Full wwPDB EM Validation Report ⓘ

Nov 10, 2024 – 09:40 AM EST

PDB ID	:	7K5B
EMDB ID	:	EMD-22679
Title	:	Structure of outer-arm dynein bound to microtubule doublet in microtubule binding state 2 (MTBS-2)
Authors	:	Rao, Q.; Zhang, K.
Deposited on	:	2020-09-16
Resolution	:	4.50 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:

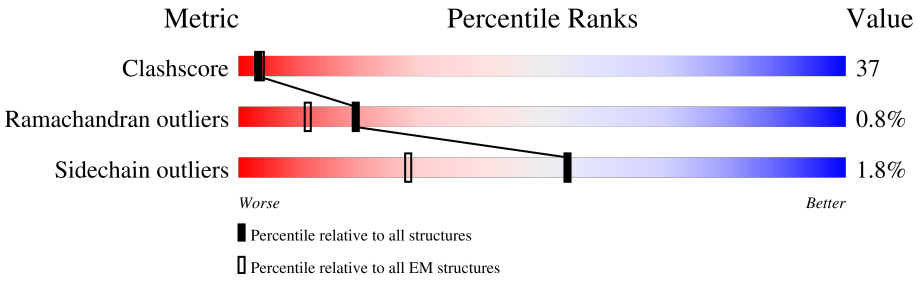
EMDB validation analysis	:	0.0.1.dev113
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4.02b-467
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 4.50 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	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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 <=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	4615	6% 73% 23%
2	B	4588	72% 25%
3	C	3947	82% 17%
4	D	595	6% 43% 52%
5	E	557	45% 54%
6	F	128	13% 50% 49%
7	G	151	32% 52% 38% 7%
8	H	91	5% 37% 63%

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Mol	Chain	Length	Quality of chain
9	I	106	36% 63%
10	J	95	33% 66%
11	K	90	41% 59%
12	L	111	14% 41% 58%
13	M	87	48% 52%
14	N	114	59% 41%
15	O	120	45% 52%
16	P	112	62% 29% 5%
17	Q	192	8% 84% 15%
18	R	150	97% 82% 17%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
19	ADP	A	4701	-	-	X	-
19	ADP	A	4901	-	-	X	-
19	ADP	B	5501	-	-	X	-
19	ADP	C	4702	-	-	X	-
20	ATP	A	4801	-	-	X	-
20	ATP	B	5601	-	-	X	-
21	MG	A	5002	-	-	X	-

2 Entry composition

There are 21 unique types of molecules in this entry. The entry contains 119573 atoms, of which 156 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 Dynein heavy chain, outer arm protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	4453	33975	21575	5802	6440	158	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	3238	ASN	ASP	conflict	UNP Q22A67

- Molecule 2 is a protein called Outer arm dynein beta heavy chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	B	4524	34751	22080	5950	6571	150	0	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	36	ALA	GLN	conflict	UNP I7M9J2
B	1287	ALA	LEU	conflict	UNP I7M9J2
B	3977	ALA	SER	conflict	UNP I7M9J2

- Molecule 3 is a protein called gamma heavy chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	C	3947	30427	19395	5159	5724	149	0	0

- Molecule 4 is a protein called Dynein intermediate chain 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	D	579	4680	2975	791	883	31	0	0

- Molecule 5 is a protein called Flagellar outer dynein arm intermediate protein, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	E	555	Total	C	N	O	S	0	0
			4440	2798	762	858	22		

- Molecule 6 is a protein called Dynein light chain roadblock-type 2 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	F	128	Total	C	N	O	S	0	0
			996	625	176	193	2		

- Molecule 7 is a protein called Dynein light chain roadblock-type 2 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	G	151	Total	C	N	O	S	0	0
			1024	636	184	203	1		

- Molecule 8 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	H	91	Total	C	N	O	S	0	0
			750	483	124	139	4		

- Molecule 9 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	I	106	Total	C	N	O	S	0	0
			827	526	134	161	6		

- Molecule 10 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	J	95	Total	C	N	O	S	0	0
			807	527	135	140	5		

- Molecule 11 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	K	90	Total	C	N	O	S	0	0
			754	489	124	137	4		

- Molecule 12 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	L	111	Total	C	N	O	S	0	0
			855	555	145	152	3		

- Molecule 13 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	M	87	Total	C	N	O	S	0	0
			735	477	123	130	5		

- Molecule 14 is a protein called Dynein light chain tctex-type 1 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	N	114	Total	C	N	O	S	0	0
			852	542	142	165	3		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
N	92	ALA	ASN	conflict	UNP A4VEB3

- Molecule 15 is a protein called Dynein light chain 2A.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	O	120	Total	C	N	O	S	0	0
			994	639	173	179	3		

- Molecule 16 is a protein called Thioredoxin.

Mol	Chain	Residues	Atoms				AltConf	Trace
16	P	109	Total	C	N	O	0	0
			541	323	109	109		

- Molecule 17 is a protein called Dynein light chain 1.

Mol	Chain	Residues	Atoms				AltConf	Trace
17	Q	192	Total	C	N	O	0	0
			1006	610	203	193		

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
Q	2	ALA	SER	conflict	UNP Q1HGH9

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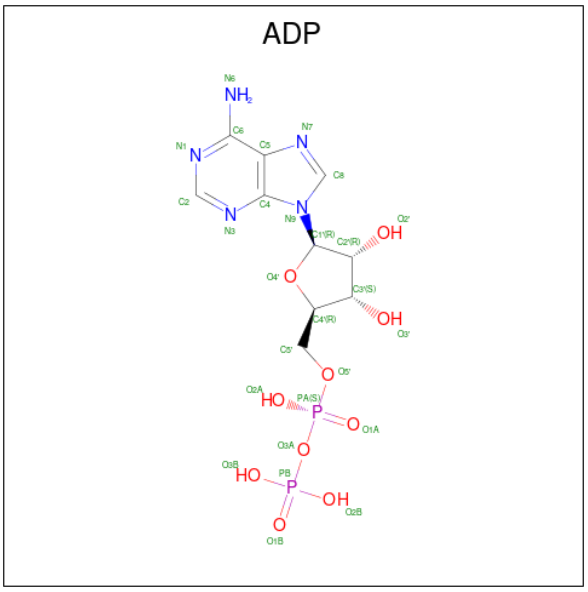
Chain	Residue	Modelled	Actual	Comment	Reference
Q	179	MET	TYR	conflict	UNP Q1HGH9

- Molecule 18 is a protein called Dynein light chain 4A.

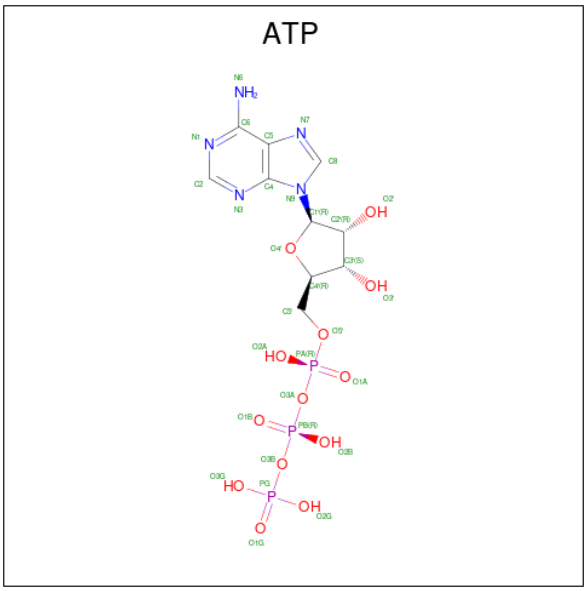
Mol	Chain	Residues	Atoms					AltConf	Trace
18	R	150	Total	C	H	N	O	0	0
			895	439	156	150	150		

- Molecule 19 is ADENOSINE-5'-DIPHOSPHATE (three-letter code: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$).



Mol	Chain	Residues	Atoms					AltConf
19	A	1	Total	C	N	O	P	0
			27	10	5	10	2	
19	A	1	Total	C	N	O	P	0
			27	10	5	10	2	
19	B	1	Total	C	N	O	P	0
			27	10	5	10	2	
19	B	1	Total	C	N	O	P	0
			27	10	5	10	2	
19	C	1	Total	C	N	O	P	0
			27	10	5	10	2	
19	C	1	Total	C	N	O	P	0
			27	10	5	10	2	

- Molecule 20 is ADENOSINE-5'-TRIPHOSPHATE (three-letter code: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$).



Mol	Chain	Residues	Atoms					AltConf
20	A	1	Total	C	N	O	P	0
			31	10	5	13	3	
20	B	1	Total	C	N	O	P	0
			31	10	5	13	3	
20	C	1	Total	C	N	O	P	0
			31	10	5	13	3	

- Molecule 21 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

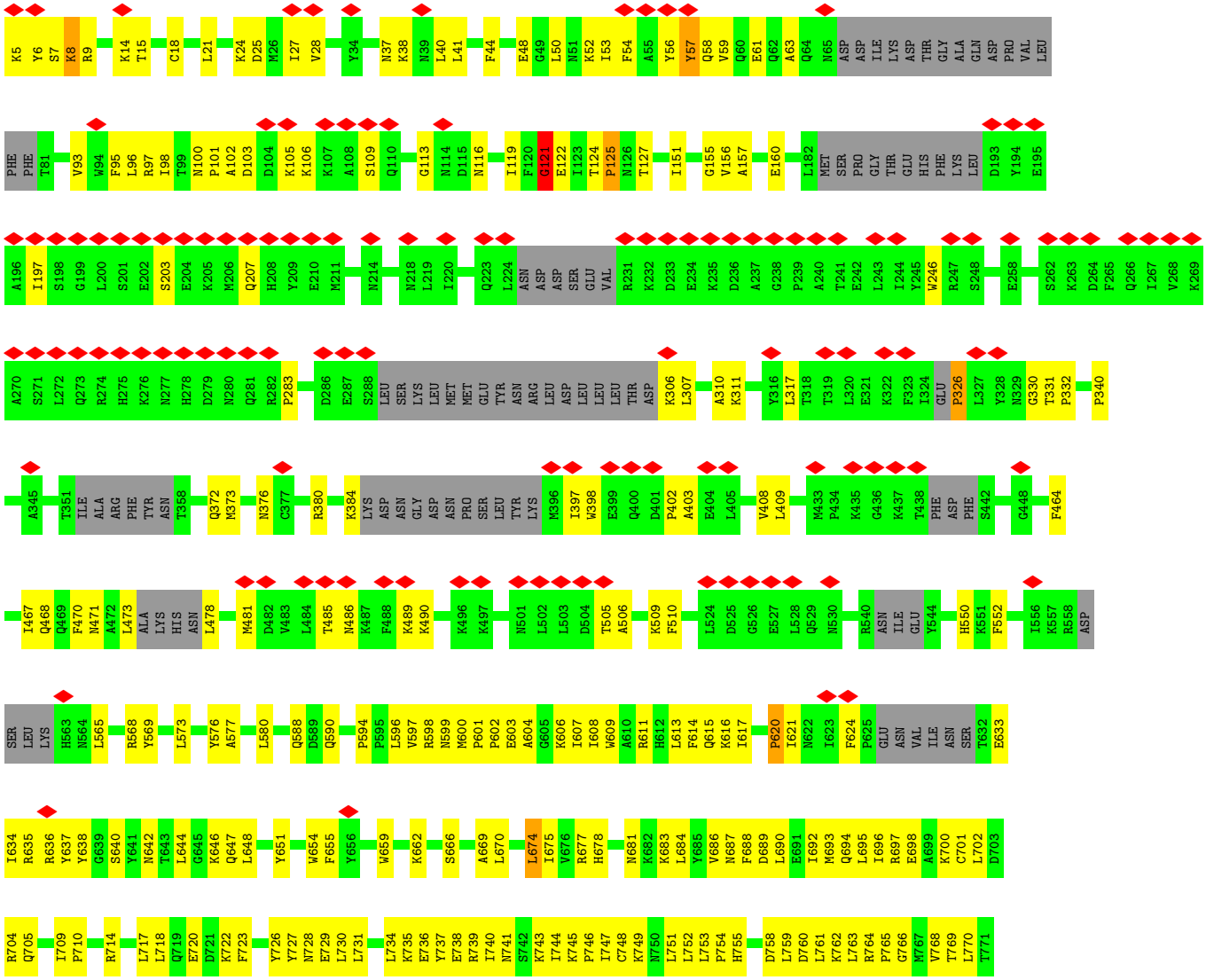
Mol	Chain	Residues	Atoms		AltConf
21	A	3	Total	Mg	0
			3	3	
21	B	3	Total	Mg	0
			3	3	
21	C	3	Total	Mg	0
			3	3	

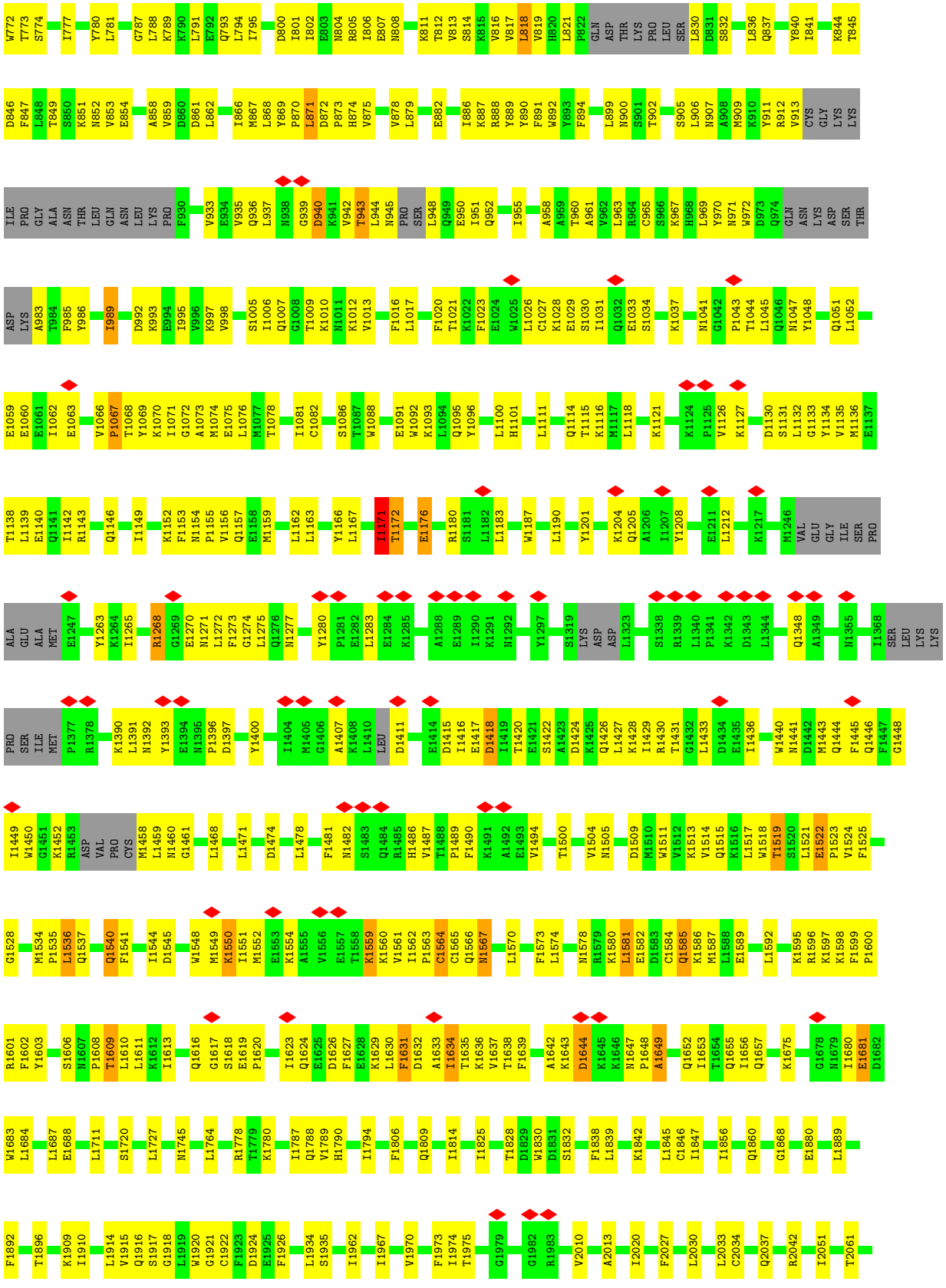
3 Residue-property plots (i)

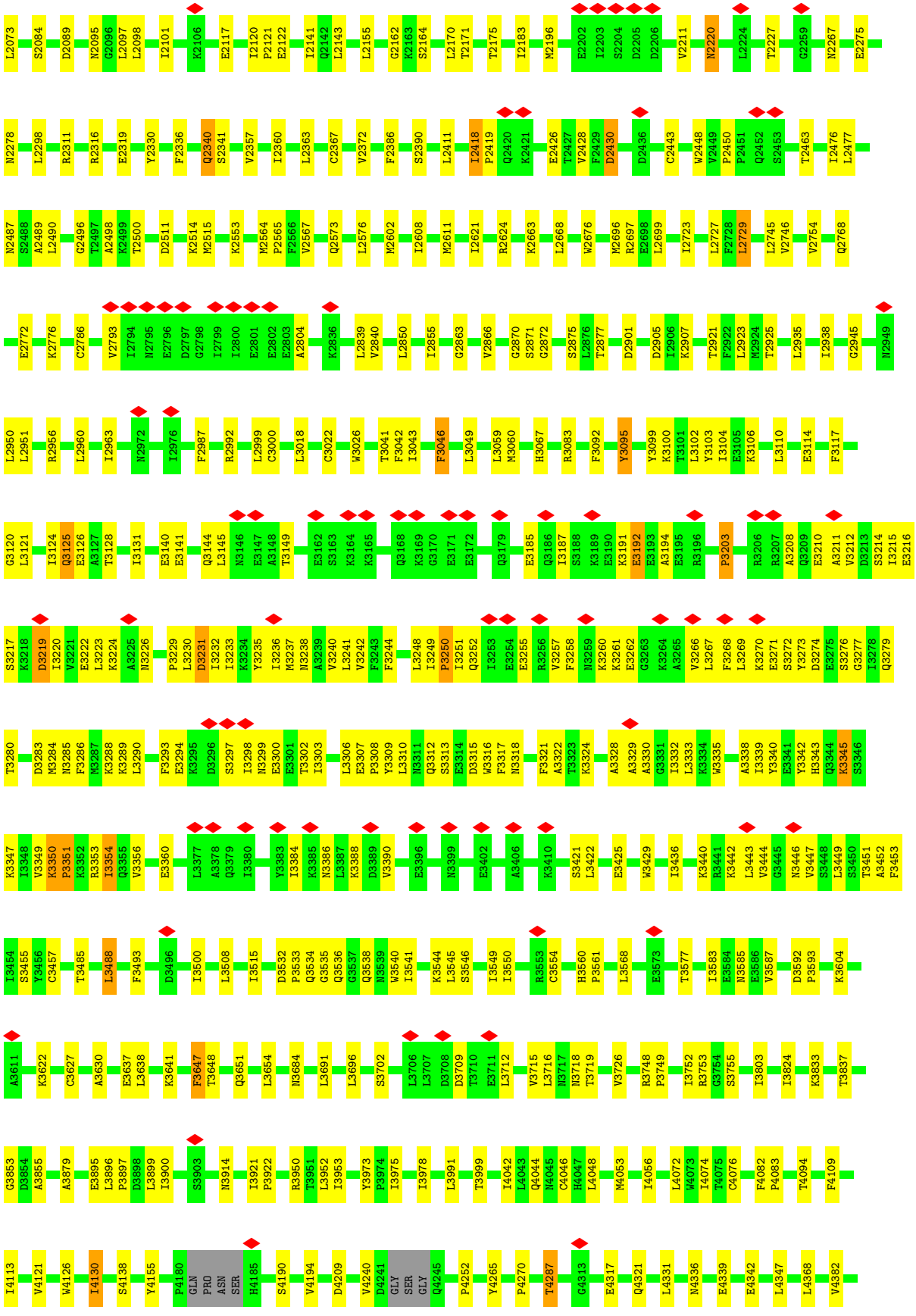
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

