



Full wwPDB EM Validation Report ⓘ

Aug 30, 2026 – 12:22 AM JST

PDB ID : 9VM6 / pdb_00009vm6
EMDB ID : EMD-65178
Title : Structure of DOCK6 tetramer
Authors : Kukimoto-Niino, M.; Katsura, K.; Ishizuka-Katsura, Y.; Yonemochi, M.;
Hanada, K.; Shirouzu, M.
Deposited on : 2025-06-27
Resolution : 4.27 Å(reported)

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

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A user guide is available at

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

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev133
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.50

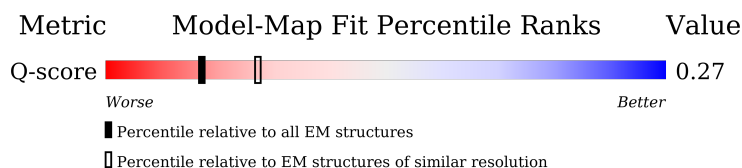
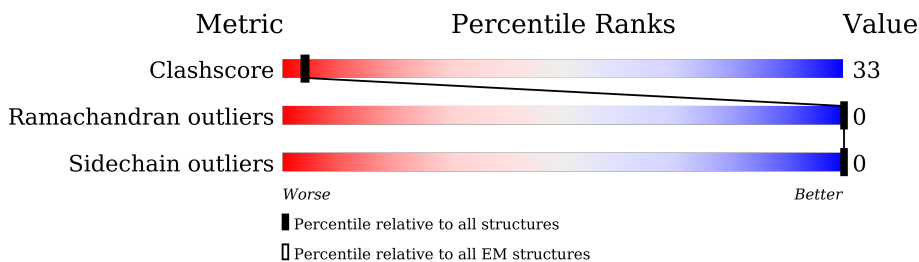
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.27 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	4567 (3.77 - 4.76)

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

Mol	Chain	Length	Quality of chain
1	A	2053	
1	B	2053	
1	C	2053	
1	D	2053	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 53700 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Dedicator of cytokinesis protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1683	Total	C	N	O	S	0	0
			13425	8576	2321	2469	59		
1	C	1683	Total	C	N	O	S	0	0
			13425	8576	2321	2469	59		
1	D	1683	Total	C	N	O	S	0	0
			13425	8576	2321	2469	59		
1	B	1683	Total	C	N	O	S	0	0
			13425	8576	2321	2469	59		

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-5	GLY	-	expression tag	UNP Q96HP0
A	-4	GLY	-	expression tag	UNP Q96HP0
A	-3	SER	-	expression tag	UNP Q96HP0
A	-2	GLY	-	expression tag	UNP Q96HP0
A	-1	GLY	-	expression tag	UNP Q96HP0
A	0	SER	-	expression tag	UNP Q96HP0
C	-5	GLY	-	expression tag	UNP Q96HP0
C	-4	GLY	-	expression tag	UNP Q96HP0
C	-3	SER	-	expression tag	UNP Q96HP0
C	-2	GLY	-	expression tag	UNP Q96HP0
C	-1	GLY	-	expression tag	UNP Q96HP0
C	0	SER	-	expression tag	UNP Q96HP0
D	-5	GLY	-	expression tag	UNP Q96HP0
D	-4	GLY	-	expression tag	UNP Q96HP0
D	-3	SER	-	expression tag	UNP Q96HP0
D	-2	GLY	-	expression tag	UNP Q96HP0
D	-1	GLY	-	expression tag	UNP Q96HP0
D	0	SER	-	expression tag	UNP Q96HP0
B	-5	GLY	-	expression tag	UNP Q96HP0
B	-4	GLY	-	expression tag	UNP Q96HP0
B	-3	SER	-	expression tag	UNP Q96HP0
B	-2	GLY	-	expression tag	UNP Q96HP0

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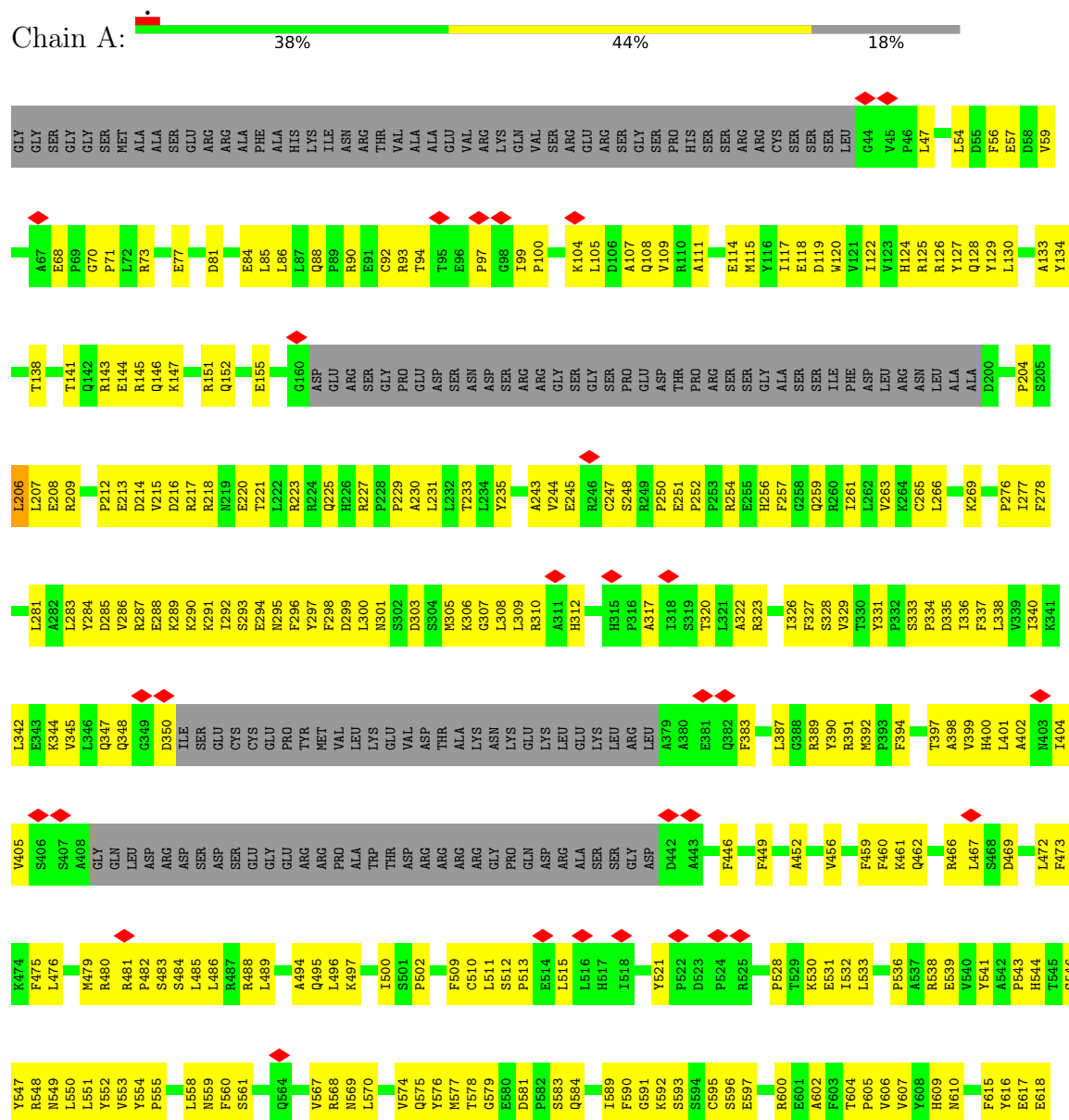
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Chain	Residue	Modelled	Actual	Comment	Reference
B	-1	GLY	-	expression tag	UNP Q96HP0
B	0	SER	-	expression tag	UNP Q96HP0

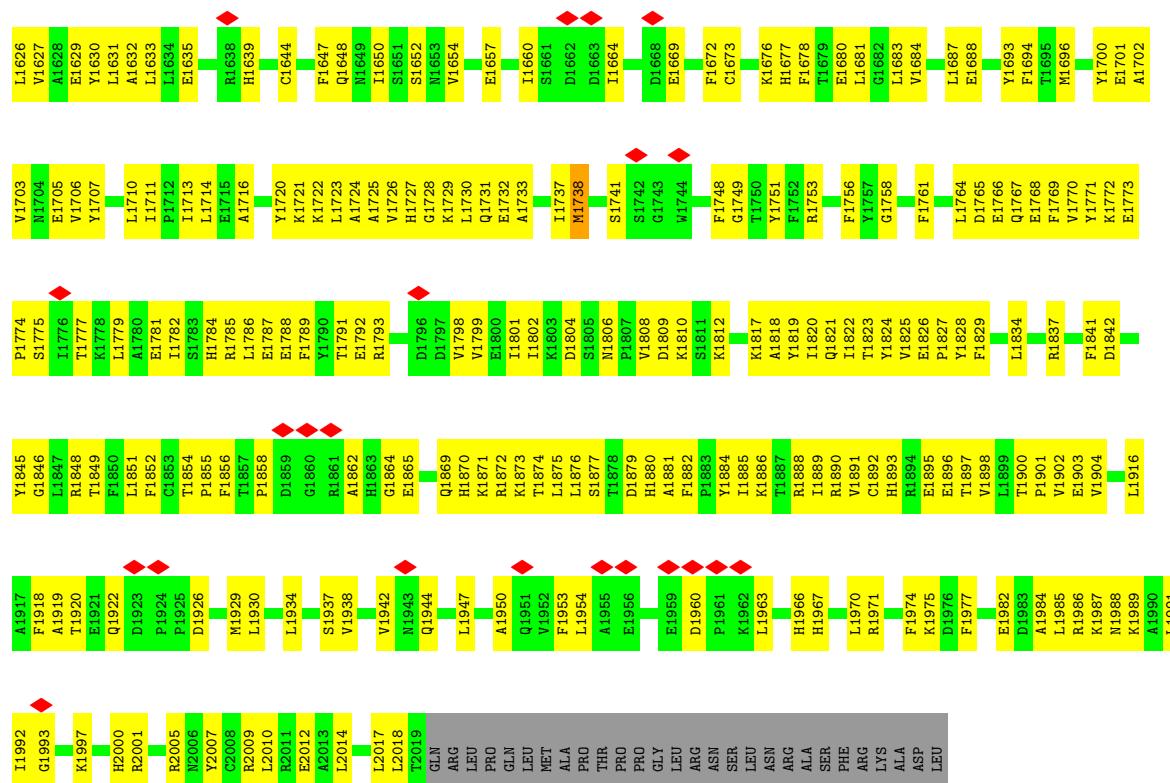
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: Dedicator of cytokinesis protein 6

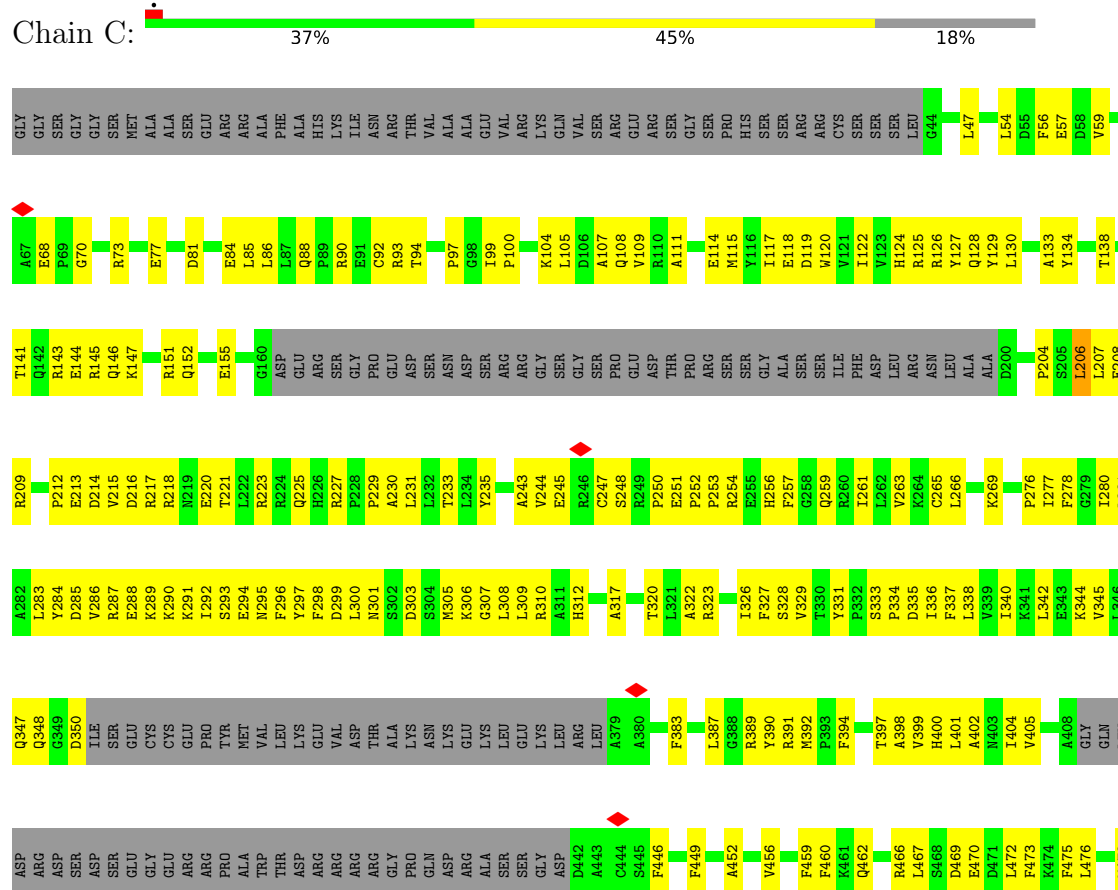


L1558	R1490	V1420	C1291	A1153	PRO	V987	K906	E946	P769	S886	F619
I1561	Q1491	L1421	L1292	E1154	ALA	E988	L907	P947	E770	T889	K620
L1562	M1492	Y1422	A1293	A1155	SER	H992	L908	P947	P771	T889	L621
L1563	F1493	S1423	A1294	T1156	PRO	H992	H909	LEU	L772	P690	H622
D1564	E1494	L1424	VAL	V1157	SER	H994	E910	LEU	V773	D691	L623
T1565	T1495	G1425	THR	K1158	PRO	N994	E911	PRO	A774	V692	P624
V1566	G1496	S1426	HIS	A1159	SER	F1000	L912	ASP	F775	A693	V627
K1567	H1497	A1427	TRP	A1160	VAL	L1001	A913	GLY	S776	L694	T628
M1568	L1498	Q1428	K1300	V1161	SER	L1001	L914	ALA	V779	P695	E629
K1569	F1499	Q1428	K1301	E1162	THR	D1003	Q916	PRO	L780	G696	N630
Q1572	R1500	L1431	F1303	E1163	THR	L1004	Q916	VAL	L783	M697	H631
V1570	V1502	F1432	GLU	L1164	SER	L1005	V917	THR	V784	R698	H632
K1503	K1503	Q1433	ILE	L1165	SER	S1006	V918	VAL	V784	W699	L633
M1504	M1504	H1435	SER	L1166	GLN	S1006	R924	GLN	R785	L634	L633
Q1505	Q1505	G1436	GLN	L1167	SER	V1008	L928	ALA	L786	V701	F635
V1506	ASP	L1437	ASP	L1168	THR	D1009	L928	ALA	V787	G702	T636
T1507	L1370	LYS	LYS	S1170	PHE	R1010	W932	THR	H703	H703	F637
M1508	THR	THR	THR	I1171	SER	G1011	W932	LEU	G704	K705	Y638
M1509	PHE	ALA	ALA	T1175	SER	F1012	F933	ALA	V706	V706	H639
L1510	LYS	SER	LYS	R1178	GLY	F1013	F934	ARG	F707	F707	P644
S1511	SER	ALA	SER	L1179	GLY	F1014	F935	GLY	S708	S708	R645
S1512	LEU	GLY	ASP	GLY	P1099	S1015	Q936	GLY	V709	V709	P646
L1513	ASP	LEU	MET	GLN	P1099	L1016	L937	ARG	W798	W798	G647
Y1514	LYS	LYS	LYS	E1184	K1092	V1017	M938	PRO	N799	N799	T648
G1515	ASP	GLY	ALA	PRO	V1033	H1018	V939	ALA	G801	G801	A649
F1520	ARG	L1245	ALA	GLY	H1020	S941	S941	LEU	R802	R802	L650
S1521	ARG	E1248	ALA	GLY	Y1021	M942	A943	TVR	D721	D721	E651
E1522	LEU	E1248	GLY	ARG	K1022	A943	A943	LEU	F805	F805	T652
E1523	GLU	R1251	GLN	ARG	Q1023	L946	L946	ALA	L724	L724	P653
H1524	GLU	T1282	ARG	SER	V1024	L947	L947	ARG	D725	D725	G655
L1525	ALA	T1282	ARG	ARG	A1025	R951	R951	SER	K726	K726	F656
L1592	ILE	L1254	LEU	LEU	T1026	S1030	S1030	SER	L730	L730	W657
R1526	GLY	V1257	ALA	ALA	H1107	F1108	F1108	SER	V731	V731	W658
R1528	THR	L1258	THR	MET	F1097	L1109	L1109	SER	H732	H732	I659
S1529	ILE	L1258	ILE	LEU	R1104	G1111	G1111	SER	W733	W733	P660
K1530	GLY	W1259	ALA	ASP	L1112	L1038	L1038	SER	L734	L734	Q663
T1531	ALA	K1262	ALA	THR	T1115	T1039	T1039	ASN	R742	R742	H664
L1532	ARG	T1264	GLN	THR	E1116	M1041	M1041	PRO	L743	L743	G665
L1533	GLU	N1263	ASP	GLY	E1122	F1044	F1044	LEU	K744	K744	R666
A1604	MET	P1265	VAL	GLY	E1122	F1044	F1044	LEU	D745	D745	L667
D1539	VAL	E1267	VAL	GLU	P1123	T1045	T1045	ALA	T746	T746	R668
M1540	ARG	L1268	ARG	GLY	F1129	L1046	L1046	ALA	V747	V747	P671
G1541	ARG	L1269	ARG	ASP	L1131	I1047	I1047	PRO	L748	L748	P672
L1542	SER	Q1270	SER	ILE	L1132	L1048	L1048	GLY	Q831	Q831	C673
R1543	ARG	R1271	GLU	THR	H1131	H1051	H1051	SER	S749	S749	L674
F1547	ARG	W1272	GLU	THR	A1138	H1052	H1052	VAL	N752	N752	S677
A1548	SER	A1273	SER	ILE	L1142	H1053	H1053	D896	Q755	Q755	V678
E1549	PRO	T1274	PRO	ASN	L1143	L1057	L1057	D897	E756	E756	D679
Q1550	PHE	L1281	PRO	PRO	L1144	N1058	N1058	V898	L757	L757	Q680
V1551	GLY	L1281	GLY	SER	L1145	L1059	L1059	V899	S760	S760	P681
Q1552	ASN	L1284	ASN	VAL	H1146	L1065	L1065	S900	L761	L761	P682
D1553	PRO	L1285	GLU	ALA	D1147	S1064	S1064	R901	R841	R841	P683
L1554	GLU	L1285	PRO	MET	S1065	PRO	PRO	R902	L764	L764	Y685
L1555	ASN	L1288	VAL	ALA	Y1152			L903			
F1556	VAL	L1288	ARG	ILE							
N1557	ARG										

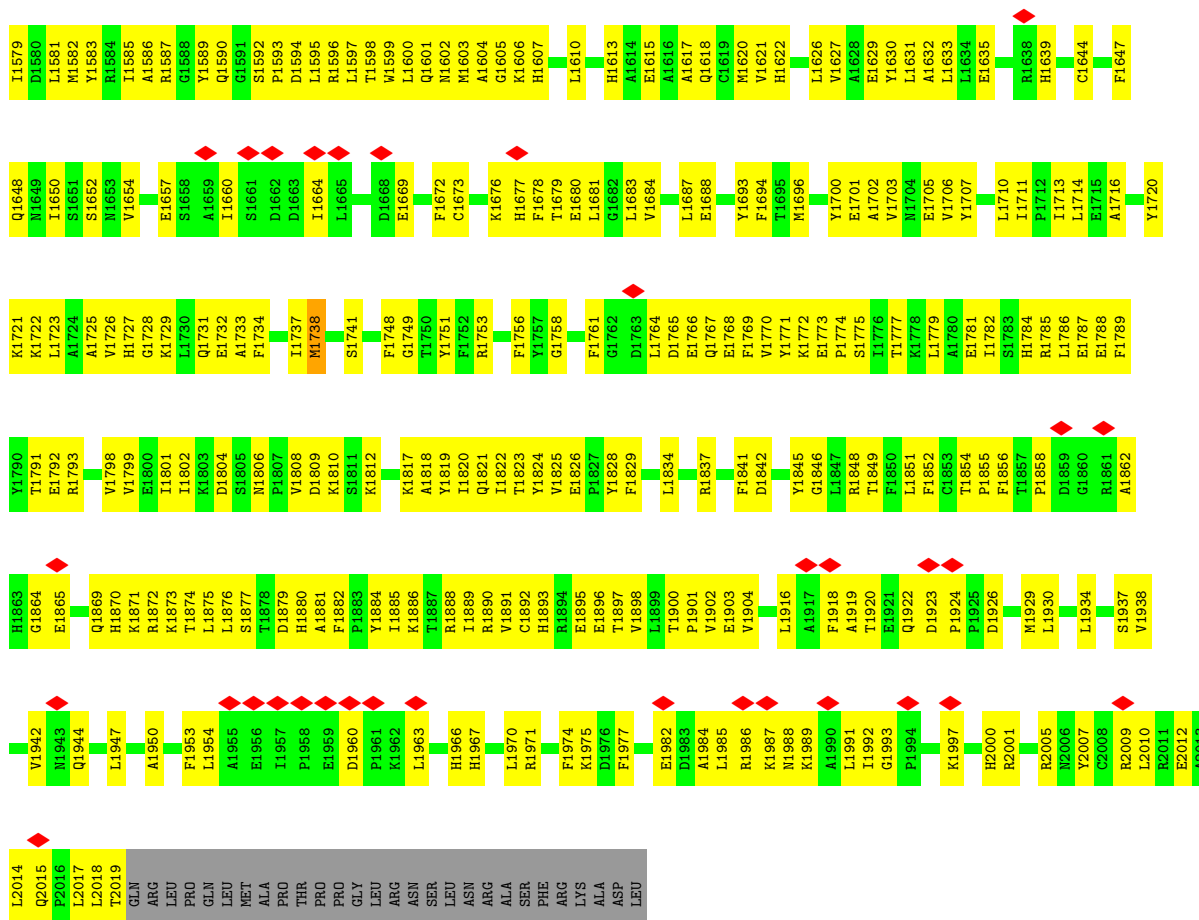


• Molecule 1: Dedicator of cytokinesis protein 6

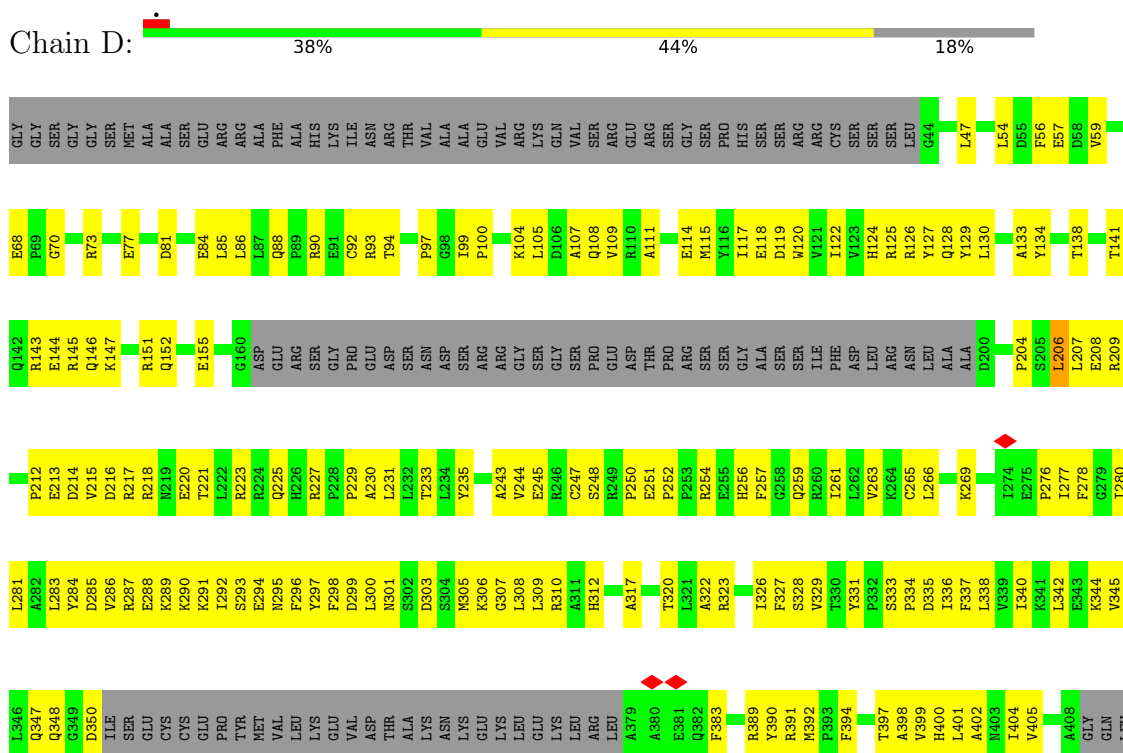
Chain C:



T1430	T1439	M1374	THR	T1175	D1090	F1012	F933	ALA	I793	S708	L634	F560	R480
Q1440	R1441	M1376	ALA	L1176	P1091	V1013	F934	ARG	I796	V709	F635	S561	R481
K1446	F1447	H1379	ARG	P1177	V1092	F1014	F935	GLY	Q796	L710	F636	V567	P482
A1448	P1448	L1379	GLY	R1178	T1094	S1015	Q936	GLY	Q797	L711	F637	S568	S483
L1450	F1449	L1379	ASP	L1179	T1094	L1016	L937	GLY	Q798	V717	Y638	N569	S484
G1451	M1383	L1386	GLY	E1184	F1097	A1018	V939	PRO	Q799	D721	H639	L570	L486
E1454	T1387	T1386	C1243	GLY	E1098	A1019	K940	ALA	L800	L724	P646	V574	R487
D1455	A1388	A1388	A1244	PRO	L1099	H1020	S941	ALA	G801	L725	L650	Q575	R488
E1456	L1389	L1389	E1248	GLN	R1104	K1023	N942	TYR	R802	K726	E651	Y576	L489
E1457	V1391	L1253	E1252	ARG	Q1106	Q1024	A943	LEU	F805	L730	T652	M577	A494
L1458	L1254	L1254	L1254	SER	H1107	V1024	L946	ALA	M808	V731	P653	Q579	Q495
C1459	L1254	L1254	L1254	ARG	F1108	A1026	L947	ARG	V811	H732	G655	E580	L496
G1463	V1267	V1267	V1267	LEU	A1110	T1026	R951	SER	V811	L733	T657	P582	R497
L1464	L1268	L1268	L1268	ALA	A1111	L1038	R951	LEU	L814	L734	W658	S501	I500
L1466	L1268	L1268	L1268	SER	L1112	L1040	T954	ILE	R817	R742	P660	Q583	P502
L1467	L1268	L1268	L1268	LEU	L1112	L1040	P955	SER	S818	L743	P660	T657	F509
R1468	L1268	L1268	L1268	ASP	L1112	L1040	R956	SER	L819	K744	H664	Q583	C510
S1472	K1262	K1262	K1262	ASP	E1116	F1043	R957	ASN	D824	T746	G665	E584	L511
R1473	L1263	L1263	L1263	ASP	E1116	F1043	R958	PRO	R826	V747	G665	S592	S512
T1475	L1263	L1263	L1263	THR	E1122	T1045	F960	ASP	R826	L748	R666	S593	P513
S1476	E1265	E1265	E1265	GLU	P1123	R1046	F964	LEU	R826	S749	L667	S594	E514
I1477	F1266	F1266	F1266	GLY	F1129	L1047	L965	ALA	G827	N752	R668	C595	L515
R1478	L1267	L1267	L1267	GLU	H1132	L1048	L965	VAL	H828	Q755	P671	S596	Y521
T1479	L1267	L1267	L1267	GLY	H1132	L1048	L965	ALA	C829	E756	F672	S597	P528
H1480	L1267	L1267	L1267	GLY	A1138	H1053	L971	GLY	P830	L757	C673	E601	T529
A1481	L1267	L1267	L1267	ASN	L1142	L1057	G975	SER	Q831	S760	L674	F603	K530
Q1482	L1267	L1267	L1267	THR	L1143	N1058	E978	VAL	L832	L761	S677	T604	I532
S1483	L1267	L1267	L1267	PRO	H1146	S1065	R982	D896	Y835	L764	Q680	P605	L533
L1484	L1267	L1267	L1267	VAL	D1147	PRO	R983	D897	H837	R765	Q681	V606	P536
L1485	L1267	L1267	L1267	ALA	T1148	ALA	H984	E898	Y838	L766	Y685	V607	A537
Y1486	L1267	L1267	L1267	ALA	D1149	SER	K985	R901	R841	L766	Y685	H609	R538
L1487	L1267	L1267	L1267	MET	Y1152	PRO	D986	L902	L842	P769	S686	N610	E539
L1488	L1267	L1267	L1267	ILE	A1153	SER	V987	L903	E846	E770	T689	F615	V540
M1489	L1267	L1267	L1267	ILE	E1154	PRO	E988	K906	P847	P771	P690	Y616	Y541
R1490	L1267	L1267	L1267	GLY	A1155	SER	E988	L907	SER	L772	D691	E617	A542
Q1491	L1267	L1267	L1267	GLY	T1156	VAL	H992	L908	LEU	V773	V692	E618	P543
M1492	L1267	L1267	L1267	PRO	V1157	SER	L993	H909	PRO	A774	A693	F619	H544
F1493	L1267	L1267	L1267	LEU	K1158	THR	N994	E910	ASP	S776	L694	K620	T545
L1494	L1267	L1267	L1267	ALA	A1159	THR	F1000	E911	GLY	V779	M697	Y547	S546
I1495	L1267	L1267	L1267	ALA	R1160	THR	L1001	L912	ALA	L779	R698	L621	K620
G1496	L1267	L1267	L1267	GLY	V1161	SER	L1001	A913	PRO	L790	R698	H622	R548
H1497	L1267	L1267	L1267	SER	A1162	GLN	S1002	L914	PRO	L790	R698	L623	N549
M1498	L1267	L1267	L1267	ARG	E1163	SER	D1003	Q915	PRO	L790	R698	P624	L550
F1499	L1267	L1267	L1267	ALA	L1164	THR	L1004	V916	VAL	L783	V700	L551	L551
R1501	L1267	L1267	L1267	SER	Y1165	THR	L1005	V917	THR	L783	D701	V627	Y552
V1502	L1267	L1267	L1267	ILE	L1166	PHE	S1006	V918	VAL	R785	G702	T628	V553
K1503	L1267	L1267	L1267	GLN	L1168	SER	L1007	R924	GLN	L786	H703	E629	V554
M1504	L1267	L1267	L1267	GLY	L1169	SER	V1008	R924	ALA	L786	H703	N630	P555
Q1505	L1267	L1267	L1267	PRO	S1170	THR	D1009	R924	ALA	L786	H703	H631	P555
L1506	L1267	L1267	L1267	PRO	T1171	THR	R1010	R924	ALA	L786	H703	L558	L558
							G1011	R924	ALA	L786	H703	H632	H632
									LEU	R789	F706	L633	N559



• Molecule 1: Dedicator of cytokinesis protein 6



H1376	L1379	M1383	T1386	E1387	A1388	S1389	L1390	V1391	V1392	L1393	D1394	T1395	L1396	E1397	N1398	I1399	V1400	Q1401	T1402	V1403	M1404	L1405	S1406	E1407	A1408	R1409	E1410	S1411	V1412	L1413	G1414	A1415	V1416	L1417	V1420	L1421	Y1422	S1423	G1425	A1427	Q1428	L1431	F1432	L1433	Q1434	H1435	G1436	L1437	A1438	T1439	Q1440	R1441			
ALA	GLY	C1243	A1244	L1245	E1248	R1251	T1252	L1253	L1254	V1257	L1258	W1259	K1262	N1263	T1264	E1265	F1266	A1267	L1268	L1269	Q1270	R1271	W1272	A1273	T1274	L1281	L1284	L1285	L1288	C1291	L1292	A1293	A1294	K1298	G1299	K1300	A1301	A1302	F1303	GLU	ARG	ILE	ASN	ILE	GLN	THR	ASP	ASP	VAL	ASN	THR	L1370	K1371	M1374	E1375
LEU	ASP	MET	LYS	ALA	ARG	LEU	GLY	GLN	ARG	GLY	ILE	ALA	ASP	ASP	THR	GLU	GLY	GLY	GLY	GLY	ASP	ILE	ALA	GLY	THR	ASN	PRO	PHE	ASN	PRO	GLN	ASN	VAL	THR	TRP	LYS	GLN	THR	THR	GLY	ASP	ARG	VAL	VAL	ASP	VAL	THR	THR	PHE	LYS	LYS	THR	LYS	THR	LYS
R1178	L1179	E1184	GLY	PRO	GLY	GLN	ARG	SER	ILE	SER	MET	LEU	ASP	ASP	THR	GLU	GLY	GLY	GLY	GLY	ASP	ILE	ALA	GLY	THR	ASN	PRO	VAL	ALA	MET	ASN	ILE	ALA	ALA	GLY	GLY	PRO	ALA	ARG	ALA	SER	ILE	ILE	GLN	GLY	PRO	PRO	THR	THR	ALA	SER	SER	ARG		
V1017	R1018	A1019	H1020	Y1021	K1022	Q1023	V1024	A1025	T1026	L1038	T1039	L1040	R1041	M1042	E1043	F1044	T1045	R1046	I1047	L1048	H1051	E1052	H1053	L1057	M1058	S1065	PRO	PRO	ALA	SER	PRO	SER	PRO	PRO	SER	VAL	SER	GLY	SER	THR	THR	THR	GLN	SER	THR	THR	THR	THR	THR	THR	THR	THR			
L937	M938	Y939	K940	S941	M942	A943	L946	L947	R951	T954	R955	R956	K957	L958	R959	F960	F964	L965	L971	S974	Y975	G976	L977	E978	R982	Y983	H984	K985	D986	V987	E988	H992	L993	N994	L1001	S1002	L1003	L1004	L1005	S1006	L1007	V1008	D1009	R1010	G1011	F1012	V1013	F1014	S1015	L1016					
GLY	ARG	PRO	ALA	SER	LEU	TYR	LEU	ALA	SER	ARG	SER	LYS	SER	ILE	SER	ASN	PRO	ASP	LEU	ALA	VAL	ALA	PRO	SER	D896	E897	R898	H899	Y899	R900	E901	I902	L903	K906	L907	L908	H909	E910	E911	L912	A913	L914	Q915	W916	V917	V918	R924	L928	W932	F933	F934	F935	Q936		
L797	V798	Y799	L800	G801	R802	L794	D725	T726	M808	V811	L814	R817	S818	R819	D824	A825	R826	G827	L828	C829	P830	Q831	L832	Y835	H836	H837	Y838	A839	R840	R841	L842	E846	SER	LEU	PRO	ASP	GLY	VAL	THR	GLN	ALA	ALA	THR	LEU	ALA	GLY	SER	SER							
L711	V567	F637	Y638	H639	P646	E651	T652	P653	G654	G655	F656	T657	W658	I659	P660	Q663	H664	G665	R666	L667	R668	P671	F672	C673	L674	S677	V678	D679	Q680	P681	Y685	S686	T689	P690	D691	V692	A693	L694	W697	R698	W699	V700	D701	G702	H703	K704	G705	V706	F707	S708	V709	E710			
P482	S483	R568	N569	L486	R487	R488	L489	A494	Q495	L496	K497	I500	S501	P502	F509	C510	G591	K592	S593	E594	L515	Y521	P528	K530	E531	L532	L533	P536	A537	R538	E539	Y540	Y541	A542	P543	H544	T545	S546	Y547	R548	N549	L550	L551	Y552	V553	Y554	P555	L558	N559	F560	S561				
ASP	ARG	ASP	SER	ASP	SER	GLU	GLY	ARG	ARG	PRO	ALA	THR	THR	ASP	ARG	ARG	ARG	GLY	PRO	GLN	ASP	ARG	ALA	SER	SER	GLY	ASP	S445	F446	F449	A452	V456	F459	F460	K461	Q462	R466	L467	S468	D469	L472	F473	K474	F475	L476	M479	R480	R481							







4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of particles used	163250	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	49.5	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	64000	Depositor
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.080	Depositor
Minimum map value	-0.038	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.003	Depositor
Recommended contour level	0.01	Depositor
Map size (Å)	452.2, 452.2, 452.2	wwPDB
Map dimensions	340, 340, 340	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.33, 1.33, 1.33	Depositor

5 Model quality

5.1 Standard geometry

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.40	0/13741	0.55	1/18646 (0.0%)
1	B	0.40	0/13741	0.55	1/18646 (0.0%)
1	C	0.40	0/13741	0.55	1/18646 (0.0%)
1	D	0.40	0/13741	0.55	1/18646 (0.0%)
All	All	0.40	0/54964	0.55	4/74584 (0.0%)

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
1	B	0	1
1	C	0	1
1	D	0	1
All	All	0	4

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1738	MET	CB-CG-SD	-6.24	93.97	112.70
1	A	1738	MET	CB-CG-SD	-6.24	93.98	112.70
1	D	1738	MET	CB-CG-SD	-6.23	94.00	112.70
1	C	1738	MET	CB-CG-SD	-6.22	94.02	112.70

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	206	LEU	Peptide

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Mol	Chain	Res	Type	Group
1	B	206	LEU	Peptide
1	C	206	LEU	Peptide
1	D	206	LEU	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	13425	0	13390	885	0
1	B	13425	0	13390	879	0
1	C	13425	0	13390	891	0
1	D	13425	0	13390	893	0
All	All	53700	0	53560	3506	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 33.

