



Full wwPDB EM Validation Report ⓘ

Jun 18, 2024 – 04:23 PM JST

PDB ID : 8ZJM
EMDB ID : EMD-60150
Title : Structure of DOCK5/ELMO1/Rac1 core (RhoG/DOCK5/ELMO1/Rac1 dataset, class 5)
Authors : Kukimoto-Niino, M.; Katsura, K.; Ishizuka-Katsura, Y.; Mishima-Tsumagari, C.; Yonemochi, M.; Inoue, M.; Nakagawa, R.; Kaushik, R.; Zhang, K.Y.J.; Shirouzu, M.
Deposited on : 2024-05-15
Resolution : 4.52 Å (reported)
Based on initial model : 7DPA

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

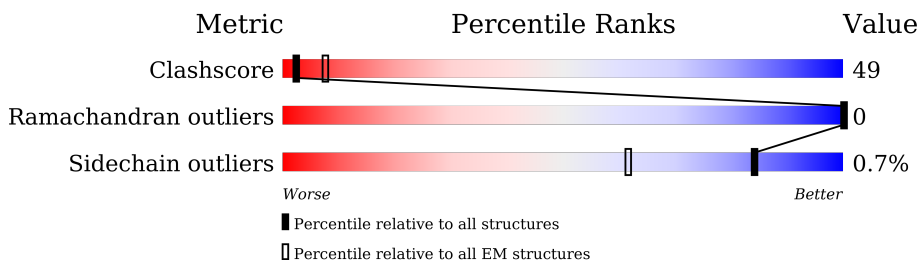
EMDB validation analysis : 0.0.1.dev92
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.37.1

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 4.52 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)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	733	
1	D	733	
2	B	1648	
2	E	1648	
3	C	184	
3	F	184	

2 Entry composition i

There are 3 unique types of molecules in this entry. The entry contains 32858 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 Engulfment and cell motility protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	198	1608	1018	277	303	10	0	0
1	D	198	1608	1018	277	303	10	0	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-5	GLY	-	expression tag	UNP Q92556
A	-4	GLY	-	expression tag	UNP Q92556
A	-3	SER	-	expression tag	UNP Q92556
A	-2	GLY	-	expression tag	UNP Q92556
A	-1	GLY	-	expression tag	UNP Q92556
A	0	SER	-	expression tag	UNP Q92556
D	-5	GLY	-	expression tag	UNP Q92556
D	-4	GLY	-	expression tag	UNP Q92556
D	-3	SER	-	expression tag	UNP Q92556
D	-2	GLY	-	expression tag	UNP Q92556
D	-1	GLY	-	expression tag	UNP Q92556
D	0	SER	-	expression tag	UNP Q92556

- Molecule 2 is a protein called Deducator of cytokinesis protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	B	1642	13436	8618	2264	2484	70	0	0
2	E	1642	13436	8618	2264	2484	70	0	0

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	-5	GLY	-	expression tag	UNP Q9H7D0

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Chain	Residue	Modelled	Actual	Comment	Reference
B	-4	GLY	-	expression tag	UNP Q9H7D0
B	-3	SER	-	expression tag	UNP Q9H7D0
B	-2	GLY	-	expression tag	UNP Q9H7D0
B	-1	GLY	-	expression tag	UNP Q9H7D0
B	0	SER	-	expression tag	UNP Q9H7D0
B	1285	ARG	LYS	variant	UNP Q9H7D0
E	-5	GLY	-	expression tag	UNP Q9H7D0
E	-4	GLY	-	expression tag	UNP Q9H7D0
E	-3	SER	-	expression tag	UNP Q9H7D0
E	-2	GLY	-	expression tag	UNP Q9H7D0
E	-1	GLY	-	expression tag	UNP Q9H7D0
E	0	SER	-	expression tag	UNP Q9H7D0
E	1285	ARG	LYS	variant	UNP Q9H7D0

- Molecule 3 is a protein called Ras-related C3 botulinum toxin substrate 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	C	177	1385	890	228	259	8	0	0
3	F	177	1385	890	228	259	8	0	0

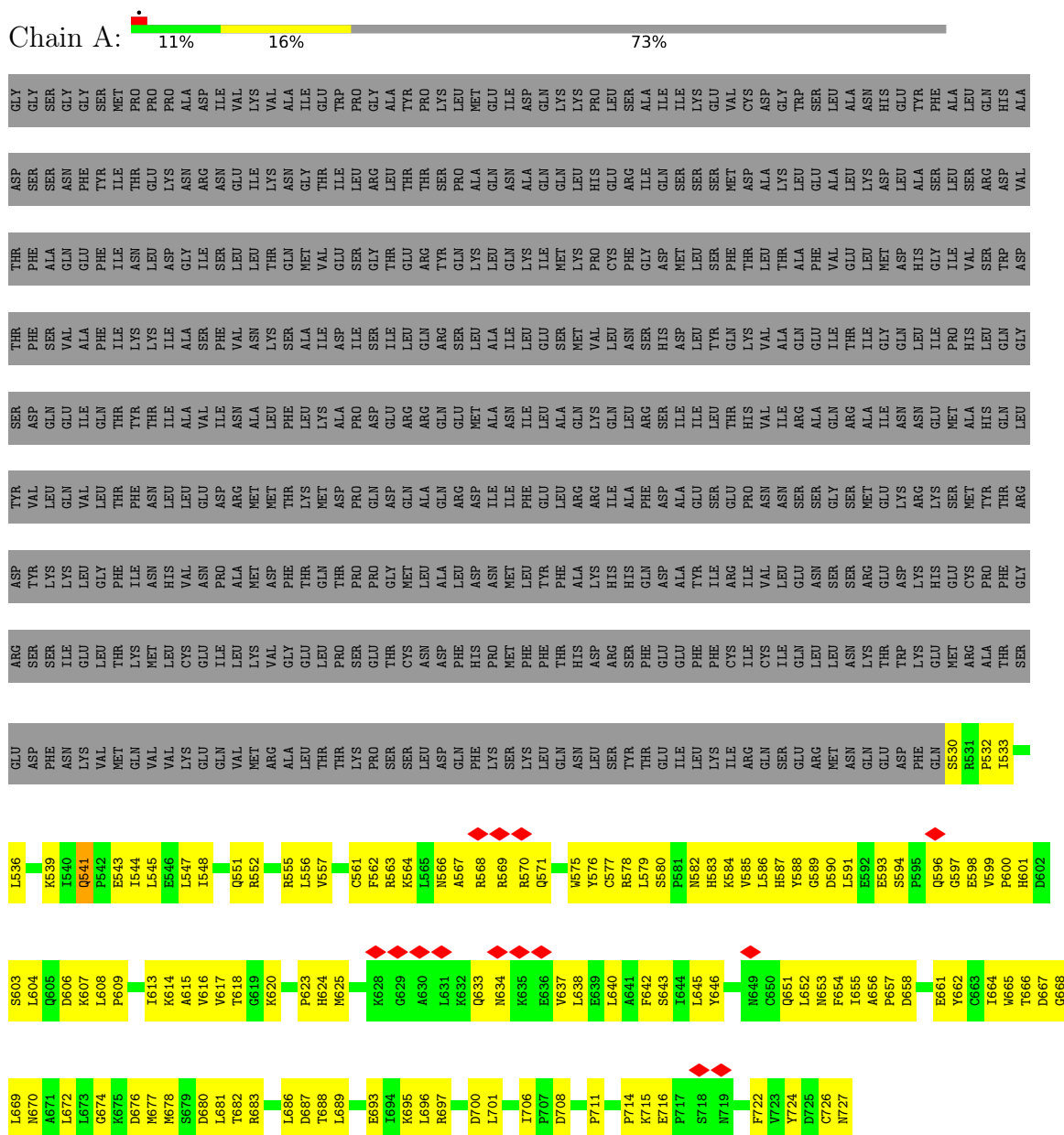
There are 16 discrepancies between the modelled and reference sequences:

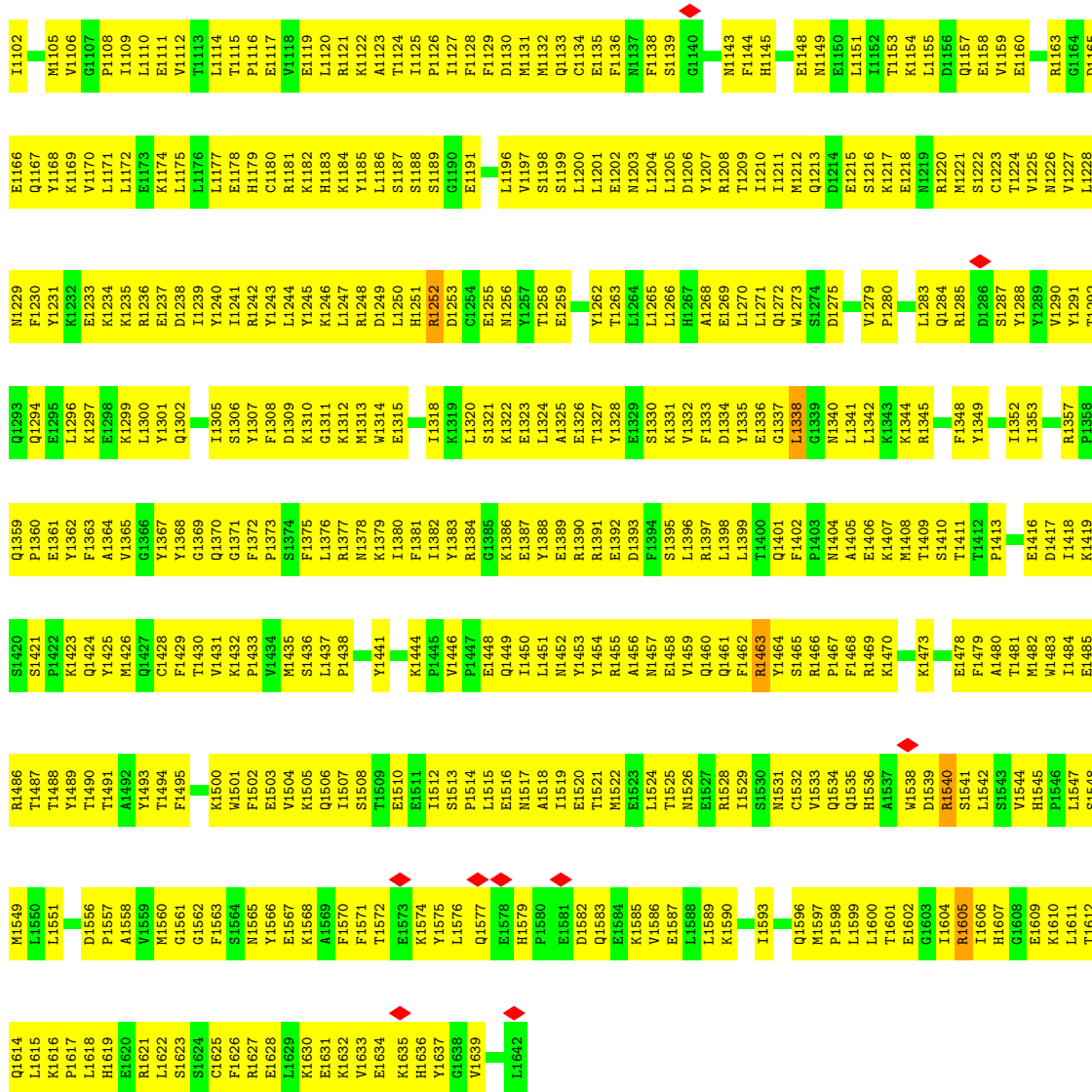
Chain	Residue	Modelled	Actual	Comment	Reference
C	-6	GLY	-	expression tag	UNP P63000
C	-5	SER	-	expression tag	UNP P63000
C	-4	SER	-	expression tag	UNP P63000
C	-3	GLY	-	expression tag	UNP P63000
C	-2	SER	-	expression tag	UNP P63000
C	-1	SER	-	expression tag	UNP P63000
C	0	GLY	-	expression tag	UNP P63000
C	15	ALA	GLY	engineered mutation	UNP P63000
F	-6	GLY	-	expression tag	UNP P63000
F	-5	SER	-	expression tag	UNP P63000
F	-4	SER	-	expression tag	UNP P63000
F	-3	GLY	-	expression tag	UNP P63000
F	-2	SER	-	expression tag	UNP P63000
F	-1	SER	-	expression tag	UNP P63000
F	0	GLY	-	expression tag	UNP P63000
F	15	ALA	GLY	engineered mutation	UNP P63000

3 Residue-property plots

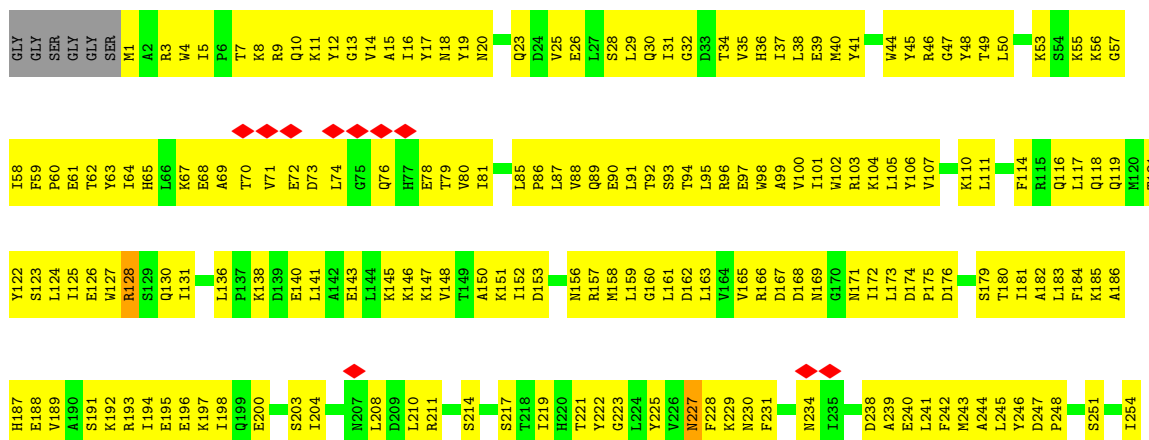
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: Engulfment and cell motility protein 1





● Molecule 2: Dedicator of cytokinesis protein 5



N1093	N1094	P1096	K1097	K1098	I1099	K1100	F1101	I1102	M1105	V1106	G1107	P1108	I1109	L1110	V1104	H1104	L1104	L1114	T1115	L1115	P1116	E1117	V1118	E1119	L1120	R1121	K1122	A1123	T1124	I1125	P1126	I1127	F1128	F1129	D1130	M1131	Q1133	C1134	E1135	F1136	N1137	F1138	S1139	G1140	N1143	F1144	H1145	E1148	N1149	E1150	L1151	I1152	T1153	K1154	L1155			
T1029	R1030	F1031	M1033	D1034	Q1035	A1036	E1039	L1040	Q1041	L1041	M1043	M1044	M1045	F1046	H1048	L1049	A1050	V1051	A1052	F1053	H1056	E1057	S1058	M1059	F1060	Q1061	L1062	T1063	P1064	S1065	Q1066	A1067	K1068	M1069	N1070	C1071	E1072	Y1076	G1077	D1078	M1079	R1080	K1081	E1082	L1083	F1085	R1086	I1087	L1088	D1089	M1090	M1091	K1154	L1155				
Q863	M964	D966	Y969	S970	H971	Y972	I973	S974	T975	F976	K977	R979	I982	E983	D984	F985	M986	M987	E988	T989	F990	I991	M992	F993	K994	D995	L996	I997	G998	K999	Y1002	M1006	M1007	V1008	M1009	M1010	M1011	T1012	Q1013	M1014	R1015	V1016	F1017	L1018	R1019	N1022	Q1023	F1024	A1025	E1026	M1027	L1028						
H899	S902	S903	Q904	L905	L906	S907	R908	Q909	L910	E911	V912	L913	D914	R915	G918	A920	T921	A922	H924	I925	Q926	L927	M928	N929	E930	R931	L932	L933	R934	R935	I936	R937	R938	Y939	V940	Q941	G942	R943	R944	R945	Q946	H949	I950	F953	V954	G955	Q957	F1058	L1059	M1099	L1155							
D888	E885	L886	S887	V888	L889	F890	C891	F892	F893	G894	S895	S896	R897	M898	S899	K856	R792	Q793	L794	C859	M880	A797	F798	K799	M800	L801	M802	D803	R804	F869	R870	R935	I936	R937	R938	Y939	V940	Q941	G942	R943	R944	R945	Q946	H949	I950	F953	V954	G955	Q957	F1058	L1059	M1099	L1155					
D636	L637	L638	G639	L640	L641	M642	M643	R644	S645	M646	S647	M648	M649	L650	K651	M652	M653	L654	M655	K656	M657	M658	E659	V660	D661	G662	G663	E664	L665	V666	K667	F668	L669	M670	D671	T672	D674	A675	L676	F677	M678	L679	M680	M681	D690	F691	L692	V693	F694	D695	A696	L697	V698	F699	L700	I701		
D575	N576	K577	K578	M579	E580	D581	A582	K583	F584	Y585	L586	T587	L588	P589	G590	T591	K592	E594	M595	E596	E597	K598	E599	L600	Q601	A602	S603	M604	K605	L606	V607	T608	F609	T610	P611	S612	K613	D614	S615	T616	K617	D618	S619	F620	Q621	L622	A623	T624	L625	I626	C627	S628	T629	K630	L631	T632	Q633	
W509	Y510	E511	T512	V513	K514	L517	A518	I519	E520	G521	V522	T523	R524	C525	H526	I527	R528	F529	T530	F531	R532	H533	R534	S535	S536	Q537	R538	T539	R540	D541	K542	S543	R544	R545	A546	F547	G548	V549	A550	F551	V552	K553	L554	M555	N556	T560	T561	L562	G565	L569	V570	V571	Y572	K573	G574			
I446	Y447	V448	L449	L450	I451	F455	D456	K457	G458	K459	K460	K461	T462	P463	K464	M465	V466	V467	V468	M470	G471	V472	H473	D474	E475	F476	K477	K478	L479	L480	E481	K482	A483	I484	H485	P486	A488	G489	Y490	E491	G492	I493	S494	M495	Y496	K497	S498	V499	I499	I499	V500	Y501	Y502	Q503	V504	K505	Q506	
T380	L383	R320	R321	F322	V326	A388	A389	K390	E391	I329	T330	D331	I332	I333	K336	V337	D338	D339	E340	E341	K342	Q343	H344	F345	I346	F347	F348	Q349	Q350	I351	K352	M353	E354	T355	H356	I357	R358	Q359	R360	Q361	L362	I363	M364	S365	F366	L367	I368	T369	M306	S370	H371	V372	I373	G374	N376	E377	P378	L379
E256	N257	Y258	L259	I260	R261	W262	G263	S264	N265	G266	M267	P268	K269	E270	I271	E272	K273	L274	N275	N276	L277	Q278	A279	V280	F281	T282	E283	L284	S285	S286	M287	D288	L289	I290	R291	R292	R293	V294	L296	V297	C298	Q299	R302	V303	G304	H305	M306	E307	L308	K309	E310	G311	K312	K313	H314	T315		

D1156	Q1157	M1221	E1158	V1159	E1160	R1163	G1164	D1165	E1166	F1230	Q1167	Y1168	K1169	V1170	L1171	L1172	E1173	K1174	E1237	D1238	L1239	Y1240	I1241	R1242	Y1243	L1244	Y1245	K1182	H1183	K1184	Y1185	D1248	L1250	S1187	S1188	S1189	D1252	D1253	E1255	Y1256	L1196	V1197	S1198	E1259	A1260	L1200	A1261	E1262	T1202	M1203	L1204	L1205	D1206	Y1207	R1208	E1209	L1210	L1211	M1212	Q1213	D1214	S1215	S1216	K1217	E1218	M1219
R1220	M1221	S1222	C1223	T1224	V1225	M1226	V1227	L1228	M1229	F1230	Y1231	K1232	E1233	K1234	L1235	R1236	E1237	D1238	L1239	Y1240	I1241	R1242	Y1243	L1244	Y1245	K1246	L1247	R1248	D1249	L1250	L1251	R1252	D1253	E1255	Y1256	L1321	K1322	E1323	A1325	R1326	T1327	Y1328	E1329	S1330	K1331	L1332	F1333	D1334	Y1335	T1336	Q1337	L1338	G1339	M1340	L1341	L1342	K1343	M1344								
L1283	Q1284	R1285	D1286	L1287	Y1288	Y1289	V1290	L1291	T1292	Q1293	Q1294	E1295	L1296	K1297	E1298	L1299	L1300	Y1301	Q1302	I1305	S1306	H1179	Y1307	F1308	D1309	K1310	G1311	L1312	M1313	Y1314	E1315	I1316	I1317	K1318	L1319	L1320	S1321	K1322	L1323	A1325	R1326	T1327	Y1328	E1329	S1330	K1331	L1332	F1333	D1334	Y1335	T1336	Q1337	L1338	G1339	M1340	L1341	L1342	K1343	M1344							
R1345	F1346	Y1347	Y1348	L1349	L1350	R1351	Q1352	Q1353	Q1354	Q1355	Q1356	Q1357	Q1358	Q1359	Q1360	Q1361	Q1362	Q1363	Q1364	Q1365	Q1366	Q1367	Q1368	Q1369	Q1370	Q1371	Q1372	Q1373	Q1374	Q1375	Q1376	Q1377	Q1378	Q1379	Q1380	Q1381	Q1382	Q1383	Q1384	Q1385	Q1386	Q1387	Q1388	Q1389	Q1390	Q1391	Q1392	Q1393	Q1394	Q1395	Q1396	Q1397	Q1398	Q1399	Q1400	Q1401	Q1402	Q1403	Q1404	Q1405	Q1406	Q1407	Q1408			
T1409	S1410	T1411	T1412	P1413	E1414	D1417	L1418	L1419	S1420	S1421	E1422	K1423	Q1424	Y1425	A1426	Q1427	C1428	F1429	T1430	Y1431	K1432	P1433	V1434	M1435	S1436	L1437	P1438	Y1439	K1440	P1441	P1442	E1443	Q1444	L1445	L1446	L1447	L1448	L1449	L1450	L1451	L1452	L1453	L1454	L1455	L1456	L1457	L1458	L1459	L1460	L1461	L1462	R1463	Y1464	S1465	R1466	P1467	F1468	L1469	K1470	M1471						
K1473	F1474	A1475	A1476	M1477	L1478	R1479	L1480	L1481	S1482	L1483	L1484	L1485	R1486	L1487	L1488	L1489	L1490	L1491	A1492	Y1493	L1494	F1495	K1500	W1501	F1502	E1503	L1504	K1505	Q1506	L1507	S1508	T1509	E1510	E1511	L1512	S1513	P1514	L1515	L1516	L1517	A1518	L1519	E1520	Y1521	L1522	E1523	L1524	T1525	L1526	E1527	R1528	L1529	S1530	M1531	C1532	Y1533	Q1534	L1535	P1536	H1537	W1538	L1539				
R1540	S1541	L1542	S1543	V1544	H1545	P1546	L1547	S1548	M1549	L1550	L1551	D1552	A1553	A1554	G1555	F1556	F1557	G1558	G1559	F1560	S1561	Y1562	F1563	S1564	M1565	Y1566	E1567	K1568	A1569	F1570	L1571	Y1572	E1573	K1574	Y1575	L1576	Q1577	E1578	H1579	P1580	E1581	D1582	Q1583	E1584	K1585	V1586	E1587	L1588	L1589	K1590	T1591	T1592	T1593	Q1594	M1595	M1596	P1597	P1598	L1599	L1600	L1601	E1602	G1603	L1604	R1605	
I1606	H1607	G1608	E1609	K1610	L1611	L1612	E1613	Q1614	L1615	M1616	L1617	L1618	H1619	E1620	L1621	L1622	S1623	S1624	G1625	F1626	R1627	E1628	L1629	E1630	E1631	K1632	L1633	E1634	K1635	H1636	L1637	V1638	L1639	L1640	L1641	L1642																														

• Molecule 3: Ras-related C3 botulinum toxin substrate 1

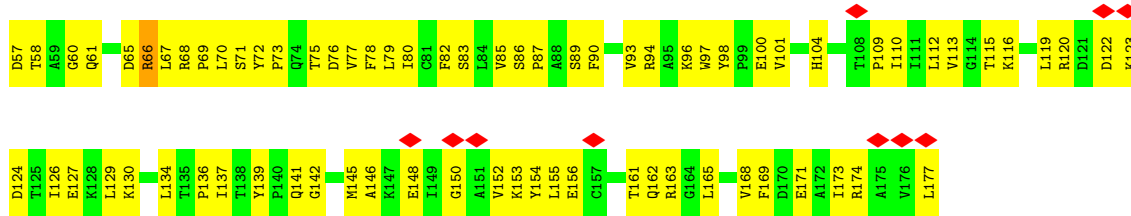


GLY	SER	GLY	SER	GLY	SER	GLY	M1	Q2	A3	I4	K5	C6	V7	V8	V9	G10	D11	G12	A13	V14	A15	K16	T17	L20	I21	Y22	T23	T24	T25	N26	A27	F28	P29	R30	A31	K32	I33	P34	T35	V36	F37	D38	N39	Y40	S41	A42	N43	V44	M45	V46	D47	G48	K49	P50	V51	N52	L53	L54	D122
K56	D57	T58	A59	G60	Q61	D65	R66	L67	R68	P69	L70	S71	Y72	P73	T74	D75	D76	V77	F78	L79	I80	C81	F82	S83	L84	W85	S86	R87	P88	F90	Y93	R94	A95	K96	H97	Y98	P99	E100	V101	H104	M107	T108	P109	L110	I111	L112	L113	G114	T115	K116	L119	R120	D121	D122					
K123	D124	T125	I126	E127	K128	L129	K130	L134	T136	P136	I137	L138	Y139	P140	Q141	G142	L143	A144	M145	A146	K147	E148	L149	G150	A151	V152	K153	Y154	L155	E156	C157	T161	Q162	R163	G164	L165	K166	T167	V168	F169	D170	E171	A172	L173	R174	A175	V176	L177											

• Molecule 3: Ras-related C3 botulinum toxin substrate 1



GLY	SER	GLY	SER	GLY	SER	GLY	M1	Q2	A3	I4	K5	C6	V7	V8	V9	G10	D11	G12	A13	V14	A15	K16	T17	L20	I21	Y22	T23	T24	T25	N26	A27	F28	P29	R30	A31	K32	I33	P34	T35	V36	F37	D38	N39	Y40	S41	A42	N43	V44	M45	V46	K49	P50	V51	N52	L53	L54	W56
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4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of particles used	156585	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	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	0.052	Depositor
Minimum map value	-0.015	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.002	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 [i](#)

5.1 Standard geometry [i](#)

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	0.33	0/1641	0.55	0/2218
1	D	0.33	0/1641	0.56	0/2218
2	B	0.36	0/13722	0.54	1/18514 (0.0%)
2	E	0.36	0/13722	0.54	1/18514 (0.0%)
3	C	0.32	0/1415	0.50	0/1924
3	F	0.32	0/1415	0.50	0/1924
All	All	0.35	0/33556	0.54	2/45312 (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	D	0	1
2	B	0	1
2	E	0	1
All	All	0	4

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	E	1338	LEU	CA-CB-CG	5.62	128.24	115.30
2	B	1338	LEU	CA-CB-CG	5.61	128.19	115.30

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	541	GLN	Peptide

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Mol	Chain	Res	Type	Group
2	B	1041	GLN	Peptide
1	D	541	GLN	Peptide
2	E	1041	GLN	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1608	0	1617	136	0
1	D	1608	0	1617	148	0
2	B	13436	0	13516	1369	0
2	E	13436	0	13516	1393	0
3	C	1385	0	1407	129	0
3	F	1385	0	1407	128	0
All	All	32858	0	33080	3217	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 49.

