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:745:ILE:C	2:C:747:ALA:H	2.20	0.45
2:C:755:LEU:HD12	2:C:756:VAL:HG23	1.97	0.45
3:D:469:ASP:O	3:D:470:LEU:C	2.55	0.45
3:D:890:VAL:CG1	3:D:891:GLY:H	2.25	0.45
3:D:985:THR:O	3:D:986:ASP:C	2.54	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:1463:LEU:O	3:D:1464:LYS:C	2.55	0.45
4:E:68:LEU:C	4:E:70:THR:N	2.69	0.45
1:A:65:PHE:HD2	2:C:628:TYR:CE2	2.35	0.45
1:A:77:GLU:O	1:A:78:ILE:C	2.54	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
3:D:899:LEU:O	3:D:900:ILE:HG13	2.16	0.45
3:D:993:VAL:O	3:D:996:LEU:HB3	2.17	0.45
3:D:1252:ASP:C	3:D:1254:THR:N	2.70	0.45
1:B:85:LEU:C	1:B:123:ASN:HD21	2.19	0.45
1:B:97:THR:HA	1:B:142:ARG:HA	1.98	0.45
1:B:122:MET:N	1:B:122:MET:HE3	2.32	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: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:462:GLN:O	3:D:463:GLU:C	2.54	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1080:LYS:C	3:D:1082:GLY:H	2.19	0.45
1:A:180:VAL:O	1:A:181:GLU:C	2.55	0.45
1:B:56:VAL:HG11	1:B:58:ILE:HD11	1.99	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:321:GLU:O	2:C:322:VAL:C	2.56	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
3:D:15:PRO:HD3	3:D:510:GLU:HB3	1.98	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: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:1126:MET:CG	3:D:1127:ASP:N	2.78	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
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: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:699:VAL:HA	3:D:716:PHE:O	2.17	0.45
3:D:770:LEU:O	3:D:771:SER:HB2	2.16	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
1:B:30:ARG:HG3	1:B:30:ARG:O	2.17	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:614:ARG:O	2:C:615:TYR:CB	2.65	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:638:LYS:O	3:D:639:LEU:CB	2.65	0.45
3:D:728:LEU:HD13	3:D:745:MET:HE3	1.98	0.45
3:D:1146:TYR:HD2	3:D:1147:GLY:N	2.13	0.45
3:D:1317:GLY:O	3:D:1318:ASP:CB	2.64	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:133:GLU:CD	1:B:134:GLY:H	2.19	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:552:HIS:CE1	3:D:1065:GLY:CA	3.00	0.44
2:C:610:ARG:O	2:C:611:ILE:C	2.54	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:17:LYS:O	3:D:18:ILE:C	2.54	0.44
3:D:151:GLN:O	3:D:152:LEU:C	2.55	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: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: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:117:ASP:C	3:D:119:PHE:H	2.19	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:196:LEU:H	1:A:196:LEU:CD2	2.31	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
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: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: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:925:GLU:HG2	3:D:926:LYS:N	2.33	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
1:B:159:ASP:O	1:B:160:ARG:C	2.56	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:526:PRO:O	2:C:527:GLU:C	2.55	0.44
2:C:882:LEU:CD1	2:C:884:GLN:NE2	2.80	0.44
2:C:987:ILE:HD11	3:D:946:GLY:C	2.38	0.44
2:C:1032:PHE:HB2	3:D:623:VAL:CG2	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:694:VAL:O	3:D:695:ILE:C	2.56	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:1349:LEU:HG	3:D:1376:MET:CE	2.47	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: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
2:C:218:VAL:O	2:C:219:GLN:C	2.55	0.44
2:C:494:TYR:O	2:C:495:THR:OG1	2.33	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:920:GLU:C	2:C:922:PHE:N	2.68	0.44
2:C:949:LYS:C	2:C:951:GLY:H	2.19	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:1224:VAL:C	3:D:1226:ALA:H	2.21	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:100:LEU:C	2:C:100:LEU:HD12	2.38	0.44
2:C:141:HIS:CE1	2:C:334:ARG:HG3	2.53	0.44
2:C:355:VAL:CG1	2:C:356:ARG:N	2.80	0.44
2:C:457:ALA:C	2:C:459:ALA:N	2.70	0.44
2:C:525:ALA:O	2:C:526:PRO:C	2.56	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:780:GLU:O	2:C:781:LYS:C	2.55	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:870:ILE:O	2:C:870:ILE:CG2	2.63	0.44
2:C:885:ILE:C	2:C:887:GLU:H	2.21	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: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: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