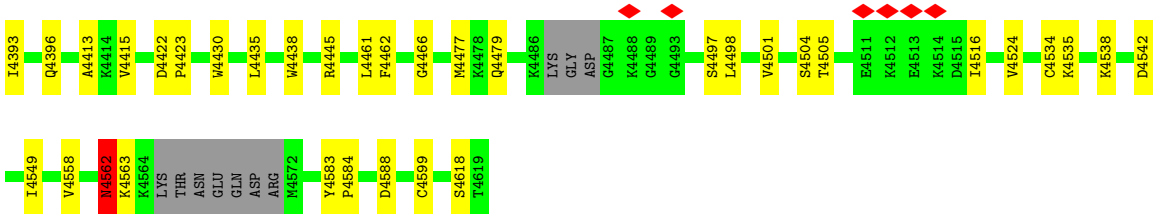
• Molecule 1: Dynein heavy chain, outer arm protein

Chain A:



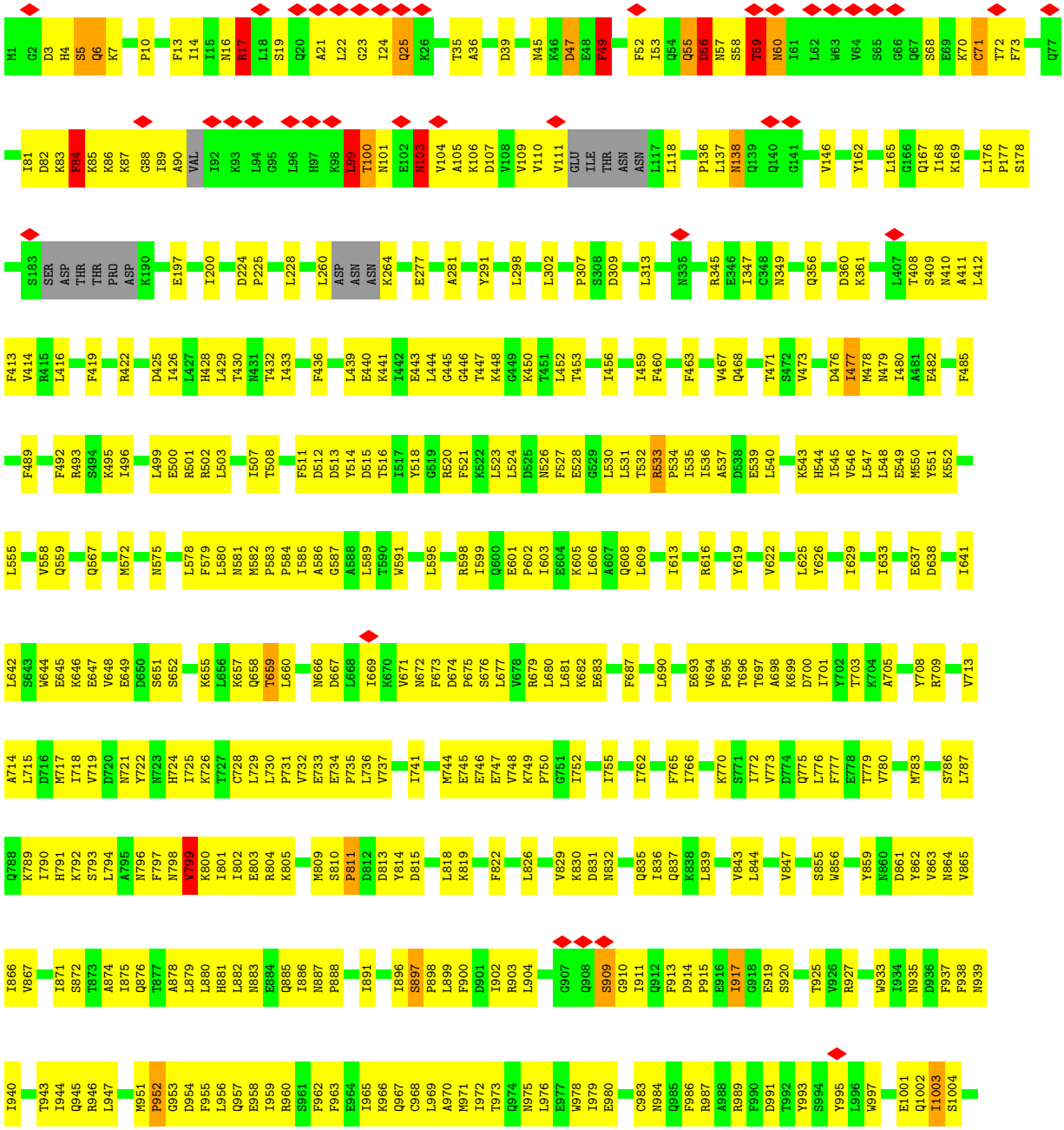


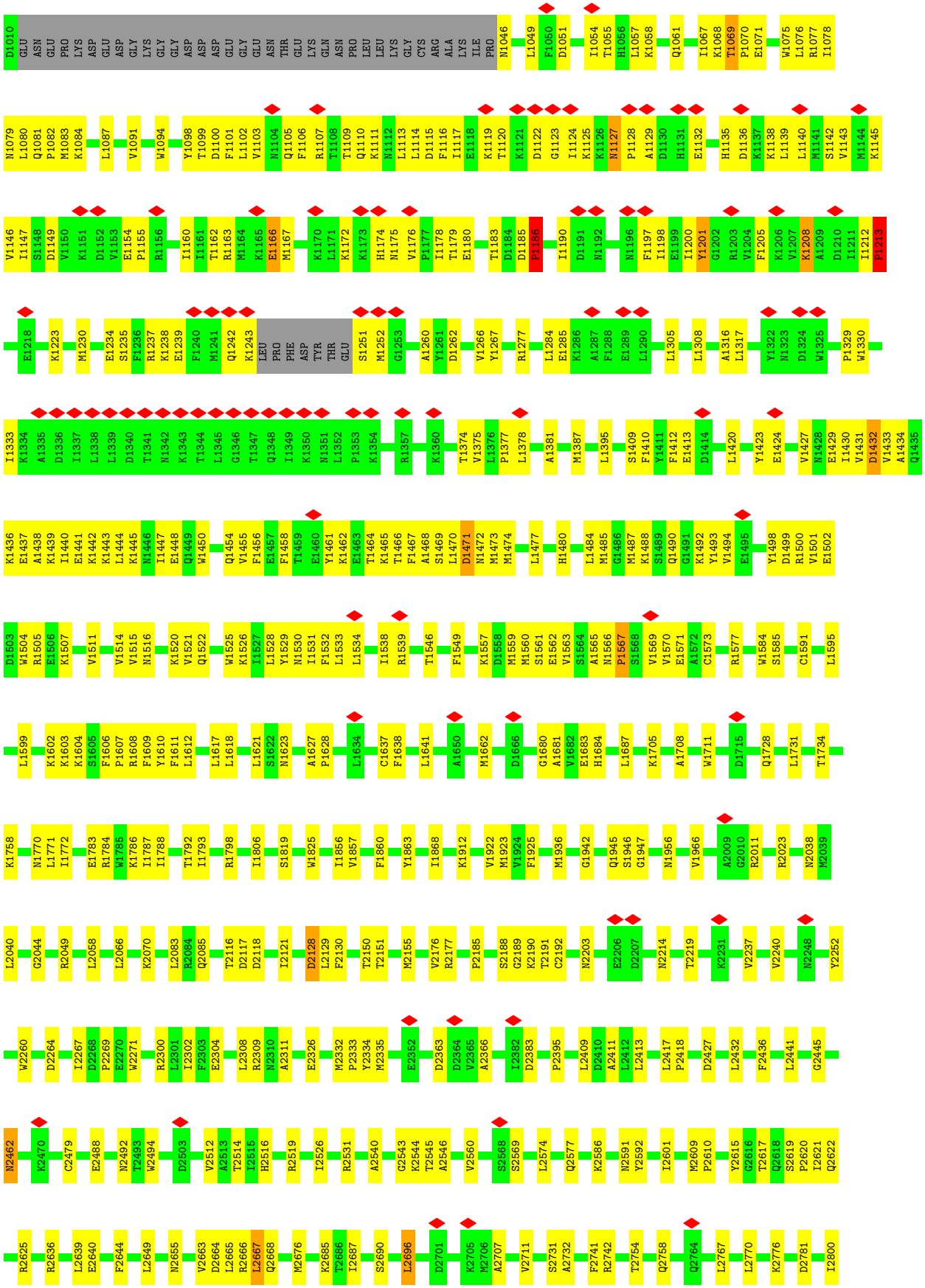


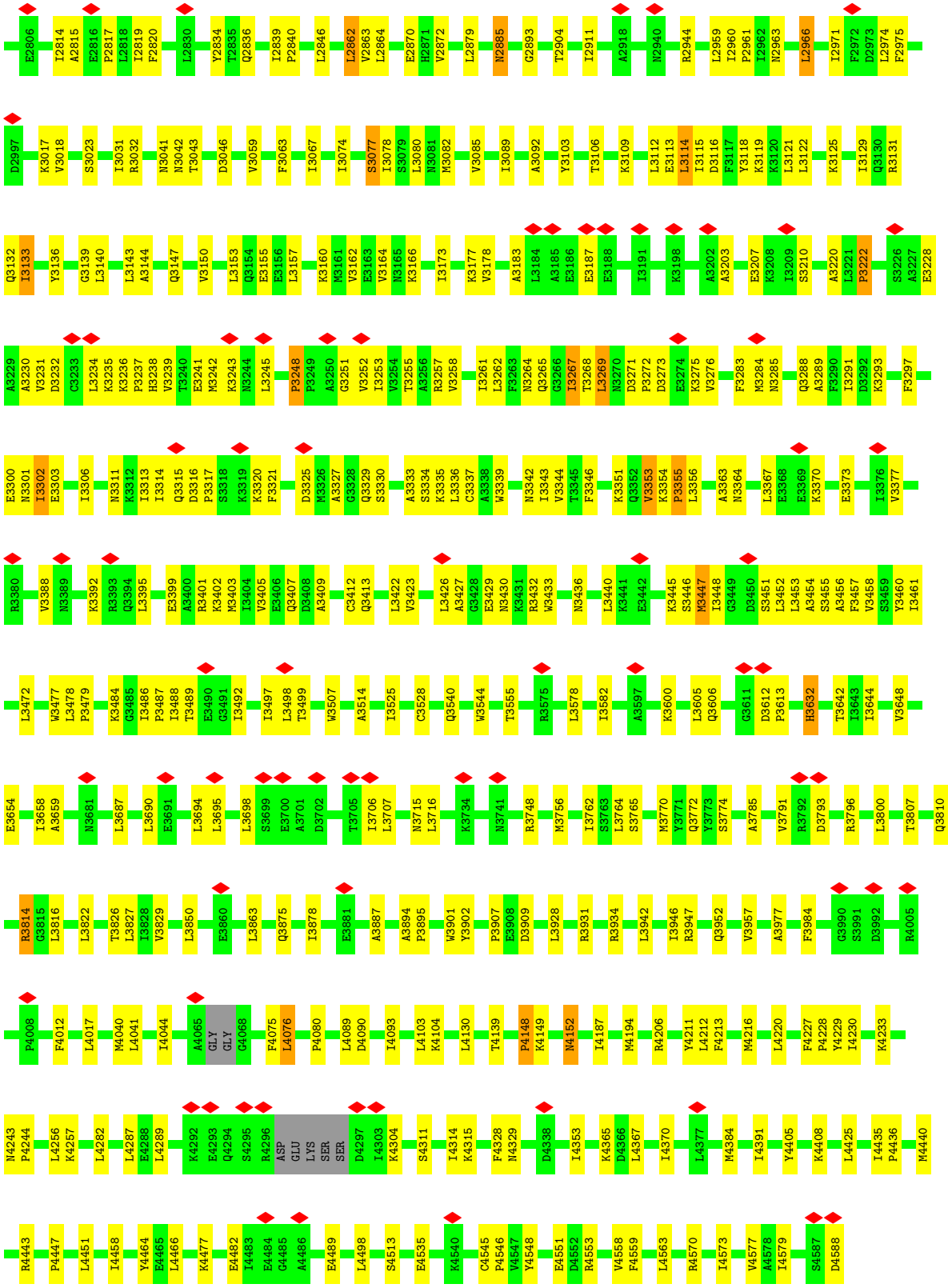


• Molecule 2: Outer arm dynein beta heavy chain

Chain B:

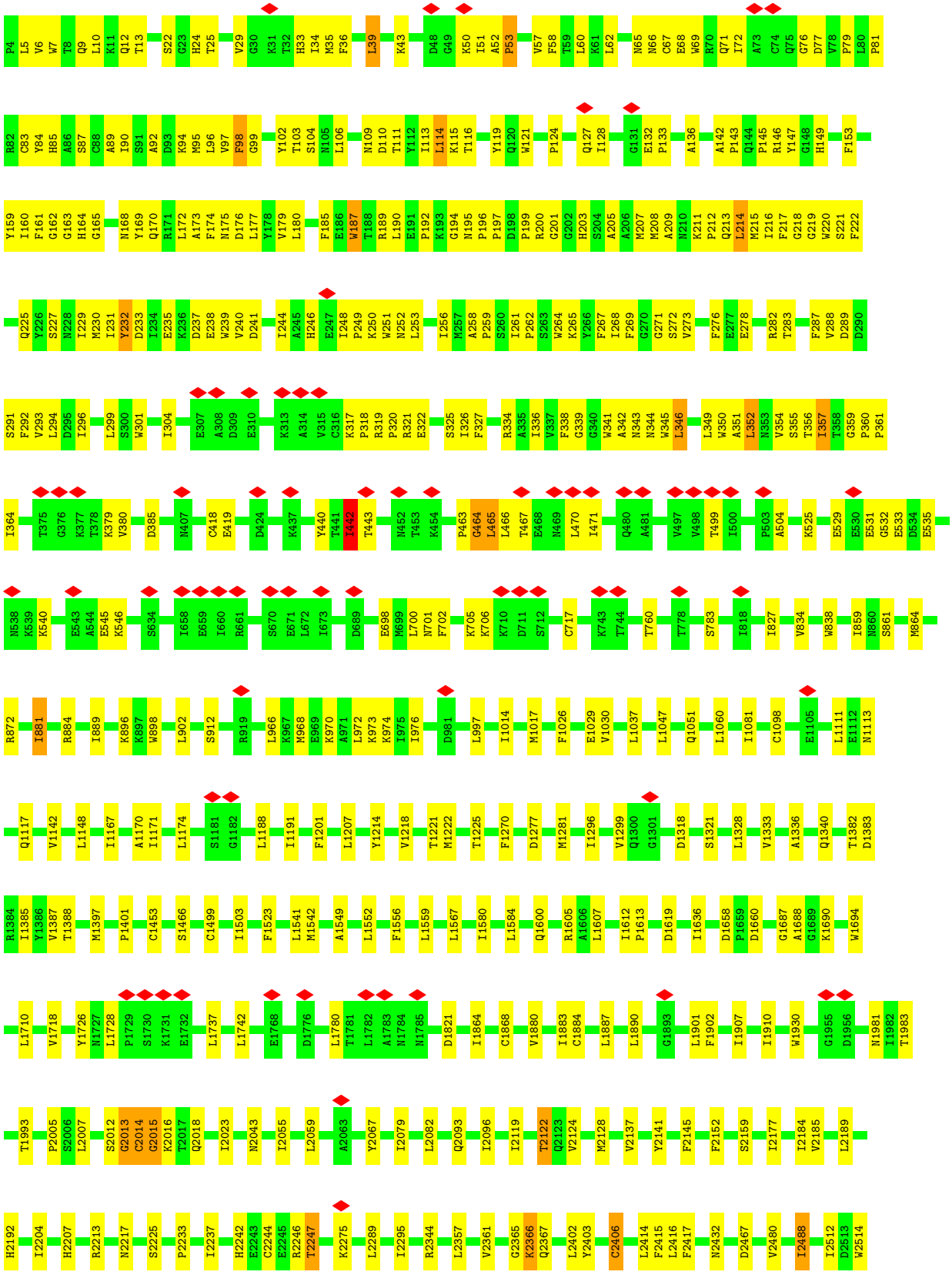


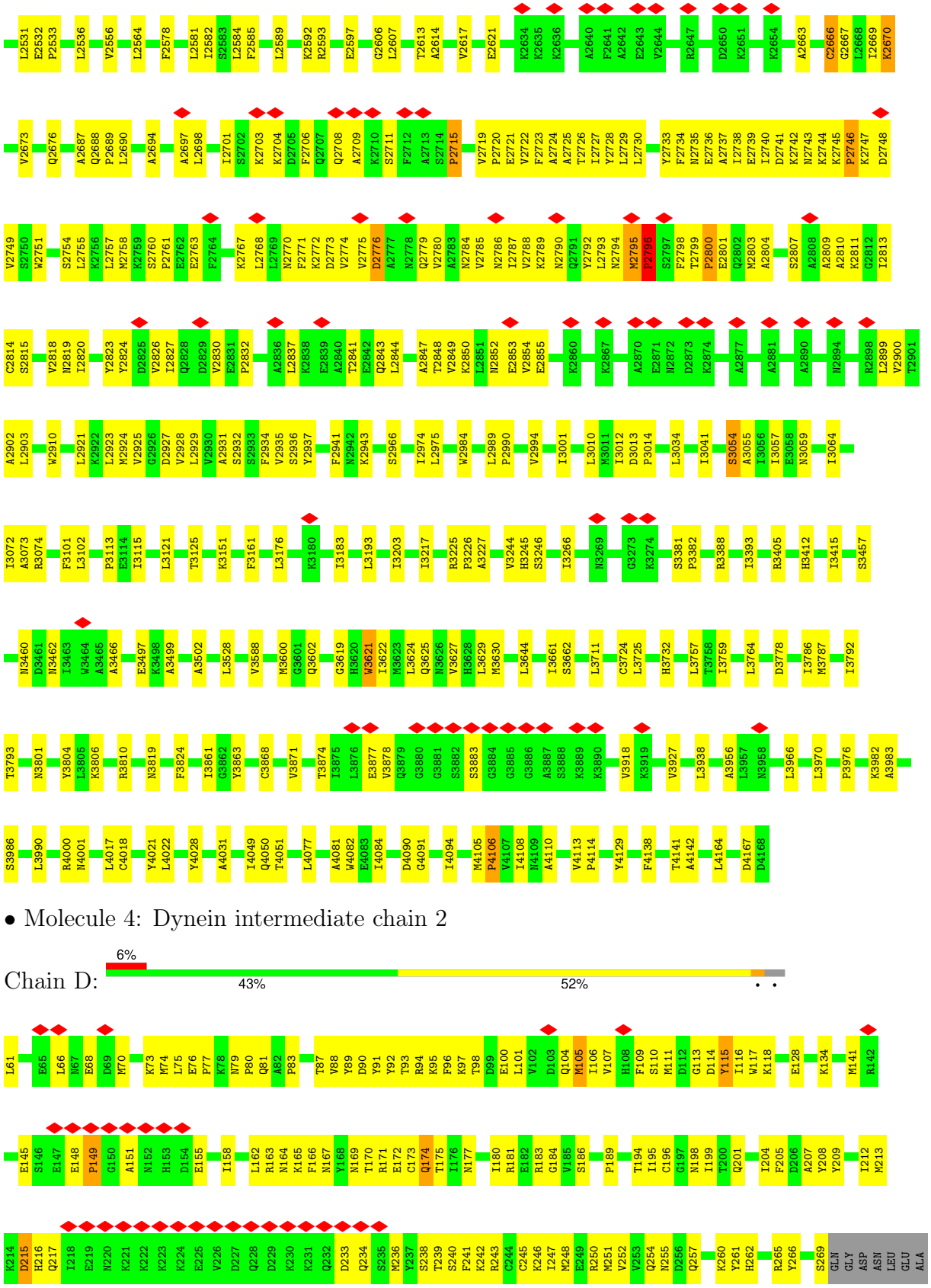




• Molecule 3: gamma heavy chain

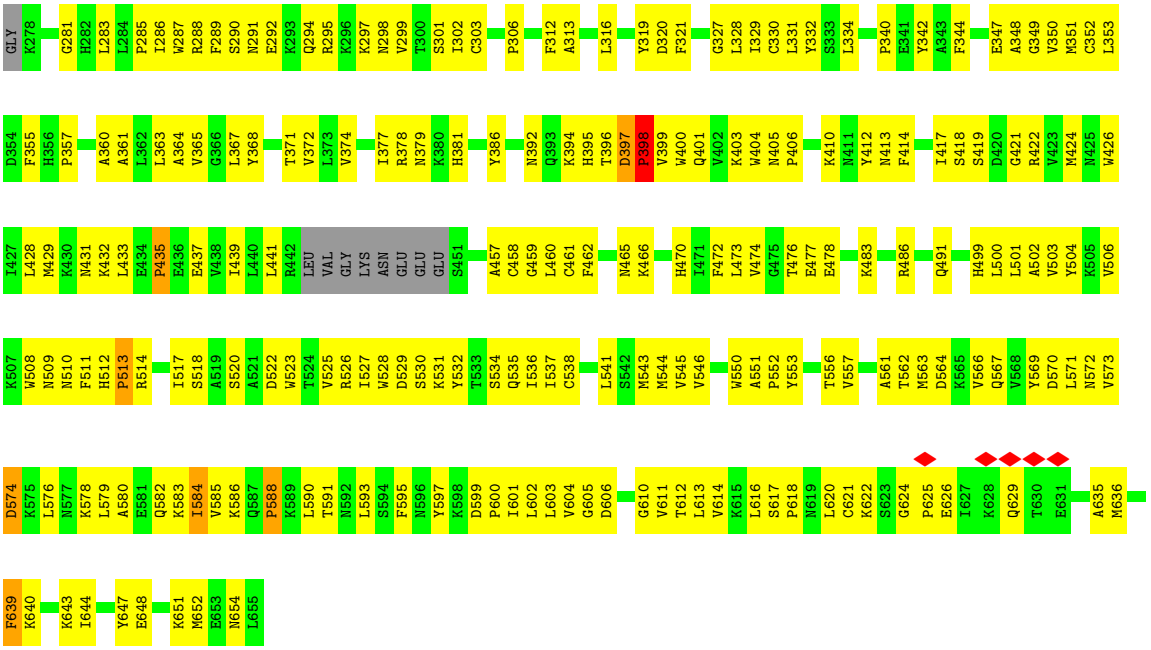
Chain C:


P4 L5 V6 W7 T8 Q9 L10 K11 Q12 T13 S22 G23 H24 T25 V29 G30 K31 T32 H33 I34 M35 F36 L39 K43 D48 G49 K50 I51 A52 P53 V57 F58 T59 L60 K61 L62 N65 N66 C67 E68 W69 R70 Q71 I72 A73 C74 Q75 G76 D77 V78 P79 L80 P81
R82 C83 Y84 H85 A86 S87 C88 A89 I90 S91 A92 D93 K94 M95 L96 V97 F98 G99 Y102 T103 S104 N105 L106 N109 D110 T111 Y112 I113 L114 K115 T116 Y119 Q120 W121 P124 Q127 I128 G131 E132 P133 A136 A142 P143 Q144 P145 R146 Y147 G148 H149 F153
Y159 I160 F161 G162 G163 H164 G165 N168 Y169 Q170 R171 L172 A173 F174 N175 D176 L177 Y178 V179 L180 F185 E186 W187 T188 R189 L190 E191 P192 K193 G194 N195 P196 P197 D198 P199 R200 G201 G202 H203 S204 A205 A206 M207 M208 A209 N210 K211 P212 Q213 L214 M215 I216 F217 G218 G219 W220 S221 F222
Q225 Y226 S227 N228 I229 M230 I231 Y232 D233 I234 E235 K236 D237 E238 W239 V240 D241 I244 A245 H246 E247 I248 P249 K250 W251 N252 L253 I256 M257 A258 P259 S260 I261 P262 S263 W264 K265 Y266 F267 I268 F269 G270 G271 S272 V273 F276 E277 E278 R282 T283 F287 V288 D289 D290
S291 F292 V293 L294 D295 I296 L299 S300 W301 I304 E307 A308 D309 E310 K313 A314 V315 C316 K317 P318 R319 P320 R321 E322 S325 I326 F327 R334 A335 I336 V337 F338 G339 G340 W341 A342 N343 N344 W345 L346 L349 W350 A351 L352 N353 V354 S355 T356 I357 T358 G359 P360 P361
I364 T375 G376 K377 T378 K379 V380 D385 N407 C418 E419 D424 K437 Y440 T441 I442 T443 N452 T453 K454 P463 G464 L465 L466 T467 E468 N469 L470 I471 Q480 A481 V497 V498 T499 I500 P503 A504 K525 E529 E530 E531 G532 E533 D534 E535
N538 K539 K540 E543 A544 E545 K546 S634 I658 E659 I660 R661 S670 E671 L672 I673 D689 E698 M699 L700 N701 F702 K705 K706 K710 D711 S712 C717 K743 T744 T760 T778 S783 I818 I827 V834 W838 I859 N860 S861 M864
R872 I881 R884 I889 K896 K897 W898 L902 S912 R919 L966 K967 M968 E969 K970 A971 L972 K973 K974 I975 I976 D981 L997 I1014 M1017 F1026 E1029 V1030 L1037 L1047 Q1051 L1060 I1081 C1098 E1105 L1111 E1112 N1113
Q1117 V1142 L1148 I1167 A1170 I1171 L1174 S1181 G1182 L1188 I1191 F1201 L1207 Y1214 V1218 T1221 M1222 T1225 F1270 D1277 M1281 I1296 V1299 Q1300 G1301 D1318 S1321 L1328 V1333 A1336 Q1340 T1382 D1383
R1384 I1385 Y1386 V1387 T1388 M1397 P1401 C1453 S1466 C1499 I1503 F1523 L1541 M1542 A1549 L1552 F1556 L1559 L1567 I1580 L1584 Q1600 R1605 A1606 L1607 I1612 P1613 D1619 I1636 D1658 P1659 D1660 G1687 A1688 G1689 K1690 W1694
L1710 V1718 Y1726 N1727 L1728 P1729 S1730 K1731 E1732 L1737 L1742 E1768 D1776 L1780 T1781 L1782 A1783 N1784 N1785 D1821 I1864 C1868 V1880 I1883 C1884 L1887 L1890 G1893 L1901 F1902 I1907 I1910 W1930 G1955 D1956 N1981 I1982 T1983
T1993 P2005 S2006 L2007 S2012 G2013 C2014 G2015 K2016 T2017 Q2018 I2023 N2043 I2055 L2059 A2063 Y2067 I2079 L2082 Q2093 I2096 I2119 T2122 Q2123 V2124 M2128 V2137 Y2141 F2145 F2152 S2159 I2177 I2184 V2185 L2189
H2192 I2204 H2207 R2213 N2217 S2225 P2233 I2237 H2242 E2243 C2244 E2245 R2246 T2247 K2275 L2289 I2295 R2344 L2357 V2361 G2365 K2366 Q2367 L2402 Y2403 C2406 L2414 F2415 L2416 F2417 N2432 D2467 V2480 I2488 I2512 D2513 W2514



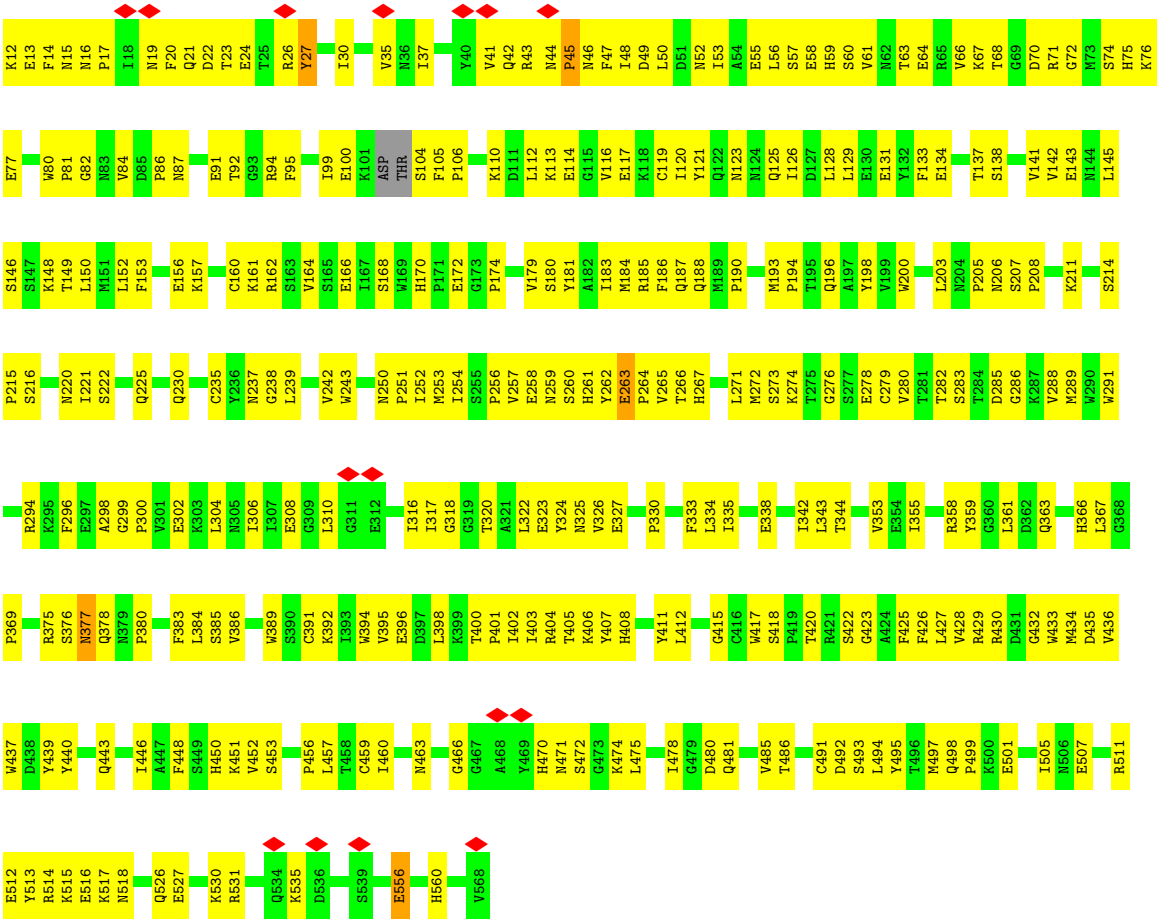
• Molecule 4: Dynein intermediate chain 2

Chain D:



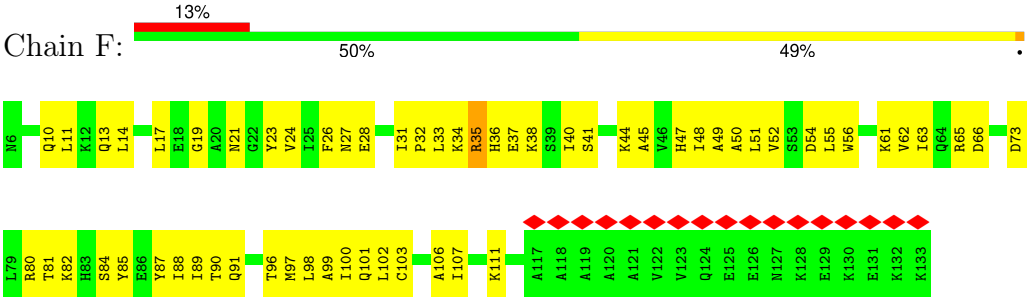
• Molecule 5: Flagellar outer dynein arm intermediate protein, putative

Chain E:



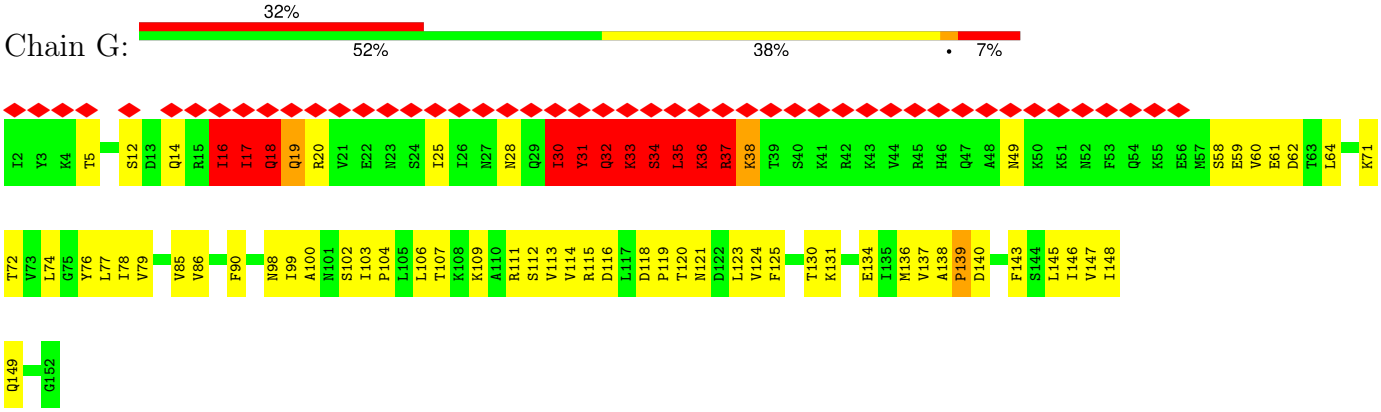
• Molecule 6: Dynein light chain roadblock-type 2 protein

Chain F:



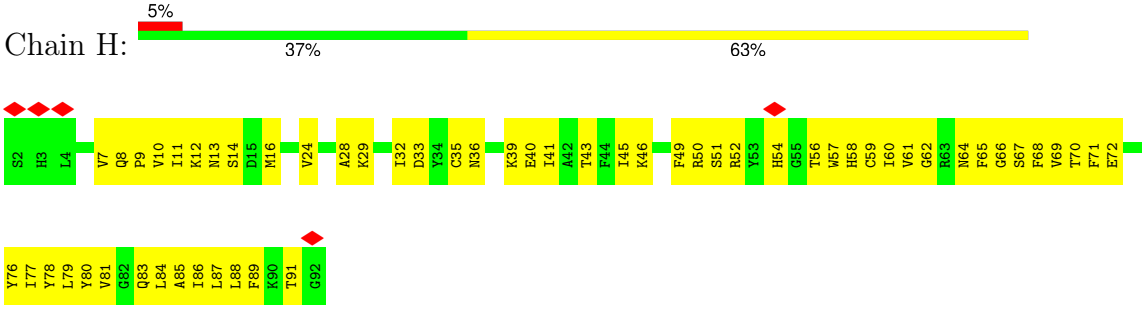
• Molecule 7: Dynein light chain roadblock-type 2 protein

Chain G:



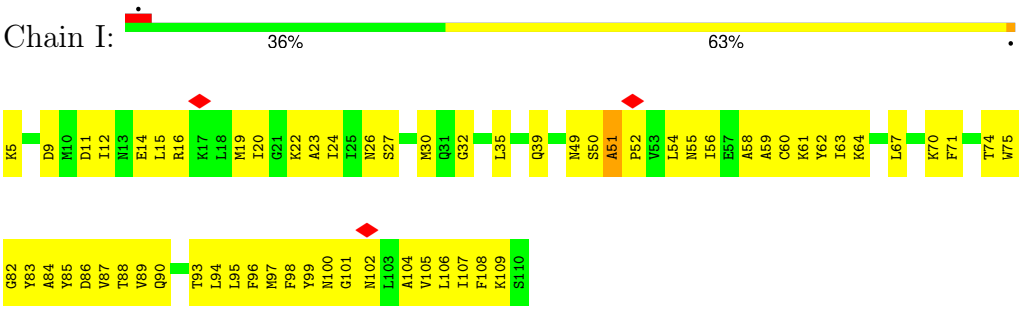
• Molecule 8: Dynein light chain

Chain H:



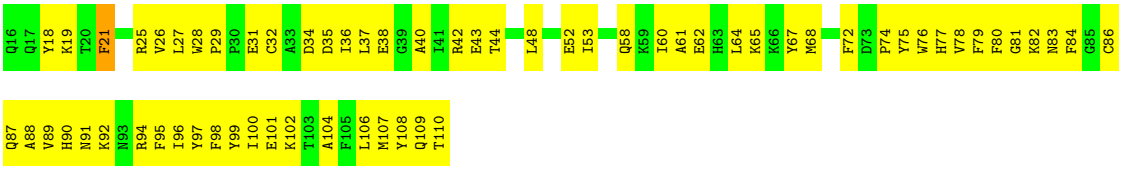
• Molecule 9: Dynein light chain

Chain I:

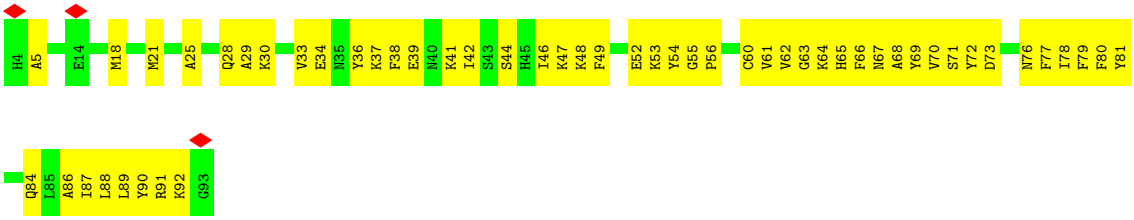


• Molecule 10: Dynein light chain

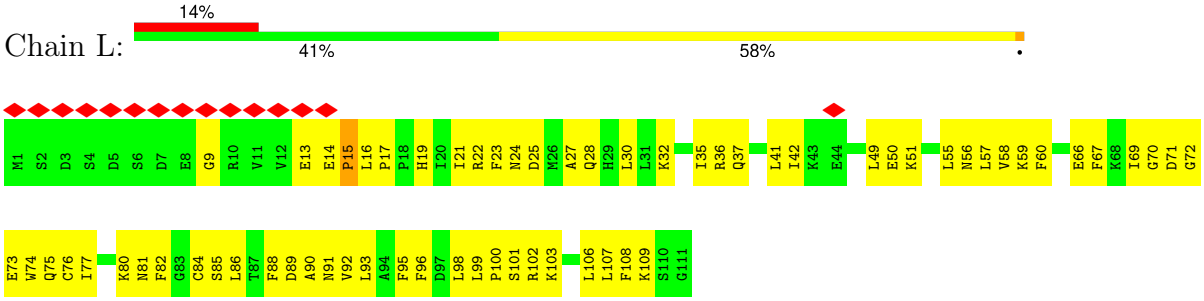
Chain J:



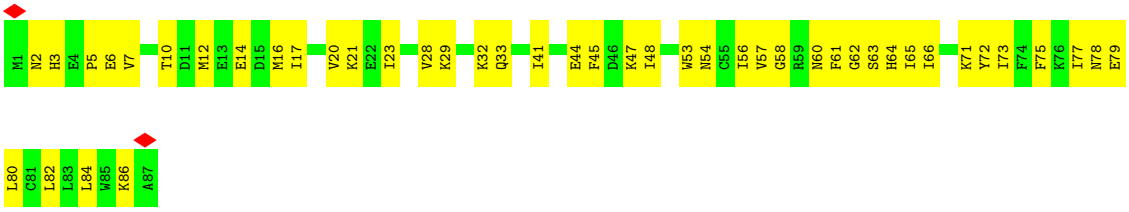
• Molecule 11: Dynein light chain



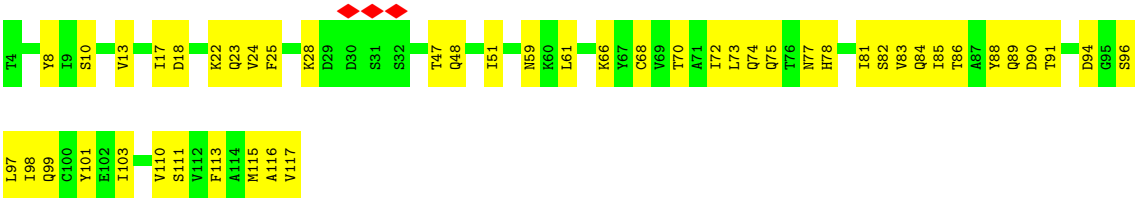
• Molecule 12: Dynein light chain



• Molecule 13: Dynein light chain

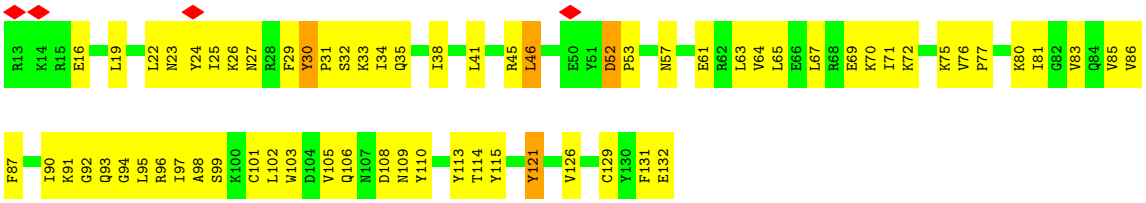


• Molecule 14: Dynein light chain tctex-type 1 protein



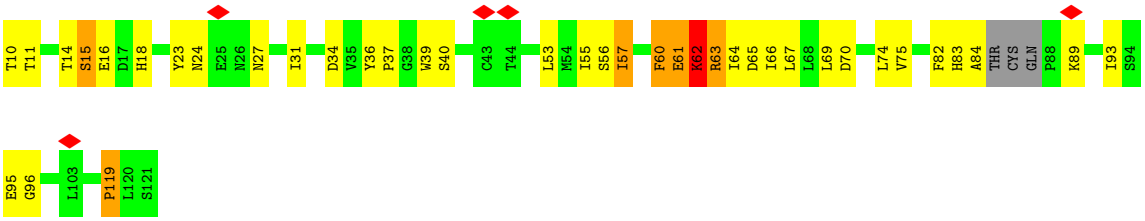
• Molecule 15: Dynein light chain 2A

Chain O:



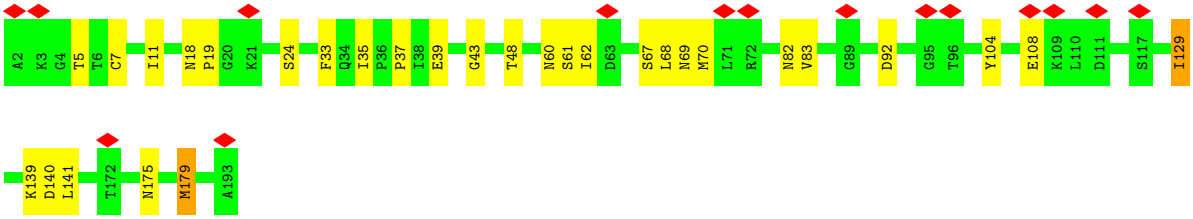
• Molecule 16: Thioredoxin

Chain P:



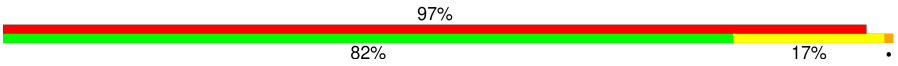
• Molecule 17: Dynein light chain 1

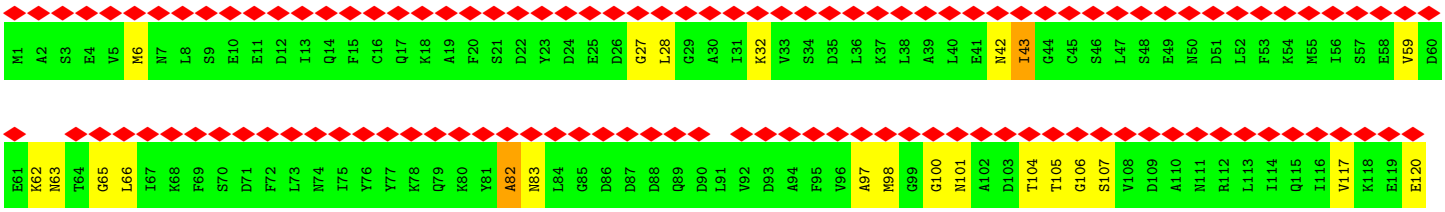
Chain Q:



• Molecule 18: Dynein light chain 4A

Chain R:





4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	76936	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	53.3	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	8.594	Depositor
Minimum map value	0.000	Depositor
Average map value	0.029	Depositor
Map value standard deviation	0.189	Depositor
Recommended contour level	0.7	Depositor
Map size (Å)	527.86786, 493.20984, 462.55084	wwPDB
Map dimensions	396, 370, 347	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.3329996, 1.3329996, 1.3329996	Depositor

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A	0.71	7/34544 (0.0%)	0.81	27/46728 (0.1%)
2	B	0.72	7/35358 (0.0%)	0.82	36/47850 (0.1%)
3	C	0.67	2/31033 (0.0%)	0.77	24/42007 (0.1%)
4	D	0.63	1/4789 (0.0%)	0.74	6/6477 (0.1%)
5	E	0.61	0/4540	0.64	0/6136
6	F	0.57	0/1008	0.58	0/1355
7	G	0.63	0/1030	0.98	11/1403 (0.8%)
8	H	0.63	0/767	0.61	0/1031
9	I	0.65	0/838	0.59	0/1131
10	J	0.61	0/832	0.65	0/1119
11	K	0.62	0/776	0.60	0/1038
12	L	0.60	0/872	0.61	0/1176
13	M	0.61	0/752	0.61	0/1006
14	N	0.66	0/864	0.67	0/1175
15	O	0.64	0/1012	0.64	0/1358
16	P	1.92	3/538 (0.6%)	1.60	15/746 (2.0%)
17	Q	0.33	0/1009	0.59	3/1392 (0.2%)
18	R	0.83	1/738 (0.1%)	0.95	2/1025 (0.2%)
All	All	0.70	21/121300 (0.0%)	0.79	124/164153 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	4
2	B	0	11
3	C	0	1
4	D	0	1
7	G	0	12

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Mol	Chain	#Chirality outliers	#Planarity outliers
16	P	0	2
All	All	0	31

All (21) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1067	PRO	N-CD	51.30	2.19	1.47
2	B	59	THR	C-N	-39.10	0.44	1.34
16	P	62	LYS	C-N	-30.53	0.63	1.34
16	P	15	SER	C-N	20.51	1.81	1.34
1	A	1649	ALA	C-N	-17.37	0.94	1.34
2	B	799	VAL	C-N	16.48	1.72	1.34
18	R	82	ALA	C-N	16.36	1.71	1.34
2	B	56	ASP	C-N	-16.22	0.96	1.34
1	A	943	THR	C-N	15.58	1.69	1.34
1	A	3351	PRO	N-CA	14.08	1.71	1.47
2	B	55	GLN	C-N	11.69	1.60	1.34
16	P	61	GLU	C-N	11.49	1.60	1.34
2	B	17	ARG	N-CA	11.47	1.69	1.46
1	A	1171	ILE	C-N	9.60	1.56	1.34
1	A	620	PRO	N-CD	-9.22	1.34	1.47
2	B	49	PHE	C-N	-6.76	1.18	1.34
2	B	99	LEU	C-N	-6.25	1.19	1.34
1	A	3350	LYS	C-N	6.20	1.46	1.34
3	C	442	ILE	C-N	5.89	1.47	1.34
3	C	364	ILE	C-N	-5.74	1.20	1.34
4	D	105	MET	C-N	5.47	1.46	1.34

All (124) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1171	ILE	CA-C-N	-49.31	8.71	117.20
1	A	1171	ILE	C-N-CA	-46.87	4.53	121.70
2	B	59	THR	O-C-N	-39.33	59.78	122.70
2	B	49	PHE	O-C-N	-27.89	78.07	122.70
3	C	467	THR	N-CA-CB	23.73	155.38	110.30
2	B	49	PHE	CA-C-N	20.77	162.90	117.20
4	D	105	MET	O-C-N	-20.27	90.26	122.70
16	P	62	LYS	O-C-N	-18.90	92.47	122.70
18	R	82	ALA	C-N-CA	-17.94	76.84	121.70
2	B	49	PHE	C-N-CA	16.81	163.74	121.70
2	B	3222	PRO	CA-N-CD	-16.46	88.45	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	1213	PRO	CA-N-CD	-15.77	89.42	111.50
2	B	137	LEU	N-CA-C	15.47	152.77	111.00
4	D	105	MET	CA-C-N	15.37	151.02	117.20
2	B	1186	PRO	CA-N-CD	-13.48	92.63	111.50
3	C	2832	PRO	CA-N-CD	-13.46	92.65	111.50
3	C	467	THR	CB-CA-C	-13.18	76.01	111.60
18	R	82	ALA	CA-C-N	-13.09	88.41	117.20
1	A	3203	PRO	CA-N-CD	-12.91	93.42	111.50
2	B	3355	PRO	CA-N-CD	-12.89	93.45	111.50
2	B	59	THR	C-N-CA	-12.85	89.58	121.70
1	A	1172	THR	O-C-N	-12.81	102.20	122.70
2	B	55	GLN	O-C-N	12.20	142.22	122.70
2	B	138	ASN	N-CA-CB	11.92	132.06	110.60
16	P	56	SER	N-CA-CB	11.56	127.84	110.50
2	B	103	ASN	O-C-N	11.47	141.06	122.70
2	B	799	VAL	O-C-N	11.45	141.02	122.70
16	P	15	SER	C-N-CA	-10.77	94.77	121.70
2	B	137	LEU	CB-CA-C	-10.46	90.33	110.20
2	B	799	VAL	CA-C-N	-10.06	95.07	117.20
3	C	442	ILE	CB-CA-C	-10.06	91.48	111.60
1	A	1172	THR	CA-C-N	9.90	138.97	117.20
16	P	57	ILE	CB-CA-C	-9.85	91.91	111.60
2	B	55	GLN	CA-C-N	-9.79	95.66	117.20
2	B	59	THR	CA-C-N	-9.61	96.06	117.20
3	C	2746	PRO	CA-N-CD	-9.51	98.19	111.50
4	D	398	PRO	CA-N-CD	-9.50	98.20	111.50
3	C	53	PRO	CA-N-CD	-9.40	98.34	111.50
3	C	2800	PRO	CA-N-CD	-9.15	98.69	111.50
3	C	2796	PRO	CA-N-CD	-9.09	98.78	111.50
1	A	3250	PRO	CA-N-CD	-9.03	98.85	111.50
16	P	57	ILE	N-CA-CB	8.89	131.24	110.80
3	C	442	ILE	N-CA-CB	8.80	131.03	110.80
2	B	16	ASN	C-N-CA	8.76	143.59	121.70
1	A	3351	PRO	CA-N-CD	-8.62	99.42	111.50
3	C	364	ILE	O-C-N	-8.31	109.40	122.70
2	B	103	ASN	CA-C-N	-8.16	99.26	117.20
7	G	17	ILE	O-C-N	-8.15	109.66	122.70
7	G	33	LYS	O-C-N	-8.14	109.67	122.70
7	G	32	GLN	O-C-N	-8.11	109.73	122.70
7	G	36	LYS	O-C-N	-8.10	109.73	122.70
7	G	37	ARG	O-C-N	-8.10	109.73	122.70
7	G	18	GLN	O-C-N	-8.09	109.75	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	G	35	LEU	O-C-N	-8.09	109.75	122.70
7	G	34	SER	O-C-N	-8.08	109.77	122.70
7	G	30	ILE	O-C-N	-8.08	109.78	122.70
7	G	31	TYR	O-C-N	-8.07	109.78	122.70
7	G	16	ILE	O-C-N	-8.07	109.79	122.70
2	B	799	VAL	C-N-CA	-7.91	101.92	121.70
2	B	73	PHE	N-CA-C	-7.81	89.92	111.00
1	A	1171	ILE	O-C-N	-7.70	110.37	122.70
1	A	1067	PRO	N-CD-CG	-7.68	91.68	103.20
4	D	105	MET	C-N-CA	7.38	140.15	121.70
1	A	121	GLY	O-C-N	-7.37	110.91	122.70
1	A	326	PRO	N-CA-CB	7.29	112.05	103.30
2	B	71	CYS	CB-CA-C	7.23	124.87	110.40
16	P	56	SER	CB-CA-C	-7.08	96.65	110.10
2	B	55	GLN	C-N-CA	-6.90	104.45	121.70
1	A	1268	ARG	CB-CA-C	6.88	124.15	110.40
1	A	1067	PRO	CA-N-CD	-6.73	102.08	111.50
16	P	60	PHE	CB-CA-C	-6.61	97.18	110.40
2	B	72	THR	N-CA-CB	6.56	122.77	110.30
3	C	442	ILE	C-N-CA	-6.54	105.34	121.70
16	P	61	GLU	CA-C-N	-6.46	102.98	117.20
2	B	84	PHE	O-C-N	6.40	132.94	122.70
16	P	62	LYS	CA-C-N	-6.39	103.13	117.20
16	P	62	LYS	CB-CA-C	-6.09	98.21	110.40
2	B	99	LEU	CA-C-N	-6.00	104.00	117.20
2	B	84	PHE	C-N-CA	5.90	136.44	121.70
16	P	62	LYS	C-N-CA	-5.86	107.05	121.70
2	B	71	CYS	N-CA-CB	5.85	121.14	110.60
2	B	84	PHE	CA-C-N	-5.80	104.44	117.20
3	C	466	LEU	CB-CA-C	-5.80	99.18	110.20
3	C	470	LEU	N-CA-CB	5.75	121.90	110.40
3	C	465	LEU	N-CA-CB	5.74	121.88	110.40
2	B	103	ASN	C-N-CA	-5.66	107.54	121.70
16	P	60	PHE	N-CA-CB	5.61	120.70	110.60
1	A	340	PRO	N-CA-CB	5.60	110.02	103.30
16	P	61	GLU	O-C-N	5.59	131.64	122.70
3	C	464	GLY	O-C-N	-5.56	113.80	122.70
2	B	99	LEU	O-C-N	5.54	131.57	122.70
1	A	1528	GLY	N-CA-C	5.46	126.75	113.10
3	C	364	ILE	C-N-CA	5.39	135.19	121.70
1	A	1067	PRO	N-CA-CB	5.37	109.75	103.30
3	C	466	LEU	N-CA-CB	5.31	121.03	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	283	PRO	N-CA-CB	5.30	109.67	103.30
16	P	62	LYS	N-CA-CB	5.29	120.13	110.60
4	D	574	ASP	CB-CG-OD2	5.29	123.06	118.30
3	C	470	LEU	CB-CA-C	-5.28	100.17	110.20
3	C	465	LEU	CB-CA-C	-5.28	100.18	110.20
4	D	215	ASP	CB-CG-OD2	5.27	123.04	118.30
1	A	1424	ASP	CB-CG-OD2	5.27	123.04	118.30
2	B	1471	ASP	CB-CG-OD2	5.26	123.03	118.30
1	A	1418	ASP	CB-CG-OD2	5.26	123.03	118.30
3	C	2748	ASP	CB-CG-OD2	5.24	123.02	118.30
3	C	364	ILE	CA-C-N	5.24	128.72	117.20
16	P	61	GLU	CB-CA-C	-5.23	99.93	110.40
2	B	1432	ASP	CB-CG-OD2	5.22	123.00	118.30
2	B	3232	ASP	CB-CG-OD2	5.22	123.00	118.30
1	A	1411	ASP	CB-CG-OD2	5.22	123.00	118.30
1	A	3219	ASP	CB-CG-OD2	5.21	122.99	118.30
3	C	2741	ASP	CB-CG-OD2	5.20	122.98	118.30
1	A	846	ASP	CB-CG-OD2	5.19	122.97	118.30
1	A	1415	ASP	CB-CG-OD2	5.17	122.95	118.30
1	A	3231	ASP	CB-CG-OD2	5.16	122.94	118.30
3	C	2773	ASP	CB-CG-OD2	5.16	122.94	118.30
1	A	940	ASP	CB-CG-OD2	5.15	122.93	118.30
3	C	2776	ASP	CB-CG-OD2	5.14	122.93	118.30
2	B	831	ASP	CB-CG-OD2	5.12	122.91	118.30
1	A	3283	ASP	CB-CG-OD2	5.11	122.90	118.30
1	A	1043	PRO	N-CA-C	5.04	125.21	112.10
17	Q	179	MET	N-CA-C	5.01	124.54	111.00
17	Q	18	ASN	C-N-CA	5.00	143.01	122.00
17	Q	179	MET	CA-C-O	5.00	130.60	120.10

There are no chirality outliers.