All (3217) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:929:MET:HA	2:E:933:LEU:HD13	1.43	1.01
1:A:701:LEU:HD23	2:B:31:ILE:HG23	1.43	1.00
2:B:929:MET:HA	2:B:933:LEU:HD13	1.43	0.99
2:E:1545:HIS:HB2	3:F:5:LYS:HE2	1.49	0.95
2:E:657:LEU:HD23	2:E:696:ALA:HB1	1.51	0.93
1:A:711:PRO:HG2	2:B:16:ILE:HG21	1.50	0.92
2:B:657:LEU:HD23	2:B:696:ALA:HB1	1.51	0.92
2:E:1587:GLU:HA	2:E:1590:LYS:HD2	1.53	0.91
2:E:102:TRP:HB2	2:E:114:PHE:HE1	1.36	0.91
2:B:5:ILE:H	2:B:40:MET:H	1.19	0.90
2:E:1484:ILE:HB	2:E:1512:ILE:HD12	1.53	0.90
2:B:657:LEU:HD21	2:B:700:ILE:HD11	1.54	0.90
2:B:1587:GLU:HA	2:B:1590:LYS:HD2	1.53	0.89
2:B:102:TRP:HB2	2:B:114:PHE:HE1	1.36	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:5:ILE:H	2:E:40:MET:H	1.19	0.88
2:B:1526:ASN:HA	2:B:1529:ILE:HD12	1.56	0.88
2:B:1484:ILE:HB	2:B:1512:ILE:HD12	1.53	0.88
2:E:10:GLN:HG3	2:E:37:ILE:HB	1.56	0.87
2:E:1526:ASN:HA	2:E:1529:ILE:HD12	1.56	0.87
2:B:239:ALA:HB3	2:B:262:TRP:HB3	1.57	0.87
2:E:657:LEU:HD21	2:E:700:ILE:HD11	1.54	0.87
2:B:10:GLN:HG3	2:B:37:ILE:HB	1.56	0.85
3:C:87:PRO:HG2	3:C:134:LEU:HB3	1.58	0.85
1:D:580:SER:HA	1:D:587:HIS:HE1	1.41	0.85
2:E:239:ALA:HB3	2:E:262:TRP:HB3	1.57	0.85
2:B:764:PHE:HD2	2:B:767:ILE:HD12	1.41	0.85
2:E:738:ASN:HA	2:E:794:LEU:HD13	1.58	0.85
1:A:580:SER:HA	1:A:587:HIS:HE1	1.42	0.85
2:B:376:ASN:ND2	2:B:502:TYR:O	2.10	0.84
2:B:738:ASN:HA	2:B:794:LEU:HD13	1.59	0.84
3:C:171:GLU:HA	3:C:174:ARG:HG2	1.59	0.83
2:E:677:PHE:HB3	2:E:726:ALA:HB2	1.60	0.83
2:E:764:PHE:HD2	2:E:767:ILE:HD12	1.41	0.83
2:E:166:ARG:NH1	2:E:167:ASP:OD1	2.11	0.83
2:E:376:ASN:ND2	2:E:502:TYR:O	2.11	0.83
3:C:65:ASP:HA	3:C:68:ARG:HG2	1.61	0.83
2:B:166:ARG:NH1	2:B:167:ASP:OD1	2.11	0.83
2:B:1567:GLU:HA	2:B:1571:PHE:HB2	1.61	0.83
3:F:87:PRO:HG2	3:F:134:LEU:HB3	1.58	0.83
2:B:242:PHE:HB2	2:B:299:GLN:HB2	1.61	0.83
2:E:4:TRP:HB3	2:E:39:GLU:HB3	1.61	0.82
2:E:1418:ILE:HG13	2:E:1425:TYR:CD2	2.15	0.82
2:B:1418:ILE:HG13	2:B:1425:TYR:CD2	2.15	0.82
3:C:1:MET:SD	3:C:49:LYS:NZ	2.51	0.82
2:B:677:PHE:HB3	2:B:726:ALA:HB2	1.60	0.82
2:E:242:PHE:HB2	2:E:299:GLN:HB2	1.61	0.82
3:F:65:ASP:HA	3:F:68:ARG:HG2	1.61	0.82
3:F:1:MET:SD	3:F:49:LYS:NZ	2.51	0.82
2:B:1557:PRO:HB2	2:B:1561:GLY:HA2	1.62	0.82
3:C:7:VAL:HA	3:C:56:TRP:HB2	1.61	0.82
2:E:730:TYR:HA	2:E:767:ILE:HG23	1.61	0.82
2:E:1006:TRP:O	2:E:1010:ASN:N	2.12	0.81
3:F:96:LYS:HD2	3:F:100:GLU:HG3	1.62	0.81
2:B:4:TRP:HB3	2:B:39:GLU:HB3	1.61	0.81
2:E:1557:PRO:HB2	2:E:1561:GLY:HA2	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1432:LYS:N	2:B:1463:ARG:O	2.12	0.81
1:D:551:GLN:OE1	1:D:552:ARG:NH2	2.14	0.81
3:C:96:LYS:HD2	3:C:100:GLU:HG3	1.62	0.81
3:F:171:GLU:HA	3:F:174:ARG:HG2	1.59	0.81
2:B:1251:HIS:HB3	2:B:1256:ASN:HB2	1.62	0.81
2:B:1006:TRP:O	2:B:1010:ASN:N	2.12	0.81
2:E:1314:TRP:HB3	2:E:1348:PHE:HB3	1.61	0.81
2:B:1444:LYS:NZ	2:E:1330:SER:O	2.13	0.81
3:F:7:VAL:HA	3:F:56:TRP:HB2	1.61	0.81
2:B:730:TYR:HA	2:B:767:ILE:HG23	1.61	0.81
2:E:1567:GLU:HA	2:E:1571:PHE:HB2	1.61	0.80
1:A:551:GLN:OE1	1:A:552:ARG:NH2	2.14	0.80
2:B:165:VAL:HG23	2:B:175:PRO:HD3	1.62	0.80
2:B:1314:TRP:HB3	2:B:1348:PHE:HB3	1.61	0.80
2:B:241:LEU:HB2	2:B:260:ILE:HB	1.63	0.80
2:E:347:PRO:HB2	2:E:392:VAL:HB	1.64	0.80
2:E:1561:GLY:O	2:E:1565:ASN:N	2.15	0.80
2:E:1251:HIS:HB3	2:E:1256:ASN:HB2	1.62	0.80
2:B:1382:ILE:N	2:B:1502:PHE:O	2.15	0.79
2:E:1488:THR:HB	2:E:1508:SER:HB2	1.64	0.79
2:E:1169:LYS:HA	2:E:1172:LEU:HD12	1.65	0.79
1:A:724:TYR:HB3	2:B:4:TRP:HB2	1.63	0.79
2:E:165:VAL:HG23	2:E:175:PRO:HD3	1.62	0.79
2:E:241:LEU:HB2	2:E:260:ILE:HB	1.63	0.79
2:E:1382:ILE:N	2:E:1502:PHE:O	2.15	0.79
2:E:467:GLU:HB2	2:E:500:VAL:HG22	1.65	0.79
2:E:740:TYR:HA	2:E:749:LYS:HD3	1.65	0.79
2:E:1357:ARG:HH22	2:E:1456:ALA:H	1.31	0.79
2:E:1283:LEU:O	2:E:1285:ARG:NH1	2.16	0.79
3:C:77:VAL:HG12	3:C:109:PRO:HG2	1.65	0.79
2:B:1128:PHE:HA	2:B:1131:MET:SD	2.23	0.79
2:E:1128:PHE:HA	2:E:1131:MET:SD	2.23	0.79
2:B:347:PRO:HB2	2:B:392:VAL:HB	1.64	0.79
2:E:18:ASN:HB3	2:E:28:SER:HB2	1.63	0.78
2:E:1378:ASN:ND2	2:E:1419:LYS:O	2.16	0.78
2:E:889:GLN:OE1	2:E:895:ASN:ND2	2.17	0.78
2:B:1169:LYS:HA	2:B:1172:LEU:HD12	1.65	0.78
2:B:889:GLN:OE1	2:B:895:ASN:ND2	2.17	0.78
2:B:929:MET:HG2	2:B:933:LEU:HD22	1.66	0.78
2:B:1291:TYR:HB3	2:B:1296:LEU:HD21	1.65	0.78
1:A:637:VAL:HG12	1:A:640:LEU:HD12	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:18:ASN:HB3	2:B:28:SER:HB2	1.63	0.78
1:D:637:VAL:HG12	1:D:640:LEU:HD12	1.65	0.77
2:B:740:TYR:HA	2:B:749:LYS:HD3	1.65	0.77
2:E:46:ARG:HB3	2:E:58:ILE:HG13	1.67	0.77
3:F:77:VAL:HG12	3:F:109:PRO:HG2	1.65	0.77
2:B:1283:LEU:O	2:B:1285:ARG:NH1	2.16	0.77
1:D:640:LEU:HB3	1:D:656:ALA:H	1.49	0.77
2:B:467:GLU:HB2	2:B:500:VAL:HG22	1.65	0.77
2:E:929:MET:HG2	2:E:933:LEU:HD22	1.66	0.77
2:B:1378:ASN:ND2	2:B:1419:LYS:O	2.16	0.77
2:E:1291:TYR:HB3	2:E:1296:LEU:HD21	1.65	0.77
1:D:698:LEU:HA	2:E:31:ILE:HG21	1.66	0.77
2:E:764:PHE:CD2	2:E:767:ILE:HD12	2.20	0.77
2:E:1407:LYS:HG3	2:E:1426:MET:HB2	1.67	0.77
2:E:1056:HIS:ND1	2:E:1057:GLU:OE2	2.17	0.77
2:B:764:PHE:CD2	2:B:767:ILE:HD12	2.20	0.77
2:B:1056:HIS:ND1	2:B:1057:GLU:OE2	2.17	0.77
2:B:1488:THR:HB	2:B:1508:SER:HB2	1.64	0.77
2:E:1524:LEU:HD12	2:E:1528:ARG:HH21	1.49	0.77
1:D:701:LEU:HD11	2:E:16:ILE:HA	1.66	0.77
3:F:2:GLN:HG2	3:F:51:VAL:HG23	1.67	0.77
2:B:1357:ARG:HE	2:B:1453:TYR:HA	1.50	0.76
2:E:37:ILE:HA	2:E:47:GLY:HA3	1.68	0.76
1:A:670:ASN:ND2	1:A:676:ASP:O	2.19	0.76
1:A:640:LEU:HB3	1:A:656:ALA:H	1.50	0.76
2:B:816:ALA:O	2:B:820:LEU:HB2	1.86	0.76
2:B:1028:LEU:HD21	2:B:1042:LEU:HD23	1.68	0.76
2:E:1155:LEU:HD11	2:E:1201:LEU:HD21	1.68	0.76
2:B:904:GLN:O	2:B:908:ASN:ND2	2.19	0.76
2:E:921:THR:O	2:E:925:ILE:N	2.19	0.76
2:B:37:ILE:HA	2:B:47:GLY:HA3	1.68	0.76
2:B:61:GLU:HA	2:B:64:ILE:HB	1.68	0.76
2:B:1524:LEU:HD12	2:B:1528:ARG:HH21	1.49	0.76
2:E:1357:ARG:HE	2:E:1453:TYR:HA	1.50	0.76
2:E:1252:ARG:NH1	2:E:1253:ASP:OD1	2.19	0.76
2:B:676:LEU:HA	2:B:679:ILE:HD12	1.68	0.76
2:B:1407:LYS:HG3	2:B:1426:MET:HB2	1.67	0.76
2:B:921:THR:O	2:B:925:ILE:N	2.19	0.76
2:B:1357:ARG:HH22	2:B:1456:ALA:H	1.31	0.76
2:B:1490:THR:O	2:B:1505:LYS:N	2.19	0.76
2:B:1561:GLY:O	2:B:1565:ASN:N	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:13:GLY:HA3	2:E:35:VAL:HG22	1.67	0.76
2:E:1490:THR:O	2:E:1505:LYS:N	2.19	0.76
2:B:1436:SER:HB3	2:B:1454:TYR:HB3	1.68	0.75
2:E:816:ALA:O	2:E:820:LEU:HB2	1.86	0.75
2:B:1155:LEU:HD11	2:B:1201:LEU:HD21	1.68	0.75
2:E:25:VAL:HG23	2:E:57:GLY:HA2	1.69	0.75
2:B:46:ARG:HB3	2:B:58:ILE:HG13	1.67	0.75
2:E:1028:LEU:HD21	2:E:1042:LEU:HD23	1.68	0.75
2:E:904:GLN:O	2:E:908:ASN:ND2	2.19	0.75
2:B:13:GLY:HA3	2:B:35:VAL:HG22	1.67	0.75
2:B:1252:ARG:NH1	2:B:1253:ASP:OD1	2.19	0.75
3:C:2:GLN:HG2	3:C:51:VAL:HG23	1.67	0.75
2:E:163:LEU:HD21	2:E:194:ILE:HD11	1.69	0.75
2:E:1432:LYS:N	2:E:1463:ARG:O	2.12	0.75
2:B:519:ILE:HG21	2:B:630:LYS:HB3	1.68	0.74
2:E:61:GLU:HA	2:E:64:ILE:HB	1.68	0.74
2:E:519:ILE:HG21	2:E:630:LYS:HB3	1.68	0.74
1:D:530:SER:HA	1:D:533:ILE:HD12	1.69	0.74
2:B:809:ALA:HB1	2:B:812:ILE:HB	1.70	0.74
2:E:676:LEU:HA	2:E:679:ILE:HD12	1.68	0.74
2:E:925:ILE:HA	2:E:928:ILE:HD12	1.69	0.74
2:E:1057:GLU:O	2:E:1080:ARG:NH1	2.21	0.74
2:B:297:VAL:HG22	2:B:326:VAL:HG22	1.69	0.74
2:B:319:ARG:O	2:B:500:VAL:N	2.20	0.74
1:D:670:ASN:ND2	1:D:676:ASP:O	2.19	0.74
2:E:1059:LEU:HD12	2:E:1116:PRO:HB2	1.70	0.74
2:B:288:ASP:HA	2:B:291:ARG:HE	1.52	0.74
2:B:1135:GLU:HA	2:B:1138:PHE:HB3	1.68	0.74
1:D:607:LYS:HG3	1:D:609:PRO:HD3	1.70	0.74
2:E:1586:VAL:HG23	2:E:1589:LEU:HD12	1.69	0.74
2:B:925:ILE:HA	2:B:928:ILE:HD12	1.69	0.74
2:B:1028:LEU:HA	2:B:1032:PHE:HD1	1.52	0.74
2:B:254:ILE:O	2:B:431:MET:N	2.20	0.74
2:B:1114:LEU:HB3	2:B:1163:ARG:HD2	1.70	0.74
2:B:1545:HIS:HB2	3:C:5:LYS:HE2	1.70	0.74
2:B:1567:GLU:HG3	2:B:1636:HIS:HE1	1.53	0.74
1:D:561:CYS:SG	1:D:594:SER:OG	2.46	0.74
2:E:1381:PHE:HA	2:E:1503:GLU:HA	1.69	0.74
2:E:1436:SER:HB3	2:E:1454:TYR:HB3	1.68	0.74
2:E:1521:THR:OG1	2:E:1566:TYR:OH	2.05	0.74
3:F:39:ASN:H	3:F:57:ASP:HB3	1.53	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:561:CYS:SG	1:A:594:SER:OG	2.46	0.73
2:B:1217:LYS:HD3	2:B:1220:ARG:HH12	1.52	0.73
3:C:93:VAL:HA	3:C:97:TRP:HB2	1.70	0.73
2:E:80:VAL:HG22	2:E:85:LEU:HD11	1.70	0.73
2:E:319:ARG:O	2:E:500:VAL:N	2.20	0.73
2:E:1217:LYS:HD3	2:E:1220:ARG:HH12	1.52	0.73
2:E:1028:LEU:HA	2:E:1032:PHE:HD1	1.52	0.73
2:B:1059:LEU:HD12	2:B:1116:PRO:HB2	1.70	0.73
2:B:1586:VAL:HG23	2:B:1589:LEU:HD12	1.69	0.73
2:E:12:TYR:HB2	2:E:67:LYS:HB2	1.69	0.73
1:A:530:SER:HA	1:A:533:ILE:HD12	1.69	0.73
2:E:256:GLU:OE1	2:E:447:TYR:OH	2.06	0.73
2:E:288:ASP:HA	2:E:291:ARG:HE	1.52	0.73
2:B:12:TYR:HB2	2:B:67:LYS:HB2	1.69	0.73
2:B:1381:PHE:HA	2:B:1503:GLU:HA	1.69	0.73
3:C:39:ASN:H	3:C:57:ASP:HB3	1.53	0.73
2:E:1114:LEU:HB3	2:E:1163:ARG:HD2	1.70	0.73
2:E:1488:THR:N	2:E:1508:SER:O	2.22	0.73
1:D:722:PHE:HE1	2:E:1:MET:HB3	1.52	0.73
2:B:25:VAL:HG23	2:B:57:GLY:HA2	1.69	0.73
2:B:163:LEU:HD21	2:B:194:ILE:HD11	1.69	0.73
2:E:1135:GLU:HA	2:E:1138:PHE:HB3	1.68	0.73
2:B:256:GLU:OE1	2:B:447:TYR:OH	2.06	0.73
2:B:105:LEU:HD22	2:B:110:LYS:HD3	1.71	0.72
2:E:1567:GLU:HG3	2:E:1636:HIS:HE1	1.53	0.72
2:E:225:TYR:HA	2:E:280:VAL:HG22	1.70	0.72
2:E:809:ALA:HB1	2:E:812:ILE:HB	1.70	0.72
3:F:9:VAL:HG21	3:F:101:VAL:HG21	1.71	0.72
1:A:607:LYS:HG3	1:A:609:PRO:HD3	1.70	0.72
2:B:1488:THR:N	2:B:1508:SER:O	2.22	0.72
2:B:1633:VAL:HA	2:B:1637:TYR:HB2	1.71	0.72
2:E:105:LEU:HD22	2:E:110:LYS:HD3	1.71	0.72
2:E:297:VAL:HG22	2:E:326:VAL:HG22	1.69	0.72
2:B:225:TYR:HA	2:B:280:VAL:HG22	1.70	0.72
2:E:1536:HIS:NE2	2:E:1609:GLU:OE2	2.21	0.72
2:B:1057:GLU:O	2:B:1080:ARG:NH1	2.21	0.72
2:E:1633:VAL:HA	2:E:1637:TYR:HB2	1.71	0.72
3:F:93:VAL:HA	3:F:97:TRP:HB2	1.70	0.72
2:B:80:VAL:HG22	2:B:85:LEU:HD11	1.70	0.72
2:B:737:LEU:HD12	2:B:740:TYR:HB2	1.72	0.72
2:E:737:LEU:HD12	2:E:740:TYR:HB2	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:896:LYS:HG3	2:E:897:PRO:HD3	1.71	0.72
2:B:1081:LYS:HE3	2:B:1119:GLU:HB2	1.72	0.72
2:B:771:ARG:NH1	2:B:781:SER:OG	2.23	0.71
3:C:9:VAL:HG21	3:C:101:VAL:HG21	1.72	0.71
2:E:771:ARG:NH1	2:E:781:SER:OG	2.23	0.71
2:B:928:ILE:HA	2:B:932:LEU:HD13	1.72	0.71
2:E:979:ARG:NH2	2:E:1035:GLN:OE1	2.24	0.71
2:E:1110:LEU:HD21	2:E:1151:LEU:HG	1.72	0.71
2:B:482:LYS:HE2	2:B:491:GLU:HG2	1.73	0.71
2:B:1080:ARG:NH2	2:B:1117:GLU:OE2	2.23	0.71
2:E:695:ASP:OD1	2:E:740:TYR:OH	2.08	0.71
2:E:1080:ARG:NH2	2:E:1117:GLU:OE2	2.23	0.71
2:E:1081:LYS:HE3	2:E:1119:GLU:HB2	1.72	0.71
2:B:979:ARG:NH2	2:B:1035:GLN:OE1	2.24	0.71
2:E:1019:ARG:O	2:E:1023:GLN:NE2	2.21	0.71
2:B:1099:ILE:HA	2:B:1102:ILE:HD12	1.72	0.71
2:E:879:LEU:HD23	2:E:927:LEU:HD22	1.73	0.71
2:E:1099:ILE:HA	2:E:1102:ILE:HD12	1.72	0.71
2:B:12:TYR:HA	2:B:34:THR:HG23	1.72	0.71
2:B:1102:ILE:HG12	2:B:1131:MET:HB2	1.73	0.71
2:B:103:ARG:HH12	2:B:104:LYS:HE3	1.55	0.71
2:B:896:LYS:HG3	2:B:897:PRO:HD3	1.71	0.71
2:E:928:ILE:HA	2:E:932:LEU:HD13	1.72	0.70
2:E:1102:ILE:HG12	2:E:1131:MET:HB2	1.73	0.70
2:E:1328:TYR:HB3	2:E:1338:LEU:HD22	1.72	0.70
2:E:1033:MET:SD	2:E:1093:ASN:ND2	2.65	0.70
1:A:701:LEU:HD11	2:B:16:ILE:HA	1.72	0.70
2:B:1059:LEU:O	2:B:1063:THR:OG1	2.09	0.70
2:E:1410:SER:OG	2:E:1413:PRO:O	2.08	0.70
2:B:575:ASP:HB3	2:B:578:LYS:HB2	1.73	0.70
2:B:1328:TYR:HB3	2:B:1338:LEU:HD22	1.72	0.70
2:B:1410:SER:OG	2:B:1413:PRO:O	2.08	0.70
2:E:103:ARG:HH12	2:E:104:LYS:HE3	1.55	0.70
2:E:472:VAL:HG22	2:E:527:ILE:HG12	1.73	0.70
3:F:66:ARG:HG2	3:F:67:LEU:HG	1.74	0.70
3:F:87:PRO:HA	3:F:137:ILE:HD11	1.73	0.70
2:B:964:MET:HG2	2:B:969:TYR:CE1	2.27	0.70
2:B:1110:LEU:HD21	2:B:1151:LEU:HG	1.72	0.70
2:B:1622:LEU:O	2:B:1626:PHE:HB3	1.91	0.70
2:E:12:TYR:HA	2:E:34:THR:HG23	1.72	0.70
2:E:1322:LYS:HD3	2:E:1345:ARG:NH1	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:879:LEU:HD23	2:B:927:LEU:HD22	1.73	0.70
2:E:1622:LEU:O	2:E:1626:PHE:HB3	1.91	0.70
2:E:1630:LYS:O	2:E:1634:GLU:HG2	1.92	0.70
2:E:98:TRP:O	2:E:101:ILE:HG22	1.91	0.70
2:E:254:ILE:O	2:E:431:MET:N	2.20	0.70
2:B:472:VAL:HG22	2:B:527:ILE:HG12	1.73	0.70
2:E:1218:GLU:OE1	2:E:1218:GLU:N	2.25	0.70
2:B:695:ASP:OD1	2:B:740:TYR:OH	2.08	0.70
2:B:1630:LYS:O	2:B:1634:GLU:HG2	1.92	0.70
2:E:451:ILE:HD11	2:E:623:ALA:HB2	1.74	0.70
2:E:575:ASP:HB3	2:E:578:LYS:HB2	1.73	0.70
2:E:1294:GLN:N	2:E:1294:GLN:OE1	2.25	0.70
2:B:451:ILE:HD12	2:B:621:GLN:HG2	1.74	0.69
2:E:482:LYS:HE2	2:E:491:GLU:HG2	1.73	0.69
2:B:775:LEU:HD23	2:B:781:SER:HB2	1.74	0.69
2:B:1231:TYR:O	2:B:1235:LYS:N	2.25	0.69
2:B:1322:LYS:HD3	2:B:1345:ARG:NH1	2.06	0.69
3:C:71:SER:O	3:C:75:THR:OG1	2.09	0.69
2:E:964:MET:HG2	2:E:969:TYR:CE1	2.27	0.69
2:E:1121:ARG:O	2:E:1125:ILE:HD12	1.91	0.69
2:E:1231:TYR:O	2:E:1235:LYS:N	2.25	0.69
2:E:1428:CYS:SG	2:E:1429:PHE:N	2.65	0.69
2:B:1006:TRP:HB3	2:B:1009:MET:HB2	1.73	0.69
2:B:1033:MET:SD	2:B:1093:ASN:ND2	2.65	0.69
2:E:1231:TYR:HD1	2:E:1236:ARG:HB3	1.58	0.69
2:B:1121:ARG:O	2:B:1125:ILE:HD12	1.91	0.69
2:E:451:ILE:HD12	2:E:621:GLN:HG2	1.74	0.69
2:B:98:TRP:O	2:B:101:ILE:HG22	1.92	0.69
2:B:1218:GLU:OE1	2:B:1218:GLU:N	2.25	0.69
3:F:39:ASN:HA	3:F:57:ASP:H	1.57	0.69
2:B:1294:GLN:OE1	2:B:1294:GLN:N	2.24	0.69
2:B:1521:THR:OG1	2:B:1566:TYR:OH	2.06	0.69
2:E:1006:TRP:HB3	2:E:1009:MET:HB2	1.73	0.69
3:C:119:LEU:HA	3:C:122:ASP:HB2	1.75	0.69
2:E:445:ASP:HB3	2:E:447:TYR:HE2	1.58	0.69
2:B:1231:TYR:HD1	2:B:1236:ARG:HB3	1.58	0.69
2:B:1428:CYS:SG	2:B:1429:PHE:N	2.65	0.69
3:C:39:ASN:HA	3:C:57:ASP:H	1.57	0.69
3:C:66:ARG:HG2	3:C:67:LEU:HG	1.73	0.69
1:D:584:LYS:HD2	2:E:1403:PRO:HA	1.74	0.69
2:E:954:VAL:O	2:E:958:ILE:HG12	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:722:PHE:HE1	2:B:1:MET:HB3	1.56	0.68
2:B:451:ILE:HD11	2:B:623:ALA:HB2	1.74	0.68
3:C:87:PRO:HA	3:C:137:ILE:HD11	1.73	0.68
2:E:41:TYR:HD2	2:E:44:TRP:HB2	1.59	0.68
2:E:474:ASP:HA	2:E:525:CYS:HA	1.75	0.68
2:E:1357:ARG:HH12	2:E:1456:ALA:HB3	1.58	0.68
2:B:928:ILE:HG23	2:B:932:LEU:HD22	1.76	0.68
2:B:1357:ARG:HH12	2:B:1456:ALA:HB3	1.58	0.68
2:E:954:VAL:HA	2:E:957:MET:SD	2.33	0.68
2:E:871:GLN:HE22	2:E:913:LEU:HA	1.58	0.68
2:E:1404:ASN:OD1	2:E:1424:GLN:HB2	1.93	0.68
2:E:36:HIS:N	2:E:48:TYR:O	2.27	0.68
2:E:879:LEU:HD22	2:E:924:HIS:CE1	2.29	0.68
3:F:71:SER:O	3:F:75:THR:OG1	2.09	0.68
2:B:1024:PHE:HA	2:B:1027:VAL:HG12	1.76	0.68
2:E:1307:TYR:O	2:E:1311:GLY:N	2.27	0.68
3:F:119:LEU:HA	3:F:122:ASP:HB2	1.75	0.68
2:E:166:ARG:O	2:E:171:ASN:HA	1.94	0.68
2:E:485:HIS:HB2	2:E:514:LYS:HB3	1.76	0.68
2:B:166:ARG:O	2:B:171:ASN:HA	1.94	0.68
2:B:445:ASP:HB3	2:B:447:TYR:HE2	1.58	0.68
2:E:449:THR:HB	2:E:623:ALA:HB3	1.76	0.68
2:E:1135:GLU:O	2:E:1139:SER:N	2.27	0.68
2:B:871:GLN:HE22	2:B:913:LEU:HA	1.58	0.67
2:B:1404:ASN:OD1	2:B:1424:GLN:HB2	1.93	0.67
2:B:41:TYR:HD2	2:B:44:TRP:HB2	1.59	0.67
2:E:95:LEU:HD21	2:E:124:LEU:HD13	1.75	0.67
2:E:775:LEU:HD23	2:E:781:SER:HB2	1.74	0.67
2:E:1597:MET:HG3	2:E:1600:LEU:HD12	1.76	0.67
2:B:954:VAL:HA	2:B:957:MET:SD	2.34	0.67
2:B:1120:LEU:O	2:B:1124:THR:OG1	2.11	0.67
2:B:1597:MET:HG3	2:B:1600:LEU:HD12	1.76	0.67
3:C:37:PHE:HB2	3:C:40:TYR:HE1	1.60	0.67
2:E:928:ILE:HG23	2:E:932:LEU:HD22	1.76	0.67
2:B:36:HIS:N	2:B:48:TYR:O	2.27	0.67
2:B:471:SER:O	2:B:528:ARG:N	2.27	0.67
2:B:474:ASP:HA	2:B:525:CYS:HA	1.75	0.67
2:B:1333:PHE:HZ	2:E:1444:LYS:HD3	1.60	0.67
2:E:5:ILE:HB	2:E:40:MET:HB2	1.75	0.67
2:E:1059:LEU:O	2:E:1063:THR:OG1	2.09	0.67
3:F:37:PHE:HB2	3:F:40:TYR:HE1	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:613:ILE:HD13	1:A:646:TYR:HB3	1.76	0.67
3:C:130:LYS:HE3	3:C:136:PRO:HD3	1.76	0.67
1:D:613:ILE:HD13	1:D:646:TYR:HB3	1.76	0.67
2:E:471:SER:O	2:E:528:ARG:N	2.27	0.67
2:E:485:HIS:N	2:E:514:LYS:O	2.22	0.67
2:E:1388:TYR:HD2	3:F:45:MET:HE2	1.60	0.67
2:B:4:TRP:CE2	2:B:46:ARG:HD3	2.30	0.67
2:B:240:GLU:OE2	2:B:319:ARG:NE	2.26	0.67
2:B:954:VAL:O	2:B:958:ILE:HG12	1.93	0.67
2:B:1307:TYR:O	2:B:1311:GLY:N	2.27	0.67
2:E:102:TRP:HB2	2:E:114:PHE:CE1	2.27	0.67
2:B:105:LEU:HD13	2:B:110:LYS:HZ2	1.60	0.67
2:E:1364:ALA:HA	2:E:1382:ILE:HA	1.77	0.67
2:B:5:ILE:HB	2:B:40:MET:HB2	1.76	0.67
2:B:879:LEU:HD22	2:B:924:HIS:CE1	2.29	0.67
2:B:1135:GLU:O	2:B:1139:SER:N	2.27	0.67
2:B:1536:HIS:NE2	2:B:1609:GLU:OE2	2.21	0.67
3:C:61:GLN:O	3:C:68:ARG:NH2	2.28	0.67
2:E:890:LEU:HD12	2:E:935:ARG:HG3	1.77	0.67
2:E:972:TYR:OH	2:E:977:LYS:NZ	2.27	0.67
1:A:567:ALA:HA	1:A:571:GLN:HB2	1.78	0.66
2:B:95:LEU:HD21	2:B:124:LEU:HD13	1.75	0.66
2:B:485:HIS:HB2	2:B:514:LYS:HB3	1.76	0.66
2:B:1491:THR:HG22	2:B:1493:TYR:H	1.59	0.66
2:B:1536:HIS:HD2	2:B:1606:ILE:HB	1.60	0.66
2:E:1120:LEU:O	2:E:1124:THR:OG1	2.11	0.66
2:B:96:ARG:NH1	2:B:97:GLU:OE2	2.28	0.66
2:E:79:THR:HA	2:E:85:LEU:HD22	1.78	0.66
2:E:95:LEU:HA	2:E:98:TRP:HD1	1.60	0.66
2:E:172:ILE:HA	2:E:175:PRO:HG2	1.77	0.66
3:F:61:GLN:O	3:F:68:ARG:NH2	2.28	0.66
2:B:172:ILE:HA	2:B:175:PRO:HG2	1.77	0.66
2:B:860:MET:HA	2:B:863:ILE:HD12	1.76	0.66
2:B:890:LEU:HD12	2:B:935:ARG:HG3	1.77	0.66
3:C:100:GLU:O	3:C:104:HIS:ND1	2.27	0.66
2:E:938:ARG:HA	2:E:941:ILE:HD12	1.78	0.66
2:E:946:GLN:HA	2:E:950:ILE:HG21	1.77	0.66
2:B:449:THR:HB	2:B:623:ALA:HB3	1.76	0.66
2:B:1364:ALA:HA	2:B:1382:ILE:HA	1.77	0.66
2:B:95:LEU:HA	2:B:98:TRP:HD1	1.60	0.66
2:E:860:MET:HA	2:E:863:ILE:HD12	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1491:THR:HG22	2:E:1493:TYR:H	1.59	0.66
3:F:100:GLU:O	3:F:104:HIS:ND1	2.27	0.66
3:F:130:LYS:HE3	3:F:136:PRO:HD3	1.76	0.66
2:B:450:LEU:O	2:B:510:TYR:N	2.28	0.66
2:B:938:ARG:HA	2:B:941:ILE:HD12	1.78	0.66
2:E:1536:HIS:HD2	2:E:1606:ILE:HB	1.60	0.66
1:D:578:ARG:HB3	1:D:587:HIS:HB2	1.77	0.66
2:E:96:ARG:NH1	2:E:97:GLU:OE2	2.28	0.66
1:A:615:ALA:HB3	1:A:645:LEU:HD12	1.78	0.66
2:B:1631:GLU:OE1	2:B:1635:LYS:NZ	2.28	0.66
2:E:1024:PHE:HA	2:E:1027:VAL:HG12	1.76	0.66
2:B:35:VAL:HG12	2:B:49:THR:HA	1.77	0.66
2:B:561:THR:HG21	2:B:631:LEU:HB3	1.77	0.66
2:B:1314:TRP:HB2	2:B:1352:ILE:HD11	1.78	0.66
2:B:1596:GLN:O	2:B:1600:LEU:N	2.26	0.66
2:E:561:THR:HG21	2:E:631:LEU:HB3	1.77	0.66
2:B:946:GLN:HA	2:B:950:ILE:HG21	1.77	0.65
2:B:1369:GLY:N	2:B:1418:ILE:O	2.30	0.65
3:C:4:ILE:HG13	3:C:76:ASP:HB2	1.76	0.65
2:E:35:VAL:HG12	2:E:49:THR:HA	1.77	0.65
2:E:757:LEU:HD23	2:E:760:LEU:HD11	1.79	0.65
2:E:1369:GLY:N	2:E:1418:ILE:O	2.30	0.65
2:E:1631:GLU:OE1	2:E:1635:LYS:NZ	2.28	0.65
1:A:578:ARG:HB3	1:A:587:HIS:HB2	1.77	0.65
1:D:567:ALA:HA	1:D:571:GLN:HB2	1.77	0.65
2:E:136:LEU:HD12	2:E:140:GLU:HG2	1.78	0.65
3:F:4:ILE:HG13	3:F:76:ASP:HB2	1.77	0.65
2:B:79:THR:HG22	2:B:85:LEU:HB2	1.77	0.65
2:B:204:ILE:HG13	2:B:211:ARG:HB3	1.79	0.65
2:E:1367:TYR:O	2:E:1378:ASN:N	2.27	0.65
2:B:94:THR:HG21	2:B:152:ILE:HG12	1.79	0.65
2:B:1586:VAL:HA	2:B:1589:LEU:HG	1.79	0.65
2:E:4:TRP:CE2	2:E:46:ARG:HD3	2.30	0.65
2:E:450:LEU:O	2:E:510:TYR:N	2.28	0.65
2:B:136:LEU:HD12	2:B:140:GLU:HG2	1.78	0.65
2:B:1124:THR:HG23	2:B:1127:ILE:HD12	1.79	0.65
2:B:1372:PHE:O	2:B:1377:ARG:NH2	2.28	0.65
3:C:23:TYR:HB2	3:C:165:LEU:HD21	1.79	0.65
1:D:615:ALA:HB3	1:D:645:LEU:HD12	1.78	0.65
2:E:79:THR:HG22	2:E:85:LEU:HB2	1.77	0.65
2:B:79:THR:HA	2:B:85:LEU:HD22	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1248:ARG:NH1	2:B:1249:ASP:OD1	2.30	0.65
2:E:157:ARG:NH1	2:E:157:ARG:O	2.29	0.65
2:E:243:MET:HG3	2:E:281:PHE:HZ	1.62	0.65
2:E:1314:TRP:HB2	2:E:1352:ILE:HD11	1.78	0.65
2:E:1579:HIS:HB3	2:E:1582:ASP:OD1	1.96	0.65
2:E:204:ILE:HG13	2:E:211:ARG:HB3	1.79	0.65
2:B:1463:ARG:HA	2:B:1487:THR:O	1.96	0.65
2:E:821:PRO:HG3	2:E:863:ILE:HG13	1.79	0.65
2:E:1057:GLU:HA	2:E:1061:LEU:HD13	1.79	0.65
1:A:624:HIS:HD2	1:A:633:GLN:HG3	1.62	0.65
2:B:481:GLU:OE1	2:B:494:SER:OG	2.13	0.65
2:B:1315:GLU:OE1	2:B:1315:GLU:N	2.28	0.65
2:E:1124:THR:HG23	2:E:1127:ILE:HD12	1.79	0.65
2:E:1353:ILE:HA	2:E:1449:GLN:HG2	1.79	0.65
2:E:1463:ARG:HA	2:E:1487:THR:O	1.96	0.65
1:D:576:TYR:HB2	1:D:598:GLU:HG2	1.79	0.65
2:E:1533:VAL:HA	2:E:1606:ILE:HD13	1.79	0.65
2:B:1167:GLN:OE1	2:B:1167:GLN:N	2.31	0.64
2:B:302:ARG:HD3	2:B:322:PHE:HD1	1.61	0.64
2:B:1579:HIS:HB3	2:B:1582:ASP:OD1	1.96	0.64
2:E:302:ARG:HD3	2:E:322:PHE:HD1	1.61	0.64
3:F:12:GLY:H	3:F:60:GLY:HA3	1.62	0.64
3:F:80:ILE:HG23	3:F:112:LEU:HA	1.79	0.64
2:B:102:TRP:HB2	2:B:114:PHE:CE1	2.27	0.64
3:F:23:TYR:HB2	3:F:165:LEU:HD21	1.79	0.64
1:D:667:ASP:OD1	1:D:678:MET:N	2.31	0.64
2:E:1197:VAL:O	2:E:1201:LEU:HG	1.98	0.64
2:E:256:GLU:HB3	2:E:431:MET:HE3	1.80	0.64
2:B:187:HIS:CE1	2:B:1006:TRP:HA	2.33	0.64
2:B:430:LYS:NZ	2:B:433:PHE:O	2.28	0.64
3:C:80:ILE:HG23	3:C:112:LEU:HA	1.79	0.64
2:E:268:PRO:HG2	2:E:274:LEU:HB2	1.80	0.64
2:B:757:LEU:HD23	2:B:760:LEU:HD11	1.79	0.64
1:D:624:HIS:HD2	1:D:633:GLN:HG3	1.62	0.64
2:E:166:ARG:O	2:E:171:ASN:ND2	2.28	0.64
2:E:187:HIS:CE1	2:E:1006:TRP:HA	2.33	0.64
2:E:1586:VAL:HA	2:E:1589:LEU:HG	1.79	0.64
2:B:268:PRO:HG2	2:B:274:LEU:HB2	1.80	0.64
2:B:1336:GLU:OE1	2:B:1336:GLU:N	2.19	0.64
2:E:821:PRO:HB2	2:E:862:LYS:HB3	1.80	0.64
2:B:757:LEU:HD13	2:B:815:ALA:HB3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1390:ARG:NH2	3:C:26:ASN:OD1	2.30	0.64
2:E:1596:GLN:O	2:E:1600:LEU:N	2.26	0.64
3:C:12:GLY:H	3:C:60:GLY:HA3	1.62	0.64
1:D:584:LYS:HG3	1:D:585:VAL:HG13	1.80	0.64
2:E:225:TYR:N	2:E:404:LYS:O	2.28	0.64
2:E:481:GLU:OE1	2:E:494:SER:OG	2.13	0.64
2:B:821:PRO:HB2	2:B:862:LYS:HB3	1.80	0.63
2:B:1353:ILE:HA	2:B:1449:GLN:HG2	1.79	0.63
3:C:116:LYS:HD2	3:C:119:LEU:HD12	1.80	0.63
2:E:187:HIS:NE2	2:E:1006:TRP:HA	2.12	0.63
2:E:1248:ARG:NH1	2:E:1249:ASP:OD1	2.30	0.63
2:E:1495:PHE:HE1	2:E:1502:PHE:HD2	1.45	0.63
3:F:146:ALA:O	3:F:150:GLY:N	2.30	0.63
1:A:667:ASP:OD1	1:A:678:MET:N	2.31	0.63
2:B:821:PRO:HG3	2:B:863:ILE:HG13	1.79	0.63
2:B:1197:VAL:O	2:B:1201:LEU:HG	1.98	0.63
2:E:1280:PRO:HA	2:E:1283:LEU:HB2	1.80	0.63
1:A:576:TYR:HB2	1:A:598:GLU:HG2	1.79	0.63
2:B:243:MET:HG3	2:B:281:PHE:HZ	1.62	0.63
2:B:244:ALA:HB2	2:B:257:ASN:HA	1.80	0.63
2:B:857:LEU:HD22	2:B:905:LEU:HD11	1.80	0.63
2:E:1315:GLU:OE1	2:E:1315:GLU:N	2.29	0.63
1:A:584:LYS:HG3	1:A:585:VAL:HG13	1.80	0.63
2:B:1135:GLU:OE1	2:B:1144:PHE:HA	1.99	0.63
2:B:1361:GLU:OE1	2:B:1361:GLU:N	2.30	0.63
2:B:1533:VAL:HA	2:B:1606:ILE:HD13	1.79	0.63
2:E:569:LEU:N	2:E:620:PHE:O	2.32	0.63
2:E:676:LEU:HB3	2:E:693:VAL:HG13	1.80	0.63
2:B:1057:GLU:HA	2:B:1061:LEU:HD13	1.79	0.63
2:B:1221:MET:HA	2:B:1224:THR:HG22	1.81	0.63
2:E:105:LEU:HD13	2:E:110:LYS:HZ2	1.63	0.63
2:B:182:ALA:HA	2:B:185:LYS:NZ	2.14	0.63
2:B:256:GLU:HB3	2:B:431:MET:HE3	1.79	0.63
2:B:839:LEU:HA	2:B:842:LYS:HD2	1.81	0.63
2:B:1019:ARG:O	2:B:1023:GLN:NE2	2.21	0.63
2:B:1241:ILE:HA	2:B:1244:LEU:HD12	1.81	0.63
2:E:69:ALA:HB2	2:E:78:GLU:HG2	1.81	0.63
2:E:1135:GLU:OE1	2:E:1144:PHE:HA	1.99	0.63
1:A:722:PHE:CE1	2:B:1:MET:HB3	2.33	0.63
2:B:225:TYR:N	2:B:404:LYS:O	2.28	0.63
2:B:973:ILE:HA	2:B:976:PHE:CE2	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1368:TYR:O	2:B:1425:TYR:N	2.31	0.63
2:B:1571:PHE:HA	2:B:1586:VAL:HG21	1.81	0.63
2:E:94:THR:HG21	2:E:152:ILE:HG12	1.79	0.63
2:E:746:ASP:O	2:E:750:THR:OG1	2.10	0.63
2:E:1167:GLN:OE1	2:E:1167:GLN:N	2.31	0.63
2:E:1221:MET:HA	2:E:1224:THR:HG22	1.81	0.63
2:B:285:SER:N	2:B:288:ASP:OD2	2.32	0.63
3:C:21:ILE:HD13	3:C:34:PRO:HA	1.80	0.63
1:D:548:ILE:HG21	1:D:682:THR:HG23	1.81	0.63
2:E:182:ALA:HA	2:E:185:LYS:NZ	2.14	0.63
2:E:760:LEU:HB3	2:E:823:ILE:HG21	1.80	0.63
2:B:187:HIS:NE2	2:B:1006:TRP:HA	2.13	0.63
2:B:569:LEU:N	2:B:620:PHE:O	2.32	0.63
2:B:761:LYS:HB2	2:B:822:SER:HB2	1.80	0.63
2:B:1126:PRO:HB3	2:B:1179:HIS:CE1	2.34	0.63
1:D:551:GLN:HG3	2:E:106:TYR:CE2	2.34	0.63
2:E:244:ALA:HB2	2:E:257:ASN:HA	1.80	0.63
2:E:798:PHE:O	2:E:802:MET:HG3	1.99	0.63
2:E:973:ILE:HA	2:E:976:PHE:CE2	2.34	0.63
2:B:719:TYR:CD1	2:B:723:HIS:HB2	2.34	0.62
2:B:798:PHE:O	2:B:802:MET:HG3	1.99	0.62
2:B:1280:PRO:HA	2:B:1283:LEU:HB2	1.80	0.62
2:E:719:TYR:CD1	2:E:723:HIS:HB2	2.34	0.62
2:E:1336:GLU:OE1	2:E:1336:GLU:N	2.18	0.62
2:E:757:LEU:HD13	2:E:815:ALA:HB3	1.80	0.62
2:E:1126:PRO:HB3	2:E:1179:HIS:CE1	2.34	0.62
2:E:1372:PHE:O	2:E:1377:ARG:NH2	2.28	0.62
2:E:1571:PHE:HA	2:E:1586:VAL:HG21	1.81	0.62
3:F:171:GLU:HG3	3:F:174:ARG:HH11	1.64	0.62
2:B:69:ALA:HB2	2:B:78:GLU:HG2	1.81	0.62
2:B:70:THR:HG22	2:B:71:VAL:H	1.64	0.62
2:E:1361:GLU:OE1	2:E:1361:GLU:N	2.30	0.62
3:F:21:ILE:HD13	3:F:34:PRO:HA	1.81	0.62
1:A:716:GLU:HG3	2:B:44:TRP:CZ2	2.34	0.62
2:B:1495:PHE:HE1	2:B:1502:PHE:HD2	1.45	0.62
2:E:761:LYS:HB2	2:E:822:SER:HB2	1.81	0.62
2:B:243:MET:O	2:B:258:TYR:N	2.23	0.62
2:B:1247:LEU:HA	2:B:1250:LEU:HD12	1.81	0.62
2:B:1367:TYR:O	2:B:1378:ASN:N	2.27	0.62
2:E:243:MET:O	2:E:258:TYR:N	2.24	0.62
2:E:839:LEU:HA	2:E:842:LYS:HD2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:95:LEU:HA	2:B:98:TRP:CD1	2.34	0.62
2:B:166:ARG:HD3	2:B:173:LEU:HB2	1.82	0.62
2:B:1330:SER:O	2:E:1444:LYS:NZ	2.26	0.62
1:D:536:LEU:HD21	2:E:17:TYR:HB2	1.80	0.62
2:E:15:ALA:HA	2:E:59:PHE:CE2	2.35	0.62
2:E:95:LEU:HA	2:E:98:TRP:CD1	2.34	0.62
2:E:138:LYS:HA	2:E:141:LEU:HB2	1.81	0.62
2:E:493:ILE:HD11	2:E:496:TYR:HD1	1.65	0.62
2:E:285:SER:N	2:E:288:ASP:OD2	2.32	0.62
2:E:866:SER:O	2:E:868:LEU:N	2.32	0.62
2:E:1247:LEU:HA	2:E:1250:LEU:HD12	1.81	0.62
3:F:116:LYS:HD2	3:F:119:LEU:HD12	1.80	0.62
2:B:157:ARG:NH1	2:B:157:ARG:O	2.29	0.62
2:B:496:TYR:CZ	2:B:513:VAL:HG11	2.35	0.62
2:B:972:TYR:OH	2:B:977:LYS:NZ	2.27	0.62
2:E:1122:LYS:HD3	2:E:1175:LEU:HD21	1.82	0.62
2:B:5:ILE:H	2:B:40:MET:N	1.95	0.62
2:B:509:TRP:HB3	2:B:511:GLU:HG3	1.82	0.62
2:B:1016:VAL:HG23	2:B:1017:PHE:HD1	1.65	0.62
2:B:1372:PHE:CE2	2:B:1424:GLN:HB3	2.34	0.62
2:E:1372:PHE:CE2	2:E:1424:GLN:HB3	2.34	0.62
2:E:1463:ARG:NE	2:E:1486:ARG:HE	1.98	0.62
2:B:443:ARG:HG3	2:B:628:SER:HA	1.82	0.62
2:E:857:LEU:HD22	2:E:905:LEU:HD11	1.80	0.62
2:E:879:LEU:HG	2:E:931:ARG:HH21	1.65	0.62
2:E:1016:VAL:HG23	2:E:1017:PHE:HD1	1.65	0.62
2:B:180:THR:O	2:B:184:PHE:N	2.33	0.61
2:B:760:LEU:HB3	2:B:823:ILE:HG21	1.80	0.61
2:E:240:GLU:OE2	2:E:319:ARG:NE	2.26	0.61
2:E:1241:ILE:HA	2:E:1244:LEU:HD12	1.81	0.61
2:E:1375:PHE:CE2	2:E:1376:LEU:HG	2.35	0.61
1:A:617:VAL:HG13	1:A:645:LEU:HD21	1.81	0.61
2:B:15:ALA:HA	2:B:59:PHE:CE2	2.35	0.61
2:B:1463:ARG:NE	2:B:1486:ARG:HE	1.98	0.61
2:E:1170:VAL:HG12	2:E:1174:LYS:HE2	1.82	0.61
2:E:1227:VAL:HA	2:E:1230:PHE:CD2	2.35	0.61
2:E:1238:ASP:OD1	2:E:1239:ILE:N	2.31	0.61
2:E:1532:CYS:O	2:E:1535:GLN:NE2	2.30	0.61
2:B:719:TYR:HA	2:B:723:HIS:HD2	1.66	0.61
2:B:1122:LYS:HD3	2:B:1175:LEU:HD21	1.82	0.61
3:C:171:GLU:HG3	3:C:174:ARG:HH11	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:496:TYR:CZ	2:E:513:VAL:HG11	2.35	0.61
2:E:936:ILE:HD12	2:E:939:THR:HB	1.82	0.61
2:E:1065:SER:O	2:E:1069:ARG:NH1	2.34	0.61
2:E:1080:ARG:HA	2:E:1083:ILE:HD12	1.82	0.61
2:B:138:LYS:HA	2:B:141:LEU:HB2	1.81	0.61
2:B:1231:TYR:HH	2:B:1243:TYR:HE1	1.47	0.61
1:D:701:LEU:HD23	2:E:31:ILE:HG23	1.82	0.61
2:B:166:ARG:O	2:B:171:ASN:ND2	2.28	0.61
2:B:1065:SER:O	2:B:1069:ARG:NH1	2.34	0.61
1:D:580:SER:HA	1:D:587:HIS:CE1	2.30	0.61
2:B:676:LEU:HB3	2:B:693:VAL:HG13	1.80	0.61
2:B:879:LEU:HG	2:B:931:ARG:HH21	1.65	0.61
2:E:100:VAL:HA	2:E:103:ARG:HG2	1.83	0.61
2:B:523:THR:HA	2:B:555:MET:SD	2.40	0.61
2:B:979:ARG:HD3	2:B:1039:GLU:OE2	2.01	0.61
1:A:726:CYS:HA	2:B:46:ARG:NH2	2.15	0.61
2:B:493:ILE:HD11	2:B:496:TYR:HD1	1.65	0.61
2:E:1125:ILE:HG12	2:E:1172:LEU:HA	1.83	0.61
1:A:548:ILE:HG21	1:A:682:THR:HG23	1.81	0.61
2:B:936:ILE:HD12	2:B:939:THR:HB	1.82	0.61
2:B:970:SER:O	2:B:974:SER:OG	2.15	0.61
3:C:42:ALA:HB3	3:C:53:LEU:HD11	1.82	0.61
2:E:166:ARG:HD3	2:E:173:LEU:HB2	1.81	0.61
2:E:443:ARG:HG3	2:E:628:SER:HA	1.82	0.61
2:E:523:THR:HA	2:E:555:MET:SD	2.41	0.61
2:B:1227:VAL:HA	2:B:1230:PHE:CD2	2.35	0.61
2:E:843:PHE:O	2:E:846:SER:OG	2.19	0.61
2:B:326:VAL:HB	2:B:386:VAL:HG12	1.83	0.60
2:B:1480:ALA:HA	2:B:1514:PRO:HB3	1.83	0.60
3:C:94:ARG:CZ	3:C:145:MET:HG2	2.31	0.60
1:D:697:ARG:NH1	2:E:30:GLN:HG3	2.16	0.60
2:E:70:THR:HG22	2:E:71:VAL:H	1.64	0.60
2:E:1243:TYR:HA	2:E:1246:LYS:HG2	1.83	0.60
3:F:7:VAL:HG21	3:F:71:SER:HB3	1.83	0.60
1:D:711:PRO:O	2:E:63:TYR:OH	2.06	0.60
2:E:701:ILE:HG21	2:E:763:LEU:HD21	1.83	0.60
2:E:857:LEU:HB3	2:E:905:LEU:HD21	1.83	0.60
2:E:961:LEU:O	2:E:969:TYR:OH	2.19	0.60
2:B:882:LEU:O	2:B:885:GLN:HG2	2.02	0.60
2:B:1170:VAL:HG12	2:B:1174:LYS:HE2	1.83	0.60
2:B:1375:PHE:CE2	2:B:1376:LEU:HG	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:326:VAL:HB	2:E:386:VAL:HG12	1.83	0.60
2:E:719:TYR:HA	2:E:723:HIS:HD2	1.65	0.60
3:F:94:ARG:CZ	3:F:145:MET:HG2	2.31	0.60
2:B:485:HIS:N	2:B:514:LYS:O	2.22	0.60
2:B:1243:TYR:HA	2:B:1246:LYS:HG2	1.83	0.60
2:B:1532:CYS:O	2:B:1535:GLN:NE2	2.30	0.60
2:E:1258:THR:HG22	2:E:1262:TYR:CE2	2.36	0.60
2:E:1459:VAL:HG23	2:E:1495:PHE:HB2	1.84	0.60
2:B:85:LEU:O	2:B:88:VAL:HG22	2.02	0.60
2:B:565:GLY:N	2:B:624:THR:O	2.34	0.60
2:B:866:SER:O	2:B:868:LEU:N	2.33	0.60
2:B:1006:TRP:HE3	2:B:1009:MET:HG3	1.67	0.60
2:B:1080:ARG:HA	2:B:1083:ILE:HD12	1.82	0.60
2:B:1206:ASP:O	2:B:1209:THR:HG22	2.02	0.60
2:B:1258:THR:HG22	2:B:1262:TYR:CE2	2.37	0.60
2:E:467:GLU:OE2	2:E:534:ARG:NH1	2.35	0.60
2:B:94:THR:HG22	2:B:98:TRP:NE1	2.16	0.60
2:B:857:LEU:HB3	2:B:905:LEU:HD21	1.83	0.60
2:B:961:LEU:O	2:B:969:TYR:OH	2.19	0.60
2:B:964:MET:O	2:B:1019:ARG:NH2	2.34	0.60
3:C:11:ASP:OD1	3:C:16:LYS:NZ	2.35	0.60
1:D:617:VAL:HG13	1:D:645:LEU:HD21	1.81	0.60
1:D:711:PRO:HG2	2:E:16:ILE:HG21	1.82	0.60
2:E:34:THR:HB	2:E:50:LEU:HD12	1.83	0.60
2:E:94:THR:HG22	2:E:98:TRP:NE1	2.16	0.60
1:A:580:SER:HB3	1:A:584:LYS:H	1.67	0.60
2:B:256:GLU:HG3	2:B:488:ALA:HB2	1.83	0.60
2:B:701:ILE:HG21	2:B:763:LEU:HD21	1.83	0.60
2:B:911:GLU:O	2:B:915:ARG:N	2.34	0.60
2:E:565:GLY:N	2:E:624:THR:O	2.34	0.60
2:E:937:ASN:HA	2:E:940:VAL:HG12	1.84	0.60
2:B:1357:ARG:HH21	2:B:1453:TYR:C	2.05	0.60
2:E:90:GLU:O	2:E:94:THR:OG1	2.13	0.60
2:E:509:TRP:HB3	2:E:511:GLU:HG3	1.82	0.60
2:E:964:MET:O	2:E:1019:ARG:NH2	2.34	0.60
2:E:1059:LEU:HA	2:E:1062:GLU:HG2	1.84	0.60
2:E:1067:ALA:O	2:E:1071:LYS:N	2.23	0.60
2:E:1206:ASP:O	2:E:1209:THR:HG22	2.02	0.60
2:E:1368:TYR:O	2:E:1425:TYR:N	2.31	0.60
3:F:42:ALA:HB3	3:F:53:LEU:HD11	1.83	0.60
2:B:470:MET:HG3	2:B:484:ILE:HD13	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1367:TYR:HE1	2:B:1398:LEU:HD23	1.67	0.60
2:B:1408:MET:N	2:B:1426:MET:O	2.33	0.60
1:D:562:PHE:N	1:D:575:TRP:O	2.35	0.60
1:D:580:SER:HB3	1:D:584:LYS:H	1.67	0.60
2:E:99:ALA:HA	2:E:102:TRP:NE1	2.17	0.60
2:E:911:GLU:O	2:E:915:ARG:N	2.34	0.60
1:A:580:SER:HA	1:A:587:HIS:CE1	2.30	0.59
3:C:146:ALA:O	3:C:150:GLY:N	2.30	0.59
1:D:643:SER:HB3	1:D:651:GLN:HB3	1.84	0.59
2:E:430:LYS:NZ	2:E:433:PHE:O	2.28	0.59
2:B:843:PHE:O	2:B:846:SER:OG	2.19	0.59
2:B:1313:MET:HA	2:B:1453:TYR:OH	2.02	0.59
2:B:1321:SER:O	2:B:1345:ARG:NH2	2.35	0.59
3:C:82:PHE:O	3:C:115:THR:N	2.24	0.59
1:D:601:HIS:CE1	1:D:603:SER:HA	2.38	0.59
2:E:36:HIS:O	2:E:48:TYR:N	2.35	0.59
2:E:85:LEU:O	2:E:88:VAL:HG22	2.02	0.59
2:E:166:ARG:NH1	2:E:168:ASP:H	2.00	0.59
2:E:166:ARG:HH21	2:E:169:ASN:HD21	1.49	0.59
2:E:1357:ARG:HH21	2:E:1453:TYR:C	2.05	0.59
3:F:11:ASP:OD1	3:F:16:LYS:NZ	2.35	0.59
1:A:562:PHE:N	1:A:575:TRP:O	2.35	0.59
1:A:580:SER:HB2	1:A:585:VAL:HG22	1.83	0.59
1:A:601:HIS:CE1	1:A:603:SER:HA	2.38	0.59
2:B:1067:ALA:O	2:B:1071:LYS:N	2.23	0.59
2:E:757:LEU:HA	2:E:760:LEU:HG	1.84	0.59
2:E:882:LEU:O	2:E:885:GLN:HG2	2.02	0.59
2:B:1183:HIS:CG	2:B:1184:LYS:H	2.21	0.59
2:E:1006:TRP:HE3	2:E:1009:MET:HG3	1.67	0.59
2:E:1321:SER:O	2:E:1345:ARG:NH2	2.35	0.59
2:E:1367:TYR:HE1	2:E:1398:LEU:HD23	1.67	0.59
2:E:1462:PHE:O	2:E:1489:TYR:N	2.33	0.59
2:E:1480:ALA:HA	2:E:1514:PRO:HB3	1.83	0.59
1:A:617:VAL:HG21	1:A:623:PRO:HD3	1.84	0.59
2:B:467:GLU:OE2	2:B:534:ARG:NH1	2.35	0.59
2:B:1125:ILE:HG12	2:B:1172:LEU:HA	1.83	0.59
2:B:1466:ARG:NH1	3:C:31:GLU:OE2	2.35	0.59
2:E:256:GLU:HG3	2:E:488:ALA:HB2	1.83	0.59
2:E:392:VAL:O	2:E:394:HIS:ND1	2.35	0.59
2:E:569:LEU:HD12	2:E:620:PHE:HD2	1.68	0.59
2:E:879:LEU:HG	2:E:931:ARG:NH2	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:34:THR:HB	2:B:50:LEU:HD12	1.83	0.59
2:B:99:ALA:HA	2:B:102:TRP:NE1	2.17	0.59
2:B:879:LEU:HG	2:B:931:ARG:NH2	2.18	0.59
2:B:937:ASN:HA	2:B:940:VAL:HG12	1.84	0.59
2:B:1381:PHE:HB2	2:B:1383:TYR:HE1	1.66	0.59
1:D:580:SER:HB2	1:D:585:VAL:HG22	1.83	0.59
1:D:617:VAL:HG21	1:D:623:PRO:HD3	1.84	0.59
2:E:37:ILE:HD13	2:E:45:TYR:HB3	1.85	0.59
2:E:197:LYS:HA	2:E:200:GLU:HG2	1.84	0.59
2:E:470:MET:HG3	2:E:484:ILE:HD13	1.84	0.59
2:E:789:ASN:O	2:E:792:ARG:N	2.36	0.59
2:E:1183:HIS:CG	2:E:1184:LYS:H	2.21	0.59
2:E:1381:PHE:HB2	2:E:1383:TYR:HE1	1.66	0.59
1:A:693:GLU:HA	1:A:696:LEU:HG	1.85	0.59
2:B:100:VAL:HA	2:B:103:ARG:HG2	1.83	0.59
2:B:789:ASN:O	2:B:792:ARG:N	2.36	0.59
2:E:802:MET:SD	2:E:846:SER:OG	2.58	0.59
2:E:970:SER:O	2:E:974:SER:OG	2.15	0.59
2:E:979:ARG:HD3	2:E:1039:GLU:OE2	2.01	0.59
2:E:1313:MET:HA	2:E:1453:TYR:OH	2.02	0.59
2:E:1390:ARG:NH1	3:F:26:ASN:OD1	2.36	0.59
1:A:711:PRO:CG	2:B:16:ILE:HG21	2.28	0.59
2:B:166:ARG:HH21	2:B:169:ASN:HD21	1.49	0.59
2:B:392:VAL:O	2:B:394:HIS:ND1	2.35	0.59
2:B:945:ARG:NH1	2:B:946:GLN:HB2	2.18	0.59
2:B:1238:ASP:OD1	2:B:1239:ILE:N	2.31	0.59
2:E:1438:PRO:HB2	2:E:1441:TYR:HB2	1.85	0.59
2:B:1256:ASN:HB3	2:B:1259:GLU:HB2	1.85	0.59
2:B:1468:PHE:CE2	2:B:1470:LYS:HB2	2.38	0.59
3:C:7:VAL:HG21	3:C:71:SER:HB3	1.83	0.59
2:E:1115:THR:HB	2:E:1120:LEU:HD11	1.85	0.59
2:E:1275:ASP:O	2:E:1292:THR:OG1	2.21	0.59
2:E:1362:TYR:O	2:E:1431:VAL:N	2.32	0.59
2:E:1468:PHE:CE2	2:E:1470:LYS:HB2	2.38	0.59
1:A:576:TYR:O	1:A:588:TYR:HA	2.03	0.59
2:B:187:HIS:CD2	2:B:1009:MET:HG2	2.38	0.59
2:B:1270:LEU:O	2:B:1272:GLN:NE2	2.36	0.59
2:B:1467:PRO:HG2	3:C:31:GLU:O	2.03	0.59
2:E:181:ILE:HA	2:E:184:PHE:HB3	1.85	0.59
2:E:1217:LYS:HA	2:E:1220:ARG:CZ	2.33	0.59
2:B:958:ILE:HD12	2:B:1016:VAL:HG21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1459:VAL:HG23	2:B:1495:PHE:HB2	1.84	0.58
3:C:80:ILE:HD11	3:C:97:TRP:HB3	1.84	0.58
2:E:921:THR:HG23	2:E:925:ILE:HG13	1.84	0.58
2:E:958:ILE:HD12	2:E:1016:VAL:HG21	1.85	0.58
2:E:1259:GLU:OE1	2:E:1259:GLU:N	2.35	0.58
2:B:36:HIS:O	2:B:48:TYR:N	2.35	0.58
2:B:757:LEU:HA	2:B:760:LEU:HG	1.84	0.58
2:B:1115:THR:HB	2:B:1120:LEU:HD11	1.85	0.58
2:B:1479:PHE:HB3	2:B:1482:MET:HE2	1.84	0.58
2:B:181:ILE:HA	2:B:184:PHE:HB3	1.85	0.58
2:B:554:LEU:O	2:B:562:LEU:N	2.36	0.58
2:B:921:THR:HG23	2:B:925:ILE:HG13	1.84	0.58
2:B:1102:ILE:HD13	2:B:1135:GLU:HG3	1.85	0.58
2:B:1397:ARG:O	2:B:1401:GLN:N	2.35	0.58
2:B:1515:LEU:HG	2:B:1575:TYR:CE2	2.39	0.58
2:E:1262:TYR:O	2:E:1266:LEU:HG	2.03	0.58
2:E:1515:LEU:HG	2:E:1575:TYR:CE2	2.39	0.58
2:B:569:LEU:HD12	2:B:620:PHE:HD2	1.68	0.58
2:B:1059:LEU:HA	2:B:1062:GLU:HG2	1.84	0.58
2:B:1197:VAL:O	2:B:1200:LEU:HB3	2.03	0.58
2:B:1462:PHE:O	2:B:1489:TYR:N	2.33	0.58
2:E:180:THR:O	2:E:184:PHE:N	2.33	0.58
2:E:1265:LEU:O	2:E:1269:GLU:N	2.30	0.58
2:B:166:ARG:NH1	2:B:168:ASP:H	2.00	0.58
2:B:1438:PRO:HB2	2:B:1441:TYR:HB2	1.85	0.58
2:B:1539:ASP:OD1	2:B:1540:ARG:N	2.36	0.58
3:C:43:ASN:ND2	3:C:52:ASN:OD1	2.36	0.58
2:E:1357:ARG:NH2	2:E:1456:ALA:H	1.99	0.58
2:B:792:ARG:O	2:B:795:PHE:HB2	2.03	0.58
2:B:817:LEU:HB3	2:B:859:CYS:HB2	1.86	0.58
2:E:1379:LYS:HZ2	2:E:1503:GLU:HB2	1.69	0.58
3:F:80:ILE:HD11	3:F:97:TRP:HB3	1.84	0.58
3:F:82:PHE:O	3:F:115:THR:N	2.24	0.58
2:B:1111:GLU:OE2	2:B:1163:ARG:NH2	2.32	0.58
2:B:1262:TYR:O	2:B:1266:LEU:HG	2.03	0.58
2:B:1526:ASN:O	2:B:1599:LEU:HD21	2.04	0.58
2:E:1470:LYS:HB3	2:E:1483:TRP:CD1	2.39	0.58
2:E:1485:GLU:OE1	2:E:1485:GLU:N	2.36	0.58
3:F:43:ASN:ND2	3:F:52:ASN:OD1	2.36	0.58
2:B:1259:GLU:HA	2:B:1262:TYR:HD2	1.68	0.58
2:B:1485:GLU:OE1	2:B:1485:GLU:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:522:VAL:HG23	2:E:554:LEU:HD13	1.85	0.58
2:E:1197:VAL:O	2:E:1200:LEU:HB3	2.03	0.58
2:B:1217:LYS:HA	2:B:1220:ARG:CZ	2.33	0.58
2:B:1470:LYS:HB3	2:B:1483:TRP:CD1	2.39	0.58
2:E:81:ILE:HG21	2:E:141:LEU:HD21	1.85	0.58
2:E:189:VAL:HG13	2:E:193:ARG:NH1	2.19	0.58
2:E:450:LEU:HB3	2:E:620:PHE:HZ	1.69	0.58
2:E:945:ARG:NH1	2:E:946:GLN:HB2	2.18	0.58
2:E:1256:ASN:HB3	2:E:1259:GLU:HB2	1.85	0.58
2:E:1518:ALA:HA	2:E:1566:TYR:OH	2.04	0.58
2:E:1557:PRO:HA	3:F:36:VAL:CG1	2.33	0.58
2:B:189:VAL:HG13	2:B:193:ARG:NH1	2.19	0.58
2:B:450:LEU:HB3	2:B:620:PHE:HZ	1.69	0.58
1:D:711:PRO:HB2	2:E:63:TYR:CE1	2.39	0.58
2:E:187:HIS:CD2	2:E:1009:MET:HG2	2.38	0.58