3:D:1373:VAL:HG22	3:D:1376:MET:CE	2.47	0.44
1:A:32:PHE:N	1:A:32:PHE:HD1	2.16	0.44
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
1:B:86:VAL:HG23	1:B:123:ASN:OD1	2.16	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:831:GLY:C	3:D:833:GLU:H	2.21	0.44
3:D:950:ILE:H	3:D:950:ILE:HG13	1.63	0.44
3:D:1018:PHE:O	3:D:1019:ASN:C	2.55	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
1:B:184:ARG:C	1:B:186:GLY:N	2.70	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:234:ALA:O	2:C:235:MET:C	2.55	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:536:PRO:O	2:C:537:LYS:C	2.56	0.44
2:C:563:ASN:O	2:C:564:MET:C	2.55	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
3:D:81:THR:O	3:D:82:ARG:CB	2.66	0.44
3:D:543:LEU:C	3:D:545:ARG:H	2.20	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:1179:ALA:HA	3:D:1184:VAL:O	2.18	0.44
3:D:1259:ARG:C	3:D:1261:ILE:H	2.19	0.44
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: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: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
2:C:699:PHE:C	2:C:701:THR:H	2.21	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:495:ARG:O	3:D:496:LEU:C	2.56	0.44
3:D:659:LYS:HD3	3:D:659:LYS:C	2.38	0.44
3:D:711:LEU:HB3	3:D:735:ALA:HB1	1.99	0.44
3:D:794:GLN:O	3:D:795:VAL:CB	2.66	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:1142:GLU:C	3:D:1144:GLY:H	2.22	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
2:C:89:THR:HG23	2:C:129:ILE:HG12	2.00	0.43
2:C:258:PHE:N	2:C:258:PHE:HD1	2.15	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:735:ARG:C	2:C:737:LEU:N	2.62	0.43
2:C:862:PRO:HA	2:C:975:TYR:HE1	1.77	0.43
2:C:1112:PHE:C	2:C:1114:GLY:N	2.71	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: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
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: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
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:645:PRO:HG3	3:D:724:GLN:C	2.38	0.43
3:D:767:HIS:O	3:D:769:LEU:N	2.47	0.43
3:D:810:GLU:C	3:D:812:ALA:H	2.20	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:654:LEU:HD21	2:C:657:ASP:CG	2.38	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
3:D:100:ALA:HA	3:D:575:GLN:OE1	2.18	0.43
3:D:710:ARG:O	3:D:712:GLY:N	2.51	0.43
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: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:1327:THR:C	3:D:1329:GLY:N	2.71	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: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: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:193:LEU:HD13	2:C:193:LEU:C	2.38	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
2:C:1112:PHE:C	2:C:1114:GLY:H	2.22	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:571:LYS:C	3:D:573:MET:H	2.21	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:E:9:LEU:C	4:E:11:GLY:N	2.71	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: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
2:C:551:GLU:CD	2:C:906:PHE:H	2.22	0.43
2:C:1005:MET:HB2	3:D:629:SER:HB2	2.01	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: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:514:VAL:C	2:C:516:ARG:N	2.72	0.43
2:C:521:PRO:O	2:C:522:VAL:C	2.56	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:1011:GLY:O	2:C:1012:PRO:C	2.56	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: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:1374:ARG:O	3:D:1377:LEU:N	2.52	0.43
1:B:19:HIS:CD2	1:B:19:HIS:N	2.86	0.43
1:B:159:ASP:O	1:B:159:ASP:CG	2.57	0.43
1:B:218:LYS:O	1:B:219:GLU:C	2.57	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:555:ALA:O	2:C:556:ASN:C	2.57	0.43
2:C:922:PHE:CE2	2:C:964:LYS:HB2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:940:THR:O	3:D:943:THR:HB	2.19	0.43
3:D:1017:PRO:HG2	3:D:1018:PHE:CD1	2.54	0.43
3:D:1262:GLU:CD	3:D:1269:PRO:CB	2.87	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:668:LEU:HD23	2:C:668:LEU:HA	1.79	0.43
2:C:735:ARG:C	2:C:737:LEU:H	2.13	0.43
2:C:754:ILE:HD13	2:C:791:ARG:CG	2.48	0.43
2:C:920:GLU:C	2:C:922:PHE:H	2.22	0.43
2:C:964:LYS:HB2	2:C:964:LYS:HZ3	1.84	0.43
