



Full wwPDB EM Validation Report ⓘ

Nov 19, 2022 – 08:25 am GMT

PDB ID : 5LKH
EMDB ID : EMD-4068
Title : Cryo-EM structure of the Tc toxin TcdA1 in its pore state (obtained by flexible fitting)
Authors : Gatsogiannis, C.; Merino, F.; Prumbaum, D.; Roderer, D.; Leidreiter, F.; Meusch, D.; Raunser, S.
Deposited on : 2016-07-22
Resolution : 3.46 Å(reported)

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.dev43
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.2

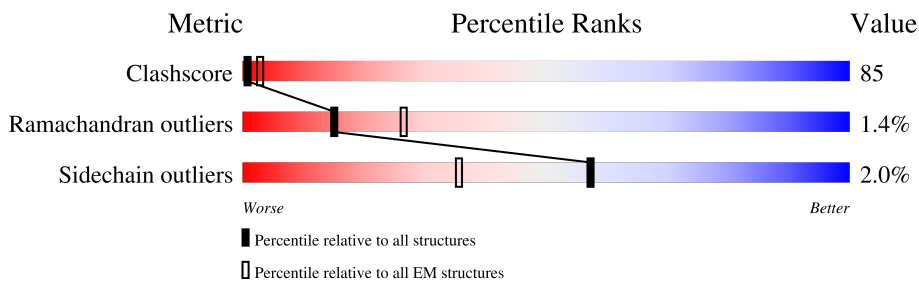
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.46 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	2516	
1	B	2516	
1	C	2516	
1	D	2516	
1	E	2516	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 37345 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.

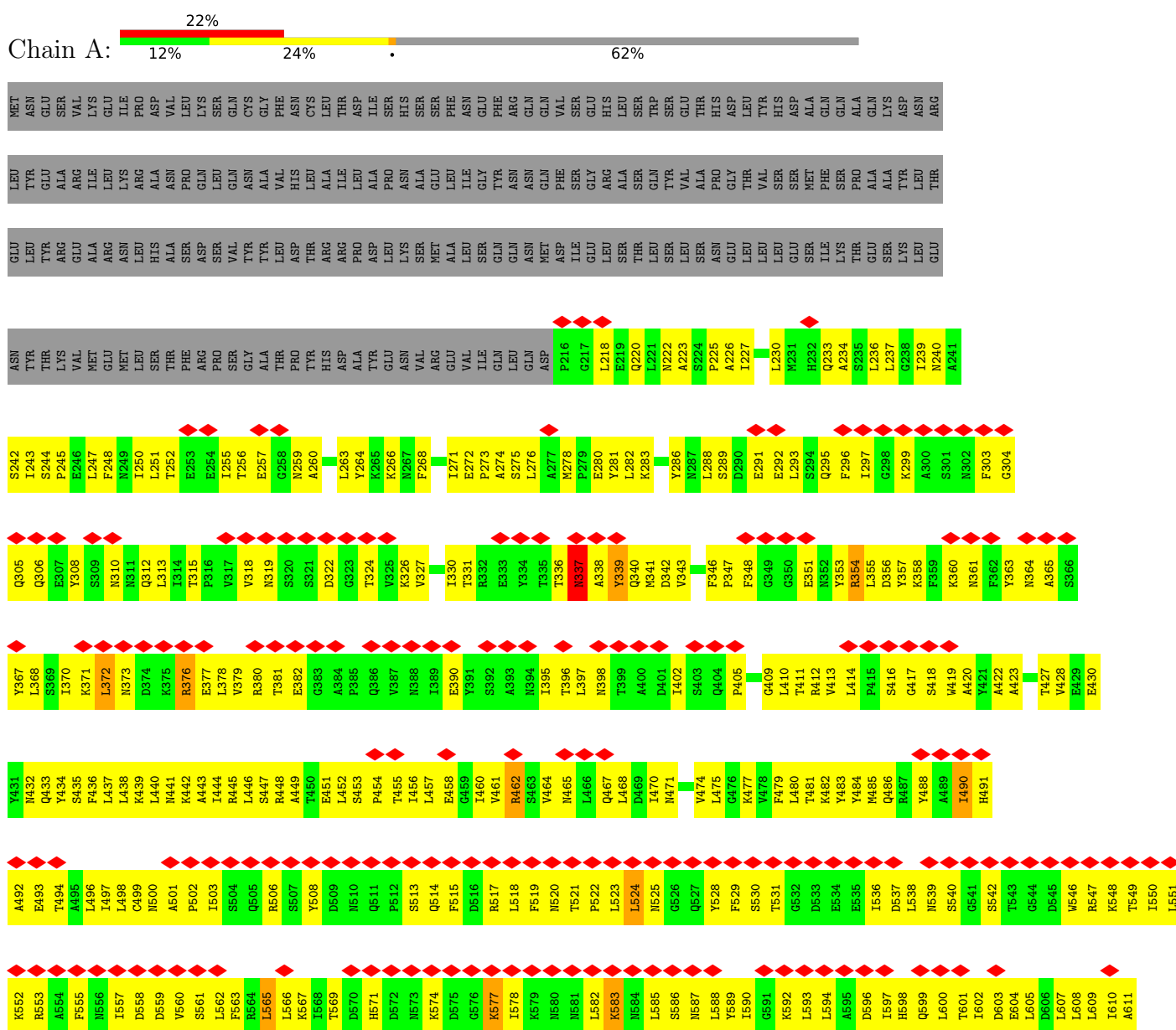
- Molecule 1 is a protein called TcdA1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	948	Total 7469	C 4751	N 1240	O 1458	S 20	0	0
1	B	948	Total 7469	C 4751	N 1240	O 1458	S 20	0	0
1	C	948	Total 7469	C 4751	N 1240	O 1458	S 20	0	0
1	D	948	Total 7469	C 4751	N 1240	O 1458	S 20	0	0
1	E	948	Total 7469	C 4751	N 1240	O 1458	S 20	0	0

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: TcdA1



Sequence alignment showing amino acid residues (e.g., LEU, THR, ASP, SER, MET, etc.) with corresponding validation scores or flags above them. The residues are arranged in multiple rows, and the flags are represented by colored diamonds and numbers (e.g., P1523, S1524, F1525, D1526, E1527, M1528, M1529, Y1530, Q1531, F1532, M1533, A1534, L1535, E1536, I1537, D1538, G1539, S1540, G1541, L1542, I1543, F1544, M1547, S1548, A1549, S1550, I1551, D1552, V1553, T1554, F1555, T1556, A1557, F1558, A1559, E1560, D1561, G1562, R1563, K1564, L1565, G1566, Y1567, S1568, S1569, F1570, S1571, I1572, V1574, L1575, L1576, K1577, V1578, S1579).

● Molecule 1: TcdA1



Sequence alignment showing amino acid residues (e.g., MET, ASN, GLU, THR, SER, etc.) in a single row.

GLY	VAL	L734	V674	A611	L551	H491	E430	S366	G304	I243	ASN
LEU	LEU	W735	V675	V612	K552	A492	T431	Y367	Q305	S244	TYR
THR	THR	T736	H676	G613	R553	E493	Q433	L368	Q306	P245	THR
ALA	ALA	K737	G677	G615	A554	T494	Y434	S369	E307	E246	ARG
LEU	LEU	Y738	L678	K616	F555	A495	S435	F248	Y308	F248	MET
ASN	ASN	T739	Q679	T617	N556	L496	F436	N249	GLU	ARG	LEU
SER	SER	P740	Q680	L618	I557	L497	L437	I250	MET	ASN	LEU
GLN	GLN	G741	F681	L619	D558	L498	N310	I251	LEU	ARG	LEU
ALA	ALA	S742	D682	S620	D559	C499	N311	T252	SER	HIS	ALA
ASN	ASN	S743	K683	A621	N500	A501	L440	E253	THR	ALA	ASN
THR	THR	E744	D684	I622	V560	A502	K375	E254	PHE	ASP	PRO
LEU	LEU	A745	K685	S623	S561	P503	L313	T255	ARG	ASP	GLN
ALA	ALA	V746	A686	D624	L562	E504	P316	T256	SER	SER	LEU
LEU	LEU	E747	D687	K625	R564	S504	L378	E257	VAL	SER	GLN
LEU	LEU	T748	L688	A628	L566	L444	V379	E258	TYR	VAL	GLN
GLU	GLU	Q749	L689	T629	K567	R448	R380	G258	GLY	TYR	ASN
SER	SER	E750	H690	L630	T569	S507	V318	N259	THR	LEU	VAL
ARG	ARG	H751	V691	L631	D570	S508	N319	A260	PRO	THR	LEU
SER	SER	I752	M692	K633	H571	P512	N320		TYR	THR	LEU
ALA	ALA	V753	A693	L634	D572	Y508	G383		HIS	ARG	ALA
LEU	LEU	Q754	P694	T638	N573	D509	A384		ASP	ARG	ALA
LEU	LEU	Y755	V695	M640	K574	N510	A384		ALA	ARG	ALA
LEU	LEU	C756	L696	L641	D576	Q511	S453		TYR	ASP	ALA
THR	THR	W757	A697	H642	K577	P512	T455		GLY	LEU	PRO
THR	THR	A758	L698	H643	I578	Q514	T456		ASN	LEU	ASN
LEU	LEU	L759	T699	T644	L578	R517	L460		GLN	LEU	GLN
ALA	ALA	A760	L700	Q644	K579	F519	V461		ASP	LEU	GLN
PRO	PRO	W761	Q701	K645	N580	N520	R462		MET	LEU	GLN
GLN	GLN	L762	L702	K646	N581	T521	S463		ASP	LEU	GLN
VAL	VAL	W763	S703	S647	L582	P522	M464		ASP	LEU	GLN
VAL	VAL	Y764	S704	V648	K683	P523	V464		ASP	LEU	GLN
LEU	LEU	Y766	S704	F649	N584	L524	M474		ASP	LEU	GLN
LEU	LEU	W767	W706	Q650	L585	N525	L475		ASP	LEU	GLN
LEU	LEU	S768	N706	Q650	S586	Q527	G476		ASP	LEU	GLN
ASP	ASP	T769	N707	Q650	L588	Q527	K477		ASP	LEU	GLN
TYR	TYR	G770	V707	L651	S586	Q527	V474		ASP	LEU	GLN
ARG	ARG	E771	A708	L651	S587	Q527	L475		ASP	LEU	GLN
ASP	ASP	W772	H709	L653	L588	Q527	G476		ASP	LEU	GLN
LEU	LEU	E773	S710	M654	L588	Q527	K477		ASP	LEU	GLN
LEU	LEU	F776	V710	T657	Y589	Y528	V478		ASP	LEU	GLN
GLN	GLN	R777	L712	S658	I590	F529	V478		ASP	LEU	GLN
LEU	LEU	L778	L713	Y659	G591	T531	F479		ASP	LEU	GLN
LEU	LEU	F779	W714	M660	K592	G532	L480		ASP	LEU	GLN
ASP	ASP	F779	W715	M661	L593	G532	R481		ASP	LEU	GLN
ALA	ALA	W780	A715	K661	L594	D533	K482		ASP	LEU	GLN
ALA	ALA	T781	D716	T662	E534	L414	L414		ASP	LEU	GLN
ASP	ASP	K782	K717	L663	A595	P415	Y484		ASP	LEU	GLN
GLN	GLN	F783	L718	T664	D596	S416	S416		ASP	LEU	GLN
TRP	TRP	E784	L718	T664	H597	G417	G417		ASP	LEU	GLN
VAL	VAL	W785	Q719	E666	H598	R487	R487		ASP	LEU	GLN
SER	SER	F786	P720	E666	Q599	Y488	Y488		ASP	LEU	GLN
GLN	GLN	A789	G721	L600	L600	A489	W419		ASP	LEU	GLN
GLN	GLN	T790	D722	K668	T601	Y421	A420		ASP	LEU	GLN
GLN	GLN	G791	G723	M669	I602	A422	F359		ASP	LEU	GLN
GLU	GLU	A792	A724	L670	D603	T543	K360		ASP	LEU	GLN
GLU	GLU	A793	W725	L671	E604	G544	N361		ASP	LEU	GLN
ALA	ALA	F794	T726	D672	L605	G544	Y363		ASP	LEU	GLN
ALA	ALA	A795	E728	T673	L607	D606	N364		ASP	LEU	GLN
			E728	T673	L608	D606	A365		ASP	LEU	GLN
			K729	W731	L609	I610			ASP	LEU	GLN
			F730	D732	I610				ASP	LEU	GLN
			W733						ASP	LEU	GLN

Y1342	K1343	A1344	A1345	S1346	S1347	D1348	L1349	K1350	I1351	I1352	I1353	S1354	P1355	K1356	L1357	R1358	I1359	I1360	H1361	M1362	G1363	Y1364	E1365	G1366	Q1367	K1368	R1369	M1370	Q1371	C1372	M1373	L1374	M1375	M1376	K1377	Y1378	G1379	K1380	L1381	G1382	D1383	K1384	F1385	I1386	V1387	Y1388	T1389	S1390	L1391	G1392	V1393	M1394	P1395	M1396	M1397	S1398	N1400	K1401		
Gln	Ser	Asn	Val	Tyr	Arg	Asp	Asn	Ser	Tyr	Gln	Phe	Asp	Thr	Asn	Asn	Val	Arg	Val	Asn	Arg	Arg	Y1306	A1307	E1308	D1309	Y1310	E1311	I1312	P1313	S1314	S1315	Y1316	S1317	S1318	R1319	K1320	D1321	Y1322	K1323	W1324	G1325	G1326	D1327	Y1328	Y1329	S1330	M1331	Y1332	Y1333	M1334	G1335	D1336	L1391	I1337	P1338	T1339	I1340	M1341		
Ser	Glu	Leu	Lys	Leu	Glu	Lys	Asn	Arg	Leu	Lys	Cys	Glu	Ala	Gly	Thr	Tyr	Leu	Leu	Leu	Leu	Val	Met	G1363	Y1364	E1365	Q1366	K1368	R1369	M1370	Q1371	C1372	M1373	L1374	M1375	M1376	K1377	Y1378	G1379	K1380	L1381	G1382	D1383	K1384	F1385	I1386	V1387	Y1388	T1389	S1390	L1391	G1392	V1393	M1394	P1395	M1396	M1397	S1398	N1400	K1401	
Ile	Tyr	Ser	Arg	Leu	Tyr	Leu	Phe	Leu	Leu	Lys	Glu	Ala	Gly	Thr	Tyr	Leu	Leu	Leu	Leu	Leu	Val	Met	G1363	Y1364	E1365	Q1366	K1368	R1369	M1370	Q1371	C1372	M1373	L1374	M1375	M1376	K1377	Y1378	G1379	K1380	L1381	G1382	D1383	K1384	F1385	I1386	V1387	Y1388	T1389	S1390	L1391	G1392	V1393	M1394	P1395	M1396	M1397	S1398	N1400	K1401	
Asn	Asp	Leu	Leu	Leu	Leu	Leu	Phe	Leu	Leu	Lys	Glu	Ala	Gly	Thr	Tyr	Leu	Leu	Leu	Leu	Leu	Val	Met	G1363	Y1364	E1365	Q1366	K1368	R1369	M1370	Q1371	C1372	M1373	L1374	M1375	M1376	K1377	Y1378	G1379	K1380	L1381	G1382	D1383	K1384	F1385	I1386	V1387	Y1388	T1389	S1390	L1391	G1392	V1393	M1394	P1395	M1396	M1397	S1398	N1400	K1401	
Glu	Asn	Tyr	Ile	Pro	Thr	Met	Met	Met	Met	Lys	Lys	Met	Met	Met	Met	Lys	Leu	Leu	Leu	Leu	Val	Gln	Ser	G1363	Y1364	E1365	Q1366	K1368	R1369	M1370	Q1371	C1372	M1373	L1374	M1375	M1376	K1377	Y1378	G1379	K1380	L1381	G1382	D1383	K1384	F1385	I1386	V1387	Y1388	T1389	S1390	L1391	G1392	V1393	M1394	P1395	M1396	M1397	S1398	N1400	K1401
Lys	Thr	Arg	Arg	Ile	Ala	Ala	Ile	Ser	Ile	Leu	Tyr	Val	Val	Val	Val	Leu	Leu	Leu	Leu	Leu	Val	Gln	Asn	G1363	Y1364	E1365	Q1366	K1368	R1369	M1370	Q1371	C1372	M1373	L1374	M1375	M1376	K1377	Y1378	G1379	K1380	L1381	G1382	D1383	K1384	F1385	I1386	V1387	Y1388	T1389	S1390	L1391	G1392	V1393	M1394	P1395	M1396	M1397	S1398	N1400	K1401
Leu	Thr	Ala	Gly	Leu	Asn	Ser	Gln	Gln	Met	His	Ala	Phe	Leu	Leu	Leu	Leu	Leu	Leu	Leu	Leu	Ala	Ala	G1363	Y1364	E1365	Q1366	K1368	R1369	M1370	Q1371	C1372	M1373	L1374	M1375	M1376	K1377	Y1378	G1379	K1380	L1381	G1382	D1383	K1384	F1385	I1386	V1387	Y1388	T1389	S1390	L1391	G1392	V1393	M1394	P1395	M1396	M1397	S1398	N1400	K1401	
T494	A495	L496	I497	L498	N500	A501	P502	I503	S504	Q505	R506	S507	Y508	D509	N510	Q511	P512	S513	Q514	F515	D516	R517	L518	F519	N520	P522	L523	L524	N525	G526	Q527	Y528	F529	S530	T531	G532	D533	E534	E535	I536	D537	L538	N539	S540	G541	S542	T543	G544	D545	W546	R547	K548	I549	L550	L551	K552	R553			
A554	F555	N556	I557	D558	V560	S561	L562	F563	R564	L565	L566	K567	I568	D570	H571	D572	N573	K574	D575	G576	K577	I578	K579	N580	N581	L582	K583	N584	L585	S586	N587	L588	Y589	I590	G591	K592	L593	L594	A595	D596	I597	D598	Q599	L600	T601	I602	D603	E604	L605	D606	L607	L608	L609	I610	T549	V612	G613			
E614	G615	K616	T617	N618	L619	S620	A621	I622	S623	D624	G625	Q626	L627	A628	T629	L630	I631	G632	K633	L634	T638	S639	W640	L641	H642	T643	Q644	K645	W646	S647	V648	F649	Q650	L651	F652	G653	M654	T657	S658	Y659	N660	K661	T662	L663	T664	P665	E666	I667	K668	N669	L670	L671	D672	T673	V674	Y675	H676			
G677	L678	Q679	G680	F681	D682	K683	D684	K685	A686	D687	L688	L689	H690	V691	M692	A693	P694	Y695	I696	A697	A698	T699	L700	Q701	L702	S703	S704	E705	N706	V707	A708	H709	S710	V711	L712	L713	W714	A715	D716	K717	L718	Q719	P720	G721	D722	G723	A724	M725	T726	A727	E728	F729	K730	W731	D732	L733	N735	T736		
K737	Y738	T739	P740	G741	S742	S743	E744	A745	V746	E747	T748	Q749	L750	H751	I752	Q753	W754	Y755	C756	Q757	A758	L759	A760	L762	E763	W765	Y766	H767	S768	T769	G770	I771	M772	E773	F776	R777	L778	F779	V780	T781	K782	P783	E784	M785	F786	A789	T790	G791	A792	A793	P794	A795	H796	D797	A798					
L799	S800	L801	T802	N803	L804	T805	R806	F807	A808	D809	W810	V811	N812	A813	L814	Q815	E816	K817	A818	S819	S820	V821	L822	A823	A824	F825	S829	L830	T831	A832	E833	Q834	L835	A836	A838	M839	N840	L841	D842	A843	N844	L845	L846	L847	Q848	A849	S850	L851	Q852	A853	Q854	N855	H856	L859	P860	P861				

Decorative diamond icons at the top of the page.

L1402	N1462	P1523	LEU
M1403	K1463	S1524	THR
F1404	P1464	F1525	PHE
Y1405	D1465	D1526	VAL
P1406	D1466	E1527	VAL
Y1407	L1467	M1528	PRO
Y1408	K1468	M1529	GLY
Q1409	Q1469	Y1530	LEU
Y1410	Q1470	Q1531	PHE
S1411	I1471	F1532	LEU
G1412	F1472	M1533	PRO
N1413	M1473	A1534	ASP
T1414	T1474	L1535	GLY
S1415	D1475	E1536	TRP
G1416	S1476	I1537	ALA
L1417	K1477	D1538	GLN
M1418	G1478	G1539	THR
Q1419	T1479	M1540	ASP
G1420	A1480	G1541	ASP
R1421	T1481	L1542	VAL
L1422	D1482	M1543	GLN
L1423	V1483	F1544	ALA
F1424	S1484	M1545	VAL
H1425	G1485	S1550	ALA
P1426	V1486	I1551	THR
D1427	V1487	D1552	THR
T1428	E1488	V1553	THR
T1429	I1489	T1554	LEU
Y1430	N1490	F1555	THR
P1431	T1491	T1556	GLY
S1432	A1492	A1557	LEU
K1433	I1493	F1558	ALA
V1434	S1494	A1559	GLY
E1435	P1495	E1560	LEU
A1436	A1496	D1561	THR
V1437	K1497	G1562	ASP
I1438	V1498	R1563	THR
P1439	Q1499	K1564	THR
G1440	I1500	L1565	THR
A1441	I1501	G1566	ALA
K1442	V1502	Y1567	ALA
R1443	K1503	E1568	ALA
S1444	A1504	S1569	ALA
L1445	K1507	F1570	ALA
T1446	E1508	S1571	ALA
N1447	Q1509	I1572	ALA
Q1448	T1510	P1573	THR
N1449	F1511	V1574	THR
A1450	T1512	T1575	THR
L1451	A1513	L1576	THR
L1452	D1514	K1577	THR
G1453	K1515	V1578	THR
D1454	D1516	THR	THR
D1455	D1517	ASP	THR
Y1456	S1518	ASN	THR
A1457	I1519	ALA	THR
T1458	Q1520	ALA	THR
D1459	P1521	ALA	THR
S1460	S1522	ALA	THR
L1461			



LEU GLY PRO TYR GLN ASP VAL GLN ALA ILE LEU SER TYR GLY ASP LYS ALA GLY LEU ALA ASN CYS GLU ALA LEU VAL VAL SER HIS GLY MET ASN ASP SER GLY GLN PHE GLN LEU ASP PHE ASN ASP GLY LYS PHE LEU PRO PHE GLU ILE ALA ILE ASP GLN THR GLY LEU

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

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C5	Depositor
Number of particles used	13000	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 ($e^-/\text{\AA}^2$)	15.4	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	59000	Depositor
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	29.239	Depositor
Minimum map value	-15.199	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	6.75	Depositor
Map size (Å)	442.74002, 442.74002, 442.74002	wwPDB
Map dimensions	282, 282, 282	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.57, 1.57, 1.57	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	0.89	0/7627	1.14	20/10362 (0.2%)
1	B	0.89	0/7627	1.14	20/10362 (0.2%)
1	C	0.89	0/7627	1.14	20/10362 (0.2%)
1	D	0.89	0/7627	1.14	20/10362 (0.2%)
1	E	0.89	0/7627	1.14	20/10362 (0.2%)
All	All	0.89	0/38135	1.14	100/51810 (0.2%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	1
1	C	0	1
1	D	0	1
1	E	0	1
All	All	0	5

There are no bond length outliers.

All (100) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1541	GLY	C-N-CA	9.54	145.55	121.70
1	B	1541	GLY	C-N-CA	9.53	145.53	121.70
1	E	1541	GLY	C-N-CA	9.52	145.49	121.70
1	A	1541	GLY	C-N-CA	9.51	145.49	121.70
1	D	1541	GLY	C-N-CA	9.51	145.47	121.70
1	D	1316	VAL	CA-CB-CG1	-7.22	100.07	110.90
1	A	1316	VAL	CA-CB-CG1	-7.21	100.08	110.90
1	B	1316	VAL	CA-CB-CG1	-7.21	100.09	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	1316	VAL	CA-CB-CG1	-7.20	100.10	110.90
1	C	1316	VAL	CA-CB-CG1	-7.20	100.11	110.90
1	A	670	LEU	CB-CA-C	-7.04	96.82	110.20
1	B	670	LEU	CB-CA-C	-7.04	96.83	110.20
1	D	670	LEU	CB-CA-C	-7.03	96.84	110.20
1	E	670	LEU	CB-CA-C	-7.02	96.86	110.20
1	C	670	LEU	CB-CA-C	-7.02	96.87	110.20
1	B	1327	TYR	CA-CB-CG	-6.19	101.64	113.40
1	E	1327	TYR	CA-CB-CG	-6.18	101.66	113.40
1	A	1327	TYR	CA-CB-CG	-6.17	101.67	113.40
1	C	1327	TYR	CA-CB-CG	-6.17	101.67	113.40
1	D	1327	TYR	CA-CB-CG	-6.16	101.70	113.40
1	A	1542	LEU	N-CA-C	-5.95	94.94	111.00
1	E	1542	LEU	N-CA-C	-5.94	94.95	111.00
1	B	1542	LEU	N-CA-C	-5.93	94.98	111.00
1	A	1316	VAL	CG1-CB-CG2	5.93	120.39	110.90
1	C	1542	LEU	N-CA-C	-5.93	94.99	111.00
1	D	1542	LEU	N-CA-C	-5.93	94.99	111.00
1	D	1316	VAL	CG1-CB-CG2	5.90	120.35	110.90
1	C	1316	VAL	CG1-CB-CG2	5.89	120.33	110.90
1	E	1316	VAL	CG1-CB-CG2	5.89	120.32	110.90
1	B	1316	VAL	CG1-CB-CG2	5.89	120.32	110.90
1	A	1541	GLY	CA-C-N	-5.86	104.30	117.20
1	B	1316	VAL	CB-CA-C	-5.86	100.27	111.40
1	D	1541	GLY	CA-C-N	-5.86	104.31	117.20
1	E	1541	GLY	CA-C-N	-5.86	104.32	117.20
1	D	1316	VAL	CB-CA-C	-5.85	100.29	111.40
1	A	1316	VAL	CB-CA-C	-5.84	100.30	111.40
1	C	1316	VAL	CB-CA-C	-5.84	100.30	111.40
1	C	1541	GLY	CA-C-N	-5.84	104.35	117.20
1	B	1541	GLY	CA-C-N	-5.83	104.37	117.20
1	E	1316	VAL	CB-CA-C	-5.83	100.31	111.40
1	B	1395	PRO	N-CA-C	-5.78	97.06	112.10
1	E	1395	PRO	N-CA-C	-5.78	97.08	112.10
1	C	1395	PRO	N-CA-C	-5.77	97.09	112.10
1	A	1395	PRO	N-CA-C	-5.77	97.09	112.10
1	D	1395	PRO	N-CA-C	-5.77	97.11	112.10
1	B	524	LEU	CB-CA-C	-5.71	99.34	110.20
1	D	524	LEU	CB-CA-C	-5.70	99.37	110.20
1	C	524	LEU	CB-CA-C	-5.70	99.37	110.20
1	A	524	LEU	CB-CA-C	-5.70	99.38	110.20
1	E	524	LEU	CB-CA-C	-5.68	99.41	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	832	ALA	N-CA-CB	5.68	118.05	110.10
1	C	1578	VAL	CG1-CB-CG2	5.67	119.98	110.90
1	D	832	ALA	N-CA-CB	5.67	118.03	110.10
1	A	1578	VAL	CG1-CB-CG2	5.65	119.94	110.90
1	E	1578	VAL	CG1-CB-CG2	5.65	119.94	110.90
1	C	832	ALA	N-CA-CB	5.65	118.01	110.10
1	B	1578	VAL	CG1-CB-CG2	5.64	119.93	110.90
1	E	832	ALA	N-CA-CB	5.64	117.99	110.10
1	D	1578	VAL	CG1-CB-CG2	5.63	119.91	110.90
1	A	832	ALA	N-CA-CB	5.62	117.97	110.10
1	A	565	LEU	CB-CA-C	-5.43	99.88	110.20
1	D	565	LEU	CB-CA-C	-5.41	99.92	110.20
1	B	565	LEU	CB-CA-C	-5.41	99.93	110.20
1	E	565	LEU	CB-CA-C	-5.40	99.94	110.20
1	C	565	LEU	CB-CA-C	-5.39	99.95	110.20
1	B	848	GLN	N-CA-CB	5.33	120.20	110.60
1	E	848	GLN	N-CA-CB	5.32	120.17	110.60
1	D	848	GLN	N-CA-CB	5.31	120.16	110.60
1	A	848	GLN	N-CA-CB	5.30	120.15	110.60
1	C	848	GLN	N-CA-CB	5.29	120.12	110.60
1	D	868	PHE	CA-CB-CG	-5.25	101.30	113.90
1	C	1309	ASP	N-CA-C	-5.24	96.87	111.00
1	B	868	PHE	CA-CB-CG	-5.23	101.34	113.90
1	A	1309	ASP	N-CA-C	-5.23	96.87	111.00
1	E	868	PHE	CA-CB-CG	-5.23	101.34	113.90
1	B	1309	ASP	N-CA-C	-5.23	96.88	111.00
1	A	868	PHE	CA-CB-CG	-5.23	101.35	113.90
1	D	1493	ILE	C-N-CA	-5.22	108.64	121.70
1	B	1493	ILE	C-N-CA	-5.22	108.64	121.70
1	D	1309	ASP	N-CA-C	-5.22	96.90	111.00
1	E	1309	ASP	N-CA-C	-5.22	96.90	111.00
1	C	868	PHE	CA-CB-CG	-5.21	101.39	113.90
1	A	1493	ILE	C-N-CA	-5.21	108.68	121.70
1	E	1493	ILE	C-N-CA	-5.20	108.69	121.70
1	C	1493	ILE	C-N-CA	-5.20	108.69	121.70
1	C	339	TYR	N-CA-C	-5.20	96.97	111.00
1	D	339	TYR	N-CA-C	-5.19	96.98	111.00
1	A	339	TYR	N-CA-C	-5.19	97.00	111.00
1	E	339	TYR	N-CA-C	-5.19	96.99	111.00
1	B	339	TYR	N-CA-C	-5.18	97.01	111.00
1	C	616	LYS	N-CA-C	-5.11	97.20	111.00
1	D	616	LYS	N-CA-C	-5.10	97.22	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	616	LYS	N-CA-C	-5.10	97.23	111.00
1	A	616	LYS	N-CA-C	-5.10	97.23	111.00
1	B	616	LYS	N-CA-C	-5.10	97.23	111.00
1	C	337	ASN	CA-CB-CG	-5.08	102.23	113.40
1	A	337	ASN	CA-CB-CG	-5.07	102.24	113.40
1	E	337	ASN	CA-CB-CG	-5.06	102.26	113.40
1	D	337	ASN	CA-CB-CG	-5.06	102.27	113.40
1	B	337	ASN	CA-CB-CG	-5.05	102.29	113.40

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	615	GLY	Peptide
1	B	615	GLY	Peptide
1	C	615	GLY	Peptide
1	D	615	GLY	Peptide
1	E	615	GLY	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	7469	0	7341	1262	0
1	B	7469	0	7341	1262	0
1	C	7469	0	7341	1271	0
1	D	7469	0	7341	1254	0
1	E	7469	0	7341	1268	0
All	All	37345	0	36705	6317	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 85.