2:E:1397:ARG:O	2:E:1401:GLN:N	2.35	0.58
2:B:1259:GLU:HA	2:B:1262:TYR:CD2	2.39	0.57
1:D:693:GLU:HA	1:D:696:LEU:HG	1.85	0.57
2:E:5:ILE:H	2:E:40:MET:N	1.95	0.57
3:F:90:PHE:CD1	3:F:137:ILE:HG12	2.40	0.57
2:B:1367:TYR:CE2	2:B:1402:PHE:HE2	2.21	0.57
1:D:576:TYR:O	1:D:588:TYR:HA	2.03	0.57
2:E:554:LEU:O	2:E:562:LEU:N	2.36	0.57
2:E:677:PHE:O	2:E:681:MET:HG2	2.04	0.57
2:E:874:CYS:HA	2:E:877:VAL:HG12	1.87	0.57
2:E:1539:ASP:OD1	2:E:1540:ARG:N	2.36	0.57
2:B:81:ILE:HG21	2:B:141:LEU:HD21	1.85	0.57
2:B:556:ASN:ND2	2:B:561:THR:O	2.37	0.57
2:B:643:TRP:CE2	2:B:679:ILE:HG13	2.40	0.57
2:B:1518:ALA:HA	2:B:1566:TYR:OH	2.04	0.57
2:E:1479:PHE:HB3	2:E:1482:MET:HE2	1.86	0.57
1:A:594:SER:HB2	1:A:596:GLN:HE21	1.69	0.57
2:B:197:LYS:HA	2:B:200:GLU:HG2	1.84	0.57
2:B:303:VAL:HG22	2:B:319:ARG:HG2	1.86	0.57
2:B:1275:ASP:O	2:B:1292:THR:OG1	2.21	0.57
2:E:520:GLU:O	2:E:523:THR:OG1	2.15	0.57
2:E:643:TRP:CE2	2:E:679:ILE:HG13	2.40	0.57
2:E:1359:GLN:HB3	2:E:1456:ALA:HB2	1.87	0.57
1:A:643:SER:HB3	1:A:651:GLN:HB3	1.85	0.57
2:B:1256:ASN:HD21	2:B:1500:LYS:HE2	1.70	0.57
2:E:719:TYR:HA	2:E:723:HIS:CD2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:37:ILE:HD13	2:B:45:TYR:HB3	1.85	0.57
2:B:677:PHE:O	2:B:681:MET:HG2	2.05	0.57
2:B:765:ARG:NE	2:B:826:ASP:OD1	2.36	0.57
2:B:910:LEU:HB3	2:B:963:GLN:HE22	1.70	0.57
2:B:1099:ILE:HG13	2:B:1134:CYS:HB3	1.87	0.57
2:B:1515:LEU:HD13	2:B:1585:LYS:HB2	1.87	0.57
2:E:166:ARG:NH2	2:E:168:ASP:HB2	2.20	0.57
2:E:792:ARG:O	2:E:795:PHE:HB2	2.03	0.57
2:E:1099:ILE:HG13	2:E:1134:CYS:HB3	1.86	0.57
2:E:1165:ASP:HB2	2:E:1167:GLN:HE22	1.69	0.57
2:E:1242:ARG:HG2	2:E:1246:LYS:NZ	2.20	0.57
3:C:161:THR:O	3:C:163:ARG:NH1	2.37	0.57
1:D:693:GLU:O	1:D:697:ARG:HG2	2.05	0.57
2:E:556:ASN:ND2	2:E:561:THR:O	2.37	0.57
2:E:1205:LEU:HA	2:E:1208:ARG:HH21	1.70	0.57
2:E:1367:TYR:CE2	2:E:1402:PHE:HE2	2.21	0.57
3:F:8:VAL:O	3:F:58:THR:OG1	2.23	0.57
1:A:568:ARG:NH2	1:A:634:ASN:OD1	2.38	0.57
2:B:179:SER:OG	2:B:182:ALA:HB3	2.05	0.57
2:B:772:VAL:HA	2:B:775:LEU:HD12	1.86	0.57
2:B:838:VAL:HG12	2:B:877:VAL:HG21	1.87	0.57
2:B:1098:LYS:O	2:B:1102:ILE:HG13	2.05	0.57
2:B:1109:ILE:HA	2:B:1112:VAL:HG22	1.86	0.57
2:B:1242:ARG:HG2	2:B:1246:LYS:NZ	2.20	0.57
2:B:1284:GLN:NE2	2:B:1287:SER:O	2.37	0.57
3:C:7:VAL:HG23	3:C:75:THR:HG21	1.86	0.57
3:C:90:PHE:CD1	3:C:137:ILE:HG12	2.39	0.57
2:E:727:THR:HA	2:E:773:LEU:HD22	1.87	0.57
2:E:1102:ILE:HD13	2:E:1135:GLU:HG3	1.85	0.57
2:B:522:VAL:HG23	2:B:554:LEU:HD13	1.85	0.57
2:B:719:TYR:HA	2:B:723:HIS:CD2	2.40	0.57
2:B:828:LYS:HZ3	2:B:867:THR:HA	1.69	0.57
2:B:1259:GLU:OE1	2:B:1259:GLU:N	2.35	0.57
2:E:772:VAL:HA	2:E:775:LEU:HD12	1.87	0.57
2:E:1259:GLU:HA	2:E:1262:TYR:HD2	1.68	0.57
2:E:1259:GLU:HA	2:E:1262:TYR:CD2	2.39	0.57
2:E:1335:TYR:HA	2:E:1338:LEU:HD23	1.86	0.57
3:F:161:THR:O	3:F:163:ARG:NH1	2.37	0.57
2:B:1379:LYS:HZ2	2:B:1503:GLU:HB2	1.70	0.57
2:E:1526:ASN:O	2:E:1599:LEU:HD21	2.04	0.57
3:F:7:VAL:HG23	3:F:75:THR:HG21	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:8:VAL:HG22	3:F:79:LEU:HD12	1.87	0.57
1:A:541:GLN:O	1:A:544:ILE:HG22	2.04	0.56
2:B:874:CYS:HA	2:B:877:VAL:HG12	1.86	0.56
3:C:8:VAL:O	3:C:58:THR:OG1	2.23	0.56
1:D:568:ARG:NH2	1:D:634:ASN:OD1	2.38	0.56
2:E:1109:ILE:HA	2:E:1112:VAL:HG22	1.86	0.56
2:E:1284:GLN:NE2	2:E:1287:SER:O	2.37	0.56
2:B:727:THR:HA	2:B:773:LEU:HD22	1.87	0.56
2:B:1362:TYR:O	2:B:1431:VAL:N	2.32	0.56
2:B:1388:TYR:CE2	3:C:50:PRO:HG3	2.40	0.56
2:E:73:ASP:O	2:E:79:THR:N	2.38	0.56
2:E:760:LEU:HD12	2:E:819:TYR:HB2	1.87	0.56
2:E:817:LEU:HB3	2:E:859:CYS:HB2	1.86	0.56
2:E:1034:ASP:OD1	2:E:1097:HIS:NE2	2.38	0.56
2:E:1452:ASN:OD1	2:E:1453:TYR:N	2.38	0.56
2:B:73:ASP:O	2:B:79:THR:N	2.38	0.56
2:B:143:GLU:O	2:B:147:LYS:HG2	2.05	0.56
2:B:772:VAL:HG13	2:B:776:ARG:HH12	1.71	0.56
2:B:1207:TYR:O	2:B:1211:ILE:HG12	2.05	0.56
2:B:1235:LYS:O	2:B:1237:GLU:N	2.39	0.56
2:B:1359:GLN:HB3	2:B:1456:ALA:HB2	1.87	0.56
2:B:1452:ASN:OD1	2:B:1453:TYR:N	2.38	0.56
2:E:59:PHE:HD2	2:E:64:ILE:HG12	1.70	0.56
2:E:903:SER:HB3	2:E:953:PHE:CE2	2.40	0.56
2:E:914:ASP:CG	2:E:963:GLN:HG2	2.26	0.56
2:E:1207:TYR:O	2:E:1211:ILE:HG12	2.06	0.56
2:E:1240:TYR:O	2:E:1244:LEU:HG	2.05	0.56
2:E:1391:ARG:HG3	2:E:1429:PHE:HA	1.87	0.56
2:B:1034:ASP:OD1	2:B:1097:HIS:NE2	2.38	0.56
2:B:1088:ARG:HG3	2:B:1127:ILE:HD11	1.87	0.56
2:B:1325:ALA:HB2	2:B:1341:LEU:HD23	1.87	0.56
2:B:1448:GLU:OE1	2:B:1452:ASN:ND2	2.38	0.56
3:C:8:VAL:HG22	3:C:79:LEU:HD12	1.87	0.56
2:E:772:VAL:HG13	2:E:776:ARG:HH12	1.71	0.56
2:E:1408:MET:N	2:E:1426:MET:O	2.33	0.56
2:E:1525:THR:HA	2:E:1528:ARG:NH2	2.21	0.56
2:B:19:TYR:CG	2:B:59:PHE:HE1	2.24	0.56
2:B:208:LEU:HA	2:B:211:ARG:HD3	1.86	0.56
2:B:1167:GLN:O	2:B:1171:LEU:HG	2.05	0.56
1:D:541:GLN:O	1:D:544:ILE:HG22	2.04	0.56
1:D:586:LEU:HB2	1:D:608:LEU:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:594:SER:HB2	1:D:596:GLN:HE21	1.69	0.56
2:E:196:GLU:O	2:E:200:GLU:HB3	2.05	0.56
2:E:1072:ILE:O	2:E:1076:TYR:N	2.37	0.56
2:E:1098:LYS:O	2:E:1102:ILE:HG13	2.05	0.56
2:E:1325:ALA:HB2	2:E:1341:LEU:HD23	1.87	0.56
1:A:714:PRO:HG3	2:B:60:PRO:HB3	1.88	0.56
2:B:1165:ASP:HB2	2:B:1167:GLN:HE22	1.69	0.56
1:D:708:ASP:OD1	1:D:708:ASP:N	2.39	0.56
2:E:303:VAL:HG22	2:E:319:ARG:HG2	1.86	0.56
2:E:838:VAL:HG12	2:E:877:VAL:HG21	1.87	0.56
2:E:1178:GLU:HA	2:E:1181:ARG:HD3	1.88	0.56
2:E:1270:LEU:O	2:E:1272:GLN:NE2	2.36	0.56
1:A:580:SER:HB2	1:A:585:VAL:H	1.71	0.56
1:A:596:GLN:NE2	1:A:597:GLY:O	2.39	0.56
2:B:1178:GLU:HA	2:B:1181:ARG:HD3	1.88	0.56
2:B:1240:TYR:O	2:B:1244:LEU:HG	2.05	0.56
1:D:711:PRO:HB2	2:E:63:TYR:HE1	1.70	0.56
2:E:143:GLU:O	2:E:147:LYS:HG2	2.05	0.56
2:E:910:LEU:HB3	2:E:963:GLN:HE22	1.70	0.56
3:F:27:ALA:O	3:F:162:GLN:NE2	2.38	0.56
1:A:677:MET:CB	1:A:682:THR:HG21	2.36	0.56
2:B:899:HIS:CD2	2:B:943:MET:HG2	2.41	0.56
2:B:1205:LEU:HA	2:B:1208:ARG:HH21	1.70	0.56
2:B:1357:ARG:NH2	2:B:1456:ALA:H	1.99	0.56
3:C:27:ALA:O	3:C:162:GLN:NE2	2.38	0.56
1:D:677:MET:CB	1:D:682:THR:HG21	2.36	0.56
2:E:484:ILE:O	2:E:493:ILE:N	2.39	0.56
2:E:1167:GLN:O	2:E:1171:LEU:HG	2.05	0.56
2:E:1371:GLY:C	2:E:1424:GLN:HE21	2.09	0.56
2:E:1484:ILE:H	2:E:1512:ILE:HB	1.71	0.56
2:E:1515:LEU:HD13	2:E:1585:LYS:HB2	1.87	0.56
2:B:166:ARG:NH2	2:B:168:ASP:HB2	2.20	0.56
2:B:261:ARG:HD3	2:B:269:LYS:HD3	1.88	0.56
2:B:1371:GLY:C	2:B:1424:GLN:HE21	2.09	0.56
1:D:711:PRO:HG2	2:E:16:ILE:HD13	1.88	0.56
2:E:208:LEU:HA	2:E:211:ARG:HD3	1.86	0.56
2:E:473:HIS:HB2	2:E:526:HIS:CE1	2.41	0.56
2:E:979:ARG:NH2	2:E:1031:PHE:O	2.39	0.56
2:B:484:ILE:O	2:B:493:ILE:N	2.39	0.56
2:B:903:SER:HB3	2:B:953:PHE:CE2	2.40	0.56
2:B:914:ASP:CG	2:B:963:GLN:HG2	2.26	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1041:GLN:NE2	2:B:1044:ASN:OD1	2.39	0.56
2:B:1072:ILE:O	2:B:1076:TYR:N	2.37	0.56
2:E:1041:GLN:NE2	2:E:1044:ASN:OD1	2.39	0.56
2:E:1256:ASN:HD21	2:E:1500:LYS:HE2	1.70	0.56
1:A:562:PHE:CE1	1:A:577:CYS:HB3	2.41	0.55
1:A:693:GLU:O	1:A:697:ARG:HG2	2.05	0.55
2:B:933:LEU:H	2:B:935:ARG:HH21	1.53	0.55
2:B:979:ARG:NH2	2:B:1031:PHE:O	2.39	0.55
2:B:1441:TYR:CD2	2:B:1450:ILE:HG21	2.41	0.55
2:B:1484:ILE:H	2:B:1512:ILE:HB	1.71	0.55
2:B:1525:THR:HA	2:B:1528:ARG:NH2	2.21	0.55
3:C:137:ILE:HG23	3:C:141:GLN:HB2	1.88	0.55
2:E:761:LYS:O	2:E:765:ARG:HG2	2.06	0.55
2:E:1615:LEU:O	2:E:1619:HIS:N	2.29	0.55
2:B:273:LYS:HD3	2:B:277:LEU:HD23	1.88	0.55
2:B:760:LEU:HD12	2:B:819:TYR:HB2	1.87	0.55
2:B:828:LYS:NZ	2:B:867:THR:HA	2.21	0.55
2:B:855:GLN:OE1	2:B:855:GLN:N	2.39	0.55
2:B:1045:ASN:O	2:B:1049:LEU:HB3	2.06	0.55
2:B:1335:TYR:HA	2:B:1338:LEU:HD23	1.86	0.55
2:B:1391:ARG:HG3	2:B:1429:PHE:HA	1.87	0.55
1:D:596:GLN:NE2	1:D:597:GLY:O	2.39	0.55
2:E:828:LYS:NZ	2:E:867:THR:HA	2.21	0.55
2:E:1029:THR:HA	2:E:1033:MET:HB2	1.87	0.55
2:E:1235:LYS:O	2:E:1237:GLU:N	2.39	0.55
2:E:1441:TYR:CD2	2:E:1450:ILE:HG21	2.41	0.55
2:B:59:PHE:HD2	2:B:64:ILE:HG12	1.70	0.55
2:B:196:GLU:O	2:B:200:GLU:HB3	2.05	0.55
2:B:825:ASN:ND2	2:B:866:SER:HB2	2.22	0.55
2:B:896:LYS:CG	2:B:897:PRO:HD3	2.35	0.55
2:B:1198:SER:HA	2:B:1201:LEU:HD12	1.89	0.55
2:B:1340:ASN:OD1	2:B:1341:LEU:N	2.40	0.55
1:D:578:ARG:HB2	1:D:598:GLU:OE1	2.07	0.55
1:D:580:SER:HB2	1:D:585:VAL:H	1.71	0.55
2:E:435:GLU:HA	2:E:708:LYS:NZ	2.21	0.55
2:E:1467:PRO:HG2	3:F:31:GLU:O	2.07	0.55
2:B:761:LYS:O	2:B:765:ARG:HG2	2.06	0.55
2:B:1242:ARG:HG2	2:B:1246:LYS:HZ1	1.72	0.55
3:C:126:ILE:HD12	3:C:136:PRO:HB3	1.88	0.55
2:E:273:LYS:HD3	2:E:277:LEU:HD23	1.88	0.55
2:E:1340:ASN:OD1	2:E:1341:LEU:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1571:PHE:CE2	2:E:1590:LYS:HG3	2.42	0.55
3:F:137:ILE:HG23	3:F:141:GLN:HB2	1.88	0.55
2:B:156:ASN:O	2:B:160:GLY:N	2.40	0.55
2:E:19:TYR:CG	2:E:59:PHE:HE1	2.24	0.55
2:B:17:TYR:OH	2:B:20:ASN:OD1	2.23	0.55
2:B:473:HIS:HB2	2:B:526:HIS:CE1	2.41	0.55
1:D:557:VAL:HA	1:D:579:LEU:HB3	1.89	0.55
2:E:17:TYR:OH	2:E:20:ASN:OD1	2.23	0.55
2:E:156:ASN:O	2:E:160:GLY:N	2.40	0.55
2:E:1045:ASN:O	2:E:1049:LEU:HB3	2.06	0.55
2:E:1159:VAL:O	2:E:1208:ARG:NH1	2.40	0.55
2:E:1328:TYR:HB3	2:E:1338:LEU:CD2	2.37	0.55
2:E:1460:GLN:O	2:E:1491:THR:N	2.39	0.55
3:F:126:ILE:HD12	3:F:136:PRO:HB3	1.88	0.55
1:A:669:LEU:HA	1:A:672:LEU:HD12	1.89	0.55
2:B:746:ASP:O	2:B:750:THR:OG1	2.10	0.55
2:B:856:LYS:HD2	2:B:857:LEU:HD23	1.89	0.55
2:B:965:ASP:OD1	2:B:966:ASP:N	2.40	0.55
2:B:1601:THR:HG22	2:B:1605:ARG:NE	2.21	0.55
2:E:179:SER:OG	2:E:182:ALA:HB3	2.05	0.55
2:E:1028:LEU:HD23	2:E:1032:PHE:CD1	2.42	0.55
2:E:1328:TYR:HA	2:E:1332:VAL:HG12	1.89	0.55
2:E:1601:THR:HG22	2:E:1605:ARG:NE	2.21	0.55
1:A:557:VAL:HA	1:A:579:LEU:HB3	1.89	0.55
2:B:435:GLU:HA	2:B:708:LYS:NZ	2.21	0.55
2:B:1029:THR:HA	2:B:1033:MET:HB2	1.87	0.55
2:B:1109:ILE:HG23	2:B:1128:PHE:HE1	1.72	0.55
2:B:1345:ARG:HA	2:B:1348:PHE:CD2	2.42	0.55
2:E:48:TYR:HB3	2:E:53:LYS:HD2	1.88	0.55
2:E:1012:THR:HA	2:E:1015:ARG:NH1	2.21	0.55
2:E:1043:TRP:CD1	2:E:1094:LEU:HD21	2.42	0.55
2:E:1448:GLU:OE1	2:E:1452:ASN:ND2	2.38	0.55
2:B:76:GLN:NE2	2:B:78:GLU:OE1	2.36	0.55
2:B:958:ILE:HB	2:B:1016:VAL:HG21	1.89	0.55
2:B:1506:GLN:NE2	2:B:1507:ILE:O	2.40	0.55
1:D:562:PHE:CE1	1:D:577:CYS:HB3	2.41	0.55
2:E:45:TYR:O	2:E:59:PHE:N	2.31	0.55
2:E:714:PRO:HA	2:E:717:GLU:HG2	1.89	0.55
2:E:1483:TRP:CZ2	2:E:1514:PRO:HD3	2.42	0.55
2:B:19:TYR:O	2:B:28:SER:HA	2.07	0.55
2:B:1251:HIS:O	2:B:1255:GLU:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1458:GLU:N	2:B:1495:PHE:O	2.40	0.55
2:B:1615:LEU:HA	2:B:1618:LEU:HB2	1.89	0.55
2:E:1088:ARG:HG3	2:E:1127:ILE:HD11	1.88	0.55
2:E:1458:GLU:N	2:E:1495:PHE:O	2.40	0.55
3:F:83:SER:HB3	3:F:86:SER:HB3	1.89	0.55
2:B:562:LEU:O	2:B:633:GLN:NE2	2.40	0.54
2:B:1159:VAL:O	2:B:1208:ARG:NH1	2.40	0.54
2:E:283:ASP:HB2	2:E:430:LYS:HB3	1.89	0.54
2:E:1251:HIS:O	2:E:1255:GLU:N	2.39	0.54
2:E:1506:GLN:NE2	2:E:1507:ILE:O	2.40	0.54
2:B:48:TYR:HB3	2:B:53:LYS:HD2	1.88	0.54
2:B:958:ILE:HA	2:B:961:LEU:HD12	1.89	0.54
2:B:1328:TYR:HA	2:B:1332:VAL:HG12	1.89	0.54
2:B:1571:PHE:CE2	2:B:1590:LYS:HG3	2.42	0.54
3:C:83:SER:HB3	3:C:86:SER:HB3	1.89	0.54
3:C:85:VAL:HG11	3:C:119:LEU:HB2	1.89	0.54
2:E:832:ASP:OD2	2:E:835:GLU:N	2.24	0.54
2:E:1216:SER:O	2:E:1220:ARG:NH1	2.41	0.54
1:A:586:LEU:HB2	1:A:608:LEU:HB3	1.88	0.54
2:B:105:LEU:HD13	2:B:110:LYS:NZ	2.22	0.54
2:B:832:ASP:OD2	2:B:835:GLU:N	2.24	0.54
2:B:880:PRO:HA	2:B:931:ARG:HH12	1.73	0.54
1:D:669:LEU:HA	1:D:672:LEU:HD12	1.89	0.54
2:E:958:ILE:HA	2:E:961:LEU:HD12	1.89	0.54
3:F:68:ARG:HG3	3:F:72:TYR:CE1	2.43	0.54
2:B:1535:GLN:HE22	2:B:1542:LEU:HD21	1.71	0.54
2:E:76:GLN:NE2	2:E:78:GLU:OE1	2.36	0.54
2:E:261:ARG:HD3	2:E:269:LYS:HD3	1.88	0.54
2:E:795:PHE:CD1	2:E:839:LEU:HB3	2.43	0.54
2:E:825:ASN:ND2	2:E:866:SER:HB2	2.22	0.54
2:E:899:HIS:CD2	2:E:943:MET:HG2	2.41	0.54
2:E:958:ILE:HB	2:E:1016:VAL:HG21	1.89	0.54
2:E:1418:ILE:HA	2:E:1421:SER:HB3	1.89	0.54
2:E:1545:HIS:O	2:E:1548:SER:OG	2.21	0.54
2:E:1615:LEU:HA	2:E:1618:LEU:HB2	1.89	0.54
1:A:708:ASP:N	1:A:708:ASP:OD1	2.39	0.54
2:B:97:GLU:OE2	2:B:1065:SER:HB2	2.08	0.54
2:B:1216:SER:O	2:B:1220:ARG:NH1	2.41	0.54
2:E:562:LEU:O	2:E:633:GLN:NE2	2.40	0.54
2:E:1109:ILE:HG23	2:E:1128:PHE:HE1	1.72	0.54
2:E:1111:GLU:OE2	2:E:1163:ARG:NH2	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1165:ASP:O	2:B:1168:TYR:HB3	2.08	0.54
2:B:1409:THR:HA	3:C:28:PHE:HZ	1.72	0.54
2:B:1557:PRO:HB2	2:B:1561:GLY:CA	2.36	0.54
2:E:11:LYS:HZ1	2:E:36:HIS:HB2	1.72	0.54
2:E:933:LEU:H	2:E:935:ARG:HH21	1.54	0.54
2:B:11:LYS:HZ1	2:B:36:HIS:HB2	1.73	0.54
2:B:732:LYS:O	2:B:736:VAL:HG23	2.08	0.54
2:B:1012:THR:HA	2:B:1015:ARG:NH1	2.21	0.54
2:B:1328:TYR:HB3	2:B:1338:LEU:CD2	2.37	0.54
2:E:473:HIS:ND1	2:E:477:GLY:O	2.41	0.54
2:E:896:LYS:CG	2:E:897:PRO:HD3	2.36	0.54
2:E:965:ASP:OD1	2:E:966:ASP:N	2.40	0.54
2:E:1217:LYS:HD3	2:E:1220:ARG:NH1	2.22	0.54
2:E:1535:GLN:HE22	2:E:1542:LEU:HD21	1.71	0.54
2:E:1593:ILE:HA	2:E:1596:GLN:HB3	1.90	0.54
1:A:578:ARG:HB2	1:A:598:GLU:OE1	2.07	0.54
2:E:93:SER:O	2:E:96:ARG:HB3	2.08	0.54
2:E:105:LEU:HD13	2:E:110:LYS:NZ	2.22	0.54
2:E:940:VAL:HG13	2:E:992:MET:CE	2.37	0.54
2:E:1623:SER:HA	2:E:1627:ARG:NH1	2.23	0.54
2:B:283:ASP:HB2	2:B:430:LYS:HB3	1.89	0.54
2:B:899:HIS:HB3	2:B:949:HIS:NE2	2.23	0.54
2:B:940:VAL:HG13	2:B:992:MET:CE	2.37	0.54
2:B:1028:LEU:HD23	2:B:1032:PHE:CD1	2.42	0.54
2:B:1065:SER:OG	2:B:1068:LYS:HB2	2.08	0.54
3:C:68:ARG:HG3	3:C:72:TYR:CE1	2.43	0.54
2:E:97:GLU:OE2	2:E:1065:SER:HB2	2.08	0.54
2:E:662:GLY:HA2	2:E:665:ILE:HB	1.90	0.54
2:E:855:GLN:OE1	2:E:855:GLN:N	2.39	0.54
2:E:1212:MET:HA	2:E:1215:GLU:OE2	2.08	0.54
2:E:1242:ARG:HG2	2:E:1246:LYS:HZ1	1.73	0.54
3:F:85:VAL:HG11	3:F:119:LEU:HB2	1.89	0.54
2:B:818:LYS:HZ3	2:B:858:ASN:HB3	1.73	0.54
2:B:1460:GLN:O	2:B:1491:THR:N	2.39	0.54
2:B:1483:TRP:CZ2	2:B:1514:PRO:HD3	2.42	0.54
2:E:19:TYR:HB3	2:E:29:LEU:H	1.73	0.54
2:E:1065:SER:OG	2:E:1068:LYS:HB2	2.08	0.54
2:E:1198:SER:HA	2:E:1201:LEU:HD12	1.88	0.54
2:E:1345:ARG:HA	2:E:1348:PHE:CD2	2.42	0.54
2:B:561:THR:HB	2:B:631:LEU:HD22	1.90	0.53
2:B:938:ARG:O	2:B:941:ILE:HB	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1043:TRP:CD1	2:B:1094:LEU:HD21	2.42	0.53
2:B:1449:GLN:HA	2:B:1452:ASN:ND2	2.24	0.53
2:E:19:TYR:O	2:E:28:SER:HA	2.07	0.53
2:E:23:GLN:HG2	2:E:58:ILE:HD13	1.89	0.53
2:E:649:ASN:OD1	2:E:652:HIS:HB3	2.08	0.53
2:E:732:LYS:O	2:E:736:VAL:HG23	2.08	0.53
2:B:4:TRP:CZ3	2:B:46:ARG:HG2	2.43	0.53
2:B:23:GLN:HG2	2:B:58:ILE:HD13	1.89	0.53
2:B:649:ASN:OD1	2:B:652:HIS:HB3	2.08	0.53
2:B:662:GLY:HA2	2:B:665:ILE:HB	1.90	0.53
2:B:714:PRO:HA	2:B:717:GLU:HG2	1.89	0.53
2:B:934:ARG:HB3	2:B:935:ARG:NH1	2.24	0.53
2:B:1418:ILE:HA	2:B:1421:SER:HB3	1.90	0.53
3:C:6:CYS:SG	3:C:79:LEU:HG	2.48	0.53
1:D:618:THR:HB	1:D:662:TYR:OH	2.08	0.53
1:D:670:ASN:O	1:D:674:GLY:N	2.41	0.53
2:E:856:LYS:HD2	2:E:857:LEU:HD23	1.89	0.53
2:E:992:MET:O	2:E:996:LEU:HD23	2.08	0.53
2:E:1363:PHE:O	2:E:1383:TYR:N	2.31	0.53
2:E:1579:HIS:O	2:E:1583:GLN:NE2	2.37	0.53
2:B:1091:TRP:CH2	2:B:1131:MET:HB3	2.44	0.53
2:B:1623:SER:HA	2:B:1627:ARG:NH1	2.23	0.53
2:E:4:TRP:CZ3	2:E:46:ARG:HG2	2.42	0.53
2:E:122:TYR:HA	2:E:125:ILE:HG12	1.91	0.53
2:E:899:HIS:HB3	2:E:949:HIS:NE2	2.23	0.53
2:B:1395:SER:O	2:B:1399:LEU:HG	2.09	0.53
2:B:1463:ARG:HH21	2:B:1484:ILE:HG21	1.73	0.53
2:B:1518:ALA:HB2	2:B:1570:PHE:CE2	2.44	0.53
1:D:704:ILE:HD11	2:E:65:HIS:CG	2.43	0.53
2:E:46:ARG:HA	2:E:57:GLY:O	2.09	0.53
2:E:820:LEU:O	2:E:823:ILE:HG12	2.09	0.53
2:E:1006:TRP:CD1	2:E:1006:TRP:N	2.77	0.53
3:F:41:SER:OG	3:F:53:LEU:O	2.15	0.53
3:F:142:GLY:HA3	3:F:154:TYR:CZ	2.44	0.53
2:B:473:HIS:ND1	2:B:477:GLY:O	2.41	0.53
2:B:795:PHE:CD1	2:B:839:LEU:HB3	2.43	0.53
2:B:824:ILE:O	2:B:828:LYS:HG2	2.09	0.53
2:B:831:PHE:HD2	2:B:836:LEU:HB2	1.74	0.53
2:B:886:LEU:HD13	2:B:932:LEU:HD23	1.90	0.53
2:B:1228:LEU:HD13	2:B:1244:LEU:HD23	1.90	0.53
2:E:938:ARG:O	2:E:941:ILE:HB	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1228:LEU:HD13	2:E:1244:LEU:HD23	1.90	0.53
2:E:1399:LEU:HD13	2:E:1405:ALA:HB1	1.90	0.53
2:E:1632:LYS:O	2:E:1636:HIS:N	2.41	0.53
3:F:69:PRO:HA	3:F:72:TYR:HD1	1.74	0.53
2:B:929:MET:HA	2:B:933:LEU:CD1	2.29	0.53
2:B:1212:MET:HA	2:B:1215:GLU:OE2	2.08	0.53
2:E:7:THR:O	2:E:10:GLN:NE2	2.42	0.53
2:E:281:PHE:HD1	2:E:428:ALA:HB3	1.74	0.53
2:E:886:LEU:HD13	2:E:932:LEU:HD23	1.90	0.53
2:E:1626:PHE:HD2	2:E:1627:ARG:HD2	1.74	0.53
3:F:6:CYS:SG	3:F:79:LEU:HG	2.48	0.53
1:A:670:ASN:O	1:A:674:GLY:N	2.41	0.53
2:B:296:LEU:HD23	2:B:346:ILE:HD11	1.90	0.53
2:B:820:LEU:O	2:B:823:ILE:HG12	2.09	0.53
2:B:1272:GLN:C	2:B:1297:LYS:HD2	2.29	0.53
3:C:69:PRO:HA	3:C:72:TYR:HD1	1.74	0.53
2:E:730:TYR:CD1	2:E:771:ARG:HD3	2.44	0.53
2:E:929:MET:HA	2:E:933:LEU:CD1	2.29	0.53
2:E:1348:PHE:O	2:E:1352:ILE:HG12	2.09	0.53
3:F:72:TYR:CE2	3:F:101:VAL:HG22	2.44	0.53
1:A:618:THR:HB	1:A:662:TYR:OH	2.08	0.53
2:B:19:TYR:HB3	2:B:29:LEU:H	1.73	0.53
2:B:46:ARG:HA	2:B:57:GLY:O	2.09	0.53
2:B:90:GLU:O	2:B:94:THR:OG1	2.13	0.53
2:B:320:ARG:NH1	2:B:375:GLU:OE1	2.42	0.53
2:B:992:MET:O	2:B:996:LEU:HD23	2.08	0.53
2:B:1391:ARG:NH2	2:B:1392:GLU:OE2	2.42	0.53
2:B:1399:LEU:HD13	2:B:1405:ALA:HB1	1.89	0.53
2:E:102:TRP:HA	2:E:105:LEU:HG	1.90	0.53
2:E:880:PRO:HA	2:E:931:ARG:HH12	1.73	0.53
2:E:940:VAL:HG13	2:E:992:MET:HE1	1.91	0.53
2:E:945:ARG:HH12	2:E:946:GLN:HB2	1.73	0.53
2:B:73:ASP:O	2:B:78:GLU:N	2.42	0.53
2:B:122:TYR:HA	2:B:125:ILE:HG12	1.90	0.53
2:B:1321:SER:OG	2:B:1345:ARG:NH2	2.42	0.53
2:B:1495:PHE:CE1	2:B:1502:PHE:HD2	2.26	0.53
3:C:66:ARG:NH1	3:C:67:LEU:HB2	2.24	0.53
2:E:881:LEU:O	2:E:884:ASP:HB2	2.09	0.53
2:E:997:ILE:HG21	2:E:1053:PHE:HB2	1.90	0.53
1:A:536:LEU:HA	1:A:539:LYS:HE3	1.91	0.53
2:B:93:SER:O	2:B:96:ARG:HB3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:243:MET:HG3	2:B:281:PHE:CZ	2.44	0.53
2:B:294:VAL:HG11	2:B:333:ILE:HD12	1.91	0.53
2:B:990:PHE:HB3	2:B:1045:ASN:CG	2.30	0.53
2:B:1006:TRP:N	2:B:1006:TRP:CD1	2.77	0.53
2:B:1203:ASN:O	2:B:1207:TYR:HB3	2.09	0.53
2:B:1407:LYS:HA	2:B:1426:MET:H	1.74	0.53
2:B:1545:HIS:O	2:B:1548:SER:OG	2.21	0.53
3:C:68:ARG:HG2	3:C:69:PRO:HD3	1.91	0.53
2:E:189:VAL:HA	2:E:192:LYS:HE2	1.91	0.53
2:E:222:TYR:CZ	2:E:289:LEU:HD11	2.44	0.53
2:E:561:THR:HB	2:E:631:LEU:HD22	1.90	0.53
2:E:765:ARG:NE	2:E:826:ASP:OD1	2.35	0.53
2:E:1091:TRP:CH2	2:E:1131:MET:HB3	2.44	0.53
2:E:1386:LYS:H	2:E:1389:GLU:HG3	1.74	0.53
2:E:1398:LEU:HA	2:E:1401:GLN:HB3	1.91	0.53
2:E:1518:ALA:HB2	2:E:1570:PHE:CE2	2.44	0.53
2:B:730:TYR:CZ	2:B:731:VAL:HG23	2.43	0.52
2:B:789:ASN:HA	2:B:792:ARG:HD2	1.91	0.52
2:B:881:LEU:O	2:B:884:ASP:HB2	2.09	0.52
2:B:1600:LEU:O	2:B:1604:ILE:HG12	2.09	0.52
2:E:14:VAL:HB	2:E:65:HIS:HB3	1.91	0.52
2:E:828:LYS:HZ3	2:E:867:THR:HA	1.75	0.52
2:E:1391:ARG:NH2	2:E:1392:GLU:OE2	2.42	0.52
2:E:1407:LYS:HA	2:E:1426:MET:H	1.74	0.52
1:A:576:TYR:HE1	1:A:591:LEU:HG	1.75	0.52
2:B:30:GLN:NE2	2:B:32:GLY:H	2.08	0.52
2:B:102:TRP:HA	2:B:105:LEU:HG	1.90	0.52
2:B:281:PHE:HD1	2:B:428:ALA:HB3	1.74	0.52
2:B:570:VAL:HG22	2:B:592:LYS:HZ2	1.74	0.52
2:B:570:VAL:HA	2:B:592:LYS:HZ2	1.73	0.52
2:B:945:ARG:HH12	2:B:946:GLN:HB2	1.74	0.52
2:B:997:ILE:HG21	2:B:1053:PHE:HB2	1.90	0.52
2:B:1027:VAL:HG22	2:B:1032:PHE:CE1	2.44	0.52
2:B:1207:TYR:HD2	2:B:1208:ARG:HG3	1.74	0.52
2:B:1348:PHE:O	2:B:1352:ILE:HG12	2.09	0.52
2:B:1404:ASN:HB2	2:B:1406:GLU:OE2	2.09	0.52
2:B:1626:PHE:CD2	2:B:1627:ARG:HD2	2.45	0.52
1:D:536:LEU:HD21	2:E:17:TYR:HA	1.91	0.52
2:E:46:ARG:HD2	2:E:58:ILE:HG13	1.91	0.52
2:E:99:ALA:HA	2:E:102:TRP:HE1	1.75	0.52
2:E:296:LEU:HD23	2:E:346:ILE:HD11	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:320:ARG:NH1	2:E:375:GLU:OE1	2.42	0.52
2:E:533:HIS:CE1	2:E:535:SER:HB3	2.44	0.52
2:E:730:TYR:CZ	2:E:731:VAL:HG23	2.43	0.52
2:E:1165:ASP:O	2:E:1168:TYR:HB3	2.08	0.52
2:E:1233:GLU:O	2:E:1235:LYS:NZ	2.22	0.52
2:E:1370:GLN:N	2:E:1421:SER:O	2.40	0.52
2:E:1395:SER:O	2:E:1399:LEU:HG	2.09	0.52
2:B:1363:PHE:O	2:B:1383:TYR:N	2.30	0.52
2:B:1386:LYS:H	2:B:1389:GLU:HG3	1.74	0.52
2:B:1626:PHE:HD2	2:B:1627:ARG:HD2	1.74	0.52
2:E:528:ARG:HA	2:E:551:PHE:HA	1.92	0.52
2:E:831:PHE:HD2	2:E:836:LEU:HB2	1.74	0.52
2:E:1027:VAL:HG22	2:E:1032:PHE:CE1	2.44	0.52
2:E:1203:ASN:O	2:E:1207:TYR:HB3	2.09	0.52
2:E:1463:ARG:HH21	2:E:1484:ILE:HG21	1.73	0.52
2:E:1521:THR:O	2:E:1524:LEU:HG	2.09	0.52
2:E:1522:MET:HG3	2:E:1566:TYR:HE2	1.75	0.52
3:F:68:ARG:HG2	3:F:69:PRO:HD3	1.91	0.52
1:A:544:ILE:O	1:A:547:LEU:HG	2.09	0.52
2:B:44:TRP:CE3	2:B:58:ILE:HG22	2.45	0.52
2:B:871:GLN:HG2	2:B:875:ARG:HD3	1.91	0.52
2:B:1398:LEU:HA	2:B:1401:GLN:HB3	1.92	0.52
3:C:72:TYR:CE2	3:C:101:VAL:HG22	2.44	0.52
1:D:536:LEU:HA	1:D:539:LYS:HE3	1.91	0.52
2:E:871:GLN:HG2	2:E:875:ARG:HD3	1.91	0.52
2:E:1058:SER:O	2:E:1062:GLU:HG2	2.09	0.52
2:E:1593:ILE:HB	2:E:1597:MET:HE1	1.92	0.52
2:B:646:ASN:HD21	2:B:649:ASN:HD22	1.57	0.52
2:B:853:VAL:O	2:B:856:LYS:HG3	2.10	0.52
2:B:1265:LEU:O	2:B:1269:GLU:N	2.30	0.52
2:B:1593:ILE:HA	2:B:1596:GLN:HB3	1.90	0.52
2:B:1615:LEU:O	2:B:1619:HIS:N	2.29	0.52
3:C:12:GLY:N	3:C:60:GLY:HA3	2.25	0.52
2:E:200:GLU:HA	2:E:203:SER:HB3	1.91	0.52
2:E:262:TRP:CZ3	2:E:268:PRO:HG3	2.44	0.52
2:E:789:ASN:HA	2:E:792:ARG:HD2	1.91	0.52
2:E:1249:ASP:HA	2:E:1252:ARG:NE	2.25	0.52
2:E:1404:ASN:HB2	2:E:1406:GLU:OE2	2.09	0.52
2:E:1626:PHE:CD2	2:E:1627:ARG:HD2	2.45	0.52
2:B:94:THR:HG22	2:B:98:TRP:HE1	1.74	0.52
2:B:730:TYR:CD1	2:B:771:ARG:HD3	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:589:GLY:O	1:D:591:LEU:N	2.42	0.52
2:E:570:VAL:HG22	2:E:592:LYS:HZ2	1.74	0.52
2:E:570:VAL:HA	2:E:592:LYS:HZ2	1.73	0.52
2:E:889:GLN:HA	2:E:895:ASN:HD21	1.75	0.52
2:E:934:ARG:HB3	2:E:935:ARG:NH1	2.24	0.52
2:E:990:PHE:HB3	2:E:1045:ASN:CG	2.30	0.52
3:F:2:GLN:NE2	3:F:50:PRO:O	2.42	0.52
2:B:105:LEU:HD11	2:B:117:LEU:HD13	1.91	0.52
2:B:860:MET:SD	2:B:905:LEU:HD22	2.50	0.52
2:B:929:MET:CA	2:B:933:LEU:HD13	2.30	0.52
2:B:1129:PHE:CG	2:B:1179:HIS:HB3	2.45	0.52
2:B:1249:ASP:HA	2:B:1252:ARG:NE	2.25	0.52
2:B:1373:PRO:HG2	2:B:1376:LEU:HD12	1.91	0.52
1:D:536:LEU:HD21	2:E:17:TYR:CB	2.38	0.52
1:D:544:ILE:O	1:D:547:LEU:HG	2.09	0.52
3:F:82:PHE:HE1	3:F:154:TYR:HE1	1.58	0.52
2:B:182:ALA:HA	2:B:185:LYS:HZ2	1.73	0.52
2:B:222:TYR:CE1	2:B:289:LEU:HD11	2.45	0.52
2:B:528:ARG:HA	2:B:551:PHE:HA	1.92	0.52
2:B:1129:PHE:HA	2:B:1132:MET:HG3	1.92	0.52
3:C:2:GLN:NE2	3:C:50:PRO:O	2.42	0.52
2:E:94:THR:HG22	2:E:98:TRP:HE1	1.75	0.52
2:E:105:LEU:HD11	2:E:117:LEU:HD13	1.91	0.52
2:E:166:ARG:HH22	2:E:168:ASP:HB2	1.75	0.52
2:E:421:VAL:HG13	2:E:425:THR:HG21	1.92	0.52
2:E:853:VAL:O	2:E:856:LYS:HG3	2.10	0.52
2:E:860:MET:SD	2:E:905:LEU:HD22	2.50	0.52
2:E:984:ASP:O	2:E:988:GLU:HG3	2.09	0.52
2:E:1102:ILE:CG1	2:E:1131:MET:HB2	2.39	0.52
2:E:1207:TYR:HD2	2:E:1208:ARG:HG3	1.74	0.52
2:E:1359:GLN:NE2	2:E:1455:ARG:HB2	2.25	0.52
2:E:1449:GLN:HA	2:E:1452:ASN:ND2	2.23	0.52
2:E:1618:LEU:HD22	2:E:1621:ARG:HH21	1.75	0.52
3:F:12:GLY:N	3:F:60:GLY:HA3	2.25	0.52
1:A:700:ASP:HB2	2:B:32:GLY:HA2	1.92	0.52
2:B:1058:SER:O	2:B:1062:GLU:HG2	2.09	0.52
2:B:1370:GLN:N	2:B:1421:SER:O	2.40	0.52
3:C:2:GLN:OE1	3:C:2:GLN:N	2.43	0.52
3:C:53:LEU:HD22	3:C:169:PHE:CE1	2.45	0.52
3:C:174:ARG:HA	3:C:177:LEU:HD12	1.92	0.52
2:E:32:GLY:O	2:E:50:LEU:HD13	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:824:ILE:O	2:E:828:LYS:HG2	2.09	0.52
2:B:189:VAL:HA	2:B:192:LYS:HE2	1.91	0.52
2:B:222:TYR:CZ	2:B:289:LEU:HD11	2.44	0.52
2:B:228:PHE:HB3	2:B:277:LEU:HB3	1.92	0.52
2:B:889:GLN:HA	2:B:895:ASN:HD21	1.75	0.52
2:B:902:SER:O	2:B:906:LEU:HG	2.10	0.52
2:B:984:ASP:O	2:B:988:GLU:HG3	2.10	0.52
2:B:1490:THR:OG1	2:B:1506:GLN:N	2.43	0.52
2:B:1521:THR:O	2:B:1524:LEU:HG	2.09	0.52
1:D:584:LYS:HZ1	2:E:1405:ALA:HB2	1.74	0.52
2:E:228:PHE:HB3	2:E:277:LEU:HB3	1.92	0.52
2:E:681:MET:SD	2:E:726:ALA:HB1	2.50	0.52
2:E:741:VAL:HG11	2:E:798:PHE:HD1	1.75	0.52
2:E:795:PHE:O	2:E:798:PHE:HB2	2.10	0.52
2:E:934:ARG:NH1	2:E:938:ARG:HB2	2.25	0.52
2:E:1129:PHE:CG	2:E:1179:HIS:HB3	2.45	0.52
2:E:1544:VAL:HG13	2:E:1547:LEU:HD22	1.92	0.52
3:F:2:GLN:OE1	3:F:2:GLN:N	2.43	0.52
3:F:66:ARG:NH1	3:F:67:LEU:HB2	2.24	0.52
2:B:1153:THR:O	2:B:1157:GLN:NE2	2.43	0.51
1:D:711:PRO:HD2	2:E:17:TYR:CE1	2.45	0.51
2:E:646:ASN:HD21	2:E:649:ASN:HD22	1.57	0.51
2:E:1536:HIS:CD2	2:E:1606:ILE:HB	2.43	0.51
1:A:578:ARG:HH22	1:A:601:HIS:H	1.58	0.51
2:B:7:THR:O	2:B:10:GLN:NE2	2.42	0.51
2:B:60:PRO:O	2:B:64:ILE:N	2.37	0.51
2:B:555:MET:HE2	2:B:561:THR:HA	1.92	0.51
2:B:1079:MET:N	2:B:1079:MET:SD	2.83	0.51
3:C:142:GLY:HA3	3:C:154:TYR:CZ	2.44	0.51
2:E:294:VAL:HG11	2:E:333:ILE:HD12	1.91	0.51
2:E:902:SER:O	2:E:906:LEU:HG	2.10	0.51
2:B:32:GLY:O	2:B:50:LEU:HD13	2.09	0.51
2:B:1306:SER:O	2:B:1310:LYS:HG2	2.11	0.51
2:B:1322:LYS:HD3	2:B:1345:ARG:HH11	1.74	0.51
2:E:44:TRP:CE3	2:E:58:ILE:HG22	2.45	0.51
2:E:222:TYR:CE1	2:E:289:LEU:HD11	2.45	0.51
2:E:637:LEU:O	2:E:641:LEU:HG	2.11	0.51
2:E:1153:THR:O	2:E:1157:GLN:NE2	2.43	0.51
2:E:1600:LEU:O	2:E:1604:ILE:HG12	2.09	0.51
2:B:173:LEU:O	2:B:176:ASP:HB2	2.11	0.51
2:B:262:TRP:CZ3	2:B:268:PRO:HG3	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:295:SER:HB2	2:B:326:VAL:HG13	1.93	0.51
2:B:533:HIS:CE1	2:B:535:SER:HB3	2.44	0.51
2:B:741:VAL:HG11	2:B:798:PHE:HD1	1.75	0.51
2:B:1145:HIS:O	2:B:1149:ASN:ND2	2.44	0.51
2:B:1359:GLN:NE2	2:B:1455:ARG:HB2	2.25	0.51
2:B:1379:LYS:NZ	2:B:1504:VAL:O	2.36	0.51
2:B:1574:LYS:O	2:B:1577:GLN:HB2	2.11	0.51
1:D:576:TYR:CE1	1:D:591:LEU:HG	2.46	0.51
2:E:555:MET:HE2	2:E:561:THR:HA	1.93	0.51
2:E:929:MET:CA	2:E:933:LEU:HD13	2.30	0.51
2:E:1322:LYS:HD3	2:E:1345:ARG:HH11	1.74	0.51
2:E:1557:PRO:HB2	2:E:1561:GLY:CA	2.36	0.51
1:A:532:PRO:HG3	1:A:708:ASP:HA	1.93	0.51
1:A:576:TYR:CE1	1:A:591:LEU:HG	2.46	0.51
2:B:192:LYS:O	2:B:195:GLU:HG2	2.10	0.51
2:B:637:LEU:O	2:B:641:LEU:HG	2.11	0.51
2:B:795:PHE:O	2:B:798:PHE:HB2	2.11	0.51
3:C:82:PHE:HE1	3:C:154:TYR:HE1	1.58	0.51
2:E:73:ASP:O	2:E:78:GLU:N	2.42	0.51
2:E:295:SER:HB2	2:E:326:VAL:HG13	1.93	0.51
2:E:673:LEU:HD13	2:E:719:TYR:CG	2.45	0.51
1:A:551:GLN:NE2	1:A:555:ARG:HD3	2.25	0.51
2:B:219:ILE:O	2:B:222:TYR:OH	2.21	0.51
2:B:1308:PHE:CD1	2:B:1313:MET:HB2	2.46	0.51
2:B:1438:PRO:HB2	2:B:1441:TYR:CD2	2.46	0.51
1:D:582:ASN:HB2	1:D:584:LYS:HG2	1.91	0.51
2:E:25:VAL:HG21	2:E:56:LYS:HG3	1.93	0.51
2:E:243:MET:HG3	2:E:281:PHE:CZ	2.44	0.51
2:E:1079:MET:N	2:E:1079:MET:SD	2.83	0.51
2:E:1129:PHE:HA	2:E:1132:MET:HG3	1.92	0.51
2:E:1145:HIS:O	2:E:1149:ASN:ND2	2.44	0.51
2:E:1490:THR:OG1	2:E:1506:GLN:N	2.44	0.51
3:F:53:LEU:HD22	3:F:169:PHE:CE1	2.45	0.51
2:B:451:ILE:HG23	2:B:510:TYR:CZ	2.46	0.51
2:B:472:VAL:HA	2:B:527:ILE:HA	1.93	0.51
2:B:681:MET:SD	2:B:726:ALA:HB1	2.51	0.51
2:B:880:PRO:HA	2:B:931:ARG:NH1	2.25	0.51
2:B:1478:GLU:OE1	3:C:34:PRO:HG2	2.11	0.51
2:E:30:GLN:NE2	2:E:32:GLY:H	2.08	0.51
2:E:88:VAL:HB	2:E:128:ARG:NH2	2.26	0.51
2:E:179:SER:H	2:E:183:LEU:HD13	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:730:TYR:CE1	2:E:731:VAL:HG23	2.46	0.51
2:E:979:ARG:HG3	2:E:1032:PHE:HE2	1.76	0.51
2:E:1272:GLN:C	2:E:1297:LYS:HD2	2.29	0.51
2:E:1321:SER:OG	2:E:1345:ARG:NH2	2.42	0.51
1:A:544:ILE:HD11	1:A:686:LEU:O	2.10	0.51
1:A:582:ASN:HB2	1:A:584:LYS:HG2	1.91	0.51
2:B:46:ARG:HD2	2:B:58:ILE:HG13	1.91	0.51
2:B:166:ARG:HH22	2:B:168:ASP:HB2	1.75	0.51
1:D:532:PRO:HG3	1:D:708:ASP:HA	1.93	0.51
1:D:578:ARG:HH22	1:D:601:HIS:H	1.58	0.51
2:E:195:GLU:HA	2:E:198:ILE:HG22	1.92	0.51
2:E:880:PRO:HA	2:E:931:ARG:NH1	2.25	0.51
2:E:958:ILE:HG21	2:E:1017:PHE:CE1	2.46	0.51
2:E:1441:TYR:CE2	2:E:1450:ILE:HD13	2.46	0.51
1:A:677:MET:O	1:A:683:ARG:NH1	2.44	0.51
2:B:116:GLN:HA	2:B:119:GLN:HG3	1.93	0.51
2:B:421:VAL:HG13	2:B:425:THR:HG21	1.92	0.51
2:B:934:ARG:NH1	2:B:938:ARG:HB2	2.25	0.51
2:B:1032:PHE:HA	2:B:1036:ALA:HB2	1.93	0.51
2:B:1362:TYR:OH	2:B:1456:ALA:O	2.20	0.51
1:D:576:TYR:HE1	1:D:591:LEU:HG	1.75	0.51
1:D:677:MET:O	1:D:683:ARG:NH1	2.44	0.51
2:E:192:LYS:O	2:E:195:GLU:HG2	2.10	0.51
2:E:203:SER:OG	2:E:210:LEU:HD22	2.11	0.51
2:E:1308:PHE:CD1	2:E:1313:MET:HB2	2.46	0.51
2:E:1373:PRO:HG2	2:E:1376:LEU:HD12	1.91	0.51
2:E:1438:PRO:HB2	2:E:1441:TYR:CD2	2.46	0.51
2:E:1488:THR:O	2:E:1508:SER:N	2.39	0.51
2:B:14:VAL:HB	2:B:65:HIS:HB3	1.91	0.51
2:B:520:GLU:O	2:B:523:THR:OG1	2.15	0.51
2:B:1334:ASP:O	2:B:1338:LEU:N	2.33	0.51
2:B:1563:PHE:HB3	2:B:1637:TYR:OH	2.11	0.51
2:B:1593:ILE:HB	2:B:1597:MET:HE1	1.93	0.51
2:E:46:ARG:HD2	2:E:58:ILE:CG1	2.41	0.51
2:E:238:ASP:O	2:E:303:VAL:N	2.36	0.51
2:E:966:ASP:HA	2:E:969:TYR:CD2	2.46	0.51
2:E:1166:GLU:O	2:E:1169:LYS:HG2	2.10	0.51
2:E:1411:THR:HB	3:F:28:PHE:CZ	2.46	0.51
2:E:1495:PHE:CE1	2:E:1502:PHE:HD2	2.26	0.51
2:E:1614:GLN:HG2	3:F:70:LEU:HD22	1.93	0.51
3:F:174:ARG:HA	3:F:177:LEU:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:179:SER:H	2:B:183:LEU:HD13	1.76	0.50
2:B:228:PHE:HB3	2:B:277:LEU:CB	2.41	0.50
2:B:680:MET:HG3	2:B:681:MET:HE3	1.93	0.50
2:B:1102:ILE:CD1	2:B:1131:MET:HB2	2.41	0.50
2:B:1166:GLU:O	2:B:1169:LYS:HG2	2.10	0.50
2:B:1544:VAL:HG13	2:B:1547:LEU:HD22	1.91	0.50
1:A:577:CYS:SG	1:A:586:LEU:HD12	2.51	0.50
2:B:98:TRP:O	2:B:102:TRP:HD1	1.94	0.50
2:B:1522:MET:HG3	2:B:1566:TYR:HE2	1.75	0.50
1:D:697:ARG:HA	2:E:30:GLN:HE21	1.76	0.50
2:E:121:THR:HA	2:E:124:LEU:HG	1.93	0.50
2:E:1032:PHE:HA	2:E:1036:ALA:HB2	1.93	0.50
2:E:1563:PHE:HB3	2:E:1637:TYR:OH	2.11	0.50
2:E:1633:VAL:HG12	2:E:1637:TYR:CG	2.46	0.50
2:B:45:TYR:O	2:B:59:PHE:N	2.31	0.50
2:B:45:TYR:HD2	2:B:64:ILE:HG13	1.77	0.50
2:B:200:GLU:HA	2:B:203:SER:HB3	1.91	0.50
2:B:589:PRO:HB3	2:B:594:GLU:HB3	1.94	0.50
2:B:757:LEU:HB3	2:B:815:ALA:HB1	1.94	0.50
2:B:958:ILE:HG21	2:B:1017:PHE:CE1	2.46	0.50
2:B:1336:GLU:H	2:B:1336:GLU:CD	2.11	0.50
2:E:98:TRP:O	2:E:102:TRP:HD1	1.94	0.50
2:E:644:ARG:NH2	2:E:678:ASN:OD1	2.43	0.50
1:A:584:LYS:CE	2:B:1405:ALA:HB2	2.41	0.50
1:A:677:MET:HB2	1:A:682:THR:HG21	1.93	0.50
2:B:99:ALA:HA	2:B:102:TRP:HE1	1.75	0.50
2:B:332:ILE:HD13	2:B:403:LEU:HB2	1.94	0.50
2:B:836:LEU:HG	2:B:840:PHE:HE2	1.76	0.50
2:B:1051:VAL:HG11	2:B:1108:PRO:HB3	1.93	0.50
2:B:1618:LEU:HD22	2:B:1621:ARG:HH21	1.75	0.50
1:D:551:GLN:NE2	1:D:555:ARG:HD3	2.26	0.50
1:D:577:CYS:SG	1:D:586:LEU:HD12	2.51	0.50
1:D:584:LYS:NZ	2:E:1399:LEU:O	2.42	0.50
2:E:768:ILE:HG21	2:E:829:LEU:HB2	1.94	0.50
2:E:876:GLU:OE1	2:E:876:GLU:N	2.40	0.50
2:E:1180:CYS:HB3	2:E:1187:SER:HB3	1.94	0.50
2:E:1334:ASP:O	2:E:1338:LEU:N	2.33	0.50
3:F:14:VAL:HG13	3:F:116:LYS:NZ	2.27	0.50
1:A:696:LEU:HD12	1:A:697:ARG:NE	2.26	0.50
2:B:121:THR:HA	2:B:124:LEU:HG	1.93	0.50
2:B:673:LEU:HD13	2:B:719:TYR:CG	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:740:TYR:CE2	2:B:752:LEU:HB3	2.46	0.50
2:B:979:ARG:HG3	2:B:1032:PHE:HE2	1.76	0.50
2:B:1207:TYR:CD2	2:B:1208:ARG:HG3	2.47	0.50
2:B:1632:LYS:O	2:B:1636:HIS:N	2.41	0.50
2:E:321:PRO:HB2	2:E:351:ILE:HD11	1.93	0.50
2:E:757:LEU:HB3	2:E:815:ALA:HB1	1.94	0.50
2:E:931:ARG:HB3	2:E:932:LEU:HD12	1.94	0.50
2:E:1574:LYS:O	2:E:1577:GLN:HB2	2.11	0.50
2:B:195:GLU:HA	2:B:198:ILE:HG22	1.92	0.50
2:B:444:ASN:ND2	2:B:517:ILE:O	2.45	0.50
2:B:644:ARG:NH2	2:B:678:ASN:OD1	2.43	0.50
2:B:730:TYR:CE1	2:B:731:VAL:HG23	2.46	0.50
2:B:966:ASP:HA	2:B:969:TYR:CD2	2.46	0.50
2:B:1102:ILE:CG1	2:B:1131:MET:HB2	2.40	0.50
2:B:1418:ILE:HG13	2:B:1425:TYR:CE2	2.47	0.50
2:B:1602:GLU:N	2:B:1605:ARG:HH21	2.10	0.50
1:D:677:MET:HB2	1:D:682:THR:HG21	1.94	0.50
1:D:696:LEU:HD12	1:D:697:ARG:NE	2.26	0.50
2:E:37:ILE:HG21	2:E:45:TYR:HB3	1.94	0.50
2:E:836:LEU:HG	2:E:840:PHE:HE2	1.76	0.50
2:E:1482:MET:HG3	2:E:1517:ASN:HB3	1.93	0.50
3:F:25:THR:HG21	3:F:32:TYR:HA	1.93	0.50
2:B:1441:TYR:CE2	2:B:1450:ILE:HD13	2.46	0.50
2:B:1444:LYS:HD3	2:E:1333:PHE:HZ	1.77	0.50
1:D:544:ILE:HD11	1:D:686:LEU:O	2.10	0.50
2:E:116:GLN:HA	2:E:119:GLN:HG3	1.93	0.50
2:E:1046:TYR:OH	2:E:1090:MET:HG3	2.11	0.50
2:E:1306:SER:O	2:E:1310:LYS:HG2	2.11	0.50
2:E:1602:GLU:N	2:E:1605:ARG:HH21	2.10	0.50
2:B:88:VAL:HB	2:B:128:ARG:NH2	2.26	0.50
2:B:468:VAL:HB	2:B:498:SER:HB3	1.94	0.50
2:B:871:GLN:OE1	2:B:918:VAL:HG12	2.12	0.50
2:B:931:ARG:HB3	2:B:932:LEU:HD12	1.94	0.50
2:B:1062:GLU:O	2:B:1068:LYS:HB3	2.12	0.50
2:B:1362:TYR:C	2:B:1431:VAL:HG22	2.32	0.50
2:B:1378:ASN:HB3	2:B:1419:LYS:HD3	1.94	0.50
2:B:1562:GLY:HA2	2:B:1565:ASN:HB2	1.94	0.50
2:E:451:ILE:HG23	2:E:510:TYR:CZ	2.46	0.50
2:E:468:VAL:HB	2:E:498:SER:HB3	1.94	0.50
2:E:1102:ILE:CD1	2:E:1131:MET:HB2	2.41	0.50
2:E:1102:ILE:O	2:E:1106:VAL:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1126:PRO:HD3	2:E:1175:LEU:HD12	1.94	0.50
2:E:1463:ARG:HG2	2:E:1487:THR:H	1.77	0.50
2:B:1008:VAL:O	2:B:1012:THR:HG23	2.12	0.50
2:B:1598:PRO:O	2:B:1601:THR:HB	2.12	0.50
1:D:717:PRO:HB2	2:E:1:MET:N	2.27	0.50
2:E:45:TYR:HD2	2:E:64:ILE:HG13	1.77	0.50
2:E:173:LEU:O	2:E:176:ASP:HB2	2.11	0.50
2:E:319:ARG:HB2	2:E:499:VAL:HA	1.94	0.50
2:E:472:VAL:HA	2:E:527:ILE:HA	1.93	0.50
2:E:589:PRO:HB3	2:E:594:GLU:HB3	1.94	0.50
2:E:899:HIS:HB3	2:E:949:HIS:CE1	2.46	0.50
2:E:1062:GLU:O	2:E:1068:LYS:HB3	2.12	0.50
2:E:1200:LEU:O	2:E:1204:LEU:HG	2.12	0.50
2:B:25:VAL:CG2	2:B:57:GLY:HA2	2.40	0.49
2:B:46:ARG:HD2	2:B:58:ILE:CG1	2.41	0.49
2:B:450:LEU:HD21	2:B:470:MET:SD	2.52	0.49
2:B:945:ARG:HH11	2:B:946:GLN:H	1.60	0.49
2:B:1180:CYS:HB3	2:B:1187:SER:HB3	1.93	0.49
2:B:1299:LYS:HE2	2:B:1302:GLN:OE1	2.12	0.49
1:D:570:ARG:HH22	1:D:593:GLU:HG3	1.77	0.49
2:E:228:PHE:HB3	2:E:277:LEU:CB	2.41	0.49
2:E:818:LYS:HZ3	2:E:858:ASN:HB3	1.76	0.49
2:E:1063:THR:HA	2:E:1069:ARG:HH11	1.77	0.49
1:A:552:ARG:HE	1:A:664:ILE:HG23	1.77	0.49
2:B:741:VAL:HG11	2:B:798:PHE:CD1	2.47	0.49
2:B:1046:TYR:OH	2:B:1090:MET:HG3	2.11	0.49
2:B:1619:HIS:HA	2:B:1622:LEU:HG	1.93	0.49
2:E:150:ALA:HB1	2:E:197:LYS:NZ	2.27	0.49
2:E:444:ASN:ND2	2:E:517:ILE:O	2.45	0.49
2:E:741:VAL:HG21	2:E:798:PHE:HE1	1.78	0.49
2:E:1028:LEU:HD23	2:E:1032:PHE:HD1	1.77	0.49
2:E:1388:TYR:CD2	3:F:45:MET:HE2	2.44	0.49
2:E:1619:HIS:HA	2:E:1622:LEU:HG	1.93	0.49
2:B:25:VAL:HG21	2:B:56:LYS:HG3	1.93	0.49
2:B:95:LEU:HD13	2:B:98:TRP:CD1	2.47	0.49
2:B:1633:VAL:HG12	2:B:1637:TYR:CG	2.46	0.49
2:E:417:PHE:HA	2:E:419:HIS:CE1	2.48	0.49
2:E:740:TYR:CE2	2:E:752:LEU:HB3	2.46	0.49
2:E:1483:TRP:CE2	2:E:1514:PRO:HD3	2.47	0.49
2:B:156:ASN:HD22	2:B:161:LEU:HD12	1.77	0.49
2:B:1611:LEU:HD21	2:B:1616:LYS:NZ	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:25:VAL:CG2	2:E:57:GLY:HA2	2.40	0.49
2:E:754:PHE:CZ	2:E:812:ILE:HG13	2.48	0.49
2:B:130:GLN:HG3	2:B:131:ILE:HG12	1.95	0.49
2:B:203:SER:OG	2:B:210:LEU:HD22	2.11	0.49
2:B:321:PRO:HB2	2:B:351:ILE:HD11	1.93	0.49
2:B:436:ILE:HG22	2:B:438:LEU:HD22	1.95	0.49
2:B:768:ILE:HG21	2:B:829:LEU:HB2	1.94	0.49
2:B:899:HIS:HB3	2:B:949:HIS:CE1	2.46	0.49
2:B:1196:LEU:O	2:B:1199:SER:OG	2.26	0.49
2:B:1463:ARG:HG2	2:B:1487:THR:H	1.77	0.49
2:B:1468:PHE:HE2	2:B:1470:LYS:HB2	1.78	0.49
3:C:14:VAL:HG13	3:C:116:LYS:NZ	2.27	0.49
2:E:95:LEU:HD13	2:E:98:TRP:CD1	2.47	0.49
2:E:332:ILE:HD13	2:E:403:LEU:HB2	1.94	0.49
2:E:436:ILE:HG22	2:E:438:LEU:HD22	1.95	0.49
2:E:945:ARG:HH11	2:E:946:GLN:H	1.60	0.49
2:E:1207:TYR:CD2	2:E:1208:ARG:HG3	2.47	0.49
2:E:1451:LEU:O	2:E:1455:ARG:HG3	2.12	0.49
2:E:1515:LEU:HG	2:E:1575:TYR:HE2	1.77	0.49
2:E:1562:GLY:HA2	2:E:1565:ASN:HB2	1.94	0.49
2:E:1611:LEU:HD21	2:E:1616:LYS:NZ	2.27	0.49
1:A:570:ARG:HH22	1:A:593:GLU:HG3	1.77	0.49
2:B:1483:TRP:CE2	2:B:1514:PRO:HD3	2.47	0.49
2:B:1536:HIS:CD2	2:B:1606:ILE:HB	2.43	0.49
2:B:1597:MET:HA	2:B:1600:LEU:HB2	1.94	0.49
2:B:1613:GLU:OE2	2:B:1614:GLN:HG3	2.13	0.49
1:D:680:ASP:OD1	1:D:681:LEU:N	2.45	0.49
2:E:529:PHE:O	2:E:550:ALA:N	2.41	0.49
2:E:1597:MET:HA	2:E:1600:LEU:HB2	1.94	0.49
3:F:129:LEU:HB3	3:F:134:LEU:O	2.13	0.49
2:B:19:TYR:CE2	2:B:26:GLU:HB3	2.48	0.49
2:B:444:ASN:HB2	2:B:519:ILE:HG12	1.95	0.49
2:B:1102:ILE:O	2:B:1106:VAL:HG23	2.12	0.49
3:C:7:VAL:HB	3:C:78:PHE:CE1	2.48	0.49
3:C:25:THR:HG21	3:C:32:TYR:HA	1.94	0.49
2:E:1008:VAL:O	2:E:1012:THR:HG23	2.12	0.49
2:E:1202:GLU:HA	2:E:1205:LEU:HB2	1.95	0.49
2:B:417:PHE:HA	2:B:419:HIS:CE1	2.48	0.49
2:B:647:SER:HA	2:B:650:ILE:HG13	1.94	0.49
3:C:41:SER:OG	3:C:53:LEU:O	2.15	0.49
2:E:19:TYR:CE2	2:E:26:GLU:HB3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:187:HIS:HB3	2:E:1006:TRP:CZ3	2.48	0.49
2:E:741:VAL:HG11	2:E:798:PHE:CD1	2.47	0.49
2:E:1242:ARG:NH1	2:E:1246:LYS:HZ1	2.10	0.49
1:A:589:GLY:O	1:A:591:LEU:N	2.42	0.49