3:D:95:LEU:O	3:D:96:ALA:CB	2.64	0.43
3:D:638:LYS:C	3:D:729:HIS:CD2	2.92	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:B:16:GLN:HB2	1:B:20:TYR:O	2.19	0.43
1:B:86:VAL:HG13	1:B:202:GLY:HA2	2.01	0.43
1:B:170:PHE:O	1:B:171:SER:OG	2.36	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: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:1033:PRO:O	3:D:1034:GLN:C	2.57	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
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:222:LEU:O	2:C:223:ASP:C	2.56	0.43
2:C:257:LEU:C	2:C:259:GLY:N	2.69	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:290:LEU:HD12	2:C:300:ASP:N	2.34	0.43
2:C:412:ALA:C	2:C:414:GLY:H	2.21	0.43
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: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:882:PHE:C	3:D:884:ARG:N	2.71	0.43
3:D:899:LEU:C	3:D:900:ILE:CG1	2.88	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:706:GLU:CD	2:C:707:ARG:N	2.71	0.42
2:C:731:GLU:C	2:C:733:ALA:N	2.72	0.42
2:C:910:THR:CB	2:C:912:PRO:HD2	2.49	0.42
2:C:1021:LEU:HG	3:D:622:ARG:HG3	2.00	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:795:VAL:CG1	3:D:796:ARG:N	2.82	0.42
3:D:1102:VAL:HG12	3:D:1375:GLN:HB3	2.01	0.42
3:D:1364:LEU:CG	3:D:1365:HIS:H	2.32	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: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:414:GLY:C	2:C:419:THR:HG21	2.39	0.42
2:C:549:PHE:O	2:C:550:LEU:C	2.58	0.42
2:C:872:ASN:ND2	2:C:874:LEU:H	2.17	0.42
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:490:ALA:O	3:D:491:LYS:C	2.58	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:855:HIS:O	3:D:856:GLY:C	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:936:TYR:O	3:D:937:TYR:C	2.57	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:117:ALA:C	1:B:119:VAL:N	2.73	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:25:SER:O	2:C:26:TYR:C	2.57	0.42
2:C:66:LEU:HD11	2:C:98:LEU:HB3	2.01	0.42
2:C:325:ILE:O	2:C:326:ASP:C	2.57	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:583:LEU:O	2:C:584:GLU:C	2.57	0.42
2:C:688:ILE:CG2	2:C:869:VAL:HG23	2.49	0.42
2:C:858:MET:HE3	2:C:867:VAL:HG23	2.01	0.42
2:C:939:ARG:NH2	2:C:975:TYR:CZ	2.87	0.42
3:D:92:HIS:O	3:D:93:ILE:C	2.58	0.42
3:D:538:SER:O	3:D:539:ASP:C	2.57	0.42
3:D:647:ARG:HA	3:D:647:ARG:HD2	1.82	0.42
3:D:772:PRO:HG3	3:D:778:LEU:CD2	2.49	0.42
3:D:1060:SER:C	3:D:1062:PHE:H	2.23	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: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
2:C:56:GLU:HG2	2:C:57:GLY:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:181:VAL:O	2:C:182:VAL:C	2.58	0.42
2:C:201:GLY:O	2:C:202:TYR:O	2.37	0.42
2:C:253:ALA:C	2:C:255:ALA:N	2.73	0.42
2:C:497:ALA:HA	2:C:502:PRO:CG	2.45	0.42
2:C:672:VAL:HG13	2:C:868:ASP:HB2	2.01	0.42
2:C:920:GLU:O	2:C:921:ALA:C	2.58	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:472:LYS:C	3:D:474:GLU:N	2.73	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
3:D:864:VAL:HA	3:D:875:THR:C	2.40	0.42
3:D:1060:SER:HG	3:D:1068:VAL:CG2	2.32	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:232:GLU:O	2:C:233:GLU:C	2.58	0.42
2:C:745:ILE:C	2:C:747:ALA:N	2.73	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: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:896:ALA:O	3:D:897:GLN:C	2.57	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:1070:GLU:C	3:D:1072:PHE:H	2.23	0.42
3:D:1087:LEU:CA	3:D:1090:ALA:HB3	2.49	0.42
3:D:1232:GLU:OE1	3:D:1233:PRO:HG3	2.19	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:421:GLU:C	2:C:423:ALA:N	2.73	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:1070:ILE:N	2:C:1070:ILE:HD12	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:1084:ASP:C	3:D:1086:ALA:N	2.73	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
1:A:38:ASN:CG	1:A:41:ARG:HH12	2.23	0.42
2:C:317:VAL:N	2:C:318:PRO:CD	2.82	0.42
2:C:493:ARG:NH2	3:D:1070:GLU:CD	2.73	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:685:ASP:C	3:D:687:VAL:N	2.72	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:1067:THR:O	3:D:1068:VAL:C	2.57	0.42
3:D:1121:VAL:HA	3:D:1122:PRO:HD2	1.92	0.42
3:D:1408:LEU:O	3:D:1410:ALA:N	2.53	0.42
3:D:1480:ASP:C	3:D:1482:VAL:H	2.23	0.42
1:A:34:VAL:O	1:A:35:THR:C	2.57	0.42