All (31) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1171	ILE	Mainchain,Peptide
1	A	121	GLY	Mainchain
1	A	1649	ALA	Mainchain
2	B	109	VAL	Mainchain
2	B	1166	GLU	Mainchain
2	B	1462	LYS	Peptide
2	B	25	GLN	Peptide
2	B	49	PHE	Mainchain,Peptide

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Mol	Chain	Res	Type	Group
2	B	56	ASP	Mainchain
2	B	59	THR	Mainchain
2	B	84	PHE	Mainchain
2	B	909	SER	Mainchain
2	B	99	LEU	Mainchain
3	C	464	GLY	Mainchain
4	D	233	ASP	Peptide
7	G	16	ILE	Mainchain
7	G	17	ILE	Mainchain
7	G	18	GLN	Mainchain
7	G	28	ASN	Peptide
7	G	30	ILE	Mainchain
7	G	31	TYR	Mainchain
7	G	32	GLN	Mainchain
7	G	33	LYS	Mainchain
7	G	34	SER	Mainchain
7	G	35	LEU	Mainchain
7	G	36	LYS	Mainchain
7	G	37	ARG	Mainchain
16	P	62	LYS	Mainchain
16	P	70	ASP	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	33975	0	32379	2211	0
2	B	34751	0	33289	2334	0
3	C	30427	0	29352	1238	0
4	D	4680	0	4511	1070	0
5	E	4440	0	4311	909	0
6	F	996	0	1019	263	0
7	G	1024	0	883	189	0
8	H	750	0	734	219	0
9	I	827	0	826	293	0
10	J	807	0	772	268	0
11	K	754	0	716	122	0
12	L	855	0	854	211	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	M	735	0	738	192	0
14	N	852	0	799	201	0
15	O	994	0	1017	311	0
16	P	541	0	217	56	0
17	Q	1006	0	512	51	0
18	R	739	156	339	45	0
19	A	54	0	23	31	0
19	B	54	0	24	18	0
19	C	54	0	22	32	0
20	A	31	0	12	10	0
20	B	31	0	12	43	0
20	C	31	0	12	2	0
21	A	3	0	0	2	0
21	B	3	0	0	0	0
21	C	3	0	0	0	0
All	All	119417	156	113373	8535	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 37.