2:B:940:VAL:HG13	2:B:992:MET:HE1	1.95	0.49
1:D:564:LYS:NZ	1:D:590:ASP:OD1	2.40	0.49
2:E:552:VAL:HB	2:E:569:LEU:HD22	1.95	0.49
2:E:646:ASN:ND2	2:E:649:ASN:HD22	2.11	0.49
2:E:871:GLN:OE1	2:E:918:VAL:HG12	2.12	0.49
2:E:1291:TYR:CB	2:E:1296:LEU:HD21	2.40	0.49
2:E:1388:TYR:HD2	3:F:45:MET:CE	2.24	0.49
2:E:1598:PRO:O	2:E:1601:THR:HB	2.12	0.49
1:A:680:ASP:OD1	1:A:681:LEU:N	2.45	0.49
2:B:4:TRP:CD2	2:B:46:ARG:HD3	2.47	0.49
2:B:552:VAL:HB	2:B:569:LEU:HD22	1.95	0.49
2:B:716:LEU:O	2:B:720:ILE:HG13	2.13	0.49
2:B:741:VAL:HG21	2:B:798:PHE:HE1	1.78	0.49
2:B:932:LEU:N	2:B:935:ARG:HH21	2.11	0.49
2:B:1114:LEU:CB	2:B:1163:ARG:HD2	2.41	0.49
2:B:1217:LYS:HD3	2:B:1220:ARG:NH1	2.22	0.49
2:B:1222:SER:O	2:B:1225:VAL:HG22	2.13	0.49
2:B:1359:GLN:HE21	2:B:1455:ARG:HB2	1.77	0.49
2:B:1451:LEU:O	2:B:1455:ARG:HG3	2.13	0.49
2:B:1623:SER:O	2:B:1627:ARG:HD3	2.13	0.49
3:C:60:GLY:HA2	3:C:97:TRP:HZ2	1.78	0.49
3:C:129:LEU:HB3	3:C:134:LEU:O	2.13	0.49
1:D:557:VAL:O	1:D:578:ARG:HG3	2.13	0.49
2:E:46:ARG:HB3	2:E:58:ILE:HA	1.95	0.49
2:E:444:ASN:HB2	2:E:519:ILE:HG12	1.95	0.49
2:E:730:TYR:HD1	2:E:787:PHE:CG	2.31	0.49
2:E:764:PHE:O	2:E:768:ILE:HG12	2.13	0.49
2:E:883:THR:HG21	2:E:931:ARG:HG2	1.95	0.49
2:E:1051:VAL:HG11	2:E:1108:PRO:HB3	1.93	0.49
2:E:1186:LEU:HD12	2:E:1189:SER:HB2	1.95	0.49
2:E:1378:ASN:HB3	2:E:1419:LYS:HD3	1.94	0.49
2:B:319:ARG:HB2	2:B:499:VAL:HA	1.94	0.48
2:B:526:HIS:HB2	2:B:552:VAL:O	2.13	0.48
2:B:1126:PRO:HD3	2:B:1175:LEU:HD12	1.94	0.48
2:B:1390:ARG:HD3	3:C:44:VAL:CG1	2.42	0.48
2:B:1463:ARG:HG3	2:B:1486:ARG:HB3	1.95	0.48
1:D:552:ARG:HE	1:D:664:ILE:HG23	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:166:ARG:HG2	2:E:173:LEU:H	1.77	0.48
2:E:471:SER:HB3	2:E:495:GLU:HG2	1.95	0.48
2:E:560:THR:HG22	2:E:638:LEU:HD23	1.95	0.48
2:E:643:TRP:CD1	2:E:675:ALA:HB1	2.48	0.48
2:E:647:SER:HA	2:E:650:ILE:HG13	1.93	0.48
2:E:759:ALA:O	2:E:763:LEU:HG	2.13	0.48
2:E:1299:LYS:HE2	2:E:1302:GLN:OE1	2.12	0.48
2:E:1379:LYS:HZ3	2:E:1504:VAL:HG12	1.78	0.48
1:A:584:LYS:NZ	2:B:1405:ALA:HB2	2.28	0.48
2:B:111:LEU:HD13	2:B:114:PHE:HD2	1.78	0.48
2:B:646:ASN:ND2	2:B:649:ASN:HD22	2.11	0.48
2:B:670:GLN:HG3	2:B:719:TYR:HD1	1.78	0.48
2:B:759:ALA:O	2:B:763:LEU:HG	2.13	0.48
2:B:1057:GLU:O	2:B:1080:ARG:HD3	2.12	0.48
2:B:1063:THR:HA	2:B:1069:ARG:HH11	1.77	0.48
2:B:1233:GLU:O	2:B:1235:LYS:NZ	2.22	0.48
2:B:1452:ASN:HA	2:B:1455:ARG:CZ	2.43	0.48
2:E:4:TRP:CD2	2:E:46:ARG:HD3	2.47	0.48
2:E:182:ALA:HA	2:E:185:LYS:HZ2	1.78	0.48
2:E:245:LEU:HB3	2:E:254:ILE:HD12	1.95	0.48
2:E:532:ARG:HB3	2:E:534:ARG:HD3	1.95	0.48
2:E:716:LEU:O	2:E:720:ILE:HG13	2.13	0.48
2:E:743:ASN:HB2	2:E:749:LYS:HD2	1.95	0.48
2:E:932:LEU:N	2:E:935:ARG:HH21	2.11	0.48
2:E:1362:TYR:C	2:E:1431:VAL:HG22	2.32	0.48
2:E:1623:SER:O	2:E:1627:ARG:HD3	2.13	0.48
3:F:94:ARG:HA	3:F:98:TYR:HB3	1.95	0.48
1:A:557:VAL:O	1:A:578:ARG:HG3	2.13	0.48
2:B:734:SER:HB3	2:B:787:PHE:HE1	1.79	0.48
2:B:929:MET:CE	2:B:972:TYR:HB3	2.43	0.48
2:B:1186:LEU:HD12	2:B:1189:SER:HB2	1.95	0.48
2:B:1200:LEU:O	2:B:1204:LEU:HG	2.12	0.48
2:E:182:ALA:HA	2:E:185:LYS:HZ3	1.77	0.48
2:E:450:LEU:HD21	2:E:470:MET:SD	2.52	0.48
2:B:150:ALA:HB1	2:B:197:LYS:NZ	2.27	0.48
2:B:238:ASP:O	2:B:303:VAL:N	2.36	0.48
2:B:242:PHE:HB3	2:B:257:ASN:HB3	1.96	0.48
2:B:643:TRP:CD1	2:B:675:ALA:HB1	2.48	0.48
2:B:730:TYR:HD1	2:B:787:PHE:CG	2.31	0.48
2:B:743:ASN:HB2	2:B:749:LYS:HD2	1.95	0.48
2:B:754:PHE:CZ	2:B:812:ILE:HG13	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1202:GLU:HA	2:B:1205:LEU:HB2	1.95	0.48
2:B:1242:ARG:NH1	2:B:1246:LYS:HZ1	2.11	0.48
2:B:1470:LYS:N	2:B:1481:THR:O	2.37	0.48
2:B:1596:GLN:O	2:B:1600:LEU:HG	2.13	0.48
3:C:2:GLN:HE22	3:C:49:LYS:HG3	1.78	0.48
3:C:58:THR:HB	3:C:68:ARG:HH12	1.78	0.48
3:C:94:ARG:HA	3:C:98:TYR:HB3	1.95	0.48
1:D:539:LYS:HE3	2:E:18:ASN:OD1	2.13	0.48
2:E:156:ASN:HD22	2:E:161:LEU:HD12	1.77	0.48
2:E:680:MET:HG3	2:E:681:MET:HE3	1.94	0.48
2:E:921:THR:OG1	2:E:924:HIS:HB3	2.14	0.48
2:E:1057:GLU:O	2:E:1080:ARG:HD3	2.12	0.48
2:E:1145:HIS:HA	2:E:1148:GLU:HG3	1.96	0.48
2:E:1362:TYR:CE2	2:E:1459:VAL:HG21	2.49	0.48
2:E:1383:TYR:CD2	2:E:1501:TRP:HB3	2.49	0.48
2:E:1596:GLN:O	2:E:1600:LEU:HG	2.13	0.48
2:E:1618:LEU:HD22	2:E:1621:ARG:NH2	2.28	0.48
3:F:39:ASN:OD1	3:F:57:ASP:N	2.47	0.48
2:B:72:GLU:HG3	2:B:74:LEU:H	1.79	0.48
2:B:187:HIS:HB3	2:B:1006:TRP:CZ3	2.48	0.48
2:B:764:PHE:O	2:B:768:ILE:HG12	2.13	0.48
2:B:987:MET:CE	2:B:1042:LEU:HD13	2.44	0.48
2:B:1481:THR:O	2:B:1483:TRP:HD1	1.97	0.48
3:C:6:CYS:SG	3:C:77:VAL:HG23	2.54	0.48
3:C:39:ASN:OD1	3:C:57:ASP:N	2.47	0.48
1:D:584:LYS:CD	2:E:1403:PRO:HA	2.43	0.48
2:E:4:TRP:HZ3	2:E:45:TYR:HA	1.78	0.48
2:E:734:SER:HB3	2:E:787:PHE:HE1	1.78	0.48
2:E:1196:LEU:HD22	2:E:1234:LYS:HD2	1.95	0.48
2:E:1275:ASP:OD2	2:E:1275:ASP:N	2.45	0.48
2:E:1383:TYR:CG	2:E:1501:TRP:HB3	2.49	0.48
2:E:1463:ARG:HG3	2:E:1486:ARG:HB3	1.95	0.48
2:E:1539:ASP:OD1	2:E:1541:SER:N	2.47	0.48
3:F:7:VAL:HB	3:F:78:PHE:CE1	2.48	0.48
2:B:98:TRP:HA	2:B:101:ILE:HG22	1.96	0.48
2:B:273:LYS:O	2:B:277:LEU:HG	2.14	0.48
2:B:471:SER:HB3	2:B:495:GLU:HG2	1.95	0.48
2:B:883:THR:HG21	2:B:931:ARG:HG2	1.95	0.48
2:B:1256:ASN:HB3	2:B:1259:GLU:OE1	2.14	0.48
2:B:1379:LYS:HZ3	2:B:1504:VAL:HG12	1.78	0.48
2:B:1460:GLN:OE1	2:B:1494:THR:HA	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1482:MET:HG3	2:B:1517:ASN:HB3	1.94	0.48
2:B:1517:ASN:O	2:B:1520:GLU:HG3	2.14	0.48
2:B:1557:PRO:O	2:B:1561:GLY:HA2	2.14	0.48
2:B:1618:LEU:HD22	2:B:1621:ARG:NH2	2.28	0.48
1:D:569:ARG:NH2	1:D:571:GLN:OE1	2.47	0.48
1:D:697:ARG:HD3	2:E:30:GLN:HG2	1.95	0.48
2:E:98:TRP:O	2:E:102:TRP:CD1	2.67	0.48
2:E:191:SER:HA	2:E:194:ILE:HD12	1.96	0.48
2:E:248:PRO:HD2	2:E:293:ARG:HG3	1.96	0.48
2:E:728:LEU:HA	2:E:730:TYR:CE2	2.49	0.48
2:E:915:ARG:HA	2:E:915:ARG:HH11	1.79	0.48
2:E:1359:GLN:HE21	2:E:1455:ARG:HB2	1.77	0.48
2:E:1618:LEU:O	2:E:1622:LEU:HG	2.14	0.48
3:F:58:THR:HB	3:F:68:ARG:HH12	1.78	0.48
2:B:669:LEU:HD11	2:B:716:LEU:HD13	1.95	0.48
2:B:915:ARG:HA	2:B:915:ARG:HH11	1.78	0.48
2:B:1028:LEU:HD23	2:B:1032:PHE:HD1	1.77	0.48
2:B:1098:LYS:HD2	2:B:1134:CYS:SG	2.54	0.48
2:B:1185:TYR:O	2:B:1188:SER:OG	2.18	0.48
2:B:1357:ARG:NH1	2:B:1456:ALA:HB3	2.28	0.48
2:E:72:GLU:HG3	2:E:74:LEU:H	1.79	0.48
2:E:230:ASN:HA	2:E:274:LEU:HD11	1.96	0.48
2:E:751:GLU:OE2	2:E:751:GLU:N	2.38	0.48
2:E:792:ARG:HA	2:E:795:PHE:HD2	1.78	0.48
2:E:1006:TRP:CE3	2:E:1009:MET:HG3	2.49	0.48
2:E:1372:PHE:HE1	2:E:1402:PHE:CD2	2.32	0.48
2:B:4:TRP:HZ3	2:B:45:TYR:HA	1.78	0.48
2:B:37:ILE:HG21	2:B:45:TYR:HB3	1.94	0.48
2:B:98:TRP:O	2:B:102:TRP:CD1	2.67	0.48
2:B:166:ARG:HG2	2:B:173:LEU:H	1.77	0.48
2:B:191:SER:HA	2:B:194:ILE:HD12	1.96	0.48
2:B:230:ASN:HA	2:B:274:LEU:HD11	1.96	0.48
2:B:529:PHE:O	2:B:550:ALA:N	2.41	0.48
2:B:532:ARG:HB3	2:B:534:ARG:HD3	1.95	0.48
2:B:728:LEU:O	2:B:732:LYS:HG2	2.14	0.48
2:B:737:LEU:HD23	2:B:764:PHE:CZ	2.49	0.48
2:B:983:ILE:HD11	2:B:1032:PHE:CD2	2.48	0.48
2:E:130:GLN:HG3	2:E:131:ILE:HG12	1.95	0.48
2:E:584:PHE:O	2:E:588:LEU:HG	2.14	0.48
2:E:670:GLN:HG3	2:E:719:TYR:HD1	1.78	0.48
2:E:1222:SER:O	2:E:1225:VAL:HG22	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1408:MET:HB3	2:E:1410:SER:HB3	1.96	0.48
3:F:110:ILE:O	3:F:152:VAL:HG12	2.14	0.48
3:F:145:MET:O	3:F:148:GLU:HB3	2.14	0.48
2:B:248:PRO:HD2	2:B:293:ARG:HG3	1.96	0.48
2:B:257:ASN:O	2:B:487:GLY:HA3	2.14	0.48
2:B:1078:ASP:OD1	2:B:1081:LYS:HG2	2.13	0.48
2:B:1145:HIS:HA	2:B:1148:GLU:HG3	1.96	0.48
2:B:1468:PHE:N	2:B:1483:TRP:O	2.47	0.48
2:B:1633:VAL:O	2:B:1639:VAL:HG22	2.14	0.48
1:D:536:LEU:HD21	2:E:17:TYR:CA	2.43	0.48
2:E:118:GLN:HB3	2:E:122:TYR:CZ	2.49	0.48
2:E:242:PHE:HB3	2:E:257:ASN:HB3	1.96	0.48
2:E:983:ILE:HD11	2:E:1032:PHE:CD2	2.48	0.48
2:E:1452:ASN:HA	2:E:1455:ARG:CZ	2.43	0.48
2:B:72:GLU:OE1	2:B:86:PRO:HG3	2.14	0.48
2:B:302:ARG:HD3	2:B:322:PHE:CD1	2.47	0.48
2:B:839:LEU:HG	2:B:842:LYS:HZ1	1.79	0.48
2:B:1387:GLU:HG2	2:B:1388:TYR:N	2.28	0.48
1:D:687:ASP:OD1	1:D:688:THR:N	2.47	0.48
1:D:716:GLU:HG3	2:E:44:TRP:CZ2	2.48	0.48
2:E:111:LEU:HD13	2:E:114:PHE:HD2	1.78	0.48
2:E:556:ASN:N	2:E:560:THR:O	2.41	0.48
2:E:728:LEU:O	2:E:732:LYS:HG2	2.14	0.48
2:E:754:PHE:CZ	2:E:811:LYS:HB2	2.49	0.48
2:E:754:PHE:HZ	2:E:811:LYS:HB2	1.78	0.48
2:E:1114:LEU:CB	2:E:1163:ARG:HD2	2.41	0.48
2:E:1344:LYS:HB3	2:E:1348:PHE:CZ	2.49	0.48
2:E:1468:PHE:N	2:E:1483:TRP:O	2.47	0.48
1:A:544:ILE:HG12	1:A:686:LEU:HG	1.95	0.47
2:B:754:PHE:CZ	2:B:811:LYS:HB2	2.49	0.47
2:B:792:ARG:HA	2:B:795:PHE:HD2	1.78	0.47
2:B:1133:GLN:NE2	2:B:1133:GLN:O	2.47	0.47
2:B:1362:TYR:CE2	2:B:1459:VAL:HG21	2.49	0.47
2:B:1368:TYR:CE2	2:B:1419:LYS:HE3	2.49	0.47
2:B:1408:MET:HB3	2:B:1410:SER:HB3	1.96	0.47
2:B:1483:TRP:CZ2	2:B:1513:SER:HA	2.49	0.47
2:B:1539:ASP:OD1	2:B:1541:SER:N	2.47	0.47
2:B:1560:MET:HG3	3:C:36:VAL:HG22	1.95	0.47
2:B:1622:LEU:O	2:B:1626:PHE:CB	2.61	0.47
2:E:1196:LEU:O	2:E:1199:SER:OG	2.26	0.47
2:E:1206:ASP:HA	2:E:1209:THR:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1256:ASN:HB3	2:E:1259:GLU:OE1	2.14	0.47
2:E:1460:GLN:OE1	2:E:1494:THR:HA	2.13	0.47
2:E:1517:ASN:O	2:E:1520:GLU:HG3	2.14	0.47
2:E:1557:PRO:O	2:E:1561:GLY:HA2	2.14	0.47
2:E:1613:GLU:OE2	2:E:1614:GLN:HG3	2.13	0.47
3:F:43:ASN:HA	3:F:51:VAL:O	2.14	0.47
3:F:155:LEU:HD13	3:F:168:VAL:HG22	1.95	0.47
2:B:179:SER:HA	2:B:962:GLN:HE22	1.79	0.47
2:B:893:ASN:O	2:B:896:LYS:NZ	2.47	0.47
2:B:1196:LEU:HD22	2:B:1234:LYS:HD2	1.94	0.47
3:C:120:ARG:HH12	3:C:139:TYR:HB2	1.79	0.47
2:E:724:PHE:CZ	2:E:726:ALA:HB3	2.49	0.47
2:E:929:MET:HB2	2:E:964:MET:CE	2.44	0.47
2:E:1123:ALA:O	2:E:1126:PRO:HG2	2.14	0.47
2:E:1125:ILE:CG1	2:E:1172:LEU:HD23	2.44	0.47
2:E:1280:PRO:HA	2:E:1283:LEU:HD23	1.96	0.47
2:E:1318:ILE:HD11	2:E:1348:PHE:HB2	1.97	0.47
2:E:1401:GLN:HG3	2:E:1402:PHE:CE2	2.49	0.47
2:E:1418:ILE:HG13	2:E:1425:TYR:CE2	2.47	0.47
3:F:120:ARG:HH12	3:F:139:TYR:HB2	1.79	0.47
1:A:642:PHE:HB3	1:A:662:TYR:HE1	1.79	0.47
1:A:687:ASP:OD1	1:A:688:THR:N	2.47	0.47
2:B:118:GLN:HB3	2:B:122:TYR:CZ	2.49	0.47
2:B:728:LEU:HA	2:B:730:TYR:CE2	2.49	0.47
2:B:921:THR:OG1	2:B:924:HIS:HB3	2.14	0.47
2:B:997:ILE:HG13	2:B:998:GLY:H	1.79	0.47
2:B:1515:LEU:HD23	2:B:1589:LEU:HD11	1.96	0.47
2:E:188:GLU:HG3	2:E:192:LYS:NZ	2.29	0.47
2:E:273:LYS:O	2:E:277:LEU:HG	2.14	0.47
2:E:893:ASN:O	2:E:896:LYS:NZ	2.47	0.47
2:E:929:MET:CE	2:E:972:TYR:HB3	2.43	0.47
2:E:1078:ASP:OD1	2:E:1081:LYS:HG2	2.13	0.47
2:E:1416:GLU:O	2:E:1419:LYS:HB2	2.15	0.47
3:F:60:GLY:HA2	3:F:97:TRP:HZ2	1.78	0.47
1:A:643:SER:HA	1:A:652:LEU:O	2.15	0.47
2:B:39:GLU:CD	2:B:46:ARG:HE	2.17	0.47
2:B:473:HIS:HB3	2:B:477:GLY:HA2	1.96	0.47
2:B:751:GLU:OE2	2:B:751:GLU:N	2.38	0.47
2:B:802:MET:HG2	2:B:843:PHE:HE1	1.79	0.47
2:B:928:ILE:O	2:B:932:LEU:HB2	2.15	0.47
2:B:1123:ALA:O	2:B:1126:PRO:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1583:GLN:HG3	2:B:1586:VAL:HG12	1.97	0.47
2:B:1590:LYS:HB3	2:B:1639:VAL:HG12	1.97	0.47
3:C:155:LEU:HD13	3:C:168:VAL:HG22	1.95	0.47
1:D:563:ARG:HB2	1:D:655:ILE:O	2.14	0.47
1:D:585:VAL:HG12	1:D:607:LYS:HD2	1.96	0.47
2:E:257:ASN:O	2:E:487:GLY:HA3	2.14	0.47
2:E:288:ASP:OD1	2:E:291:ARG:NH2	2.47	0.47
2:E:526:HIS:HB2	2:E:552:VAL:O	2.13	0.47
2:E:669:LEU:HD11	2:E:716:LEU:HD13	1.95	0.47
2:E:737:LEU:HD23	2:E:764:PHE:CZ	2.49	0.47
2:E:795:PHE:HZ	2:E:836:LEU:HD12	1.79	0.47
2:E:1387:GLU:HG2	2:E:1388:TYR:N	2.28	0.47
2:E:1607:HIS:NE2	2:E:1619:HIS:HB2	2.29	0.47
3:F:2:GLN:HE22	3:F:49:LYS:HG3	1.79	0.47
3:F:6:CYS:SG	3:F:77:VAL:HG23	2.54	0.47
2:B:902:SER:HA	2:B:905:LEU:HD12	1.96	0.47
2:B:1122:LYS:HE2	2:B:1171:LEU:HD22	1.97	0.47
2:B:1280:PRO:HA	2:B:1283:LEU:HD23	1.96	0.47
2:B:1301:TYR:O	2:B:1305:ILE:HG12	2.15	0.47
2:B:1383:TYR:CD2	2:B:1501:TRP:HB3	2.49	0.47
2:B:1384:ARG:HE	2:B:1495:PHE:HB3	1.80	0.47
2:B:1601:THR:HG1	2:B:1626:PHE:HZ	1.63	0.47
3:C:43:ASN:HA	3:C:51:VAL:O	2.14	0.47
2:E:802:MET:HG2	2:E:843:PHE:HE1	1.79	0.47
2:E:909:ILE:HA	2:E:912:VAL:HG22	1.97	0.47
2:E:1468:PHE:HE2	2:E:1470:LYS:HB2	1.78	0.47
2:E:1515:LEU:HD23	2:E:1589:LEU:HD11	1.96	0.47
2:E:1534:GLN:HB3	2:E:1538:TRP:HZ3	1.80	0.47
2:E:1562:GLY:HA3	3:F:36:VAL:HG21	1.96	0.47
3:F:24:THR:HG21	3:F:40:TYR:HB3	1.97	0.47
1:A:625:MET:HE3	1:A:637:VAL:O	2.13	0.47
2:B:46:ARG:HB3	2:B:58:ILE:HA	1.95	0.47
2:B:1044:ASN:HA	2:B:1101:PHE:HZ	1.80	0.47
2:B:1169:LYS:HE3	2:B:1202:GLU:HB3	1.97	0.47
2:B:1383:TYR:CG	2:B:1501:TRP:HB3	2.49	0.47
2:B:1614:GLN:O	2:B:1618:LEU:HD23	2.15	0.47
1:D:642:PHE:HB3	1:D:662:TYR:HE1	1.79	0.47
2:E:902:SER:HA	2:E:905:LEU:HD12	1.96	0.47
2:E:1098:LYS:HD2	2:E:1134:CYS:SG	2.54	0.47
2:E:1570:PHE:HA	2:E:1575:TYR:CG	2.50	0.47
2:E:1590:LYS:HB3	2:E:1639:VAL:HG12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:153:LYS:NZ	3:F:154:TYR:O	2.37	0.47
1:A:585:VAL:HG12	1:A:607:LYS:HD2	1.96	0.47
2:B:48:TYR:HB3	2:B:53:LYS:HA	1.96	0.47
2:B:105:LEU:CD1	2:B:117:LEU:HD13	2.45	0.47
2:B:166:ARG:HB2	2:B:174:ASP:H	1.79	0.47
2:B:188:GLU:HG3	2:B:192:LYS:HZ3	1.79	0.47
2:B:245:LEU:HB3	2:B:254:ILE:HD12	1.95	0.47
2:B:560:THR:HG22	2:B:638:LEU:HD23	1.95	0.47
2:B:584:PHE:O	2:B:588:LEU:HG	2.14	0.47
2:B:737:LEU:HD23	2:B:764:PHE:HZ	1.80	0.47
2:B:771:ARG:CZ	2:B:787:PHE:HB3	2.44	0.47
2:B:801:LEU:HA	2:B:804:ARG:NE	2.30	0.47
2:B:856:LYS:HZ3	2:B:885:GLN:HB2	1.78	0.47
2:B:868:LEU:HD11	2:B:871:GLN:HG3	1.97	0.47
2:B:909:ILE:HA	2:B:912:VAL:HG22	1.97	0.47
2:B:1249:ASP:HA	2:B:1252:ARG:CD	2.45	0.47
2:B:1323:GLU:HA	2:B:1326:GLU:HB3	1.97	0.47
2:B:1372:PHE:HE1	2:B:1402:PHE:CD2	2.32	0.47
2:B:1401:GLN:HG3	2:B:1402:PHE:CE2	2.49	0.47
2:B:1545:HIS:CB	3:C:5:LYS:HE2	2.43	0.47
2:B:1576:LEU:HG	2:B:1583:GLN:HG2	1.97	0.47
2:B:1599:LEU:HA	2:B:1602:GLU:OE1	2.15	0.47
2:B:1609:GLU:O	2:B:1610:LYS:HD2	2.15	0.47
2:B:1618:LEU:O	2:B:1622:LEU:HG	2.14	0.47
3:C:82:PHE:CE1	3:C:154:TYR:HE1	2.32	0.47
3:C:110:ILE:O	3:C:152:VAL:HG12	2.14	0.47
1:D:714:PRO:HD3	2:E:62:THR:HG21	1.96	0.47
2:E:60:PRO:O	2:E:64:ILE:N	2.37	0.47
2:E:98:TRP:HA	2:E:101:ILE:HG22	1.96	0.47
2:E:179:SER:HA	2:E:962:GLN:HE22	1.79	0.47
2:E:737:LEU:HD23	2:E:764:PHE:HZ	1.79	0.47
2:E:792:ARG:O	2:E:796:LEU:HG	2.15	0.47
2:E:895:ASN:O	2:E:899:HIS:N	2.48	0.47
2:E:979:ARG:HG3	2:E:1032:PHE:CE2	2.50	0.47
2:E:987:MET:O	2:E:991:ILE:HG12	2.15	0.47
2:E:997:ILE:HG13	2:E:998:GLY:H	1.79	0.47
2:E:1061:LEU:HA	2:E:1064:PHE:CE1	2.50	0.47
2:E:1368:TYR:HB2	2:E:1408:MET:HE1	1.97	0.47
2:E:1406:GLU:OE2	2:E:1423:LYS:HG3	2.14	0.47
2:E:1599:LEU:HA	2:E:1602:GLU:OE1	2.15	0.47
2:E:1622:LEU:O	2:E:1626:PHE:CB	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:563:ARG:HB2	1:A:655:ILE:O	2.14	0.47
1:A:569:ARG:NH2	1:A:571:GLN:OE1	2.47	0.47
2:B:26:GLU:OE1	2:B:29:LEU:HD11	2.14	0.47
2:B:222:TYR:CD1	2:B:289:LEU:HD21	2.50	0.47
2:B:331:ASP:HB3	2:B:336:LYS:HB2	1.97	0.47
2:B:450:LEU:O	2:B:509:TRP:HB2	2.15	0.47
2:B:720:ILE:HG12	2:B:766:PHE:CZ	2.50	0.47
2:B:754:PHE:HZ	2:B:811:LYS:HB2	1.78	0.47
2:B:1133:GLN:O	2:B:1136:PHE:HB3	2.15	0.47
2:B:1291:TYR:CB	2:B:1296:LEU:HD21	2.40	0.47
2:B:1318:ILE:HD11	2:B:1348:PHE:HB2	1.97	0.47
2:B:1406:GLU:C	2:B:1407:LYS:HD3	2.36	0.47
2:B:1570:PHE:HA	2:B:1575:TYR:CG	2.50	0.47
1:D:544:ILE:HG12	1:D:686:LEU:HG	1.95	0.47
2:E:26:GLU:OE1	2:E:29:LEU:HD11	2.14	0.47
2:E:39:GLU:CD	2:E:46:ARG:HE	2.17	0.47
2:E:45:TYR:N	2:E:59:PHE:O	2.48	0.47
2:E:166:ARG:HB2	2:E:174:ASP:H	1.79	0.47
2:E:1028:LEU:HD22	2:E:1043:TRP:CH2	2.50	0.47
2:E:1633:VAL:O	2:E:1639:VAL:HG22	2.14	0.47
1:A:584:LYS:HZ1	2:B:1405:ALA:HB2	1.78	0.47
2:B:724:PHE:CZ	2:B:726:ALA:HB3	2.49	0.47
2:B:802:MET:SD	2:B:846:SER:OG	2.58	0.47
2:B:1221:MET:O	2:B:1225:VAL:HG13	2.15	0.47
2:B:1570:PHE:HA	2:B:1575:TYR:CD2	2.50	0.47
2:E:95:LEU:HD21	2:E:124:LEU:CD1	2.45	0.47
2:E:163:LEU:HD22	2:E:187:HIS:HE1	1.80	0.47
2:E:1283:LEU:HD11	2:E:1291:TYR:HB2	1.97	0.47
2:E:1370:GLN:OE1	2:E:1377:ARG:NH1	2.48	0.47
2:E:1609:GLU:O	2:E:1610:LYS:HD2	2.15	0.47
3:F:7:VAL:CG2	3:F:71:SER:HB3	2.45	0.47
2:B:45:TYR:N	2:B:59:PHE:O	2.48	0.47
2:B:150:ALA:HB1	2:B:197:LYS:HZ1	1.79	0.47
2:B:157:ARG:HH21	2:B:198:ILE:HG12	1.80	0.47
2:B:225:TYR:CZ	2:B:227:ASN:HB2	2.50	0.47
2:B:531:PHE:CE2	2:B:571:VAL:HG22	2.50	0.47
2:B:869:PHE:HA	2:B:918:VAL:HA	1.97	0.47
2:B:929:MET:HB2	2:B:964:MET:CE	2.44	0.47
2:B:1007:MET:O	2:B:1011:MET:HG2	2.15	0.47
2:B:1344:LYS:HB3	2:B:1348:PHE:CZ	2.49	0.47
2:B:1406:GLU:OE2	2:B:1423:LYS:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:145:MET:O	3:C:148:GLU:HB3	2.14	0.47
1:D:625:MET:HE3	1:D:637:VAL:O	2.15	0.47
2:E:890:LEU:CD1	2:E:935:ARG:HA	2.45	0.47
2:E:928:ILE:O	2:E:932:LEU:HB2	2.15	0.47
2:E:986:LEU:HB3	2:E:1042:LEU:HD21	1.97	0.47
2:E:1308:PHE:HD1	2:E:1313:MET:HB2	1.79	0.47
2:E:1399:LEU:HD22	2:E:1405:ALA:HA	1.97	0.47
2:E:1481:THR:O	2:E:1483:TRP:HD1	1.97	0.47
3:F:113:VAL:HA	3:F:155:LEU:O	2.15	0.47
3:F:163:ARG:C	3:F:165:LEU:H	2.19	0.47
1:A:591:LEU:HD22	1:A:604:LEU:HD23	1.97	0.46
2:B:143:GLU:HA	2:B:146:LYS:HE2	1.97	0.46
2:B:188:GLU:HG3	2:B:192:LYS:NZ	2.29	0.46
2:B:521:GLU:HG3	2:B:524:ARG:CZ	2.45	0.46
2:B:876:GLU:OE1	2:B:876:GLU:N	2.40	0.46
2:B:890:LEU:CD1	2:B:935:ARG:HA	2.45	0.46
2:B:1308:PHE:HD1	2:B:1313:MET:HB2	1.79	0.46
3:C:113:VAL:HA	3:C:155:LEU:O	2.15	0.46
2:E:72:GLU:OE1	2:E:86:PRO:HG3	2.14	0.46
2:E:105:LEU:CD1	2:E:117:LEU:HD13	2.45	0.46
2:E:479:LEU:HD11	2:E:494:SER:HB3	1.97	0.46
2:E:800:MET:CE	2:E:804:ARG:HH21	2.28	0.46
2:E:869:PHE:HA	2:E:918:VAL:HA	1.97	0.46
2:E:1169:LYS:HE3	2:E:1202:GLU:HB3	1.97	0.46
2:E:1249:ASP:HA	2:E:1252:ARG:CD	2.45	0.46
2:E:1273:TRP:CD2	2:E:1297:LYS:HD3	2.50	0.46
2:E:1323:GLU:HA	2:E:1326:GLU:HB3	1.97	0.46
2:E:1601:THR:C	2:E:1605:ARG:HE	2.15	0.46
2:B:479:LEU:HD11	2:B:494:SER:HB3	1.97	0.46
2:B:485:HIS:O	2:B:514:LYS:N	2.48	0.46
2:B:640:LEU:HD21	2:B:676:LEU:HD21	1.97	0.46
2:E:179:SER:H	2:E:183:LEU:CD1	2.28	0.46
2:E:450:LEU:O	2:E:509:TRP:HB2	2.15	0.46
2:E:521:GLU:HG3	2:E:524:ARG:CZ	2.45	0.46
2:E:720:ILE:HG12	2:E:766:PHE:CZ	2.50	0.46
2:E:1337:GLY:HA2	2:E:1340:ASN:HD21	1.80	0.46
2:E:1432:LYS:HD3	2:E:1433:PRO:HD2	1.98	0.46
3:F:82:PHE:CE1	3:F:154:TYR:HE1	2.33	0.46
2:B:45:TYR:HE2	2:B:61:GLU:HG3	1.81	0.46
2:B:124:LEU:HD12	2:B:125:ILE:N	2.31	0.46
2:B:166:ARG:HB3	2:B:171:ASN:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:530:THR:HA	2:B:549:VAL:HG22	1.96	0.46
2:B:1028:LEU:HD22	2:B:1043:TRP:CH2	2.50	0.46
2:B:1127:ILE:HA	2:B:1130:ASP:OD2	2.15	0.46
2:B:1136:PHE:HD1	2:B:1186:LEU:HD23	1.80	0.46
2:B:1399:LEU:HD22	2:B:1405:ALA:HA	1.97	0.46
3:C:24:THR:HG21	3:C:40:TYR:HB3	1.97	0.46
2:E:225:TYR:CZ	2:E:227:ASN:HB2	2.50	0.46
2:E:526:HIS:CE1	2:E:586:LEU:HD21	2.50	0.46
2:E:771:ARG:CZ	2:E:787:PHE:HB3	2.44	0.46
2:E:823:ILE:O	2:E:827:VAL:HG23	2.16	0.46
2:E:868:LEU:HD11	2:E:871:GLN:HG3	1.97	0.46
2:E:987:MET:CE	2:E:1042:LEU:HD13	2.44	0.46
2:E:1127:ILE:HA	2:E:1130:ASP:OD2	2.15	0.46
2:E:1133:GLN:NE2	2:E:1133:GLN:O	2.47	0.46
2:E:1362:TYR:OH	2:E:1456:ALA:O	2.20	0.46
2:E:1470:LYS:N	2:E:1481:THR:O	2.37	0.46
2:E:1563:PHE:O	2:E:1567:GLU:HG2	2.16	0.46
2:E:1576:LEU:HG	2:E:1583:GLN:HG2	1.97	0.46
2:E:1583:GLN:HG3	2:E:1586:VAL:HG12	1.97	0.46
2:E:1614:GLN:O	2:E:1618:LEU:HD23	2.15	0.46
3:F:53:LEU:HD22	3:F:169:PHE:HE1	1.80	0.46
3:F:122:ASP:O	3:F:126:ILE:HG12	2.16	0.46
1:A:566:ASN:OD1	1:A:633:GLN:NE2	2.49	0.46
1:A:624:HIS:HB3	1:A:653:ASN:HB3	1.97	0.46
1:A:727:ASN:H	2:B:46:ARG:HH21	1.62	0.46
2:B:62:THR:HG23	2:B:63:TYR:CD1	2.50	0.46
2:B:296:LEU:HB2	2:B:329:ILE:HG21	1.97	0.46
2:B:1515:LEU:HG	2:B:1575:TYR:HE2	1.76	0.46
3:C:21:ILE:HB	3:C:40:TYR:CE2	2.51	0.46
1:D:617:VAL:O	1:D:642:PHE:HA	2.15	0.46
1:D:643:SER:HA	1:D:652:LEU:O	2.15	0.46
2:E:124:LEU:HD12	2:E:125:ILE:N	2.31	0.46
2:E:296:LEU:HB2	2:E:329:ILE:HG21	1.97	0.46
2:E:473:HIS:HB3	2:E:477:GLY:HA2	1.96	0.46
2:E:640:LEU:HD21	2:E:676:LEU:HD21	1.97	0.46
2:E:802:MET:HG2	2:E:843:PHE:CE1	2.51	0.46
2:E:1057:GLU:HA	2:E:1061:LEU:HD22	1.98	0.46
2:E:1221:MET:O	2:E:1225:VAL:HG13	2.15	0.46
2:E:1231:TYR:HH	2:E:1243:TYR:HE1	1.62	0.46
2:E:1406:GLU:C	2:E:1407:LYS:HD3	2.35	0.46
2:E:1483:TRP:CZ2	2:E:1513:SER:HA	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1491:THR:HG21	2:E:1495:PHE:CE1	2.51	0.46
2:B:526:HIS:HE1	2:B:585:TYR:OH	1.99	0.46
2:B:840:PHE:O	2:B:844:ILE:HG13	2.16	0.46
2:B:895:ASN:O	2:B:899:HIS:N	2.48	0.46
2:B:979:ARG:HG3	2:B:1032:PHE:CE2	2.50	0.46
2:B:1061:LEU:HA	2:B:1064:PHE:CE1	2.50	0.46
2:B:1125:ILE:CG1	2:B:1172:LEU:HD23	2.44	0.46
2:B:1129:PHE:HZ	2:B:1183:HIS:HB2	1.81	0.46
2:B:1353:ILE:HG23	2:E:1335:TYR:CD2	2.51	0.46
2:B:1362:TYR:CE1	2:B:1384:ARG:HG3	2.50	0.46
2:B:1607:HIS:NE2	2:B:1619:HIS:HB2	2.29	0.46
3:C:7:VAL:CG2	3:C:71:SER:HB3	2.45	0.46
2:E:7:THR:HG22	2:E:9:ARG:H	1.80	0.46
2:E:820:LEU:HD12	2:E:823:ILE:HD11	1.98	0.46
2:E:958:ILE:HG21	2:E:1017:PHE:HE1	1.81	0.46
2:E:1007:MET:O	2:E:1011:MET:HG2	2.15	0.46
2:E:1133:GLN:O	2:E:1136:PHE:HB3	2.15	0.46
2:E:1362:TYR:CE1	2:E:1384:ARG:HG3	2.51	0.46
2:E:1368:TYR:CE2	2:E:1419:LYS:HE3	2.49	0.46
2:B:820:LEU:HD12	2:B:823:ILE:HD11	1.98	0.46
2:B:986:LEU:HB3	2:B:1042:LEU:HD21	1.97	0.46
2:B:1012:THR:O	2:B:1016:VAL:HG22	2.16	0.46
2:B:1057:GLU:HA	2:B:1061:LEU:HD22	1.98	0.46
2:B:1125:ILE:HA	2:B:1128:PHE:CD2	2.51	0.46
2:B:1181:ARG:C	2:B:1183:HIS:H	2.19	0.46
2:B:1206:ASP:HA	2:B:1209:THR:HG22	1.96	0.46
3:C:53:LEU:HD22	3:C:169:PHE:HE1	1.80	0.46
3:C:153:LYS:NZ	3:C:154:TYR:O	2.37	0.46
1:D:566:ASN:OD1	1:D:633:GLN:NE2	2.49	0.46
2:E:45:TYR:HE2	2:E:61:GLU:HG3	1.81	0.46
2:E:62:THR:HG23	2:E:63:TYR:CD1	2.50	0.46
2:E:157:ARG:HH21	2:E:198:ILE:HG12	1.80	0.46
2:E:485:HIS:O	2:E:514:LYS:N	2.48	0.46
2:E:529:PHE:HE2	2:E:552:VAL:HG12	1.81	0.46
2:E:801:LEU:HA	2:E:804:ARG:NE	2.30	0.46
2:E:907:SER:OG	2:E:908:ASN:N	2.49	0.46
2:E:1007:MET:HE3	2:E:1007:MET:H	1.81	0.46
2:E:1122:LYS:HE2	2:E:1171:LEU:HD22	1.97	0.46
2:E:1129:PHE:HZ	2:E:1183:HIS:HB2	1.81	0.46
2:E:1203:ASN:O	2:E:1207:TYR:CB	2.64	0.46
2:E:1249:ASP:O	2:E:1252:ARG:HD3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1383:TYR:HA	2:E:1501:TRP:HA	1.98	0.46
2:E:1486:ARG:HB2	2:E:1510:GLU:HB2	1.98	0.46
2:E:1623:SER:HA	2:E:1627:ARG:HH11	1.81	0.46
3:F:21:ILE:HB	3:F:40:TYR:CE2	2.51	0.46
1:A:543:GLU:OE1	1:A:543:GLU:N	2.48	0.46
2:B:81:ILE:HD11	2:B:138:LYS:HE2	1.98	0.46
2:B:871:GLN:HB2	2:B:918:VAL:O	2.16	0.46
2:B:1139:SER:OG	2:B:1143:ASN:HA	2.16	0.46
2:B:1390:ARG:HD3	3:C:44:VAL:HG13	1.96	0.46
2:B:1486:ARG:HB2	2:B:1510:GLU:HB2	1.98	0.46
2:B:1563:PHE:O	2:B:1567:GLU:HG2	2.16	0.46
3:C:122:ASP:O	3:C:126:ILE:HG12	2.16	0.46
1:D:544:ILE:HD11	1:D:689:LEU:HB2	1.98	0.46
2:E:222:TYR:CD1	2:E:289:LEU:HD21	2.50	0.46
2:E:932:LEU:CA	2:E:935:ARG:HE	2.29	0.46
2:E:1125:ILE:HA	2:E:1128:PHE:CD2	2.51	0.46
2:B:95:LEU:HD21	2:B:124:LEU:CD1	2.45	0.46
2:B:98:TRP:CE3	2:B:101:ILE:HG21	2.51	0.46
2:B:245:LEU:HB2	2:B:254:ILE:HB	1.98	0.46
2:B:792:ARG:O	2:B:796:LEU:HG	2.15	0.46
2:B:856:LYS:NZ	2:B:885:GLN:HB2	2.31	0.46
2:B:929:MET:HG3	2:B:964:MET:HE1	1.98	0.46
2:B:932:LEU:CA	2:B:935:ARG:HE	2.29	0.46
2:B:990:PHE:HB3	2:B:1045:ASN:OD1	2.16	0.46
2:B:1111:GLU:HA	2:B:1114:LEU:HD12	1.98	0.46
2:B:1283:LEU:HD11	2:B:1291:TYR:HB2	1.97	0.46
2:B:1416:GLU:O	2:B:1419:LYS:HB2	2.15	0.46
2:B:1467:PRO:HA	2:B:1484:ILE:HD13	1.98	0.46
2:B:1491:THR:HG21	2:B:1495:PHE:CE1	2.51	0.46
2:E:245:LEU:HB2	2:E:254:ILE:HB	1.98	0.46
2:E:530:THR:HA	2:E:549:VAL:HG22	1.96	0.46
2:E:744:ALA:HB1	2:E:812:ILE:HD13	1.98	0.46
2:E:1044:ASN:HA	2:E:1101:PHE:HZ	1.80	0.46
2:E:1066:GLN:HA	2:E:1069:ARG:NH2	2.31	0.46
2:E:1404:ASN:HB3	2:E:1423:LYS:HD2	1.98	0.46
2:E:1570:PHE:HA	2:E:1575:TYR:CD2	2.50	0.46
2:E:1601:THR:HG22	2:E:1605:ARG:CZ	2.46	0.46
3:F:80:ILE:CD1	3:F:97:TRP:HB3	2.46	0.46
2:B:7:THR:HG22	2:B:9:ARG:H	1.80	0.46
2:B:677:PHE:HD1	2:B:680:MET:HE2	1.81	0.46
2:B:823:ILE:HA	2:B:826:ASP:OD2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1203:ASN:O	2:B:1207:TYR:CB	2.64	0.46
2:B:1206:ASP:OD1	2:B:1207:TYR:N	2.49	0.46
3:C:80:ILE:CD1	3:C:97:TRP:HB3	2.46	0.46
2:E:48:TYR:HB3	2:E:53:LYS:HA	1.96	0.46
2:E:840:PHE:O	2:E:844:ILE:HG13	2.16	0.46
2:E:866:SER:C	2:E:868:LEU:H	2.19	0.46
2:E:933:LEU:H	2:E:935:ARG:NH2	2.14	0.46
2:E:1139:SER:OG	2:E:1143:ASN:HA	2.16	0.46
2:E:1379:LYS:NZ	2:E:1504:VAL:O	2.36	0.46
2:E:1457:ASN:O	2:E:1459:VAL:HG13	2.16	0.46
2:E:1466:ARG:O	2:E:1484:ILE:HA	2.16	0.46
3:F:53:LEU:HD22	3:F:173:ILE:HD11	1.97	0.46
2:B:526:HIS:CE1	2:B:586:LEU:HD21	2.50	0.46
2:B:578:LYS:HD3	2:B:584:PHE:CZ	2.51	0.46
2:B:802:MET:HE2	2:B:847:ILE:HD13	1.97	0.46
2:B:1062:GLU:OE2	2:B:1080:ARG:NH1	2.49	0.46
2:B:1370:GLN:OE1	2:B:1377:ARG:NH1	2.48	0.46
2:B:1566:TYR:HB3	2:B:1571:PHE:CE1	2.51	0.46
2:B:1606:ILE:HG13	2:B:1607:HIS:N	2.31	0.46
2:B:1623:SER:HA	2:B:1627:ARG:HH11	1.80	0.46
3:C:60:GLY:HA2	3:C:97:TRP:CZ2	2.51	0.46
2:E:554:LEU:HA	2:E:562:LEU:HB2	1.97	0.46
2:E:1002:TYR:OH	2:E:1013:GLN:HB2	2.16	0.46
2:E:1136:PHE:HD1	2:E:1186:LEU:HD23	1.80	0.46
2:E:1301:TYR:O	2:E:1305:ILE:HG12	2.15	0.46
2:E:1467:PRO:HA	2:E:1484:ILE:HD13	1.98	0.46
2:B:456:ASP:HB3	2:B:573:LYS:NZ	2.32	0.45
2:B:800:MET:CE	2:B:804:ARG:HH21	2.28	0.45
2:B:802:MET:HG2	2:B:843:PHE:CE1	2.51	0.45
2:B:1273:TRP:CD2	2:B:1297:LYS:HD3	2.50	0.45
2:B:1432:LYS:HD3	2:B:1433:PRO:HD2	1.98	0.45
2:B:1534:GLN:HB3	2:B:1538:TRP:HZ3	1.80	0.45
2:B:1601:THR:C	2:B:1605:ARG:HE	2.15	0.45
3:C:163:ARG:C	3:C:165:LEU:H	2.19	0.45
2:E:166:ARG:HB3	2:E:171:ASN:HA	1.97	0.45
2:E:446:ILE:HG12	2:E:626:ILE:HG12	1.98	0.45
2:E:531:PHE:CE2	2:E:571:VAL:HG22	2.50	0.45
2:E:1209:THR:O	2:E:1213:GLN:HB2	2.15	0.45
2:E:1357:ARG:NH1	2:E:1456:ALA:HB3	2.28	0.45
2:E:1566:TYR:HB3	2:E:1571:PHE:CE1	2.51	0.45
3:F:9:VAL:HG23	3:F:80:ILE:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:545:LEU:HB2	1:A:686:LEU:HD11	1.98	0.45
2:B:19:TYR:HE2	2:B:26:GLU:HB3	1.82	0.45
2:B:127:TRP:HD1	2:B:130:GLN:NE2	2.14	0.45
2:B:554:LEU:HA	2:B:562:LEU:HB2	1.97	0.45
2:B:792:ARG:NE	2:B:835:GLU:OE1	2.50	0.45
2:B:795:PHE:HZ	2:B:836:LEU:HD12	1.79	0.45
2:B:844:ILE:O	2:B:847:ILE:HB	2.16	0.45
2:B:899:HIS:HD2	2:B:943:MET:HG2	1.81	0.45
2:B:907:SER:OG	2:B:908:ASN:N	2.49	0.45
2:B:987:MET:O	2:B:991:ILE:HG12	2.15	0.45
2:B:1066:GLN:HA	2:B:1069:ARG:NH2	2.31	0.45
2:B:1337:GLY:HA2	2:B:1340:ASN:HD21	1.80	0.45
2:B:1382:ILE:HD11	2:B:1489:TYR:HB3	1.99	0.45
2:E:127:TRP:HD1	2:E:130:GLN:NE2	2.14	0.45
1:A:711:PRO:HD2	2:B:17:TYR:CE1	2.51	0.45
2:B:464:LYS:HE2	2:B:464:LYS:HA	1.99	0.45
2:B:1007:MET:HE3	2:B:1007:MET:H	1.81	0.45
2:B:1516:GLU:HA	2:B:1519:ILE:HD12	1.98	0.45
2:E:143:GLU:HA	2:E:146:LYS:HE2	1.97	0.45
2:E:823:ILE:HA	2:E:826:ASP:OD2	2.16	0.45
2:E:856:LYS:HZ1	2:E:857:LEU:HD21	1.81	0.45
2:E:934:ARG:HD2	2:E:985:PHE:CD1	2.52	0.45
2:E:1157:GLN:O	2:E:1160:GLU:HB3	2.17	0.45
2:E:1181:ARG:C	2:E:1183:HIS:H	2.19	0.45
2:E:1334:ASP:OD2	2:E:1337:GLY:HA3	2.17	0.45
2:E:1435:MET:HE3	2:E:1455:ARG:HG2	1.99	0.45
2:E:1566:TYR:HD1	2:E:1566:TYR:HA	1.62	0.45
2:B:529:PHE:HE2	2:B:552:VAL:HG12	1.81	0.45
2:B:654:LEU:HD13	2:B:692:LEU:HB2	1.99	0.45
2:B:1209:THR:O	2:B:1213:GLN:HB2	2.15	0.45
2:B:1249:ASP:O	2:B:1252:ARG:HD3	2.16	0.45
3:C:93:VAL:O	3:C:98:TYR:HB3	2.16	0.45
1:D:591:LEU:HD22	1:D:604:LEU:HD23	1.97	0.45
2:E:19:TYR:HE2	2:E:26:GLU:HB3	1.82	0.45
2:E:331:ASP:HB3	2:E:336:LYS:HB2	1.97	0.45
2:E:419:HIS:CD2	2:E:420:LEU:HG	2.51	0.45
2:E:643:TRP:HD1	2:E:675:ALA:HB1	1.82	0.45
2:E:787:PHE:O	2:E:791:ILE:HG12	2.17	0.45
2:E:806:LEU:HD22	2:E:851:GLN:HB3	1.99	0.45
2:E:853:VAL:O	2:E:857:LEU:HG	2.17	0.45
2:E:1384:ARG:HE	2:E:1495:PHE:HB3	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1516:GLU:HA	2:E:1519:ILE:HD12	1.98	0.45
1:A:551:GLN:HE22	1:A:555:ARG:HD3	1.81	0.45
2:B:68:GLU:HB3	2:B:76:GLN:HE22	1.82	0.45
2:B:89:GLN:O	2:B:92:THR:OG1	2.31	0.45
2:B:179:SER:H	2:B:183:LEU:CD1	2.28	0.45
2:B:285:SER:HB2	2:B:435:GLU:CD	2.37	0.45
2:B:446:ILE:HG12	2:B:626:ILE:HG12	1.98	0.45
2:B:1078:ASP:OD1	2:B:1080:ARG:HB2	2.16	0.45
2:B:1155:LEU:O	2:B:1159:VAL:HG23	2.17	0.45
2:B:1229:ASN:O	2:B:1233:GLU:HG3	2.16	0.45
2:B:1404:ASN:HB3	2:B:1423:LYS:HD2	1.98	0.45
3:C:39:ASN:HB3	3:C:56:TRP:HA	1.98	0.45
3:C:53:LEU:HD22	3:C:173:ILE:HD11	1.97	0.45
1:D:545:LEU:HB2	1:D:686:LEU:HD11	1.98	0.45
1:D:662:TYR:HA	1:D:665:TRP:HE3	1.82	0.45
1:D:722:PHE:CE1	2:E:1:MET:HB3	2.42	0.45
2:E:98:TRP:CE3	2:E:101:ILE:HG21	2.51	0.45
2:E:526:HIS:HE1	2:E:585:TYR:OH	1.99	0.45
2:E:658:MET:SD	2:E:699:PHE:HD2	2.40	0.45
2:E:844:ILE:O	2:E:847:ILE:HB	2.16	0.45
2:E:990:PHE:HB3	2:E:1045:ASN:OD1	2.16	0.45
2:E:1479:PHE:HA	2:E:1482:MET:HG2	1.99	0.45
3:F:39:ASN:HA	3:F:57:ASP:N	2.30	0.45
1:A:617:VAL:O	1:A:642:PHE:HA	2.15	0.45
2:B:3:ARG:O	2:B:3:ARG:HD3	2.16	0.45
2:B:163:LEU:HD22	2:B:187:HIS:HE1	1.80	0.45
2:B:419:HIS:CD2	2:B:420:LEU:HG	2.51	0.45
2:B:823:ILE:O	2:B:827:VAL:HG23	2.16	0.45
2:B:1168:TYR:CZ	2:B:1172:LEU:HD11	2.52	0.45
2:B:1258:THR:HG22	2:B:1262:TYR:HE2	1.81	0.45
2:B:1411:THR:HB	3:C:28:PHE:CE1	2.52	0.45
2:B:1479:PHE:HA	2:B:1482:MET:HG2	1.99	0.45
2:B:1551:LEU:HB3	2:B:1622:LEU:HD21	1.99	0.45
2:B:1579:HIS:O	2:B:1583:GLN:NE2	2.36	0.45
1:D:711:PRO:HG2	2:E:16:ILE:CD1	2.46	0.45
2:E:5:ILE:N	2:E:40:MET:H	2.01	0.45
2:E:68:GLU:HB3	2:E:76:GLN:HE22	1.82	0.45
2:E:302:ARG:HH22	2:E:375:GLU:HG2	1.82	0.45
2:E:456:ASP:HB3	2:E:573:LYS:NZ	2.32	0.45
2:E:816:ALA:O	2:E:820:LEU:CB	2.63	0.45
2:E:969:TYR:CD2	2:E:1023:GLN:HG3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1206:ASP:OD1	2:E:1207:TYR:N	2.49	0.45
1:A:617:VAL:HG13	1:A:645:LEU:HD11	1.98	0.45
2:B:485:HIS:HA	2:B:492:GLY:HA2	1.98	0.45
2:B:681:MET:HE1	2:B:729:ALA:HA	1.99	0.45
2:B:1466:ARG:O	2:B:1484:ILE:HA	2.17	0.45
3:C:9:VAL:HG23	3:C:80:ILE:HA	1.98	0.45
2:E:229:LYS:HE3	2:E:343:GLN:HG2	1.99	0.45
2:E:470:MET:CG	2:E:496:TYR:HB3	2.46	0.45
2:E:640:LEU:HD23	2:E:672:THR:HG23	1.98	0.45
2:E:1114:LEU:HA	2:E:1168:TYR:CZ	2.52	0.45
2:E:1120:LEU:HD12	2:E:1121:ARG:N	2.32	0.45
2:E:1268:ALA:HA	2:E:1271:LEU:HD13	1.99	0.45
2:E:1361:GLU:HB3	2:E:1430:THR:HG23	1.99	0.45
3:F:7:VAL:HB	3:F:78:PHE:CD1	2.52	0.45
3:F:39:ASN:HB3	3:F:56:TRP:HA	1.98	0.45
1:A:588:TYR:HE2	1:A:608:LEU:HB2	1.82	0.45
2:B:197:LYS:O	2:B:200:GLU:N	2.45	0.45
2:B:969:TYR:CD2	2:B:1023:GLN:HG3	2.52	0.45
2:B:1002:TYR:OH	2:B:1013:GLN:HB2	2.16	0.45
2:B:1170:VAL:O	2:B:1174:LYS:HG3	2.17	0.45
2:B:1365:VAL:N	2:B:1381:PHE:O	2.42	0.45
2:B:1601:THR:HG22	2:B:1605:ARG:CZ	2.46	0.45
2:B:1633:VAL:C	2:B:1639:VAL:HG22	2.37	0.45
1:D:711:PRO:CG	2:E:16:ILE:HG21	2.47	0.45
2:E:285:SER:HB2	2:E:435:GLU:CD	2.37	0.45
2:E:821:PRO:O	2:E:824:ILE:HG12	2.17	0.45
2:E:1062:GLU:OE2	2:E:1080:ARG:NH1	2.49	0.45
2:E:1065:SER:OG	2:E:1068:LYS:HE3	2.17	0.45
2:E:1111:GLU:HA	2:E:1114:LEU:HD12	1.98	0.45
2:E:1168:TYR:CZ	2:E:1172:LEU:HD11	2.52	0.45
3:F:93:VAL:O	3:F:98:TYR:HB3	2.16	0.45
1:A:544:ILE:HD11	1:A:689:LEU:HB2	1.98	0.45
1:A:662:TYR:HA	1:A:665:TRP:HE3	1.82	0.45
2:B:101:ILE:O	2:B:105:LEU:HG	2.17	0.45
2:B:103:ARG:HG3	2:B:104:LYS:N	2.32	0.45
2:B:470:MET:CG	2:B:496:TYR:HB3	2.46	0.45
2:B:957:MET:O	2:B:960:LEU:HB3	2.17	0.45
2:B:1283:LEU:HB3	2:B:1288:TYR:HE1	1.82	0.45
1:D:551:GLN:HE22	1:D:555:ARG:HD3	1.82	0.45
1:D:624:HIS:HB3	1:D:653:ASN:HB3	1.98	0.45
2:E:150:ALA:HB1	2:E:197:LYS:HZ1	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:856:LYS:NZ	2:E:885:GLN:HB2	2.31	0.45
2:E:862:LYS:O	2:E:865:GLU:HB3	2.17	0.45
2:E:871:GLN:HB2	2:E:918:VAL:O	2.16	0.45
2:E:1170:VAL:O	2:E:1174:LYS:HG3	2.17	0.45
2:E:1256:ASN:ND2	2:E:1500:LYS:HE2	2.32	0.45
2:B:1632:LYS:HA	2:B:1632:LYS:HD2	1.80	0.45
2:E:3:ARG:O	2:E:3:ARG:HD3	2.16	0.45
2:E:81:ILE:HD11	2:E:138:LYS:HE2	1.98	0.45
2:E:87:LEU:HB2	2:E:145:LYS:HE2	1.99	0.45
2:E:187:HIS:CD2	2:E:1008:VAL:HB	2.52	0.45
2:E:485:HIS:HA	2:E:492:GLY:HA2	1.98	0.45
2:E:1012:THR:O	2:E:1016:VAL:HG22	2.16	0.45
2:E:1078:ASP:OD1	2:E:1080:ARG:HB2	2.16	0.45
2:E:1369:GLY:HA3	2:E:1424:GLN:HA	1.99	0.45
2:E:1551:LEU:HB3	2:E:1622:LEU:HD21	1.99	0.45
3:F:60:GLY:HA2	3:F:97:TRP:CZ2	2.51	0.45
2:B:73:ASP:OD2	2:B:85:LEU:HB3	2.17	0.44
2:B:302:ARG:HH22	2:B:375:GLU:HG2	1.82	0.44
2:B:469:THR:HG22	2:B:495:GLU:HB3	1.99	0.44
2:B:640:LEU:HD23	2:B:672:THR:HG23	1.98	0.44
2:B:866:SER:C	2:B:868:LEU:H	2.19	0.44
2:B:1065:SER:OG	2:B:1068:LYS:HE3	2.17	0.44
2:B:1361:GLU:HB3	2:B:1430:THR:HG23	1.99	0.44
3:C:7:VAL:HB	3:C:78:PHE:CD1	2.52	0.44
1:D:577:CYS:SG	1:D:588:TYR:HB3	2.57	0.44
2:E:98:TRP:HE3	2:E:101:ILE:HG21	1.82	0.44
2:E:103:ARG:HG3	2:E:104:LYS:N	2.32	0.44
2:E:188:GLU:HG3	2:E:192:LYS:HZ3	1.82	0.44
2:E:349:GLN:NE2	2:E:350:GLN:O	2.32	0.44
2:E:422:ASP:OD1	2:E:422:ASP:N	2.50	0.44
2:E:792:ARG:NE	2:E:835:GLU:OE1	2.50	0.44
2:E:800:MET:O	2:E:804:ARG:HG3	2.17	0.44
2:E:929:MET:HG3	2:E:964:MET:HE1	1.99	0.44
2:E:987:MET:HE1	2:E:1042:LEU:HD13	1.99	0.44
2:E:1229:ASN:O	2:E:1233:GLU:HG3	2.16	0.44
2:E:1417:ASP:OD1	2:E:1418:ILE:HG12	2.17	0.44
2:E:1606:ILE:HG13	2:E:1607:HIS:N	2.31	0.44
1:A:696:LEU:HD12	1:A:697:ARG:HE	1.83	0.44
2:B:288:ASP:OD1	2:B:291:ARG:NH2	2.47	0.44
2:B:744:ALA:HB1	2:B:812:ILE:HD13	1.98	0.44
2:B:821:PRO:O	2:B:824:ILE:HG12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:853:VAL:O	2:B:857:LEU:HG	2.17	0.44
2:B:862:LYS:O	2:B:865:GLU:HB3	2.17	0.44
2:B:922:ALA:HA	2:B:925:ILE:HD12	2.00	0.44
2:B:933:LEU:H	2:B:935:ARG:NH2	2.14	0.44
2:B:1042:LEU:HD12	2:B:1042:LEU:O	2.18	0.44
2:B:1114:LEU:HA	2:B:1168:TYR:CZ	2.52	0.44
2:B:1183:HIS:CG	2:B:1187:SER:HG	2.30	0.44
2:B:1597:MET:CE	2:B:1633:VAL:HG11	2.47	0.44
1:D:617:VAL:HG13	1:D:645:LEU:HD11	1.97	0.44
2:E:19:TYR:CD1	2:E:20:ASN:N	2.86	0.44
2:E:690:ASP:OD2	2:E:732:LYS:HB3	2.17	0.44
2:E:1199:SER:O	2:E:1202:GLU:HG2	2.18	0.44
2:E:1217:LYS:HD2	2:E:1220:ARG:HH22	1.82	0.44
2:E:1382:ILE:O	2:E:1502:PHE:N	2.42	0.44
2:E:1469:ARG:HB3	2:E:1473:LYS:HD2	1.98	0.44
1:A:616:VAL:HG23	1:A:643:SER:C	2.38	0.44
2:B:225:TYR:HD2	2:B:404:LYS:HB2	1.83	0.44
2:B:229:LYS:HE3	2:B:343:GLN:HG2	1.99	0.44
2:B:658:MET:SD	2:B:699:PHE:HD2	2.40	0.44
2:B:860:MET:SD	2:B:861:THR:N	2.91	0.44
2:B:1180:CYS:CB	2:B:1191:GLU:HG3	2.47	0.44
2:B:1369:GLY:HA3	2:B:1424:GLN:HA	1.99	0.44
2:B:1382:ILE:O	2:B:1502:PHE:N	2.42	0.44
2:B:1417:ASP:OD1	2:B:1418:ILE:HG12	2.17	0.44
2:B:1488:THR:O	2:B:1508:SER:N	2.39	0.44
3:C:11:ASP:OD1	3:C:11:ASP:N	2.49	0.44
2:E:930:GLU:HG2	2:E:972:TYR:CD1	2.53	0.44
2:E:1098:LYS:O	2:E:1102:ILE:N	2.50	0.44
2:E:1177:LEU:O	2:E:1181:ARG:HD2	2.18	0.44
2:E:1180:CYS:CB	2:E:1191:GLU:HG3	2.47	0.44
2:B:19:TYR:OH	2:B:44:TRP:HZ3	2.00	0.44
2:B:328:ASP:OD1	2:B:390:LYS:HE2	2.17	0.44
2:B:480:LEU:HD23	2:B:483:ALA:HB2	2.00	0.44
2:B:806:LEU:HD22	2:B:851:GLN:HB3	1.99	0.44
2:B:934:ARG:HD2	2:B:985:PHE:CD1	2.52	0.44
2:B:934:ARG:HH12	2:B:938:ARG:HB2	1.83	0.44
2:B:974:SER:HB2	2:B:1031:PHE:CE1	2.52	0.44
2:B:1002:TYR:CE1	2:B:1010:ASN:HA	2.52	0.44
2:B:1120:LEU:HD12	2:B:1121:ARG:N	2.32	0.44
2:B:1320:LEU:HA	2:B:1323:GLU:OE2	2.18	0.44
2:B:1334:ASP:OD2	2:B:1337:GLY:HA3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1398:LEU:HB3	2:B:1426:MET:SD	2.58	0.44
2:B:1441:TYR:HD2	2:B:1450:ILE:HG21	1.82	0.44
2:E:23:GLN:HG2	2:E:58:ILE:HB	2.00	0.44
2:E:104:LYS:HD3	2:E:107:VAL:HB	2.00	0.44
2:E:464:LYS:HE2	2:E:464:LYS:HA	1.99	0.44
2:E:468:VAL:HG21	2:E:620:PHE:CE1	2.53	0.44
2:E:889:GLN:NE2	2:E:898:ASP:OD2	2.50	0.44
2:E:994:LYS:HA	2:E:997:ILE:HG12	1.99	0.44
2:E:1393:ASP:O	2:E:1396:LEU:HB3	2.18	0.44
3:F:42:ALA:O	3:F:53:LEU:HG	2.17	0.44
2:B:816:ALA:O	2:B:820:LEU:CB	2.63	0.44
2:B:889:GLN:NE2	2:B:898:ASP:OD2	2.50	0.44
2:B:979:ARG:HA	2:B:982:ILE:HG22	2.00	0.44
2:B:1240:TYR:CE2	2:B:1244:LEU:HD11	2.53	0.44
2:E:19:TYR:CG	2:E:59:PHE:CE1	3.05	0.44
2:E:319:ARG:NH1	2:E:511:GLU:OE2	2.48	0.44
2:E:438:LEU:HB2	2:E:441:ASP:OD1	2.17	0.44
2:E:578:LYS:HD3	2:E:584:PHE:CZ	2.51	0.44
2:E:764:PHE:HD1	2:E:823:ILE:HB	1.83	0.44
2:E:802:MET:HE2	2:E:847:ILE:HD13	2.00	0.44
2:E:957:MET:O	2:E:960:LEU:HB3	2.17	0.44
2:E:1221:MET:SD	2:E:1250:LEU:HB3	2.58	0.44
2:E:1249:ASP:O	2:E:1252:ARG:NH1	2.51	0.44
2:E:1382:ILE:HD11	2:E:1489:TYR:HB3	1.99	0.44
2:E:1382:ILE:HD11	2:E:1504:VAL:HG23	1.99	0.44
2:E:1610:LYS:HD2	2:E:1610:LYS:HA	1.73	0.44
1:A:577:CYS:SG	1:A:588:TYR:HB3	2.57	0.44
2:B:166:ARG:CD	2:B:173:LEU:HB2	2.47	0.44
2:B:187:HIS:CD2	2:B:1008:VAL:HB	2.52	0.44
2:B:732:LYS:HA	2:B:732:LYS:HD3	1.84	0.44
2:B:819:TYR:O	2:B:822:SER:OG	2.23	0.44
2:B:868:LEU:O	2:B:918:VAL:HG13	2.18	0.44
2:B:958:ILE:HG21	2:B:1017:PHE:HE1	1.81	0.44