1:A:103:GLU:C	1:A:135:GLY:HA3	2.40	0.42
1:B:80:LEU:C	1:B:82:LEU:N	2.73	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:943:VAL:O	2:C:944:LEU:C	2.56	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1087:LEU:HG	3:D:1087:LEU:O	2.19	0.42
3:D:1095:LEU:O	3:D:1096:THR:C	2.57	0.42
3:D:1110:GLU:OE2	3:D:1197:THR:HG21	2.20	0.42
3:D:1476:GLY:C	3:D:1478:GLY:N	2.71	0.42
4:E:13:VAL:HG12	4:E:75:PHE:CZ	2.55	0.42
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:105:PRO:O	1:B:106:LYS:HD3	2.19	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: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:692:GLU:O	2:C:693:GLU:C	2.59	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: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:1170:GLU:O	3:D:1173:HIS:HB2	2.20	0.42
3:D:1200:GLY:C	3:D:1202:CYS:N	2.72	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
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:224:GLU:C	2:C:226:VAL:H	2.23	0.42
2:C:253:ALA:C	2:C:256:TYR:H	2.23	0.42
2:C:384:GLU:O	2:C:388:ARG:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:C:872:ASN:ND2	2:C:874:LEU:HB3	2.24	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:631:ILE:CD1	3:D:745:MET:HE2	2.35	0.42
3:D:636:GLN:C	3:D:638:LYS:H	2.24	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:941:LEU:C	3:D:943:THR:N	2.73	0.42
3:D:954:ASP:O	3:D:955:ALA:CB	2.68	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:9:LEU:C	4:E:11:GLY:H	2.22	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: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:581:THR:O	2:C:582:GLY:C	2.58	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:662:GLU:OE1	3:D:662:GLU:C	2.58	0.41
3:D:761:ILE:HG22	3:D:762:GLN:N	2.35	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
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:A:31:GLY:C	1:A:33:GLY:H	2.23	0.41
1:B:26:GLU:O	1:B:27:PRO:C	2.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:165:LEU:C	2:C:167:LYS:N	2.73	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
2:C:437:ARG:C	2:C:438:ILE:HG12	2.40	0.41
2:C:662:GLU:O	2:C:663:GLU:C	2.57	0.41
2:C:677:MET:CA	2:C:873:PRO:HD3	2.49	0.41
2:C:705:ILE:HD12	2:C:705:ILE:C	2.40	0.41
2:C:787:ASP:C	2:C:787:ASP:OD1	2.58	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:452:ILE:O	3:D:453:ASP:C	2.57	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:1337:LEU:HB2	3:D:1345:VAL:HG21	2.02	0.41
3:D:1463:LEU:C	3:D:1465:GLU:N	2.73	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
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: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:841:ASN:ND2	2:C:841:ASN:C	2.71	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:492:ALA:O	3:D:493:ARG:C	2.59	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:636:GLN:HB3	3:D:641:GLN:HB2	2.01	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
3:D:1144:GLY:C	3:D:1145:LEU:HD23	2.41	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:52:PHE:O	2:C:53:PRO:C	2.56	0.41
2:C:54:ILE:CD1	2:C:359:MET:HE2	2.50	0.41
2:C:101:ILE:CG2	2:C:102:HIS:N	2.69	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:419:THR:O	2:C:420:ARG:C	2.58	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:1232:GLU:C	3:D:1234:GLY:N	2.73	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
3:D:1479:SER:O	3:D:1480:ASP:C	2.59	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:34:VAL:CG1	2:C:35:PRO:N	2.83	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: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
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
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:613:VAL:O	2:C:614:ARG:C	2.58	0.41
2:C:750:LYS:HE2	2:C:753:ASP:OD1	2.21	0.41
3:D:663:GLU:O	3:D:665:ALA:N	2.53	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
3:D:1386:GLY:C	3:D:1388:SER:N	2.74	0.41
3:D:1467:VAL:O	3:D:1468:ILE:C	2.59	0.41
4:E:91:ARG:C	4:E:92:LEU:HD12	2.41	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: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
3:D:590:PRO:CA	3:D:600:LEU:HD21	2.50	0.41
3:D:732:VAL:O	3:D:733:CYS:C	2.59	0.41
3:D:734:GLU:O	3:D:735:ALA:C	2.57	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
1:A:42:ARG:HH12	2:C:857:ASP:CG	2.24	0.41