All (6317) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:557:ILE:HD11	1:C:592:LYS:HD2	1.21	1.21
1:C:218:LEU:HD21	1:C:239:ILE:HG21	1.19	1.18
1:A:1406:PRO:HG3	1:A:1473:MET:HE1	1.22	1.17
1:A:557:ILE:HD11	1:A:592:LYS:HD2	1.21	1.17
1:E:227:ILE:HD13	1:E:883:VAL:HB	1.26	1.16
1:B:1353:ILE:HG22	1:B:1355:PRO:HD3	1.26	1.16
1:A:524:LEU:HD22	1:A:549:THR:HG22	1.26	1.16
1:D:1406:PRO:HG3	1:D:1473:MET:HE1	1.26	1.16
1:E:1353:ILE:HG22	1:E:1355:PRO:HD3	1.26	1.16
1:B:1406:PRO:HG3	1:B:1473:MET:HE1	1.22	1.15
1:D:524:LEU:HD22	1:D:549:THR:HG22	1.26	1.15
1:E:218:LEU:HD21	1:E:239:ILE:HG21	1.19	1.14
1:E:260:ALA:HB1	1:E:435:SER:HB3	1.20	1.14
1:A:654:MET:HE2	1:A:765:VAL:HG22	1.24	1.14
1:A:353:TYR:HD2	1:A:397:LEU:HD13	1.12	1.14
1:B:524:LEU:HD22	1:B:549:THR:HG22	1.26	1.14
1:E:557:ILE:HD11	1:E:592:LYS:HD2	1.21	1.14
1:B:227:ILE:HD13	1:B:883:VAL:HB	1.26	1.13
1:C:260:ALA:HB1	1:C:435:SER:HB3	1.20	1.13
1:B:557:ILE:HD11	1:B:592:LYS:HD2	1.21	1.13
1:C:670:LEU:HG	1:C:699:THR:HG21	1.14	1.13
1:C:1406:PRO:HG3	1:C:1473:MET:HE1	1.22	1.13
1:E:654:MET:HE3	1:E:765:VAL:HA	1.24	1.13
1:E:1406:PRO:HG3	1:E:1473:MET:HE1	1.26	1.13
1:A:670:LEU:HG	1:A:699:THR:HG21	1.14	1.12
1:A:218:LEU:HD21	1:A:239:ILE:HG21	1.19	1.12
1:D:288:LEU:HD21	1:D:448:ARG:HD3	1.26	1.12
1:D:1353:ILE:HG22	1:D:1355:PRO:HD3	1.26	1.12
1:A:1353:ILE:HG22	1:A:1355:PRO:HD3	1.26	1.12
1:D:557:ILE:HD11	1:D:592:LYS:HD2	1.21	1.12
1:A:227:ILE:HD13	1:A:883:VAL:HB	1.26	1.11
1:B:654:MET:HE3	1:B:765:VAL:HG22	1.19	1.11
1:D:670:LEU:HG	1:D:699:THR:HG21	1.14	1.11
1:A:1337:ILE:HG22	1:A:1355:PRO:HB3	1.29	1.11
1:C:251:LEU:HD21	1:C:470:ILE:HG21	1.32	1.11
1:C:654:MET:HE3	1:C:765:VAL:HA	1.30	1.11
1:D:260:ALA:HB1	1:D:435:SER:HB3	1.20	1.11
1:E:1337:ILE:HG22	1:E:1355:PRO:HB3	1.29	1.11
1:A:288:LEU:HD21	1:A:448:ARG:HD3	1.26	1.11
1:B:251:LEU:HD21	1:B:470:ILE:HG21	1.32	1.11
1:D:654:MET:HE2	1:D:765:VAL:HG22	1.18	1.11
1:E:273:PRO:HB2	1:E:433:GLN:HB2	1.31	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:353:TYR:HD2	1:E:397:LEU:HD13	1.11	1.10
1:A:273:PRO:HB2	1:A:433:GLN:HB2	1.31	1.10
1:B:353:TYR:HD2	1:B:397:LEU:HD13	1.12	1.10
1:C:498:LEU:HD21	1:C:597:ILE:HG21	1.32	1.10
1:C:524:LEU:HD22	1:C:549:THR:HG22	1.26	1.10
1:A:251:LEU:HD21	1:A:470:ILE:HG21	1.32	1.10
1:B:218:LEU:HD21	1:B:239:ILE:HG21	1.19	1.10
1:B:260:ALA:HB1	1:B:435:SER:HB3	1.20	1.10
1:B:771:ILE:HD13	1:B:808:ALA:HB2	1.11	1.10
1:D:251:LEU:HD21	1:D:470:ILE:HG21	1.32	1.10
1:A:1468:LYS:HA	1:A:1468:LYS:HE2	1.31	1.09
1:B:622:ILE:HG12	1:B:626:GLN:HG3	1.33	1.09
1:C:622:ILE:HG12	1:C:626:GLN:HG3	1.33	1.09
1:C:1353:ILE:HG22	1:C:1355:PRO:HD3	1.26	1.09
1:D:218:LEU:HD21	1:D:239:ILE:HG21	1.19	1.09
1:D:771:ILE:HD13	1:D:808:ALA:HB2	1.11	1.09
1:E:251:LEU:HD21	1:E:470:ILE:HG21	1.32	1.09
1:C:771:ILE:HD13	1:C:808:ALA:HB2	1.11	1.09
1:A:771:ILE:HD13	1:A:808:ALA:HB2	1.11	1.09
1:C:227:ILE:HD13	1:C:883:VAL:HB	1.26	1.09
1:D:464:VAL:HG21	1:D:474:VAL:HG22	1.34	1.09
1:D:1337:ILE:HG22	1:D:1355:PRO:HB3	1.29	1.09
1:C:1542:LEU:HD12	1:C:1551:ILE:HD13	1.35	1.09
1:D:498:LEU:HD21	1:D:597:ILE:HG21	1.32	1.09
1:D:1468:LYS:HE2	1:D:1468:LYS:HA	1.31	1.09
1:E:288:LEU:HD21	1:E:448:ARG:HD3	1.26	1.09
1:A:622:ILE:HG12	1:A:626:GLN:HG3	1.33	1.09
1:E:661:LYS:HD3	1:E:750:GLU:HG2	1.09	1.09
1:B:273:PRO:HB2	1:B:433:GLN:HB2	1.31	1.08
1:B:464:VAL:HG21	1:B:474:VAL:HG22	1.34	1.08
1:E:670:LEU:HG	1:E:699:THR:HG21	1.14	1.08
1:D:661:LYS:HD3	1:D:750:GLU:HG2	1.09	1.08
1:B:1312:ILE:HD11	1:B:1574:VAL:HG22	1.36	1.08
1:C:288:LEU:HD21	1:C:448:ARG:HD3	1.26	1.08
1:C:1468:LYS:HE2	1:C:1468:LYS:HA	1.31	1.08
1:D:1316:VAL:HG11	1:D:1573:PRO:HD2	1.34	1.08
1:E:771:ILE:HD13	1:E:808:ALA:HB2	1.11	1.08
1:A:260:ALA:HB1	1:A:435:SER:HB3	1.20	1.08
1:B:288:LEU:HD21	1:B:448:ARG:HD3	1.26	1.08
1:B:670:LEU:HG	1:B:699:THR:HG21	1.14	1.08
1:C:1337:ILE:HG22	1:C:1355:PRO:HB3	1.29	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1312:ILE:HD11	1:D:1574:VAL:HG22	1.35	1.08
1:E:464:VAL:HG21	1:E:474:VAL:HG22	1.34	1.08
1:E:524:LEU:HD22	1:E:549:THR:HG22	1.26	1.08
1:A:464:VAL:HG21	1:A:474:VAL:HG22	1.34	1.07
1:A:1312:ILE:HD11	1:A:1574:VAL:HG22	1.35	1.07
1:E:1312:ILE:HD11	1:E:1574:VAL:HG22	1.35	1.07
1:C:1316:VAL:HG11	1:C:1573:PRO:HD2	1.34	1.07
1:D:227:ILE:HD13	1:D:883:VAL:HB	1.26	1.07
1:E:274:ALA:HB3	1:E:1519:ILE:HD11	1.37	1.07
1:A:274:ALA:HB3	1:A:1519:ILE:HD11	1.37	1.07
1:B:218:LEU:HD11	1:B:239:ILE:HB	1.36	1.07
1:C:661:LYS:HD3	1:C:750:GLU:HG2	1.09	1.07
1:A:1320:LYS:HD2	1:A:1571:SER:HB2	1.37	1.07
1:A:1542:LEU:HD12	1:A:1551:ILE:HD13	1.35	1.07
1:C:353:TYR:HD2	1:C:397:LEU:HD13	1.11	1.07
1:B:1337:ILE:HG22	1:B:1355:PRO:HB3	1.29	1.06
1:C:273:PRO:HG2	1:C:433:GLN:HG3	1.37	1.06
1:B:498:LEU:HD21	1:B:597:ILE:HG21	1.32	1.06
1:C:1320:LYS:HD2	1:C:1571:SER:HB2	1.37	1.06
1:A:218:LEU:HD11	1:A:239:ILE:HB	1.37	1.06
1:A:661:LYS:HD3	1:A:750:GLU:HG2	1.09	1.06
1:C:273:PRO:HB2	1:C:433:GLN:HB2	1.31	1.06
1:D:273:PRO:HG2	1:D:433:GLN:HG3	1.37	1.06
1:D:1542:LEU:HD12	1:D:1551:ILE:HD13	1.35	1.06
1:E:218:LEU:HD11	1:E:239:ILE:HB	1.37	1.06
1:C:1312:ILE:HD11	1:C:1574:VAL:HG22	1.35	1.06
1:D:274:ALA:HB3	1:D:1519:ILE:HD11	1.37	1.06
1:D:622:ILE:HG12	1:D:626:GLN:HG3	1.33	1.06
1:A:498:LEU:HD21	1:A:597:ILE:HG21	1.32	1.06
1:C:654:MET:HE2	1:C:765:VAL:HG22	1.38	1.06
1:D:273:PRO:HB2	1:D:433:GLN:HB2	1.31	1.06
1:D:353:TYR:HD2	1:D:397:LEU:HD13	1.12	1.06
1:E:1316:VAL:HG11	1:E:1573:PRO:HD2	1.34	1.06
1:B:661:LYS:HD3	1:B:750:GLU:HG2	1.09	1.05
1:B:274:ALA:HB3	1:B:1519:ILE:HD11	1.37	1.05
1:E:1468:LYS:HE2	1:E:1468:LYS:HA	1.31	1.05
1:B:1542:LEU:HD12	1:B:1551:ILE:HD13	1.35	1.05
1:C:274:ALA:HB3	1:C:1519:ILE:HD11	1.37	1.05
1:E:622:ILE:HG12	1:E:626:GLN:HG3	1.33	1.05
1:B:1556:THR:HB	1:B:1564:LYS:HE3	1.38	1.05
1:C:218:LEU:HD11	1:C:239:ILE:HB	1.37	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:498:LEU:HD21	1:E:597:ILE:HG21	1.32	1.05
1:E:1542:LEU:HD12	1:E:1551:ILE:HD13	1.35	1.05
1:A:1556:THR:HB	1:A:1564:LYS:HE3	1.38	1.04
1:B:717:LYS:HB3	1:B:794:PRO:HD3	1.38	1.04
1:B:1468:LYS:HE2	1:B:1468:LYS:HA	1.31	1.04
1:B:273:PRO:HG2	1:B:433:GLN:HG3	1.37	1.04
1:C:464:VAL:HG21	1:C:474:VAL:HG22	1.34	1.04
1:B:1316:VAL:HG11	1:B:1573:PRO:HD2	1.34	1.04
1:D:218:LEU:HD11	1:D:239:ILE:HB	1.36	1.04
1:D:1320:LYS:HD2	1:D:1571:SER:HB2	1.37	1.04
1:E:273:PRO:HG2	1:E:433:GLN:HG3	1.37	1.04
1:D:569:THR:HG23	1:D:587:ASN:HB3	1.39	1.04
1:E:569:THR:HG23	1:E:587:ASN:HB3	1.38	1.03
1:B:1351:ILE:HG23	1:B:1537:ILE:HB	1.40	1.03
1:E:713:LEU:HD13	1:E:781:THR:HG22	1.38	1.03
1:E:1351:ILE:HG23	1:E:1537:ILE:HB	1.40	1.03
1:D:717:LYS:HB3	1:D:794:PRO:HD3	1.38	1.03
1:D:623:SER:HB2	1:D:626:GLN:HG2	1.40	1.03
1:D:831:THR:HG23	1:D:868:PHE:HB3	1.41	1.03
1:E:1320:LYS:HD2	1:E:1571:SER:HB2	1.37	1.03
1:A:273:PRO:HG2	1:A:433:GLN:HG3	1.37	1.02
1:A:659:TYR:CB	1:A:754:GLN:HA	1.89	1.02
1:A:831:THR:HG23	1:A:868:PHE:HB3	1.41	1.02
1:B:569:THR:HG23	1:B:587:ASN:HB3	1.38	1.02
1:B:1320:LYS:HD2	1:B:1571:SER:HB2	1.37	1.02
1:D:713:LEU:HD13	1:D:781:THR:HG22	1.38	1.02
1:E:717:LYS:HB3	1:E:794:PRO:HD3	1.38	1.02
1:A:1316:VAL:HG11	1:A:1573:PRO:HD2	1.34	1.02
1:C:713:LEU:HD13	1:C:781:THR:HG22	1.38	1.02
1:E:1556:THR:HB	1:E:1564:LYS:HE3	1.38	1.02
1:A:717:LYS:HB3	1:A:794:PRO:HD3	1.38	1.02
1:A:1351:ILE:HG23	1:A:1537:ILE:HB	1.40	1.02
1:C:659:TYR:CB	1:C:754:GLN:HA	1.89	1.02
1:C:549:THR:HA	1:C:552:LYS:HE3	1.41	1.01
1:C:831:THR:HG23	1:C:868:PHE:HB3	1.41	1.01
1:D:549:THR:HA	1:D:552:LYS:HE3	1.41	1.01
1:D:1351:ILE:HG23	1:D:1537:ILE:HB	1.40	1.01
1:D:1556:THR:HB	1:D:1564:LYS:HE3	1.38	1.01
1:A:654:MET:HE3	1:A:765:VAL:HA	1.43	1.01
1:B:623:SER:HB2	1:B:626:GLN:HG2	1.40	1.01
1:B:659:TYR:CB	1:B:754:GLN:HA	1.89	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:713:LEU:HD13	1:B:781:THR:HG22	1.38	1.01
1:D:481:THR:HG21	1:D:496:LEU:HD23	1.43	1.01
1:D:659:TYR:CB	1:D:754:GLN:HA	1.89	1.01
1:A:481:THR:HG21	1:A:496:LEU:HD23	1.43	1.01
1:A:713:LEU:HD13	1:A:781:THR:HG22	1.38	1.01
1:C:340:GLN:HG2	1:C:361:ASN:HB2	1.42	1.01
1:E:340:GLN:HG2	1:E:361:ASN:HB2	1.42	1.01
1:E:806:ARG:HD2	1:E:875:ASN:HD21	1.22	1.01
1:A:569:THR:HG23	1:A:587:ASN:HB3	1.39	1.00
1:A:623:SER:HB2	1:A:626:GLN:HG2	1.40	1.00
1:C:569:THR:HG23	1:C:587:ASN:HB3	1.39	1.00
1:C:1556:THR:HB	1:C:1564:LYS:HE3	1.38	1.00
1:D:806:ARG:HD2	1:D:875:ASN:HD21	1.22	1.00
1:A:340:GLN:HG2	1:A:361:ASN:HB2	1.42	1.00
1:A:806:ARG:HD2	1:A:875:ASN:HD21	1.22	1.00
1:B:806:ARG:HD2	1:B:875:ASN:HD21	1.22	1.00
1:C:623:SER:HB2	1:C:626:GLN:HG2	1.40	1.00
1:E:481:THR:HG21	1:E:496:LEU:HD23	1.43	1.00
1:E:659:TYR:CB	1:E:754:GLN:HA	1.89	1.00
1:C:806:ARG:HD2	1:C:875:ASN:HD21	1.22	1.00
1:C:1351:ILE:HG23	1:C:1537:ILE:HB	1.40	1.00
1:A:1459:ASP:HB3	1:A:1462:ASN:HD22	1.26	1.00
1:C:481:THR:HG21	1:C:496:LEU:HD23	1.43	1.00
1:C:717:LYS:HB3	1:C:794:PRO:HD3	1.38	1.00
1:C:1459:ASP:HB3	1:C:1462:ASN:HD22	1.26	0.99
1:D:237:LEU:HG	1:D:479:PHE:HB2	1.44	0.99
1:D:296:PHE:CE1	1:D:444:ILE:HA	1.97	0.99
1:C:296:PHE:CE1	1:C:444:ILE:HA	1.97	0.99
1:E:831:THR:HG23	1:E:868:PHE:HB3	1.41	0.99
1:A:237:LEU:HG	1:A:479:PHE:HB2	1.44	0.99
1:A:296:PHE:CE1	1:A:444:ILE:HA	1.97	0.99
1:E:549:THR:HA	1:E:552:LYS:HE3	1.41	0.99
1:B:481:THR:HG21	1:B:496:LEU:HD23	1.43	0.98
1:B:237:LEU:HG	1:B:479:PHE:HB2	1.44	0.98
1:B:1459:ASP:HB3	1:B:1462:ASN:HD22	1.26	0.98
1:B:549:THR:HA	1:B:552:LYS:HE3	1.42	0.98
1:B:831:THR:HG23	1:B:868:PHE:HB3	1.41	0.98
1:D:340:GLN:HG2	1:D:361:ASN:HB2	1.42	0.98
1:B:340:GLN:HG2	1:B:361:ASN:HB2	1.42	0.98
1:C:714:TRP:CG	1:C:762:LEU:HD21	1.99	0.98
1:E:237:LEU:HG	1:E:479:PHE:HB2	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:714:TRP:CG	1:A:762:LEU:HD21	1.99	0.98
1:B:714:TRP:CG	1:B:762:LEU:HD21	1.99	0.98
1:D:714:TRP:CG	1:D:762:LEU:HD21	1.99	0.98
1:E:623:SER:HB2	1:E:626:GLN:HG2	1.40	0.98
1:E:714:TRP:CG	1:E:762:LEU:HD21	1.99	0.98
1:B:296:PHE:CE1	1:B:444:ILE:HA	1.97	0.98
1:D:1459:ASP:HB3	1:D:1462:ASN:HD22	1.25	0.98
1:E:296:PHE:CE1	1:E:444:ILE:HA	1.98	0.98
1:A:549:THR:HA	1:A:552:LYS:HE3	1.41	0.97
1:E:622:ILE:HG23	1:E:627:LEU:HD11	1.46	0.97
1:A:341:MET:HE2	1:A:422:ALA:HB3	1.47	0.96
1:B:341:MET:HE1	1:B:410:LEU:HB2	1.46	0.96
1:E:1459:ASP:HB3	1:E:1462:ASN:HD22	1.26	0.96
1:D:622:ILE:HG23	1:D:627:LEU:HD11	1.46	0.96
1:E:260:ALA:CB	1:E:435:SER:HB3	1.96	0.96
1:C:237:LEU:HG	1:C:479:PHE:HB2	1.44	0.96
1:B:555:PHE:HE1	1:B:589:TYR:HD1	1.14	0.96
1:C:555:PHE:HE1	1:C:589:TYR:HD1	1.13	0.96
1:B:622:ILE:HG23	1:B:627:LEU:HD11	1.46	0.95
1:A:260:ALA:CB	1:A:435:SER:HB3	1.96	0.95
1:B:353:TYR:CD2	1:B:397:LEU:HD13	2.01	0.95
1:C:260:ALA:CB	1:C:435:SER:HB3	1.96	0.95
1:D:260:ALA:CB	1:D:435:SER:HB3	1.96	0.95
1:D:353:TYR:CD2	1:D:397:LEU:HD13	2.01	0.95
1:B:260:ALA:CB	1:B:435:SER:HB3	1.96	0.95
1:A:555:PHE:HE1	1:A:589:TYR:HD1	1.14	0.94
1:C:353:TYR:CD2	1:C:397:LEU:HD13	2.01	0.94
1:E:670:LEU:HG	1:E:699:THR:CG2	1.98	0.94
1:D:661:LYS:HD3	1:D:750:GLU:CG	1.98	0.94
1:A:353:TYR:CD2	1:A:397:LEU:HD13	2.01	0.94
1:E:341:MET:HE2	1:E:422:ALA:HB3	1.49	0.94
1:E:353:TYR:CD2	1:E:397:LEU:HD13	2.01	0.94
1:C:622:ILE:HG23	1:C:627:LEU:HD11	1.46	0.94
1:A:661:LYS:HD3	1:A:750:GLU:CG	1.98	0.94
1:B:670:LEU:HG	1:B:699:THR:CG2	1.98	0.94
1:C:341:MET:HE2	1:C:422:ALA:HB3	1.49	0.94
1:E:274:ALA:HB3	1:E:1519:ILE:CD1	1.98	0.94
1:D:251:LEU:HD11	1:D:470:ILE:HG22	1.50	0.93
1:C:274:ALA:HB3	1:C:1519:ILE:CD1	1.98	0.93
1:B:274:ALA:HB3	1:B:1519:ILE:CD1	1.98	0.93
1:A:622:ILE:HG23	1:A:627:LEU:HD11	1.46	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:670:LEU:HG	1:D:699:THR:CG2	1.98	0.93
1:B:557:ILE:CD1	1:B:565:LEU:HD11	1.98	0.93
1:C:557:ILE:CD1	1:C:565:LEU:HD11	1.99	0.93
1:C:661:LYS:HD3	1:C:750:GLU:CG	1.98	0.93
1:D:557:ILE:CD1	1:D:565:LEU:HD11	1.98	0.93
1:A:251:LEU:HD11	1:A:470:ILE:HG22	1.51	0.93
1:A:274:ALA:HB3	1:A:1519:ILE:CD1	1.98	0.93
1:A:670:LEU:HG	1:A:699:THR:CG2	1.98	0.93
1:B:661:LYS:HD3	1:B:750:GLU:CG	1.98	0.93
1:E:557:ILE:CD1	1:E:565:LEU:HD11	1.99	0.93
1:A:771:ILE:CD1	1:A:808:ALA:HB2	1.99	0.93
1:C:670:LEU:HG	1:C:699:THR:CG2	1.98	0.93
1:D:555:PHE:HE1	1:D:589:TYR:HD1	1.13	0.93
1:E:661:LYS:HD3	1:E:750:GLU:CG	1.98	0.93
1:C:218:LEU:HD11	1:C:239:ILE:CB	2.00	0.92
1:E:218:LEU:HD11	1:E:239:ILE:CB	2.00	0.92
1:A:1391:LEU:CD2	1:A:1483:VAL:HG12	1.99	0.92
1:C:251:LEU:HD11	1:C:470:ILE:HG22	1.51	0.92
1:D:274:ALA:HB3	1:D:1519:ILE:CD1	1.98	0.92
1:A:557:ILE:CD1	1:A:565:LEU:HD11	1.99	0.92
1:E:555:PHE:HE1	1:E:589:TYR:HD1	1.13	0.92
1:E:557:ILE:HD11	1:E:592:LYS:CD	1.99	0.92
1:A:557:ILE:HD11	1:A:592:LYS:CD	1.99	0.92
1:C:368:LEU:HB3	1:C:381:THR:HG22	1.51	0.92
1:D:557:ILE:HD11	1:D:592:LYS:CD	1.99	0.92
1:E:288:LEU:HD21	1:E:448:ARG:CD	1.99	0.92
1:B:368:LEU:HB3	1:B:381:THR:HG22	1.51	0.92
1:B:218:LEU:HD11	1:B:239:ILE:CB	2.00	0.92
1:B:288:LEU:HD21	1:B:448:ARG:CD	1.99	0.92
1:D:341:MET:HE2	1:D:422:ALA:HB3	1.51	0.91
1:B:557:ILE:HD11	1:B:592:LYS:CD	1.99	0.91
1:B:661:LYS:HA	1:B:753:VAL:HG21	1.52	0.91
1:C:557:ILE:HD11	1:C:592:LYS:CD	1.99	0.91
1:C:661:LYS:HA	1:C:753:VAL:HG21	1.52	0.91
1:C:1391:LEU:CD2	1:C:1483:VAL:HG12	1.99	0.91
1:D:521:THR:HB	1:D:522:PRO:HD3	1.53	0.91
1:D:771:ILE:CD1	1:D:808:ALA:HB2	1.99	0.91
1:A:288:LEU:HD21	1:A:448:ARG:CD	1.99	0.91
1:D:218:LEU:HD11	1:D:239:ILE:CB	2.00	0.91
1:A:218:LEU:HD11	1:A:239:ILE:CB	2.00	0.91
1:B:1391:LEU:CD2	1:B:1483:VAL:HG12	1.99	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:288:LEU:HD21	1:D:448:ARG:CD	1.99	0.91
1:D:1391:LEU:CD2	1:D:1483:VAL:HG12	2.00	0.91
1:D:341:MET:CE	1:D:410:LEU:HB2	2.01	0.91
1:E:251:LEU:HD11	1:E:470:ILE:HG22	1.51	0.91
1:B:1490:ASN:HB3	1:B:1560:GLU:HB3	1.53	0.91
1:D:218:LEU:CD2	1:D:239:ILE:HG21	2.01	0.91
1:C:341:MET:CE	1:C:410:LEU:HB2	2.01	0.91
1:E:771:ILE:CD1	1:E:808:ALA:HB2	1.99	0.91
1:E:1391:LEU:CD2	1:E:1483:VAL:HG12	2.00	0.91
1:B:218:LEU:CD2	1:B:239:ILE:HG21	2.01	0.91
1:C:778:LEU:HD21	1:C:785:MET:SD	2.11	0.91
1:C:288:LEU:HD21	1:C:448:ARG:CD	1.99	0.90
1:A:825:PHE:CE1	1:A:871:TRP:HB2	2.06	0.90
1:B:264:TYR:CB	1:B:434:TYR:HB3	2.02	0.90
1:D:789:ALA:HB3	1:D:792:ALA:HB3	1.53	0.90
1:E:1490:ASN:HB3	1:E:1560:GLU:HB3	1.53	0.90
1:A:1490:ASN:HB3	1:A:1560:GLU:HB3	1.53	0.90
1:B:1351:ILE:CG2	1:B:1537:ILE:HB	2.02	0.90
1:C:661:LYS:CD	1:C:750:GLU:HG2	2.01	0.90
1:C:771:ILE:CD1	1:C:808:ALA:HB2	1.99	0.90
1:C:1351:ILE:CG2	1:C:1537:ILE:HB	2.01	0.90
1:D:264:TYR:CB	1:D:434:TYR:HB3	2.01	0.90
1:D:778:LEU:HD21	1:D:785:MET:SD	2.11	0.90
1:E:661:LYS:HA	1:E:753:VAL:HG21	1.52	0.90
1:B:771:ILE:CD1	1:B:808:ALA:HB2	1.99	0.90
1:B:778:LEU:HD21	1:B:785:MET:SD	2.11	0.90
1:D:557:ILE:HD13	1:D:565:LEU:HD11	1.53	0.90
1:D:661:LYS:HA	1:D:753:VAL:HG21	1.52	0.90
1:D:1351:ILE:CG2	1:D:1537:ILE:HB	2.02	0.90
1:A:521:THR:HB	1:A:522:PRO:HD3	1.53	0.90
1:A:557:ILE:HD13	1:A:565:LEU:HD11	1.54	0.90
1:A:833:GLU:HG2	1:A:843:ALA:HB1	1.54	0.90
1:B:825:PHE:CE1	1:B:871:TRP:HB2	2.06	0.90
1:B:833:GLU:HG2	1:B:843:ALA:HB1	1.54	0.90
1:B:1471:ILE:HB	1:B:1483:VAL:HG21	1.54	0.90
1:C:557:ILE:HD13	1:C:565:LEU:HD11	1.54	0.90
1:D:825:PHE:CE1	1:D:871:TRP:HB2	2.06	0.90
1:E:833:GLU:HG2	1:E:843:ALA:HB1	1.54	0.90
1:A:218:LEU:CD2	1:A:239:ILE:HG21	2.01	0.90
1:C:1490:ASN:HB3	1:C:1560:GLU:HB3	1.53	0.90
1:E:341:MET:CE	1:E:410:LEU:HB2	2.01	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:778:LEU:HD21	1:A:785:MET:SD	2.11	0.90
1:B:557:ILE:HD13	1:B:565:LEU:HD11	1.54	0.90
1:C:825:PHE:CE1	1:C:871:TRP:HB2	2.06	0.90
1:D:1471:ILE:HB	1:D:1483:VAL:HG21	1.54	0.90
1:E:536:ILE:HB	1:E:578:ILE:CG1	2.02	0.90
1:E:789:ALA:HB3	1:E:792:ALA:HB3	1.53	0.90
1:A:264:TYR:CB	1:A:434:TYR:HB3	2.02	0.90
1:A:341:MET:CE	1:A:410:LEU:HB2	2.01	0.90
1:A:482:LYS:HA	1:A:485:MET:HE3	1.54	0.90
1:A:1351:ILE:CG2	1:A:1537:ILE:HB	2.02	0.90
1:D:368:LEU:HB3	1:D:381:THR:HG22	1.51	0.90
1:D:833:GLU:HG2	1:D:843:ALA:HB1	1.54	0.90
1:E:557:ILE:HD13	1:E:565:LEU:HD11	1.54	0.90
1:B:521:THR:HB	1:B:522:PRO:HD3	1.53	0.90
1:B:536:ILE:HB	1:B:578:ILE:CG1	2.02	0.90
1:A:789:ALA:HB3	1:A:792:ALA:HB3	1.53	0.89
1:A:849:ALA:HB3	1:A:877:ILE:HG23	1.54	0.89
1:E:778:LEU:HD21	1:E:785:MET:SD	2.11	0.89
1:E:264:TYR:CB	1:E:434:TYR:HB3	2.02	0.89
1:E:368:LEU:HB3	1:E:381:THR:HG22	1.51	0.89
1:A:368:LEU:HB3	1:A:381:THR:HG22	1.51	0.89
1:A:661:LYS:HA	1:A:753:VAL:HG21	1.52	0.89
1:A:771:ILE:HD13	1:A:808:ALA:CB	2.02	0.89
1:C:539:ASN:HA	1:C:563:PHE:CD1	2.08	0.89
1:E:849:ALA:HB3	1:E:877:ILE:HG23	1.55	0.89
1:E:1351:ILE:CG2	1:E:1537:ILE:HB	2.02	0.89
1:B:341:MET:CE	1:B:410:LEU:HB2	2.01	0.89
1:E:218:LEU:CD2	1:E:239:ILE:HG21	2.01	0.89
1:E:825:PHE:CE1	1:E:871:TRP:HB2	2.06	0.89
1:A:536:ILE:HB	1:A:578:ILE:CG1	2.02	0.89
1:B:251:LEU:HD11	1:B:470:ILE:HG22	1.51	0.89
1:B:539:ASN:HA	1:B:563:PHE:CD1	2.08	0.89
1:C:218:LEU:CD2	1:C:239:ILE:HG21	2.01	0.89
1:C:264:TYR:CB	1:C:434:TYR:HB3	2.02	0.89
1:C:833:GLU:HG2	1:C:843:ALA:HB1	1.54	0.89
1:D:276:LEU:HD23	1:D:437:LEU:HD12	1.54	0.89
1:D:659:TYR:HB3	1:D:754:GLN:HA	1.54	0.89
1:B:661:LYS:CD	1:B:750:GLU:HG2	2.01	0.89
1:C:1471:ILE:HB	1:C:1483:VAL:HG21	1.53	0.89
1:D:536:ILE:HB	1:D:578:ILE:CG1	2.02	0.89
1:D:539:ASN:HA	1:D:563:PHE:CD1	2.08	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:659:TYR:HB3	1:E:754:GLN:HA	1.54	0.89
1:A:446:LEU:HD11	1:A:470:ILE:HD13	1.55	0.89
1:A:539:ASN:HA	1:A:563:PHE:CD1	2.08	0.89
1:B:849:ALA:HB3	1:B:877:ILE:HG23	1.54	0.89
1:D:1490:ASN:HB3	1:D:1560:GLU:HB3	1.53	0.89
1:C:341:MET:CE	1:C:422:ALA:HB3	2.03	0.89
1:C:435:SER:HA	1:C:438:LEU:HD13	1.54	0.89
1:C:771:ILE:HD13	1:C:808:ALA:CB	2.02	0.89
1:B:341:MET:CE	1:B:422:ALA:HB3	2.03	0.89
1:C:789:ALA:HB3	1:C:792:ALA:HB3	1.53	0.89
1:E:435:SER:HA	1:E:438:LEU:HD13	1.53	0.89
1:E:521:THR:HB	1:E:522:PRO:HD3	1.53	0.89
1:E:539:ASN:HA	1:E:563:PHE:CD1	2.08	0.89
1:E:1316:VAL:HG21	1:E:1573:PRO:N	1.88	0.89
1:A:276:LEU:HD23	1:A:437:LEU:HD12	1.54	0.88
1:A:340:GLN:HG2	1:A:361:ASN:CB	2.03	0.88
1:A:1312:ILE:HD12	1:A:1574:VAL:HA	1.56	0.88
1:D:849:ALA:HB3	1:D:877:ILE:HG23	1.55	0.88
1:E:1471:ILE:HB	1:E:1483:VAL:HG21	1.53	0.88
1:A:661:LYS:CD	1:A:750:GLU:HG2	2.01	0.88
1:B:654:MET:HE1	1:B:765:VAL:HA	1.54	0.88
1:C:340:GLN:HG2	1:C:361:ASN:CB	2.04	0.88
1:C:1498:VAL:HG23	1:C:1557:ALA:CB	2.04	0.88
1:E:341:MET:CE	1:E:422:ALA:HB3	2.03	0.88
1:D:341:MET:CE	1:D:422:ALA:HB3	2.03	0.88
1:B:446:LEU:HD11	1:B:470:ILE:HD13	1.55	0.88
1:C:1316:VAL:HG21	1:C:1573:PRO:N	1.88	0.88
1:D:435:SER:HA	1:D:438:LEU:HD13	1.54	0.88
1:B:1498:VAL:HG23	1:B:1557:ALA:CB	2.04	0.88
1:C:446:LEU:HD11	1:C:470:ILE:HD13	1.55	0.88
1:D:622:ILE:HG23	1:D:627:LEU:CD1	2.04	0.88
1:E:276:LEU:HD23	1:E:437:LEU:HD12	1.54	0.88
1:A:435:SER:HA	1:A:438:LEU:HD13	1.53	0.88
1:A:622:ILE:HG23	1:A:627:LEU:CD1	2.04	0.88
1:B:771:ILE:HD13	1:B:808:ALA:CB	2.02	0.88
1:B:1312:ILE:HD12	1:B:1574:VAL:HA	1.56	0.88
1:C:276:LEU:HD23	1:C:437:LEU:HD12	1.54	0.88
1:C:536:ILE:HB	1:C:578:ILE:CG1	2.02	0.88
1:C:659:TYR:HB3	1:C:754:GLN:HA	1.54	0.88
1:D:1498:VAL:HG23	1:D:1557:ALA:CB	2.04	0.88
1:A:1471:ILE:HB	1:A:1483:VAL:HG21	1.53	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:340:GLN:HG2	1:E:361:ASN:CB	2.04	0.88
1:A:1471:ILE:HB	1:A:1483:VAL:CG2	2.04	0.88
1:B:1316:VAL:HG21	1:B:1573:PRO:N	1.89	0.88
1:D:771:ILE:HD13	1:D:808:ALA:CB	2.02	0.88
1:A:659:TYR:HB3	1:A:754:GLN:HA	1.54	0.87
1:B:789:ALA:HB3	1:B:792:ALA:HB3	1.53	0.87
1:C:521:THR:HB	1:C:522:PRO:HD3	1.53	0.87
1:E:1312:ILE:HD12	1:E:1574:VAL:HA	1.55	0.87
1:A:341:MET:CE	1:A:422:ALA:HB3	2.03	0.87
1:A:1498:VAL:HG23	1:A:1557:ALA:CB	2.04	0.87
1:C:244:SER:HB3	1:C:245:PRO:HD2	1.56	0.87
1:B:659:TYR:HB3	1:B:754:GLN:HA	1.54	0.87
1:E:1498:VAL:HG23	1:E:1557:ALA:CB	2.04	0.87
1:A:259:ASN:HB3	1:A:263:LEU:HD13	1.56	0.87
1:C:849:ALA:HB3	1:C:877:ILE:HG23	1.54	0.87
1:C:1312:ILE:HD12	1:C:1574:VAL:HA	1.56	0.87
1:E:259:ASN:HB3	1:E:263:LEU:HD13	1.56	0.87
1:E:654:MET:HE3	1:E:765:VAL:CA	2.03	0.87
1:A:244:SER:HB3	1:A:245:PRO:HD2	1.56	0.87
1:E:1471:ILE:HB	1:E:1483:VAL:CG2	2.04	0.87
1:A:1316:VAL:HG21	1:A:1573:PRO:N	1.88	0.87
1:D:340:GLN:HG2	1:D:361:ASN:CB	2.04	0.87
1:D:482:LYS:HA	1:D:485:MET:CE	2.05	0.87
1:D:446:LEU:HD11	1:D:470:ILE:HD13	1.55	0.87
1:D:714:TRP:CD2	1:D:762:LEU:HD21	2.09	0.87
1:D:1471:ILE:HB	1:D:1483:VAL:CG2	2.05	0.87
1:E:446:LEU:HD11	1:E:470:ILE:HD13	1.55	0.87
1:E:482:LYS:HA	1:E:485:MET:CE	2.05	0.87
1:B:340:GLN:HG2	1:B:361:ASN:CB	2.04	0.87
1:E:622:ILE:HG23	1:E:627:LEU:CD1	2.04	0.87
1:B:1471:ILE:HB	1:B:1483:VAL:CG2	2.05	0.86
1:C:341:MET:HE1	1:C:410:LEU:HB2	1.56	0.86
1:D:1312:ILE:HD12	1:D:1574:VAL:HA	1.56	0.86
1:E:714:TRP:CD2	1:E:762:LEU:HD21	2.09	0.86
1:A:714:TRP:CD2	1:A:762:LEU:HD21	2.09	0.86
1:B:259:ASN:HB3	1:B:263:LEU:HD13	1.56	0.86
1:B:622:ILE:HG23	1:B:627:LEU:CD1	2.04	0.86
1:B:733:TRP:CZ3	1:B:734:LEU:HD23	2.10	0.86
1:C:1316:VAL:CG1	1:C:1573:PRO:HD2	2.04	0.86
1:C:1471:ILE:HB	1:C:1483:VAL:CG2	2.04	0.86
1:D:1316:VAL:CG1	1:D:1573:PRO:HD2	2.04	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:733:TRP:CZ3	1:C:734:LEU:HD23	2.10	0.86
1:C:1353:ILE:CG2	1:C:1355:PRO:HD3	2.05	0.86
1:E:341:MET:HE1	1:E:410:LEU:HB2	1.57	0.86
1:A:1316:VAL:CG1	1:A:1573:PRO:HD2	2.04	0.86
1:B:435:SER:HA	1:B:438:LEU:HD13	1.54	0.86
1:B:1316:VAL:CG1	1:B:1573:PRO:HD2	2.04	0.86
1:E:1316:VAL:CG1	1:E:1573:PRO:HD2	2.04	0.86
1:C:714:TRP:CD2	1:C:762:LEU:HD21	2.09	0.86
1:D:876:THR:O	1:D:879:GLN:HG2	1.76	0.86
1:E:876:THR:O	1:E:879:GLN:HG2	1.76	0.86
1:B:276:LEU:HD23	1:B:437:LEU:HD12	1.54	0.86
1:C:876:THR:O	1:C:879:GLN:HG2	1.76	0.86
1:D:1316:VAL:HG21	1:D:1573:PRO:N	1.88	0.86
1:A:733:TRP:CZ3	1:A:734:LEU:HD23	2.10	0.86
1:B:714:TRP:CD2	1:B:762:LEU:HD21	2.09	0.86
1:D:244:SER:HB3	1:D:245:PRO:HD2	1.56	0.86
1:D:259:ASN:HB3	1:D:263:LEU:HD13	1.56	0.86
1:D:1353:ILE:CG2	1:D:1355:PRO:HD3	2.05	0.86
1:E:244:SER:HB3	1:E:245:PRO:HD2	1.56	0.86
1:E:733:TRP:CZ3	1:E:734:LEU:HD23	2.10	0.86
1:A:670:LEU:CG	1:A:699:THR:HG21	2.05	0.86
1:C:622:ILE:HG23	1:C:627:LEU:CD1	2.04	0.86
1:B:482:LYS:HA	1:B:485:MET:CE	2.05	0.86
1:A:876:THR:O	1:A:879:GLN:HG2	1.76	0.86
1:C:259:ASN:HB3	1:C:263:LEU:HD13	1.56	0.86
1:D:482:LYS:HA	1:D:485:MET:HE3	1.55	0.85
1:A:482:LYS:HA	1:A:485:MET:CE	2.05	0.85
1:C:482:LYS:HA	1:C:485:MET:CE	2.05	0.85
1:D:341:MET:HE1	1:D:410:LEU:HB2	1.55	0.85
1:E:771:ILE:HD13	1:E:808:ALA:CB	2.02	0.85
1:B:876:THR:O	1:B:879:GLN:HG2	1.76	0.85
1:B:1387:VAL:HG12	1:B:1407:VAL:HG23	1.58	0.85
1:C:825:PHE:HE1	1:C:871:TRP:HB2	1.40	0.85
1:A:1503:LYS:HB3	1:A:1552:ASP:HB2	1.58	0.85
1:A:308:TYR:CE1	1:A:313:LEU:HB2	2.12	0.85
1:A:1353:ILE:CG2	1:A:1355:PRO:HD3	2.05	0.85
1:D:230:LEU:HG	1:D:856:HIS:CB	2.06	0.85
1:D:733:TRP:CZ3	1:D:734:LEU:HD23	2.10	0.85
1:D:1387:VAL:HG12	1:D:1407:VAL:HG23	1.58	0.85
1:E:230:LEU:HG	1:E:856:HIS:CB	2.06	0.85
1:B:611:ALA:HB2	1:B:652:PHE:HD1	1.42	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1386:ILE:HG13	1:B:1410:TYR:HE1	1.41	0.85
1:A:717:LYS:HB3	1:A:794:PRO:CD	2.06	0.85
1:B:341:MET:HE2	1:B:422:ALA:HB3	1.59	0.85
1:C:498:LEU:CD2	1:C:597:ILE:HG21	2.06	0.85
1:D:1503:LYS:HB3	1:D:1552:ASP:HB2	1.58	0.85
1:E:1387:VAL:HG12	1:E:1407:VAL:HG23	1.58	0.85
1:C:498:LEU:HD21	1:C:597:ILE:CG2	2.07	0.85
1:E:1503:LYS:HB3	1:E:1552:ASP:HB2	1.59	0.85
1:A:623:SER:O	1:A:627:LEU:HD12	1.77	0.85
1:E:670:LEU:CG	1:E:699:THR:HG21	2.05	0.85
1:E:717:LYS:HB3	1:E:794:PRO:CD	2.06	0.85
1:A:353:TYR:HE2	1:A:397:LEU:HB2	1.42	0.85
1:B:308:TYR:CE1	1:B:313:LEU:HB2	2.12	0.85
1:D:1386:ILE:HG13	1:D:1410:TYR:HE1	1.41	0.85
1:E:1386:ILE:HG13	1:E:1410:TYR:HE1	1.41	0.85
1:A:611:ALA:HB2	1:A:652:PHE:HD1	1.42	0.84
1:C:611:ALA:HB2	1:C:652:PHE:HD1	1.42	0.84
1:D:263:LEU:C	1:D:438:LEU:HD21	1.98	0.84
1:D:308:TYR:CE1	1:D:313:LEU:HB2	2.12	0.84
1:E:661:LYS:CD	1:E:750:GLU:HG2	2.01	0.84
1:A:498:LEU:HD21	1:A:597:ILE:CG2	2.07	0.84
1:A:611:ALA:HB2	1:A:652:PHE:CD1	2.13	0.84
1:A:1386:ILE:HG13	1:A:1410:TYR:HE1	1.41	0.84
1:B:717:LYS:HB3	1:B:794:PRO:CD	2.06	0.84
1:C:1387:VAL:HG12	1:C:1407:VAL:HG23	1.58	0.84
1:E:498:LEU:CD2	1:E:597:ILE:HG21	2.06	0.84
1:E:623:SER:O	1:E:627:LEU:HD12	1.77	0.84
1:B:244:SER:HB3	1:B:245:PRO:HD2	1.56	0.84
1:D:825:PHE:HE1	1:D:871:TRP:HB2	1.41	0.84
1:E:654:MET:HE2	1:E:765:VAL:HG22	1.60	0.84
1:C:230:LEU:HG	1:C:856:HIS:CB	2.06	0.84
1:C:308:TYR:CE1	1:C:313:LEU:HB2	2.12	0.84
1:D:654:MET:HE2	1:D:765:VAL:CG2	2.07	0.84
1:E:498:LEU:HD21	1:E:597:ILE:CG2	2.07	0.84
1:A:264:TYR:CG	1:A:434:TYR:HB3	2.13	0.84
1:D:623:SER:O	1:D:627:LEU:HD12	1.77	0.84
1:D:654:MET:HE3	1:D:765:VAL:HA	1.57	0.84
1:E:308:TYR:CE1	1:E:313:LEU:HB2	2.12	0.84
1:A:515:PHE:CE2	1:A:530:SER:HB2	2.13	0.84
1:D:717:LYS:HB3	1:D:794:PRO:CD	2.06	0.84
1:A:263:LEU:C	1:A:438:LEU:HD21	1.98	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:515:PHE:CE2	1:B:530:SER:HB2	2.13	0.84
1:B:623:SER:O	1:B:627:LEU:HD12	1.77	0.84
1:D:515:PHE:CE2	1:D:530:SER:HB2	2.13	0.84
1:D:670:LEU:CG	1:D:699:THR:HG21	2.05	0.84
1:E:1353:ILE:CG2	1:E:1355:PRO:HD3	2.05	0.84
1:B:498:LEU:HD21	1:B:597:ILE:CG2	2.07	0.84
1:B:1503:LYS:HB3	1:B:1552:ASP:HB2	1.58	0.84
1:D:611:ALA:HB2	1:D:652:PHE:CD1	2.13	0.84
1:E:611:ALA:HB2	1:E:652:PHE:CD1	2.13	0.84
1:A:498:LEU:CD2	1:A:597:ILE:HG21	2.07	0.83
1:B:498:LEU:HD11	1:B:593:LEU:HD23	1.60	0.83
1:C:1386:ILE:HG13	1:C:1410:TYR:HE1	1.41	0.83
1:E:353:TYR:HE2	1:E:397:LEU:HB2	1.42	0.83
1:E:515:PHE:CE2	1:E:530:SER:HB2	2.13	0.83
1:E:1360:ILE:HD11	1:E:1527:GLU:HG3	1.60	0.83
1:B:498:LEU:CD2	1:B:597:ILE:HG21	2.07	0.83
1:C:264:TYR:CG	1:C:434:TYR:HB3	2.13	0.83
1:C:623:SER:O	1:C:627:LEU:HD12	1.77	0.83
1:C:1503:LYS:HB3	1:C:1552:ASP:HB2	1.58	0.83
1:D:296:PHE:CZ	1:D:447:SER:HB2	2.13	0.83
1:D:353:TYR:HE2	1:D:397:LEU:HB2	1.42	0.83
1:D:1360:ILE:HD11	1:D:1527:GLU:HG3	1.60	0.83
1:E:264:TYR:CG	1:E:434:TYR:HB3	2.13	0.83
1:A:1500:ILE:HD11	1:A:1532:PHE:CE1	2.14	0.83
1:D:1500:ILE:HD11	1:D:1532:PHE:CE1	2.14	0.83
1:B:230:LEU:HG	1:B:856:HIS:CB	2.06	0.83
1:B:264:TYR:CG	1:B:434:TYR:HB3	2.13	0.83
1:B:611:ALA:HB2	1:B:652:PHE:CD1	2.13	0.83
1:C:611:ALA:HB2	1:C:652:PHE:CD1	2.13	0.83
1:D:498:LEU:HD21	1:D:597:ILE:CG2	2.06	0.83
1:D:733:TRP:CE3	1:D:734:LEU:HD23	2.14	0.83
1:D:1316:VAL:HB	1:D:1572:ILE:HA	1.59	0.83
1:E:263:LEU:C	1:E:438:LEU:HD21	1.98	0.83
1:E:296:PHE:CZ	1:E:447:SER:HB2	2.13	0.83
1:C:263:LEU:C	1:C:438:LEU:HD21	1.98	0.83
1:C:515:PHE:CE2	1:C:530:SER:HB2	2.13	0.83
1:C:524:LEU:HD11	1:C:550:ILE:CA	2.09	0.83
1:C:1316:VAL:HB	1:C:1572:ILE:HA	1.59	0.83
1:C:1500:ILE:HD11	1:C:1532:PHE:CE1	2.13	0.83
1:D:498:LEU:CD2	1:D:597:ILE:HG21	2.06	0.83
1:A:230:LEU:HG	1:A:856:HIS:CB	2.06	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:612:VAL:HG21	1:A:633:LYS:HE2	1.61	0.83
1:B:402:ILE:HG23	1:B:428:VAL:CG1	2.09	0.83
1:B:825:PHE:HE1	1:B:871:TRP:HB2	1.40	0.83
1:B:1353:ILE:CG2	1:B:1355:PRO:HD3	2.05	0.83
1:C:717:LYS:HB3	1:C:794:PRO:CD	2.06	0.83
1:E:612:VAL:HG21	1:E:633:LYS:HE2	1.61	0.83
1:A:341:MET:HE1	1:A:410:LEU:HB2	1.60	0.83
1:A:402:ILE:HG23	1:A:428:VAL:CG1	2.09	0.83
1:A:825:PHE:HE1	1:A:871:TRP:HB2	1.40	0.83
1:B:296:PHE:CZ	1:B:447:SER:HB2	2.13	0.83
1:B:536:ILE:HB	1:B:578:ILE:HG12	1.61	0.83
1:C:402:ILE:HG23	1:C:428:VAL:CG1	2.09	0.83
1:C:498:LEU:HD11	1:C:593:LEU:HD23	1.60	0.83
1:E:524:LEU:HD11	1:E:550:ILE:CA	2.09	0.83
1:C:353:TYR:HE2	1:C:397:LEU:HB2	1.42	0.83
1:C:481:THR:HG21	1:C:496:LEU:CD2	2.08	0.83
1:C:612:VAL:HG21	1:C:633:LYS:HE2	1.61	0.83
1:B:353:TYR:HE2	1:B:397:LEU:HB2	1.42	0.83
1:E:446:LEU:HD11	1:E:470:ILE:CD1	2.09	0.83
1:A:733:TRP:CE3	1:A:734:LEU:HD23	2.14	0.83
1:A:1387:VAL:HG12	1:A:1407:VAL:HG23	1.58	0.83
1:D:402:ILE:HG23	1:D:428:VAL:CG1	2.09	0.83
1:D:433:GLN:O	1:D:437:LEU:HD23	1.79	0.83
1:E:733:TRP:CE3	1:E:734:LEU:HD23	2.14	0.83
1:A:296:PHE:CZ	1:A:447:SER:HB2	2.13	0.82
1:B:524:LEU:HD11	1:B:550:ILE:CA	2.09	0.82
1:B:1500:ILE:HD11	1:B:1532:PHE:CE1	2.13	0.82
1:C:670:LEU:CG	1:C:699:THR:HG21	2.05	0.82
1:C:733:TRP:CE3	1:C:734:LEU:HD23	2.14	0.82
1:D:446:LEU:HD11	1:D:470:ILE:CD1	2.09	0.82
1:E:481:THR:HG21	1:E:496:LEU:CD2	2.08	0.82
1:E:1500:ILE:HD11	1:E:1532:PHE:CE1	2.14	0.82
1:B:297:ILE:HG22	1:B:440:LEU:HD21	1.62	0.82
1:C:1542:LEU:CD2	1:C:1549:ALA:HB1	2.10	0.82
1:B:263:LEU:C	1:B:438:LEU:HD21	1.98	0.82
1:D:264:TYR:CG	1:D:434:TYR:HB3	2.13	0.82
1:D:661:LYS:CD	1:D:750:GLU:HG2	2.01	0.82
1:E:1316:VAL:HB	1:E:1572:ILE:HA	1.59	0.82
1:B:446:LEU:HD11	1:B:470:ILE:CD1	2.09	0.82
1:B:481:THR:HG21	1:B:496:LEU:CD2	2.08	0.82
1:B:1360:ILE:HD11	1:B:1527:GLU:HG3	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:446:LEU:HD11	1:C:470:ILE:CD1	2.09	0.82
1:A:524:LEU:HD11	1:A:550:ILE:CA	2.09	0.82
1:A:433:GLN:O	1:A:437:LEU:HD23	1.79	0.82
1:C:1337:ILE:CG2	1:C:1355:PRO:HB3	2.10	0.82
1:D:515:PHE:HE1	1:D:585:LEU:HD13	1.45	0.82
1:D:524:LEU:HD11	1:D:550:ILE:CA	2.09	0.82
1:A:498:LEU:HD11	1:A:593:LEU:HD23	1.60	0.82
1:B:1316:VAL:HB	1:B:1572:ILE:HA	1.59	0.82
1:B:1337:ILE:CG2	1:B:1355:PRO:HB3	2.10	0.82
1:C:296:PHE:CZ	1:C:447:SER:HB2	2.13	0.82
1:C:433:GLN:O	1:C:437:LEU:HD23	1.79	0.82
1:B:612:VAL:HG21	1:B:633:LYS:HE2	1.61	0.82
1:C:852:GLN:HB3	1:C:880:TRP:CH2	2.14	0.82
1:D:481:THR:HG21	1:D:496:LEU:CD2	2.08	0.82
1:D:1542:LEU:CD2	1:D:1549:ALA:HB1	2.10	0.82
1:E:825:PHE:HE1	1:E:871:TRP:HB2	1.40	0.82
1:A:1316:VAL:HB	1:A:1572:ILE:HA	1.59	0.82
1:A:1360:ILE:HD11	1:A:1527:GLU:HG3	1.60	0.82
1:C:1360:ILE:HD11	1:C:1527:GLU:HG3	1.60	0.82
1:E:498:LEU:HD11	1:E:593:LEU:HD23	1.60	0.82
1:A:590:ILE:HB	1:A:619:LEU:HD13	1.62	0.82
1:A:1340:ILE:HG21	1:A:1351:ILE:HD11	1.62	0.82
1:B:337:ASN:HD22	1:B:422:ALA:HB2	1.45	0.82
1:B:515:PHE:HE1	1:B:585:LEU:HD13	1.45	0.82
1:E:590:ILE:HB	1:E:619:LEU:HD13	1.62	0.82
1:D:515:PHE:CE1	1:D:585:LEU:HD13	2.15	0.81
1:D:612:VAL:HG21	1:D:633:LYS:HE2	1.61	0.81
1:E:433:GLN:O	1:E:437:LEU:HD23	1.79	0.81
1:E:1406:PRO:CG	1:E:1473:MET:HE1	2.10	0.81
1:B:852:GLN:HB3	1:B:880:TRP:CH2	2.14	0.81
1:D:1340:ILE:HG21	1:D:1351:ILE:HD11	1.62	0.81
1:E:515:PHE:CE1	1:E:585:LEU:HD13	2.16	0.81
1:E:1517:VAL:HA	1:E:1531:GLN:O	1.80	0.81
1:A:337:ASN:HD22	1:A:422:ALA:HB2	1.46	0.81
1:A:446:LEU:HD11	1:A:470:ILE:CD1	2.09	0.81
1:B:515:PHE:CE1	1:B:585:LEU:HD13	2.16	0.81
1:B:1576:LEU:HG	1:B:1577:LYS:H	1.45	0.81
1:C:536:ILE:HB	1:C:578:ILE:HG12	1.61	0.81
1:C:590:ILE:HB	1:C:619:LEU:HD13	1.62	0.81
1:C:1517:VAL:HA	1:C:1531:GLN:O	1.80	0.81
1:D:297:ILE:HG22	1:D:440:LEU:HD21	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:598:HIS:HB2	1:D:600:LEU:HD13	1.63	0.81
1:D:852:GLN:HB3	1:D:880:TRP:CH2	2.14	0.81
1:E:251:LEU:HD11	1:E:470:ILE:CG2	2.10	0.81
1:E:402:ILE:HG23	1:E:428:VAL:CG1	2.09	0.81
1:E:852:GLN:HB3	1:E:880:TRP:CH2	2.14	0.81
1:E:1340:ILE:HG21	1:E:1351:ILE:HD11	1.62	0.81
1:A:515:PHE:HE1	1:A:585:LEU:HD13	1.45	0.81
1:C:640:TRP:O	1:C:643:THR:HG22	1.81	0.81
1:D:498:LEU:HD11	1:D:593:LEU:HD23	1.60	0.81
1:D:1386:ILE:HD13	1:D:1468:LYS:HE3	1.62	0.81
1:D:1517:VAL:HA	1:D:1531:GLN:O	1.80	0.81
1:A:251:LEU:HD11	1:A:470:ILE:CG2	2.10	0.81
1:A:276:LEU:CD2	1:A:437:LEU:HD12	2.10	0.81
1:A:481:THR:HG21	1:A:496:LEU:CD2	2.08	0.81
1:A:830:LEU:HD23	1:A:831:THR:N	1.95	0.81
1:B:640:TRP:O	1:B:643:THR:HG22	1.81	0.81
1:B:654:MET:HE3	1:B:765:VAL:CG2	2.08	0.81
1:B:733:TRP:CE3	1:B:734:LEU:HD23	2.14	0.81
1:B:830:LEU:HD23	1:B:831:THR:N	1.95	0.81
1:D:342:ASP:HB2	1:D:358:LYS:HG2	1.63	0.81
1:E:598:HIS:HB2	1:E:600:LEU:HD13	1.63	0.81
1:A:536:ILE:HB	1:A:578:ILE:HG12	1.61	0.81
1:D:1406:PRO:CG	1:D:1473:MET:HE1	2.10	0.81
1:E:611:ALA:HB2	1:E:652:PHE:HD1	1.42	0.81
1:A:310:ASN:HB3	1:A:458:GLU:OE1	1.81	0.81
1:B:590:ILE:HB	1:B:619:LEU:HD13	1.62	0.81
1:B:670:LEU:CG	1:B:699:THR:HG21	2.05	0.81
1:B:1542:LEU:CD2	1:B:1549:ALA:HB1	2.10	0.81
1:C:598:HIS:HB2	1:C:600:LEU:HD13	1.63	0.81
1:D:276:LEU:CD2	1:D:437:LEU:HD12	2.10	0.81
1:D:536:ILE:HB	1:D:578:ILE:HG12	1.61	0.81
1:E:276:LEU:CD2	1:E:437:LEU:HD12	2.10	0.81
1:E:497:ILE:HD13	1:E:589:TYR:HD2	1.46	0.81
1:E:536:ILE:HB	1:E:578:ILE:HG12	1.60	0.81
1:E:696:ILE:O	1:E:699:THR:HG22	1.80	0.81
1:E:1542:LEU:CD2	1:E:1549:ALA:HB1	2.10	0.81
1:B:433:GLN:O	1:B:437:LEU:HD23	1.79	0.81
1:B:524:LEU:HD11	1:B:550:ILE:N	1.96	0.81
1:B:1386:ILE:HD13	1:B:1468:LYS:HE3	1.62	0.81
1:C:297:ILE:HG22	1:C:440:LEU:HD21	1.62	0.81
1:C:515:PHE:CE1	1:C:585:LEU:HD13	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:640:TRP:O	1:D:643:THR:HG22	1.81	0.81
1:E:515:PHE:HE1	1:E:585:LEU:HD13	1.45	0.81
1:A:1576:LEU:HG	1:A:1577:LYS:H	1.45	0.81
1:B:1340:ILE:HG21	1:B:1351:ILE:HD11	1.62	0.81
1:B:1517:VAL:HA	1:B:1531:GLN:O	1.80	0.81
1:C:337:ASN:HD22	1:C:422:ALA:HB2	1.45	0.81
1:D:830:LEU:HD23	1:D:831:THR:N	1.95	0.81
1:E:310:ASN:HB3	1:E:458:GLU:OE1	1.81	0.81
1:E:337:ASN:HD22	1:E:422:ALA:HB2	1.45	0.81
1:B:500:ASN:ND2	1:B:627:LEU:HD13	1.96	0.81
1:C:310:ASN:HB3	1:C:458:GLU:OE1	1.81	0.81
1:C:1576:LEU:HG	1:C:1577:LYS:H	1.45	0.81
1:D:497:ILE:HD13	1:D:589:TYR:HD2	1.46	0.81
1:D:696:ILE:O	1:D:699:THR:HG22	1.80	0.81
1:C:785:MET:O	1:C:871:TRP:HB3	1.81	0.80
1:C:1386:ILE:HD13	1:C:1468:LYS:HE3	1.62	0.80
1:E:342:ASP:HB2	1:E:358:LYS:HG2	1.63	0.80
1:A:524:LEU:HD11	1:A:550:ILE:N	1.96	0.80
1:A:640:TRP:O	1:A:643:THR:HG22	1.81	0.80
1:A:1386:ILE:HD13	1:A:1468:LYS:HE3	1.62	0.80
1:B:230:LEU:HD21	1:B:880:TRP:CZ2	2.17	0.80
1:B:310:ASN:HB3	1:B:458:GLU:OE1	1.81	0.80
1:C:251:LEU:HD11	1:C:470:ILE:CG2	2.10	0.80
1:C:515:PHE:HE1	1:C:585:LEU:HD13	1.44	0.80
1:C:1340:ILE:HG21	1:C:1351:ILE:HD11	1.62	0.80
1:D:502:PRO:HB2	1:D:582:LEU:HD21	1.63	0.80
1:D:611:ALA:HB2	1:D:652:PHE:HD1	1.42	0.80
1:A:515:PHE:CE1	1:A:585:LEU:HD13	2.16	0.80
1:A:852:GLN:HB3	1:A:880:TRP:CH2	2.14	0.80
1:A:1517:VAL:HA	1:A:1531:GLN:O	1.80	0.80
1:A:1542:LEU:CD2	1:A:1549:ALA:HB1	2.10	0.80
1:C:230:LEU:HD21	1:C:880:TRP:CZ2	2.16	0.80
1:C:276:LEU:CD2	1:C:437:LEU:HD12	2.10	0.80
1:C:342:ASP:HB2	1:C:358:LYS:HG2	1.63	0.80
1:C:524:LEU:HD11	1:C:550:ILE:N	1.96	0.80
1:E:251:LEU:HD21	1:E:470:ILE:CG2	2.11	0.80
1:E:297:ILE:HG22	1:E:440:LEU:HD21	1.62	0.80
1:B:251:LEU:HD11	1:B:470:ILE:CG2	2.10	0.80
1:B:482:LYS:HA	1:B:485:MET:HE3	1.63	0.80
1:E:524:LEU:HD11	1:E:550:ILE:N	1.96	0.80
1:E:1386:ILE:HD13	1:E:1468:LYS:HE3	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:276:LEU:CD2	1:B:437:LEU:HD12	2.10	0.80
1:D:251:LEU:HD11	1:D:470:ILE:CG2	2.10	0.80
1:D:590:ILE:HB	1:D:619:LEU:HD13	1.62	0.80
1:D:785:MET:O	1:D:871:TRP:HB3	1.81	0.80
1:E:830:LEU:HD23	1:E:831:THR:N	1.95	0.80
1:A:696:ILE:O	1:A:699:THR:HG22	1.80	0.80
1:B:598:HIS:HB2	1:B:600:LEU:HD13	1.63	0.80
1:C:830:LEU:HD23	1:C:831:THR:N	1.95	0.80
1:D:524:LEU:HD11	1:D:550:ILE:N	1.96	0.80
1:A:831:THR:HG23	1:A:868:PHE:CB	2.12	0.80
1:C:689:LEU:HB3	1:C:709:HIS:CD2	2.17	0.80
1:D:355:LEU:HD12	1:D:357:TYR:HD1	1.47	0.80
1:E:640:TRP:O	1:E:643:THR:HG22	1.81	0.80
1:A:490:ILE:HG23	1:A:494:THR:OG1	1.81	0.80
1:A:806:ARG:HD2	1:A:875:ASN:ND2	1.97	0.80
1:B:218:LEU:HD11	1:B:239:ILE:CG2	2.12	0.80
1:B:696:ILE:O	1:B:699:THR:HG22	1.80	0.80
1:D:230:LEU:HD21	1:D:880:TRP:CZ2	2.17	0.80
1:D:337:ASN:HD22	1:D:422:ALA:HB2	1.46	0.80
1:D:1576:LEU:HG	1:D:1577:LYS:H	1.45	0.80
1:E:1357:LEU:HD13	1:E:1555:PHE:HB3	1.63	0.80
1:A:598:HIS:HB2	1:A:600:LEU:HD13	1.63	0.80
1:B:490:ILE:HG23	1:B:494:THR:OG1	1.81	0.80
1:B:1463:LYS:HE3	1:B:1466:ASP:OD2	1.82	0.80
1:C:497:ILE:HD13	1:C:589:TYR:HD2	1.46	0.80
1:C:589:TYR:CZ	1:C:593:LEU:HD11	2.17	0.80
1:C:1463:LYS:HE3	1:C:1466:ASP:OD2	1.82	0.80
1:E:490:ILE:HG23	1:E:494:THR:OG1	1.81	0.80
1:A:297:ILE:HG22	1:A:440:LEU:HD21	1.62	0.80
1:D:310:ASN:HB3	1:D:458:GLU:OE1	1.81	0.80
1:D:661:LYS:CA	1:D:753:VAL:HG21	2.12	0.80
1:E:831:THR:CG2	1:E:868:PHE:HB3	2.12	0.80
1:A:500:ASN:ND2	1:A:627:LEU:HD13	1.96	0.79
1:C:251:LEU:HD21	1:C:470:ILE:CG2	2.11	0.79
1:C:696:ILE:O	1:C:699:THR:HG22	1.80	0.79
1:D:218:LEU:HD11	1:D:239:ILE:CG2	2.12	0.79
1:D:497:ILE:HD13	1:D:589:TYR:CD2	2.17	0.79
1:D:793:ALA:HB1	1:D:794:PRO:HD2	1.65	0.79
1:A:497:ILE:HD13	1:A:589:TYR:CD2	2.17	0.79
1:B:251:LEU:HD21	1:B:470:ILE:CG2	2.11	0.79
1:B:342:ASP:HB2	1:B:358:LYS:HG2	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:497:ILE:HD13	1:B:589:TYR:CD2	2.17	0.79
1:B:689:LEU:HB3	1:B:709:HIS:CD2	2.17	0.79
1:B:1357:LEU:HD13	1:B:1555:PHE:HB3	1.63	0.79
1:D:500:ASN:ND2	1:D:627:LEU:HD13	1.96	0.79
1:E:355:LEU:HD12	1:E:357:TYR:HD1	1.47	0.79
1:E:497:ILE:HD13	1:E:589:TYR:CD2	2.17	0.79
1:A:342:ASP:HB2	1:A:358:LYS:HG2	1.63	0.79
1:A:497:ILE:HD13	1:A:589:TYR:HD2	1.46	0.79
1:A:689:LEU:HB3	1:A:709:HIS:CD2	2.17	0.79
1:A:1542:LEU:HD12	1:A:1551:ILE:CD1	2.13	0.79
1:B:659:TYR:HB2	1:B:754:GLN:HA	1.64	0.79
1:C:497:ILE:HD13	1:C:589:TYR:CD2	2.17	0.79
1:C:1437:TRP:CZ3	1:C:1439:PRO:HG3	2.18	0.79
1:D:689:LEU:HB3	1:D:709:HIS:CD2	2.17	0.79
1:D:831:THR:HG23	1:D:868:PHE:CB	2.12	0.79
1:D:1357:LEU:HD13	1:D:1555:PHE:HB3	1.63	0.79
1:A:227:ILE:HD11	1:A:879:GLN:O	1.83	0.79
1:A:502:PRO:HB2	1:A:582:LEU:HD21	1.63	0.79
1:A:831:THR:CG2	1:A:868:PHE:HB3	2.12	0.79
1:B:227:ILE:HD11	1:B:879:GLN:O	1.83	0.79
1:B:227:ILE:O	1:B:230:LEU:HD13	1.83	0.79
1:B:1468:LYS:HA	1:B:1468:LYS:CE	2.13	0.79
1:D:806:ARG:HD2	1:D:875:ASN:ND2	1.96	0.79
1:D:1463:LYS:HE3	1:D:1466:ASP:OD2	1.82	0.79
1:D:1542:LEU:HD12	1:D:1551:ILE:CD1	2.13	0.79
1:E:502:PRO:HB2	1:E:582:LEU:HD21	1.63	0.79
1:E:831:THR:HG23	1:E:868:PHE:CB	2.12	0.79
1:A:536:ILE:HD11	1:A:547:ARG:HD3	1.65	0.79
1:A:749:GLN:O	1:A:752:ILE:HG22	1.83	0.79
1:A:1437:TRP:CZ3	1:A:1439:PRO:HG3	2.18	0.79
1:B:497:ILE:HD13	1:B:589:TYR:HD2	1.46	0.79
1:B:785:MET:O	1:B:871:TRP:HB3	1.81	0.79
1:B:1437:TRP:CZ3	1:B:1439:PRO:HG3	2.18	0.79
1:C:793:ALA:HB1	1:C:794:PRO:HD2	1.65	0.79
1:C:806:ARG:HD2	1:C:875:ASN:ND2	1.97	0.79
1:C:1357:LEU:HD13	1:C:1555:PHE:HB3	1.63	0.79
1:C:1498:VAL:HG23	1:C:1557:ALA:HB2	1.65	0.79
1:D:749:GLN:O	1:D:752:ILE:HG22	1.83	0.79
1:A:661:LYS:CA	1:A:753:VAL:HG21	2.12	0.79
1:B:502:PRO:HB2	1:B:582:LEU:HD21	1.63	0.79
1:B:793:ALA:HB1	1:B:794:PRO:HD2	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:806:ARG:HD2	1:B:875:ASN:ND2	1.97	0.79
1:C:490:ILE:HG23	1:C:494:THR:OG1	1.81	0.79
1:C:500:ASN:ND2	1:C:627:LEU:HD13	1.96	0.79
1:C:536:ILE:HD11	1:C:547:ARG:HD3	1.65	0.79
1:D:227:ILE:HD11	1:D:879:GLN:O	1.83	0.79
1:D:562:LEU:O	1:D:562:LEU:HD23	1.83	0.79
1:E:806:ARG:HD2	1:E:875:ASN:ND2	1.97	0.79
1:A:355:LEU:HD12	1:A:357:TYR:HD1	1.47	0.79
1:A:1495:PRO:O	1:A:1498:VAL:HG12	1.83	0.79
1:B:453:SER:O	1:B:456:ILE:HG22	1.83	0.79
1:B:1495:PRO:O	1:B:1498:VAL:HG12	1.82	0.79
1:C:218:LEU:HD11	1:C:239:ILE:CG2	2.12	0.79
1:D:337:ASN:HB3	1:D:339:TYR:O	1.83	0.79
1:E:500:ASN:ND2	1:E:627:LEU:HD13	1.96	0.79
1:E:661:LYS:CA	1:E:753:VAL:HG21	2.12	0.79
1:A:793:ALA:HB1	1:A:794:PRO:HD2	1.65	0.79
1:A:1463:LYS:HE3	1:A:1466:ASP:OD2	1.82	0.79
1:C:661:LYS:CA	1:C:753:VAL:HG21	2.12	0.79
1:C:745:ALA:HB3	1:C:749:GLN:NE2	1.98	0.79
1:E:227:ILE:HD11	1:E:879:GLN:O	1.83	0.79
1:E:589:TYR:CZ	1:E:593:LEU:HD11	2.17	0.79
1:E:785:MET:O	1:E:871:TRP:HB3	1.81	0.79
1:E:1437:TRP:CZ3	1:E:1439:PRO:HG3	2.18	0.79
1:A:785:MET:O	1:A:871:TRP:HB3	1.81	0.79
1:B:589:TYR:CZ	1:B:593:LEU:HD11	2.17	0.79
1:B:623:SER:CB	1:B:626:GLN:HG2	2.13	0.79
1:C:227:ILE:HD11	1:C:879:GLN:O	1.83	0.79
1:C:849:ALA:CB	1:C:877:ILE:HG23	2.13	0.79
1:D:831:THR:CG2	1:D:868:PHE:HB3	2.12	0.79
1:D:849:ALA:CB	1:D:877:ILE:HG23	2.13	0.79
1:E:230:LEU:HD21	1:E:880:TRP:CZ2	2.17	0.79
1:A:230:LEU:HD21	1:A:880:TRP:CZ2	2.17	0.79
1:B:562:LEU:HD23	1:B:562:LEU:O	1.83	0.79
1:B:771:ILE:HG22	1:B:772:ASN:O	1.83	0.79
1:D:227:ILE:O	1:D:230:LEU:HD13	1.83	0.79
1:D:453:SER:O	1:D:456:ILE:HG22	1.83	0.79
1:D:494:THR:O	1:D:497:ILE:HG22	1.83	0.79
1:D:589:TYR:CZ	1:D:593:LEU:HD11	2.17	0.79
1:A:218:LEU:HD11	1:A:239:ILE:CG2	2.12	0.78
1:A:1337:ILE:CG2	1:A:1355:PRO:HB3	2.10	0.78
1:B:536:ILE:HD11	1:B:547:ARG:HD3	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:661:LYS:CA	1:B:753:VAL:HG21	2.12	0.78
1:B:831:THR:HG23	1:B:868:PHE:CB	2.12	0.78
1:C:494:THR:O	1:C:497:ILE:HG22	1.83	0.78
1:D:490:ILE:HG23	1:D:494:THR:OG1	1.81	0.78
1:E:218:LEU:HD11	1:E:239:ILE:CG2	2.12	0.78
1:E:536:ILE:HD11	1:E:547:ARG:HD3	1.65	0.78
1:E:771:ILE:HG22	1:E:772:ASN:O	1.83	0.78
1:E:1463:LYS:HE3	1:E:1466:ASP:OD2	1.82	0.78
1:E:1498:VAL:HG23	1:E:1557:ALA:HB2	1.65	0.78
1:E:1576:LEU:HG	1:E:1577:LYS:H	1.45	0.78
1:A:259:ASN:HB3	1:A:263:LEU:CD1	2.13	0.78
1:A:1500:ILE:HD11	1:A:1532:PHE:CD1	2.18	0.78
1:B:745:ALA:HB3	1:B:749:GLN:NE2	1.98	0.78
1:C:259:ASN:HB3	1:C:263:LEU:CD1	2.13	0.78
1:C:502:PRO:HB2	1:C:582:LEU:HD21	1.63	0.78
1:C:786:PHE:HA	1:C:871:TRP:CD1	2.19	0.78
1:E:337:ASN:HB3	1:E:339:TYR:O	1.83	0.78
1:E:623:SER:CB	1:E:626:GLN:HG2	2.13	0.78
1:E:654:MET:CE	1:E:765:VAL:HG22	2.13	0.78
1:E:793:ALA:HB1	1:E:794:PRO:HD2	1.65	0.78
1:C:453:SER:O	1:C:456:ILE:HG22	1.83	0.78
1:C:749:GLN:O	1:C:752:ILE:HG22	1.83	0.78
1:D:536:ILE:HD11	1:D:547:ARG:HD3	1.65	0.78
1:D:1437:TRP:CZ3	1:D:1439:PRO:HG3	2.18	0.78
1:E:227:ILE:O	1:E:230:LEU:HD13	1.83	0.78
1:E:562:LEU:HD23	1:E:562:LEU:O	1.83	0.78
1:E:689:LEU:HB3	1:E:709:HIS:CD2	2.17	0.78
1:A:1357:LEU:HD13	1:A:1555:PHE:HB3	1.63	0.78
1:A:1498:VAL:HG23	1:A:1557:ALA:HB2	1.65	0.78
1:C:227:ILE:O	1:C:230:LEU:HD13	1.83	0.78
1:C:1500:ILE:HD11	1:C:1532:PHE:CD1	2.18	0.78
1:D:259:ASN:HB3	1:D:263:LEU:CD1	2.13	0.78
1:E:786:PHE:HA	1:E:871:TRP:CD1	2.19	0.78
1:A:589:TYR:CZ	1:A:593:LEU:HD11	2.17	0.78
1:C:654:MET:CE	1:C:765:VAL:HG22	2.13	0.78
1:D:1408:TYR:OH	1:D:1420:GLY:HA3	1.84	0.78
1:A:1408:TYR:OH	1:A:1420:GLY:HA3	1.84	0.78
1:B:481:THR:CG2	1:B:496:LEU:HD23	2.13	0.78
1:B:696:ILE:HD13	1:B:712:LEU:HD21	1.66	0.78
1:D:1498:VAL:HG23	1:D:1557:ALA:HB2	1.65	0.78
1:E:247:LEU:O	1:E:247:LEU:HD23	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:259:ASN:HB3	1:E:263:LEU:CD1	2.13	0.78
1:E:453:SER:O	1:E:456:ILE:HG22	1.83	0.78
1:A:494:THR:O	1:A:497:ILE:HG22	1.83	0.78
1:A:696:ILE:HD13	1:A:712:LEU:HD21	1.66	0.78
1:A:1468:LYS:HA	1:A:1468:LYS:CE	2.13	0.78
1:B:494:THR:O	1:B:497:ILE:HG22	1.83	0.78
1:B:831:THR:CG2	1:B:868:PHE:HB3	2.13	0.78
1:C:481:THR:CG2	1:C:496:LEU:HD23	2.13	0.78
1:C:562:LEU:HD23	1:C:562:LEU:O	1.83	0.78
1:C:654:MET:HE3	1:C:765:VAL:CA	2.14	0.78
1:C:1542:LEU:HD12	1:C:1551:ILE:CD1	2.13	0.78
1:E:1495:PRO:O	1:E:1498:VAL:HG12	1.83	0.78
1:A:453:SER:O	1:A:456:ILE:HG22	1.83	0.78
1:A:771:ILE:HG22	1:A:772:ASN:O	1.83	0.78
1:A:789:ALA:HB3	1:A:792:ALA:CB	2.14	0.78
1:B:786:PHE:HA	1:B:871:TRP:CD1	2.19	0.78
1:B:1500:ILE:HD11	1:B:1532:PHE:CD1	2.18	0.78
1:C:227:ILE:CD1	1:C:883:VAL:HB	2.13	0.78
1:C:355:LEU:HD12	1:C:357:TYR:HD1	1.47	0.78
1:C:696:ILE:HD13	1:C:712:LEU:HD21	1.66	0.78
1:C:1495:PRO:O	1:C:1498:VAL:HG12	1.83	0.78
1:D:786:PHE:HA	1:D:871:TRP:CD1	2.19	0.78
1:E:482:LYS:HA	1:E:485:MET:HE3	1.65	0.78
1:E:659:TYR:HB2	1:E:754:GLN:HA	1.64	0.78
1:A:227:ILE:O	1:A:230:LEU:HD13	1.83	0.78
1:B:1498:VAL:HG23	1:B:1557:ALA:HB2	1.65	0.78
1:C:659:TYR:HB2	1:C:754:GLN:HA	1.64	0.78
1:A:481:THR:CG2	1:A:496:LEU:HD23	2.13	0.78
1:A:623:SER:CB	1:A:626:GLN:HG2	2.13	0.78
1:A:786:PHE:HA	1:A:871:TRP:CD1	2.19	0.78
1:A:786:PHE:HA	1:A:871:TRP:HD1	1.49	0.78
1:C:337:ASN:HB3	1:C:339:TYR:O	1.83	0.78
1:C:623:SER:CB	1:C:626:GLN:HG2	2.13	0.78
1:C:771:ILE:HG22	1:C:772:ASN:O	1.83	0.78
1:D:247:LEU:HD23	1:D:247:LEU:O	1.84	0.78
1:D:251:LEU:HD21	1:D:470:ILE:CG2	2.11	0.78
1:D:771:ILE:HG22	1:D:772:ASN:O	1.83	0.78
1:D:786:PHE:HA	1:D:871:TRP:HD1	1.49	0.78
1:E:696:ILE:HD13	1:E:712:LEU:HD21	1.66	0.78
1:A:745:ALA:HB3	1:A:749:GLN:NE2	1.98	0.77
1:C:555:PHE:HE1	1:C:589:TYR:CD1	2.02	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:659:TYR:HB2	1:D:754:GLN:HA	1.64	0.77
1:D:789:ALA:HB3	1:D:792:ALA:CB	2.14	0.77
1:E:745:ALA:HB3	1:E:749:GLN:NE2	1.98	0.77
1:A:562:LEU:O	1:A:562:LEU:HD23	1.83	0.77
1:B:259:ASN:HB3	1:B:263:LEU:CD1	2.13	0.77
1:C:1408:TYR:OH	1:C:1420:GLY:HA3	1.84	0.77
1:D:1337:ILE:CG2	1:D:1355:PRO:HB3	2.10	0.77
1:D:1495:PRO:O	1:D:1498:VAL:HG12	1.82	0.77
1:E:749:GLN:O	1:E:752:ILE:HG22	1.83	0.77
1:E:1337:ILE:CG2	1:E:1355:PRO:HB3	2.10	0.77
1:A:586:SER:O	1:A:590:ILE:HG13	1.85	0.77
1:B:337:ASN:HB3	1:B:339:TYR:O	1.83	0.77
1:C:789:ALA:HB3	1:C:792:ALA:CB	2.14	0.77
1:C:831:THR:HG23	1:C:868:PHE:CB	2.12	0.77
1:C:831:THR:CG2	1:C:868:PHE:HB3	2.13	0.77
1:D:524:LEU:HD13	1:D:549:THR:HB	1.66	0.77
1:D:663:LEU:HD23	1:D:663:LEU:H	1.48	0.77
1:D:745:ALA:HB3	1:D:749:GLN:NE2	1.98	0.77
1:D:1500:ILE:HD11	1:D:1532:PHE:CD1	2.18	0.77
1:E:1542:LEU:HD12	1:E:1551:ILE:CD1	2.13	0.77
1:B:586:SER:O	1:B:590:ILE:HG13	1.85	0.77
1:D:481:THR:CG2	1:D:496:LEU:HD23	2.13	0.77
1:D:623:SER:CB	1:D:626:GLN:HG2	2.13	0.77
1:D:696:ILE:HD13	1:D:712:LEU:HD21	1.66	0.77
1:E:481:THR:CG2	1:E:496:LEU:HD23	2.13	0.77
1:E:849:ALA:CB	1:E:877:ILE:HG23	2.13	0.77
1:A:337:ASN:HB3	1:A:339:TYR:O	1.83	0.77
1:A:663:LEU:HD23	1:A:663:LEU:H	1.48	0.77
1:A:849:ALA:CB	1:A:877:ILE:HG23	2.13	0.77
1:E:1500:ILE:HD11	1:E:1532:PHE:CD1	2.18	0.77
1:B:749:GLN:O	1:B:752:ILE:HG22	1.83	0.77
1:B:849:ALA:CB	1:B:877:ILE:HG23	2.13	0.77
1:C:586:SER:O	1:C:590:ILE:HG13	1.85	0.77
1:A:251:LEU:HD21	1:A:470:ILE:CG2	2.11	0.77
1:A:1424:PHE:CZ	1:A:1434:VAL:HG21	2.20	0.77
1:C:524:LEU:HD13	1:C:549:THR:HB	1.66	0.77
1:E:586:SER:O	1:E:590:ILE:HG13	1.85	0.77
1:E:612:VAL:HG13	1:E:614:GLU:H	1.50	0.77
1:A:337:ASN:ND2	1:A:422:ALA:HB2	2.00	0.77
1:B:569:THR:HG23	1:B:587:ASN:CB	2.15	0.77
1:B:612:VAL:HG13	1:B:614:GLU:H	1.50	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:612:VAL:HG13	1:D:614:GLU:H	1.50	0.77
1:D:1336:ASP:O	1:D:1338:PRO:HD3	1.85	0.77
1:A:577:LYS:HD2	1:A:577:LYS:O	1.85	0.77
1:A:612:VAL:HG13	1:A:614:GLU:H	1.50	0.77
1:B:663:LEU:HD23	1:B:663:LEU:H	1.48	0.77
1:B:1337:ILE:HG22	1:B:1355:PRO:CB	2.12	0.77
1:D:347:PRO:HA	1:D:353:TYR:HD1	1.49	0.77
1:D:569:THR:HG23	1:D:587:ASN:CB	2.15	0.77
1:E:264:TYR:CA	1:E:438:LEU:HD11	2.15	0.77
1:B:726:THR:HB	1:B:729:LYS:HG2	1.66	0.77
1:C:347:PRO:HA	1:C:353:TYR:HD1	1.49	0.77
1:C:337:ASN:ND2	1:C:422:ALA:HB2	2.00	0.76
1:D:264:TYR:CA	1:D:438:LEU:HD11	2.15	0.76
1:A:610:ILE:HG13	1:A:652:PHE:CE1	2.21	0.76
1:B:355:LEU:HD12	1:B:357:TYR:HD1	1.47	0.76
1:B:555:PHE:HE1	1:B:589:TYR:CD1	2.02	0.76
1:B:789:ALA:HB3	1:B:792:ALA:CB	2.14	0.76
1:C:1336:ASP:O	1:C:1338:PRO:HD3	1.85	0.76
1:D:586:SER:O	1:D:590:ILE:HG13	1.85	0.76
1:E:494:THR:O	1:E:497:ILE:HG22	1.83	0.76
1:E:610:ILE:HG13	1:E:652:PHE:CE1	2.20	0.76
1:E:789:ALA:HB3	1:E:792:ALA:CB	2.14	0.76
1:A:569:THR:HG23	1:A:587:ASN:CB	2.15	0.76
1:A:654:MET:CE	1:A:765:VAL:HA	2.15	0.76
1:B:1408:TYR:OH	1:B:1420:GLY:HA3	1.84	0.76
1:C:515:PHE:CE2	1:C:528:TYR:HD2	2.04	0.76
1:C:610:ILE:HG13	1:C:652:PHE:CE1	2.20	0.76
1:C:726:THR:HB	1:C:729:LYS:HG2	1.67	0.76
1:D:515:PHE:CE2	1:D:528:TYR:HD2	2.04	0.76
1:D:598:HIS:CE1	1:D:634:LEU:HB3	2.21	0.76
1:E:524:LEU:HD13	1:E:549:THR:HB	1.66	0.76
1:A:1423:LEU:HD23	1:A:1456:TYR:HB3	1.67	0.76
1:B:524:LEU:HD13	1:B:549:THR:HB	1.66	0.76
1:C:247:LEU:O	1:C:247:LEU:HD23	1.84	0.76
1:C:663:LEU:H	1:C:663:LEU:HD23	1.48	0.76
1:C:1316:VAL:HG21	1:C:1572:ILE:HA	1.68	0.76
1:E:227:ILE:CD1	1:E:883:VAL:HB	2.13	0.76
1:E:337:ASN:ND2	1:E:422:ALA:HB2	2.00	0.76
1:E:1337:ILE:HG22	1:E:1355:PRO:CB	2.12	0.76
1:A:608:LEU:HB2	1:A:648:VAL:HG11	1.68	0.76
1:A:733:TRP:CZ3	1:A:738:TYR:HB2	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:337:ASN:ND2	1:B:422:ALA:HB2	2.00	0.76
1:C:577:LYS:HD2	1:C:577:LYS:O	1.85	0.76
1:A:247:LEU:O	1:A:247:LEU:HD23	1.84	0.76
1:A:524:LEU:HD13	1:A:549:THR:HB	1.66	0.76
1:A:598:HIS:CE1	1:A:634:LEU:HB3	2.21	0.76
1:B:1424:PHE:CZ	1:B:1434:VAL:HG21	2.20	0.76
1:C:482:LYS:HA	1:C:485:MET:HE3	1.66	0.76
1:C:786:PHE:HA	1:C:871:TRP:HD1	1.49	0.76
1:C:1337:ILE:HG22	1:C:1355:PRO:CB	2.12	0.76
1:D:577:LYS:O	1:D:577:LYS:HD2	1.85	0.76
1:D:1423:LEU:HD23	1:D:1456:TYR:HB3	1.67	0.76
1:E:1424:PHE:CZ	1:E:1434:VAL:HG21	2.20	0.76
1:B:610:ILE:HG13	1:B:652:PHE:HE1	1.51	0.76
1:B:786:PHE:HA	1:B:871:TRP:HD1	1.49	0.76
1:B:1316:VAL:HG21	1:B:1572:ILE:HA	1.68	0.76
1:C:612:VAL:HG13	1:C:614:GLU:H	1.50	0.76
1:D:733:TRP:CZ3	1:D:738:TYR:HB2	2.21	0.76
1:D:1316:VAL:HG21	1:D:1572:ILE:HA	1.68	0.76
1:D:1424:PHE:CZ	1:D:1434:VAL:HG21	2.20	0.76
1:E:347:PRO:HA	1:E:353:TYR:HD1	1.49	0.76
1:E:1336:ASP:O	1:E:1338:PRO:HD3	1.85	0.76
1:B:347:PRO:HA	1:B:353:TYR:HD1	1.49	0.76
1:B:515:PHE:CE2	1:B:528:TYR:HD2	2.04	0.76
1:B:610:ILE:HG13	1:B:652:PHE:CE1	2.21	0.76
1:B:733:TRP:CZ3	1:B:738:TYR:HB2	2.21	0.76
1:D:610:ILE:HG13	1:D:652:PHE:HE1	1.51	0.76
1:E:726:THR:HB	1:E:729:LYS:HG2	1.67	0.76
1:E:1408:TYR:OH	1:E:1420:GLY:HA3	1.84	0.76
1:A:264:TYR:CA	1:A:438:LEU:HD11	2.15	0.76
1:A:659:TYR:HB2	1:A:754:GLN:HA	1.64	0.76
1:B:1423:LEU:HD23	1:B:1456:TYR:HB3	1.67	0.76
1:E:515:PHE:CE2	1:E:528:TYR:HD2	2.04	0.76
1:E:663:LEU:HD23	1:E:663:LEU:H	1.48	0.76
1:A:1336:ASP:O	1:A:1338:PRO:HD3	1.85	0.76
1:B:1336:ASP:O	1:B:1338:PRO:HD3	1.85	0.76
1:C:1423:LEU:HD23	1:C:1456:TYR:HB3	1.67	0.76
1:D:654:MET:CE	1:D:765:VAL:HA	2.15	0.76
1:D:726:THR:HB	1:D:729:LYS:HG2	1.67	0.76
1:E:610:ILE:HG13	1:E:652:PHE:HE1	1.51	0.76
1:E:1316:VAL:HG21	1:E:1572:ILE:HA	1.68	0.76
1:B:227:ILE:CD1	1:B:883:VAL:HB	2.13	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:247:LEU:HD23	1:B:247:LEU:O	1.84	0.75
1:A:610:ILE:HG13	1:A:652:PHE:HE1	1.51	0.75
1:B:264:TYR:CA	1:B:438:LEU:HD11	2.15	0.75
1:B:608:LEU:HB2	1:B:648:VAL:HG11	1.68	0.75
1:B:654:MET:CE	1:B:765:VAL:HA	2.15	0.75
1:B:577:LYS:O	1:B:577:LYS:HD2	1.85	0.75
1:C:598:HIS:CE1	1:C:634:LEU:HB3	2.21	0.75
1:E:1421:ARG:NH2	1:E:1423:LEU:HD21	2.02	0.75
1:C:264:TYR:CA	1:C:438:LEU:HD11	2.15	0.75
1:A:1463:LYS:HB3	1:A:1465:ASP:OD1	1.87	0.75
1:C:1421:ARG:NH2	1:C:1423:LEU:HD21	2.02	0.75
1:C:1424:PHE:CZ	1:C:1434:VAL:HG21	2.20	0.75
1:D:852:GLN:HB3	1:D:880:TRP:CZ3	2.21	0.75
1:D:1463:LYS:HB3	1:D:1465:ASP:OD1	1.87	0.75
1:E:659:TYR:HD1	1:E:757:GLN:HB2	1.52	0.75
1:E:852:GLN:HB3	1:E:880:TRP:CZ3	2.21	0.75
1:A:1312:ILE:CD1	1:A:1574:VAL:HA	2.16	0.75
1:C:659:TYR:HD1	1:C:757:GLN:HB2	1.51	0.75
1:C:661:LYS:HA	1:C:753:VAL:HG11	1.68	0.75
1:D:337:ASN:ND2	1:D:422:ALA:HB2	2.00	0.75
1:D:610:ILE:HG13	1:D:652:PHE:CE1	2.20	0.75
1:D:1337:ILE:HG22	1:D:1355:PRO:CB	2.12	0.75
1:E:353:TYR:CE2	1:E:397:LEU:HB2	2.22	0.75
1:A:372:LEU:HD12	1:A:373:ASN:OD1	1.87	0.75
1:A:515:PHE:CE2	1:A:528:TYR:HD2	2.04	0.75
1:A:555:PHE:HE1	1:A:589:TYR:CD1	2.02	0.75
1:A:569:THR:OG1	1:A:588:LEU:HA	1.87	0.75
1:A:726:THR:HB	1:A:729:LYS:HG2	1.66	0.75
1:A:1316:VAL:HG21	1:A:1572:ILE:HA	1.68	0.75
1:B:598:HIS:CE1	1:B:634:LEU:HB3	2.21	0.75
1:E:569:THR:HG23	1:E:587:ASN:CB	2.15	0.75
1:E:598:HIS:CE1	1:E:634:LEU:HB3	2.21	0.75
1:B:1542:LEU:HD12	1:B:1551:ILE:CD1	2.13	0.75
1:C:733:TRP:CZ3	1:C:738:TYR:HB2	2.21	0.75
1:D:746:VAL:O	1:D:749:GLN:HG3	1.86	0.75
1:E:608:LEU:HB2	1:E:648:VAL:HG11	1.68	0.75
1:E:674:VAL:HG13	1:E:678:LEU:HD13	1.68	0.75
1:A:674:VAL:HG13	1:A:678:LEU:HD13	1.68	0.75
1:B:659:TYR:HD1	1:B:757:GLN:HB2	1.52	0.75
1:C:353:TYR:CE2	1:C:397:LEU:HB2	2.22	0.75
1:C:852:GLN:HB3	1:C:880:TRP:CZ3	2.21	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1312:ILE:CD1	1:C:1574:VAL:HA	2.16	0.75
1:A:347:PRO:HA	1:A:353:TYR:HD1	1.49	0.74
1:A:659:TYR:HD1	1:A:757:GLN:HB2	1.51	0.74
1:A:1421:ARG:NH2	1:A:1423:LEU:HD21	2.02	0.74
1:C:674:VAL:HG13	1:C:678:LEU:HD13	1.68	0.74
1:D:413:VAL:HG22	1:D:419:TRP:HB3	1.69	0.74
1:D:674:VAL:HG13	1:D:678:LEU:HD13	1.68	0.74
1:E:733:TRP:CZ3	1:E:738:TYR:HB2	2.21	0.74
1:E:1391:LEU:HD22	1:E:1483:VAL:HG12	1.69	0.74
1:B:353:TYR:CE2	1:B:397:LEU:HB2	2.22	0.74
1:B:751:HIS:O	1:B:754:GLN:HB2	1.87	0.74
1:C:482:LYS:O	1:C:486:GLN:HG3	1.87	0.74
1:C:608:LEU:HB2	1:C:648:VAL:HG11	1.68	0.74
1:C:751:HIS:O	1:C:754:GLN:HB2	1.87	0.74
1:D:372:LEU:HD12	1:D:373:ASN:OD1	1.87	0.74
1:E:786:PHE:HA	1:E:871:TRP:HD1	1.49	0.74
1:E:1423:LEU:HD23	1:E:1456:TYR:HB3	1.67	0.74
1:A:622:ILE:CG1	1:A:626:GLN:HG3	2.17	0.74
1:B:1312:ILE:CD1	1:B:1574:VAL:HG13	2.18	0.74
1:C:746:VAL:O	1:C:749:GLN:HG3	1.86	0.74
1:D:661:LYS:HA	1:D:753:VAL:CG2	2.17	0.74
1:E:751:HIS:O	1:E:754:GLN:HB2	1.87	0.74
1:E:1360:ILE:CD1	1:E:1527:GLU:HG3	2.18	0.74
1:A:852:GLN:HB3	1:A:880:TRP:CZ3	2.21	0.74
1:A:1355:PRO:HB2	1:A:1555:PHE:CE2	2.23	0.74
1:C:835:LEU:O	1:C:835:LEU:HD23	1.88	0.74
1:E:264:TYR:HA	1:E:438:LEU:HD11	1.70	0.74
1:E:577:LYS:HD2	1:E:577:LYS:O	1.85	0.74
1:E:814:LEU:HD13	1:E:821:VAL:HG21	1.70	0.74
1:A:661:LYS:HA	1:A:753:VAL:CG2	2.17	0.74
1:B:674:VAL:HG13	1:B:678:LEU:HD13	1.68	0.74
1:B:1463:LYS:HB3	1:B:1465:ASP:OD1	1.87	0.74
1:C:661:LYS:HA	1:C:753:VAL:CG2	2.17	0.74
1:D:569:THR:OG1	1:D:588:LEU:HA	1.87	0.74
1:D:589:TYR:CE1	1:D:593:LEU:HD11	2.23	0.74
1:D:1421:ARG:NH2	1:D:1423:LEU:HD21	2.02	0.74
1:E:413:VAL:HG22	1:E:419:TRP:HB3	1.69	0.74
1:A:848:GLN:O	1:A:851:ILE:HG22	1.87	0.74
1:B:1312:ILE:CD1	1:B:1574:VAL:HA	2.16	0.74
1:D:264:TYR:HA	1:D:438:LEU:HD11	1.69	0.74
1:E:746:VAL:O	1:E:749:GLN:HG3	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:814:LEU:HD13	1:A:821:VAL:HG21	1.70	0.74
1:A:1391:LEU:HD22	1:A:1483:VAL:HG12	1.69	0.74
1:B:835:LEU:O	1:B:835:LEU:HD23	1.87	0.74
1:B:1355:PRO:HB2	1:B:1555:PHE:CE2	2.23	0.74
1:B:1357:LEU:CD1	1:B:1555:PHE:HB3	2.18	0.74
1:C:610:ILE:HG13	1:C:652:PHE:HE1	1.51	0.74
1:C:1312:ILE:CD1	1:C:1574:VAL:HG13	2.18	0.74
1:D:659:TYR:HD1	1:D:757:GLN:HB2	1.52	0.74
1:A:264:TYR:HA	1:A:438:LEU:HD11	1.70	0.74
1:A:353:TYR:CE2	1:A:397:LEU:HB2	2.22	0.74
1:A:589:TYR:CE1	1:A:593:LEU:HD11	2.23	0.74
1:A:746:VAL:O	1:A:749:GLN:HG3	1.86	0.74
1:A:1337:ILE:HG22	1:A:1355:PRO:CB	2.12	0.74
1:A:1360:ILE:CD1	1:A:1527:GLU:HG3	2.18	0.74
1:C:372:LEU:HD12	1:C:373:ASN:OD1	1.87	0.74
1:C:1404:PHE:HE1	1:C:1426:ARG:HD3	1.53	0.74
1:C:1468:LYS:HA	1:C:1468:LYS:CE	2.13	0.74
1:C:1492:ALA:O	1:C:1560:GLU:HB2	1.88	0.74
1:D:608:LEU:HB2	1:D:648:VAL:HG11	1.68	0.74
1:D:814:LEU:HD13	1:D:821:VAL:HG21	1.70	0.74
1:D:848:GLN:O	1:D:851:ILE:HG22	1.87	0.74
1:D:1312:ILE:CD1	1:D:1574:VAL:HA	2.16	0.74
1:D:1355:PRO:HB2	1:D:1555:PHE:CE2	2.23	0.74
1:D:1360:ILE:CD1	1:D:1527:GLU:HG3	2.18	0.74
1:E:589:TYR:CE1	1:E:593:LEU:HD11	2.23	0.74
1:A:482:LYS:O	1:A:486:GLN:HG3	1.88	0.74
1:A:1312:ILE:CD1	1:A:1574:VAL:HG13	2.18	0.74
1:B:342:ASP:HB2	1:B:358:LYS:CG	2.18	0.74
1:B:848:GLN:O	1:B:851:ILE:HG22	1.87	0.74
1:C:569:THR:HG23	1:C:587:ASN:CB	2.15	0.74
1:C:569:THR:OG1	1:C:588:LEU:HA	1.87	0.74
1:D:319:ASN:OD1	1:D:324:THR:HG22	1.88	0.74
1:D:1357:LEU:CD1	1:D:1555:PHE:HB3	2.18	0.74
1:E:661:LYS:HA	1:E:753:VAL:HG11	1.68	0.74
1:A:327:VAL:HG11	1:A:436:PHE:CE1	2.23	0.74
1:C:368:LEU:HB3	1:C:381:THR:CG2	2.18	0.74
1:C:1340:ILE:HG12	1:C:1572:ILE:HG21	1.70	0.74
1:D:835:LEU:HD23	1:D:835:LEU:O	1.87	0.74
1:E:848:GLN:O	1:E:851:ILE:HG22	1.87	0.74
1:E:1312:ILE:CD1	1:E:1574:VAL:HA	2.16	0.74
1:E:1340:ILE:HG12	1:E:1572:ILE:HG21	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:751:HIS:O	1:A:754:GLN:HB2	1.87	0.73
1:A:1357:LEU:CD1	1:A:1555:PHE:HB3	2.18	0.73
1:C:848:GLN:O	1:C:851:ILE:HG22	1.87	0.73
1:C:1463:LYS:HB3	1:C:1465:ASP:OD1	1.87	0.73
1:E:555:PHE:HE1	1:E:589:TYR:CD1	2.02	0.73
1:E:661:LYS:HA	1:E:753:VAL:CG2	2.17	0.73
1:A:413:VAL:HG22	1:A:419:TRP:HB3	1.69	0.73
1:A:661:LYS:HA	1:A:753:VAL:HG11	1.69	0.73
1:B:413:VAL:HG22	1:B:419:TRP:HB3	1.69	0.73
1:C:622:ILE:CG1	1:C:626:GLN:HG3	2.17	0.73
1:D:1492:ALA:O	1:D:1560:GLU:HB2	1.88	0.73
1:E:372:LEU:HD12	1:E:373:ASN:OD1	1.87	0.73
1:A:368:LEU:HB3	1:A:381:THR:CG2	2.18	0.73
1:A:1406:PRO:CG	1:A:1473:MET:HE1	2.11	0.73
1:B:852:GLN:HB3	1:B:880:TRP:CZ3	2.21	0.73
1:C:413:VAL:HG22	1:C:419:TRP:HB3	1.69	0.73
1:C:589:TYR:CE1	1:C:593:LEU:HD11	2.23	0.73
1:C:1360:ILE:CD1	1:C:1527:GLU:HG3	2.18	0.73
1:D:660:ASN:O	1:D:753:VAL:HG11	1.88	0.73
1:E:243:ILE:HG23	1:E:247:LEU:HD22	1.71	0.73
1:E:569:THR:OG1	1:E:588:LEU:HA	1.87	0.73
1:A:243:ILE:HG23	1:A:247:LEU:HD22	1.71	0.73
1:A:654:MET:CE	1:A:765:VAL:HG22	2.13	0.73
1:B:372:LEU:HD12	1:B:373:ASN:OD1	1.87	0.73
1:B:557:ILE:HG23	1:B:561:SER:HB3	1.71	0.73
1:B:622:ILE:CG1	1:B:626:GLN:HG3	2.17	0.73
1:B:660:ASN:O	1:B:753:VAL:HG11	1.88	0.73
1:B:661:LYS:HA	1:B:753:VAL:CG2	2.17	0.73
1:C:557:ILE:HG23	1:C:561:SER:HB3	1.71	0.73
1:C:1355:PRO:HB2	1:C:1555:PHE:CE2	2.23	0.73
1:D:557:ILE:HG23	1:D:561:SER:HB3	1.71	0.73
1:D:661:LYS:HA	1:D:753:VAL:HG11	1.68	0.73
1:D:751:HIS:O	1:D:754:GLN:HB2	1.87	0.73
1:D:1312:ILE:CD1	1:D:1574:VAL:HG13	2.18	0.73
1:E:327:VAL:HG11	1:E:436:PHE:CE1	2.23	0.73
1:E:660:ASN:O	1:E:753:VAL:HG11	1.88	0.73
1:B:327:VAL:HG11	1:B:436:PHE:CE1	2.23	0.73
1:C:260:ALA:HB1	1:C:432:ASN:HD21	1.54	0.73
1:C:1316:VAL:CG2	1:C:1572:ILE:HA	2.19	0.73
1:D:353:TYR:CE2	1:D:397:LEU:HB2	2.22	0.73
1:D:482:LYS:O	1:D:486:GLN:HG3	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1316:VAL:CG2	1:D:1572:ILE:HA	2.19	0.73
1:E:1312:ILE:CD1	1:E:1574:VAL:HG13	2.18	0.73
1:E:1357:LEU:CD1	1:E:1555:PHE:HB3	2.18	0.73
1:E:1463:LYS:HB3	1:E:1465:ASP:OD1	1.87	0.73
1:B:368:LEU:HB3	1:B:381:THR:CG2	2.18	0.73
1:B:569:THR:OG1	1:B:588:LEU:HA	1.87	0.73
1:B:589:TYR:CE1	1:B:593:LEU:HD11	2.23	0.73
1:D:342:ASP:HB2	1:D:358:LYS:CG	2.18	0.73
1:E:319:ASN:OD1	1:E:324:THR:HG22	1.88	0.73
1:E:482:LYS:O	1:E:486:GLN:HG3	1.87	0.73
1:E:1355:PRO:HB2	1:E:1555:PHE:CE2	2.23	0.73
1:A:342:ASP:HB2	1:A:358:LYS:CG	2.18	0.73
1:C:319:ASN:OD1	1:C:324:THR:HG22	1.88	0.73
1:C:605:LEU:O	1:C:605:LEU:HD13	1.89	0.73
1:A:1312:ILE:CD1	1:A:1574:VAL:HG22	2.18	0.73
1:B:746:VAL:O	1:B:749:GLN:HG3	1.86	0.73
1:B:814:LEU:HD13	1:B:821:VAL:HG21	1.70	0.73
1:B:1406:PRO:CG	1:B:1473:MET:HE1	2.11	0.73
1:B:1421:ARG:NH2	1:B:1423:LEU:HD21	2.02	0.73
1:C:814:LEU:HD13	1:C:821:VAL:HG21	1.70	0.73
1:D:368:LEU:HB3	1:D:381:THR:CG2	2.18	0.73
1:A:1316:VAL:CG2	1:A:1572:ILE:HA	2.19	0.73