2:B:994:LYS:HA	2:B:997:ILE:HG12	2.00	0.44
2:B:1221:MET:SD	2:B:1250:LEU:HB3	2.58	0.44
2:B:1268:ALA:HB2	2:B:1300:LEU:HD13	1.99	0.44
2:B:1435:MET:HE3	2:B:1455:ARG:HG2	1.99	0.44
2:B:1560:MET:O	3:C:36:VAL:HG13	2.18	0.44
2:E:101:ILE:O	2:E:105:LEU:HG	2.17	0.44
2:E:974:SER:HB2	2:E:1031:PHE:CE1	2.52	0.44
2:E:1027:VAL:HG22	2:E:1032:PHE:HE1	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1320:LEU:HA	2:E:1323:GLU:OE2	2.17	0.44
2:E:1343:LYS:HE3	2:E:1343:LYS:HB3	1.85	0.44
2:E:1633:VAL:C	2:E:1639:VAL:HG22	2.37	0.44
1:A:551:GLN:HG3	2:B:106:TYR:CE2	2.53	0.44
2:B:166:ARG:HH21	2:B:169:ASN:ND2	2.14	0.44
2:B:1006:TRP:CE3	2:B:1009:MET:HG3	2.49	0.44
2:B:1383:TYR:HA	2:B:1501:TRP:HA	1.98	0.44
2:B:1495:PHE:HE1	2:B:1502:PHE:CD2	2.31	0.44
2:B:1567:GLU:O	2:B:1572:THR:N	2.47	0.44
3:C:42:ALA:O	3:C:53:LEU:HG	2.17	0.44
2:E:73:ASP:OD2	2:E:85:LEU:HB3	2.17	0.44
2:E:95:LEU:HA	2:E:98:TRP:HB2	2.00	0.44
2:E:145:LYS:O	2:E:148:VAL:HG12	2.17	0.44
2:E:166:ARG:HH21	2:E:169:ASN:ND2	2.14	0.44
2:E:247:ASP:O	2:E:251:SER:N	2.42	0.44
2:E:654:LEU:HD13	2:E:692:LEU:HB2	1.98	0.44
2:E:795:PHE:CZ	2:E:836:LEU:HD12	2.53	0.44
2:E:795:PHE:CE2	2:E:839:LEU:HD13	2.52	0.44
2:E:860:MET:SD	2:E:861:THR:N	2.90	0.44
2:E:940:VAL:HA	2:E:943:MET:HE2	2.00	0.44
2:E:1218:GLU:HB2	2:E:1501:TRP:CZ2	2.52	0.44
2:E:1417:ASP:OD1	2:E:1417:ASP:N	2.51	0.44
3:F:72:TYR:HB2	3:F:73:PRO:HD3	2.00	0.44
1:A:532:PRO:O	1:A:536:LEU:HD13	2.18	0.44
1:A:544:ILE:HG23	1:A:545:LEU:H	1.83	0.44
2:B:19:TYR:CD1	2:B:20:ASN:N	2.86	0.44
2:B:643:TRP:HD1	2:B:675:ALA:HB1	1.82	0.44
2:B:795:PHE:CE2	2:B:839:LEU:HD13	2.52	0.44
2:B:1393:ASP:O	2:B:1396:LEU:HB3	2.18	0.44
2:B:1469:ARG:HB3	2:B:1473:LYS:HD2	1.98	0.44
3:C:21:ILE:HD11	3:C:35:THR:HG23	2.00	0.44
3:C:72:TYR:HB2	3:C:73:PRO:HD3	2.00	0.44
3:C:85:VAL:O	3:C:129:LEU:HD21	2.18	0.44
1:D:585:VAL:HB	1:D:606:ASP:O	2.18	0.44
2:E:19:TYR:CZ	2:E:60:PRO:HD3	2.53	0.44
2:E:204:ILE:HG23	2:E:211:ARG:CZ	2.48	0.44
2:E:1361:GLU:OE2	2:E:1388:TYR:HA	2.18	0.44
2:E:1567:GLU:O	2:E:1572:THR:N	2.47	0.44
2:E:1597:MET:CE	2:E:1633:VAL:HG11	2.47	0.44
2:B:285:SER:OG	2:B:288:ASP:OD2	2.33	0.44
2:B:663:GLY:O	2:B:667:LYS:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:690:ASP:OD2	2:B:732:LYS:HB3	2.17	0.44
2:B:787:PHE:O	2:B:791:ILE:HG12	2.17	0.44
2:B:820:LEU:HB3	2:B:821:PRO:HD3	2.00	0.44
2:B:931:ARG:C	2:B:932:LEU:HD12	2.38	0.44
2:B:1217:LYS:HD2	2:B:1220:ARG:HH22	1.82	0.44
2:B:1224:THR:HA	2:B:1227:VAL:HG12	1.99	0.44
2:B:1483:TRP:HA	2:B:1512:ILE:O	2.18	0.44
1:D:616:VAL:HG23	1:D:643:SER:C	2.38	0.44
2:E:19:TYR:OH	2:E:44:TRP:HZ3	2.00	0.44
2:E:162:ASP:OD2	2:E:1071:LYS:NZ	2.51	0.44
2:E:302:ARG:HG3	2:E:320:ARG:HB2	2.00	0.44
2:E:471:SER:N	2:E:528:ARG:O	2.35	0.44
2:E:663:GLY:O	2:E:667:LYS:HG3	2.17	0.44
2:E:911:GLU:O	2:E:915:ARG:HG2	2.18	0.44
2:E:958:ILE:HB	2:E:1016:VAL:CG2	2.48	0.44
2:E:1002:TYR:CE1	2:E:1010:ASN:HA	2.52	0.44
2:E:1268:ALA:HB2	2:E:1300:LEU:HD13	1.99	0.44
2:E:1337:GLY:HA2	2:E:1340:ASN:ND2	2.33	0.44
2:B:572:TYR:OH	2:B:589:PRO:HD2	2.17	0.43
2:B:800:MET:O	2:B:804:ARG:HG3	2.17	0.43
2:B:820:LEU:O	2:B:824:ILE:HG23	2.18	0.43
2:B:930:GLU:HG2	2:B:972:TYR:CD1	2.53	0.43
2:B:987:MET:HE1	2:B:1042:LEU:HD13	1.99	0.43
2:B:1056:HIS:HD1	2:B:1057:GLU:CD	2.17	0.43
2:B:1256:ASN:ND2	2:B:1500:LYS:HE2	2.32	0.43
2:B:1368:TYR:HB2	2:B:1408:MET:HE1	1.99	0.43
2:E:572:TYR:OH	2:E:589:PRO:HD2	2.17	0.43
2:E:1062:GLU:O	2:E:1069:ARG:HD3	2.18	0.43
2:E:1063:THR:HA	2:E:1069:ARG:HD2	2.00	0.43
2:E:1398:LEU:HB3	2:E:1426:MET:SD	2.58	0.43
2:E:1483:TRP:HA	2:E:1512:ILE:O	2.18	0.43
1:A:585:VAL:HB	1:A:606:ASP:O	2.18	0.43
1:A:711:PRO:HD2	2:B:17:TYR:CD1	2.53	0.43
2:B:87:LEU:HA	2:B:90:GLU:HG3	2.00	0.43
2:B:98:TRP:HE3	2:B:101:ILE:HG21	1.82	0.43
2:B:438:LEU:HB2	2:B:441:ASP:OD1	2.17	0.43
2:B:556:ASN:N	2:B:560:THR:O	2.41	0.43
2:B:853:VAL:HG23	2:B:854:ARG:N	2.33	0.43
2:B:908:ASN:O	2:B:912:VAL:HG22	2.18	0.43
2:B:1218:GLU:HB2	2:B:1501:TRP:CZ2	2.52	0.43
2:B:1263:THR:HA	2:B:1266:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1545:HIS:O	2:B:1549:MET:HG2	2.18	0.43
1:D:532:PRO:O	1:D:536:LEU:HD13	2.18	0.43
1:D:588:TYR:HE2	1:D:608:LEU:HB2	1.82	0.43
2:E:87:LEU:HA	2:E:90:GLU:HG3	2.00	0.43
2:E:730:TYR:CE1	2:E:771:ARG:HD3	2.53	0.43
2:E:853:VAL:HG23	2:E:854:ARG:N	2.33	0.43
2:E:1056:HIS:HD1	2:E:1057:GLU:CD	2.17	0.43
2:E:1240:TYR:CE2	2:E:1244:LEU:HD11	2.53	0.43
3:F:39:ASN:CA	3:F:57:ASP:H	2.27	0.43
2:B:5:ILE:N	2:B:40:MET:H	2.01	0.43
2:B:145:LYS:O	2:B:148:VAL:HG12	2.17	0.43
2:B:204:ILE:HG23	2:B:211:ARG:CZ	2.48	0.43
2:B:305:HIS:CD2	2:B:314:HIS:HB2	2.53	0.43
2:B:305:HIS:HA	2:B:315:THR:O	2.18	0.43
2:B:499:VAL:HB	2:B:509:TRP:HD1	1.84	0.43
2:B:821:PRO:HA	2:B:824:ILE:HG12	2.01	0.43
2:B:1157:GLN:O	2:B:1160:GLU:HB3	2.17	0.43
2:B:1268:ALA:HA	2:B:1271:LEU:HD13	1.99	0.43
2:E:225:TYR:HD2	2:E:404:LYS:HB2	1.83	0.43
2:E:1022:ASN:O	2:E:1026:GLU:OE1	2.36	0.43
2:E:1324:LEU:HD23	2:E:1341:LEU:HD13	2.01	0.43
2:E:1365:VAL:N	2:E:1381:PHE:O	2.42	0.43
2:E:1583:GLN:O	2:E:1586:VAL:HG12	2.18	0.43
1:A:579:LEU:HD12	1:A:580:SER:H	1.84	0.43
2:B:438:LEU:N	2:B:441:ASP:OD2	2.51	0.43
2:B:500:VAL:HG11	2:B:534:ARG:HB2	2.00	0.43
2:B:714:PRO:O	2:B:718:THR:OG1	2.26	0.43
2:B:730:TYR:CE1	2:B:771:ARG:HD3	2.53	0.43
2:B:1063:THR:HA	2:B:1069:ARG:HD2	2.00	0.43
2:B:1249:ASP:O	2:B:1252:ARG:NH1	2.51	0.43
2:B:1382:ILE:HD11	2:B:1504:VAL:HG23	2.00	0.43
2:B:1457:ASN:O	2:B:1459:VAL:HG13	2.16	0.43
1:D:544:ILE:HG23	1:D:545:LEU:H	1.83	0.43
2:E:302:ARG:HD3	2:E:322:PHE:CD1	2.47	0.43
2:E:305:HIS:HA	2:E:315:THR:O	2.18	0.43
2:E:340:GLU:HG2	2:E:420:LEU:HD11	2.00	0.43
2:E:795:PHE:HE1	2:E:840:PHE:CD1	2.36	0.43
2:E:821:PRO:HA	2:E:824:ILE:HG12	2.00	0.43
2:E:857:LEU:CB	2:E:905:LEU:HD21	2.47	0.43
2:E:908:ASN:O	2:E:912:VAL:HG22	2.18	0.43
2:E:922:ALA:HA	2:E:925:ILE:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:926:GLN:HG2	2:E:971:HIS:ND1	2.34	0.43
2:E:979:ARG:HA	2:E:982:ILE:HG22	2.00	0.43
2:E:1258:THR:HG22	2:E:1262:TYR:HE2	1.80	0.43
2:E:1500:LYS:HB2	2:E:1501:TRP:CE3	2.53	0.43
2:E:1522:MET:HE3	2:E:1589:LEU:HB3	2.01	0.43
3:F:45:MET:HA	3:F:50:PRO:HA	2.00	0.43
2:B:19:TYR:CZ	2:B:60:PRO:HD3	2.53	0.43
2:B:23:GLN:HG2	2:B:58:ILE:HB	2.00	0.43
2:B:87:LEU:HB2	2:B:145:LYS:HE2	1.99	0.43
2:B:95:LEU:HA	2:B:98:TRP:HB2	2.00	0.43
2:B:182:ALA:HA	2:B:185:LYS:HZ3	1.83	0.43
2:B:643:TRP:HE1	2:B:675:ALA:HA	1.83	0.43
2:B:895:ASN:O	2:B:898:ASP:N	2.51	0.43
2:B:911:GLU:O	2:B:915:ARG:HG2	2.18	0.43
2:B:1062:GLU:O	2:B:1069:ARG:HD3	2.18	0.43
2:B:1596:GLN:O	2:B:1599:LEU:HB3	2.18	0.43
2:E:156:ASN:HD22	2:E:161:LEU:HB2	1.84	0.43
2:E:469:THR:HG22	2:E:495:GLU:HB3	1.99	0.43
2:E:499:VAL:HB	2:E:509:TRP:HD1	1.84	0.43
2:E:528:ARG:HG3	2:E:551:PHE:HB3	2.01	0.43
2:E:831:PHE:CD2	2:E:836:LEU:HB2	2.54	0.43
2:E:1042:LEU:HD12	2:E:1042:LEU:O	2.18	0.43
2:B:8:LYS:HA	2:B:10:GLN:HE22	1.84	0.43
2:B:1290:VAL:HG13	2:B:1291:TYR:N	2.34	0.43
2:B:1417:ASP:CG	2:B:1418:ILE:HG12	2.39	0.43
2:E:248:PRO:HB3	2:E:387:ILE:CG2	2.49	0.43
2:E:328:ASP:OD1	2:E:390:LYS:HE2	2.17	0.43
2:E:673:LEU:HD13	2:E:719:TYR:CD2	2.53	0.43
2:E:735:LYS:HG2	2:E:739:PHE:CE2	2.54	0.43
2:E:836:LEU:HG	2:E:840:PHE:CE2	2.53	0.43
2:E:889:GLN:CA	2:E:895:ASN:HD21	2.31	0.43
2:E:976:PHE:HB2	2:E:982:ILE:HD12	2.01	0.43
2:E:1048:HIS:HE1	2:E:1105:MET:HA	1.84	0.43
2:E:1227:VAL:HG22	2:E:1231:TYR:CE2	2.54	0.43
2:E:1290:VAL:HG13	2:E:1291:TYR:N	2.34	0.43
2:E:1545:HIS:O	2:E:1549:MET:HG2	2.18	0.43
2:E:1556:ASP:O	2:E:1558:ALA:N	2.51	0.43
3:F:21:ILE:HD11	3:F:35:THR:HG23	2.00	0.43
3:F:85:VAL:O	3:F:129:LEU:HD21	2.18	0.43
3:F:154:TYR:OH	3:F:156:GLU:OE2	2.31	0.43
2:B:167:ASP:OD1	2:B:168:ASP:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:214:SER:O	2:B:217:SER:OG	2.37	0.43
2:B:302:ARG:HG3	2:B:320:ARG:HB2	2.00	0.43
2:B:958:ILE:HB	2:B:1016:VAL:CG2	2.48	0.43
2:B:995:ASP:OD1	2:B:999:LYS:HE3	2.18	0.43
2:B:1061:LEU:HA	2:B:1064:PHE:CZ	2.53	0.43
2:B:1243:TYR:HD2	2:B:1246:LYS:HG3	1.83	0.43
2:B:1337:GLY:HA2	2:B:1340:ASN:ND2	2.33	0.43
2:B:1500:LYS:HB2	2:B:1501:TRP:CE3	2.53	0.43
1:D:575:TRP:CZ3	1:D:588:TYR:HB2	2.54	0.43
1:D:693:GLU:OE1	1:D:696:LEU:HD11	2.19	0.43
2:E:53:LYS:HG3	2:E:53:LYS:O	2.19	0.43
2:E:123:SER:O	2:E:126:GLU:HG3	2.19	0.43
2:E:1061:LEU:HA	2:E:1064:PHE:CZ	2.53	0.43
2:E:1206:ASP:O	2:E:1210:ILE:HG12	2.19	0.43
2:E:1313:MET:SD	2:E:1453:TYR:OH	2.71	0.43
1:A:579:LEU:HA	1:A:586:LEU:HD13	2.01	0.43
2:B:528:ARG:HG3	2:B:551:PHE:HB3	2.00	0.43
2:B:764:PHE:HD1	2:B:823:ILE:HB	1.83	0.43
2:B:976:PHE:HB2	2:B:982:ILE:HD12	2.00	0.43
2:B:1059:LEU:HD21	2:B:1117:GLU:OE2	2.19	0.43
2:B:1177:LEU:O	2:B:1181:ARG:HD2	2.18	0.43
2:B:1239:ILE:HG23	2:B:1242:ARG:HH21	1.83	0.43
2:B:1275:ASP:OD2	2:B:1275:ASP:N	2.45	0.43
1:D:615:ALA:H	1:D:645:LEU:HB2	1.84	0.43
2:E:88:VAL:HB	2:E:128:ARG:HH22	1.84	0.43
2:E:91:LEU:HD12	2:E:91:LEU:HA	1.81	0.43
2:E:804:ARG:HD2	2:E:808:GLU:OE2	2.19	0.43
2:E:820:LEU:HB3	2:E:821:PRO:HD3	2.00	0.43
2:E:934:ARG:HH12	2:E:938:ARG:HB2	1.83	0.43
2:E:1155:LEU:O	2:E:1159:VAL:HG23	2.17	0.43
2:E:1283:LEU:HB3	2:E:1288:TYR:HE1	1.82	0.43
2:E:1495:PHE:HE1	2:E:1502:PHE:CD2	2.31	0.43
2:E:1617:PRO:HB2	2:E:1621:ARG:HH22	1.84	0.43
1:A:564:LYS:NZ	1:A:590:ASP:OD1	2.40	0.43
1:A:652:LEU:HD13	1:A:654:PHE:CZ	2.54	0.43
2:B:118:GLN:HB3	2:B:122:TYR:OH	2.19	0.43
2:B:380:THR:HG21	2:B:510:TYR:CD2	2.54	0.43
2:B:673:LEU:HD13	2:B:719:TYR:CD2	2.53	0.43
2:B:718:THR:HG23	2:B:722:LYS:NZ	2.34	0.43
2:B:795:PHE:HE1	2:B:840:PHE:CD1	2.36	0.43
2:B:1111:GLU:O	2:B:1114:LEU:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1199:SER:O	2:B:1202:GLU:HG2	2.18	0.43
1:D:543:GLU:OE1	1:D:543:GLU:N	2.49	0.43
1:D:640:LEU:O	1:D:655:ILE:HA	2.19	0.43
2:E:305:HIS:CD2	2:E:314:HIS:HB2	2.53	0.43
2:E:500:VAL:HG11	2:E:534:ARG:HB2	2.00	0.43
2:E:710:GLN:HA	2:E:713:ASN:OD1	2.19	0.43
2:E:1224:THR:HA	2:E:1227:VAL:HG12	1.99	0.43
2:E:1309:ASP:O	2:E:1312:LYS:HE2	2.19	0.43
2:E:1406:GLU:OE1	2:E:1423:LYS:NZ	2.52	0.43
2:E:1417:ASP:CG	2:E:1418:ILE:HG12	2.39	0.43
1:A:615:ALA:H	1:A:645:LEU:HB2	1.84	0.43
1:A:640:LEU:O	1:A:655:ILE:HA	2.19	0.43
2:B:162:ASP:OD2	2:B:1071:LYS:NZ	2.50	0.43
2:B:468:VAL:HG21	2:B:620:PHE:CE1	2.53	0.43
2:B:470:MET:HA	2:B:529:PHE:HA	2.01	0.43
2:B:582:ALA:HA	2:B:585:TYR:CE2	2.54	0.43
2:B:773:LEU:HA	2:B:776:ARG:CZ	2.49	0.43
2:B:795:PHE:CZ	2:B:836:LEU:HD12	2.53	0.43
2:B:804:ARG:HD2	2:B:808:GLU:OE2	2.18	0.43
2:B:1115:THR:O	2:B:1121:ARG:NH2	2.52	0.43
2:B:1324:LEU:HD23	2:B:1341:LEU:HD13	2.01	0.43
2:B:1361:GLU:OE2	2:B:1388:TYR:HA	2.18	0.43
2:B:1406:GLU:OE1	2:B:1423:LYS:NZ	2.52	0.43
2:B:1556:ASP:O	2:B:1558:ALA:N	2.51	0.43
3:C:45:MET:HA	3:C:50:PRO:HA	2.00	0.43
1:D:704:ILE:HD11	2:E:65:HIS:CD2	2.54	0.43
2:E:166:ARG:CD	2:E:173:LEU:HB2	2.47	0.43
2:E:287:MET:HA	2:E:290:ILE:HG12	2.01	0.43
2:E:326:VAL:H	2:E:386:VAL:HG11	1.84	0.43
2:E:480:LEU:HD23	2:E:483:ALA:HB2	1.99	0.43
2:E:519:ILE:HG23	2:E:631:LEU:HG	2.01	0.43
2:E:636:ASP:HB2	2:E:660:VAL:HG22	2.01	0.43
2:E:868:LEU:HD12	2:E:868:LEU:HA	1.78	0.43
2:E:868:LEU:O	2:E:918:VAL:HG13	2.18	0.43
2:E:1223:CYS:HA	2:E:1226:ASN:ND2	2.34	0.43
2:E:1568:LYS:O	2:E:1572:THR:OG1	2.37	0.43
3:F:9:VAL:HB	3:F:97:TRP:CE3	2.54	0.43
2:B:435:GLU:HA	2:B:708:LYS:HZ2	1.81	0.42
2:B:463:PRO:HD2	2:B:503:GLN:HB3	2.01	0.42
2:B:1386:LYS:HG3	2:B:1387:GLU:H	1.84	0.42
2:B:1617:PRO:HB2	2:B:1621:ARG:HH22	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:633:GLN:HB3	1:D:637:VAL:HG21	2.01	0.42
1:D:652:LEU:HD13	1:D:654:PHE:CZ	2.54	0.42
2:E:468:VAL:HG22	2:E:531:PHE:CD1	2.54	0.42
2:E:473:HIS:HD2	2:E:528:ARG:HB3	1.84	0.42
2:E:773:LEU:HA	2:E:776:ARG:CZ	2.49	0.42
2:E:995:ASP:OD1	2:E:999:LYS:HE3	2.18	0.42
2:E:1248:ARG:HD2	2:E:1249:ASP:N	2.34	0.42
2:E:1318:ILE:O	2:E:1322:LYS:HG2	2.19	0.42
2:E:1367:TYR:CZ	2:E:1402:PHE:HE2	2.36	0.42
2:E:1596:GLN:O	2:E:1599:LEU:HB3	2.18	0.42
2:E:1631:GLU:O	2:E:1635:LYS:HG2	2.19	0.42
3:F:20:LEU:O	3:F:24:THR:HG23	2.19	0.42
3:F:82:PHE:HB3	3:F:93:VAL:HG21	2.01	0.42
2:B:11:LYS:NZ	2:B:36:HIS:HB2	2.34	0.42
2:B:53:LYS:HG3	2:B:53:LYS:O	2.19	0.42
2:B:153:ASP:HA	2:B:156:ASN:OD1	2.19	0.42
2:B:248:PRO:HB3	2:B:387:ILE:HG21	2.01	0.42
2:B:857:LEU:CB	2:B:905:LEU:HD21	2.47	0.42
2:B:889:GLN:CA	2:B:895:ASN:HD21	2.31	0.42
2:B:930:GLU:HG2	2:B:972:TYR:CG	2.54	0.42
2:B:1048:HIS:CE1	2:B:1108:PRO:HG2	2.54	0.42
2:B:1206:ASP:O	2:B:1210:ILE:HG12	2.19	0.42
2:B:1318:ILE:O	2:B:1322:LYS:HG2	2.19	0.42
2:B:1357:ARG:NE	2:B:1452:ASN:O	2.53	0.42
2:B:1367:TYR:CZ	2:B:1402:PHE:HE2	2.36	0.42
2:B:1372:PHE:N	2:B:1424:GLN:HG2	2.35	0.42
3:C:8:VAL:HG11	3:C:20:LEU:HD11	2.02	0.42
3:C:44:VAL:HG12	3:C:45:MET:O	2.18	0.42
1:D:696:LEU:HD12	1:D:697:ARG:HE	1.83	0.42
2:E:718:THR:HG23	2:E:722:LYS:NZ	2.34	0.42
2:E:931:ARG:C	2:E:932:LEU:HD12	2.38	0.42
2:E:1263:THR:HA	2:E:1266:LEU:HD12	2.00	0.42
2:E:1386:LYS:HG3	2:E:1387:GLU:H	1.84	0.42
1:A:693:GLU:OE1	1:A:696:LEU:HD11	2.19	0.42
1:A:714:PRO:HD3	2:B:62:THR:HG21	2.00	0.42
2:B:104:LYS:HD3	2:B:107:VAL:HB	2.00	0.42
2:B:156:ASN:HD22	2:B:161:LEU:HB2	1.84	0.42
2:B:166:ARG:HG2	2:B:173:LEU:HB2	2.01	0.42
2:B:166:ARG:NE	2:B:169:ASN:OD1	2.52	0.42
2:B:248:PRO:HB3	2:B:387:ILE:CG2	2.49	0.42
2:B:468:VAL:HG22	2:B:531:PHE:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:792:ARG:HG2	2:B:839:LEU:HD11	2.01	0.42
3:C:82:PHE:HB3	3:C:93:VAL:HG21	2.01	0.42
1:D:693:GLU:OE2	1:D:697:ARG:HD2	2.19	0.42
2:E:153:ASP:HA	2:E:156:ASN:OD1	2.19	0.42
2:E:306:MET:HE1	2:E:465:ASN:HB3	2.01	0.42
2:E:438:LEU:N	2:E:441:ASP:OD2	2.52	0.42
2:E:455:PHE:CD2	2:E:466:VAL:HG21	2.54	0.42
2:E:820:LEU:O	2:E:824:ILE:HG23	2.18	0.42
2:E:1243:TYR:HD2	2:E:1246:LYS:HG3	1.83	0.42
2:E:1625:CYS:O	2:E:1628:GLU:HB3	2.19	0.42
1:A:693:GLU:OE2	1:A:697:ARG:HD2	2.19	0.42
2:B:123:SER:O	2:B:126:GLU:HG3	2.19	0.42
2:B:156:ASN:HA	2:B:161:LEU:HD12	2.01	0.42
2:B:273:LYS:O	2:B:277:LEU:N	2.53	0.42
2:B:1227:VAL:HG22	2:B:1231:TYR:CE2	2.53	0.42
2:B:1367:TYR:CE2	2:B:1402:PHE:CE2	3.06	0.42
2:B:1583:GLN:O	2:B:1586:VAL:HG12	2.18	0.42
3:C:14:VAL:HG13	3:C:116:LYS:HZ3	1.83	0.42
3:C:20:LEU:O	3:C:24:THR:HG23	2.19	0.42
2:E:632:THR:HA	2:E:664:GLU:OE1	2.20	0.42
2:E:882:LEU:HD13	2:E:882:LEU:HA	1.87	0.42
2:E:895:ASN:O	2:E:898:ASP:N	2.51	0.42
2:E:1239:ILE:HG23	2:E:1242:ARG:HH21	1.83	0.42
3:F:11:ASP:OD1	3:F:11:ASP:N	2.49	0.42
2:B:25:VAL:HG12	2:B:55:LYS:HE3	2.01	0.42
2:B:326:VAL:H	2:B:386:VAL:HG11	1.84	0.42
2:B:656:LYS:HG3	2:B:659:GLU:OE2	2.20	0.42
2:B:735:LYS:HG2	2:B:739:PHE:CE2	2.54	0.42
2:B:769:GLN:HA	2:B:772:VAL:HG12	2.02	0.42
2:B:831:PHE:CD2	2:B:836:LEU:HB2	2.54	0.42
2:B:1022:ASN:O	2:B:1026:GLU:OE1	2.37	0.42
2:B:1308:PHE:O	2:B:1312:LYS:N	2.53	0.42
2:B:1363:PHE:HE1	2:B:1430:THR:HG1	1.67	0.42
2:B:1417:ASP:OD1	2:B:1417:ASP:N	2.51	0.42
2:B:1568:LYS:O	2:B:1572:THR:OG1	2.37	0.42
3:C:9:VAL:HB	3:C:97:TRP:CE3	2.54	0.42
1:D:657:PRO:HB2	1:D:661:GLU:OE2	2.20	0.42
2:E:25:VAL:HG12	2:E:55:LYS:HE3	2.01	0.42
2:E:158:MET:C	2:E:159:LEU:HD22	2.39	0.42
2:E:166:ARG:NE	2:E:169:ASN:OD1	2.52	0.42
2:E:197:LYS:O	2:E:200:GLU:N	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:278:GLN:O	2:E:426:ALA:N	2.49	0.42
2:E:582:ALA:HA	2:E:585:TYR:CE2	2.54	0.42
2:E:643:TRP:HE1	2:E:675:ALA:HA	1.83	0.42
2:E:1116:PRO:HA	2:E:1121:ARG:NH2	2.35	0.42
2:B:15:ALA:HA	2:B:59:PHE:CZ	2.54	0.42
2:B:632:THR:HA	2:B:664:GLU:OE1	2.20	0.42
2:B:1027:VAL:HG22	2:B:1032:PHE:HE1	1.82	0.42
2:B:1245:TYR:O	2:B:1248:ARG:HG3	2.20	0.42
2:B:1318:ILE:HD13	2:B:1349:TYR:CE2	2.55	0.42
3:C:17:THR:O	3:C:21:ILE:HG22	2.19	0.42
2:E:1:MET:HG3	2:E:4:TRP:HE1	1.84	0.42
2:E:118:GLN:HB3	2:E:122:TYR:OH	2.19	0.42
2:E:930:GLU:HG2	2:E:972:TYR:CG	2.53	0.42
2:E:1059:LEU:HD21	2:E:1117:GLU:OE2	2.19	0.42
2:E:1367:TYR:CE2	2:E:1402:PHE:CE2	3.06	0.42
3:F:44:VAL:HG12	3:F:45:MET:O	2.18	0.42
1:A:588:TYR:CE2	1:A:608:LEU:HB2	2.54	0.42
2:B:4:TRP:CE3	2:B:39:GLU:HB2	2.55	0.42
2:B:287:MET:HA	2:B:290:ILE:HG12	2.01	0.42
2:B:455:PHE:CD2	2:B:466:VAL:HG21	2.55	0.42
2:B:464:LYS:HD3	2:B:533:HIS:CD2	2.55	0.42
2:B:570:VAL:HG22	2:B:592:LYS:HD2	2.02	0.42
2:B:632:THR:HG21	2:B:637:LEU:HD23	2.02	0.42
2:B:926:GLN:HG2	2:B:971:HIS:ND1	2.34	0.42
2:B:1098:LYS:O	2:B:1102:ILE:N	2.50	0.42
2:B:1110:LEU:HA	2:B:1128:PHE:HZ	1.85	0.42
2:B:1243:TYR:HA	2:B:1246:LYS:CG	2.50	0.42
2:E:166:ARG:HG2	2:E:173:LEU:HB2	2.01	0.42
2:E:246:TYR:CE1	2:E:383:LEU:HD21	2.55	0.42
2:E:380:THR:HG21	2:E:510:TYR:CD2	2.54	0.42
2:E:545:ARG:HH11	2:E:576:ASN:HD21	1.66	0.42
2:E:1357:ARG:NE	2:E:1452:ASN:O	2.52	0.42
2:E:1401:GLN:HG3	2:E:1402:PHE:CD2	2.55	0.42
2:E:1598:PRO:O	2:E:1602:GLU:OE1	2.38	0.42
1:A:564:LYS:NZ	1:A:590:ASP:HA	2.35	0.42
2:B:158:MET:C	2:B:159:LEU:HD22	2.39	0.42
2:B:219:ILE:HG13	2:B:222:TYR:OH	2.20	0.42
2:B:340:GLU:HG2	2:B:420:LEU:HD11	2.00	0.42
2:B:636:ASP:HB2	2:B:660:VAL:HG22	2.01	0.42
2:B:879:LEU:HG	2:B:879:LEU:O	2.20	0.42
2:B:940:VAL:HA	2:B:943:MET:HE2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1059:LEU:HA	2:B:1059:LEU:HD23	1.77	0.42
2:B:1116:PRO:HA	2:B:1121:ARG:NH2	2.35	0.42
2:B:1155:LEU:HD21	2:B:1197:VAL:HG13	2.02	0.42
2:B:1248:ARG:HD2	2:B:1249:ASP:N	2.34	0.42
2:B:1309:ASP:O	2:B:1312:LYS:HE2	2.19	0.42
2:B:1313:MET:SD	2:B:1453:TYR:OH	2.71	0.42
2:B:1392:GLU:OE2	3:C:166:LYS:HE2	2.19	0.42
2:B:1409:THR:HA	3:C:28:PHE:CZ	2.52	0.42
3:C:39:ASN:CA	3:C:57:ASP:H	2.27	0.42
1:D:551:GLN:O	1:D:555:ARG:HG2	2.20	0.42
2:E:214:SER:O	2:E:217:SER:OG	2.37	0.42
2:E:570:VAL:HG22	2:E:592:LYS:HD2	2.02	0.42
2:E:769:GLN:HA	2:E:772:VAL:HG12	2.02	0.42
2:E:909:ILE:O	2:E:913:LEU:HD12	2.20	0.42
2:E:926:GLN:NE2	2:E:930:GLU:OE2	2.48	0.42
2:E:1242:ARG:O	2:E:1246:LYS:HG2	2.20	0.42
2:E:1256:ASN:O	2:E:1260:ALA:N	2.29	0.42
2:E:1338:LEU:O	2:E:1342:LEU:HD23	2.20	0.42
3:F:129:LEU:O	3:F:134:LEU:N	2.29	0.42
1:A:532:PRO:HG2	1:A:706:ILE:O	2.20	0.42
1:A:633:GLN:HB3	1:A:637:VAL:HG21	2.01	0.42
1:A:657:PRO:HB2	1:A:661:GLU:OE2	2.20	0.42
1:A:695:LYS:NZ	2:B:122:TYR:CE1	2.88	0.42
2:B:95:LEU:CA	2:B:98:TRP:HD1	2.31	0.42
2:B:1022:ASN:OD1	2:B:1086:ARG:NH1	2.53	0.42
2:B:1028:LEU:HA	2:B:1032:PHE:CD1	2.43	0.42
2:B:1090:MET:O	2:B:1094:LEU:HD23	2.20	0.42
2:B:1362:TYR:HE2	2:B:1459:VAL:HG21	1.85	0.42
2:B:1506:GLN:NE2	2:B:1508:SER:OG	2.48	0.42
1:D:564:LYS:HZ1	1:D:590:ASP:HA	1.84	0.42
1:D:701:LEU:HD21	2:E:15:ALA:C	2.40	0.42
2:E:15:ALA:HA	2:E:59:PHE:CZ	2.54	0.42
2:E:156:ASN:HA	2:E:161:LEU:HD12	2.01	0.42
2:E:464:LYS:HD3	2:E:533:HIS:CD2	2.55	0.42
2:E:839:LEU:HG	2:E:842:LYS:HZ1	1.83	0.42
2:E:1115:THR:O	2:E:1121:ARG:NH2	2.52	0.42
2:E:1372:PHE:N	2:E:1424:GLN:HG2	2.34	0.42
3:F:53:LEU:HD13	3:F:169:PHE:CZ	2.55	0.42
1:A:541:GLN:O	1:A:543:GLU:N	2.53	0.42
1:A:575:TRP:CZ3	1:A:588:TYR:HB2	2.54	0.42
1:A:585:VAL:HG12	1:A:607:LYS:NZ	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:246:TYR:CE1	2:B:383:LEU:HD21	2.54	0.42
2:B:344:HIS:N	2:B:401:VAL:O	2.53	0.42
2:B:519:ILE:HG23	2:B:631:LEU:HG	2.01	0.42
2:B:545:ARG:HH11	2:B:576:ASN:HD21	1.67	0.42
2:B:768:ILE:HG13	2:B:826:ASP:O	2.20	0.42
2:B:933:LEU:HA	2:B:936:ILE:HG22	2.02	0.42
2:B:1392:GLU:OE1	2:B:1392:GLU:N	2.51	0.42
2:B:1418:ILE:HD13	2:B:1421:SER:HB3	2.01	0.42
3:C:53:LEU:HD13	3:C:169:PHE:CZ	2.55	0.42
1:D:532:PRO:HG2	1:D:706:ILE:O	2.20	0.42
1:D:585:VAL:HG12	1:D:607:LYS:NZ	2.34	0.42
2:E:4:TRP:CE3	2:E:39:GLU:HB2	2.55	0.42
2:E:44:TRP:HE3	2:E:58:ILE:HG22	1.85	0.42
2:E:127:TRP:O	2:E:131:ILE:HG12	2.20	0.42
2:E:273:LYS:O	2:E:277:LEU:N	2.53	0.42
2:E:656:LYS:HG3	2:E:659:GLU:OE2	2.20	0.42
2:E:854:ARG:HH11	2:E:858:ASN:HD21	1.68	0.42
2:E:1048:HIS:CE1	2:E:1108:PRO:HG2	2.55	0.42
2:E:1111:GLU:O	2:E:1114:LEU:HB2	2.19	0.42
2:E:1129:PHE:CZ	2:E:1183:HIS:HB2	2.55	0.42
2:E:1183:HIS:CG	2:E:1184:LYS:N	2.87	0.42
2:E:1245:TYR:O	2:E:1248:ARG:HG3	2.20	0.42
2:E:1441:TYR:HD2	2:E:1450:ILE:HG21	1.82	0.42
2:E:1444:LYS:HD3	2:E:1446:VAL:HG12	2.02	0.42
3:F:17:THR:O	3:F:21:ILE:HG22	2.20	0.42
3:F:58:THR:HB	3:F:68:ARG:NH1	2.35	0.42
3:F:124:ASP:O	3:F:127:GLU:HG2	2.20	0.42
1:A:620:LYS:HE2	1:A:638:LEU:HD11	2.02	0.41
2:B:38:LEU:HD21	2:B:48:TYR:CD2	2.55	0.41
2:B:306:MET:HE1	2:B:465:ASN:HB3	2.01	0.41
2:B:473:HIS:HD2	2:B:528:ARG:HB3	1.84	0.41
2:B:778:TYR:O	2:B:780:GLN:N	2.53	0.41
2:B:1171:LEU:O	2:B:1175:LEU:HD23	2.20	0.41
2:B:1205:LEU:HD22	2:B:1208:ARG:NH2	2.35	0.41
2:B:1431:VAL:HG12	2:B:1464:TYR:HB2	2.02	0.41
1:D:588:TYR:CE2	1:D:608:LEU:HB2	2.54	0.41
2:E:38:LEU:HD21	2:E:48:TYR:CD2	2.55	0.41
2:E:105:LEU:HB3	2:E:114:PHE:HB2	2.02	0.41
2:E:1259:GLU:O	2:E:1263:THR:HG23	2.20	0.41
2:E:1308:PHE:O	2:E:1312:LYS:N	2.53	0.41
2:E:1360:PRO:HA	2:E:1387:GLU:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:666:THR:HG23	1:A:678:MET:SD	2.60	0.41
2:B:147:LYS:O	2:B:151:LYS:HD3	2.21	0.41
2:B:157:ARG:NH2	2:B:198:ILE:HG12	2.35	0.41
2:B:875:ARG:NH1	2:B:920:ALA:O	2.52	0.41
2:B:1091:TRP:CD1	2:B:1127:ILE:HG23	2.55	0.41
2:B:1155:LEU:HA	2:B:1158:GLU:OE2	2.20	0.41
2:B:1323:GLU:O	2:B:1327:THR:HG23	2.21	0.41
2:B:1367:TYR:C	2:B:1368:TYR:HD1	2.24	0.41
2:B:1380:ILE:HB	2:B:1504:VAL:HG12	2.03	0.41
2:B:1401:GLN:HG3	2:B:1402:PHE:CD2	2.55	0.41
1:D:579:LEU:HA	1:D:586:LEU:HD13	2.01	0.41
2:E:8:LYS:HA	2:E:10:GLN:HE22	1.84	0.41
2:E:441:ASP:O	2:E:629:THR:OG1	2.26	0.41
2:E:470:MET:HA	2:E:529:PHE:HA	2.01	0.41
2:E:768:ILE:HG13	2:E:826:ASP:O	2.20	0.41
2:E:792:ARG:HG2	2:E:839:LEU:HD11	2.01	0.41
2:E:818:LYS:O	2:E:821:PRO:HD2	2.20	0.41
2:E:993:PHE:O	2:E:997:ILE:HG12	2.20	0.41
2:E:1109:ILE:HG12	2:E:1128:PHE:CE1	2.56	0.41
2:E:1155:LEU:HD21	2:E:1197:VAL:HG13	2.01	0.41
2:E:1171:LEU:O	2:E:1175:LEU:HD23	2.20	0.41
2:E:1238:ASP:OD1	2:E:1239:ILE:HG12	2.20	0.41
2:E:1418:ILE:HD13	2:E:1421:SER:HB3	2.01	0.41
2:E:1463:ARG:NH2	2:E:1465:SER:HA	2.35	0.41
1:A:551:GLN:O	1:A:555:ARG:HG2	2.20	0.41
1:A:652:LEU:HD23	1:A:652:LEU:HA	1.74	0.41
1:A:658:ASP:OD1	1:A:661:GLU:HG2	2.21	0.41
2:B:80:VAL:HG23	2:B:81:ILE:HG22	2.03	0.41
2:B:874:CYS:O	2:B:878:LEU:HG	2.20	0.41
2:B:926:GLN:NE2	2:B:930:GLU:OE2	2.48	0.41
2:B:993:PHE:O	2:B:997:ILE:HG12	2.20	0.41
2:B:1322:LYS:HE3	2:B:1345:ARG:HD3	2.02	0.41
2:B:1598:PRO:O	2:B:1602:GLU:OE1	2.38	0.41
3:C:21:ILE:HA	3:C:24:THR:OG1	2.20	0.41
1:D:579:LEU:HD12	1:D:580:SER:H	1.84	0.41
2:E:435:GLU:HA	2:E:708:LYS:HZ2	1.83	0.41
2:E:768:ILE:HD11	2:E:827:VAL:HG22	2.02	0.41
2:E:853:VAL:HG23	2:E:854:ARG:H	1.85	0.41
2:E:1269:GLU:OE1	2:E:1270:LEU:HD22	2.21	0.41
2:E:1363:PHE:HE1	2:E:1430:THR:HG1	1.64	0.41
2:E:1506:GLN:NE2	2:E:1508:SER:OG	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:19:TYR:CG	2:B:59:PHE:CE1	3.05	0.41
2:B:44:TRP:HE3	2:B:58:ILE:HG22	1.85	0.41
2:B:228:PHE:CZ	2:B:231:PHE:HB2	2.55	0.41
2:B:818:LYS:O	2:B:821:PRO:HD2	2.20	0.41
2:B:959:ALA:HB1	2:B:963:GLN:NE2	2.35	0.41
2:B:1019:ARG:O	2:B:1023:GLN:HG2	2.21	0.41
2:B:1223:CYS:HA	2:B:1226:ASN:ND2	2.34	0.41
2:B:1238:ASP:OD1	2:B:1239:ILE:HG12	2.20	0.41
2:B:1290:VAL:HG13	2:B:1291:TYR:H	1.85	0.41
2:B:1318:ILE:HD13	2:B:1349:TYR:CZ	2.55	0.41
2:B:1333:PHE:CZ	2:E:1444:LYS:HD3	2.47	0.41
2:B:1338:LEU:O	2:B:1342:LEU:HD23	2.20	0.41
1:D:548:ILE:CG2	1:D:682:THR:HG23	2.50	0.41
1:D:564:LYS:NZ	1:D:590:ASP:HA	2.35	0.41
2:E:11:LYS:NZ	2:E:36:HIS:HB2	2.34	0.41
2:E:45:TYR:HB2	2:E:64:ILE:HG13	2.02	0.41
2:E:191:SER:O	2:E:194:ILE:HB	2.20	0.41
2:E:526:HIS:NE2	2:E:586:LEU:HD11	2.36	0.41
2:E:856:LYS:HZ3	2:E:885:GLN:HB2	1.85	0.41
2:E:874:CYS:O	2:E:878:LEU:HG	2.20	0.41
2:E:875:ARG:NH1	2:E:920:ALA:O	2.52	0.41
2:E:1228:LEU:HD23	2:E:1228:LEU:HA	1.90	0.41
2:E:1322:LYS:HE3	2:E:1345:ARG:HD3	2.02	0.41
2:E:1392:GLU:OE1	2:E:1392:GLU:N	2.51	0.41
3:F:8:VAL:HG11	3:F:20:LEU:HD11	2.02	0.41
1:A:646:TYR:CE1	1:A:652:LEU:HG	2.56	0.41
2:B:221:THR:HG23	2:B:283:ASP:HA	2.02	0.41
2:B:471:SER:N	2:B:528:ARG:O	2.35	0.41
2:B:710:GLN:HA	2:B:713:ASN:OD1	2.19	0.41
2:B:937:ASN:O	2:B:941:ILE:HG13	2.21	0.41
2:B:1369:GLY:CA	2:B:1418:ILE:HG22	2.51	0.41
2:B:1461:GLN:HA	2:B:1489:TYR:O	2.21	0.41
2:B:1625:CYS:O	2:B:1628:GLU:HB3	2.19	0.41
1:D:541:GLN:O	1:D:543:GLU:N	2.53	0.41
1:D:667:ASP:HB3	1:D:677:MET:SD	2.60	0.41
2:E:65:HIS:ND1	2:E:65:HIS:O	2.53	0.41
2:E:219:ILE:HG13	2:E:222:TYR:OH	2.20	0.41
2:E:463:PRO:HD2	2:E:503:GLN:HB3	2.02	0.41
2:E:910:LEU:HD22	2:E:963:GLN:OE1	2.20	0.41
2:E:959:ALA:HB1	2:E:963:GLN:NE2	2.35	0.41
2:E:1044:ASN:HA	2:E:1101:PHE:CZ	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1081:LYS:O	2:E:1085:PHE:HD1	2.04	0.41
2:E:1155:LEU:HA	2:E:1158:GLU:OE2	2.20	0.41
2:E:1531:ASN:O	2:E:1535:GLN:HG3	2.20	0.41
1:A:599:VAL:HA	1:A:600:PRO:HD3	1.86	0.41
1:A:614:LYS:H	1:A:614:LYS:HD2	1.85	0.41
1:A:640:LEU:HD13	1:A:656:ALA:O	2.21	0.41
2:B:570:VAL:HA	2:B:592:LYS:NZ	2.36	0.41
2:B:1048:HIS:HE1	2:B:1105:MET:HA	1.84	0.41
2:B:1063:THR:HA	2:B:1069:ARG:CD	2.51	0.41
2:B:1233:GLU:C	2:B:1234:LYS:HE2	2.41	0.41
2:B:1259:GLU:O	2:B:1263:THR:HG23	2.20	0.41
2:B:1436:SER:OG	2:B:1437:LEU:N	2.54	0.41
2:B:1449:GLN:OE1	2:B:1449:GLN:N	2.54	0.41
2:B:1463:ARG:NH2	2:B:1465:SER:HA	2.35	0.41
2:B:1489:TYR:HB3	2:B:1504:VAL:HG23	2.02	0.41
2:B:1522:MET:HE3	2:B:1589:LEU:HB3	2.02	0.41
2:E:764:PHE:HA	2:E:767:ILE:HB	2.03	0.41
2:E:933:LEU:HA	2:E:936:ILE:HG22	2.02	0.41
2:E:937:ASN:O	2:E:941:ILE:HG13	2.21	0.41
2:E:1034:ASP:OD1	2:E:1097:HIS:CD2	2.74	0.41
2:E:1090:MET:O	2:E:1094:LEU:HD23	2.20	0.41
2:E:1099:ILE:HD11	2:E:1134:CYS:O	2.21	0.41
2:E:1231:TYR:HB3	2:E:1240:TYR:HB2	2.03	0.41
2:E:1483:TRP:CE2	2:E:1513:SER:HA	2.55	0.41
2:E:1601:THR:HG1	2:E:1626:PHE:HZ	1.69	0.41
3:F:21:ILE:HA	3:F:24:THR:OG1	2.20	0.41
2:B:25:VAL:HB	2:B:56:LYS:O	2.20	0.41
2:B:836:LEU:HG	2:B:840:PHE:CE2	2.53	0.41
2:B:1129:PHE:CZ	2:B:1183:HIS:HB2	2.55	0.41
2:B:1154:LYS:O	2:B:1158:GLU:HG2	2.21	0.41
2:B:1279:VAL:HA	2:B:1280:PRO:HD3	1.93	0.41
2:B:1444:LYS:HD3	2:B:1446:VAL:HG12	2.02	0.41
2:B:1490:THR:N	2:B:1506:GLN:O	2.53	0.41
2:B:1631:GLU:O	2:B:1635:LYS:HG2	2.19	0.41
1:D:575:TRP:HE3	1:D:589:GLY:O	2.04	0.41
1:D:658:ASP:OD1	1:D:661:GLU:HG2	2.20	0.41
2:E:25:VAL:HB	2:E:56:LYS:O	2.20	0.41
2:E:38:LEU:H	2:E:47:GLY:HA3	1.86	0.41
2:E:166:ARG:HH12	2:E:168:ASP:H	1.67	0.41
2:E:1155:LEU:HA	2:E:1158:GLU:HG2	2.02	0.41
2:E:1205:LEU:HD22	2:E:1208:ARG:NH2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1323:GLU:O	2:E:1327:THR:HG23	2.21	0.41
2:E:1362:TYR:HE2	2:E:1459:VAL:HG21	1.85	0.41
2:E:1490:THR:N	2:E:1506:GLN:O	2.53	0.41
2:E:1575:TYR:CE1	2:E:1579:HIS:CE1	3.09	0.41
2:E:1612:THR:H	2:E:1615:LEU:HB2	1.86	0.41
1:A:693:GLU:O	1:A:696:LEU:HG	2.21	0.41
2:B:1:MET:HG3	2:B:4:TRP:HE1	1.84	0.41
2:B:45:TYR:HB2	2:B:64:ILE:HG13	2.02	0.41
2:B:65:HIS:ND1	2:B:65:HIS:O	2.53	0.41
2:B:191:SER:O	2:B:194:ILE:HB	2.21	0.41
2:B:737:LEU:HD12	2:B:737:LEU:HA	1.77	0.41
2:B:764:PHE:HA	2:B:767:ILE:HB	2.03	0.41
2:B:768:ILE:HD11	2:B:827:VAL:HG22	2.02	0.41
2:B:854:ARG:HH11	2:B:858:ASN:HD21	1.68	0.41
2:B:909:ILE:O	2:B:913:LEU:HD12	2.20	0.41
2:B:1109:ILE:HG12	2:B:1128:PHE:CE1	2.56	0.41
2:B:1175:LEU:O	2:B:1179:HIS:CD2	2.74	0.41
2:B:1180:CYS:HB2	2:B:1191:GLU:HG3	2.03	0.41
2:B:1408:MET:HB3	2:B:1410:SER:H	1.85	0.41
3:C:94:ARG:HH12	3:C:112:LEU:HD21	1.86	0.41
2:E:46:ARG:CB	2:E:58:ILE:HG13	2.46	0.41
2:E:89:GLN:O	2:E:92:THR:OG1	2.31	0.41
2:E:167:ASP:OD1	2:E:168:ASP:N	2.52	0.41
2:E:219:ILE:O	2:E:222:TYR:OH	2.21	0.41
2:E:332:ILE:HG12	2:E:337:VAL:HB	2.02	0.41
2:E:344:HIS:N	2:E:401:VAL:O	2.53	0.41
2:E:470:MET:HG2	2:E:496:TYR:HB3	2.03	0.41
2:E:473:HIS:HD1	2:E:478:LYS:C	2.24	0.41
2:E:972:TYR:HA	2:E:975:THR:HB	2.03	0.41
2:E:1091:TRP:CD1	2:E:1127:ILE:HG23	2.55	0.41
2:E:1109:ILE:O	2:E:1112:VAL:HG22	2.21	0.41
3:F:66:ARG:HD3	3:F:66:ARG:H	1.86	0.41
1:A:575:TRP:HE3	1:A:589:GLY:O	2.04	0.41
2:B:127:TRP:O	2:B:131:ILE:HG12	2.20	0.41
2:B:162:ASP:OD1	2:B:162:ASP:N	2.54	0.41
2:B:169:ASN:OD1	2:B:173:LEU:HD13	2.20	0.41
2:B:259:LEU:HD23	2:B:490:TYR:CG	2.56	0.41
2:B:406:LEU:HD12	2:B:413:VAL:HG13	2.03	0.41
2:B:436:ILE:HG23	2:B:711:HIS:NE2	2.36	0.41
2:B:483:ALA:O	2:B:515:VAL:HA	2.21	0.41
2:B:1018:LEU:O	2:B:1022:ASN:ND2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1034:ASP:OD1	2:B:1097:HIS:CD2	2.74	0.41
2:B:1081:LYS:O	2:B:1085:PHE:HD1	2.04	0.41
2:B:1201:LEU:HD23	2:B:1201:LEU:HA	1.92	0.41
2:B:1242:ARG:O	2:B:1246:LYS:HG2	2.20	0.41
2:B:1330:SER:O	2:B:1331:LYS:HD3	2.20	0.41
2:B:1483:TRP:CE2	2:B:1513:SER:HA	2.55	0.41
2:B:1532:CYS:HA	2:B:1535:GLN:HG3	2.03	0.41
3:C:28:PHE:CD2	3:C:29:PRO:HD2	2.56	0.41
3:C:58:THR:HB	3:C:68:ARG:NH1	2.35	0.41
3:C:82:PHE:HD1	3:C:112:LEU:HD11	1.86	0.41
3:C:120:ARG:NH2	3:C:139:TYR:H	2.19	0.41
3:C:124:ASP:O	3:C:127:GLU:HG2	2.20	0.41
1:D:580:SER:HB3	1:D:583:HIS:N	2.36	0.41
2:E:14:VAL:O	2:E:64:ILE:HA	2.21	0.41
2:E:189:VAL:HG13	2:E:193:ARG:CZ	2.50	0.41
2:E:221:THR:HG23	2:E:283:ASP:HA	2.02	0.41
2:E:228:PHE:CZ	2:E:231:PHE:HB2	2.55	0.41
2:E:234:ASN:O	2:E:322:PHE:HZ	2.04	0.41
2:E:248:PRO:HB3	2:E:387:ILE:HG21	2.01	0.41
2:E:259:LEU:HD23	2:E:490:TYR:CG	2.56	0.41
2:E:281:PHE:HE2	2:E:296:LEU:HD11	1.86	0.41
2:E:894:SER:O	2:E:897:PRO:HD2	2.21	0.41
2:E:928:ILE:CA	2:E:932:LEU:HD13	2.48	0.41
2:E:1002:TYR:HE1	2:E:1010:ASN:HA	1.85	0.41
2:E:1019:ARG:O	2:E:1023:GLN:HG2	2.21	0.41
2:E:1132:MET:HE1	2:E:1187:SER:HA	2.02	0.41
2:E:1318:ILE:HD13	2:E:1349:TYR:CE2	2.54	0.41
2:E:1318:ILE:HD13	2:E:1349:TYR:CZ	2.55	0.41
2:E:1330:SER:O	2:E:1331:LYS:HD3	2.21	0.41
2:E:1408:MET:HB3	2:E:1410:SER:H	1.85	0.41
2:E:1411:THR:HB	3:F:28:PHE:CE2	2.55	0.41
2:E:1461:GLN:HA	2:E:1489:TYR:O	2.21	0.41
2:E:1482:MET:C	2:E:1517:ASN:HD22	2.24	0.41
2:E:1566:TYR:CE1	2:E:1570:PHE:HE2	2.39	0.41
1:A:556:LEU:HD11	1:A:668:GLY:C	2.41	0.41
1:A:667:ASP:HB3	1:A:677:MET:SD	2.60	0.41
2:B:105:LEU:HB3	2:B:114:PHE:HB2	2.02	0.41
2:B:853:VAL:HG23	2:B:854:ARG:H	1.85	0.41
2:B:1531:ASN:O	2:B:1535:GLN:HG3	2.20	0.41
1:D:584:LYS:NZ	2:E:1405:ALA:HB2	2.34	0.41
1:D:646:TYR:CE1	1:D:652:LEU:HG	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:147:LYS:O	2:E:151:LYS:HD3	2.21	0.41
2:E:169:ASN:OD1	2:E:173:LEU:HD13	2.20	0.41
2:E:728:LEU:HD23	2:E:730:TYR:CE2	2.56	0.41
2:E:785:ASP:N	2:E:785:ASP:OD1	2.53	0.41
2:E:1072:ILE:HA	2:E:1076:TYR:HD2	1.86	0.41
2:E:1238:ASP:HA	2:E:1241:ILE:HD12	2.03	0.41
2:E:1361:GLU:OE1	2:E:1389:GLU:N	2.54	0.41
2:E:1380:ILE:HB	2:E:1504:VAL:HG12	2.03	0.41
2:E:1449:GLN:OE1	2:E:1449:GLN:N	2.54	0.41
1:A:580:SER:HB3	1:A:583:HIS:N	2.36	0.40
2:B:38:LEU:H	2:B:47:GLY:HA3	1.86	0.40
2:B:328:ASP:OD1	2:B:328:ASP:N	2.54	0.40
2:B:332:ILE:HG12	2:B:337:VAL:HB	2.02	0.40
2:B:730:TYR:CG	2:B:731:VAL:N	2.90	0.40
2:B:922:ALA:O	2:B:925:ILE:HB	2.21	0.40
2:B:1002:TYR:HE1	2:B:1010:ASN:HA	1.85	0.40
2:B:1109:ILE:O	2:B:1112:VAL:HG22	2.21	0.40
2:B:1168:TYR:HA	2:B:1171:LEU:HD12	2.03	0.40
2:B:1217:LYS:HB3	2:B:1221:MET:HE1	2.03	0.40
2:B:1231:TYR:HB3	2:B:1240:TYR:HB2	2.03	0.40
2:B:1283:LEU:HB3	2:B:1288:TYR:CE1	2.56	0.40
2:B:1369:GLY:HA2	2:B:1418:ILE:HG22	2.02	0.40
1:D:679:SER:HB2	1:D:682:THR:OG1	2.21	0.40
2:E:95:LEU:HD11	2:E:124:LEU:HD11	2.04	0.40
2:E:95:LEU:CA	2:E:98:TRP:HD1	2.31	0.40
2:E:157:ARG:NH2	2:E:198:ILE:HG12	2.36	0.40
2:E:406:LEU:HD12	2:E:413:VAL:HG13	2.03	0.40
2:E:964:MET:HG2	2:E:969:TYR:CZ	2.55	0.40
2:E:1110:LEU:HA	2:E:1128:PHE:HZ	1.85	0.40
2:E:1168:TYR:HA	2:E:1171:LEU:HD12	2.03	0.40
2:E:1374:SER:O	2:E:1377:ARG:HG2	2.21	0.40
2:E:1463:ARG:NH1	2:E:1465:SER:OG	2.54	0.40
2:E:1632:LYS:HD2	2:E:1632:LYS:HA	1.80	0.40
3:F:120:ARG:NH2	3:F:139:TYR:H	2.19	0.40
1:A:714:PRO:CG	2:B:60:PRO:HB3	2.51	0.40
2:B:14:VAL:O	2:B:64:ILE:HA	2.21	0.40
2:B:680:MET:O	2:B:684:SER:HB3	2.21	0.40
2:B:772:VAL:O	2:B:776:ARG:HG3	2.21	0.40
2:B:894:SER:O	2:B:897:PRO:HD2	2.21	0.40
2:B:932:LEU:N	2:B:935:ARG:HE	2.19	0.40
2:B:1579:HIS:O	2:B:1583:GLN:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:328:ASP:OD1	2:E:328:ASP:N	2.55	0.40
2:E:455:PHE:CE2	2:E:466:VAL:HG11	2.56	0.40
2:E:570:VAL:HA	2:E:592:LYS:NZ	2.36	0.40
2:E:632:THR:HG21	2:E:637:LEU:HD23	2.02	0.40
2:E:730:TYR:CG	2:E:731:VAL:N	2.90	0.40
2:E:772:VAL:O	2:E:776:ARG:HG3	2.21	0.40
2:E:922:ALA:O	2:E:925:ILE:HB	2.21	0.40
2:E:934:ARG:NH1	2:E:934:ARG:O	2.55	0.40
2:E:1175:LEU:O	2:E:1179:HIS:CD2	2.74	0.40
2:E:1233:GLU:C	2:E:1234:LYS:HE2	2.41	0.40
2:E:1283:LEU:HB3	2:E:1288:TYR:CE1	2.56	0.40
2:E:1290:VAL:HG13	2:E:1291:TYR:H	1.86	0.40
2:E:1369:GLY:CA	2:E:1418:ILE:HG22	2.51	0.40
2:E:1431:VAL:HG12	2:E:1464:TYR:HB2	2.02	0.40
2:E:1436:SER:OG	2:E:1437:LEU:N	2.54	0.40
3:F:86:SER:O	3:F:89:SER:OG	2.24	0.40
2:B:88:VAL:HB	2:B:128:ARG:HH22	1.84	0.40
2:B:222:TYR:HB3	2:B:405:LEU:HD11	2.04	0.40
2:B:455:PHE:CE2	2:B:466:VAL:HG11	2.56	0.40
2:B:470:MET:HG2	2:B:496:TYR:HB3	2.03	0.40
2:B:526:HIS:NE2	2:B:586:LEU:HD11	2.36	0.40
2:B:910:LEU:HD22	2:B:963:GLN:OE1	2.20	0.40
2:B:964:MET:HG2	2:B:969:TYR:CZ	2.55	0.40
2:B:969:TYR:HE2	2:B:1019:ARG:HH21	1.68	0.40
2:B:993:PHE:HB3	2:B:1049:LEU:HD11	2.03	0.40
2:B:1072:ILE:HA	2:B:1076:TYR:HD2	1.86	0.40
2:B:1080:ARG:HH21	2:B:1117:GLU:HG2	1.86	0.40
2:B:1155:LEU:HA	2:B:1158:GLU:HG2	2.02	0.40
2:B:1179:HIS:O	2:B:1182:LYS:HB2	2.22	0.40
2:B:1231:TYR:HB2	2:B:1240:TYR:HD1	1.86	0.40
2:B:1482:MET:C	2:B:1517:ASN:HD22	2.24	0.40
2:B:1575:TYR:CE1	2:B:1579:HIS:CE1	3.09	0.40
3:C:3:ALA:HA	3:C:52:ASN:HB2	2.03	0.40
1:D:539:LYS:NZ	1:D:540:ILE:HD11	2.37	0.40
1:D:580:SER:CB	1:D:585:VAL:H	2.34	0.40
1:D:666:THR:HG23	1:D:678:MET:SD	2.60	0.40
2:E:13:GLY:O	2:E:34:THR:HA	2.21	0.40
2:E:345:PHE:HB2	2:E:400:TRP:CZ3	2.56	0.40
2:E:408:GLY:HA3	2:E:412:GLN:HB2	2.04	0.40
2:E:802:MET:HE3	2:E:843:PHE:CE1	2.57	0.40
2:E:821:PRO:CG	2:E:863:ILE:HG13	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:874:CYS:O	2:E:877:VAL:HG12	2.22	0.40
2:E:899:HIS:HD2	2:E:943:MET:HG2	1.81	0.40
2:E:929:MET:HB2	2:E:964:MET:HE3	2.03	0.40
2:E:929:MET:HE1	2:E:972:TYR:HB3	2.03	0.40
2:E:1008:VAL:HG12	2:E:1009:MET:HE2	2.03	0.40
2:E:1011:MET:HA	2:E:1014:ASN:ND2	2.37	0.40
2:E:1022:ASN:OD1	2:E:1086:ARG:NH1	2.53	0.40
2:E:1059:LEU:HA	2:E:1059:LEU:HD23	1.77	0.40
2:E:1180:CYS:HB2	2:E:1191:GLU:HG3	2.03	0.40
2:E:1367:TYR:C	2:E:1368:TYR:HD1	2.24	0.40
3:F:3:ALA:HA	3:F:52:ASN:HB2	2.03	0.40
2:B:10:GLN:HB2	2:B:37:ILE:HD12	2.03	0.40
2:B:928:ILE:CA	2:B:932:LEU:HD13	2.48	0.40
2:B:950:ILE:O	2:B:954:VAL:HG23	2.21	0.40
2:B:997:ILE:HG13	2:B:998:GLY:N	2.36	0.40
2:B:1245:TYR:HA	2:B:1248:ARG:HG3	2.03	0.40
2:B:1360:PRO:HA	2:B:1387:GLU:HA	2.02	0.40
2:B:1612:THR:H	2:B:1615:LEU:HB2	1.86	0.40
3:C:43:ASN:OD1	3:C:50:PRO:HB2	2.21	0.40
2:E:186:ALA:O	2:E:189:VAL:HB	2.22	0.40
2:E:223:GLY:HA2	2:E:281:PHE:O	2.22	0.40
2:E:778:TYR:O	2:E:780:GLN:N	2.53	0.40
2:E:932:LEU:N	2:E:935:ARG:HE	2.19	0.40
2:E:950:ILE:O	2:E:954:VAL:HG23	2.21	0.40
2:E:997:ILE:HG13	2:E:998:GLY:N	2.36	0.40
2:E:1091:TRP:CZ2	2:E:1131:MET:HB3	2.56	0.40
2:E:1125:ILE:HG12	2:E:1172:LEU:HD23	2.04	0.40
2:E:1238:ASP:HB3	2:E:1281:HIS:HB3	2.04	0.40
2:E:1512:ILE:HG22	2:E:1517:ASN:HB2	2.03	0.40
3:F:43:ASN:OD1	3:F:50:PRO:HB2	2.21	0.40
3:F:82:PHE:HD1	3:F:112:LEU:HD11	1.86	0.40
2:B:103:ARG:NH1	2:B:104:LYS:HE3	2.30	0.40
2:B:345:PHE:HB2	2:B:400:TRP:CZ3	2.56	0.40
2:B:422:ASP:N	2:B:422:ASP:OD1	2.50	0.40
2:B:824:ILE:HD11	2:B:863:ILE:HA	2.04	0.40
2:B:1044:ASN:HA	2:B:1101:PHE:CZ	2.55	0.40
2:B:1238:ASP:HA	2:B:1241:ILE:HD12	2.03	0.40
1:D:530:SER:HB3	1:D:531:ARG:NH2	2.37	0.40
1:D:620:LYS:HE2	1:D:638:LEU:HD11	2.02	0.40
2:E:436:ILE:HG23	2:E:711:HIS:NE2	2.36	0.40
2:E:824:ILE:HD11	2:E:863:ILE:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:828:LYS:HE2	2:E:870:ARG:NH2	2.37	0.40
2:E:886:LEU:HD13	2:E:932:LEU:CD2	2.51	0.40
2:E:993:PHE:HB3	2:E:1049:LEU:HD11	2.03	0.40
2:E:1095:GLY:HA3	2:E:1096:PRO:HD3	1.95	0.40
3:F:28:PHE:CD2	3:F:29:PRO:HD2	2.56	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	196/733 (27%)	170 (87%)	26 (13%)	0	100	100
1	D	196/733 (27%)	170 (87%)	26 (13%)	0	100	100
2	B	1640/1648 (100%)	1476 (90%)	164 (10%)	0	100	100
2	E	1640/1648 (100%)	1476 (90%)	164 (10%)	0	100	100
3	C	175/184 (95%)	160 (91%)	15 (9%)	0	100	100
3	F	175/184 (95%)	160 (91%)	15 (9%)	0	100	100
All	All	4022/5130 (78%)	3612 (90%)	410 (10%)	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	183/664 (28%)	182 (100%)	1 (0%)	88	93
1	D	183/664 (28%)	182 (100%)	1 (0%)	88	93
2	B	1495/1497 (100%)	1485 (99%)	10 (1%)	84	90
2	E	1495/1497 (100%)	1484 (99%)	11 (1%)	84	90
3	C	153/157 (98%)	151 (99%)	2 (1%)	69	82
3	F	153/157 (98%)	151 (99%)	2 (1%)	69	82
All	All	3662/4636 (79%)	3635 (99%)	27 (1%)	84	90