1:B:94:TRP:NE1	1:B:96:THR:HG23	2.36	0.41
1:B:170:PHE:C	1:B:171:SER:OG	2.59	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:565:GLN:HB2	2:C:995:MET:CE	2.50	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
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:773:LEU:O	2:C:774:LEU:C	2.59	0.41
2:C:845:ASN:HD21	2:C:876:VAL:CG1	2.33	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1068:VAL:C	3:D:1070:GLU:H	2.22	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:1222:VAL:O	3:D:1223:GLY:C	2.59	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: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:95:TYR:HB3	2:C:113:VAL:O	2.21	0.41
2:C:332:ARG:NH1	2:C:465:GLY:O	2.51	0.41
2:C:399:ASN:ND2	2:C:399:ASN:O	2.53	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:676:ILE:HG22	2:C:677:MET:N	2.36	0.41
2:C:744:ARG:O	2:C:747:ALA:CB	2.69	0.41
2:C:915:LYS:CD	2:C:968:ASP:HB3	2.38	0.41
2:C:924:LEU:O	2:C:925:TYR:C	2.59	0.41
2:C:994:ILE:HD13	2:C:994:ILE:N	2.36	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:865:THR:O	3:D:866:THR:C	2.58	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:1282:VAL:HG22	3:D:1315:LYS:CB	2.51	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:905:VAL:O	2:C:906:PHE:HB2	2.21	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:876:ASN:O	3:D:877:PRO:C	2.59	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
1:B:157:ILE:O	1:B:158:LYS:C	2.59	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
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:874:LEU:O	2:C:875:GLY:C	2.59	0.40
2:C:880:MET:C	2:C:881:ASN:ND2	2.75	0.40
2:C:969:LEU:HD12	3:D:950:ILE:HG21	2.03	0.40
2:C:1036:GLU:CD	2:C:1036:GLU:N	2.75	0.40
2:C:1052:MET:HG3	3:D:623:VAL:HG22	2.02	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:721:VAL:CG1	3:D:722:GLU:N	2.61	0.40
3:D:797:LYS:C	3:D:798:GLU:HG2	2.41	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
1:A:142:ARG:HD2	1:A:158:LYS:HE3	2.01	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:750:LYS:HG2	2:C:753:ASP:OD2	2.21	0.40
2:C:842:ARG:NH2	2:C:887:GLU:CD	2.72	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:14:SER:C	3:D:17:LYS:H	2.23	0.40
3:D:543:LEU:HB3	3:D:581:VAL:CG2	2.51	0.40
3:D:583:ASP:C	3:D:585:GLY:H	2.23	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: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
3:D:1458:ASP:C	3:D:1460:LEU:N	2.73	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
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:30:LEU:O	2:C:32:ALA:N	2.54	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:209:ARG:O	2:C:210:GLU:HB2	2.21	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:987:ILE:C	3:D:948:ILE:HG21	2.41	0.40
2:C:998:TYR:O	2:C:998:TYR:CG	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:586:ARG:C	3:D:588:GLY:H	2.24	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:973:ARG:C	3:D:975:ILE:N	2.75	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:179:GLN:HG3	2:C:934:PHE:CG	2.55	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
2:C:32:ALA:C	2:C:34:VAL:N	2.73	0.40
2:C:79:SER:O	2:C:80:GLN:C	2.58	0.40
2:C:124:ASP:OD1	2:C:124:ASP:C	2.60	0.40
2:C:171:TRP:HA	2:C:171:TRP:CE3	2.57	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:691:SER:HB2	2:C:858:MET:HE2	2.03	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:976:ASP:C	2:C:978:ARG:N	2.74	0.40
2:C:1107:ASN:OD1	2:C:1107:ASN:O	2.39	0.40
3:D:477:LEU:O	3:D:478:LEU:C	2.59	0.40
3:D:806:PHE:H	3:D:827:ILE:CA	2.31	0.40
3:D:841:PHE:C	3:D:843:PHE:H	2.25	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:990:TYR:CE1	3:D:994:ILE:HD11	2.56	0.40
3:D:1446:HIS:CD2	3:D:1446:HIS:C	2.94	0.40
3:D:1458:ASP:OD1	3:D:1460:LEU:HA	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:97:GLU:C	4:E:98:GLU:HG3	2.42	0.40
1:A:31:GLY:H	1:A:192:ASP:CG	2.23	0.40
1:A:64:GLU:CG	1:A:65:PHE:N	2.84	0.40
1:A:109:ARG:HA	1:A:128:ILE:H	1.87	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:565:GLN:O	2:C:565:GLN:CG	2.69	0.40
2:C:612:ALA:O	2:C:613:VAL:O	2.40	0.40
2:C:1108:PRO:HB3	3:D:3:LYS:NZ	2.37	0.40
3:D:23:TYR:O	3:D:24:GLY:C	2.59	0.40
3:D:573:MET:O	3:D:574:LEU:C	2.58	0.40
3:D:669:ASN:CG	3:D:671:LYS:HG2	2.41	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 [i](#)