All (3506) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:633:LEU:HB2	1:A:659:ILE:HB	1.46	0.98
1:D:633:LEU:HB2	1:D:659:ILE:HB	1.46	0.98
1:B:633:LEU:HB2	1:B:659:ILE:HB	1.46	0.97
1:C:633:LEU:HB2	1:C:659:ILE:HB	1.46	0.96
1:C:476:LEU:HA	1:C:479:MET:HG2	1.47	0.95
1:D:466:ARG:HH22	1:D:605:PRO:HB2	1.32	0.94
1:B:476:LEU:HA	1:B:479:MET:HG2	1.47	0.94
1:C:466:ARG:HH22	1:C:605:PRO:HB2	1.32	0.94
1:D:1777:THR:HG23	1:D:1781:GLU:HB2	1.50	0.93
1:A:466:ARG:HH22	1:A:605:PRO:HB2	1.32	0.93
1:D:476:LEU:HA	1:D:479:MET:HG2	1.47	0.93
1:A:476:LEU:HA	1:A:479:MET:HG2	1.47	0.93
1:B:466:ARG:HH22	1:B:605:PRO:HB2	1.32	0.92
1:B:1777:THR:HG23	1:B:1781:GLU:HB2	1.50	0.92
1:A:1777:THR:HG23	1:A:1781:GLU:HB2	1.50	0.92
1:A:231:LEU:HB2	1:A:1262:LYS:HZ2	1.35	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1777:THR:HG23	1:C:1781:GLU:HB2	1.50	0.91
1:D:231:LEU:HB2	1:D:1262:LYS:HZ2	1.36	0.89
1:C:231:LEU:HB2	1:C:1262:LYS:HZ2	1.37	0.88
1:D:743:LEU:HG	1:D:748:LEU:HD11	1.56	0.88
1:B:231:LEU:HB2	1:B:1262:LYS:HZ2	1.38	0.88
1:B:743:LEU:HG	1:B:748:LEU:HD11	1.55	0.88
1:C:743:LEU:HG	1:C:748:LEU:HD11	1.55	0.86
1:A:743:LEU:HG	1:A:748:LEU:HD11	1.55	0.86
1:C:1091:PRO:HA	1:C:1094:THR:HG22	1.58	0.86
1:C:837:HIS:O	1:C:940:LYS:NZ	2.09	0.86
1:A:1787:GLU:HB2	1:A:1801:ILE:HD11	1.58	0.86
1:A:1091:PRO:HA	1:A:1094:THR:HG22	1.58	0.86
1:C:1720:TYR:CD2	1:D:1738:MET:HE2	2.11	0.85
1:D:837:HIS:O	1:D:940:LYS:NZ	2.09	0.85
1:A:837:HIS:O	1:A:940:LYS:NZ	2.09	0.85
1:D:1142:LEU:O	1:D:1146:HIS:ND1	2.10	0.85
1:D:1787:GLU:HB2	1:D:1801:ILE:HD11	1.58	0.85
1:B:1142:LEU:O	1:B:1146:HIS:ND1	2.10	0.85
1:B:1091:PRO:HA	1:B:1094:THR:HG22	1.58	0.84
1:A:1142:LEU:O	1:A:1146:HIS:ND1	2.10	0.84
1:C:1142:LEU:O	1:C:1146:HIS:ND1	2.10	0.84
1:C:1875:LEU:HB3	1:C:1895:GLU:HB3	1.59	0.84
1:C:1787:GLU:HB2	1:C:1801:ILE:HD11	1.58	0.84
1:B:1875:LEU:HB3	1:B:1895:GLU:HB3	1.59	0.84
1:D:1091:PRO:HA	1:D:1094:THR:HG22	1.58	0.84
1:B:837:HIS:O	1:B:940:LYS:NZ	2.09	0.84
1:C:1720:TYR:HA	1:C:1723:LEU:HB2	1.60	0.83
1:C:1874:THR:HG23	1:C:1896:GLU:HG2	1.60	0.83
1:B:1787:GLU:HB2	1:B:1801:ILE:HD11	1.58	0.83
1:A:1720:TYR:HA	1:A:1723:LEU:HB2	1.60	0.83
1:C:1026:THR:OG1	1:B:755:GLN:OE1	1.97	0.83
1:C:1604:ALA:HB2	1:C:1620:MET:HE3	1.61	0.83
1:B:539:GLU:HB2	1:B:770:GLU:HG2	1.60	0.83
1:D:539:GLU:HB2	1:D:770:GLU:HG2	1.60	0.83
1:D:742:ARG:NH1	1:D:743:LEU:O	2.12	0.83
1:D:1436:GLY:O	1:D:1440:GLN:NE2	2.12	0.83
1:D:1875:LEU:HB3	1:D:1895:GLU:HB3	1.59	0.83
1:B:1604:ALA:HB2	1:B:1620:MET:HE3	1.61	0.83
1:D:1874:THR:HG23	1:D:1896:GLU:HG2	1.60	0.82
1:B:742:ARG:NH1	1:B:743:LEU:O	2.12	0.82
1:B:951:ARG:NH1	1:B:959:ARG:O	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1604:ALA:HB2	1:A:1620:MET:HE3	1.61	0.82
1:C:1436:GLY:O	1:C:1440:GLN:NE2	2.12	0.82
1:B:1436:GLY:O	1:B:1440:GLN:NE2	2.12	0.82
1:A:539:GLU:HB2	1:A:770:GLU:HG2	1.60	0.82
1:A:1436:GLY:O	1:A:1440:GLN:NE2	2.12	0.82
1:C:951:ARG:NH1	1:C:959:ARG:O	2.12	0.82
1:A:951:ARG:NH1	1:A:959:ARG:O	2.12	0.82
1:D:1604:ALA:HB2	1:D:1620:MET:HE3	1.61	0.82
1:D:1879:ASP:HB2	1:D:1889:ILE:HD11	1.60	0.82
1:C:742:ARG:NH1	1:C:743:LEU:O	2.12	0.82
1:B:1874:THR:HG23	1:B:1896:GLU:HG2	1.60	0.82
1:A:742:ARG:NH1	1:A:743:LEU:O	2.12	0.82
1:A:1874:THR:HG23	1:A:1896:GLU:HG2	1.60	0.82
1:D:1720:TYR:HA	1:D:1723:LEU:HB2	1.60	0.82
1:A:1875:LEU:HB3	1:A:1895:GLU:HB3	1.59	0.81
1:A:1879:ASP:HB2	1:A:1889:ILE:HD11	1.60	0.81
1:B:1720:TYR:HA	1:B:1723:LEU:HB2	1.60	0.81
1:D:951:ARG:NH1	1:D:959:ARG:O	2.12	0.81
1:C:1426:SER:OG	1:C:1428:GLN:NE2	2.14	0.81
1:D:1426:SER:OG	1:D:1428:GLN:NE2	2.14	0.81
1:B:1426:SER:OG	1:B:1428:GLN:NE2	2.14	0.81
1:C:539:GLU:HB2	1:C:770:GLU:HG2	1.60	0.81
1:D:1476:THR:O	1:D:1480:HIS:ND1	2.14	0.81
1:B:1476:THR:O	1:B:1480:HIS:ND1	2.14	0.80
1:A:1426:SER:OG	1:A:1428:GLN:NE2	2.14	0.80
1:C:1879:ASP:HB2	1:C:1889:ILE:HD11	1.60	0.80
1:B:1879:ASP:HB2	1:B:1889:ILE:HD11	1.60	0.80
1:D:1808:VAL:HG13	1:D:1812:LYS:HE2	1.64	0.80
1:B:1808:VAL:HG13	1:B:1812:LYS:HE2	1.64	0.79
1:A:1476:THR:O	1:A:1480:HIS:ND1	2.14	0.79
1:C:1808:VAL:HG13	1:C:1812:LYS:HE2	1.64	0.79
1:A:1808:VAL:HG13	1:A:1812:LYS:HE2	1.64	0.79
1:C:1476:THR:O	1:C:1480:HIS:ND1	2.14	0.79
1:D:569:ASN:OD1	1:D:609:HIS:N	2.16	0.78
1:A:223:ARG:NE	1:A:1394:ASP:OD1	2.17	0.78
1:B:569:ASN:OD1	1:B:609:HIS:N	2.16	0.78
1:C:569:ASN:OD1	1:C:609:HIS:N	2.16	0.78
1:B:1021:TYR:HE2	1:B:1041:ARG:HG3	1.49	0.78
1:B:1111:GLY:O	1:B:1115:THR:OG1	2.01	0.78
1:B:266:LEU:HB2	1:B:497:LYS:HB2	1.66	0.77
1:C:1837:ARG:NH1	1:C:1845:TYR:O	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1021:TYR:HE2	1:D:1041:ARG:HG3	1.49	0.77
1:A:1837:ARG:NH1	1:A:1845:TYR:O	2.18	0.77
1:D:1265:GLU:OE2	1:D:1268:LEU:N	2.18	0.77
1:C:1021:TYR:HE2	1:C:1041:ARG:HG3	1.49	0.77
1:D:266:LEU:HB2	1:D:497:LYS:HB2	1.66	0.77
1:A:266:LEU:HB2	1:A:497:LYS:HB2	1.66	0.76
1:A:824:ASP:HB3	1:A:830:PRO:HG3	1.67	0.76
1:A:1265:GLU:OE2	1:A:1268:LEU:N	2.18	0.76
1:C:1265:GLU:OE2	1:C:1268:LEU:N	2.18	0.76
1:D:223:ARG:NE	1:D:1394:ASP:OD1	2.17	0.76
1:C:223:ARG:NE	1:C:1394:ASP:OD1	2.17	0.76
1:B:1521:SER:OG	1:B:1524:HIS:ND1	2.19	0.76
1:D:1111:GLY:O	1:D:1115:THR:OG1	2.01	0.76
1:B:1265:GLU:OE2	1:B:1268:LEU:N	2.18	0.76
1:D:678:VAL:HG22	1:D:700:VAL:HG23	1.68	0.76
1:A:1021:TYR:HE2	1:A:1041:ARG:HG3	1.49	0.76
1:D:1837:ARG:NH1	1:D:1845:TYR:O	2.18	0.76
1:C:824:ASP:HB3	1:C:830:PRO:HG3	1.67	0.76
1:D:1521:SER:OG	1:D:1524:HIS:ND1	2.19	0.76
1:D:824:ASP:HB3	1:D:830:PRO:HG3	1.67	0.75
1:B:678:VAL:HG22	1:B:700:VAL:HG23	1.68	0.75
1:A:1111:GLY:O	1:A:1115:THR:OG1	2.01	0.75
1:A:1423:SER:O	1:A:1428:GLN:NE2	2.19	0.75
1:D:1423:SER:O	1:D:1428:GLN:NE2	2.19	0.75
1:A:1109:LEU:HA	1:A:1112:LEU:HD12	1.69	0.75
1:C:266:LEU:HB2	1:C:497:LYS:HB2	1.66	0.75
1:C:1423:SER:O	1:C:1428:GLN:NE2	2.19	0.75
1:B:223:ARG:NE	1:B:1394:ASP:OD1	2.17	0.75
1:C:1521:SER:OG	1:C:1524:HIS:ND1	2.19	0.75
1:A:1684:VAL:HA	1:A:1687:LEU:HD12	1.68	0.75
1:C:1684:VAL:HA	1:C:1687:LEU:HD12	1.67	0.75
1:D:1109:LEU:HA	1:D:1112:LEU:HD12	1.69	0.75
1:B:909:HIS:ND1	1:B:941:SER:OG	2.19	0.75
1:B:1837:ARG:NH1	1:B:1842:ASP:O	2.20	0.75
1:D:1837:ARG:NH1	1:D:1842:ASP:O	2.20	0.75
1:A:569:ASN:OD1	1:A:609:HIS:N	2.16	0.75
1:C:1109:LEU:HA	1:C:1112:LEU:HD12	1.69	0.75
1:D:1856:PHE:HZ	1:D:1898:VAL:HG13	1.52	0.75
1:B:576:TYR:HB2	1:B:633:LEU:HD23	1.69	0.75
1:D:576:TYR:HB2	1:D:633:LEU:HD23	1.69	0.74
1:B:1837:ARG:NH1	1:B:1845:TYR:O	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:144:GLU:O	1:B:147:LYS:NZ	2.21	0.74
1:B:1109:LEU:HA	1:B:1112:LEU:HD12	1.69	0.74
1:B:1856:PHE:HZ	1:B:1898:VAL:HG13	1.52	0.74
1:C:144:GLU:O	1:C:147:LYS:NZ	2.21	0.74
1:B:1298:LYS:HB3	1:B:1302:ALA:HB2	1.70	0.74
1:C:1837:ARG:NH1	1:C:1842:ASP:O	2.20	0.74
1:B:824:ASP:HB3	1:B:830:PRO:HG3	1.67	0.74
1:B:1684:VAL:HA	1:B:1687:LEU:HD12	1.68	0.74
1:A:1521:SER:OG	1:A:1524:HIS:ND1	2.19	0.74
1:C:701:ASP:HB3	1:C:704:LYS:HE2	1.70	0.74
1:D:1298:LYS:HB3	1:D:1302:ALA:HB2	1.70	0.74
1:D:1684:VAL:HA	1:D:1687:LEU:HD12	1.68	0.74
1:B:1423:SER:O	1:B:1428:GLN:NE2	2.19	0.74
1:C:576:TYR:HB2	1:C:633:LEU:HD23	1.69	0.74
1:C:1583:TYR:HB2	1:C:1603:MET:HE1	1.70	0.74
1:A:1856:PHE:HZ	1:A:1898:VAL:HG13	1.52	0.73
1:C:1856:PHE:HZ	1:C:1898:VAL:HG13	1.52	0.73
1:D:701:ASP:HB3	1:D:704:LYS:HE2	1.70	0.73
1:A:144:GLU:O	1:A:147:LYS:NZ	2.21	0.73
1:C:1553:ASP:OD1	1:C:1554:LEU:N	2.21	0.73
1:D:1553:ASP:OD1	1:D:1554:LEU:N	2.21	0.73
1:B:701:ASP:HB3	1:B:704:LYS:HE2	1.70	0.73
1:A:230:ALA:O	1:A:233:THR:OG1	2.06	0.73
1:A:1521:SER:HG	1:A:1524:HIS:HD1	1.35	0.73
1:C:678:VAL:HG22	1:C:700:VAL:HG23	1.68	0.73
1:A:678:VAL:HG22	1:A:700:VAL:HG23	1.68	0.73
1:A:1298:LYS:HB3	1:A:1302:ALA:HB2	1.70	0.73
1:D:1012:PHE:O	1:D:1015:SER:OG	2.07	0.73
1:A:1553:ASP:OD1	1:A:1554:LEU:N	2.21	0.73
1:C:230:ALA:O	1:C:233:THR:OG1	2.06	0.73
1:A:701:ASP:HB3	1:A:704:LYS:HE2	1.70	0.73
1:A:1837:ARG:NH1	1:A:1842:ASP:O	2.20	0.73
1:C:1856:PHE:HE1	1:C:1872:ARG:HB2	1.53	0.73
1:D:144:GLU:O	1:D:147:LYS:NZ	2.20	0.73
1:D:230:ALA:O	1:D:233:THR:OG1	2.06	0.73
1:D:1521:SER:HG	1:D:1524:HIS:HD1	1.36	0.73
1:B:230:ALA:O	1:B:233:THR:OG1	2.06	0.73
1:A:1583:TYR:HB2	1:A:1603:MET:HE1	1.70	0.73
1:B:214:ASP:O	1:B:217:ARG:NH2	2.22	0.73
1:C:214:ASP:O	1:C:217:ARG:NH2	2.22	0.73
1:B:1553:ASP:OD1	1:B:1554:LEU:N	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1856:PHE:HE1	1:B:1872:ARG:HB2	1.53	0.73
1:A:1856:PHE:HE1	1:A:1872:ARG:HB2	1.53	0.73
1:D:1152:TYR:HA	1:D:1157:VAL:HG11	1.71	0.73
1:C:1111:GLY:O	1:C:1115:THR:OG1	2.01	0.72
1:A:576:TYR:HB2	1:A:633:LEU:HD23	1.69	0.72
1:D:90:ARG:NH1	1:D:118:GLU:O	2.23	0.72
1:D:214:ASP:O	1:D:217:ARG:NH2	2.22	0.72
1:B:1583:TYR:HB2	1:B:1603:MET:HE1	1.70	0.72
1:C:1298:LYS:HB3	1:C:1302:ALA:HB2	1.70	0.72
1:C:1521:SER:HG	1:C:1524:HIS:HD1	1.36	0.72
1:C:1720:TYR:CG	1:D:1738:MET:HE2	2.23	0.72
1:B:638:TYR:HB3	1:B:651:GLU:HB2	1.71	0.72
1:B:824:ASP:OD1	1:B:828:HIS:N	2.22	0.72
1:B:954:THR:HB	1:B:959:ARG:HG3	1.72	0.72
1:D:1785:ARG:NH1	1:D:1785:ARG:O	2.23	0.72
1:B:1012:PHE:O	1:B:1015:SER:OG	2.07	0.72
1:B:1785:ARG:NH1	1:B:1785:ARG:O	2.23	0.72
1:A:814:LEU:HD12	1:A:817:ARG:HH21	1.54	0.72
1:A:1785:ARG:NH1	1:A:1785:ARG:O	2.23	0.72
1:A:220:GLU:OE1	1:A:223:ARG:NH2	2.22	0.72
1:A:1152:TYR:HA	1:A:1157:VAL:HG11	1.71	0.72
1:D:954:THR:HB	1:D:959:ARG:HG3	1.72	0.72
1:B:109:VAL:HG22	1:B:717:VAL:HG11	1.71	0.72
1:B:1152:TYR:HA	1:B:1157:VAL:HG11	1.71	0.72
1:A:638:TYR:HB3	1:A:651:GLU:HB2	1.71	0.72
1:A:909:HIS:ND1	1:A:941:SER:OG	2.19	0.72
1:C:814:LEU:HD12	1:C:817:ARG:HH21	1.54	0.72
1:D:1856:PHE:HE1	1:D:1872:ARG:HB2	1.53	0.72
1:B:1521:SER:HG	1:B:1524:HIS:HD1	1.36	0.72
1:A:1012:PHE:O	1:A:1015:SER:OG	2.07	0.72
1:C:90:ARG:NH1	1:C:118:GLU:O	2.23	0.72
1:C:824:ASP:OD1	1:C:828:HIS:N	2.22	0.72
1:C:1785:ARG:NH1	1:C:1785:ARG:O	2.23	0.72
1:D:220:GLU:OE1	1:D:223:ARG:NH2	2.22	0.72
1:B:220:GLU:OE1	1:B:223:ARG:NH2	2.22	0.72
1:D:1583:TYR:HB2	1:D:1603:MET:HE1	1.70	0.71
1:A:109:VAL:HG22	1:A:717:VAL:HG11	1.71	0.71
1:C:954:THR:HB	1:C:959:ARG:HG3	1.72	0.71
1:C:1152:TYR:HA	1:C:1157:VAL:HG11	1.71	0.71
1:D:109:VAL:HG22	1:D:717:VAL:HG11	1.71	0.71
1:A:214:ASP:O	1:A:217:ARG:NH2	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:220:GLU:OE1	1:C:223:ARG:NH2	2.22	0.71
1:C:1872:ARG:NH1	1:C:1896:GLU:OE2	2.23	0.71
1:B:90:ARG:NH1	1:B:118:GLU:O	2.23	0.71
1:A:81:ASP:O	1:A:126:ARG:NE	2.24	0.71
1:A:90:ARG:NH1	1:A:118:GLU:O	2.23	0.71
1:A:954:THR:HB	1:A:959:ARG:HG3	1.72	0.71
1:C:909:HIS:ND1	1:C:941:SER:OG	2.18	0.71
1:C:81:ASP:O	1:C:126:ARG:NE	2.24	0.71
1:A:1396:LEU:HA	1:A:1399:ILE:HD12	1.73	0.71
1:C:288:GLU:O	1:C:290:LYS:NZ	2.22	0.71
1:B:86:LEU:HB2	1:B:122:ILE:HB	1.72	0.71
1:B:814:LEU:HD12	1:B:817:ARG:HH21	1.54	0.71
1:B:1019:ALA:O	1:B:1023:GLN:NE2	2.24	0.71
1:C:638:TYR:HB3	1:C:651:GLU:HB2	1.71	0.71
1:D:814:LEU:HD12	1:D:817:ARG:HH21	1.54	0.71
1:D:1396:LEU:HA	1:D:1399:ILE:HD12	1.73	0.71
1:A:206:LEU:HD13	1:A:1487:LEU:HD21	1.73	0.70
1:A:288:GLU:O	1:A:290:LYS:NZ	2.22	0.70
1:C:1012:PHE:O	1:C:1015:SER:OG	2.07	0.70
1:D:638:TYR:HB3	1:D:651:GLU:HB2	1.70	0.70
1:A:1872:ARG:NH1	1:A:1896:GLU:OE2	2.23	0.70
1:C:109:VAL:HG22	1:C:717:VAL:HG11	1.71	0.70
1:C:1548:ALA:O	1:C:1552:GLN:NE2	2.20	0.70
1:D:86:LEU:HB2	1:D:122:ILE:HB	1.72	0.70
1:B:141:THR:HB	1:B:145:ARG:HH22	1.57	0.70
1:B:1872:ARG:NH1	1:B:1896:GLU:OE2	2.23	0.70
1:C:1019:ALA:O	1:C:1023:GLN:NE2	2.24	0.70
1:D:480:ARG:HG3	1:D:481:ARG:HG3	1.74	0.70
1:A:86:LEU:HB2	1:A:122:ILE:HB	1.72	0.70
1:C:206:LEU:HD13	1:C:1487:LEU:HD21	1.73	0.70
1:D:1019:ALA:O	1:D:1023:GLN:NE2	2.24	0.70
1:B:1396:LEU:HA	1:B:1399:ILE:HD12	1.73	0.70
1:A:1548:ALA:O	1:A:1552:GLN:NE2	2.20	0.70
1:C:141:THR:HB	1:C:145:ARG:HH22	1.57	0.70
1:B:480:ARG:HG3	1:B:481:ARG:HG3	1.74	0.70
1:B:1179:LEU:HD21	1:B:1254:LEU:HD21	1.74	0.70
1:B:1248:GLU:OE1	1:B:1248:GLU:N	2.21	0.70
1:A:1019:ALA:O	1:A:1023:GLN:NE2	2.24	0.70
1:C:1779:LEU:HD22	1:C:1824:TYR:H	1.57	0.70
1:D:1872:ARG:NH1	1:D:1896:GLU:OE2	2.23	0.70
1:B:1431:LEU:O	1:B:1435:HIS:ND1	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1431:LEU:O	1:C:1435:HIS:ND1	2.24	0.70
1:C:1738:MET:HE2	1:D:1720:TYR:CG	2.26	0.70
1:A:1179:LEU:HD21	1:A:1254:LEU:HD21	1.74	0.70
1:D:1179:LEU:HD21	1:D:1254:LEU:HD21	1.74	0.70
1:C:1383:ASN:O	1:C:1386:THR:OG1	2.09	0.69
1:A:480:ARG:HG3	1:A:481:ARG:HG3	1.74	0.69
1:A:1779:LEU:HD22	1:A:1824:TYR:H	1.57	0.69
1:C:86:LEU:HB2	1:C:122:ILE:HB	1.72	0.69
1:C:480:ARG:HG3	1:C:481:ARG:HG3	1.74	0.69
1:C:1179:LEU:HD21	1:C:1254:LEU:HD21	1.74	0.69
1:D:141:THR:HB	1:D:145:ARG:HH22	1.57	0.69
1:D:1431:LEU:O	1:D:1435:HIS:ND1	2.24	0.69
1:D:81:ASP:O	1:D:126:ARG:NE	2.24	0.69
1:A:141:THR:HB	1:A:145:ARG:HH22	1.56	0.69
1:A:1431:LEU:O	1:A:1435:HIS:ND1	2.24	0.69
1:C:1738:MET:HE2	1:D:1720:TYR:CD2	2.27	0.69
1:D:909:HIS:ND1	1:D:941:SER:OG	2.18	0.69
1:C:1396:LEU:HA	1:C:1399:ILE:HD12	1.73	0.69
1:D:288:GLU:O	1:D:290:LYS:NZ	2.22	0.69
1:B:1529:LEU:HA	1:B:1532:ILE:HD12	1.74	0.69
1:C:250:PRO:O	1:C:838:TYR:OH	2.10	0.69
1:C:1248:GLU:OE1	1:C:1248:GLU:N	2.21	0.69
1:C:1529:LEU:HA	1:C:1532:ILE:HD12	1.74	0.69
1:D:344:LYS:O	1:D:392:MET:N	2.23	0.69
1:A:515:LEU:HD13	1:A:597:GLU:HG3	1.75	0.69
1:A:1582:MET:HA	1:A:1585:ILE:HD12	1.75	0.69
1:C:127:TYR:HB3	1:C:130:LEU:HD12	1.75	0.69
1:C:456:VAL:N	1:C:496:LEU:O	2.25	0.69
1:C:1756:PHE:O	1:C:1766:GLU:N	2.26	0.69
1:B:54:LEU:HB3	1:B:59:VAL:HG21	1.75	0.69
1:A:127:TYR:HB3	1:A:130:LEU:HD12	1.75	0.69
1:A:250:PRO:O	1:A:838:TYR:OH	2.10	0.69
1:A:824:ASP:OD1	1:A:828:HIS:N	2.21	0.69
1:C:515:LEU:HD13	1:C:597:GLU:HG3	1.75	0.69
1:D:250:PRO:O	1:D:838:TYR:OH	2.10	0.69
1:A:344:LYS:O	1:A:392:MET:N	2.23	0.69
1:A:1529:LEU:HA	1:A:1532:ILE:HD12	1.74	0.69
1:D:54:LEU:HB3	1:D:59:VAL:HG21	1.75	0.69
1:B:288:GLU:O	1:B:290:LYS:NZ	2.22	0.69
1:A:1848:ARG:HE	1:A:1881:ALA:HB2	1.58	0.68
1:B:1383:ASN:O	1:B:1386:THR:OG1	2.10	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:54:LEU:HB3	1:C:59:VAL:HG21	1.75	0.68
1:D:1529:LEU:HA	1:D:1532:ILE:HD12	1.74	0.68
1:B:81:ASP:O	1:B:126:ARG:NE	2.24	0.68
1:B:1756:PHE:O	1:B:1766:GLU:N	2.26	0.68
1:A:1421:LEU:O	1:A:1465:ARG:NH1	2.26	0.68
1:C:1421:LEU:O	1:C:1465:ARG:NH1	2.26	0.68
1:D:1756:PHE:O	1:D:1766:GLU:N	2.26	0.68
1:B:1848:ARG:HE	1:B:1881:ALA:HB2	1.58	0.68
1:A:54:LEU:HB3	1:A:59:VAL:HG21	1.75	0.68
1:D:515:LEU:HD13	1:D:597:GLU:HG3	1.75	0.68
1:D:1548:ALA:O	1:D:1552:GLN:NE2	2.20	0.68
1:B:206:LEU:HD13	1:B:1487:LEU:HD21	1.73	0.68
1:D:206:LEU:HD13	1:D:1487:LEU:HD21	1.73	0.68
1:B:1779:LEU:HD22	1:B:1824:TYR:H	1.57	0.68
1:C:1582:MET:HA	1:C:1585:ILE:HD12	1.75	0.68
1:D:1383:ASN:O	1:D:1386:THR:OG1	2.09	0.68
1:B:1421:LEU:O	1:B:1465:ARG:NH1	2.26	0.68
1:D:1421:LEU:O	1:D:1465:ARG:NH1	2.26	0.68
1:D:1582:MET:HA	1:D:1585:ILE:HD12	1.75	0.68
1:D:1880:HIS:H	1:D:1889:ILE:HG12	1.59	0.68
1:B:250:PRO:O	1:B:838:TYR:OH	2.10	0.68
1:C:212:PRO:HB3	1:C:1446:LYS:HE3	1.75	0.68
1:C:1989:LYS:HA	1:C:1992:ILE:HG12	1.75	0.68
1:D:212:PRO:HB3	1:D:1446:LYS:HE3	1.75	0.68
1:B:212:PRO:HB3	1:B:1446:LYS:HE3	1.75	0.68
1:B:971:LEU:O	1:B:974:SER:OG	2.12	0.68
1:B:1548:ALA:O	1:B:1552:GLN:NE2	2.20	0.68
1:A:212:PRO:HB3	1:A:1446:LYS:HE3	1.75	0.68
1:A:259:GLN:N	1:A:329:VAL:O	2.25	0.68
1:A:456:VAL:N	1:A:496:LEU:O	2.25	0.68
1:A:971:LEU:O	1:A:974:SER:OG	2.11	0.68
1:A:1248:GLU:OE1	1:A:1248:GLU:N	2.21	0.68
1:A:1383:ASN:O	1:A:1386:THR:OG1	2.09	0.68
1:C:317:ALA:HB2	1:C:596:SER:HA	1.76	0.68
1:D:1989:LYS:HA	1:D:1992:ILE:HG12	1.75	0.68
1:A:1865:GLU:O	1:A:1869:GLN:N	2.26	0.67
1:D:317:ALA:HB2	1:D:596:SER:HA	1.76	0.67
1:D:789:ARG:NH2	1:D:846:GLU:OE2	2.27	0.67
1:A:755:GLN:OE1	1:D:1026:THR:OG1	2.11	0.67
1:C:1848:ARG:HE	1:C:1881:ALA:HB2	1.58	0.67
1:D:127:TYR:HB3	1:D:130:LEU:HD12	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:956:ARG:NH1	1:D:1007:LEU:O	2.28	0.67
1:D:1551:VAL:HG12	1:D:1555:MET:HE3	1.77	0.67
1:D:1848:ARG:HE	1:D:1881:ALA:HB2	1.58	0.67
1:A:317:ALA:HB2	1:A:596:SER:HA	1.76	0.67
1:C:956:ARG:NH1	1:C:1007:LEU:O	2.28	0.67
1:B:317:ALA:HB2	1:B:596:SER:HA	1.76	0.67
1:B:1880:HIS:H	1:B:1889:ILE:HG12	1.59	0.67
1:D:229:PRO:O	1:D:1262:LYS:NZ	2.28	0.67
1:D:1631:LEU:O	1:D:1635:GLU:N	2.27	0.67
1:B:515:LEU:HD13	1:B:597:GLU:HG3	1.75	0.67
1:B:1582:MET:HA	1:B:1585:ILE:HD12	1.75	0.67
1:A:1551:VAL:HG12	1:A:1555:MET:HE3	1.77	0.67
1:D:1779:LEU:HD22	1:D:1824:TYR:H	1.57	0.67
1:B:1618:GLN:O	1:B:1622:HIS:ND1	2.28	0.67
1:A:347:GLN:NE2	1:A:350:ASP:O	2.27	0.67
1:A:1880:HIS:H	1:A:1889:ILE:HG12	1.59	0.67
1:A:1989:LYS:HA	1:A:1992:ILE:HG12	1.75	0.67
1:C:1865:GLU:O	1:C:1869:GLN:N	2.26	0.67
1:B:127:TYR:HB3	1:B:130:LEU:HD12	1.75	0.67
1:B:347:GLN:NE2	1:B:350:ASP:O	2.27	0.67
1:A:956:ARG:NH1	1:A:1007:LEU:O	2.28	0.67
1:B:789:ARG:NH2	1:B:846:GLU:OE2	2.27	0.67
1:C:347:GLN:NE2	1:C:350:ASP:O	2.27	0.67
1:C:1880:HIS:H	1:C:1889:ILE:HG12	1.59	0.67
1:B:956:ARG:NH1	1:B:1007:LEU:O	2.28	0.67
1:A:221:THR:O	1:A:225:GLN:NE2	2.28	0.66
1:C:1285:LEU:HA	1:C:1288:LEU:HD12	1.77	0.66
1:B:1285:LEU:HA	1:B:1288:LEU:HD12	1.77	0.66
1:A:1001:LEU:HD12	1:A:1044:PHE:HZ	1.61	0.66
1:D:550:LEU:HD11	1:D:620:LYS:HG3	1.77	0.66
1:D:1618:GLN:O	1:D:1622:HIS:ND1	2.28	0.66
1:B:1001:LEU:HD12	1:B:1044:PHE:HZ	1.61	0.66
1:B:1551:VAL:HG12	1:B:1555:MET:HE3	1.77	0.66
1:B:1865:GLU:O	1:B:1869:GLN:N	2.26	0.66
1:C:284:TYR:HD2	1:C:291:LYS:HA	1.61	0.66
1:C:789:ARG:NH2	1:C:846:GLU:OE2	2.27	0.66
1:C:2014:LEU:HD23	1:C:2017:LEU:HD12	1.77	0.66
1:D:259:GLN:N	1:D:329:VAL:O	2.25	0.66
1:D:971:LEU:O	1:D:974:SER:OG	2.12	0.66
1:D:1248:GLU:OE1	1:D:1248:GLU:N	2.21	0.66
1:B:1989:LYS:HA	1:B:1992:ILE:HG12	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:284:TYR:HD2	1:A:291:LYS:HA	1.61	0.66
1:C:1001:LEU:HD12	1:C:1044:PHE:HZ	1.61	0.66
1:D:1285:LEU:HA	1:D:1288:LEU:HD12	1.77	0.66
1:D:1877:SER:HB2	1:D:1893:HIS:HB3	1.77	0.66
1:C:755:GLN:OE1	1:B:1026:THR:OG1	2.13	0.66
1:A:1618:GLN:O	1:A:1622:HIS:ND1	2.28	0.66
1:C:1804:ASP:O	1:C:1821:GLN:NE2	2.25	0.66
1:D:1504:MET:HG2	1:D:1508:MET:HE2	1.77	0.66
1:A:789:ARG:NH2	1:A:846:GLU:OE2	2.27	0.66
1:A:1530:LYS:HA	1:A:1533:LEU:HD12	1.77	0.66
1:A:2014:LEU:HD23	1:A:2017:LEU:HD12	1.77	0.66
1:C:1504:MET:HG2	1:C:1508:MET:HE2	1.77	0.66
1:C:1877:SER:HB2	1:C:1893:HIS:HB3	1.77	0.66
1:C:1919:ALA:HB1	1:C:1930:LEU:HA	1.78	0.66
1:D:347:GLN:NE2	1:D:350:ASP:O	2.27	0.66
1:A:1858:PRO:HG3	1:A:1870:HIS:HE1	1.60	0.66
1:A:1919:ALA:HB1	1:A:1930:LEU:HA	1.78	0.66
1:C:971:LEU:O	1:C:974:SER:OG	2.11	0.66
1:C:1551:VAL:HG12	1:C:1555:MET:HE3	1.77	0.66
1:C:1604:ALA:HB1	1:C:1693:TYR:HE2	1.61	0.66
1:C:1618:GLN:O	1:C:1622:HIS:ND1	2.28	0.66
1:D:824:ASP:OD1	1:D:828:HIS:N	2.22	0.66
1:C:1971:ARG:NE	1:C:2017:LEU:O	2.29	0.66
1:D:1001:LEU:HD12	1:D:1044:PHE:HZ	1.61	0.66
1:B:247:CYS:HA	1:B:826:ARG:HD2	1.78	0.66
1:B:284:TYR:HD2	1:B:291:LYS:HA	1.61	0.66
1:B:344:LYS:O	1:B:392:MET:N	2.23	0.66
1:A:550:LEU:HD11	1:A:620:LYS:HG3	1.77	0.65
1:A:798:VAL:HG12	1:A:800:LEU:HB2	1.79	0.65
1:A:1285:LEU:HA	1:A:1288:LEU:HD12	1.77	0.65
1:D:1858:PRO:HG3	1:D:1870:HIS:HE1	1.60	0.65
1:C:294:GLU:OE1	1:C:552:TYR:OH	2.14	0.65
1:C:1858:PRO:HG3	1:C:1870:HIS:HE1	1.60	0.65
1:D:247:CYS:HA	1:D:826:ARG:HD2	1.78	0.65
1:D:656:PHE:N	1:D:677:SER:O	2.28	0.65
1:D:1865:GLU:O	1:D:1869:GLN:N	2.26	0.65
1:B:550:LEU:HD11	1:B:620:LYS:HG3	1.77	0.65
1:B:1504:MET:HG2	1:B:1508:MET:HE2	1.77	0.65
1:A:1504:MET:HG2	1:A:1508:MET:HE2	1.77	0.65
1:D:2014:LEU:HD23	1:D:2017:LEU:HD12	1.77	0.65
1:B:1858:PRO:HG3	1:B:1870:HIS:HE1	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:259:GLN:N	1:C:329:VAL:O	2.25	0.65
1:D:294:GLU:OE1	1:D:552:TYR:OH	2.14	0.65
1:B:1604:ALA:HB1	1:B:1693:TYR:HE2	1.61	0.65
1:B:1877:SER:N	1:B:1893:HIS:O	2.29	0.65
1:A:294:GLU:OE1	1:A:552:TYR:OH	2.14	0.65
1:D:456:VAL:N	1:D:496:LEU:O	2.25	0.65
1:A:1756:PHE:O	1:A:1766:GLU:N	2.25	0.65
1:A:1877:SER:HB2	1:A:1893:HIS:HB3	1.77	0.65
1:A:1877:SER:N	1:A:1893:HIS:O	2.29	0.65
1:C:798:VAL:HG12	1:C:800:LEU:HB2	1.79	0.65
1:C:1450:LEU:HD12	1:C:1454:GLU:HB2	1.79	0.65
1:C:1530:LYS:HA	1:C:1533:LEU:HD12	1.77	0.65
1:C:1738:MET:HG3	1:D:1721:LYS:HA	1.78	0.65
1:B:1631:LEU:O	1:B:1635:GLU:N	2.27	0.65
1:B:2014:LEU:HD23	1:B:2017:LEU:HD12	1.77	0.65
1:A:466:ARG:HD3	1:A:616:TYR:CD2	2.32	0.65
1:C:466:ARG:HD3	1:C:616:TYR:CD2	2.32	0.65
1:B:221:THR:O	1:B:225:GLN:NE2	2.28	0.65
1:B:1450:LEU:HD12	1:B:1454:GLU:HB2	1.79	0.65
1:C:247:CYS:HA	1:C:826:ARG:HD2	1.79	0.65
1:C:229:PRO:O	1:C:1262:LYS:NZ	2.28	0.65
1:B:259:GLN:N	1:B:329:VAL:O	2.25	0.65
1:B:1399:ILE:O	1:B:1403:VAL:HG23	1.97	0.65
1:B:1420:VAL:O	1:B:1423:SER:OG	2.10	0.65
1:C:1392:VAL:O	1:C:1395:THR:OG1	2.15	0.65
1:D:284:TYR:HD2	1:D:291:LYS:HA	1.61	0.65
1:D:1604:ALA:HB1	1:D:1693:TYR:HE2	1.61	0.65
1:A:229:PRO:O	1:A:1262:LYS:NZ	2.28	0.64
1:A:1399:ILE:O	1:A:1403:VAL:HG23	1.97	0.64
1:A:1428:GLN:HB3	1:A:1432:PHE:HD2	1.62	0.64
1:A:1604:ALA:HB1	1:A:1693:TYR:HE2	1.61	0.64
1:C:344:LYS:O	1:C:392:MET:N	2.23	0.64
1:D:466:ARG:HD3	1:D:616:TYR:CD2	2.32	0.64
1:D:1428:GLN:HB3	1:D:1432:PHE:HD2	1.62	0.64
1:D:1530:LYS:HA	1:D:1533:LEU:HD12	1.77	0.64
1:B:1877:SER:HB2	1:B:1893:HIS:HB3	1.77	0.64
1:B:1919:ALA:HB1	1:B:1930:LEU:HA	1.78	0.64
1:B:1971:ARG:NE	1:B:2017:LEU:O	2.29	0.64
1:A:1590:GLN:OE1	1:A:1596:ARG:NH1	2.30	0.64
1:D:221:THR:O	1:D:225:GLN:NE2	2.28	0.64
1:B:229:PRO:O	1:B:1262:LYS:NZ	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1392:VAL:O	1:B:1395:THR:OG1	2.15	0.64
1:B:1428:GLN:HB3	1:B:1432:PHE:HD2	1.62	0.64
1:A:247:CYS:HA	1:A:826:ARG:HD2	1.79	0.64
1:A:1420:VAL:O	1:A:1423:SER:OG	2.10	0.64
1:D:1590:GLN:OE1	1:D:1596:ARG:NH1	2.30	0.64
1:D:1877:SER:N	1:D:1893:HIS:O	2.29	0.64
1:C:1603:MET:O	1:C:1607:HIS:ND1	2.21	0.64
1:D:1919:ALA:HB1	1:D:1930:LEU:HA	1.78	0.64
1:A:1971:ARG:NE	1:A:2017:LEU:O	2.29	0.64
1:C:221:THR:O	1:C:225:GLN:NE2	2.28	0.64
1:B:1486:TYR:HA	1:B:1489:MET:HE2	1.80	0.64
1:B:1590:GLN:OE1	1:B:1596:ARG:NH1	2.30	0.64
1:A:1450:LEU:HD12	1:A:1454:GLU:HB2	1.79	0.64
1:C:1399:ILE:O	1:C:1403:VAL:HG23	1.97	0.64
1:B:798:VAL:HG12	1:B:800:LEU:HB2	1.79	0.64
1:A:1870:HIS:HA	1:A:1904:VAL:HG21	1.80	0.64
1:D:798:VAL:HG12	1:D:800:LEU:HB2	1.79	0.64
1:D:1392:VAL:O	1:D:1395:THR:OG1	2.15	0.64
1:D:1450:LEU:HD12	1:D:1454:GLU:HB2	1.79	0.64
1:D:1508:MET:O	1:D:1511:SER:OG	2.15	0.64
1:D:1971:ARG:NE	1:D:2017:LEU:O	2.29	0.64
1:B:456:VAL:N	1:B:496:LEU:O	2.25	0.64
1:B:466:ARG:HD3	1:B:616:TYR:CD2	2.32	0.64
1:B:1508:MET:O	1:B:1511:SER:OG	2.15	0.64
1:B:1870:HIS:HA	1:B:1904:VAL:HG21	1.80	0.64
1:C:550:LEU:HD11	1:C:620:LYS:HG3	1.77	0.64
1:C:1870:HIS:HA	1:C:1904:VAL:HG21	1.80	0.64
1:D:1399:ILE:O	1:D:1403:VAL:HG23	1.97	0.64
1:D:1486:TYR:HA	1:D:1489:MET:HE2	1.80	0.64
1:B:286:VAL:N	1:B:335:ASP:O	2.29	0.64
1:C:544:HIS:CE1	1:C:774:ALA:HB1	2.33	0.64
1:C:1160:ARG:HA	1:C:1163:GLU:CD	2.22	0.64
1:C:1428:GLN:HB3	1:C:1432:PHE:HD2	1.62	0.64
1:D:1870:HIS:HA	1:D:1904:VAL:HG21	1.80	0.64
1:D:1900:THR:O	1:D:1904:VAL:N	2.30	0.64
1:C:1590:GLN:OE1	1:C:1596:ARG:NH1	2.30	0.64
1:D:1495:ILE:HG13	1:D:1496:GLY:N	2.14	0.63
1:A:1603:MET:O	1:A:1607:HIS:ND1	2.21	0.63
1:C:1486:TYR:HA	1:C:1489:MET:HE2	1.80	0.63
1:D:1160:ARG:HA	1:D:1163:GLU:CD	2.22	0.63
1:B:544:HIS:CE1	1:B:774:ALA:HB1	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1530:LYS:HA	1:B:1533:LEU:HD12	1.78	0.63
1:A:509:PHE:HA	1:A:521:TYR:HD1	1.64	0.63
1:A:544:HIS:CE1	1:A:774:ALA:HB1	2.33	0.63
1:B:1160:ARG:HA	1:B:1163:GLU:CD	2.22	0.63
1:D:581:ASP:OD2	1:D:583:SER:OG	2.13	0.63
1:B:1495:ILE:HG13	1:B:1496:GLY:N	2.14	0.63
1:C:1864:GLY:N	1:C:1869:GLN:OE1	2.30	0.63
1:C:1875:LEU:N	1:C:1895:GLU:O	2.28	0.63
1:D:1954:LEU:HD21	1:D:1970:LEU:HB3	1.81	0.63
1:A:283:LEU:N	1:A:293:SER:OG	2.28	0.63
1:A:581:ASP:OD2	1:A:583:SER:OG	2.13	0.63
1:A:1160:ARG:HA	1:A:1163:GLU:CD	2.22	0.63
1:C:509:PHE:HA	1:C:521:TYR:HD1	1.64	0.63
1:C:1954:LEU:HD21	1:C:1970:LEU:HB3	1.81	0.63
1:D:544:HIS:CE1	1:D:774:ALA:HB1	2.33	0.63
1:D:559:ASN:OD1	1:D:561:SER:OG	2.12	0.63
1:B:1900:THR:O	1:B:1904:VAL:N	2.30	0.63
1:A:1727:HIS:HE1	1:B:1730:LEU:HD13	1.63	0.63
1:C:286:VAL:N	1:C:335:ASP:O	2.29	0.63
1:B:1804:ASP:O	1:B:1821:GLN:NE2	2.25	0.63
1:A:1485:LEU:HG	1:A:1489:MET:HE1	1.81	0.62
1:A:1631:LEU:O	1:A:1635:GLU:N	2.27	0.62
1:B:1954:LEU:HD21	1:B:1970:LEU:HB3	1.81	0.62
1:A:1495:ILE:HG13	1:A:1496:GLY:N	2.14	0.62
1:A:1590:GLN:HA	1:A:1596:ARG:HH11	1.65	0.62
1:C:283:LEU:N	1:C:293:SER:OG	2.28	0.62
1:C:1761:PHE:CZ	1:C:1818:ALA:HB1	2.34	0.62
1:D:312:HIS:HB3	1:D:389:ARG:HB2	1.82	0.62
1:D:1761:PHE:CZ	1:D:1818:ALA:HB1	2.34	0.62
1:C:1631:LEU:O	1:C:1635:GLU:N	2.27	0.62
1:D:1485:LEU:HG	1:D:1489:MET:HE1	1.81	0.62
1:B:1590:GLN:HA	1:B:1596:ARG:HH11	1.65	0.62
1:A:1954:LEU:HD21	1:A:1970:LEU:HB3	1.81	0.62
1:C:1590:GLN:HA	1:C:1596:ARG:HH11	1.64	0.62
1:B:303:ASP:HA	1:B:306:LYS:HD2	1.82	0.62
1:C:1485:LEU:HG	1:C:1489:MET:HE1	1.82	0.62
1:C:1731:GLN:OE1	1:D:1728:GLY:N	2.33	0.62
1:C:1877:SER:N	1:C:1893:HIS:O	2.29	0.62
1:D:1495:ILE:HG13	1:D:1496:GLY:H	1.65	0.62
1:B:312:HIS:HB3	1:B:389:ARG:HB2	1.82	0.62
1:B:1400:VAL:O	1:B:1403:VAL:N	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:206:LEU:O	1:A:208:GLU:N	2.33	0.62
1:A:730:LEU:HD23	1:A:757:LEU:HA	1.82	0.62
1:A:1486:TYR:HA	1:A:1489:MET:HE2	1.80	0.62
1:A:1801:ILE:HG23	1:A:1822:ILE:HD12	1.82	0.62
1:C:301:ASN:HB3	1:C:305:MET:HB2	1.81	0.62
1:C:482:PRO:HA	1:C:486:LEU:HD12	1.82	0.62
1:C:1400:VAL:O	1:C:1403:VAL:N	2.33	0.62
1:D:1590:GLN:HA	1:D:1596:ARG:HH11	1.65	0.62
1:B:1386:THR:O	1:B:1389:SER:OG	2.16	0.62
1:B:1801:ILE:HG23	1:B:1822:ILE:HD12	1.82	0.62
1:A:312:HIS:HB3	1:A:389:ARG:HB2	1.82	0.62
1:A:1711:ILE:HG23	1:A:1723:LEU:HD22	1.81	0.62
1:C:312:HIS:HB3	1:C:389:ARG:HB2	1.82	0.62
1:D:934:PHE:O	1:D:938:MET:HG3	2.00	0.62
1:B:482:PRO:HA	1:B:486:LEU:HD12	1.82	0.62
1:A:482:PRO:HA	1:A:486:LEU:HD12	1.82	0.62
1:A:1400:VAL:O	1:A:1403:VAL:N	2.33	0.62
1:C:1386:THR:O	1:C:1390:LEU:HG	1.99	0.62
1:D:509:PHE:HA	1:D:521:TYR:HD1	1.64	0.62
1:D:730:LEU:HD23	1:D:757:LEU:HA	1.82	0.62
1:C:303:ASP:HA	1:C:306:LYS:HD2	1.82	0.62
1:C:1801:ILE:HG23	1:C:1822:ILE:HD12	1.82	0.62
1:C:1900:THR:O	1:C:1904:VAL:N	2.30	0.62
1:D:283:LEU:N	1:D:293:SER:OG	2.28	0.62
1:D:1386:THR:O	1:D:1390:LEU:HG	1.99	0.62
1:D:1400:VAL:O	1:D:1403:VAL:N	2.33	0.62
1:B:301:ASN:HB3	1:B:305:MET:HB2	1.81	0.62
1:B:1386:THR:O	1:B:1390:LEU:HG	1.99	0.62
1:A:303:ASP:HA	1:A:306:LYS:HD2	1.82	0.62
1:A:1495:ILE:HG13	1:A:1496:GLY:H	1.65	0.62
1:A:1875:LEU:N	1:A:1895:GLU:O	2.28	0.62
1:D:482:PRO:HA	1:D:486:LEU:HD12	1.82	0.62
1:D:1409:ARG:NH2	1:D:1447:PHE:HB2	2.15	0.62
1:B:509:PHE:HA	1:B:521:TYR:HD1	1.64	0.62
1:B:1485:LEU:HG	1:B:1489:MET:HE1	1.81	0.62
1:A:1900:THR:O	1:A:1904:VAL:N	2.30	0.61
1:C:1508:MET:O	1:C:1511:SER:OG	2.15	0.61
1:D:1765:ASP:O	1:D:1767:GLN:NE2	2.31	0.61
1:D:1804:ASP:O	1:D:1821:GLN:NE2	2.25	0.61
1:A:1386:THR:O	1:A:1390:LEU:HG	1.99	0.61
1:A:1412:VAL:O	1:A:1416:VAL:HG23	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1409:ARG:NH2	1:C:1447:PHE:HB2	2.15	0.61
1:B:1761:PHE:CZ	1:B:1818:ALA:HB1	2.34	0.61
1:B:1765:ASP:O	1:B:1767:GLN:NE2	2.31	0.61
1:A:1761:PHE:CZ	1:A:1818:ALA:HB1	2.34	0.61
1:C:1270:GLN:O	1:C:1274:THR:OG1	2.15	0.61
1:C:1495:ILE:HG13	1:C:1496:GLY:H	1.65	0.61
1:C:1495:ILE:HG13	1:C:1496:GLY:N	2.14	0.61
1:D:303:ASP:HA	1:D:306:LYS:HD2	1.82	0.61
1:B:934:PHE:O	1:B:938:MET:HG3	2.00	0.61
1:B:1700:TYR:HB2	1:B:1737:ILE:HD11	1.82	0.61
1:A:1409:ARG:NH2	1:A:1447:PHE:HB2	2.15	0.61
1:C:206:LEU:O	1:C:208:GLU:N	2.33	0.61
1:C:730:LEU:HD23	1:C:757:LEU:HA	1.82	0.61
1:D:1523:GLU:OE2	1:D:1527:ARG:NH2	2.33	0.61
1:B:559:ASN:OD1	1:B:561:SER:OG	2.12	0.61
1:B:656:PHE:N	1:B:677:SER:O	2.28	0.61
1:B:1270:GLN:O	1:B:1274:THR:OG1	2.15	0.61
1:B:1412:VAL:O	1:B:1416:VAL:HG23	2.00	0.61
1:B:1523:GLU:OE2	1:B:1527:ARG:NH2	2.33	0.61
1:A:484:SER:HB2	1:C:1370:THR:N	2.16	0.61
1:C:1711:ILE:HG23	1:C:1723:LEU:HD22	1.81	0.61
1:D:1412:VAL:O	1:D:1416:VAL:HG23	2.00	0.61
1:C:1700:TYR:HB2	1:C:1737:ILE:HD11	1.82	0.61
1:C:1765:ASP:O	1:C:1767:GLN:NE2	2.31	0.61
1:D:1711:ILE:HG23	1:D:1723:LEU:HD22	1.81	0.61
1:B:294:GLU:OE1	1:B:552:TYR:OH	2.14	0.61
1:B:1551:VAL:O	1:B:1555:MET:HG3	2.01	0.61
1:A:1864:GLY:N	1:A:1869:GLN:OE1	2.30	0.61
1:C:1449:GLU:CD	1:C:1449:GLU:H	2.09	0.61
1:D:301:ASN:HB3	1:D:305:MET:HB2	1.81	0.61
1:D:1700:TYR:HB2	1:D:1737:ILE:HD11	1.82	0.61
1:D:1801:ILE:HG23	1:D:1822:ILE:HD12	1.82	0.61
1:A:301:ASN:HB3	1:A:305:MET:HB2	1.81	0.61
1:C:1412:VAL:O	1:C:1416:VAL:HG23	2.00	0.61
1:D:333:SER:OG	1:D:335:ASP:OD2	2.19	0.61
1:D:583:SER:O	1:D:600:ARG:NH2	2.34	0.61
1:B:333:SER:OG	1:B:335:ASP:OD2	2.19	0.61
1:B:1409:ARG:NH2	1:B:1447:PHE:HB2	2.15	0.61
1:B:1495:ILE:HG13	1:B:1496:GLY:H	1.65	0.61
1:A:1417:LEU:HA	1:A:1420:VAL:HG12	1.83	0.61
1:A:1523:GLU:OE2	1:A:1527:ARG:NH2	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:730:LEU:HD23	1:B:757:LEU:HA	1.82	0.61
1:B:1417:LEU:HA	1:B:1420:VAL:HG12	1.83	0.61
1:D:1630:TYR:CZ	1:D:1673:CYS:HB2	2.36	0.61
1:B:206:LEU:O	1:B:208:GLU:N	2.33	0.61
1:C:333:SER:OG	1:C:335:ASP:OD2	2.19	0.60
1:C:1523:GLU:OE2	1:C:1527:ARG:NH2	2.33	0.60
1:B:309:LEU:HD21	1:B:391:ARG:HH22	1.65	0.60
1:B:1938:VAL:HG11	1:B:2007:TYR:HB2	1.84	0.60
1:C:1417:LEU:HA	1:C:1420:VAL:HG12	1.83	0.60
1:D:309:LEU:HD21	1:D:391:ARG:HH22	1.65	0.60
1:B:1630:TYR:CZ	1:B:1673:CYS:HB2	2.36	0.60
1:A:583:SER:O	1:A:600:ARG:NH2	2.34	0.60
1:A:1890:ARG:NH1	1:A:1891:VAL:O	2.34	0.60
1:C:1890:ARG:NH1	1:C:1891:VAL:O	2.34	0.60
1:D:569:ASN:O	1:D:639:HIS:ND1	2.33	0.60
1:D:1551:VAL:O	1:D:1555:MET:HG3	2.01	0.60
1:B:1890:ARG:NH1	1:B:1891:VAL:O	2.34	0.60
1:A:934:PHE:O	1:A:938:MET:HG3	2.00	0.60
1:A:1026:THR:OG1	1:D:755:GLN:OE1	2.19	0.60
1:A:1449:GLU:CD	1:A:1449:GLU:H	2.09	0.60
1:C:309:LEU:HD21	1:C:391:ARG:HH22	1.66	0.60
1:C:569:ASN:HB2	1:C:639:HIS:HE1	1.67	0.60
1:C:656:PHE:N	1:C:677:SER:O	2.28	0.60
1:C:1593:PRO:HG2	1:C:1673:CYS:SG	2.41	0.60
1:D:206:LEU:O	1:D:208:GLU:N	2.33	0.60
1:B:1864:GLY:N	1:B:1869:GLN:OE1	2.30	0.60
1:C:1420:VAL:O	1:C:1423:SER:OG	2.10	0.60
1:C:1817:LYS:HB3	1:C:1819:TYR:CE2	2.37	0.60
1:D:1417:LEU:HA	1:D:1420:VAL:HG12	1.83	0.60
1:D:1890:ARG:NH1	1:D:1891:VAL:O	2.35	0.60
1:D:1938:VAL:HG11	1:D:2007:TYR:HB2	1.84	0.60
1:A:1525:LEU:O	1:A:1528:SER:OG	2.15	0.60
1:A:1630:TYR:CZ	1:A:1673:CYS:HB2	2.36	0.60
1:A:1756:PHE:HB2	1:A:1764:LEU:O	2.02	0.60
1:D:1593:PRO:HG2	1:D:1673:CYS:SG	2.41	0.60
1:D:1858:PRO:HG3	1:D:1870:HIS:CE1	2.37	0.60
1:D:1954:LEU:HD22	1:D:1971:ARG:HG3	1.83	0.60
1:B:1449:GLU:H	1:B:1449:GLU:CD	2.09	0.60
1:A:333:SER:OG	1:A:335:ASP:OD2	2.19	0.60
1:A:569:ASN:HB2	1:A:639:HIS:HE1	1.67	0.60
1:A:1954:LEU:HD22	1:A:1971:ARG:HG3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:934:PHE:O	1:C:938:MET:HG3	2.00	0.60
1:C:1650:ILE:O	1:C:1845:TYR:OH	2.18	0.60
1:C:1954:LEU:HD22	1:C:1971:ARG:HG3	1.83	0.60
1:B:97:PRO:HB2	1:B:99:ILE:HG13	1.84	0.60
1:B:583:SER:O	1:B:600:ARG:NH2	2.34	0.60
1:A:1551:VAL:O	1:A:1555:MET:HG3	2.01	0.60
1:A:1700:TYR:HB2	1:A:1737:ILE:HD11	1.82	0.60
1:C:97:PRO:HB2	1:C:99:ILE:HG13	1.84	0.60
1:C:583:SER:O	1:C:600:ARG:NH2	2.34	0.60
1:C:1551:VAL:O	1:C:1555:MET:HG3	2.01	0.60
1:C:1938:VAL:HG11	1:C:2007:TYR:HB2	1.84	0.60
1:D:1817:LYS:HB3	1:D:1819:TYR:CE2	2.37	0.60
1:B:1817:LYS:HB3	1:B:1819:TYR:CE2	2.37	0.60
1:A:309:LEU:HD21	1:A:391:ARG:HH22	1.65	0.60
1:A:1508:MET:O	1:A:1511:SER:OG	2.15	0.60
1:A:1804:ASP:O	1:A:1821:GLN:NE2	2.25	0.60
1:C:1386:THR:O	1:C:1389:SER:OG	2.16	0.60
1:C:1720:TYR:CE2	1:D:1738:MET:HE2	2.35	0.60
1:C:1802:ILE:HD13	1:C:1808:VAL:HG11	1.83	0.60
1:D:1809:ASP:H	1:D:1812:LYS:HZ3	1.50	0.60
1:B:1711:ILE:HG23	1:B:1723:LEU:HD22	1.81	0.60
1:A:1392:VAL:O	1:A:1395:THR:OG1	2.15	0.60
1:D:1270:GLN:O	1:D:1274:THR:OG1	2.16	0.60
1:B:1858:PRO:HG3	1:B:1870:HIS:CE1	2.37	0.60
1:B:1954:LEU:HD22	1:B:1971:ARG:HG3	1.83	0.60
1:B:1963:LEU:O	1:B:1967:HIS:ND1	2.25	0.60
1:A:97:PRO:HB2	1:A:99:ILE:HG13	1.84	0.59
1:A:569:ASN:O	1:A:639:HIS:ND1	2.33	0.59
1:A:1058:ASN:HB3	1:A:1107:HIS:HB3	1.84	0.59
1:A:1765:ASP:O	1:A:1767:GLN:NE2	2.31	0.59
1:C:1707:TYR:O	1:C:1711:ILE:HD12	2.02	0.59
1:C:1756:PHE:HB2	1:C:1764:LEU:O	2.02	0.59
1:D:1875:LEU:N	1:D:1895:GLU:O	2.28	0.59
1:B:1756:PHE:HB2	1:B:1764:LEU:O	2.02	0.59
1:A:1503:LYS:HD2	1:A:1554:LEU:HD13	1.84	0.59
1:C:1503:LYS:HD2	1:C:1554:LEU:HD13	1.85	0.59
1:D:623:LEU:HD11	1:D:627:VAL:HG22	1.84	0.59
1:D:1386:THR:O	1:D:1389:SER:OG	2.16	0.59
1:D:1802:ILE:HD13	1:D:1808:VAL:HG11	1.83	0.59
1:B:283:LEU:N	1:B:293:SER:OG	2.28	0.59
1:A:1858:PRO:HG3	1:A:1870:HIS:CE1	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1058:ASN:HB3	1:C:1107:HIS:HB3	1.84	0.59
1:C:1630:TYR:CZ	1:C:1673:CYS:HB2	2.36	0.59
1:D:97:PRO:HB2	1:D:99:ILE:HG13	1.84	0.59
1:B:1593:PRO:HG2	1:B:1673:CYS:SG	2.41	0.59
1:A:1593:PRO:HG2	1:A:1673:CYS:SG	2.41	0.59
1:A:1707:TYR:O	1:A:1711:ILE:HD12	2.02	0.59
1:C:988:GLU:OE2	1:C:992:HIS:ND1	2.36	0.59
1:D:543:PRO:HA	1:D:774:ALA:HA	1.85	0.59
1:D:988:GLU:OE2	1:D:992:HIS:ND1	2.36	0.59
1:B:1707:TYR:O	1:B:1711:ILE:HD12	2.02	0.59
1:B:1802:ILE:HD13	1:B:1808:VAL:HG11	1.83	0.59
1:A:569:ASN:HB2	1:A:639:HIS:CE1	2.38	0.59
1:A:1730:LEU:HD13	1:B:1727:HIS:HE1	1.66	0.59
1:A:1802:ILE:HD13	1:A:1808:VAL:HG11	1.83	0.59
1:A:1817:LYS:HB3	1:A:1819:TYR:CE2	2.37	0.59
1:D:1051:HIS:CE1	1:D:1053:HIS:H	2.21	0.59
1:B:569:ASN:HB2	1:B:639:HIS:CE1	2.38	0.59
1:A:345:VAL:HG22	1:A:391:ARG:CZ	2.33	0.59
1:A:988:GLU:OE2	1:A:992:HIS:ND1	2.36	0.59
1:A:1097:PHE:HE1	1:A:1268:LEU:HD11	1.68	0.59
1:C:261:ILE:N	1:C:327:PHE:O	2.36	0.59
1:C:345:VAL:HG22	1:C:391:ARG:CZ	2.33	0.59
1:C:569:ASN:HB2	1:C:639:HIS:CE1	2.38	0.59
1:B:345:VAL:HG22	1:B:391:ARG:CZ	2.33	0.59
1:A:263:VAL:HG22	1:A:500:ILE:HG12	1.84	0.59
1:A:1809:ASP:H	1:A:1812:LYS:HZ3	1.51	0.59
1:D:551:LEU:HB3	1:D:621:LEU:HB2	1.85	0.59
1:D:569:ASN:HB2	1:D:639:HIS:HE1	1.67	0.59
1:B:1503:LYS:HD2	1:B:1554:LEU:HD13	1.85	0.59
1:A:286:VAL:N	1:A:335:ASP:O	2.29	0.59
1:A:322:ALA:HA	1:A:528:PRO:HG2	1.85	0.59
1:A:623:LEU:HD11	1:A:627:VAL:HG22	1.85	0.59
1:C:567:VAL:HG13	1:C:570:LEU:HD21	1.85	0.59
1:C:1097:PHE:HE1	1:C:1268:LEU:HD11	1.68	0.59
1:C:1490:ARG:NE	1:C:1494:GLU:OE2	2.22	0.59
1:D:1058:ASN:HB3	1:D:1107:HIS:HB3	1.84	0.59
1:D:1864:GLY:N	1:D:1869:GLN:OE1	2.30	0.59
1:B:263:VAL:HG22	1:B:500:ILE:HG12	1.84	0.59
1:B:567:VAL:HG13	1:B:570:LEU:HD21	1.85	0.59
1:B:569:ASN:HB2	1:B:639:HIS:HE1	1.67	0.59
1:A:1650:ILE:O	1:A:1845:TYR:OH	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:263:VAL:HG22	1:C:500:ILE:HG12	1.84	0.59
1:C:322:ALA:HA	1:C:528:PRO:HG2	1.85	0.59
1:D:263:VAL:HG22	1:D:500:ILE:HG12	1.84	0.59
1:D:286:VAL:N	1:D:335:ASP:O	2.29	0.59
1:D:1503:LYS:HD2	1:D:1554:LEU:HD13	1.85	0.59
1:D:1707:TYR:O	1:D:1711:ILE:HD12	2.02	0.59
1:D:1756:PHE:HB2	1:D:1764:LEU:O	2.02	0.59
1:B:261:ILE:N	1:B:327:PHE:O	2.36	0.59
1:B:543:PRO:HA	1:B:774:ALA:HA	1.84	0.59
1:B:623:LEU:HD11	1:B:627:VAL:HG22	1.84	0.59
1:B:1769:PHE:HB3	1:B:1888:ARG:HB2	1.85	0.59
1:A:551:LEU:HB3	1:A:621:LEU:HB2	1.85	0.59
1:A:1447:PHE:CE2	1:A:1450:LEU:HB2	2.38	0.59
1:A:1938:VAL:HG11	1:A:2007:TYR:HB2	1.84	0.59
1:C:283:LEU:HD22	1:C:336:ILE:HG22	1.85	0.59
1:C:1769:PHE:HB3	1:C:1888:ARG:HB2	1.85	0.59
1:D:1531:THR:O	1:D:1534:THR:OG1	2.18	0.59
1:B:569:ASN:O	1:B:639:HIS:ND1	2.33	0.59
1:B:1051:HIS:CE1	1:B:1053:HIS:H	2.21	0.59
1:B:1531:THR:O	1:B:1534:THR:OG1	2.18	0.59
1:A:567:VAL:HG13	1:A:570:LEU:HD21	1.85	0.58
1:A:1721:LYS:HA	1:B:1738:MET:HG3	1.85	0.58
1:C:390:TYR:HB3	1:C:606:VAL:HG21	1.85	0.58
1:D:141:THR:HB	1:D:145:ARG:NH2	2.18	0.58
1:D:1449:GLU:H	1:D:1449:GLU:CD	2.09	0.58
1:A:1051:HIS:CE1	1:A:1053:HIS:H	2.21	0.58
1:A:1769:PHE:HB3	1:A:1888:ARG:HB2	1.85	0.58
1:D:1447:PHE:CE2	1:D:1450:LEU:HB2	2.38	0.58
1:D:1769:PHE:HB3	1:D:1888:ARG:HB2	1.85	0.58
1:B:283:LEU:HD22	1:B:336:ILE:HG22	1.85	0.58
1:B:988:GLU:OE2	1:B:992:HIS:ND1	2.36	0.58
1:A:656:PHE:N	1:A:677:SER:O	2.28	0.58
1:A:1531:THR:O	1:A:1534:THR:OG1	2.18	0.58
1:A:1802:ILE:HD11	1:A:1819:TYR:HB3	1.85	0.58
1:C:559:ASN:OD1	1:C:561:SER:OG	2.12	0.58
1:D:1097:PHE:HE1	1:D:1268:LEU:HD11	1.68	0.58
1:B:1447:PHE:CE2	1:B:1450:LEU:HB2	2.38	0.58
1:B:1793:ARG:HA	1:B:1793:ARG:NE	2.19	0.58
1:A:100:PRO:HD3	1:A:547:TYR:CE2	2.39	0.58
1:D:283:LEU:HD22	1:D:336:ILE:HG22	1.85	0.58
1:D:632:HIS:CD2	1:D:634:LEU:HB2	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1793:ARG:NE	1:D:1793:ARG:HA	2.19	0.58
1:B:390:TYR:HB3	1:B:606:VAL:HG21	1.85	0.58
1:B:1490:ARG:NE	1:B:1494:GLU:OE2	2.22	0.58
1:A:261:ILE:N	1:A:327:PHE:O	2.36	0.58
1:A:1386:THR:O	1:A:1389:SER:OG	2.16	0.58
1:A:1451:LEU:HB3	1:A:1459:CYS:HB2	1.86	0.58
1:A:1728:GLY:N	1:B:1731:GLN:OE1	2.37	0.58
1:C:1858:PRO:HG3	1:C:1870:HIS:CE1	2.37	0.58
1:D:345:VAL:HG22	1:D:391:ARG:CZ	2.33	0.58
1:D:567:VAL:HG13	1:D:570:LEU:HD21	1.85	0.58
1:D:835:TYR:HD1	1:D:839:ALA:HB3	1.69	0.58
1:B:141:THR:HB	1:B:145:ARG:NH2	2.18	0.58
1:B:551:LEU:HB3	1:B:621:LEU:HB2	1.85	0.58
1:C:1447:PHE:CE2	1:C:1450:LEU:HB2	2.38	0.58
1:C:1451:LEU:HB3	1:C:1459:CYS:HB2	1.86	0.58
1:B:1058:ASN:HB3	1:B:1107:HIS:HB3	1.84	0.58
1:A:632:HIS:CD2	1:A:634:LEU:HB2	2.39	0.58
1:A:1167:PRO:O	1:A:1171:ILE:HD12	2.04	0.58
1:B:1603:MET:O	1:B:1607:HIS:ND1	2.21	0.58
1:A:283:LEU:HD22	1:A:336:ILE:HG22	1.85	0.58
1:A:559:ASN:OD1	1:A:561:SER:OG	2.12	0.58
1:A:1730:LEU:HD13	1:B:1727:HIS:CE1	2.38	0.58
1:C:835:TYR:HD1	1:C:839:ALA:HB3	1.69	0.58
1:C:1167:PRO:O	1:C:1171:ILE:HD12	2.04	0.58
1:D:1594:ASP:HA	1:D:1678:PHE:HE2	1.69	0.58
1:D:1963:LEU:O	1:D:1967:HIS:ND1	2.25	0.58
1:A:141:THR:HB	1:A:145:ARG:NH2	2.18	0.58
1:A:835:TYR:HD1	1:A:839:ALA:HB3	1.69	0.58
1:C:623:LEU:HD11	1:C:627:VAL:HG22	1.84	0.58
1:C:663:GLN:HB2	1:C:668:ARG:HG2	1.86	0.58
1:C:1531:THR:O	1:C:1534:THR:OG1	2.18	0.58
1:D:100:PRO:HD3	1:D:547:TYR:CE2	2.39	0.58
1:D:663:GLN:HB2	1:D:668:ARG:HG2	1.86	0.58
1:B:100:PRO:HD3	1:B:547:TYR:CE2	2.39	0.58
1:B:104:LYS:NZ	1:B:105:LEU:O	2.37	0.58
1:B:632:HIS:CD2	1:B:634:LEU:HB2	2.39	0.58
1:A:543:PRO:HA	1:A:774:ALA:HA	1.84	0.58
1:A:1270:GLN:O	1:A:1274:THR:OG1	2.15	0.58
1:A:1594:ASP:HA	1:A:1678:PHE:HE2	1.69	0.58
1:C:543:PRO:HA	1:C:774:ALA:HA	1.84	0.58
1:C:569:ASN:O	1:C:639:HIS:ND1	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:569:ASN:HB2	1:D:639:HIS:CE1	2.38	0.58
1:B:835:TYR:HD1	1:B:839:ALA:HB3	1.69	0.58
1:B:1097:PHE:HE1	1:B:1268:LEU:HD11	1.68	0.58
1:A:1568:MET:HA	1:A:1578:LEU:HD11	1.86	0.57
1:C:1568:MET:HA	1:C:1578:LEU:HD11	1.86	0.57
1:D:1802:ILE:HD11	1:D:1819:TYR:HB3	1.85	0.57
1:C:1753:ARG:N	1:C:1823:THR:O	2.35	0.57
1:C:1809:ASP:H	1:C:1812:LYS:HZ3	1.52	0.57
1:D:322:ALA:HA	1:D:528:PRO:HG2	1.85	0.57
1:B:1594:ASP:HA	1:B:1678:PHE:HE2	1.69	0.57
1:A:390:TYR:HB3	1:A:606:VAL:HG21	1.85	0.57
1:A:560:PHE:HE1	1:A:700:VAL:HG11	1.69	0.57
1:C:141:THR:HB	1:C:145:ARG:NH2	2.18	0.57
1:C:551:LEU:HB3	1:C:621:LEU:HB2	1.85	0.57
1:D:104:LYS:NZ	1:D:105:LEU:O	2.37	0.57
1:D:1167:PRO:O	1:D:1171:ILE:HD12	2.04	0.57
1:D:1650:ILE:O	1:D:1845:TYR:OH	2.18	0.57
1:B:322:ALA:HA	1:B:528:PRO:HG2	1.85	0.57
1:C:632:HIS:CD2	1:C:634:LEU:HB2	2.39	0.57
1:C:1051:HIS:CE1	1:C:1053:HIS:H	2.21	0.57
1:D:286:VAL:HB	1:D:335:ASP:HB3	1.87	0.57
1:D:390:TYR:HB3	1:D:606:VAL:HG21	1.85	0.57
1:B:1557:ASN:O	1:B:1561:ILE:HG12	2.04	0.57
1:B:1802:ILE:HD11	1:B:1819:TYR:HB3	1.85	0.57
1:A:104:LYS:NZ	1:A:105:LEU:O	2.37	0.57
1:A:574:VAL:HG22	1:A:635:PHE:CE2	2.40	0.57
1:A:1727:HIS:CE1	1:B:1730:LEU:HD13	2.38	0.57
1:B:124:HIS:CE1	1:B:126:ARG:HA	2.40	0.57
1:B:1587:ARG:CZ	1:B:1596:ARG:HH22	2.17	0.57
1:A:1753:ARG:N	1:A:1823:THR:O	2.35	0.57
1:C:100:PRO:HD3	1:C:547:TYR:CE2	2.39	0.57
1:C:1557:ASN:O	1:C:1561:ILE:HG12	2.04	0.57
1:C:1594:ASP:HA	1:C:1678:PHE:HE2	1.69	0.57
1:D:1557:ASN:O	1:D:1561:ILE:HG12	2.04	0.57
1:D:1587:ARG:CZ	1:D:1596:ARG:HH22	2.17	0.57
1:D:1785:ARG:HH12	1:D:1789:PHE:N	2.03	0.57
1:B:581:ASP:OD2	1:B:583:SER:OG	2.13	0.57
1:B:1700:TYR:HB3	1:B:1733:ALA:HB1	1.86	0.57
1:A:663:GLN:HB2	1:A:668:ARG:HG2	1.86	0.57
1:A:1267:ALA:O	1:A:1271:ARG:HD3	2.05	0.57