All (27) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	715	LYS
2	B	128	ARG
2	B	227	ASN
2	B	415	LYS
2	B	478	LYS
2	B	856	LYS
2	B	935	ARG
2	B	1252	ARG
2	B	1463	ARG
2	B	1540	ARG
2	B	1605	ARG
3	C	66	ARG
3	C	123	LYS
1	D	715	LYS
2	E	128	ARG
2	E	227	ASN
2	E	415	LYS
2	E	478	LYS
2	E	769	GLN
2	E	856	LYS
2	E	935	ARG
2	E	1252	ARG
2	E	1463	ARG
2	E	1540	ARG
2	E	1605	ARG
3	F	66	ARG
3	F	123	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (47) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	596	GLN
2	B	30	GLN
2	B	156	ASN
2	B	187	HIS
2	B	227	ASN
2	B	419	HIS
2	B	526	HIS
2	B	649	ASN
2	B	653	ASN
2	B	670	GLN
2	B	723	HIS
2	B	769	GLN
2	B	858	ASN
2	B	889	GLN
2	B	895	ASN
2	B	908	ASN
2	B	1014	ASN
2	B	1041	GLN
2	B	1044	ASN
2	B	1048	HIS
2	B	1256	ASN
2	B	1424	GLN
2	B	1517	ASN
2	B	1579	HIS
3	C	43	ASN
1	D	596	GLN
2	E	30	GLN
2	E	156	ASN
2	E	187	HIS
2	E	227	ASN
2	E	419	HIS
2	E	526	HIS
2	E	649	ASN
2	E	653	ASN
2	E	670	GLN
2	E	723	HIS
2	E	858	ASN
2	E	889	GLN
2	E	895	ASN
2	E	1014	ASN
2	E	1041	GLN
2	E	1044	ASN
2	E	1048	HIS