5.3.1 Protein backbone [i](#)

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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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%)	163 (86%)	27 (14%)	3 15
1	B	191/271 (70%)	171 (90%)	20 (10%)	7 25

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	C	869/936 (93%)	747 (86%)	122 (14%)	3	16
3	D	782/1036 (76%)	693 (89%)	89 (11%)	5	22
4	E	67/88 (76%)	64 (96%)	3 (4%)	27	58
All	All	2099/2602 (81%)	1838 (88%)	261 (12%)	4	19

All (261) 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	30	ARG
1	A	41	ARG
1	A	47	SER
1	A	57	TYR
1	A	62	LEU
1	A	63	HIS
1	A	95	ARG
1	A	100	LEU
1	A	109	ARG
1	A	112	ASP
1	A	113	PHE
1	A	122	MET
1	A	125	ASP
1	A	142	ARG
1	A	143	VAL
1	A	192	ASP
1	A	194	LEU
1	A	196	LEU
1	A	199	TRP
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	36	LEU
1	B	44	LEU
1	B	56	VAL
1	B	57	TYR

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Mol	Chain	Res	Type
1	B	62	LEU
1	B	86	VAL
1	B	89	PHE
1	B	122	MET
1	B	125	ASP
1	B	127	HIS
1	B	131	LEU
1	B	133	GLU
1	B	170	PHE
1	B	171	SER
1	B	187	GLN
1	B	194	LEU
1	B	196	LEU
1	B	220	HIS
2	C	13	ILE
2	C	36	PRO
2	C	54	ILE
2	C	56	GLU
2	C	67	ASP
2	C	70	GLU
2	C	75	ASP
2	C	95	TYR
2	C	115	LEU
2	C	118	LEU
2	C	139	GLN
2	C	142	ARG
2	C	147	TYR
2	C	155	PRO
2	C	171	TRP
2	C	172	ILE
2	C	177	GLU
2	C	198	ARG
2	C	206	THR
2	C	212	SER
2	C	214	TYR
2	C	216	ASP
2	C	232	GLU
2	C	256	TYR
2	C	258	PHE
2	C	261	LEU
2	C	264	PRO
2	C	267	TYR

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Mol	Chain	Res	Type
2	C	285	LEU
2	C	298	PHE
2	C	299	LYS
2	C	303	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	350	ARG
2	C	356	ARG
2	C	367	LEU
2	C	372	LEU
2	C	391	LEU
2	C	393	GLN
2	C	394	PHE
2	C	399	ASN
2	C	421	GLU
2	C	429	ASP
2	C	434	HIS
2	C	435	TYR
2	C	441	VAL
2	C	443	THR
2	C	448	ASN
2	C	466	PHE
2	C	468	ARG
2	C	502	PRO
2	C	508	ILE
2	C	526	PRO
2	C	534	VAL
2	C	535	SER
2	C	544	THR
2	C	559	LEU
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