1:A:1785:ARG:HH12	1:A:1789:PHE:N	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1793:ARG:NE	1:C:1793:ARG:HA	2.19	0.57
1:C:1802:ILE:HD11	1:C:1819:TYR:HB3	1.85	0.57
1:D:261:ILE:N	1:D:327:PHE:O	2.36	0.57
1:B:331:TYR:CZ	1:B:538:ARG:HB2	2.40	0.57
1:A:331:TYR:CZ	1:A:538:ARG:HB2	2.40	0.57
1:A:1557:ASN:O	1:A:1561:ILE:HG12	2.04	0.57
1:A:1587:ARG:CZ	1:A:1596:ARG:HH22	2.17	0.57
1:C:592:LYS:N	1:C:595:CYS:SG	2.78	0.57
1:D:1598:THR:O	1:D:1602:ASN:ND2	2.36	0.57
1:D:1700:TYR:HB3	1:D:1733:ALA:HB1	1.86	0.57
1:B:286:VAL:HB	1:B:335:ASP:HB3	1.87	0.57
1:B:546:SER:OG	1:B:548:ARG:NH2	2.38	0.57
1:B:663:GLN:HB2	1:B:668:ARG:HG2	1.86	0.57
1:A:124:HIS:CE1	1:A:126:ARG:HA	2.40	0.57
1:A:546:SER:OG	1:A:548:ARG:NH2	2.38	0.57
1:A:911:GLU:OE1	1:A:911:GLU:N	2.28	0.57
1:C:1267:ALA:O	1:C:1271:ARG:HD3	2.05	0.57
1:C:1520:PHE:CZ	1:C:1525:LEU:HD21	2.40	0.57
1:C:1562:LEU:O	1:C:1566:VAL:HG23	2.04	0.57
1:C:1950:ALA:HB1	1:C:1954:LEU:HD12	1.86	0.57
1:D:124:HIS:CE1	1:D:126:ARG:HA	2.40	0.57
1:B:560:PHE:HE1	1:B:700:VAL:HG11	1.69	0.57
1:B:694:LEU:H	1:B:699:TRP:HZ2	1.53	0.57
1:B:1167:PRO:O	1:B:1171:ILE:HD12	2.04	0.57
1:A:693:ALA:HB2	1:A:703:HIS:CE1	2.40	0.57
1:A:1781:GLU:O	1:A:1784:HIS:HB3	2.04	0.57
1:C:1989:LYS:HG3	1:C:1992:ILE:HD11	1.87	0.57
1:D:85:LEU:HD12	1:D:947:LEU:HD23	1.87	0.57
1:D:331:TYR:CZ	1:D:538:ARG:HB2	2.40	0.57
1:D:694:LEU:H	1:D:699:TRP:HZ2	1.53	0.57
1:D:1603:MET:O	1:D:1607:HIS:ND1	2.21	0.57
1:B:85:LEU:HD12	1:B:947:LEU:HD23	1.87	0.57
1:B:223:ARG:NH2	1:B:1397:GLU:OE1	2.38	0.57
1:B:592:LYS:N	1:B:595:CYS:SG	2.78	0.57
1:B:1781:GLU:O	1:B:1784:HIS:HB3	2.04	0.57
1:B:1950:ALA:HB1	1:B:1954:LEU:HD12	1.86	0.57
1:A:122:ILE:HD11	1:A:838:TYR:CD1	2.40	0.56
1:A:1700:TYR:HB3	1:A:1733:ALA:HB1	1.86	0.56
1:A:1793:ARG:NE	1:A:1793:ARG:HA	2.19	0.56
1:C:546:SER:OG	1:C:548:ARG:NH2	2.38	0.56
1:C:1529:LEU:HD13	1:C:1532:ILE:HD12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1568:MET:HA	1:D:1578:LEU:HD11	1.86	0.56
1:D:1781:GLU:O	1:D:1784:HIS:HB3	2.04	0.56
1:B:574:VAL:HG22	1:B:635:PHE:CE2	2.40	0.56
1:B:1451:LEU:HB3	1:B:1459:CYS:HB2	1.86	0.56
1:B:1785:ARG:HH12	1:B:1789:PHE:N	2.03	0.56
1:A:1520:PHE:CZ	1:A:1525:LEU:HD21	2.40	0.56
1:C:122:ILE:HD11	1:C:838:TYR:CD1	2.40	0.56
1:C:574:VAL:HG22	1:C:635:PHE:CE2	2.40	0.56
1:C:693:ALA:HB2	1:C:703:HIS:CE1	2.40	0.56
1:C:917:VAL:O	1:C:924:ARG:NH2	2.25	0.56
1:C:1587:ARG:CZ	1:C:1596:ARG:HH22	2.17	0.56
1:D:305:MET:HG3	1:D:308:LEU:HD12	1.87	0.56
1:D:592:LYS:N	1:D:595:CYS:SG	2.78	0.56
1:D:1451:LEU:HB3	1:D:1459:CYS:HB2	1.86	0.56
1:B:1562:LEU:O	1:B:1566:VAL:HG23	2.04	0.56
1:B:1875:LEU:N	1:B:1895:GLU:O	2.28	0.56
1:A:81:ASP:HB2	1:A:126:ARG:CZ	2.36	0.56
1:A:541:TYR:HE1	1:A:770:GLU:HG3	1.71	0.56
1:A:1529:LEU:HD13	1:A:1532:ILE:HD12	1.88	0.56
1:A:1562:LEU:O	1:A:1566:VAL:HG23	2.04	0.56
1:A:1989:LYS:HG3	1:A:1992:ILE:HD11	1.87	0.56
1:C:124:HIS:CE1	1:C:126:ARG:HA	2.40	0.56
1:C:560:PHE:HE1	1:C:700:VAL:HG11	1.69	0.56
1:C:581:ASP:OD2	1:C:583:SER:OG	2.13	0.56
1:C:1700:TYR:HB3	1:C:1733:ALA:HB1	1.86	0.56
1:D:223:ARG:NH2	1:D:1397:GLU:OE1	2.38	0.56
1:D:574:VAL:HG22	1:D:635:PHE:CE2	2.40	0.56
1:D:1395:THR:O	1:D:1399:ILE:HG13	2.05	0.56
1:B:1013:VAL:O	1:B:1017:VAL:HG23	2.05	0.56
1:B:1267:ALA:O	1:B:1271:ARG:HD3	2.05	0.56
1:B:1395:THR:O	1:B:1399:ILE:HG13	2.05	0.56
1:B:1463:CYS:HA	1:B:1466:LEU:HD12	1.87	0.56
1:B:1520:PHE:CZ	1:B:1525:LEU:HD21	2.40	0.56
1:B:1568:MET:HA	1:B:1578:LEU:HD11	1.86	0.56
1:A:305:MET:HG3	1:A:308:LEU:HD12	1.87	0.56
1:A:1395:THR:O	1:A:1399:ILE:HG13	2.05	0.56
1:C:541:TYR:HE1	1:C:770:GLU:HG3	1.71	0.56
1:C:1877:SER:O	1:C:1892:CYS:N	2.38	0.56
1:D:122:ILE:HD11	1:D:838:TYR:CD1	2.40	0.56
1:B:1989:LYS:HG3	1:B:1992:ILE:HD11	1.87	0.56
1:A:911:GLU:HA	1:A:914:LEU:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:85:LEU:HD12	1:C:947:LEU:HD23	1.87	0.56
1:C:223:ARG:NH2	1:C:1397:GLU:OE1	2.38	0.56
1:C:305:MET:HG3	1:C:308:LEU:HD12	1.87	0.56
1:D:284:TYR:CD2	1:D:291:LYS:HA	2.41	0.56
1:D:1267:ALA:O	1:D:1271:ARG:HD3	2.05	0.56
1:D:1463:CYS:HA	1:D:1466:LEU:HD12	1.87	0.56
1:D:1520:PHE:CZ	1:D:1525:LEU:HD21	2.40	0.56
1:B:693:ALA:HB2	1:B:703:HIS:CE1	2.40	0.56
1:A:223:ARG:NH2	1:A:1397:GLU:OE1	2.38	0.56
1:A:286:VAL:HB	1:A:335:ASP:HB3	1.87	0.56
1:D:546:SER:OG	1:D:548:ARG:NH2	2.38	0.56
1:D:911:GLU:HA	1:D:914:LEU:HB3	1.87	0.56
1:D:1013:VAL:O	1:D:1017:VAL:HG23	2.05	0.56
1:D:1562:LEU:O	1:D:1566:VAL:HG23	2.04	0.56
1:D:1950:ALA:HB1	1:D:1954:LEU:HD12	1.86	0.56
1:A:694:LEU:H	1:A:699:TRP:HZ2	1.53	0.56
1:C:911:GLU:OE1	1:C:911:GLU:N	2.28	0.56
1:C:1395:THR:O	1:C:1399:ILE:HG13	2.05	0.56
1:D:693:ALA:HB2	1:D:703:HIS:CE1	2.40	0.56
1:B:122:ILE:HD11	1:B:838:TYR:CD1	2.40	0.56
1:B:1753:ARG:O	1:B:1822:ILE:HA	2.06	0.56
1:B:1753:ARG:N	1:B:1823:THR:O	2.35	0.56
1:A:227:ARG:NH2	1:A:1394:ASP:OD2	2.39	0.56
1:A:592:LYS:N	1:A:595:CYS:SG	2.78	0.56
1:A:1753:ARG:O	1:A:1822:ILE:HA	2.06	0.56
1:A:1788:GLU:O	1:A:1792:GLU:HG3	2.06	0.56
1:C:81:ASP:HB2	1:C:126:ARG:CZ	2.36	0.56
1:C:104:LYS:NZ	1:C:105:LEU:O	2.37	0.56
1:D:560:PHE:HE1	1:D:700:VAL:HG11	1.69	0.56
1:B:1877:SER:O	1:B:1892:CYS:N	2.38	0.56
1:A:1877:SER:O	1:A:1892:CYS:N	2.38	0.56
1:C:244:VAL:HA	1:C:1046:ARG:CZ	2.36	0.56
1:C:284:TYR:CD2	1:C:291:LYS:HA	2.41	0.56
1:C:1753:ARG:O	1:C:1822:ILE:HA	2.06	0.56
1:C:1963:LEU:O	1:C:1967:HIS:ND1	2.26	0.56
1:D:1877:SER:O	1:D:1892:CYS:N	2.38	0.56
1:A:1627:VAL:HB	1:A:1683:LEU:HD13	1.88	0.56
1:C:227:ARG:NH2	1:C:1394:ASP:OD2	2.39	0.56
1:C:286:VAL:HB	1:C:335:ASP:HB3	1.87	0.56
1:C:1773:GLU:HB2	1:C:1782:ILE:HD12	1.88	0.56
1:C:1781:GLU:O	1:C:1784:HIS:HB3	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1873:LYS:O	1:D:1897:THR:OG1	2.23	0.56
1:B:284:TYR:CD2	1:B:291:LYS:HA	2.41	0.56
1:B:1058:ASN:O	1:B:1107:HIS:ND1	2.37	0.56
1:A:85:LEU:HD12	1:A:947:LEU:HD23	1.87	0.55
1:C:331:TYR:CZ	1:C:538:ARG:HB2	2.40	0.55
1:C:694:LEU:H	1:C:699:TRP:HZ2	1.53	0.55
1:C:1013:VAL:O	1:C:1017:VAL:HG23	2.05	0.55
1:D:1938:VAL:HA	1:D:2010:LEU:HD22	1.88	0.55
1:B:305:MET:HG3	1:B:308:LEU:HD12	1.87	0.55
1:B:1122:GLU:CD	1:B:1123:PRO:HD2	2.32	0.55
1:B:1525:LEU:O	1:B:1528:SER:OG	2.15	0.55
1:B:1938:VAL:HA	1:B:2010:LEU:HD22	1.88	0.55
1:A:244:VAL:HA	1:A:1046:ARG:CZ	2.36	0.55
1:A:574:VAL:HB	1:A:602:ALA:HB3	1.87	0.55
1:A:1773:GLU:HB2	1:A:1782:ILE:HD12	1.88	0.55
1:C:404:ILE:HG23	1:C:452:ALA:HB3	1.88	0.55
1:C:574:VAL:HB	1:C:602:ALA:HB3	1.87	0.55
1:C:911:GLU:HA	1:C:914:LEU:HB3	1.87	0.55
1:C:1788:GLU:O	1:C:1792:GLU:HG3	2.06	0.55
1:D:227:ARG:NH2	1:D:1394:ASP:OD2	2.39	0.55
1:D:244:VAL:HA	1:D:1046:ARG:CZ	2.36	0.55
1:B:227:ARG:NH2	1:B:1394:ASP:OD2	2.39	0.55
1:B:244:VAL:HA	1:B:1046:ARG:CZ	2.36	0.55
1:B:1598:THR:O	1:B:1602:ASN:ND2	2.36	0.55
1:B:1773:GLU:HB2	1:B:1782:ILE:HD12	1.89	0.55
1:C:1058:ASN:O	1:C:1107:HIS:ND1	2.37	0.55
1:C:2005:ARG:HD2	1:C:2009:ARG:NH1	2.22	0.55
1:D:1122:GLU:CD	1:D:1123:PRO:HD2	2.32	0.55
1:D:1714:LEU:HB2	1:D:1723:LEU:HD21	1.89	0.55
1:B:1164:LEU:HB2	1:B:1165:TYR:CE1	2.42	0.55
1:A:699:TRP:HB3	1:A:703:HIS:H	1.72	0.55
1:C:1846:GLY:HA2	1:C:1881:ALA:HB1	1.89	0.55
1:C:2005:ARG:HD2	1:C:2009:ARG:HH12	1.71	0.55
1:D:81:ASP:HB2	1:D:126:ARG:CZ	2.36	0.55
1:D:632:HIS:CD2	1:D:658:TRP:HB2	2.42	0.55
1:D:1525:LEU:O	1:D:1528:SER:OG	2.15	0.55
1:D:1627:VAL:HB	1:D:1683:LEU:HD13	1.88	0.55
1:D:1753:ARG:O	1:D:1822:ILE:HA	2.06	0.55
1:B:81:ASP:HB2	1:B:126:ARG:CZ	2.36	0.55
1:B:466:ARG:HH12	1:B:605:PRO:HG2	1.71	0.55
1:B:541:TYR:HE1	1:B:770:GLU:HG3	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1627:VAL:HB	1:B:1683:LEU:HD13	1.88	0.55
1:B:1846:GLY:HA2	1:B:1881:ALA:HB1	1.89	0.55
1:B:2005:ARG:HD2	1:B:2009:ARG:NH1	2.22	0.55
1:A:928:LEU:HD13	1:A:978:GLU:HG2	1.89	0.55
1:A:2005:ARG:HD2	1:A:2009:ARG:HH12	1.71	0.55
1:C:699:TRP:HB3	1:C:703:HIS:H	1.72	0.55
1:C:1607:HIS:HA	1:C:1610:LEU:HD12	1.89	0.55
1:C:1758:GLY:N	1:C:1765:ASP:OD1	2.30	0.55
1:D:699:TRP:HB3	1:D:703:HIS:H	1.72	0.55
1:D:1436:GLY:O	1:D:1439:THR:HB	2.07	0.55
1:D:1989:LYS:HG3	1:D:1992:ILE:HD11	1.87	0.55
1:B:632:HIS:CD2	1:B:658:TRP:HB2	2.42	0.55
1:B:656:PHE:O	1:B:677:SER:N	2.40	0.55
1:B:911:GLU:HA	1:B:914:LEU:HB3	1.87	0.55
1:B:1522:GLU:HG3	1:B:1562:LEU:HD21	1.88	0.55
1:B:1714:LEU:HB2	1:B:1723:LEU:HD21	1.89	0.55
1:A:467:LEU:HD21	1:A:475:PHE:HD2	1.72	0.55
1:A:656:PHE:O	1:A:677:SER:N	2.40	0.55
1:A:1013:VAL:O	1:A:1017:VAL:HG23	2.05	0.55
1:A:1566:VAL:O	1:A:1569:LYS:N	2.40	0.55
1:A:1950:ALA:HB1	1:A:1954:LEU:HD12	1.86	0.55
1:A:1963:LEU:O	1:A:1967:HIS:ND1	2.26	0.55
1:C:92:CYS:SG	1:C:94:THR:OG1	2.65	0.55
1:C:1748:PHE:O	1:C:1775:SER:HB3	2.07	0.55
1:D:466:ARG:HH12	1:D:605:PRO:HG2	1.71	0.55
1:D:1529:LEU:HD13	1:D:1532:ILE:HD12	1.87	0.55
1:D:1773:GLU:HB2	1:D:1782:ILE:HD12	1.88	0.55
1:B:404:ILE:HG23	1:B:452:ALA:HB3	1.88	0.55
1:B:541:TYR:CE1	1:B:770:GLU:HG3	2.42	0.55
1:B:574:VAL:HB	1:B:602:ALA:HB3	1.87	0.55
1:B:2005:ARG:HD2	1:B:2009:ARG:HH12	1.71	0.55
1:A:541:TYR:CE1	1:A:770:GLU:HG3	2.42	0.55
1:A:1463:CYS:HA	1:A:1466:LEU:HD12	1.87	0.55
1:C:570:LEU:HD13	1:C:637:PHE:HD1	1.72	0.55
1:C:1463:CYS:HA	1:C:1466:LEU:HD12	1.87	0.55
1:C:1575:PRO:O	1:C:1579:ILE:HG12	2.07	0.55
1:C:1627:VAL:HB	1:C:1683:LEU:HD13	1.87	0.55
1:C:1725:ALA:O	1:C:1729:LYS:HG3	2.07	0.55
1:C:1785:ARG:HH12	1:C:1789:PHE:N	2.03	0.55
1:C:1856:PHE:CE1	1:C:1872:ARG:HB2	2.39	0.55
1:D:484:SER:HB2	1:B:1370:THR:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:553:VAL:HG12	1:D:555:PRO:HD3	1.89	0.55
1:D:1164:LEU:HB2	1:D:1165:TYR:CE1	2.42	0.55
1:D:1505:GLN:HA	1:D:1508:MET:HE3	1.89	0.55
1:D:1748:PHE:O	1:D:1775:SER:HB3	2.07	0.55
1:B:699:TRP:HB3	1:B:703:HIS:H	1.72	0.55
1:B:1505:GLN:HA	1:B:1508:MET:HE3	1.89	0.55
1:B:1575:PRO:O	1:B:1579:ILE:HG12	2.07	0.55
1:B:1788:GLU:O	1:B:1792:GLU:HG3	2.06	0.55
1:B:1873:LYS:O	1:B:1897:THR:OG1	2.23	0.55
1:C:216:ASP:OD1	1:C:217:ARG:N	2.40	0.55
1:C:1505:GLN:HA	1:C:1508:MET:HE3	1.89	0.55
1:D:467:LEU:HD21	1:D:475:PHE:HD2	1.72	0.55
1:D:541:TYR:HE1	1:D:770:GLU:HG3	1.71	0.55
1:D:1566:VAL:O	1:D:1569:LYS:N	2.40	0.55
1:D:1676:LYS:O	1:D:1679:THR:OG1	2.22	0.55
1:B:553:VAL:HG12	1:B:555:PRO:HD3	1.89	0.55
1:B:570:LEU:HD13	1:B:637:PHE:HD1	1.72	0.55
1:B:1758:GLY:N	1:B:1765:ASP:OD1	2.30	0.55
1:A:404:ILE:HG23	1:A:452:ALA:HB3	1.88	0.55
1:A:917:VAL:O	1:A:924:ARG:NH2	2.25	0.55
1:A:1164:LEU:HB2	1:A:1165:TYR:CE1	2.42	0.55
1:A:1522:GLU:HG3	1:A:1562:LEU:HD21	1.88	0.55
1:A:1575:PRO:O	1:A:1579:ILE:HG12	2.07	0.55
1:D:216:ASP:OD1	1:D:217:ARG:N	2.40	0.55
1:D:404:ILE:HG23	1:D:452:ALA:HB3	1.88	0.55
1:D:656:PHE:O	1:D:677:SER:N	2.40	0.55
1:B:1159:ALA:O	1:B:1163:GLU:HG3	2.07	0.55
1:B:1436:GLY:O	1:B:1439:THR:HB	2.07	0.55
1:B:1529:LEU:HD13	1:B:1532:ILE:HD12	1.88	0.55
1:C:124:HIS:NE2	1:C:126:ARG:HA	2.22	0.55
1:C:656:PHE:O	1:C:677:SER:N	2.40	0.55
1:C:928:LEU:HD13	1:C:978:GLU:HG2	1.89	0.55
1:C:1436:GLY:O	1:C:1439:THR:HB	2.07	0.55
1:D:92:CYS:SG	1:D:94:THR:OG1	2.65	0.55
1:D:971:LEU:O	1:D:975:VAL:HG23	2.07	0.55
1:D:1129:PHE:HA	1:D:1132:HIS:ND1	2.22	0.55
1:D:1960:ASP:HB3	1:D:1963:LEU:HG	1.88	0.55
1:B:124:HIS:NE2	1:B:126:ARG:HA	2.22	0.55
1:A:284:TYR:CD2	1:A:291:LYS:HA	2.41	0.54
1:A:2005:ARG:HD2	1:A:2009:ARG:NH1	2.22	0.54
1:C:1122:GLU:CD	1:C:1123:PRO:HD2	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1159:ALA:O	1:C:1163:GLU:HG3	2.07	0.54
1:D:1522:GLU:HG3	1:D:1562:LEU:HD21	1.88	0.54
1:D:1756:PHE:HB3	1:D:1761:PHE:CD2	2.42	0.54
1:D:1758:GLY:N	1:D:1765:ASP:OD1	2.30	0.54
1:D:2005:ARG:HD2	1:D:2009:ARG:NH1	2.22	0.54
1:B:1403:VAL:HG21	1:B:1412:VAL:HG11	1.89	0.54
1:B:1809:ASP:H	1:B:1812:LYS:HZ3	1.54	0.54
1:A:1159:ALA:O	1:A:1163:GLU:HG3	2.07	0.54
1:A:1707:TYR:HA	1:A:1710:LEU:HB3	1.89	0.54
1:A:1960:ASP:HB3	1:A:1963:LEU:HG	1.88	0.54
1:C:1756:PHE:HB3	1:C:1761:PHE:CD2	2.42	0.54
1:D:1090:ASP:HB3	1:D:1093:VAL:HG22	1.89	0.54
1:D:1159:ALA:O	1:D:1163:GLU:HG3	2.07	0.54
1:D:1846:GLY:HA2	1:D:1881:ALA:HB1	1.89	0.54
1:B:231:LEU:HB2	1:B:1262:LYS:NZ	2.19	0.54
1:B:971:LEU:O	1:B:975:VAL:HG23	2.08	0.54
1:B:1129:PHE:HA	1:B:1132:HIS:ND1	2.22	0.54
1:A:1505:GLN:HA	1:A:1508:MET:HE3	1.89	0.54
1:A:1607:HIS:HA	1:A:1610:LEU:HD12	1.89	0.54
1:A:1748:PHE:O	1:A:1775:SER:HB3	2.07	0.54
1:A:1846:GLY:HA2	1:A:1881:ALA:HB1	1.89	0.54
1:C:466:ARG:HH12	1:C:605:PRO:HG2	1.71	0.54
1:C:986:ASP:OD1	1:C:986:ASP:N	2.39	0.54
1:C:1598:THR:O	1:C:1602:ASN:ND2	2.36	0.54
1:D:1575:PRO:O	1:D:1579:ILE:HG12	2.07	0.54
1:D:1725:ALA:O	1:D:1729:LYS:HG3	2.07	0.54
1:D:1788:GLU:O	1:D:1792:GLU:HG3	2.06	0.54
1:D:2005:ARG:HD2	1:D:2009:ARG:HH12	1.71	0.54
1:B:216:ASP:OD1	1:B:217:ARG:N	2.40	0.54
1:B:1960:ASP:HB3	1:B:1963:LEU:HG	1.88	0.54
1:A:784:VAL:O	1:A:787:VAL:N	2.40	0.54
1:C:284:TYR:HB3	1:C:473:PHE:CE1	2.43	0.54
1:C:541:TYR:CE1	1:C:770:GLU:HG3	2.42	0.54
1:C:1522:GLU:HG3	1:C:1562:LEU:HD21	1.88	0.54
1:C:1714:LEU:HB2	1:C:1723:LEU:HD21	1.89	0.54
1:D:574:VAL:HB	1:D:602:ALA:HB3	1.87	0.54
1:D:1403:VAL:HG21	1:D:1412:VAL:HG11	1.89	0.54
1:B:1566:VAL:O	1:B:1569:LYS:N	2.40	0.54
1:B:1756:PHE:HB3	1:B:1761:PHE:CD2	2.43	0.54
1:A:284:TYR:HB3	1:A:473:PHE:CE1	2.43	0.54
1:A:1030:SER:HB2	1:D:766:LEU:HD11	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1122:GLU:CD	1:A:1123:PRO:HD2	2.32	0.54
1:A:1146:HIS:NE2	1:A:1165:TYR:OH	2.40	0.54
1:A:1798:VAL:O	1:A:1818:ALA:N	2.28	0.54
1:C:632:HIS:CD2	1:C:658:TRP:HB2	2.42	0.54
1:C:1960:ASP:HB3	1:C:1963:LEU:HG	1.88	0.54
1:D:784:VAL:O	1:D:787:VAL:N	2.40	0.54
1:D:1005:LEU:HG	1:D:1013:VAL:HG11	1.90	0.54
1:B:92:CYS:SG	1:B:94:THR:OG1	2.65	0.54
1:B:784:VAL:O	1:B:788:ILE:HD12	2.08	0.54
1:B:1005:LEU:HG	1:B:1013:VAL:HG11	1.89	0.54
1:A:216:ASP:OD1	1:A:217:ARG:N	2.40	0.54
1:A:466:ARG:HH12	1:A:605:PRO:HG2	1.71	0.54
1:A:632:HIS:CD2	1:A:658:TRP:HB2	2.42	0.54
1:A:1490:ARG:NE	1:A:1494:GLU:OE2	2.22	0.54
1:C:467:LEU:HD21	1:C:475:PHE:HD2	1.72	0.54
1:C:1566:VAL:O	1:C:1569:LYS:N	2.40	0.54
1:D:541:TYR:CE1	1:D:770:GLU:HG3	2.42	0.54
1:D:1856:PHE:CE1	1:D:1872:ARG:HB2	2.39	0.54
1:B:928:LEU:HD13	1:B:978:GLU:HG2	1.89	0.54
1:B:1090:ASP:HB3	1:B:1093:VAL:HG22	1.89	0.54
1:B:1748:PHE:O	1:B:1775:SER:HB3	2.07	0.54
1:A:1725:ALA:O	1:A:1729:LYS:HG3	2.07	0.54
1:A:1756:PHE:HB3	1:A:1761:PHE:CD2	2.43	0.54
1:C:88:GLN:HG2	1:C:120:TRP:HD1	1.73	0.54
1:C:1164:LEU:HB2	1:C:1165:TYR:CE1	2.42	0.54
1:D:124:HIS:NE2	1:D:126:ARG:HA	2.22	0.54
1:D:1433:LEU:O	1:D:1437:LEU:HG	2.08	0.54
1:B:1436:GLY:C	1:B:1440:GLN:HE22	2.15	0.54
1:B:1725:ALA:O	1:B:1729:LYS:HG3	2.07	0.54
1:A:553:VAL:HG12	1:A:555:PRO:HD3	1.89	0.54
1:A:570:LEU:HD13	1:A:637:PHE:HD1	1.72	0.54
1:A:1436:GLY:C	1:A:1440:GLN:HE22	2.15	0.54
1:A:1856:PHE:CE1	1:A:1872:ARG:HB2	2.39	0.54
1:A:1938:VAL:HA	1:A:2010:LEU:HD22	1.88	0.54
1:B:90:ARG:NH1	1:B:115:MET:O	2.41	0.54
1:B:467:LEU:HD21	1:B:475:PHE:HD2	1.72	0.54
1:B:783:LEU:O	1:B:787:VAL:HG23	2.08	0.54
1:B:1146:HIS:NE2	1:B:1165:TYR:OH	2.40	0.54
1:B:1493:PHE:O	1:B:1497:HIS:HA	2.08	0.54
1:B:1607:HIS:HA	1:B:1610:LEU:HD12	1.89	0.54
1:A:784:VAL:O	1:A:788:ILE:HD12	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1129:PHE:HA	1:A:1132:HIS:ND1	2.22	0.54
1:A:1436:GLY:O	1:A:1439:THR:HB	2.07	0.54
1:A:1714:LEU:HB2	1:A:1723:LEU:HD21	1.89	0.54
1:C:784:VAL:O	1:C:787:VAL:N	2.40	0.54
1:C:1044:PHE:O	1:C:1048:LEU:HD23	2.08	0.54
1:C:1090:ASP:HB3	1:C:1093:VAL:HG22	1.89	0.54
1:C:1129:PHE:HA	1:C:1132:HIS:ND1	2.22	0.54
1:C:1146:HIS:NE2	1:C:1165:TYR:OH	2.40	0.54
1:C:1403:VAL:HG21	1:C:1412:VAL:HG11	1.89	0.54
1:D:88:GLN:HG2	1:D:120:TRP:HD1	1.73	0.54
1:D:761:LEU:HA	1:D:764:LEU:HD23	1.90	0.54
1:D:1058:ASN:O	1:D:1107:HIS:ND1	2.37	0.54
1:D:1420:VAL:O	1:D:1423:SER:OG	2.10	0.54
1:B:284:TYR:HB3	1:B:473:PHE:CE1	2.43	0.54
1:B:911:GLU:OE1	1:B:911:GLU:N	2.28	0.54
1:A:757:LEU:O	1:A:760:SER:OG	2.23	0.54
1:A:1005:LEU:HG	1:A:1013:VAL:HG11	1.90	0.54
1:A:1052:GLU:HG3	1:A:1053:HIS:N	2.23	0.54
1:A:1493:PHE:O	1:A:1497:HIS:HA	2.08	0.54
1:A:1504:MET:O	1:A:1508:MET:HG3	2.08	0.54
1:A:1724:ALA:O	1:B:1731:GLN:OE1	2.26	0.54
1:A:1828:TYR:HB3	1:A:1849:THR:HG22	1.91	0.54
1:C:1005:LEU:HG	1:C:1013:VAL:HG11	1.90	0.54
1:C:1549:GLU:H	1:C:1549:GLU:CD	2.16	0.54
1:D:467:LEU:HD11	1:D:475:PHE:HE2	1.73	0.54
1:D:783:LEU:O	1:D:787:VAL:HG23	2.08	0.54
1:A:92:CYS:SG	1:A:94:THR:OG1	2.65	0.53
1:A:248:SER:H	1:A:826:ARG:HD3	1.73	0.53
1:C:248:SER:H	1:C:826:ARG:HD3	1.73	0.53
1:C:1707:TYR:HA	1:C:1710:LEU:HB3	1.89	0.53
1:D:284:TYR:HB3	1:D:473:PHE:CE1	2.43	0.53
1:D:721:ASP:OD1	1:D:724:LEU:N	2.28	0.53
1:D:1052:GLU:HG3	1:D:1053:HIS:N	2.23	0.53
1:B:1533:LEU:HG	1:B:1555:MET:SD	2.49	0.53
1:B:1989:LYS:N	1:B:2000:HIS:HE1	2.07	0.53
1:A:337:PHE:CE1	1:A:400:HIS:HB2	2.43	0.53
1:A:971:LEU:O	1:A:975:VAL:HG23	2.07	0.53
1:A:1989:LYS:N	1:A:2000:HIS:HE1	2.07	0.53
1:C:1525:LEU:O	1:C:1528:SER:OG	2.15	0.53
1:C:1533:LEU:HG	1:C:1555:MET:SD	2.49	0.53
1:C:1728:GLY:N	1:D:1731:GLN:OE1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1749:GLY:HA2	1:C:1775:SER:N	2.24	0.53
1:C:1938:VAL:HA	1:C:2010:LEU:HD22	1.88	0.53
1:D:928:LEU:HD13	1:D:978:GLU:HG2	1.89	0.53
1:D:1989:LYS:N	1:D:2000:HIS:HE1	2.07	0.53
1:B:88:GLN:HG2	1:B:120:TRP:HD1	1.73	0.53
1:B:1052:GLU:HG3	1:B:1053:HIS:N	2.23	0.53
1:B:1856:PHE:CE1	1:B:1872:ARG:HB2	2.39	0.53
1:A:1044:PHE:O	1:A:1048:LEU:HD23	2.08	0.53
1:C:90:ARG:NH1	1:C:115:MET:O	2.41	0.53
1:C:1433:LEU:O	1:C:1437:LEU:HG	2.08	0.53
1:D:570:LEU:HD13	1:D:637:PHE:HD1	1.72	0.53
1:D:1490:ARG:NE	1:D:1494:GLU:OE2	2.22	0.53
1:D:1753:ARG:N	1:D:1823:THR:O	2.35	0.53
1:B:288:GLU:HG2	1:B:290:LYS:HE2	1.90	0.53
1:B:337:PHE:CE1	1:B:400:HIS:HB2	2.43	0.53
1:B:467:LEU:HD11	1:B:475:PHE:HE2	1.73	0.53
1:B:761:LEU:HA	1:B:764:LEU:HD23	1.90	0.53
1:B:1044:PHE:O	1:B:1048:LEU:HD23	2.08	0.53
1:B:1749:GLY:HA2	1:B:1775:SER:N	2.24	0.53
1:A:90:ARG:NH1	1:A:115:MET:O	2.41	0.53
1:A:124:HIS:NE2	1:A:126:ARG:HA	2.22	0.53
1:A:405:VAL:HG22	1:A:449:PHE:CG	2.44	0.53
1:A:467:LEU:HD11	1:A:475:PHE:HE2	1.73	0.53
1:A:1090:ASP:HB3	1:A:1093:VAL:HG22	1.89	0.53
1:A:1648:GLN:OE1	1:A:1654:VAL:HG12	2.09	0.53
1:C:231:LEU:HB2	1:C:1262:LYS:NZ	2.19	0.53
1:C:577:MET:O	1:C:631:HIS:HA	2.08	0.53
1:C:783:LEU:O	1:C:787:VAL:HG23	2.08	0.53
1:C:1648:GLN:OE1	1:C:1654:VAL:HG12	2.09	0.53
1:D:911:GLU:OE1	1:D:911:GLU:N	2.28	0.53
1:D:943:ALA:O	1:D:946:LEU:N	2.42	0.53
1:D:1493:PHE:O	1:D:1497:HIS:HA	2.08	0.53
1:D:1607:HIS:HA	1:D:1610:LEU:HD12	1.89	0.53
1:D:1707:TYR:HA	1:D:1710:LEU:HB3	1.89	0.53
1:B:943:ALA:O	1:B:946:LEU:N	2.42	0.53
1:A:88:GLN:HG2	1:A:120:TRP:HD1	1.73	0.53
1:A:1403:VAL:HG21	1:A:1412:VAL:HG11	1.89	0.53
1:A:1722:LYS:O	1:A:1726:VAL:HG23	2.09	0.53
1:C:337:PHE:CE1	1:C:400:HIS:HB2	2.43	0.53
1:C:784:VAL:O	1:C:788:ILE:HD12	2.08	0.53
1:C:1828:TYR:HB3	1:C:1849:THR:HG22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:405:VAL:HG22	1:D:449:PHE:CG	2.44	0.53
1:D:577:MET:O	1:D:631:HIS:HA	2.09	0.53
1:D:917:VAL:O	1:D:924:ARG:NH2	2.24	0.53
1:D:1146:HIS:NE2	1:D:1165:TYR:OH	2.40	0.53
1:B:784:VAL:O	1:B:787:VAL:N	2.40	0.53
1:A:1433:LEU:O	1:A:1437:LEU:HG	2.08	0.53
1:C:971:LEU:O	1:C:975:VAL:HG23	2.08	0.53
1:C:1722:LYS:O	1:C:1726:VAL:HG23	2.09	0.53
1:D:90:ARG:NH1	1:D:115:MET:O	2.41	0.53
1:D:784:VAL:O	1:D:788:ILE:HD12	2.08	0.53
1:D:1436:GLY:C	1:D:1440:GLN:HE22	2.15	0.53
1:B:1433:LEU:O	1:B:1437:LEU:HG	2.08	0.53
1:C:553:VAL:HG12	1:C:555:PRO:HD3	1.89	0.53
1:C:977:LEU:HD11	1:B:802:ARG:HH12	1.73	0.53
1:C:1052:GLU:HG3	1:C:1053:HIS:N	2.23	0.53
1:D:248:SER:H	1:D:826:ARG:HD3	1.73	0.53
1:D:1504:MET:O	1:D:1508:MET:HG3	2.08	0.53
1:B:917:VAL:O	1:B:924:ARG:NH2	2.25	0.53
1:A:761:LEU:HA	1:A:764:LEU:HD23	1.90	0.53
1:A:783:LEU:O	1:A:787:VAL:HG23	2.08	0.53
1:A:1758:GLY:N	1:A:1765:ASP:OD1	2.30	0.53
1:C:766:LEU:HD11	1:B:1030:SER:HB2	1.90	0.53
1:C:943:ALA:O	1:C:946:LEU:N	2.42	0.53
1:C:1701:GLU:HG3	1:C:1841:PHE:CD2	2.44	0.53
1:C:1729:LYS:HA	1:C:1732:GLU:CD	2.34	0.53
1:C:1989:LYS:N	1:C:2000:HIS:HE1	2.07	0.53
1:D:231:LEU:HB2	1:D:1262:LYS:NZ	2.19	0.53
1:D:283:LEU:HD21	1:D:401:LEU:HD11	1.91	0.53
1:D:1533:LEU:HG	1:D:1555:MET:SD	2.48	0.53
1:D:1749:GLY:HA2	1:D:1775:SER:N	2.24	0.53
1:D:1828:TYR:HB3	1:D:1849:THR:HG22	1.91	0.53
1:B:577:MET:O	1:B:631:HIS:HA	2.08	0.53
1:A:288:GLU:HG2	1:A:290:LYS:HE2	1.90	0.53
1:A:577:MET:O	1:A:631:HIS:HA	2.08	0.53
1:C:467:LEU:HD11	1:C:475:PHE:HE2	1.73	0.53
1:D:77:GLU:OE1	1:D:77:GLU:N	2.40	0.53
1:D:337:PHE:CE1	1:D:400:HIS:HB2	2.43	0.53
1:D:1606:LYS:O	1:D:1610:LEU:HG	2.09	0.53
1:B:77:GLU:OE1	1:B:77:GLU:N	2.40	0.53
1:B:757:LEU:O	1:B:760:SER:OG	2.23	0.53
1:B:1707:TYR:HA	1:B:1710:LEU:HB3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1701:GLU:HG3	1:A:1841:PHE:CD2	2.44	0.53
1:C:721:ASP:HB3	1:C:724:LEU:HB2	1.91	0.53
1:C:1097:PHE:CE2	1:C:1166:LEU:HD12	2.44	0.53
1:D:1044:PHE:O	1:D:1048:LEU:HD23	2.08	0.53
1:D:1498:ASN:O	1:D:1501:ARG:NH2	2.43	0.53
1:D:1701:GLU:HG3	1:D:1841:PHE:CD2	2.44	0.53
1:B:299:ASP:O	1:B:323:ARG:NE	2.42	0.53
1:B:1701:GLU:HG3	1:B:1841:PHE:CD2	2.44	0.53
1:B:1722:LYS:O	1:B:1726:VAL:HG23	2.09	0.53
1:B:1903:GLU:HG3	1:B:1966:HIS:HE2	1.74	0.53
1:A:155:GLU:OE1	1:A:1473:ARG:HB2	2.10	0.52
1:A:575:GLN:HB3	1:A:634:LEU:O	2.10	0.52
1:A:1549:GLU:H	1:A:1549:GLU:CD	2.16	0.52
1:A:1581:LEU:O	1:A:1585:ILE:HG13	2.09	0.52
1:A:1749:GLY:HA2	1:A:1775:SER:N	2.24	0.52
1:A:1873:LYS:O	1:A:1897:THR:OG1	2.23	0.52
1:C:155:GLU:OE1	1:C:1473:ARG:HB2	2.09	0.52
1:C:288:GLU:HG2	1:C:290:LYS:HE2	1.90	0.52
1:C:1504:MET:O	1:C:1508:MET:HG3	2.08	0.52
1:C:1786:LEU:HD21	1:C:1820:ILE:HD12	1.91	0.52
1:D:1251:ARG:NH2	1:D:1294:ALA:O	2.42	0.52
1:B:155:GLU:OE1	1:B:1473:ARG:HB2	2.10	0.52
1:B:664:HIS:ND1	1:B:744:LYS:HA	2.24	0.52
1:B:1251:ARG:NH2	1:B:1294:ALA:O	2.42	0.52
1:B:1498:ASN:O	1:B:1501:ARG:NH2	2.43	0.52
1:A:674:LEU:HD22	1:A:690:PRO:HG2	1.91	0.52
1:A:1786:LEU:HD21	1:A:1820:ILE:HD12	1.91	0.52
1:A:1937:SER:HB3	1:A:1977:PHE:HE1	1.74	0.52
1:C:1436:GLY:C	1:C:1440:GLN:HE22	2.15	0.52
1:C:1493:PHE:O	1:C:1497:HIS:HA	2.08	0.52
1:D:155:GLU:OE1	1:D:1473:ARG:HB2	2.10	0.52
1:D:554:TYR:C	1:D:709:VAL:HG23	2.34	0.52
1:B:1595:LEU:O	1:B:1598:THR:OG1	2.26	0.52
1:B:1942:VAL:HG12	1:B:1944:GLN:H	1.74	0.52
1:A:554:TYR:C	1:A:709:VAL:HG23	2.34	0.52
1:A:943:ALA:O	1:A:946:LEU:N	2.42	0.52
1:A:986:ASP:OD1	1:A:986:ASP:N	2.39	0.52
1:A:1533:LEU:HG	1:A:1555:MET:SD	2.48	0.52
1:A:1806:ASN:O	1:A:1821:GLN:NE2	2.40	0.52
1:A:1848:ARG:NE	1:A:1881:ALA:HB2	2.25	0.52
1:C:575:GLN:HB3	1:C:634:LEU:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1942:VAL:HG12	1:C:1944:GLN:H	1.74	0.52
1:D:1474:ILE:O	1:D:1478:ARG:HG3	2.10	0.52
1:D:1786:LEU:HD21	1:D:1820:ILE:HD12	1.91	0.52
1:B:1606:LYS:O	1:B:1610:LEU:HG	2.09	0.52
1:B:1828:TYR:HB3	1:B:1849:THR:HG22	1.91	0.52
1:A:299:ASP:O	1:A:323:ARG:NE	2.42	0.52
1:A:1097:PHE:CE2	1:A:1166:LEU:HD12	2.44	0.52
1:A:1498:ASN:O	1:A:1501:ARG:NH2	2.43	0.52
1:C:554:TYR:C	1:C:709:VAL:HG23	2.34	0.52
1:C:664:HIS:ND1	1:C:744:LYS:HA	2.24	0.52
1:C:674:LEU:HD22	1:C:690:PRO:HG2	1.91	0.52
1:C:1581:LEU:O	1:C:1585:ILE:HG13	2.09	0.52
1:C:1595:LEU:O	1:C:1598:THR:OG1	2.26	0.52
1:D:1722:LYS:O	1:D:1726:VAL:HG23	2.09	0.52
1:D:1729:LYS:HA	1:D:1732:GLU:CD	2.34	0.52
1:B:248:SER:H	1:B:826:ARG:HD3	1.73	0.52
1:B:575:GLN:HB3	1:B:634:LEU:O	2.10	0.52
1:B:1097:PHE:CE2	1:B:1166:LEU:HD12	2.45	0.52
1:B:1393:LEU:HA	1:B:1396:LEU:HD12	1.91	0.52
1:B:1491:GLN:O	1:B:1495:ILE:HG12	2.10	0.52
1:A:283:LEU:HD21	1:A:401:LEU:HD11	1.91	0.52
1:A:721:ASP:HB3	1:A:724:LEU:HB2	1.91	0.52
1:A:1729:LYS:HA	1:A:1732:GLU:CD	2.34	0.52
1:A:1829:PHE:HB2	1:A:1834:LEU:HD12	1.92	0.52
1:C:405:VAL:HG22	1:C:449:PHE:CG	2.44	0.52
1:C:1491:GLN:O	1:C:1495:ILE:HG12	2.10	0.52
1:D:288:GLU:HG2	1:D:290:LYS:HE2	1.90	0.52
1:D:1798:VAL:O	1:D:1818:ALA:N	2.28	0.52
1:D:1942:VAL:HG12	1:D:1944:GLN:H	1.74	0.52
1:B:297:TYR:C	1:B:593:SER:HB3	2.35	0.52
1:B:1392:VAL:O	1:B:1396:LEU:HG	2.10	0.52
1:B:1474:ILE:O	1:B:1478:ARG:HG3	2.10	0.52
1:B:1504:MET:O	1:B:1508:MET:HG3	2.08	0.52
1:A:143:ARG:HA	1:A:146:GLN:HB2	1.91	0.52
1:C:1251:ARG:NH2	1:C:1294:ALA:O	2.42	0.52
1:C:1392:VAL:O	1:C:1396:LEU:HG	2.10	0.52
1:C:1937:SER:HB3	1:C:1977:PHE:HE1	1.74	0.52
1:D:1392:VAL:O	1:D:1396:LEU:HG	2.10	0.52
1:D:1549:GLU:H	1:D:1549:GLU:CD	2.16	0.52
1:D:1648:GLN:OE1	1:D:1654:VAL:HG12	2.09	0.52
1:B:1786:LEU:HD21	1:B:1820:ILE:HD12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1806:ASN:O	1:B:1821:GLN:NE2	2.40	0.52
1:C:761:LEU:HA	1:C:764:LEU:HD23	1.90	0.52
1:C:1498:ASN:O	1:C:1501:ARG:NH2	2.43	0.52
1:D:1403:VAL:HG12	1:D:1409:ARG:HG3	1.92	0.52
1:B:283:LEU:HD21	1:B:401:LEU:HD11	1.91	0.52
1:B:405:VAL:HG22	1:B:449:PHE:CG	2.43	0.52
1:B:554:TYR:C	1:B:709:VAL:HG23	2.34	0.52
1:B:1676:LYS:HG3	1:B:1677:HIS:N	2.25	0.52
1:A:898:GLU:O	1:A:902:ILE:HG12	2.10	0.52
1:C:299:ASP:O	1:C:323:ARG:NE	2.42	0.52
1:C:496:LEU:HD12	1:C:497:LYS:H	1.75	0.52
1:C:898:GLU:O	1:C:902:ILE:HG12	2.10	0.52
1:C:1901:PRO:HA	1:C:1904:VAL:HB	1.92	0.52
1:D:297:TYR:C	1:D:593:SER:HB3	2.35	0.52
1:D:299:ASP:O	1:D:323:ARG:NE	2.42	0.52
1:D:405:VAL:HG21	1:D:446:PHE:HA	1.92	0.52
1:D:575:GLN:HB3	1:D:634:LEU:O	2.10	0.52
1:D:721:ASP:HB3	1:D:724:LEU:HB2	1.91	0.52
1:D:1058:ASN:OD1	1:D:1109:LEU:N	2.43	0.52
1:D:1491:GLN:O	1:D:1495:ILE:HG12	2.10	0.52
1:D:1676:LYS:HG3	1:D:1677:HIS:N	2.25	0.52
1:D:1937:SER:HB3	1:D:1977:PHE:HE1	1.74	0.52
1:B:466:ARG:NH2	1:B:605:PRO:HB2	2.15	0.52
1:B:1648:GLN:OE1	1:B:1654:VAL:HG12	2.09	0.52
1:B:1729:LYS:HA	1:B:1732:GLU:CD	2.34	0.52
1:A:496:LEU:HD12	1:A:497:LYS:H	1.75	0.52
1:A:1171:ILE:O	1:A:1175:THR:HG23	2.10	0.52
1:A:1393:LEU:HA	1:A:1396:LEU:HD12	1.91	0.52
1:A:1520:PHE:CZ	1:A:1525:LEU:HD11	2.45	0.52
1:C:212:PRO:HB3	1:C:1446:LYS:CE	2.40	0.52
1:C:1474:ILE:O	1:C:1478:ARG:HG3	2.10	0.52
1:C:1669:GLU:HB2	1:C:1672:PHE:CE2	2.44	0.52
1:C:1829:PHE:HB2	1:C:1834:LEU:HD12	1.92	0.52
1:D:496:LEU:HD12	1:D:497:LYS:H	1.75	0.52
1:D:664:HIS:ND1	1:D:744:LYS:HA	2.24	0.52
1:D:1171:ILE:O	1:D:1175:THR:HG23	2.10	0.52
1:D:1615:GLU:O	1:D:1618:GLN:HB2	2.10	0.52
1:D:1669:GLU:HB2	1:D:1672:PHE:CE2	2.44	0.52
1:D:1806:ASN:O	1:D:1821:GLN:NE2	2.40	0.52
1:D:1848:ARG:NE	1:D:1881:ALA:HB2	2.25	0.52
1:B:143:ARG:HA	1:B:146:GLN:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:405:VAL:HG21	1:B:446:PHE:HA	1.92	0.52
1:B:496:LEU:HD12	1:B:497:LYS:H	1.75	0.52
1:B:674:LEU:HD22	1:B:690:PRO:HG2	1.91	0.52
1:A:1669:GLU:HB2	1:A:1672:PHE:CE2	2.44	0.52
1:A:1721:LYS:CA	1:B:1738:MET:HG3	2.40	0.52
1:C:1676:LYS:HG3	1:C:1677:HIS:N	2.25	0.52
1:C:1848:ARG:NE	1:C:1881:ALA:HB2	2.25	0.52
1:B:1615:GLU:O	1:B:1618:GLN:HB2	2.10	0.52
1:A:212:PRO:HB3	1:A:1446:LYS:CE	2.40	0.51
1:A:1251:ARG:NH2	1:A:1294:ALA:O	2.43	0.51
1:C:151:ARG:NH2	1:C:1375:GLU:OE2	2.43	0.51
1:C:297:TYR:C	1:C:593:SER:HB3	2.35	0.51
1:C:1171:ILE:O	1:C:1175:THR:HG23	2.10	0.51
1:D:1097:PHE:CE2	1:D:1166:LEU:HD12	2.44	0.51
1:B:151:ARG:NH2	1:B:1375:GLU:OE2	2.43	0.51
1:B:400:HIS:CE1	1:B:402:ALA:HB3	2.46	0.51
1:B:1403:VAL:HG12	1:B:1409:ARG:HG3	1.92	0.51
1:B:1581:LEU:O	1:B:1585:ILE:HG13	2.09	0.51
1:B:1901:PRO:HA	1:B:1904:VAL:HB	1.92	0.51
1:A:405:VAL:HG13	1:A:449:PHE:HB3	1.92	0.51
1:A:1021:TYR:CE2	1:A:1041:ARG:HG3	2.39	0.51
1:A:1058:ASN:OD1	1:A:1109:LEU:N	2.43	0.51
1:C:400:HIS:CE1	1:C:402:ALA:HB3	2.46	0.51
1:C:1676:LYS:O	1:C:1679:THR:OG1	2.22	0.51
1:C:1903:GLU:HG3	1:C:1966:HIS:HE2	1.74	0.51
1:D:143:ARG:HA	1:D:146:GLN:HB2	1.91	0.51
1:D:1903:GLU:HG3	1:D:1966:HIS:HE2	1.75	0.51
1:B:672:PHE:N	1:B:709:VAL:O	2.32	0.51
1:B:721:ASP:OD1	1:B:724:LEU:N	2.28	0.51
1:B:1669:GLU:HB2	1:B:1672:PHE:CE2	2.44	0.51
1:B:1937:SER:HB3	1:B:1977:PHE:HE1	1.74	0.51
1:A:208:GLU:O	1:A:209:ARG:NH2	2.44	0.51
1:A:297:TYR:C	1:A:593:SER:HB3	2.35	0.51
1:A:509:PHE:HA	1:A:521:TYR:CD1	2.45	0.51
1:C:143:ARG:HA	1:C:146:GLN:HB2	1.92	0.51
1:C:1520:PHE:CZ	1:C:1525:LEU:HD11	2.45	0.51
1:D:1393:LEU:HA	1:D:1396:LEU:HD12	1.91	0.51
1:A:664:HIS:ND1	1:A:744:LYS:HA	2.24	0.51
1:C:283:LEU:HD21	1:C:401:LEU:HD11	1.91	0.51
1:C:1058:ASN:OD1	1:C:1109:LEU:N	2.43	0.51
1:D:151:ARG:NH2	1:D:1375:GLU:OE2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:208:GLU:O	1:D:209:ARG:NH2	2.44	0.51
1:D:466:ARG:NH2	1:D:605:PRO:HB2	2.15	0.51
1:D:674:LEU:HD22	1:D:690:PRO:HG2	1.91	0.51
1:B:208:GLU:O	1:B:209:ARG:NH2	2.44	0.51
1:B:1549:GLU:H	1:B:1549:GLU:CD	2.16	0.51
1:A:151:ARG:NH2	1:A:1375:GLU:OE2	2.43	0.51
1:A:306:LYS:O	1:A:310:ARG:NE	2.40	0.51
1:A:1392:VAL:O	1:A:1396:LEU:HG	2.10	0.51
1:A:1491:GLN:O	1:A:1495:ILE:HG12	2.10	0.51
1:A:1606:LYS:O	1:A:1610:LEU:HG	2.09	0.51
1:A:1903:GLU:HG3	1:A:1966:HIS:HE2	1.74	0.51
1:C:1606:LYS:O	1:C:1610:LEU:HG	2.09	0.51
1:D:400:HIS:CE1	1:D:402:ALA:HB3	2.46	0.51
1:D:590:PHE:CD1	1:D:620:LYS:HG2	2.46	0.51
1:D:757:LEU:O	1:D:760:SER:OG	2.23	0.51
1:B:590:PHE:CD1	1:B:620:LYS:HG2	2.46	0.51
1:B:1848:ARG:NE	1:B:1881:ALA:HB2	2.25	0.51
1:A:1403:VAL:HG12	1:A:1409:ARG:HG3	1.92	0.51
1:A:1474:ILE:O	1:A:1478:ARG:HG3	2.10	0.51
1:A:1615:GLU:O	1:A:1618:GLN:HB2	2.10	0.51
1:A:1901:PRO:HA	1:A:1904:VAL:HB	1.92	0.51
1:A:1942:VAL:HG12	1:A:1944:GLN:H	1.74	0.51
1:C:1393:LEU:HA	1:C:1396:LEU:HD12	1.91	0.51
1:D:265:CYS:HB3	1:D:300:LEU:HD11	1.92	0.51
1:D:576:TYR:CE2	1:D:631:HIS:HB3	2.46	0.51
1:D:1021:TYR:CE2	1:D:1041:ARG:HG3	2.39	0.51
1:B:265:CYS:HB3	1:B:300:LEU:HD11	1.92	0.51
1:B:986:ASP:OD1	1:B:986:ASP:N	2.39	0.51
1:B:1021:TYR:CE2	1:B:1041:ARG:HG3	2.39	0.51
1:B:1123:PRO:HA	1:B:1178:ARG:HH21	1.76	0.51
1:A:77:GLU:OE1	1:A:77:GLU:N	2.40	0.51
1:A:1409:ARG:HG2	1:A:1413:LEU:HD13	1.93	0.51
1:C:1615:GLU:O	1:C:1618:GLN:HB2	2.10	0.51
1:C:1771:TYR:CE1	1:C:1888:ARG:HB3	2.46	0.51
1:C:1787:GLU:HG3	1:C:1799:VAL:HG11	1.93	0.51
1:C:1916:LEU:HD11	1:C:1934:LEU:HD13	1.93	0.51
1:D:1707:TYR:O	1:D:1710:LEU:N	2.44	0.51
1:B:405:VAL:HG13	1:B:449:PHE:HB3	1.92	0.51
1:B:576:TYR:CE2	1:B:631:HIS:HB3	2.46	0.51
1:A:805:PHE:CE2	1:A:912:LEU:HA	2.46	0.51
1:A:1707:TYR:O	1:A:1710:LEU:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:265:CYS:HB3	1:C:300:LEU:HD11	1.92	0.51
1:C:405:VAL:HG13	1:C:449:PHE:HB3	1.92	0.51
1:C:721:ASP:OD1	1:C:724:LEU:N	2.28	0.51
1:C:1707:TYR:O	1:C:1710:LEU:N	2.44	0.51
1:D:47:LEU:HA	1:D:1104:ARG:HH22	1.76	0.51
1:D:1520:PHE:CZ	1:D:1525:LEU:HD11	2.45	0.51
1:D:1581:LEU:O	1:D:1585:ILE:HG13	2.09	0.51
1:D:1829:PHE:HB2	1:D:1834:LEU:HD12	1.92	0.51
1:D:1901:PRO:HA	1:D:1904:VAL:HB	1.92	0.51
1:B:721:ASP:HB3	1:B:724:LEU:HB2	1.91	0.51
1:B:1058:ASN:OD1	1:B:1109:LEU:N	2.43	0.51
1:B:1520:PHE:CZ	1:B:1525:LEU:HD11	2.45	0.51
1:A:400:HIS:CE1	1:A:402:ALA:HB3	2.46	0.51
1:A:1676:LYS:HG3	1:A:1677:HIS:N	2.25	0.51
1:C:208:GLU:O	1:C:209:ARG:NH2	2.44	0.51
1:C:590:PHE:CD1	1:C:620:LYS:HG2	2.46	0.51
1:C:1409:ARG:HG2	1:C:1413:LEU:HD13	1.93	0.51
1:C:1734:PHE:HE2	1:D:1727:HIS:NE2	2.09	0.51
1:C:1738:MET:HE3	1:D:1721:LYS:N	2.26	0.51
1:D:301:ASN:HB3	1:D:305:MET:CB	2.41	0.51
1:B:805:PHE:CE2	1:B:912:LEU:HA	2.46	0.51
1:B:1171:ILE:O	1:B:1175:THR:HG23	2.10	0.51
1:A:301:ASN:HB3	1:A:305:MET:CB	2.41	0.51
1:A:569:ASN:HA	1:A:607:VAL:O	2.11	0.51
1:A:1617:ALA:HB1	1:A:1694:PHE:CE2	2.46	0.51
1:A:1787:GLU:HG3	1:A:1799:VAL:HG11	1.93	0.51
1:D:805:PHE:CE2	1:D:912:LEU:HA	2.46	0.51
1:D:1123:PRO:HA	1:D:1178:ARG:HH21	1.76	0.51
1:D:1617:ALA:HB1	1:D:1694:PHE:CE2	2.46	0.51
1:B:1401:GLN:HA	1:B:1404:MET:HE1	1.93	0.51
1:A:459:PHE:HB2	1:A:494:ALA:HB3	1.92	0.50
1:A:590:PHE:CD1	1:A:620:LYS:HG2	2.46	0.50
1:A:1058:ASN:O	1:A:1107:HIS:ND1	2.37	0.50
1:A:1598:THR:O	1:A:1602:ASN:ND2	2.36	0.50
1:A:1731:GLN:OE1	1:B:1728:GLY:N	2.44	0.50
1:C:47:LEU:HA	1:C:1104:ARG:HH22	1.76	0.50
1:D:1409:ARG:HG2	1:D:1413:LEU:HD13	1.93	0.50
1:D:1916:LEU:HD11	1:D:1934:LEU:HD13	1.93	0.50
1:D:2014:LEU:O	1:D:2018:LEU:N	2.44	0.50
1:B:459:PHE:HB2	1:B:494:ALA:HB3	1.92	0.50
1:B:1617:ALA:HB1	1:B:1694:PHE:CE2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1916:LEU:HD11	1:B:1934:LEU:HD13	1.93	0.50
1:A:47:LEU:HA	1:A:1104:ARG:HH22	1.76	0.50
1:A:1123:PRO:HA	1:A:1178:ARG:HH21	1.76	0.50
1:C:261:ILE:HD11	1:C:446:PHE:CG	2.46	0.50
1:C:569:ASN:HA	1:C:607:VAL:O	2.11	0.50
1:C:1617:ALA:HB1	1:C:1694:PHE:CE2	2.46	0.50
1:C:2014:LEU:O	1:C:2018:LEU:N	2.44	0.50
1:D:114:GLU:HA	1:D:117:ILE:HG12	1.94	0.50
1:D:509:PHE:HA	1:D:521:TYR:CD1	2.45	0.50
1:D:818:SER:OG	1:D:819:LEU:N	2.44	0.50
1:B:261:ILE:HD11	1:B:446:PHE:CG	2.46	0.50
1:B:338:LEU:N	1:B:399:VAL:O	2.43	0.50
1:B:344:LYS:N	1:B:392:MET:O	2.38	0.50
1:B:620:LYS:C	1:B:621:LEU:HD12	2.37	0.50
1:A:276:PRO:HD2	1:A:345:VAL:HG21	1.94	0.50
1:A:672:PHE:N	1:A:709:VAL:O	2.31	0.50
1:A:818:SER:OG	1:A:819:LEU:N	2.44	0.50
1:A:1771:TYR:CE1	1:A:1888:ARG:HB3	2.46	0.50
1:A:1916:LEU:HD11	1:A:1934:LEU:HD13	1.93	0.50
1:C:285:ASP:HB2	1:C:292:ILE:HG21	1.94	0.50
1:C:459:PHE:HB2	1:C:494:ALA:HB3	1.92	0.50
1:C:576:TYR:CE2	1:C:631:HIS:HB3	2.46	0.50
1:C:1486:TYR:CE1	1:C:1490:ARG:HB2	2.47	0.50
1:C:1873:LYS:O	1:C:1897:THR:OG1	2.23	0.50
1:D:261:ILE:HD11	1:D:446:PHE:CG	2.46	0.50
1:D:569:ASN:HA	1:D:607:VAL:O	2.11	0.50
1:D:898:GLU:O	1:D:902:ILE:HG12	2.10	0.50
1:D:1751:TYR:CE1	1:D:1772:LYS:HD3	2.47	0.50
1:B:509:PHE:HA	1:B:521:TYR:CD1	2.45	0.50
1:B:898:GLU:O	1:B:902:ILE:HG12	2.10	0.50
1:B:1409:ARG:HG2	1:B:1413:LEU:HD13	1.93	0.50
1:A:212:PRO:O	1:A:215:VAL:HG22	2.12	0.50
1:A:1041:ARG:NE	1:A:1116:GLU:OE2	2.45	0.50
1:C:405:VAL:HG21	1:C:446:PHE:HA	1.92	0.50
1:C:509:PHE:HA	1:C:521:TYR:CD1	2.45	0.50
1:D:1041:ARG:NE	1:D:1116:GLU:OE2	2.44	0.50
1:B:911:GLU:H	1:B:911:GLU:CD	2.19	0.50
1:B:1041:ARG:NE	1:B:1116:GLU:OE2	2.44	0.50
1:B:1829:PHE:HB2	1:B:1834:LEU:HD12	1.92	0.50
1:A:285:ASP:HB2	1:A:292:ILE:HG21	1.94	0.50
1:A:405:VAL:HG21	1:A:446:PHE:HA	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1902:VAL:HG22	1:A:1953:PHE:HE1	1.76	0.50
1:C:212:PRO:O	1:C:215:VAL:HG22	2.12	0.50
1:C:818:SER:OG	1:C:819:LEU:N	2.44	0.50
1:D:1594:ASP:HA	1:D:1678:PHE:CE2	2.47	0.50
1:B:301:ASN:HB3	1:B:305:MET:CB	2.41	0.50
1:B:818:SER:OG	1:B:819:LEU:N	2.43	0.50
1:B:1753:ARG:NH1	1:B:1821:GLN:OE1	2.45	0.50
1:B:1771:TYR:CE1	1:B:1888:ARG:HB3	2.46	0.50
1:A:338:LEU:N	1:A:399:VAL:O	2.43	0.50
1:A:576:TYR:CE2	1:A:631:HIS:HB3	2.46	0.50
1:C:817:ARG:HD2	1:C:817:ARG:C	2.37	0.50
1:D:1902:VAL:HG22	1:D:1953:PHE:HE1	1.77	0.50
1:B:47:LEU:HA	1:B:1104:ARG:HH22	1.76	0.50
1:B:114:GLU:HA	1:B:117:ILE:HG12	1.94	0.50
1:B:120:TRP:HB3	1:B:838:TYR:HB3	1.94	0.50
1:B:1751:TYR:CE1	1:B:1772:LYS:HD3	2.47	0.50
1:B:1787:GLU:HG3	1:B:1799:VAL:HG11	1.93	0.50
1:A:114:GLU:HA	1:A:117:ILE:HG12	1.94	0.50
1:A:269:LYS:HB2	1:A:495:GLN:HB2	1.94	0.50
1:C:269:LYS:HB2	1:C:495:GLN:HB2	1.94	0.50
1:C:1041:ARG:NE	1:C:1116:GLU:OE2	2.44	0.50
1:C:1428:GLN:HG2	1:C:1432:PHE:CE2	2.47	0.50
1:D:405:VAL:HG13	1:D:449:PHE:HB3	1.92	0.50
1:D:620:LYS:C	1:D:621:LEU:HD12	2.37	0.50
1:D:817:ARG:HD2	1:D:817:ARG:C	2.37	0.50
1:D:1428:GLN:HG2	1:D:1432:PHE:CE2	2.47	0.50
1:D:1498:ASN:HD21	1:D:1501:ARG:HH12	1.60	0.50
1:B:212:PRO:O	1:B:215:VAL:HG22	2.12	0.50
1:B:1410:GLU:HG2	1:B:1411:SER:N	2.27	0.50
1:B:1594:ASP:HA	1:B:1678:PHE:CE2	2.46	0.50
1:A:1428:GLN:HG2	1:A:1432:PHE:CE2	2.47	0.50
1:A:1594:ASP:HA	1:A:1678:PHE:CE2	2.46	0.50
1:C:1403:VAL:HG12	1:C:1409:ARG:HG3	1.92	0.50
1:C:1410:GLU:HG2	1:C:1411:SER:N	2.27	0.50
1:C:1902:VAL:HG22	1:C:1953:PHE:HE1	1.77	0.50
1:C:1953:PHE:HB3	1:C:1967:HIS:CD2	2.47	0.50
1:D:459:PHE:HB2	1:D:494:ALA:HB3	1.92	0.50
1:D:623:LEU:HD12	1:D:624:PRO:HD2	1.94	0.50
1:D:1771:TYR:CE1	1:D:1888:ARG:HB3	2.46	0.50
1:B:1428:GLN:HG2	1:B:1432:PHE:CE2	2.47	0.50
1:A:152:GLN:HG3	1:A:1386:THR:HG21	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:265:CYS:HB3	1:A:300:LEU:HD11	1.92	0.50
1:A:1498:ASN:HD21	1:A:1501:ARG:HH12	1.60	0.50
1:A:1589:TYR:CD1	1:A:1595:LEU:HD13	2.47	0.50
1:C:623:LEU:HD12	1:C:624:PRO:HD2	1.94	0.50
1:C:805:PHE:CE2	1:C:912:LEU:HA	2.46	0.50
1:C:911:GLU:H	1:C:911:GLU:CD	2.19	0.50
1:D:120:TRP:HB3	1:D:838:TYR:HB3	1.94	0.50
1:D:276:PRO:HD2	1:D:345:VAL:HG21	1.93	0.50
1:D:338:LEU:HB3	1:D:401:LEU:HD21	1.94	0.50
1:D:1258:LEU:HD21	1:D:1291:CYS:SG	2.52	0.50
1:B:466:ARG:NH1	1:B:615:PHE:HA	2.27	0.50
1:B:2014:LEU:O	1:B:2018:LEU:N	2.44	0.50
1:A:261:ILE:HD11	1:A:446:PHE:CG	2.46	0.49
1:A:1300:LYS:NZ	1:A:1374:MET:HB3	2.27	0.49
1:A:1410:GLU:HG2	1:A:1411:SER:N	2.27	0.49
1:A:1486:TYR:CE1	1:A:1490:ARG:HB2	2.47	0.49
1:A:1953:PHE:HB3	1:A:1967:HIS:CD2	2.47	0.49
1:C:466:ARG:NH1	1:C:615:PHE:HA	2.27	0.49
1:C:1123:PRO:HA	1:C:1178:ARG:HH21	1.76	0.49
1:C:1401:GLN:HA	1:C:1404:MET:HE1	1.93	0.49
1:C:1498:ASN:HD21	1:C:1501:ARG:HH12	1.60	0.49
1:C:1589:TYR:CD1	1:C:1595:LEU:HD13	2.47	0.49
1:C:1825:VAL:HA	1:C:1852:PHE:HB3	1.94	0.49
1:D:1410:GLU:HG2	1:D:1411:SER:N	2.27	0.49
1:B:623:LEU:HD12	1:B:624:PRO:HD2	1.94	0.49
1:B:1707:TYR:O	1:B:1710:LEU:N	2.44	0.49
1:B:1902:VAL:HG22	1:B:1953:PHE:HE1	1.76	0.49
1:C:77:GLU:OE1	1:C:77:GLU:N	2.40	0.49
1:C:301:ASN:HB3	1:C:305:MET:CB	2.41	0.49
1:C:620:LYS:C	1:C:621:LEU:HD12	2.37	0.49
1:C:1806:ASN:O	1:C:1821:GLN:NE2	2.40	0.49
1:D:212:PRO:O	1:D:215:VAL:HG22	2.12	0.49
1:D:1401:GLN:HA	1:D:1404:MET:HE1	1.93	0.49
1:D:1787:GLU:HG3	1:D:1799:VAL:HG11	1.93	0.49
1:B:1589:TYR:CD1	1:B:1595:LEU:HD13	2.47	0.49
1:A:248:SER:N	1:A:826:ARG:HH11	2.11	0.49
1:A:623:LEU:HD12	1:A:624:PRO:HD2	1.94	0.49
1:A:1391:VAL:O	1:A:1395:THR:HG23	2.12	0.49
1:A:1802:ILE:HB	1:A:1821:GLN:HA	1.94	0.49
1:A:1825:VAL:HA	1:A:1852:PHE:HB3	1.94	0.49
1:C:114:GLU:HA	1:C:117:ILE:HG12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:152:GLN:HG3	1:C:1386:THR:HG21	1.94	0.49
1:C:284:TYR:HA	1:C:292:ILE:HG12	1.94	0.49
1:D:982:ARG:HD2	1:D:986:ASP:OD2	2.12	0.49
1:B:152:GLN:HG3	1:B:1386:THR:HG21	1.94	0.49
1:B:248:SER:N	1:B:826:ARG:HH11	2.11	0.49
1:B:285:ASP:HB2	1:B:292:ILE:HG21	1.94	0.49
1:B:485:LEU:HD22	1:B:488:ARG:HH11	1.77	0.49
1:B:569:ASN:HA	1:B:607:VAL:O	2.11	0.49
1:B:1300:LYS:NZ	1:B:1374:MET:HB3	2.28	0.49
1:A:915:GLN:HA	1:A:918:VAL:HG22	1.93	0.49
1:C:276:PRO:HD2	1:C:345:VAL:HG21	1.93	0.49
1:C:553:VAL:HG11	1:C:635:PHE:HZ	1.78	0.49
1:C:1043:GLU:O	1:C:1047:ILE:HG13	2.13	0.49
1:C:1492:ASN:HA	1:C:1495:ILE:HG12	1.94	0.49
1:C:1773:GLU:HG3	1:C:1774:PRO:HD2	1.94	0.49
1:D:248:SER:N	1:D:826:ARG:HH11	2.11	0.49
1:D:269:LYS:HB2	1:D:495:GLN:HB2	1.94	0.49
1:D:285:ASP:HB2	1:D:292:ILE:HG21	1.94	0.49
1:B:276:PRO:HD2	1:B:345:VAL:HG21	1.93	0.49
1:B:1160:ARG:HD3	1:B:1163:GLU:OE1	2.13	0.49
1:B:1701:GLU:H	1:B:1701:GLU:CD	2.21	0.49
1:A:817:ARG:HD2	1:A:817:ARG:C	2.37	0.49
1:A:1401:GLN:HA	1:A:1404:MET:HE1	1.93	0.49
1:A:1751:TYR:CE1	1:A:1772:LYS:HD3	2.47	0.49
1:A:1770:VAL:O	1:A:1888:ARG:HA	2.13	0.49
1:A:1934:LEU:O	1:A:1938:VAL:HG22	2.13	0.49
1:C:681:PRO:HG3	1:C:697:MET:HE3	1.95	0.49
1:C:746:THR:HG22	1:C:747:VAL:O	2.13	0.49
1:C:1021:TYR:CE2	1:C:1041:ARG:HG3	2.39	0.49
1:C:1798:VAL:O	1:C:1818:ALA:N	2.28	0.49
1:D:152:GLN:HG3	1:D:1386:THR:HG21	1.94	0.49
1:D:681:PRO:HG3	1:D:697:MET:HE3	1.95	0.49
1:D:1589:TYR:CD1	1:D:1595:LEU:HD13	2.47	0.49
1:D:1753:ARG:NH1	1:D:1821:GLN:OE1	2.45	0.49
1:D:1802:ILE:HB	1:D:1821:GLN:HA	1.94	0.49
1:B:982:ARG:HD2	1:B:986:ASP:OD2	2.12	0.49
1:B:1486:TYR:CE1	1:B:1490:ARG:HB2	2.47	0.49
1:B:1498:ASN:HD21	1:B:1501:ARG:HH12	1.60	0.49
1:A:553:VAL:HG11	1:A:635:PHE:HZ	1.78	0.49
1:A:620:LYS:C	1:A:621:LEU:HD12	2.37	0.49
1:A:726:LYS:O	1:A:730:LEU:HD13	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2014:LEU:O	1:A:2018:LEU:N	2.44	0.49
1:C:217:ARG:HH22	1:C:218:ARG:CZ	2.25	0.49
1:C:1751:TYR:CE1	1:C:1772:LYS:HD3	2.47	0.49
1:C:1920:THR:O	1:C:1987:LYS:HD3	2.12	0.49
1:C:1934:LEU:O	1:C:1938:VAL:HG22	2.13	0.49
1:D:911:GLU:O	1:D:915:GLN:HG2	2.13	0.49
1:D:1884:TYR:CG	1:D:1885:ILE:N	2.81	0.49
1:D:1934:LEU:O	1:D:1938:VAL:HG22	2.13	0.49
1:B:915:GLN:HA	1:B:918:VAL:HG22	1.93	0.49
1:A:338:LEU:HB3	1:A:401:LEU:HD21	1.94	0.49
1:A:485:LEU:HD22	1:A:488:ARG:HH11	1.77	0.49
1:A:721:ASP:OD1	1:A:724:LEU:N	2.28	0.49
1:A:746:THR:HG22	1:A:747:VAL:O	2.13	0.49
1:A:908:LEU:HA	1:A:911:GLU:OE2	2.13	0.49
1:A:1701:GLU:H	1:A:1701:GLU:CD	2.21	0.49