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Mol	Chain	Res	Type
2	E	1256	ASN
2	E	1424	GLN
2	E	1517	ASN
2	E	1579	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 monosaccharides 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.

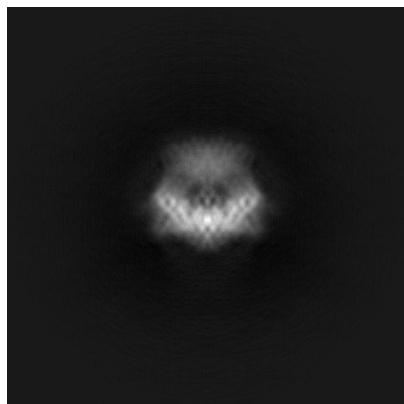
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-60150. These allow visual inspection of the internal detail of the map and identification of artifacts.

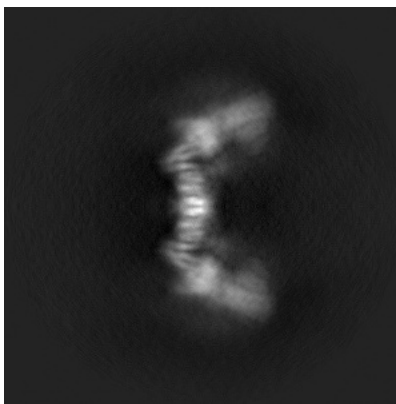
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