1:B:1360:ILE:CD1	1:B:1527:GLU:HG3	2.18	0.73
1:C:327:VAL:HG11	1:C:436:PHE:CE1	2.23	0.73
1:C:540:SER:CB	1:C:560:VAL:HA	2.19	0.73
1:C:1316:VAL:HG21	1:C:1572:ILE:CA	2.19	0.73
1:D:555:PHE:HE1	1:D:589:TYR:CD1	2.02	0.73
1:D:1340:ILE:HG12	1:D:1572:ILE:HG21	1.70	0.73
1:D:1408:TYR:CD1	1:D:1467:LEU:HD12	2.24	0.73
1:E:540:SER:CB	1:E:560:VAL:HA	2.19	0.73
1:E:1316:VAL:HG21	1:E:1572:ILE:CA	2.19	0.73
1:B:264:TYR:HA	1:B:438:LEU:HD11	1.69	0.73
1:C:218:LEU:HD21	1:C:239:ILE:CG2	2.11	0.73
1:C:264:TYR:HA	1:C:438:LEU:HD11	1.69	0.73
1:C:1357:LEU:CD1	1:C:1555:PHE:HB3	2.18	0.73
1:C:1408:TYR:CD1	1:C:1467:LEU:HD12	2.24	0.73
1:E:342:ASP:HB2	1:E:358:LYS:CG	2.18	0.73
1:E:1404:PHE:HE1	1:E:1426:ARG:HD3	1.53	0.73
1:A:319:ASN:OD1	1:A:324:THR:HG22	1.88	0.72
1:A:540:SER:CB	1:A:560:VAL:HA	2.19	0.72
1:A:557:ILE:HG23	1:A:561:SER:HB3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:605:LEU:O	1:A:605:LEU:HD13	1.89	0.72
1:A:1340:ILE:HG12	1:A:1572:ILE:HG21	1.70	0.72
1:A:1404:PHE:HE1	1:A:1426:ARG:HD3	1.53	0.72
1:B:482:LYS:O	1:B:486:GLN:HG3	1.87	0.72
1:B:493:GLU:HB3	1:B:517:ARG:HH21	1.54	0.72
1:B:661:LYS:HA	1:B:753:VAL:HG11	1.68	0.72
1:E:1408:TYR:CD1	1:E:1467:LEU:HD12	2.24	0.72
1:B:1316:VAL:HG21	1:B:1572:ILE:CA	2.19	0.72
1:B:1340:ILE:HG12	1:B:1572:ILE:HG21	1.70	0.72
1:B:1492:ALA:O	1:B:1560:GLU:HB2	1.88	0.72
1:D:218:LEU:HD21	1:D:239:ILE:CG2	2.11	0.72
1:D:1391:LEU:HD22	1:D:1483:VAL:HG12	1.69	0.72
1:A:227:ILE:CD1	1:A:883:VAL:HB	2.13	0.72
1:A:1474:THR:HG22	1:A:1480:ALA:HA	1.72	0.72
1:B:243:ILE:HG23	1:B:247:LEU:HD22	1.71	0.72
1:C:1408:TYR:CG	1:C:1467:LEU:HD12	2.25	0.72
1:D:243:ILE:HG23	1:D:247:LEU:HD22	1.71	0.72
1:D:540:SER:CB	1:D:560:VAL:HA	2.19	0.72
1:B:1316:VAL:CB	1:B:1572:ILE:HA	2.19	0.72
1:C:342:ASP:HB2	1:C:358:LYS:CG	2.18	0.72
1:C:660:ASN:O	1:C:753:VAL:HG11	1.88	0.72
1:D:327:VAL:HG11	1:D:436:PHE:CE1	2.23	0.72
1:E:493:GLU:HB3	1:E:517:ARG:HH21	1.54	0.72
1:E:605:LEU:O	1:E:605:LEU:HD13	1.89	0.72
1:E:1316:VAL:CG2	1:E:1572:ILE:HA	2.19	0.72
1:E:1474:THR:HG22	1:E:1480:ALA:HA	1.72	0.72
1:A:260:ALA:HB1	1:A:432:ASN:HD21	1.54	0.72
1:A:1492:ALA:O	1:A:1560:GLU:HB2	1.88	0.72
1:B:1316:VAL:CG2	1:B:1572:ILE:HA	2.19	0.72
1:B:1408:TYR:CD1	1:B:1467:LEU:HD12	2.24	0.72
1:D:659:TYR:CD1	1:D:757:GLN:HB2	2.25	0.72
1:E:260:ALA:HB1	1:E:432:ASN:HD21	1.54	0.72
1:E:1312:ILE:CD1	1:E:1574:VAL:HG22	2.17	0.72
1:E:1408:TYR:CG	1:E:1467:LEU:HD12	2.25	0.72
1:E:1492:ALA:O	1:E:1560:GLU:HB2	1.88	0.72
1:A:661:LYS:HB3	1:A:750:GLU:HA	1.72	0.72
1:A:835:LEU:HD23	1:A:835:LEU:O	1.88	0.72
1:C:493:GLU:HB3	1:C:517:ARG:HH21	1.54	0.72
1:C:688:LEU:O	1:C:691:VAL:HG12	1.90	0.72
1:C:1316:VAL:CB	1:C:1572:ILE:HA	2.19	0.72
1:D:605:LEU:O	1:D:605:LEU:HD13	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1404:PHE:HE1	1:D:1426:ARG:HD3	1.53	0.72
1:D:1408:TYR:CG	1:D:1467:LEU:HD12	2.25	0.72
1:E:295:GLN:HB3	1:E:454:PRO:HD2	1.71	0.72
1:E:557:ILE:HG23	1:E:561:SER:HB3	1.71	0.72
1:E:1340:ILE:CG2	1:E:1351:ILE:HD11	2.20	0.72
1:A:539:ASN:HA	1:A:563:PHE:CE1	2.25	0.72
1:A:660:ASN:O	1:A:753:VAL:HG11	1.88	0.72
1:A:1316:VAL:HG21	1:A:1572:ILE:CA	2.19	0.72
1:A:1408:TYR:CD1	1:A:1467:LEU:HD12	2.24	0.72
1:A:1459:ASP:HB3	1:A:1462:ASN:ND2	2.02	0.72
1:B:850:SER:O	1:B:854:GLN:HG3	1.90	0.72
1:B:1357:LEU:HD23	1:B:1530:TYR:HD2	1.55	0.72
1:E:659:TYR:CD1	1:E:757:GLN:HB2	2.25	0.72
1:B:319:ASN:OD1	1:B:324:THR:HG22	1.88	0.72
1:D:295:GLN:HB3	1:D:454:PRO:HD2	1.71	0.72
1:D:1316:VAL:HG21	1:D:1572:ILE:CA	2.19	0.72
1:E:368:LEU:HB3	1:E:381:THR:CG2	2.18	0.72
1:A:493:GLU:HB3	1:A:517:ARG:HH21	1.54	0.72
1:A:1367:GLN:HA	1:A:1370:ASN:HD22	1.55	0.72
1:B:540:SER:CB	1:B:560:VAL:HA	2.19	0.72
1:B:1367:GLN:HA	1:B:1370:ASN:HD22	1.55	0.72
1:B:1474:THR:HG22	1:B:1480:ALA:HA	1.72	0.72
1:C:539:ASN:HA	1:C:563:PHE:CE1	2.25	0.72
1:C:540:SER:HB2	1:C:560:VAL:HA	1.71	0.72
1:C:659:TYR:CD1	1:C:757:GLN:HB2	2.25	0.72
1:C:661:LYS:HB3	1:C:750:GLU:HA	1.72	0.72
1:E:835:LEU:O	1:E:835:LEU:HD23	1.88	0.72
1:A:850:SER:O	1:A:854:GLN:HG3	1.90	0.72
1:A:1357:LEU:HD23	1:A:1530:TYR:HD2	1.55	0.72
1:B:1340:ILE:CG2	1:B:1351:ILE:HD11	2.19	0.72
1:D:1316:VAL:CB	1:D:1572:ILE:HA	2.19	0.72
1:D:1357:LEU:HD23	1:D:1530:TYR:HD2	1.55	0.72
1:D:1474:THR:HG22	1:D:1480:ALA:HA	1.72	0.72
1:B:1391:LEU:HD22	1:B:1483:VAL:HG12	1.69	0.71
1:C:243:ILE:HG23	1:C:247:LEU:HD22	1.71	0.71
1:C:557:ILE:CD1	1:C:592:LYS:HD2	2.13	0.71
1:D:497:ILE:HG21	1:D:589:TYR:CE2	2.25	0.71
1:D:502:PRO:HB2	1:D:582:LEU:CD2	2.20	0.71
1:D:1340:ILE:CG2	1:D:1351:ILE:HD11	2.20	0.71
1:E:497:ILE:HG21	1:E:589:TYR:CE2	2.25	0.71
1:A:264:TYR:HB2	1:A:434:TYR:HB3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1340:ILE:CG2	1:A:1351:ILE:HD11	2.20	0.71
1:C:1340:ILE:CG2	1:C:1351:ILE:HD11	2.19	0.71
1:D:659:TYR:HA	1:D:757:GLN:HB2	1.72	0.71
1:E:264:TYR:HB2	1:E:434:TYR:HB3	1.72	0.71
1:A:659:TYR:HA	1:A:757:GLN:HB2	1.72	0.71
1:B:497:ILE:HG21	1:B:589:TYR:CE2	2.25	0.71
1:B:1404:PHE:HE1	1:B:1426:ARG:HD3	1.53	0.71
1:B:1459:ASP:HB3	1:B:1462:ASN:ND2	2.02	0.71
1:D:440:LEU:O	1:D:440:LEU:HD13	1.91	0.71
1:D:493:GLU:HB3	1:D:517:ARG:HH21	1.54	0.71
1:E:850:SER:O	1:E:854:GLN:HG3	1.90	0.71
1:B:295:GLN:HB3	1:B:454:PRO:HD2	1.71	0.71
1:B:1408:TYR:CG	1:B:1467:LEU:HD12	2.25	0.71
1:C:295:GLN:HB3	1:C:454:PRO:HD2	1.71	0.71
1:C:850:SER:O	1:C:854:GLN:HG3	1.90	0.71
1:C:1380:LYS:HG3	1:C:1413:ASN:HD21	1.56	0.71
1:C:1459:ASP:HB3	1:C:1462:ASN:ND2	2.02	0.71
1:D:255:ILE:HD12	1:D:442:LYS:HZ1	1.55	0.71
1:D:260:ALA:HB1	1:D:432:ASN:HD21	1.54	0.71
1:D:540:SER:HB2	1:D:560:VAL:HA	1.72	0.71
1:A:288:LEU:CD2	1:A:448:ARG:HD3	2.16	0.71
1:A:659:TYR:CD1	1:A:757:GLN:HB2	2.25	0.71
1:B:641:LEU:HD11	1:B:651:LEU:HD22	1.73	0.71
1:C:1391:LEU:HD22	1:C:1483:VAL:HG12	1.69	0.71
1:D:484:TYR:OH	1:D:631:ILE:HD13	1.91	0.71
1:D:1423:LEU:CD2	1:D:1456:TYR:HB3	2.20	0.71
1:A:1316:VAL:CB	1:A:1572:ILE:HA	2.19	0.71
1:B:605:LEU:O	1:B:605:LEU:HD13	1.89	0.71
1:B:1312:ILE:CD1	1:B:1574:VAL:HG22	2.18	0.71
1:B:1374:LEU:HD21	1:B:1425:HIS:HB2	1.72	0.71
1:C:854:GLN:OE1	1:C:864:PRO:HG3	1.91	0.71
1:C:1423:LEU:CD2	1:C:1456:TYR:HB3	2.20	0.71
1:D:464:VAL:HG11	1:D:477:LYS:HD2	1.73	0.71
1:D:654:MET:O	1:D:761:GLN:HG3	1.91	0.71
1:D:688:LEU:O	1:D:691:VAL:HG12	1.90	0.71
1:E:283:LYS:HG3	1:E:288:LEU:O	1.91	0.71
1:A:295:GLN:HB3	1:A:454:PRO:HD2	1.71	0.71
1:A:540:SER:HB2	1:A:560:VAL:HA	1.71	0.71
1:A:688:LEU:O	1:A:691:VAL:HG12	1.90	0.71
1:A:696:ILE:CD1	1:A:712:LEU:HD21	2.20	0.71
1:A:1408:TYR:CG	1:A:1467:LEU:HD12	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1423:LEU:CD2	1:A:1456:TYR:HB3	2.20	0.71
1:B:264:TYR:CB	1:B:438:LEU:HD11	2.21	0.71
1:B:484:TYR:OH	1:B:631:ILE:HD13	1.91	0.71
1:B:539:ASN:HA	1:B:563:PHE:HD1	1.56	0.71
1:B:540:SER:HB2	1:B:560:VAL:HA	1.72	0.71
1:C:502:PRO:HB2	1:C:582:LEU:CD2	2.21	0.71
1:C:654:MET:O	1:C:761:GLN:HG3	1.91	0.71
1:C:696:ILE:CD1	1:C:712:LEU:HD21	2.20	0.71
1:C:1367:GLN:HA	1:C:1370:ASN:HD22	1.55	0.71
1:C:1474:THR:HG22	1:C:1480:ALA:HA	1.72	0.71
1:D:227:ILE:CD1	1:D:883:VAL:HB	2.13	0.71
1:E:502:PRO:HB2	1:E:582:LEU:CD2	2.21	0.71
1:E:641:LEU:HD11	1:E:651:LEU:HD22	1.73	0.71
1:A:283:LYS:HG3	1:A:288:LEU:O	1.91	0.71
1:B:260:ALA:HB1	1:B:432:ASN:HD21	1.54	0.71
1:B:464:VAL:HG11	1:B:477:LYS:HD2	1.73	0.71
1:C:497:ILE:HG21	1:C:589:TYR:CE2	2.25	0.71
1:C:539:ASN:HA	1:C:563:PHE:HD1	1.56	0.71
1:D:696:ILE:CD1	1:D:712:LEU:HD21	2.20	0.71
1:E:539:ASN:HA	1:E:563:PHE:CE1	2.25	0.71
1:A:440:LEU:O	1:A:440:LEU:HD13	1.91	0.71
1:A:497:ILE:HG21	1:A:589:TYR:CE2	2.25	0.71
1:B:502:PRO:HB2	1:B:582:LEU:CD2	2.20	0.71
1:B:633:LYS:HB2	1:B:633:LYS:HZ3	1.54	0.71
1:B:696:ILE:CD1	1:B:712:LEU:HD21	2.20	0.71
1:C:654:MET:CE	1:C:765:VAL:HA	2.15	0.71
1:C:1320:LYS:CD	1:C:1571:SER:HB2	2.19	0.71
1:E:659:TYR:HA	1:E:757:GLN:HB2	1.72	0.71
1:A:363:TYR:CZ	1:A:414:LEU:HD23	2.26	0.71
1:A:854:GLN:OE1	1:A:864:PRO:HG3	1.91	0.71
1:B:659:TYR:CD1	1:B:757:GLN:HB2	2.25	0.71
1:C:659:TYR:HA	1:C:757:GLN:HB2	1.72	0.71
1:C:1374:LEU:HD21	1:C:1425:HIS:HB2	1.72	0.71
1:D:264:TYR:CB	1:D:438:LEU:HD11	2.21	0.71
1:D:850:SER:O	1:D:854:GLN:HG3	1.90	0.71
1:A:484:TYR:OH	1:A:631:ILE:HD13	1.91	0.70
1:A:502:PRO:HB2	1:A:582:LEU:CD2	2.20	0.70
1:B:288:LEU:CD2	1:B:448:ARG:HD3	2.16	0.70
1:B:539:ASN:HA	1:B:563:PHE:CE1	2.25	0.70
1:B:1423:LEU:CD2	1:B:1456:TYR:HB3	2.20	0.70
1:C:484:TYR:OH	1:C:631:ILE:HD13	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:529:PHE:HE2	1:C:546:TRP:HZ2	1.39	0.70
1:D:854:GLN:OE1	1:D:864:PRO:HG3	1.91	0.70
1:E:1327:TYR:CE2	1:E:1563:ARG:HB3	2.26	0.70
1:A:529:PHE:CB	1:A:531:THR:HG23	2.21	0.70
1:B:688:LEU:O	1:B:691:VAL:HG12	1.90	0.70
1:B:1380:LYS:HG3	1:B:1413:ASN:HD21	1.56	0.70
1:C:276:LEU:HD23	1:C:437:LEU:CD1	2.21	0.70
1:C:363:TYR:CZ	1:C:414:LEU:HD23	2.27	0.70
1:C:440:LEU:O	1:C:440:LEU:HD13	1.91	0.70
1:C:860:PRO:CB	1:C:872:THR:HG21	2.22	0.70
1:E:688:LEU:O	1:E:691:VAL:HG12	1.90	0.70
1:E:745:ALA:HB3	1:E:749:GLN:CD	2.12	0.70
1:A:706:ASN:OD1	1:A:777:ARG:HD2	1.92	0.70
1:B:276:LEU:HD23	1:B:437:LEU:CD1	2.21	0.70
1:B:378:LEU:HD13	1:B:395:ILE:HD12	1.73	0.70
1:B:860:PRO:CB	1:B:872:THR:HG21	2.21	0.70
1:C:283:LYS:HG3	1:C:288:LEU:O	1.91	0.70
1:D:264:TYR:HB2	1:D:434:TYR:HB3	1.72	0.70
1:D:276:LEU:HD23	1:D:437:LEU:CD1	2.21	0.70
1:D:745:ALA:HB3	1:D:749:GLN:CD	2.12	0.70
1:D:1338:PRO:HD2	1:D:1354:SER:O	1.91	0.70
1:D:1367:GLN:HA	1:D:1370:ASN:HD22	1.55	0.70
1:E:378:LEU:HD13	1:E:395:ILE:HD12	1.74	0.70
1:A:1374:LEU:HD21	1:A:1425:HIS:HB2	1.72	0.70
1:A:1380:LYS:HG3	1:A:1413:ASN:HD21	1.55	0.70
1:B:854:GLN:OE1	1:B:864:PRO:HG3	1.91	0.70
1:C:264:TYR:HB2	1:C:434:TYR:HB3	1.72	0.70
1:C:730:PHE:CE2	1:C:734:LEU:HD11	2.27	0.70
1:B:529:PHE:CB	1:B:531:THR:HG23	2.21	0.70
1:B:661:LYS:HB3	1:B:750:GLU:HA	1.72	0.70
1:D:641:LEU:HD11	1:D:651:LEU:HD22	1.73	0.70
1:E:464:VAL:HG11	1:E:477:LYS:HD2	1.73	0.70
1:E:661:LYS:HB3	1:E:750:GLU:HA	1.72	0.70
1:E:696:ILE:CD1	1:E:712:LEU:HD21	2.20	0.70
1:E:1316:VAL:CB	1:E:1572:ILE:HA	2.19	0.70
1:A:276:LEU:HD23	1:A:437:LEU:CD1	2.21	0.70
1:A:730:PHE:CE2	1:A:734:LEU:HD11	2.27	0.70
1:B:218:LEU:HD21	1:B:239:ILE:CG2	2.11	0.70
1:B:706:ASN:OD1	1:B:777:ARG:HD2	1.92	0.70
1:B:1327:TYR:CE2	1:B:1563:ARG:HB3	2.27	0.70
1:D:283:LYS:HG3	1:D:288:LEU:O	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:539:ASN:HA	1:D:563:PHE:CE1	2.25	0.70
1:D:539:ASN:HA	1:D:563:PHE:HD1	1.56	0.70
1:D:860:PRO:CB	1:D:872:THR:HG21	2.21	0.70
1:E:1338:PRO:HD2	1:E:1354:SER:O	1.91	0.70
1:E:1380:LYS:HG3	1:E:1413:ASN:HD21	1.56	0.70
1:A:363:TYR:HE2	1:A:414:LEU:N	1.90	0.70
1:A:539:ASN:HA	1:A:563:PHE:HD1	1.56	0.70
1:B:529:PHE:HE2	1:B:546:TRP:HZ2	1.40	0.70
1:B:659:TYR:HA	1:B:757:GLN:HB2	1.72	0.70
1:C:706:ASN:OD1	1:C:777:ARG:HD2	1.92	0.70
1:D:661:LYS:HB3	1:D:750:GLU:HA	1.72	0.70
1:E:529:PHE:CB	1:E:531:THR:HG23	2.21	0.70
1:E:713:LEU:HD13	1:E:781:THR:CG2	2.20	0.70
1:E:730:PHE:CE2	1:E:734:LEU:HD11	2.27	0.70
1:E:1367:GLN:HA	1:E:1370:ASN:HD22	1.55	0.70
1:A:1320:LYS:CD	1:A:1571:SER:HB2	2.19	0.70
1:C:1327:TYR:CE2	1:C:1563:ARG:HB3	2.27	0.70
1:D:363:TYR:HE2	1:D:414:LEU:N	1.90	0.70
1:D:1380:LYS:HG3	1:D:1413:ASN:HD21	1.56	0.70
1:E:363:TYR:CZ	1:E:414:LEU:HD23	2.26	0.70
1:E:440:LEU:O	1:E:440:LEU:HD13	1.91	0.70
1:E:484:TYR:OH	1:E:631:ILE:HD13	1.91	0.70
1:A:860:PRO:CB	1:A:872:THR:HG21	2.21	0.70
1:C:264:TYR:CB	1:C:438:LEU:HD11	2.21	0.70
1:E:363:TYR:HE2	1:E:414:LEU:N	1.90	0.70
1:E:540:SER:HB2	1:E:560:VAL:HA	1.71	0.70
1:A:264:TYR:CB	1:A:438:LEU:HD11	2.21	0.70
1:A:745:ALA:HB3	1:A:749:GLN:CD	2.12	0.70
1:B:283:LYS:HG3	1:B:288:LEU:O	1.91	0.70
1:C:1357:LEU:HD23	1:C:1530:TYR:HD2	1.55	0.70
1:D:255:ILE:HD12	1:D:442:LYS:NZ	2.07	0.70
1:D:730:PHE:CE2	1:D:734:LEU:HD11	2.27	0.70
1:E:255:ILE:HD12	1:E:442:LYS:NZ	2.07	0.70
1:E:264:TYR:CB	1:E:438:LEU:HD11	2.21	0.70
1:E:860:PRO:CB	1:E:872:THR:HG21	2.22	0.70
1:E:1357:LEU:HD23	1:E:1530:TYR:HD2	1.55	0.70
1:E:1459:ASP:HB3	1:E:1462:ASN:ND2	2.02	0.70
1:A:503:ILE:H	1:A:582:LEU:HD11	1.57	0.69
1:A:641:LEU:HD11	1:A:651:LEU:HD22	1.73	0.69
1:D:275:SER:HA	1:D:278:MET:CE	2.22	0.69
1:D:363:TYR:CZ	1:D:414:LEU:HD23	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:529:PHE:HE2	1:D:546:TRP:HZ2	1.40	0.69
1:D:1327:TYR:CE2	1:D:1563:ARG:HB3	2.27	0.69
1:E:275:SER:HA	1:E:278:MET:CE	2.22	0.69
1:E:654:MET:O	1:E:761:GLN:HG3	1.91	0.69
1:E:706:ASN:OD1	1:E:777:ARG:HD2	1.92	0.69
1:E:778:LEU:O	1:E:778:LEU:HD23	1.92	0.69
1:E:1423:LEU:CD2	1:E:1456:TYR:HB3	2.20	0.69
1:E:1468:LYS:HA	1:E:1468:LYS:CE	2.13	0.69
1:A:555:PHE:CE1	1:A:589:TYR:HD1	2.05	0.69
1:B:440:LEU:O	1:B:440:LEU:HD13	1.91	0.69
1:C:529:PHE:CB	1:C:531:THR:HG23	2.21	0.69
1:D:402:ILE:HG23	1:D:428:VAL:HG13	1.74	0.69
1:E:218:LEU:HD21	1:E:239:ILE:CG2	2.11	0.69
1:E:276:LEU:HD23	1:E:437:LEU:CD1	2.21	0.69
1:E:854:GLN:OE1	1:E:864:PRO:HG3	1.91	0.69
1:A:1411:SER:OG	1:A:1419:GLN:HA	1.92	0.69
1:B:745:ALA:HB3	1:B:749:GLN:CD	2.12	0.69
1:D:503:ILE:H	1:D:582:LEU:HD11	1.57	0.69
1:D:778:LEU:O	1:D:778:LEU:HD23	1.93	0.69
1:D:1374:LEU:HD21	1:D:1425:HIS:HB2	1.72	0.69
1:E:779:PHE:CE1	1:E:804:LEU:HD21	2.28	0.69
1:E:1374:LEU:HD21	1:E:1425:HIS:HB2	1.72	0.69
1:B:363:TYR:CZ	1:B:414:LEU:HD23	2.27	0.69
1:B:1411:SER:OG	1:B:1419:GLN:HA	1.92	0.69
1:B:1542:LEU:HD21	1:B:1549:ALA:HB1	1.73	0.69
1:C:275:SER:HA	1:C:278:MET:CE	2.22	0.69
1:C:778:LEU:HD23	1:C:778:LEU:O	1.92	0.69
1:C:1312:ILE:CD1	1:C:1574:VAL:HG22	2.17	0.69
1:D:378:LEU:HD13	1:D:395:ILE:HD12	1.73	0.69
1:E:654:MET:CE	1:E:765:VAL:HA	2.15	0.69
1:A:378:LEU:HD13	1:A:395:ILE:HD12	1.73	0.69
1:A:778:LEU:HD23	1:A:778:LEU:O	1.92	0.69
1:A:779:PHE:CE1	1:A:804:LEU:HD21	2.28	0.69
1:B:654:MET:O	1:B:761:GLN:HG3	1.91	0.69
1:C:363:TYR:HE2	1:C:414:LEU:N	1.90	0.69
1:D:1312:ILE:CD1	1:D:1574:VAL:HG22	2.17	0.69
1:D:1320:LYS:CD	1:D:1571:SER:HB2	2.19	0.69
1:B:264:TYR:HB2	1:B:434:TYR:HB3	1.72	0.69
1:B:730:PHE:CE2	1:B:734:LEU:HD11	2.27	0.69
1:C:464:VAL:HG11	1:C:477:LYS:HD2	1.73	0.69
1:C:503:ILE:H	1:C:582:LEU:HD11	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1542:LEU:HD21	1:C:1549:ALA:HB1	1.73	0.69
1:D:529:PHE:CB	1:D:531:THR:HG23	2.21	0.69
1:A:464:VAL:HG11	1:A:477:LYS:HD2	1.73	0.69
1:B:713:LEU:HD13	1:B:781:THR:CG2	2.20	0.69
1:C:402:ILE:HG23	1:C:428:VAL:HG13	1.74	0.69
1:C:1338:PRO:HD2	1:C:1354:SER:O	1.91	0.69
1:E:260:ALA:CB	1:E:432:ASN:HD21	2.06	0.69
1:A:255:ILE:HD12	1:A:442:LYS:NZ	2.07	0.69
1:A:654:MET:O	1:A:761:GLN:HG3	1.91	0.69
1:A:880:TRP:O	1:A:883:VAL:HG12	1.93	0.69
1:A:1327:TYR:CE2	1:A:1563:ARG:HB3	2.27	0.69
1:A:1338:PRO:HD2	1:A:1354:SER:O	1.91	0.69
1:A:1542:LEU:HD21	1:A:1549:ALA:HB1	1.73	0.69
1:B:363:TYR:HE2	1:B:414:LEU:N	1.90	0.69
1:C:378:LEU:HD13	1:C:395:ILE:HD12	1.74	0.69
1:C:524:LEU:HD22	1:C:549:THR:CG2	2.16	0.69
1:C:641:LEU:HD11	1:C:651:LEU:HD22	1.73	0.69
1:C:1406:PRO:CG	1:C:1473:MET:HE1	2.13	0.69
1:C:1490:ASN:CB	1:C:1560:GLU:HB3	2.23	0.69
1:E:288:LEU:CD2	1:E:448:ARG:HD3	2.16	0.69
1:E:464:VAL:CG2	1:E:474:VAL:HG22	2.20	0.69
1:E:503:ILE:H	1:E:582:LEU:HD11	1.57	0.69
1:A:260:ALA:CB	1:A:432:ASN:HD21	2.06	0.69
1:A:807:PHE:HD1	1:A:871:TRP:CH2	2.11	0.69
1:B:1338:PRO:HD2	1:B:1354:SER:O	1.91	0.69
1:C:561:SER:OG	1:C:602:ILE:HD12	1.93	0.69
1:C:745:ALA:HB3	1:C:749:GLN:CD	2.12	0.69
1:D:622:ILE:CG1	1:D:626:GLN:HG3	2.17	0.69
1:E:633:LYS:HB2	1:E:633:LYS:HZ3	1.57	0.69
1:E:1556:THR:HG22	1:E:1567:TYR:CB	2.23	0.69
1:B:255:ILE:HD12	1:B:442:LYS:NZ	2.07	0.69
1:B:807:PHE:HD1	1:B:871:TRP:CH2	2.11	0.69
1:B:880:TRP:O	1:B:883:VAL:HG12	1.93	0.69
1:D:706:ASN:OD1	1:D:777:ARG:HD2	1.92	0.69
1:D:1406:PRO:HG3	1:D:1473:MET:CE	2.16	0.69
1:D:1556:THR:HG22	1:D:1567:TYR:CB	2.23	0.69
1:E:880:TRP:O	1:E:883:VAL:HG12	1.93	0.69
1:E:1490:ASN:CB	1:E:1560:GLU:HB3	2.23	0.69
1:A:529:PHE:CE2	1:A:546:TRP:HZ2	2.12	0.68
1:B:529:PHE:CE2	1:B:546:TRP:HZ2	2.12	0.68
1:B:561:SER:OG	1:B:602:ILE:HD12	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:296:PHE:HZ	1:D:447:SER:HB2	1.58	0.68
1:D:529:PHE:CE2	1:D:546:TRP:HZ2	2.12	0.68
1:D:1542:LEU:HD21	1:D:1549:ALA:HB1	1.73	0.68
1:E:529:PHE:HE2	1:E:546:TRP:HZ2	1.39	0.68
1:A:493:GLU:OE1	1:A:514:GLN:HG3	1.93	0.68
1:B:778:LEU:O	1:B:778:LEU:HD23	1.92	0.68
1:B:779:PHE:CE1	1:B:804:LEU:HD21	2.28	0.68
1:C:255:ILE:HD12	1:C:442:LYS:NZ	2.07	0.68
1:C:779:PHE:CE1	1:C:804:LEU:HD21	2.28	0.68
1:E:493:GLU:OE1	1:E:514:GLN:HG3	1.93	0.68
1:A:852:GLN:HB3	1:A:880:TRP:CZ2	2.28	0.68
1:B:275:SER:HA	1:B:278:MET:CE	2.22	0.68
1:B:503:ILE:H	1:B:582:LEU:HD11	1.58	0.68
1:C:529:PHE:CE2	1:C:546:TRP:HZ2	2.11	0.68
1:D:464:VAL:CG2	1:D:474:VAL:HG22	2.20	0.68
1:E:1320:LYS:CD	1:E:1571:SER:HB2	2.19	0.68
1:A:275:SER:HA	1:A:278:MET:CE	2.22	0.68
1:B:341:MET:HE3	1:B:422:ALA:HB3	1.76	0.68
1:C:296:PHE:HZ	1:C:447:SER:HB2	1.58	0.68
1:C:557:ILE:CG2	1:C:561:SER:HB3	2.24	0.68
1:D:852:GLN:HB3	1:D:880:TRP:CZ2	2.28	0.68
1:A:233:GLN:HA	1:A:236:LEU:HD12	1.75	0.68
1:B:493:GLU:OE1	1:B:514:GLN:HG3	1.93	0.68
1:C:260:ALA:CB	1:C:432:ASN:HD21	2.06	0.68
1:C:464:VAL:CG2	1:C:474:VAL:HG22	2.20	0.68
1:C:852:GLN:HB3	1:C:880:TRP:CZ2	2.28	0.68
1:C:880:TRP:O	1:C:883:VAL:HG12	1.93	0.68
1:C:1320:LYS:HD2	1:C:1571:SER:CB	2.22	0.68
1:D:260:ALA:CB	1:D:432:ASN:HD21	2.06	0.68
1:D:880:TRP:O	1:D:883:VAL:HG12	1.93	0.68
1:E:557:ILE:CD1	1:E:592:LYS:HD2	2.13	0.68
1:E:852:GLN:HB3	1:E:880:TRP:CZ2	2.28	0.68
1:E:1542:LEU:HD22	1:E:1549:ALA:HB1	1.76	0.68
1:A:529:PHE:HE2	1:A:546:TRP:HZ2	1.40	0.68
1:A:1556:THR:HG22	1:A:1567:TYR:CB	2.23	0.68
1:B:777:ARG:O	1:B:781:THR:HG23	1.94	0.68
1:C:288:LEU:CD2	1:C:448:ARG:HD3	2.16	0.68
1:C:714:TRP:CD1	1:C:718:LEU:HG	2.29	0.68
1:C:1411:SER:OG	1:C:1419:GLN:HA	1.92	0.68
1:E:529:PHE:CE2	1:E:546:TRP:HZ2	2.11	0.68
1:A:561:SER:OG	1:A:602:ILE:HD12	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:746:VAL:HG12	1:A:748:THR:H	1.59	0.68
1:B:599:GLN:C	1:B:600:LEU:HD12	2.14	0.68
1:B:852:GLN:HB3	1:B:880:TRP:CZ2	2.28	0.68
1:C:807:PHE:HD1	1:C:871:TRP:CH2	2.11	0.68
1:D:1411:SER:OG	1:D:1419:GLN:HA	1.92	0.68
1:D:1542:LEU:HD22	1:D:1549:ALA:HB1	1.76	0.68
1:E:1542:LEU:HD21	1:E:1549:ALA:HB1	1.73	0.68
1:A:659:TYR:HD1	1:A:757:GLN:CB	2.07	0.68
1:B:714:TRP:CD1	1:B:718:LEU:HG	2.29	0.68
1:C:493:GLU:OE1	1:C:514:GLN:HG3	1.93	0.68
1:D:599:GLN:C	1:D:600:LEU:HD12	2.14	0.68
1:D:779:PHE:CE1	1:D:804:LEU:HD21	2.28	0.68
1:E:434:TYR:O	1:E:438:LEU:HD12	1.94	0.68
1:A:355:LEU:HD12	1:A:357:TYR:CD1	2.29	0.68
1:B:1426:ARG:HH11	1:B:1428:THR:HB	1.59	0.68
1:C:777:ARG:O	1:C:781:THR:HG23	1.94	0.68
1:D:561:SER:OG	1:D:602:ILE:HD12	1.93	0.68
1:D:1426:ARG:HH11	1:D:1428:THR:HB	1.59	0.68
1:D:1459:ASP:HB3	1:D:1462:ASN:ND2	2.02	0.68
1:E:707:VAL:O	1:E:711:VAL:HG23	1.94	0.68
1:E:714:TRP:CD1	1:E:718:LEU:HG	2.29	0.68
1:E:777:ARG:O	1:E:781:THR:HG23	1.94	0.68
1:E:1426:ARG:HH11	1:E:1428:THR:HB	1.59	0.68
1:A:296:PHE:HZ	1:A:447:SER:HB2	1.58	0.68
1:A:402:ILE:HG23	1:A:428:VAL:HG13	1.74	0.68
1:A:524:LEU:HD22	1:A:549:THR:CG2	2.17	0.68
1:A:777:ARG:O	1:A:781:THR:HG23	1.94	0.68
1:B:402:ILE:HG23	1:B:428:VAL:HG11	1.76	0.68
1:B:604:GLU:HG2	1:B:649:PHE:CE1	2.29	0.68
1:C:471:ASN:O	1:C:475:LEU:HD23	1.94	0.68
1:C:707:VAL:O	1:C:711:VAL:HG23	1.94	0.68
1:C:1342:TYR:HB2	1:C:1349:LEU:HD11	1.76	0.68
1:D:233:GLN:HA	1:D:236:LEU:HD12	1.75	0.68
1:E:557:ILE:CG2	1:E:561:SER:HB3	2.24	0.68
1:B:1384:LYS:HG3	1:B:1489:ILE:O	1.94	0.67
1:C:1384:LYS:HG3	1:C:1489:ILE:O	1.94	0.67
1:C:1385:PHE:HA	1:C:1410:TYR:HD1	1.59	0.67
1:D:434:TYR:O	1:D:438:LEU:HD12	1.94	0.67
1:D:471:ASN:O	1:D:475:LEU:HD23	1.94	0.67
1:E:807:PHE:HD1	1:E:871:TRP:CH2	2.11	0.67
1:C:355:LEU:HD12	1:C:357:TYR:CD1	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1384:LYS:HG3	1:D:1489:ILE:O	1.94	0.67
1:E:1411:SER:OG	1:E:1419:GLN:HA	1.92	0.67
1:A:341:MET:HE3	1:A:410:LEU:HB2	1.75	0.67
1:A:674:VAL:CG1	1:A:678:LEU:HD13	2.25	0.67
1:A:1426:ARG:HH11	1:A:1428:THR:HB	1.59	0.67
1:B:471:ASN:O	1:B:475:LEU:HD23	1.94	0.67
1:B:659:TYR:HD1	1:B:757:GLN:CB	2.07	0.67
1:C:402:ILE:HG23	1:C:428:VAL:HG11	1.76	0.67
1:C:713:LEU:HD13	1:C:781:THR:CG2	2.20	0.67
1:D:707:VAL:O	1:D:711:VAL:HG23	1.94	0.67
1:E:296:PHE:HZ	1:E:447:SER:HB2	1.58	0.67
1:E:382:GLU:OE1	1:E:382:GLU:HA	1.95	0.67
1:E:608:LEU:HB2	1:E:648:VAL:CG1	2.25	0.67
1:E:622:ILE:CG1	1:E:626:GLN:HG3	2.17	0.67
1:B:608:LEU:HB2	1:B:648:VAL:CG1	2.25	0.67
1:B:1385:PHE:HA	1:B:1410:TYR:HD1	1.60	0.67
1:D:1468:LYS:HA	1:D:1468:LYS:CE	2.13	0.67
1:A:402:ILE:HG23	1:A:428:VAL:HG11	1.76	0.67
1:A:557:ILE:CG2	1:A:561:SER:HB3	2.24	0.67
1:A:599:GLN:C	1:A:600:LEU:HD12	2.14	0.67
1:A:714:TRP:CD1	1:A:718:LEU:HG	2.29	0.67
1:A:1385:PHE:HA	1:A:1410:TYR:HD1	1.59	0.67
1:B:557:ILE:CG2	1:B:561:SER:HB3	2.24	0.67
1:B:1342:TYR:HB2	1:B:1349:LEU:HD11	1.76	0.67
1:B:1556:THR:HG22	1:B:1567:TYR:CB	2.23	0.67
1:C:434:TYR:O	1:C:438:LEU:HD12	1.94	0.67
1:D:714:TRP:CD1	1:D:718:LEU:HG	2.29	0.67
1:A:471:ASN:O	1:A:475:LEU:HD23	1.94	0.67
1:B:233:GLN:HA	1:B:236:LEU:HD12	1.75	0.67
1:B:260:ALA:CB	1:B:432:ASN:HD21	2.06	0.67
1:B:434:TYR:O	1:B:438:LEU:HD12	1.94	0.67
1:C:674:VAL:CG1	1:C:678:LEU:HD13	2.25	0.67
1:D:608:LEU:HD23	1:D:648:VAL:HG13	1.77	0.67
1:D:807:PHE:HD1	1:D:871:TRP:CH2	2.11	0.67
1:D:1400:ASN:HB3	1:D:1402:LEU:HB2	1.77	0.67
1:E:402:ILE:HG23	1:E:428:VAL:HG13	1.74	0.67
1:E:674:VAL:CG1	1:E:678:LEU:HD13	2.25	0.67
1:A:1384:LYS:HG3	1:A:1489:ILE:O	1.95	0.67
1:B:402:ILE:HG23	1:B:428:VAL:HG13	1.74	0.67
1:B:746:VAL:HG12	1:B:748:THR:H	1.59	0.67
1:C:599:GLN:C	1:C:600:LEU:HD12	2.14	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:614:GLU:O	1:C:617:THR:HG22	1.95	0.67
1:D:1490:ASN:CB	1:D:1560:GLU:HB3	2.23	0.67
1:E:471:ASN:O	1:E:475:LEU:HD23	1.94	0.67
1:E:524:LEU:HD11	1:E:550:ILE:HA	1.77	0.67
1:E:659:TYR:CE1	1:E:758:ALA:HA	2.30	0.67
1:E:1385:PHE:HA	1:E:1410:TYR:HD1	1.60	0.67
1:A:604:GLU:HG2	1:A:649:PHE:CE1	2.29	0.67
1:A:608:LEU:HD23	1:A:648:VAL:HG13	1.77	0.67
1:A:659:TYR:CE1	1:A:758:ALA:HA	2.30	0.67
1:B:661:LYS:HA	1:B:753:VAL:CB	2.25	0.67
1:C:590:ILE:CB	1:C:619:LEU:HD13	2.25	0.67
1:C:633:LYS:HB2	1:C:633:LYS:HZ3	1.58	0.67
1:C:784:GLU:HG2	1:C:790:THR:HG23	1.76	0.67
1:C:1556:THR:HG22	1:C:1567:TYR:CB	2.23	0.67
1:D:784:GLU:HG2	1:D:790:THR:HG23	1.76	0.67
1:E:561:SER:OG	1:E:602:ILE:HD12	1.93	0.67
1:E:608:LEU:HD23	1:E:648:VAL:HG13	1.77	0.67
1:E:746:VAL:HG12	1:E:748:THR:H	1.59	0.67
1:E:1384:LYS:HG3	1:E:1489:ILE:O	1.94	0.67
1:A:382:GLU:OE1	1:A:382:GLU:HA	1.95	0.67
1:A:1542:LEU:HD22	1:A:1549:ALA:HB1	1.76	0.67
1:B:590:ILE:CB	1:B:619:LEU:HD13	2.25	0.67
1:B:707:VAL:O	1:B:711:VAL:HG23	1.94	0.67
1:C:233:GLN:HA	1:C:236:LEU:HD12	1.75	0.67
1:C:348:PHE:CE1	1:C:354:ARG:HB2	2.30	0.67
1:C:604:GLU:HG2	1:C:649:PHE:CE1	2.29	0.67
1:C:608:LEU:HD23	1:C:648:VAL:HG13	1.77	0.67
1:D:493:GLU:OE1	1:D:514:GLN:HG3	1.93	0.67
1:D:557:ILE:CG2	1:D:561:SER:HB3	2.24	0.67
1:E:355:LEU:HD12	1:E:357:TYR:CD1	2.29	0.67
1:A:1490:ASN:CB	1:A:1560:GLU:HB3	2.23	0.67
1:B:464:VAL:CG2	1:B:474:VAL:HG22	2.20	0.67
1:C:661:LYS:HA	1:C:753:VAL:CB	2.25	0.67
1:C:1426:ARG:HH11	1:C:1428:THR:HB	1.59	0.67
1:D:348:PHE:CE1	1:D:354:ARG:HB2	2.30	0.67
1:D:822:LEU:O	1:D:825:PHE:HB3	1.95	0.67
1:D:1385:PHE:HA	1:D:1410:TYR:HD1	1.60	0.67
1:E:659:TYR:HD1	1:E:757:GLN:CB	2.07	0.67
1:E:661:LYS:HA	1:E:753:VAL:CB	2.25	0.67
1:B:674:VAL:CG1	1:B:678:LEU:HD13	2.25	0.66
1:B:1542:LEU:HD22	1:B:1549:ALA:HB1	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:822:LEU:O	1:C:825:PHE:HB3	1.95	0.66
1:C:1400:ASN:HB3	1:C:1402:LEU:HB2	1.77	0.66
1:D:288:LEU:CD2	1:D:448:ARG:HD3	2.16	0.66
1:D:524:LEU:HD22	1:D:549:THR:CG2	2.17	0.66
1:D:524:LEU:HD11	1:D:550:ILE:HA	1.77	0.66
1:D:659:TYR:HD1	1:D:757:GLN:CB	2.07	0.66
1:E:599:GLN:C	1:E:600:LEU:HD12	2.14	0.66
1:A:218:LEU:HD21	1:A:239:ILE:CG2	2.11	0.66
1:A:434:TYR:O	1:A:438:LEU:HD12	1.94	0.66
1:A:590:ILE:CB	1:A:619:LEU:HD13	2.25	0.66
1:A:707:VAL:O	1:A:711:VAL:HG23	1.94	0.66
1:B:256:THR:HG22	1:B:257:GLU:H	1.60	0.66
1:B:822:LEU:O	1:B:825:PHE:HB3	1.95	0.66
1:C:255:ILE:HD12	1:C:442:LYS:HZ1	1.61	0.66
1:C:296:PHE:CE1	1:C:447:SER:HB2	2.30	0.66
1:C:1441:ALA:HB1	1:C:1443:ARG:HG2	1.77	0.66
1:D:777:ARG:O	1:D:781:THR:HG23	1.94	0.66
1:E:590:ILE:CB	1:E:619:LEU:HD13	2.25	0.66
1:E:614:GLU:O	1:E:617:THR:HG22	1.95	0.66
1:E:822:LEU:O	1:E:825:PHE:HB3	1.95	0.66
1:E:1400:ASN:HB3	1:E:1402:LEU:HB2	1.77	0.66
1:A:590:ILE:CG2	1:A:619:LEU:HD13	2.25	0.66
1:A:608:LEU:HB2	1:A:648:VAL:CG1	2.25	0.66
1:B:296:PHE:CE1	1:B:447:SER:HB2	2.30	0.66
1:B:348:PHE:CE1	1:B:354:ARG:HB2	2.30	0.66
1:B:614:GLU:O	1:B:617:THR:HG22	1.95	0.66
1:E:555:PHE:CE1	1:E:589:TYR:HD1	2.05	0.66
1:E:590:ILE:CG2	1:E:619:LEU:HD13	2.25	0.66
1:A:594:LEU:HD23	1:A:605:LEU:HD21	1.77	0.66
1:A:661:LYS:HA	1:A:753:VAL:CB	2.25	0.66
1:A:784:GLU:HG2	1:A:790:THR:HG23	1.76	0.66
1:B:555:PHE:CE1	1:B:589:TYR:HD1	2.05	0.66
1:B:557:ILE:CD1	1:B:592:LYS:HD2	2.13	0.66
1:B:608:LEU:HD23	1:B:648:VAL:HG13	1.77	0.66
1:C:264:TYR:CD1	1:C:434:TYR:HD1	2.13	0.66
1:C:540:SER:HB3	1:C:563:PHE:HB2	1.78	0.66
1:C:590:ILE:CG2	1:C:619:LEU:HD13	2.25	0.66
1:C:659:TYR:HD1	1:C:757:GLN:CB	2.07	0.66
1:C:850:SER:HA	1:C:877:ILE:HG12	1.78	0.66
1:D:382:GLU:HA	1:D:382:GLU:OE1	1.95	0.66
1:D:590:ILE:CG2	1:D:619:LEU:HD13	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:659:TYR:CE1	1:D:758:ALA:HA	2.30	0.66
1:E:233:GLN:HA	1:E:236:LEU:HD12	1.75	0.66
1:E:540:SER:HB3	1:E:563:PHE:HB2	1.77	0.66
1:E:1357:LEU:HD21	1:E:1498:VAL:HG21	1.78	0.66
1:A:1320:LYS:HD2	1:A:1571:SER:CB	2.22	0.66
1:A:1337:ILE:HD12	1:A:1572:ILE:HD11	1.78	0.66
1:A:1357:LEU:HD21	1:A:1498:VAL:HG21	1.78	0.66
1:B:659:TYR:CE1	1:B:758:ALA:HA	2.30	0.66
1:C:608:LEU:HB2	1:C:648:VAL:CG1	2.25	0.66
1:D:402:ILE:HG23	1:D:428:VAL:HG11	1.76	0.66
1:D:540:SER:HB3	1:D:563:PHE:HB2	1.78	0.66
1:D:590:ILE:CB	1:D:619:LEU:HD13	2.25	0.66
1:D:674:VAL:CG1	1:D:678:LEU:HD13	2.25	0.66
1:E:256:THR:HG22	1:E:257:GLU:H	1.60	0.66
1:E:784:GLU:HG2	1:E:790:THR:HG23	1.76	0.66
1:E:1406:PRO:HG3	1:E:1473:MET:CE	2.16	0.66
1:B:296:PHE:HZ	1:B:447:SER:HB2	1.58	0.66
1:C:1337:ILE:HD12	1:C:1572:ILE:HD11	1.78	0.66
1:D:850:SER:HA	1:D:877:ILE:HG12	1.78	0.66
1:D:1424:PHE:CE2	1:D:1434:VAL:HG21	2.31	0.66
1:E:402:ILE:HG23	1:E:428:VAL:HG11	1.76	0.66
1:E:1342:TYR:HB2	1:E:1349:LEU:HD11	1.76	0.66
1:A:850:SER:HA	1:A:877:ILE:HG12	1.78	0.66
1:C:439:LYS:O	1:C:442:LYS:HG2	1.96	0.66
1:C:830:LEU:HD22	1:C:874:ILE:HD13	1.78	0.66
1:D:256:THR:HG22	1:D:257:GLU:H	1.60	0.66
1:D:264:TYR:HB2	1:D:438:LEU:HD11	1.78	0.66
1:D:594:LEU:HD23	1:D:605:LEU:HD21	1.77	0.66
1:D:604:GLU:HG2	1:D:649:PHE:CE1	2.30	0.66
1:D:661:LYS:HA	1:D:753:VAL:CB	2.25	0.66
1:E:439:LYS:O	1:E:442:LYS:HG2	1.96	0.66
1:E:850:SER:HA	1:E:877:ILE:HG12	1.78	0.66
1:A:614:GLU:O	1:A:617:THR:HG22	1.95	0.66
1:A:713:LEU:HD13	1:A:781:THR:CG2	2.20	0.66
1:D:439:LYS:O	1:D:442:LYS:HG2	1.96	0.66
1:E:255:ILE:CG2	1:E:439:LYS:HE3	2.26	0.66
1:E:769:THR:OG1	1:E:771:ILE:HG12	1.96	0.66
1:E:1387:VAL:HG12	1:E:1407:VAL:CG2	2.26	0.66
1:A:714:TRP:CE3	1:A:762:LEU:HD11	2.31	0.66
1:A:1342:TYR:HB2	1:A:1349:LEU:HD11	1.76	0.66
1:A:1387:VAL:HG12	1:A:1407:VAL:CG2	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:255:ILE:CG2	1:B:439:LYS:HE3	2.26	0.66
1:B:590:ILE:CG2	1:B:619:LEU:HD13	2.25	0.66
1:B:830:LEU:HD22	1:B:874:ILE:HD13	1.78	0.66
1:B:1441:ALA:HB1	1:B:1443:ARG:HG2	1.77	0.66
1:C:273:PRO:HB2	1:C:433:GLN:CB	2.20	0.66
1:C:594:LEU:HD23	1:C:605:LEU:HD21	1.77	0.66
1:C:714:TRP:CE3	1:C:762:LEU:HD11	2.31	0.66
1:D:1342:TYR:HB2	1:D:1349:LEU:HD11	1.76	0.66
1:E:604:GLU:HG2	1:E:649:PHE:CE1	2.30	0.66
1:E:1441:ALA:HB1	1:E:1443:ARG:HG2	1.77	0.66
1:B:355:LEU:HD12	1:B:357:TYR:CD1	2.29	0.66
1:B:439:LYS:O	1:B:442:LYS:HG2	1.96	0.66
1:B:540:SER:HB3	1:B:563:PHE:HB2	1.78	0.66
1:B:850:SER:HA	1:B:877:ILE:HG12	1.78	0.66
1:C:256:THR:HG22	1:C:257:GLU:N	2.11	0.66
1:E:256:THR:HG22	1:E:257:GLU:N	2.11	0.66
1:A:540:SER:HB3	1:A:563:PHE:HB2	1.78	0.65
1:B:714:TRP:CE3	1:B:762:LEU:HD11	2.31	0.65
1:B:1490:ASN:CB	1:B:1560:GLU:HB3	2.23	0.65
1:C:264:TYR:HB2	1:C:438:LEU:HD11	1.78	0.65
1:C:659:TYR:CE1	1:C:758:ALA:HA	2.30	0.65
1:C:1424:PHE:CE2	1:C:1434:VAL:HG21	2.31	0.65
1:D:255:ILE:CG2	1:D:439:LYS:HE3	2.26	0.65
1:D:608:LEU:HB2	1:D:648:VAL:CG1	2.25	0.65
1:E:594:LEU:HD23	1:E:605:LEU:HD21	1.77	0.65
1:E:1424:PHE:CE2	1:E:1434:VAL:HG21	2.31	0.65
1:A:264:TYR:CD1	1:A:434:TYR:HD1	2.13	0.65
1:A:524:LEU:HD11	1:A:550:ILE:HA	1.77	0.65
1:A:1400:ASN:HB3	1:A:1402:LEU:HB2	1.77	0.65
1:B:256:THR:HG22	1:B:257:GLU:N	2.11	0.65
1:B:1312:ILE:HD12	1:B:1574:VAL:HG13	1.78	0.65
1:C:255:ILE:CG2	1:C:439:LYS:HE3	2.26	0.65
1:C:382:GLU:OE1	1:C:382:GLU:HA	1.95	0.65
1:C:849:ALA:HB3	1:C:877:ILE:CG2	2.26	0.65
1:E:296:PHE:CE1	1:E:447:SER:HB2	2.30	0.65
1:E:1394:ASN:HD21	1:E:1482:ASP:HB3	1.62	0.65
1:A:822:LEU:O	1:A:825:PHE:HB3	1.95	0.65
1:A:1424:PHE:CE2	1:A:1434:VAL:HG21	2.31	0.65
1:B:264:TYR:CD1	1:B:434:TYR:HD1	2.13	0.65
1:B:382:GLU:OE1	1:B:382:GLU:HA	1.95	0.65
1:B:594:LEU:HD23	1:B:605:LEU:HD21	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:784:GLU:HG2	1:B:790:THR:HG23	1.76	0.65
1:C:557:ILE:HG22	1:C:558:ASP:O	1.96	0.65
1:C:1312:ILE:HD12	1:C:1574:VAL:HG13	1.78	0.65
1:C:1542:LEU:HD22	1:C:1549:ALA:HB1	1.76	0.65
1:D:555:PHE:CE1	1:D:589:TYR:HD1	2.05	0.65
1:D:1386:ILE:HG13	1:D:1410:TYR:CE1	2.30	0.65
1:D:1394:ASN:HD21	1:D:1482:ASP:HB3	1.62	0.65
1:E:264:TYR:HB2	1:E:438:LEU:HD11	1.78	0.65
1:E:493:GLU:HB2	1:E:514:GLN:HG3	1.78	0.65
1:E:1311:GLU:HG2	1:E:1576:LEU:O	1.97	0.65
1:A:255:ILE:CG2	1:A:439:LYS:HE3	2.26	0.65
1:B:1357:LEU:HD21	1:B:1498:VAL:HG21	1.78	0.65
1:B:1387:VAL:HG12	1:B:1407:VAL:CG2	2.26	0.65
1:C:524:LEU:HD11	1:C:550:ILE:HA	1.77	0.65
1:C:746:VAL:HG12	1:C:748:THR:H	1.59	0.65
1:D:340:GLN:HA	1:D:360:LYS:O	1.97	0.65
1:D:614:GLU:O	1:D:617:THR:HG22	1.95	0.65
1:D:769:THR:OG1	1:D:771:ILE:HG12	1.96	0.65
1:D:1320:LYS:HD2	1:D:1571:SER:CB	2.22	0.65
1:D:1357:LEU:HD21	1:D:1498:VAL:HG21	1.78	0.65
1:E:557:ILE:HG22	1:E:558:ASP:O	1.96	0.65
1:A:733:TRP:HZ3	1:A:734:LEU:HD23	1.62	0.65
1:A:1339:THR:HG22	1:A:1340:ILE:N	2.12	0.65
1:B:1320:LYS:CD	1:B:1571:SER:HB2	2.19	0.65
1:C:256:THR:HG22	1:C:257:GLU:H	1.60	0.65
1:C:769:THR:OG1	1:C:771:ILE:HG12	1.96	0.65
1:D:548:LYS:HG2	1:D:552:LYS:HE2	1.79	0.65
1:D:1311:GLU:HG2	1:D:1576:LEU:O	1.97	0.65
1:D:1337:ILE:HD12	1:D:1572:ILE:HD11	1.78	0.65
1:E:348:PHE:CE1	1:E:354:ARG:HB2	2.30	0.65
1:E:1312:ILE:HD12	1:E:1574:VAL:HG13	1.78	0.65
1:A:248:PHE:O	1:A:252:THR:HG23	1.97	0.65
1:A:1386:ILE:HG13	1:A:1410:TYR:CE1	2.30	0.65
1:A:1441:ALA:HB1	1:A:1443:ARG:HG2	1.77	0.65
1:B:769:THR:OG1	1:B:771:ILE:HG12	1.96	0.65
1:D:256:THR:HG22	1:D:257:GLU:N	2.11	0.65
1:D:557:ILE:HG22	1:D:558:ASP:O	1.96	0.65
1:D:860:PRO:HG3	1:D:872:THR:OG1	1.97	0.65
1:D:1556:THR:HG22	1:D:1567:TYR:HB3	1.79	0.65
1:E:340:GLN:HA	1:E:360:LYS:O	1.97	0.65
1:E:714:TRP:CE3	1:E:762:LEU:HD11	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:348:PHE:CE1	1:A:354:ARG:HB2	2.30	0.65
1:A:860:PRO:HG3	1:A:872:THR:OG1	1.97	0.65
1:C:1387:VAL:HG12	1:C:1407:VAL:CG2	2.26	0.65
1:E:779:PHE:CD1	1:E:804:LEU:HD21	2.32	0.65
1:E:1339:THR:HG22	1:E:1340:ILE:N	2.12	0.65
1:A:256:THR:HG22	1:A:257:GLU:H	1.60	0.65
1:A:256:THR:HG22	1:A:257:GLU:N	2.11	0.65
1:A:296:PHE:CE1	1:A:447:SER:HB2	2.30	0.65
1:B:1339:THR:HG22	1:B:1340:ILE:N	2.12	0.65
1:B:1400:ASN:HB3	1:B:1402:LEU:HB2	1.77	0.65
1:C:340:GLN:HA	1:C:360:LYS:O	1.97	0.65
1:D:296:PHE:CE1	1:D:447:SER:HB2	2.30	0.65
1:D:605:LEU:HD11	1:D:609:LEU:HD11	1.79	0.65
1:D:746:VAL:HG12	1:D:748:THR:H	1.59	0.65
1:E:598:HIS:HB3	1:E:638:THR:HG21	1.78	0.65
1:A:340:GLN:HA	1:A:360:LYS:O	1.97	0.65
1:A:439:LYS:O	1:A:442:LYS:HG2	1.96	0.65
1:A:769:THR:OG1	1:A:771:ILE:HG12	1.96	0.65
1:B:297:ILE:CG2	1:B:440:LEU:HD21	2.27	0.65
1:B:831:THR:HG22	1:B:832:ALA:N	2.12	0.65
1:B:1424:PHE:CE2	1:B:1434:VAL:HG21	2.31	0.65
1:D:600:LEU:HG	1:D:648:VAL:HG21	1.79	0.65
1:D:830:LEU:HD22	1:D:874:ILE:HD13	1.78	0.65
1:D:1387:VAL:HG12	1:D:1407:VAL:CG2	2.26	0.65
1:E:297:ILE:CG2	1:E:440:LEU:HD21	2.27	0.65
1:A:310:ASN:HD21	1:A:455:THR:CB	2.10	0.65
1:A:483:TYR:HA	1:A:486:GLN:HE21	1.62	0.65
1:A:659:TYR:HA	1:A:757:GLN:CD	2.18	0.65
1:A:830:LEU:HD22	1:A:874:ILE:HD13	1.78	0.65
1:B:598:HIS:HB3	1:B:638:THR:HG21	1.78	0.65
1:B:659:TYR:HA	1:B:757:GLN:CD	2.18	0.65
1:B:1394:ASN:HD21	1:B:1482:ASP:HB3	1.62	0.65
1:C:493:GLU:HB2	1:C:514:GLN:HG3	1.78	0.65
1:C:555:PHE:CE1	1:C:589:TYR:HD1	2.05	0.65
1:C:598:HIS:HB3	1:C:638:THR:HG21	1.78	0.65
1:C:659:TYR:HA	1:C:757:GLN:CD	2.18	0.65
1:D:264:TYR:CD1	1:D:434:TYR:HD1	2.13	0.65
1:D:713:LEU:HD13	1:D:781:THR:CG2	2.20	0.65
1:E:264:TYR:CD1	1:E:434:TYR:HD1	2.14	0.65
1:E:310:ASN:HD21	1:E:455:THR:CB	2.10	0.65
1:E:524:LEU:HD22	1:E:549:THR:CG2	2.17	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:493:GLU:HB2	1:A:514:GLN:HG3	1.78	0.64
1:A:557:ILE:HG22	1:A:558:ASP:O	1.96	0.64
1:A:779:PHE:CD1	1:A:804:LEU:HD21	2.32	0.64
1:A:831:THR:HG22	1:A:832:ALA:N	2.12	0.64
1:A:1311:GLU:HG2	1:A:1576:LEU:O	1.97	0.64
1:B:548:LYS:HG2	1:B:552:LYS:HE2	1.79	0.64
1:B:779:PHE:CD1	1:B:804:LEU:HD21	2.32	0.64
1:B:1311:GLU:HG2	1:B:1576:LEU:O	1.97	0.64
1:B:1337:ILE:HD12	1:B:1572:ILE:HD11	1.78	0.64
1:C:482:LYS:HA	1:C:485:MET:HE2	1.78	0.64
1:E:600:LEU:HG	1:E:648:VAL:HG21	1.79	0.64
1:E:799:LEU:O	1:E:799:LEU:HD13	1.97	0.64
1:A:297:ILE:CG2	1:A:440:LEU:HD21	2.27	0.64
1:B:483:TYR:HA	1:B:486:GLN:HE21	1.62	0.64
1:B:524:LEU:HD11	1:B:550:ILE:HA	1.77	0.64
1:B:1556:THR:HG22	1:B:1567:TYR:HB3	1.79	0.64
1:C:1490:ASN:ND2	1:C:1560:GLU:HG2	2.13	0.64
1:D:248:PHE:O	1:D:252:THR:HG23	1.97	0.64
1:D:310:ASN:HD21	1:D:455:THR:CB	2.10	0.64
1:D:733:TRP:CE3	1:D:752:ILE:HD12	2.33	0.64
1:D:1339:THR:HG22	1:D:1340:ILE:N	2.11	0.64
1:E:372:LEU:O	1:E:372:LEU:HD13	1.98	0.64
1:E:847:LEU:O	1:E:847:LEU:HD13	1.98	0.64
1:E:1556:THR:HG22	1:E:1567:TYR:HB3	1.79	0.64
1:A:264:TYR:HB2	1:A:438:LEU:HD11	1.78	0.64
1:B:264:TYR:HB2	1:B:438:LEU:HD11	1.78	0.64
1:B:1357:LEU:CD2	1:B:1498:VAL:HG21	2.27	0.64
1:C:310:ASN:HD21	1:C:455:THR:CB	2.10	0.64
1:C:713:LEU:CD1	1:C:781:THR:HG22	2.23	0.64
1:C:799:LEU:O	1:C:799:LEU:HD13	1.97	0.64
1:C:860:PRO:HG3	1:C:872:THR:OG1	1.97	0.64
1:C:1357:LEU:HD21	1:C:1498:VAL:HG21	1.78	0.64
1:D:847:LEU:O	1:D:847:LEU:HD13	1.98	0.64
1:D:1312:ILE:HD12	1:D:1574:VAL:HG13	1.78	0.64
1:D:1441:ALA:HB1	1:D:1443:ARG:HG2	1.77	0.64
1:E:255:ILE:HD12	1:E:442:LYS:HZ1	1.62	0.64
1:E:482:LYS:HA	1:E:485:MET:HE2	1.80	0.64
1:E:539:ASN:HA	1:E:563:PHE:HD1	1.56	0.64
1:E:714:TRP:CH2	1:E:765:VAL:HG11	2.32	0.64
1:A:312:GLN:OE1	1:A:468:LEU:HD21	1.98	0.64
1:A:372:LEU:O	1:A:372:LEU:HD13	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:600:LEU:HG	1:A:648:VAL:HG21	1.79	0.64
1:A:1394:ASN:HD21	1:A:1482:ASP:HB3	1.62	0.64
1:A:1471:ILE:O	1:A:1483:VAL:HG22	1.98	0.64
1:B:222:ASN:HD21	1:B:483:TYR:HE1	1.46	0.64
1:B:310:ASN:HD21	1:B:455:THR:CB	2.10	0.64
1:B:557:ILE:HG22	1:B:558:ASP:O	1.96	0.64
1:C:1311:GLU:HG2	1:C:1576:LEU:O	1.97	0.64
1:C:1410:TYR:CE2	1:C:1464:PRO:HB3	2.33	0.64
1:D:779:PHE:CD1	1:D:804:LEU:HD21	2.32	0.64
1:D:831:THR:HG22	1:D:832:ALA:N	2.12	0.64
1:E:1337:ILE:HD12	1:E:1572:ILE:HD11	1.78	0.64
1:A:733:TRP:CE3	1:A:752:ILE:HD12	2.33	0.64
1:B:493:GLU:HB2	1:B:514:GLN:HG3	1.78	0.64
1:B:849:ALA:HB3	1:B:877:ILE:CG2	2.26	0.64
1:C:248:PHE:O	1:C:252:THR:HG23	1.97	0.64
1:C:779:PHE:CD1	1:C:804:LEU:HD21	2.32	0.64
1:D:297:ILE:CG2	1:D:440:LEU:HD21	2.27	0.64
1:D:341:MET:HE3	1:D:410:LEU:HB2	1.80	0.64
1:D:372:LEU:O	1:D:372:LEU:HD13	1.98	0.64
1:D:493:GLU:HB2	1:D:514:GLN:HG3	1.78	0.64
1:D:714:TRP:CE3	1:D:762:LEU:HD11	2.31	0.64
1:E:230:LEU:HG	1:E:856:HIS:HB2	1.80	0.64
1:E:482:LYS:HG3	1:E:485:MET:HE3	1.80	0.64
1:E:830:LEU:HD22	1:E:874:ILE:HD13	1.78	0.64
1:E:1357:LEU:CD2	1:E:1498:VAL:HG21	2.27	0.64
1:E:1410:TYR:CE2	1:E:1464:PRO:HB3	2.33	0.64
1:A:548:LYS:HG2	1:A:552:LYS:HE2	1.79	0.64
1:B:340:GLN:HA	1:B:360:LYS:O	1.97	0.64
1:B:372:LEU:O	1:B:372:LEU:HD13	1.98	0.64
1:C:222:ASN:HD21	1:C:483:TYR:HE1	1.46	0.64
1:C:1312:ILE:HD11	1:C:1574:VAL:CG2	2.22	0.64
1:D:659:TYR:HA	1:D:757:GLN:CD	2.18	0.64
1:D:799:LEU:O	1:D:799:LEU:HD13	1.97	0.64
1:E:483:TYR:HA	1:E:486:GLN:HE21	1.62	0.64
1:E:548:LYS:HG2	1:E:552:LYS:HE2	1.79	0.64
1:A:847:LEU:O	1:A:847:LEU:HD13	1.98	0.64
1:B:312:GLN:OE1	1:B:468:LEU:HD21	1.98	0.64
1:B:529:PHE:HB3	1:B:531:THR:HG23	1.79	0.64
1:B:714:TRP:CH2	1:B:765:VAL:HG11	2.32	0.64
1:C:714:TRP:CH2	1:C:765:VAL:HG11	2.32	0.64
1:C:1386:ILE:HG13	1:C:1410:TYR:CE1	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1493:ILE:HD11	1:C:1565:LEU:HD11	1.79	0.64
1:E:640:TRP:CD1	1:E:802:ILE:HD12	2.33	0.64
1:E:860:PRO:HG3	1:E:872:THR:OG1	1.97	0.64
1:E:1471:ILE:O	1:E:1483:VAL:HG22	1.98	0.64
1:A:464:VAL:CG2	1:A:474:VAL:HG22	2.20	0.64
1:A:598:HIS:HB3	1:A:638:THR:HG21	1.78	0.64
1:A:714:TRP:CH2	1:A:765:VAL:HG11	2.32	0.64
1:A:1312:ILE:HD12	1:A:1574:VAL:HG13	1.78	0.64
1:B:605:LEU:HD11	1:B:609:LEU:HD11	1.79	0.64
1:B:1471:ILE:O	1:B:1483:VAL:HG22	1.98	0.64
1:C:230:LEU:HG	1:C:856:HIS:HB2	1.80	0.64
1:C:600:LEU:HG	1:C:648:VAL:HG21	1.79	0.64
1:C:1394:ASN:HD21	1:C:1482:ASP:HB3	1.62	0.64
1:D:355:LEU:HD12	1:D:357:TYR:CD1	2.29	0.64
1:D:414:LEU:HD12	1:D:416:SER:H	1.63	0.64
1:D:598:HIS:HB3	1:D:638:THR:HG21	1.78	0.64
1:E:538:LEU:HD11	1:E:578:ILE:HD13	1.80	0.64
1:E:733:TRP:CE3	1:E:752:ILE:HD12	2.33	0.64
1:E:1493:ILE:HD11	1:E:1565:LEU:HD11	1.79	0.64
1:A:363:TYR:HE2	1:A:414:LEU:H	1.45	0.64
1:A:605:LEU:HD11	1:A:609:LEU:HD11	1.79	0.64
1:A:1312:ILE:HG23	1:A:1313:PRO:O	1.98	0.64
1:A:1357:LEU:CD2	1:A:1498:VAL:HG21	2.27	0.64
1:A:1410:TYR:CE2	1:A:1464:PRO:HB3	2.33	0.64
1:B:860:PRO:HG3	1:B:872:THR:OG1	1.97	0.64
1:B:1410:TYR:CE2	1:B:1464:PRO:HB3	2.33	0.64
1:C:1339:THR:HG22	1:C:1340:ILE:N	2.12	0.64
1:D:263:LEU:HB3	1:D:438:LEU:CD2	2.28	0.64
1:D:263:LEU:O	1:D:266:LYS:HB2	1.98	0.64
1:D:714:TRP:CH2	1:D:765:VAL:HG11	2.32	0.64
1:E:218:LEU:CD1	1:E:239:ILE:HB	2.23	0.64
1:E:263:LEU:O	1:E:266:LYS:HB2	1.98	0.64
1:E:312:GLN:OE1	1:E:468:LEU:HD21	1.98	0.64
1:E:605:LEU:HD11	1:E:609:LEU:HD11	1.79	0.64
1:A:222:ASN:HD21	1:A:483:TYR:HE1	1.46	0.64
1:A:263:LEU:O	1:A:266:LYS:HB2	1.98	0.64
1:A:633:LYS:HZ3	1:A:633:LYS:HB2	1.62	0.64
1:A:640:TRP:CD1	1:A:802:ILE:HD12	2.33	0.64
1:A:661:LYS:HG3	1:A:661:LYS:O	1.98	0.64
1:B:1312:ILE:HG23	1:B:1313:PRO:O	1.98	0.64
1:B:1428:THR:HG21	1:B:1430:TYR:CZ	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1490:ASN:ND2	1:B:1560:GLU:HG2	2.13	0.64
1:C:312:GLN:OE1	1:C:468:LEU:HD21	1.98	0.64
1:C:327:VAL:HG11	1:C:436:PHE:CD1	2.33	0.64
1:C:548:LYS:HG2	1:C:552:LYS:HE2	1.79	0.64
1:C:1556:THR:HG22	1:C:1567:TYR:HB3	1.79	0.64
1:D:483:TYR:HA	1:D:486:GLN:HE21	1.62	0.64
1:E:263:LEU:HB3	1:E:438:LEU:CD2	2.28	0.64
1:E:319:ASN:HD21	1:E:322:ASP:HB2	1.63	0.64
1:E:659:TYR:HA	1:E:757:GLN:CD	2.18	0.64
1:E:1312:ILE:HG23	1:E:1313:PRO:O	1.98	0.64
1:A:538:LEU:HD11	1:A:578:ILE:HD13	1.80	0.63
1:B:714:TRP:HZ3	1:B:776:PHE:HE1	1.45	0.63
1:B:1493:ILE:HD11	1:B:1565:LEU:HD11	1.79	0.63
1:C:605:LEU:HD11	1:C:609:LEU:HD11	1.79	0.63
1:C:1312:ILE:HG23	1:C:1313:PRO:O	1.98	0.63
1:D:222:ASN:HD21	1:D:483:TYR:HE1	1.46	0.63
1:D:538:LEU:HD11	1:D:578:ILE:HD13	1.80	0.63
1:D:1357:LEU:CD2	1:D:1498:VAL:HG21	2.27	0.63
1:D:1490:ASN:ND2	1:D:1560:GLU:HG2	2.13	0.63
1:D:1493:ILE:HD11	1:D:1565:LEU:HD11	1.79	0.63
1:E:714:TRP:HZ3	1:E:776:PHE:HE1	1.45	0.63
1:E:849:ALA:HB3	1:E:877:ILE:CG2	2.26	0.63
1:A:327:VAL:HG11	1:A:436:PHE:CD1	2.33	0.63
1:A:714:TRP:HZ3	1:A:776:PHE:HE1	1.45	0.63
1:C:218:LEU:CD1	1:C:239:ILE:HB	2.23	0.63
1:E:248:PHE:O	1:E:252:THR:HG23	1.97	0.63
1:E:363:TYR:HE2	1:E:414:LEU:H	1.45	0.63
1:E:714:TRP:HH2	1:E:765:VAL:HG11	1.64	0.63
1:E:719:GLN:N	1:E:720:PRO:HD3	2.13	0.63
1:E:876:THR:HA	1:E:879:GLN:OE1	1.99	0.63
1:E:1428:THR:HG21	1:E:1430:TYR:CZ	2.34	0.63
1:A:529:PHE:HB3	1:A:531:THR:HG23	1.79	0.63
1:A:876:THR:HA	1:A:879:GLN:OE1	1.99	0.63
1:B:248:PHE:O	1:B:252:THR:HG23	1.97	0.63
1:B:497:ILE:HG21	1:B:589:TYR:HE2	1.63	0.63
1:B:538:LEU:HD11	1:B:578:ILE:HD13	1.80	0.63
1:B:640:TRP:CD1	1:B:802:ILE:HD12	2.33	0.63
1:B:733:TRP:HZ3	1:B:734:LEU:HD23	1.62	0.63
1:B:799:LEU:O	1:B:799:LEU:HD13	1.97	0.63
1:C:372:LEU:HD13	1:C:372:LEU:O	1.98	0.63
1:C:482:LYS:HG3	1:C:485:MET:HE3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:497:ILE:HG21	1:C:589:TYR:HE2	1.63	0.63
1:C:538:LEU:HD11	1:C:578:ILE:HD13	1.80	0.63
1:C:714:TRP:HZ3	1:C:776:PHE:HE1	1.45	0.63
1:C:733:TRP:HZ3	1:C:734:LEU:HD23	1.62	0.63
1:C:847:LEU:O	1:C:847:LEU:HD13	1.98	0.63
1:C:1357:LEU:CD2	1:C:1498:VAL:HG21	2.27	0.63
1:D:312:GLN:OE1	1:D:468:LEU:HD21	1.98	0.63
1:D:876:THR:HA	1:D:879:GLN:OE1	1.99	0.63
1:D:1428:THR:HG21	1:D:1430:TYR:CZ	2.33	0.63
1:A:653:ILE:HG13	1:A:764:MET:SD	2.39	0.63
1:A:714:TRP:HH2	1:A:765:VAL:HG11	1.64	0.63
1:A:1428:THR:HG21	1:A:1430:TYR:CZ	2.34	0.63
1:B:327:VAL:HG11	1:B:436:PHE:CD1	2.33	0.63
1:B:515:PHE:O	1:B:519:PHE:HD1	1.82	0.63
1:C:263:LEU:HB3	1:C:438:LEU:CD2	2.28	0.63
1:C:341:MET:HE3	1:C:410:LEU:HB2	1.78	0.63
1:C:483:TYR:HA	1:C:486:GLN:HE21	1.62	0.63
1:C:714:TRP:HH2	1:C:765:VAL:HG11	1.64	0.63
1:C:1428:THR:HG21	1:C:1430:TYR:CZ	2.34	0.63
1:D:661:LYS:HA	1:D:753:VAL:CG1	2.29	0.63
1:D:1312:ILE:HG23	1:D:1313:PRO:O	1.98	0.63
1:B:600:LEU:HG	1:B:648:VAL:HG21	1.79	0.63
1:C:661:LYS:HA	1:C:753:VAL:CG1	2.29	0.63
1:D:230:LEU:HG	1:D:856:HIS:HB2	1.80	0.63
1:D:640:TRP:CD1	1:D:802:ILE:HD12	2.33	0.63
1:D:661:LYS:HG3	1:D:661:LYS:O	1.98	0.63
1:E:529:PHE:HB3	1:E:531:THR:HG23	1.80	0.63
1:E:831:THR:HG22	1:E:832:ALA:N	2.12	0.63
1:E:1490:ASN:ND2	1:E:1560:GLU:HG2	2.13	0.63
1:B:366:SER:HG	1:B:367:TYR:HD1	1.46	0.63
1:B:482:LYS:HG3	1:B:485:MET:HE3	1.80	0.63
1:B:717:LYS:HB3	1:B:794:PRO:CG	2.29	0.63
1:B:876:THR:HA	1:B:879:GLN:OE1	1.98	0.63
1:C:452:LEU:HB3	1:C:456:ILE:CG2	2.29	0.63
1:C:515:PHE:O	1:C:519:PHE:HD1	1.82	0.63
1:C:653:ILE:HG13	1:C:764:MET:SD	2.39	0.63
1:C:733:TRP:CE3	1:C:752:ILE:HD12	2.33	0.63
1:C:831:THR:HG22	1:C:832:ALA:N	2.12	0.63
1:C:876:THR:HA	1:C:879:GLN:OE1	1.99	0.63
1:D:515:PHE:O	1:D:519:PHE:HD1	1.82	0.63
1:D:653:ILE:HG13	1:D:764:MET:SD	2.39	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:714:TRP:HZ3	1:D:776:PHE:HE1	1.45	0.63
1:D:719:GLN:N	1:D:720:PRO:HD3	2.13	0.63
1:D:1410:TYR:CE2	1:D:1464:PRO:HB3	2.33	0.63
1:D:1576:LEU:HG	1:D:1577:LYS:N	2.14	0.63
1:E:414:LEU:HD12	1:E:416:SER:H	1.63	0.63
1:E:653:ILE:HG13	1:E:764:MET:SD	2.39	0.63
1:C:1576:LEU:HG	1:C:1577:LYS:N	2.14	0.63
1:D:319:ASN:HD21	1:D:322:ASP:HB2	1.63	0.63
1:D:413:VAL:HG13	1:D:418:SER:O	1.99	0.63
1:D:733:TRP:HZ3	1:D:734:LEU:HD23	1.62	0.63
1:E:341:MET:HE3	1:E:410:LEU:HB2	1.78	0.63
1:E:1316:VAL:HG21	1:E:1572:ILE:C	2.20	0.63
1:A:263:LEU:HB3	1:A:438:LEU:CD2	2.28	0.63
1:A:414:LEU:HD12	1:A:416:SER:N	2.13	0.63
1:A:1490:ASN:ND2	1:A:1560:GLU:HG2	2.13	0.63
1:B:661:LYS:HA	1:B:753:VAL:CG1	2.29	0.63
1:C:337:ASN:ND2	1:C:340:GLN:HB2	2.14	0.63
1:C:414:LEU:HD12	1:C:416:SER:H	1.63	0.63
1:C:1471:ILE:O	1:C:1483:VAL:HG22	1.98	0.63
1:D:327:VAL:HG11	1:D:436:PHE:CD1	2.33	0.63
1:D:529:PHE:HB3	1:D:531:THR:HG23	1.79	0.63
1:D:1471:ILE:O	1:D:1483:VAL:HG22	1.98	0.63
1:E:452:LEU:HB3	1:E:456:ILE:CG2	2.29	0.63
1:A:659:TYR:HA	1:A:757:GLN:OE1	1.99	0.63
1:A:713:LEU:CD1	1:A:781:THR:HG22	2.23	0.63
1:A:718:LEU:HD23	1:A:794:PRO:HG2	1.81	0.63
1:A:1576:LEU:HG	1:A:1577:LYS:N	2.14	0.63
1:B:263:LEU:O	1:B:266:LYS:HB2	1.98	0.63
1:B:414:LEU:HD12	1:B:416:SER:N	2.13	0.63
1:B:414:LEU:HD12	1:B:416:SER:H	1.63	0.63
1:B:653:ILE:HG13	1:B:764:MET:SD	2.39	0.63
1:B:667:ILE:HG22	1:B:671:LEU:HD13	1.81	0.63
1:C:640:TRP:CD1	1:C:802:ILE:HD12	2.33	0.63
1:D:414:LEU:HD12	1:D:416:SER:N	2.13	0.63
1:D:777:ARG:O	1:D:780:VAL:HG22	1.99	0.63
1:E:222:ASN:HD21	1:E:483:TYR:HE1	1.46	0.63
1:A:413:VAL:HG13	1:A:418:SER:O	1.99	0.62
1:A:464:VAL:HG23	1:A:465:ASN:N	2.14	0.62
1:A:1556:THR:HG22	1:A:1567:TYR:HB3	1.79	0.62
1:B:263:LEU:HB3	1:B:438:LEU:CD2	2.28	0.62
1:B:464:VAL:HG23	1:B:465:ASN:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:605:LEU:O	1:B:609:LEU:HG	1.99	0.62
1:B:714:TRP:HH2	1:B:765:VAL:HG11	1.64	0.62
1:B:847:LEU:HD13	1:B:847:LEU:O	1.98	0.62
1:C:413:VAL:HG13	1:C:418:SER:O	1.99	0.62
1:C:414:LEU:HD12	1:C:416:SER:N	2.13	0.62
1:D:659:TYR:HA	1:D:757:GLN:OE1	1.99	0.62
1:E:337:ASN:ND2	1:E:340:GLN:HB2	2.14	0.62
1:E:718:LEU:HD23	1:E:794:PRO:HG2	1.81	0.62
1:E:1316:VAL:HG23	1:E:1572:ILE:HG23	1.81	0.62
1:A:230:LEU:HD23	1:A:856:HIS:CG	2.34	0.62
1:A:273:PRO:HB2	1:A:433:GLN:CB	2.20	0.62
1:A:524:LEU:HD11	1:A:550:ILE:HG12	1.81	0.62
1:A:777:ARG:O	1:A:780:VAL:HG22	1.99	0.62
1:A:1316:VAL:HG21	1:A:1572:ILE:C	2.20	0.62
1:B:230:LEU:HD23	1:B:856:HIS:CG	2.34	0.62
1:B:363:TYR:HE2	1:B:414:LEU:H	1.45	0.62
1:B:452:LEU:HB3	1:B:456:ILE:CG2	2.29	0.62
1:B:733:TRP:CE3	1:B:752:ILE:HD12	2.33	0.62
1:B:1556:THR:CB	1:B:1564:LYS:HE3	2.24	0.62
1:C:240:ASN:HD21	1:C:479:PHE:HE1	1.47	0.62
1:C:297:ILE:CG2	1:C:440:LEU:HD21	2.27	0.62
1:D:497:ILE:HG21	1:D:589:TYR:HE2	1.63	0.62
1:D:627:LEU:O	1:D:631:ILE:HG13	1.99	0.62
1:E:413:VAL:HG13	1:E:418:SER:O	1.99	0.62
1:E:515:PHE:O	1:E:519:PHE:HD1	1.82	0.62
1:E:777:ARG:O	1:E:780:VAL:HG22	1.99	0.62
1:A:337:ASN:ND2	1:A:340:GLN:HB2	2.14	0.62
1:A:439:LYS:HA	1:A:442:LYS:HZ1	1.64	0.62
1:B:661:LYS:HG3	1:B:661:LYS:O	1.98	0.62
1:B:1576:LEU:HG	1:B:1577:LYS:N	2.14	0.62
1:C:464:VAL:HG23	1:C:465:ASN:N	2.14	0.62
1:C:887:LEU:HB2	1:C:889:VAL:HG12	1.81	0.62
1:E:414:LEU:HD12	1:E:416:SER:N	2.13	0.62
1:E:497:ILE:HG21	1:E:589:TYR:HE2	1.63	0.62
1:E:659:TYR:HA	1:E:757:GLN:OE1	1.99	0.62
1:A:319:ASN:HD21	1:A:322:ASP:HB2	1.63	0.62
1:A:719:GLN:N	1:A:720:PRO:HD3	2.13	0.62
1:A:1493:ILE:HD11	1:A:1565:LEU:HD11	1.79	0.62
1:C:263:LEU:O	1:C:266:LYS:HB2	1.98	0.62
1:C:627:LEU:O	1:C:631:ILE:HG13	1.99	0.62
1:D:482:LYS:HG3	1:D:485:MET:HE3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:718:LEU:HD23	1:D:794:PRO:HG2	1.81	0.62
1:D:849:ALA:HB3	1:D:877:ILE:CG2	2.26	0.62
1:E:493:GLU:HB3	1:E:517:ARG:NH2	2.15	0.62
1:E:661:LYS:HA	1:E:753:VAL:CG1	2.29	0.62
1:E:1576:LEU:HG	1:E:1577:LYS:N	2.14	0.62
1:A:605:LEU:O	1:A:609:LEU:HG	1.99	0.62
1:A:799:LEU:HD13	1:A:799:LEU:O	1.97	0.62
1:B:524:LEU:HD11	1:B:550:ILE:HG12	1.81	0.62
1:B:887:LEU:HB2	1:B:889:VAL:HG12	1.81	0.62
1:C:230:LEU:HD23	1:C:856:HIS:CG	2.34	0.62
1:D:524:LEU:HD11	1:D:550:ILE:HG12	1.81	0.62
1:E:464:VAL:HG23	1:E:465:ASN:N	2.14	0.62
1:E:524:LEU:HD11	1:E:550:ILE:HG12	1.81	0.62
1:E:605:LEU:O	1:E:609:LEU:HG	1.99	0.62
1:A:493:GLU:HB3	1:A:517:ARG:NH2	2.15	0.62
1:A:497:ILE:HG21	1:A:589:TYR:HE2	1.63	0.62
1:B:230:LEU:HG	1:B:856:HIS:HB2	1.80	0.62
1:B:710:SER:OG	1:B:777:ARG:HG2	2.00	0.62
1:B:1469:GLN:HG3	1:B:1470:TYR:N	2.15	0.62
1:C:524:LEU:HD11	1:C:550:ILE:HG12	1.81	0.62
1:C:710:SER:OG	1:C:777:ARG:HG2	2.00	0.62
1:C:1316:VAL:HG21	1:C:1572:ILE:C	2.20	0.62
1:D:1469:GLN:HG3	1:D:1470:TYR:N	2.15	0.62
1:E:263:LEU:O	1:E:438:LEU:HD21	2.00	0.62
1:A:482:LYS:HG3	1:A:485:MET:HE3	1.82	0.62
1:A:710:SER:OG	1:A:777:ARG:HG2	2.00	0.62
1:A:717:LYS:HB3	1:A:794:PRO:CG	2.29	0.62
1:B:240:ASN:HD21	1:B:479:PHE:HE1	1.47	0.62
1:B:337:ASN:ND2	1:B:340:GLN:HB2	2.14	0.62
1:C:319:ASN:HD21	1:C:322:ASP:HB2	1.63	0.62
1:C:529:PHE:HB3	1:C:531:THR:HG23	1.79	0.62
1:C:659:TYR:HA	1:C:757:GLN:OE1	1.99	0.62
1:D:363:TYR:HE2	1:D:414:LEU:H	1.45	0.62
1:D:452:LEU:HB3	1:D:456:ILE:CG2	2.29	0.62
1:D:464:VAL:HG23	1:D:465:ASN:N	2.14	0.62
1:D:633:LYS:HZ3	1:D:633:LYS:HB2	1.62	0.62
1:E:529:PHE:HE2	1:E:546:TRP:CZ2	2.18	0.62
1:E:661:LYS:HG3	1:E:661:LYS:O	1.98	0.62
1:A:263:LEU:O	1:A:438:LEU:HD21	2.00	0.62
1:A:515:PHE:O	1:A:519:PHE:HD1	1.82	0.62
1:D:529:PHE:HE2	1:D:546:TRP:CZ2	2.18	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:605:LEU:O	1:D:609:LEU:HG	1.99	0.62
1:D:1316:VAL:HG23	1:D:1572:ILE:HG23	1.81	0.62
1:A:661:LYS:HA	1:A:753:VAL:CG1	2.29	0.62
1:A:1353:ILE:HG22	1:A:1354:SER:N	2.15	0.62
1:C:363:TYR:HE2	1:C:414:LEU:H	1.45	0.62
1:C:1521:PRO:HG3	1:C:1529:ASN:O	2.00	0.62
1:D:714:TRP:HH2	1:D:765:VAL:HG11	1.64	0.62
1:D:1316:VAL:HG21	1:D:1572:ILE:C	2.20	0.62
1:E:327:VAL:HG11	1:E:436:PHE:CD1	2.33	0.62
1:E:343:VAL:HG21	1:E:410:LEU:CD1	2.30	0.62
1:A:355:LEU:CD1	1:A:357:TYR:HD1	2.12	0.62
1:A:414:LEU:HD12	1:A:416:SER:H	1.63	0.62
1:B:355:LEU:CD1	1:B:357:TYR:HD1	2.12	0.62
1:B:1320:LYS:HD2	1:B:1571:SER:CB	2.22	0.62
1:C:661:LYS:O	1:C:661:LYS:HG3	1.98	0.62
1:D:263:LEU:O	1:D:438:LEU:HD21	2.00	0.62
1:D:493:GLU:HB3	1:D:517:ARG:NH2	2.15	0.62
1:D:622:ILE:HG12	1:D:626:GLN:CG	2.22	0.62
1:D:667:ILE:HG22	1:D:671:LEU:HD13	1.81	0.62
1:D:1521:PRO:HG3	1:D:1529:ASN:O	2.00	0.62
1:E:717:LYS:HB3	1:E:794:PRO:CG	2.29	0.62
1:E:1353:ILE:HG22	1:E:1354:SER:N	2.15	0.62
1:E:1423:LEU:HD23	1:E:1456:TYR:CB	2.30	0.62
1:A:376:ARG:NH1	1:A:378:LEU:HD21	2.15	0.61
1:A:452:LEU:HB3	1:A:456:ILE:CG2	2.29	0.61
1:A:887:LEU:HB2	1:A:889:VAL:HG12	1.81	0.61
1:A:1316:VAL:HG23	1:A:1572:ILE:HG23	1.81	0.61
1:B:319:ASN:HD21	1:B:322:ASP:HB2	1.63	0.61
1:B:413:VAL:HG13	1:B:418:SER:O	1.99	0.61
1:B:663:LEU:H	1:B:663:LEU:CD2	2.13	0.61
1:B:1423:LEU:HD23	1:B:1456:TYR:CB	2.30	0.61
1:C:719:GLN:N	1:C:720:PRO:HD3	2.13	0.61
1:C:777:ARG:O	1:C:780:VAL:HG22	1.99	0.61
1:D:296:PHE:HE1	1:D:447:SER:HG	1.47	0.61
1:D:398:ASN:O	1:D:402:ILE:HG12	2.00	0.61
1:D:659:TYR:HA	1:D:757:GLN:CB	2.30	0.61
1:E:398:ASN:O	1:E:402:ILE:HG12	2.00	0.61
1:E:537:ASP:O	1:E:548:LYS:HD2	2.01	0.61
1:E:627:LEU:O	1:E:631:ILE:HG13	1.99	0.61
1:A:398:ASN:O	1:A:402:ILE:HG12	2.00	0.61
1:A:417:GLY:N	1:A:418:SER:HA	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:653:ILE:CG1	1:A:764:MET:HE1	2.30	0.61
1:B:398:ASN:O	1:B:402:ILE:HG12	2.00	0.61
1:B:537:ASP:O	1:B:548:LYS:HD2	2.00	0.61
1:B:627:LEU:O	1:B:631:ILE:HG13	1.99	0.61
1:B:659:TYR:HA	1:B:757:GLN:OE1	2.00	0.61
1:C:376:ARG:NH1	1:C:378:LEU:HD21	2.15	0.61
1:D:337:ASN:ND2	1:D:340:GLN:HB2	2.14	0.61
1:D:663:LEU:H	1:D:663:LEU:CD2	2.13	0.61
1:E:230:LEU:HD23	1:E:856:HIS:CG	2.34	0.61
1:B:255:ILE:HD12	1:B:442:LYS:HZ1	1.65	0.61
1:B:319:ASN:HD21	1:B:322:ASP:CB	2.14	0.61
1:B:719:GLN:N	1:B:720:PRO:HD3	2.14	0.61
1:C:319:ASN:HD21	1:C:322:ASP:CB	2.14	0.61
1:C:667:ILE:HG22	1:C:671:LEU:HD13	1.81	0.61
1:C:717:LYS:HB3	1:C:794:PRO:CG	2.29	0.61
1:C:1469:GLN:HG3	1:C:1470:TYR:N	2.15	0.61
1:D:343:VAL:HG21	1:D:410:LEU:CD1	2.30	0.61
1:D:557:ILE:CD1	1:D:592:LYS:HD2	2.13	0.61
1:D:717:LYS:HB3	1:D:794:PRO:CG	2.29	0.61
1:D:1353:ILE:HG22	1:D:1354:SER:N	2.15	0.61
1:E:273:PRO:HB2	1:E:433:GLN:CB	2.20	0.61
1:E:663:LEU:H	1:E:663:LEU:CD2	2.13	0.61
1:E:1312:ILE:HD11	1:E:1574:VAL:CG2	2.22	0.61
1:A:296:PHE:HE1	1:A:447:SER:HG	1.47	0.61
1:A:343:VAL:HG21	1:A:410:LEU:CD1	2.30	0.61
1:A:627:LEU:O	1:A:631:ILE:HG13	1.99	0.61
1:A:1496:ALA:HA	1:A:1513:ALA:HB3	1.83	0.61
1:B:524:LEU:CD2	1:B:549:THR:HG22	2.18	0.61
1:B:777:ARG:O	1:B:780:VAL:HG22	1.99	0.61
1:C:537:ASP:O	1:C:548:LYS:HD2	2.00	0.61
1:C:605:LEU:O	1:C:609:LEU:HG	1.99	0.61
1:C:653:ILE:CG1	1:C:764:MET:HE1	2.30	0.61
1:D:237:LEU:CG	1:D:479:PHE:HB2	2.26	0.61
1:D:240:ASN:HD21	1:D:479:PHE:HE1	1.47	0.61
1:D:710:SER:OG	1:D:777:ARG:HG2	2.00	0.61
1:D:1434:VAL:HG23	1:D:1447:ASN:HB3	1.83	0.61
1:E:417:GLY:N	1:E:418:SER:HA	2.15	0.61
1:E:1469:GLN:HG3	1:E:1470:TYR:N	2.15	0.61
1:A:240:ASN:HD21	1:A:479:PHE:HE1	1.47	0.61
1:A:319:ASN:HD21	1:A:322:ASP:CB	2.14	0.61
1:A:849:ALA:HB3	1:A:877:ILE:CG2	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1434:VAL:HG23	1:A:1447:ASN:HB3	1.83	0.61
1:B:376:ARG:NH1	1:B:378:LEU:HD21	2.16	0.61
1:B:718:LEU:HD23	1:B:794:PRO:HG2	1.81	0.61
1:B:1316:VAL:HG21	1:B:1572:ILE:C	2.20	0.61
1:C:1316:VAL:HG23	1:C:1572:ILE:HG23	1.81	0.61
1:D:230:LEU:HD23	1:D:856:HIS:CG	2.34	0.61
1:D:319:ASN:HD21	1:D:322:ASP:CB	2.14	0.61
1:E:667:ILE:HG22	1:E:671:LEU:HD13	1.81	0.61
1:E:1385:PHE:HA	1:E:1410:TYR:CD1	2.36	0.61
1:E:1434:VAL:HG23	1:E:1447:ASN:HB3	1.83	0.61
1:A:529:PHE:HE2	1:A:546:TRP:CZ2	2.18	0.61
1:A:663:LEU:H	1:A:663:LEU:CD2	2.13	0.61
1:B:1326:ASP:OD1	1:B:1564:LYS:HB3	2.01	0.61
1:B:1353:ILE:HG22	1:B:1354:SER:N	2.15	0.61
1:C:355:LEU:CD1	1:C:357:TYR:HD1	2.12	0.61
1:D:230:LEU:HB3	1:D:856:HIS:CD2	2.36	0.61
1:D:376:ARG:NH1	1:D:378:LEU:HD21	2.16	0.61
1:D:1326:ASP:OD1	1:D:1564:LYS:HB3	2.01	0.61
1:E:659:TYR:HA	1:E:757:GLN:CB	2.30	0.61
1:E:887:LEU:HB2	1:E:889:VAL:HG12	1.81	0.61
1:E:1496:ALA:HA	1:E:1513:ALA:HB3	1.82	0.61
1:A:230:LEU:HB3	1:A:856:HIS:CD2	2.36	0.61
1:A:1387:VAL:HG22	1:A:1487:VAL:HG23	1.82	0.61
1:C:296:PHE:HE1	1:C:447:SER:HG	1.46	0.61
1:C:398:ASN:O	1:C:402:ILE:HG12	2.00	0.61
1:C:493:GLU:HB3	1:C:517:ARG:NH2	2.15	0.61
1:C:1353:ILE:HG22	1:C:1354:SER:N	2.15	0.61
1:C:1434:VAL:HG23	1:C:1447:ASN:HB3	1.83	0.61
1:D:355:LEU:CD1	1:D:357:TYR:HD1	2.12	0.61
1:D:887:LEU:HB2	1:D:889:VAL:HG12	1.81	0.61
1:E:319:ASN:HD21	1:E:322:ASP:CB	2.14	0.61
1:E:713:LEU:CD1	1:E:781:THR:HG22	2.23	0.61
1:E:1489:ILE:HG23	1:E:1563:ARG:NH2	2.16	0.61
1:B:343:VAL:HG21	1:B:410:LEU:CD1	2.30	0.61
1:B:482:LYS:HA	1:B:485:MET:HE2	1.81	0.61
1:B:1385:PHE:HB2	1:B:1408:TYR:O	2.00	0.61
1:C:529:PHE:HE2	1:C:546:TRP:CZ2	2.18	0.61
1:C:663:LEU:H	1:C:663:LEU:CD2	2.13	0.61
1:C:718:LEU:HD23	1:C:794:PRO:HG2	1.81	0.61
1:D:220:GLN:HG2	1:D:886:GLN:HG3	1.83	0.61
1:E:237:LEU:CG	1:E:479:PHE:HB2	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:273:PRO:HG2	1:E:433:GLN:CG	2.24	0.61
1:E:1555:PHE:HE1	1:E:1570:PHE:CD1	2.19	0.61
1:B:1357:LEU:HD23	1:B:1530:TYR:CD2	2.36	0.61
1:B:1387:VAL:HG22	1:B:1487:VAL:HG23	1.82	0.61
1:B:1434:VAL:HG23	1:B:1447:ASN:HB3	1.83	0.61
1:B:1521:PRO:HG3	1:B:1529:ASN:O	2.00	0.61
1:D:628:ALA:HA	1:D:631:ILE:HD12	1.83	0.61
1:D:713:LEU:CD1	1:D:781:THR:HG22	2.23	0.61
1:E:220:GLN:HG2	1:E:886:GLN:HG3	1.83	0.61
1:E:1521:PRO:HG3	1:E:1529:ASN:O	2.00	0.61
1:A:667:ILE:HG22	1:A:671:LEU:HD13	1.81	0.61
1:A:1469:GLN:HG3	1:A:1470:TYR:N	2.15	0.61
1:B:237:LEU:CG	1:B:479:PHE:HB2	2.26	0.61
1:B:263:LEU:O	1:B:438:LEU:HD21	2.00	0.61
1:B:273:PRO:HB2	1:B:433:GLN:CB	2.20	0.61
1:B:1316:VAL:HG23	1:B:1572:ILE:HG23	1.81	0.61
1:C:263:LEU:O	1:C:438:LEU:HD21	2.00	0.61
1:C:343:VAL:HG21	1:C:410:LEU:CD1	2.30	0.61
1:C:462:ARG:CZ	1:C:506:ARG:HH12	2.14	0.61
1:C:659:TYR:HA	1:C:757:GLN:CB	2.30	0.61
1:C:1385:PHE:HB2	1:C:1408:TYR:O	2.00	0.61
1:D:273:PRO:CG	1:D:433:GLN:HG3	2.23	0.61
1:D:1385:PHE:HA	1:D:1410:TYR:CD1	2.36	0.61
1:E:286:TYR:HB3	1:E:288:LEU:HG	1.83	0.61
1:E:355:LEU:CD1	1:E:357:TYR:HD1	2.12	0.61
1:E:462:ARG:CZ	1:E:506:ARG:HH12	2.14	0.61
1:A:537:ASP:O	1:A:548:LYS:HD2	2.00	0.60
1:A:717:LYS:HB3	1:A:794:PRO:HG3	1.83	0.60
1:A:1326:ASP:OD1	1:A:1564:LYS:HB3	2.01	0.60
1:B:847:LEU:HD22	1:B:868:PHE:CZ	2.36	0.60
1:D:1489:ILE:HG23	1:D:1563:ARG:NH2	2.16	0.60
1:D:1555:PHE:HE1	1:D:1570:PHE:CD1	2.19	0.60
1:E:376:ARG:NH1	1:E:378:LEU:HD21	2.15	0.60
1:E:653:ILE:CG1	1:E:764:MET:HE1	2.31	0.60
1:E:710:SER:OG	1:E:777:ARG:HG2	2.00	0.60
1:A:230:LEU:HG	1:A:856:HIS:HB2	1.80	0.60
1:A:832:ALA:HB3	1:A:868:PHE:CE1	2.37	0.60
1:A:1385:PHE:HA	1:A:1410:TYR:CD1	2.36	0.60
1:B:273:PRO:HG2	1:B:433:GLN:CG	2.24	0.60
1:B:417:GLY:N	1:B:418:SER:HA	2.15	0.60
1:C:628:ALA:HA	1:C:631:ILE:HD12	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:462:ARG:CZ	1:D:506:ARG:HH12	2.14	0.60
1:E:629:THR:HG23	1:E:632:ARG:HH21	1.67	0.60
1:E:1385:PHE:HB2	1:E:1408:TYR:O	2.00	0.60
1:A:1489:ILE:HG23	1:A:1563:ARG:NH2	2.16	0.60
1:B:296:PHE:HE1	1:B:447:SER:HG	1.48	0.60
1:B:659:TYR:HA	1:B:757:GLN:CB	2.30	0.60
1:B:1496:ALA:HA	1:B:1513:ALA:HB3	1.83	0.60
1:C:230:LEU:HB3	1:C:856:HIS:CD2	2.36	0.60
1:C:417:GLY:N	1:C:418:SER:HA	2.15	0.60
1:C:438:LEU:O	1:C:441:ASN:HB3	2.01	0.60
1:D:1496:ALA:HA	1:D:1513:ALA:HB3	1.83	0.60
1:E:240:ASN:HD21	1:E:479:PHE:HE1	1.47	0.60
1:E:832:ALA:HB3	1:E:868:PHE:CE1	2.36	0.60
1:A:273:PRO:HG2	1:A:433:GLN:CG	2.24	0.60
1:A:659:TYR:HA	1:A:757:GLN:CB	2.30	0.60
1:A:1423:LEU:HD23	1:A:1456:TYR:CB	2.30	0.60
1:B:493:GLU:HB3	1:B:517:ARG:NH2	2.15	0.60
1:C:1326:ASP:OD1	1:C:1564:LYS:HB3	2.01	0.60
1:C:1556:THR:CB	1:C:1564:LYS:HE3	2.24	0.60
1:D:417:GLY:N	1:D:418:SER:HA	2.15	0.60
1:D:653:ILE:CG1	1:D:764:MET:HE1	2.31	0.60
1:D:1385:PHE:HB2	1:D:1408:TYR:O	2.00	0.60
1:D:1423:LEU:HD23	1:D:1456:TYR:CB	2.30	0.60
1:E:1386:ILE:HG13	1:E:1410:TYR:CE1	2.30	0.60
1:A:276:LEU:HG	1:A:282:LEU:HD21	1.84	0.60
1:A:438:LEU:O	1:A:441:ASN:HB3	2.01	0.60
1:A:462:ARG:CZ	1:A:506:ARG:HH12	2.14	0.60
1:B:230:LEU:HB3	1:B:856:HIS:CD2	2.36	0.60
1:B:832:ALA:HB3	1:B:868:PHE:CE1	2.36	0.60
1:C:717:LYS:HB3	1:C:794:PRO:HG3	1.83	0.60
1:C:1357:LEU:HD23	1:C:1530:TYR:CD2	2.36	0.60
1:C:1489:ILE:HG23	1:C:1563:ARG:NH2	2.16	0.60
1:D:222:ASN:ND2	1:D:483:TYR:HE1	2.00	0.60
1:E:1326:ASP:OD1	1:E:1564:LYS:HB3	2.01	0.60
1:E:1339:THR:HG22	1:E:1340:ILE:H	1.67	0.60
1:B:286:TYR:HB3	1:B:288:LEU:HG	1.83	0.60
1:B:462:ARG:CZ	1:B:506:ARG:HH12	2.14	0.60
1:B:717:LYS:HB3	1:B:794:PRO:HG3	1.83	0.60
1:B:1386:ILE:HG13	1:B:1410:TYR:CE1	2.30	0.60
1:B:1489:ILE:HG23	1:B:1563:ARG:NH2	2.16	0.60
1:C:847:LEU:HD22	1:C:868:PHE:CZ	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1339:THR:HG22	1:C:1340:ILE:H	1.67	0.60
1:D:529:PHE:HB2	1:D:531:THR:HG23	1.83	0.60
1:E:1320:LYS:HD2	1:E:1571:SER:CB	2.22	0.60
1:E:1357:LEU:HD23	1:E:1530:TYR:CD2	2.36	0.60
1:A:847:LEU:HD22	1:A:868:PHE:CZ	2.36	0.60
1:A:1385:PHE:HB2	1:A:1408:TYR:O	2.00	0.60
1:B:276:LEU:HG	1:B:282:LEU:HD21	1.84	0.60
1:B:490:ILE:HG22	1:B:491:HIS:O	2.02	0.60
1:C:286:TYR:HB3	1:C:288:LEU:HG	1.83	0.60
1:C:1387:VAL:HG22	1:C:1487:VAL:HG23	1.82	0.60
1:D:789:ALA:CB	1:D:792:ALA:HB3	2.29	0.60