1:C:551:LEU:HD23	1:C:621:LEU:HD22	1.95	0.49
1:C:1622:HIS:HB3	1:C:1657:GLU:OE1	2.13	0.49
1:D:466:ARG:NH1	1:D:615:PHE:HA	2.27	0.49
1:D:746:THR:HG22	1:D:747:VAL:O	2.13	0.49
1:D:908:LEU:HA	1:D:911:GLU:OE2	2.13	0.49
1:D:915:GLN:HA	1:D:918:VAL:HG22	1.93	0.49
1:D:986:ASP:OD1	1:D:986:ASP:N	2.39	0.49
1:D:1595:LEU:O	1:D:1598:THR:OG1	2.26	0.49
1:D:1622:HIS:HB3	1:D:1657:GLU:OE1	2.13	0.49
1:B:278:PHE:O	1:B:342:LEU:HA	2.13	0.49
1:B:726:LYS:O	1:B:730:LEU:HD13	2.13	0.49
1:B:1258:LEU:HD21	1:B:1291:CYS:SG	2.53	0.49
1:B:1589:TYR:C	1:B:1596:ARG:HD3	2.38	0.49
1:B:1622:HIS:HB3	1:B:1657:GLU:OE1	2.13	0.49
1:B:1802:ILE:HB	1:B:1821:GLN:HA	1.94	0.49
1:A:284:TYR:HA	1:A:292:ILE:HG12	1.94	0.49
1:A:681:PRO:HG3	1:A:697:MET:HE3	1.95	0.49
1:A:1043:GLU:O	1:A:1047:ILE:HG13	2.13	0.49
1:A:1168:LEU:HA	1:A:1171:ILE:HD13	1.95	0.49
1:C:120:TRP:HB3	1:C:838:TYR:HB3	1.94	0.49
1:C:915:GLN:HA	1:C:918:VAL:HG22	1.93	0.49
1:D:284:TYR:HA	1:D:292:ILE:HG12	1.94	0.49
1:D:485:LEU:HD22	1:D:488:ARG:HH11	1.77	0.49
1:D:1391:VAL:O	1:D:1395:THR:HG23	2.12	0.49
1:D:1773:GLU:HG3	1:D:1774:PRO:HD2	1.94	0.49
1:D:1953:PHE:HB3	1:D:1967:HIS:CD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:338:LEU:HB3	1:B:401:LEU:HD21	1.94	0.49
1:B:551:LEU:HD23	1:B:621:LEU:HD22	1.95	0.49
1:B:770:GLU:H	1:B:770:GLU:CD	2.21	0.49
1:B:911:GLU:O	1:B:915:GLN:HG2	2.13	0.49
1:A:551:LEU:HD23	1:A:621:LEU:HD22	1.95	0.49
1:A:1403:VAL:O	1:A:1406:SER:N	2.44	0.49
1:A:1492:ASN:HA	1:A:1495:ILE:HG12	1.94	0.49
1:A:1920:THR:O	1:A:1987:LYS:HD3	2.12	0.49
1:C:485:LEU:HD22	1:C:488:ARG:HH11	1.77	0.49
1:C:757:LEU:O	1:C:760:SER:OG	2.23	0.49
1:C:769:PRO:HG2	1:C:770:GLU:CD	2.38	0.49
1:C:1770:VAL:O	1:C:1888:ARG:HA	2.13	0.49
1:D:212:PRO:HB3	1:D:1446:LYS:CE	2.40	0.49
1:D:278:PHE:O	1:D:342:LEU:HA	2.13	0.49
1:D:551:LEU:HD23	1:D:621:LEU:HD22	1.95	0.49
1:D:672:PHE:N	1:D:709:VAL:O	2.31	0.49
1:D:1300:LYS:NZ	1:D:1374:MET:HB3	2.28	0.49
1:B:212:PRO:HB3	1:B:1446:LYS:CE	2.40	0.49
1:B:269:LYS:HB2	1:B:495:GLN:HB2	1.94	0.49
1:B:553:VAL:HG11	1:B:635:PHE:HZ	1.78	0.49
1:B:908:LEU:HA	1:B:911:GLU:OE2	2.13	0.49
1:B:1650:ILE:O	1:B:1845:TYR:OH	2.18	0.49
1:A:320:THR:OG1	1:A:595:CYS:O	2.26	0.49
1:A:770:GLU:CD	1:A:770:GLU:H	2.21	0.49
1:A:1292:LEU:HD23	1:A:1292:LEU:HA	1.60	0.49
1:C:320:THR:OG1	1:C:595:CYS:O	2.26	0.49
1:C:1476:THR:C	1:C:1480:HIS:HD1	2.17	0.49
1:C:1825:VAL:HG22	1:C:1852:PHE:CD1	2.48	0.49
1:D:1168:LEU:HA	1:D:1171:ILE:HD13	1.95	0.49
1:D:1486:TYR:CE1	1:D:1490:ARG:HB2	2.47	0.49
1:B:306:LYS:O	1:B:310:ARG:NE	2.40	0.49
1:B:817:ARG:HD2	1:B:817:ARG:C	2.37	0.49
1:B:1403:VAL:O	1:B:1406:SER:N	2.44	0.49
1:B:1798:VAL:O	1:B:1818:ALA:N	2.28	0.49
1:A:977:LEU:HD11	1:D:802:ARG:HH12	1.77	0.48
1:A:1258:LEU:HD21	1:A:1291:CYS:SG	2.52	0.48
1:A:1447:PHE:HE2	1:A:1450:LEU:HB2	1.78	0.48
1:A:1680:GLU:O	1:A:1684:VAL:HG13	2.13	0.48
1:A:1825:VAL:HG22	1:A:1852:PHE:CD1	2.48	0.48
1:C:278:PHE:O	1:C:342:LEU:HA	2.13	0.48
1:C:908:LEU:HA	1:C:911:GLU:OE2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1004:LEU:O	1:C:1007:LEU:N	2.39	0.48
1:C:1160:ARG:HD3	1:C:1163:GLU:OE1	2.13	0.48
1:C:1168:LEU:HA	1:C:1171:ILE:HD13	1.95	0.48
1:C:1258:LEU:HD21	1:C:1291:CYS:SG	2.52	0.48
1:C:1680:GLU:O	1:C:1684:VAL:HG13	2.13	0.48
1:D:217:ARG:HH22	1:D:218:ARG:CZ	2.25	0.48
1:D:1403:VAL:HG13	1:D:1406:SER:HB3	1.95	0.48
1:B:1168:LEU:HA	1:B:1171:ILE:HD13	1.95	0.48
1:A:1589:TYR:C	1:A:1596:ARG:HD3	2.38	0.48
1:A:1773:GLU:HG3	1:A:1774:PRO:HD2	1.94	0.48
1:A:1884:TYR:CG	1:A:1885:ILE:N	2.81	0.48
1:C:338:LEU:HB3	1:C:401:LEU:HD21	1.94	0.48
1:C:345:VAL:HA	1:C:391:ARG:HD3	1.95	0.48
1:C:726:LYS:O	1:C:730:LEU:HD13	2.13	0.48
1:C:982:ARG:HD2	1:C:986:ASP:OD2	2.12	0.48
1:C:1300:LYS:NZ	1:C:1374:MET:HB3	2.28	0.48
1:C:1802:ILE:HB	1:C:1821:GLN:HA	1.95	0.48
1:C:1884:TYR:CG	1:C:1885:ILE:N	2.81	0.48
1:D:769:PRO:HG2	1:D:770:GLU:CD	2.38	0.48
1:D:1680:GLU:O	1:D:1684:VAL:HG13	2.13	0.48
1:D:1701:GLU:H	1:D:1701:GLU:CD	2.21	0.48
1:D:1920:THR:O	1:D:1987:LYS:HD3	2.12	0.48
1:B:746:THR:HG22	1:B:747:VAL:O	2.13	0.48
1:B:1403:VAL:HG13	1:B:1406:SER:HB3	1.95	0.48
1:B:1934:LEU:O	1:B:1938:VAL:HG22	2.13	0.48
1:B:1953:PHE:HB3	1:B:1967:HIS:CD2	2.47	0.48
1:A:120:TRP:HB3	1:A:838:TYR:HB3	1.94	0.48
1:A:217:ARG:HH22	1:A:218:ARG:CZ	2.25	0.48
1:A:1622:HIS:HB3	1:A:1657:GLU:OE1	2.13	0.48
1:C:284:TYR:HB3	1:C:473:PHE:HE1	1.78	0.48
1:C:770:GLU:CD	1:C:770:GLU:H	2.21	0.48
1:D:575:GLN:O	1:D:634:LEU:N	2.46	0.48
1:D:1483:ALA:O	1:D:1487:LEU:HD23	2.13	0.48
1:D:1492:ASN:HA	1:D:1495:ILE:HG12	1.94	0.48
1:B:284:TYR:HA	1:B:292:ILE:HG12	1.94	0.48
1:B:635:PHE:N	1:B:657:THR:O	2.47	0.48
1:B:681:PRO:HG3	1:B:697:MET:HE3	1.95	0.48
1:B:1483:ALA:O	1:B:1487:LEU:HD23	2.13	0.48
1:A:122:ILE:HG23	1:A:837:HIS:CD2	2.49	0.48
1:A:982:ARG:HD2	1:A:986:ASP:OD2	2.12	0.48
1:C:122:ILE:HG23	1:C:837:HIS:CD2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:984:HIS:ND1	1:C:985:LYS:HG3	2.29	0.48
1:C:1391:VAL:O	1:C:1395:THR:HG23	2.12	0.48
1:C:1589:TYR:C	1:C:1596:ARG:HD3	2.38	0.48
1:C:1779:LEU:HB2	1:C:1824:TYR:HB2	1.95	0.48
1:D:1043:GLU:O	1:D:1047:ILE:HG13	2.13	0.48
1:B:217:ARG:HH22	1:B:218:ARG:CZ	2.25	0.48
1:B:300:LEU:HD23	1:B:323:ARG:HD3	1.95	0.48
1:B:1391:VAL:O	1:B:1395:THR:HG23	2.12	0.48
1:B:1825:VAL:HG22	1:B:1852:PHE:CD1	2.48	0.48
1:B:1825:VAL:HA	1:B:1852:PHE:HB3	1.94	0.48
1:B:1920:THR:O	1:B:1987:LYS:HD3	2.13	0.48
1:A:466:ARG:NH1	1:A:615:PHE:HA	2.27	0.48
1:A:911:GLU:O	1:A:915:GLN:HG2	2.13	0.48
1:C:466:ARG:NH2	1:C:605:PRO:HB2	2.15	0.48
1:C:635:PHE:N	1:C:657:THR:O	2.46	0.48
1:C:1585:ILE:HG22	1:C:1589:TYR:HE2	1.79	0.48
1:C:1594:ASP:HA	1:C:1678:PHE:CE2	2.47	0.48
1:C:1753:ARG:NH1	1:C:1821:GLN:OE1	2.45	0.48
1:D:553:VAL:HG11	1:D:635:PHE:HZ	1.78	0.48
1:D:1021:TYR:O	1:D:1024:VAL:HG12	2.14	0.48
1:D:1825:VAL:HG22	1:D:1852:PHE:CD1	2.48	0.48
1:B:575:GLN:O	1:B:634:LEU:N	2.46	0.48
1:B:1773:GLU:HG3	1:B:1774:PRO:HD2	1.94	0.48
1:B:1779:LEU:HB2	1:B:1824:TYR:HB2	1.95	0.48
1:A:575:GLN:O	1:A:634:LEU:N	2.46	0.48
1:A:1437:LEU:HA	1:A:1440:GLN:NE2	2.28	0.48
1:C:248:SER:N	1:C:826:ARG:HH11	2.11	0.48
1:C:579:GLY:HA2	1:C:630:ASN:HB3	1.96	0.48
1:C:1447:PHE:HE2	1:C:1450:LEU:HB2	1.78	0.48
1:D:726:LYS:O	1:D:730:LEU:HD13	2.13	0.48
1:D:1589:TYR:C	1:D:1596:ARG:HD3	2.38	0.48
1:D:1650:ILE:HG12	1:D:1705:GLU:HB3	1.96	0.48
1:B:281:LEU:HB2	1:B:296:PHE:HB3	1.96	0.48
1:B:284:TYR:HB3	1:B:473:PHE:HE1	1.78	0.48
1:B:295:ASN:H	1:B:618:GLU:CD	2.22	0.48
1:B:829:CYS:HB3	1:B:832:LEU:HB2	1.95	0.48
1:B:1043:GLU:O	1:B:1047:ILE:HG13	2.13	0.48
1:B:1492:ASN:HA	1:B:1495:ILE:HG12	1.94	0.48
1:B:1650:ILE:HG12	1:B:1705:GLU:HB3	1.96	0.48
1:A:579:GLY:HA2	1:A:630:ASN:HB3	1.96	0.48
1:A:911:GLU:H	1:A:911:GLU:CD	2.19	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1483:ALA:O	1:A:1487:LEU:HD23	2.13	0.48
1:C:1483:ALA:O	1:C:1487:LEU:HD23	2.13	0.48
1:C:1701:GLU:CD	1:C:1701:GLU:H	2.21	0.48
1:D:295:ASN:H	1:D:618:GLU:CD	2.22	0.48
1:B:85:LEU:HD12	1:B:947:LEU:CD2	2.44	0.48
1:B:1008:VAL:HG12	1:B:1009:ASP:N	2.29	0.48
1:A:281:LEU:HB2	1:A:296:PHE:HB3	1.96	0.48
1:A:635:PHE:N	1:A:657:THR:O	2.47	0.48
1:A:769:PRO:HG2	1:A:770:GLU:CD	2.38	0.48
1:A:984:HIS:ND1	1:A:985:LYS:HG3	2.29	0.48
1:A:1160:ARG:HD3	1:A:1163:GLU:OE1	2.13	0.48
1:A:1753:ARG:NH1	1:A:1821:GLN:OE1	2.45	0.48
1:C:85:LEU:HD12	1:C:947:LEU:CD2	2.44	0.48
1:C:911:GLU:O	1:C:915:GLN:HG2	2.13	0.48
1:C:1021:TYR:O	1:C:1024:VAL:HG12	2.14	0.48
1:C:1528:SER:OG	1:C:1529:LEU:N	2.47	0.48
1:C:1934:LEU:HD21	1:C:1985:LEU:HG	1.95	0.48
1:D:1825:VAL:HA	1:D:1852:PHE:HB3	1.94	0.48
1:A:802:ARG:HH12	1:D:977:LEU:HD11	1.78	0.48
1:A:1528:SER:OG	1:A:1529:LEU:N	2.47	0.48
1:C:281:LEU:HB2	1:C:296:PHE:HB3	1.96	0.48
1:C:798:VAL:O	1:C:800:LEU:N	2.47	0.48
1:C:1399:ILE:O	1:C:1402:THR:HB	2.14	0.48
1:D:138:THR:O	1:D:141:THR:OG1	2.28	0.48
1:D:281:LEU:HB2	1:D:296:PHE:HB3	1.96	0.48
1:D:770:GLU:CD	1:D:770:GLU:H	2.21	0.48
1:D:1008:VAL:HG12	1:D:1009:ASP:N	2.29	0.48
1:D:1403:VAL:O	1:D:1406:SER:N	2.44	0.48
1:B:70:GLY:C	1:B:73:ARG:HH11	2.22	0.48
1:B:345:VAL:HA	1:B:391:ARG:HD3	1.95	0.48
1:B:579:GLY:HA2	1:B:630:ASN:HB3	1.96	0.48
1:B:769:PRO:HG2	1:B:770:GLU:CD	2.38	0.48
1:B:1528:SER:OG	1:B:1529:LEU:N	2.47	0.48
1:B:1680:GLU:O	1:B:1684:VAL:HG13	2.13	0.48
1:B:1884:TYR:CG	1:B:1885:ILE:N	2.81	0.48
1:A:278:PHE:O	1:A:342:LEU:HA	2.13	0.48
1:A:300:LEU:HD23	1:A:323:ARG:HD3	1.95	0.48
1:A:398:ALA:HB1	1:A:479:MET:HG3	1.96	0.48
1:C:250:PRO:HD2	1:C:837:HIS:ND1	2.29	0.48
1:C:338:LEU:N	1:C:399:VAL:O	2.43	0.48
1:C:1650:ILE:HG12	1:C:1705:GLU:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:300:LEU:HD23	1:D:323:ARG:HD3	1.95	0.48
1:D:345:VAL:HA	1:D:391:ARG:HD3	1.95	0.48
1:D:829:CYS:HB3	1:D:832:LEU:HB2	1.95	0.48
1:D:1399:ILE:O	1:D:1402:THR:HB	2.14	0.48
1:D:1854:THR:OG1	1:D:1872:ARG:HD2	2.14	0.48
1:B:984:HIS:ND1	1:B:985:LYS:HG3	2.29	0.48
1:B:1021:TYR:O	1:B:1024:VAL:HG12	2.14	0.48
1:A:344:LYS:N	1:A:392:MET:O	2.38	0.47
1:A:1403:VAL:HG13	1:A:1406:SER:HB3	1.95	0.47
1:A:1585:ILE:HG22	1:A:1589:TYR:HE2	1.79	0.47
1:A:1779:LEU:HB2	1:A:1824:TYR:HB2	1.95	0.47
1:C:344:LYS:N	1:C:392:MET:O	2.38	0.47
1:C:1988:ASN:HB3	1:C:2000:HIS:CE1	2.49	0.47
1:D:122:ILE:HG23	1:D:837:HIS:CD2	2.48	0.47
1:D:685:TYR:CG	1:D:686:SER:N	2.82	0.47
1:D:1528:SER:OG	1:D:1529:LEU:N	2.47	0.47
1:B:1568:MET:O	1:B:1578:LEU:HD11	2.14	0.47
1:B:1854:THR:OG1	1:B:1872:ARG:HD2	2.14	0.47
1:A:345:VAL:HA	1:A:391:ARG:HD3	1.95	0.47
1:A:829:CYS:HB3	1:A:832:LEU:HB2	1.95	0.47
1:A:1476:THR:C	1:A:1480:HIS:HD1	2.17	0.47
1:A:1988:ASN:HB3	1:A:2000:HIS:CE1	2.49	0.47
1:C:243:ALA:O	1:C:1046:ARG:NH1	2.48	0.47
1:D:1902:VAL:HG22	1:D:1953:PHE:CE1	2.49	0.47
1:B:122:ILE:HG23	1:B:837:HIS:CD2	2.49	0.47
1:B:1902:VAL:HG22	1:B:1953:PHE:CE1	2.49	0.47
1:A:553:VAL:HA	1:A:711:LEU:HD22	1.96	0.47
1:A:685:TYR:CG	1:A:686:SER:N	2.82	0.47
1:A:1008:VAL:HG12	1:A:1009:ASP:N	2.29	0.47
1:A:1399:ILE:O	1:A:1402:THR:HB	2.14	0.47
1:A:1650:ILE:HG12	1:A:1705:GLU:HB3	1.96	0.47
1:C:312:HIS:CB	1:C:389:ARG:HB2	2.45	0.47
1:C:734:LEU:CD1	1:C:757:LEU:HD22	2.45	0.47
1:C:1437:LEU:HA	1:C:1440:GLN:NE2	2.28	0.47
1:C:1603:MET:C	1:C:1607:HIS:HD1	2.18	0.47
1:C:1902:VAL:HG22	1:C:1953:PHE:CE1	2.49	0.47
1:D:204:PRO:O	1:D:207:LEU:N	2.47	0.47
1:D:579:GLY:HA2	1:D:630:ASN:HB3	1.96	0.47
1:D:635:PHE:N	1:D:657:THR:O	2.46	0.47
1:D:1160:ARG:HD3	1:D:1163:GLU:OE1	2.13	0.47
1:A:671:PRO:HA	1:A:710:GLU:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:798:VAL:O	1:A:800:LEU:N	2.47	0.47
1:A:1568:MET:O	1:A:1578:LEU:HD11	2.15	0.47
1:B:138:THR:O	1:B:141:THR:OG1	2.28	0.47
1:B:1292:LEU:HD23	1:B:1292:LEU:HA	1.60	0.47
1:B:1437:LEU:HA	1:B:1440:GLN:NE2	2.28	0.47
1:B:1585:ILE:HG22	1:B:1589:TYR:HE2	1.79	0.47
1:A:250:PRO:HD2	1:A:837:HIS:ND1	2.29	0.47
1:A:295:ASN:H	1:A:618:GLU:CD	2.22	0.47
1:A:1021:TYR:O	1:A:1024:VAL:HG12	2.14	0.47
1:C:835:TYR:CD1	1:C:839:ALA:HB3	2.50	0.47
1:D:85:LEU:HD12	1:D:947:LEU:CD2	2.44	0.47
1:D:88:GLN:C	1:D:119:ASP:HB3	2.39	0.47
1:D:671:PRO:HA	1:D:710:GLU:HA	1.96	0.47
1:D:984:HIS:ND1	1:D:985:LYS:HG3	2.29	0.47
1:B:251:GLU:HG2	1:B:252:PRO:O	2.14	0.47
1:B:553:VAL:HA	1:B:711:LEU:HD22	1.96	0.47
1:B:798:VAL:O	1:B:800:LEU:N	2.47	0.47
1:B:1627:VAL:HG12	1:B:1683:LEU:HD22	1.97	0.47
1:B:1729:LYS:HA	1:B:1732:GLU:OE2	2.14	0.47
1:A:734:LEU:CD1	1:A:757:LEU:HD22	2.45	0.47
1:A:1854:THR:OG1	1:A:1872:ARG:HD2	2.14	0.47
1:A:1865:GLU:OE2	1:A:1944:GLN:NE2	2.48	0.47
1:C:108:GLN:HG3	1:C:732:HIS:CD2	2.50	0.47
1:C:575:GLN:O	1:C:634:LEU:N	2.46	0.47
1:C:829:CYS:HB3	1:C:832:LEU:HB2	1.95	0.47
1:C:1388:ALA:O	1:C:1392:VAL:HG23	2.15	0.47
1:D:553:VAL:HA	1:D:711:LEU:HD22	1.96	0.47
1:D:1388:ALA:O	1:D:1392:VAL:HG23	2.15	0.47
1:B:84:GLU:O	1:B:124:HIS:N	2.47	0.47
1:B:107:ALA:HB3	1:B:732:HIS:CD2	2.50	0.47
1:B:204:PRO:O	1:B:207:LEU:N	2.47	0.47
1:B:243:ALA:O	1:B:1046:ARG:NH1	2.48	0.47
1:B:685:TYR:CG	1:B:686:SER:N	2.82	0.47
1:B:1388:ALA:O	1:B:1392:VAL:HG23	2.15	0.47
1:B:1934:LEU:HD21	1:B:1985:LEU:HG	1.95	0.47
1:A:85:LEU:HD12	1:A:947:LEU:CD2	2.44	0.47
1:A:88:GLN:C	1:A:119:ASP:HB3	2.39	0.47
1:A:312:HIS:CB	1:A:389:ARG:HB2	2.45	0.47
1:A:336:ILE:O	1:A:400:HIS:HD2	1.98	0.47
1:A:1376:HIS:O	1:A:1379:LEU:HB3	2.15	0.47
1:C:88:GLN:C	1:C:119:ASP:HB3	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:300:LEU:HD23	1:C:323:ARG:HD3	1.95	0.47
1:C:398:ALA:HB1	1:C:479:MET:HG3	1.96	0.47
1:C:685:TYR:CG	1:C:686:SER:N	2.82	0.47
1:C:1008:VAL:HG12	1:C:1009:ASP:N	2.29	0.47
1:C:1729:LYS:HA	1:C:1732:GLU:OE2	2.14	0.47
1:C:1787:GLU:O	1:C:1791:THR:OG1	2.22	0.47
1:C:1804:ASP:OD1	1:C:1804:ASP:N	2.48	0.47
1:C:1854:THR:OG1	1:C:1872:ARG:HD2	2.14	0.47
1:D:70:GLY:C	1:D:73:ARG:HH11	2.22	0.47
1:D:108:GLN:HG3	1:D:732:HIS:CD2	2.50	0.47
1:D:243:ALA:O	1:D:1046:ARG:NH1	2.48	0.47
1:D:285:ASP:HB3	1:D:288:GLU:HB3	1.97	0.47
1:D:306:LYS:O	1:D:310:ARG:NE	2.40	0.47
1:D:340:ILE:H	1:D:397:THR:HG22	1.80	0.47
1:D:398:ALA:HB1	1:D:479:MET:HG3	1.96	0.47
1:D:798:VAL:O	1:D:800:LEU:N	2.47	0.47
1:D:1437:LEU:HA	1:D:1440:GLN:NE2	2.28	0.47
1:D:1568:MET:O	1:D:1578:LEU:HD11	2.14	0.47
1:D:1585:ILE:HG22	1:D:1589:TYR:HE2	1.79	0.47
1:D:1589:TYR:O	1:D:1592:SER:N	2.47	0.47
1:D:1627:VAL:HG12	1:D:1683:LEU:HD22	1.96	0.47
1:D:1639:HIS:O	1:D:1713:ILE:HG12	2.15	0.47
1:D:1729:LYS:HA	1:D:1732:GLU:OE2	2.14	0.47
1:D:1770:VAL:O	1:D:1888:ARG:HA	2.13	0.47
1:D:1934:LEU:HD13	1:D:1984:ALA:HB3	1.97	0.47
1:D:1934:LEU:HD21	1:D:1985:LEU:HG	1.95	0.47
1:D:1988:ASN:HB3	1:D:2000:HIS:CE1	2.49	0.47
1:B:108:GLN:HG3	1:B:732:HIS:CD2	2.50	0.47
1:B:223:ARG:CZ	1:B:1397:GLU:OE1	2.63	0.47
1:B:1376:HIS:O	1:B:1379:LEU:HB3	2.15	0.47
1:B:1988:ASN:HB3	1:B:2000:HIS:CE1	2.49	0.47
1:A:204:PRO:O	1:A:207:LEU:N	2.47	0.47
1:A:284:TYR:HB3	1:A:473:PHE:HE1	1.78	0.47
1:A:285:ASP:HB3	1:A:288:GLU:HB3	1.97	0.47
1:C:107:ALA:HB3	1:C:732:HIS:CD2	2.50	0.47
1:C:204:PRO:O	1:C:207:LEU:N	2.47	0.47
1:C:251:GLU:HG2	1:C:252:PRO:O	2.15	0.47
1:C:295:ASN:H	1:C:618:GLU:CD	2.22	0.47
1:C:1147:ASP:OD1	1:C:1259:TRP:NE1	2.34	0.47
1:C:1627:VAL:HG12	1:C:1683:LEU:HD22	1.97	0.47
1:C:1639:HIS:CG	1:C:1716:ALA:HB2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:223:ARG:CZ	1:D:1397:GLU:OE1	2.63	0.47
1:D:1779:LEU:HB2	1:D:1824:TYR:HB2	1.95	0.47
1:B:984:HIS:CE1	1:B:985:LYS:HG3	2.50	0.47
1:B:1447:PHE:HE2	1:B:1450:LEU:HB2	1.78	0.47
1:A:70:GLY:C	1:A:73:ARG:HH11	2.22	0.47
1:A:466:ARG:NH2	1:A:605:PRO:HB2	2.15	0.47
1:C:70:GLY:C	1:C:73:ARG:HH11	2.22	0.47
1:C:229:PRO:O	1:C:231:LEU:N	2.48	0.47
1:C:553:VAL:HA	1:C:711:LEU:HD22	1.96	0.47
1:C:1988:ASN:O	1:C:1992:ILE:HG23	2.15	0.47
1:D:250:PRO:HD2	1:D:837:HIS:ND1	2.29	0.47
1:B:250:PRO:HD2	1:B:837:HIS:ND1	2.29	0.47
1:B:1639:HIS:O	1:B:1713:ILE:HG12	2.15	0.47
1:B:1804:ASP:N	1:B:1804:ASP:OD1	2.48	0.47
1:A:108:GLN:HG3	1:A:732:HIS:CD2	2.50	0.47
1:A:229:PRO:O	1:A:231:LEU:N	2.48	0.47
1:A:1388:ALA:O	1:A:1392:VAL:HG23	2.15	0.47
1:A:1639:HIS:CG	1:A:1716:ALA:HB2	2.50	0.47
1:C:155:GLU:OE2	1:C:1473:ARG:HG3	2.15	0.47
1:C:285:ASP:HB3	1:C:288:GLU:HB3	1.97	0.47
1:C:1376:HIS:O	1:C:1379:LEU:HB3	2.15	0.47
1:C:1639:HIS:O	1:C:1713:ILE:HG12	2.15	0.47
1:D:107:ALA:HB3	1:D:732:HIS:CD2	2.50	0.47
1:D:984:HIS:CE1	1:D:985:LYS:HG3	2.50	0.47
1:D:1865:GLU:OE2	1:D:1944:GLN:NE2	2.48	0.47
1:D:1988:ASN:O	1:D:1992:ILE:HG23	2.15	0.47
1:B:336:ILE:O	1:B:400:HIS:HD2	1.98	0.47
1:B:1428:GLN:OE1	1:B:1433:LEU:HD21	2.15	0.47
1:B:1639:HIS:CG	1:B:1716:ALA:HB2	2.50	0.47
1:B:1770:VAL:O	1:B:1888:ARG:HA	2.13	0.47
1:A:155:GLU:OE2	1:A:1473:ARG:HG3	2.15	0.46
1:A:231:LEU:HB2	1:A:1262:LYS:NZ	2.19	0.46
1:A:251:GLU:HG2	1:A:252:PRO:O	2.14	0.46
1:C:657:THR:HG21	1:C:707:PHE:CE2	2.50	0.46
1:C:1428:GLN:OE1	1:C:1433:LEU:HD21	2.15	0.46
1:C:1487:LEU:HD13	1:C:1487:LEU:HA	1.70	0.46
1:D:284:TYR:HB3	1:D:473:PHE:HE1	1.78	0.46
1:D:1626:LEU:HB2	1:D:1657:GLU:OE2	2.15	0.46
1:B:398:ALA:HB1	1:B:479:MET:HG3	1.96	0.46
1:B:1399:ILE:O	1:B:1402:THR:HB	2.14	0.46
1:B:1865:GLU:OE2	1:B:1944:GLN:NE2	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:220:GLU:HA	1:A:223:ARG:NH2	2.30	0.46
1:A:657:THR:HG21	1:A:707:PHE:CE2	2.50	0.46
1:A:994:ASN:ND2	1:A:1040:LEU:HB3	2.30	0.46
1:A:1603:MET:C	1:A:1607:HIS:HD1	2.18	0.46
1:A:1934:LEU:HD13	1:A:1984:ALA:HB3	1.97	0.46
1:A:1934:LEU:HD21	1:A:1985:LEU:HG	1.95	0.46
1:C:1403:VAL:HG13	1:C:1406:SER:HB3	1.95	0.46
1:C:1472:SER:O	1:C:1478:ARG:NH1	2.44	0.46
1:C:1568:MET:O	1:C:1578:LEU:HD11	2.14	0.46
1:C:1854:THR:OG1	1:C:1854:THR:O	2.33	0.46
1:C:1865:GLU:OE2	1:C:1944:GLN:NE2	2.47	0.46
1:D:155:GLU:OE2	1:D:1473:ARG:HG3	2.15	0.46
1:D:251:GLU:HG2	1:D:252:PRO:O	2.14	0.46
1:D:734:LEU:CD1	1:D:757:LEU:HD22	2.45	0.46
1:D:1472:SER:O	1:D:1478:ARG:NH1	2.44	0.46
1:D:1585:ILE:HG22	1:D:1589:TYR:CE2	2.51	0.46
1:D:1639:HIS:CG	1:D:1716:ALA:HB2	2.50	0.46
1:B:88:GLN:C	1:B:119:ASP:HB3	2.39	0.46
1:B:229:PRO:O	1:B:231:LEU:N	2.48	0.46
1:B:734:LEU:CD1	1:B:757:LEU:HD22	2.45	0.46
1:B:749:SER:N	1:B:752:ASN:OD1	2.42	0.46
1:A:243:ALA:O	1:A:1046:ARG:NH1	2.48	0.46
1:A:536:PRO:HB2	1:A:538:ARG:O	2.15	0.46
1:A:658:TRP:CE2	1:A:690:PRO:HD3	2.51	0.46
1:A:984:HIS:CE1	1:A:985:LYS:HG3	2.50	0.46
1:A:1589:TYR:O	1:A:1592:SER:N	2.48	0.46
1:A:1729:LYS:HA	1:A:1732:GLU:OE2	2.14	0.46
1:C:223:ARG:CZ	1:C:1397:GLU:OE1	2.63	0.46
1:C:576:TYR:HA	1:C:633:LEU:HA	1.98	0.46
1:C:994:ASN:ND2	1:C:1040:LEU:HB3	2.30	0.46
1:D:220:GLU:HA	1:D:223:ARG:NH2	2.30	0.46
1:D:338:LEU:N	1:D:399:VAL:O	2.43	0.46
1:B:285:ASP:HB3	1:B:288:GLU:HB3	1.97	0.46
1:B:1626:LEU:HB2	1:B:1657:GLU:OE2	2.15	0.46
1:B:1720:TYR:HA	1:B:1723:LEU:HD12	1.97	0.46
1:A:54:LEU:HD23	1:A:59:VAL:HG21	1.97	0.46
1:C:671:PRO:HA	1:C:710:GLU:HA	1.96	0.46
1:D:229:PRO:O	1:D:231:LEU:N	2.48	0.46
1:D:320:THR:OG1	1:D:595:CYS:O	2.26	0.46
1:B:277:ILE:HG12	1:B:344:LYS:HG2	1.97	0.46
1:B:671:PRO:HA	1:B:710:GLU:HA	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1934:LEU:HD13	1:B:1984:ALA:HB3	1.97	0.46
1:A:223:ARG:CZ	1:A:1397:GLU:OE1	2.63	0.46
1:A:340:ILE:H	1:A:397:THR:HG22	1.80	0.46
1:A:485:LEU:HD22	1:A:488:ARG:NH1	2.31	0.46
1:A:835:TYR:CD1	1:A:839:ALA:HB3	2.50	0.46
1:A:1585:ILE:HG22	1:A:1589:TYR:CE2	2.51	0.46
1:A:1707:TYR:CD1	1:A:1726:VAL:HG13	2.51	0.46
1:C:138:THR:O	1:C:141:THR:OG1	2.28	0.46
1:C:334:PRO:O	1:C:400:HIS:NE2	2.49	0.46
1:C:780:LEU:O	1:C:784:VAL:HG23	2.15	0.46
1:C:1585:ILE:HG22	1:C:1589:TYR:CE2	2.51	0.46
1:D:54:LEU:HD23	1:D:59:VAL:HG21	1.98	0.46
1:D:1376:HIS:O	1:D:1379:LEU:HB3	2.15	0.46
1:D:1428:GLN:OE1	1:D:1433:LEU:HD21	2.15	0.46
1:B:604:THR:HB	1:B:615:PHE:CE1	2.51	0.46
1:B:1585:ILE:HG22	1:B:1589:TYR:CE2	2.51	0.46
1:A:261:ILE:O	1:A:326:ILE:HA	2.16	0.46
1:A:1428:GLN:OE1	1:A:1433:LEU:HD21	2.15	0.46
1:A:1498:ASN:HD21	1:A:1501:ARG:NH1	2.14	0.46
1:A:1804:ASP:N	1:A:1804:ASP:OD1	2.48	0.46
1:A:1902:VAL:HG22	1:A:1953:PHE:CE1	2.49	0.46
1:A:1988:ASN:O	1:A:1992:ILE:HG23	2.15	0.46
1:C:54:LEU:HD23	1:C:59:VAL:HG21	1.98	0.46
1:C:277:ILE:HG12	1:C:344:LYS:HG2	1.97	0.46
1:C:348:GLN:HG2	1:C:383:PHE:HZ	1.81	0.46
1:C:485:LEU:HD22	1:C:488:ARG:NH1	2.31	0.46
1:C:577:MET:HA	1:C:577:MET:HE3	1.98	0.46
1:C:1707:TYR:CD1	1:C:1726:VAL:HG13	2.51	0.46
1:C:1720:TYR:HA	1:C:1723:LEU:HD12	1.97	0.46
1:C:1753:ARG:HH22	1:C:1821:GLN:HG2	1.81	0.46
1:D:312:HIS:CB	1:D:389:ARG:HB2	2.45	0.46
1:D:576:TYR:HA	1:D:633:LEU:HA	1.98	0.46
1:D:577:MET:HA	1:D:577:MET:HE3	1.98	0.46
1:B:155:GLU:OE2	1:B:1473:ARG:HG3	2.15	0.46
1:B:340:ILE:H	1:B:397:THR:HG22	1.80	0.46
1:B:1045:THR:HG21	1:B:1116:GLU:HG3	1.98	0.46
1:B:1437:LEU:O	1:B:1441:ARG:HG3	2.16	0.46
1:A:107:ALA:HB3	1:A:732:HIS:CD2	2.50	0.46
1:A:749:SER:N	1:A:752:ASN:OD1	2.42	0.46
1:A:1004:LEU:O	1:A:1007:LEU:N	2.39	0.46
1:A:1284:LEU:HD23	1:A:1285:LEU:HD22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1284:LEU:HD23	1:C:1285:LEU:HD22	1.98	0.46
1:D:336:ILE:O	1:D:400:HIS:HD2	1.98	0.46
1:D:663:GLN:HE21	1:D:744:LYS:HZ2	1.64	0.46
1:D:1437:LEU:O	1:D:1441:ARG:HG3	2.16	0.46
1:D:1753:ARG:HH22	1:D:1821:GLN:HG2	1.81	0.46
1:B:576:TYR:HA	1:B:633:LEU:HA	1.98	0.46
1:B:657:THR:HG21	1:B:707:PHE:CE2	2.50	0.46
1:B:780:LEU:O	1:B:784:VAL:HG23	2.16	0.46
1:B:994:ASN:ND2	1:B:1040:LEU:HB3	2.30	0.46
1:B:1472:SER:O	1:B:1478:ARG:NH1	2.44	0.46
1:B:1476:THR:C	1:B:1480:HIS:HD1	2.17	0.46
1:B:1707:TYR:CD1	1:B:1726:VAL:HG13	2.51	0.46
1:B:1753:ARG:HH22	1:B:1821:GLN:HG2	1.81	0.46
1:A:206:LEU:O	1:A:209:ARG:NH2	2.49	0.46
1:A:235:TYR:OH	1:A:1251:ARG:HG3	2.16	0.46
1:A:1639:HIS:O	1:A:1713:ILE:HG12	2.15	0.46
1:C:220:GLU:HA	1:C:223:ARG:NH2	2.30	0.46
1:C:235:TYR:OH	1:C:1251:ARG:HG3	2.16	0.46
1:C:1525:LEU:C	1:C:1528:SER:HG	2.15	0.46
1:C:1639:HIS:CB	1:C:1716:ALA:HB2	2.46	0.46
1:D:604:THR:HB	1:D:615:PHE:CE1	2.51	0.46
1:D:780:LEU:O	1:D:784:VAL:HG23	2.15	0.46
1:D:994:ASN:ND2	1:D:1040:LEU:HB3	2.30	0.46
1:B:536:PRO:HB2	1:B:538:ARG:O	2.15	0.46
1:B:577:MET:HA	1:B:577:MET:HE3	1.98	0.46
1:B:1622:HIS:HB3	1:B:1657:GLU:CD	2.41	0.46
1:B:1639:HIS:CB	1:B:1716:ALA:HB2	2.46	0.46
1:B:1988:ASN:O	1:B:1992:ILE:HG23	2.15	0.46
1:A:348:GLN:HG2	1:A:383:PHE:HZ	1.81	0.46
1:A:577:MET:HA	1:A:577:MET:HE3	1.98	0.46
1:C:577:MET:HE1	1:C:584:GLN:HB2	1.98	0.46
1:C:900:SER:HA	1:C:903:LEU:HB2	1.98	0.46
1:C:977:LEU:CD1	1:B:802:ARG:HH12	2.29	0.46
1:C:1437:LEU:O	1:C:1441:ARG:HG3	2.16	0.46
1:D:206:LEU:O	1:D:209:ARG:NH2	2.49	0.46
1:D:1622:HIS:HB3	1:D:1657:GLU:CD	2.40	0.46
1:B:1515:GLY:HA3	1:B:1602:ASN:OD1	2.16	0.46
1:A:900:SER:HA	1:A:903:LEU:HB2	1.98	0.46
1:A:1038:LEU:HA	1:A:1038:LEU:HD23	1.65	0.46
1:A:1622:HIS:HB3	1:A:1657:GLU:CD	2.41	0.46
1:C:336:ILE:O	1:C:400:HIS:HD2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1540:MET:HA	1:C:1543:ARG:CZ	2.46	0.46
1:D:536:PRO:HB2	1:D:538:ARG:O	2.15	0.46
1:D:574:VAL:N	1:D:602:ALA:O	2.38	0.46
1:D:909:HIS:CD2	1:D:910:GLU:HG3	2.51	0.46
1:B:54:LEU:HD23	1:B:59:VAL:HG21	1.98	0.46
1:B:334:PRO:O	1:B:400:HIS:NE2	2.49	0.46
1:B:1498:ASN:HD21	1:B:1501:ARG:NH1	2.14	0.46
1:A:909:HIS:CD2	1:A:910:GLU:HG3	2.51	0.45
1:A:1727:HIS:NE2	1:B:1734:PHE:HE2	2.14	0.45
1:C:111:ALA:HA	1:C:114:GLU:OE2	2.17	0.45
1:C:261:ILE:O	1:C:326:ILE:HA	2.16	0.45
1:C:287:ARG:H	1:C:335:ASP:HB3	1.81	0.45
1:C:909:HIS:CD2	1:C:910:GLU:HG3	2.51	0.45
1:C:1515:GLY:HA3	1:C:1602:ASN:OD1	2.16	0.45
1:D:245:GLU:O	1:D:247:CYS:N	2.49	0.45
1:D:261:ILE:O	1:D:326:ILE:HA	2.16	0.45
1:D:658:TRP:CE2	1:D:690:PRO:HD3	2.51	0.45
1:D:900:SER:HA	1:D:903:LEU:HB2	1.98	0.45
1:D:1409:ARG:O	1:D:1413:LEU:HB2	2.16	0.45
1:D:1498:ASN:HD21	1:D:1501:ARG:NH1	2.14	0.45
1:D:1639:HIS:CB	1:D:1716:ALA:HB2	2.46	0.45
1:D:1779:LEU:HD11	1:D:1822:ILE:HG22	1.98	0.45
1:B:1253:LEU:O	1:B:1257:VAL:HG23	2.16	0.45
1:B:1487:LEU:HA	1:B:1487:LEU:HD13	1.70	0.45
1:A:111:ALA:HA	1:A:114:GLU:OE2	2.17	0.45
1:A:138:THR:O	1:A:141:THR:OG1	2.28	0.45
1:A:576:TYR:HA	1:A:633:LEU:HA	1.98	0.45
1:A:1472:SER:O	1:A:1478:ARG:NH1	2.44	0.45
1:A:1627:VAL:HG12	1:A:1683:LEU:HD22	1.97	0.45
1:A:1903:GLU:HG3	1:A:1966:HIS:NE2	2.32	0.45
1:C:554:TYR:CE1	1:C:618:GLU:HA	2.52	0.45
1:C:604:THR:HB	1:C:615:PHE:CE1	2.51	0.45
1:C:658:TRP:CE2	1:C:690:PRO:HD3	2.51	0.45
1:C:984:HIS:CE1	1:C:985:LYS:HG3	2.50	0.45
1:C:1626:LEU:HB2	1:C:1657:GLU:OE2	2.15	0.45
1:C:1903:GLU:HG3	1:C:1966:HIS:NE2	2.31	0.45
1:C:1934:LEU:HD13	1:C:1984:ALA:HB3	1.97	0.45
1:D:554:TYR:CE1	1:D:618:GLU:HA	2.52	0.45
1:D:657:THR:HG21	1:D:707:PHE:CE2	2.50	0.45
1:D:835:TYR:CD1	1:D:839:ALA:HB3	2.50	0.45
1:D:1166:LEU:HD13	1:D:1166:LEU:HA	1.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1707:TYR:CD1	1:D:1726:VAL:HG13	2.51	0.45
1:D:1903:GLU:HG3	1:D:1966:HIS:NE2	2.32	0.45
1:B:548:ARG:CZ	1:B:548:ARG:HB2	2.46	0.45
1:B:900:SER:HA	1:B:903:LEU:HB2	1.98	0.45
1:B:1409:ARG:O	1:B:1413:LEU:HB2	2.16	0.45
1:B:1472:SER:OG	1:B:1474:ILE:N	2.38	0.45
1:B:1492:ASN:HD22	1:B:1495:ILE:HD11	1.82	0.45
1:A:245:GLU:O	1:A:247:CYS:N	2.49	0.45
1:A:334:PRO:O	1:A:400:HIS:NE2	2.49	0.45
1:A:577:MET:HE1	1:A:584:GLN:HB2	1.98	0.45
1:A:819:LEU:HD13	1:A:831:GLN:OE1	2.16	0.45
1:A:1499:PHE:CD1	1:A:1503:LYS:HE3	2.52	0.45
1:A:1639:HIS:CB	1:A:1716:ALA:HB2	2.46	0.45
1:A:1681:LEU:HA	1:A:1684:VAL:HG22	1.99	0.45
1:C:1253:LEU:O	1:C:1257:VAL:HG23	2.17	0.45
1:C:1492:ASN:HD22	1:C:1495:ILE:HD11	1.82	0.45
1:C:1622:HIS:HB3	1:C:1657:GLU:CD	2.41	0.45
1:C:1681:LEU:HA	1:C:1684:VAL:HG22	1.99	0.45
1:D:111:ALA:HA	1:D:114:GLU:OE2	2.17	0.45
1:D:277:ILE:HG12	1:D:344:LYS:HG2	1.97	0.45
1:D:485:LEU:HD22	1:D:488:ARG:NH1	2.31	0.45
1:D:617:GLU:HG2	1:D:619:PHE:CZ	2.51	0.45
1:D:911:GLU:H	1:D:911:GLU:CD	2.19	0.45
1:D:1154:GLU:OE1	1:D:1157:VAL:N	2.34	0.45
1:D:1492:ASN:HD22	1:D:1495:ILE:HD11	1.82	0.45
1:B:220:GLU:HA	1:B:223:ARG:NH2	2.30	0.45
1:B:235:TYR:OH	1:B:1251:ARG:HG3	2.16	0.45
1:B:348:GLN:HG2	1:B:383:PHE:HZ	1.81	0.45
1:B:460:PHE:HB3	1:B:489:LEU:HD22	1.99	0.45
1:B:693:ALA:HB2	1:B:703:HIS:NE2	2.32	0.45
1:B:1540:MET:HA	1:B:1543:ARG:CZ	2.46	0.45
1:B:1630:TYR:HA	1:B:1633:LEU:HD12	1.98	0.45
1:A:277:ILE:HG12	1:A:344:LYS:HG2	1.97	0.45
1:A:604:THR:HB	1:A:615:PHE:CE1	2.51	0.45
1:A:617:GLU:HG2	1:A:619:PHE:CZ	2.51	0.45
1:A:780:LEU:O	1:A:784:VAL:HG23	2.16	0.45
1:A:1253:LEU:O	1:A:1257:VAL:HG23	2.16	0.45
1:A:1404:MET:HE3	1:A:1404:MET:HB3	1.79	0.45
1:A:1753:ARG:HH22	1:A:1821:GLN:HG2	1.81	0.45
1:C:281:LEU:HG	1:C:298:PHE:CE2	2.52	0.45
1:C:340:ILE:H	1:C:397:THR:HG22	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:819:LEU:HD13	1:C:831:GLN:OE1	2.16	0.45
1:C:1498:ASN:HD21	1:C:1501:ARG:NH1	2.14	0.45
1:D:223:ARG:O	1:D:227:ARG:NH1	2.50	0.45
1:D:235:TYR:OH	1:D:1251:ARG:HG3	2.16	0.45
1:D:577:MET:HE1	1:D:584:GLN:HB2	1.98	0.45
1:D:1045:THR:HG21	1:D:1116:GLU:HG3	1.98	0.45
1:D:1447:PHE:HE2	1:D:1450:LEU:HB2	1.78	0.45
1:D:1950:ALA:HB2	1:D:1974:PHE:CZ	2.52	0.45
1:B:111:ALA:HA	1:B:114:GLU:OE2	2.17	0.45
1:B:128:GLN:HG2	1:B:134:TYR:CE2	2.51	0.45
1:B:244:VAL:HA	1:B:1046:ARG:NH2	2.32	0.45
1:B:281:LEU:HG	1:B:298:PHE:CE2	2.52	0.45
1:B:819:LEU:HD13	1:B:831:GLN:OE1	2.16	0.45
1:B:1681:LEU:O	1:B:1684:VAL:HG22	2.16	0.45
1:B:1779:LEU:HD11	1:B:1822:ILE:HG22	1.98	0.45
1:A:84:GLU:O	1:A:124:HIS:N	2.47	0.45
1:A:223:ARG:O	1:A:227:ARG:NH1	2.50	0.45
1:A:244:VAL:HA	1:A:1046:ARG:NH2	2.32	0.45
1:A:483:SER:H	1:A:486:LEU:HB2	1.82	0.45
1:A:693:ALA:HB2	1:A:703:HIS:NE2	2.32	0.45
1:A:1446:LYS:HA	1:A:1446:LYS:HD3	1.79	0.45
1:A:1540:MET:HA	1:A:1543:ARG:CZ	2.46	0.45
1:C:128:GLN:HG2	1:C:134:TYR:CE2	2.52	0.45
1:C:206:LEU:HD22	1:C:1487:LEU:HD21	1.99	0.45
1:C:536:PRO:HB2	1:C:538:ARG:O	2.15	0.45
1:C:1403:VAL:O	1:C:1406:SER:N	2.44	0.45
1:D:334:PRO:O	1:D:400:HIS:NE2	2.49	0.45
1:D:344:LYS:N	1:D:392:MET:O	2.38	0.45
1:D:1038:LEU:HD23	1:D:1038:LEU:HA	1.65	0.45
1:B:326:ILE:O	1:B:531:GLU:HA	2.17	0.45
1:B:485:LEU:HD22	1:B:488:ARG:NH1	2.31	0.45
1:B:658:TRP:CE2	1:B:690:PRO:HD3	2.51	0.45
1:B:1284:LEU:HD23	1:B:1285:LEU:HD22	1.98	0.45
1:B:1950:ALA:HB2	1:B:1974:PHE:CZ	2.52	0.45
1:A:128:GLN:HG2	1:A:134:TYR:CE2	2.52	0.45
1:A:289:LYS:O	1:A:290:LYS:HG3	2.17	0.45
1:A:326:ILE:O	1:A:531:GLU:HA	2.17	0.45
1:A:548:ARG:CZ	1:A:548:ARG:HB2	2.46	0.45
1:A:1409:ARG:O	1:A:1413:LEU:HB2	2.16	0.45
1:C:245:GLU:OE2	1:C:826:ARG:HB3	2.17	0.45
1:C:460:PHE:HB3	1:C:489:LEU:HD22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:693:ALA:HB2	1:C:703:HIS:NE2	2.32	0.45
1:C:1300:LYS:HZ2	1:C:1374:MET:HB3	1.82	0.45
1:C:1431:LEU:HG	1:C:1435:HIS:HE1	1.82	0.45
1:D:244:VAL:HA	1:D:1046:ARG:NH2	2.32	0.45
1:D:819:LEU:HD13	1:D:831:GLN:OE1	2.16	0.45
1:D:1253:LEU:O	1:D:1257:VAL:HG23	2.16	0.45
1:B:107:ALA:HB3	1:B:732:HIS:NE2	2.32	0.45
1:B:312:HIS:CB	1:B:389:ARG:HB2	2.45	0.45
1:B:320:THR:OG1	1:B:595:CYS:O	2.26	0.45
1:B:577:MET:HE1	1:B:584:GLN:HB2	1.98	0.45
1:B:617:GLU:HG2	1:B:619:PHE:CZ	2.51	0.45
1:B:909:HIS:CD2	1:B:910:GLU:HG3	2.51	0.45
1:B:1499:PHE:CD1	1:B:1503:LYS:HE3	2.52	0.45
1:B:1903:GLU:HG3	1:B:1966:HIS:NE2	2.31	0.45
1:A:281:LEU:HG	1:A:298:PHE:CE2	2.52	0.45
1:A:633:LEU:HB3	1:A:635:PHE:CE1	2.52	0.45
1:A:730:LEU:HD21	1:A:756:GLU:HG3	1.99	0.45
1:A:1515:GLY:HA3	1:A:1602:ASN:OD1	2.16	0.45
1:A:1731:GLN:OE1	1:B:1724:ALA:O	2.34	0.45
1:C:483:SER:H	1:C:486:LEU:HB2	1.82	0.45
1:C:609:HIS:O	1:C:610:ASN:ND2	2.50	0.45
1:C:617:GLU:HG2	1:C:619:PHE:CZ	2.51	0.45
1:C:1160:ARG:O	1:C:1163:GLU:HB2	2.17	0.45
1:C:1630:TYR:HA	1:C:1633:LEU:HD12	1.98	0.45
1:C:1738:MET:HG3	1:D:1721:LYS:CA	2.44	0.45
1:D:348:GLN:HG2	1:D:383:PHE:HZ	1.81	0.45
1:D:548:ARG:CZ	1:D:548:ARG:HB2	2.46	0.45
1:D:693:ALA:HB2	1:D:703:HIS:NE2	2.32	0.45
1:D:1431:LEU:HG	1:D:1435:HIS:HE1	1.82	0.45
1:D:1720:TYR:HA	1:D:1723:LEU:HD12	1.97	0.45
1:D:1804:ASP:N	1:D:1804:ASP:OD1	2.48	0.45
1:B:289:LYS:O	1:B:290:LYS:HG3	2.17	0.45
1:B:835:TYR:CD1	1:B:839:ALA:HB3	2.50	0.45
1:B:1160:ARG:O	1:B:1163:GLU:HB2	2.17	0.45
1:B:1947:LEU:HB2	1:B:2010:LEU:CD1	2.47	0.45
1:A:554:TYR:CE1	1:A:618:GLU:HA	2.52	0.45
1:A:636:THR:HG21	1:A:638:TYR:CZ	2.52	0.45
1:A:1431:LEU:HG	1:A:1435:HIS:HE1	1.82	0.45
1:A:1492:ASN:HD22	1:A:1495:ILE:HD11	1.82	0.45
1:C:245:GLU:O	1:C:247:CYS:N	2.49	0.45
1:C:289:LYS:O	1:C:290:LYS:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:405:VAL:HG22	1:C:449:PHE:CD1	2.52	0.45
1:C:704:LYS:HG2	1:C:706:VAL:HG13	1.98	0.45
1:C:1499:PHE:CD1	1:C:1503:LYS:HE3	2.52	0.45
1:D:206:LEU:HD22	1:D:1487:LEU:HD21	1.99	0.45
1:D:254:ARG:NH1	1:D:256:HIS:HA	2.32	0.45
1:D:281:LEU:HG	1:D:298:PHE:CE2	2.52	0.45
1:D:460:PHE:HB3	1:D:489:LEU:HD22	1.99	0.45
1:D:730:LEU:HD21	1:D:756:GLU:HG3	1.99	0.45
1:B:206:LEU:HD22	1:B:1487:LEU:HD21	1.99	0.45
1:B:633:LEU:HB3	1:B:635:PHE:CE1	2.52	0.45
1:B:636:THR:HG21	1:B:638:TYR:CZ	2.52	0.45
1:A:206:LEU:HD22	1:A:1487:LEU:HD21	1.99	0.45
1:A:1632:ALA:HA	1:A:1635:GLU:O	2.17	0.45
1:C:223:ARG:O	1:C:227:ARG:NH1	2.50	0.45
1:C:306:LYS:O	1:C:310:ARG:NE	2.40	0.45
1:C:326:ILE:O	1:C:531:GLU:HA	2.17	0.45
1:C:633:LEU:HB3	1:C:635:PHE:CE1	2.52	0.45
1:C:636:THR:HG21	1:C:638:TYR:CZ	2.52	0.45
1:C:1499:PHE:O	1:C:1503:LYS:HG2	2.17	0.45
1:C:1510:LEU:HD13	1:C:1558:LEU:HD22	1.99	0.45
1:D:245:GLU:OE2	1:D:826:ARG:HB3	2.17	0.45
1:D:1499:PHE:CD1	1:D:1503:LYS:HE3	2.52	0.45
1:B:206:LEU:O	1:B:209:ARG:NH2	2.49	0.45
1:B:245:GLU:OE2	1:B:826:ARG:HB3	2.17	0.45
1:B:261:ILE:O	1:B:326:ILE:HA	2.16	0.45
1:B:287:ARG:H	1:B:335:ASP:HB3	1.81	0.45
1:B:554:TYR:CE1	1:B:618:GLU:HA	2.52	0.45
1:B:704:LYS:HG2	1:B:706:VAL:HG13	1.98	0.45
1:B:1431:LEU:HG	1:B:1435:HIS:HE1	1.82	0.45
1:B:1499:PHE:O	1:B:1503:LYS:HG2	2.17	0.45
1:B:1787:GLU:O	1:B:1791:THR:OG1	2.22	0.45
1:A:1045:THR:HG21	1:A:1116:GLU:HG3	1.98	0.45
1:A:1720:TYR:HA	1:A:1723:LEU:HD12	1.97	0.45
1:A:1720:TYR:CA	1:A:1723:LEU:HB2	2.41	0.45
1:A:1728:GLY:O	1:A:1731:GLN:HB3	2.17	0.45
1:C:244:VAL:HA	1:C:1046:ARG:NH2	2.32	0.45
1:C:1001:LEU:HD12	1:C:1044:PHE:CZ	2.48	0.45
1:C:1632:ALA:HA	1:C:1635:GLU:O	2.17	0.45
1:D:1476:THR:C	1:D:1480:HIS:HD1	2.17	0.45
1:D:1681:LEU:HA	1:D:1684:VAL:HG22	1.99	0.45
1:B:1632:ALA:HA	1:B:1635:GLU:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1681:LEU:HA	1:B:1684:VAL:HG22	1.99	0.45
1:A:107:ALA:HB3	1:A:732:HIS:NE2	2.32	0.44
1:A:138:THR:HG23	1:A:141:THR:H	1.82	0.44
1:A:460:PHE:HB3	1:A:489:LEU:HD22	1.99	0.44
1:A:609:HIS:O	1:A:610:ASN:ND2	2.50	0.44
1:A:1437:LEU:O	1:A:1441:ARG:HG3	2.16	0.44
1:A:1630:TYR:HA	1:A:1633:LEU:HD12	1.98	0.44
1:A:1947:LEU:HB2	1:A:2010:LEU:CD1	2.47	0.44
1:A:1950:ALA:HB2	1:A:1974:PHE:CE2	2.52	0.44
1:C:84:GLU:O	1:C:124:HIS:N	2.47	0.44
1:C:138:THR:HG23	1:C:141:THR:H	1.82	0.44
1:C:206:LEU:O	1:C:209:ARG:NH2	2.49	0.44
1:C:1045:THR:HG21	1:C:1116:GLU:HG3	1.98	0.44
1:C:1406:SER:OG	1:C:1407:GLU:N	2.51	0.44
1:C:1409:ARG:O	1:C:1413:LEU:HB2	2.16	0.44
1:C:1681:LEU:O	1:C:1684:VAL:HG22	2.16	0.44
1:C:1721:LYS:HA	1:D:1738:MET:HG3	1.99	0.44
1:C:1950:ALA:HB2	1:C:1974:PHE:CZ	2.52	0.44
1:D:289:LYS:O	1:D:290:LYS:HG3	2.17	0.44
1:D:326:ILE:O	1:D:531:GLU:HA	2.17	0.44
1:D:663:GLN:HE21	1:D:744:LYS:NZ	2.15	0.44
1:D:1284:LEU:HD23	1:D:1285:LEU:HD22	1.98	0.44
1:D:1394:ASP:O	1:D:1398:ILE:HG12	2.18	0.44
1:D:1476:THR:HA	1:D:1479:THR:HG22	1.99	0.44
1:D:1540:MET:HA	1:D:1543:ARG:CZ	2.46	0.44
1:D:1594:ASP:O	1:D:1598:THR:HG23	2.17	0.44
1:D:1681:LEU:O	1:D:1684:VAL:HG22	2.16	0.44
1:D:1947:LEU:HB2	1:D:2010:LEU:CD1	2.47	0.44
1:B:254:ARG:NH1	1:B:256:HIS:HA	2.32	0.44
1:B:574:VAL:N	1:B:602:ALA:O	2.38	0.44
1:B:1406:SER:OG	1:B:1407:GLU:N	2.51	0.44
1:B:1855:PRO:HA	1:B:1871:LYS:HA	1.99	0.44
1:B:1950:ALA:HB2	1:B:1974:PHE:CE2	2.52	0.44
1:A:551:LEU:HD12	1:A:552:TYR:H	1.82	0.44
1:A:633:LEU:HB3	1:A:635:PHE:HE1	1.82	0.44
1:A:1499:PHE:O	1:A:1503:LYS:HG2	2.17	0.44
1:A:1525:LEU:C	1:A:1528:SER:HG	2.18	0.44
1:A:1647:PHE:HB2	1:A:1654:VAL:HG21	2.00	0.44
1:A:1681:LEU:O	1:A:1684:VAL:HG22	2.16	0.44
1:A:1779:LEU:HD11	1:A:1822:ILE:HG22	1.98	0.44
1:A:1855:PRO:HA	1:A:1871:LYS:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1855:PRO:HA	1:C:1871:LYS:HA	1.99	0.44
1:C:1947:LEU:HB2	1:C:2010:LEU:CD1	2.47	0.44
1:D:128:GLN:HG2	1:D:134:TYR:CE2	2.52	0.44
1:D:405:VAL:HG22	1:D:449:PHE:CD1	2.52	0.44
1:D:483:SER:H	1:D:486:LEU:HB2	1.82	0.44
1:D:609:HIS:O	1:D:610:ASN:ND2	2.50	0.44
1:D:636:THR:HG21	1:D:638:TYR:CZ	2.52	0.44
1:D:1292:LEU:HD23	1:D:1292:LEU:HA	1.60	0.44
1:D:1406:SER:OG	1:D:1407:GLU:N	2.51	0.44
1:D:1630:TYR:HA	1:D:1633:LEU:HD12	1.98	0.44
1:D:1728:GLY:O	1:D:1731:GLN:HB3	2.18	0.44
1:A:1160:ARG:O	1:A:1163:GLU:HB2	2.17	0.44
1:C:567:VAL:HG11	1:C:654:VAL:HB	1.99	0.44
1:C:1728:GLY:O	1:C:1731:GLN:HB3	2.17	0.44
1:C:1779:LEU:HD11	1:C:1822:ILE:HG22	1.98	0.44
1:D:783:LEU:O	1:D:786:LEU:HB3	2.18	0.44
1:D:1499:PHE:O	1:D:1503:LYS:HG2	2.17	0.44
1:B:245:GLU:O	1:B:247:CYS:N	2.49	0.44
1:B:1394:ASP:O	1:B:1398:ILE:HG12	2.17	0.44
1:B:1476:THR:HA	1:B:1479:THR:HG22	1.99	0.44
1:B:1510:LEU:HD13	1:B:1558:LEU:HD22	1.99	0.44
1:B:1594:ASP:O	1:B:1598:THR:HG23	2.17	0.44
1:A:127:TYR:HA	1:A:129:TYR:CE1	2.53	0.44
1:A:800:LEU:HG	1:A:800:LEU:O	2.17	0.44
1:A:1162:ALA:C	1:A:1164:LEU:N	2.76	0.44
1:A:1179:LEU:HD12	1:A:1245:LEU:HD22	1.99	0.44
1:A:1738:MET:HG3	1:B:1721:LYS:HA	1.98	0.44
1:C:93:ARG:NH1	1:C:257:PHE:HE1	2.16	0.44
1:C:107:ALA:HB3	1:C:732:HIS:NE2	2.32	0.44
1:C:730:LEU:HD21	1:C:756:GLU:HG3	1.99	0.44
1:C:1176:LEU:HA	1:C:1176:LEU:HD12	1.76	0.44
1:C:1292:LEU:HA	1:C:1292:LEU:HD23	1.60	0.44
1:C:1950:ALA:HB2	1:C:1974:PHE:CE2	2.52	0.44
1:D:107:ALA:HB3	1:D:732:HIS:NE2	2.32	0.44
1:D:109:VAL:HG13	1:D:717:VAL:HG21	1.99	0.44
1:D:800:LEU:HG	1:D:800:LEU:O	2.17	0.44
1:D:1142:LEU:HD12	1:D:1146:HIS:HE1	1.83	0.44
1:D:1154:GLU:OE1	1:D:1156:THR:N	2.51	0.44
1:D:1502:VAL:O	1:D:1503:LYS:C	2.60	0.44
1:D:1515:GLY:HA3	1:D:1602:ASN:OD1	2.16	0.44
1:D:1632:ALA:HA	1:D:1635:GLU:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1647:PHE:HB2	1:D:1654:VAL:HG21	2.00	0.44
1:B:551:LEU:HD12	1:B:552:TYR:H	1.83	0.44
1:B:607:VAL:HG12	1:B:610:ASN:HB2	2.00	0.44
1:B:632:HIS:NE2	1:B:634:LEU:HB2	2.33	0.44
1:B:664:HIS:CE1	1:B:744:LYS:HA	2.53	0.44
1:B:946:LEU:HD21	1:B:960:PHE:HE1	1.83	0.44
1:A:783:LEU:O	1:A:786:LEU:HB3	2.18	0.44
1:A:1502:VAL:O	1:A:1503:LYS:C	2.60	0.44
1:A:1626:LEU:HB2	1:A:1657:GLU:OE2	2.15	0.44
1:A:1684:VAL:O	1:A:1688:GLU:HG3	2.18	0.44
1:A:1771:TYR:CD1	1:A:1888:ARG:HB3	2.53	0.44
1:C:589:ILE:HG21	1:C:602:ALA:HB2	1.99	0.44
1:C:632:HIS:NE2	1:C:634:LEU:HB2	2.33	0.44
1:C:652:THR:HG23	1:C:654:VAL:HG13	2.00	0.44
1:C:1058:ASN:ND2	1:C:1110:ALA:H	2.16	0.44
1:C:1594:ASP:O	1:C:1598:THR:HG23	2.17	0.44
1:C:1771:TYR:CD1	1:C:1888:ARG:HB3	2.53	0.44
1:C:1975:LYS:HE2	1:C:2018:LEU:HD13	1.99	0.44
1:D:138:THR:HG23	1:D:141:THR:H	1.83	0.44
1:D:567:VAL:HG11	1:D:654:VAL:HB	1.99	0.44
1:D:704:LYS:HG2	1:D:706:VAL:HG13	1.98	0.44
1:D:1707:TYR:CD1	1:D:1710:LEU:HD23	2.53	0.44
1:B:109:VAL:HG13	1:B:717:VAL:HG21	1.99	0.44
1:B:483:SER:H	1:B:486:LEU:HB2	1.82	0.44
1:B:609:HIS:O	1:B:610:ASN:ND2	2.50	0.44
1:B:663:GLN:HE21	1:B:744:LYS:NZ	2.15	0.44
1:B:1142:LEU:HD12	1:B:1146:HIS:HE1	1.83	0.44
1:B:1707:TYR:CD1	1:B:1710:LEU:HD23	2.53	0.44
1:A:93:ARG:NH1	1:A:257:PHE:HE1	2.16	0.44
1:A:567:VAL:HG11	1:A:654:VAL:HB	1.99	0.44
1:A:663:GLN:HE21	1:A:744:LYS:NZ	2.15	0.44
1:A:704:LYS:HG2	1:A:706:VAL:HG13	1.98	0.44
1:A:1154:GLU:OE1	1:A:1157:VAL:N	2.34	0.44
1:C:633:LEU:HB3	1:C:635:PHE:HE1	1.82	0.44
1:C:663:GLN:HE21	1:C:744:LYS:NZ	2.15	0.44
1:C:946:LEU:HD21	1:C:960:PHE:HE1	1.83	0.44
1:D:287:ARG:H	1:D:335:ASP:HB3	1.81	0.44
1:D:664:HIS:CE1	1:D:744:LYS:HA	2.53	0.44
1:B:127:TYR:HA	1:B:129:TYR:CE1	2.53	0.44
1:B:138:THR:HG23	1:B:141:THR:H	1.82	0.44
1:B:301:ASN:O	1:B:306:LYS:HE3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:652:THR:HG23	1:B:654:VAL:HG13	2.00	0.44
1:B:1167:PRO:O	1:B:1170:SER:N	2.51	0.44
1:B:1179:LEU:HD12	1:B:1245:LEU:HD22	1.99	0.44
1:A:254:ARG:NH1	1:A:256:HIS:HA	2.32	0.44
1:A:1594:ASP:O	1:A:1598:THR:HG23	2.17	0.44
1:A:1975:LYS:HE2	1:A:2018:LEU:HD13	1.99	0.44
1:C:251:GLU:OE2	1:C:254:ARG:HD2	2.18	0.44
1:C:607:VAL:HG12	1:C:610:ASN:HB2	2.00	0.44
1:C:1008:VAL:HG12	1:C:1009:ASP:H	1.83	0.44
1:C:1264:THR:HB	1:C:1269:LEU:HD11	2.00	0.44
1:C:1404:MET:HE3	1:C:1404:MET:HB3	1.79	0.44
1:D:251:GLU:OE2	1:D:254:ARG:HD2	2.18	0.44
1:D:589:ILE:HG21	1:D:602:ALA:HB2	1.99	0.44
1:D:946:LEU:HD21	1:D:960:PHE:HE1	1.83	0.44
1:D:1058:ASN:ND2	1:D:1110:ALA:H	2.16	0.44
1:B:223:ARG:O	1:B:227:ARG:NH1	2.50	0.44
1:B:405:VAL:HG22	1:B:449:PHE:CD1	2.52	0.44
1:B:1258:LEU:HD12	1:B:1391:VAL:HG23	2.00	0.44
1:B:1728:GLY:O	1:B:1731:GLN:HB3	2.17	0.44
1:B:1809:ASP:OD1	1:B:1810:LYS:N	2.51	0.44
1:A:245:GLU:OE2	1:A:826:ARG:HB3	2.17	0.44
1:A:287:ARG:H	1:A:335:ASP:HB3	1.81	0.44
1:A:405:VAL:HG22	1:A:449:PHE:CD1	2.52	0.44
1:A:467:LEU:HD21	1:A:475:PHE:CD2	2.52	0.44
1:A:1163:GLU:O	1:A:1166:LEU:HD23	2.18	0.44
1:C:664:HIS:CE1	1:C:744:LYS:HA	2.53	0.44
1:C:1432:PHE:O	1:C:1435:HIS:N	2.51	0.44
1:C:1564:ASP:OD1	1:C:1565:THR:N	2.51	0.44
1:C:1809:ASP:OD1	1:C:1810:LYS:N	2.51	0.44
1:D:301:ASN:O	1:D:306:LYS:HE3	2.18	0.44
1:D:551:LEU:HD12	1:D:552:TYR:H	1.82	0.44
1:D:633:LEU:HB3	1:D:635:PHE:HE1	1.82	0.44
1:D:1432:PHE:O	1:D:1435:HIS:N	2.51	0.44
1:D:1854:THR:OG1	1:D:1854:THR:O	2.33	0.44
1:D:1880:HIS:H	1:D:1889:ILE:CG1	2.28	0.44
1:B:730:LEU:HD21	1:B:756:GLU:HG3	1.99	0.44
1:B:769:PRO:HG2	1:B:770:GLU:OE2	2.18	0.44
1:A:544:HIS:ND1	1:A:774:ALA:HB1	2.33	0.44
1:A:1008:VAL:HG12	1:A:1009:ASP:H	1.83	0.44
1:A:1264:THR:HB	1:A:1269:LEU:HD11	2.00	0.44
1:A:1432:PHE:O	1:A:1435:HIS:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1510:LEU:HD13	1:A:1558:LEU:HD22	1.99	0.44
1:A:1595:LEU:O	1:A:1598:THR:OG1	2.26	0.44
1:C:109:VAL:HG13	1:C:717:VAL:HG21	1.99	0.44
1:C:548:ARG:CZ	1:C:548:ARG:HB2	2.46	0.44
1:C:783:LEU:O	1:C:786:LEU:HB3	2.18	0.44
1:C:1684:VAL:O	1:C:1688:GLU:HG3	2.18	0.44
1:D:217:ARG:HH22	1:D:218:ARG:HB2	1.83	0.44
1:D:1160:ARG:O	1:D:1163:GLU:HB2	2.17	0.44
1:D:1163:GLU:O	1:D:1166:LEU:HD23	2.18	0.44
1:B:1147:ASP:OD1	1:B:1259:TRP:NE1	2.34	0.44
1:B:1539:ASP:OD2	1:B:1542:LEU:HB2	2.18	0.44
1:B:1838:VAL:O	1:B:1843:ARG:NH1	2.48	0.44
1:A:109:VAL:HG13	1:A:717:VAL:HG21	1.99	0.43
1:A:467:LEU:HD11	1:A:475:PHE:CE2	2.53	0.43
1:A:1005:LEU:HD23	1:A:1005:LEU:HA	1.79	0.43
1:A:1042:MET:O	1:A:1045:THR:OG1	2.34	0.43
1:A:1142:LEU:HD12	1:A:1146:HIS:HE1	1.83	0.43
1:A:1258:LEU:HD12	1:A:1391:VAL:HG23	2.00	0.43
1:A:1753:ARG:HG3	1:A:1768:GLU:CD	2.43	0.43
1:A:1950:ALA:HB2	1:A:1974:PHE:CZ	2.52	0.43
1:C:1163:GLU:O	1:C:1166:LEU:HD23	2.18	0.43
1:C:1707:TYR:CD1	1:C:1710:LEU:HD23	2.53	0.43
1:C:1711:ILE:HD12	1:C:1711:ILE:H	1.83	0.43
1:D:127:TYR:HA	1:D:129:TYR:CE1	2.53	0.43
1:D:553:VAL:HG11	1:D:635:PHE:CZ	2.53	0.43
1:D:607:VAL:HG12	1:D:610:ASN:HB2	2.00	0.43
1:D:633:LEU:HB3	1:D:635:PHE:CE1	2.52	0.43
1:D:663:GLN:N	1:D:666:ARG:O	2.51	0.43
1:D:769:PRO:HG2	1:D:770:GLU:OE2	2.18	0.43
1:D:1248:GLU:HA	1:D:1251:ARG:HG2	2.00	0.43
1:D:1838:VAL:O	1:D:1843:ARG:NH1	2.48	0.43
1:D:1855:PRO:HA	1:D:1871:LYS:HA	1.99	0.43
1:D:1950:ALA:HB2	1:D:1974:PHE:CE2	2.52	0.43
1:D:2015:GLN:O	1:D:2019:THR:N	2.44	0.43
1:B:783:LEU:O	1:B:786:LEU:HB3	2.18	0.43