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Mol	Chain	Res	Type
2	C	637	PHE
2	C	672	VAL
2	C	674	VAL
2	C	676	ILE
2	C	680	ASP
2	C	686	ASP
2	C	690	ILE
2	C	693	GLU
2	C	698	ASP
2	C	699	PHE
2	C	710	ILE
2	C	723	THR
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	772	ARG
2	C	810	ASP
2	C	834	GLN
2	C	837	ASP
2	C	841	ASN
2	C	846	LYS
2	C	852	ILE
2	C	853	LEU
2	C	861	LEU
2	C	867	VAL
2	C	869	VAL
2	C	873	PRO
2	C	880	MET
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	978	ARG
2	C	983	PHE
2	C	1000	MET
2	C	1005	MET
2	C	1010	THR

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Mol	Chain	Res	Type
2	C	1012	PRO
2	C	1015	LEU
2	C	1017	THR
2	C	1018	GLN
2	C	1031	ARG
2	C	1052	MET
2	C	1055	ILE
2	C	1106	ASP
2	C	1112	PHE
2	C	1115	LEU
3	D	462	GLN
3	D	486	ARG
3	D	502	PHE
3	D	509	PRO
3	D	511	TRP
3	D	517	VAL
3	D	550	ARG
3	D	567	ILE
3	D	587	ARG
3	D	601	ARG
3	D	625	TYR
3	D	651	GLU
3	D	652	LEU
3	D	662	GLU
3	D	674	ARG
3	D	688	TRP
3	D	691	LEU
3	D	702	LEU
3	D	722	GLU
3	D	751	LEU
3	D	752	SER
3	D	754	PHE
3	D	770	LEU
3	D	772	PRO
3	D	778	LEU
3	D	791	TYR
3	D	792	ILE
3	D	794	GLN
3	D	834	THR
3	D	860	LEU
3	D	864	VAL
3	D	879	ARG

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Mol	Chain	Res	Type
3	D	899	LEU
3	D	906	GLN
3	D	914	LEU
3	D	925	GLU
3	D	936	TYR
3	D	941	LEU
3	D	948	ILE
3	D	957	ILE
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	1012	PHE
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	1104	HIS
3	D	1106	ILE
3	D	1109	ARG
3	D	1124	PHE
3	D	1131	ARG
3	D	1138	ARG
3	D	1167	LEU
3	D	1195	CYS
3	D	1197	THR
3	D	1254	THR

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Mol	Chain	Res	Type
3	D	1265	GLU
3	D	1269	PRO
3	D	1274	VAL
3	D	1282	VAL
3	D	1289	ASP
3	D	1292	SER
3	D	1300	PHE
3	D	1305	LYS
3	D	1316	ASP
3	D	1364	LEU
3	D	1383	THR
3	D	1433	LYS
3	D	1435	TRP
3	D	1445	THR
3	D	1448	LEU
4	E	6	ILE
4	E	7	ASP
4	E	32	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (68) 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	155	HIS
1	B	187	GLN
1	B	212	GLN
1	B	220	HIS
1	B	222	ASN
2	C	22	GLN
2	C	31	GLN
2	C	91	GLN
2	C	102	HIS
2	C	139	GLN
2	C	374	ASN
2	C	399	ASN
2	C	538	GLN

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Mol	Chain	Res	Type
2	C	543	ASN
2	C	563	ASN
2	C	565	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	1006	HIS
2	C	1018	GLN
2	C	1026	GLN
2	C	1030	GLN
2	C	1047	HIS
2	C	1064	ASN
2	C	1107	ASN
3	D	507	ASN
3	D	541	ASN
3	D	549	ASN
3	D	551	ASN
3	D	552	ASN
3	D	584	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	917	GLN
3	D	977	GLN
3	D	1038	GLN
3	D	1125	GLN
3	D	1354	GLN

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Mol	Chain	Res	Type
3	D	1368	HIS
3	D	1375	GLN
3	D	1442	GLN
3	D	1446	HIS
3	D	1466	ASN
4	E	59	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

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 [i](#)

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.