1:E:230:LEU:HB3	1:E:856:HIS:CD2	2.36	0.60
1:E:628:ALA:HA	1:E:631:ILE:HD12	1.83	0.60
1:A:222:ASN:ND2	1:A:483:TYR:HE1	2.00	0.60
1:A:1555:PHE:HE1	1:A:1570:PHE:CD1	2.19	0.60
1:B:410:LEU:HD12	1:B:410:LEU:N	2.17	0.60
1:B:529:PHE:HE2	1:B:546:TRP:CZ2	2.18	0.60
1:B:536:ILE:CD1	1:B:547:ARG:HD3	2.31	0.60
1:C:529:PHE:HB2	1:C:531:THR:HG23	1.83	0.60
1:D:629:THR:HG23	1:D:632:ARG:HH21	1.67	0.60
1:D:657:THR:O	1:D:657:THR:HG22	2.02	0.60
1:E:789:ALA:CB	1:E:792:ALA:HB3	2.29	0.60
1:E:847:LEU:HD22	1:E:868:PHE:CZ	2.36	0.60
1:A:242:SER:O	1:A:449:ALA:HB1	2.02	0.60
1:A:410:LEU:N	1:A:410:LEU:HD12	2.17	0.60
1:A:529:PHE:HB2	1:A:531:THR:HG23	1.83	0.60
1:A:536:ILE:CD1	1:A:547:ARG:HD3	2.31	0.60
1:B:240:ASN:ND2	1:B:479:PHE:HE1	2.00	0.60
1:C:220:GLN:HG2	1:C:886:GLN:HG3	1.83	0.60
1:C:490:ILE:HG22	1:C:491:HIS:O	2.02	0.60
1:C:1385:PHE:HA	1:C:1410:TYR:CD1	2.36	0.60
1:D:274:ALA:HB3	1:D:1519:ILE:CG1	2.32	0.60
1:D:438:LEU:O	1:D:441:ASN:HB3	2.01	0.60
1:D:1387:VAL:HG22	1:D:1487:VAL:HG23	1.82	0.60
1:E:410:LEU:HD12	1:E:410:LEU:N	2.17	0.60
1:A:220:GLN:HG2	1:A:886:GLN:HG3	1.83	0.60
1:A:274:ALA:HB3	1:A:1519:ILE:CG1	2.32	0.60
1:A:1501:ILE:HD12	1:A:1501:ILE:N	2.17	0.60
1:B:481:THR:O	1:B:485:MET:HG2	2.02	0.60
1:B:1385:PHE:HA	1:B:1410:TYR:CD1	2.36	0.60
1:C:657:THR:O	1:C:657:THR:HG22	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1555:PHE:HE1	1:C:1570:PHE:CD1	2.19	0.60
1:D:537:ASP:O	1:D:548:LYS:HD2	2.01	0.60
1:E:240:ASN:ND2	1:E:479:PHE:HE1	2.00	0.60
1:E:717:LYS:HB3	1:E:794:PRO:HG3	1.83	0.60
1:A:286:TYR:HB3	1:A:288:LEU:HG	1.83	0.59
1:A:363:TYR:OH	1:A:417:GLY:HA3	2.02	0.59
1:A:371:LYS:HA	1:A:377:GLU:HA	1.84	0.59
1:A:1521:PRO:HG3	1:A:1529:ASN:O	2.00	0.59
1:B:220:GLN:HG2	1:B:886:GLN:HG3	1.83	0.59
1:B:622:ILE:HG12	1:B:626:GLN:CG	2.22	0.59
1:C:242:SER:O	1:C:449:ALA:HB1	2.02	0.59
1:C:832:ALA:HB3	1:C:868:PHE:CE1	2.36	0.59
1:D:251:LEU:CD2	1:D:446:LEU:HD21	2.32	0.59
1:D:481:THR:O	1:D:485:MET:HG2	2.02	0.59
1:D:490:ILE:HG22	1:D:491:HIS:O	2.02	0.59
1:D:847:LEU:HD22	1:D:868:PHE:CZ	2.36	0.59
1:E:481:THR:O	1:E:485:MET:HG2	2.02	0.59
1:E:1387:VAL:HG22	1:E:1487:VAL:HG23	1.82	0.59
1:A:273:PRO:CB	1:A:433:GLN:HB2	2.21	0.59
1:A:295:GLN:CB	1:A:454:PRO:HD2	2.33	0.59
1:B:222:ASN:ND2	1:B:483:TYR:HE1	2.00	0.59
1:B:524:LEU:HD11	1:B:550:ILE:CG1	2.32	0.59
1:B:629:THR:HG23	1:B:632:ARG:HH21	1.66	0.59
1:B:1315:SER:O	1:B:1316:VAL:HG22	2.03	0.59
1:C:410:LEU:HD12	1:C:410:LEU:N	2.17	0.59
1:D:272:GLU:HB2	1:D:1519:ILE:HD13	1.84	0.59
1:D:286:TYR:HB3	1:D:288:LEU:HG	1.82	0.59
1:E:272:GLU:HB2	1:E:1519:ILE:HD13	1.84	0.59
1:E:438:LEU:O	1:E:441:ASN:HB3	2.01	0.59
1:A:1339:THR:HG22	1:A:1340:ILE:H	1.67	0.59
1:B:438:LEU:O	1:B:441:ASN:HB3	2.01	0.59
1:B:529:PHE:HB2	1:B:531:THR:HG23	1.83	0.59
1:B:758:ALA:O	1:B:761:GLN:HB3	2.02	0.59
1:B:1555:PHE:HE1	1:B:1570:PHE:CD1	2.19	0.59
1:C:536:ILE:CD1	1:C:547:ARG:HD3	2.31	0.59
1:D:524:LEU:CD2	1:D:549:THR:HG22	2.18	0.59
1:D:758:ALA:O	1:D:761:GLN:HB3	2.02	0.59
1:E:348:PHE:CE1	1:E:354:ARG:HD3	2.38	0.59
1:E:524:LEU:HD11	1:E:550:ILE:CG1	2.33	0.59
1:E:657:THR:HG22	1:E:657:THR:O	2.02	0.59
1:E:1452:ILE:HD12	1:E:1452:ILE:N	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:237:LEU:CG	1:A:479:PHE:HB2	2.26	0.59
1:A:628:ALA:HA	1:A:631:ILE:HD12	1.83	0.59
1:A:654:MET:HE2	1:A:765:VAL:CG2	2.16	0.59
1:A:860:PRO:HB2	1:A:872:THR:HG21	1.85	0.59
1:A:1380:LYS:HD3	1:A:1414:THR:OG1	2.03	0.59
1:B:689:LEU:HD13	1:B:713:LEU:HD21	1.84	0.59
1:B:1452:ILE:HD12	1:B:1452:ILE:N	2.18	0.59
1:C:273:PRO:CG	1:C:433:GLN:HG3	2.23	0.59
1:C:276:LEU:HG	1:C:282:LEU:HD21	1.84	0.59
1:C:295:GLN:CB	1:C:454:PRO:HD2	2.33	0.59
1:C:629:THR:HG23	1:C:632:ARG:HH21	1.67	0.59
1:D:714:TRP:CZ3	1:D:776:PHE:HE1	2.21	0.59
1:D:1312:ILE:HD11	1:D:1574:VAL:CG2	2.22	0.59
1:E:529:PHE:HB2	1:E:531:THR:HG23	1.83	0.59
1:E:612:VAL:CG1	1:E:614:GLU:H	2.15	0.59
1:A:657:THR:O	1:A:657:THR:HG22	2.02	0.59
1:B:503:ILE:HB	1:B:582:LEU:HD11	1.85	0.59
1:B:653:ILE:CG1	1:B:764:MET:HE1	2.33	0.59
1:C:524:LEU:HD11	1:C:550:ILE:CG1	2.33	0.59
1:C:612:VAL:CG1	1:C:614:GLU:H	2.15	0.59
1:C:714:TRP:CZ3	1:C:776:PHE:HE1	2.21	0.59
1:C:848:GLN:O	1:C:852:GLN:HG2	2.03	0.59
1:C:1496:ALA:HA	1:C:1513:ALA:HB3	1.83	0.59
1:D:1343:LYS:O	1:D:1349:LEU:HD12	2.03	0.59
1:E:222:ASN:ND2	1:E:483:TYR:HE1	2.00	0.59
1:E:251:LEU:CD2	1:E:446:LEU:HD21	2.32	0.59
1:E:295:GLN:CB	1:E:454:PRO:HD2	2.33	0.59
1:E:319:ASN:OD1	1:E:322:ASP:HB2	2.03	0.59
1:E:371:LYS:HA	1:E:377:GLU:HA	1.84	0.59
1:A:490:ILE:HG22	1:A:491:HIS:O	2.02	0.59
1:A:612:VAL:CG1	1:A:614:GLU:H	2.15	0.59
1:B:628:ALA:HA	1:B:631:ILE:HD12	1.83	0.59
1:B:714:TRP:CZ3	1:B:776:PHE:HE1	2.21	0.59
1:B:845:LEU:HD21	1:B:881:VAL:HG13	1.85	0.59
1:B:860:PRO:HB2	1:B:872:THR:HG21	1.85	0.59
1:C:222:ASN:ND2	1:C:483:TYR:HE1	2.00	0.59
1:C:1315:SER:O	1:C:1316:VAL:HG22	2.02	0.59
1:C:1380:LYS:HD3	1:C:1414:THR:OG1	2.03	0.59
1:D:832:ALA:HB3	1:D:868:PHE:CE1	2.36	0.59
1:D:1452:ILE:N	1:D:1452:ILE:HD12	2.18	0.59
1:E:242:SER:O	1:E:449:ALA:HB1	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:521:THR:CB	1:E:522:PRO:HD3	2.29	0.59
1:E:714:TRP:CZ3	1:E:776:PHE:HE1	2.21	0.59
1:E:733:TRP:HZ3	1:E:734:LEU:HD23	1.62	0.59
1:E:848:GLN:O	1:E:852:GLN:HG2	2.03	0.59
1:E:1315:SER:O	1:E:1316:VAL:HG22	2.03	0.59
1:E:1372:CYS:HA	1:E:1375:MET:HG2	1.84	0.59
1:A:240:ASN:ND2	1:A:479:PHE:HE1	2.00	0.59
1:A:348:PHE:CE1	1:A:354:ARG:HD3	2.38	0.59
1:A:689:LEU:HD13	1:A:713:LEU:HD21	1.84	0.59
1:B:1332:VAL:HG23	1:B:1332:VAL:O	2.03	0.59
1:B:1501:ILE:HD12	1:B:1501:ILE:N	2.17	0.59
1:D:240:ASN:ND2	1:D:479:PHE:HE1	2.00	0.59
1:D:480:LEU:HB3	1:D:484:TYR:CE2	2.38	0.59
1:E:274:ALA:HB3	1:E:1519:ILE:CG1	2.32	0.59
1:E:296:PHE:HE1	1:E:447:SER:HG	1.46	0.59
1:E:363:TYR:CE2	1:E:414:LEU:HB3	2.37	0.59
1:A:363:TYR:CE2	1:A:414:LEU:HB3	2.37	0.59
1:A:607:LEU:HD22	1:A:649:PHE:CD2	2.38	0.59
1:A:1312:ILE:HD11	1:A:1574:VAL:CG2	2.22	0.59
1:B:529:PHE:HB3	1:B:531:THR:CG2	2.33	0.59
1:B:657:THR:HG22	1:B:657:THR:O	2.02	0.59
1:C:689:LEU:HD13	1:C:713:LEU:HD21	1.84	0.59
1:D:218:LEU:CD1	1:D:239:ILE:HB	2.23	0.59
1:D:319:ASN:OD1	1:D:322:ASP:HB2	2.03	0.59
1:D:348:PHE:CE1	1:D:354:ARG:HD3	2.38	0.59
1:D:363:TYR:OH	1:D:417:GLY:HA3	2.02	0.59
1:E:276:LEU:HG	1:E:282:LEU:HD21	1.84	0.59
1:E:598:HIS:HB3	1:E:638:THR:CG2	2.33	0.59
1:E:860:PRO:HB2	1:E:872:THR:HG21	1.85	0.59
1:A:481:THR:O	1:A:485:MET:HG2	2.02	0.59
1:A:557:ILE:CD1	1:A:592:LYS:HD2	2.13	0.59
1:A:1452:ILE:N	1:A:1452:ILE:HD12	2.18	0.59
1:B:272:GLU:HB2	1:B:1519:ILE:HD13	1.84	0.59
1:C:251:LEU:CD2	1:C:446:LEU:HD21	2.32	0.59
1:C:272:GLU:HB2	1:C:1519:ILE:HD13	1.84	0.59
1:C:363:TYR:OH	1:C:417:GLY:HA3	2.02	0.59
1:C:1423:LEU:HD23	1:C:1456:TYR:CB	2.30	0.59
1:C:1501:ILE:N	1:C:1501:ILE:HD12	2.17	0.59
1:D:410:LEU:N	1:D:410:LEU:HD12	2.17	0.59
1:D:536:ILE:CD1	1:D:547:ARG:HD3	2.31	0.59
1:D:607:LEU:HD22	1:D:649:PHE:CD2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:529:PHE:HB3	1:E:531:THR:CG2	2.33	0.59
1:A:630:LEU:HD23	1:A:634:LEU:HG	1.85	0.59
1:A:714:TRP:CZ3	1:A:776:PHE:HE1	2.21	0.59
1:A:848:GLN:O	1:A:852:GLN:HG2	2.03	0.59
1:A:1343:LYS:O	1:A:1349:LEU:HD12	2.03	0.59
1:B:348:PHE:CE1	1:B:354:ARG:HD3	2.38	0.59
1:B:612:VAL:CG1	1:B:614:GLU:H	2.15	0.59
1:B:1343:LYS:O	1:B:1349:LEU:HD12	2.03	0.59
1:B:1360:ILE:HG21	1:B:1362:ASN:ND2	2.18	0.59
1:B:1380:LYS:HD3	1:B:1414:THR:OG1	2.03	0.59
1:C:274:ALA:HB3	1:C:1519:ILE:CG1	2.32	0.59
1:C:363:TYR:CE2	1:C:414:LEU:HB3	2.37	0.59
1:C:607:LEU:HD22	1:C:649:PHE:CD2	2.38	0.59
1:D:242:SER:O	1:D:449:ALA:HB1	2.02	0.59
1:D:295:GLN:CB	1:D:454:PRO:HD2	2.33	0.59
1:D:341:MET:HE3	1:D:422:ALA:HB3	1.84	0.59
1:D:524:LEU:HD21	1:D:550:ILE:HA	1.85	0.59
1:D:1332:VAL:HG23	1:D:1332:VAL:O	2.03	0.59
1:D:1380:LYS:HD3	1:D:1414:THR:OG1	2.03	0.59
1:E:464:VAL:HG11	1:E:477:LYS:CD	2.33	0.59
1:E:607:LEU:HD22	1:E:649:PHE:CD2	2.38	0.59
1:E:630:LEU:HD23	1:E:634:LEU:HG	1.85	0.59
1:E:758:ALA:O	1:E:761:GLN:HB3	2.02	0.59
1:A:218:LEU:CD1	1:A:239:ILE:HB	2.23	0.58
1:A:319:ASN:OD1	1:A:322:ASP:HB2	2.03	0.58
1:A:480:LEU:HB3	1:A:484:TYR:CE2	2.38	0.58
1:A:524:LEU:HD11	1:A:550:ILE:CG1	2.33	0.58
1:A:529:PHE:HB3	1:A:531:THR:CG2	2.33	0.58
1:A:1360:ILE:HG21	1:A:1362:ASN:ND2	2.18	0.58
1:A:1372:CYS:HA	1:A:1375:MET:HG2	1.84	0.58
1:B:363:TYR:OH	1:B:417:GLY:HA3	2.02	0.58
1:B:630:LEU:HD23	1:B:634:LEU:HG	1.85	0.58
1:C:295:GLN:HB3	1:C:454:PRO:CD	2.33	0.58
1:C:481:THR:O	1:C:485:MET:HG2	2.02	0.58
1:C:524:LEU:HD21	1:C:550:ILE:HA	1.85	0.58
1:C:529:PHE:HB3	1:C:531:THR:CG2	2.33	0.58
1:D:371:LYS:HA	1:D:377:GLU:HA	1.84	0.58
1:E:503:ILE:HB	1:E:582:LEU:HD11	1.85	0.58
1:E:536:ILE:CD1	1:E:547:ARG:HD3	2.31	0.58
1:E:667:ILE:HA	1:E:670:LEU:HD13	1.86	0.58
1:E:718:LEU:HD12	1:E:762:LEU:HD23	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1501:ILE:N	1:E:1501:ILE:HD12	2.17	0.58
1:A:251:LEU:CD2	1:A:446:LEU:HD21	2.32	0.58
1:A:464:VAL:HG11	1:A:477:LYS:CD	2.34	0.58
1:A:629:THR:HG23	1:A:632:ARG:HH21	1.67	0.58
1:B:242:SER:O	1:B:449:ALA:HB1	2.02	0.58
1:B:371:LYS:HA	1:B:377:GLU:HA	1.84	0.58
1:B:1339:THR:HG22	1:B:1340:ILE:H	1.67	0.58
1:B:1372:CYS:HA	1:B:1375:MET:HG2	1.84	0.58
1:C:240:ASN:ND2	1:C:479:PHE:HE1	2.00	0.58
1:D:363:TYR:CE2	1:D:414:LEU:HB3	2.37	0.58
1:D:529:PHE:HB3	1:D:531:THR:CG2	2.33	0.58
1:D:598:HIS:HB3	1:D:638:THR:CG2	2.33	0.58
1:D:1315:SER:O	1:D:1316:VAL:HG22	2.03	0.58
1:D:1372:CYS:HA	1:D:1375:MET:HG2	1.84	0.58
1:D:1501:ILE:HD12	1:D:1501:ILE:N	2.17	0.58
1:A:758:ALA:O	1:A:761:GLN:HB3	2.02	0.58
1:B:296:PHE:CG	1:B:444:ILE:HG12	2.39	0.58
1:B:653:ILE:HG13	1:B:764:MET:HE1	1.85	0.58
1:B:718:LEU:HD12	1:B:762:LEU:HD23	1.85	0.58
1:C:348:PHE:CE1	1:C:354:ARG:HD3	2.38	0.58
1:C:758:ALA:O	1:C:761:GLN:HB3	2.02	0.58
1:C:789:ALA:CB	1:C:792:ALA:HB3	2.29	0.58
1:C:845:LEU:HD21	1:C:881:VAL:HG13	1.85	0.58
1:C:1527:GLU:HG2	1:C:1528:MET:N	2.18	0.58
1:D:276:LEU:HG	1:D:282:LEU:HD21	1.84	0.58
1:D:848:GLN:O	1:D:852:GLN:HG2	2.03	0.58
1:D:1527:GLU:HG2	1:D:1528:MET:N	2.18	0.58
1:E:480:LEU:HB3	1:E:484:TYR:CE2	2.38	0.58
1:E:524:LEU:HD21	1:E:550:ILE:HA	1.85	0.58
1:E:1527:GLU:HG2	1:E:1528:MET:N	2.18	0.58
1:E:1559:ALA:HB2	1:E:1565:LEU:HD21	1.85	0.58
1:A:251:LEU:HD21	1:A:470:ILE:HD13	1.85	0.58
1:A:272:GLU:HB2	1:A:1519:ILE:HD13	1.84	0.58
1:A:718:LEU:HD12	1:A:762:LEU:HD23	1.85	0.58
1:A:789:ALA:CB	1:A:792:ALA:HB3	2.29	0.58
1:A:1315:SER:O	1:A:1316:VAL:HG22	2.02	0.58
1:A:1527:GLU:HG2	1:A:1528:MET:N	2.18	0.58
1:B:480:LEU:HB3	1:B:484:TYR:CE2	2.38	0.58
1:C:341:MET:HB2	1:C:422:ALA:CB	2.34	0.58
1:C:860:PRO:HB2	1:C:872:THR:HG21	1.85	0.58
1:D:273:PRO:HB2	1:D:433:GLN:CB	2.20	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1556:THR:CB	1:D:1564:LYS:HE3	2.24	0.58
1:E:363:TYR:OH	1:E:417:GLY:HA3	2.02	0.58
1:E:490:ILE:HG22	1:E:491:HIS:O	2.02	0.58
1:E:629:THR:HG23	1:E:632:ARG:NH2	2.19	0.58
1:A:273:PRO:CG	1:A:433:GLN:HG3	2.23	0.58
1:A:524:LEU:CD2	1:A:549:THR:HG22	2.18	0.58
1:A:1357:LEU:HD23	1:A:1530:TYR:CD2	2.36	0.58
1:B:274:ALA:HB3	1:B:1519:ILE:CG1	2.32	0.58
1:B:363:TYR:CE2	1:B:414:LEU:HB3	2.37	0.58
1:C:480:LEU:HB3	1:C:484:TYR:CE2	2.38	0.58
1:C:653:ILE:HD11	1:C:764:MET:HE1	1.85	0.58
1:C:1332:VAL:HG23	1:C:1332:VAL:O	2.03	0.58
1:E:233:GLN:HA	1:E:236:LEU:CD1	2.33	0.58
1:E:295:GLN:HB3	1:E:454:PRO:CD	2.33	0.58
1:A:233:GLN:HA	1:A:236:LEU:CD1	2.33	0.58
1:A:598:HIS:HB3	1:A:638:THR:CG2	2.33	0.58
1:A:667:ILE:HA	1:A:670:LEU:HD13	1.86	0.58
1:B:233:GLN:HA	1:B:236:LEU:CD1	2.33	0.58
1:B:295:GLN:CB	1:B:454:PRO:HD2	2.33	0.58
1:B:536:ILE:HD12	1:B:547:ARG:HB3	1.86	0.58
1:B:1355:PRO:HB2	1:B:1555:PHE:CZ	2.39	0.58
1:C:251:LEU:HD21	1:C:470:ILE:HD13	1.85	0.58
1:C:371:LYS:HA	1:C:377:GLU:HA	1.84	0.58
1:C:521:THR:CB	1:C:522:PRO:HD3	2.29	0.58
1:C:598:HIS:HB3	1:C:638:THR:CG2	2.33	0.58
1:C:630:LEU:HD23	1:C:634:LEU:HG	1.85	0.58
1:C:1355:PRO:HB2	1:C:1555:PHE:CZ	2.39	0.58
1:C:1452:ILE:HD12	1:C:1452:ILE:N	2.18	0.58
1:D:251:LEU:HD21	1:D:470:ILE:HD13	1.85	0.58
1:D:612:VAL:CG1	1:D:614:GLU:H	2.15	0.58
1:D:623:SER:HB2	1:D:626:GLN:CG	2.26	0.58
1:D:630:LEU:HD23	1:D:634:LEU:HG	1.85	0.58
1:D:653:ILE:HG13	1:D:764:MET:HE1	1.86	0.58
1:E:536:ILE:HD12	1:E:547:ARG:HB3	1.86	0.58
1:B:598:HIS:HB3	1:B:638:THR:CG2	2.33	0.58
1:B:848:GLN:O	1:B:852:GLN:HG2	2.03	0.58
1:B:1527:GLU:HG2	1:B:1528:MET:N	2.18	0.58
1:D:341:MET:HB2	1:D:422:ALA:CB	2.34	0.58
1:D:515:PHE:HE2	1:D:528:TYR:HD2	1.51	0.58
1:D:524:LEU:HD11	1:D:550:ILE:CG1	2.32	0.58
1:D:717:LYS:HB3	1:D:794:PRO:HG3	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1339:THR:HG22	1:D:1340:ILE:H	1.67	0.58
1:A:295:GLN:HB3	1:A:454:PRO:CD	2.33	0.58
1:A:629:THR:HG23	1:A:632:ARG:NH2	2.19	0.58
1:B:251:LEU:CD2	1:B:446:LEU:HD21	2.32	0.58
1:B:607:LEU:HD22	1:B:649:PHE:CD2	2.38	0.58
1:B:667:ILE:HA	1:B:670:LEU:HD13	1.85	0.58
1:B:1312:ILE:HD11	1:B:1574:VAL:CG2	2.22	0.58
1:C:623:SER:HB2	1:C:626:GLN:CG	2.26	0.58
1:D:295:GLN:HB3	1:D:454:PRO:CD	2.33	0.58
1:D:296:PHE:CG	1:D:444:ILE:HG12	2.39	0.58
1:D:503:ILE:HB	1:D:582:LEU:HD11	1.85	0.58
1:D:667:ILE:HA	1:D:670:LEU:HD13	1.85	0.58
1:D:845:LEU:HD21	1:D:881:VAL:HG13	1.85	0.58
1:E:341:MET:HB2	1:E:422:ALA:CB	2.34	0.58
1:E:515:PHE:HE2	1:E:528:TYR:HD2	1.51	0.58
1:A:341:MET:HB2	1:A:422:ALA:CB	2.34	0.58
1:A:1355:PRO:HB2	1:A:1555:PHE:CZ	2.39	0.58
1:A:1426:ARG:NH1	1:A:1428:THR:HB	2.18	0.58
1:B:319:ASN:ND2	1:B:322:ASP:HB2	2.19	0.58
1:B:1542:LEU:HD11	1:B:1550:SER:O	2.04	0.58
1:C:1316:VAL:HG21	1:C:1573:PRO:CD	2.34	0.58
1:C:1372:CYS:HA	1:C:1375:MET:HG2	1.84	0.58
1:D:464:VAL:HG11	1:D:477:LYS:CD	2.33	0.58
1:D:689:LEU:HD13	1:D:713:LEU:HD21	1.84	0.58
1:D:860:PRO:HB2	1:D:872:THR:HG21	1.85	0.58
1:E:845:LEU:HD21	1:E:881:VAL:HG13	1.85	0.58
1:A:296:PHE:CG	1:A:444:ILE:HG12	2.39	0.58
1:A:1559:ALA:HB2	1:A:1565:LEU:HD21	1.85	0.58
1:B:524:LEU:HD21	1:B:550:ILE:HA	1.85	0.58
1:B:536:ILE:HD12	1:B:547:ARG:CB	2.34	0.58
1:B:1340:ILE:HG12	1:B:1572:ILE:CG2	2.34	0.58
1:C:227:ILE:C	1:C:230:LEU:HD13	2.25	0.58
1:C:319:ASN:OD1	1:C:322:ASP:HB2	2.03	0.58
1:C:319:ASN:ND2	1:C:322:ASP:HB2	2.19	0.58
1:C:464:VAL:HG11	1:C:477:LYS:CD	2.34	0.58
1:C:1340:ILE:HG12	1:C:1572:ILE:HD13	1.86	0.58
1:C:1343:LYS:O	1:C:1349:LEU:HD12	2.03	0.58
1:C:1542:LEU:HD11	1:C:1550:SER:O	2.04	0.58
1:D:1426:ARG:NH1	1:D:1428:THR:HB	2.18	0.58
1:D:1542:LEU:HD11	1:D:1550:SER:O	2.04	0.58
1:E:296:PHE:CG	1:E:444:ILE:HG12	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1343:LYS:O	1:E:1349:LEU:HD12	2.03	0.58
1:E:1380:LYS:HD3	1:E:1414:THR:OG1	2.03	0.58
1:E:1426:ARG:NH1	1:E:1428:THR:HB	2.18	0.58
1:A:500:ASN:OD1	1:A:627:LEU:HD22	2.04	0.57
1:A:536:ILE:HD12	1:A:547:ARG:CB	2.34	0.57
1:A:1316:VAL:HG21	1:A:1573:PRO:CD	2.34	0.57
1:A:1332:VAL:HG23	1:A:1332:VAL:O	2.03	0.57
1:A:1340:ILE:HG12	1:A:1572:ILE:CG2	2.34	0.57
1:B:319:ASN:OD1	1:B:322:ASP:HB2	2.03	0.57
1:B:713:LEU:CD1	1:B:781:THR:HG22	2.23	0.57
1:B:1364:TYR:O	1:B:1365:GLU:HG2	2.04	0.57
1:C:233:GLN:HA	1:C:236:LEU:CD1	2.33	0.57
1:C:296:PHE:CG	1:C:444:ILE:HG12	2.39	0.57
1:C:667:ILE:HA	1:C:670:LEU:HD13	1.86	0.57
1:C:718:LEU:HD12	1:C:762:LEU:HD23	1.85	0.57
1:C:1365:GLU:OE1	1:C:1365:GLU:HA	2.04	0.57
1:D:536:ILE:HD12	1:D:547:ARG:CB	2.34	0.57
1:E:227:ILE:C	1:E:230:LEU:HD13	2.25	0.57
1:E:536:ILE:HD12	1:E:547:ARG:CB	2.34	0.57
1:E:538:LEU:HD21	1:E:551:LEU:CD1	2.34	0.57
1:E:689:LEU:HD13	1:E:713:LEU:HD21	1.84	0.57
1:E:1404:PHE:CE1	1:E:1426:ARG:HD3	2.39	0.57
1:E:1542:LEU:HD11	1:E:1550:SER:O	2.04	0.57
1:B:538:LEU:HD21	1:B:551:LEU:CD1	2.34	0.57
1:B:714:TRP:HE3	1:B:762:LEU:HD11	1.69	0.57
1:B:1316:VAL:HG21	1:B:1573:PRO:CD	2.35	0.57
1:C:1327:TYR:CD2	1:C:1563:ARG:HB3	2.39	0.57
1:D:629:THR:HG23	1:D:632:ARG:NH2	2.19	0.57
1:E:251:LEU:HD21	1:E:470:ILE:HD13	1.85	0.57
1:E:251:LEU:HD23	1:E:446:LEU:HD21	1.86	0.57
1:E:1360:ILE:HG21	1:E:1362:ASN:ND2	2.18	0.57
1:A:296:PHE:CD2	1:A:444:ILE:HG12	2.40	0.57
1:A:503:ILE:HB	1:A:582:LEU:HD11	1.85	0.57
1:A:771:ILE:HG22	1:A:772:ASN:N	2.19	0.57
1:B:251:LEU:HD21	1:B:470:ILE:HD13	1.85	0.57
1:B:439:LYS:HA	1:B:442:LYS:HZ1	1.69	0.57
1:C:536:ILE:HD12	1:C:547:ARG:HB3	1.86	0.57
1:D:1327:TYR:CD2	1:D:1563:ARG:HB3	2.39	0.57
1:D:1559:ALA:HB2	1:D:1565:LEU:HD21	1.85	0.57
1:E:1316:VAL:HG21	1:E:1573:PRO:CD	2.34	0.57
1:E:1364:TYR:O	1:E:1365:GLU:HG2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:264:TYR:CE1	1:A:434:TYR:HD1	2.23	0.57
1:A:447:SER:OG	1:A:454:PRO:HG3	2.05	0.57
1:A:1323:GLY:HA3	1:A:1567:TYR:CZ	2.40	0.57
1:A:1542:LEU:HD11	1:A:1550:SER:O	2.04	0.57
1:B:500:ASN:OD1	1:B:627:LEU:HD22	2.04	0.57
1:B:771:ILE:HG22	1:B:772:ASN:N	2.19	0.57
1:C:237:LEU:CG	1:C:479:PHE:HB2	2.26	0.57
1:C:296:PHE:CD2	1:C:444:ILE:HG12	2.40	0.57
1:C:331:THR:HB	1:C:427:THR:HB	1.87	0.57
1:D:319:ASN:ND2	1:D:322:ASP:HB2	2.19	0.57
1:D:1340:ILE:HG12	1:D:1572:ILE:CG2	2.34	0.57
1:D:1357:LEU:HD23	1:D:1530:TYR:CD2	2.36	0.57
1:D:1360:ILE:HG21	1:D:1362:ASN:ND2	2.18	0.57
1:E:264:TYR:CD1	1:E:434:TYR:CD1	2.92	0.57
1:E:296:PHE:CD2	1:E:444:ILE:HG12	2.40	0.57
1:E:500:ASN:OD1	1:E:627:LEU:HD22	2.04	0.57
1:E:630:LEU:HD23	1:E:630:LEU:O	2.05	0.57
1:A:515:PHE:HE2	1:A:528:TYR:HD2	1.51	0.57
1:A:1327:TYR:CD2	1:A:1563:ARG:HB3	2.39	0.57
1:B:789:ALA:CB	1:B:792:ALA:HB3	2.29	0.57
1:B:1323:GLY:HA3	1:B:1567:TYR:CZ	2.40	0.57
1:C:538:LEU:HD21	1:C:551:LEU:CD1	2.34	0.57
1:C:538:LEU:HD21	1:C:551:LEU:HD12	1.87	0.57
1:C:1426:ARG:NH1	1:C:1428:THR:HB	2.18	0.57
1:C:1559:ALA:HB2	1:C:1565:LEU:HD21	1.85	0.57
1:D:227:ILE:C	1:D:230:LEU:HD13	2.25	0.57
1:D:536:ILE:HD12	1:D:547:ARG:HB3	1.86	0.57
1:D:718:LEU:HD12	1:D:762:LEU:HD23	1.86	0.57
1:D:1316:VAL:HG21	1:D:1573:PRO:CD	2.34	0.57
1:E:341:MET:HE3	1:E:422:ALA:HB3	1.85	0.57
1:E:623:SER:HB2	1:E:626:GLN:CG	2.26	0.57
1:A:845:LEU:HD21	1:A:881:VAL:HG13	1.85	0.57
1:B:749:GLN:O	1:B:753:VAL:HG23	2.05	0.57
1:B:1426:ARG:NH1	1:B:1428:THR:HB	2.18	0.57
1:C:368:LEU:HD13	1:C:412:ARG:HB3	1.86	0.57
1:C:447:SER:OG	1:C:454:PRO:HG3	2.05	0.57
1:C:515:PHE:HE2	1:C:528:TYR:HD2	1.51	0.57
1:C:536:ILE:HD12	1:C:547:ARG:CB	2.34	0.57
1:C:1360:ILE:HG21	1:C:1362:ASN:ND2	2.18	0.57
1:D:233:GLN:HA	1:D:236:LEU:CD1	2.33	0.57
1:D:264:TYR:CD1	1:D:434:TYR:CD1	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:714:TRP:HE3	1:D:762:LEU:HD11	1.69	0.57
1:D:1355:PRO:HB2	1:D:1555:PHE:CZ	2.39	0.57
1:D:1364:TYR:O	1:D:1365:GLU:HG2	2.04	0.57
1:B:1327:TYR:CD2	1:B:1563:ARG:HB3	2.39	0.57
1:D:1340:ILE:HG12	1:D:1572:ILE:HD13	1.86	0.57
1:D:1421:ARG:HH21	1:D:1423:LEU:HD21	1.70	0.57
1:E:273:PRO:CG	1:E:433:GLN:HG3	2.23	0.57
1:A:319:ASN:ND2	1:A:322:ASP:HB2	2.19	0.57
1:A:538:LEU:HD21	1:A:551:LEU:CD1	2.35	0.57
1:A:630:LEU:HD23	1:A:630:LEU:O	2.05	0.57
1:A:714:TRP:HE3	1:A:762:LEU:HD11	1.69	0.57
1:A:749:GLN:O	1:A:753:VAL:HG23	2.05	0.57
1:B:264:TYR:CD1	1:B:434:TYR:CD1	2.92	0.57
1:B:295:GLN:HB3	1:B:454:PRO:CD	2.33	0.57
1:B:341:MET:HB2	1:B:422:ALA:CB	2.34	0.57
1:B:464:VAL:HG11	1:B:477:LYS:CD	2.34	0.57
1:C:1323:GLY:HA3	1:C:1567:TYR:CZ	2.40	0.57
1:C:1386:ILE:HD11	1:C:1410:TYR:OH	2.05	0.57
1:D:251:LEU:HD23	1:D:446:LEU:HD21	1.86	0.57
1:D:273:PRO:CB	1:D:433:GLN:HB2	2.21	0.57
1:D:538:LEU:HD21	1:D:551:LEU:CD1	2.34	0.57
1:D:538:LEU:HD21	1:D:551:LEU:HD12	1.87	0.57
1:D:771:ILE:HG22	1:D:772:ASN:N	2.19	0.57
1:E:447:SER:OG	1:E:454:PRO:HG3	2.05	0.57
1:E:653:ILE:HG13	1:E:764:MET:HE1	1.86	0.57
1:A:331:THR:HB	1:A:427:THR:HB	1.87	0.57
1:A:524:LEU:HD21	1:A:550:ILE:HA	1.85	0.57
1:B:1386:ILE:HD11	1:B:1410:TYR:OH	2.05	0.57
1:C:574:LYS:HD2	1:C:574:LYS:H	1.70	0.57
1:C:850:SER:HB3	1:C:867:ALA:HB1	1.87	0.57
1:E:771:ILE:HG22	1:E:772:ASN:N	2.19	0.57
1:A:227:ILE:C	1:A:230:LEU:HD13	2.25	0.57
1:A:536:ILE:HD12	1:A:547:ARG:HB3	1.86	0.57
1:A:653:ILE:HG13	1:A:764:MET:HE1	1.86	0.57
1:A:1364:TYR:O	1:A:1365:GLU:HG2	2.04	0.57
1:A:1421:ARG:HH21	1:A:1423:LEU:HD21	1.70	0.57
1:B:296:PHE:CD2	1:B:444:ILE:HG12	2.40	0.57
1:B:1340:ILE:HG12	1:B:1572:ILE:HD13	1.86	0.57
1:C:264:TYR:CD1	1:C:434:TYR:CD1	2.92	0.57
1:C:500:ASN:OD1	1:C:627:LEU:HD22	2.04	0.57
1:C:771:ILE:HG22	1:C:772:ASN:N	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:671:LEU:HD23	1:D:734:LEU:HD22	1.87	0.57
1:D:1468:LYS:NZ	1:D:1486:PRO:HB2	2.20	0.57
1:E:331:THR:HB	1:E:427:THR:HB	1.87	0.57
1:E:524:LEU:CD2	1:E:549:THR:HG22	2.18	0.57
1:E:538:LEU:HD21	1:E:551:LEU:HD12	1.87	0.57
1:E:1327:TYR:CD2	1:E:1563:ARG:HB3	2.39	0.57
1:E:1355:PRO:HB2	1:E:1555:PHE:CZ	2.39	0.57
1:B:264:TYR:CE1	1:B:268:PHE:HB2	2.40	0.56
1:C:264:TYR:CE1	1:C:268:PHE:HB2	2.40	0.56
1:C:1340:ILE:HG12	1:C:1572:ILE:CG2	2.34	0.56
1:D:414:LEU:HD12	1:D:414:LEU:C	2.26	0.56
1:D:447:SER:OG	1:D:454:PRO:HG3	2.05	0.56
1:A:1312:ILE:HD12	1:A:1574:VAL:CA	2.33	0.56
1:A:1404:PHE:CE1	1:A:1426:ARG:HD3	2.39	0.56
1:B:227:ILE:C	1:B:230:LEU:HD13	2.25	0.56
1:B:273:PRO:CG	1:B:433:GLN:HG3	2.23	0.56
1:B:521:THR:CB	1:B:522:PRO:HD3	2.29	0.56
1:B:538:LEU:HD21	1:B:551:LEU:HD12	1.87	0.56
1:B:574:LYS:H	1:B:574:LYS:HD2	1.70	0.56
1:B:1312:ILE:HD12	1:B:1574:VAL:CA	2.33	0.56
1:B:1559:ALA:HB2	1:B:1565:LEU:HD21	1.85	0.56
1:D:331:THR:HB	1:D:427:THR:HB	1.87	0.56
1:D:574:LYS:H	1:D:574:LYS:HD2	1.70	0.56
1:E:733:TRP:HE1	1:E:748:THR:HG1	1.52	0.56
1:E:1332:VAL:HG23	1:E:1332:VAL:O	2.03	0.56
1:A:230:LEU:HG	1:A:856:HIS:HB3	1.87	0.56
1:A:414:LEU:HD12	1:A:414:LEU:C	2.26	0.56
1:A:1386:ILE:HD11	1:A:1410:TYR:OH	2.05	0.56
1:B:251:LEU:HD23	1:B:446:LEU:HD21	1.86	0.56
1:B:331:THR:HB	1:B:427:THR:HB	1.87	0.56
1:B:605:LEU:HD13	1:B:609:LEU:HG	1.87	0.56
1:B:629:THR:HG23	1:B:632:ARG:NH2	2.19	0.56
1:B:830:LEU:HD22	1:B:874:ILE:CD1	2.36	0.56
1:B:1337:ILE:O	1:B:1337:ILE:HG13	2.06	0.56
1:B:1365:GLU:OE1	1:B:1365:GLU:HA	2.04	0.56
1:C:264:TYR:CE1	1:C:434:TYR:HD1	2.23	0.56
1:C:273:PRO:CB	1:C:433:GLN:HB2	2.21	0.56
1:C:503:ILE:HB	1:C:582:LEU:HD11	1.85	0.56
1:C:629:THR:HG23	1:C:632:ARG:NH2	2.19	0.56
1:C:630:LEU:HD23	1:C:630:LEU:O	2.05	0.56
1:C:830:LEU:HD22	1:C:874:ILE:CD1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1364:TYR:O	1:C:1365:GLU:HG2	2.04	0.56
1:C:1386:ILE:CD1	1:C:1468:LYS:HE3	2.34	0.56
1:D:296:PHE:CD2	1:D:444:ILE:HG12	2.40	0.56
1:D:483:TYR:HA	1:D:486:GLN:NE2	2.19	0.56
1:D:492:ALA:O	1:D:496:LEU:HG	2.05	0.56
1:D:515:PHE:CZ	1:D:528:TYR:CD2	2.94	0.56
1:D:630:LEU:HD23	1:D:630:LEU:O	2.05	0.56
1:D:850:SER:HB3	1:D:867:ALA:HB1	1.87	0.56
1:D:1323:GLY:HA3	1:D:1567:TYR:CZ	2.40	0.56
1:E:264:TYR:CE1	1:E:268:PHE:HB2	2.40	0.56
1:E:483:TYR:HA	1:E:486:GLN:NE2	2.19	0.56
1:E:515:PHE:CZ	1:E:528:TYR:CD2	2.94	0.56
1:E:830:LEU:HD22	1:E:874:ILE:CD1	2.35	0.56
1:E:1337:ILE:HG13	1:E:1337:ILE:O	2.06	0.56
1:E:1340:ILE:HG12	1:E:1572:ILE:HD13	1.86	0.56
1:E:1365:GLU:OE1	1:E:1365:GLU:HA	2.04	0.56
1:E:1468:LYS:NZ	1:E:1486:PRO:HB2	2.20	0.56
1:A:483:TYR:HA	1:A:486:GLN:NE2	2.19	0.56
1:A:1365:GLU:OE1	1:A:1365:GLU:HA	2.04	0.56
1:B:264:TYR:CE1	1:B:434:TYR:HD1	2.23	0.56
1:B:524:LEU:CD1	1:B:550:ILE:HG12	2.36	0.56
1:C:492:ALA:O	1:C:496:LEU:HG	2.05	0.56
1:D:562:LEU:O	1:D:565:LEU:HB2	2.06	0.56
1:E:598:HIS:CB	1:E:600:LEU:HD13	2.35	0.56
1:E:749:GLN:O	1:E:753:VAL:HG23	2.05	0.56
1:A:368:LEU:HD13	1:A:412:ARG:HB3	1.87	0.56
1:A:524:LEU:CD1	1:A:550:ILE:HG12	2.36	0.56
1:B:230:LEU:HG	1:B:856:HIS:HB3	1.86	0.56
1:B:630:LEU:HD23	1:B:630:LEU:O	2.05	0.56
1:C:251:LEU:HD23	1:C:446:LEU:HD21	1.87	0.56
1:C:414:LEU:HD12	1:C:414:LEU:C	2.26	0.56
1:D:368:LEU:HD13	1:D:412:ARG:HB3	1.87	0.56
1:D:1386:ILE:HD11	1:D:1410:TYR:OH	2.05	0.56
1:E:562:LEU:O	1:E:565:LEU:HB2	2.06	0.56
1:E:1340:ILE:HG12	1:E:1572:ILE:CG2	2.34	0.56
1:A:264:TYR:CD1	1:A:434:TYR:CD1	2.92	0.56
1:A:538:LEU:HD21	1:A:551:LEU:HD12	1.87	0.56
1:A:605:LEU:HD13	1:A:609:LEU:HG	1.87	0.56
1:A:850:SER:HB3	1:A:867:ALA:HB1	1.87	0.56
1:B:850:SER:HB3	1:B:867:ALA:HB1	1.87	0.56
1:B:859:LEU:HB2	1:B:860:PRO:CD	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:230:LEU:HG	1:C:856:HIS:HB3	1.87	0.56
1:C:483:TYR:HA	1:C:486:GLN:NE2	2.19	0.56
1:C:1468:LYS:NZ	1:C:1486:PRO:HB2	2.20	0.56
1:D:500:ASN:OD1	1:D:627:LEU:HD22	2.04	0.56
1:D:749:GLN:O	1:D:753:VAL:HG23	2.05	0.56
1:E:524:LEU:CD1	1:E:550:ILE:HG12	2.36	0.56
1:E:671:LEU:HD23	1:E:734:LEU:HD22	1.87	0.56
1:E:852:GLN:HB3	1:E:880:TRP:CE3	2.41	0.56
1:E:1386:ILE:CD1	1:E:1468:LYS:HE3	2.34	0.56
1:A:264:TYR:CE1	1:A:268:PHE:HB2	2.40	0.56
1:A:441:ASN:HD21	1:A:445:ARG:NH1	2.04	0.56
1:A:654:MET:HE3	1:A:765:VAL:CA	2.28	0.56
1:A:1340:ILE:HG12	1:A:1572:ILE:HD13	1.86	0.56
1:B:447:SER:OG	1:B:454:PRO:HG3	2.05	0.56
1:C:714:TRP:HE3	1:C:762:LEU:HD11	1.69	0.56
1:D:538:LEU:HD13	1:D:588:LEU:HD21	1.88	0.56
1:E:319:ASN:ND2	1:E:322:ASP:HB2	2.19	0.56
1:E:441:ASN:HD21	1:E:445:ARG:NH1	2.04	0.56
1:E:500:ASN:CG	1:E:627:LEU:HD22	2.26	0.56
1:E:1323:GLY:HA3	1:E:1567:TYR:CZ	2.40	0.56
1:A:484:TYR:CE1	1:A:631:ILE:HG21	2.41	0.56
1:A:492:ALA:O	1:A:496:LEU:HG	2.05	0.56
1:A:500:ASN:CG	1:A:627:LEU:HD22	2.26	0.56
1:A:574:LYS:H	1:A:574:LYS:HD2	1.70	0.56
1:A:1400:ASN:O	1:A:1401:LYS:HB2	2.06	0.56
1:B:414:LEU:HD12	1:B:414:LEU:C	2.26	0.56
1:B:441:ASN:HD21	1:B:445:ARG:NH1	2.04	0.56
1:B:623:SER:CA	1:B:626:GLN:HG2	2.36	0.56
1:C:273:PRO:HG2	1:C:433:GLN:CG	2.24	0.56
1:C:852:GLN:HB3	1:C:880:TRP:CE3	2.41	0.56
1:C:859:LEU:HB2	1:C:860:PRO:CD	2.36	0.56
1:C:1400:ASN:O	1:C:1401:LYS:HB2	2.06	0.56
1:D:264:TYR:CE1	1:D:268:PHE:HB2	2.40	0.56
1:D:623:SER:CA	1:D:626:GLN:HG2	2.36	0.56
1:D:852:GLN:HB3	1:D:880:TRP:CE3	2.41	0.56
1:E:1556:THR:CB	1:E:1564:LYS:HE3	2.24	0.56
1:A:515:PHE:CZ	1:A:528:TYR:CD2	2.94	0.56
1:A:653:ILE:HD11	1:A:764:MET:CE	2.36	0.56
1:B:503:ILE:N	1:B:582:LEU:HD11	2.21	0.56
1:B:653:ILE:HD11	1:B:764:MET:CE	2.36	0.56
1:B:718:LEU:CD2	1:B:794:PRO:HG2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:500:ASN:CG	1:C:627:LEU:HD22	2.26	0.56
1:C:653:ILE:HG13	1:C:764:MET:HE1	1.87	0.56
1:D:830:LEU:HD22	1:D:874:ILE:CD1	2.36	0.56
1:D:1337:ILE:O	1:D:1337:ILE:HG13	2.06	0.56
1:E:368:LEU:HD13	1:E:412:ARG:HB3	1.87	0.56
1:E:414:LEU:HD12	1:E:414:LEU:C	2.26	0.56
1:E:605:LEU:HD13	1:E:609:LEU:HG	1.87	0.56
1:E:1386:ILE:HD11	1:E:1410:TYR:OH	2.05	0.56
1:A:562:LEU:O	1:A:565:LEU:HB2	2.06	0.56
1:A:859:LEU:HB2	1:A:860:PRO:CD	2.36	0.56
1:B:484:TYR:CE1	1:B:631:ILE:HG21	2.41	0.56
1:B:671:LEU:HD23	1:B:734:LEU:HD22	1.87	0.56
1:B:852:GLN:HB3	1:B:880:TRP:CE3	2.41	0.56
1:C:515:PHE:CZ	1:C:528:TYR:HD2	2.24	0.56
1:C:598:HIS:CB	1:C:600:LEU:HD13	2.35	0.56
1:C:671:LEU:HD23	1:C:734:LEU:HD22	1.87	0.56
1:D:251:LEU:CD2	1:D:470:ILE:HD13	2.36	0.56
1:D:594:LEU:HD11	1:D:634:LEU:HD12	1.88	0.56
1:D:1365:GLU:OE1	1:D:1365:GLU:HA	2.04	0.56
1:D:1381:LEU:HB3	1:D:1523:PRO:HB2	1.88	0.56
1:A:251:LEU:CD2	1:A:470:ILE:HD13	2.36	0.55
1:A:1556:THR:CB	1:A:1564:LYS:HE3	2.24	0.55
1:B:368:LEU:HD13	1:B:412:ARG:HB3	1.87	0.55
1:B:483:TYR:HA	1:B:486:GLN:NE2	2.19	0.55
1:B:492:ALA:O	1:B:496:LEU:HG	2.05	0.55
1:B:515:PHE:CZ	1:B:528:TYR:HD2	2.24	0.55
1:C:503:ILE:N	1:C:582:LEU:HD11	2.21	0.55
1:D:264:TYR:CE1	1:D:434:TYR:HD1	2.23	0.55
1:D:297:ILE:HG13	1:D:297:ILE:O	2.06	0.55
1:D:605:LEU:HD13	1:D:609:LEU:HG	1.87	0.55
1:E:245:PRO:O	1:E:248:PHE:HB3	2.07	0.55
1:E:1421:ARG:HH21	1:E:1423:LEU:HD21	1.70	0.55
1:A:251:LEU:HD23	1:A:446:LEU:HD21	1.86	0.55
1:A:341:MET:HE3	1:A:422:ALA:HB3	1.88	0.55
1:A:721:GLY:HA2	1:A:754:GLN:CD	2.27	0.55
1:A:1472:PHE:CE1	1:A:1474:THR:HG23	2.41	0.55
1:B:1367:GLN:OE1	1:B:1391:LEU:HD12	2.06	0.55
1:B:1386:ILE:CD1	1:B:1468:LYS:HE3	2.34	0.55
1:B:1421:ARG:HH21	1:B:1423:LEU:HD21	1.70	0.55
1:B:1468:LYS:NZ	1:B:1486:PRO:HB2	2.20	0.55
1:C:515:PHE:CZ	1:C:528:TYR:CD2	2.94	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:640:TRP:HE1	1:C:802:ILE:HG13	1.72	0.55
1:C:749:GLN:O	1:C:753:VAL:HG23	2.05	0.55
1:D:718:LEU:CD2	1:D:794:PRO:HG2	2.36	0.55
1:D:1367:GLN:OE1	1:D:1391:LEU:HD12	2.07	0.55
1:D:1400:ASN:O	1:D:1401:LYS:HB2	2.06	0.55
1:E:264:TYR:CE1	1:E:434:TYR:HD1	2.23	0.55
1:E:654:MET:HE3	1:E:765:VAL:CB	2.36	0.55
1:E:726:THR:HG22	1:E:728:GLU:H	1.71	0.55
1:E:850:SER:HB3	1:E:867:ALA:HB1	1.87	0.55
1:A:830:LEU:HD22	1:A:874:ILE:CD1	2.36	0.55
1:A:1468:LYS:NZ	1:A:1486:PRO:HB2	2.20	0.55
1:B:1438:ILE:HB	1:B:1441:ALA:HB3	1.88	0.55
1:C:251:LEU:CD2	1:C:470:ILE:HD13	2.36	0.55
1:C:721:GLY:HA2	1:C:754:GLN:CD	2.27	0.55
1:C:726:THR:HG22	1:C:728:GLU:H	1.72	0.55
1:C:1438:ILE:HB	1:C:1441:ALA:HB3	1.88	0.55
1:D:721:GLY:HA2	1:D:754:GLN:CD	2.27	0.55
1:E:503:ILE:N	1:E:582:LEU:HD11	2.21	0.55
1:E:622:ILE:HG12	1:E:626:GLN:CG	2.22	0.55
1:E:859:LEU:HB2	1:E:860:PRO:CD	2.36	0.55
1:E:1511:PHE:HB3	1:E:1516:ASP:OD2	2.07	0.55
1:A:264:TYR:CE2	1:A:268:PHE:CD2	2.95	0.55
1:A:1337:ILE:O	1:A:1337:ILE:HG13	2.06	0.55
1:B:515:PHE:CZ	1:B:528:TYR:CD2	2.94	0.55
1:B:594:LEU:HD11	1:B:634:LEU:HD12	1.89	0.55
1:C:439:LYS:HA	1:C:442:LYS:HZ1	1.72	0.55
1:C:562:LEU:O	1:C:565:LEU:HB2	2.06	0.55
1:C:594:LEU:HD11	1:C:634:LEU:HD12	1.89	0.55
1:C:605:LEU:HD13	1:C:609:LEU:HG	1.87	0.55
1:D:288:LEU:HB2	1:D:293:LEU:CD2	2.37	0.55
1:E:484:TYR:CE1	1:E:631:ILE:HG21	2.41	0.55
1:E:721:GLY:HA2	1:E:754:GLN:CD	2.27	0.55
1:A:498:LEU:HD11	1:A:593:LEU:CD2	2.36	0.55
1:A:521:THR:CB	1:A:522:PRO:HD3	2.29	0.55
1:A:671:LEU:HD23	1:A:734:LEU:HD22	1.87	0.55
1:A:718:LEU:CD2	1:A:794:PRO:HG2	2.36	0.55
1:B:500:ASN:CG	1:B:627:LEU:HD22	2.26	0.55
1:C:441:ASN:HD21	1:C:445:ARG:NH1	2.04	0.55
1:C:640:TRP:CH2	1:C:646:TRP:CZ3	2.95	0.55
1:C:653:ILE:HD11	1:C:764:MET:CE	2.36	0.55
1:C:714:TRP:CZ3	1:C:776:PHE:CE1	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:230:LEU:HG	1:D:856:HIS:HB3	1.87	0.55
1:D:484:TYR:CE1	1:D:631:ILE:HG21	2.41	0.55
1:D:714:TRP:CZ3	1:D:776:PHE:CE1	2.95	0.55
1:E:288:LEU:HB2	1:E:293:LEU:CD2	2.37	0.55
1:E:297:ILE:HG13	1:E:297:ILE:O	2.06	0.55
1:E:594:LEU:HD11	1:E:634:LEU:HD12	1.89	0.55
1:E:1381:LEU:HB3	1:E:1523:PRO:HB2	1.88	0.55
1:E:1392:GLY:O	1:E:1481:THR:HG23	2.07	0.55
1:A:515:PHE:CZ	1:A:528:TYR:HD2	2.24	0.55
1:A:538:LEU:HD13	1:A:588:LEU:HD21	1.88	0.55
1:A:594:LEU:HD11	1:A:634:LEU:HD12	1.89	0.55
1:A:640:TRP:HE1	1:A:802:ILE:HG13	1.72	0.55
1:B:245:PRO:O	1:B:248:PHE:HB3	2.07	0.55
1:B:538:LEU:HD13	1:B:588:LEU:HD21	1.88	0.55
1:B:640:TRP:HE1	1:B:802:ILE:HG13	1.72	0.55
1:B:654:MET:CE	1:B:765:VAL:HG22	2.13	0.55
1:B:1472:PHE:CE1	1:B:1474:THR:HG23	2.41	0.55
1:C:622:ILE:HG12	1:C:626:GLN:CG	2.22	0.55
1:C:1381:LEU:HB3	1:C:1523:PRO:HB2	1.88	0.55
1:C:1511:PHE:HB3	1:C:1516:ASP:OD2	2.07	0.55
1:D:441:ASN:HD21	1:D:445:ARG:NH1	2.04	0.55
1:D:515:PHE:CZ	1:D:528:TYR:HD2	2.24	0.55
1:E:264:TYR:CE2	1:E:268:PHE:CD2	2.95	0.55
1:E:295:GLN:CB	1:E:454:PRO:HG2	2.37	0.55
1:E:439:LYS:HA	1:E:442:LYS:HZ1	1.71	0.55
1:E:574:LYS:H	1:E:574:LYS:HD2	1.70	0.55
1:E:640:TRP:CH2	1:E:646:TRP:CZ3	2.95	0.55
1:A:288:LEU:HB2	1:A:293:LEU:CD2	2.37	0.55
1:A:563:PHE:CZ	1:A:567:LYS:HE2	2.42	0.55
1:A:623:SER:CA	1:A:626:GLN:HG2	2.36	0.55
1:A:852:GLN:HB3	1:A:880:TRP:CE3	2.41	0.55
1:A:1386:ILE:CD1	1:A:1468:LYS:HE3	2.34	0.55
1:B:1511:PHE:HB3	1:B:1516:ASP:OD2	2.07	0.55
1:C:245:PRO:O	1:C:248:PHE:HB3	2.07	0.55
1:C:295:GLN:CB	1:C:454:PRO:HG2	2.37	0.55
1:C:524:LEU:CD2	1:C:549:THR:HG22	2.18	0.55
1:C:718:LEU:CD2	1:C:794:PRO:HG2	2.36	0.55
1:C:1337:ILE:HG13	1:C:1337:ILE:O	2.06	0.55
1:C:1392:GLY:O	1:C:1481:THR:HG23	2.07	0.55
1:C:1472:PHE:CE1	1:C:1474:THR:HG23	2.41	0.55
1:E:1472:PHE:CE1	1:E:1474:THR:HG23	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:640:TRP:CH2	1:A:646:TRP:CZ3	2.95	0.55
1:A:1367:GLN:OE1	1:A:1391:LEU:HD12	2.07	0.55
1:B:218:LEU:CD1	1:B:239:ILE:HB	2.23	0.55
1:B:563:PHE:CZ	1:B:567:LYS:HE2	2.42	0.55
1:B:726:THR:HG22	1:B:728:GLU:H	1.72	0.55
1:B:1381:LEU:HB3	1:B:1523:PRO:HB2	1.88	0.55
1:C:288:LEU:HB2	1:C:293:LEU:CD2	2.37	0.55
1:C:623:SER:CA	1:C:626:GLN:HG2	2.36	0.55
1:C:1404:PHE:CE1	1:C:1426:ARG:HD3	2.39	0.55
1:C:1438:ILE:HG22	1:C:1441:ALA:H	1.72	0.55
1:D:295:GLN:CB	1:D:454:PRO:HG2	2.37	0.55
1:D:500:ASN:CG	1:D:627:LEU:HD22	2.26	0.55
1:D:524:LEU:CD1	1:D:550:ILE:HG12	2.36	0.55
1:D:598:HIS:CB	1:D:638:THR:HG21	2.37	0.55
1:D:640:TRP:CH2	1:D:646:TRP:CZ3	2.95	0.55
1:D:640:TRP:HE1	1:D:802:ILE:HG13	1.72	0.55
1:D:726:THR:HG22	1:D:728:GLU:H	1.71	0.55
1:D:780:VAL:HG23	1:D:781:THR:N	2.22	0.55
1:E:653:ILE:HD11	1:E:764:MET:CE	2.36	0.55
1:E:718:LEU:CD2	1:E:794:PRO:HG2	2.36	0.55
1:A:295:GLN:CB	1:A:454:PRO:HG2	2.37	0.55
1:A:780:VAL:HG23	1:A:781:THR:N	2.22	0.55
1:A:1365:GLU:OE1	1:A:1369:ARG:HG3	2.07	0.55
1:B:264:TYR:CE2	1:B:268:PHE:CD2	2.95	0.55
1:B:1400:ASN:O	1:B:1401:LYS:HB2	2.06	0.55
1:B:1404:PHE:CE1	1:B:1426:ARG:HD3	2.39	0.55
1:C:264:TYR:CE2	1:C:268:PHE:CD2	2.95	0.55
1:C:524:LEU:CD1	1:C:550:ILE:HG12	2.36	0.55
1:C:563:PHE:CZ	1:C:567:LYS:HE2	2.42	0.55
1:C:1360:ILE:HG22	1:C:1361:HIS:N	2.22	0.55
1:C:1421:ARG:HH21	1:C:1423:LEU:HD21	1.70	0.55
1:D:540:SER:HB3	1:D:560:VAL:HA	1.88	0.55
1:E:515:PHE:CZ	1:E:528:TYR:HD2	2.24	0.55
1:E:563:PHE:CZ	1:E:567:LYS:HE2	2.42	0.55
1:E:1400:ASN:O	1:E:1401:LYS:HB2	2.06	0.55
1:A:452:LEU:HB3	1:A:456:ILE:HG21	1.89	0.55
1:A:598:HIS:CB	1:A:638:THR:HG21	2.37	0.55
1:A:1489:ILE:HG12	1:A:1563:ARG:NH2	2.22	0.55
1:B:562:LEU:HD23	1:B:562:LEU:C	2.28	0.55
1:B:598:HIS:CB	1:B:638:THR:HG21	2.37	0.55
1:B:721:GLY:HA2	1:B:754:GLN:CD	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:877:ILE:O	1:B:880:TRP:HB2	2.07	0.55
1:B:1489:ILE:HG12	1:B:1563:ARG:NH2	2.22	0.55
1:C:598:HIS:CB	1:C:638:THR:HG21	2.37	0.55
1:C:877:ILE:O	1:C:880:TRP:HB2	2.07	0.55
1:D:653:ILE:HD11	1:D:764:MET:CE	2.36	0.55
1:D:726:THR:HG22	1:D:727:ALA:N	2.22	0.55
1:D:1365:GLU:OE1	1:D:1369:ARG:HG3	2.07	0.55
1:E:492:ALA:O	1:E:496:LEU:HG	2.05	0.55
1:E:538:LEU:HD13	1:E:588:LEU:HD21	1.88	0.55
1:E:623:SER:CA	1:E:626:GLN:HG2	2.36	0.55
1:E:780:VAL:HG23	1:E:781:THR:N	2.22	0.55
1:A:623:SER:HB2	1:A:626:GLN:CG	2.26	0.54
1:B:288:LEU:HB2	1:B:293:LEU:CD2	2.37	0.54
1:B:295:GLN:CB	1:B:454:PRO:HG2	2.37	0.54
1:B:515:PHE:HE2	1:B:528:TYR:HD2	1.51	0.54
1:B:640:TRP:CH2	1:B:646:TRP:CZ3	2.95	0.54
1:B:722:ASP:H	1:B:754:GLN:HE22	1.54	0.54
1:B:1498:VAL:CG2	1:B:1557:ALA:HB2	2.37	0.54
1:C:341:MET:HE3	1:C:422:ALA:HB3	1.85	0.54
1:C:484:TYR:CE1	1:C:631:ILE:HG21	2.41	0.54
1:C:1498:VAL:CG2	1:C:1557:ALA:HB2	2.37	0.54
1:D:722:ASP:H	1:D:754:GLN:HE22	1.54	0.54
1:D:859:LEU:HB2	1:D:860:PRO:CD	2.36	0.54
1:D:1472:PHE:CE1	1:D:1474:THR:HG23	2.41	0.54
1:E:251:LEU:CD2	1:E:470:ILE:HD13	2.36	0.54
1:E:640:TRP:HE1	1:E:802:ILE:HG13	1.72	0.54
1:E:726:THR:HG22	1:E:727:ALA:N	2.22	0.54
1:A:660:ASN:C	1:A:753:VAL:HG11	2.28	0.54
1:A:1381:LEU:HB3	1:A:1523:PRO:HB2	1.88	0.54
1:B:654:MET:HE2	1:B:801:LEU:HD22	1.89	0.54
1:B:726:THR:HG22	1:B:727:ALA:N	2.22	0.54
1:B:859:LEU:HD12	1:B:859:LEU:N	2.23	0.54
1:B:1556:THR:HG22	1:B:1567:TYR:HB2	1.89	0.54
1:C:538:LEU:HD13	1:C:588:LEU:HD21	1.88	0.54
1:D:452:LEU:HB3	1:D:456:ILE:HG21	1.90	0.54
1:D:1511:PHE:HB3	1:D:1516:ASP:OD2	2.07	0.54
1:E:877:ILE:O	1:E:880:TRP:HB2	2.07	0.54
1:E:1489:ILE:HG12	1:E:1563:ARG:NH2	2.22	0.54
1:E:1547:ASN:O	1:E:1575:THR:HG23	2.07	0.54
1:A:230:LEU:HD23	1:A:856:HIS:CE1	2.43	0.54
1:A:622:ILE:HG12	1:A:626:GLN:CG	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:714:TRP:CZ3	1:A:776:PHE:CE1	2.95	0.54
1:A:722:ASP:H	1:A:754:GLN:HE22	1.54	0.54
1:A:726:THR:HG22	1:A:727:ALA:N	2.22	0.54
1:A:1556:THR:HG22	1:A:1567:TYR:HB2	1.89	0.54
1:B:330:ILE:CD1	1:B:428:VAL:HG23	2.38	0.54
1:B:1360:ILE:HG22	1:B:1361:HIS:N	2.22	0.54
1:B:1406:PRO:HG3	1:B:1473:MET:CE	2.16	0.54
1:C:1367:GLN:OE1	1:C:1391:LEU:HD12	2.07	0.54
1:C:1489:ILE:HG12	1:C:1563:ARG:NH2	2.22	0.54
1:D:230:LEU:HD23	1:D:856:HIS:CE1	2.43	0.54
1:D:633:LYS:HB2	1:D:633:LYS:NZ	2.21	0.54
1:E:230:LEU:HD23	1:E:856:HIS:CE1	2.43	0.54
1:E:289:SER:O	1:E:293:LEU:HD23	2.07	0.54
1:E:330:ILE:CD1	1:E:428:VAL:HG23	2.38	0.54
1:A:484:TYR:HE1	1:A:631:ILE:HG21	1.73	0.54
1:A:540:SER:HB3	1:A:560:VAL:HA	1.88	0.54
1:A:562:LEU:HD23	1:A:562:LEU:C	2.28	0.54
1:A:849:ALA:HB1	1:A:880:TRP:HB2	1.89	0.54
1:A:859:LEU:N	1:A:859:LEU:HD12	2.23	0.54
1:B:524:LEU:HD22	1:B:549:THR:CG2	2.17	0.54
1:B:562:LEU:O	1:B:565:LEU:HB2	2.06	0.54
1:B:1438:ILE:HG22	1:B:1441:ALA:H	1.72	0.54
1:C:230:LEU:HD23	1:C:856:HIS:CE1	2.43	0.54
1:C:330:ILE:CD1	1:C:428:VAL:HG23	2.38	0.54
1:C:660:ASN:C	1:C:753:VAL:HG11	2.28	0.54
1:C:689:LEU:CD1	1:C:713:LEU:HD21	2.38	0.54
1:C:726:THR:HG22	1:C:727:ALA:N	2.22	0.54
1:C:859:LEU:HD12	1:C:859:LEU:N	2.23	0.54
1:C:1434:VAL:CG2	1:C:1447:ASN:HB3	2.38	0.54
1:D:264:TYR:CE2	1:D:268:PHE:CD2	2.95	0.54
1:D:562:LEU:HD23	1:D:562:LEU:C	2.28	0.54
1:D:563:PHE:CZ	1:D:567:LYS:HE2	2.42	0.54
1:D:1392:GLY:O	1:D:1481:THR:HG23	2.07	0.54
1:D:1438:ILE:HB	1:D:1441:ALA:HB3	1.88	0.54
1:D:1489:ILE:HG12	1:D:1563:ARG:NH2	2.22	0.54
1:E:248:PHE:CE2	1:E:252:THR:HG21	2.43	0.54
1:E:276:LEU:HD23	1:E:437:LEU:CG	2.38	0.54
1:E:714:TRP:CZ3	1:E:776:PHE:CE1	2.95	0.54
1:E:849:ALA:HB1	1:E:880:TRP:HB2	1.89	0.54
1:A:245:PRO:O	1:A:248:PHE:HB3	2.07	0.54
1:A:248:PHE:CE2	1:A:252:THR:HG21	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:276:LEU:HD23	1:A:437:LEU:CG	2.38	0.54
1:A:306:GLN:O	1:A:346:PHE:HE2	1.91	0.54
1:B:633:LYS:HB2	1:B:633:LYS:NZ	2.21	0.54
1:B:780:VAL:HG23	1:B:781:THR:N	2.22	0.54
1:C:289:SER:O	1:C:293:LEU:HD23	2.07	0.54
1:C:452:LEU:HB3	1:C:456:ILE:HG21	1.89	0.54
1:D:877:ILE:O	1:D:880:TRP:HB2	2.07	0.54
1:D:1372:CYS:HA	1:D:1375:MET:CG	2.38	0.54
1:D:1547:ASN:O	1:D:1575:THR:HG23	2.08	0.54
1:E:296:PHE:CD1	1:E:444:ILE:HA	2.42	0.54
1:E:452:LEU:HB3	1:E:456:ILE:HG21	1.89	0.54
1:E:540:SER:HB3	1:E:560:VAL:HA	1.88	0.54
1:E:660:ASN:C	1:E:753:VAL:HG11	2.28	0.54
1:E:859:LEU:HD12	1:E:859:LEU:N	2.23	0.54
1:E:1360:ILE:HG22	1:E:1361:HIS:N	2.22	0.54
1:E:1365:GLU:OE1	1:E:1369:ARG:HG3	2.07	0.54
1:A:330:ILE:CD1	1:A:428:VAL:HG23	2.38	0.54
1:A:363:TYR:CD1	1:A:420:ALA:HB2	2.43	0.54
1:A:1438:ILE:HB	1:A:1441:ALA:HB3	1.89	0.54
1:B:363:TYR:CD1	1:B:420:ALA:HB2	2.43	0.54
1:B:515:PHE:CE1	1:B:519:PHE:CE1	2.96	0.54
1:C:248:PHE:CE2	1:C:252:THR:HG21	2.43	0.54
1:C:363:TYR:CD1	1:C:420:ALA:HB2	2.43	0.54
1:C:633:LYS:HB2	1:C:633:LYS:NZ	2.21	0.54
1:D:296:PHE:CD1	1:D:444:ILE:HA	2.42	0.54
1:D:306:GLN:O	1:D:346:PHE:HE2	1.91	0.54
1:D:1360:ILE:HG22	1:D:1361:HIS:N	2.22	0.54
1:E:1367:GLN:OE1	1:E:1391:LEU:HD12	2.07	0.54
1:A:297:ILE:O	1:A:297:ILE:HG13	2.06	0.54
1:A:503:ILE:N	1:A:582:LEU:HD11	2.21	0.54
1:A:612:VAL:CG1	1:A:614:GLU:HG2	2.38	0.54
1:B:714:TRP:CZ3	1:B:776:PHE:CE1	2.95	0.54
1:B:807:PHE:CD1	1:B:871:TRP:CH2	2.95	0.54
1:B:1341:ASN:O	1:B:1351:ILE:HG13	2.08	0.54
1:C:296:PHE:CD1	1:C:444:ILE:HA	2.42	0.54
1:C:608:LEU:O	1:C:608:LEU:HD13	2.08	0.54
1:C:1547:ASN:O	1:C:1575:THR:HG23	2.07	0.54
1:D:245:PRO:O	1:D:248:PHE:HB3	2.07	0.54
1:D:363:TYR:CD1	1:D:420:ALA:HB2	2.42	0.54
1:D:515:PHE:CE1	1:D:519:PHE:CE1	2.96	0.54
1:D:849:ALA:HB1	1:D:880:TRP:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1438:ILE:HG22	1:D:1441:ALA:H	1.72	0.54
1:E:306:GLN:O	1:E:346:PHE:HE2	1.91	0.54
1:E:498:LEU:HD11	1:E:593:LEU:CD2	2.36	0.54
1:E:598:HIS:CB	1:E:638:THR:HG21	2.37	0.54
1:E:689:LEU:CD1	1:E:713:LEU:HD21	2.38	0.54
1:E:722:ASP:H	1:E:754:GLN:HE22	1.54	0.54
1:E:1372:CYS:HA	1:E:1375:MET:CG	2.38	0.54
1:A:633:LYS:HB2	1:A:633:LYS:NZ	2.21	0.54
1:A:1360:ILE:HG22	1:A:1361:HIS:N	2.22	0.54
1:A:1547:ASN:O	1:A:1575:THR:HG23	2.07	0.54
1:B:276:LEU:HD23	1:B:437:LEU:CG	2.38	0.54
1:B:514:GLN:HA	1:B:517:ARG:HE	1.73	0.54
1:C:488:TYR:CE1	1:C:597:ILE:HB	2.43	0.54
1:C:562:LEU:HD23	1:C:562:LEU:C	2.28	0.54
1:C:1341:ASN:O	1:C:1351:ILE:HG13	2.08	0.54
1:D:276:LEU:HD23	1:D:437:LEU:CG	2.38	0.54
1:D:654:MET:HE1	1:D:801:LEU:HD22	1.89	0.54
1:E:515:PHE:CE1	1:E:519:PHE:CE1	2.96	0.54
1:E:557:ILE:HD12	1:E:565:LEU:HD11	1.88	0.54
1:E:1438:ILE:HB	1:E:1441:ALA:HB3	1.88	0.54
1:A:1341:ASN:O	1:A:1351:ILE:HG13	2.08	0.54
1:A:1392:GLY:O	1:A:1481:THR:HG23	2.07	0.54
1:A:1511:PHE:HB3	1:A:1516:ASP:OD2	2.07	0.54
1:B:297:ILE:HG13	1:B:297:ILE:O	2.06	0.54
1:B:488:TYR:CE1	1:B:597:ILE:HB	2.43	0.54
1:C:540:SER:HB3	1:C:560:VAL:HA	1.88	0.54
1:C:594:LEU:HD11	1:C:634:LEU:CD1	2.38	0.54
1:C:722:ASP:H	1:C:754:GLN:HE22	1.54	0.54
1:D:755:TYR:O	1:D:759:LEU:HD13	2.08	0.54
1:D:807:PHE:CD1	1:D:871:TRP:CH2	2.95	0.54
1:D:859:LEU:N	1:D:859:LEU:HD12	2.23	0.54
1:A:515:PHE:CE1	1:A:519:PHE:CE1	2.96	0.54
1:A:877:ILE:O	1:A:880:TRP:HB2	2.07	0.54
1:B:251:LEU:CD2	1:B:470:ILE:HD13	2.37	0.54
1:B:289:SER:O	1:B:293:LEU:HD23	2.07	0.54
1:B:296:PHE:CD1	1:B:444:ILE:HA	2.42	0.54
1:B:306:GLN:O	1:B:346:PHE:HE2	1.91	0.54
1:B:623:SER:HB2	1:B:626:GLN:CG	2.26	0.54
1:B:689:LEU:CD1	1:B:713:LEU:HD21	2.38	0.54
1:B:1392:GLY:O	1:B:1481:THR:HG23	2.07	0.54
1:B:1434:VAL:CG2	1:B:1447:ASN:HB3	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:297:ILE:O	1:C:297:ILE:HG13	2.06	0.54
1:C:515:PHE:CE1	1:C:519:PHE:CE1	2.96	0.54
1:D:462:ARG:NH2	1:D:506:ARG:HH12	2.06	0.54
1:D:484:TYR:HE1	1:D:631:ILE:HG21	1.73	0.54
1:D:660:ASN:C	1:D:753:VAL:HG11	2.28	0.54
1:D:1498:VAL:CG2	1:D:1557:ALA:HB2	2.37	0.54
1:E:667:ILE:O	1:E:671:LEU:HD13	2.08	0.54
1:A:557:ILE:HD12	1:A:565:LEU:HD11	1.88	0.53
1:A:667:ILE:O	1:A:671:LEU:HD13	2.08	0.53
1:A:726:THR:HG22	1:A:728:GLU:H	1.71	0.53
1:B:452:LEU:HB3	1:B:456:ILE:HG21	1.89	0.53
1:B:460:ILE:O	1:B:464:VAL:HG13	2.08	0.53
1:B:594:LEU:HD11	1:B:634:LEU:CD1	2.38	0.53
1:C:251:LEU:O	1:C:251:LEU:HD13	2.08	0.53
1:C:484:TYR:HE1	1:C:631:ILE:HG21	1.73	0.53
1:C:514:GLN:HA	1:C:517:ARG:HE	1.73	0.53
1:D:557:ILE:HG22	1:D:558:ASP:N	2.24	0.53
1:D:689:LEU:CD1	1:D:713:LEU:HD21	2.38	0.53
1:D:1434:VAL:CG2	1:D:1447:ASN:HB3	2.38	0.53
1:E:340:GLN:CG	1:E:361:ASN:HB2	2.29	0.53
1:E:562:LEU:HD23	1:E:562:LEU:C	2.28	0.53
1:E:714:TRP:HE3	1:E:762:LEU:HD11	1.69	0.53
1:A:341:MET:HB2	1:A:422:ALA:HB1	1.91	0.53
1:A:514:GLN:HA	1:A:517:ARG:HE	1.73	0.53
1:A:1372:CYS:HA	1:A:1375:MET:CG	2.38	0.53
1:B:341:MET:HB2	1:B:422:ALA:HB1	1.91	0.53
1:B:1547:ASN:O	1:B:1575:THR:HG23	2.08	0.53
1:C:343:VAL:HG21	1:C:410:LEU:HD11	1.91	0.53
1:D:273:PRO:HG2	1:D:433:GLN:CG	2.24	0.53
1:D:488:TYR:CE1	1:D:597:ILE:HB	2.43	0.53
1:D:538:LEU:CD1	1:D:588:LEU:HD21	2.39	0.53
1:D:1404:PHE:CE1	1:D:1426:ARG:HD3	2.38	0.53
1:D:1500:ILE:HD12	1:D:1532:PHE:CD2	2.44	0.53
1:A:306:GLN:OE1	1:A:315:THR:HA	2.08	0.53
1:A:524:LEU:CD1	1:A:550:ILE:HD13	2.38	0.53
1:A:608:LEU:O	1:A:608:LEU:HD13	2.08	0.53
1:A:1542:LEU:HD22	1:A:1549:ALA:CB	2.38	0.53
1:B:248:PHE:CE2	1:B:252:THR:HG21	2.43	0.53
1:B:251:LEU:O	1:B:251:LEU:HD13	2.09	0.53
1:B:1372:CYS:HA	1:B:1375:MET:CG	2.38	0.53
1:C:276:LEU:HD23	1:C:437:LEU:CG	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:524:LEU:CD1	1:C:550:ILE:HD13	2.38	0.53
1:C:755:TYR:O	1:C:759:LEU:HD13	2.08	0.53
1:C:852:GLN:HB3	1:C:880:TRP:CE2	2.43	0.53
1:C:1556:THR:HG22	1:C:1567:TYR:HB2	1.89	0.53
1:D:251:LEU:O	1:D:251:LEU:HD13	2.09	0.53
1:D:330:ILE:CD1	1:D:428:VAL:HG23	2.38	0.53
1:D:594:LEU:HD11	1:D:634:LEU:CD1	2.38	0.53
1:D:832:ALA:CB	1:D:868:PHE:CE1	2.92	0.53
1:E:594:LEU:HD11	1:E:634:LEU:CD1	2.38	0.53
1:E:608:LEU:O	1:E:608:LEU:HD13	2.08	0.53
1:E:1500:ILE:HD12	1:E:1532:PHE:CD2	2.44	0.53
1:A:1434:VAL:CG2	1:A:1447:ASN:HB3	2.38	0.53
1:B:230:LEU:HD23	1:B:856:HIS:CE1	2.43	0.53
1:B:343:VAL:HG21	1:B:410:LEU:HD11	1.90	0.53
1:B:612:VAL:CG1	1:B:614:GLU:HG2	2.38	0.53
1:B:852:GLN:HB3	1:B:880:TRP:CE2	2.43	0.53
1:B:1365:GLU:OE1	1:B:1369:ARG:HG3	2.07	0.53
1:C:612:VAL:CG1	1:C:614:GLU:HG2	2.38	0.53
1:D:248:PHE:CE2	1:D:252:THR:HG21	2.43	0.53
1:D:514:GLN:HA	1:D:517:ARG:HE	1.73	0.53
1:E:273:PRO:CB	1:E:433:GLN:HB2	2.21	0.53
1:E:363:TYR:CD1	1:E:420:ALA:HB2	2.43	0.53
1:E:524:LEU:CD1	1:E:550:ILE:HD13	2.38	0.53
1:A:251:LEU:HD13	1:A:251:LEU:O	2.09	0.53
1:C:341:MET:HB2	1:C:422:ALA:HB1	1.91	0.53
1:C:577:LYS:HD2	1:C:577:LYS:C	2.29	0.53
1:C:832:ALA:CB	1:C:868:PHE:CE1	2.92	0.53
1:C:849:ALA:HB1	1:C:880:TRP:HB2	1.89	0.53
1:D:503:ILE:N	1:D:582:LEU:HD11	2.21	0.53
1:E:341:MET:HB2	1:E:422:ALA:HB1	1.91	0.53
1:E:557:ILE:HG22	1:E:558:ASP:N	2.23	0.53
1:E:755:TYR:O	1:E:759:LEU:HD13	2.08	0.53
1:E:1556:THR:HG22	1:E:1567:TYR:HB2	1.89	0.53
1:A:289:SER:O	1:A:293:LEU:HD23	2.07	0.53
1:A:442:LYS:HD3	1:A:470:ILE:HD12	1.91	0.53
1:A:482:LYS:HA	1:A:485:MET:HE2	1.91	0.53
1:A:852:GLN:HB3	1:A:880:TRP:CE2	2.43	0.53
1:B:273:PRO:CB	1:B:433:GLN:HB2	2.21	0.53
1:B:306:GLN:OE1	1:B:315:THR:HA	2.08	0.53
1:B:540:SER:HB3	1:B:560:VAL:HA	1.88	0.53
1:B:557:ILE:HG22	1:B:558:ASP:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:660:ASN:C	1:B:753:VAL:HG11	2.28	0.53
1:B:849:ALA:HB1	1:B:880:TRP:HB2	1.89	0.53
1:C:1365:GLU:OE1	1:C:1369:ARG:HG3	2.07	0.53
1:D:462:ARG:HG2	1:D:506:ARG:NH2	2.24	0.53
1:D:612:VAL:CG1	1:D:614:GLU:HG2	2.38	0.53
1:E:514:GLN:HA	1:E:517:ARG:HE	1.73	0.53
1:E:633:LYS:HB2	1:E:633:LYS:NZ	2.22	0.53
1:E:1341:ASN:O	1:E:1351:ILE:HG13	2.08	0.53
1:E:1434:VAL:CG2	1:E:1447:ASN:HB3	2.38	0.53
1:A:460:ILE:O	1:A:464:VAL:HG13	2.08	0.53
1:A:689:LEU:CD1	1:A:713:LEU:HD21	2.38	0.53
1:B:552:LYS:HD3	1:B:559:ASP:OD1	2.09	0.53
1:B:1500:ILE:HD12	1:B:1532:PHE:CD2	2.44	0.53
1:C:538:LEU:CD1	1:C:588:LEU:HD21	2.39	0.53
1:C:557:ILE:HG22	1:C:558:ASP:N	2.23	0.53
1:C:1372:CYS:HA	1:C:1375:MET:CG	2.38	0.53
1:D:289:SER:O	1:D:293:LEU:HD23	2.07	0.53
1:D:414:LEU:CD1	1:D:417:GLY:H	2.22	0.53
1:E:442:LYS:HD3	1:E:470:ILE:HD12	1.91	0.53
1:E:552:LYS:HD3	1:E:559:ASP:OD1	2.09	0.53
1:E:807:PHE:CD1	1:E:871:TRP:CH2	2.95	0.53
1:A:251:LEU:HD13	1:A:251:LEU:C	2.29	0.53
1:A:440:LEU:HD13	1:A:444:ILE:HG13	1.91	0.53
1:A:598:HIS:CB	1:A:600:LEU:HD13	2.35	0.53
1:A:717:LYS:CB	1:A:794:PRO:HG3	2.39	0.53
1:A:755:TYR:O	1:A:759:LEU:HD13	2.08	0.53
1:A:847:LEU:HD22	1:A:868:PHE:HZ	1.74	0.53
1:A:1438:ILE:HG22	1:A:1441:ALA:H	1.72	0.53
1:A:1500:ILE:HD12	1:A:1532:PHE:CD2	2.44	0.53
1:B:251:LEU:HD13	1:B:251:LEU:C	2.29	0.53
1:B:667:ILE:O	1:B:671:LEU:HD13	2.08	0.53
1:C:306:GLN:O	1:C:346:PHE:HE2	1.91	0.53
1:D:605:LEU:HD13	1:D:605:LEU:C	2.29	0.53
1:D:608:LEU:O	1:D:608:LEU:HD13	2.08	0.53
1:E:538:LEU:CD1	1:E:588:LEU:HD21	2.39	0.53
1:E:832:ALA:CB	1:E:868:PHE:CE1	2.92	0.53
1:E:847:LEU:HD22	1:E:868:PHE:HZ	1.74	0.53
1:E:1542:LEU:HD22	1:E:1549:ALA:CB	2.38	0.53
1:A:462:ARG:HG2	1:A:506:ARG:NH2	2.24	0.53
1:A:538:LEU:CD1	1:A:588:LEU:HD21	2.39	0.53
1:A:784:GLU:HG2	1:A:790:THR:CG2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:538:LEU:CD1	1:B:588:LEU:HD21	2.39	0.53
1:C:462:ARG:HG2	1:C:506:ARG:NH2	2.24	0.53
1:C:1407:VAL:CG1	1:C:1423:LEU:HB2	2.39	0.53
1:C:1500:ILE:HD11	1:C:1532:PHE:CZ	2.44	0.53
1:C:1542:LEU:HD22	1:C:1549:ALA:CB	2.38	0.53
1:D:733:TRP:HE3	1:D:734:LEU:HD23	1.72	0.53
1:D:847:LEU:HD22	1:D:868:PHE:HZ	1.74	0.53
1:D:1341:ASN:O	1:D:1351:ILE:HG13	2.08	0.53
1:E:577:LYS:HD2	1:E:577:LYS:C	2.29	0.53
1:E:1438:ILE:HG22	1:E:1441:ALA:H	1.72	0.53
1:A:594:LEU:HD11	1:A:634:LEU:CD1	2.38	0.53
1:B:462:ARG:HG2	1:B:506:ARG:NH2	2.24	0.53
1:B:1542:LEU:HD22	1:B:1549:ALA:CB	2.38	0.53
1:C:460:ILE:O	1:C:464:VAL:HG13	2.09	0.53
1:C:524:LEU:HG	1:C:550:ILE:HD13	1.91	0.53
1:C:557:ILE:HD11	1:C:592:LYS:CE	2.39	0.53
1:C:780:VAL:HG23	1:C:781:THR:N	2.22	0.53
1:D:341:MET:HB2	1:D:422:ALA:HB1	1.91	0.53
1:D:835:LEU:CD2	1:D:839:MET:HG3	2.39	0.53
1:D:1556:THR:HG22	1:D:1567:TYR:HB2	1.89	0.53
1:E:251:LEU:C	1:E:251:LEU:HD13	2.29	0.53
1:E:503:ILE:HG21	1:E:515:PHE:HD1	1.74	0.53
1:E:524:LEU:HG	1:E:550:ILE:HD13	1.91	0.53
1:E:718:LEU:CD1	1:E:762:LEU:HD23	2.39	0.53
1:A:1438:ILE:HD11	1:A:1467:LEU:CD2	2.39	0.52
1:B:462:ARG:NH2	1:B:506:ARG:HH12	2.06	0.52
1:B:717:LYS:CB	1:B:794:PRO:HG3	2.38	0.52
1:B:718:LEU:CD1	1:B:762:LEU:HD23	2.40	0.52
1:B:755:TYR:O	1:B:759:LEU:HD13	2.08	0.52
1:C:807:PHE:CD1	1:C:871:TRP:CH2	2.95	0.52
1:C:1500:ILE:HD12	1:C:1532:PHE:CD2	2.44	0.52
1:D:524:LEU:HG	1:D:550:ILE:HD13	1.91	0.52
1:D:667:ILE:O	1:D:671:LEU:HD13	2.08	0.52
1:E:306:GLN:OE1	1:E:315:THR:HA	2.08	0.52
1:E:488:TYR:CE1	1:E:597:ILE:HB	2.43	0.52
1:A:343:VAL:HG21	1:A:410:LEU:HD11	1.90	0.52
1:A:524:LEU:HG	1:A:550:ILE:HD13	1.91	0.52
1:A:835:LEU:CD2	1:A:839:MET:HG3	2.39	0.52
1:A:842:ASP:OD1	1:A:845:LEU:HB2	2.10	0.52
1:B:440:LEU:HD13	1:B:444:ILE:HG13	1.91	0.52
1:B:524:LEU:CD1	1:B:550:ILE:HD13	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:784:GLU:HG2	1:B:790:THR:CG2	2.39	0.52
1:B:847:LEU:HD22	1:B:868:PHE:HZ	1.74	0.52
1:D:440:LEU:HD13	1:D:444:ILE:HG13	1.91	0.52
1:D:524:LEU:CD1	1:D:550:ILE:HD13	2.38	0.52
1:D:598:HIS:CB	1:D:600:LEU:HD13	2.35	0.52
1:D:850:SER:OG	1:D:877:ILE:HD13	2.10	0.52
1:D:852:GLN:HB3	1:D:880:TRP:CE2	2.43	0.52
1:D:1312:ILE:HD12	1:D:1574:VAL:CA	2.33	0.52
1:D:1386:ILE:CD1	1:D:1468:LYS:HE3	2.34	0.52
1:E:414:LEU:CD1	1:E:417:GLY:H	2.22	0.52
1:E:440:LEU:HD13	1:E:444:ILE:HG13	1.91	0.52
1:E:835:LEU:CD2	1:E:839:MET:HG3	2.39	0.52
1:A:462:ARG:NH2	1:A:506:ARG:HH12	2.06	0.52
1:A:832:ALA:CB	1:A:868:PHE:CE1	2.92	0.52
1:A:1498:VAL:HG23	1:A:1557:ALA:CA	2.39	0.52
1:B:524:LEU:HG	1:B:550:ILE:HD13	1.91	0.52
1:B:832:ALA:CB	1:B:868:PHE:CE1	2.92	0.52
1:B:1498:VAL:HG23	1:B:1557:ALA:CA	2.39	0.52
1:C:442:LYS:HD3	1:C:470:ILE:HD12	1.91	0.52
1:C:667:ILE:O	1:C:671:LEU:HD13	2.08	0.52
1:C:717:LYS:CB	1:C:794:PRO:HG3	2.38	0.52
1:C:835:LEU:CD2	1:C:839:MET:HG3	2.39	0.52
1:C:1500:ILE:C	1:C:1501:ILE:HD12	2.30	0.52
1:D:226:ALA:HB3	1:D:879:GLN:CD	2.30	0.52
1:D:251:LEU:HD13	1:D:251:LEU:C	2.29	0.52
1:D:255:ILE:CD1	1:D:442:LYS:HZ1	2.22	0.52
1:D:536:ILE:HB	1:D:578:ILE:HG13	1.90	0.52
1:D:1500:ILE:C	1:D:1501:ILE:HD12	2.30	0.52
1:E:612:VAL:CG1	1:E:614:GLU:HG2	2.38	0.52
1:E:852:GLN:HB3	1:E:880:TRP:CE2	2.43	0.52
1:A:850:SER:OG	1:A:877:ILE:HD13	2.09	0.52
1:B:701:GLN:CD	1:B:701:GLN:H	2.13	0.52
1:B:1327:TYR:HB2	1:B:1329:LEU:HG	1.91	0.52
1:C:226:ALA:HB3	1:C:879:GLN:CD	2.30	0.52
1:C:306:GLN:OE1	1:C:315:THR:HA	2.08	0.52
1:C:718:LEU:CD1	1:C:762:LEU:HD23	2.39	0.52
1:C:1438:ILE:HD11	1:C:1467:LEU:CD2	2.39	0.52
1:D:306:GLN:OE1	1:D:315:THR:HA	2.08	0.52
1:D:1542:LEU:HD22	1:D:1549:ALA:CB	2.38	0.52
1:E:460:ILE:O	1:E:464:VAL:HG13	2.08	0.52
1:E:462:ARG:HG2	1:E:506:ARG:NH2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:484:TYR:HE1	1:E:631:ILE:HG21	1.73	0.52
1:E:1327:TYR:O	1:E:1328:TYR:HB2	2.10	0.52
1:A:296:PHE:CD1	1:A:444:ILE:HA	2.42	0.52
1:A:488:TYR:CE1	1:A:597:ILE:HB	2.43	0.52
1:A:518:LEU:HD23	1:A:519:PHE:CE1	2.45	0.52
1:B:251:LEU:CD2	1:B:470:ILE:HG21	2.22	0.52
1:B:288:LEU:HB2	1:B:293:LEU:HD21	1.92	0.52
1:B:518:LEU:HD23	1:B:519:PHE:CE1	2.45	0.52
1:B:608:LEU:O	1:B:608:LEU:HD13	2.08	0.52
1:B:1428:THR:CG2	1:B:1430:TYR:CE2	2.93	0.52
1:C:414:LEU:CD1	1:C:417:GLY:H	2.22	0.52
1:C:847:LEU:HD22	1:C:868:PHE:HZ	1.74	0.52
1:C:1327:TYR:HB2	1:C:1329:LEU:HG	1.91	0.52
1:D:343:VAL:HG21	1:D:410:LEU:HD11	1.90	0.52
1:D:363:TYR:CE2	1:D:414:LEU:HD23	2.45	0.52
1:D:577:LYS:HD2	1:D:577:LYS:C	2.29	0.52
1:D:1441:ALA:CB	1:D:1443:ARG:HG2	2.40	0.52
1:E:226:ALA:HB3	1:E:879:GLN:CD	2.30	0.52
1:E:1406:PRO:HG3	1:E:1483:VAL:HG11	1.92	0.52
1:E:1438:ILE:HD11	1:E:1467:LEU:CD2	2.39	0.52
1:E:1441:ALA:CB	1:E:1443:ARG:HG2	2.39	0.52
1:A:337:ASN:C	1:A:339:TYR:H	2.13	0.52
1:A:340:GLN:CG	1:A:361:ASN:HB2	2.29	0.52
1:A:503:ILE:HG21	1:A:515:PHE:HD1	1.74	0.52
1:A:571:HIS:ND1	1:A:618:ASN:HB3	2.25	0.52
1:A:577:LYS:HD2	1:A:577:LYS:C	2.29	0.52
1:A:1406:PRO:HG3	1:A:1483:VAL:HG11	1.92	0.52
1:A:1428:THR:CG2	1:A:1430:TYR:CE2	2.93	0.52
1:B:442:LYS:HD3	1:B:470:ILE:HD12	1.91	0.52
1:B:571:HIS:ND1	1:B:618:ASN:HB3	2.25	0.52
1:B:1406:PRO:HG3	1:B:1483:VAL:HG11	1.92	0.52
1:B:1438:ILE:HD11	1:B:1467:LEU:CD2	2.39	0.52
1:C:518:LEU:HD23	1:C:519:PHE:CE1	2.45	0.52
1:D:288:LEU:HB2	1:D:293:LEU:HD21	1.92	0.52
1:D:460:ILE:O	1:D:464:VAL:HG13	2.08	0.52
1:D:784:GLU:HG2	1:D:790:THR:OG1	2.10	0.52
1:E:230:LEU:HG	1:E:856:HIS:HB3	1.86	0.52
1:E:462:ARG:NH2	1:E:506:ARG:HH12	2.06	0.52
1:E:701:GLN:CD	1:E:701:GLN:H	2.13	0.52
1:E:717:LYS:CB	1:E:794:PRO:HG3	2.38	0.52
1:E:784:GLU:HG2	1:E:790:THR:OG1	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:288:LEU:HB2	1:A:293:LEU:HD21	1.92	0.52
1:A:363:TYR:CE2	1:A:414:LEU:HD23	2.45	0.52
1:A:605:LEU:HD13	1:A:605:LEU:C	2.29	0.52
1:B:484:TYR:HE1	1:B:631:ILE:HG21	1.73	0.52
1:B:784:GLU:HG2	1:B:790:THR:OG1	2.10	0.52
1:B:1500:ILE:HD11	1:B:1532:PHE:CZ	2.44	0.52
1:B:1537:ILE:HG22	1:B:1538:ASP:N	2.25	0.52
1:C:288:LEU:HB2	1:C:293:LEU:HD21	1.92	0.52
1:C:340:GLN:CG	1:C:361:ASN:HB2	2.29	0.52
1:C:363:TYR:CE2	1:C:414:LEU:HD23	2.45	0.52
1:C:605:LEU:HD13	1:C:605:LEU:C	2.29	0.52
1:C:653:ILE:CD1	1:C:764:MET:HE1	2.40	0.52
1:C:693:ALA:HB3	1:C:694:PRO:CD	2.40	0.52
1:C:733:TRP:HE3	1:C:734:LEU:HD23	1.72	0.52
1:D:717:LYS:CB	1:D:794:PRO:HG3	2.39	0.52
1:D:1407:VAL:CG1	1:D:1423:LEU:HB2	2.39	0.52
1:E:1312:ILE:HD12	1:E:1574:VAL:CA	2.33	0.52
1:E:1407:VAL:CG1	1:E:1423:LEU:HB2	2.39	0.52
1:A:226:ALA:HB3	1:A:879:GLN:CD	2.30	0.52
1:A:552:LYS:HD3	1:A:559:ASP:OD1	2.09	0.52
1:A:557:ILE:HG22	1:A:558:ASP:N	2.24	0.52
1:B:733:TRP:HE3	1:B:734:LEU:HD23	1.72	0.52
1:B:835:LEU:CD2	1:B:839:MET:HG3	2.39	0.52
1:C:251:LEU:HD13	1:C:251:LEU:C	2.29	0.52
1:C:1498:VAL:HG23	1:C:1557:ALA:CA	2.39	0.52
1:D:552:LYS:HD3	1:D:559:ASP:OD1	2.09	0.52
1:D:693:ALA:HB3	1:D:694:PRO:CD	2.40	0.52
1:E:1500:ILE:HD11	1:E:1532:PHE:CZ	2.45	0.52
1:A:653:ILE:HD11	1:A:764:MET:HE1	1.91	0.52
1:A:1327:TYR:HB2	1:A:1329:LEU:HG	1.91	0.52
1:A:1500:ILE:HD11	1:A:1532:PHE:CZ	2.45	0.52
1:B:363:TYR:CE2	1:B:414:LEU:HD23	2.45	0.52
1:B:577:LYS:HD2	1:B:577:LYS:C	2.29	0.52
1:B:850:SER:OG	1:B:877:ILE:HD13	2.10	0.52
1:B:1327:TYR:O	1:B:1328:TYR:HB2	2.10	0.52
1:B:1500:ILE:C	1:B:1501:ILE:HD12	2.30	0.52
1:C:536:ILE:HB	1:C:578:ILE:HG13	1.90	0.52
1:C:784:GLU:HG2	1:C:790:THR:OG1	2.10	0.52
1:D:503:ILE:HG21	1:D:515:PHE:HD1	1.74	0.52
1:D:1438:ILE:HD11	1:D:1467:LEU:CD2	2.39	0.52
1:E:1420:GLY:HA3	1:E:1462:ASN:HD21	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1498:VAL:CG2	1:E:1557:ALA:HB2	2.37	0.52
1:E:1500:ILE:C	1:E:1501:ILE:HD12	2.30	0.52
1:A:693:ALA:HB3	1:A:694:PRO:CD	2.40	0.52
1:A:763:GLU:HG2	1:A:767:HIS:CD2	2.45	0.52
1:B:337:ASN:C	1:B:339:TYR:H	2.13	0.52
1:B:605:LEU:HD13	1:B:605:LEU:C	2.29	0.52
1:B:842:ASP:OD1	1:B:845:LEU:HB2	2.09	0.52
1:C:341:MET:HE2	1:C:422:ALA:CB	2.33	0.52
1:C:663:LEU:HD12	1:C:668:LYS:HE2	1.92	0.52
1:D:557:ILE:HD11	1:D:592:LYS:CE	2.39	0.52
1:D:1500:ILE:HD11	1:D:1532:PHE:CZ	2.45	0.52
1:E:251:LEU:HD13	1:E:251:LEU:O	2.09	0.52
1:E:288:LEU:HB2	1:E:293:LEU:HD21	1.92	0.52
1:E:763:GLU:HG2	1:E:767:HIS:CD2	2.45	0.52
1:E:842:ASP:OD1	1:E:845:LEU:HB2	2.09	0.52
1:A:659:TYR:CE1	1:A:758:ALA:CA	2.94	0.51
1:B:1407:VAL:CG1	1:B:1423:LEU:HB2	2.39	0.51
1:C:462:ARG:NH2	1:C:506:ARG:HH12	2.06	0.51
1:C:850:SER:OG	1:C:877:ILE:HD13	2.10	0.51
1:C:1327:TYR:HE2	1:C:1563:ARG:HB3	1.74	0.51
1:D:296:PHE:CE1	1:D:454:PRO:HG3	2.46	0.51
1:D:1327:TYR:HB2	1:D:1329:LEU:HG	1.91	0.51
1:D:1408:TYR:CD1	1:D:1467:LEU:CD1	2.93	0.51
1:E:343:VAL:HG21	1:E:410:LEU:HD11	1.90	0.51
1:E:518:LEU:HD23	1:E:519:PHE:CE1	2.45	0.51
1:E:605:LEU:HD13	1:E:605:LEU:C	2.29	0.51
1:E:693:ALA:HB3	1:E:694:PRO:CD	2.40	0.51
1:E:1327:TYR:HB2	1:E:1329:LEU:HG	1.91	0.51
1:E:1498:VAL:HG23	1:E:1557:ALA:CA	2.39	0.51
1:A:297:ILE:HG22	1:A:440:LEU:CD2	2.39	0.51
1:A:622:ILE:CG2	1:A:627:LEU:HG	2.41	0.51
1:A:657:THR:HA	1:A:659:TYR:CZ	2.46	0.51
1:B:498:LEU:CD1	1:B:593:LEU:HD23	2.38	0.51
1:B:610:ILE:HG22	1:B:615:GLY:O	2.11	0.51
1:C:622:ILE:CG2	1:C:627:LEU:HG	2.41	0.51
1:C:882:ASN:O	1:C:886:GLN:HG2	2.10	0.51
1:C:1428:THR:CG2	1:C:1430:TYR:CE2	2.93	0.51
1:D:659:TYR:CE1	1:D:758:ALA:CA	2.93	0.51
1:D:663:LEU:HD12	1:D:668:LYS:HE2	1.92	0.51
1:E:363:TYR:CE2	1:E:414:LEU:HD23	2.45	0.51
1:E:657:THR:HA	1:E:659:TYR:CZ	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1340:ILE:HG13	1:E:1353:ILE:HD12	1.93	0.51
1:A:557:ILE:HD11	1:A:592:LYS:CE	2.39	0.51
1:A:718:LEU:CD1	1:A:762:LEU:HD23	2.40	0.51
1:A:825:PHE:CZ	1:A:871:TRP:HB2	2.46	0.51
1:B:557:ILE:HD11	1:B:592:LYS:CE	2.39	0.51
1:C:513:SER:O	1:C:517:ARG:HG2	2.10	0.51
1:C:552:LYS:HD3	1:C:559:ASP:OD1	2.09	0.51
1:C:657:THR:HA	1:C:659:TYR:CZ	2.46	0.51
1:C:1327:TYR:O	1:C:1328:TYR:HB2	2.10	0.51
1:D:498:LEU:HD11	1:D:593:LEU:CD2	2.36	0.51
1:D:657:THR:HA	1:D:659:TYR:CZ	2.46	0.51
1:E:610:ILE:HG22	1:E:615:GLY:O	2.11	0.51
1:E:663:LEU:O	1:E:663:LEU:HG	2.10	0.51
1:A:807:PHE:CD1	1:A:871:TRP:CH2	2.95	0.51
1:A:1441:ALA:CB	1:A:1443:ARG:HG2	2.39	0.51
1:B:513:SER:O	1:B:517:ARG:HG2	2.11	0.51
1:B:1441:ALA:CB	1:B:1443:ARG:HG2	2.39	0.51
1:C:597:ILE:HG13	1:C:598:HIS:N	2.26	0.51
1:C:663:LEU:HG	1:C:663:LEU:O	2.10	0.51
1:C:1406:PRO:HG3	1:C:1483:VAL:HG11	1.92	0.51
1:C:1452:ILE:HD12	1:C:1452:ILE:H	1.76	0.51
1:D:571:HIS:ND1	1:D:618:ASN:HB3	2.25	0.51
1:D:718:LEU:CD1	1:D:762:LEU:HD23	2.40	0.51
1:D:842:ASP:OD1	1:D:845:LEU:HB2	2.10	0.51
1:D:1420:GLY:HA3	1:D:1462:ASN:HD21	1.75	0.51
1:E:280:GLU:HG3	1:E:281:TYR:N	2.25	0.51
1:E:557:ILE:HD11	1:E:592:LYS:CE	2.39	0.51
1:E:1400:ASN:O	1:E:1402:LEU:HD23	2.11	0.51
1:A:296:PHE:CE1	1:A:454:PRO:HG3	2.46	0.51
1:A:310:ASN:ND2	1:A:455:THR:HA	2.25	0.51
1:A:341:MET:HE2	1:A:422:ALA:CB	2.31	0.51
1:A:784:GLU:HG2	1:A:790:THR:OG1	2.10	0.51
1:A:1395:PRO:O	1:A:1396:ASN:HB2	2.11	0.51
1:A:1407:VAL:CG1	1:A:1423:LEU:HB2	2.39	0.51
1:B:226:ALA:HB3	1:B:879:GLN:CD	2.30	0.51
1:B:657:THR:HA	1:B:659:TYR:CZ	2.45	0.51
1:B:763:GLU:HG2	1:B:767:HIS:CD2	2.45	0.51
1:C:484:TYR:O	1:C:488:TYR:HD2	1.94	0.51
1:C:763:GLU:HG2	1:C:767:HIS:CD2	2.45	0.51
1:C:842:ASP:OD1	1:C:845:LEU:HB2	2.10	0.51
1:C:1326:ASP:CG	1:C:1564:LYS:HB3	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:442:LYS:HD3	1:D:470:ILE:HD12	1.91	0.51
1:D:518:LEU:HD23	1:D:519:PHE:CE1	2.45	0.51
1:D:1326:ASP:CG	1:D:1564:LYS:HB3	2.31	0.51