1:B:1432:PHE:O	1:B:1435:HIS:N	2.51	0.43
1:B:1472:SER:OG	1:B:1477:ILE:HD12	2.18	0.43
1:B:1564:ASP:OD1	1:B:1565:THR:N	2.51	0.43
1:B:1603:MET:C	1:B:1607:HIS:HD1	2.18	0.43
1:B:1647:PHE:HB2	1:B:1654:VAL:HG21	2.00	0.43
1:B:1702:ALA:O	1:B:1706:VAL:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1880:HIS:H	1:B:1889:ILE:CG1	2.28	0.43
1:A:283:LEU:HD23	1:A:283:LEU:HA	1.84	0.43
1:A:652:THR:HG23	1:A:654:VAL:HG13	2.00	0.43
1:A:743:LEU:HD11	1:A:748:LEU:HD21	2.00	0.43
1:A:1406:SER:OG	1:A:1407:GLU:N	2.51	0.43
1:A:1468:ARG:HE	1:A:1513:LEU:HD13	1.83	0.43
1:A:1476:THR:HA	1:A:1479:THR:HG22	1.99	0.43
1:A:1564:ASP:OD1	1:A:1565:THR:N	2.51	0.43
1:A:1597:LEU:HA	1:A:1600:LEU:HD12	2.00	0.43
1:C:467:LEU:HD21	1:C:475:PHE:CD2	2.52	0.43
1:C:1753:ARG:HG3	1:C:1768:GLU:CD	2.43	0.43
1:D:652:THR:HG23	1:D:654:VAL:HG13	2.00	0.43
1:D:1414:GLY:HA2	1:D:1450:LEU:HD21	2.00	0.43
1:D:1472:SER:OG	1:D:1477:ILE:HD12	2.18	0.43
1:D:1502:VAL:O	1:D:1506:VAL:HG23	2.18	0.43
1:D:1510:LEU:HD13	1:D:1558:LEU:HD22	1.99	0.43
1:D:1597:LEU:HA	1:D:1600:LEU:HD12	2.00	0.43
1:B:567:VAL:HG11	1:B:654:VAL:HB	1.99	0.43
1:B:633:LEU:HB3	1:B:635:PHE:HE1	1.82	0.43
1:B:1264:THR:HB	1:B:1269:LEU:HD11	2.00	0.43
1:B:1502:VAL:O	1:B:1503:LYS:C	2.60	0.43
1:B:1856:PHE:HA	1:B:1862:ALA:O	2.18	0.43
1:A:1154:GLU:OE1	1:A:1156:THR:N	2.51	0.43
1:A:1711:ILE:HD12	1:A:1711:ILE:H	1.83	0.43
1:A:1802:ILE:CG2	1:A:1808:VAL:HG21	2.48	0.43
1:A:1809:ASP:OD1	1:A:1810:LYS:N	2.51	0.43
1:C:127:TYR:HA	1:C:129:TYR:CE1	2.53	0.43
1:C:800:LEU:O	1:C:800:LEU:HG	2.17	0.43
1:C:1167:PRO:O	1:C:1170:SER:N	2.51	0.43
1:C:1539:ASP:OD2	1:C:1542:LEU:HB2	2.18	0.43
1:C:1720:TYR:CA	1:C:1723:LEU:HB2	2.41	0.43
1:C:1738:MET:HA	1:C:1741:SER:OG	2.18	0.43
1:D:93:ARG:NH1	1:D:257:PHE:HE1	2.16	0.43
1:D:632:HIS:NE2	1:D:634:LEU:HB2	2.33	0.43
1:B:293:SER:HB2	1:B:327:PHE:HE1	1.83	0.43
1:B:553:VAL:HG11	1:B:635:PHE:CZ	2.53	0.43
1:B:1154:GLU:OE1	1:B:1156:THR:N	2.51	0.43
1:B:1248:GLU:HA	1:B:1251:ARG:HG2	2.00	0.43
1:B:1565:THR:O	1:B:1568:MET:HB3	2.18	0.43
1:B:1975:LYS:HE2	1:B:2018:LEU:HD13	1.99	0.43
1:A:251:GLU:OE2	1:A:254:ARG:HD2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:607:VAL:HG12	1:A:610:ASN:HB2	2.00	0.43
1:A:1058:ASN:ND2	1:A:1110:ALA:H	2.16	0.43
1:A:1147:ASP:OD1	1:A:1259:TRP:NE1	2.34	0.43
1:A:1404:MET:SD	1:A:1404:MET:N	2.92	0.43
1:A:1414:GLY:HA2	1:A:1450:LEU:HD21	2.00	0.43
1:C:551:LEU:HD12	1:C:552:TYR:H	1.82	0.43
1:C:1476:THR:HA	1:C:1479:THR:HG22	1.99	0.43
1:C:1502:VAL:O	1:C:1506:VAL:HG23	2.18	0.43
1:C:1597:LEU:HA	1:C:1600:LEU:HD12	2.00	0.43
1:D:293:SER:HB2	1:D:327:PHE:HE1	1.84	0.43
1:D:772:LEU:O	1:D:776:SER:N	2.52	0.43
1:D:1008:VAL:HG12	1:D:1009:ASP:H	1.83	0.43
1:D:1162:ALA:C	1:D:1164:LEU:N	2.76	0.43
1:D:1564:ASP:OD1	1:D:1565:THR:N	2.51	0.43
1:D:1684:VAL:O	1:D:1688:GLU:HG3	2.18	0.43
1:D:1975:LYS:HE2	1:D:2018:LEU:HD13	1.99	0.43
1:D:1982:GLU:HB3	1:D:1986:ARG:NH2	2.34	0.43
1:B:1502:VAL:O	1:B:1506:VAL:HG23	2.18	0.43
1:B:1597:LEU:HA	1:B:1600:LEU:HD12	2.00	0.43
1:B:1771:TYR:CD1	1:B:1888:ARG:HB3	2.53	0.43
1:A:217:ARG:HH22	1:A:218:ARG:HB2	1.83	0.43
1:A:589:ILE:HG21	1:A:602:ALA:HB2	1.99	0.43
1:A:664:HIS:CE1	1:A:744:LYS:HA	2.53	0.43
1:A:1707:TYR:CD1	1:A:1710:LEU:HD23	2.53	0.43
1:C:743:LEU:HD11	1:C:748:LEU:HD21	2.00	0.43
1:C:1258:LEU:HD12	1:C:1391:VAL:HG23	2.00	0.43
1:C:1773:GLU:HG2	1:C:1777:THR:HB	2.01	0.43
1:C:1856:PHE:HA	1:C:1862:ALA:O	2.18	0.43
1:C:1885:ILE:HG13	1:C:1886:LYS:HG2	2.01	0.43
1:D:108:GLN:HE21	1:D:732:HIS:CB	2.32	0.43
1:D:544:HIS:ND1	1:D:774:ALA:HB1	2.33	0.43
1:D:749:SER:N	1:D:752:ASN:OD1	2.42	0.43
1:D:1176:LEU:HA	1:D:1176:LEU:HD12	1.76	0.43
1:D:1179:LEU:HD12	1:D:1245:LEU:HD22	1.99	0.43
1:D:1437:LEU:HA	1:D:1437:LEU:HD23	1.81	0.43
1:D:1539:ASP:OD2	1:D:1542:LEU:HB2	2.18	0.43
1:D:1603:MET:C	1:D:1607:HIS:HD1	2.18	0.43
1:D:1720:TYR:CA	1:D:1723:LEU:HB2	2.41	0.43
1:D:1771:TYR:CD1	1:D:1888:ARG:HB3	2.53	0.43
1:D:1856:PHE:HA	1:D:1862:ALA:O	2.18	0.43
1:B:217:ARG:HH22	1:B:218:ARG:HB2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:511:LEU:O	1:B:530:LYS:HA	2.19	0.43
1:B:800:LEU:HG	1:B:800:LEU:O	2.17	0.43
1:B:1281:LEU:O	1:B:1285:LEU:HD23	2.19	0.43
1:B:1409:ARG:CZ	1:B:1447:PHE:HB2	2.48	0.43
1:A:68:GLU:O	1:A:73:ARG:HD2	2.19	0.43
1:A:390:TYR:O	1:A:391:ARG:NH1	2.45	0.43
1:A:632:HIS:NE2	1:A:634:LEU:HB2	2.33	0.43
1:A:769:PRO:HG2	1:A:770:GLU:OE2	2.18	0.43
1:A:1167:PRO:O	1:A:1170:SER:N	2.51	0.43
1:C:254:ARG:NH1	1:C:256:HIS:HA	2.32	0.43
1:C:772:LEU:O	1:C:776:SER:N	2.52	0.43
1:C:802:ARG:HH12	1:B:977:LEU:HD11	1.82	0.43
1:C:1142:LEU:HD12	1:C:1146:HIS:HE1	1.83	0.43
1:C:1154:GLU:OE1	1:C:1156:THR:N	2.51	0.43
1:C:1162:ALA:C	1:C:1164:LEU:N	2.76	0.43
1:C:1281:LEU:O	1:C:1285:LEU:HD23	2.19	0.43
1:C:1647:PHE:HB2	1:C:1654:VAL:HG21	2.00	0.43
1:D:213:GLU:HA	1:D:216:ASP:OD2	2.18	0.43
1:D:467:LEU:HD21	1:D:475:PHE:CD2	2.52	0.43
1:D:511:LEU:O	1:D:530:LYS:HA	2.19	0.43
1:D:1702:ALA:O	1:D:1706:VAL:HG13	2.18	0.43
1:D:1711:ILE:HD12	1:D:1711:ILE:H	1.83	0.43
1:D:1738:MET:HA	1:D:1741:SER:OG	2.18	0.43
1:D:1773:GLU:HG2	1:D:1777:THR:HB	2.01	0.43
1:D:1809:ASP:OD1	1:D:1810:LYS:N	2.51	0.43
1:B:213:GLU:HA	1:B:216:ASP:OD2	2.18	0.43
1:B:544:HIS:ND1	1:B:774:ALA:HB1	2.33	0.43
1:B:1058:ASN:ND2	1:B:1110:ALA:H	2.16	0.43
1:B:1468:ARG:HE	1:B:1513:LEU:HD13	1.83	0.43
1:B:1533:LEU:HA	1:B:1555:MET:HE1	2.00	0.43
1:A:942:MET:HE3	1:A:964:PHE:HE2	1.84	0.43
1:A:1394:ASP:O	1:A:1398:ILE:HG12	2.17	0.43
1:A:1539:ASP:OD2	1:A:1542:LEU:HB2	2.18	0.43
1:A:1738:MET:HA	1:A:1741:SER:OG	2.18	0.43
1:C:769:PRO:HG2	1:C:770:GLU:OE2	2.18	0.43
1:C:954:THR:O	1:C:959:ARG:NE	2.51	0.43
1:C:1702:ALA:O	1:C:1706:VAL:HG13	2.18	0.43
1:C:1802:ILE:CG2	1:C:1808:VAL:HG21	2.48	0.43
1:C:1923:ASP:HA	1:C:1924:PRO:HA	1.88	0.43
1:C:1989:LYS:N	1:C:2000:HIS:CE1	2.86	0.43
1:C:2015:GLN:O	1:C:2019:THR:N	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:954:THR:O	1:D:959:ARG:NE	2.51	0.43
1:D:1264:THR:HB	1:D:1269:LEU:HD11	2.00	0.43
1:D:1409:ARG:CZ	1:D:1447:PHE:HB2	2.48	0.43
1:B:663:GLN:N	1:B:666:ARG:O	2.51	0.43
1:B:1753:ARG:HG3	1:B:1768:GLU:CD	2.43	0.43
1:B:1773:GLU:HG2	1:B:1777:THR:HB	2.01	0.43
1:B:1900:THR:O	1:B:1904:VAL:HG23	2.19	0.43
1:A:1409:ARG:CZ	1:A:1447:PHE:HB2	2.48	0.43
1:A:1472:SER:OG	1:A:1477:ILE:HD12	2.18	0.43
1:A:1502:VAL:O	1:A:1506:VAL:HG23	2.18	0.43
1:A:1930:LEU:HD23	1:A:1991:LEU:HD12	2.00	0.43
1:C:213:GLU:HA	1:C:216:ASP:OD2	2.18	0.43
1:C:326:ILE:HB	1:C:531:GLU:HA	2.01	0.43
1:C:553:VAL:HG11	1:C:635:PHE:CZ	2.53	0.43
1:C:672:PHE:N	1:C:709:VAL:O	2.32	0.43
1:C:1179:LEU:HD12	1:C:1245:LEU:HD22	1.99	0.43
1:C:1404:MET:N	1:C:1404:MET:SD	2.92	0.43
1:C:1707:TYR:CE1	1:C:1726:VAL:HG13	2.54	0.43
1:D:942:MET:HE3	1:D:964:PHE:HE2	1.84	0.43
1:D:1565:THR:O	1:D:1568:MET:HB3	2.18	0.43
1:B:93:ARG:NH1	1:B:257:PHE:HE1	2.16	0.43
1:B:589:ILE:HG21	1:B:602:ALA:HB2	1.99	0.43
1:B:1008:VAL:HG12	1:B:1009:ASP:H	1.83	0.43
1:B:1448:PRO:HD2	1:B:1449:GLU:CD	2.44	0.43
1:B:1738:MET:HA	1:B:1741:SER:OG	2.18	0.43
1:A:293:SER:HB2	1:A:327:PHE:HE1	1.83	0.43
1:A:511:LEU:O	1:A:530:LYS:HA	2.19	0.43
1:A:513:PRO:HG2	1:A:533:LEU:HG	2.01	0.43
1:A:632:HIS:HD2	1:A:658:TRP:HB2	1.84	0.43
1:A:772:LEU:O	1:A:776:SER:N	2.52	0.43
1:A:954:THR:O	1:A:959:ARG:NE	2.51	0.43
1:C:326:ILE:HD12	1:C:510:CYS:SG	2.59	0.43
1:C:1409:ARG:CZ	1:C:1447:PHE:HB2	2.48	0.43
1:C:1589:TYR:O	1:C:1592:SER:N	2.47	0.43
1:C:1597:LEU:CD2	1:C:1601:GLN:HE22	2.32	0.43
1:D:84:GLU:O	1:D:124:HIS:N	2.47	0.43
1:D:1167:PRO:O	1:D:1170:SER:N	2.51	0.43
1:D:1753:ARG:HG3	1:D:1768:GLU:CD	2.43	0.43
1:D:1826:GLU:HG2	1:D:1851:LEU:O	2.19	0.43
1:B:1414:GLY:HA2	1:B:1450:LEU:HD21	2.00	0.43
1:B:1525:LEU:C	1:B:1528:SER:HG	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1802:ILE:CG2	1:B:1808:VAL:HG21	2.49	0.43
1:B:1826:GLU:HG2	1:B:1851:LEU:O	2.19	0.43
1:A:108:GLN:HE21	1:A:732:HIS:CB	2.32	0.43
1:A:259:GLN:O	1:A:328:SER:HA	2.19	0.43
1:A:301:ASN:O	1:A:306:LYS:HE3	2.18	0.43
1:A:326:ILE:HD12	1:A:510:CYS:SG	2.59	0.43
1:A:1300:LYS:HA	1:A:1300:LYS:HD3	1.78	0.43
1:A:1464:LEU:O	1:A:1468:ARG:HG2	2.19	0.43
1:A:1773:GLU:HG2	1:A:1777:THR:HB	2.01	0.43
1:C:259:GLN:O	1:C:328:SER:HA	2.19	0.43
1:C:469:ASP:HA	1:C:472:LEU:HB3	2.01	0.43
1:C:1038:LEU:HA	1:C:1038:LEU:HD23	1.65	0.43
1:C:1254:LEU:O	1:C:1258:LEU:HD23	2.19	0.43
1:C:1474:ILE:HB	1:C:1477:ILE:HG13	2.01	0.43
1:C:1825:VAL:HG11	1:C:1876:LEU:HD12	2.00	0.43
1:D:449:PHE:CE1	1:D:502:PRO:HD3	2.54	0.43
1:D:467:LEU:HD11	1:D:475:PHE:CE2	2.53	0.43
1:D:1258:LEU:HD12	1:D:1391:VAL:HG23	2.00	0.43
1:D:1421:LEU:HD23	1:D:1421:LEU:HA	1.87	0.43
1:D:1597:LEU:CD2	1:D:1601:GLN:HE22	2.32	0.43
1:D:1900:THR:O	1:D:1904:VAL:HG23	2.19	0.43
1:B:251:GLU:OE2	1:B:254:ARG:HD2	2.18	0.43
1:B:327:PHE:CE1	1:B:532:ILE:HG21	2.54	0.43
1:B:743:LEU:HD11	1:B:748:LEU:HD21	2.00	0.43
1:B:1099:LEU:HD12	1:B:1099:LEU:HA	1.76	0.43
1:B:1539:ASP:O	1:B:1543:ARG:HD3	2.19	0.43
1:A:57:GLU:HB2	1:A:957:LYS:HZ2	1.83	0.42
1:A:574:VAL:N	1:A:602:ALA:O	2.38	0.42
1:A:1179:LEU:HD12	1:A:1179:LEU:HA	1.84	0.42
1:A:1254:LEU:O	1:A:1258:LEU:HD23	2.19	0.42
1:A:1684:VAL:HB	1:A:1714:LEU:HD21	2.00	0.42
1:A:1884:TYR:CE2	1:A:1885:ILE:HG12	2.54	0.42
1:A:2001:ARG:O	1:A:2005:ARG:HG2	2.19	0.42
1:C:301:ASN:O	1:C:306:LYS:HE3	2.18	0.42
1:C:449:PHE:CE1	1:C:502:PRO:HD3	2.54	0.42
1:C:544:HIS:ND1	1:C:774:ALA:HB1	2.33	0.42
1:C:988:GLU:OE2	1:C:992:HIS:CE1	2.72	0.42
1:C:1446:LYS:HA	1:C:1446:LYS:HD3	1.79	0.42
1:C:1464:LEU:O	1:C:1468:ARG:HG2	2.19	0.42
1:C:1468:ARG:HE	1:C:1513:LEU:HD13	1.83	0.42
1:C:1472:SER:OG	1:C:1477:ILE:HD12	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1565:THR:O	1:C:1568:MET:HB3	2.18	0.42
1:C:1734:PHE:HE2	1:D:1727:HIS:CE1	2.37	0.42
1:C:1880:HIS:H	1:C:1889:ILE:CG1	2.28	0.42
1:C:1884:TYR:CE2	1:C:1885:ILE:HG12	2.54	0.42
1:C:1930:LEU:HD23	1:C:1991:LEU:HD12	2.00	0.42
1:D:1493:PHE:CD1	1:D:1499:PHE:HE2	2.38	0.42
1:D:1644:CYS:HA	1:D:1647:PHE:CD2	2.54	0.42
1:D:1693:TYR:HA	1:D:1696:MET:HG2	2.01	0.42
1:D:1802:ILE:CG2	1:D:1808:VAL:HG21	2.48	0.42
1:D:1825:VAL:HG11	1:D:1876:LEU:HD12	2.00	0.42
1:D:1930:LEU:HD23	1:D:1991:LEU:HD12	2.00	0.42
1:B:326:ILE:HB	1:B:531:GLU:HA	2.01	0.42
1:B:467:LEU:HD21	1:B:475:PHE:CD2	2.52	0.42
1:B:467:LEU:HD11	1:B:475:PHE:CE2	2.53	0.42
1:B:558:LEU:HD22	1:B:637:PHE:CZ	2.54	0.42
1:B:772:LEU:O	1:B:776:SER:N	2.52	0.42
1:B:1162:ALA:C	1:B:1164:LEU:N	2.76	0.42
1:B:1428:GLN:HG2	1:B:1432:PHE:HE2	1.84	0.42
1:B:1597:LEU:CD2	1:B:1601:GLN:HE22	2.32	0.42
1:B:1660:ILE:HG23	1:B:1664:ILE:HD12	2.01	0.42
1:B:1684:VAL:O	1:B:1688:GLU:HG3	2.18	0.42
1:B:1693:TYR:HA	1:B:1696:MET:HG2	2.01	0.42
1:B:1707:TYR:CE1	1:B:1726:VAL:HG13	2.54	0.42
1:A:946:LEU:HD21	1:A:960:PHE:HE1	1.83	0.42
1:A:1565:THR:O	1:A:1568:MET:HB3	2.18	0.42
1:A:1856:PHE:HA	1:A:1862:ALA:O	2.18	0.42
1:A:1885:ILE:HG13	1:A:1886:LYS:HG2	2.01	0.42
1:C:327:PHE:CE1	1:C:532:ILE:HG21	2.54	0.42
1:C:1005:LEU:HD23	1:C:1005:LEU:HA	1.79	0.42
1:C:1410:GLU:OE1	1:C:1410:GLU:N	2.51	0.42
1:C:1448:PRO:HD2	1:C:1449:GLU:CD	2.44	0.42
1:C:1605:GLY:O	1:C:1606:LYS:C	2.62	0.42
1:D:743:LEU:HD11	1:D:748:LEU:HD21	2.00	0.42
1:D:1404:MET:HE3	1:D:1404:MET:HB3	1.79	0.42
1:D:1707:TYR:CE1	1:D:1726:VAL:HG13	2.54	0.42
1:B:57:GLU:HB2	1:B:957:LYS:HZ2	1.84	0.42
1:B:513:PRO:HG2	1:B:533:LEU:HG	2.01	0.42
1:B:793:ILE:O	1:B:796:GLN:HG2	2.20	0.42
1:B:1163:GLU:O	1:B:1166:LEU:HD23	2.18	0.42
1:B:1464:LEU:O	1:B:1468:ARG:HG2	2.19	0.42
1:B:1589:TYR:O	1:B:1592:SER:N	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1630:TYR:O	1:B:1633:LEU:HB2	2.20	0.42
1:A:327:PHE:CE1	1:A:532:ILE:HG21	2.54	0.42
1:A:1248:GLU:HA	1:A:1251:ARG:HG2	2.00	0.42
1:A:1693:TYR:HA	1:A:1696:MET:HG2	2.01	0.42
1:A:1826:GLU:HG2	1:A:1851:LEU:O	2.19	0.42
1:C:511:LEU:O	1:C:530:LYS:HA	2.19	0.42
1:C:1533:LEU:HA	1:C:1555:MET:HE1	2.00	0.42
1:C:1727:HIS:NE2	1:D:1734:PHE:HE2	2.17	0.42
1:C:1826:GLU:HG2	1:C:1851:LEU:O	2.19	0.42
1:D:1464:LEU:O	1:D:1468:ARG:HG2	2.19	0.42
1:D:1503:LYS:NZ	1:D:1550:GLN:HB3	2.34	0.42
1:D:1884:TYR:CE2	1:D:1885:ILE:HG12	2.54	0.42
1:D:2001:ARG:O	1:D:2005:ARG:HG2	2.19	0.42
1:B:326:ILE:HD12	1:B:510:CYS:SG	2.59	0.42
1:B:469:ASP:HA	1:B:472:LEU:HB3	2.01	0.42
1:B:591:GLY:HA3	1:B:596:SER:O	2.19	0.42
1:B:788:ILE:HG22	1:B:789:ARG:HG3	2.02	0.42
1:B:1605:GLY:O	1:B:1606:LYS:C	2.62	0.42
1:B:1885:ILE:HG13	1:B:1886:LYS:HG2	2.01	0.42
1:A:449:PHE:CE1	1:A:502:PRO:HD3	2.54	0.42
1:A:469:ASP:HA	1:A:472:LEU:HB3	2.01	0.42
1:A:1131:LEU:HD13	1:A:1131:LEU:HA	1.90	0.42
1:A:1493:PHE:CD1	1:A:1499:PHE:HE2	2.38	0.42
1:A:1597:LEU:CD2	1:A:1601:GLN:HE22	2.32	0.42
1:A:1644:CYS:HA	1:A:1647:PHE:CD2	2.54	0.42
1:A:1707:TYR:CE1	1:A:1726:VAL:HG13	2.54	0.42
1:C:793:ILE:O	1:C:796:GLN:HG2	2.20	0.42
1:C:1097:PHE:CE1	1:C:1268:LEU:HD11	2.52	0.42
1:C:1414:GLY:HA2	1:C:1450:LEU:HD21	2.00	0.42
1:C:1539:ASP:O	1:C:1543:ARG:HD3	2.19	0.42
1:D:57:GLU:HB2	1:D:957:LYS:HZ2	1.85	0.42
1:D:988:GLU:OE2	1:D:992:HIS:CE1	2.72	0.42
1:D:1254:LEU:O	1:D:1258:LEU:HD23	2.19	0.42
1:D:1446:LYS:HA	1:D:1446:LYS:HD3	1.79	0.42
1:D:1448:PRO:HD2	1:D:1449:GLU:CD	2.44	0.42
1:D:1468:ARG:HE	1:D:1513:LEU:HD13	1.83	0.42
1:D:1533:LEU:HA	1:D:1555:MET:HE1	2.00	0.42
1:B:108:GLN:HE21	1:B:732:HIS:CB	2.32	0.42
1:B:259:GLN:O	1:B:328:SER:HA	2.19	0.42
1:B:679:ASP:OD2	1:B:697:MET:HG3	2.20	0.42
1:B:1097:PHE:CE1	1:B:1268:LEU:HD11	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1711:ILE:HD12	1:B:1711:ILE:H	1.83	0.42
1:A:133:ALA:HB2	1:A:244:VAL:HG11	2.02	0.42
1:A:213:GLU:HA	1:A:216:ASP:OD2	2.18	0.42
1:A:591:GLY:HA3	1:A:596:SER:O	2.19	0.42
1:A:660:PRO:HG2	1:A:689:THR:HG22	2.02	0.42
1:A:814:LEU:HD13	1:A:814:LEU:HA	1.92	0.42
1:A:988:GLU:OE2	1:A:992:HIS:CE1	2.72	0.42
1:A:1451:LEU:HD22	1:A:1459:CYS:HA	2.01	0.42
1:A:1474:ILE:HB	1:A:1477:ILE:HG13	2.01	0.42
1:A:1918:PHE:O	1:A:1922:GLN:HG3	2.20	0.42
1:C:679:ASP:OD2	1:C:697:MET:HG3	2.20	0.42
1:C:942:MET:HE3	1:C:964:PHE:CE2	2.54	0.42
1:C:1248:GLU:HA	1:C:1251:ARG:HG2	2.00	0.42
1:C:1590:GLN:N	1:C:1596:ARG:HD3	2.35	0.42
1:C:1660:ILE:HG23	1:C:1664:ILE:HD12	2.01	0.42
1:C:1982:GLU:HB3	1:C:1986:ARG:NH2	2.34	0.42
1:D:68:GLU:O	1:D:73:ARG:HD2	2.19	0.42
1:D:133:ALA:HB2	1:D:244:VAL:HG11	2.02	0.42
1:D:326:ILE:HD12	1:D:510:CYS:SG	2.59	0.42
1:D:1684:VAL:HB	1:D:1714:LEU:HD21	2.00	0.42
1:B:68:GLU:O	1:B:73:ARG:HD2	2.19	0.42
1:B:1404:MET:SD	1:B:1404:MET:N	2.92	0.42
1:B:1930:LEU:HD23	1:B:1991:LEU:HD12	2.00	0.42
1:A:56:PHE:CD2	1:A:1014:PHE:HE2	2.37	0.42
1:A:307:GLY:HA2	1:A:310:ARG:NE	2.35	0.42
1:A:1179:LEU:HA	1:A:1245:LEU:HD13	2.02	0.42
1:A:1448:PRO:HD2	1:A:1449:GLU:CD	2.44	0.42
1:A:1528:SER:HG	1:A:1529:LEU:H	1.68	0.42
1:C:133:ALA:HB2	1:C:244:VAL:HG11	2.02	0.42
1:C:293:SER:HB2	1:C:327:PHE:HE1	1.84	0.42
1:C:558:LEU:HD22	1:C:637:PHE:CZ	2.54	0.42
1:C:814:LEU:CD1	1:C:817:ARG:HH21	2.28	0.42
1:D:259:GLN:O	1:D:328:SER:HA	2.19	0.42
1:D:327:PHE:CE1	1:D:532:ILE:HG21	2.54	0.42
1:D:513:PRO:HG2	1:D:533:LEU:HG	2.01	0.42
1:D:679:ASP:OD2	1:D:697:MET:HG3	2.19	0.42
1:D:734:LEU:HD13	1:D:757:LEU:HD22	2.02	0.42
1:D:1563:THR:O	1:D:1566:VAL:HB	2.19	0.42
1:B:761:LEU:HA	1:B:761:LEU:HD23	1.83	0.42
1:B:942:MET:HE3	1:B:964:PHE:CE2	2.54	0.42
1:B:1261:LEU:HD23	1:B:1261:LEU:HA	1.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1854:THR:OG1	1:B:1854:THR:O	2.33	0.42
1:A:942:MET:HE3	1:A:964:PHE:CE2	2.54	0.42
1:A:1503:LYS:NZ	1:A:1550:GLN:HB3	2.34	0.42
1:A:1650:ILE:HD11	1:A:1706:VAL:HA	2.02	0.42
1:A:1660:ILE:HG23	1:A:1664:ILE:HD12	2.01	0.42
1:A:1702:ALA:O	1:A:1706:VAL:HG13	2.18	0.42
1:A:1982:GLU:HB3	1:A:1986:ARG:NH2	2.34	0.42
1:A:1989:LYS:N	1:A:2000:HIS:CE1	2.87	0.42
1:C:68:GLU:O	1:C:73:ARG:HD2	2.19	0.42
1:C:788:ILE:HG22	1:C:789:ARG:HG3	2.02	0.42
1:C:1451:LEU:HD22	1:C:1459:CYS:HA	2.01	0.42
1:C:1486:TYR:HE1	1:C:1547:PHE:HZ	1.68	0.42
1:C:1549:GLU:OE1	1:C:1549:GLU:N	2.31	0.42
1:C:1751:TYR:HE1	1:C:1882:PHE:HD2	1.68	0.42
1:C:1900:THR:O	1:C:1904:VAL:HG23	2.19	0.42
1:C:1918:PHE:O	1:C:1922:GLN:HG3	2.20	0.42
1:D:81:ASP:OD1	1:D:81:ASP:N	2.52	0.42
1:D:283:LEU:HA	1:D:283:LEU:HD23	1.84	0.42
1:D:1147:ASP:OD1	1:D:1259:TRP:NE1	2.34	0.42
1:D:1281:LEU:O	1:D:1285:LEU:HD23	2.19	0.42
1:D:1586:ALA:HB1	1:D:1596:ARG:HE	1.85	0.42
1:D:1607:HIS:O	1:D:1610:LEU:HB2	2.20	0.42
1:D:1885:ILE:HG13	1:D:1886:LYS:HG2	2.01	0.42
1:B:549:ASN:OD1	1:B:623:LEU:N	2.53	0.42
1:B:734:LEU:HD13	1:B:757:LEU:HD22	2.02	0.42
1:B:942:MET:HE3	1:B:964:PHE:HE2	1.84	0.42
1:B:1002:SER:O	1:B:1005:LEU:HB2	2.20	0.42
1:B:1474:ILE:HB	1:B:1477:ILE:HG13	2.01	0.42
1:B:1590:GLN:N	1:B:1596:ARG:HD3	2.35	0.42
1:B:1639:HIS:HB2	1:B:1713:ILE:HA	2.02	0.42
1:B:1825:VAL:HG11	1:B:1876:LEU:HD12	2.00	0.42
1:B:2001:ARG:O	1:B:2005:ARG:HG2	2.19	0.42
1:A:86:LEU:HD23	1:A:124:HIS:CB	2.50	0.42
1:A:326:ILE:HB	1:A:531:GLU:HA	2.01	0.42
1:A:553:VAL:HG11	1:A:635:PHE:CZ	2.53	0.42
1:A:1002:SER:O	1:A:1005:LEU:HB2	2.20	0.42
1:A:1254:LEU:HD13	1:A:1254:LEU:HA	1.82	0.42
1:A:1281:LEU:O	1:A:1285:LEU:HD23	2.19	0.42
1:A:1563:THR:O	1:A:1566:VAL:HB	2.20	0.42
1:A:1590:GLN:HA	1:A:1596:ARG:HD3	2.02	0.42
1:C:513:PRO:HG2	1:C:533:LEU:HG	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:663:GLN:N	1:C:666:ARG:O	2.51	0.42
1:C:942:MET:HE3	1:C:964:PHE:HE2	1.84	0.42
1:C:1394:ASP:O	1:C:1398:ILE:HG12	2.18	0.42
1:C:1428:GLN:HG2	1:C:1432:PHE:HE2	1.84	0.42
1:C:1481:ALA:O	1:C:1484:SER:OG	2.36	0.42
1:C:1492:ASN:HD21	1:C:1501:ARG:HH21	1.68	0.42
1:C:2001:ARG:O	1:C:2005:ARG:HG2	2.19	0.42
1:D:86:LEU:HD23	1:D:124:HIS:CB	2.50	0.42
1:D:469:ASP:HA	1:D:472:LEU:HB3	2.01	0.42
1:D:660:PRO:HG2	1:D:689:THR:HG22	2.02	0.42
1:D:793:ILE:O	1:D:796:GLN:HG2	2.20	0.42
1:D:1004:LEU:O	1:D:1007:LEU:N	2.39	0.42
1:D:1154:GLU:O	1:D:1157:VAL:HB	2.20	0.42
1:D:1533:LEU:N	1:D:1555:MET:HE1	2.35	0.42
1:D:1539:ASP:O	1:D:1543:ARG:HD3	2.19	0.42
1:D:1605:GLY:O	1:D:1606:LYS:C	2.62	0.42
1:D:1918:PHE:O	1:D:1922:GLN:HG3	2.20	0.42
1:B:581:ASP:OD2	1:B:584:GLN:HG3	2.20	0.42
1:B:988:GLU:OE2	1:B:992:HIS:CE1	2.72	0.42
1:B:1285:LEU:HD13	1:B:1288:LEU:HD12	2.02	0.42
1:B:1493:PHE:CD1	1:B:1499:PHE:HE2	2.37	0.42
1:B:1572:GLN:HA	1:B:1578:LEU:HD22	2.02	0.42
1:B:1792:GLU:OE1	1:B:1793:ARG:NH1	2.53	0.42
1:B:1884:TYR:CE2	1:B:1885:ILE:HG12	2.54	0.42
1:A:663:GLN:N	1:A:666:ARG:O	2.51	0.42
1:A:924:ARG:O	1:A:928:LEU:HG	2.20	0.42
1:A:1409:ARG:HH22	1:A:1446:LYS:C	2.28	0.42
1:A:1492:ASN:HD21	1:A:1501:ARG:HH21	1.68	0.42
1:A:1530:LYS:O	1:A:1533:LEU:HB2	2.20	0.42
1:A:1539:ASP:O	1:A:1543:ARG:HD3	2.19	0.42
1:A:1586:ALA:HB1	1:A:1596:ARG:HE	1.85	0.42
1:A:1787:GLU:O	1:A:1791:THR:OG1	2.22	0.42
1:C:57:GLU:HB2	1:C:957:LYS:HZ2	1.84	0.42
1:C:734:LEU:HD13	1:C:757:LEU:HD22	2.02	0.42
1:C:846:GLU:OE1	1:C:846:GLU:N	2.53	0.42
1:C:1058:ASN:CG	1:C:1110:ALA:H	2.28	0.42
1:C:1099:LEU:HA	1:C:1099:LEU:HD12	1.76	0.42
1:C:1142:LEU:HA	1:C:1142:LEU:HD13	1.87	0.42
1:C:1563:THR:O	1:C:1566:VAL:HB	2.19	0.42
1:C:1592:SER:HB3	1:C:1595:LEU:HD12	2.01	0.42
1:C:1650:ILE:HD11	1:C:1706:VAL:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1720:TYR:CE2	1:D:1738:MET:SD	3.13	0.42
1:D:56:PHE:CD2	1:D:1014:PHE:HE2	2.37	0.42
1:D:290:LYS:O	1:D:292:ILE:HG23	2.20	0.42
1:D:558:LEU:HD22	1:D:637:PHE:CZ	2.54	0.42
1:D:748:LEU:N	1:D:748:LEU:HD12	2.35	0.42
1:D:761:LEU:HA	1:D:761:LEU:HD23	1.83	0.42
1:D:924:ARG:O	1:D:928:LEU:HG	2.20	0.42
1:D:1410:GLU:OE1	1:D:1410:GLU:N	2.51	0.42
1:D:1592:SER:HB3	1:D:1595:LEU:HD12	2.01	0.42
1:D:1648:GLN:NE2	1:D:1652:SER:HA	2.35	0.42
1:D:1660:ILE:HG23	1:D:1664:ILE:HD12	2.01	0.42
1:D:1751:TYR:HE1	1:D:1882:PHE:HD2	1.68	0.42
1:D:1753:ARG:HH12	1:D:1821:GLN:CD	2.28	0.42
1:D:1855:PRO:HB3	1:D:1871:LYS:HA	2.02	0.42
1:B:56:PHE:CD2	1:B:1014:PHE:HE2	2.37	0.42
1:B:1010:ARG:HG2	1:B:1057:LEU:HD11	2.01	0.42
1:B:1154:GLU:O	1:B:1157:VAL:HB	2.20	0.42
1:B:1421:LEU:HD23	1:B:1421:LEU:HA	1.87	0.42
1:B:1422:TYR:CD1	1:B:1422:TYR:C	2.98	0.42
1:B:1425:GLY:H	1:B:1465:ARG:HH11	1.68	0.42
1:B:1586:ALA:HB1	1:B:1596:ARG:HE	1.85	0.42
1:B:1607:HIS:O	1:B:1610:LEU:HB2	2.20	0.42
1:B:1855:PRO:HB3	1:B:1871:LYS:HA	2.02	0.42
1:A:125:ARG:HB2	1:A:128:GLN:OE1	2.20	0.42
1:A:1146:HIS:CD2	1:A:1165:TYR:HH	2.38	0.42
1:A:1166:LEU:HA	1:A:1166:LEU:HD13	1.79	0.42
1:A:1751:TYR:HE1	1:A:1882:PHE:HD2	1.68	0.42
1:A:1825:VAL:HG11	1:A:1876:LEU:HD12	2.01	0.42
1:A:2009:ARG:HA	1:A:2012:GLU:HG3	2.01	0.42
1:C:86:LEU:HD23	1:C:124:HIS:CB	2.50	0.42
1:C:217:ARG:HH22	1:C:218:ARG:HB2	1.83	0.42
1:C:749:SER:N	1:C:752:ASN:OD1	2.42	0.42
1:C:1396:LEU:HA	1:C:1396:LEU:HD23	1.86	0.42
1:C:1409:ARG:HH22	1:C:1446:LYS:C	2.28	0.42
1:C:1472:SER:OG	1:C:1474:ILE:N	2.38	0.42
1:C:1569:LYS:HB3	1:C:1569:LYS:HE3	1.88	0.42
1:C:1684:VAL:HB	1:C:1714:LEU:HD21	2.00	0.42
1:D:549:ASN:OD1	1:D:623:LEU:N	2.53	0.42
1:D:1010:ARG:HG2	1:D:1057:LEU:HD11	2.01	0.42
1:B:400:HIS:C	1:B:401:LEU:HD23	2.45	0.42
1:B:1254:LEU:O	1:B:1258:LEU:HD23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1533:LEU:N	1:B:1555:MET:HE1	2.35	0.42
1:B:1982:GLU:HB3	1:B:1986:ARG:NH2	2.34	0.42
1:B:2009:ARG:HA	1:B:2012:GLU:HG3	2.02	0.42
1:A:290:LYS:O	1:A:292:ILE:HG23	2.20	0.41
1:A:814:LEU:CD1	1:A:817:ARG:HH21	2.28	0.41
1:A:1486:TYR:HE1	1:A:1547:PHE:HZ	1.68	0.41
1:A:1533:LEU:N	1:A:1555:MET:HE1	2.35	0.41
1:A:1590:GLN:N	1:A:1596:ARG:HD3	2.35	0.41
1:A:1607:HIS:O	1:A:1610:LEU:HB2	2.20	0.41
1:A:1613:HIS:CE1	1:A:1696:MET:HE2	2.55	0.41
1:A:1900:THR:O	1:A:1904:VAL:HG23	2.19	0.41
1:C:125:ARG:HB2	1:C:128:GLN:OE1	2.20	0.41
1:C:283:LEU:HD23	1:C:283:LEU:HA	1.84	0.41
1:C:549:ASN:OD1	1:C:623:LEU:N	2.53	0.41
1:C:1425:GLY:H	1:C:1465:ARG:HH11	1.68	0.41
1:C:1502:VAL:O	1:C:1503:LYS:C	2.60	0.41
1:C:1503:LYS:NZ	1:C:1550:GLN:HB3	2.34	0.41
1:C:1572:GLN:HA	1:C:1578:LEU:HD22	2.02	0.41
1:C:1753:ARG:NH2	1:C:1823:THR:OG1	2.53	0.41
1:D:307:GLY:HA2	1:D:310:ARG:NE	2.35	0.41
1:D:326:ILE:HB	1:D:531:GLU:HA	2.01	0.41
1:D:400:HIS:C	1:D:401:LEU:HD23	2.45	0.41
1:D:632:HIS:HD2	1:D:658:TRP:HB2	1.84	0.41
1:D:1099:LEU:HD12	1:D:1099:LEU:HA	1.76	0.41
1:D:1451:LEU:HD22	1:D:1459:CYS:HA	2.01	0.41
1:D:1487:LEU:HA	1:D:1487:LEU:HD13	1.70	0.41
1:D:1590:GLN:N	1:D:1596:ARG:HD3	2.35	0.41
1:B:290:LYS:O	1:B:292:ILE:HG23	2.20	0.41
1:B:449:PHE:CE1	1:B:502:PRO:HD3	2.55	0.41
1:B:846:GLU:OE1	1:B:846:GLU:N	2.53	0.41
1:B:932:TRP:HE3	1:B:936:GLN:OE1	2.03	0.41
1:B:1592:SER:HB3	1:B:1595:LEU:HD12	2.01	0.41
1:B:1613:HIS:CE1	1:B:1696:MET:HE2	2.55	0.41
1:A:679:ASP:OD2	1:A:697:MET:HG3	2.19	0.41
1:A:793:ILE:O	1:A:796:GLN:HG2	2.20	0.41
1:A:1010:ARG:HG2	1:A:1057:LEU:HD11	2.01	0.41
1:A:1533:LEU:HA	1:A:1555:MET:HE1	2.00	0.41
1:A:1595:LEU:O	1:A:1599:TRP:HD1	2.03	0.41
1:C:56:PHE:CD2	1:C:1014:PHE:HE2	2.37	0.41
1:C:108:GLN:HE21	1:C:732:HIS:CB	2.32	0.41
1:C:307:GLY:HA2	1:C:310:ARG:NE	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:470:GLU:H	1:C:470:GLU:CD	2.26	0.41
1:C:568:ARG:HB2	1:C:610:ASN:O	2.20	0.41
1:C:1455:ASP:OD2	1:C:1457:GLU:N	2.53	0.41
1:C:1493:PHE:CD1	1:C:1499:PHE:HE2	2.38	0.41
1:C:1586:ALA:HB1	1:C:1596:ARG:HE	1.85	0.41
1:C:1617:ALA:O	1:C:1621:VAL:HG23	2.20	0.41
1:D:788:ILE:HG22	1:D:789:ARG:HG3	2.02	0.41
1:D:814:LEU:CD1	1:D:817:ARG:HH21	2.28	0.41
1:D:1002:SER:O	1:D:1005:LEU:HB2	2.20	0.41
1:D:1146:HIS:HA	1:D:1149:ASP:OD2	2.20	0.41
1:D:1179:LEU:HA	1:D:1245:LEU:HD13	2.02	0.41
1:D:1617:ALA:O	1:D:1621:VAL:HG23	2.20	0.41
1:D:1792:GLU:OE1	1:D:1793:ARG:NH1	2.53	0.41
1:B:307:GLY:HA2	1:B:310:ARG:NE	2.35	0.41
1:B:568:ARG:HB2	1:B:610:ASN:O	2.20	0.41
1:B:954:THR:O	1:B:959:ARG:NE	2.51	0.41
1:B:1410:GLU:OE1	1:B:1410:GLU:N	2.51	0.41
1:B:1503:LYS:NZ	1:B:1550:GLN:HB3	2.34	0.41
1:B:1648:GLN:NE2	1:B:1652:SER:HA	2.35	0.41
1:B:1680:GLU:OE1	1:B:1681:LEU:HD22	2.21	0.41
1:B:1684:VAL:HB	1:B:1714:LEU:HD21	2.00	0.41
1:B:1859:ASP:OD2	1:B:1861:ARG:NH2	2.46	0.41
1:B:1918:PHE:O	1:B:1922:GLN:HG3	2.20	0.41
1:B:1929:MET:SD	1:B:1929:MET:N	2.89	0.41
1:A:568:ARG:HB2	1:A:610:ASN:O	2.20	0.41
1:A:846:GLU:OE1	1:A:846:GLU:N	2.53	0.41
1:A:1059:LEU:HD12	1:A:1059:LEU:HA	1.82	0.41
1:A:1428:GLN:HG2	1:A:1432:PHE:HE2	1.84	0.41
1:A:1472:SER:OG	1:A:1474:ILE:N	2.38	0.41
1:A:1617:ALA:O	1:A:1621:VAL:HG23	2.20	0.41
1:A:1648:GLN:NE2	1:A:1652:SER:HA	2.35	0.41
1:A:1727:HIS:CD2	1:B:1734:PHE:HE2	2.38	0.41
1:A:1855:PRO:HB3	1:A:1871:LYS:HA	2.02	0.41
1:A:1880:HIS:H	1:A:1889:ILE:CG1	2.28	0.41
1:C:786:LEU:HD21	1:C:800:LEU:HD23	2.02	0.41
1:C:1566:VAL:O	1:C:1567:LYS:C	2.63	0.41
1:C:1595:LEU:O	1:C:1599:TRP:HD1	2.03	0.41
1:C:1644:CYS:HA	1:C:1647:PHE:CD2	2.54	0.41
1:C:1680:GLU:OE1	1:C:1681:LEU:HD22	2.20	0.41
1:C:1855:PRO:HB3	1:C:1871:LYS:HA	2.02	0.41
1:D:85:LEU:HA	1:D:122:ILE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:511:LEU:HD23	1:D:511:LEU:HA	1.80	0.41
1:D:581:ASP:OD2	1:D:584:GLN:HG3	2.20	0.41
1:D:591:GLY:HA3	1:D:596:SER:O	2.19	0.41
1:D:1143:LEU:HA	1:D:1143:LEU:HD23	1.74	0.41
1:D:1285:LEU:HD13	1:D:1288:LEU:HD12	2.02	0.41
1:B:133:ALA:HB2	1:B:244:VAL:HG11	2.02	0.41
1:B:632:HIS:HD2	1:B:658:TRP:HB2	1.84	0.41
1:B:748:LEU:N	1:B:748:LEU:HD12	2.35	0.41
1:B:786:LEU:HD21	1:B:800:LEU:HD23	2.03	0.41
1:B:924:ARG:O	1:B:928:LEU:HG	2.20	0.41
1:B:1300:LYS:HZ1	1:B:1374:MET:C	2.28	0.41
1:B:1644:CYS:HA	1:B:1647:PHE:CD2	2.55	0.41
1:A:400:HIS:C	1:A:401:LEU:HD23	2.45	0.41
1:A:802:ARG:CZ	1:A:802:ARG:HB3	2.51	0.41
1:A:1396:LEU:HA	1:A:1396:LEU:HD23	1.86	0.41
1:A:1437:LEU:HA	1:A:1437:LEU:HD23	1.81	0.41
1:A:1639:HIS:HB2	1:A:1713:ILE:HA	2.02	0.41
1:A:1703:VAL:O	1:A:1706:VAL:HG22	2.21	0.41
1:A:1792:GLU:OE1	1:A:1793:ARG:NH1	2.53	0.41
1:C:581:ASP:OD2	1:C:584:GLN:HG3	2.20	0.41
1:C:591:GLY:HA3	1:C:596:SER:O	2.19	0.41
1:C:748:LEU:HD12	1:C:748:LEU:N	2.35	0.41
1:C:924:ARG:O	1:C:928:LEU:HG	2.20	0.41
1:C:1179:LEU:HA	1:C:1245:LEU:HD13	2.02	0.41
1:C:1422:TYR:CD1	1:C:1422:TYR:C	2.98	0.41
1:C:1530:LYS:O	1:C:1533:LEU:HB2	2.20	0.41
1:C:1533:LEU:N	1:C:1555:MET:HE1	2.35	0.41
1:C:1630:TYR:O	1:C:1633:LEU:HB2	2.20	0.41
1:C:1792:GLU:OE1	1:C:1793:ARG:NH1	2.53	0.41
1:C:2009:ARG:HA	1:C:2012:GLU:HG3	2.02	0.41
1:D:674:LEU:HD13	1:D:690:PRO:CG	2.51	0.41
1:D:1613:HIS:CE1	1:D:1696:MET:HE2	2.55	0.41
1:D:1650:ILE:HD11	1:D:1706:VAL:HA	2.02	0.41
1:D:1680:GLU:OE1	1:D:1681:LEU:HD22	2.21	0.41
1:B:70:GLY:HA2	1:B:71:PRO:HD3	1.92	0.41
1:B:660:PRO:HG2	1:B:689:THR:HG22	2.01	0.41
1:B:1058:ASN:CG	1:B:1110:ALA:H	2.28	0.41
1:B:1097:PHE:CZ	1:B:1272:TRP:HB2	2.56	0.41
1:B:1146:HIS:HA	1:B:1149:ASP:OD2	2.21	0.41
1:B:1451:LEU:HD22	1:B:1459:CYS:HA	2.01	0.41
1:B:1595:LEU:O	1:B:1599:TRP:HD1	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1993:GLY:O	1:B:1997:LYS:HE3	2.21	0.41
1:A:734:LEU:HD13	1:A:757:LEU:HD22	2.02	0.41
1:A:1097:PHE:CZ	1:A:1272:TRP:HB2	2.56	0.41
1:A:1401:GLN:HA	1:A:1404:MET:SD	2.61	0.41
1:A:1566:VAL:O	1:A:1567:LYS:C	2.63	0.41
1:A:1605:GLY:O	1:A:1606:LYS:C	2.62	0.41
1:A:1753:ARG:HH12	1:A:1821:GLN:CD	2.28	0.41
1:C:400:HIS:C	1:C:401:LEU:HD23	2.45	0.41
1:C:486:LEU:HD23	1:C:486:LEU:HA	1.90	0.41
1:C:558:LEU:HD11	1:C:706:VAL:HG23	2.03	0.41
1:C:808:MET:O	1:C:811:VAL:HB	2.21	0.41
1:C:1154:GLU:O	1:C:1157:VAL:HB	2.20	0.41
1:C:1703:VAL:O	1:C:1706:VAL:HG22	2.21	0.41
1:D:512:SER:HA	1:D:531:GLU:OE2	2.21	0.41
1:D:942:MET:HE3	1:D:964:PHE:CE2	2.54	0.41
1:D:1097:PHE:CZ	1:D:1272:TRP:HB2	2.56	0.41
1:D:1258:LEU:HD13	1:D:1258:LEU:HA	1.93	0.41
1:D:1422:TYR:CD1	1:D:1422:TYR:C	2.98	0.41
1:D:1425:GLY:H	1:D:1465:ARG:HH11	1.68	0.41
1:D:1455:ASP:OD2	1:D:1457:GLU:N	2.53	0.41
1:D:1587:ARG:HA	1:D:1587:ARG:HD3	1.82	0.41
1:D:1630:TYR:O	1:D:1633:LEU:HB2	2.20	0.41
1:D:1802:ILE:HG21	1:D:1808:VAL:HG21	2.02	0.41
1:B:283:LEU:HD23	1:B:283:LEU:HA	1.84	0.41
1:B:558:LEU:HD11	1:B:706:VAL:HG23	2.03	0.41
1:B:1166:LEU:HA	1:B:1166:LEU:HD13	1.78	0.41
1:B:1486:TYR:HE1	1:B:1547:PHE:HZ	1.68	0.41
1:B:1563:THR:O	1:B:1566:VAL:HB	2.19	0.41
1:B:1751:TYR:HE1	1:B:1882:PHE:HD2	1.68	0.41
1:A:70:GLY:HA2	1:A:71:PRO:HD3	1.92	0.41
1:A:387:LEU:HD23	1:A:650:LEU:HD11	2.03	0.41
1:A:558:LEU:HD22	1:A:637:PHE:CZ	2.54	0.41
1:A:786:LEU:HD21	1:A:800:LEU:HD23	2.03	0.41
1:A:808:MET:O	1:A:811:VAL:HB	2.21	0.41
1:A:1285:LEU:HD13	1:A:1288:LEU:HD12	2.02	0.41
1:A:1410:GLU:OE1	1:A:1410:GLU:N	2.51	0.41
1:A:1993:GLY:O	1:A:1997:LYS:HE3	2.21	0.41
1:C:387:LEU:HD23	1:C:650:LEU:HD11	2.03	0.41
1:C:660:PRO:HG2	1:C:689:THR:HG22	2.02	0.41
1:C:814:LEU:HD13	1:C:814:LEU:HA	1.92	0.41
1:C:960:PHE:CB	1:C:965:LEU:HD21	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1010:ARG:HG2	1:C:1057:LEU:HD11	2.01	0.41
1:C:1097:PHE:CZ	1:C:1272:TRP:HB2	2.56	0.41
1:C:1590:GLN:HA	1:C:1596:ARG:HD3	2.02	0.41
1:D:283:LEU:HB2	1:D:293:SER:HB3	2.02	0.41
1:D:960:PHE:CB	1:D:965:LEU:HD21	2.51	0.41
1:D:1404:MET:SD	1:D:1404:MET:N	2.92	0.41
1:D:1491:GLN:HA	1:D:1494:GLU:OE1	2.21	0.41
1:D:1595:LEU:O	1:D:1599:TRP:HD1	2.03	0.41
1:D:1639:HIS:HB2	1:D:1713:ILE:HA	2.01	0.41
1:D:1923:ASP:HA	1:D:1924:PRO:HA	1.88	0.41
1:B:1001:LEU:HD12	1:B:1044:PHE:CZ	2.48	0.41
1:B:1004:LEU:O	1:B:1007:LEU:N	2.39	0.41
1:A:86:LEU:HD13	1:A:86:LEU:HA	1.97	0.41
1:A:581:ASP:OD2	1:A:584:GLN:HG3	2.20	0.41
1:A:788:ILE:HG22	1:A:789:ARG:HG3	2.02	0.41
1:A:932:TRP:HE3	1:A:936:GLN:OE1	2.03	0.41
1:A:1143:LEU:HA	1:A:1143:LEU:HD23	1.73	0.41
1:A:1592:SER:HB3	1:A:1595:LEU:HD12	2.01	0.41
1:A:1630:TYR:O	1:A:1633:LEU:HB2	2.20	0.41
1:C:1491:GLN:HA	1:C:1494:GLU:OE1	2.21	0.41
1:D:558:LEU:HD11	1:D:706:VAL:HG23	2.03	0.41
1:D:1530:LYS:O	1:D:1533:LEU:HB2	2.20	0.41
1:D:1753:ARG:NH2	1:D:1823:THR:OG1	2.53	0.41
1:B:85:LEU:HA	1:B:122:ILE:O	2.20	0.41
1:B:512:SER:HA	1:B:531:GLU:OE2	2.21	0.41
1:B:674:LEU:C	1:B:705:GLY:HA2	2.46	0.41
1:B:1401:GLN:HA	1:B:1404:MET:SD	2.61	0.41
1:B:1409:ARG:HH22	1:B:1446:LYS:C	2.28	0.41
1:B:1802:ILE:HG21	1:B:1808:VAL:HG21	2.02	0.41
1:B:1989:LYS:N	1:B:2000:HIS:CE1	2.86	0.41
1:A:558:LEU:HD11	1:A:706:VAL:HG23	2.03	0.41
1:A:761:LEU:HA	1:A:761:LEU:HD23	1.83	0.41
1:A:1138:ALA:O	1:A:1142:LEU:HD23	2.21	0.41
1:A:1455:ASP:OD2	1:A:1457:GLU:N	2.53	0.41
1:C:1138:ALA:O	1:C:1142:LEU:HD23	2.21	0.41
1:D:125:ARG:HB2	1:D:128:GLN:OE1	2.20	0.41
1:D:788:ILE:HG23	1:D:906:LYS:O	2.21	0.41
1:D:846:GLU:OE1	1:D:846:GLU:N	2.53	0.41
1:D:983:VAL:HG23	1:D:984:HIS:N	2.36	0.41
1:D:1097:PHE:CE1	1:D:1268:LEU:HD11	2.52	0.41
1:D:1401:GLN:HA	1:D:1404:MET:SD	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1474:ILE:HB	1:D:1477:ILE:HG13	2.01	0.41
1:B:280:ILE:O	1:B:340:ILE:HA	2.21	0.41
1:B:1051:HIS:HE1	1:B:1053:HIS:HB2	1.86	0.41
1:B:1404:MET:HE3	1:B:1404:MET:HB3	1.79	0.41
1:A:461:LYS:HE3	1:A:462:GLN:O	2.21	0.41
1:A:663:GLN:HE21	1:A:744:LYS:HZ2	1.69	0.41
1:A:748:LEU:N	1:A:748:LEU:HD12	2.35	0.41
1:A:788:ILE:HG23	1:A:906:LYS:O	2.21	0.41
1:A:829:CYS:HB3	1:A:832:LEU:HD12	2.03	0.41
1:A:1058:ASN:CG	1:A:1110:ALA:H	2.28	0.41
1:A:1154:GLU:O	1:A:1157:VAL:HB	2.20	0.41
1:A:1421:LEU:HD23	1:A:1421:LEU:HA	1.87	0.41
1:A:1425:GLY:H	1:A:1465:ARG:HH11	1.68	0.41
1:A:1558:LEU:O	1:A:1561:ILE:HB	2.21	0.41
1:A:1615:GLU:HG2	1:A:1616:ALA:N	2.36	0.41
1:A:1926:ASP:HB2	1:A:1929:MET:SD	2.61	0.41
1:C:290:LYS:O	1:C:292:ILE:HG23	2.20	0.41
1:C:467:LEU:HD11	1:C:475:PHE:CE2	2.53	0.41
1:C:983:VAL:HG23	1:C:984:HIS:N	2.36	0.41
1:C:1146:HIS:HA	1:C:1149:ASP:OD2	2.20	0.41
1:C:1254:LEU:HD13	1:C:1254:LEU:HA	1.82	0.41
1:C:1285:LEU:HD13	1:C:1288:LEU:HD12	2.02	0.41
1:C:1550:GLN:O	1:C:1553:ASP:OD1	2.39	0.41
1:C:1553:ASP:OD1	1:C:1553:ASP:C	2.63	0.41
1:C:1607:HIS:O	1:C:1610:LEU:HB2	2.20	0.41
1:C:1648:GLN:NE2	1:C:1652:SER:HA	2.35	0.41
1:C:1687:LEU:HD13	1:C:1710:LEU:HD13	2.03	0.41
1:C:1693:TYR:HA	1:C:1696:MET:HG2	2.01	0.41
1:C:1926:ASP:HB2	1:C:1929:MET:SD	2.61	0.41
1:C:2018:LEU:HD23	1:C:2018:LEU:HA	1.87	0.41
1:D:280:ILE:O	1:D:340:ILE:HA	2.21	0.41
1:D:303:ASP:HA	1:D:306:LYS:HB2	2.03	0.41
1:D:461:LYS:HE3	1:D:462:GLN:O	2.21	0.41
1:D:628:THR:HG22	1:D:629:GLU:N	2.36	0.41
1:D:802:ARG:CZ	1:D:802:ARG:HB3	2.51	0.41
1:D:829:CYS:HB3	1:D:832:LEU:HD12	2.03	0.41
1:D:932:TRP:HE3	1:D:936:GLN:OE1	2.03	0.41
1:D:1001:LEU:HD12	1:D:1044:PHE:CZ	2.48	0.41
1:D:1058:ASN:CG	1:D:1110:ALA:H	2.28	0.41
1:D:1300:LYS:HZ1	1:D:1374:MET:C	2.28	0.41
1:D:1428:GLN:HG2	1:D:1432:PHE:HE2	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1481:ALA:O	1:D:1484:SER:OG	2.36	0.41
1:D:1550:GLN:O	1:D:1553:ASP:OD1	2.39	0.41
1:D:1590:GLN:HA	1:D:1596:ARG:HD3	2.02	0.41
1:D:1703:VAL:O	1:D:1706:VAL:HG22	2.21	0.41
1:D:1809:ASP:N	1:D:1812:LYS:HZ3	2.16	0.41
1:B:86:LEU:HD23	1:B:124:HIS:CB	2.50	0.41
1:B:281:LEU:HB2	1:B:296:PHE:HD2	1.86	0.41
1:B:283:LEU:HB2	1:B:293:SER:HB3	2.02	0.41
1:B:284:TYR:O	1:B:336:ILE:HA	2.21	0.41
1:B:674:LEU:HD13	1:B:690:PRO:CG	2.51	0.41
1:B:788:ILE:HG23	1:B:906:LYS:O	2.21	0.41
1:B:808:MET:O	1:B:811:VAL:HB	2.21	0.41
1:B:829:CYS:HB3	1:B:832:LEU:HD12	2.03	0.41
1:B:840:PHE:CZ	1:B:842:LEU:HB2	2.56	0.41
1:B:1448:PRO:HD2	1:B:1449:GLU:OE2	2.21	0.41
1:B:1491:GLN:HA	1:B:1494:GLU:OE1	2.21	0.41
1:B:1550:GLN:O	1:B:1553:ASP:OD1	2.39	0.41
1:B:1617:ALA:O	1:B:1621:VAL:HG23	2.20	0.41
1:B:1650:ILE:HD11	1:B:1706:VAL:HA	2.02	0.41
1:B:1753:ARG:NH2	1:B:1823:THR:OG1	2.53	0.41
1:B:1785:ARG:NH2	1:B:1789:PHE:HB2	2.36	0.41
1:A:578:THR:HG1	1:A:631:HIS:CD2	2.39	0.41
1:A:1300:LYS:HZ1	1:A:1374:MET:C	2.28	0.41
1:A:1422:TYR:CD1	1:A:1422:TYR:C	2.98	0.41
1:A:1572:GLN:HA	1:A:1578:LEU:HD22	2.02	0.41
1:C:512:SER:HA	1:C:531:GLU:OE2	2.21	0.41
1:C:628:THR:HG22	1:C:629:GLU:N	2.36	0.41
1:C:1421:LEU:HA	1:C:1421:LEU:HD23	1.87	0.41
1:C:1613:HIS:CE1	1:C:1696:MET:HE2	2.55	0.41
1:C:1639:HIS:HB2	1:C:1713:ILE:HA	2.02	0.41
1:C:1785:ARG:NH2	1:C:1789:PHE:HB2	2.36	0.41
1:C:1993:GLY:O	1:C:1997:LYS:HE3	2.21	0.41
1:D:786:LEU:HD21	1:D:800:LEU:HD23	2.03	0.41
1:D:1131:LEU:HD13	1:D:1131:LEU:HA	1.90	0.41
1:D:1407:GLU:N	1:D:1407:GLU:OE1	2.54	0.41
1:D:1707:TYR:HB3	1:D:1711:ILE:HD11	2.03	0.41
1:B:125:ARG:HB2	1:B:128:GLN:OE1	2.20	0.41
1:B:628:THR:HG22	1:B:629:GLU:N	2.36	0.41
1:B:960:PHE:CB	1:B:965:LEU:HD21	2.51	0.41
1:B:983:VAL:HG23	1:B:984:HIS:N	2.36	0.41
1:B:1403:VAL:C	1:B:1406:SER:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1753:ARG:HH12	1:B:1821:GLN:CD	2.28	0.41
1:B:1926:ASP:HB2	1:B:1929:MET:SD	2.61	0.41
1:A:512:SER:HA	1:A:531:GLU:OE2	2.21	0.40
1:A:549:ASN:OD1	1:A:623:LEU:N	2.53	0.40
1:A:983:VAL:HG23	1:A:984:HIS:N	2.36	0.40
1:A:1407:GLU:N	1:A:1407:GLU:OE1	2.54	0.40
1:A:1550:GLN:O	1:A:1553:ASP:OD1	2.39	0.40
1:A:1680:GLU:OE1	1:A:1681:LEU:HD22	2.21	0.40
1:C:775:PHE:O	1:C:779:VAL:HG23	2.22	0.40
1:C:932:TRP:HE3	1:C:936:GLN:OE1	2.03	0.40
1:C:1002:SER:O	1:C:1005:LEU:HB2	2.20	0.40
1:C:1143:LEU:HD23	1:C:1143:LEU:HA	1.73	0.40
1:C:1455:ASP:CG	1:C:1456:THR:N	2.80	0.40
1:C:1467:LEU:O	1:C:1468:ARG:C	2.64	0.40
1:D:54:LEU:CD1	1:D:1105:GLN:HB3	2.51	0.40
1:D:568:ARG:HB2	1:D:610:ASN:O	2.20	0.40
1:D:1001:LEU:HD23	1:D:1001:LEU:HA	1.90	0.40
1:D:1123:PRO:HA	1:D:1178:ARG:NH2	2.36	0.40
1:D:1409:ARG:HH22	1:D:1446:LYS:C	2.28	0.40
1:D:1472:SER:OG	1:D:1474:ILE:N	2.38	0.40
1:D:1486:TYR:HE1	1:D:1547:PHE:HZ	1.68	0.40
1:D:1626:LEU:HD12	1:D:1629:GLU:OE1	2.22	0.40
1:D:1751:TYR:CZ	1:D:1772:LYS:HD3	2.57	0.40
1:D:1764:LEU:HD23	1:D:1764:LEU:HA	1.92	0.40
1:D:1926:ASP:HB2	1:D:1929:MET:SD	2.61	0.40
1:B:54:LEU:CD1	1:B:1105:GLN:HB3	2.51	0.40
1:B:461:LYS:HE3	1:B:462:GLN:O	2.21	0.40
1:B:1041:ARG:O	1:B:1045:THR:HG23	2.21	0.40
1:B:1121:LEU:HD23	1:B:1121:LEU:HA	1.88	0.40
1:B:1569:LYS:HB3	1:B:1569:LYS:HE3	1.88	0.40
1:B:1587:ARG:NH1	1:B:1596:ARG:HH12	2.19	0.40
1:B:1687:LEU:HD13	1:B:1710:LEU:HD13	2.03	0.40
1:A:394:PHE:O	1:A:462:GLN:N	2.32	0.40
1:A:960:PHE:CB	1:A:965:LEU:HD21	2.51	0.40
1:A:1547:PHE:O	1:A:1551:VAL:HG23	2.21	0.40
1:C:252:PRO:HA	1:C:253:PRO:HD3	1.95	0.40
1:C:394:PHE:O	1:C:462:GLN:N	2.32	0.40
1:C:788:ILE:HG23	1:C:906:LYS:O	2.21	0.40
1:C:802:ARG:CZ	1:C:802:ARG:HB3	2.51	0.40
1:C:832:LEU:HD23	1:C:832:LEU:HA	1.88	0.40
1:C:1166:LEU:HA	1:C:1166:LEU:HD13	1.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1401:GLN:HA	1:C:1404:MET:SD	2.61	0.40
1:C:1407:GLU:N	1:C:1407:GLU:OE1	2.54	0.40
1:D:674:LEU:C	1:D:705:GLY:HA2	2.46	0.40
1:D:1288:LEU:O	1:D:1291:CYS:HB3	2.22	0.40
1:D:1553:ASP:OD1	1:D:1553:ASP:C	2.63	0.40
1:D:2009:ARG:HA	1:D:2012:GLU:HG3	2.01	0.40
1:B:72:LEU:HD21	1:B:1160:ARG:HG3	2.03	0.40
1:B:1154:GLU:OE1	1:B:1157:VAL:N	2.34	0.40
1:B:1590:GLN:HA	1:B:1596:ARG:HD3	2.02	0.40
1:B:1751:TYR:CZ	1:B:1772:LYS:HD3	2.57	0.40
1:A:85:LEU:HA	1:A:122:ILE:O	2.20	0.40
1:A:1000:PHE:CZ	1:A:1004:LEU:HD11	2.57	0.40
1:A:1109:LEU:H	1:A:1109:LEU:HG	1.67	0.40
1:A:1448:PRO:HD2	1:A:1449:GLU:OE2	2.21	0.40
1:A:1487:LEU:HD13	1:A:1487:LEU:HA	1.69	0.40
1:A:1587:ARG:NH1	1:A:1596:ARG:HH12	2.20	0.40
1:A:1826:GLU:HG3	1:A:1827:PRO:O	2.22	0.40
1:C:54:LEU:CD1	1:C:1105:GLN:HB3	2.51	0.40
1:C:283:LEU:HB2	1:C:293:SER:HB3	2.02	0.40
1:C:574:VAL:N	1:C:602:ALA:O	2.38	0.40
1:C:829:CYS:HB3	1:C:832:LEU:HD12	2.03	0.40
1:C:1000:PHE:CZ	1:C:1004:LEU:HD11	2.57	0.40
1:C:1051:HIS:HE1	1:C:1053:HIS:HB2	1.86	0.40
1:C:1437:LEU:HA	1:C:1437:LEU:HD23	1.81	0.40
1:C:1626:LEU:HD12	1:C:1629:GLU:OE1	2.21	0.40
1:C:1707:TYR:HB3	1:C:1711:ILE:HD11	2.03	0.40
1:C:1727:HIS:CE1	1:D:1734:PHE:HE2	2.39	0.40
1:C:1764:LEU:HD23	1:C:1764:LEU:HA	1.92	0.40
1:D:808:MET:O	1:D:811:VAL:HB	2.21	0.40
1:D:1547:PHE:O	1:D:1551:VAL:HG23	2.21	0.40
1:D:1578:LEU:O	1:D:1582:MET:HG3	2.22	0.40
1:D:1785:ARG:NH2	1:D:1789:PHE:HB2	2.36	0.40
1:D:1809:ASP:O	1:D:1813:LEU:HG	2.21	0.40
1:D:1993:GLY:O	1:D:1997:LYS:HE3	2.21	0.40
1:B:901:ARG:O	1:B:905:SER:OG	2.34	0.40
1:B:1138:ALA:O	1:B:1142:LEU:HD23	2.21	0.40
1:B:1553:ASP:OD1	1:B:1553:ASP:C	2.63	0.40
1:B:1587:ARG:HA	1:B:1587:ARG:HD3	1.82	0.40
1:A:628:THR:HG22	1:A:629:GLU:N	2.36	0.40
1:A:840:PHE:CZ	1:A:842:LEU:HB2	2.56	0.40
1:A:1491:GLN:HA	1:A:1494:GLU:OE1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1493:PHE:HB2	1:A:1499:PHE:CE2	2.57	0.40
1:A:1549:GLU:OE1	1:A:1549:GLU:N	2.31	0.40
1:A:1553:ASP:OD1	1:A:1553:ASP:C	2.63	0.40
1:A:1626:LEU:HD12	1:A:1629:GLU:OE1	2.21	0.40
1:A:1751:TYR:CZ	1:A:1772:LYS:HD3	2.56	0.40
1:A:1785:ARG:NH2	1:A:1789:PHE:HB2	2.36	0.40
1:C:248:SER:H	1:C:826:ARG:CD	2.35	0.40
1:C:281:LEU:HB2	1:C:296:PHE:HD2	1.86	0.40
1:C:840:PHE:CZ	1:C:842:LEU:HB2	2.56	0.40
1:C:1448:PRO:HD2	1:C:1449:GLU:OE2	2.21	0.40
1:C:1564:ASP:OD1	1:C:1565:THR:HG23	2.22	0.40
1:C:1701:GLU:HG3	1:C:1841:PHE:CG	2.57	0.40
1:D:281:LEU:HB2	1:D:296:PHE:HD2	1.86	0.40
1:D:284:TYR:O	1:D:336:ILE:HA	2.21	0.40
1:D:394:PHE:O	1:D:462:GLN:N	2.32	0.40
1:D:405:VAL:HG11	1:D:445:SER:O	2.22	0.40
1:D:840:PHE:CZ	1:D:842:LEU:HB2	2.56	0.40
1:D:1041:ARG:O	1:D:1045:THR:HG23	2.21	0.40
1:D:1138:ALA:O	1:D:1142:LEU:HD23	2.21	0.40
1:D:1525:LEU:C	1:D:1528:SER:HG	2.16	0.40
1:B:387:LEU:HD23	1:B:650:LEU:HD11	2.03	0.40
1:B:832:LEU:HA	1:B:832:LEU:HD23	1.88	0.40
1:B:1530:LYS:O	1:B:1533:LEU:HB2	2.20	0.40
1:B:1558:LEU:O	1:B:1561:ILE:HB	2.21	0.40
1:B:1578:LEU:O	1:B:1582:MET:HG3	2.22	0.40
1:B:1694:PHE:O	1:B:1698:GLY:N	2.37	0.40
1:A:486:LEU:HD23	1:A:486:LEU:HA	1.89	0.40
1:A:674:LEU:C	1:A:705:GLY:HA2	2.46	0.40
1:A:775:PHE:O	1:A:779:VAL:HG23	2.22	0.40
1:A:1531:THR:C	1:A:1534:THR:HG1	2.25	0.40
1:A:1564:ASP:OD1	1:A:1565:THR:HG23	2.22	0.40
1:A:1802:ILE:HG21	1:A:1808:VAL:HG21	2.02	0.40
1:C:280:ILE:O	1:C:340:ILE:HA	2.21	0.40
1:C:558:LEU:HA	1:C:558:LEU:HD12	1.91	0.40
1:C:1884:TYR:CD2	1:C:1886:LYS:HG3	2.57	0.40
1:D:283:LEU:HD23	1:D:338:LEU:HA	2.04	0.40
1:D:558:LEU:HD12	1:D:558:LEU:HA	1.91	0.40
1:D:814:LEU:HD13	1:D:814:LEU:HA	1.92	0.40
1:D:1051:HIS:HE1	1:D:1053:HIS:HB2	1.86	0.40
1:D:1572:GLN:HA	1:D:1578:LEU:HD22	2.02	0.40
1:B:1005:LEU:HD23	1:B:1005:LEU:HA	1.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1288:LEU:O	1:B:1291:CYS:HB3	2.22	0.40
1:B:1407:GLU:N	1:B:1407:GLU:OE1	2.54	0.40
1:B:1455:ASP:CG	1:B:1456:THR:N	2.79	0.40
1:B:1455:ASP:OD2	1:B:1457:GLU:N	2.53	0.40
1:B:1492:ASN:HD21	1:B:1501:ARG:HH21	1.68	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 PDB entries followed by that with respect to all EM entries.