All (8535) 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)
10:J:86:CYS:SG	11:K:61:VAL:HG22	1.24	1.72
1:A:3235:TYR:CE2	1:A:3269:LEU:HD13	1.25	1.71
3:C:196:PRO:HA	3:C:239:TRP:CZ2	1.23	1.67
2:B:3118:TYR:CE2	2:B:3452:LEU:HA	1.25	1.64
4:D:170:THR:CG2	13:M:66:ILE:CG1	1.74	1.64
14:N:25:PHE:CE1	14:N:103:ILE:HG21	1.17	1.64
2:B:1474:MET:SD	2:B:1515:VAL:HG11	1.32	1.64
1:A:3232:ILE:HG12	1:A:3316:TRP:CZ3	1.14	1.63
1:A:3290:LEU:HD22	1:A:3335:TRP:CZ2	1.09	1.62
2:B:58:SER:HA	2:B:83:LYS:CB	1.26	1.62
2:B:544:HIS:CE1	2:B:609:LEU:HD12	1.32	1.62
4:D:172:GLU:CB	13:M:64:HIS:HB3	1.26	1.62
2:B:957:GLN:HG2	3:C:164:HIS:CE1	1.34	1.62
1:A:935:VAL:HG22	1:A:944:LEU:CD2	1.23	1.62
2:B:3:ASP:CB	2:B:7:LYS:HA	1.19	1.61
2:B:864:ASN:HB2	2:B:947:LEU:CD2	1.15	1.61
2:B:429:LEU:HD12	2:B:489:PHE:CE2	1.32	1.60
2:B:744:MET:SD	2:B:772:ILE:HG13	1.40	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:997:LYS:CD	18:R:149:LEU:HA	1.18	1.60
1:A:1445:PHE:CE2	1:A:1564:CYS:HB3	1.14	1.60
4:D:177:ASN:HD21	13:M:60:ASN:CB	1.02	1.60
1:A:891:PHE:CE1	1:A:972:TRP:CE3	1.88	1.60
2:B:436:PHE:CE1	2:B:499:LEU:CD2	1.77	1.60
3:C:2745:LYS:CD	3:C:2749:VAL:HG21	1.14	1.60
2:B:970:ALA:CB	3:C:345:TRP:CZ3	1.82	1.60
1:A:3121:LEU:HD21	1:A:3429:TRP:CB	1.16	1.60
5:E:20:PHE:CZ	15:O:80:LYS:HG3	1.10	1.60
2:B:1238:LYS:CE	2:B:1308:LEU:HA	1.22	1.59
5:E:61:VAL:CG2	10:J:106:LEU:HD22	1.32	1.59
5:E:117:GLU:HG3	6:F:17:LEU:CD1	1.17	1.59
1:A:1525:PHE:HB2	1:A:1541:PHE:CD2	1.36	1.59
1:A:2839:LEU:HD12	19:A:4901:ADP:C2	1.07	1.59
1:A:3232:ILE:CG1	1:A:3316:TRP:CZ3	1.79	1.59
2:B:713:VAL:CG1	5:E:258:GLU:HG3	1.15	1.58
4:D:251:MET:HB3	7:G:136:MET:CE	1.15	1.58
6:F:48:ILE:HD11	6:F:98:LEU:CD2	1.12	1.58
6:F:48:ILE:CD1	6:F:98:LEU:HD23	1.26	1.58
2:B:444:LEU:HA	5:E:515:LYS:CG	1.32	1.58
2:B:1329:PRO:HA	2:B:1412:PHE:CB	1.20	1.58
1:A:3257:VAL:HG21	1:A:3266:VAL:CG1	1.16	1.58
3:C:2711:SER:HB3	3:C:2751:TRP:CZ2	1.30	1.58
3:C:2726:THR:HA	3:C:2729:LEU:CD1	1.15	1.57
5:E:117:GLU:CG	6:F:17:LEU:HD11	1.32	1.57
14:N:72:ILE:HG23	15:O:97:ILE:CG1	1.33	1.57
2:B:1511:VAL:CB	2:B:1570:VAL:HG21	1.17	1.56
2:B:555:LEU:CD2	2:B:625:LEU:CD2	1.79	1.56
1:A:3249:ILE:CG1	1:A:3273:TYR:HA	1.32	1.56
2:B:1447:ILE:CG2	2:B:1504:TRP:HE1	0.97	1.56
5:E:20:PHE:CE2	15:O:80:LYS:HE3	1.36	1.56
2:B:10:PRO:CB	2:B:25:GLN:HA	1.32	1.55
2:B:582:MET:HE1	2:B:587:GLY:CA	1.22	1.55
2:B:1058:LYS:CG	2:B:1166:GLU:HB3	1.29	1.55
2:B:501:ARG:NH2	4:D:491:GLN:CG	1.68	1.55
2:B:3:ASP:CB	2:B:7:LYS:CA	1.78	1.55
2:B:1488:LYS:CB	2:B:1501:VAL:HG11	1.35	1.54
5:E:16:ASN:CB	15:O:132:GLU:HG3	1.28	1.54
5:E:20:PHE:CZ	15:O:80:LYS:CG	1.89	1.54
2:B:10:PRO:CA	2:B:25:GLN:CA	1.85	1.54
4:D:207:ALA:CB	9:I:24:ILE:HD11	1.30	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:251:MET:CB	7:G:136:MET:HE1	1.12	1.54
2:B:801:ILE:HD12	2:B:878:ALA:CA	1.26	1.54
2:B:3153:LEU:HD13	2:B:3707:LEU:CD1	1.33	1.54
1:A:1422:SER:HB2	1:A:1486:HIS:CE1	1.41	1.54
2:B:864:ASN:CA	2:B:947:LEU:HG	1.32	1.54
3:C:2669:ILE:HD12	3:C:2847:ALA:CB	1.35	1.54
3:C:2745:LYS:HD2	3:C:2749:VAL:CG2	1.07	1.54
6:F:91:GLN:HG2	6:F:96:THR:CG2	1.35	1.54
2:B:10:PRO:HA	2:B:25:GLN:CA	1.35	1.53
3:C:2738:ILE:HA	3:C:2746:PRO:CG	1.35	1.53
1:A:2839:LEU:CD1	19:A:4901:ADP:N1	1.71	1.53
2:B:864:ASN:CB	2:B:947:LEU:CG	1.81	1.53
3:C:2738:ILE:CA	3:C:2746:PRO:HG3	1.31	1.53
2:B:444:LEU:CA	5:E:515:LYS:HG3	1.36	1.53
14:N:25:PHE:CE1	14:N:103:ILE:CG2	1.85	1.53
2:B:582:MET:CE	2:B:587:GLY:HA2	1.11	1.52
2:B:17:ARG:N	2:B:17:ARG:CA	1.69	1.52
3:C:2740:ILE:HG21	3:C:2744:LYS:CB	1.30	1.52
6:F:14:LEU:CD2	6:F:23:TYR:HB3	1.39	1.52
2:B:1607:PRO:CG	2:B:1946:SER:HB3	1.38	1.52
6:F:11:LEU:HD22	6:F:23:TYR:CE1	1.02	1.51
3:C:2720:PRO:HB2	3:C:2798:PHE:CE2	1.46	1.51
2:B:409:SER:CB	2:B:413:PHE:CD1	1.90	1.51
2:B:3118:TYR:HE2	2:B:3452:LEU:CA	1.23	1.51
1:A:3235:TYR:CE2	1:A:3269:LEU:CD1	1.90	1.51
2:B:429:LEU:CD1	2:B:489:PHE:CE2	1.88	1.51
2:B:3153:LEU:CD1	2:B:3707:LEU:HD11	1.07	1.51
2:B:957:GLN:CG	3:C:164:HIS:CE1	1.93	1.50
2:B:3446:SER:CB	2:B:3489:THR:HG23	1.35	1.50
8:H:66:GLY:HA3	9:I:56:ILE:CG2	1.07	1.50
1:A:1132:LEU:C	1:A:1272:LEU:HD11	1.25	1.50
1:A:3232:ILE:HG12	1:A:3316:TRP:CE3	1.45	1.50
1:A:3290:LEU:CD2	1:A:3335:TRP:CZ2	1.91	1.50
2:B:864:ASN:CB	2:B:947:LEU:HG	1.31	1.50
3:C:2740:ILE:CG2	3:C:2744:LYS:HB2	1.40	1.50
4:D:569:TYR:CZ	4:D:578:LYS:HG2	1.43	1.50
6:F:11:LEU:CD2	6:F:23:TYR:CE1	1.94	1.50
17:Q:68:LEU:C	17:Q:92:ASP:CB	1.79	1.50
2:B:555:LEU:HD23	2:B:625:LEU:CD2	1.39	1.49
2:B:2334:TYR:N	20:B:5601:ATP:H2	1.07	1.49
1:A:2839:LEU:CD1	19:A:4901:ADP:C2	1.95	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1395:LEU:CB	2:B:1430:ILE:HD13	1.03	1.49
5:E:310:LEU:CG	5:E:358:ARG:NH2	1.71	1.49
5:E:20:PHE:CD2	15:O:80:LYS:CE	1.91	1.49
3:C:165:GLY:O	3:C:174:PHE:CZ	1.65	1.49
2:B:1456:PHE:CZ	2:B:1563:VAL:CG1	1.92	1.49
1:A:3121:LEU:CD2	1:A:3429:TRP:HB3	1.00	1.48
4:D:395:HIS:NE2	4:D:399:VAL:CG1	1.69	1.48
1:A:3257:VAL:CG2	1:A:3266:VAL:CG1	1.90	1.48
1:A:3257:VAL:CB	1:A:3266:VAL:HG13	1.41	1.48
1:A:580:LEU:CD2	1:A:640:SER:HB3	1.41	1.47
1:A:3103:TYR:CE2	1:A:3444:VAL:HG22	1.47	1.47
1:A:3232:ILE:CD1	1:A:3316:TRP:HZ3	1.24	1.47
5:E:16:ASN:HB2	15:O:132:GLU:CA	1.41	1.47
4:D:297:LYS:NZ	4:D:328:LEU:HB2	1.22	1.47
5:E:100:GLU:HB3	5:E:105:PHE:CD2	1.49	1.47
8:H:54:HIS:CE1	18:R:62:LYS:HA	1.49	1.47
1:A:1445:PHE:CE2	1:A:1564:CYS:CB	1.95	1.46
2:B:544:HIS:HE1	2:B:609:LEU:CD1	1.28	1.46
2:B:1456:PHE:CE1	2:B:1563:VAL:HG12	1.47	1.46
1:A:2839:LEU:HD11	19:A:4901:ADP:C6	1.47	1.46
1:A:3106:LYS:HG2	1:A:3443:LEU:CD1	1.46	1.46
3:C:196:PRO:CA	3:C:239:TRP:HZ2	1.24	1.46
4:D:172:GLU:HB3	13:M:64:HIS:CB	1.43	1.46
8:H:66:GLY:CA	9:I:56:ILE:HG21	1.40	1.46
3:C:60:LEU:HD21	3:C:69:TRP:CZ3	1.47	1.46
2:B:1474:MET:CE	2:B:1515:VAL:HG11	1.47	1.45
2:B:1511:VAL:HA	2:B:1570:VAL:CG2	1.41	1.45
2:B:3264:ASN:HB2	2:B:3306:ILE:CD1	1.43	1.45
3:C:2726:THR:CA	3:C:2729:LEU:HD12	1.45	1.45
3:C:2803:MET:CB	3:C:2814:CYS:SG	2.05	1.45
5:E:20:PHE:CD2	15:O:80:LYS:HE3	0.95	1.45
8:H:51:SER:HB2	18:R:32:LYS:CB	1.44	1.45
2:B:1395:LEU:CB	2:B:1430:ILE:CD1	1.95	1.45
2:B:3301:ASN:ND2	2:B:3351:LYS:HZ3	1.15	1.45
6:F:56:TRP:CE2	6:F:91:GLN:OE1	1.67	1.45
18:R:120:GLU:CB	18:R:124:THR:CB	1.93	1.45
5:E:164:VAL:HG22	5:E:181:TYR:CE1	1.51	1.45
1:A:1009:THR:HB	1:A:1074:MET:SD	1.52	1.44
1:A:3121:LEU:CD2	1:A:3429:TRP:CB	1.76	1.44
1:A:943:THR:C	1:A:944:LEU:N	1.69	1.44
3:C:2701:ILE:CD1	3:C:2704:LYS:CD	1.94	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:20:PHE:CE2	15:O:80:LYS:HG3	1.51	1.44
2:B:349:ASN:CB	2:B:416:LEU:HD21	1.46	1.44
3:C:2701:ILE:HD11	3:C:2704:LYS:CD	0.98	1.44
4:D:115:TYR:OH	14:N:78:HIS:CD2	1.69	1.44
6:F:14:LEU:HD23	6:F:23:TYR:CD2	1.51	1.44
18:R:82:ALA:C	18:R:83:ASN:N	1.71	1.44
1:A:1513:LYS:CE	1:A:1578:ASN:HD21	1.31	1.43
4:D:294:GLN:NE2	4:D:297:LYS:HE2	1.12	1.43
1:A:1030:SER:O	1:A:1092:TRP:CH2	1.70	1.43
5:E:492:ASP:HA	5:E:495:TYR:CE2	1.54	1.43
1:A:3446:ASN:ND2	1:A:3488:LEU:HD13	1.27	1.43
2:B:682:LYS:NZ	5:E:186:PHE:CD1	1.71	1.43
7:G:120:THR:CG2	9:I:12:ILE:HG23	1.45	1.43
2:B:1447:ILE:HG21	2:B:1504:TRP:NE1	1.25	1.42
2:B:1511:VAL:CA	2:B:1570:VAL:HG21	1.48	1.42
7:G:119:PRO:HD2	9:I:12:ILE:CD1	1.46	1.42
2:B:10:PRO:CA	2:B:25:GLN:HA	0.97	1.42
2:B:1485:MET:CB	2:B:1505:ARG:NE	1.81	1.42
3:C:2709:ALA:HA	3:C:2758:MET:SD	1.56	1.42
4:D:552:PRO:HD2	4:D:595:PHE:CD2	1.53	1.42
8:H:66:GLY:CA	9:I:56:ILE:CG2	1.91	1.42
14:N:25:PHE:CZ	14:N:103:ILE:HG21	1.54	1.42
1:A:3257:VAL:CG1	1:A:3266:VAL:HG13	1.48	1.42
2:B:349:ASN:CA	2:B:416:LEU:HD21	1.43	1.42
2:B:2333:PRO:HB2	20:B:5601:ATP:N1	1.33	1.42
1:A:906:LEU:HD13	1:A:998:VAL:CG1	0.94	1.42
2:B:799:VAL:C	2:B:800:LYS:N	1.72	1.42
6:F:56:TRP:CD1	6:F:91:GLN:NE2	1.80	1.42
1:A:3232:ILE:CG1	1:A:3316:TRP:HZ3	1.20	1.41
1:A:1012:LYS:NZ	1:A:1072:GLY:N	1.67	1.41
2:B:903:ARG:CB	2:B:914:ASP:OD2	1.68	1.41
1:A:1012:LYS:CE	1:A:1071:ILE:HB	1.47	1.41
2:B:798:ASN:HB3	2:B:874:ALA:CB	1.47	1.41
2:B:3446:SER:HB2	2:B:3489:THR:CG2	1.48	1.41
2:B:3178:VAL:CG1	2:B:3395:LEU:HD21	1.47	1.41
3:C:2792:TYR:O	3:C:2796:PRO:CG	1.64	1.41
2:B:444:LEU:HD23	5:E:515:LYS:CE	1.50	1.41
2:B:3150:VAL:HG12	2:B:3423:VAL:CG2	1.50	1.41
1:A:853:VAL:HB	5:E:206:ASN:ND2	1.22	1.40
1:A:3106:LYS:CG	1:A:3443:LEU:HD21	1.47	1.40
2:B:1058:LYS:HG3	2:B:1166:GLU:CB	1.49	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1133:GLY:CA	1:A:1268:ARG:O	1.67	1.40
6:F:56:TRP:CZ2	6:F:91:GLN:OE1	1.73	1.40
1:A:755:HIS:CE1	1:A:869:TYR:CD2	2.08	1.40
1:A:997:LYS:HD3	18:R:149:LEU:CA	1.49	1.40
1:A:1525:PHE:CB	1:A:1541:PHE:HD2	1.32	1.40
2:B:1447:ILE:CG2	2:B:1504:TRP:NE1	1.70	1.40
5:E:395:VAL:CG2	5:E:402:ILE:CD1	1.99	1.40
10:J:61:ALA:HB2	10:J:80:PHE:CE2	1.56	1.40
1:A:723:PHE:HE1	1:A:772:TRP:NE1	1.18	1.40
2:B:963:PHE:HE2	3:C:104:SER:N	1.11	1.40
2:B:1329:PRO:CA	2:B:1412:PHE:CB	1.99	1.40
3:C:2721:GLU:HB2	3:C:2803:MET:CE	1.51	1.40
1:A:576:TYR:CE1	1:A:620:PRO:O	1.75	1.39
2:B:1467:PHE:CB	2:B:1470:LEU:HD11	1.52	1.39
3:C:2701:ILE:CD1	3:C:2704:LYS:HD2	1.49	1.39
16:P:11:THR:O	16:P:67:LEU:CB	1.67	1.39
1:A:1020:PHE:CZ	1:A:1069:TYR:CE1	2.09	1.39
1:A:155:GLY:CA	2:B:168:ILE:HA	1.53	1.39
2:B:111:VAL:C	2:B:118:LEU:CB	1.91	1.39
2:B:444:LEU:HD23	5:E:515:LYS:NZ	1.33	1.39
10:J:77:HIS:ND1	11:K:70:VAL:CG2	1.85	1.39
1:A:1273:PHE:CA	4:D:166:PHE:CZ	1.98	1.38
2:B:861:ASP:OD2	3:C:170:GLN:CB	1.68	1.38
2:B:1456:PHE:CD2	2:B:1569:VAL:HG13	1.57	1.38
3:C:2701:ILE:HD11	3:C:2704:LYS:CE	1.52	1.38
1:A:2839:LEU:HD12	19:A:4901:ADP:N1	1.17	1.38
1:A:3257:VAL:CG2	1:A:3266:VAL:HG13	1.46	1.38
2:B:1058:LYS:CE	2:B:1166:GLU:O	1.70	1.38
1:A:1012:LYS:NZ	1:A:1072:GLY:H	0.89	1.38
1:A:1012:LYS:HE2	1:A:1071:ILE:CB	1.54	1.38
2:B:3:ASP:O	2:B:7:LYS:CB	1.71	1.38
10:J:38:GLU:CD	15:O:29:PHE:CE2	1.94	1.38
1:A:906:LEU:CD1	1:A:998:VAL:HG11	0.92	1.38
2:B:1511:VAL:CA	2:B:1570:VAL:CG2	1.98	1.38
2:B:1511:VAL:HG22	2:B:1570:VAL:CB	1.55	1.37
1:A:1422:SER:HB2	1:A:1486:HIS:NE2	1.39	1.37
1:A:3106:LYS:HG3	1:A:3443:LEU:CD2	1.53	1.37
2:B:501:ARG:CZ	4:D:491:GLN:HG3	1.54	1.37
2:B:3228:GLU:HG3	2:B:3346:PHE:CE1	1.58	1.37
1:A:972:TRP:CZ3	1:A:985:PHE:HZ	1.42	1.36
2:B:409:SER:HB2	2:B:413:PHE:CD1	1.56	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:132:GLU:CD	3:C:133:PRO:HD2	1.44	1.36
14:N:72:ILE:CG2	15:O:97:ILE:HD11	1.53	1.36
1:A:972:TRP:CZ3	1:A:985:PHE:CZ	2.12	1.36
1:A:1513:LYS:CD	1:A:1578:ASN:HD21	1.35	1.36
1:A:1274:GLY:HA3	4:D:164:ASN:CB	1.55	1.36
2:B:433:ILE:HG23	2:B:463:PHE:CZ	1.61	1.36
1:A:1157:GLN:CG	1:A:1180:ARG:HH21	1.38	1.35
2:B:3:ASP:C	2:B:7:LYS:CB	1.91	1.35
1:A:403:ALA:HB2	1:A:471:ASN:CB	1.55	1.35
1:A:3268:PHE:CE1	17:Q:35:ILE:CB	2.08	1.35
2:B:582:MET:CE	2:B:587:GLY:CA	1.86	1.35
6:F:56:TRP:CE2	6:F:91:GLN:CD	1.99	1.35
14:N:25:PHE:HE1	14:N:103:ILE:CG2	1.28	1.35
5:E:20:PHE:CE2	15:O:80:LYS:CE	2.00	1.35
2:B:2333:PRO:CB	20:B:5601:ATP:N1	1.89	1.35
3:C:2669:ILE:O	3:C:2844:LEU:CB	1.73	1.35
2:B:861:ASP:CG	3:C:170:GLN:HB3	1.42	1.35
2:B:1456:PHE:CZ	2:B:1563:VAL:HG12	1.55	1.35
3:C:2793:LEU:O	3:C:2796:PRO:CD	1.73	1.35
1:A:891:PHE:CD1	1:A:972:TRP:CE3	2.16	1.34
4:D:75:LEU:HB2	15:O:102:LEU:CD1	1.54	1.34
16:P:15:SER:C	16:P:16:GLU:N	1.81	1.34
14:N:72:ILE:CG2	15:O:97:ILE:CD1	2.04	1.34
17:Q:69:ASN:N	17:Q:92:ASP:CB	1.91	1.34
1:A:1633:ALA:CB	1:A:1839:LEU:O	1.74	1.34
2:B:1223:LYS:NZ	2:B:1277:ARG:CB	1.91	1.34
4:D:91:TYR:CE2	13:M:80:LEU:HB2	1.61	1.34
10:J:38:GLU:OE1	15:O:29:PHE:CD2	1.78	1.34
10:J:86:CYS:SG	11:K:61:VAL:CG2	2.15	1.34
2:B:3264:ASN:CB	2:B:3306:ILE:HD11	1.56	1.34
3:C:265:LYS:HE2	3:C:356:THR:CG2	1.55	1.34
1:A:801:ILE:CG2	1:A:862:LEU:HD21	1.58	1.33
2:B:864:ASN:CB	2:B:947:LEU:CD2	1.98	1.33
3:C:2720:PRO:CB	3:C:2798:PHE:CE2	2.09	1.33
3:C:2727:ILE:CD1	3:C:2745:LYS:HD3	1.58	1.33
4:D:177:ASN:ND2	13:M:60:ASN:HB2	1.04	1.33
5:E:100:GLU:CB	5:E:105:PHE:HD2	1.39	1.33
1:A:3231:ASP:OD2	1:A:3258:PHE:CD2	1.82	1.33
2:B:3:ASP:CB	2:B:7:LYS:CB	2.03	1.33
2:B:10:PRO:HA	2:B:25:GLN:C	1.47	1.33
2:B:81:ILE:O	2:B:110:VAL:HA	1.22	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:174:GLN:CA	13:M:62:GLY:HA2	1.58	1.33
6:F:91:GLN:CG	6:F:96:THR:HG22	1.57	1.33
1:A:737:TYR:CE1	1:A:759:LEU:HD23	1.62	1.33
4:D:174:GLN:HA	13:M:62:GLY:CA	1.58	1.33
5:E:395:VAL:HG23	5:E:402:ILE:CD1	1.55	1.33
1:A:686:VAL:CG2	1:A:731:LEU:HD23	1.57	1.32
1:A:755:HIS:CE1	1:A:869:TYR:HD2	1.44	1.32
1:A:970:TYR:O	1:A:983:ALA:HB1	1.18	1.32
6:F:11:LEU:HD22	6:F:23:TYR:CZ	1.64	1.32
1:A:659:TRP:CZ2	1:A:702:LEU:HD11	1.63	1.32
2:B:970:ALA:CB	3:C:345:TRP:HZ3	1.19	1.32
1:A:40:LEU:CB	1:A:41:LEU:N	1.92	1.32
1:A:1157:GLN:HG2	1:A:1180:ARG:NH2	1.01	1.32
1:A:3235:TYR:HE2	1:A:3269:LEU:CD1	1.32	1.32
2:B:444:LEU:HD11	2:B:527:PHE:CE1	1.61	1.32
1:A:3443:LEU:CD1	1:A:3493:PHE:HZ	1.40	1.32
4:D:90:ASP:OD2	13:M:32:LYS:HG3	1.20	1.32
1:A:817:VAL:C	1:A:818:LEU:HD13	1.45	1.32
2:B:801:ILE:CD1	2:B:878:ALA:CA	2.06	1.32
1:A:1632:ASP:HB2	1:A:1892:PHE:CD1	1.62	1.31
1:A:3351:PRO:N	1:A:3351:PRO:CA	1.71	1.31
3:C:2738:ILE:HG22	3:C:2746:PRO:CD	1.60	1.31
1:A:1020:PHE:HZ	1:A:1069:TYR:CE1	1.47	1.31
1:A:3298:ILE:O	1:A:3343:HIS:CE1	1.83	1.31
2:B:3139:GLY:HA3	2:B:3433:TRP:CH2	1.44	1.31
4:D:172:GLU:OE1	12:L:55:LEU:HD12	1.23	1.31
5:E:20:PHE:CE1	14:N:89:GLN:OE1	1.83	1.31
1:A:93:VAL:CB	1:A:125:PRO:CB	2.07	1.31
1:A:3235:TYR:CZ	1:A:3269:LEU:HD13	1.65	1.31
8:H:12:LYS:HG2	8:H:80:TYR:CE2	1.64	1.31
1:A:601:PRO:CG	1:A:698:GLU:HG3	1.58	1.31
2:B:555:LEU:CD2	2:B:625:LEU:HD22	0.84	1.31