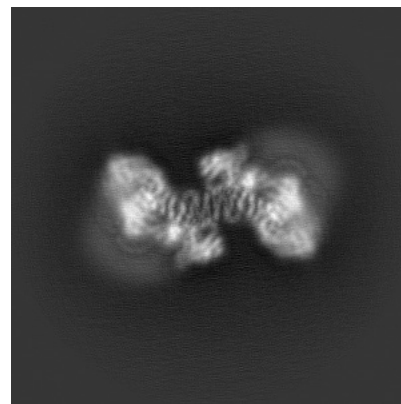
6.1.1 Primary map



X

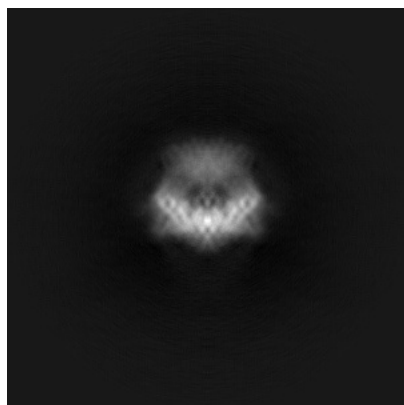


Y

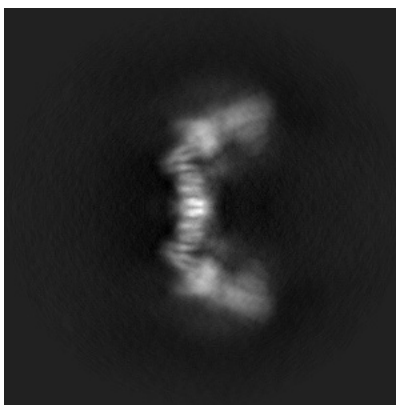


Z

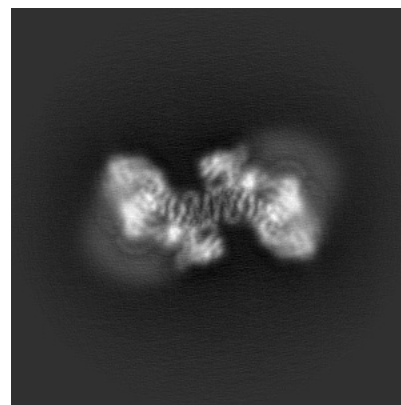
6.1.2 Raw map



X



Y

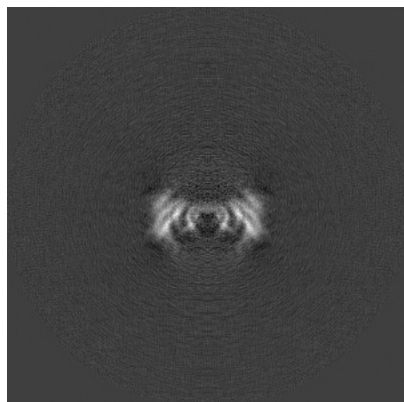


Z

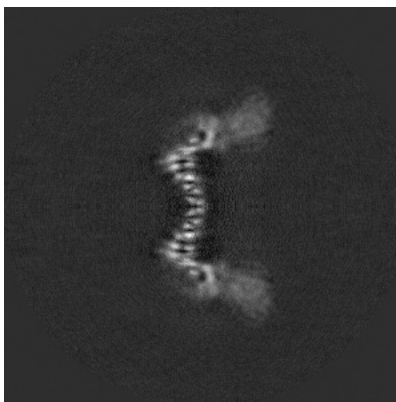
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

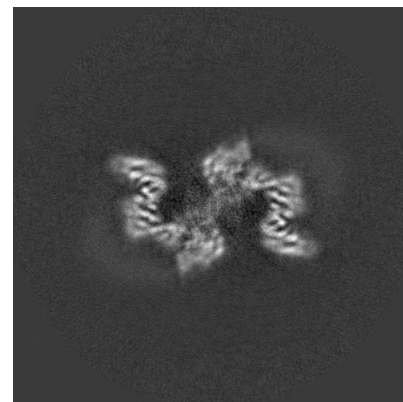
6.2.1 Primary map



X Index: 170

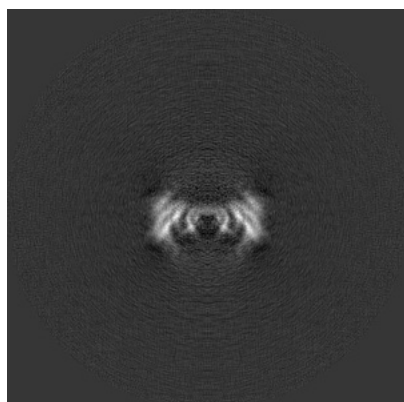


Y Index: 170

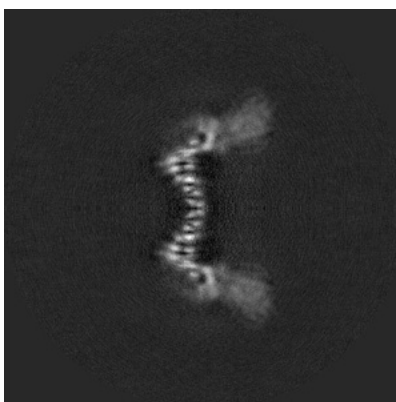


Z Index: 170

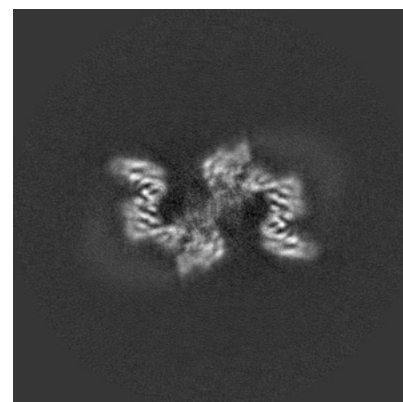
6.2.2 Raw map



X Index: 170



Y Index: 170

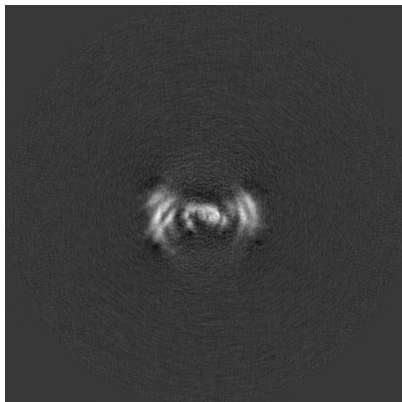


Z Index: 170

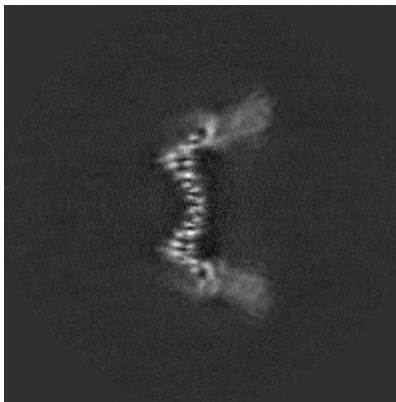
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

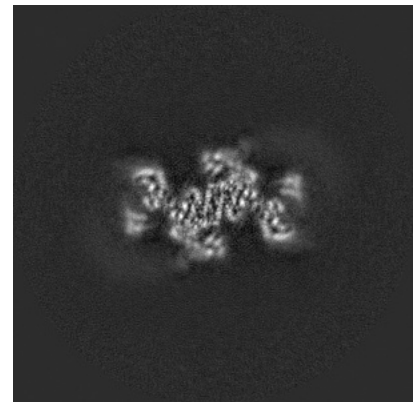
6.3.1 Primary map



X Index: 166

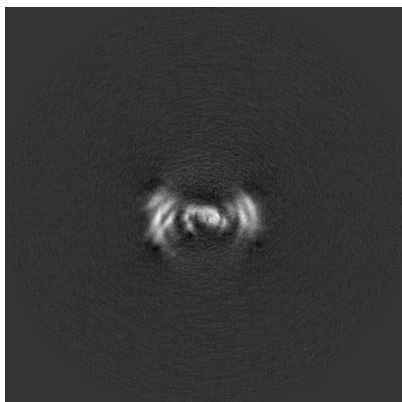


Y Index: 169

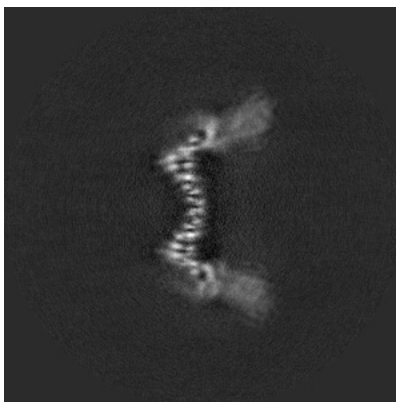


Z Index: 159

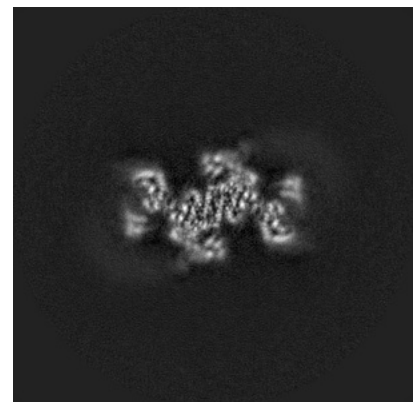
6.3.2 Raw map



X Index: 166



Y Index: 169

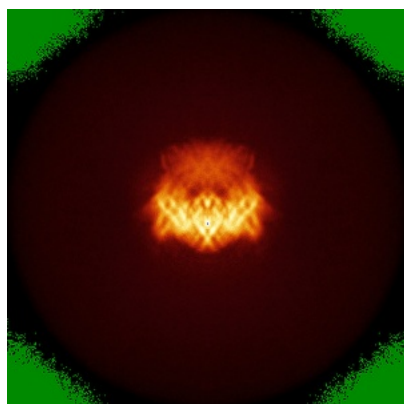


Z Index: 159

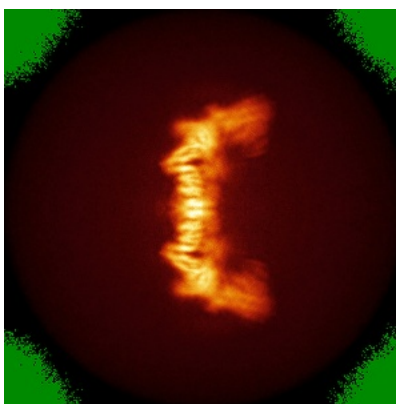
The images above show the largest variance slices of the map in three orthogonal directions.

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

6.4.1 Primary map



X

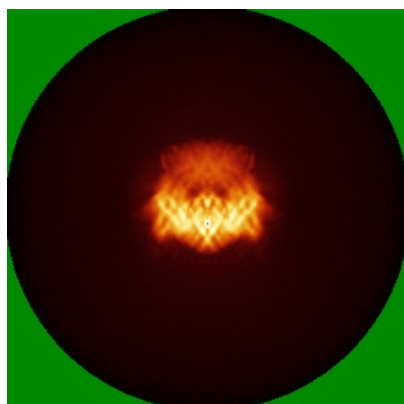


Y

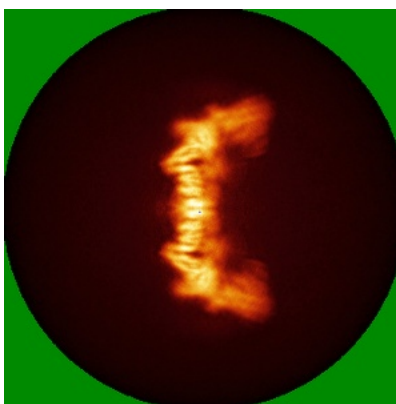


Z

6.4.2 Raw map



X



Y

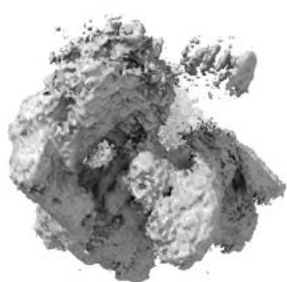


Z

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



X



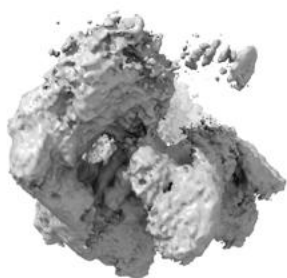
Y



Z

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



X



Y



Z

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.

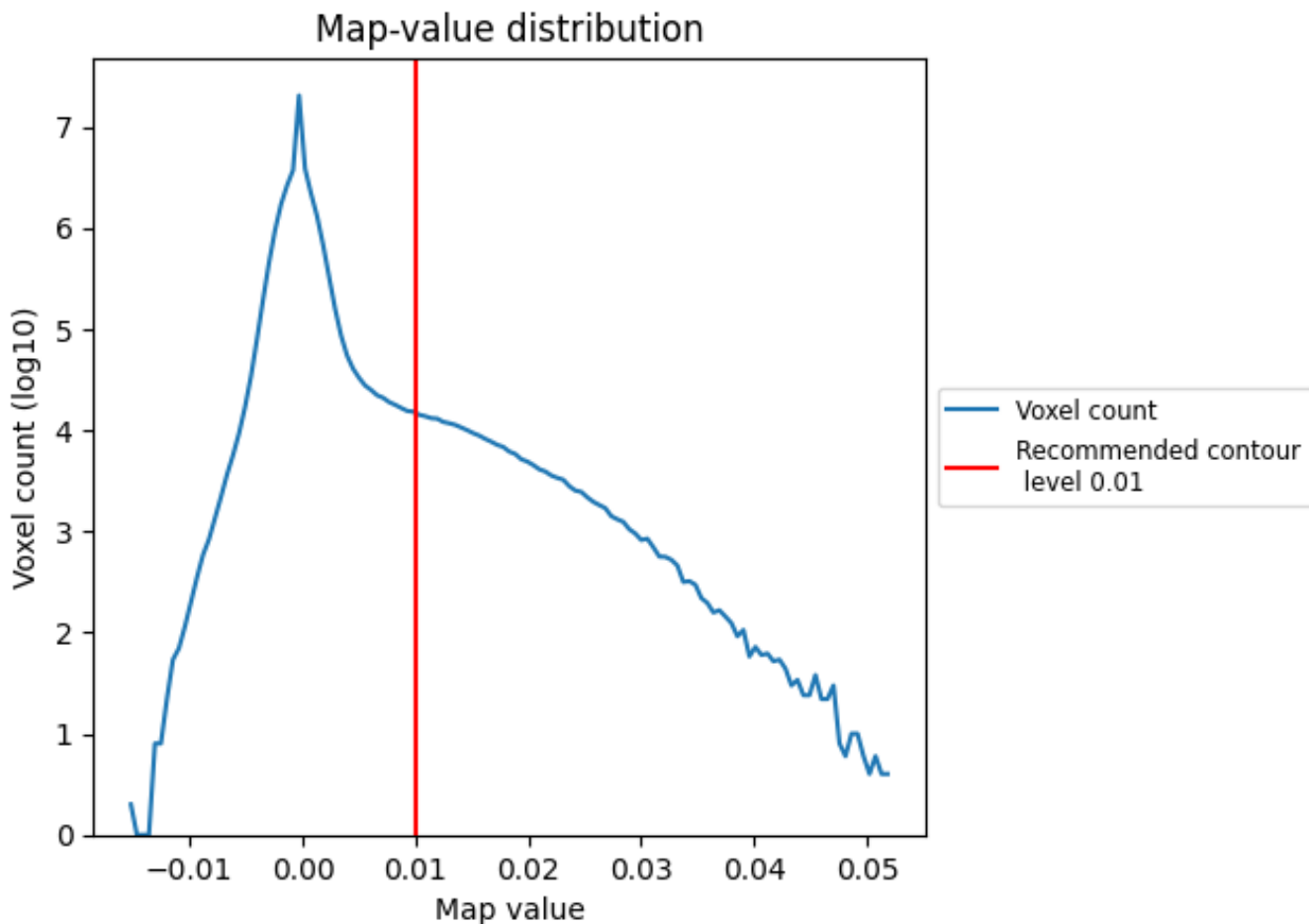
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

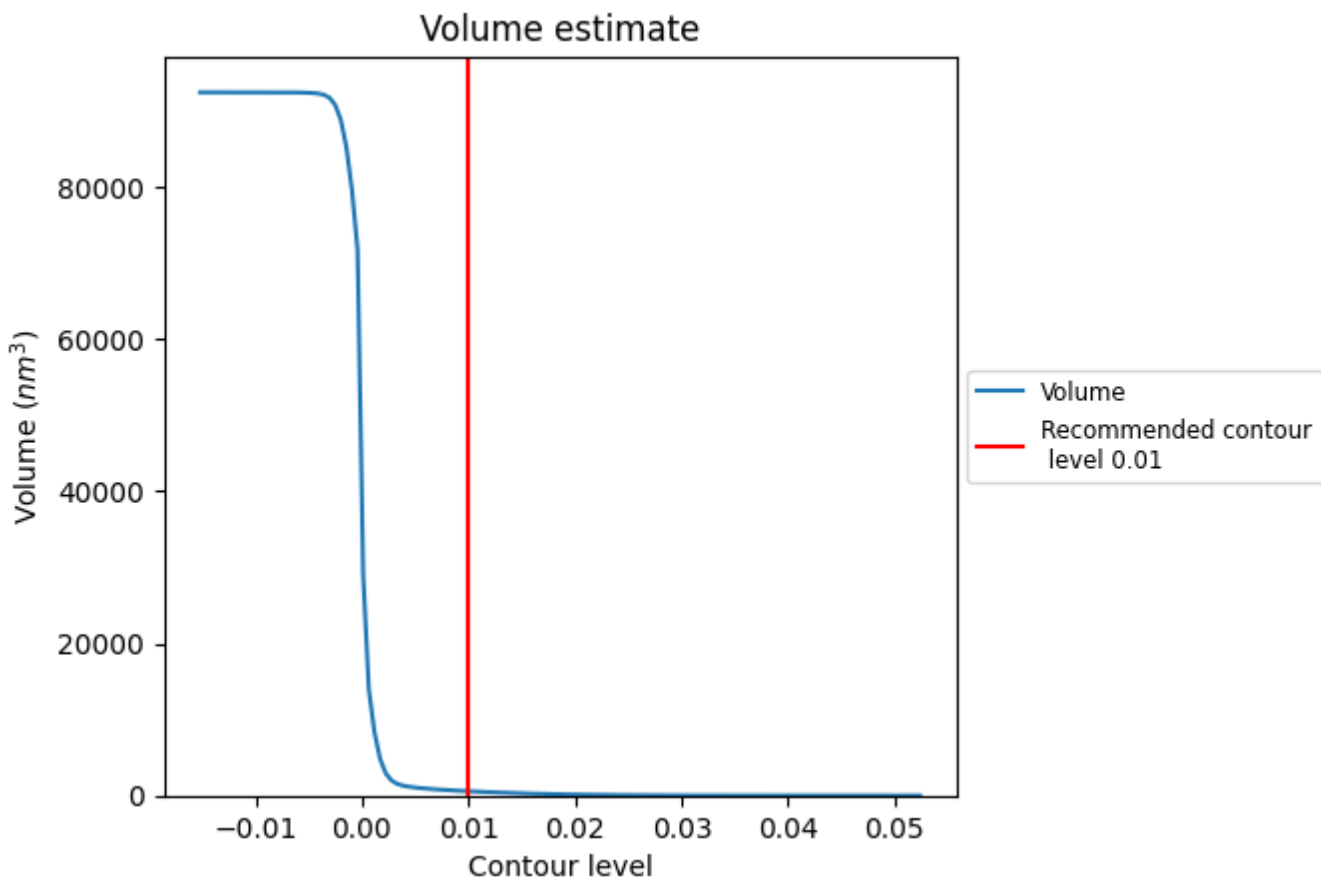
This section contains the results of statistical analysis of the map.

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.

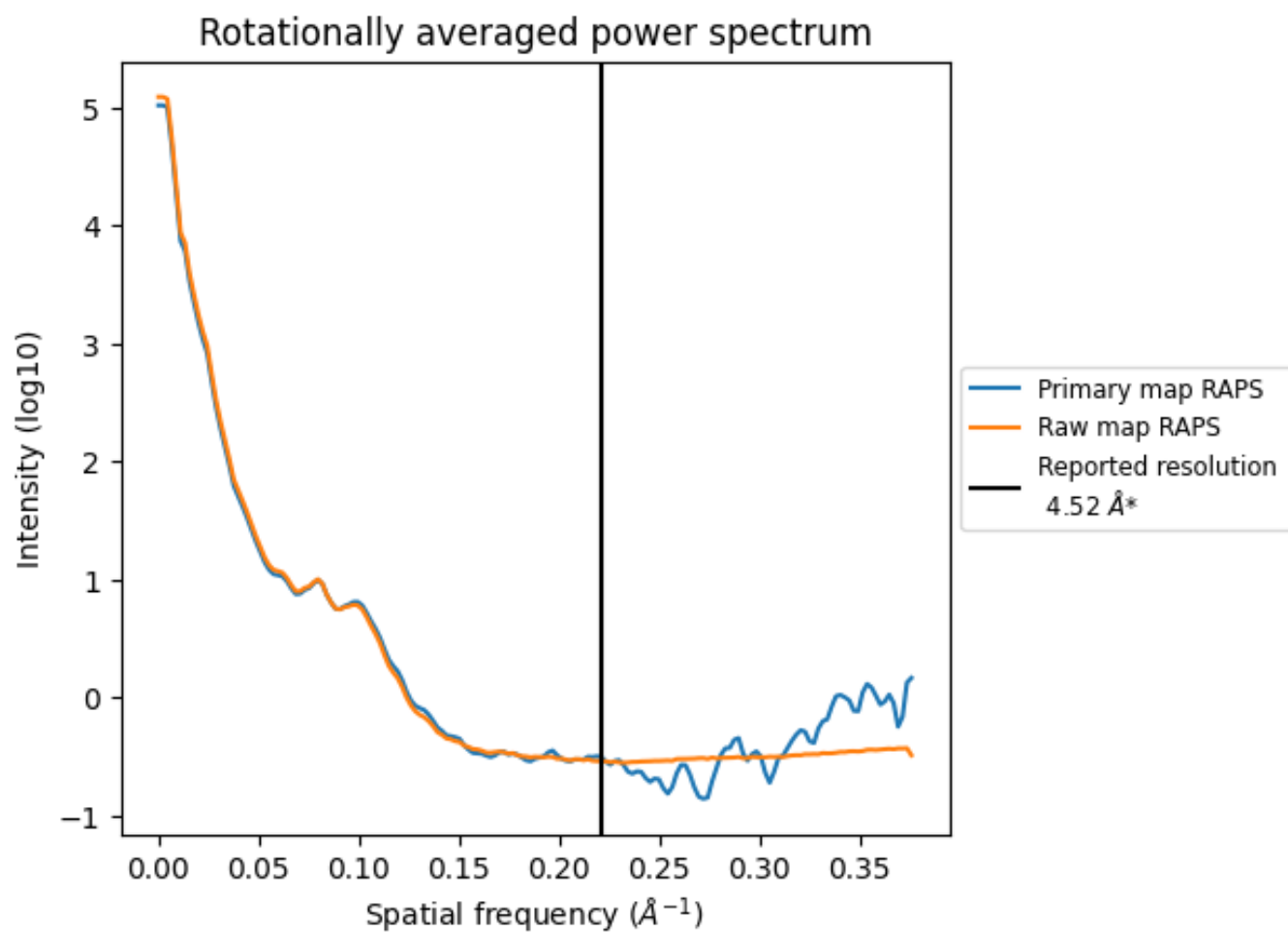
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 568 nm^3 ; this corresponds to an approximate mass of 513 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 i

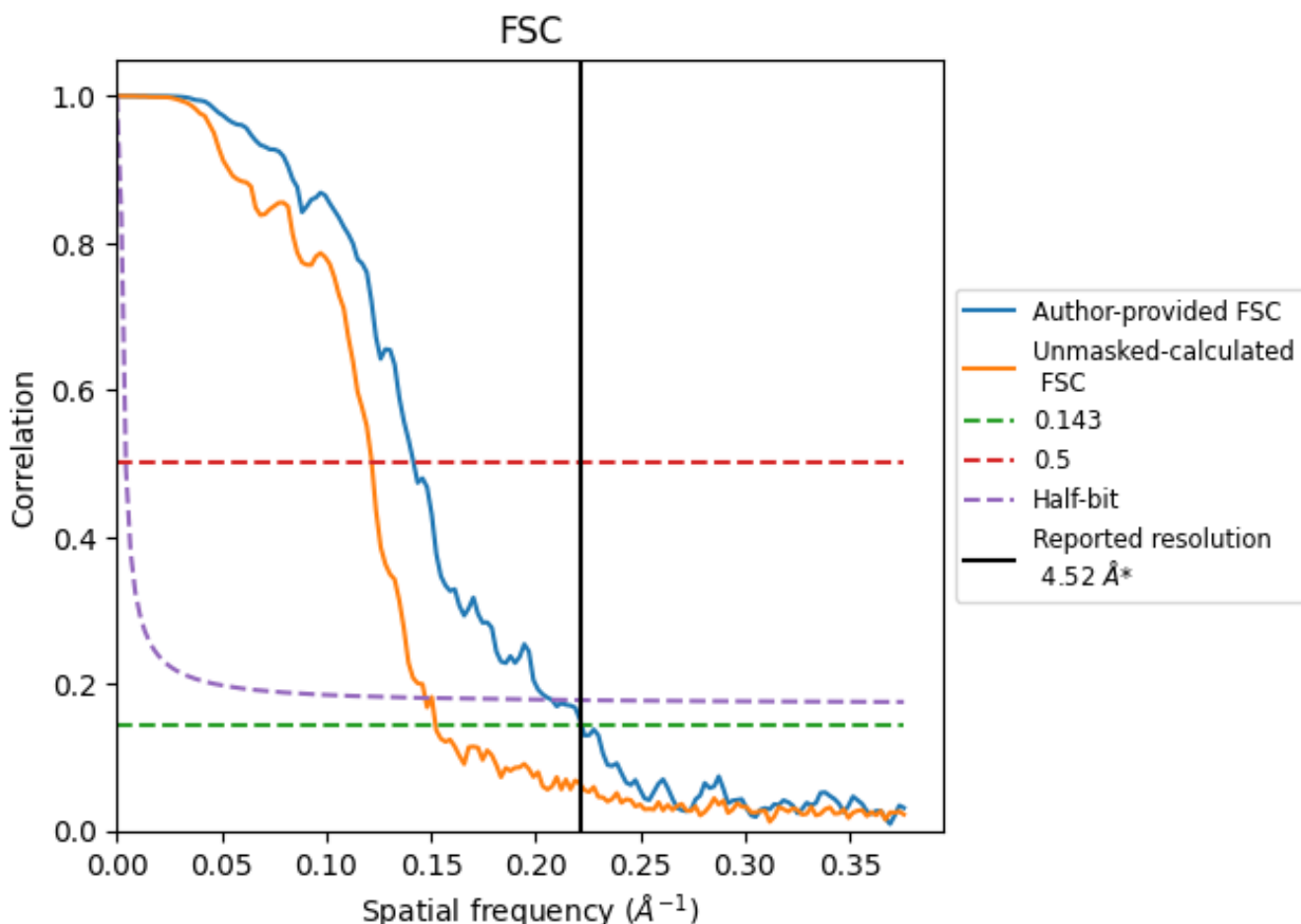


*Reported resolution corresponds to spatial frequency of 0.221 Å⁻¹

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 0.221 \AA^{-1}

8.2 Resolution estimates [i](#)

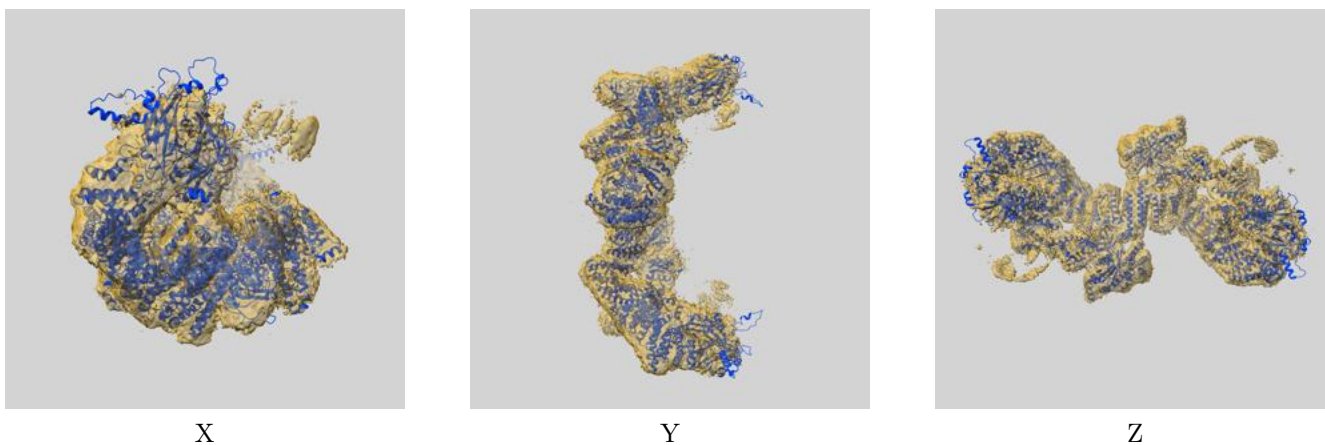
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.52	-	-
Author-provided FSC curve	4.50	7.05	4.81
Unmasked-calculated*	6.57	8.21	6.79

*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 6.57 differs from the reported value 4.52 by more than 10 %

9 Map-model fit [i](#)

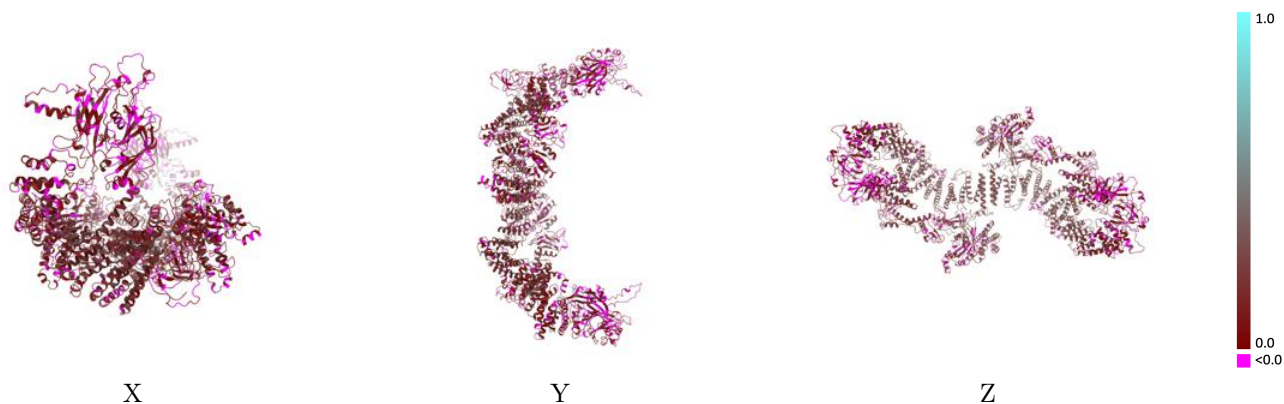
This section contains information regarding the fit between EMDB map EMD-60150 and PDB model 8ZJM. Per-residue inclusion information can be found in section 3 on page 5.

9.1 Map-model overlay [i](#)



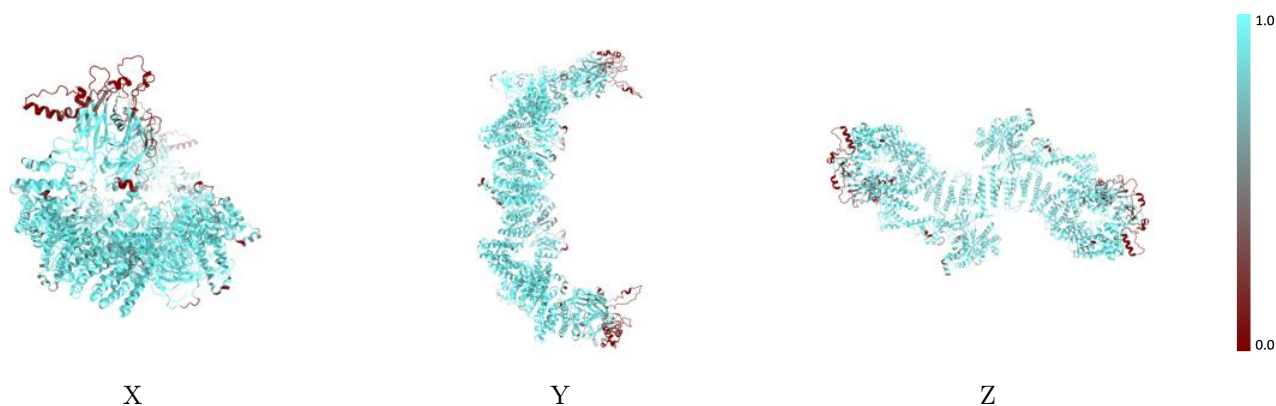
The images above show the 3D surface view of the map at the recommended contour level 0.01 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



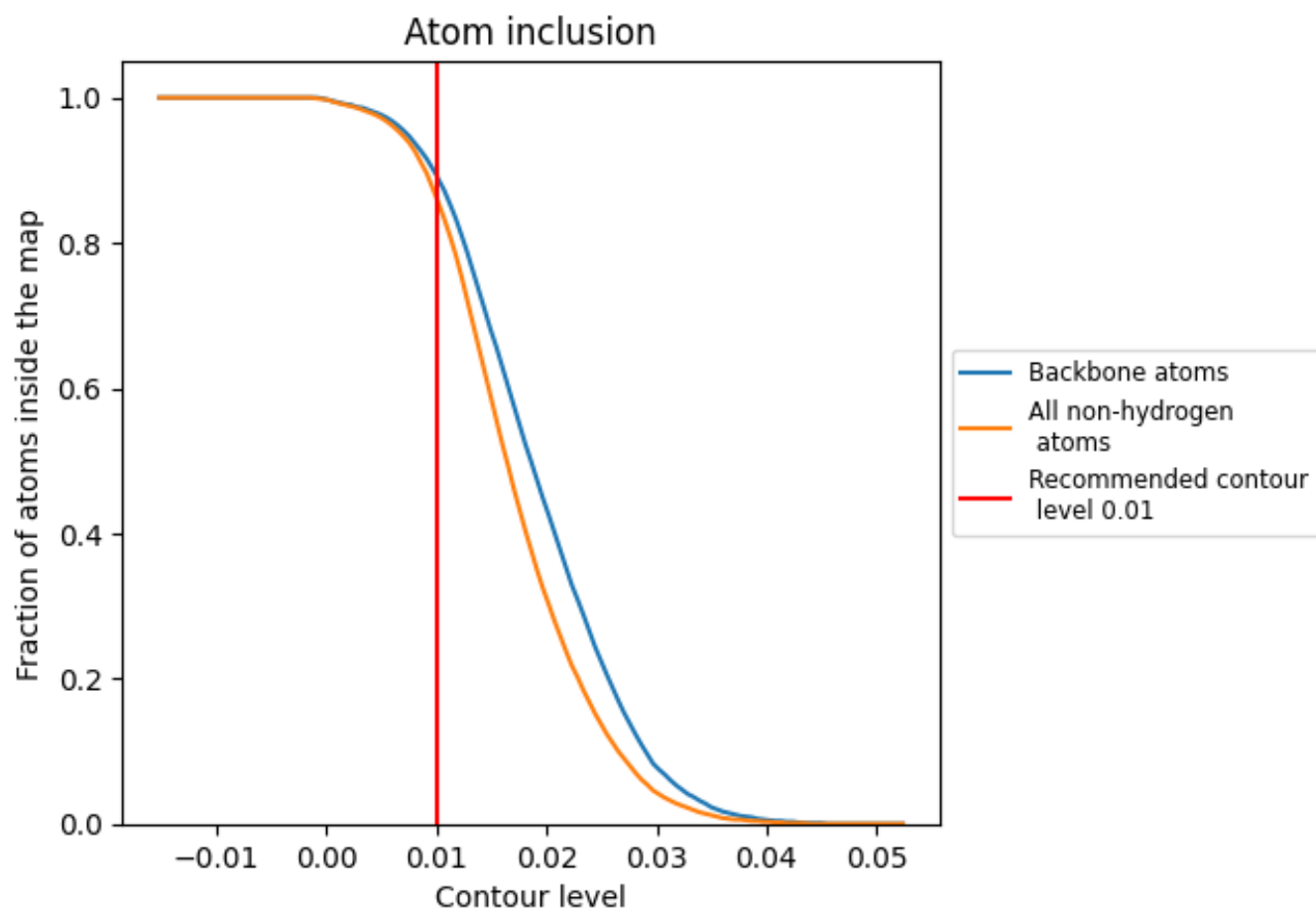
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 89% of all backbone atoms, 86% 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	 0.8620	 0.1420
A	 0.8650	 0.1090
B	 0.8590	 0.1490
C	 0.8680	 0.1320
D	 0.8770	 0.1070
E	 0.8600	 0.1450
F	 0.8720	 0.1300