1:D:1428:THR:CG2	1:D:1430:TYR:CE2	2.93	0.51
1:E:296:PHE:CE1	1:E:454:PRO:HG3	2.46	0.51
1:E:850:SER:OG	1:E:877:ILE:HD13	2.10	0.51
1:E:1319:ARG:HD2	1:E:1322:TYR:HB3	1.93	0.51
1:E:1428:THR:CG2	1:E:1430:TYR:CE2	2.93	0.51
1:E:1563:ARG:H	1:E:1563:ARG:HD2	1.75	0.51
1:A:414:LEU:CD1	1:A:417:GLY:H	2.22	0.51
1:A:497:ILE:HG21	1:A:589:TYR:CD2	2.46	0.51
1:A:663:LEU:HG	1:A:663:LEU:O	2.10	0.51
1:A:1500:ILE:C	1:A:1501:ILE:HD12	2.30	0.51
1:B:310:ASN:ND2	1:B:455:THR:HA	2.26	0.51
1:B:414:LEU:CD1	1:B:417:GLY:H	2.22	0.51
1:B:497:ILE:HG21	1:B:589:TYR:CD2	2.46	0.51
1:B:622:ILE:CG2	1:B:627:LEU:HG	2.41	0.51
1:B:663:LEU:HD23	1:B:663:LEU:N	2.23	0.51
1:B:882:ASN:O	1:B:886:GLN:HG2	2.10	0.51
1:B:1563:ARG:H	1:B:1563:ARG:HD2	1.75	0.51
1:C:440:LEU:HD13	1:C:444:ILE:HG13	1.91	0.51
1:C:455:THR:HG21	1:C:508:TYR:CD1	2.46	0.51
1:C:799:LEU:HD13	1:C:799:LEU:C	2.31	0.51
1:C:1420:GLY:HA3	1:C:1462:ASN:HD21	1.75	0.51
1:D:337:ASN:C	1:D:339:TYR:H	2.13	0.51
1:D:701:GLN:H	1:D:701:GLN:CD	2.13	0.51
1:D:1319:ARG:HD2	1:D:1322:TYR:HB3	1.93	0.51
1:E:563:PHE:CE1	1:E:567:LYS:HE2	2.45	0.51
1:E:1387:VAL:O	1:E:1487:VAL:HG22	2.11	0.51
1:A:659:TYR:CA	1:A:757:GLN:HB2	2.40	0.51
1:A:701:GLN:H	1:A:701:GLN:CD	2.13	0.51
1:A:882:ASN:O	1:A:886:GLN:HG2	2.10	0.51
1:A:1375:MET:CE	1:A:1525:PHE:HE1	2.24	0.51
1:B:455:THR:HG21	1:B:508:TYR:CD1	2.46	0.51
1:B:598:HIS:CB	1:B:600:LEU:HD13	2.35	0.51
1:B:663:LEU:O	1:B:663:LEU:HG	2.10	0.51
1:B:799:LEU:HD13	1:B:799:LEU:C	2.31	0.51
1:B:849:ALA:HB1	1:B:877:ILE:O	2.11	0.51
1:B:1375:MET:CE	1:B:1525:PHE:HE1	2.24	0.51
1:B:1408:TYR:CD1	1:B:1467:LEU:CD1	2.93	0.51
1:B:1408:TYR:CE1	1:B:1467:LEU:HD12	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:557:ILE:HD12	1:C:565:LEU:HD11	1.88	0.51
1:C:1319:ARG:HD2	1:C:1322:TYR:HB3	1.93	0.51
1:C:1395:PRO:O	1:C:1396:ASN:HB2	2.11	0.51
1:D:280:GLU:HG3	1:D:281:TYR:N	2.25	0.51
1:D:310:ASN:ND2	1:D:455:THR:HA	2.26	0.51
1:D:1375:MET:CE	1:D:1525:PHE:HE1	2.24	0.51
1:D:1406:PRO:HG3	1:D:1483:VAL:HG11	1.92	0.51
1:D:1498:VAL:HG23	1:D:1557:ALA:CA	2.39	0.51
1:E:622:ILE:CG2	1:E:627:LEU:HG	2.41	0.51
1:A:513:SER:O	1:A:517:ARG:HG2	2.10	0.51
1:A:859:LEU:HD12	1:A:859:LEU:H	1.76	0.51
1:A:1400:ASN:O	1:A:1402:LEU:HD23	2.11	0.51
1:A:1408:TYR:CD1	1:A:1467:LEU:CD1	2.93	0.51
1:A:1408:TYR:CE1	1:A:1467:LEU:HD12	2.46	0.51
1:A:1472:PHE:CE1	1:A:1474:THR:CG2	2.94	0.51
1:A:1560:GLU:OE1	1:A:1560:GLU:HA	2.10	0.51
1:B:296:PHE:CE1	1:B:447:SER:CB	2.94	0.51
1:B:557:ILE:HD12	1:B:565:LEU:HD11	1.88	0.51
1:B:852:GLN:HA	1:B:855:ASN:OD1	2.11	0.51
1:C:497:ILE:HG21	1:C:589:TYR:CD2	2.46	0.51
1:C:701:GLN:CD	1:C:701:GLN:H	2.13	0.51
1:D:663:LEU:HG	1:D:663:LEU:O	2.10	0.51
1:D:832:ALA:CB	1:D:868:PHE:CD1	2.94	0.51
1:D:849:ALA:HB1	1:D:877:ILE:O	2.11	0.51
1:D:859:LEU:HD12	1:D:859:LEU:H	1.76	0.51
1:D:1400:ASN:O	1:D:1402:LEU:HD23	2.11	0.51
1:D:1563:ARG:H	1:D:1563:ARG:HD2	1.75	0.51
1:E:513:SER:O	1:E:517:ARG:HG2	2.10	0.51
1:E:667:ILE:CG2	1:E:671:LEU:HD13	2.40	0.51
1:E:849:ALA:HB1	1:E:877:ILE:O	2.11	0.51
1:E:1381:LEU:HD13	1:E:1382:GLY:N	2.26	0.51
1:A:296:PHE:CE1	1:A:447:SER:CB	2.94	0.51
1:A:563:PHE:CE1	1:A:567:LYS:HE2	2.45	0.51
1:A:670:LEU:O	1:A:674:VAL:HG23	2.11	0.51
1:A:799:LEU:HD13	1:A:799:LEU:C	2.31	0.51
1:A:849:ALA:HB1	1:A:877:ILE:O	2.11	0.51
1:B:503:ILE:HG21	1:B:515:PHE:HD1	1.74	0.51
1:B:503:ILE:CB	1:B:582:LEU:HD11	2.41	0.51
1:B:663:LEU:HD12	1:B:668:LYS:HE2	1.92	0.51
1:B:825:PHE:CZ	1:B:871:TRP:HB2	2.46	0.51
1:B:1319:ARG:HD2	1:B:1322:TYR:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1340:ILE:HG13	1:B:1353:ILE:HD12	1.93	0.51
1:C:296:PHE:CE1	1:C:454:PRO:HG3	2.46	0.51
1:C:409:GLY:HA2	1:C:423:ALA:CB	2.41	0.51
1:C:498:LEU:CD1	1:C:593:LEU:HD23	2.37	0.51
1:C:503:ILE:HG21	1:C:515:PHE:HD1	1.74	0.51
1:C:667:ILE:CG2	1:C:671:LEU:HD13	2.41	0.51
1:D:340:GLN:HG2	1:D:361:ASN:CG	2.32	0.51
1:D:440:LEU:CD1	1:D:444:ILE:HG13	2.41	0.51
1:D:482:LYS:HA	1:D:485:MET:HE2	1.89	0.51
1:D:597:ILE:HG13	1:D:598:HIS:N	2.26	0.51
1:D:659:TYR:CA	1:D:757:GLN:HB2	2.40	0.51
1:D:1327:TYR:O	1:D:1328:TYR:HB2	2.10	0.51
1:E:340:GLN:HG2	1:E:361:ASN:CG	2.32	0.51
1:E:571:HIS:ND1	1:E:618:ASN:HB3	2.25	0.51
1:E:659:TYR:CE1	1:E:758:ALA:CA	2.94	0.51
1:E:1375:MET:CE	1:E:1525:PHE:HE1	2.24	0.51
1:E:1472:PHE:CE1	1:E:1474:THR:CG2	2.94	0.51
1:A:610:ILE:HG22	1:A:615:GLY:O	2.11	0.51
1:A:667:ILE:CG2	1:A:671:LEU:HD13	2.40	0.51
1:A:832:ALA:CB	1:A:868:PHE:CD1	2.94	0.51
1:A:1327:TYR:O	1:A:1328:TYR:HB2	2.10	0.51
1:B:280:GLU:HG3	1:B:281:TYR:N	2.25	0.51
1:B:440:LEU:CD1	1:B:444:ILE:HG13	2.41	0.51
1:B:693:ALA:HB3	1:B:694:PRO:CD	2.40	0.51
1:B:1387:VAL:O	1:B:1487:VAL:HG22	2.11	0.51
1:B:1555:PHE:O	1:B:1567:TYR:HA	2.11	0.51
1:C:280:GLU:HG3	1:C:281:TYR:N	2.25	0.51
1:C:849:ALA:HB1	1:C:877:ILE:O	2.11	0.51
1:C:1375:MET:CE	1:C:1525:PHE:HE1	2.24	0.51
1:C:1387:VAL:O	1:C:1487:VAL:HG22	2.11	0.51
1:C:1408:TYR:CE1	1:C:1467:LEU:HD12	2.46	0.51
1:D:497:ILE:HG21	1:D:589:TYR:CD2	2.46	0.51
1:D:622:ILE:CG2	1:D:627:LEU:HG	2.41	0.51
1:D:763:GLU:HG2	1:D:767:HIS:CD2	2.45	0.51
1:D:825:PHE:CZ	1:D:871:TRP:HB2	2.46	0.51
1:D:1395:PRO:O	1:D:1396:ASN:HB2	2.11	0.51
1:D:1537:ILE:HG22	1:D:1538:ASP:N	2.25	0.51
1:E:484:TYR:O	1:E:488:TYR:HD2	1.94	0.51
1:E:497:ILE:HG21	1:E:589:TYR:CD2	2.46	0.51
1:E:597:ILE:HG13	1:E:598:HIS:N	2.26	0.51
1:E:663:LEU:HD12	1:E:668:LYS:HE2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:784:GLU:HG2	1:E:790:THR:CG2	2.39	0.51
1:A:255:ILE:HD12	1:A:442:LYS:HZ1	1.72	0.50
1:A:280:GLU:HG3	1:A:281:TYR:N	2.25	0.50
1:A:610:ILE:CG1	1:A:652:PHE:CE1	2.94	0.50
1:A:663:LEU:HD12	1:A:668:LYS:HE2	1.92	0.50
1:B:296:PHE:CE1	1:B:454:PRO:HG3	2.46	0.50
1:B:364:ASN:O	1:B:414:LEU:HB2	2.12	0.50
1:B:670:LEU:O	1:B:674:VAL:HG23	2.11	0.50
1:B:859:LEU:HD12	1:B:859:LEU:H	1.76	0.50
1:B:1400:ASN:O	1:B:1402:LEU:HD23	2.11	0.50
1:C:670:LEU:O	1:C:674:VAL:HG23	2.11	0.50
1:C:832:ALA:CB	1:C:868:PHE:CD1	2.94	0.50
1:C:1312:ILE:HD12	1:C:1574:VAL:CA	2.33	0.50
1:C:1441:ALA:CB	1:C:1443:ARG:HG2	2.40	0.50
1:C:1563:ARG:H	1:C:1563:ARG:HD2	1.75	0.50
1:D:513:SER:O	1:D:517:ARG:HG2	2.11	0.50
1:D:610:ILE:HG22	1:D:615:GLY:O	2.11	0.50
1:D:667:ILE:CG2	1:D:671:LEU:HD13	2.40	0.50
1:D:784:GLU:HG2	1:D:790:THR:CG2	2.39	0.50
1:D:882:ASN:O	1:D:886:GLN:HG2	2.10	0.50
1:D:1387:VAL:O	1:D:1487:VAL:HG22	2.11	0.50
1:D:1560:GLU:OE1	1:D:1560:GLU:HA	2.11	0.50
1:E:296:PHE:CE1	1:E:447:SER:CB	2.94	0.50
1:E:594:LEU:HD21	1:E:609:LEU:HD21	1.93	0.50
1:E:640:TRP:NE1	1:E:802:ILE:HG13	2.27	0.50
1:E:882:ASN:O	1:E:886:GLN:HG2	2.10	0.50
1:E:1500:ILE:CD1	1:E:1532:PHE:CZ	2.94	0.50
1:E:1537:ILE:HG22	1:E:1538:ASP:N	2.25	0.50
1:E:1555:PHE:CE1	1:E:1570:PHE:CD1	2.99	0.50
1:E:1560:GLU:OE1	1:E:1560:GLU:HA	2.11	0.50
1:A:409:GLY:HA2	1:A:423:ALA:CB	2.41	0.50
1:A:455:THR:HG21	1:A:508:TYR:CD1	2.46	0.50
1:A:597:ILE:HG13	1:A:598:HIS:N	2.26	0.50
1:A:748:THR:HA	1:A:751:HIS:HD2	1.77	0.50
1:A:1319:ARG:HD2	1:A:1322:TYR:HB3	1.93	0.50
1:A:1500:ILE:CD1	1:A:1532:PHE:CZ	2.94	0.50
1:B:274:ALA:CB	1:B:1519:ILE:HD11	2.26	0.50
1:B:539:ASN:OD1	1:B:542:SER:HB3	2.12	0.50
1:B:1327:TYR:HE2	1:B:1563:ARG:HB3	1.74	0.50
1:B:1500:ILE:CD1	1:B:1532:PHE:CZ	2.94	0.50
1:C:310:ASN:ND2	1:C:455:THR:HA	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:364:ASN:O	1:C:414:LEU:HB2	2.12	0.50
1:C:571:HIS:ND1	1:C:618:ASN:HB3	2.25	0.50
1:C:659:TYR:CE1	1:C:758:ALA:CA	2.93	0.50
1:C:784:GLU:HG2	1:C:790:THR:CG2	2.39	0.50
1:C:852:GLN:HA	1:C:855:ASN:OD1	2.11	0.50
1:C:1555:PHE:CE1	1:C:1570:PHE:CD1	2.99	0.50
1:C:1560:GLU:HA	1:C:1560:GLU:OE1	2.11	0.50
1:D:455:THR:HG21	1:D:508:TYR:CD1	2.46	0.50
1:D:748:THR:HA	1:D:751:HIS:HD2	1.77	0.50
1:D:1452:ILE:HD12	1:D:1452:ILE:H	1.75	0.50
1:E:409:GLY:HA2	1:E:423:ALA:CB	2.41	0.50
1:E:610:ILE:CG1	1:E:652:PHE:CE1	2.94	0.50
1:E:853:ALA:HA	1:E:880:TRP:HE1	1.77	0.50
1:E:1311:GLU:O	1:E:1311:GLU:HG3	2.11	0.50
1:E:1326:ASP:CG	1:E:1564:LYS:HB3	2.31	0.50
1:E:1340:ILE:CG1	1:E:1572:ILE:HD13	2.42	0.50
1:A:264:TYR:CD2	1:A:434:TYR:HA	2.46	0.50
1:A:714:TRP:CE3	1:A:762:LEU:CD1	2.94	0.50
1:A:853:ALA:HA	1:A:880:TRP:HE1	1.77	0.50
1:A:1387:VAL:O	1:A:1487:VAL:HG22	2.11	0.50
1:A:1420:GLY:HA3	1:A:1462:ASN:HD21	1.75	0.50
1:B:563:PHE:CE1	1:B:567:LYS:HE2	2.45	0.50
1:B:659:TYR:CE1	1:B:758:ALA:CA	2.94	0.50
1:B:1452:ILE:HD12	1:B:1452:ILE:H	1.76	0.50
1:C:563:PHE:CE1	1:C:567:LYS:HE2	2.45	0.50
1:C:610:ILE:HG22	1:C:615:GLY:O	2.11	0.50
1:C:1472:PHE:CE1	1:C:1474:THR:CG2	2.94	0.50
1:C:1500:ILE:CD1	1:C:1532:PHE:CZ	2.94	0.50
1:D:852:GLN:HA	1:D:855:ASN:OD1	2.11	0.50
1:D:1555:PHE:CE1	1:D:1570:PHE:CD1	2.99	0.50
1:E:310:ASN:ND2	1:E:455:THR:HA	2.26	0.50
1:E:337:ASN:C	1:E:339:TYR:H	2.13	0.50
1:E:363:TYR:CZ	1:E:414:LEU:CD2	2.95	0.50
1:E:733:TRP:CE3	1:E:752:ILE:CD1	2.95	0.50
1:E:799:LEU:HD13	1:E:799:LEU:C	2.31	0.50
1:E:1452:ILE:HD12	1:E:1452:ILE:H	1.75	0.50
1:A:503:ILE:CB	1:A:582:LEU:HD11	2.41	0.50
1:A:563:PHE:CZ	1:A:567:LYS:CE	2.95	0.50
1:A:852:GLN:CB	1:A:880:TRP:CD2	2.95	0.50
1:A:1340:ILE:CG1	1:A:1572:ILE:HD13	2.42	0.50
1:B:518:LEU:HD11	1:B:589:TYR:OH	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:563:PHE:CZ	1:B:567:LYS:CE	2.95	0.50
1:B:597:ILE:HG13	1:B:598:HIS:N	2.26	0.50
1:B:610:ILE:CD1	1:B:652:PHE:CE1	2.95	0.50
1:B:667:ILE:CG2	1:B:671:LEU:HD13	2.41	0.50
1:B:853:ALA:HA	1:B:880:TRP:HE1	1.77	0.50
1:B:1311:GLU:HG3	1:B:1311:GLU:O	2.11	0.50
1:B:1340:ILE:CG1	1:B:1572:ILE:HD13	2.42	0.50
1:B:1395:PRO:O	1:B:1396:ASN:HB2	2.11	0.50
1:C:251:LEU:CD2	1:C:470:ILE:HG21	2.22	0.50
1:C:337:ASN:C	1:C:339:TYR:H	2.13	0.50
1:C:853:ALA:HA	1:C:880:TRP:HE1	1.77	0.50
1:C:859:LEU:HD12	1:C:859:LEU:H	1.76	0.50
1:C:1340:ILE:HG13	1:C:1353:ILE:HD12	1.93	0.50
1:D:296:PHE:CE1	1:D:447:SER:CB	2.94	0.50
1:D:439:LYS:HA	1:D:442:LYS:HZ1	1.76	0.50
1:D:563:PHE:CE1	1:D:567:LYS:HE2	2.45	0.50
1:D:1390:SER:HB3	1:D:1484:SER:HB2	1.94	0.50
1:E:440:LEU:CD1	1:E:444:ILE:HG13	2.41	0.50
1:E:644:GLN:O	1:E:645:LYS:HB2	2.12	0.50
1:E:830:LEU:HD23	1:E:830:LEU:C	2.32	0.50
1:E:852:GLN:HA	1:E:855:ASN:OD1	2.11	0.50
1:E:1395:PRO:O	1:E:1396:ASN:HB2	2.11	0.50
1:A:536:ILE:HB	1:A:578:ILE:HG13	1.90	0.50
1:A:594:LEU:HD21	1:A:609:LEU:HD21	1.93	0.50
1:A:640:TRP:NE1	1:A:802:ILE:HG13	2.26	0.50
1:A:852:GLN:CB	1:A:880:TRP:CE3	2.95	0.50
1:A:852:GLN:HA	1:A:855:ASN:OD1	2.11	0.50
1:A:1563:ARG:H	1:A:1563:ARG:HD2	1.75	0.50
1:B:264:TYR:CD2	1:B:434:TYR:CA	2.95	0.50
1:B:428:VAL:HG13	1:B:428:VAL:O	2.11	0.50
1:B:468:LEU:HD12	1:B:468:LEU:N	2.27	0.50
1:B:714:TRP:CE3	1:B:762:LEU:CD1	2.94	0.50
1:B:832:ALA:CB	1:B:868:PHE:CD1	2.94	0.50
1:B:1326:ASP:CG	1:B:1564:LYS:HB3	2.31	0.50
1:B:1381:LEU:HD13	1:B:1382:GLY:N	2.26	0.50
1:B:1420:GLY:HA3	1:B:1462:ASN:HD21	1.75	0.50
1:B:1472:PHE:CE1	1:B:1474:THR:CG2	2.94	0.50
1:C:503:ILE:CB	1:C:582:LEU:HD11	2.41	0.50
1:C:610:ILE:CD1	1:C:652:PHE:CE1	2.95	0.50
1:C:630:LEU:HD21	1:C:634:LEU:HD11	1.94	0.50
1:C:640:TRP:NE1	1:C:802:ILE:HG13	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1400:ASN:O	1:C:1402:LEU:HD23	2.11	0.50
1:D:364:ASN:O	1:D:414:LEU:HB2	2.12	0.50
1:D:484:TYR:O	1:D:488:TYR:HD2	1.94	0.50
1:D:503:ILE:CB	1:D:582:LEU:HD11	2.41	0.50
1:D:630:LEU:HD21	1:D:634:LEU:HD11	1.94	0.50
1:D:644:GLN:O	1:D:645:LYS:HB2	2.11	0.50
1:D:714:TRP:CE3	1:D:762:LEU:CD1	2.94	0.50
1:E:455:THR:HG21	1:E:508:TYR:CD1	2.46	0.50
1:E:503:ILE:CB	1:E:582:LEU:HD11	2.41	0.50
1:E:1390:SER:HB3	1:E:1484:SER:HB2	1.94	0.50
1:A:264:TYR:CD2	1:A:434:TYR:CA	2.95	0.50
1:A:364:ASN:O	1:A:414:LEU:HB2	2.12	0.50
1:A:1340:ILE:HG13	1:A:1353:ILE:HD12	1.93	0.50
1:B:852:GLN:CB	1:B:880:TRP:CD2	2.95	0.50
1:C:340:GLN:HG2	1:C:361:ASN:CG	2.31	0.50
1:C:563:PHE:CZ	1:C:567:LYS:CE	2.95	0.50
1:C:714:TRP:CE3	1:C:762:LEU:CD1	2.94	0.50
1:C:1390:SER:HB3	1:C:1484:SER:HB2	1.94	0.50
1:D:295:GLN:HB2	1:D:454:PRO:HG2	1.94	0.50
1:D:409:GLY:HA2	1:D:423:ALA:CB	2.41	0.50
1:D:468:LEU:N	1:D:468:LEU:HD12	2.27	0.50
1:D:518:LEU:HD11	1:D:589:TYR:OH	2.12	0.50
1:D:653:ILE:HD11	1:D:764:MET:HE1	1.93	0.50
1:D:799:LEU:HD13	1:D:799:LEU:C	2.31	0.50
1:D:1327:TYR:CD2	1:D:1563:ARG:CB	2.95	0.50
1:D:1340:ILE:CG1	1:D:1572:ILE:HD13	2.42	0.50
1:D:1472:PHE:CE1	1:D:1474:THR:CG2	2.94	0.50
1:E:428:VAL:HG13	1:E:428:VAL:O	2.11	0.50
1:E:653:ILE:HD11	1:E:764:MET:HE1	1.94	0.50
1:E:670:LEU:O	1:E:674:VAL:HG23	2.12	0.50
1:E:714:TRP:CE3	1:E:762:LEU:CD1	2.94	0.50
1:E:859:LEU:HD12	1:E:859:LEU:H	1.76	0.50
1:A:484:TYR:O	1:A:488:TYR:HD2	1.94	0.50
1:A:608:LEU:CD2	1:A:651:LEU:HD23	2.42	0.50
1:B:484:TYR:O	1:B:488:TYR:HD2	1.94	0.50
1:B:682:ASP:HB3	1:B:685:LYS:HG2	1.94	0.50
1:B:748:THR:HA	1:B:751:HIS:HD2	1.77	0.50
1:B:830:LEU:HD23	1:B:830:LEU:C	2.32	0.50
1:B:1378:TYR:HB3	1:B:1421:ARG:HH22	1.77	0.50
1:B:1390:SER:HB3	1:B:1484:SER:HB2	1.94	0.50
1:B:1560:GLU:OE1	1:B:1560:GLU:HA	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:264:TYR:CD2	1:C:434:TYR:HA	2.46	0.50
1:C:440:LEU:CD1	1:C:444:ILE:HG13	2.41	0.50
1:C:644:GLN:O	1:C:645:LYS:HB2	2.11	0.50
1:C:1375:MET:CE	1:C:1525:PHE:CE1	2.95	0.50
1:D:610:ILE:CD1	1:D:652:PHE:CE1	2.95	0.50
1:D:670:LEU:O	1:D:674:VAL:HG23	2.11	0.50
1:D:830:LEU:HD23	1:D:830:LEU:C	2.32	0.50
1:E:264:TYR:CD2	1:E:434:TYR:CA	2.95	0.50
1:E:342:ASP:CB	1:E:358:LYS:HG2	2.39	0.50
1:E:832:ALA:CB	1:E:868:PHE:CD1	2.94	0.50
1:E:1378:TYR:HB3	1:E:1421:ARG:HH22	1.77	0.50
1:E:1408:TYR:CE1	1:E:1467:LEU:HD12	2.46	0.50
1:A:340:GLN:HG2	1:A:361:ASN:CG	2.32	0.50
1:A:733:TRP:CE3	1:A:752:ILE:CD1	2.95	0.50
1:A:1390:SER:HB3	1:A:1484:SER:HB2	1.94	0.50
1:A:1555:PHE:O	1:A:1567:TYR:HA	2.11	0.50
1:B:418:SER:HB2	1:B:419:TRP:CE3	2.47	0.50
1:B:659:TYR:CA	1:B:757:GLN:HB2	2.40	0.50
1:B:1375:MET:CE	1:B:1525:PHE:CE1	2.95	0.50
1:C:468:LEU:HD12	1:C:468:LEU:N	2.27	0.50
1:C:1311:GLU:HG3	1:C:1311:GLU:O	2.11	0.50
1:C:1340:ILE:CG1	1:C:1572:ILE:HD13	2.42	0.50
1:C:1555:PHE:O	1:C:1567:TYR:HA	2.11	0.50
1:D:520:ASN:HD21	1:D:528:TYR:HB2	1.77	0.50
1:D:824:ALA:HA	1:D:829:SER:OG	2.12	0.50
1:D:1474:THR:HG22	1:D:1480:ALA:CA	2.42	0.50
1:E:594:LEU:HD23	1:E:605:LEU:HD11	1.94	0.50
1:E:630:LEU:HD21	1:E:634:LEU:HD11	1.94	0.50
1:E:1327:TYR:HE2	1:E:1563:ARG:HB3	1.74	0.50
1:A:379:VAL:HG12	1:A:380:ARG:N	2.27	0.50
1:A:428:VAL:HG13	1:A:428:VAL:O	2.11	0.50
1:A:654:MET:HE1	1:A:801:LEU:HD22	1.94	0.50
1:A:1326:ASP:CG	1:A:1564:LYS:HB3	2.31	0.50
1:B:409:GLY:HA2	1:B:423:ALA:CB	2.41	0.50
1:B:852:GLN:CB	1:B:880:TRP:CE3	2.95	0.50
1:B:1327:TYR:CD2	1:B:1563:ARG:CB	2.95	0.50
1:C:264:TYR:CD2	1:C:434:TYR:CA	2.95	0.50
1:C:378:LEU:HD13	1:C:395:ILE:CD1	2.42	0.50
1:C:682:ASP:HB3	1:C:685:LYS:HG2	1.94	0.50
1:D:1408:TYR:CE1	1:D:1467:LEU:HD12	2.46	0.50
1:E:295:GLN:HB2	1:E:454:PRO:HG2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:659:TYR:CA	1:E:757:GLN:HB2	2.40	0.50
1:E:852:GLN:CB	1:E:880:TRP:CD2	2.95	0.50
1:A:539:ASN:OD1	1:A:542:SER:HB3	2.12	0.49
1:A:1375:MET:CE	1:A:1525:PHE:CE1	2.95	0.49
1:A:1381:LEU:HD13	1:A:1382:GLY:N	2.26	0.49
1:A:1537:ILE:HG22	1:A:1538:ASP:N	2.25	0.49
1:B:594:LEU:HG	1:B:634:LEU:CD1	2.42	0.49
1:B:608:LEU:CD2	1:B:651:LEU:HD23	2.42	0.49
1:C:520:ASN:HD21	1:C:528:TYR:HB2	1.77	0.49
1:C:852:GLN:CB	1:C:880:TRP:CE3	2.95	0.49
1:D:264:TYR:CD2	1:D:434:TYR:CA	2.95	0.49
1:D:428:VAL:HG13	1:D:428:VAL:O	2.11	0.49
1:D:594:LEU:HD23	1:D:605:LEU:HD11	1.94	0.49
1:D:640:TRP:NE1	1:D:802:ILE:HG13	2.27	0.49
1:D:1500:ILE:CD1	1:D:1532:PHE:CZ	2.94	0.49
1:E:264:TYR:CD2	1:E:434:TYR:HA	2.46	0.49
1:E:468:LEU:HD12	1:E:468:LEU:N	2.27	0.49
1:E:852:GLN:CB	1:E:880:TRP:CE3	2.95	0.49
1:E:1327:TYR:CD2	1:E:1563:ARG:CB	2.95	0.49
1:A:342:ASP:CB	1:A:358:LYS:HG2	2.39	0.49
1:A:594:LEU:HD23	1:A:605:LEU:HD11	1.94	0.49
1:A:1452:ILE:HD12	1:A:1452:ILE:H	1.75	0.49
1:A:1555:PHE:CE1	1:A:1570:PHE:CD1	2.99	0.49
1:B:340:GLN:HG2	1:B:361:ASN:CG	2.32	0.49
1:B:514:GLN:HA	1:B:517:ARG:NE	2.27	0.49
1:B:622:ILE:HG23	1:B:627:LEU:CG	2.42	0.49
1:C:371:LYS:HB3	1:C:373:ASN:O	2.12	0.49
1:C:402:ILE:CG2	1:C:428:VAL:HG13	2.42	0.49
1:C:418:SER:HB2	1:C:419:TRP:CE3	2.47	0.49
1:C:514:GLN:HA	1:C:517:ARG:NE	2.27	0.49
1:C:518:LEU:HD11	1:C:589:TYR:OH	2.12	0.49
1:C:748:THR:HA	1:C:751:HIS:HD2	1.77	0.49
1:C:1537:ILE:HG22	1:C:1538:ASP:N	2.25	0.49
1:D:299:LYS:HD3	1:D:299:LYS:H	1.77	0.49
1:D:340:GLN:CG	1:D:361:ASN:HB2	2.29	0.49
1:D:379:VAL:HG12	1:D:380:ARG:N	2.27	0.49
1:D:539:ASN:OD1	1:D:542:SER:HB3	2.12	0.49
1:D:594:LEU:HD21	1:D:609:LEU:HD21	1.93	0.49
1:D:604:GLU:CG	1:D:649:PHE:CE1	2.95	0.49
1:D:1311:GLU:HG3	1:D:1311:GLU:O	2.11	0.49
1:E:402:ILE:CG2	1:E:428:VAL:HG13	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:520:ASN:HD21	1:E:528:TYR:HB2	1.77	0.49
1:E:1408:TYR:CD1	1:E:1467:LEU:CD1	2.93	0.49
1:A:594:LEU:HG	1:A:634:LEU:CD1	2.42	0.49
1:A:610:ILE:CD1	1:A:652:PHE:CE1	2.95	0.49
1:A:644:GLN:O	1:A:645:LYS:HB2	2.12	0.49
1:A:824:ALA:HA	1:A:829:SER:OG	2.12	0.49
1:A:830:LEU:HD23	1:A:830:LEU:C	2.32	0.49
1:C:295:GLN:HB2	1:C:454:PRO:HG2	1.94	0.49
1:C:299:LYS:H	1:C:299:LYS:HD3	1.77	0.49
1:C:659:TYR:CA	1:C:757:GLN:HB2	2.40	0.49
1:C:722:ASP:N	1:C:754:GLN:HE22	2.11	0.49
1:C:1474:THR:HG22	1:C:1480:ALA:CA	2.42	0.49
1:C:1493:ILE:CD1	1:C:1565:LEU:HD11	2.41	0.49
1:D:264:TYR:CD2	1:D:434:TYR:HA	2.46	0.49
1:D:514:GLN:HA	1:D:517:ARG:NE	2.27	0.49
1:D:1340:ILE:HG13	1:D:1353:ILE:HD12	1.93	0.49
1:E:378:LEU:HD13	1:E:395:ILE:CD1	2.42	0.49
1:E:831:THR:HG22	1:E:832:ALA:H	1.78	0.49
1:E:1555:PHE:O	1:E:1567:TYR:HA	2.11	0.49
1:A:440:LEU:CD1	1:A:444:ILE:HG13	2.41	0.49
1:A:622:ILE:HG23	1:A:627:LEU:CG	2.42	0.49
1:A:1311:GLU:HG3	1:A:1311:GLU:O	2.11	0.49
1:B:630:LEU:HD21	1:B:634:LEU:HD11	1.94	0.49
1:C:343:VAL:HG21	1:C:410:LEU:HD13	1.94	0.49
1:C:594:LEU:HD23	1:C:605:LEU:HD11	1.94	0.49
1:C:733:TRP:CE3	1:C:752:ILE:CD1	2.95	0.49
1:C:1375:MET:HE2	1:C:1525:PHE:CE1	2.47	0.49
1:C:1381:LEU:HD13	1:C:1382:GLY:N	2.26	0.49
1:C:1408:TYR:CD1	1:C:1467:LEU:CD1	2.93	0.49
1:D:852:GLN:CB	1:D:880:TRP:CD2	2.95	0.49
1:D:1381:LEU:HD13	1:D:1382:GLY:N	2.26	0.49
1:E:539:ASN:OD1	1:E:542:SER:HB3	2.12	0.49
1:E:608:LEU:CD2	1:E:651:LEU:HD23	2.42	0.49
1:E:1375:MET:CE	1:E:1525:PHE:CE1	2.95	0.49
1:E:1474:THR:HG22	1:E:1480:ALA:CA	2.42	0.49
1:A:264:TYR:HD2	1:A:434:TYR:O	1.96	0.49
1:A:418:SER:HB2	1:A:419:TRP:CE3	2.47	0.49
1:A:442:LYS:HG3	1:A:443:ALA:N	2.28	0.49
1:A:604:GLU:CG	1:A:649:PHE:CE1	2.95	0.49
1:A:630:LEU:HD21	1:A:634:LEU:HD11	1.94	0.49
1:A:733:TRP:HE3	1:A:734:LEU:HD23	1.72	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1380:LYS:CG	1:A:1413:ASN:HD21	2.25	0.49
1:A:1493:ILE:CD1	1:A:1565:LEU:HD11	2.42	0.49
1:B:520:ASN:HD21	1:B:528:TYR:HB2	1.77	0.49
1:B:640:TRP:NE1	1:B:802:ILE:HG13	2.27	0.49
1:B:722:ASP:N	1:B:754:GLN:HE22	2.11	0.49
1:B:733:TRP:CE3	1:B:752:ILE:CD1	2.95	0.49
1:B:1561:ASP:OD1	1:B:1563:ARG:HD2	2.13	0.49
1:C:824:ALA:HA	1:C:829:SER:OG	2.12	0.49
1:C:1327:TYR:CD2	1:C:1563:ARG:CB	2.95	0.49
1:C:1387:VAL:HG22	1:C:1487:VAL:CG2	2.43	0.49
1:D:442:LYS:HG3	1:D:443:ALA:N	2.28	0.49
1:D:563:PHE:CZ	1:D:567:LYS:CE	2.95	0.49
1:D:594:LEU:HG	1:D:634:LEU:CD1	2.42	0.49
1:D:622:ILE:HG23	1:D:627:LEU:CG	2.42	0.49
1:D:682:ASP:HB3	1:D:685:LYS:HG2	1.94	0.49
1:D:722:ASP:N	1:D:754:GLN:HE22	2.11	0.49
1:D:852:GLN:CB	1:D:880:TRP:CE3	2.95	0.49
1:D:1339:THR:C	1:D:1340:ILE:HD12	2.33	0.49
1:D:1375:MET:CE	1:D:1525:PHE:CE1	2.95	0.49
1:E:218:LEU:HD11	1:E:239:ILE:HG21	1.94	0.49
1:E:418:SER:HB2	1:E:419:TRP:CE3	2.47	0.49
1:E:610:ILE:CD1	1:E:652:PHE:CE1	2.95	0.49
1:E:622:ILE:HG23	1:E:627:LEU:CG	2.42	0.49
1:E:790:THR:HG22	1:E:790:THR:O	2.13	0.49
1:E:1387:VAL:HG22	1:E:1487:VAL:CG2	2.43	0.49
1:A:363:TYR:CZ	1:A:414:LEU:CD2	2.95	0.49
1:A:402:ILE:CG2	1:A:428:VAL:HG13	2.42	0.49
1:A:1327:TYR:CD2	1:A:1563:ARG:CB	2.95	0.49
1:A:1327:TYR:HE2	1:A:1563:ARG:HB3	1.74	0.49
1:B:264:TYR:CD2	1:B:434:TYR:HA	2.46	0.49
1:C:539:ASN:OD1	1:C:542:SER:HB3	2.12	0.49
1:C:594:LEU:HG	1:C:634:LEU:CD1	2.42	0.49
1:C:612:VAL:HG13	1:C:614:GLU:N	2.25	0.49
1:C:622:ILE:HG23	1:C:627:LEU:CG	2.42	0.49
1:C:830:LEU:HD23	1:C:830:LEU:C	2.32	0.49
1:C:852:GLN:CB	1:C:880:TRP:CD2	2.95	0.49
1:D:218:LEU:HD11	1:D:239:ILE:HG21	1.94	0.49
1:D:371:LYS:HB3	1:D:373:ASN:O	2.12	0.49
1:D:1561:ASP:OD1	1:D:1563:ARG:HD2	2.13	0.49
1:E:364:ASN:O	1:E:414:LEU:HB2	2.12	0.49
1:A:341:MET:CB	1:A:422:ALA:HB1	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:468:LEU:N	1:A:468:LEU:HD12	2.27	0.49
1:A:682:ASP:HB3	1:A:685:LYS:HG2	1.94	0.49
1:B:299:LYS:HD3	1:B:299:LYS:H	1.77	0.49
1:C:498:LEU:HD11	1:C:593:LEU:CD2	2.36	0.49
1:C:608:LEU:CD2	1:C:651:LEU:HD23	2.42	0.49
1:C:722:ASP:H	1:C:754:GLN:NE2	2.11	0.49
1:C:807:PHE:CD1	1:C:871:TRP:CZ2	3.01	0.49
1:C:1561:ASP:OD1	1:C:1563:ARG:HD2	2.13	0.49
1:D:498:LEU:CD1	1:D:593:LEU:HD23	2.38	0.49
1:D:1555:PHE:O	1:D:1567:TYR:HA	2.11	0.49
1:E:264:TYR:HD2	1:E:434:TYR:O	1.96	0.49
1:E:379:VAL:HG12	1:E:380:ARG:N	2.27	0.49
1:E:563:PHE:CZ	1:E:567:LYS:CE	2.95	0.49
1:E:604:GLU:CG	1:E:649:PHE:CE1	2.95	0.49
1:E:1339:THR:C	1:E:1340:ILE:HD12	2.33	0.49
1:E:1493:ILE:CD1	1:E:1565:LEU:HD11	2.42	0.49
1:A:227:ILE:CA	1:A:230:LEU:HD13	2.43	0.49
1:A:722:ASP:N	1:A:754:GLN:HE22	2.11	0.49
1:B:371:LYS:HB3	1:B:373:ASN:O	2.12	0.49
1:B:379:VAL:HG12	1:B:380:ARG:N	2.27	0.49
1:B:824:ALA:HA	1:B:829:SER:OG	2.12	0.49
1:C:230:LEU:CD2	1:C:880:TRP:CZ2	2.94	0.49
1:C:244:SER:HB3	1:C:245:PRO:CD	2.38	0.49
1:C:856:HIS:CE1	1:C:880:TRP:HH2	2.31	0.49
1:C:1339:THR:C	1:C:1340:ILE:HD12	2.33	0.49
1:C:1378:TYR:HB3	1:C:1421:ARG:HH22	1.77	0.49
1:D:733:TRP:CE3	1:D:752:ILE:CD1	2.95	0.49
1:D:1378:TYR:HB2	1:D:1423:LEU:HD13	1.95	0.49
1:D:1493:ILE:CD1	1:D:1565:LEU:HD11	2.41	0.49
1:E:296:PHE:CZ	1:E:444:ILE:HA	2.47	0.49
1:A:230:LEU:HG	1:A:856:HIS:CG	2.48	0.49
1:A:1387:VAL:HG22	1:A:1487:VAL:CG2	2.43	0.49
1:B:230:LEU:HG	1:B:856:HIS:CG	2.47	0.49
1:B:264:TYR:HD2	1:B:434:TYR:O	1.96	0.49
1:B:442:LYS:HG3	1:B:443:ALA:N	2.28	0.49
1:B:1493:ILE:CD1	1:B:1565:LEU:HD11	2.41	0.49
1:C:428:VAL:HG13	1:C:428:VAL:O	2.11	0.49
1:C:1378:TYR:HB2	1:C:1423:LEU:HD13	1.95	0.49
1:D:264:TYR:HD2	1:D:434:TYR:O	1.96	0.49
1:D:714:TRP:HE1	1:D:718:LEU:HD21	1.78	0.49
1:D:722:ASP:H	1:D:754:GLN:NE2	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:807:PHE:CD1	1:D:871:TRP:CZ2	3.01	0.49
1:E:371:LYS:HB3	1:E:373:ASN:O	2.12	0.49
1:E:442:LYS:HG3	1:E:443:ALA:N	2.28	0.49
1:E:497:ILE:HD12	1:E:503:ILE:HD13	1.95	0.49
1:E:824:ALA:HA	1:E:829:SER:OG	2.12	0.49
1:E:1378:TYR:HB2	1:E:1423:LEU:HD13	1.95	0.49
1:A:343:VAL:HG21	1:A:410:LEU:HD13	1.94	0.49
1:A:514:GLN:HA	1:A:517:ARG:NE	2.27	0.49
1:A:518:LEU:HD11	1:A:589:TYR:OH	2.12	0.49
1:A:520:ASN:HD21	1:A:528:TYR:HB2	1.77	0.49
1:A:1339:THR:C	1:A:1340:ILE:HD12	2.33	0.49
1:A:1498:VAL:CG2	1:A:1557:ALA:HB2	2.37	0.49
1:B:264:TYR:HD2	1:B:438:LEU:HD12	1.78	0.49
1:B:341:MET:CB	1:B:422:ALA:HB1	2.43	0.49
1:B:536:ILE:HB	1:B:578:ILE:HG13	1.90	0.49
1:B:852:GLN:HB3	1:B:880:TRP:CD2	2.48	0.49
1:B:1441:ALA:O	1:B:1442:LYS:HB2	2.13	0.49
1:C:363:TYR:CZ	1:C:414:LEU:CD2	2.95	0.49
1:C:442:LYS:HG3	1:C:443:ALA:N	2.28	0.49
1:C:714:TRP:HE1	1:C:718:LEU:HD21	1.78	0.49
1:C:831:THR:HG22	1:C:832:ALA:H	1.78	0.49
1:D:608:LEU:CD2	1:D:651:LEU:HD23	2.42	0.49
1:D:853:ALA:HA	1:D:880:TRP:HE1	1.77	0.49
1:D:856:HIS:CE1	1:D:880:TRP:HH2	2.31	0.49
1:E:295:GLN:HB3	1:E:454:PRO:CG	2.43	0.49
1:E:341:MET:CB	1:E:422:ALA:HB1	2.43	0.49
1:E:365:ALA:HB1	1:E:413:VAL:O	2.13	0.49
1:E:494:THR:O	1:E:498:LEU:HD13	2.13	0.49
1:E:518:LEU:HD11	1:E:589:TYR:OH	2.12	0.49
1:E:748:THR:HA	1:E:751:HIS:HD2	1.77	0.49
1:E:1491:THR:HG22	1:E:1491:THR:O	2.13	0.49
1:A:365:ALA:HB1	1:A:413:VAL:O	2.13	0.48
1:A:1378:TYR:HB3	1:A:1421:ARG:HH22	1.77	0.48
1:A:1407:VAL:HG13	1:A:1423:LEU:HB2	1.94	0.48
1:A:1469:GLN:HG3	1:A:1470:TYR:H	1.78	0.48
1:B:227:ILE:CA	1:B:230:LEU:HD13	2.43	0.48
1:B:295:GLN:HB2	1:B:454:PRO:HG2	1.94	0.48
1:B:343:VAL:HG21	1:B:410:LEU:HD13	1.94	0.48
1:B:722:ASP:H	1:B:754:GLN:NE2	2.11	0.48
1:C:264:TYR:HD2	1:C:434:TYR:O	1.96	0.48
1:C:494:THR:O	1:C:498:LEU:HD13	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:363:TYR:HB3	1:D:412:ARG:CD	2.43	0.48
1:D:1407:VAL:HG13	1:D:1423:LEU:HB2	1.94	0.48
1:D:1491:THR:O	1:D:1491:THR:HG22	2.13	0.48
1:E:227:ILE:CA	1:E:230:LEU:HD13	2.43	0.48
1:E:498:LEU:CD1	1:E:593:LEU:HD23	2.38	0.48
1:E:1380:LYS:CG	1:E:1413:ASN:HD21	2.26	0.48
1:A:230:LEU:HD23	1:A:856:HIS:ND1	2.28	0.48
1:A:363:TYR:HB3	1:A:412:ARG:CD	2.43	0.48
1:A:1441:ALA:O	1:A:1442:LYS:HB2	2.13	0.48
1:A:1561:ASP:OD1	1:A:1563:ARG:HD2	2.13	0.48
1:B:365:ALA:HB1	1:B:413:VAL:O	2.13	0.48
1:B:378:LEU:HD13	1:B:395:ILE:CD1	2.42	0.48
1:B:594:LEU:HD21	1:B:609:LEU:HD21	1.93	0.48
1:B:644:GLN:O	1:B:645:LYS:HB2	2.12	0.48
1:C:255:ILE:CD1	1:C:442:LYS:HZ1	2.26	0.48
1:D:295:GLN:HB3	1:D:454:PRO:CG	2.43	0.48
1:D:343:VAL:HG21	1:D:410:LEU:HD13	1.94	0.48
1:D:497:ILE:HD12	1:D:503:ILE:HD13	1.95	0.48
1:D:557:ILE:HD12	1:D:565:LEU:HD11	1.88	0.48
1:D:610:ILE:CG1	1:D:652:PHE:CE1	2.94	0.48
1:D:1360:ILE:HD11	1:D:1527:GLU:CG	2.38	0.48
1:E:363:TYR:HB3	1:E:412:ARG:CD	2.43	0.48
1:E:514:GLN:HA	1:E:517:ARG:NE	2.27	0.48
1:E:536:ILE:HB	1:E:578:ILE:HG13	1.90	0.48
1:E:856:HIS:CE1	1:E:880:TRP:HH2	2.31	0.48
1:E:1351:ILE:HG23	1:E:1351:ILE:O	2.13	0.48
1:E:1360:ILE:HD11	1:E:1527:GLU:CG	2.38	0.48
1:E:1407:VAL:HG13	1:E:1423:LEU:HB2	1.94	0.48
1:E:1469:GLN:HG3	1:E:1470:TYR:H	1.78	0.48
1:A:299:LYS:HD3	1:A:299:LYS:H	1.77	0.48
1:A:371:LYS:HB3	1:A:373:ASN:O	2.12	0.48
1:A:786:PHE:HD2	1:A:803:MET:SD	2.36	0.48
1:A:1500:ILE:CD1	1:A:1532:PHE:CE2	2.97	0.48
1:B:363:TYR:CZ	1:B:414:LEU:CD2	2.95	0.48
1:B:714:TRP:HE1	1:B:718:LEU:HD21	1.78	0.48
1:B:831:THR:HG22	1:B:832:ALA:H	1.78	0.48
1:B:856:HIS:CE1	1:B:880:TRP:HH2	2.31	0.48
1:B:1339:THR:C	1:B:1340:ILE:HD12	2.33	0.48
1:B:1378:TYR:HB2	1:B:1423:LEU:HD13	1.95	0.48
1:B:1555:PHE:CE1	1:B:1570:PHE:CD1	2.99	0.48
1:C:227:ILE:CA	1:C:230:LEU:HD13	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:296:PHE:CE1	1:C:447:SER:CB	2.94	0.48
1:C:566:LEU:O	1:C:569:THR:HB	2.14	0.48
1:C:594:LEU:HD21	1:C:609:LEU:HD21	1.93	0.48
1:C:604:GLU:CG	1:C:649:PHE:CE1	2.95	0.48
1:D:1437:TRP:HZ3	1:D:1439:PRO:HG3	1.76	0.48
1:E:363:TYR:HB3	1:E:412:ARG:HD2	1.95	0.48
1:E:594:LEU:HG	1:E:634:LEU:CD1	2.43	0.48
1:E:807:PHE:CD1	1:E:871:TRP:CZ2	3.01	0.48
1:A:1550:SER:HB3	1:A:1571:SER:OG	2.13	0.48
1:B:494:THR:O	1:B:498:LEU:HD13	2.13	0.48
1:B:699:THR:HG23	1:B:700:LEU:N	2.29	0.48
1:B:1575:THR:HG22	1:B:1576:LEU:N	2.29	0.48
1:C:230:LEU:HD23	1:C:856:HIS:ND1	2.28	0.48
1:C:264:TYR:HD2	1:C:438:LEU:HD12	1.78	0.48
1:C:363:TYR:HB3	1:C:412:ARG:CD	2.43	0.48
1:D:365:ALA:HB1	1:D:413:VAL:O	2.13	0.48
1:D:418:SER:HB2	1:D:419:TRP:CE3	2.47	0.48
1:D:786:PHE:HD2	1:D:803:MET:SD	2.37	0.48
1:D:852:GLN:HB3	1:D:880:TRP:CD2	2.48	0.48
1:D:1378:TYR:HB3	1:D:1421:ARG:HH22	1.77	0.48
1:D:1500:ILE:CD1	1:D:1532:PHE:CE2	2.97	0.48
1:E:299:LYS:H	1:E:299:LYS:HD3	1.77	0.48
1:E:341:MET:HE2	1:E:422:ALA:CB	2.33	0.48
1:E:682:ASP:HB3	1:E:685:LYS:HG2	1.94	0.48
1:E:722:ASP:N	1:E:754:GLN:HE22	2.11	0.48
1:E:1441:ALA:O	1:E:1442:LYS:HB2	2.13	0.48
1:A:223:ALA:O	1:A:225:PRO:HD3	2.14	0.48
1:A:295:GLN:HB3	1:A:454:PRO:CG	2.43	0.48
1:A:295:GLN:HB2	1:A:454:PRO:HG2	1.94	0.48
1:A:494:THR:O	1:A:498:LEU:HD13	2.13	0.48
1:A:566:LEU:O	1:A:569:THR:HB	2.14	0.48
1:A:722:ASP:H	1:A:754:GLN:NE2	2.11	0.48
1:A:852:GLN:HB3	1:A:880:TRP:CD2	2.48	0.48
1:B:363:TYR:HB3	1:B:412:ARG:CD	2.43	0.48
1:B:567:LYS:N	1:B:567:LYS:HD2	2.29	0.48
1:B:589:TYR:CZ	1:B:593:LEU:CD1	2.94	0.48
1:B:807:PHE:HD1	1:B:871:TRP:CZ2	2.32	0.48
1:C:295:GLN:OE1	1:C:454:PRO:HD2	2.14	0.48
1:C:342:ASP:CB	1:C:358:LYS:HG2	2.39	0.48
1:C:379:VAL:HG12	1:C:380:ARG:N	2.27	0.48
1:C:567:LYS:HD2	1:C:567:LYS:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:610:ILE:CG1	1:C:652:PHE:CE1	2.94	0.48
1:C:825:PHE:CZ	1:C:871:TRP:HB2	2.46	0.48
1:C:1326:ASP:HB2	1:C:1563:ARG:HB2	1.95	0.48
1:D:494:THR:O	1:D:498:LEU:HD13	2.13	0.48
1:E:1500:ILE:CD1	1:E:1532:PHE:CE2	2.97	0.48
1:A:251:LEU:CD2	1:A:470:ILE:HG21	2.22	0.48
1:A:497:ILE:HD12	1:A:503:ILE:HD13	1.95	0.48
1:A:699:THR:HG23	1:A:700:LEU:N	2.29	0.48
1:A:851:ILE:HG23	1:A:852:GLN:N	2.29	0.48
1:B:230:LEU:HD23	1:B:856:HIS:ND1	2.28	0.48
1:B:340:GLN:CG	1:B:361:ASN:HB2	2.29	0.48
1:B:342:ASP:HB2	1:B:358:LYS:HG3	1.96	0.48
1:B:790:THR:HG22	1:B:790:THR:O	2.13	0.48
1:B:807:PHE:CD1	1:B:871:TRP:CZ2	3.01	0.48
1:B:1375:MET:HE2	1:B:1525:PHE:CE1	2.49	0.48
1:B:1469:GLN:HG3	1:B:1470:TYR:H	1.78	0.48
1:C:295:GLN:HB3	1:C:454:PRO:CG	2.43	0.48
1:C:447:SER:HG	1:C:454:PRO:HG3	1.77	0.48
1:C:600:LEU:HA	1:C:604:GLU:OE1	2.14	0.48
1:C:786:PHE:HD2	1:C:803:MET:SD	2.36	0.48
1:C:852:GLN:HB3	1:C:880:TRP:CD2	2.48	0.48
1:C:1550:SER:HB3	1:C:1571:SER:OG	2.13	0.48
1:D:402:ILE:CG2	1:D:428:VAL:HG13	2.42	0.48
1:D:456:ILE:HG23	1:D:457:LEU:N	2.29	0.48
1:D:851:ILE:HG23	1:D:852:GLN:N	2.29	0.48
1:D:1550:SER:HB3	1:D:1571:SER:OG	2.13	0.48
1:E:348:PHE:CD1	1:E:354:ARG:HB2	2.48	0.48
1:E:786:PHE:HD2	1:E:803:MET:SD	2.36	0.48
1:E:851:ILE:HG23	1:E:852:GLN:N	2.29	0.48
1:E:1326:ASP:HB2	1:E:1563:ARG:HB2	1.95	0.48
1:E:1489:ILE:HG22	1:E:1490:ASN:N	2.28	0.48
1:E:1575:THR:HG22	1:E:1576:LEU:N	2.28	0.48
1:A:218:LEU:HD11	1:A:239:ILE:HG21	1.94	0.48
1:A:291:GLU:HG3	1:A:292:GLU:N	2.29	0.48
1:A:600:LEU:HA	1:A:604:GLU:OE1	2.14	0.48
1:A:659:TYR:HB2	1:A:754:GLN:HG2	1.96	0.48
1:A:807:PHE:HD1	1:A:871:TRP:CZ2	2.32	0.48
1:A:856:HIS:CE1	1:A:880:TRP:HH2	2.31	0.48
1:A:1378:TYR:HB2	1:A:1423:LEU:HD13	1.95	0.48
1:A:1491:THR:O	1:A:1491:THR:HG22	2.13	0.48
1:B:348:PHE:CD1	1:B:354:ARG:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:594:LEU:HD23	1:B:605:LEU:HD11	1.94	0.48
1:B:786:PHE:HD2	1:B:803:MET:SD	2.37	0.48
1:B:1380:LYS:CG	1:B:1413:ASN:HD21	2.26	0.48
1:B:1500:ILE:CD1	1:B:1532:PHE:CE2	2.97	0.48
1:C:341:MET:CB	1:C:422:ALA:HB1	2.43	0.48
1:C:515:PHE:CE1	1:C:585:LEU:CD1	2.94	0.48
1:D:295:GLN:OE1	1:D:454:PRO:HD2	2.14	0.48
1:D:363:TYR:HB3	1:D:412:ARG:HD2	1.95	0.48
1:D:567:LYS:N	1:D:567:LYS:HD2	2.29	0.48
1:E:295:GLN:OE1	1:E:454:PRO:HD2	2.14	0.48
1:E:612:VAL:HG13	1:E:614:GLU:N	2.25	0.48
1:E:852:GLN:HB3	1:E:880:TRP:CD2	2.48	0.48
1:A:295:GLN:OE1	1:A:454:PRO:HD2	2.14	0.48
1:A:659:TYR:HA	1:A:757:GLN:CG	2.44	0.48
1:A:661:LYS:CB	1:A:753:VAL:HG21	2.44	0.48
1:A:673:THR:HG22	1:A:695:TYR:HD2	1.79	0.48
1:A:693:ALA:HB3	1:A:694:PRO:HD3	1.96	0.48
1:A:1489:ILE:HG22	1:A:1490:ASN:N	2.28	0.48
1:A:1500:ILE:HG13	1:A:1532:PHE:CZ	2.49	0.48
1:B:291:GLU:HG3	1:B:292:GLU:N	2.29	0.48
1:B:402:ILE:CG2	1:B:428:VAL:HG13	2.42	0.48
1:B:1326:ASP:HB2	1:B:1563:ARG:HB2	1.95	0.48
1:C:873:SER:O	1:C:877:ILE:HG13	2.14	0.48
1:C:1437:TRP:HZ3	1:C:1439:PRO:HG3	1.76	0.48
1:C:1441:ALA:O	1:C:1442:LYS:HB2	2.13	0.48
1:C:1500:ILE:CD1	1:C:1532:PHE:CE2	2.97	0.48
1:D:341:MET:CB	1:D:422:ALA:HB1	2.43	0.48
1:D:601:THR:HG22	1:D:604:GLU:HG3	1.96	0.48
1:D:1469:GLN:HG3	1:D:1470:TYR:H	1.78	0.48
1:E:456:ILE:HG23	1:E:457:LEU:N	2.29	0.48
1:E:600:LEU:HA	1:E:604:GLU:OE1	2.14	0.48
1:E:661:LYS:CB	1:E:753:VAL:HG21	2.44	0.48
1:E:699:THR:HG23	1:E:700:LEU:N	2.29	0.48
1:E:1550:SER:HB3	1:E:1571:SER:OG	2.13	0.48
1:A:296:PHE:CZ	1:A:444:ILE:HA	2.47	0.48
1:A:612:VAL:HG13	1:A:614:GLU:N	2.25	0.48
1:B:498:LEU:HD11	1:B:593:LEU:CD2	2.36	0.48
1:B:661:LYS:CB	1:B:753:VAL:HG21	2.44	0.48
1:B:1550:SER:HB3	1:B:1571:SER:OG	2.13	0.48
1:C:227:ILE:HA	1:C:230:LEU:HD13	1.96	0.48
1:C:319:ASN:HD21	1:C:322:ASP:CG	2.18	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:497:ILE:HD12	1:C:503:ILE:HD13	1.95	0.48
1:C:673:THR:HG22	1:C:695:TYR:HD2	1.79	0.48
1:C:1407:VAL:HG13	1:C:1423:LEU:HB2	1.94	0.48
1:C:1489:ILE:HG22	1:C:1490:ASN:N	2.28	0.48
1:D:227:ILE:CA	1:D:230:LEU:HD13	2.43	0.48
1:D:230:LEU:HG	1:D:856:HIS:CG	2.48	0.48
1:D:291:GLU:HG3	1:D:292:GLU:N	2.29	0.48
1:D:659:TYR:HB2	1:D:754:GLN:HG2	1.96	0.48
1:D:1340:ILE:N	1:D:1340:ILE:HD12	2.29	0.48
1:E:319:ASN:HD21	1:E:322:ASP:CG	2.18	0.48
1:E:601:THR:HG22	1:E:604:GLU:HG3	1.96	0.48
1:E:1561:ASP:OD1	1:E:1563:ARG:HD2	2.13	0.48
1:A:319:ASN:HD21	1:A:322:ASP:CG	2.18	0.48
1:A:348:PHE:CD1	1:A:354:ARG:HB2	2.48	0.48
1:A:363:TYR:HB3	1:A:412:ARG:HD2	1.96	0.48
1:B:319:ASN:HD21	1:B:322:ASP:CG	2.18	0.48
1:B:600:LEU:HA	1:B:604:GLU:OE1	2.14	0.48
1:B:659:TYR:HB2	1:B:754:GLN:HG2	1.96	0.48
1:B:1407:VAL:HG13	1:B:1423:LEU:HB2	1.94	0.48
1:B:1491:THR:HG22	1:B:1491:THR:O	2.13	0.48
1:C:589:TYR:CZ	1:C:593:LEU:CD1	2.94	0.48
1:C:659:TYR:HA	1:C:757:GLN:CG	2.44	0.48
1:C:661:LYS:CB	1:C:753:VAL:HG21	2.44	0.48
1:C:807:PHE:HD1	1:C:871:TRP:CZ2	2.32	0.48
1:C:1564:LYS:HE2	1:C:1567:TYR:HB3	1.96	0.48
1:D:650:GLN:O	1:D:653:ILE:HG12	2.14	0.48
1:D:659:TYR:HA	1:D:757:GLN:CG	2.44	0.48
1:D:699:THR:HG23	1:D:700:LEU:N	2.29	0.48
1:D:1500:ILE:HG13	1:D:1532:PHE:CZ	2.49	0.48
1:E:230:LEU:HD23	1:E:856:HIS:ND1	2.28	0.48
1:E:264:TYR:HD2	1:E:438:LEU:HD12	1.79	0.48
1:E:567:LYS:N	1:E:567:LYS:HD2	2.29	0.48
1:E:659:TYR:HA	1:E:757:GLN:CG	2.44	0.48
1:E:825:PHE:CZ	1:E:871:TRP:HB2	2.46	0.48
1:A:653:ILE:HG13	1:A:764:MET:CE	2.44	0.47
1:A:653:ILE:CD1	1:A:764:MET:HE1	2.44	0.47
1:A:807:PHE:CD1	1:A:871:TRP:CZ2	3.01	0.47
1:A:831:THR:HG22	1:A:832:ALA:H	1.78	0.47
1:B:223:ALA:O	1:B:225:PRO:HD3	2.14	0.47
1:B:227:ILE:HA	1:B:230:LEU:HD13	1.96	0.47
1:B:295:GLN:OE1	1:B:454:PRO:HD2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:497:ILE:HD12	1:B:503:ILE:HD13	1.95	0.47
1:B:515:PHE:CE1	1:B:585:LEU:CD1	2.94	0.47
1:B:659:TYR:HA	1:B:757:GLN:CG	2.44	0.47
1:B:856:HIS:ND1	1:B:880:TRP:HZ2	2.12	0.47
1:B:1564:LYS:HE2	1:B:1567:TYR:HB3	1.96	0.47
1:C:348:PHE:CD1	1:C:354:ARG:HB2	2.48	0.47
1:C:1340:ILE:N	1:C:1340:ILE:HD12	2.29	0.47
1:D:348:PHE:CD1	1:D:354:ARG:HB2	2.48	0.47
1:D:661:LYS:CB	1:D:753:VAL:HG21	2.44	0.47
1:D:673:THR:HG22	1:D:695:TYR:HD2	1.79	0.47
1:D:873:SER:O	1:D:877:ILE:HG13	2.14	0.47
1:E:227:ILE:HA	1:E:230:LEU:HD13	1.96	0.47
1:E:589:TYR:CZ	1:E:593:LEU:CD1	2.94	0.47
1:E:722:ASP:H	1:E:754:GLN:NE2	2.11	0.47
1:A:856:HIS:ND1	1:A:880:TRP:HZ2	2.12	0.47
1:A:1474:THR:HG22	1:A:1480:ALA:CA	2.42	0.47
1:B:604:GLU:CG	1:B:649:PHE:CE1	2.95	0.47
1:B:643:THR:HG23	1:B:644:GLN:N	2.30	0.47
1:B:650:GLN:O	1:B:653:ILE:HG12	2.14	0.47
1:B:1387:VAL:HG22	1:B:1487:VAL:CG2	2.43	0.47
1:C:291:GLU:HG3	1:C:292:GLU:N	2.29	0.47
1:C:456:ILE:HG23	1:C:457:LEU:N	2.29	0.47
1:C:856:HIS:ND1	1:C:880:TRP:HZ2	2.12	0.47
1:D:230:LEU:HD23	1:D:856:HIS:ND1	2.28	0.47
1:D:319:ASN:HD21	1:D:322:ASP:CG	2.18	0.47
1:D:566:LEU:O	1:D:569:THR:HB	2.14	0.47
1:D:1326:ASP:HB2	1:D:1563:ARG:HB2	1.95	0.47
1:D:1577:LYS:HG2	1:D:1578:VAL:N	2.29	0.47
1:E:653:ILE:HG13	1:E:764:MET:CE	2.44	0.47
1:E:670:LEU:HD12	1:E:699:THR:OG1	2.14	0.47
1:E:693:ALA:HB3	1:E:694:PRO:HD3	1.96	0.47
1:E:1316:VAL:CG2	1:E:1572:ILE:HG23	2.44	0.47
1:E:1564:LYS:HE2	1:E:1567:TYR:HB3	1.96	0.47
1:A:456:ILE:HG23	1:A:457:LEU:N	2.29	0.47
1:A:540:SER:HB3	1:A:563:PHE:CB	2.44	0.47
1:A:790:THR:O	1:A:790:THR:HG22	2.13	0.47
1:A:873:SER:O	1:A:877:ILE:HG13	2.14	0.47
1:A:1498:VAL:HG23	1:A:1557:ALA:HA	1.97	0.47
1:A:1577:LYS:HG2	1:A:1578:VAL:N	2.29	0.47
1:B:612:VAL:HG13	1:B:614:GLU:HG2	1.96	0.47
1:B:1351:ILE:HG23	1:B:1351:ILE:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:365:ALA:HB1	1:C:413:VAL:O	2.13	0.47
1:C:653:ILE:HG13	1:C:764:MET:CE	2.44	0.47
1:D:326:LYS:HE3	1:D:430:GLU:HB3	1.96	0.47
1:D:696:ILE:HG13	1:D:697:ALA:N	2.29	0.47
1:D:807:PHE:HD1	1:D:871:TRP:CZ2	2.32	0.47
1:E:343:VAL:HG21	1:E:410:LEU:HD13	1.94	0.47
1:E:873:SER:O	1:E:877:ILE:HG13	2.14	0.47
1:A:233:GLN:HA	1:A:236:LEU:CG	2.45	0.47
1:B:233:GLN:HA	1:B:236:LEU:CG	2.45	0.47
1:B:273:PRO:HG2	1:B:434:TYR:N	2.30	0.47
1:B:295:GLN:HB3	1:B:454:PRO:CG	2.43	0.47
1:B:342:ASP:CB	1:B:358:LYS:HG2	2.39	0.47
1:B:1489:ILE:HG22	1:B:1490:ASN:N	2.28	0.47
1:C:220:GLN:HG2	1:C:886:GLN:CG	2.45	0.47
1:C:233:GLN:HA	1:C:236:LEU:HG	1.97	0.47
1:C:790:THR:O	1:C:790:THR:HG22	2.13	0.47
1:C:1351:ILE:HG23	1:C:1351:ILE:O	2.13	0.47
1:C:1408:TYR:CD2	1:C:1467:LEU:HD12	2.50	0.47
1:D:227:ILE:HA	1:D:230:LEU:HD13	1.95	0.47
1:D:363:TYR:CZ	1:D:414:LEU:CD2	2.95	0.47
1:D:405:PRO:HB3	1:D:427:THR:HA	1.96	0.47
1:D:790:THR:O	1:D:790:THR:HG22	2.13	0.47
1:D:1312:ILE:HG13	1:D:1313:PRO:HD2	1.96	0.47
1:D:1316:VAL:CG2	1:D:1572:ILE:HG23	2.44	0.47
1:D:1441:ALA:O	1:D:1442:LYS:HB2	2.13	0.47
1:E:273:PRO:HG2	1:E:434:TYR:N	2.30	0.47
1:E:291:GLU:HG3	1:E:292:GLU:N	2.29	0.47
1:E:714:TRP:HE1	1:E:718:LEU:HD21	1.78	0.47
1:E:1312:ILE:HD13	1:E:1574:VAL:HG13	1.96	0.47
1:E:1340:ILE:N	1:E:1340:ILE:HD12	2.29	0.47
1:A:220:GLN:HG2	1:A:886:GLN:CG	2.45	0.47
1:A:378:LEU:HD13	1:A:395:ILE:CD1	2.42	0.47
1:A:643:THR:HG23	1:A:644:GLN:N	2.30	0.47
1:A:1437:TRP:HZ3	1:A:1439:PRO:HG3	1.76	0.47
1:B:220:GLN:HG2	1:B:886:GLN:CG	2.45	0.47
1:B:233:GLN:HA	1:B:236:LEU:HG	1.97	0.47
1:B:303:PHE:CD2	1:B:304:GLY:N	2.83	0.47
1:B:515:PHE:HZ	1:B:528:TYR:CE2	2.33	0.47
1:B:566:LEU:O	1:B:569:THR:HB	2.14	0.47
1:B:693:ALA:HB3	1:B:694:PRO:HD3	1.96	0.47
1:B:1408:TYR:CD2	1:B:1467:LEU:HD12	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1577:LYS:HG2	1:B:1578:VAL:N	2.29	0.47
1:C:295:GLN:CD	1:C:454:PRO:HD2	2.35	0.47
1:C:303:PHE:CD2	1:C:304:GLY:N	2.83	0.47
1:C:650:GLN:O	1:C:653:ILE:HG12	2.14	0.47
1:C:851:ILE:HG23	1:C:852:GLN:N	2.29	0.47
1:D:223:ALA:O	1:D:225:PRO:HD3	2.14	0.47
1:D:273:PRO:HG2	1:D:434:TYR:N	2.30	0.47
1:D:831:THR:HG22	1:D:832:ALA:H	1.78	0.47
1:D:1312:ILE:HD13	1:D:1574:VAL:HG13	1.96	0.47
1:D:1380:LYS:CG	1:D:1413:ASN:HD21	2.26	0.47
1:E:255:ILE:CD1	1:E:442:LYS:HZ1	2.27	0.47
1:E:1312:ILE:HG13	1:E:1313:PRO:HD2	1.96	0.47
1:E:1577:LYS:HG2	1:E:1578:VAL:N	2.29	0.47
1:A:612:VAL:HG13	1:A:614:GLU:HG2	1.96	0.47
1:A:650:GLN:O	1:A:653:ILE:HG12	2.14	0.47
1:B:295:GLN:CD	1:B:454:PRO:HD2	2.35	0.47
1:B:540:SER:HB3	1:B:563:PHE:CB	2.44	0.47
1:C:230:LEU:HG	1:C:856:HIS:CG	2.48	0.47
1:C:233:GLN:HA	1:C:236:LEU:CG	2.45	0.47
1:C:326:LYS:HE3	1:C:430:GLU:HB3	1.96	0.47
1:C:662:THR:HG22	1:C:663:LEU:N	2.30	0.47
1:C:696:ILE:HG13	1:C:697:ALA:N	2.29	0.47
1:D:220:GLN:HG2	1:D:886:GLN:CG	2.45	0.47
1:D:1408:TYR:CD2	1:D:1467:LEU:HD12	2.50	0.47
1:E:223:ALA:O	1:E:225:PRO:HD3	2.14	0.47
1:E:233:GLN:HA	1:E:236:LEU:CG	2.45	0.47
1:E:370:ILE:CD1	1:E:410:LEU:HD23	2.45	0.47
1:E:515:PHE:CE1	1:E:585:LEU:CD1	2.94	0.47
1:E:650:GLN:O	1:E:653:ILE:HG12	2.14	0.47
1:E:1408:TYR:CD2	1:E:1467:LEU:HD12	2.50	0.47
1:A:264:TYR:HD2	1:A:438:LEU:HD12	1.79	0.47
1:A:273:PRO:HG2	1:A:434:TYR:N	2.30	0.47
1:A:303:PHE:CD2	1:A:304:GLY:N	2.83	0.47
1:A:326:LYS:HE3	1:A:430:GLU:HB3	1.96	0.47
1:A:405:PRO:HB3	1:A:427:THR:HA	1.96	0.47
1:A:696:ILE:HG13	1:A:697:ALA:N	2.29	0.47
1:A:714:TRP:HE1	1:A:718:LEU:HD21	1.78	0.47
1:A:854:GLN:HG2	1:A:862:VAL:HG12	1.97	0.47
1:A:1408:TYR:CD2	1:A:1467:LEU:HD12	2.50	0.47
1:B:230:LEU:CG	1:B:856:HIS:CG	2.98	0.47
1:B:326:LYS:HE3	1:B:430:GLU:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:456:ILE:HG23	1:B:457:LEU:N	2.29	0.47
1:B:653:ILE:HG13	1:B:764:MET:CE	2.44	0.47
1:B:696:ILE:HG13	1:B:697:ALA:N	2.29	0.47
1:B:873:SER:O	1:B:877:ILE:HG13	2.14	0.47
1:B:887:LEU:HD12	1:B:887:LEU:N	2.30	0.47
1:B:1498:VAL:HG23	1:B:1557:ALA:HA	1.97	0.47
1:B:1500:ILE:HG13	1:B:1532:PHE:CZ	2.49	0.47
1:C:363:TYR:HB3	1:C:412:ARG:HD2	1.95	0.47
1:C:370:ILE:CD1	1:C:410:LEU:HD23	2.45	0.47
1:C:612:VAL:HG13	1:C:614:GLU:HG2	1.96	0.47
1:C:670:LEU:HD12	1:C:699:THR:OG1	2.14	0.47
1:C:1469:GLN:HG3	1:C:1470:TYR:H	1.78	0.47
1:C:1491:THR:O	1:C:1491:THR:HG22	2.13	0.47
1:C:1498:VAL:HG23	1:C:1557:ALA:HA	1.97	0.47
1:C:1500:ILE:HG13	1:C:1532:PHE:CZ	2.49	0.47
1:C:1502:VAL:HG12	1:C:1503:LYS:N	2.30	0.47
1:C:1577:LYS:HG2	1:C:1578:VAL:N	2.29	0.47
1:D:295:GLN:CD	1:D:454:PRO:HD2	2.35	0.47
1:D:522:PRO:HB2	1:D:553:ARG:HG2	1.96	0.47
1:D:600:LEU:HA	1:D:604:GLU:OE1	2.14	0.47
1:D:653:ILE:HG13	1:D:764:MET:CE	2.44	0.47
1:D:662:THR:HG22	1:D:663:LEU:N	2.30	0.47
1:D:693:ALA:HB3	1:D:694:PRO:HD3	1.96	0.47
1:D:887:LEU:HD12	1:D:887:LEU:N	2.30	0.47
1:D:1387:VAL:HG22	1:D:1487:VAL:CG2	2.43	0.47
1:D:1575:THR:HG22	1:D:1576:LEU:N	2.28	0.47
1:E:230:LEU:HG	1:E:856:HIS:CG	2.48	0.47
1:E:259:ASN:CB	1:E:263:LEU:HD13	2.39	0.47
1:E:295:GLN:CD	1:E:454:PRO:HD2	2.35	0.47
1:E:778:LEU:HD23	1:E:778:LEU:C	2.35	0.47
1:E:1498:VAL:HG23	1:E:1557:ALA:HA	1.97	0.47
1:E:1500:ILE:HG13	1:E:1532:PHE:CZ	2.49	0.47
1:A:1340:ILE:N	1:A:1340:ILE:HD12	2.29	0.47
1:A:1575:THR:HG22	1:A:1576:LEU:N	2.29	0.47
1:B:610:ILE:CG1	1:B:652:PHE:CE1	2.94	0.47
1:C:515:PHE:HZ	1:C:528:TYR:CE2	2.33	0.47
1:C:522:PRO:HB2	1:C:553:ARG:HG2	1.96	0.47
1:C:643:THR:HG23	1:C:644:GLN:N	2.30	0.47
1:C:699:THR:HG23	1:C:700:LEU:N	2.29	0.47
1:C:1575:THR:HG22	1:C:1576:LEU:N	2.28	0.47
1:D:230:LEU:CG	1:D:856:HIS:CG	2.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:341:MET:HE2	1:D:422:ALA:CB	2.35	0.47
1:D:854:GLN:HG2	1:D:862:VAL:HG12	1.97	0.47
1:D:1351:ILE:HG23	1:D:1351:ILE:O	2.13	0.47
1:D:1489:ILE:HG22	1:D:1490:ASN:N	2.28	0.47
1:E:363:TYR:CE2	1:E:414:LEU:CB	2.98	0.47
1:E:714:TRP:HZ3	1:E:776:PHE:CE1	2.29	0.47
1:E:807:PHE:HD1	1:E:871:TRP:CZ2	2.32	0.47
1:E:1437:TRP:HZ3	1:E:1439:PRO:HG3	1.76	0.47
1:A:230:LEU:CG	1:A:856:HIS:CG	2.98	0.47
1:A:295:GLN:CD	1:A:454:PRO:HD2	2.35	0.47
1:A:1326:ASP:HB2	1:A:1563:ARG:HB2	1.95	0.47
1:A:1351:ILE:HG23	1:A:1351:ILE:O	2.13	0.47
1:B:230:LEU:CD2	1:B:880:TRP:CZ2	2.94	0.47
1:B:296:PHE:CZ	1:B:444:ILE:HA	2.47	0.47
1:B:851:ILE:HG23	1:B:852:GLN:N	2.29	0.47
1:C:223:ALA:O	1:C:225:PRO:HD3	2.14	0.47
1:C:515:PHE:CD1	1:C:519:PHE:CE1	3.03	0.47
1:C:887:LEU:N	1:C:887:LEU:HD12	2.30	0.47
1:D:230:LEU:CD2	1:D:880:TRP:CZ2	2.94	0.47
1:D:233:GLN:HA	1:D:236:LEU:HG	1.97	0.47
1:D:251:LEU:CD2	1:D:470:ILE:HG21	2.22	0.47
1:D:303:PHE:CD2	1:D:304:GLY:N	2.83	0.47
1:D:378:LEU:HD13	1:D:395:ILE:CD1	2.42	0.47
1:D:612:VAL:HG13	1:D:614:GLU:N	2.25	0.47
1:D:778:LEU:HD23	1:D:778:LEU:C	2.35	0.47
1:E:326:LYS:HE3	1:E:430:GLU:HB3	1.96	0.47
1:E:540:SER:N	1:E:563:PHE:CD1	2.83	0.47
1:E:673:THR:HG22	1:E:695:TYR:HD2	1.79	0.47
1:E:856:HIS:ND1	1:E:880:TRP:HZ2	2.12	0.47
1:A:227:ILE:HA	1:A:230:LEU:HD13	1.95	0.47
1:A:670:LEU:HD12	1:A:699:THR:OG1	2.14	0.47
1:A:887:LEU:HD12	1:A:887:LEU:N	2.30	0.47
1:B:405:PRO:HB3	1:B:427:THR:HA	1.96	0.47
1:B:612:VAL:HG13	1:B:614:GLU:N	2.25	0.47
1:C:499:CYS:O	1:C:500:ASN:HB3	2.15	0.47
1:C:659:TYR:HB2	1:C:754:GLN:HG2	1.96	0.47
1:D:612:VAL:HG13	1:D:614:GLU:HG2	1.96	0.47
1:D:670:LEU:HD12	1:D:699:THR:OG1	2.14	0.47
1:D:856:HIS:ND1	1:D:880:TRP:HZ2	2.12	0.47
1:E:297:ILE:HG22	1:E:440:LEU:CD2	2.39	0.47
1:E:566:LEU:O	1:E:569:THR:HB	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1502:VAL:HG12	1:E:1503:LYS:N	2.30	0.47
1:A:330:ILE:HD13	1:A:428:VAL:HG23	1.97	0.46
1:A:363:TYR:CE2	1:A:414:LEU:CB	2.98	0.46
1:A:370:ILE:CD1	1:A:410:LEU:HD23	2.45	0.46
1:A:515:PHE:HZ	1:A:528:TYR:CE2	2.33	0.46
1:A:567:LYS:HD2	1:A:567:LYS:N	2.29	0.46
1:A:856:HIS:CE1	1:A:880:TRP:CH2	3.04	0.46
1:A:881:VAL:O	1:A:885:GLN:HG2	2.15	0.46
1:B:670:LEU:HD12	1:B:699:THR:OG1	2.14	0.46
1:B:673:THR:HG22	1:B:695:TYR:HD2	1.79	0.46
1:B:1340:ILE:N	1:B:1340:ILE:HD12	2.29	0.46
1:C:405:PRO:HB3	1:C:427:THR:HA	1.96	0.46
1:C:540:SER:N	1:C:563:PHE:CD1	2.83	0.46
1:C:854:GLN:HG2	1:C:862:VAL:HG12	1.97	0.46
1:C:859:LEU:HB2	1:C:860:PRO:HD3	1.97	0.46
1:D:264:TYR:HD2	1:D:438:LEU:HD12	1.79	0.46
1:D:363:TYR:CE2	1:D:414:LEU:CB	2.98	0.46
1:D:370:ILE:CD1	1:D:410:LEU:HD23	2.45	0.46
1:D:1375:MET:HE3	1:D:1525:PHE:HE1	1.79	0.46
1:D:1564:LYS:HE2	1:D:1567:TYR:HB3	1.96	0.46
1:E:659:TYR:HB2	1:E:754:GLN:HG2	1.96	0.46
1:E:881:VAL:O	1:E:885:GLN:HG2	2.15	0.46
1:E:1481:THR:HG22	1:E:1482:ASP:N	2.31	0.46
1:A:342:ASP:HB2	1:A:358:LYS:HG3	1.96	0.46
1:A:714:TRP:HZ3	1:A:776:PHE:CE1	2.29	0.46
1:A:1481:THR:HG22	1:A:1482:ASP:N	2.30	0.46
1:B:303:PHE:HD2	1:B:305:GLN:H	1.63	0.46
1:B:363:TYR:CE2	1:B:414:LEU:CB	2.98	0.46
1:B:363:TYR:HB3	1:B:412:ARG:HD2	1.96	0.46
1:B:714:TRP:HE3	1:B:776:PHE:CZ	2.34	0.46
1:B:1358:ARG:HD2	1:B:1527:GLU:HG3	1.98	0.46
1:C:230:LEU:CG	1:C:856:HIS:CG	2.98	0.46
1:C:274:ALA:CB	1:C:1519:ILE:HD11	2.26	0.46
1:C:363:TYR:CE2	1:C:414:LEU:CB	2.98	0.46
1:C:1398:SER:HB3	1:C:1480:ALA:HB3	1.97	0.46
1:D:515:PHE:CD1	1:D:519:PHE:CE1	3.03	0.46
1:E:1375:MET:HE3	1:E:1525:PHE:HE1	1.80	0.46
1:A:230:LEU:HD23	1:A:856:HIS:CD2	2.51	0.46
1:A:540:SER:N	1:A:563:PHE:CD1	2.83	0.46
1:A:689:LEU:HD13	1:A:713:LEU:CD2	2.46	0.46
1:A:1312:ILE:HG13	1:A:1313:PRO:HD2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1398:SER:HB3	1:A:1480:ALA:HB3	1.98	0.46
1:B:291:GLU:O	1:B:295:GLN:HG3	2.16	0.46
1:B:330:ILE:HD13	1:B:428:VAL:HG23	1.97	0.46
1:B:370:ILE:CD1	1:B:410:LEU:HD23	2.45	0.46
1:B:601:THR:HG22	1:B:604:GLU:HG3	1.96	0.46
1:B:1420:GLY:HA3	1:B:1462:ASN:ND2	2.31	0.46
1:B:1481:THR:HG22	1:B:1482:ASP:N	2.30	0.46
1:C:1358:ARG:HD2	1:C:1527:GLU:HG3	1.98	0.46
1:D:230:LEU:HD23	1:D:856:HIS:CD2	2.51	0.46
1:D:237:LEU:HG	1:D:479:PHE:CB	2.32	0.46
1:D:355:LEU:HD13	1:D:355:LEU:C	2.36	0.46
1:E:230:LEU:CG	1:E:856:HIS:CG	2.98	0.46
1:E:233:GLN:HA	1:E:236:LEU:HG	1.97	0.46
1:E:273:PRO:HD3	1:E:434:TYR:CE1	2.51	0.46
1:E:540:SER:HB3	1:E:563:PHE:CB	2.44	0.46
1:E:856:HIS:CE1	1:E:880:TRP:CH2	3.03	0.46
1:E:1420:GLY:HA3	1:E:1462:ASN:ND2	2.31	0.46
1:A:233:GLN:HA	1:A:236:LEU:HG	1.97	0.46
1:A:499:CYS:O	1:A:500:ASN:HB3	2.16	0.46
1:A:661:LYS:CA	1:A:753:VAL:HG11	2.44	0.46
1:B:856:HIS:CE1	1:B:880:TRP:CH2	3.03	0.46
1:B:881:VAL:O	1:B:885:GLN:HG2	2.15	0.46
1:B:1312:ILE:HG13	1:B:1313:PRO:HD2	1.96	0.46
1:B:1398:SER:HB3	1:B:1480:ALA:HB3	1.97	0.46
1:B:1502:VAL:HG12	1:B:1503:LYS:N	2.30	0.46
1:C:1312:ILE:HG13	1:C:1313:PRO:HD2	1.96	0.46
1:C:1316:VAL:CG2	1:C:1572:ILE:HG23	2.44	0.46
1:D:273:PRO:HD3	1:D:434:TYR:CE1	2.51	0.46
1:D:337:ASN:O	1:D:338:ALA:HB3	2.16	0.46
1:D:499:CYS:O	1:D:500:ASN:HB3	2.15	0.46
1:D:521:THR:CB	1:D:522:PRO:HD3	2.29	0.46
1:D:540:SER:N	1:D:563:PHE:CD1	2.83	0.46
1:D:1358:ARG:HD2	1:D:1527:GLU:HG3	1.98	0.46
1:D:1398:SER:HB3	1:D:1480:ALA:HB3	1.97	0.46
1:E:303:PHE:CD2	1:E:304:GLY:N	2.83	0.46
1:E:337:ASN:O	1:E:338:ALA:HB3	2.16	0.46
1:E:405:PRO:HB3	1:E:427:THR:HA	1.96	0.46
1:E:854:GLN:HG2	1:E:862:VAL:HG12	1.97	0.46
1:A:273:PRO:HD3	1:A:434:TYR:CE1	2.51	0.46
1:A:515:PHE:CD1	1:A:519:PHE:CE1	3.03	0.46
1:A:601:THR:HG22	1:A:604:GLU:HG3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:691:VAL:HG13	1:A:692:MET:N	2.31	0.46
1:A:1375:MET:HE2	1:A:1525:PHE:CE1	2.51	0.46
1:B:778:LEU:HD23	1:B:778:LEU:C	2.35	0.46
1:C:273:PRO:HG2	1:C:434:TYR:N	2.30	0.46
1:C:291:GLU:O	1:C:295:GLN:HG3	2.16	0.46
1:D:233:GLN:HA	1:D:236:LEU:CG	2.45	0.46
1:D:1327:TYR:HE2	1:D:1563:ARG:HB3	1.74	0.46
1:D:1481:THR:HG22	1:D:1482:ASP:N	2.30	0.46
1:D:1502:VAL:HG12	1:D:1503:LYS:N	2.29	0.46
1:E:355:LEU:C	1:E:355:LEU:HD13	2.36	0.46
1:E:689:LEU:HD13	1:E:713:LEU:CD2	2.46	0.46
1:E:883:VAL:HG13	1:E:884:ALA:N	2.31	0.46
1:E:887:LEU:N	1:E:887:LEU:HD12	2.30	0.46
1:E:1468:LYS:HZ1	1:E:1486:PRO:HB2	1.80	0.46
1:A:662:THR:HG22	1:A:663:LEU:N	2.30	0.46
1:A:1316:VAL:HG11	1:A:1573:PRO:CD	2.26	0.46
1:A:1360:ILE:HD11	1:A:1527:GLU:CG	2.38	0.46
1:B:263:LEU:CB	1:B:438:LEU:CD2	2.94	0.46
1:B:355:LEU:HD13	1:B:355:LEU:C	2.36	0.46
1:B:522:PRO:HB2	1:B:553:ARG:HG2	1.96	0.46
1:C:273:PRO:HD3	1:C:434:TYR:CE1	2.51	0.46
1:C:1360:ILE:HD11	1:C:1527:GLU:CG	2.38	0.46
1:D:330:ILE:HD13	1:D:428:VAL:HG23	1.97	0.46
1:D:881:VAL:O	1:D:885:GLN:HG2	2.15	0.46
1:D:1498:VAL:HG23	1:D:1557:ALA:HA	1.97	0.46
1:E:220:GLN:HG2	1:E:886:GLN:CG	2.45	0.46
1:E:612:VAL:HG13	1:E:614:GLU:HG2	1.96	0.46
1:E:696:ILE:HG13	1:E:697:ALA:N	2.29	0.46
1:E:733:TRP:CH2	1:E:738:TYR:HB2	2.51	0.46
1:A:310:ASN:HD21	1:A:455:THR:HB	1.81	0.46
1:A:454:PRO:O	1:A:458:GLU:HG3	2.16	0.46
1:A:522:PRO:HB2	1:A:553:ARG:HG2	1.96	0.46
1:A:778:LEU:HD23	1:A:778:LEU:C	2.35	0.46
1:A:1358:ARG:HD2	1:A:1527:GLU:HG3	1.98	0.46
1:A:1502:VAL:HG12	1:A:1503:LYS:N	2.29	0.46
1:B:230:LEU:HD23	1:B:856:HIS:CD2	2.51	0.46
1:B:337:ASN:O	1:B:338:ALA:HB3	2.16	0.46
1:B:355:LEU:HD13	1:B:356:ASP:N	2.31	0.46
1:C:296:PHE:CZ	1:C:447:SER:CB	2.95	0.46
1:C:540:SER:HB3	1:C:563:PHE:CB	2.44	0.46
1:C:601:THR:HG22	1:C:604:GLU:HG3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1420:GLY:HA3	1:C:1462:ASN:ND2	2.31	0.46
1:D:348:PHE:HE1	1:D:354:ARG:HH11	1.64	0.46
1:D:524:LEU:CD1	1:D:550:ILE:CD1	2.94	0.46
1:D:653:ILE:CD1	1:D:764:MET:HE1	2.45	0.46
1:D:714:TRP:HE3	1:D:776:PHE:CZ	2.34	0.46
1:D:733:TRP:CH2	1:D:738:TYR:HB2	2.51	0.46
1:E:464:VAL:CG1	1:E:477:LYS:CD	2.94	0.46
1:E:524:LEU:CD1	1:E:550:ILE:CD1	2.94	0.46
1:A:263:LEU:CB	1:A:438:LEU:CD2	2.94	0.46
1:A:1316:VAL:CG2	1:A:1572:ILE:HG23	2.44	0.46
1:A:1564:LYS:HE2	1:A:1567:TYR:HB3	1.96	0.46
1:B:310:ASN:HD21	1:B:455:THR:HB	1.81	0.46
1:B:662:THR:HG22	1:B:663:LEU:N	2.30	0.46
1:B:714:TRP:CD2	1:B:762:LEU:CD2	2.93	0.46
1:B:854:GLN:HG2	1:B:862:VAL:HG12	1.97	0.46
1:B:1324:TRP:O	1:B:1566:GLY:HA2	2.16	0.46
1:C:355:LEU:HD13	1:C:356:ASP:N	2.31	0.46
1:C:1557:ALA:O	1:C:1564:LYS:HG3	2.16	0.46
1:D:355:LEU:HD13	1:D:356:ASP:N	2.31	0.46
1:D:515:PHE:HZ	1:D:528:TYR:CE2	2.33	0.46
1:D:1577:LYS:HG2	1:D:1578:VAL:H	1.81	0.46
1:E:515:PHE:CD1	1:E:519:PHE:CE1	3.03	0.46
1:E:662:THR:HG22	1:E:663:LEU:N	2.30	0.46
1:E:691:VAL:HG13	1:E:692:MET:N	2.31	0.46
1:E:1324:TRP:O	1:E:1566:GLY:HA2	2.16	0.46
1:E:1358:ARG:HD2	1:E:1527:GLU:HG3	1.98	0.46
1:A:337:ASN:O	1:A:338:ALA:HB3	2.16	0.46
1:A:440:LEU:CD1	1:A:444:ILE:CD1	2.94	0.46
1:A:462:ARG:HD2	1:A:467:GLN:HG3	1.98	0.46
1:A:464:VAL:CG1	1:A:477:LYS:CD	2.94	0.46
1:A:515:PHE:CE1	1:A:585:LEU:CD1	2.94	0.46
1:A:524:LEU:CD1	1:A:550:ILE:CD1	2.94	0.46
1:A:589:TYR:CZ	1:A:593:LEU:CD1	2.94	0.46
1:A:859:LEU:HB2	1:A:860:PRO:HD3	1.97	0.46
1:A:1324:TRP:O	1:A:1566:GLY:HA2	2.16	0.46
1:B:515:PHE:CD1	1:B:519:PHE:CE1	3.03	0.46
1:B:540:SER:N	1:B:563:PHE:CD1	2.83	0.46
1:B:1316:VAL:CG2	1:B:1572:ILE:HG23	2.44	0.46
1:C:524:LEU:CD1	1:C:550:ILE:CD1	2.94	0.46
1:C:689:LEU:HD13	1:C:713:LEU:CD2	2.46	0.46
1:D:856:HIS:CE1	1:D:880:TRP:CH2	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1324:TRP:O	1:D:1566:GLY:HA2	2.16	0.46
1:D:1375:MET:HE3	1:D:1525:PHE:CE1	2.50	0.46
1:E:330:ILE:HD13	1:E:428:VAL:HG23	1.97	0.46
1:E:355:LEU:HD13	1:E:356:ASP:N	2.31	0.46
1:E:440:LEU:CD1	1:E:444:ILE:CD1	2.94	0.46
1:E:499:CYS:O	1:E:500:ASN:HB3	2.15	0.46
1:E:522:PRO:HB2	1:E:553:ARG:HG2	1.96	0.46
1:E:643:THR:HG23	1:E:644:GLN:N	2.30	0.46
1:E:666:GLU:O	1:E:670:LEU:HD12	2.15	0.46
1:A:355:LEU:HD13	1:A:355:LEU:C	2.36	0.46
1:A:733:TRP:CH2	1:A:738:TYR:HB2	2.51	0.46
1:B:341:MET:HE3	1:B:410:LEU:HB2	1.89	0.46
1:B:1577:LYS:HG2	1:B:1578:VAL:H	1.81	0.46
1:C:230:LEU:HD23	1:C:856:HIS:CD2	2.51	0.46
1:C:337:ASN:O	1:C:338:ALA:HB3	2.16	0.46
1:C:600:LEU:CG	1:C:648:VAL:HG21	2.46	0.46
1:C:693:ALA:HB3	1:C:694:PRO:HD3	1.96	0.46
1:C:778:LEU:HD23	1:C:778:LEU:C	2.35	0.46
1:C:881:VAL:O	1:C:885:GLN:HG2	2.15	0.46
1:D:275:SER:HA	1:D:278:MET:HE2	1.96	0.46
1:D:464:VAL:CG1	1:D:477:LYS:CD	2.94	0.46
1:D:643:THR:HG23	1:D:644:GLN:N	2.30	0.46
1:D:666:GLU:O	1:D:670:LEU:HD12	2.15	0.46
1:E:230:LEU:HD23	1:E:856:HIS:CD2	2.51	0.46
1:E:397:LEU:N	1:E:397:LEU:HD12	2.32	0.46
1:E:1557:ALA:O	1:E:1564:LYS:HG3	2.16	0.46
1:A:230:LEU:CD2	1:A:856:HIS:CG	2.99	0.45
1:A:355:LEU:HD13	1:A:356:ASP:N	2.31	0.45
1:A:856:HIS:HD1	1:A:880:TRP:HZ2	1.64	0.45
1:A:1372:CYS:O	1:A:1375:MET:HG3	2.16	0.45
1:A:1387:VAL:CG2	1:A:1487:VAL:CG2	2.95	0.45
1:B:454:PRO:O	1:B:458:GLU:HG3	2.16	0.45
1:B:714:TRP:HZ3	1:B:776:PHE:CE1	2.29	0.45
1:B:807:PHE:O	1:B:811:VAL:HG23	2.16	0.45
1:B:883:VAL:HG13	1:B:884:ALA:N	2.31	0.45
1:C:230:LEU:CD2	1:C:856:HIS:CG	2.99	0.45
1:C:355:LEU:HD13	1:C:355:LEU:C	2.36	0.45
1:C:396:THR:C	1:C:397:LEU:HD12	2.37	0.45
1:C:1372:CYS:O	1:C:1375:MET:HG3	2.17	0.45
1:D:303:PHE:HD2	1:D:305:GLN:H	1.63	0.45
1:D:589:TYR:CZ	1:D:593:LEU:CD1	2.94	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:730:PHE:CZ	1:D:734:LEU:HD11	2.51	0.45
1:D:733:TRP:HZ3	1:D:734:LEU:CD2	2.29	0.45
1:E:291:GLU:O	1:E:295:GLN:HG3	2.16	0.45
1:E:396:THR:C	1:E:397:LEU:HD12	2.37	0.45
1:E:414:LEU:HD11	1:E:417:GLY:N	2.31	0.45
1:E:1398:SER:HB3	1:E:1480:ALA:HB3	1.97	0.45
1:A:230:LEU:CD2	1:A:880:TRP:CZ2	2.94	0.45
1:A:264:TYR:N	1:A:438:LEU:HD21	2.31	0.45
1:A:835:LEU:HD23	1:A:835:LEU:C	2.37	0.45
1:A:835:LEU:CD2	1:A:839:MET:CG	2.95	0.45
1:A:883:VAL:HG13	1:A:884:ALA:N	2.31	0.45
1:B:247:LEU:HD23	1:B:247:LEU:C	2.37	0.45
1:B:341:MET:HE1	1:B:410:LEU:CB	2.30	0.45
1:B:414:LEU:HD11	1:B:417:GLY:N	2.31	0.45
1:B:499:CYS:O	1:B:500:ASN:HB3	2.16	0.45
1:B:524:LEU:CD1	1:B:550:ILE:CD1	2.94	0.45
1:B:524:LEU:CD1	1:B:550:ILE:CG1	2.95	0.45
1:B:691:VAL:HG13	1:B:692:MET:N	2.31	0.45
1:B:733:TRP:CH2	1:B:738:TYR:HB2	2.51	0.45
1:B:835:LEU:CD2	1:B:839:MET:CG	2.95	0.45
1:B:1310:TYR:CE1	1:B:1349:LEU:HD13	2.51	0.45
1:C:296:PHE:CZ	1:C:444:ILE:HA	2.47	0.45
1:C:330:ILE:HD13	1:C:428:VAL:HG23	1.97	0.45
1:C:714:TRP:HE3	1:C:776:PHE:CZ	2.34	0.45
1:C:856:HIS:CE1	1:C:880:TRP:CH2	3.03	0.45
1:C:883:VAL:HG13	1:C:884:ALA:N	2.31	0.45
1:C:1324:TRP:O	1:C:1566:GLY:HA2	2.16	0.45
1:D:1420:GLY:HA3	1:D:1462:ASN:ND2	2.31	0.45
1:D:1557:ALA:O	1:D:1564:LYS:HG3	2.16	0.45
1:E:230:LEU:CD2	1:E:856:HIS:CG	2.99	0.45
1:E:251:LEU:CD2	1:E:470:ILE:CD1	2.95	0.45
1:E:251:LEU:CD2	1:E:470:ILE:HG21	2.22	0.45
1:E:355:LEU:CD1	1:E:357:TYR:CD1	2.95	0.45
1:E:442:LYS:HD3	1:E:470:ILE:CD1	2.47	0.45
1:E:807:PHE:O	1:E:811:VAL:HG23	2.16	0.45
1:A:397:LEU:HD12	1:A:397:LEU:N	2.32	0.45
1:A:452:LEU:HD12	1:A:457:LEU:HD21	1.99	0.45
1:A:666:GLU:O	1:A:670:LEU:HD12	2.15	0.45
1:A:752:ILE:O	1:A:755:TYR:HB3	2.15	0.45
1:A:810:TRP:HZ2	1:A:835:LEU:CG	2.30	0.45
1:B:237:LEU:HG	1:B:479:PHE:CB	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:771:ILE:HA	1:B:808:ALA:HB1	1.98	0.45
1:B:795:ALA:HB3	1:B:800:SER:OG	2.17	0.45
1:B:856:HIS:HD1	1:B:880:TRP:HZ2	1.64	0.45
1:B:1385:PHE:HB3	1:B:1409:GLN:HA	1.99	0.45
1:B:1474:THR:HG22	1:B:1480:ALA:CA	2.42	0.45
1:C:247:LEU:HD23	1:C:247:LEU:C	2.37	0.45
1:C:414:LEU:HD11	1:C:417:GLY:N	2.31	0.45
1:C:1357:LEU:CD2	1:C:1498:VAL:CG2	2.95	0.45
1:D:230:LEU:CD2	1:D:856:HIS:CG	2.99	0.45
1:D:454:PRO:O	1:D:458:GLU:HG3	2.16	0.45
1:E:263:LEU:CB	1:E:438:LEU:CD2	2.94	0.45
1:E:274:ALA:CB	1:E:1519:ILE:HD11	2.26	0.45
1:E:348:PHE:HE1	1:E:354:ARG:HH11	1.64	0.45
1:E:452:LEU:HD12	1:E:457:LEU:HD21	1.99	0.45
1:E:454:PRO:O	1:E:458:GLU:HG3	2.16	0.45
1:E:515:PHE:HZ	1:E:528:TYR:CE2	2.33	0.45
1:E:614:GLU:C	1:E:617:THR:HG22	2.36	0.45
1:E:714:TRP:HE3	1:E:776:PHE:CZ	2.34	0.45
1:E:752:ILE:O	1:E:755:TYR:HB3	2.15	0.45
1:A:251:LEU:CD2	1:A:470:ILE:CD1	2.95	0.45
1:A:524:LEU:CD1	1:A:550:ILE:CG1	2.95	0.45
1:A:1385:PHE:HB3	1:A:1409:GLN:HA	1.99	0.45
1:B:255:ILE:CD1	1:B:442:LYS:HZ1	2.30	0.45
1:B:452:LEU:HD12	1:B:457:LEU:HD21	1.99	0.45
1:B:878:LEU:O	1:B:881:VAL:HB	2.17	0.45
1:B:1387:VAL:CG2	1:B:1487:VAL:CG2	2.95	0.45
1:B:1557:ALA:O	1:B:1564:LYS:HG3	2.16	0.45
1:C:442:LYS:HD3	1:C:470:ILE:CD1	2.47	0.45
1:C:666:GLU:O	1:C:670:LEU:HD12	2.15	0.45
1:C:771:ILE:HA	1:C:808:ALA:HB1	1.98	0.45
1:D:251:LEU:CD2	1:D:470:ILE:CD1	2.95	0.45
1:D:297:ILE:HG22	1:D:440:LEU:CD2	2.39	0.45
1:D:462:ARG:HD2	1:D:467:GLN:HG3	1.98	0.45
1:D:536:ILE:CD1	1:D:547:ARG:CD	2.95	0.45
1:D:807:PHE:O	1:D:811:VAL:HG23	2.17	0.45
1:D:883:VAL:HG13	1:D:884:ALA:N	2.31	0.45
1:E:310:ASN:HD21	1:E:455:THR:HB	1.81	0.45
1:E:342:ASP:HB2	1:E:358:LYS:HG3	1.96	0.45
1:E:1385:PHE:HB3	1:E:1409:GLN:HA	1.99	0.45
1:E:1387:VAL:CG2	1:E:1487:VAL:CG2	2.95	0.45
1:E:1433:LYS:HD2	1:E:1448:GLN:OE1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1577:LYS:HG2	1:E:1578:VAL:H	1.81	0.45
1:A:640:TRP:CZ3	1:A:646:TRP:CZ3	3.04	0.45
1:A:714:TRP:HE3	1:A:776:PHE:CZ	2.34	0.45
1:A:1420:GLY:HA3	1:A:1462:ASN:ND2	2.31	0.45
1:B:264:TYR:N	1:B:438:LEU:HD21	2.32	0.45
1:B:498:LEU:CD1	1:B:593:LEU:CD2	2.95	0.45
1:B:666:GLU:O	1:B:670:LEU:HD12	2.15	0.45
1:B:752:ILE:O	1:B:755:TYR:HB3	2.15	0.45
1:B:835:LEU:HD23	1:B:835:LEU:C	2.37	0.45
1:C:310:ASN:HD21	1:C:455:THR:HB	1.81	0.45
1:C:348:PHE:HE1	1:C:354:ARG:HH11	1.64	0.45
1:C:653:ILE:CD1	1:C:764:MET:CE	2.95	0.45
1:C:752:ILE:O	1:C:755:TYR:HB3	2.15	0.45
1:C:1385:PHE:HB3	1:C:1409:GLN:HA	1.99	0.45
1:D:342:ASP:HB2	1:D:358:LYS:HG3	1.96	0.45
1:D:396:THR:C	1:D:397:LEU:HD12	2.37	0.45
1:D:397:LEU:HD12	1:D:397:LEU:N	2.32	0.45
1:D:480:LEU:HD12	1:D:499:CYS:SG	2.57	0.45
1:E:370:ILE:CD1	1:E:410:LEU:CD2	2.95	0.45
1:E:771:ILE:HA	1:E:808:ALA:HB1	1.98	0.45
1:E:878:LEU:O	1:E:881:VAL:HB	2.17	0.45
1:E:1326:ASP:CG	1:E:1564:LYS:H	2.20	0.45
1:A:653:ILE:CD1	1:A:764:MET:CE	2.95	0.45
1:A:810:TRP:CZ2	1:A:835:LEU:HD11	2.52	0.45
1:A:1557:ALA:O	1:A:1564:LYS:HG3	2.16	0.45
1:B:355:LEU:CD1	1:B:357:TYR:CD1	2.95	0.45
1:B:397:LEU:HD12	1:B:397:LEU:N	2.31	0.45
1:B:440:LEU:CD1	1:B:444:ILE:CD1	2.94	0.45
1:B:594:LEU:CD1	1:B:634:LEU:CD1	2.95	0.45
1:C:297:ILE:HG22	1:C:440:LEU:CD2	2.39	0.45
1:C:397:LEU:HD12	1:C:397:LEU:N	2.32	0.45
1:C:432:ASN:OD1	1:C:434:TYR:HB2	2.17	0.45
1:C:454:PRO:O	1:C:458:GLU:HG3	2.16	0.45
1:C:730:PHE:CZ	1:C:734:LEU:HD11	2.51	0.45
1:C:878:LEU:O	1:C:881:VAL:HB	2.17	0.45
1:C:1500:ILE:HD12	1:C:1532:PHE:CE2	2.52	0.45
1:C:1544:PHE:HA	1:C:1549:ALA:HB2	1.99	0.45
1:D:291:GLU:O	1:D:295:GLN:HG3	2.16	0.45
1:D:540:SER:HB3	1:D:563:PHE:CB	2.44	0.45
1:D:1357:LEU:CD2	1:D:1498:VAL:CG2	2.95	0.45
1:E:733:TRP:CZ3	1:E:752:ILE:CD1	3.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:835:LEU:HD23	1:E:835:LEU:C	2.37	0.45
1:A:442:LYS:HD3	1:A:470:ILE:CD1	2.47	0.45
1:A:1501:ILE:HB	1:A:1554:THR:HG22	1.98	0.45
1:B:273:PRO:HD3	1:B:434:TYR:CE1	2.51	0.45