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	1667/2053 (81%)	1533 (92%)	134 (8%)	0	100	100
1	B	1667/2053 (81%)	1534 (92%)	133 (8%)	0	100	100
1	C	1667/2053 (81%)	1533 (92%)	134 (8%)	0	100	100
1	D	1667/2053 (81%)	1533 (92%)	134 (8%)	0	100	100
All	All	6668/8212 (81%)	6133 (92%)	535 (8%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1470/1773 (83%)	1470 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	1470/1773 (83%)	1470 (100%)	0	100	100
1	C	1470/1773 (83%)	1470 (100%)	0	100	100
1	D	1470/1773 (83%)	1470 (100%)	0	100	100
All	All	5880/7092 (83%)	5880 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (83) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	108	GLN
1	A	219	ASN
1	A	256	HIS
1	A	259	GLN
1	A	544	HIS
1	A	584	GLN
1	A	732	HIS
1	A	984	HIS
1	A	1023	GLN
1	A	1053	HIS
1	A	1428	GLN
1	A	1440	GLN
1	A	1492	ASN
1	A	1497	HIS
1	A	1612	ASN
1	A	1613	HIS
1	A	1689	GLN
1	A	1717	HIS
1	A	1844	ASN
1	A	1870	HIS
1	A	2000	HIS
1	C	108	GLN
1	C	256	HIS
1	C	259	GLN
1	C	544	HIS
1	C	584	GLN
1	C	663	GLN
1	C	732	HIS
1	C	984	HIS
1	C	1023	GLN
1	C	1053	HIS