2:B:733:GLU:OE2	2:B:783:MET:HG3	1.31	1.31
2:B:801:ILE:HD13	2:B:937:PHE:CE1	1.66	1.31
2:B:3271:ASP:OD1	2:B:3272:PRO:HD2	1.24	1.31
3:C:2669:ILE:CD1	3:C:2847:ALA:HB2	1.59	1.31
1:A:601:PRO:HG2	1:A:698:GLU:CG	1.61	1.30
1:A:1126:VAL:HA	1:A:1131:SER:OG	1.29	1.30
18:R:82:ALA:C	18:R:83:ASN:CA	2.00	1.30
1:A:1051:GLN:NE2	1:A:1096:TYR:OH	1.63	1.30
2:B:744:MET:SD	2:B:772:ILE:CG1	2.19	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:208:TYR:CE1	9:I:100:ASN:HB3	1.64	1.30
8:H:65:PHE:HA	9:I:80:GLY:CA	1.61	1.30
1:A:935:VAL:CG2	1:A:944:LEU:HD22	1.61	1.30
2:B:2333:PRO:C	20:B:5601:ATP:H2	1.35	1.30
4:D:517:ILE:CD1	4:D:527:ILE:HG23	1.61	1.30
5:E:395:VAL:CG2	5:E:402:ILE:HD11	1.57	1.30
8:H:60:ILE:HG12	9:I:85:TYR:CB	1.60	1.30
14:N:85:ILE:CG2	14:N:98:ILE:CD1	2.09	1.30
2:B:957:GLN:HA	3:C:220:TRP:CH2	1.64	1.29
1:A:1273:PHE:HA	4:D:166:PHE:CZ	1.24	1.29
2:B:1488:LYS:CB	2:B:1501:VAL:CG1	2.09	1.29
2:B:2334:TYR:N	20:B:5601:ATP:C2	1.99	1.29
4:D:170:THR:CG2	13:M:66:ILE:HG12	0.82	1.29
5:E:20:PHE:CE2	15:O:80:LYS:CD	2.14	1.29
4:D:367:LEU:CG	4:D:371:THR:OG1	1.80	1.29
2:B:713:VAL:CG1	5:E:258:GLU:CG	2.09	1.29
4:D:294:GLN:HE21	4:D:297:LYS:CE	1.45	1.29
4:D:569:TYR:CE2	4:D:578:LYS:HG2	1.65	1.29
5:E:16:ASN:CB	15:O:132:GLU:CG	2.07	1.29
1:A:1487:VAL:HG23	1:A:1490:PHE:CE1	1.68	1.29
2:B:1511:VAL:CG1	2:B:1570:VAL:HG21	1.61	1.29
5:E:71:ARG:NH1	8:H:71:PHE:HZ	1.26	1.29
10:J:61:ALA:HB2	10:J:80:PHE:CZ	1.64	1.29
1:A:1638:THR:CG2	1:A:1655:GLN:HE21	1.46	1.28
2:B:501:ARG:HH12	4:D:491:GLN:CD	1.33	1.28
4:D:207:ALA:CB	9:I:24:ILE:CD1	2.08	1.28
5:E:70:ASP:OD2	9:I:64:LYS:HE3	1.33	1.28
1:A:1638:THR:HG21	1:A:1655:GLN:NE2	1.43	1.28
3:C:2734:PHE:CZ	3:C:2767:LYS:HD2	1.67	1.28
4:D:163:ARG:NH2	12:L:71:ASP:O	1.63	1.28
4:D:196:CYS:SG	9:I:86:ASP:OD1	1.91	1.28
5:E:259:ASN:ND2	5:E:299:GLY:HA3	1.46	1.28
1:A:3232:ILE:CD1	1:A:3316:TRP:CZ3	2.05	1.28
2:B:500:GLU:OE1	2:B:535:ILE:CD1	1.80	1.28
2:B:1456:PHE:CD1	2:B:1467:PHE:HE1	1.52	1.28
10:J:32:CYS:CB	10:J:96:ILE:HG12	1.60	1.28
1:A:409:LEU:CB	1:A:464:PHE:CB	2.09	1.28
1:A:634:ILE:CG2	1:A:638:TYR:CZ	2.16	1.28
2:B:1492:LYS:CE	2:B:3606:GLN:OE1	1.81	1.28
2:B:1467:PHE:CE2	2:B:1560:MET:SD	2.26	1.28
4:D:174:GLN:OE1	12:L:49:LEU:HD12	1.32	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:973:THR:OG1	3:C:344:ASN:HB2	1.17	1.27
2:B:1238:LYS:CE	2:B:1308:LEU:CA	2.12	1.27
3:C:535:GLU:CB	3:C:701:ASN:CB	2.12	1.27
3:C:2738:ILE:CG2	3:C:2746:PRO:HD3	1.62	1.27
2:B:957:GLN:CG	3:C:164:HIS:HE1	1.31	1.27
2:B:963:PHE:CE2	3:C:104:SER:N	1.89	1.27
2:B:2333:PRO:C	20:B:5601:ATP:C2	2.08	1.27
5:E:46:ASN:O	12:L:88:PHE:CD1	1.86	1.27
1:A:670:LEU:CB	1:A:692:ILE:HD11	1.65	1.27
1:A:1020:PHE:HA	1:A:1023:PHE:CE2	1.68	1.27
1:A:3106:LYS:CG	1:A:3443:LEU:CD2	2.09	1.27
1:A:3290:LEU:HD22	1:A:3335:TRP:CE2	1.69	1.27
2:B:467:VAL:HG12	2:B:471:THR:OG1	1.29	1.27
2:B:1004:SER:OG	2:B:1094:TRP:HH2	1.17	1.27
2:B:1467:PHE:HB3	2:B:1470:LEU:CD1	1.62	1.27
4:D:552:PRO:CD	4:D:595:PHE:CD2	2.17	1.27
2:B:58:SER:CA	2:B:83:LYS:CB	2.09	1.27
3:C:2669:ILE:CD1	3:C:2847:ALA:CB	2.10	1.27
9:I:26:ASN:HB2	9:I:98:PHE:CE2	1.68	1.27
1:A:634:ILE:HG22	1:A:638:TYR:CZ	1.69	1.26
1:A:3347:LYS:O	1:A:3351:PRO:HD2	1.29	1.26
2:B:1456:PHE:CD1	2:B:1467:PHE:CE1	2.22	1.26
1:A:891:PHE:CE1	1:A:972:TRP:HE3	1.34	1.26
4:D:255:ASN:ND2	7:G:134:GLU:OE1	1.67	1.26
4:D:367:LEU:CD1	4:D:371:THR:OG1	1.82	1.26
1:A:853:VAL:CB	5:E:206:ASN:ND2	1.97	1.26
2:B:864:ASN:HB3	2:B:947:LEU:CB	1.64	1.26
2:B:1474:MET:SD	2:B:1515:VAL:CG1	2.23	1.26
14:N:85:ILE:CG2	14:N:98:ILE:HD11	1.63	1.26
1:A:686:VAL:HG21	1:A:731:LEU:CD2	1.66	1.26
1:A:723:PHE:CE1	1:A:772:TRP:NE1	2.01	1.26
2:B:57:ASN:HA	2:B:70:LYS:O	1.34	1.26
3:C:143:PRO:HD3	3:C:187:TRP:CD1	1.71	1.26
4:D:75:LEU:CB	15:O:102:LEU:HD11	1.65	1.26
4:D:107:VAL:HG23	15:O:97:ILE:O	1.29	1.26
6:F:50:ALA:CA	8:H:83:GLN:HG3	1.63	1.26
8:H:51:SER:CB	18:R:32:LYS:CB	2.14	1.26
1:A:3235:TYR:OH	1:A:3269:LEU:HD12	1.28	1.26
1:A:3347:LYS:O	1:A:3351:PRO:CD	1.83	1.26
2:B:429:LEU:HG	2:B:489:PHE:CZ	1.71	1.26
2:B:798:ASN:CB	2:B:874:ALA:HB1	1.66	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:60:LEU:CD2	3:C:69:TRP:CZ3	2.18	1.26
4:D:170:THR:HG21	13:M:66:ILE:CG1	1.42	1.26
4:D:398:PRO:CD	4:D:419:SER:HB2	1.66	1.26
1:A:870:PRO:O	1:A:871:LEU:HD13	1.35	1.25
2:B:3238:HIS:CE1	2:B:3335:LYS:HG3	1.69	1.25
4:D:90:ASP:CG	13:M:32:LYS:HG3	1.55	1.25
8:H:52:ARG:HA	18:R:63:ASN:CB	1.65	1.25
3:C:265:LYS:CE	3:C:356:THR:HG22	1.65	1.25
4:D:251:MET:CB	7:G:136:MET:CE	1.81	1.25
5:E:61:VAL:CG2	10:J:106:LEU:CD2	2.14	1.25
14:N:85:ILE:CB	14:N:98:ILE:HD11	1.65	1.25
1:A:3306:LEU:O	1:A:3306:LEU:HD13	1.10	1.25
1:A:688:PHE:HE1	1:A:693:MET:CG	1.49	1.25
1:A:817:VAL:O	1:A:818:LEU:CD1	1.82	1.25
1:A:1513:LYS:HE2	1:A:1578:ASN:ND2	1.51	1.25
2:B:1511:VAL:CB	2:B:1570:VAL:CG2	2.12	1.25
4:D:552:PRO:HD2	4:D:595:PHE:CE2	1.70	1.25
5:E:77:GLU:OE2	5:E:87:ASN:ND2	1.67	1.25
14:N:89:GLN:NE2	14:N:94:ASP:OD2	1.66	1.25
1:A:3257:VAL:HG11	1:A:3266:VAL:CB	1.65	1.25
3:C:2734:PHE:CE2	3:C:2767:LYS:HG3	1.72	1.25
5:E:20:PHE:HE1	14:N:89:GLN:OE1	0.95	1.25
1:A:577:ALA:CB	1:A:636:ARG:HD3	1.67	1.25
1:A:1114:GLN:O	1:A:1118:LEU:CD2	1.83	1.25
2:B:444:LEU:HD23	2:B:526:ASN:ND2	1.48	1.25
2:B:1234:GLU:OE1	2:B:1305:LEU:HA	1.33	1.25
2:B:1238:LYS:HE3	2:B:1308:LEU:CA	1.65	1.25
3:C:2743:ASN:ND2	3:C:2785:VAL:HG12	1.52	1.24
6:F:56:TRP:NE1	6:F:91:GLN:NE2	1.82	1.24
1:A:971:ASN:HA	1:A:985:PHE:CE2	1.72	1.24
1:A:1143:ARG:NE	4:D:169:ASN:ND2	1.85	1.24
3:C:2720:PRO:CB	3:C:2798:PHE:HE2	1.45	1.24
4:D:266:TYR:OH	5:E:121:TYR:HB3	1.29	1.24
4:D:414:PHE:HD2	4:D:426:TRP:CD1	1.55	1.24
6:F:81:THR:HG21	7:G:114:VAL:CG2	1.67	1.24
10:J:36:ILE:HG12	10:J:72:PHE:CE1	1.72	1.24
2:B:1450:TRP:O	2:B:1454:GLN:HG3	1.09	1.24
3:C:2740:ILE:CG1	3:C:2744:LYS:HB3	1.65	1.24
4:D:174:GLN:CB	13:M:62:GLY:HA3	1.67	1.24
2:B:794:LEU:HA	2:B:797:PHE:CD2	1.71	1.24
2:B:3139:GLY:CA	2:B:3433:TRP:CH2	2.19	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R:97:ALA:CB	18:R:101:ASN:O	1.84	1.24
2:B:429:LEU:CD1	2:B:489:PHE:CD2	2.20	1.24
10:J:74:PRO:HG3	12:L:102:ARG:CD	1.65	1.24
14:N:75:GLN:HB3	15:O:93:GLN:CG	1.65	1.24
3:C:2793:LEU:C	3:C:2796:PRO:CD	2.05	1.23
1:A:1632:ASP:HB2	1:A:1892:PHE:CE1	1.71	1.23
2:B:467:VAL:CG1	2:B:471:THR:OG1	1.87	1.23
2:B:794:LEU:HA	2:B:797:PHE:CE2	1.72	1.23
2:B:871:ILE:CG1	2:B:944:ILE:HD11	1.68	1.23
2:B:1109:THR:O	2:B:1113:LEU:HG	1.19	1.23
2:B:1117:ILE:CG1	2:B:1190:ILE:HD11	1.67	1.23
2:B:1492:LYS:HE3	2:B:3606:GLN:CD	1.58	1.23
5:E:46:ASN:O	12:L:88:PHE:CG	1.89	1.23
5:E:99:ILE:CD1	6:F:31:ILE:HD11	1.69	1.23
10:J:61:ALA:CB	10:J:80:PHE:CE2	2.20	1.23
2:B:864:ASN:HB3	2:B:947:LEU:CG	1.49	1.23
2:B:970:ALA:HB2	3:C:345:TRP:CZ3	1.50	1.23
2:B:3153:LEU:CD1	2:B:3707:LEU:CD1	1.98	1.23
3:C:2726:THR:CA	3:C:2729:LEU:CD1	2.04	1.23
3:C:2727:ILE:O	3:C:2730:LEU:CD1	1.87	1.23
4:D:175:THR:OG1	13:M:61:PHE:N	1.69	1.23
5:E:261:HIS:CE1	5:E:283:SER:HG	1.57	1.23
14:N:72:ILE:CD1	15:O:97:ILE:HD13	1.68	1.23
1:A:614:PHE:CD1	1:A:644:LEU:HD22	1.72	1.23
1:A:728:ASN:ND2	4:D:396:THR:HG22	1.51	1.23
2:B:2544:LYS:N	19:B:5501:ADP:O1A	1.72	1.23
2:B:2666:ARG:HD2	20:B:5601:ATP:O1G	1.12	1.23
4:D:80:PRO:HG3	15:O:103:TRP:NE1	1.49	1.23
4:D:585:VAL:HG12	4:D:588:PRO:CD	1.69	1.23
5:E:23:THR:CG2	14:N:88:TYR:HD1	1.52	1.23
1:A:403:ALA:CB	1:A:471:ASN:CB	2.17	1.23
1:A:997:LYS:CE	18:R:149:LEU:HA	1.62	1.23
1:A:3255:GLU:OE1	1:A:3269:LEU:O	1.54	1.23
1:A:3443:LEU:HD12	1:A:3493:PHE:CZ	1.72	1.23
2:B:55:GLN:O	2:B:85:LYS:HA	1.32	1.23
2:B:903:ARG:HB3	2:B:914:ASP:CG	1.57	1.22
7:G:119:PRO:HG2	9:I:12:ILE:CG2	1.69	1.22
1:A:1012:LYS:HZ1	1:A:1072:GLY:N	1.21	1.22
1:A:3257:VAL:HG11	1:A:3266:VAL:CG1	1.69	1.22
3:C:2727:ILE:O	3:C:2730:LEU:HD11	1.33	1.22
3:C:2727:ILE:HD11	3:C:2745:LYS:CG	1.66	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:634:ILE:HG22	1:A:638:TYR:CE2	1.74	1.22
5:E:48:ILE:N	12:L:88:PHE:HE2	1.36	1.22
1:A:3235:TYR:CZ	1:A:3269:LEU:CD1	2.17	1.22
2:B:3118:TYR:CE2	2:B:3452:LEU:CA	2.05	1.22
4:D:172:GLU:HA	13:M:64:HIS:CA	1.70	1.22
4:D:395:HIS:NE2	4:D:399:VAL:HG12	1.35	1.22
5:E:20:PHE:CE2	15:O:80:LYS:CG	2.12	1.22
10:J:26:VAL:CG2	10:J:97:TYR:O	1.87	1.22
14:N:75:GLN:CB	15:O:93:GLN:HG3	1.70	1.22
1:A:993:LYS:HE2	18:R:131:ILE:CB	1.70	1.22
1:A:1418:ASP:OD1	1:A:3604:LYS:NZ	1.71	1.22
2:B:444:LEU:CA	5:E:515:LYS:CG	1.97	1.22
2:B:733:GLU:OE2	2:B:783:MET:CG	1.88	1.22
2:B:1110:GLN:O	2:B:1114:LEU:HG	1.04	1.22
3:C:99:GLY:HA3	3:C:149:HIS:CE1	1.75	1.22
6:F:14:LEU:CD2	6:F:23:TYR:CB	2.16	1.22
4:D:208:TYR:CE1	9:I:100:ASN:CB	2.21	1.21
5:E:61:VAL:HG22	10:J:106:LEU:CD2	1.68	1.21
1:A:1030:SER:O	1:A:1092:TRP:HH2	0.87	1.21
2:B:467:VAL:O	2:B:471:THR:OG1	1.58	1.21
2:B:801:ILE:HD13	2:B:937:PHE:CD1	1.73	1.21
2:B:903:ARG:HB3	2:B:914:ASP:OD2	1.03	1.21
2:B:1117:ILE:HG12	2:B:1190:ILE:CD1	1.70	1.21
2:B:3300:GLU:OE2	2:B:3354:LYS:CE	1.87	1.21
3:C:196:PRO:CA	3:C:239:TRP:CZ2	2.04	1.21
5:E:310:LEU:HG	5:E:358:ARG:NH2	1.35	1.21
1:A:398:TRP:CB	1:A:490:LYS:CB	2.18	1.21
1:A:1126:VAL:HB	1:A:1201:TYR:OH	1.09	1.21
2:B:429:LEU:HD12	2:B:489:PHE:CD2	1.75	1.21
2:B:946:ARG:HA	2:B:955:PHE:CE2	1.75	1.21
4:D:252:VAL:HG13	7:G:149:GLN:NE2	1.54	1.21
2:B:443:GLU:OE1	5:E:514:ARG:NH1	1.74	1.21
1:A:8:LYS:CB	1:A:109:SER:HA	1.70	1.21
1:A:813:VAL:O	1:A:816:VAL:HG12	1.08	1.21
1:A:1513:LYS:CE	1:A:1578:ASN:ND2	2.02	1.21
2:B:58:SER:C	2:B:68:SER:O	1.78	1.21
2:B:1223:LYS:HZ3	2:B:1277:ARG:CB	1.51	1.21
3:C:165:GLY:O	3:C:174:PHE:CE2	1.92	1.21
3:C:2745:LYS:CE	3:C:2749:VAL:HG11	1.70	1.21
5:E:310:LEU:CD2	5:E:358:ARG:NH2	2.04	1.21
1:A:1051:GLN:CD	1:A:1096:TYR:CZ	2.15	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:90:ASP:OD1	13:M:32:LYS:HA	1.41	1.20
1:A:580:LEU:HD21	1:A:640:SER:CA	1.71	1.20
1:A:3303:ILE:HD11	1:A:3340:TYR:CE2	1.76	1.20
2:B:791:HIS:CE1	2:B:866:ILE:HD13	1.75	1.20
3:C:261:ILE:CG1	3:C:360:PRO:HB3	1.70	1.20
3:C:2723:PHE:CE1	3:C:2749:VAL:CG1	2.24	1.20
14:N:72:ILE:HG23	15:O:97:ILE:CD1	1.65	1.20
2:B:1058:LYS:HE2	2:B:1166:GLU:O	1.04	1.20
4:D:543:MET:CE	4:D:563:MET:HE2	1.71	1.20
1:A:1126:VAL:CB	1:A:1201:TYR:OH	1.88	1.20
4:D:212:ILE:CD1	9:I:19:MET:HE3	1.70	1.20
2:B:3228:GLU:CG	2:B:3346:PHE:CE1	2.23	1.20
5:E:16:ASN:HB2	15:O:132:GLU:CG	1.71	1.20
3:C:2711:SER:CB	3:C:2751:TRP:CZ2	2.24	1.19
3:C:2734:PHE:CE2	3:C:2767:LYS:CD	2.26	1.19
1:A:576:TYR:CD1	1:A:620:PRO:O	1.92	1.19
1:A:801:ILE:CB	1:A:862:LEU:HD21	1.70	1.19
2:B:3178:VAL:HG11	2:B:3395:LEU:CD2	1.71	1.19
6:F:14:LEU:HD23	6:F:23:TYR:CG	1.76	1.19
1:A:935:VAL:HG22	1:A:944:LEU:HD21	1.22	1.19
1:A:3103:TYR:HE2	1:A:3444:VAL:CG2	1.56	1.19
1:A:3443:LEU:CD1	1:A:3493:PHE:CZ	2.23	1.19
2:B:1058:LYS:CB	2:B:1166:GLU:HB3	1.73	1.19
5:E:70:ASP:OD1	8:H:70:THR:OG1	1.56	1.19
16:P:23:TYR:CB	16:P:93:ILE:CB	2.21	1.19
2:B:1447:ILE:HG22	2:B:1504:TRP:CE2	1.75	1.19
5:E:112:LEU:HD21	6:F:97:MET:CG	1.72	1.19
1:A:1132:LEU:HB3	1:A:1272:LEU:CD1	1.73	1.19
2:B:10:PRO:CB	2:B:25:GLN:CA	2.07	1.19
2:B:60:ASN:CA	2:B:81:ILE:HA	1.73	1.19
2:B:1474:MET:CE	2:B:1515:VAL:CG1	2.19	1.19
4:D:172:GLU:CA	13:M:64:HIS:CB	2.20	1.19
4:D:512:HIS:CD2	4:D:513:PRO:HD2	1.76	1.19
5:E:16:ASN:HB2	15:O:132:GLU:CB	1.73	1.19
1:A:1445:PHE:CD2	1:A:1564:CYS:CB	2.26	1.18
4:D:294:GLN:NE2	4:D:297:LYS:CE	2.01	1.18
14:N:72:ILE:CG2	15:O:97:ILE:CG1	2.19	1.18
1:A:700:LYS:HE3	1:A:720:GLU:OE1	1.38	1.18
2:B:518:TYR:CG	5:E:404:ARG:NH1	2.09	1.18
2:B:3373:GLU:O	2:B:3377:VAL:HG13	1.42	1.18
4:D:398:PRO:HD2	4:D:419:SER:CB	1.71	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:569:TYR:CZ	4:D:578:LYS:CG	2.25	1.18
6:F:81:THR:CG2	7:G:114:VAL:HG21	1.71	1.18
8:H:54:HIS:CE1	18:R:62:LYS:CA	2.16	1.18
8:H:66:GLY:HA3	9:I:56:ILE:HG23	1.20	1.18
1:A:3251:ILE:HG13	17:Q:82:ASN:CA	1.72	1.18
2:B:467:VAL:O	2:B:471:THR:CB	1.92	1.18
2:B:467:VAL:O	2:B:471:THR:N	1.75	1.18
2:B:871:ILE:HG13	2:B:944:ILE:CD1	1.72	1.18
2:B:979:ILE:O	2:B:983:CYS:SG	2.01	1.18
4:D:172:GLU:CB	13:M:64:HIS:CB	2.09	1.18
1:A:747:ILE:HD11	1:A:889:TYR:CZ	1.79	1.18
1:A:972:TRP:CE3	1:A:985:PHE:HZ	1.61	1.18
1:A:1133:GLY:HA3	1:A:1268:ARG:C	1.62	1.18
2:B:436:PHE:CD1	2:B:499:LEU:HD21	1.77	1.18
2:B:575:ASN:N	5:E:481:GLN:HE22	1.39	1.18
2:B:1110:GLN:O	2:B:1114:LEU:CG	1.92	1.18
3:C:2738:ILE:HD12	3:C:2740:ILE:O	1.40	1.18
4:D:569:TYR:OH	4:D:578:LYS:HD3	1.40	1.18
1:A:3446:ASN:CG	1:A:3488:LEU:HD13	1.65	1.18
1:A:659:TRP:CZ2	1:A:702:LEU:CD1	2.25	1.17
1:A:1513:LYS:HE2	1:A:1578:ASN:CG	1.64	1.17
2:B:111:VAL:O	2:B:118:LEU:CB	1.91	1.17
2:B:349:ASN:CB	2:B:416:LEU:CD2	2.21	1.17
2:B:1127:ASN:HB3	2:B:1128:PRO:CD	1.73	1.17
5:E:16:ASN:CB	15:O:132:GLU:HA	1.72	1.17
1:A:402:PRO:CB	1:A:485:THR:CB	2.21	1.17
1:A:906:LEU:CG	1:A:998:VAL:HG11	1.75	1.17
1:A:1012:LYS:HD3	1:A:1071:ILE:HD12	1.22	1.17
2:B:445:GLY:HA2	5:E:511:ARG:NH1	1.59	1.17
2:B:1607:PRO:CB	2:B:1946:SER:HB3	1.74	1.17
3:C:2734:PHE:HE2	3:C:2767:LYS:CG	1.57	1.17
3:C:2745:LYS:HE3	3:C:2749:VAL:CG1	1.73	1.17
1:A:3230:LEU:O	1:A:3233:ILE:HG22	1.42	1.17
1:A:3251:ILE:CG1	17:Q:82:ASN:HA	1.72	1.17
1:A:3268:PHE:CD1	17:Q:35:ILE:CB	2.27	1.17
2:B:426:ILE:O	2:B:430:THR:HG23	1.42	1.17
2:B:679:ARG:O	2:B:683:GLU:HG3	1.41	1.17
2:B:1123:GLY:HA2	2:B:1197:PHE:CZ	1.77	1.17
5:E:119:CYS:HB3	6:F:88:ILE:HD13	1.22	1.17
10:J:95:PHE:CZ	10:J:106:LEU:HD11	1.80	1.17
18:R:97:ALA:HB1	18:R:101:ASN:O	0.99	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:801:ILE:HG21	1:A:862:LEU:CD2	1.73	1.17
2:B:58:SER:O	2:B:68:SER:C	1.82	1.17