1:B:480:LEU:HD12	1:B:499:CYS:SG	2.57	0.45
1:B:614:GLU:C	1:B:617:THR:HG22	2.36	0.45
1:B:701:GLN:O	1:B:701:GLN:HG2	2.17	0.45
1:B:709:HIS:HB3	1:B:777:ARG:HH12	1.81	0.45
1:B:733:TRP:CZ3	1:B:752:ILE:HD13	2.52	0.45
1:B:733:TRP:CZ3	1:B:752:ILE:CD1	3.00	0.45
1:B:810:TRP:HZ2	1:B:835:LEU:CG	2.30	0.45
1:B:859:LEU:HB2	1:B:860:PRO:HD3	1.97	0.45
1:B:1332:VAL:HG21	1:B:1567:TYR:C	2.37	0.45
1:C:701:GLN:HG2	1:C:701:GLN:O	2.17	0.45
1:C:714:TRP:O	1:C:714:TRP:HD1	2.00	0.45
1:C:810:TRP:CZ2	1:C:835:LEU:HD11	2.52	0.45
1:C:1310:TYR:CE1	1:C:1349:LEU:HD13	2.51	0.45
1:D:414:LEU:HD11	1:D:417:GLY:N	2.31	0.45
1:D:594:LEU:CD1	1:D:634:LEU:CD1	2.95	0.45
1:D:810:TRP:CZ2	1:D:835:LEU:HD11	2.52	0.45
1:D:810:TRP:HZ2	1:D:835:LEU:CG	2.30	0.45
1:D:1501:ILE:HB	1:D:1554:THR:HG22	1.98	0.45
1:E:303:PHE:HD2	1:E:305:GLN:H	1.63	0.45
1:E:594:LEU:CD1	1:E:634:LEU:CD1	2.95	0.45
1:E:653:ILE:CD1	1:E:764:MET:HE1	2.46	0.45
1:E:795:ALA:HB3	1:E:800:SER:OG	2.17	0.45
1:E:810:TRP:HZ2	1:E:835:LEU:CG	2.30	0.45
1:E:810:TRP:HZ2	1:E:835:LEU:HG	1.81	0.45
1:E:859:LEU:HB2	1:E:860:PRO:HD3	1.97	0.45
1:A:536:ILE:CD1	1:A:547:ARG:CD	2.95	0.45
1:A:594:LEU:CD1	1:A:634:LEU:CD1	2.95	0.45
1:B:275:SER:HA	1:B:278:MET:HE1	1.98	0.45
1:B:370:ILE:CD1	1:B:410:LEU:CD2	2.95	0.45
1:B:640:TRP:CZ3	1:B:646:TRP:CZ3	3.04	0.45
1:B:810:TRP:HZ2	1:B:835:LEU:HG	1.81	0.45
1:B:1437:TRP:HZ3	1:B:1439:PRO:HG3	1.76	0.45
1:B:1500:ILE:HD12	1:B:1532:PHE:CE2	2.52	0.45
1:C:440:LEU:CD1	1:C:444:ILE:CD1	2.94	0.45
1:C:452:LEU:HD12	1:C:457:LEU:HD21	1.99	0.45
1:C:464:VAL:CG1	1:C:477:LYS:CD	2.94	0.45
1:C:654:MET:HE3	1:C:765:VAL:HG13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:733:TRP:CZ3	1:C:752:ILE:CD1	3.00	0.45
1:C:835:LEU:HD23	1:C:835:LEU:C	2.37	0.45
1:C:1481:THR:HG22	1:C:1482:ASP:N	2.30	0.45
1:D:432:ASN:OD1	1:D:434:TYR:HB2	2.17	0.45
1:D:440:LEU:CD1	1:D:444:ILE:CD1	2.94	0.45
1:D:614:GLU:C	1:D:617:THR:HG22	2.36	0.45
1:D:752:ILE:O	1:D:755:TYR:HB3	2.15	0.45
1:E:536:ILE:CD1	1:E:547:ARG:CD	2.95	0.45
1:E:597:ILE:HD11	1:E:598:HIS:CE1	2.52	0.45
1:E:605:LEU:CD1	1:E:609:LEU:CD1	2.95	0.45
1:E:835:LEU:CD2	1:E:839:MET:CG	2.95	0.45
1:E:1332:VAL:HG21	1:E:1567:TYR:C	2.37	0.45
1:A:319:ASN:ND2	1:A:322:ASP:H	2.15	0.45
1:A:396:THR:C	1:A:397:LEU:HD12	2.37	0.45
1:A:414:LEU:HD11	1:A:417:GLY:N	2.31	0.45
1:A:480:LEU:HD12	1:A:499:CYS:SG	2.57	0.45
1:A:597:ILE:HD11	1:A:598:HIS:CE1	2.52	0.45
1:A:605:LEU:CD1	1:A:609:LEU:CD1	2.95	0.45
1:A:614:GLU:C	1:A:617:THR:HG22	2.36	0.45
1:A:1412:GLY:H	1:A:1415:SER:HB2	1.82	0.45
1:B:396:THR:C	1:B:397:LEU:HD12	2.37	0.45
1:B:432:ASN:OD1	1:B:434:TYR:HB2	2.17	0.45
1:B:605:LEU:CD1	1:B:609:LEU:CD1	2.95	0.45
1:B:689:LEU:HD13	1:B:713:LEU:CD2	2.46	0.45
1:B:730:PHE:CZ	1:B:734:LEU:HD11	2.51	0.45
1:C:327:VAL:HG11	1:C:436:PHE:CZ	2.52	0.45
1:C:640:TRP:CZ3	1:C:646:TRP:CZ3	3.04	0.45
1:C:674:VAL:HG13	1:C:678:LEU:CD1	2.43	0.45
1:C:810:TRP:HZ2	1:C:835:LEU:CG	2.30	0.45
1:C:835:LEU:CD2	1:C:839:MET:CG	2.95	0.45
1:D:310:ASN:HD21	1:D:455:THR:HB	1.81	0.45
1:D:355:LEU:CD1	1:D:357:TYR:CD1	2.95	0.45
1:D:442:LYS:HD3	1:D:470:ILE:CD1	2.47	0.45
1:D:446:LEU:CD1	1:D:470:ILE:HD13	2.39	0.45
1:D:524:LEU:CD1	1:D:550:ILE:CG1	2.95	0.45
1:D:605:LEU:CD1	1:D:609:LEU:CD1	2.95	0.45
1:D:640:TRP:CZ3	1:D:646:TRP:CZ3	3.04	0.45
1:E:348:PHE:CE1	1:E:354:ARG:CB	3.00	0.45
1:E:709:HIS:HB3	1:E:777:ARG:HH12	1.81	0.45
1:E:730:PHE:CZ	1:E:734:LEU:HD11	2.51	0.45
1:E:1501:ILE:HB	1:E:1554:THR:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:291:GLU:O	1:A:295:GLN:HG3	2.16	0.45
1:A:368:LEU:HD12	1:A:411:THR:O	2.17	0.45
1:A:432:ASN:OD1	1:A:434:TYR:HB2	2.17	0.45
1:A:498:LEU:CD1	1:A:593:LEU:CD2	2.95	0.45
1:A:503:ILE:HB	1:A:582:LEU:CD1	2.47	0.45
1:A:622:ILE:HG21	1:A:627:LEU:HG	1.99	0.45
1:A:730:PHE:CZ	1:A:734:LEU:HD11	2.51	0.45
1:B:244:SER:HB3	1:B:245:PRO:CD	2.38	0.45
1:B:442:LYS:HD3	1:B:470:ILE:CD1	2.47	0.45
1:B:464:VAL:CG1	1:B:477:LYS:CD	2.94	0.45
1:B:708:ALA:O	1:B:712:LEU:HG	2.17	0.45
1:C:536:ILE:CD1	1:C:547:ARG:CD	2.95	0.45
1:C:605:LEU:CD1	1:C:609:LEU:CD1	2.95	0.45
1:C:733:TRP:CZ3	1:C:752:ILE:HD13	2.52	0.45
1:C:733:TRP:CH2	1:C:738:TYR:HB2	2.51	0.45
1:C:810:TRP:HZ2	1:C:835:LEU:HG	1.81	0.45
1:C:1577:LYS:HG2	1:C:1578:VAL:H	1.81	0.45
1:D:263:LEU:CB	1:D:438:LEU:CD2	2.94	0.45
1:D:452:LEU:HD12	1:D:457:LEU:HD21	1.99	0.45
1:D:622:ILE:HG21	1:D:627:LEU:HG	1.99	0.45
1:D:653:ILE:CD1	1:D:764:MET:CE	2.95	0.45
1:D:810:TRP:HZ2	1:D:835:LEU:HG	1.81	0.45
1:D:878:LEU:O	1:D:881:VAL:HB	2.17	0.45
1:E:708:ALA:O	1:E:712:LEU:HG	2.17	0.45
1:E:810:TRP:CZ2	1:E:835:LEU:HD11	2.52	0.45
1:E:1372:CYS:O	1:E:1375:MET:HG3	2.17	0.45
1:A:259:ASN:CB	1:A:263:LEU:HD13	2.39	0.44
1:A:348:PHE:CE1	1:A:354:ARG:CB	3.00	0.44
1:A:370:ILE:CD1	1:A:410:LEU:CD2	2.95	0.44
1:A:1310:TYR:CE1	1:A:1349:LEU:HD13	2.52	0.44
1:B:590:ILE:CG2	1:B:619:LEU:CD1	2.95	0.44
1:B:622:ILE:HG21	1:B:627:LEU:HG	1.99	0.44
1:B:661:LYS:CB	1:B:750:GLU:HA	2.45	0.44
1:B:1372:CYS:O	1:B:1375:MET:HG3	2.17	0.44
1:C:303:PHE:HD2	1:C:305:GLN:H	1.63	0.44
1:C:462:ARG:HD2	1:C:467:GLN:HG3	1.98	0.44
1:C:622:ILE:HG21	1:C:627:LEU:HG	1.99	0.44
1:C:630:LEU:CD2	1:C:634:LEU:CD1	2.95	0.44
1:C:709:HIS:HB3	1:C:777:ARG:HH12	1.81	0.44
1:C:795:ALA:HB3	1:C:800:SER:OG	2.17	0.44
1:C:1332:VAL:HG21	1:C:1567:TYR:C	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1433:LYS:HD2	1:C:1448:GLN:OE1	2.17	0.44
1:C:1489:ILE:HG12	1:C:1563:ARG:HH22	1.83	0.44
1:D:709:HIS:HB3	1:D:777:ARG:HH12	1.81	0.44
1:D:733:TRP:CZ3	1:D:752:ILE:CD1	3.00	0.44
1:D:859:LEU:HB2	1:D:860:PRO:HD3	1.97	0.44
1:D:1326:ASP:CG	1:D:1564:LYS:H	2.20	0.44
1:D:1332:VAL:HG21	1:D:1567:TYR:C	2.37	0.44
1:D:1385:PHE:HB3	1:D:1409:GLN:HA	1.99	0.44
1:D:1387:VAL:CG2	1:D:1487:VAL:CG2	2.95	0.44
1:E:230:LEU:CD2	1:E:880:TRP:CZ2	2.94	0.44
1:E:247:LEU:HD23	1:E:247:LEU:C	2.37	0.44
1:E:462:ARG:HD2	1:E:467:GLN:HG3	1.98	0.44
1:E:622:ILE:HG21	1:E:627:LEU:HG	1.99	0.44
1:E:640:TRP:CZ3	1:E:646:TRP:CZ3	3.04	0.44
1:E:733:TRP:CZ3	1:E:752:ILE:HD13	2.52	0.44
1:A:654:MET:HE3	1:A:765:VAL:HG13	1.99	0.44
1:B:251:LEU:CD2	1:B:470:ILE:CD1	2.95	0.44
1:B:351:GLU:OE1	1:B:398:ASN:HA	2.18	0.44
1:B:462:ARG:HD2	1:B:467:GLN:HG3	1.98	0.44
1:B:653:ILE:CD1	1:B:764:MET:CE	2.95	0.44
1:B:1357:LEU:CD2	1:B:1498:VAL:CG2	2.95	0.44
1:B:1489:ILE:HG12	1:B:1563:ARG:HH22	1.83	0.44
1:C:605:LEU:HD11	1:C:609:LEU:CD1	2.47	0.44
1:C:614:GLU:C	1:C:617:THR:HG22	2.36	0.44
1:C:766:TYR:OH	1:C:773:GLU:HB3	2.18	0.44
1:C:789:ALA:CB	1:C:792:ALA:CB	2.93	0.44
1:C:1387:VAL:CG2	1:C:1487:VAL:CG2	2.95	0.44
1:D:299:LYS:O	1:D:306:GLN:HG3	2.18	0.44
1:D:351:GLU:OE1	1:D:398:ASN:HA	2.18	0.44
1:D:630:LEU:CD2	1:D:634:LEU:CD1	2.96	0.44
1:D:714:TRP:HD1	1:D:714:TRP:O	2.00	0.44
1:D:1310:TYR:CE1	1:D:1349:LEU:HD13	2.51	0.44
1:D:1500:ILE:HD12	1:D:1532:PHE:CE2	2.52	0.44
1:E:480:LEU:HD12	1:E:499:CYS:SG	2.57	0.44
1:E:524:LEU:CD1	1:E:550:ILE:CG1	2.95	0.44
1:E:714:TRP:O	1:E:714:TRP:HD1	2.00	0.44
1:E:733:TRP:HE3	1:E:734:LEU:HD23	1.72	0.44
1:A:766:TYR:OH	1:A:773:GLU:HB3	2.18	0.44
1:A:795:ALA:HB3	1:A:800:SER:OG	2.17	0.44
1:B:348:PHE:HE1	1:B:354:ARG:HH11	1.64	0.44
1:B:1360:ILE:HD11	1:B:1527:GLU:CG	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1544:PHE:HA	1:B:1549:ALA:HB2	1.99	0.44
1:C:251:LEU:CD2	1:C:470:ILE:CD1	2.95	0.44
1:C:689:LEU:HB3	1:C:709:HIS:HD2	1.78	0.44
1:C:691:VAL:HG13	1:C:692:MET:N	2.31	0.44
1:C:1391:LEU:HD21	1:C:1483:VAL:HG12	1.96	0.44
1:D:319:ASN:ND2	1:D:322:ASP:H	2.15	0.44
1:D:691:VAL:HG13	1:D:692:MET:N	2.31	0.44
1:D:1544:PHE:HA	1:D:1549:ALA:HB2	1.99	0.44
1:E:296:PHE:CZ	1:E:447:SER:CB	2.95	0.44
1:E:714:TRP:HD1	1:E:718:LEU:HG	1.82	0.44
1:A:319:ASN:CG	1:A:322:ASP:HB2	2.38	0.44
1:A:348:PHE:HE1	1:A:354:ARG:HH11	1.64	0.44
1:A:461:VAL:HG22	1:A:474:VAL:HG11	2.00	0.44
1:A:661:LYS:CB	1:A:750:GLU:HA	2.46	0.44
1:A:714:TRP:HD1	1:A:714:TRP:O	2.00	0.44
1:A:810:TRP:NE1	1:A:839:MET:SD	2.91	0.44
1:A:851:ILE:CG2	1:A:852:GLN:N	2.81	0.44
1:A:1433:LYS:HD2	1:A:1448:GLN:OE1	2.17	0.44
1:B:810:TRP:CZ2	1:B:835:LEU:HD11	2.52	0.44
1:B:1326:ASP:CG	1:B:1564:LYS:H	2.20	0.44
1:B:1537:ILE:CG2	1:B:1538:ASP:N	2.81	0.44
1:C:275:SER:HA	1:C:278:MET:HE1	1.97	0.44
1:C:497:ILE:HD11	1:C:586:SER:HA	2.00	0.44
1:C:1537:ILE:CG2	1:C:1538:ASP:N	2.81	0.44
1:D:264:TYR:N	1:D:438:LEU:HD21	2.32	0.44
1:D:342:ASP:CB	1:D:358:LYS:HG2	2.39	0.44
1:E:462:ARG:NE	1:E:506:ARG:HH22	2.15	0.44
1:E:653:ILE:CD1	1:E:764:MET:CE	2.95	0.44
1:E:835:LEU:HD23	1:E:839:MET:HG2	2.00	0.44
1:E:1310:TYR:CE1	1:E:1349:LEU:HD13	2.51	0.44
1:E:1500:ILE:HD12	1:E:1532:PHE:CE2	2.52	0.44
1:A:327:VAL:HG11	1:A:436:PHE:CZ	2.52	0.44
1:A:709:HIS:HB3	1:A:777:ARG:HH12	1.82	0.44
1:A:1332:VAL:HG21	1:A:1567:TYR:C	2.37	0.44
1:A:1500:ILE:HD12	1:A:1532:PHE:CE2	2.52	0.44
1:B:259:ASN:HB3	1:B:263:LEU:HD11	1.98	0.44
1:B:259:ASN:CB	1:B:263:LEU:HD13	2.39	0.44
1:B:714:TRP:O	1:B:714:TRP:HD1	2.00	0.44
1:B:851:ILE:CG2	1:B:852:GLN:N	2.81	0.44
1:B:852:GLN:HB2	1:B:880:TRP:CD2	2.52	0.44
1:C:264:TYR:N	1:C:438:LEU:HD21	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:461:VAL:HG22	1:C:474:VAL:HG11	2.00	0.44
1:C:480:LEU:HD12	1:C:499:CYS:SG	2.57	0.44
1:C:524:LEU:CD1	1:C:550:ILE:CG1	2.95	0.44
1:C:597:ILE:HD11	1:C:598:HIS:CE1	2.52	0.44
1:C:807:PHE:O	1:C:811:VAL:HG23	2.17	0.44
1:C:835:LEU:HD23	1:C:839:MET:HG2	2.00	0.44
1:D:714:TRP:HB2	1:D:780:VAL:CG1	2.48	0.44
1:D:835:LEU:CD2	1:D:839:MET:CG	2.95	0.44
1:D:1489:ILE:HG12	1:D:1563:ARG:HH22	1.83	0.44
1:D:1555:PHE:O	1:D:1567:TYR:HB2	2.18	0.44
1:E:255:ILE:HG22	1:E:439:LYS:HE3	2.00	0.44
1:E:351:GLU:OE1	1:E:398:ASN:HA	2.18	0.44
1:E:622:ILE:CG2	1:E:627:LEU:HD11	2.33	0.44
1:A:275:SER:HA	1:A:278:MET:HE1	1.98	0.44
1:A:299:LYS:O	1:A:306:GLN:HG3	2.18	0.44
1:A:1357:LEU:HD21	1:A:1498:VAL:CG2	2.47	0.44
1:B:230:LEU:CD2	1:B:856:HIS:CG	2.99	0.44
1:B:497:ILE:HD12	1:B:503:ILE:CD1	2.48	0.44
1:B:497:ILE:HD11	1:B:586:SER:HA	2.00	0.44
1:B:598:HIS:CD2	1:B:638:THR:CB	3.01	0.44
1:B:600:LEU:CG	1:B:648:VAL:HG21	2.46	0.44
1:B:753:VAL:O	1:B:753:VAL:HG12	2.17	0.44
1:B:1433:LYS:HD2	1:B:1448:GLN:OE1	2.17	0.44
1:C:594:LEU:CD1	1:C:634:LEU:CD1	2.95	0.44
1:C:598:HIS:CD2	1:C:638:THR:CB	3.01	0.44
1:C:598:HIS:CD2	1:C:638:THR:HG21	2.53	0.44
1:C:851:ILE:CG2	1:C:852:GLN:N	2.81	0.44
1:C:1501:ILE:HB	1:C:1554:THR:HG22	1.98	0.44
1:D:368:LEU:HD12	1:D:411:THR:O	2.18	0.44
1:D:370:ILE:CD1	1:D:410:LEU:CD2	2.95	0.44
1:D:622:ILE:CG2	1:D:627:LEU:HD11	2.33	0.44
1:D:708:ALA:O	1:D:712:LEU:HG	2.17	0.44
1:D:733:TRP:CZ3	1:D:752:ILE:HD13	2.52	0.44
1:D:835:LEU:HD23	1:D:839:MET:HG2	2.00	0.44
1:D:1372:CYS:O	1:D:1375:MET:HG3	2.17	0.44
1:D:1433:LYS:HD2	1:D:1448:GLN:OE1	2.17	0.44
1:E:319:ASN:ND2	1:E:322:ASP:H	2.15	0.44
1:E:605:LEU:HD11	1:E:609:LEU:CD1	2.47	0.44
1:E:753:VAL:O	1:E:753:VAL:HG12	2.17	0.44
1:E:1381:LEU:CD1	1:E:1382:GLY:N	2.81	0.44
1:A:714:TRP:HB2	1:A:780:VAL:CG1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:733:TRP:CZ3	1:A:752:ILE:CD1	3.00	0.44
1:A:878:LEU:O	1:A:881:VAL:HB	2.17	0.44
1:A:1326:ASP:CG	1:A:1564:LYS:H	2.20	0.44
1:A:1381:LEU:CD1	1:A:1382:GLY:N	2.81	0.44
1:A:1501:ILE:HG22	1:A:1502:VAL:N	2.33	0.44
1:A:1537:ILE:CG2	1:A:1538:ASP:N	2.81	0.44
1:A:1577:LYS:HG2	1:A:1578:VAL:H	1.81	0.44
1:B:536:ILE:CD1	1:B:547:ARG:CD	2.95	0.44
1:B:598:HIS:CD2	1:B:638:THR:HG21	2.53	0.44
1:B:605:LEU:HD11	1:B:609:LEU:CD1	2.47	0.44
1:B:766:TYR:OH	1:B:773:GLU:HB3	2.18	0.44
1:B:1381:LEU:CD1	1:B:1382:GLY:N	2.81	0.44
1:B:1412:GLY:H	1:B:1415:SER:HB2	1.82	0.44
1:C:440:LEU:HD11	1:C:444:ILE:HD11	2.00	0.44
1:C:714:TRP:HB2	1:C:780:VAL:HG12	1.99	0.44
1:C:810:TRP:NE1	1:C:839:MET:SD	2.91	0.44
1:C:852:GLN:HB2	1:C:880:TRP:CD2	2.52	0.44
1:D:515:PHE:CE1	1:D:585:LEU:CD1	2.94	0.44
1:D:598:HIS:CD2	1:D:638:THR:HG21	2.53	0.44
1:D:771:ILE:HA	1:D:808:ALA:HB1	1.98	0.44
1:E:598:HIS:CD2	1:E:638:THR:HG21	2.53	0.44
1:E:730:PHE:CE1	1:E:755:TYR:CD2	3.06	0.44
1:E:810:TRP:NE1	1:E:839:MET:SD	2.91	0.44
1:E:1375:MET:HE3	1:E:1525:PHE:CE1	2.52	0.44
1:A:274:ALA:CB	1:A:1519:ILE:HD11	2.26	0.44
1:A:689:LEU:CD1	1:A:713:LEU:CD2	2.96	0.44
1:A:807:PHE:O	1:A:811:VAL:HG23	2.16	0.44
1:A:810:TRP:HZ2	1:A:835:LEU:HG	1.81	0.44
1:A:852:GLN:HB2	1:A:880:TRP:CD2	2.52	0.44
1:A:1357:LEU:CD2	1:A:1498:VAL:CG2	2.95	0.44
1:A:1375:MET:HE3	1:A:1525:PHE:HE1	1.83	0.44
1:A:1555:PHE:O	1:A:1567:TYR:HB2	2.18	0.44
1:B:319:ASN:CG	1:B:322:ASP:HB2	2.38	0.44
1:B:714:TRP:HB2	1:B:780:VAL:HG12	1.99	0.44
1:B:1403:MET:HA	1:B:1481:THR:OG1	2.18	0.44
1:B:1555:PHE:O	1:B:1567:TYR:HB2	2.18	0.44
1:C:708:ALA:O	1:C:712:LEU:HG	2.17	0.44
1:C:753:VAL:O	1:C:753:VAL:HG12	2.17	0.44
1:D:497:ILE:HD11	1:D:586:SER:HA	2.00	0.44
1:D:518:LEU:HD11	1:D:589:TYR:CZ	2.53	0.44
1:D:597:ILE:HD11	1:D:598:HIS:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:264:TYR:N	1:E:438:LEU:HD21	2.32	0.44
1:E:368:LEU:HD12	1:E:411:THR:O	2.18	0.44
1:E:432:ASN:OD1	1:E:434:TYR:HB2	2.17	0.44
1:E:498:LEU:CD1	1:E:593:LEU:CD2	2.95	0.44
1:E:630:LEU:CD2	1:E:634:LEU:CD1	2.96	0.44
1:E:852:GLN:HB2	1:E:880:TRP:CD2	2.52	0.44
1:E:1357:LEU:CD2	1:E:1498:VAL:CG2	2.95	0.44
1:A:247:LEU:HD23	1:A:247:LEU:C	2.37	0.44
1:A:303:PHE:HD2	1:A:305:GLN:H	1.63	0.44
1:A:701:GLN:HG2	1:A:701:GLN:O	2.17	0.44
1:A:714:TRP:HB2	1:A:780:VAL:HG12	1.99	0.44
1:A:771:ILE:HA	1:A:808:ALA:HB1	1.98	0.44
1:A:1544:PHE:HA	1:A:1549:ALA:HB2	1.99	0.44
1:B:557:ILE:CG2	1:B:558:ASP:N	2.81	0.44
1:B:630:LEU:CD2	1:B:634:LEU:CD1	2.96	0.44
1:B:1501:ILE:HB	1:B:1554:THR:HG22	1.98	0.44
1:C:368:LEU:HD12	1:C:411:THR:O	2.17	0.44
1:C:370:ILE:CD1	1:C:410:LEU:CD2	2.95	0.44
1:C:660:ASN:H	1:C:757:GLN:NE2	2.16	0.44
1:C:1355:PRO:CB	1:C:1555:PHE:CZ	3.01	0.44
1:D:255:ILE:CG2	1:D:439:LYS:CE	2.96	0.44
1:D:598:HIS:CD2	1:D:638:THR:CB	3.01	0.44
1:D:795:ALA:HB3	1:D:800:SER:OG	2.17	0.44
1:D:835:LEU:HD23	1:D:835:LEU:C	2.37	0.44
1:D:851:ILE:CG2	1:D:852:GLN:N	2.81	0.44
1:D:852:GLN:HB2	1:D:880:TRP:CD2	2.52	0.44
1:E:503:ILE:HG21	1:E:515:PHE:CD1	2.53	0.44
1:E:590:ILE:CG2	1:E:619:LEU:CD1	2.95	0.44
1:E:699:THR:CG2	1:E:700:LEU:N	2.81	0.44
1:E:701:GLN:O	1:E:701:GLN:HG2	2.17	0.44
1:E:714:TRP:HB2	1:E:780:VAL:HG12	1.99	0.44
1:E:798:ALA:O	1:E:802:ILE:HG22	2.18	0.44
1:E:1501:ILE:HG22	1:E:1502:VAL:N	2.33	0.44
1:E:1537:ILE:CG2	1:E:1538:ASP:N	2.81	0.44
1:A:503:ILE:HG21	1:A:515:PHE:CD1	2.53	0.43
1:A:590:ILE:CG2	1:A:619:LEU:CD1	2.95	0.43
1:A:630:LEU:CD2	1:A:634:LEU:CD1	2.96	0.43
1:A:1408:TYR:CG	1:A:1467:LEU:CD1	2.99	0.43
1:A:1489:ILE:HG12	1:A:1563:ARG:HH22	1.82	0.43
1:B:367:TYR:CD1	1:B:380:ARG:NH2	2.86	0.43
1:B:461:VAL:HG22	1:B:474:VAL:HG11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:378:LEU:HB3	1:C:395:ILE:HG21	2.00	0.43
1:C:1326:ASP:CG	1:C:1564:LYS:H	2.20	0.43
1:D:440:LEU:HD11	1:D:444:ILE:HD11	2.00	0.43
1:D:498:LEU:CD1	1:D:593:LEU:CD2	2.95	0.43
1:D:689:LEU:HD13	1:D:713:LEU:CD2	2.46	0.43
1:D:701:GLN:O	1:D:701:GLN:HG2	2.17	0.43
1:D:810:TRP:NE1	1:D:839:MET:SD	2.91	0.43
1:E:299:LYS:O	1:E:306:GLN:HG3	2.18	0.43
1:E:503:ILE:HB	1:E:582:LEU:CD1	2.47	0.43
1:E:518:LEU:HD11	1:E:589:TYR:CZ	2.53	0.43
1:E:714:TRP:HB2	1:E:780:VAL:CG1	2.48	0.43
1:A:271:ILE:O	1:A:271:ILE:HG13	2.18	0.43
1:A:699:THR:CG2	1:A:700:LEU:N	2.81	0.43
1:A:798:ALA:O	1:A:802:ILE:HG22	2.18	0.43
1:B:271:ILE:O	1:B:271:ILE:HG13	2.18	0.43
1:B:319:ASN:ND2	1:B:322:ASP:H	2.15	0.43
1:B:327:VAL:HG11	1:B:436:PHE:CZ	2.52	0.43
1:B:503:ILE:HB	1:B:582:LEU:CD1	2.47	0.43
1:B:689:LEU:CD1	1:B:713:LEU:CD2	2.96	0.43
1:C:255:ILE:HG22	1:C:439:LYS:HE3	1.99	0.43
1:C:319:ASN:CG	1:C:322:ASP:HB2	2.38	0.43
1:C:497:ILE:HD12	1:C:503:ILE:CD1	2.48	0.43
1:C:503:ILE:HB	1:C:582:LEU:CD1	2.47	0.43
1:C:1380:LYS:CG	1:C:1413:ASN:HD21	2.26	0.43
1:D:1355:PRO:CB	1:D:1555:PHE:CZ	3.01	0.43
1:E:244:SER:HB3	1:E:245:PRO:CD	2.38	0.43
1:E:378:LEU:HB3	1:E:395:ILE:HG21	2.00	0.43
1:E:1357:LEU:HD21	1:E:1498:VAL:CG2	2.47	0.43
1:E:1412:GLY:H	1:E:1415:SER:HB2	1.82	0.43
1:A:367:TYR:CD1	1:A:380:ARG:NH2	2.86	0.43
1:A:462:ARG:NE	1:A:506:ARG:HH22	2.15	0.43
1:A:539:ASN:CA	1:A:563:PHE:CD1	2.93	0.43
1:A:612:VAL:CG2	1:A:633:LYS:HE2	2.42	0.43
1:A:708:ALA:O	1:A:712:LEU:HG	2.17	0.43
1:A:730:PHE:CE1	1:A:755:TYR:CD2	3.06	0.43
1:A:856:HIS:ND1	1:A:880:TRP:CZ2	2.86	0.43
1:A:1406:PRO:HG3	1:A:1473:MET:CE	2.16	0.43
1:B:233:GLN:O	1:B:237:LEU:HD12	2.19	0.43
1:B:234:ALA:HA	1:B:237:LEU:HD13	2.01	0.43
1:B:462:ARG:NE	1:B:506:ARG:HH22	2.15	0.43
1:B:714:TRP:HB2	1:B:780:VAL:CG1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:319:ASN:ND2	1:C:322:ASP:H	2.15	0.43
1:C:493:GLU:HG3	1:C:494:THR:N	2.33	0.43
1:D:462:ARG:NE	1:D:506:ARG:HH22	2.16	0.43
1:D:493:GLU:HG3	1:D:494:THR:N	2.33	0.43
1:D:590:ILE:CG2	1:D:619:LEU:CD1	2.95	0.43
1:D:780:VAL:CG2	1:D:781:THR:N	2.81	0.43
1:E:255:ILE:CG2	1:E:439:LYS:CE	2.96	0.43
1:E:461:VAL:HG22	1:E:474:VAL:HG11	2.00	0.43
1:E:733:TRP:HZ3	1:E:734:LEU:CD2	2.29	0.43
1:E:766:TYR:OH	1:E:773:GLU:HB3	2.18	0.43
1:E:1378:TYR:CD1	1:E:1421:ARG:NH2	2.87	0.43
1:E:1544:PHE:HA	1:E:1549:ALA:HB2	1.99	0.43
1:A:234:ALA:HA	1:A:237:LEU:HD13	2.01	0.43
1:A:351:GLU:OE1	1:A:398:ASN:HA	2.18	0.43
1:A:598:HIS:CD2	1:A:638:THR:HG21	2.53	0.43
1:A:733:TRP:CZ3	1:A:752:ILE:HD13	2.52	0.43
1:A:1355:PRO:CB	1:A:1555:PHE:CZ	3.01	0.43
1:B:440:LEU:HD11	1:B:444:ILE:HD11	2.00	0.43
1:B:597:ILE:HD11	1:B:598:HIS:CE1	2.52	0.43
1:B:780:VAL:CG2	1:B:781:THR:N	2.81	0.43
1:B:835:LEU:HD23	1:B:839:MET:HG2	2.00	0.43
1:B:1378:TYR:CD1	1:B:1421:ARG:NH2	2.87	0.43
1:B:1501:ILE:HG22	1:B:1502:VAL:N	2.33	0.43
1:C:367:TYR:CG	1:C:380:ARG:NH2	2.87	0.43
1:C:689:LEU:CD1	1:C:713:LEU:CD2	2.96	0.43
1:C:1381:LEU:CD1	1:C:1382:GLY:N	2.81	0.43
1:C:1408:TYR:CG	1:C:1467:LEU:CD1	2.99	0.43
1:D:296:PHE:CZ	1:D:444:ILE:HA	2.47	0.43
1:D:699:THR:CG2	1:D:700:LEU:N	2.81	0.43
1:D:753:VAL:O	1:D:753:VAL:HG12	2.17	0.43
1:D:1316:VAL:CG2	1:D:1573:PRO:HD2	2.49	0.43
1:D:1378:TYR:CD1	1:D:1421:ARG:NH2	2.87	0.43
1:D:1408:TYR:CG	1:D:1467:LEU:CD1	2.99	0.43
1:D:1412:GLY:H	1:D:1415:SER:HB2	1.82	0.43
1:E:497:ILE:HD12	1:E:503:ILE:CD1	2.48	0.43
1:E:497:ILE:HG13	1:E:501:ALA:O	2.19	0.43
1:E:851:ILE:CG2	1:E:852:GLN:N	2.81	0.43
1:E:1403:MET:HA	1:E:1481:THR:OG1	2.18	0.43
1:A:296:PHE:CZ	1:A:447:SER:CB	2.94	0.43
1:A:1363:GLY:O	1:A:1369:ARG:HD3	2.19	0.43
1:A:1403:MET:HA	1:A:1481:THR:OG1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:368:LEU:HD12	1:B:411:THR:O	2.18	0.43
1:B:414:LEU:CD1	1:B:416:SER:H	2.31	0.43
1:B:497:ILE:HG13	1:B:501:ALA:O	2.19	0.43
1:C:259:ASN:HB3	1:C:263:LEU:HD11	1.98	0.43
1:C:299:LYS:O	1:C:306:GLN:HG3	2.18	0.43
1:C:1378:TYR:CD1	1:C:1421:ARG:NH2	2.87	0.43
1:D:274:ALA:CB	1:D:1519:ILE:HD11	2.26	0.43
1:D:714:TRP:HB2	1:D:780:VAL:HG12	1.99	0.43
1:D:856:HIS:HD1	1:D:880:TRP:HZ2	1.64	0.43
1:D:1381:LEU:CD1	1:D:1382:GLY:N	2.81	0.43
1:E:233:GLN:O	1:E:237:LEU:HD12	2.19	0.43
1:E:600:LEU:CG	1:E:648:VAL:HG21	2.46	0.43
1:E:1555:PHE:CE1	1:E:1570:PHE:CE1	3.07	0.43
1:A:378:LEU:HB3	1:A:395:ILE:HG21	2.00	0.43
1:B:299:LYS:O	1:B:306:GLN:HG3	2.17	0.43
1:B:1355:PRO:CB	1:B:1555:PHE:CZ	3.01	0.43
1:C:263:LEU:CB	1:C:438:LEU:CD2	2.94	0.43
1:C:351:GLU:OE1	1:C:398:ASN:HA	2.18	0.43
1:C:456:ILE:CG2	1:C:457:LEU:N	2.82	0.43
1:C:462:ARG:NE	1:C:506:ARG:HH22	2.15	0.43
1:C:663:LEU:HD23	1:C:663:LEU:N	2.23	0.43
1:C:798:ALA:O	1:C:802:ILE:HG22	2.18	0.43
1:C:1412:GLY:H	1:C:1415:SER:HB2	1.82	0.43
1:D:378:LEU:HB3	1:D:395:ILE:HG21	2.00	0.43
1:D:497:ILE:HD12	1:D:503:ILE:CD1	2.48	0.43
1:D:503:ILE:HG21	1:D:515:PHE:CD1	2.53	0.43
1:D:600:LEU:CG	1:D:648:VAL:HG21	2.46	0.43
1:D:689:LEU:CD1	1:D:713:LEU:CD2	2.96	0.43
1:D:730:PHE:CE1	1:D:755:TYR:CD2	3.06	0.43
1:D:1403:MET:HA	1:D:1481:THR:OG1	2.18	0.43
1:E:856:HIS:HD1	1:E:880:TRP:HZ2	1.64	0.43
1:E:1408:TYR:CG	1:E:1467:LEU:CD1	2.99	0.43
1:A:497:ILE:HD11	1:A:586:SER:HA	2.00	0.43
1:A:598:HIS:CD2	1:A:638:THR:CB	3.01	0.43
1:A:1378:TYR:CD1	1:A:1421:ARG:NH2	2.87	0.43
1:B:286:TYR:CB	1:B:288:LEU:HG	2.49	0.43
1:B:367:TYR:CG	1:B:380:ARG:NH2	2.87	0.43
1:B:810:TRP:NE1	1:B:839:MET:SD	2.91	0.43
1:B:1351:ILE:HG22	1:B:1537:ILE:O	2.19	0.43
1:C:367:TYR:CD1	1:C:380:ARG:NH2	2.86	0.43
1:C:856:HIS:ND1	1:C:880:TRP:CZ2	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1403:MET:HA	1:C:1481:THR:OG1	2.18	0.43
1:D:336:THR:O	1:D:337:ASN:HB2	2.19	0.43
1:D:461:VAL:HG22	1:D:474:VAL:HG11	2.00	0.43
1:D:605:LEU:HD11	1:D:609:LEU:CD1	2.47	0.43
1:D:709:HIS:O	1:D:713:LEU:HG	2.18	0.43
1:D:1501:ILE:HG22	1:D:1502:VAL:N	2.33	0.43
1:E:327:VAL:HG11	1:E:436:PHE:CZ	2.52	0.43
1:E:336:THR:O	1:E:337:ASN:HB2	2.19	0.43
1:E:493:GLU:HG3	1:E:494:THR:N	2.33	0.43
1:E:529:PHE:CD2	1:E:547:ARG:NH2	2.87	0.43
1:E:660:ASN:H	1:E:757:GLN:NE2	2.16	0.43
1:E:689:LEU:CD1	1:E:713:LEU:CD2	2.96	0.43
1:E:853:ALA:HA	1:E:880:TRP:NE1	2.33	0.43
1:A:653:ILE:CD1	1:A:764:MET:SD	3.07	0.43
1:A:709:HIS:O	1:A:713:LEU:HG	2.18	0.43
1:A:733:TRP:HZ3	1:A:734:LEU:CD2	2.29	0.43
1:B:255:ILE:HG22	1:B:439:LYS:HE3	2.00	0.43
1:B:709:HIS:O	1:B:713:LEU:HG	2.18	0.43
1:B:853:ALA:HA	1:B:880:TRP:NE1	2.33	0.43
1:B:1555:PHE:CE1	1:B:1570:PHE:CE1	3.07	0.43
1:C:282:LEU:HD22	1:C:286:TYR:HE2	1.84	0.43
1:C:661:LYS:CA	1:C:753:VAL:HG11	2.44	0.43
1:C:1380:LYS:O	1:C:1525:PHE:CE2	2.72	0.43
1:D:233:GLN:O	1:D:237:LEU:HD12	2.19	0.43
1:D:348:PHE:CE1	1:D:354:ARG:CB	3.00	0.43
1:D:785:MET:HB3	1:D:825:PHE:CE2	2.54	0.43
1:D:1555:PHE:CE1	1:D:1570:PHE:CE1	3.07	0.43
1:E:234:ALA:HA	1:E:237:LEU:HD13	2.01	0.43
1:E:271:ILE:O	1:E:271:ILE:HG13	2.18	0.43
1:E:275:SER:HA	1:E:278:MET:HE1	1.97	0.43
1:E:275:SER:HA	1:E:278:MET:HE2	2.00	0.43
1:E:367:TYR:CD1	1:E:380:ARG:NH2	2.86	0.43
1:E:653:ILE:CD1	1:E:764:MET:SD	3.07	0.43
1:E:785:MET:HB3	1:E:825:PHE:CE2	2.54	0.43
1:E:1316:VAL:CG2	1:E:1573:PRO:HD2	2.49	0.43
1:E:1555:PHE:O	1:E:1567:TYR:HB2	2.18	0.43
1:A:282:LEU:HD22	1:A:286:TYR:HE2	1.84	0.43
1:A:493:GLU:HG3	1:A:494:THR:N	2.33	0.43
1:A:518:LEU:HD11	1:A:589:TYR:CZ	2.53	0.43
1:A:557:ILE:CG2	1:A:558:ASP:N	2.81	0.43
1:A:714:TRP:CD2	1:A:762:LEU:CD2	2.93	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:714:TRP:HD1	1:A:718:LEU:HG	1.82	0.43
1:A:835:LEU:HD23	1:A:839:MET:HG2	2.00	0.43
1:B:594:LEU:CD1	1:B:634:LEU:HD12	2.49	0.43
1:B:653:ILE:HD11	1:B:764:MET:HE1	2.00	0.43
1:B:730:PHE:CE1	1:B:755:TYR:CD2	3.06	0.43
1:B:856:HIS:ND1	1:B:880:TRP:CZ2	2.86	0.43
1:B:1380:LYS:O	1:B:1525:PHE:CE2	2.72	0.43
1:C:233:GLN:O	1:C:237:LEU:HD12	2.19	0.43
1:C:498:LEU:CD1	1:C:593:LEU:CD2	2.95	0.43
1:C:699:THR:CG2	1:C:700:LEU:N	2.81	0.43
1:C:714:TRP:CE3	1:C:776:PHE:CZ	3.07	0.43
1:C:714:TRP:HB2	1:C:780:VAL:CG1	2.48	0.43
1:D:273:PRO:CD	1:D:434:TYR:CE1	3.02	0.43
1:D:557:ILE:CG2	1:D:558:ASP:N	2.81	0.43
1:D:660:ASN:H	1:D:757:GLN:NE2	2.16	0.43
1:D:798:ALA:O	1:D:802:ILE:HG22	2.18	0.43
1:D:883:VAL:O	1:D:887:LEU:HD13	2.19	0.43
1:D:1325:GLY:HA2	1:D:1566:GLY:N	2.34	0.43
1:E:367:TYR:CG	1:E:380:ARG:NH2	2.87	0.43
1:E:456:ILE:CG2	1:E:457:LEU:N	2.82	0.43
1:E:598:HIS:CD2	1:E:638:THR:CB	3.01	0.43
1:E:780:VAL:CG2	1:E:781:THR:N	2.81	0.43
1:E:856:HIS:ND1	1:E:880:TRP:CZ2	2.86	0.43
1:E:1355:PRO:CB	1:E:1555:PHE:CZ	3.01	0.43
1:A:259:ASN:HB3	1:A:263:LEU:HD11	1.98	0.43
1:A:272:GLU:HB2	1:A:1519:ILE:CD1	2.49	0.43
1:A:355:LEU:CD1	1:A:357:TYR:CD1	2.95	0.43
1:A:414:LEU:CD1	1:A:416:SER:H	2.31	0.43
1:A:414:LEU:CD1	1:A:417:GLY:N	2.82	0.43
1:A:529:PHE:CD2	1:A:547:ARG:NH2	2.87	0.43
1:A:689:LEU:HB3	1:A:709:HIS:NE2	2.34	0.43
1:A:714:TRP:CE3	1:A:776:PHE:CZ	3.07	0.43
1:A:853:ALA:HA	1:A:880:TRP:NE1	2.33	0.43
1:A:1351:ILE:HG22	1:A:1537:ILE:O	2.19	0.43
1:B:297:ILE:HG22	1:B:440:LEU:CD2	2.39	0.43
1:B:518:LEU:HD11	1:B:589:TYR:CZ	2.53	0.43
1:B:539:ASN:CA	1:B:563:PHE:CD1	2.93	0.43
1:B:653:ILE:CD1	1:B:764:MET:SD	3.07	0.43
1:B:883:VAL:O	1:B:887:LEU:HD13	2.19	0.43
1:B:1339:THR:CG2	1:B:1340:ILE:N	2.82	0.43
1:C:234:ALA:HA	1:C:237:LEU:HD13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:348:PHE:CE1	1:C:354:ARG:CB	3.00	0.43
1:C:689:LEU:HB3	1:C:709:HIS:NE2	2.34	0.43
1:C:692:MET:SD	1:C:696:ILE:CG2	3.07	0.43
1:C:709:HIS:O	1:C:713:LEU:HG	2.18	0.43
1:C:1501:ILE:HG22	1:C:1502:VAL:N	2.33	0.43
1:D:367:TYR:CD1	1:D:380:ARG:NH2	2.86	0.43
1:D:456:ILE:CG2	1:D:457:LEU:N	2.82	0.43
1:D:853:ALA:HA	1:D:880:TRP:NE1	2.33	0.43
1:D:856:HIS:ND1	1:D:880:TRP:CZ2	2.86	0.43
1:D:1351:ILE:HG22	1:D:1537:ILE:O	2.19	0.43
1:D:1363:GLY:O	1:D:1369:ARG:HD3	2.19	0.43
1:E:237:LEU:HG	1:E:479:PHE:CB	2.31	0.43
1:E:319:ASN:CG	1:E:322:ASP:HB2	2.38	0.43
1:E:460:ILE:O	1:E:464:VAL:HG22	2.19	0.43
1:E:497:ILE:HD11	1:E:586:SER:HA	2.00	0.43
1:E:557:ILE:CG2	1:E:558:ASP:N	2.81	0.43
1:E:654:MET:HE3	1:E:765:VAL:HG13	2.00	0.43
1:E:709:HIS:O	1:E:713:LEU:HG	2.18	0.43
1:E:1479:THR:HG22	1:E:1480:ALA:N	2.34	0.43
1:A:367:TYR:CG	1:A:380:ARG:NH2	2.87	0.42
1:A:660:ASN:H	1:A:757:GLN:NE2	2.16	0.42
1:A:1479:THR:HG22	1:A:1480:ALA:N	2.34	0.42
1:B:233:GLN:O	1:B:236:LEU:HB2	2.19	0.42
1:B:264:TYR:CD2	1:B:434:TYR:O	2.72	0.42
1:B:623:SER:N	1:B:626:GLN:CG	2.83	0.42
1:B:689:LEU:HB3	1:B:709:HIS:NE2	2.34	0.42
1:B:798:ALA:O	1:B:802:ILE:HG22	2.18	0.42
1:B:1479:THR:HG22	1:B:1480:ALA:N	2.34	0.42
1:C:250:ILE:HD13	1:C:445:ARG:NH1	2.34	0.42
1:C:251:LEU:HD21	1:C:446:LEU:HD21	2.01	0.42
1:C:414:LEU:CD1	1:C:416:SER:H	2.31	0.42
1:C:460:ILE:O	1:C:464:VAL:HG22	2.19	0.42
1:C:497:ILE:HG13	1:C:501:ALA:O	2.19	0.42
1:C:557:ILE:CG2	1:C:558:ASP:N	2.81	0.42
1:C:856:HIS:HD1	1:C:880:TRP:HZ2	1.64	0.42
1:C:1353:ILE:CG2	1:C:1354:SER:N	2.82	0.42
1:C:1509:GLN:NE2	1:C:1538:ASP:HB2	2.34	0.42
1:C:1555:PHE:O	1:C:1567:TYR:HB2	2.18	0.42
1:D:251:LEU:HD21	1:D:446:LEU:HD21	2.01	0.42
1:D:414:LEU:CD1	1:D:417:GLY:N	2.82	0.42
1:D:529:PHE:CD2	1:D:547:ARG:NH2	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:623:SER:N	1:D:626:GLN:CG	2.82	0.42
1:D:661:LYS:CA	1:D:753:VAL:HG11	2.44	0.42
1:D:674:VAL:HG13	1:D:678:LEU:CD1	2.43	0.42
1:D:766:TYR:OH	1:D:773:GLU:HB3	2.18	0.42
1:D:1380:LYS:O	1:D:1525:PHE:CE2	2.72	0.42
1:D:1537:ILE:CG2	1:D:1538:ASP:N	2.81	0.42
1:E:440:LEU:HD11	1:E:444:ILE:HD11	2.00	0.42
1:E:883:VAL:CG1	1:E:884:ALA:N	2.82	0.42
1:E:1325:GLY:HA2	1:E:1566:GLY:N	2.34	0.42
1:A:233:GLN:O	1:A:237:LEU:HD12	2.19	0.42
1:A:664:THR:OG1	1:A:667:ILE:HG13	2.20	0.42
1:A:678:LEU:N	1:A:678:LEU:HD12	2.34	0.42
1:A:780:VAL:CG2	1:A:781:THR:N	2.81	0.42
1:A:832:ALA:C	1:A:834:GLN:H	2.22	0.42
1:B:227:ILE:HD13	1:B:883:VAL:CB	2.20	0.42
1:B:250:ILE:HD13	1:B:445:ARG:NH1	2.34	0.42
1:B:340:GLN:N	1:B:360:LYS:HB2	2.35	0.42
1:B:348:PHE:CE1	1:B:354:ARG:CB	3.00	0.42
1:B:378:LEU:HB3	1:B:395:ILE:HG21	2.00	0.42
1:B:660:ASN:H	1:B:757:GLN:NE2	2.16	0.42
1:B:678:LEU:HB2	1:B:731:TRP:CZ3	2.55	0.42
1:B:699:THR:CG2	1:B:700:LEU:N	2.81	0.42
1:C:538:LEU:CD1	1:C:578:ILE:HD13	2.49	0.42
1:C:678:LEU:HB2	1:C:731:TRP:CZ3	2.54	0.42
1:C:730:PHE:CE1	1:C:755:TYR:CD2	3.06	0.42
1:C:785:MET:HB3	1:C:825:PHE:CE2	2.54	0.42
1:C:1325:GLY:HA2	1:C:1566:GLY:N	2.34	0.42
1:C:1351:ILE:HG22	1:C:1537:ILE:O	2.19	0.42
1:D:247:LEU:HD23	1:D:247:LEU:C	2.37	0.42
1:D:250:ILE:HD13	1:D:445:ARG:NH1	2.34	0.42
1:D:653:ILE:CD1	1:D:764:MET:SD	3.07	0.42
1:D:678:LEU:HB2	1:D:731:TRP:CZ3	2.54	0.42
1:D:1325:GLY:HA2	1:D:1566:GLY:HA2	2.01	0.42
1:D:1329:LEU:HD21	1:D:1563:ARG:NH2	2.35	0.42
1:D:1509:GLN:NE2	1:D:1538:ASP:HB2	2.34	0.42
1:E:273:PRO:CD	1:E:434:TYR:CE1	3.02	0.42
1:E:593:LEU:HA	1:E:596:ASP:HB2	2.02	0.42
1:E:612:VAL:CG2	1:E:633:LYS:HE2	2.42	0.42
1:E:1527:GLU:CG	1:E:1528:MET:N	2.83	0.42
1:A:678:LEU:HB2	1:A:731:TRP:CZ3	2.55	0.42
1:A:883:VAL:CG1	1:A:884:ALA:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1325:GLY:HA2	1:A:1566:GLY:HA2	2.01	0.42
1:A:1380:LYS:O	1:A:1525:PHE:HE2	2.02	0.42
1:A:1555:PHE:CE1	1:A:1570:PHE:CE1	3.07	0.42
1:B:414:LEU:CD1	1:B:417:GLY:N	2.82	0.42
1:B:460:ILE:O	1:B:464:VAL:HG22	2.19	0.42
1:B:593:LEU:HA	1:B:596:ASP:HB2	2.02	0.42
1:B:789:ALA:CB	1:B:792:ALA:CB	2.93	0.42
1:B:1312:ILE:HD13	1:B:1574:VAL:HG13	1.96	0.42
1:C:271:ILE:O	1:C:271:ILE:HG13	2.18	0.42
1:C:342:ASP:HB2	1:C:358:LYS:HG3	1.96	0.42
1:C:518:LEU:HD11	1:C:589:TYR:CZ	2.53	0.42
1:C:594:LEU:CD1	1:C:634:LEU:HD12	2.49	0.42
1:C:653:ILE:CD1	1:C:764:MET:SD	3.07	0.42
1:C:691:VAL:CG1	1:C:692:MET:N	2.82	0.42
1:C:1316:VAL:CG2	1:C:1573:PRO:HD2	2.49	0.42
1:C:1325:GLY:HA2	1:C:1566:GLY:HA2	2.01	0.42
1:C:1329:LEU:HD21	1:C:1563:ARG:NH2	2.34	0.42
1:D:255:ILE:HG22	1:D:439:LYS:HE3	2.00	0.42
1:D:538:LEU:CD1	1:D:578:ILE:HD13	2.49	0.42
1:D:604:GLU:O	1:D:648:VAL:HG11	2.19	0.42
1:D:689:LEU:HB3	1:D:709:HIS:NE2	2.34	0.42
1:E:233:GLN:O	1:E:236:LEU:HB2	2.20	0.42
1:E:282:LEU:HD22	1:E:286:TYR:HE2	1.84	0.42
1:E:358:LYS:HB3	1:E:390:GLU:HG3	2.01	0.42
1:E:414:LEU:CD1	1:E:416:SER:H	2.31	0.42
1:E:692:MET:SD	1:E:696:ILE:CG2	3.07	0.42
1:E:832:ALA:C	1:E:834:GLN:H	2.22	0.42
1:E:1339:THR:CG2	1:E:1340:ILE:N	2.82	0.42
1:E:1380:LYS:O	1:E:1525:PHE:HE2	2.02	0.42
1:A:604:GLU:O	1:A:648:VAL:HG11	2.19	0.42
1:A:785:MET:HB3	1:A:825:PHE:CE2	2.54	0.42
1:A:1452:ILE:N	1:A:1452:ILE:CD1	2.83	0.42
1:B:493:GLU:HG3	1:B:494:THR:N	2.33	0.42
1:B:692:MET:SD	1:B:696:ILE:CG2	3.07	0.42
1:B:1329:LEU:HD21	1:B:1563:ARG:NH2	2.35	0.42
1:B:1391:LEU:HD21	1:B:1483:VAL:HG12	1.96	0.42
1:C:218:LEU:HD11	1:C:239:ILE:HG21	1.94	0.42
1:C:272:GLU:HB2	1:C:1519:ILE:CD1	2.49	0.42
1:C:515:PHE:CZ	1:C:530:SER:HB2	2.54	0.42
1:C:664:THR:OG1	1:C:667:ILE:HG13	2.20	0.42
1:C:678:LEU:N	1:C:678:LEU:HD12	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:780:VAL:CG2	1:C:781:THR:N	2.81	0.42
1:C:1363:GLY:O	1:C:1369:ARG:HD3	2.19	0.42
1:D:264:TYR:CD2	1:D:434:TYR:O	2.72	0.42
1:D:319:ASN:CG	1:D:322:ASP:HB2	2.38	0.42
1:D:358:LYS:HB3	1:D:390:GLU:HG3	2.02	0.42
1:D:414:LEU:CD1	1:D:416:SER:H	2.31	0.42
1:D:460:ILE:O	1:D:464:VAL:HG22	2.19	0.42
1:D:714:TRP:CE3	1:D:776:PHE:CZ	3.07	0.42
1:D:832:ALA:C	1:D:834:GLN:H	2.22	0.42
1:D:1339:THR:CG2	1:D:1340:ILE:N	2.82	0.42
1:D:1353:ILE:CG2	1:D:1354:SER:N	2.82	0.42
1:D:1386:ILE:HG12	1:D:1488:GLU:HG2	2.02	0.42
1:E:250:ILE:HD13	1:E:445:ARG:NH1	2.34	0.42
1:E:604:GLU:O	1:E:648:VAL:HG11	2.19	0.42
1:E:678:LEU:HB2	1:E:731:TRP:CZ3	2.55	0.42
1:E:678:LEU:HD12	1:E:678:LEU:N	2.34	0.42
1:E:691:VAL:CG1	1:E:692:MET:N	2.83	0.42
1:E:714:TRP:CE3	1:E:776:PHE:CZ	3.07	0.42
1:E:1325:GLY:HA2	1:E:1566:GLY:HA2	2.01	0.42
1:E:1489:ILE:HG12	1:E:1563:ARG:HH22	1.83	0.42
1:A:264:TYR:CD2	1:A:434:TYR:O	2.72	0.42
1:A:340:GLN:N	1:A:360:LYS:HB2	2.35	0.42
1:A:456:ILE:CG2	1:A:457:LEU:N	2.82	0.42
1:A:623:SER:N	1:A:626:GLN:CG	2.82	0.42
1:B:273:PRO:CD	1:B:434:TYR:CE1	3.02	0.42
1:B:714:TRP:CE3	1:B:776:PHE:CZ	3.07	0.42
1:B:785:MET:HB3	1:B:825:PHE:CE2	2.54	0.42
1:B:1316:VAL:CG2	1:B:1573:PRO:HD2	2.49	0.42
1:B:1325:GLY:HA2	1:B:1566:GLY:HA2	2.02	0.42
1:B:1325:GLY:HA2	1:B:1566:GLY:N	2.34	0.42
1:C:689:LEU:CB	1:C:709:HIS:NE2	2.83	0.42
1:C:1312:ILE:CD1	1:C:1574:VAL:CG1	2.95	0.42
1:C:1555:PHE:CE1	1:C:1570:PHE:CE1	3.07	0.42
1:D:234:ALA:HA	1:D:237:LEU:HD13	2.01	0.42
1:D:271:ILE:O	1:D:271:ILE:HG13	2.18	0.42
1:D:367:TYR:CG	1:D:380:ARG:NH2	2.87	0.42
1:D:440:LEU:HD13	1:D:440:LEU:C	2.40	0.42
1:D:503:ILE:HB	1:D:582:LEU:CD1	2.47	0.42
1:D:515:PHE:CZ	1:D:530:SER:HB2	2.54	0.42
1:D:643:THR:CG2	1:D:644:GLN:N	2.83	0.42
1:D:1367:GLN:HA	1:D:1370:ASN:ND2	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1380:LYS:O	1:D:1525:PHE:HE2	2.02	0.42
1:E:414:LEU:CD1	1:E:417:GLY:N	2.82	0.42
1:E:515:PHE:HZ	1:E:528:TYR:CD2	2.38	0.42
1:E:612:VAL:HG13	1:E:613:GLY:N	2.35	0.42
1:E:623:SER:N	1:E:626:GLN:CG	2.82	0.42
1:E:659:TYR:CB	1:E:757:GLN:HB2	2.50	0.42
1:E:1351:ILE:HG22	1:E:1537:ILE:O	2.19	0.42
1:E:1353:ILE:CG2	1:E:1354:SER:N	2.82	0.42
1:E:1452:ILE:H	1:E:1452:ILE:CD1	2.33	0.42
1:A:237:LEU:HG	1:A:479:PHE:CB	2.31	0.42
1:A:255:ILE:HG22	1:A:439:LYS:HE3	2.00	0.42
1:A:440:LEU:HD11	1:A:444:ILE:HD11	2.00	0.42
1:A:460:ILE:O	1:A:464:VAL:HG22	2.19	0.42
1:A:497:ILE:HD12	1:A:503:ILE:CD1	2.48	0.42
1:A:497:ILE:HG13	1:A:501:ALA:O	2.19	0.42
1:B:218:LEU:HD11	1:B:239:ILE:HG21	1.94	0.42
1:B:220:GLN:HG2	1:B:886:GLN:CD	2.40	0.42
1:B:272:GLU:HB2	1:B:1519:ILE:CD1	2.49	0.42
1:B:612:VAL:HG13	1:B:613:GLY:N	2.35	0.42
1:B:664:THR:OG1	1:B:667:ILE:HG13	2.20	0.42
1:B:762:LEU:O	1:B:762:LEU:HD13	2.20	0.42
1:B:1509:GLN:NE2	1:B:1538:ASP:HB2	2.34	0.42
1:C:414:LEU:CD1	1:C:417:GLY:N	2.82	0.42
1:C:446:LEU:CD1	1:C:470:ILE:HD13	2.38	0.42
1:C:600:LEU:CD2	1:C:648:VAL:HG21	2.50	0.42
1:C:612:VAL:HG11	1:C:614:GLU:HG2	2.01	0.42
1:D:497:ILE:HG13	1:D:501:ALA:O	2.19	0.42
1:D:515:PHE:HZ	1:D:528:TYR:CD2	2.37	0.42
1:D:612:VAL:HG11	1:D:614:GLU:HG2	2.01	0.42
1:D:664:THR:OG1	1:D:667:ILE:HG13	2.20	0.42
1:D:678:LEU:HD12	1:D:678:LEU:N	2.34	0.42
1:D:689:LEU:CB	1:D:709:HIS:NE2	2.83	0.42
1:D:859:LEU:O	1:D:861:PRO:HD3	2.20	0.42
1:D:1452:ILE:N	1:D:1452:ILE:CD1	2.83	0.42
1:E:446:LEU:CD1	1:E:470:ILE:HD13	2.39	0.42
1:E:594:LEU:CD1	1:E:634:LEU:HD12	2.49	0.42
1:E:643:THR:CG2	1:E:644:GLN:N	2.83	0.42
1:E:674:VAL:HG13	1:E:678:LEU:CD1	2.43	0.42
1:E:689:LEU:HB3	1:E:709:HIS:NE2	2.34	0.42
1:E:1360:ILE:CG2	1:E:1361:HIS:N	2.82	0.42
1:E:1386:ILE:HG12	1:E:1488:GLU:HG2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:273:PRO:CD	1:A:434:TYR:CE1	3.02	0.42
1:A:318:VAL:O	1:A:318:VAL:HG23	2.20	0.42
1:A:446:LEU:CD1	1:A:470:ILE:HD13	2.38	0.42
1:A:600:LEU:CG	1:A:648:VAL:HG21	2.46	0.42
1:A:689:LEU:CB	1:A:709:HIS:NE2	2.83	0.42
1:A:789:ALA:CB	1:A:792:ALA:CB	2.93	0.42
1:B:296:PHE:CZ	1:B:447:SER:CB	2.94	0.42
1:B:689:LEU:CB	1:B:709:HIS:NE2	2.83	0.42
1:B:1375:MET:HE3	1:B:1525:PHE:HE1	1.85	0.42
1:B:1500:ILE:HD11	1:B:1532:PHE:CG	2.54	0.42
1:C:220:GLN:HG2	1:C:886:GLN:CD	2.40	0.42
1:C:264:TYR:CD2	1:C:434:TYR:O	2.72	0.42
1:C:273:PRO:CD	1:C:434:TYR:CE1	3.02	0.42
1:C:593:LEU:HA	1:C:596:ASP:HB2	2.02	0.42
1:C:832:ALA:C	1:C:834:GLN:H	2.22	0.42
1:C:1315:SER:O	1:C:1316:VAL:CG2	2.67	0.42
1:D:341:MET:HE1	1:D:410:LEU:CB	2.39	0.42
1:D:562:LEU:HA	1:D:565:LEU:HD12	2.02	0.42
1:D:593:LEU:HA	1:D:596:ASP:HB2	2.02	0.42
1:D:1360:ILE:CG2	1:D:1361:HIS:N	2.82	0.42
1:E:220:GLN:HG2	1:E:886:GLN:CD	2.40	0.42
1:E:264:TYR:CD1	1:E:264:TYR:O	2.73	0.42
1:E:859:LEU:O	1:E:861:PRO:HD3	2.20	0.42
1:E:1380:LYS:O	1:E:1525:PHE:CE2	2.72	0.42
1:A:220:GLN:HG2	1:A:886:GLN:CD	2.40	0.42
1:A:233:GLN:O	1:A:236:LEU:HB2	2.20	0.42
1:A:250:ILE:HD13	1:A:445:ARG:NH1	2.34	0.42
1:A:310:ASN:HD21	1:A:455:THR:HA	1.85	0.42
1:A:498:LEU:CD1	1:A:593:LEU:HD23	2.38	0.42
1:A:593:LEU:HA	1:A:596:ASP:HB2	2.02	0.42
1:A:1325:GLY:HA2	1:A:1566:GLY:N	2.34	0.42
1:B:456:ILE:CG2	1:B:457:LEU:N	2.82	0.42
1:B:654:MET:HE1	1:B:765:VAL:HG13	2.02	0.42
1:B:661:LYS:CA	1:B:753:VAL:HG11	2.44	0.42
1:B:1311:GLU:O	1:B:1575:THR:HB	2.20	0.42
1:B:1408:TYR:CG	1:B:1467:LEU:CD1	2.99	0.42
1:C:251:LEU:HD21	1:C:470:ILE:CD1	2.50	0.42
1:C:853:ALA:HA	1:C:880:TRP:NE1	2.33	0.42
1:C:1360:ILE:CG2	1:C:1361:HIS:N	2.82	0.42
1:C:1406:PRO:HG3	1:C:1473:MET:CE	2.16	0.42
1:D:220:GLN:HG2	1:D:886:GLN:CD	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:883:VAL:CG1	1:D:884:ALA:N	2.82	0.42
1:D:1452:ILE:H	1:D:1452:ILE:CD1	2.33	0.42
1:E:259:ASN:HB3	1:E:263:LEU:HD11	1.98	0.42
1:E:562:LEU:HA	1:E:565:LEU:HD12	2.02	0.42
1:E:583:LYS:H	1:E:583:LYS:HD2	1.85	0.42
1:E:664:THR:OG1	1:E:667:ILE:HG13	2.20	0.42
1:E:689:LEU:CB	1:E:709:HIS:NE2	2.83	0.42
1:E:713:LEU:CD1	1:E:781:THR:CG2	2.94	0.42
1:E:1521:PRO:HG2	1:E:1530:TYR:CE1	2.55	0.42
1:A:264:TYR:CD2	1:A:434:TYR:HB3	2.55	0.42
1:A:524:LEU:CG	1:A:550:ILE:HD13	2.50	0.42
1:A:594:LEU:CD1	1:A:634:LEU:HD12	2.49	0.42
1:A:612:VAL:HG13	1:A:613:GLY:N	2.35	0.42
1:A:659:TYR:CB	1:A:757:GLN:HB2	2.50	0.42
1:A:753:VAL:O	1:A:753:VAL:HG12	2.17	0.42
1:A:1316:VAL:CG2	1:A:1573:PRO:HD2	2.49	0.42
1:A:1329:LEU:HD21	1:A:1563:ARG:NH2	2.35	0.42
1:A:1380:LYS:O	1:A:1525:PHE:CE2	2.72	0.42
1:A:1386:ILE:HG12	1:A:1488:GLU:HG2	2.02	0.42
1:A:1527:GLU:CG	1:A:1528:MET:N	2.83	0.42
1:B:524:LEU:CG	1:B:550:ILE:HD13	2.50	0.42
1:B:831:THR:CG2	1:B:832:ALA:N	2.82	0.42
1:B:1324:TRP:C	1:B:1566:GLY:HA2	2.40	0.42
1:C:612:VAL:HG13	1:C:613:GLY:N	2.35	0.42
1:C:714:TRP:HZ3	1:C:776:PHE:CE1	2.29	0.42
1:C:762:LEU:HD13	1:C:762:LEU:O	2.20	0.42
1:C:1386:ILE:HG12	1:C:1488:GLU:HG2	2.02	0.42
1:C:1428:THR:HG21	1:C:1430:TYR:CE2	2.54	0.42
1:D:256:THR:CG2	1:D:257:GLU:N	2.82	0.42
1:D:327:VAL:HG11	1:D:436:PHE:CZ	2.52	0.42
1:D:594:LEU:CD1	1:D:634:LEU:HD12	2.49	0.42
1:D:771:ILE:CG2	1:D:772:ASN:N	2.82	0.42
1:D:1428:THR:HG21	1:D:1430:TYR:CE2	2.54	0.42
1:E:330:ILE:HG22	1:E:331:THR:N	2.35	0.42
1:E:341:MET:HE1	1:E:410:LEU:CB	2.40	0.42
1:E:654:MET:HE3	1:E:765:VAL:HG22	1.95	0.42
1:E:1363:GLY:O	1:E:1369:ARG:HD3	2.19	0.42
1:A:251:LEU:HD21	1:A:470:ILE:CB	2.50	0.42
1:A:692:MET:SD	1:A:696:ILE:CG2	3.07	0.42
1:A:1315:SER:O	1:A:1316:VAL:CG2	2.67	0.42
1:A:1428:THR:HG21	1:A:1430:TYR:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1452:ILE:H	1:A:1452:ILE:CD1	2.33	0.42
1:B:282:LEU:HD22	1:B:286:TYR:HE2	1.84	0.42
1:B:310:ASN:HD21	1:B:455:THR:CA	2.33	0.42
1:B:336:THR:O	1:B:337:ASN:HB2	2.19	0.42
1:B:538:LEU:CD1	1:B:578:ILE:HD13	2.49	0.42
1:B:659:TYR:CB	1:B:757:GLN:HB2	2.50	0.42
1:B:1360:ILE:CG2	1:B:1361:HIS:N	2.82	0.42
1:C:358:LYS:HB3	1:C:390:GLU:HG3	2.01	0.42
1:C:659:TYR:CB	1:C:757:GLN:HB2	2.50	0.42
1:C:883:VAL:CG1	1:C:884:ALA:N	2.82	0.42
1:C:1311:GLU:O	1:C:1575:THR:HB	2.20	0.42
1:C:1327:TYR:CE2	1:C:1563:ARG:CB	3.02	0.42
1:C:1358:ARG:HD2	1:C:1527:GLU:CG	2.50	0.42
1:D:274:ALA:HB3	1:D:1519:ILE:HG13	2.02	0.42
1:D:612:VAL:HG13	1:D:613:GLY:N	2.35	0.42
1:D:654:MET:HE3	1:D:765:VAL:HG13	2.02	0.42
1:D:1324:TRP:C	1:D:1566:GLY:HA2	2.41	0.42
1:E:1329:LEU:HD21	1:E:1563:ARG:NH2	2.35	0.42
1:A:618:ASN:ND2	1:A:620:SER:HB2	2.35	0.41
1:A:762:LEU:O	1:A:762:LEU:HD13	2.20	0.41
1:A:831:THR:CG2	1:A:832:ALA:N	2.82	0.41
1:A:832:ALA:O	1:A:833:GLU:HB2	2.21	0.41
1:A:1311:GLU:O	1:A:1575:THR:HB	2.20	0.41
1:A:1358:ARG:HD2	1:A:1527:GLU:CG	2.50	0.41
1:B:618:ASN:ND2	1:B:620:SER:HB2	2.35	0.41
1:B:883:VAL:CG1	1:B:884:ALA:N	2.82	0.41
1:C:275:SER:O	1:C:278:MET:HE2	2.20	0.41
1:C:336:THR:O	1:C:337:ASN:HB2	2.19	0.41
1:C:831:THR:CG2	1:C:832:ALA:N	2.82	0.41
1:D:233:GLN:O	1:D:236:LEU:HB2	2.20	0.41
1:D:659:TYR:CB	1:D:757:GLN:HB2	2.50	0.41
1:D:691:VAL:CG1	1:D:692:MET:N	2.82	0.41
1:E:275:SER:O	1:E:278:MET:HE2	2.20	0.41
1:E:318:VAL:O	1:E:318:VAL:HG23	2.20	0.41
1:E:515:PHE:CE2	1:E:528:TYR:CD2	2.95	0.41
1:A:251:LEU:HD21	1:A:470:ILE:CD1	2.50	0.41
1:A:803:MET:SD	1:A:804:LEU:HD23	2.61	0.41
1:A:883:VAL:O	1:A:887:LEU:HD13	2.19	0.41
1:A:1324:TRP:C	1:A:1566:GLY:HA2	2.40	0.41
1:A:1360:ILE:CG2	1:A:1361:HIS:N	2.82	0.41
1:A:1509:GLN:NE2	1:A:1538:ASP:HB2	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:604:GLU:O	1:B:648:VAL:HG11	2.19	0.41
1:B:832:ALA:C	1:B:834:GLN:H	2.22	0.41
1:B:1452:ILE:H	1:B:1452:ILE:CD1	2.33	0.41
1:C:340:GLN:N	1:C:360:LYS:HB2	2.35	0.41
1:C:529:PHE:CD2	1:C:547:ARG:NH2	2.87	0.41
1:C:562:LEU:HA	1:C:565:LEU:HD12	2.02	0.41
1:C:590:ILE:CG2	1:C:619:LEU:CD1	2.95	0.41
1:C:618:ASN:ND2	1:C:620:SER:HB2	2.35	0.41
1:C:623:SER:N	1:C:626:GLN:CG	2.82	0.41
1:C:692:MET:SD	1:C:696:ILE:HG23	2.61	0.41
1:C:699:THR:HG23	1:C:700:LEU:HD23	2.02	0.41
1:C:771:ILE:CG2	1:C:772:ASN:N	2.82	0.41
1:C:814:LEU:HD13	1:C:821:VAL:CG2	2.46	0.41
1:C:883:VAL:O	1:C:887:LEU:HD13	2.19	0.41
1:C:1380:LYS:O	1:C:1525:PHE:HE2	2.02	0.41
1:D:330:ILE:HG22	1:D:331:THR:N	2.35	0.41
1:D:618:ASN:ND2	1:D:620:SER:HB2	2.35	0.41
1:D:692:MET:SD	1:D:696:ILE:CG2	3.08	0.41
1:E:340:GLN:N	1:E:360:LYS:HB2	2.35	0.41
1:E:440:LEU:HD13	1:E:440:LEU:C	2.40	0.41
1:E:538:LEU:CD1	1:E:578:ILE:HD13	2.49	0.41
1:E:594:LEU:CD2	1:E:605:LEU:HD21	2.49	0.41
1:E:1324:TRP:C	1:E:1566:GLY:HA2	2.40	0.41
1:E:1375:MET:HE2	1:E:1525:PHE:CE1	2.55	0.41
1:E:1509:GLN:NE2	1:E:1538:ASP:HB2	2.34	0.41
1:A:358:LYS:HB3	1:A:390:GLU:HG3	2.02	0.41
1:A:562:LEU:HA	1:A:565:LEU:HD12	2.02	0.41
1:A:643:THR:CG2	1:A:644:GLN:N	2.83	0.41
1:B:480:LEU:O	1:B:484:TYR:CD2	2.74	0.41
1:B:503:ILE:HG21	1:B:515:PHE:CD1	2.53	0.41
1:B:583:LYS:HD2	1:B:583:LYS:H	1.85	0.41
1:B:643:THR:CG2	1:B:644:GLN:N	2.83	0.41
1:B:678:LEU:HD12	1:B:678:LEU:N	2.34	0.41
1:B:1386:ILE:HG12	1:B:1488:GLU:HG2	2.02	0.41
1:B:1452:ILE:N	1:B:1452:ILE:CD1	2.83	0.41
1:C:233:GLN:O	1:C:236:LEU:HB2	2.19	0.41
1:C:256:THR:CG2	1:C:257:GLU:N	2.82	0.41
1:C:310:ASN:HD21	1:C:455:THR:HA	1.85	0.41
1:C:440:LEU:HD13	1:C:440:LEU:C	2.40	0.41
1:C:1312:ILE:HD12	1:C:1574:VAL:CG1	2.50	0.41
1:D:251:LEU:HD21	1:D:470:ILE:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:310:ASN:HD21	1:D:455:THR:CA	2.33	0.41
1:D:464:VAL:CG2	1:D:465:ASN:N	2.82	0.41
1:D:832:ALA:O	1:D:833:GLU:HB2	2.21	0.41
1:E:480:LEU:O	1:E:484:TYR:CD2	2.74	0.41
1:E:524:LEU:CG	1:E:550:ILE:HD13	2.50	0.41
1:E:612:VAL:HG11	1:E:614:GLU:HG2	2.01	0.41
1:E:622:ILE:CG2	1:E:627:LEU:CG	2.99	0.41
1:E:1311:GLU:O	1:E:1575:THR:HB	2.20	0.41
1:E:1315:SER:O	1:E:1316:VAL:CG2	2.67	0.41
1:A:264:TYR:CD1	1:A:264:TYR:O	2.73	0.41
1:A:336:THR:O	1:A:337:ASN:HB2	2.19	0.41
1:A:555:PHE:HB3	1:A:557:ILE:CD1	2.51	0.41
1:A:594:LEU:HD11	1:A:630:LEU:HD22	2.02	0.41
1:A:1521:PRO:HG2	1:A:1530:TYR:CE1	2.55	0.41
1:B:255:ILE:CG2	1:B:439:LYS:CE	2.96	0.41
1:B:264:TYR:CD1	1:B:264:TYR:O	2.73	0.41
1:B:310:ASN:HD21	1:B:455:THR:HA	1.85	0.41
1:B:515:PHE:CZ	1:B:530:SER:HB2	2.54	0.41
1:B:555:PHE:HB3	1:B:557:ILE:CD1	2.51	0.41
1:B:689:LEU:HB3	1:B:709:HIS:HD2	1.78	0.41
1:B:1358:ARG:HD2	1:B:1527:GLU:CG	2.50	0.41
1:B:1363:GLY:O	1:B:1369:ARG:HD3	2.19	0.41
1:B:1378:TYR:HB2	1:B:1423:LEU:CD1	2.50	0.41
1:C:310:ASN:HD21	1:C:455:THR:CA	2.33	0.41
1:C:330:ILE:HG22	1:C:331:THR:N	2.35	0.41
1:C:355:LEU:CD1	1:C:357:TYR:CD1	2.95	0.41
1:C:569:THR:CG2	1:C:587:ASN:CB	2.93	0.41
1:C:604:GLU:O	1:C:648:VAL:HG11	2.19	0.41
1:C:1324:TRP:C	1:C:1566:GLY:HA2	2.40	0.41
1:C:1452:ILE:H	1:C:1452:ILE:CD1	2.33	0.41
1:D:803:MET:SD	1:D:804:LEU:HD23	2.61	0.41
1:D:1358:ARG:HD2	1:D:1527:GLU:CG	2.50	0.41
1:E:264:TYR:CD2	1:E:434:TYR:O	2.72	0.41
1:E:692:MET:SD	1:E:696:ILE:HG23	2.61	0.41
1:E:883:VAL:O	1:E:887:LEU:HD13	2.19	0.41
1:A:480:LEU:O	1:A:484:TYR:CD2	2.74	0.41
1:A:569:THR:CG2	1:A:587:ASN:CB	2.93	0.41
1:A:691:VAL:CG1	1:A:692:MET:N	2.82	0.41
1:A:1387:VAL:CG2	1:A:1489:ILE:HD11	2.51	0.41
1:B:600:LEU:CD2	1:B:648:VAL:HG21	2.50	0.41
1:B:622:ILE:HG23	1:B:627:LEU:HG	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:691:VAL:CG1	1:B:692:MET:N	2.82	0.41
1:B:733:TRP:HZ3	1:B:734:LEU:CD2	2.29	0.41
1:B:1380:LYS:O	1:B:1525:PHE:HE2	2.02	0.41
1:B:1521:PRO:HG2	1:B:1530:TYR:CE1	2.55	0.41
1:C:480:LEU:O	1:C:484:TYR:CD2	2.74	0.41
1:C:555:PHE:HB3	1:C:557:ILE:CD1	2.51	0.41
1:C:583:LYS:HD2	1:C:583:LYS:H	1.85	0.41
1:C:832:ALA:O	1:C:833:GLU:HB2	2.21	0.41
1:C:1521:PRO:HG2	1:C:1530:TYR:CE1	2.55	0.41
1:D:243:ILE:CD1	1:D:475:LEU:HD12	2.51	0.41
1:D:282:LEU:HD22	1:D:286:TYR:HE2	1.84	0.41
1:D:409:GLY:HA2	1:D:423:ALA:HB2	2.02	0.41
1:D:1311:GLU:O	1:D:1575:THR:HB	2.20	0.41
1:D:1312:ILE:CD1	1:D:1574:VAL:CG1	2.95	0.41
1:E:218:LEU:CG	1:E:239:ILE:HG21	2.51	0.41
1:E:243:ILE:CD1	1:E:475:LEU:HD12	2.51	0.41
1:E:348:PHE:CZ	1:E:354:ARG:HD3	2.56	0.41
1:E:600:LEU:CD2	1:E:648:VAL:HG21	2.50	0.41
1:E:1358:ARG:HD2	1:E:1527:GLU:CG	2.50	0.41
1:A:255:ILE:HD12	1:A:442:LYS:HZ3	1.85	0.41
1:A:330:ILE:HG22	1:A:331:THR:N	2.35	0.41
1:A:348:PHE:CZ	1:A:354:ARG:HD3	2.56	0.41
1:A:612:VAL:CG1	1:A:613:GLY:N	2.84	0.41
1:A:771:ILE:CG2	1:A:772:ASN:N	2.82	0.41
1:A:852:GLN:O	1:A:880:TRP:CZ2	2.74	0.41
1:A:1536:GLU:H	1:A:1536:GLU:CD	2.24	0.41
1:B:692:MET:SD	1:B:696:ILE:HG23	2.61	0.41
1:B:859:LEU:H	1:B:859:LEU:CD1	2.34	0.41
1:B:859:LEU:O	1:B:861:PRO:HD3	2.20	0.41
1:C:275:SER:HA	1:C:278:MET:HE2	2.00	0.41
1:C:409:GLY:HA2	1:C:423:ALA:HB2	2.02	0.41
1:C:859:LEU:O	1:C:861:PRO:HD3	2.20	0.41
1:C:1479:THR:HG22	1:C:1480:ALA:N	2.34	0.41
1:D:264:TYR:CD1	1:D:264:TYR:O	2.73	0.41
1:D:340:GLN:N	1:D:360:LYS:HB2	2.35	0.41
1:D:348:PHE:CZ	1:D:354:ARG:HD3	2.56	0.41
1:D:692:MET:SD	1:D:696:ILE:HG23	2.61	0.41
1:D:1387:VAL:CG2	1:D:1489:ILE:HD11	2.51	0.41
1:D:1521:PRO:HG2	1:D:1530:TYR:CE1	2.55	0.41
1:E:418:SER:HB2	1:E:419:TRP:HE3	1.86	0.41
1:E:464:VAL:CG2	1:E:465:ASN:N	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:687:ASP:HB3	1:E:690:HIS:CB	2.51	0.41
1:E:1536:GLU:CD	1:E:1536:GLU:H	2.24	0.41
1:A:440:LEU:HD13	1:A:440:LEU:C	2.40	0.41
1:A:447:SER:HG	1:A:454:PRO:HG3	1.85	0.41
1:A:612:VAL:HG11	1:A:614:GLU:HG2	2.02	0.41
1:A:859:LEU:O	1:A:861:PRO:HD3	2.20	0.41
1:A:1316:VAL:HG21	1:A:1573:PRO:HD2	2.03	0.41
1:A:1378:TYR:HB2	1:A:1423:LEU:CD1	2.51	0.41
1:B:243:ILE:CD1	1:B:475:LEU:HD12	2.51	0.41
1:B:251:LEU:HD21	1:B:446:LEU:HD21	2.01	0.41
1:B:522:PRO:O	1:B:523:LEU:HD23	2.21	0.41
1:B:569:THR:CG2	1:B:587:ASN:CB	2.93	0.41
1:B:612:VAL:HG11	1:B:614:GLU:HG2	2.01	0.41
1:B:622:ILE:CG2	1:B:627:LEU:CG	2.99	0.41
1:B:671:LEU:HD23	1:B:738:TYR:CD2	2.56	0.41
1:B:1500:ILE:CD1	1:B:1532:PHE:CD2	3.04	0.41
1:C:218:LEU:CG	1:C:239:ILE:HG21	2.51	0.41
1:C:255:ILE:CG2	1:C:439:LYS:CE	2.96	0.41
1:C:264:TYR:CD1	1:C:264:TYR:O	2.73	0.41
1:C:687:ASP:HB3	1:C:690:HIS:CB	2.51	0.41
1:C:810:TRP:O	1:C:814:LEU:HG	2.21	0.41
1:C:1500:ILE:CD1	1:C:1532:PHE:CD2	3.04	0.41
1:D:671:LEU:HD23	1:D:738:TYR:CD2	2.56	0.41
1:D:1479:THR:HG22	1:D:1480:ALA:N	2.34	0.41
1:D:1536:GLU:H	1:D:1536:GLU:CD	2.24	0.41
1:E:555:PHE:HB3	1:E:557:ILE:CD1	2.51	0.41
1:E:671:LEU:HD23	1:E:738:TYR:CD2	2.56	0.41
1:E:1316:VAL:HG21	1:E:1573:PRO:HD2	2.03	0.41
1:A:600:LEU:CD2	1:A:648:VAL:HG21	2.50	0.41
1:A:640:TRP:HH2	1:A:646:TRP:CZ3	2.39	0.41
1:A:657:THR:O	1:A:659:TYR:CD2	2.74	0.41
1:A:671:LEU:HD23	1:A:738:TYR:CD2	2.56	0.41
1:A:786:PHE:HZ	1:A:807:PHE:CE2	2.39	0.41
1:A:1312:ILE:HD12	1:A:1574:VAL:CG1	2.50	0.41
1:A:1325:GLY:HA2	1:A:1566:GLY:CA	2.51	0.41
1:A:1339:THR:CG2	1:A:1340:ILE:N	2.82	0.41
1:A:1420:GLY:CA	1:A:1462:ASN:ND2	2.84	0.41
1:B:251:LEU:HD11	1:B:470:ILE:CB	2.51	0.41
1:B:358:LYS:HB3	1:B:390:GLU:HG3	2.01	0.41
1:B:594:LEU:CD2	1:B:605:LEU:HD21	2.49	0.41
1:B:687:ASP:HB3	1:B:690:HIS:CB	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:699:THR:HG23	1:B:700:LEU:HD23	2.02	0.41
1:B:1316:VAL:HG11	1:B:1573:PRO:CD	2.26	0.41
1:B:1325:GLY:HA2	1:B:1566:GLY:CA	2.51	0.41
1:B:1387:VAL:CG2	1:B:1489:ILE:HD11	2.51	0.41
1:C:251:LEU:HD21	1:C:470:ILE:CB	2.50	0.41
1:C:590:ILE:HB	1:C:619:LEU:CD1	2.42	0.41
1:C:640:TRP:HH2	1:C:646:TRP:CZ3	2.39	0.41
1:C:859:LEU:H	1:C:859:LEU:CD1	2.34	0.41
1:D:318:VAL:O	1:D:318:VAL:HG23	2.20	0.41
1:D:524:LEU:CG	1:D:550:ILE:HD13	2.50	0.41
1:D:594:LEU:HD11	1:D:630:LEU:HD22	2.02	0.41
1:D:600:LEU:CD2	1:D:648:VAL:HG21	2.50	0.41
1:E:274:ALA:HB3	1:E:1519:ILE:HG13	2.03	0.41
1:E:618:ASN:ND2	1:E:620:SER:HB2	2.35	0.41
1:E:1428:THR:HG21	1:E:1430:TYR:CE2	2.55	0.41
1:E:1576:LEU:CG	1:E:1577:LYS:H	2.17	0.41
1:A:251:LEU:HD11	1:A:470:ILE:CB	2.51	0.41
1:A:275:SER:HA	1:A:278:MET:HE2	1.99	0.41
1:A:409:GLY:HA2	1:A:423:ALA:HB2	2.02	0.41
1:A:418:SER:HB2	1:A:419:TRP:HE3	1.86	0.41
1:A:451:GLU:O	1:A:451:GLU:HG2	2.21	0.41
1:A:488:TYR:CE1	1:A:597:ILE:O	2.74	0.41
1:A:522:PRO:O	1:A:523:LEU:HD23	2.21	0.41
1:A:549:THR:CA	1:A:552:LYS:HE3	2.31	0.41
1:A:692:MET:SD	1:A:696:ILE:HG23	2.61	0.41
1:A:699:THR:HG23	1:A:700:LEU:HD23	2.02	0.41
1:A:781:THR:C	1:A:782:LYS:HD2	2.42	0.41
1:A:859:LEU:H	1:A:859:LEU:CD1	2.34	0.41
1:A:1312:ILE:HD13	1:A:1574:VAL:HG13	1.96	0.41
1:A:1353:ILE:CG2	1:A:1354:SER:N	2.82	0.41
1:A:1500:ILE:CD1	1:A:1532:PHE:CD2	3.04	0.41
1:B:251:LEU:HD21	1:B:470:ILE:CB	2.50	0.41
1:B:348:PHE:CZ	1:B:354:ARG:HD3	2.56	0.41
1:B:464:VAL:CG2	1:B:465:ASN:N	2.83	0.41
1:B:488:TYR:CE1	1:B:597:ILE:O	2.74	0.41
1:B:529:PHE:CD2	1:B:547:ARG:NH2	2.87	0.41
1:B:562:LEU:HA	1:B:565:LEU:HD12	2.02	0.41
1:B:590:ILE:HB	1:B:619:LEU:CD1	2.42	0.41
1:B:671:LEU:HD22	1:B:738:TYR:CE2	2.56	0.41
1:B:714:TRP:HD1	1:B:718:LEU:HG	1.82	0.41
1:B:771:ILE:CG2	1:B:772:ASN:N	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:259:ASN:CB	1:C:263:LEU:HD13	2.39	0.41
1:C:264:TYR:CD2	1:C:434:TYR:HB3	2.55	0.41
1:C:318:VAL:HG23	1:C:318:VAL:O	2.20	0.41
1:C:348:PHE:CZ	1:C:354:ARG:HD3	2.56	0.41
1:C:488:TYR:CE1	1:C:597:ILE:O	2.74	0.41
1:C:503:ILE:HG21	1:C:515:PHE:CD1	2.53	0.41
1:C:643:THR:CG2	1:C:644:GLN:N	2.83	0.41
1:C:671:LEU:HD22	1:C:738:TYR:CE2	2.56	0.41
1:C:733:TRP:HZ3	1:C:734:LEU:CD2	2.29	0.41
1:C:781:THR:C	1:C:782:LYS:HD2	2.42	0.41
1:C:803:MET:SD	1:C:804:LEU:HD23	2.61	0.41
1:C:803:MET:HA	1:C:806:ARG:HG2	2.03	0.41
1:C:1306:TYR:CD1	1:C:1306:TYR:C	2.94	0.41
1:C:1380:LYS:C	1:C:1525:PHE:CE2	2.95	0.41
1:C:1527:GLU:CG	1:C:1528:MET:N	2.83	0.41
1:D:488:TYR:CE1	1:D:597:ILE:O	2.74	0.41
1:D:522:PRO:O	1:D:523:LEU:HD23	2.21	0.41
1:D:583:LYS:H	1:D:583:LYS:HD2	1.85	0.41
1:D:670:LEU:HG	1:D:699:THR:CB	2.50	0.41
1:D:687:ASP:HB3	1:D:690:HIS:CB	2.51	0.41
1:D:762:LEU:O	1:D:762:LEU:HD13	2.20	0.41
1:D:803:MET:HA	1:D:806:ARG:HG2	2.03	0.41
1:D:1306:TYR:CD1	1:D:1306:TYR:C	2.94	0.41
1:D:1380:LYS:C	1:D:1525:PHE:CE2	2.95	0.41
1:D:1527:GLU:CG	1:D:1528:MET:N	2.83	0.41
1:E:251:LEU:HD21	1:E:470:ILE:CB	2.50	0.41
1:E:251:LEU:HD21	1:E:446:LEU:HD21	2.01	0.41
1:E:295:GLN:O	1:E:454:PRO:HB2	2.21	0.41
1:E:447:SER:HG	1:E:454:PRO:HG3	1.83	0.41
1:E:515:PHE:CZ	1:E:530:SER:HB2	2.54	0.41
1:E:524:LEU:HD21	1:E:549:THR:O	2.21	0.41
1:E:549:THR:CA	1:E:552:LYS:HE3	2.31	0.41
1:E:659:TYR:HB3	1:E:754:GLN:CA	2.39	0.41
1:E:699:THR:HG23	1:E:700:LEU:HD23	2.02	0.41
1:E:762:LEU:O	1:E:762:LEU:HD13	2.20	0.41
1:E:789:ALA:CB	1:E:792:ALA:CB	2.93	0.41
1:E:810:TRP:O	1:E:814:LEU:HG	2.21	0.41
1:E:847:LEU:HD13	1:E:847:LEU:C	2.41	0.41
1:E:1380:LYS:C	1:E:1525:PHE:CD2	2.94	0.41
1:E:1380:LYS:C	1:E:1525:PHE:CE2	2.95	0.41
1:E:1452:ILE:N	1:E:1452:ILE:CD1	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1490:ASN:CG	1:E:1560:GLU:HB3	2.42	0.41
1:A:259:ASN:O	1:A:263:LEU:HD13	2.21	0.41
1:A:670:LEU:HG	1:A:699:THR:CB	2.50	0.41
1:A:687:ASP:HB3	1:A:690:HIS:CB	2.51	0.41
1:A:810:TRP:O	1:A:814:LEU:HG	2.21	0.41
1:A:1380:LYS:C	1:A:1525:PHE:CD2	2.94	0.41
1:B:274:ALA:HB2	1:B:325:VAL:HG21	2.03	0.41
1:B:409:GLY:HA2	1:B:423:ALA:HB2	2.02	0.41
1:B:781:THR:C	1:B:782:LYS:HD2	2.42	0.41
1:B:1315:SER:O	1:B:1316:VAL:CG2	2.67	0.41
1:B:1527:GLU:CG	1:B:1528:MET:N	2.83	0.41
1:C:274:ALA:HB2	1:C:325:VAL:HG21	2.03	0.41
1:C:522:PRO:O	1:C:523:LEU:HD23	2.21	0.41
1:C:622:ILE:HG23	1:C:627:LEU:HG	2.03	0.41
1:C:657:THR:O	1:C:659:TYR:CD2	2.74	0.41
1:C:786:PHE:HZ	1:C:807:PHE:CE2	2.39	0.41
1:C:810:TRP:CE2	1:C:878:LEU:HD11	2.56	0.41
1:C:1380:LYS:C	1:C:1525:PHE:CD2	2.94	0.41
1:C:1500:ILE:HD11	1:C:1532:PHE:CG	2.54	0.41
1:C:1502:VAL:CG1	1:C:1503:LYS:N	2.84	0.41
1:D:622:ILE:CG1	1:D:626:GLN:CG	2.94	0.41
1:D:847:LEU:HD13	1:D:847:LEU:C	2.41	0.41
1:D:1325:GLY:HA2	1:D:1566:GLY:CA	2.51	0.41
1:D:1380:LYS:C	1:D:1525:PHE:CD2	2.94	0.41
1:E:522:PRO:O	1:E:523:LEU:HD23	2.21	0.41
1:E:657:THR:O	1:E:659:TYR:CD2	2.74	0.41
1:E:803:MET:SD	1:E:804:LEU:HD23	2.61	0.41
1:E:852:GLN:O	1:E:880:TRP:CZ2	2.74	0.41
1:E:1306:TYR:CD1	1:E:1306:TYR:C	2.95	0.41
1:E:1387:VAL:HG13	1:E:1489:ILE:HD12	2.03	0.41
1:E:1502:VAL:CG1	1:E:1503:LYS:N	2.84	0.41
1:A:243:ILE:CD1	1:A:475:LEU:HD12	2.51	0.40
1:A:538:LEU:CD1	1:A:578:ILE:HD13	2.49	0.40
1:A:589:TYR:CD2	1:A:593:LEU:HD13	2.56	0.40
1:A:1380:LYS:C	1:A:1525:PHE:CE2	2.95	0.40
1:B:318:VAL:O	1:B:318:VAL:HG23	2.20	0.40
1:B:468:LEU:N	1:B:468:LEU:CD1	2.84	0.40
1:B:612:VAL:CG1	1:B:613:GLY:N	2.84	0.40
1:B:657:THR:O	1:B:659:TYR:CD2	2.74	0.40
1:B:674:VAL:HG13	1:B:678:LEU:CD1	2.43	0.40
1:B:810:TRP:O	1:B:814:LEU:HG	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1316:VAL:CB	1:B:1573:PRO:HD2	2.51	0.40
1:B:1327:TYR:CE2	1:B:1563:ARG:CB	3.02	0.40
1:B:1380:LYS:C	1:B:1525:PHE:CD2	2.94	0.40
1:C:295:GLN:O	1:C:454:PRO:HB2	2.21	0.40
1:C:524:LEU:HD21	1:C:549:THR:O	2.21	0.40
1:C:524:LEU:CG	1:C:550:ILE:HD13	2.50	0.40
1:C:852:GLN:O	1:C:880:TRP:CZ2	2.74	0.40
1:C:1312:ILE:HD13	1:C:1574:VAL:HG13	1.96	0.40
1:C:1325:GLY:HA2	1:C:1566:GLY:CA	2.51	0.40
1:D:524:LEU:HD21	1:D:549:THR:O	2.21	0.40
1:D:555:PHE:HB3	1:D:557:ILE:CD1	2.51	0.40
1:D:699:THR:HG23	1:D:700:LEU:HD23	2.02	0.40
1:D:810:TRP:CE2	1:D:878:LEU:HD11	2.57	0.40
1:D:810:TRP:O	1:D:814:LEU:HG	2.21	0.40
1:E:259:ASN:O	1:E:263:LEU:HD13	2.21	0.40
1:E:264:TYR:CG	1:E:434:TYR:CB	2.96	0.40
1:E:1327:TYR:CE2	1:E:1563:ARG:CB	3.02	0.40
1:A:583:LYS:H	1:A:583:LYS:HD2	1.85	0.40
1:B:477:LYS:O	1:B:481:THR:HG23	2.21	0.40
1:B:786:PHE:HZ	1:B:807:PHE:CE2	2.39	0.40
1:B:803:MET:SD	1:B:804:LEU:HD23	2.61	0.40
1:B:832:ALA:O	1:B:833:GLU:HB2	2.21	0.40
1:B:852:GLN:O	1:B:880:TRP:CZ2	2.74	0.40
1:B:1316:VAL:HG21	1:B:1573:PRO:HD2	2.03	0.40
1:B:1490:ASN:CG	1:B:1560:GLU:HB3	2.42	0.40
1:B:1558:PHE:CE2	1:B:1564:LYS:HB2	2.56	0.40
1:C:477:LYS:O	1:C:481:THR:HG23	2.22	0.40
1:C:847:LEU:HD13	1:C:847:LEU:C	2.41	0.40
1:C:1406:PRO:CG	1:C:1483:VAL:HG11	2.51	0.40
1:C:1536:GLU:CD	1:C:1536:GLU:H	2.24	0.40
1:D:264:TYR:CD1	1:D:264:TYR:C	2.95	0.40
1:D:363:TYR:CE1	1:D:414:LEU:HD23	2.56	0.40
1:D:657:THR:O	1:D:659:TYR:CD2	2.74	0.40
1:D:814:LEU:HD13	1:D:821:VAL:CG2	2.46	0.40
1:E:488:TYR:CZ	1:E:597:ILE:HB	2.56	0.40
1:E:589:TYR:CD2	1:E:593:LEU:HD13	2.56	0.40
1:E:771:ILE:CG2	1:E:772:ASN:N	2.82	0.40
1:E:1360:ILE:HD13	1:E:1527:GLU:HG3	2.02	0.40
1:A:244:SER:HB3	1:A:245:PRO:CD	2.38	0.40
1:A:603:ASP:O	1:A:607:LEU:HD12	2.22	0.40
1:A:847:LEU:HD13	1:A:847:LEU:C	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1500:ILE:HD11	1:A:1532:PHE:CG	2.54	0.40
1:B:259:ASN:O	1:B:263:LEU:HD13	2.21	0.40
1:B:275:SER:HA	1:B:278:MET:HE2	1.99	0.40
1:B:594:LEU:HD11	1:B:630:LEU:HD22	2.02	0.40
1:B:814:LEU:HD13	1:B:821:VAL:CG2	2.46	0.40
1:B:1502:VAL:CG1	1:B:1503:LYS:N	2.84	0.40
1:C:418:SER:HB2	1:C:419:TRP:HE3	1.86	0.40
1:C:589:TYR:CD2	1:C:593:LEU:HD13	2.57	0.40
1:C:594:LEU:HD11	1:C:630:LEU:HD22	2.02	0.40
1:C:689:LEU:CB	1:C:709:HIS:CD2	2.99	0.40
1:C:1378:TYR:HB2	1:C:1423:LEU:CD1	2.50	0.40
1:C:1404:PHE:HB2	1:C:1473:MET:HE3	2.02	0.40
1:C:1452:ILE:N	1:C:1452:ILE:CD1	2.83	0.40
1:D:272:GLU:HB2	1:D:1519:ILE:CD1	2.49	0.40
1:D:480:LEU:O	1:D:484:TYR:CD2	2.74	0.40
1:D:622:ILE:HG23	1:D:627:LEU:HG	2.03	0.40
1:D:713:LEU:CD1	1:D:781:THR:CG2	2.94	0.40
1:D:786:PHE:HZ	1:D:807:PHE:CE2	2.39	0.40
1:D:852:GLN:O	1:D:880:TRP:CZ2	2.74	0.40
1:D:1490:ASN:CG	1:D:1560:GLU:HB3	2.42	0.40
1:D:1500:ILE:CD1	1:D:1532:PHE:CD2	3.04	0.40
1:E:594:LEU:HD11	1:E:630:LEU:HD22	2.02	0.40
1:E:726:THR:CB	1:E:729:LYS:HG2	2.45	0.40
1:E:866:ASN:HD21	1:E:870:CYS:HB3	1.87	0.40
1:E:1474:THR:HG22	1:E:1480:ALA:CB	2.51	0.40
1:A:251:LEU:HD21	1:A:446:LEU:HD21	2.01	0.40
1:A:515:PHE:CZ	1:A:530:SER:HB2	2.54	0.40
1:A:630:LEU:HD23	1:A:630:LEU:C	2.42	0.40
1:B:418:SER:HB2	1:B:419:TRP:HE3	1.85	0.40
1:B:1380:LYS:C	1:B:1525:PHE:CE2	2.95	0.40
1:B:1420:GLY:CA	1:B:1462:ASN:ND2	2.84	0.40
1:B:1511:PHE:CE2	1:B:1536:GLU:OE2	2.75	0.40
1:C:243:ILE:CD1	1:C:475:LEU:HD12	2.51	0.40
1:C:251:LEU:HD11	1:C:470:ILE:CB	2.51	0.40
1:C:274:ALA:HB3	1:C:1519:ILE:HG13	2.02	0.40
1:C:871:TRP:O	1:C:871:TRP:CG	2.75	0.40
1:D:220:GLN:HG2	1:D:886:GLN:NE2	2.37	0.40
1:D:259:ASN:CB	1:D:263:LEU:HD13	2.39	0.40
1:D:295:GLN:O	1:D:454:PRO:HB2	2.21	0.40
1:D:381:THR:O	1:D:381:THR:HG23	2.21	0.40
1:D:623:SER:N	1:D:626:GLN:HG2	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:630:LEU:HD23	1:D:630:LEU:C	2.42	0.40
1:D:872:THR:CG2	1:D:873:SER:N	2.85	0.40
1:D:1502:VAL:CG1	1:D:1503:LYS:N	2.84	0.40
1:E:363:TYR:CE1	1:E:414:LEU:HD23	2.57	0.40
1:E:488:TYR:CE1	1:E:597:ILE:O	2.74	0.40
1:E:603:ASP:O	1:E:607:LEU:HD12	2.22	0.40
1:E:671:LEU:HD22	1:E:738:TYR:CE2	2.56	0.40
1:E:1387:VAL:CG2	1:E:1489:ILE:HD11	2.51	0.40
1:A:605:LEU:HD11	1:A:609:LEU:CD1	2.47	0.40
1:A:623:SER:N	1:A:626:GLN:HG2	2.37	0.40
1:A:674:VAL:HG13	1:A:678:LEU:CD1	2.43	0.40
1:A:719:GLN:HG2	1:A:725:MET:O	2.22	0.40
1:A:726:THR:CB	1:A:729:LYS:HG2	2.45	0.40
1:A:733:TRP:CZ3	1:A:734:LEU:CD2	2.95	0.40
1:A:1306:TYR:CD1	1:A:1306:TYR:C	2.94	0.40
1:B:330:ILE:HG22	1:B:331:THR:N	2.35	0.40
1:B:440:LEU:HD13	1:B:440:LEU:C	2.40	0.40
1:B:1536:GLU:H	1:B:1536:GLU:CD	2.24	0.40
1:C:220:GLN:HG2	1:C:886:GLN:NE2	2.37	0.40
1:C:363:TYR:CE1	1:C:414:LEU:HD23	2.56	0.40
1:C:468:LEU:N	1:C:468:LEU:CD1	2.84	0.40
1:C:488:TYR:CZ	1:C:597:ILE:HB	2.56	0.40
1:C:654:MET:CE	1:C:765:VAL:HG13	2.52	0.40
1:C:661:LYS:CB	1:C:750:GLU:HA	2.46	0.40
1:C:671:LEU:HD23	1:C:738:TYR:CD2	2.56	0.40
1:C:866:ASN:HD21	1:C:870:CYS:HB3	1.87	0.40
1:C:1387:VAL:CG2	1:C:1489:ILE:HD11	2.51	0.40
1:C:1387:VAL:HG13	1:C:1489:ILE:HD12	2.03	0.40
1:D:286:TYR:CB	1:D:288:LEU:HG	2.49	0.40
1:D:418:SER:HB2	1:D:419:TRP:HE3	1.85	0.40
1:D:675:TYR:HE1	1:D:735:ASN:HA	1.87	0.40
1:D:781:THR:C	1:D:782:LYS:HD2	2.42	0.40
1:D:1315:SER:O	1:D:1316:VAL:CG2	2.67	0.40
1:D:1396:ASN:O	1:D:1397:ASN:HB2	2.22	0.40
1:D:1406:PRO:CG	1:D:1483:VAL:HG11	2.51	0.40
1:D:1567:TYR:C	1:D:1567:TYR:CD1	2.94	0.40
1:E:264:TYR:CD1	1:E:264:TYR:C	2.95	0.40
1:E:310:ASN:HD21	1:E:455:THR:CA	2.33	0.40
1:E:310:ASN:HD21	1:E:455:THR:HA	1.85	0.40
1:E:409:GLY:HA2	1:E:423:ALA:HB2	2.02	0.40
1:E:609:LEU:O	1:E:612:VAL:HG12	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:786:PHE:HZ	1:E:807:PHE:CE2	2.39	0.40
1:E:1500:ILE:CD1	1:E:1532:PHE:CD2	3.04	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	944/2516 (38%)	899 (95%)	32 (3%)	13 (1%)	11	44
1	B	944/2516 (38%)	899 (95%)	32 (3%)	13 (1%)	11	44
1	C	944/2516 (38%)	899 (95%)	32 (3%)	13 (1%)	11	44
1	D	944/2516 (38%)	899 (95%)	32 (3%)	13 (1%)	11	44
1	E	944/2516 (38%)	899 (95%)	32 (3%)	13 (1%)	11	44
All	All	4720/12580 (38%)	4495 (95%)	160 (3%)	65 (1%)	15	44