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Mol	Chain	Res	Type
1	C	1428	GLN
1	C	1440	GLN
1	C	1492	ASN
1	C	1497	HIS
1	C	1612	ASN
1	C	1613	HIS
1	C	1689	GLN
1	C	1717	HIS
1	C	1844	ASN
1	C	1870	HIS
1	C	2000	HIS
1	D	108	GLN
1	D	219	ASN
1	D	256	HIS
1	D	259	GLN
1	D	544	HIS
1	D	584	GLN
1	D	732	HIS
1	D	984	HIS
1	D	1023	GLN
1	D	1053	HIS
1	D	1428	GLN
1	D	1440	GLN
1	D	1492	ASN
1	D	1497	HIS
1	D	1613	HIS
1	D	1689	GLN
1	D	1717	HIS
1	D	1844	ASN
1	D	1870	HIS
1	D	2000	HIS
1	B	108	GLN
1	B	256	HIS
1	B	259	GLN
1	B	544	HIS
1	B	584	GLN
1	B	663	GLN
1	B	732	HIS
1	B	984	HIS
1	B	1023	GLN
1	B	1053	HIS
1	B	1428	GLN

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Mol	Chain	Res	Type
1	B	1440	GLN
1	B	1492	ASN
1	B	1497	HIS
1	B	1612	ASN
1	B	1613	HIS
1	B	1689	GLN
1	B	1717	HIS
1	B	1844	ASN
1	B	1870	HIS
1	B	2000	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