All (65) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	376	ARG
1	A	525	ASN
1	A	1346	SER
1	A	1381	LEU
1	A	1542	LEU
1	B	376	ARG
1	B	525	ASN
1	B	1346	SER
1	B	1381	LEU
1	B	1542	LEU
1	C	376	ARG
1	C	525	ASN

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Mol	Chain	Res	Type
1	C	1346	SER
1	C	1381	LEU
1	C	1542	LEU
1	D	376	ARG
1	D	525	ASN
1	D	1346	SER
1	D	1381	LEU
1	D	1542	LEU
1	E	376	ARG
1	E	525	ASN
1	E	1346	SER
1	E	1381	LEU
1	E	1542	LEU
1	A	337	ASN
1	A	490	ILE
1	A	1316	VAL
1	B	337	ASN
1	B	490	ILE
1	B	1316	VAL
1	C	337	ASN
1	C	490	ILE
1	C	1316	VAL
1	D	337	ASN
1	D	490	ILE
1	D	1316	VAL
1	E	337	ASN
1	E	490	ILE
1	E	1316	VAL
1	A	1308	GLU
1	A	1315	SER
1	B	1308	GLU
1	B	1315	SER
1	C	1308	GLU
1	C	1315	SER
1	D	1308	GLU
1	D	1315	SER
1	E	1308	GLU
1	E	1315	SER
1	A	1396	ASN
1	B	1396	ASN
1	C	1396	ASN
1	D	1396	ASN

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Mol	Chain	Res	Type
1	E	1396	ASN
1	A	1540	SER
1	B	1540	SER
1	C	1540	SER
1	D	1540	SER
1	E	1540	SER
1	A	1478	GLY
1	B	1478	GLY
1	C	1478	GLY
1	D	1478	GLY
1	E	1478	GLY

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	817/2157 (38%)	801 (98%)	16 (2%)	55	79
1	B	817/2157 (38%)	801 (98%)	16 (2%)	55	79
1	C	817/2157 (38%)	801 (98%)	16 (2%)	55	79
1	D	817/2157 (38%)	801 (98%)	16 (2%)	55	79
1	E	817/2157 (38%)	801 (98%)	16 (2%)	55	79
All	All	4085/10785 (38%)	4005 (98%)	80 (2%)	57	79

All (80) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	354	ARG
1	A	372	LEU
1	A	462	ARG
1	A	577	LYS
1	A	583	LYS
1	A	633	LYS
1	A	663	LEU
1	A	692	MET

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Mol	Chain	Res	Type
1	A	701	GLN
1	A	762	LEU
1	A	782	LYS
1	A	796	HIS
1	A	1306	TYR
1	A	1329	LEU
1	A	1503	LYS
1	A	1563	ARG
1	B	354	ARG
1	B	372	LEU
1	B	462	ARG
1	B	577	LYS
1	B	583	LYS
1	B	633	LYS
1	B	663	LEU
1	B	692	MET
1	B	701	GLN
1	B	762	LEU
1	B	782	LYS
1	B	796	HIS
1	B	1306	TYR
1	B	1329	LEU
1	B	1503	LYS
1	B	1563	ARG
1	C	354	ARG
1	C	372	LEU
1	C	462	ARG
1	C	577	LYS
1	C	583	LYS
1	C	633	LYS
1	C	663	LEU
1	C	692	MET
1	C	701	GLN
1	C	762	LEU
1	C	782	LYS
1	C	796	HIS
1	C	1306	TYR
1	C	1329	LEU
1	C	1503	LYS
1	C	1563	ARG
1	D	354	ARG
1	D	372	LEU

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Mol	Chain	Res	Type
1	D	462	ARG
1	D	577	LYS
1	D	583	LYS
1	D	633	LYS
1	D	663	LEU
1	D	692	MET
1	D	701	GLN
1	D	762	LEU
1	D	782	LYS
1	D	796	HIS
1	D	1306	TYR
1	D	1329	LEU
1	D	1503	LYS
1	D	1563	ARG
1	E	354	ARG
1	E	372	LEU
1	E	462	ARG
1	E	577	LYS
1	E	583	LYS
1	E	633	LYS
1	E	663	LEU
1	E	692	MET
1	E	701	GLN
1	E	762	LEU
1	E	782	LYS
1	E	796	HIS
1	E	1306	TYR
1	E	1329	LEU
1	E	1503	LYS
1	E	1563	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (88) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	222	ASN
1	A	310	ASN
1	A	337	ASN
1	A	340	GLN
1	A	441	ASN
1	A	505	GLN
1	A	598	HIS
1	A	650	GLN

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Mol	Chain	Res	Type
1	A	676	HIS
1	A	749	GLN
1	A	751	HIS
1	A	767	HIS
1	A	885	GLN
1	A	1361	HIS
1	A	1362	ASN
1	A	1370	ASN
1	A	1394	ASN
1	A	1462	ASN
1	B	222	ASN
1	B	310	ASN
1	B	337	ASN
1	B	340	GLN
1	B	441	ASN
1	B	486	GLN
1	B	505	GLN
1	B	598	HIS
1	B	650	GLN
1	B	676	HIS
1	B	749	GLN
1	B	751	HIS
1	B	885	GLN
1	B	1361	HIS
1	B	1362	ASN
1	B	1370	ASN
1	B	1394	ASN
1	B	1462	ASN
1	C	222	ASN
1	C	310	ASN
1	C	337	ASN
1	C	340	GLN
1	C	441	ASN
1	C	486	GLN
1	C	505	GLN
1	C	598	HIS
1	C	650	GLN
1	C	676	HIS
1	C	749	GLN
1	C	751	HIS
1	C	885	GLN
1	C	1361	HIS

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Mol	Chain	Res	Type
1	C	1362	ASN
1	C	1370	ASN
1	C	1394	ASN
1	C	1462	ASN
1	D	222	ASN
1	D	310	ASN
1	D	337	ASN
1	D	340	GLN
1	D	441	ASN
1	D	486	GLN
1	D	505	GLN
1	D	598	HIS
1	D	650	GLN
1	D	676	HIS
1	D	751	HIS
1	D	885	GLN
1	D	1361	HIS
1	D	1370	ASN
1	D	1394	ASN
1	D	1462	ASN
1	E	222	ASN
1	E	310	ASN
1	E	337	ASN
1	E	340	GLN
1	E	441	ASN
1	E	505	GLN
1	E	598	HIS
1	E	650	GLN
1	E	676	HIS
1	E	749	GLN
1	E	751	HIS
1	E	767	HIS
1	E	885	GLN
1	E	1361	HIS
1	E	1362	ASN
1	E	1370	ASN
1	E	1394	ASN
1	E	1462	ASN

5.3.3 RNA ⓘ

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.

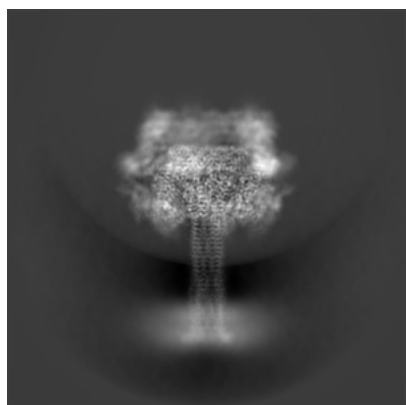
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-4068. These allow visual inspection of the internal detail of the map and identification of artifacts.

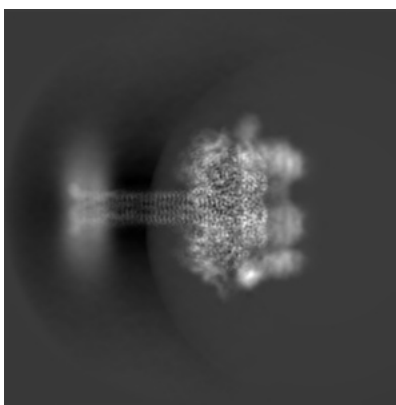
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

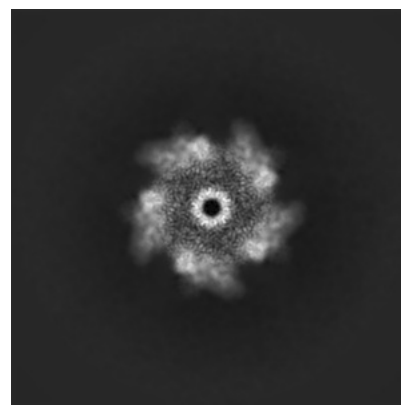
6.1.1 Primary map



X



Y



Z

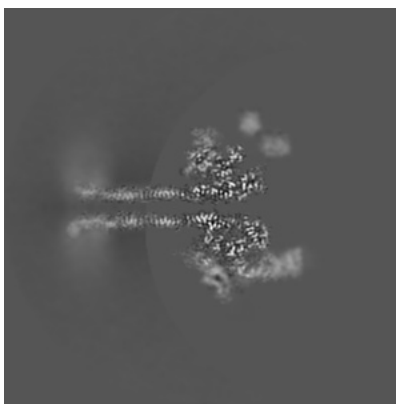
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

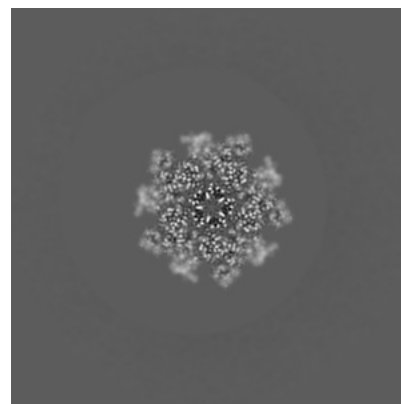
6.2.1 Primary map



X Index: 141



Y Index: 141

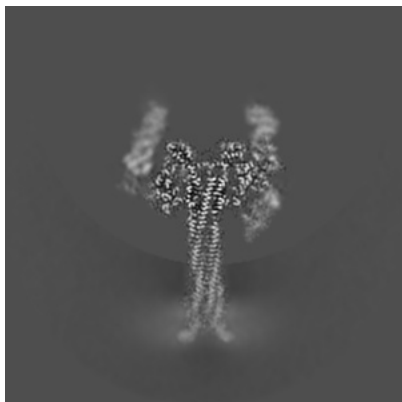


Z Index: 141

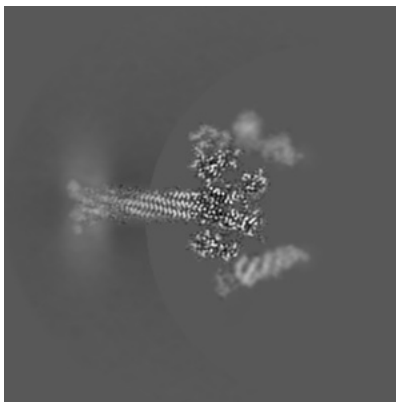
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

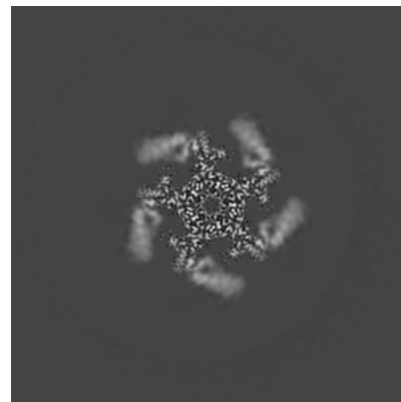
6.3.1 Primary map



X Index: 134



Y Index: 132



Z Index: 169

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

6.4 Orthogonal surface views [i](#)

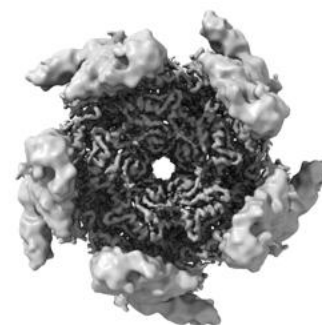
6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 6.75. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

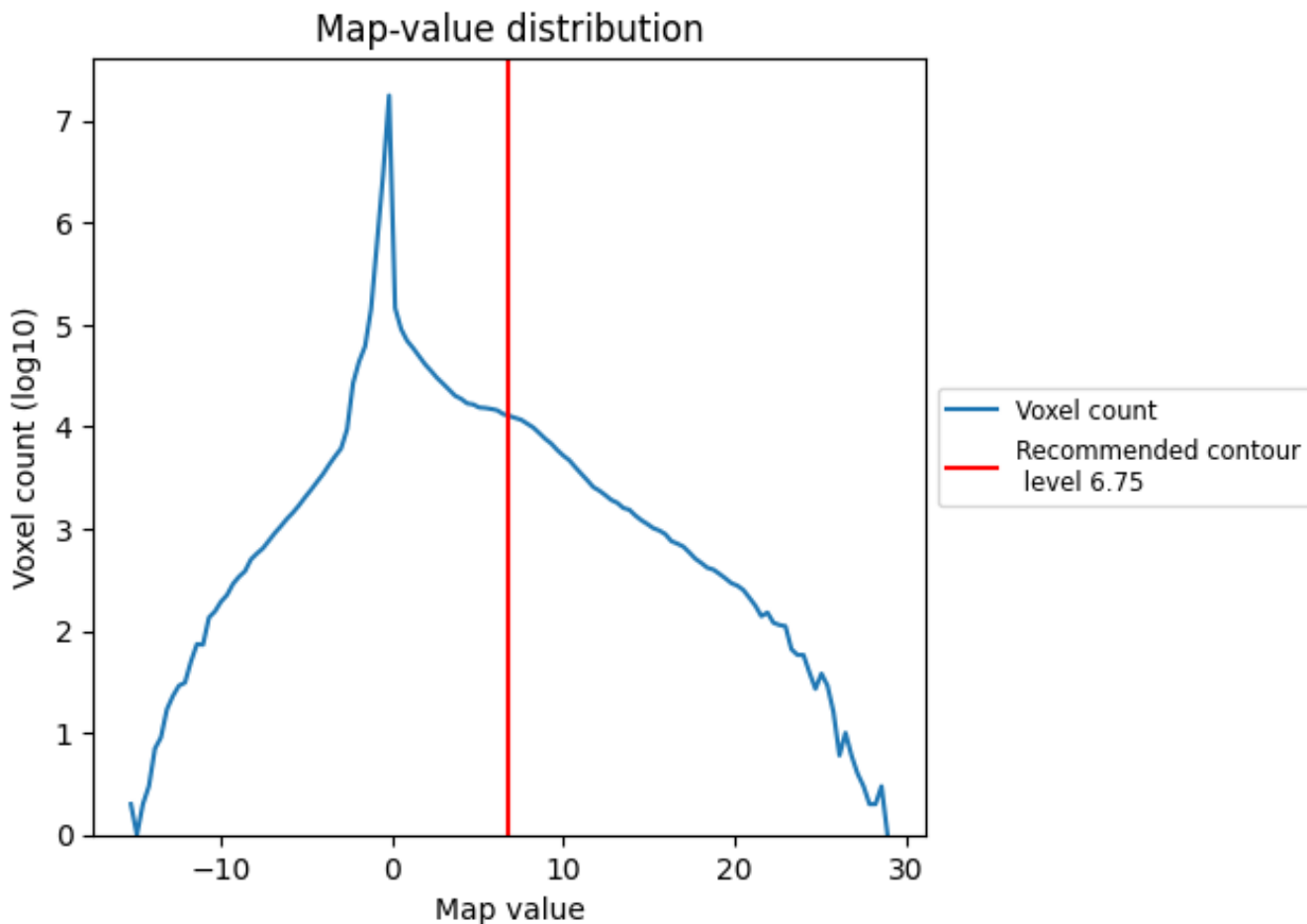
6.5 Mask visualisation

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

7 Map analysis [i](#)

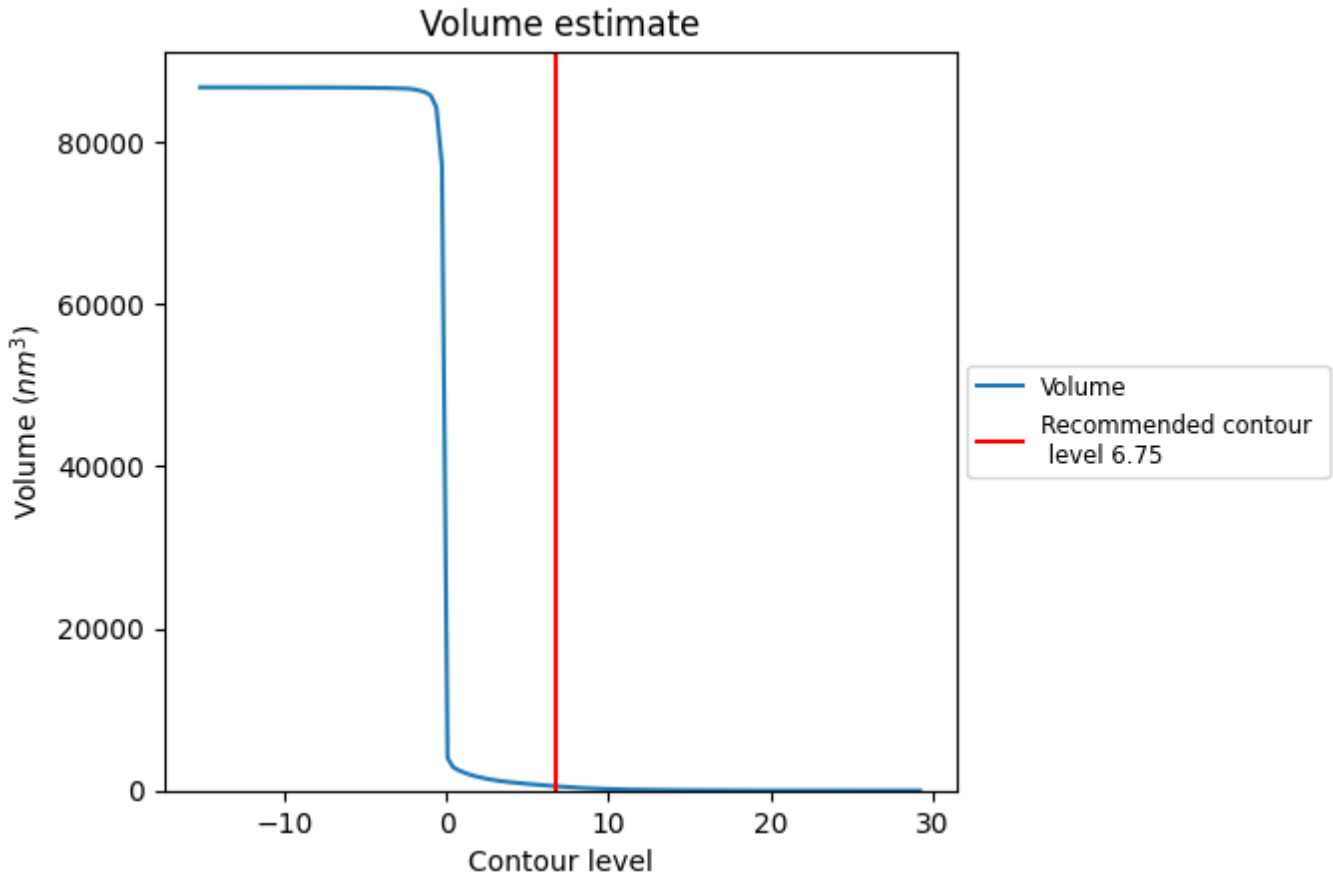
This section contains the results of statistical analysis of the map.

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.

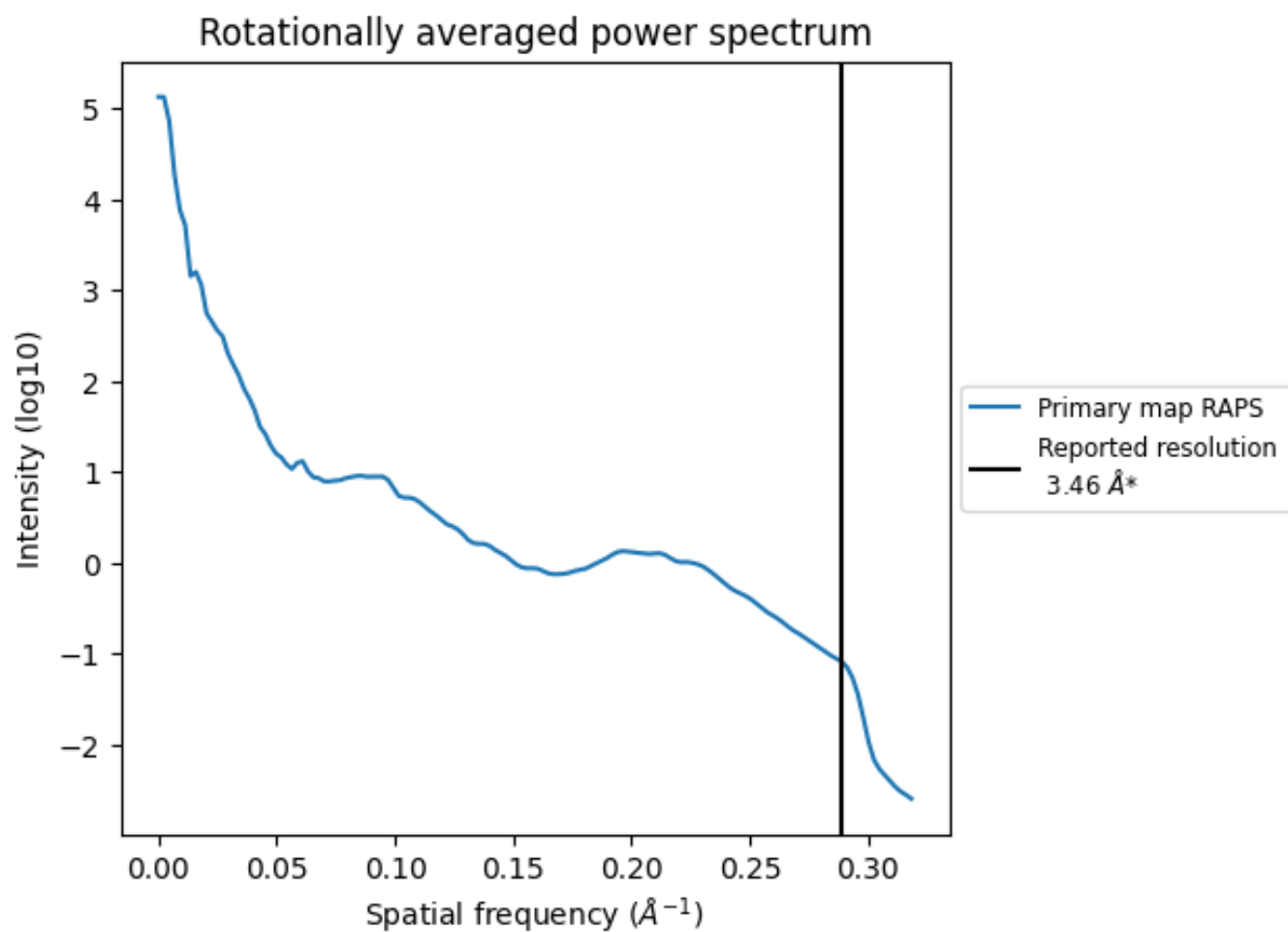
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 535 nm^3 ; this corresponds to an approximate mass of 483 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 0.289 Å⁻¹

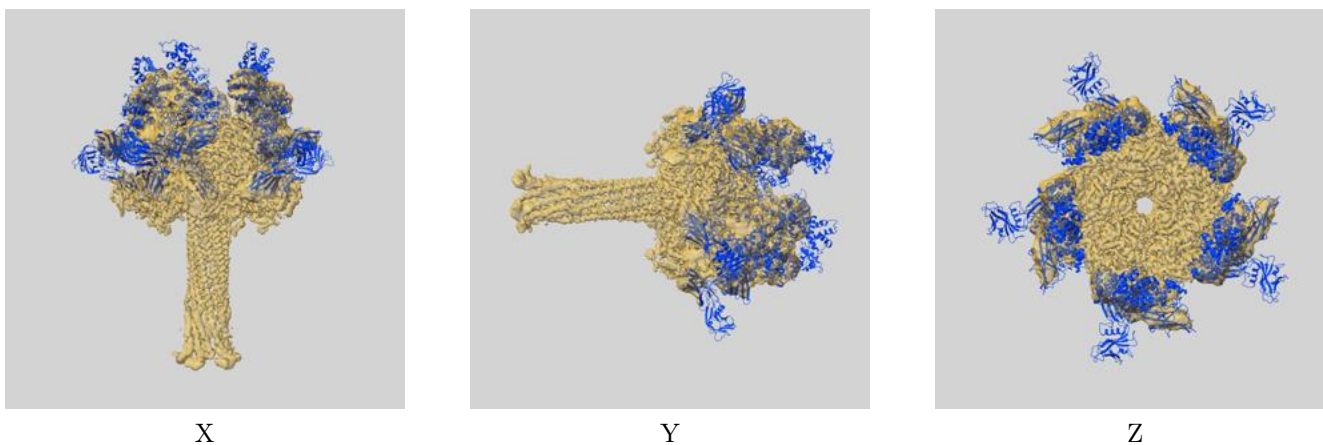
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

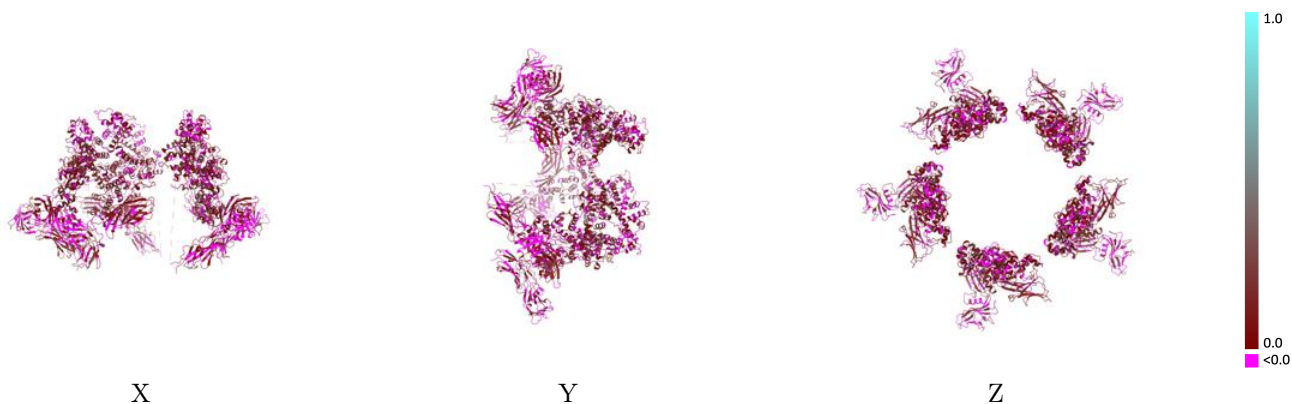
This section contains information regarding the fit between EMDB map EMD-4068 and PDB model 5LKH. Per-residue inclusion information can be found in section 3 on page 4.

9.1 Map-model overlay [i](#)



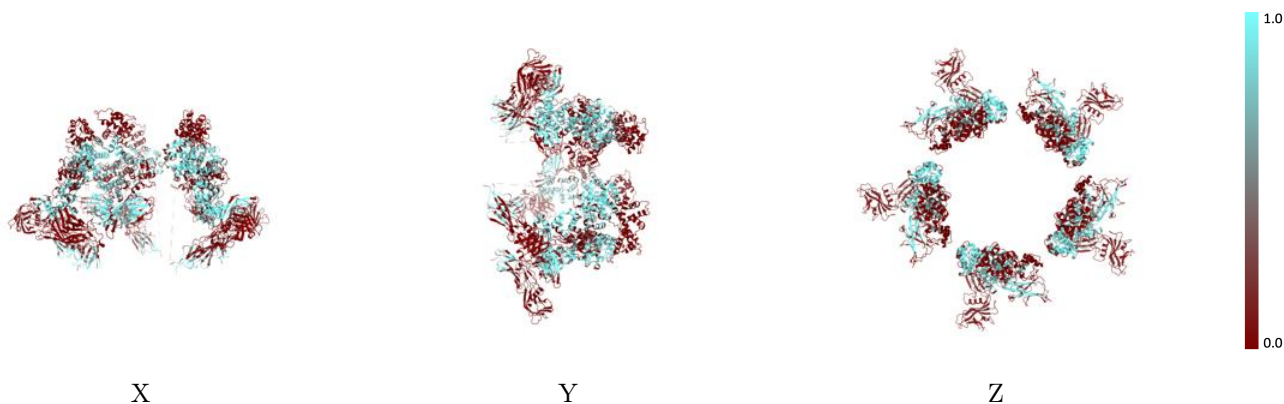
The images above show the 3D surface view of the map at the recommended contour level 6.75 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



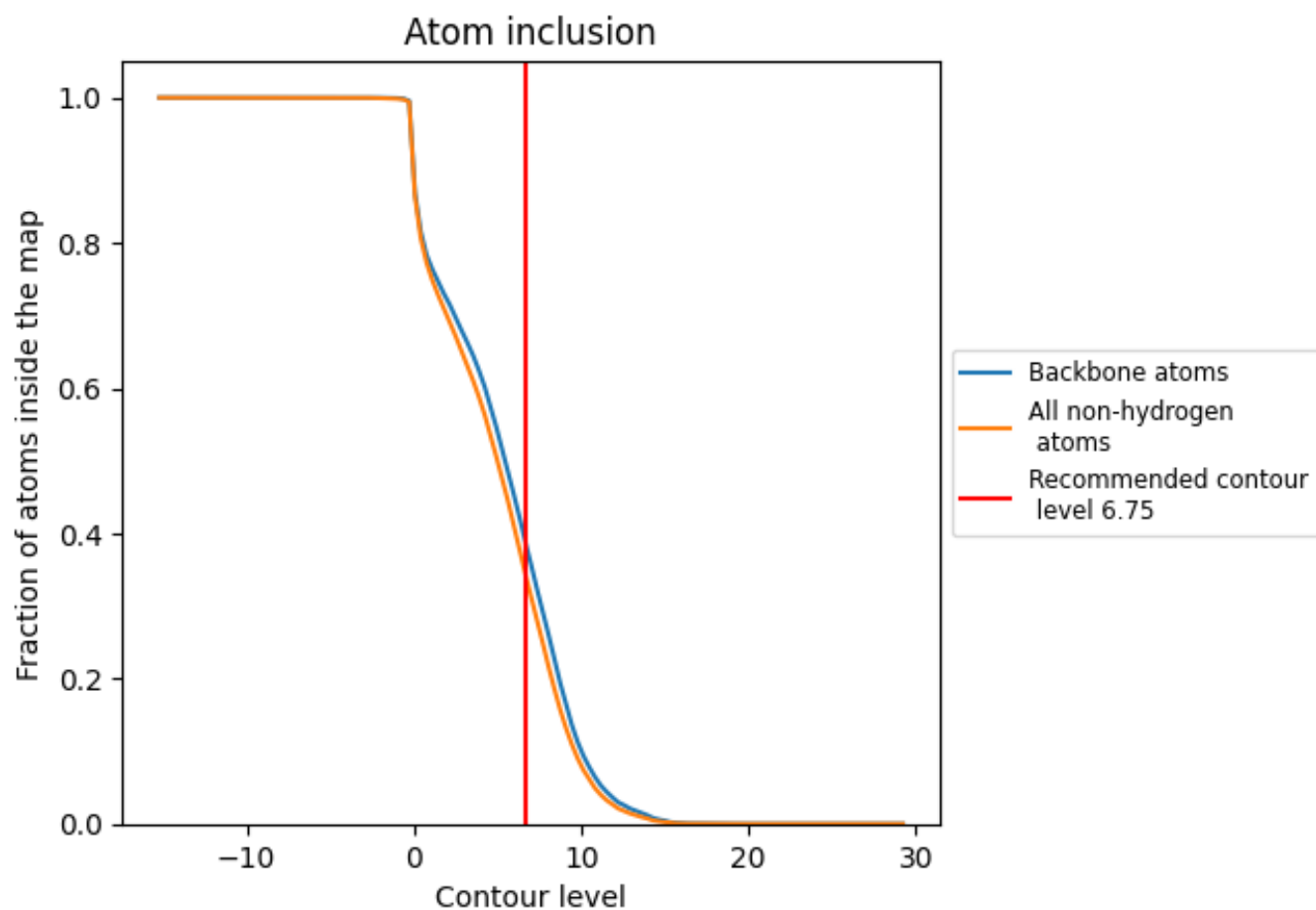
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (6.75).













9.4 Atom inclusion [i](#)



At the recommended contour level, 38% of all backbone atoms, 34% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary [i](#)

The table lists the average atom inclusion at the recommended contour level (6.75) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.3369	 0.0670
A	 0.3577	 0.0800
B	 0.3591	 0.0780
C	 0.3250	 0.0580
D	 0.3118	 0.0520
E	 0.3309	 0.0660