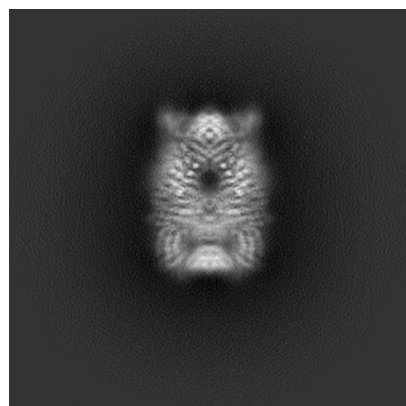
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-65178. These allow visual inspection of the internal detail of the map and identification of artifacts.

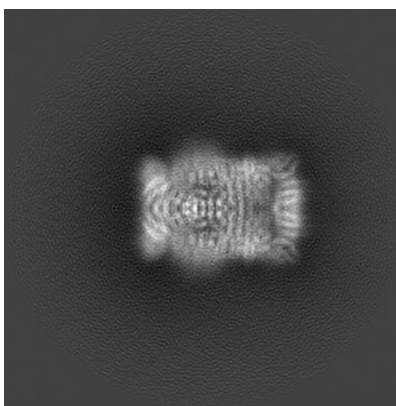
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

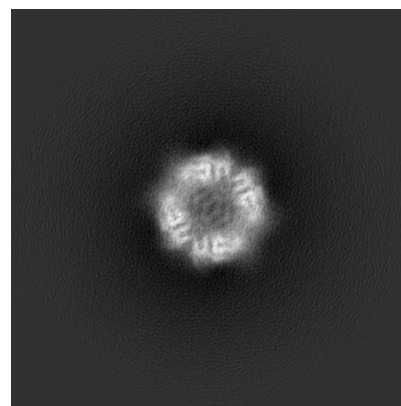
6.1.1 Primary map



X

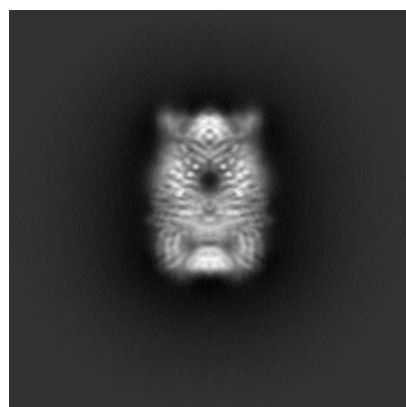


Y

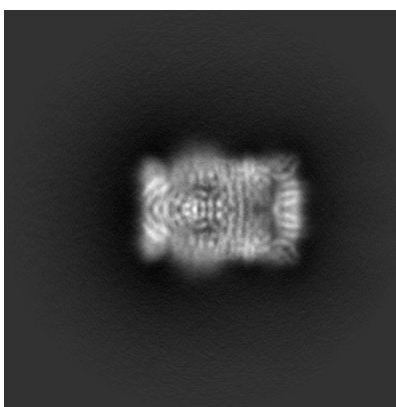


Z

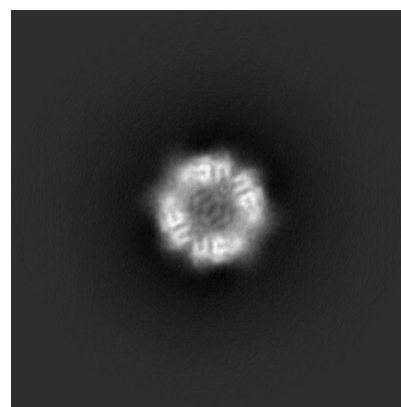
6.1.2 Raw map



X



Y

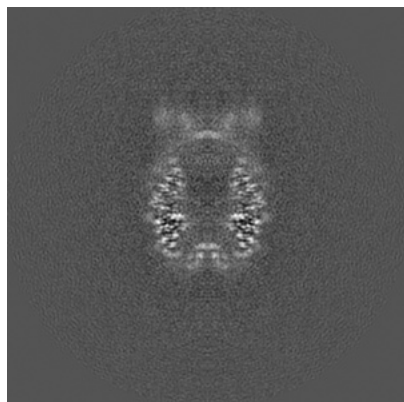


Z

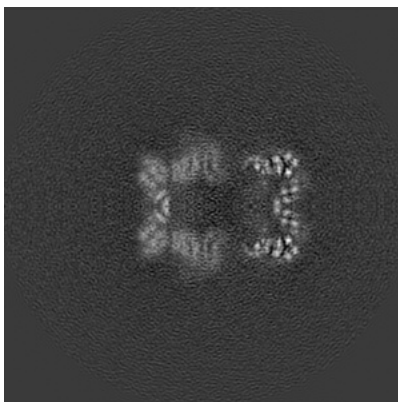
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

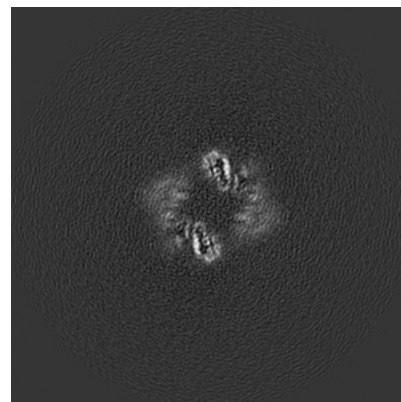
6.2.1 Primary map



X Index: 170

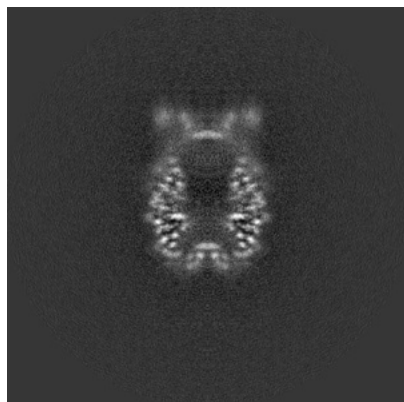


Y Index: 170

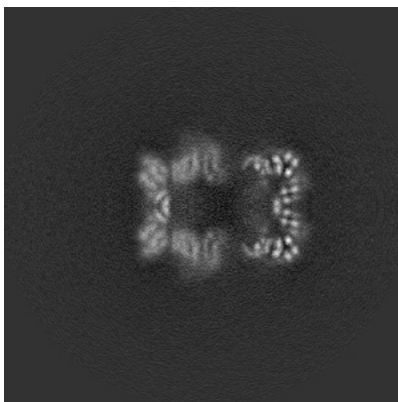


Z Index: 170

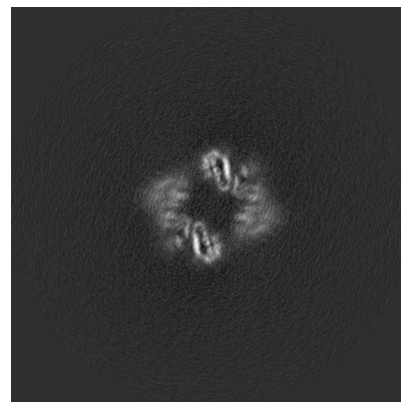
6.2.2 Raw map



X Index: 170



Y Index: 170

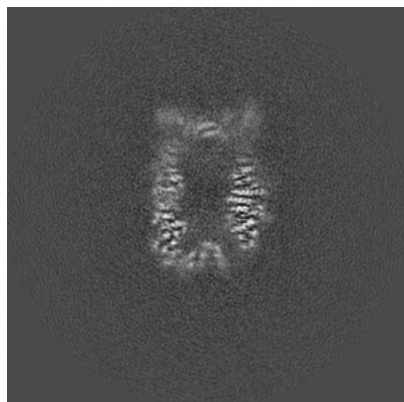


Z Index: 170

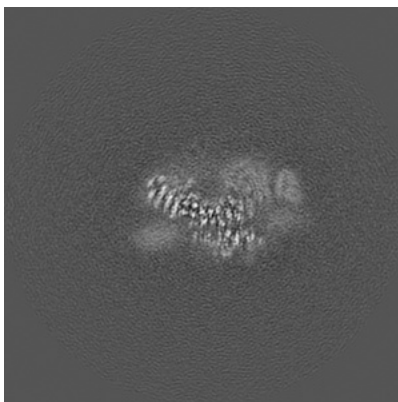
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

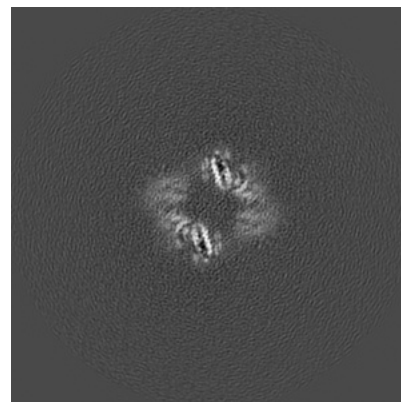
6.3.1 Primary map



X Index: 174

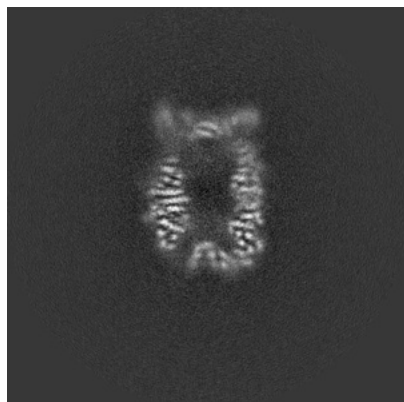


Y Index: 142

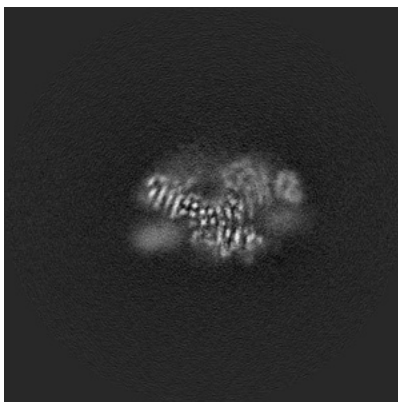


Z Index: 168

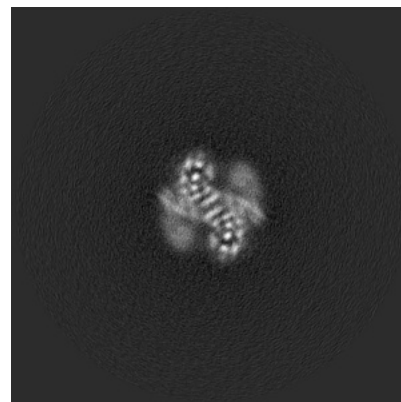
6.3.2 Raw map



X Index: 166



Y Index: 143

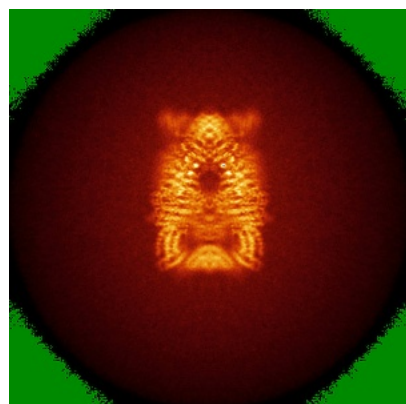


Z Index: 128

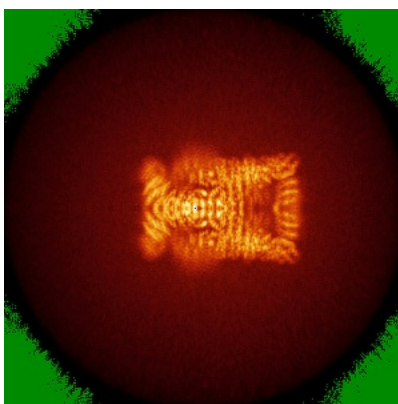
The images above show the largest variance slices of the map in three orthogonal directions.

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

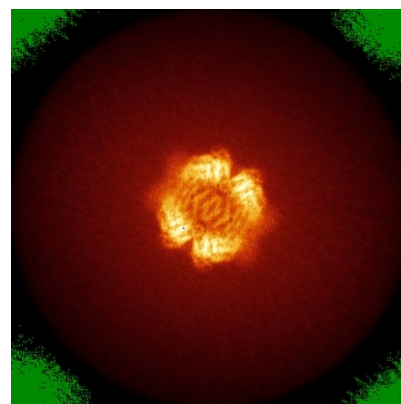
6.4.1 Primary map



X



Y

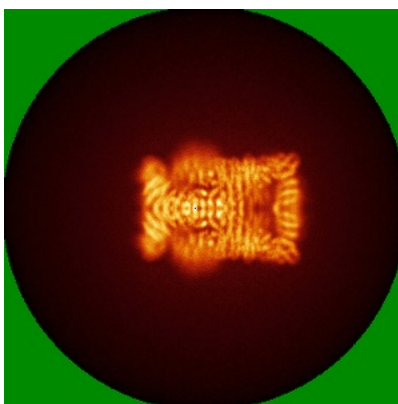


Z

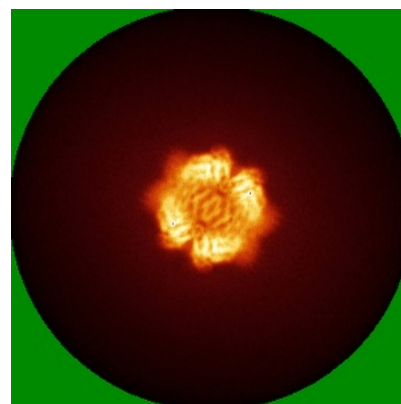
6.4.2 Raw map



X



Y

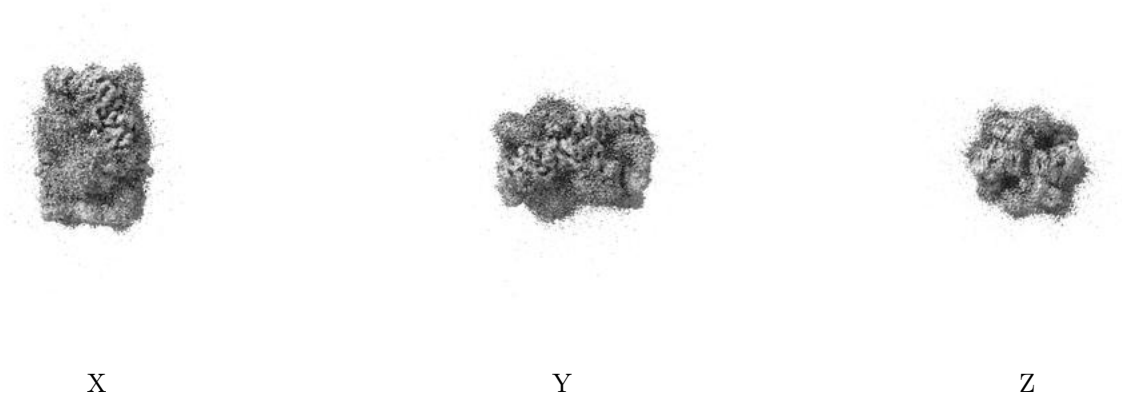


Z

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

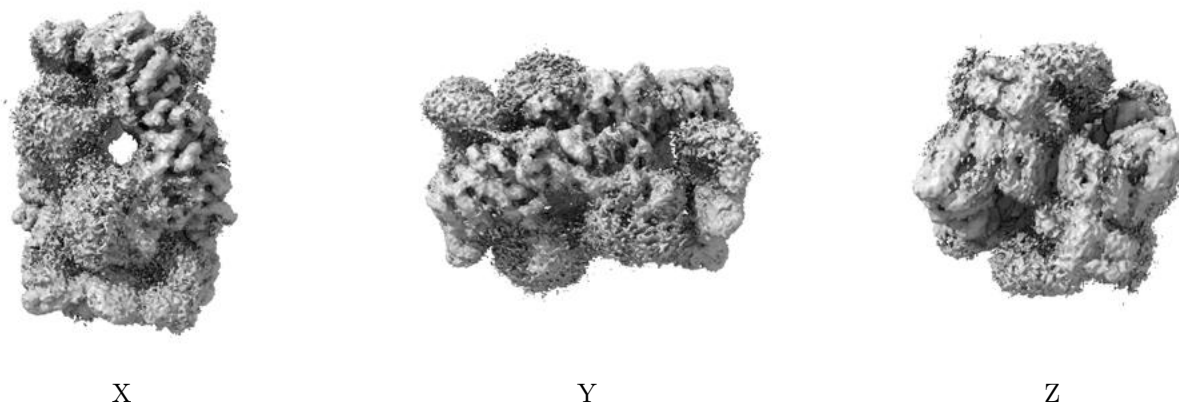
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.01. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



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

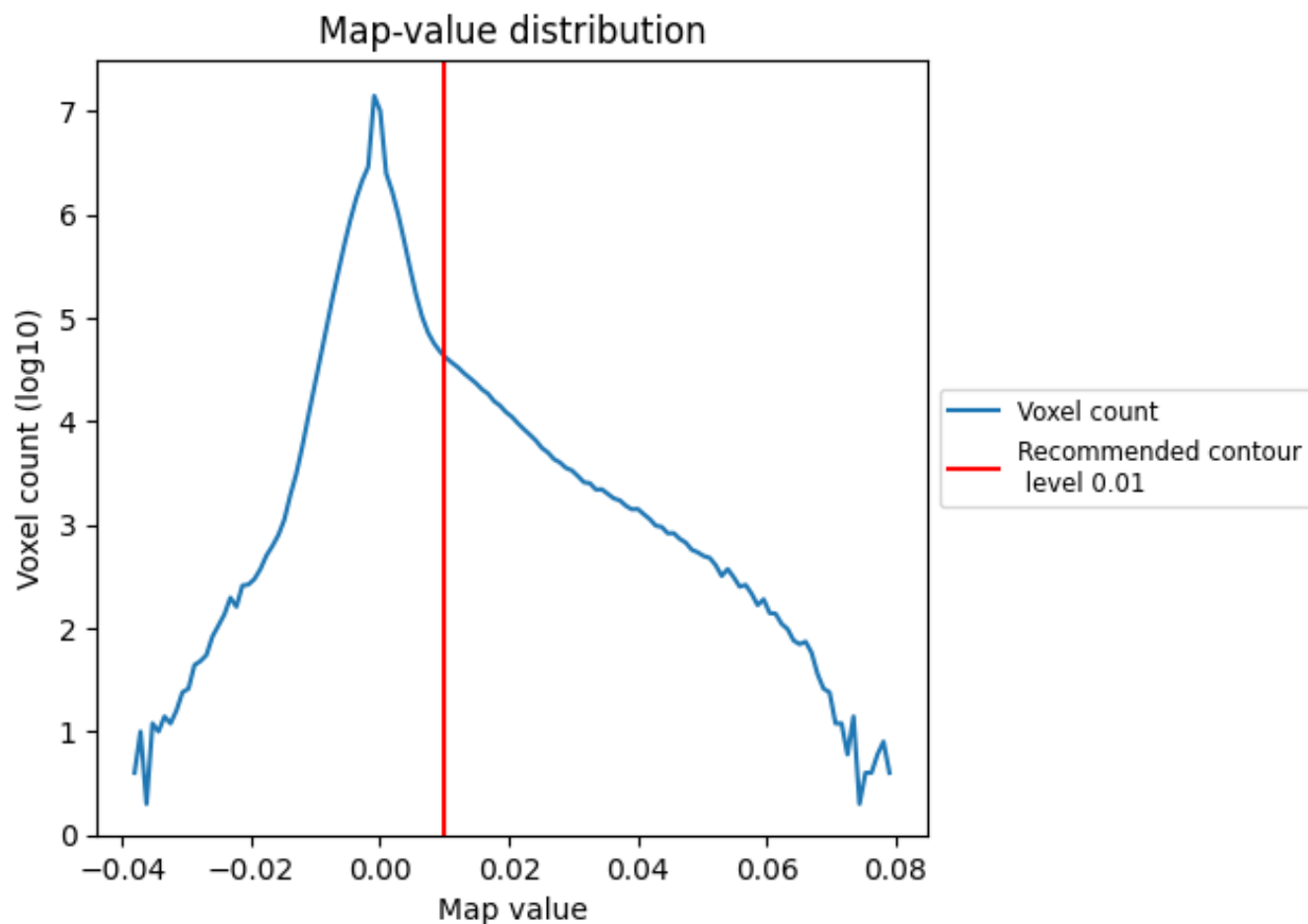
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

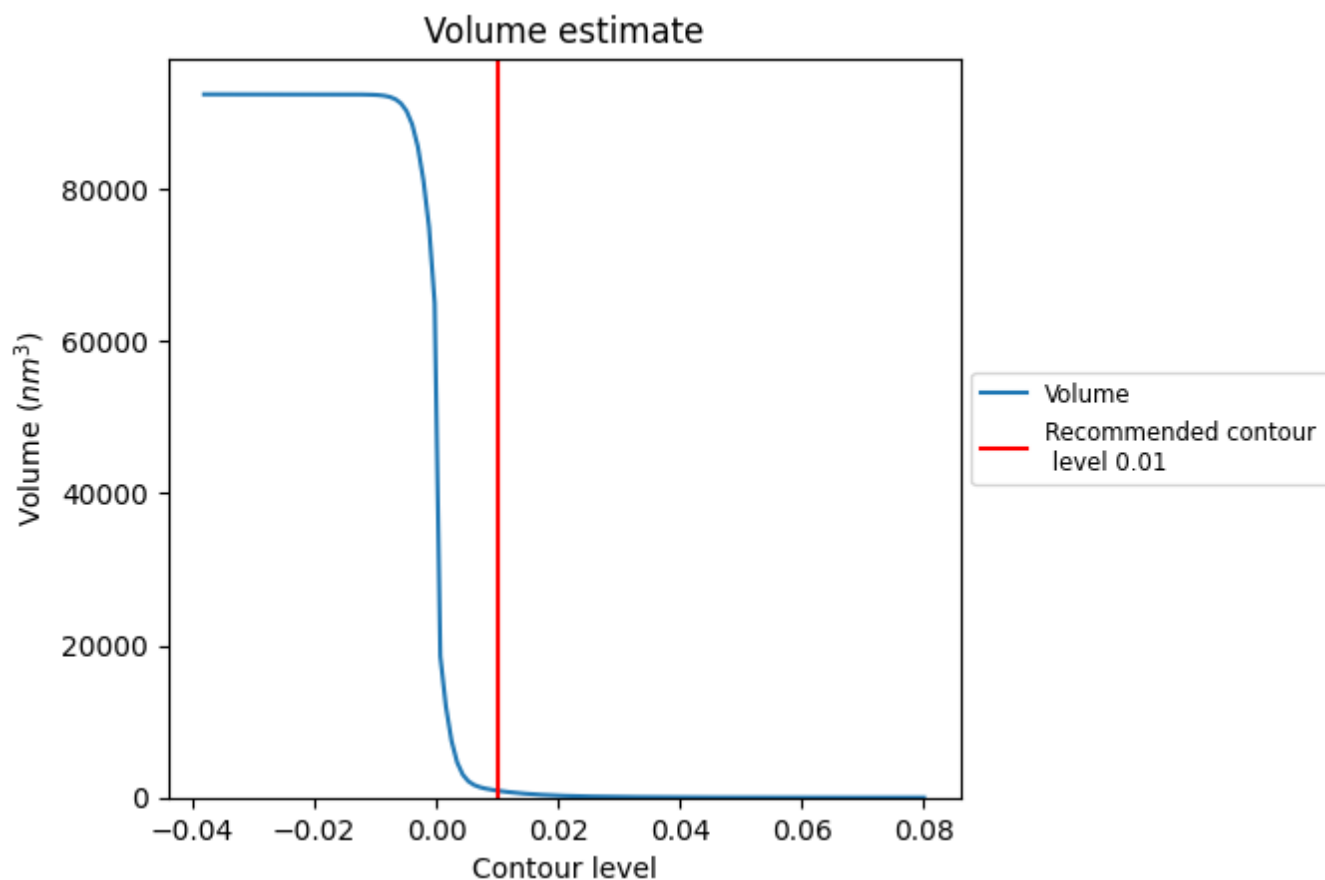
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

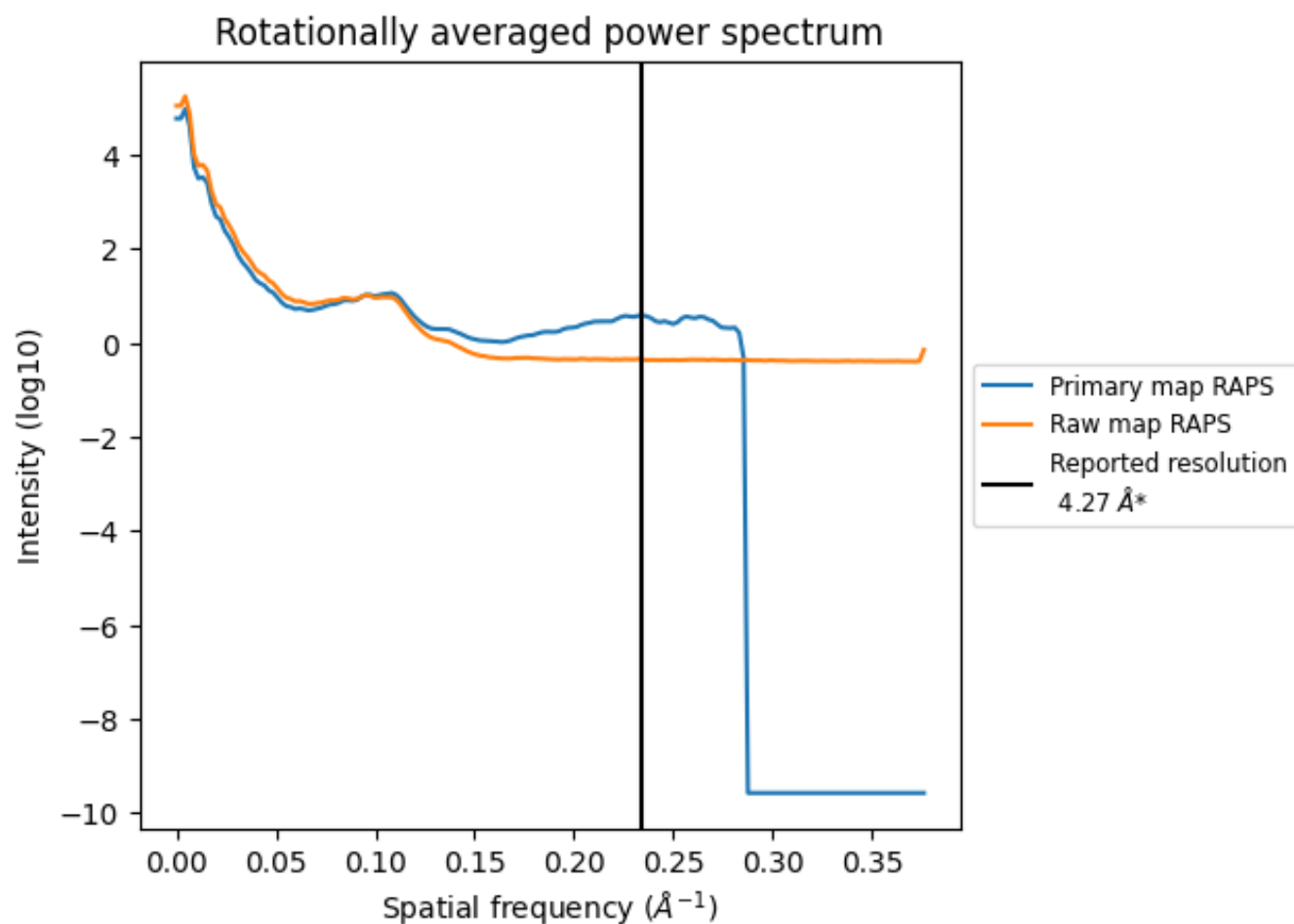
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 910 nm³; this corresponds to an approximate mass of 822 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

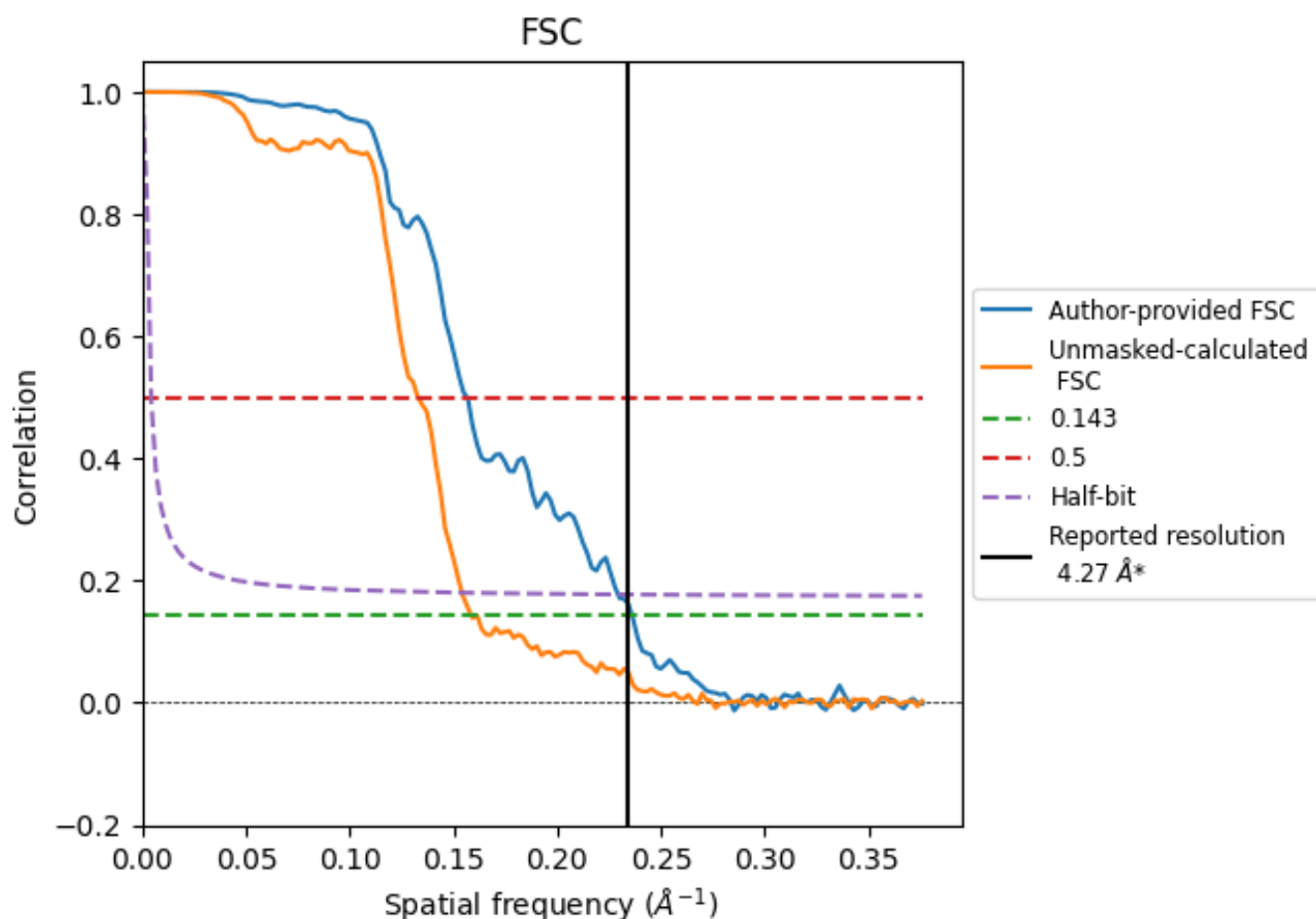


*Reported resolution corresponds to spatial frequency of 0.234 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.234 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

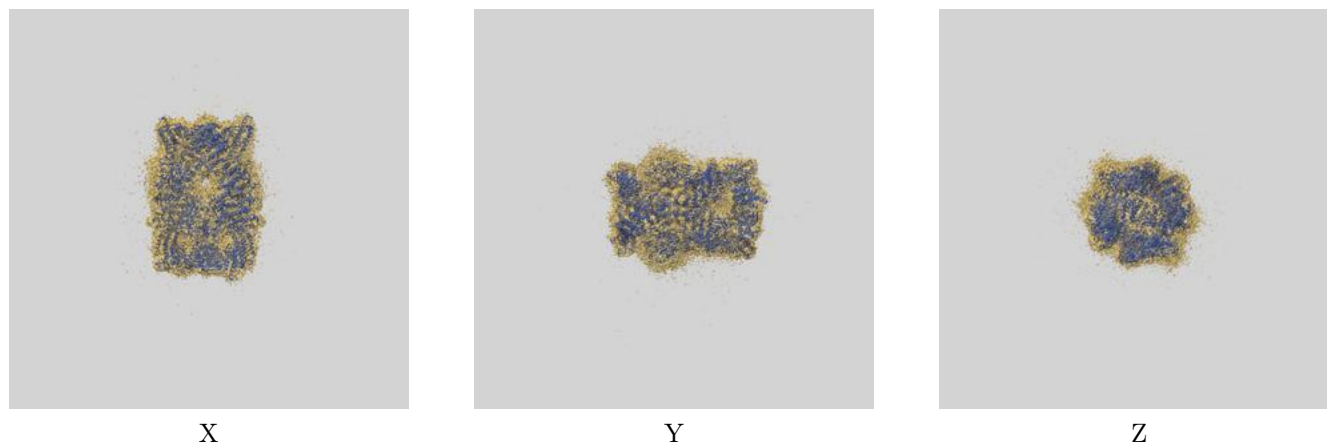
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.27	-	-
Author-provided FSC curve	4.24	6.39	4.36
Unmasked-calculated*	6.31	7.52	6.49

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 6.31 differs from the reported value 4.27 by more than 10 %

9 Map-model fit [i](#)

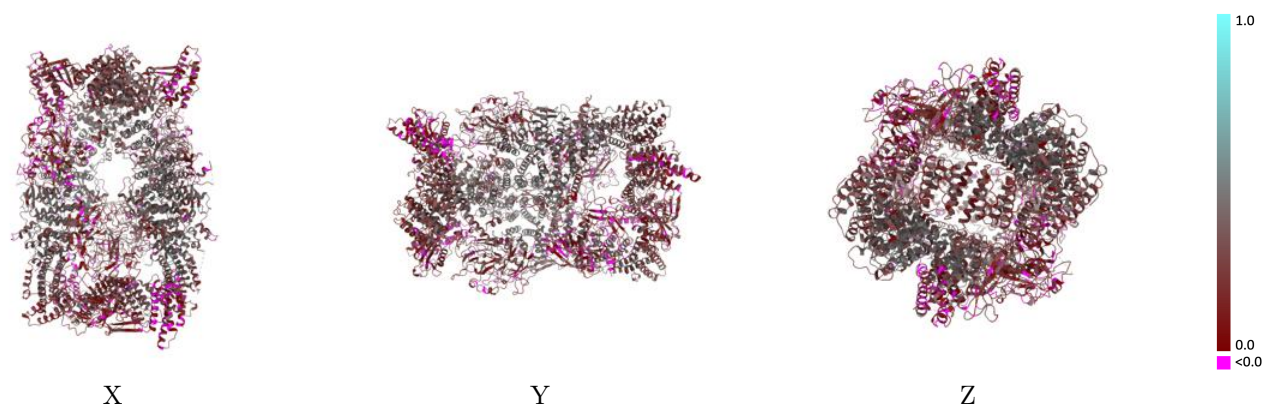
This section contains information regarding the fit between EMDB map EMD-65178 and PDB model 9VM6. Per-residue inclusion information can be found in section [3](#) on page [5](#).

9.1 Map-model overlay [i](#)



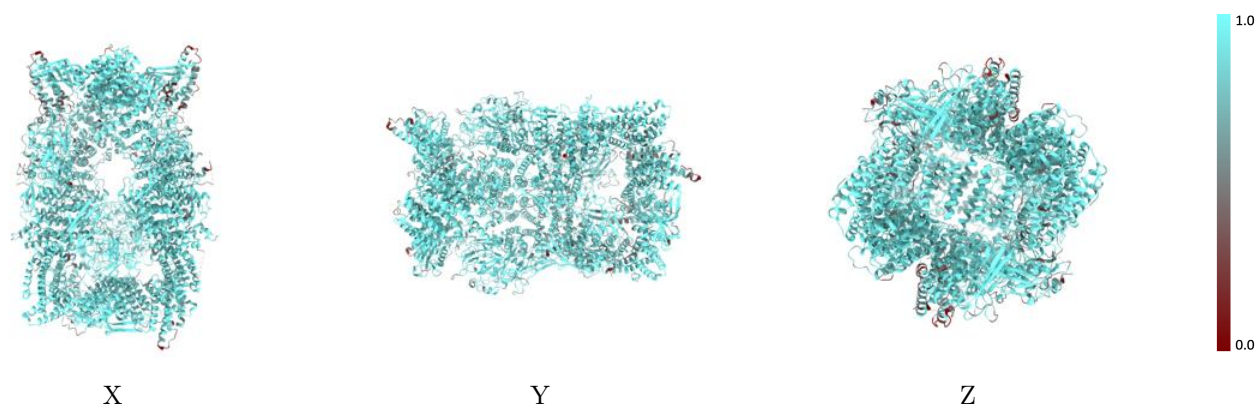
The images above show the 3D surface view of the map at the recommended contour level 0.01 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



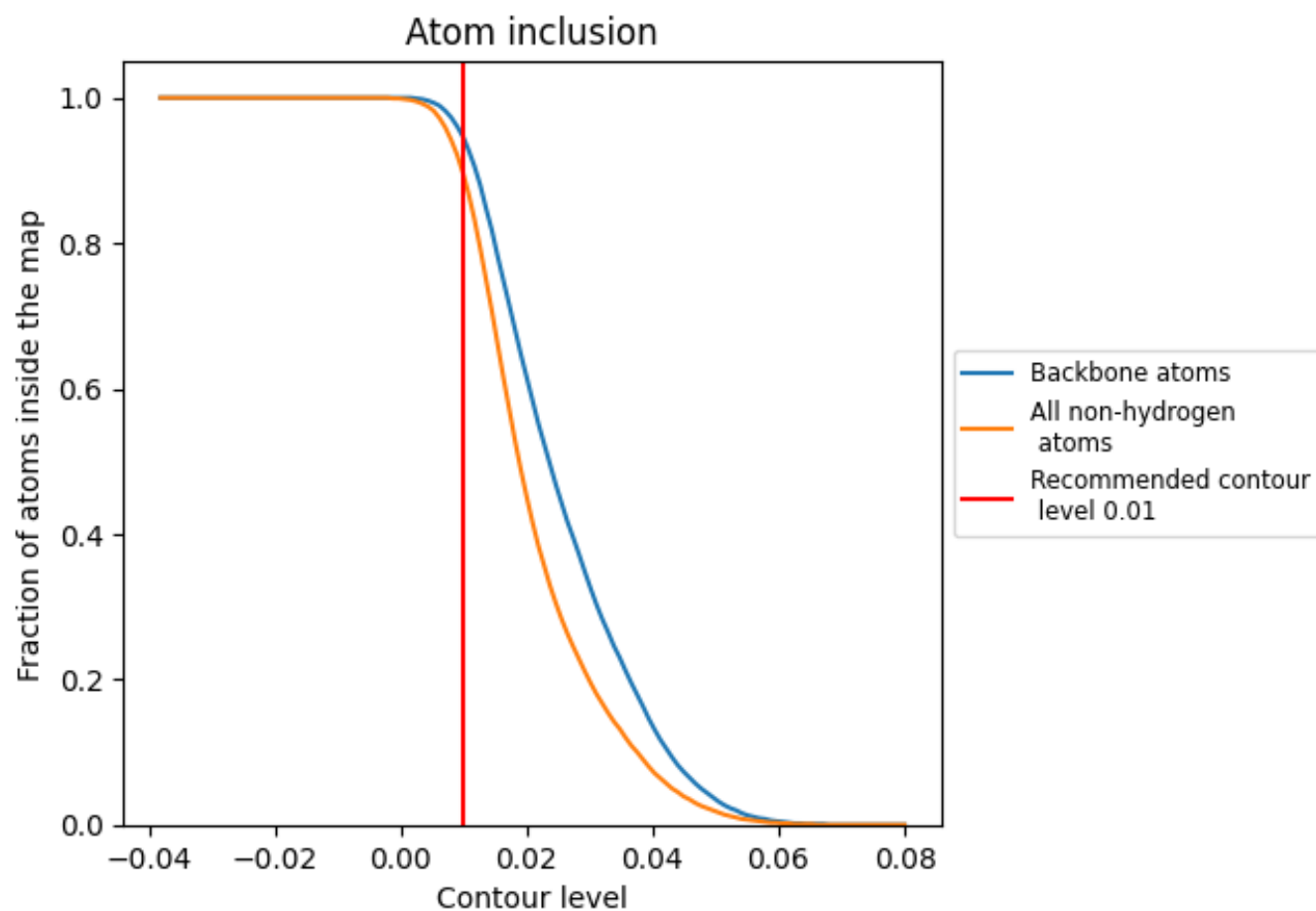
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.01).

9.4 Atom inclusion [i](#)



At the recommended contour level, 94% of all backbone atoms, 89% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.01) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8940	0.2700
A	0.8840	0.2410
B	0.8850	0.2430
C	0.9040	0.2990
D	0.9020	0.2980