2:B:3228:GLU:CG	2:B:3346:PHE:HE1	1.55	1.17
5:E:48:ILE:N	12:L:88:PHE:CE2	2.12	1.17
2:B:444:LEU:C	5:E:515:LYS:HG3	1.66	1.17
2:B:3300:GLU:OE2	2:B:3354:LYS:NZ	1.76	1.17
5:E:46:ASN:N	12:L:88:PHE:O	1.75	1.17
14:N:72:ILE:HD13	15:O:97:ILE:HD13	1.26	1.17
1:A:906:LEU:HD13	1:A:998:VAL:CB	1.75	1.16
1:A:1157:GLN:CG	1:A:1180:ARG:NH2	1.96	1.16
1:A:1449:ILE:HA	1:A:1459:LEU:CD2	1.73	1.16
2:B:3:ASP:CA	2:B:7:LYS:CB	2.23	1.16
2:B:1559:MET:CE	2:B:1577:ARG:HH21	1.58	1.16
1:A:1012:LYS:HB2	1:A:1071:ILE:CD1	1.75	1.16
1:A:3248:LEU:HB2	17:Q:104:TYR:CE1	1.80	1.16
2:B:718:ILE:HD11	2:B:773:VAL:HB	1.26	1.16
4:D:236:MET:CB	7:G:143:PHE:CE2	2.28	1.16
1:A:2839:LEU:CD1	19:A:4901:ADP:C6	2.15	1.16
1:A:3235:TYR:OH	1:A:3269:LEU:CD1	1.93	1.16
3:C:2694:ALA:HB2	3:C:2823:TYR:CB	1.75	1.16
3:C:2726:THR:HA	3:C:2729:LEU:CG	1.75	1.16
1:A:1051:GLN:OE1	1:A:1096:TYR:CZ	1.98	1.16
2:B:60:ASN:HA	2:B:81:ILE:CA	1.73	1.16
2:B:864:ASN:HA	2:B:947:LEU:CG	1.76	1.16
8:H:46:LYS:HE2	9:I:86:ASP:HB2	1.24	1.16
10:J:21:PHE:HZ	10:J:37:LEU:HD22	0.99	1.16
1:A:3252:GLN:O	1:A:3255:GLU:HG2	1.43	1.16
1:A:3349:VAL:O	1:A:3353:ARG:CB	1.93	1.16
2:B:433:ILE:CG2	2:B:463:PHE:HZ	1.58	1.16
2:B:436:PHE:CE1	2:B:499:LEU:HD21	1.55	1.16
2:B:3150:VAL:CG1	2:B:3423:VAL:HG23	1.75	1.16
2:B:3261:ILE:O	2:B:3306:ILE:HG21	1.46	1.16
3:C:2745:LYS:HD2	3:C:2749:VAL:HG22	1.23	1.16
3:C:2803:MET:HB3	3:C:2814:CYS:SG	1.75	1.16
4:D:543:MET:HE3	4:D:563:MET:CE	1.75	1.16
1:A:580:LEU:HD21	1:A:640:SER:CB	1.76	1.15
2:B:3302:ILE:HG22	2:B:3303:GLU:H	1.09	1.15
3:C:2727:ILE:HD13	3:C:2745:LYS:CD	1.73	1.15
4:D:212:ILE:CD1	9:I:19:MET:CE	2.23	1.15
8:H:43:THR:HA	9:I:86:ASP:OD2	1.42	1.15
1:A:21:LEU:O	1:A:25:ASP:CB	1.94	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1143:ARG:NE	4:D:169:ASN:HD21	1.43	1.15
1:A:3257:VAL:HG21	1:A:3266:VAL:HG11	1.20	1.15
2:B:444:LEU:CD2	5:E:515:LYS:HE2	1.76	1.15
5:E:57:SER:N	10:J:90:HIS:O	1.77	1.15
5:E:394:TRP:CD1	5:E:401:PRO:HA	1.80	1.15
7:G:119:PRO:HD2	9:I:12:ILE:HD12	1.18	1.15
10:J:38:GLU:OE1	15:O:29:PHE:CE2	1.96	1.15
1:A:755:HIS:ND1	1:A:869:TYR:CD2	2.15	1.15
1:A:3442:LYS:HB3	1:A:3485:THR:HG23	1.21	1.15
2:B:1456:PHE:CE1	2:B:1563:VAL:CG1	2.22	1.15
2:B:3140:LEU:HB2	2:B:3433:TRP:HE3	0.98	1.15
4:D:107:VAL:CG2	15:O:97:ILE:O	1.95	1.15
4:D:517:ILE:HG12	4:D:550:TRP:CZ2	1.82	1.15
1:A:3236:ILE:HG23	1:A:3333:LEU:HD23	1.17	1.15
2:B:349:ASN:HA	2:B:416:LEU:HD21	1.16	1.15
2:B:660:LEU:HG	2:B:755:ILE:HD13	1.24	1.15
2:B:1485:MET:CB	2:B:1505:ARG:CZ	2.23	1.15
4:D:170:THR:HG22	13:M:66:ILE:CA	1.77	1.15
14:N:25:PHE:HE1	14:N:103:ILE:HG23	1.01	1.15
1:A:600:MET:CE	1:A:697:ARG:HH11	1.60	1.15
1:A:600:MET:HE1	1:A:697:ARG:HH11	1.11	1.15
4:D:68:GLU:CG	5:E:12:LYS:HA	1.75	1.15
4:D:319:TYR:O	4:D:320:ASP:OD1	1.63	1.15
5:E:71:ARG:NH1	8:H:71:PHE:CZ	2.04	1.15
5:E:261:HIS:CE1	5:E:283:SER:OG	1.99	1.15
8:H:66:GLY:HA3	9:I:56:ILE:HG22	1.29	1.15
1:A:613:LEU:HD21	4:D:523:TRP:CH2	1.82	1.14
1:A:813:VAL:O	1:A:816:VAL:CG1	1.95	1.14
2:B:682:LYS:CE	5:E:186:PHE:CE1	2.30	1.14
5:E:384:LEU:HD23	5:E:417:TRP:CE2	1.82	1.14
1:A:155:GLY:CA	2:B:167:GLN:O	1.95	1.14
3:C:2738:ILE:CD1	3:C:2740:ILE:O	1.95	1.14
5:E:310:LEU:CD1	5:E:358:ARG:NH2	2.09	1.14
6:F:11:LEU:HB3	6:F:23:TYR:OH	1.46	1.14
10:J:21:PHE:CZ	10:J:37:LEU:HD22	1.82	1.14
1:A:14:LYS:CB	2:B:19:SER:O	1.94	1.14
1:A:935:VAL:CG2	1:A:944:LEU:CD2	2.16	1.14
1:A:1133:GLY:HA3	1:A:1268:ARG:O	0.98	1.14
2:B:3262:LEU:O	2:B:3297:PHE:HZ	1.29	1.14
14:N:25:PHE:CZ	14:N:103:ILE:HD13	1.82	1.14
14:N:72:ILE:HG12	15:O:97:ILE:CG2	1.77	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:871:LEU:HD23	1:A:875:VAL:CG1	1.76	1.14
1:A:1633:ALA:O	1:A:1838:PHE:HE2	1.30	1.14
2:B:409:SER:CA	2:B:413:PHE:HD1	1.60	1.14
2:B:1559:MET:HE3	2:B:1577:ARG:HH21	1.05	1.14
3:C:2734:PHE:CE2	3:C:2767:LYS:CG	2.30	1.14
4:D:172:GLU:HG3	12:L:51:LYS:HE2	1.29	1.14
4:D:174:GLN:HB2	13:M:62:GLY:HA3	1.16	1.14
11:K:77:PHE:CZ	11:K:88:LEU:HD11	1.82	1.14
16:P:11:THR:O	16:P:67:LEU:CA	1.94	1.14
1:A:580:LEU:CD2	1:A:640:SER:CB	2.25	1.14
2:B:1511:VAL:HA	2:B:1570:VAL:CG1	1.77	1.14
2:B:3301:ASN:ND2	2:B:3351:LYS:NZ	1.96	1.14
4:D:517:ILE:HG12	4:D:550:TRP:CE2	1.83	1.14
5:E:16:ASN:CB	15:O:132:GLU:CA	2.26	1.14
1:A:1504:VAL:HG22	1:A:1565:CYS:CB	1.79	1.13
2:B:87:LYS:O	2:B:103:ASN:CB	1.96	1.13
2:B:501:ARG:NH1	4:D:491:GLN:CD	2.01	1.13
2:B:956:LEU:HD12	2:B:959:ILE:HD11	1.17	1.13
3:C:176:ASP:OD2	3:C:189:ARG:NH1	1.81	1.13
9:I:26:ASN:HB2	9:I:98:PHE:CZ	1.83	1.13
2:B:532:THR:HG22	2:B:536:ILE:HG13	1.27	1.13
2:B:660:LEU:HB2	2:B:755:ILE:HD12	1.30	1.13
2:B:1456:PHE:CE2	2:B:1569:VAL:HG13	1.83	1.13
1:A:936:GLN:HA	1:A:1081:ILE:HG13	1.20	1.13
1:A:1009:THR:CB	1:A:1074:MET:SD	2.35	1.13
1:A:3273:TYR:OH	1:A:3277:GLY:CA	1.97	1.13
2:B:904:LEU:HD11	2:B:911:ILE:CG2	1.79	1.13
2:B:1607:PRO:CB	2:B:1946:SER:CB	2.26	1.13
3:C:2727:ILE:CD1	3:C:2745:LYS:CD	2.24	1.13
4:D:107:VAL:HG23	15:O:97:ILE:C	1.69	1.13
4:D:595:PHE:HD1	4:D:602:LEU:HD21	1.12	1.13
8:H:46:LYS:NZ	9:I:86:ASP:O	1.79	1.13
8:H:51:SER:O	18:R:63:ASN:HA	1.42	1.13
8:H:60:ILE:HG12	9:I:85:TYR:HB2	1.29	1.13
10:J:48:LEU:CD1	10:J:100:ILE:CD1	2.25	1.13
1:A:817:VAL:C	1:A:818:LEU:CD1	2.14	1.13
1:A:1393:TYR:O	1:A:1397:ASP:CB	1.97	1.13
5:E:20:PHE:CG	15:O:80:LYS:HE3	1.84	1.13
5:E:164:VAL:CG2	5:E:181:TYR:CE1	2.30	1.13
8:H:51:SER:C	18:R:63:ASN:HA	1.66	1.13
1:A:601:PRO:HB2	1:A:698:GLU:OE1	1.48	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:891:PHE:CE1	1:A:972:TRP:CZ3	2.38	1.12
1:A:3446:ASN:ND2	1:A:3488:LEU:CD1	2.11	1.12
3:C:2690:LEU:CB	3:C:2826:VAL:HG21	1.76	1.12
5:E:117:GLU:HG3	6:F:17:LEU:HD13	1.30	1.12
11:K:77:PHE:HD1	11:K:90:TYR:HB3	1.07	1.12
14:N:85:ILE:HG21	14:N:98:ILE:CD1	1.74	1.13
2:B:3238:HIS:ND1	2:B:3335:LYS:HG3	1.64	1.12
1:A:1449:ILE:HA	1:A:1459:LEU:HD23	1.20	1.12
2:B:533:ARG:HB3	2:B:534:PRO:CD	1.79	1.12
3:C:2701:ILE:CD1	3:C:2704:LYS:CE	2.19	1.12
4:D:360:ALA:HB3	5:E:133:PHE:CZ	1.83	1.12
5:E:266:THR:HG21	5:E:320:THR:HA	1.18	1.12
2:B:531:LEU:CD2	2:B:540:LEU:HD11	1.79	1.12
2:B:555:LEU:CG	2:B:625:LEU:HD22	1.78	1.12
2:B:762:ILE:CG2	2:B:766:ILE:HG13	1.79	1.12
2:B:1119:LYS:HB3	2:B:1138:LYS:NZ	1.64	1.12
3:C:2673:VAL:O	3:C:2841:THR:HG22	1.49	1.12
3:C:2784:ASN:O	3:C:2787:ILE:HG22	1.47	1.12
4:D:92:TYR:CG	13:M:29:LYS:HB3	1.82	1.12
4:D:238:SER:C	4:D:239:THR:N	2.02	1.12
4:D:398:PRO:CD	4:D:419:SER:CB	2.26	1.12
5:E:99:ILE:HG21	6:F:33:LEU:HD11	1.30	1.12
1:A:155:GLY:CA	2:B:168:ILE:CA	2.28	1.12
1:A:899:LEU:HD13	1:A:992:ASP:OD2	1.49	1.12
1:A:1504:VAL:HG22	1:A:1565:CYS:HB3	1.26	1.12
2:B:409:SER:HB3	2:B:413:PHE:CD1	1.71	1.12
2:B:713:VAL:HG11	5:E:258:GLU:CG	1.76	1.12
2:B:871:ILE:HG13	2:B:944:ILE:HD11	1.20	1.12
3:C:60:LEU:HD21	3:C:69:TRP:CH2	1.82	1.12
3:C:1983:THR:HB	19:C:4702:ADP:HN62	1.14	1.12
4:D:105:MET:HE1	14:N:47:THR:C	1.68	1.12
4:D:114:ASP:OD1	5:E:43:ARG:CZ	1.96	1.12
1:A:807:GLU:HG2	1:A:811:LYS:HE3	1.16	1.12
1:A:1623:ILE:HD11	1:A:1680:ILE:HD13	1.32	1.12
2:B:801:ILE:HD12	2:B:878:ALA:C	1.68	1.12
2:B:1456:PHE:HZ	2:B:1563:VAL:HG13	1.05	1.12
1:A:616:LYS:O	1:A:620:PRO:HD2	1.45	1.11
2:B:713:VAL:HG12	5:E:258:GLU:CG	1.74	1.11
2:B:1612:LEU:HD11	2:B:1637:CYS:SG	1.89	1.11
3:C:2727:ILE:HD11	3:C:2745:LYS:HG2	1.22	1.11
4:D:517:ILE:CG1	4:D:550:TRP:CZ2	2.33	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:595:PHE:CD1	4:D:602:LEU:HD21	1.84	1.11
8:H:64:ASN:HB2	9:I:81:GLU:HB3	1.14	1.11
10:J:32:CYS:HB2	10:J:96:ILE:HG12	1.28	1.11
14:N:72:ILE:CG2	15:O:97:ILE:HG12	1.78	1.11
3:C:2666:CYS:HB2	3:C:2848:THR:HA	1.26	1.11
3:C:2709:ALA:CA	3:C:2758:MET:SD	2.37	1.11
4:D:207:ALA:HB1	9:I:24:ILE:CD1	1.76	1.11
5:E:20:PHE:HA	14:N:90:ASP:OD1	1.51	1.11
6:F:56:TRP:NE1	6:F:91:GLN:CD	2.03	1.11
6:F:56:TRP:NE1	6:F:91:GLN:OE1	1.81	1.11
12:L:77:ILE:CG1	13:M:65:ILE:HD11	1.80	1.11
1:A:944:LEU:HD11	1:A:1017:LEU:HD11	1.21	1.11
1:A:1132:LEU:O	1:A:1272:LEU:HD11	1.47	1.11
5:E:23:THR:CG2	14:N:88:TYR:CD1	2.32	1.11
8:H:65:PHE:HA	9:I:80:GLY:HA2	1.18	1.11
1:A:1051:GLN:CD	1:A:1096:TYR:OH	1.87	1.11
1:A:3257:VAL:CG1	1:A:3266:VAL:HA	1.80	1.11
1:A:3335:TRP:CZ3	1:A:3339:ILE:HD12	1.85	1.11
4:D:115:TYR:OH	14:N:78:HIS:NE2	1.82	1.11
10:J:34:ASP:CB	15:O:31:PRO:HG3	1.80	1.11
16:P:75:VAL:CB	16:P:89:LYS:CB	2.28	1.11
1:A:3223:LEU:HD11	1:A:3332:ILE:HG12	1.27	1.11
2:B:436:PHE:CE1	2:B:499:LEU:HD22	1.72	1.11
2:B:660:LEU:HB2	2:B:755:ILE:CD1	1.78	1.11
2:B:725:ILE:HD11	2:B:777:PHE:HA	1.11	1.11
2:B:1485:MET:CB	2:B:1505:ARG:CD	2.28	1.11
1:A:402:PRO:CB	1:A:467:ILE:O	1.97	1.10
1:A:688:PHE:CE1	1:A:693:MET:SD	2.43	1.10
1:A:761:LEU:HD21	1:A:874:HIS:CE1	1.85	1.10
2:B:1058:LYS:CD	2:B:1166:GLU:O	1.97	1.10
2:B:2543:GLY:HA2	19:B:5501:ADP:O2A	1.48	1.10
3:C:10:LEU:CD2	3:C:65:ASN:O	1.99	1.10
3:C:261:ILE:HG13	3:C:360:PRO:HB3	1.27	1.10
3:C:2018:GLN:HE21	19:C:4702:ADP:H2'	1.15	1.10
3:C:2719:VAL:HG13	3:C:2720:PRO:HD3	1.25	1.10
4:D:111:MET:HE3	15:O:90:ILE:CG2	1.80	1.10
14:N:72:ILE:CG1	15:O:97:ILE:HD13	1.79	1.10
1:A:3249:ILE:CG1	1:A:3273:TYR:CA	2.27	1.10
1:A:3257:VAL:HG21	1:A:3266:VAL:HG12	1.28	1.10
3:C:2585:PHE:CE1	3:C:2929:LEU:HA	1.85	1.10
3:C:2793:LEU:O	3:C:2796:PRO:HD2	0.95	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:78:ILE:HD11	9:I:106:LEU:CD2	1.80	1.10
12:L:16:LEU:HD12	12:L:17:PRO:CD	1.80	1.10
2:B:467:VAL:C	2:B:471:THR:OG1	1.89	1.10
2:B:3314:ILE:HG12	2:B:3321:PHE:HE2	0.96	1.10
5:E:117:GLU:OE2	6:F:17:LEU:HD21	1.51	1.10
2:B:531:LEU:HD22	2:B:540:LEU:HD11	1.29	1.10
2:B:555:LEU:HD21	2:B:625:LEU:HD22	1.15	1.10
2:B:864:ASN:CB	2:B:947:LEU:HD23	1.67	1.10
2:B:1142:SER:O	2:B:1146:VAL:HG23	1.50	1.10
4:D:212:ILE:HD11	9:I:19:MET:HE3	1.17	1.10
4:D:405:ASN:ND2	4:D:406:PRO:HD2	1.66	1.10
10:J:32:CYS:SG	10:J:96:ILE:HD11	1.91	1.10
10:J:48:LEU:HD11	10:J:100:ILE:HD11	1.32	1.10
12:L:74:TRP:NE1	12:L:109:LYS:HD2	1.65	1.10
14:N:85:ILE:HB	14:N:98:ILE:HD11	1.24	1.10
1:A:403:ALA:N	1:A:471:ASN:CB	2.15	1.10
1:A:659:TRP:HZ2	1:A:702:LEU:CD1	1.58	1.10
1:A:837:GLN:HE22	1:A:958:ALA:HB1	1.17	1.10
1:A:1020:PHE:CZ	1:A:1069:TYR:CZ	2.40	1.10
2:B:165:LEU:O	2:B:169:LYS:CB	1.99	1.10
2:B:436:PHE:CZ	2:B:499:LEU:HD22	1.84	1.10
2:B:762:ILE:HG22	2:B:766:ILE:HG13	1.24	1.10
2:B:957:GLN:CA	3:C:220:TRP:CH2	2.34	1.10
2:B:1051:ASP:CG	2:B:1162:THR:HG21	1.72	1.10
4:D:367:LEU:HD11	4:D:371:THR:OG1	1.36	1.10
6:F:50:ALA:CB	8:H:83:GLN:HG3	1.81	1.10
8:H:67:SER:CB	9:I:78:ILE:HG22	1.81	1.10
15:O:45:ARG:HB3	15:O:63:LEU:HD13	1.27	1.10
1:A:3290:LEU:CD2	1:A:3335:TRP:CH2	2.34	1.09
2:B:45:ASN:O	2:B:49:PHE:CB	2.00	1.09
2:B:409:SER:HB2	2:B:413:PHE:CG	1.85	1.09
3:C:205:ALA:HB2	3:C:216:ILE:HG22	1.32	1.09
3:C:2793:LEU:HA	3:C:2796:PRO:HG2	1.33	1.09
3:C:2800:PRO:HD2	3:C:2801:GLU:H	1.13	1.09
3:C:2803:MET:CG	3:C:2814:CYS:SG	2.40	1.09
6:F:91:GLN:CG	6:F:96:THR:CG2	2.21	1.09
10:J:74:PRO:HG3	12:L:102:ARG:HD3	1.11	1.09
10:J:77:HIS:ND1	11:K:70:VAL:HG21	1.59	1.09
1:A:909:MET:CE	1:A:955:ILE:HD11	1.81	1.09
1:A:1638:THR:HB	1:A:1655:GLN:CG	1.83	1.09
2:B:899:LEU:HD12	2:B:900:PHE:N	1.66	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:265:ARG:CG	5:E:125:GLN:HG2	1.80	1.09
8:H:58:HIS:HD2	9:I:87:VAL:HG13	1.18	1.09
1:A:601:PRO:HB2	1:A:698:GLU:CD	1.71	1.09
2:B:501:ARG:NH2	4:D:491:GLN:HG3	0.76	1.09
2:B:682:LYS:NZ	5:E:186:PHE:CE1	1.96	1.09
3:C:2669:ILE:C	3:C:2844:LEU:CB	2.19	1.09
4:D:261:TYR:HE1	5:E:126:ILE:HD13	1.11	1.09
4:D:261:TYR:CE1	5:E:126:ILE:HD13	1.86	1.09
4:D:367:LEU:HG	4:D:371:THR:HG1	1.11	1.09
4:D:397:ASP:HB3	4:D:398:PRO:HD3	1.27	1.09
5:E:82:GLY:HA2	8:H:12:LYS:HZ3	1.08	1.09
1:A:577:ALA:HB2	1:A:636:ARG:CD	1.82	1.09
1:A:601:PRO:CB	1:A:698:GLU:CG	2.31	1.09
1:A:601:PRO:CB	1:A:698:GLU:HG3	1.81	1.09
2:B:1511:VAL:CG2	2:B:1570:VAL:HG21	1.81	1.09
4:D:195:ILE:HG21	9:I:94:LEU:HD22	1.34	1.09
4:D:201:GLN:NE2	9:I:102:ASN:HB3	1.67	1.09
5:E:22:ASP:O	14:N:89:GLN:O	1.70	1.09
5:E:261:HIS:ND1	5:E:283:SER:OG	1.84	1.09
5:E:395:VAL:CG2	5:E:402:ILE:HD12	1.75	1.09
10:J:19:LYS:HE3	15:O:19:LEU:HD13	1.18	1.09
1:A:1540:GLN:O	1:A:1544:ILE:HG13	1.50	1.09
2:B:1492:LYS:CE	2:B:3606:GLN:CD	2.20	1.09
2:B:1492:LYS:NZ	2:B:3606:GLN:OE1	1.85	1.09
4:D:265:ARG:HG2	5:E:125:GLN:HG2	1.14	1.09
6:F:50:ALA:HA	8:H:83:GLN:HG3	1.12	1.09
7:G:119:PRO:CD	9:I:12:ILE:CD1	2.29	1.09
14:N:85:ILE:CG2	14:N:98:ILE:HD12	1.82	1.09
17:Q:39:GLU:O	17:Q:62:ILE:HA	1.51	1.09
1:A:3257:VAL:HG11	1:A:3266:VAL:HG13	1.27	1.08
2:B:3140:LEU:HB2	2:B:3433:TRP:CE3	1.88	1.08
2:B:3150:VAL:HG12	2:B:3423:VAL:HG23	1.13	1.08
3:C:2727:ILE:HD12	3:C:2745:LYS:HB3	1.30	1.08
4:D:111:MET:HE3	15:O:90:ILE:HG21	1.15	1.08
5:E:259:ASN:ND2	5:E:299:GLY:CA	2.15	1.08
1:A:1126:VAL:HG13	1:A:1131:SER:C	1.72	1.08
2:B:429:LEU:CG	2:B:489:PHE:CZ	2.36	1.08
2:B:1375:VAL:CA	2:B:1420:LEU:CB	2.31	1.08
2:B:1531:ILE:HD13	2:B:1595:LEU:HD11	1.32	1.08
4:D:111:MET:CE	15:O:90:ILE:CG2	2.30	1.08
1:A:155:GLY:HA3	2:B:167:GLN:C	1.73	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:429:LEU:CD1	2:B:489:PHE:CZ	2.36	1.08
2:B:900:PHE:CE1	2:B:933:TRP:HH2	1.71	1.08
2:B:1511:VAL:HA	2:B:1570:VAL:CB	1.84	1.08
3:C:159:TYR:CD1	3:C:179:VAL:HG22	1.87	1.08
4:D:170:THR:HG22	13:M:66:ILE:CB	1.82	1.08
1:A:804:ASN:HD21	5:E:148:LYS:HG2	0.95	1.08
2:B:655:LYS:HE3	2:B:708:TYR:OH	1.53	1.08
4:D:106:ILE:HD11	15:O:99:SER:OG	1.52	1.08
4:D:195:ILE:HD13	9:I:94:LEU:HD21	1.12	1.08
5:E:112:LEU:HD21	6:F:97:MET:HG2	1.10	1.08
10:J:19:LYS:HE3	15:O:19:LEU:CD1	1.84	1.08
1:A:634:ILE:HG21	1:A:638:TYR:OH	1.53	1.08
1:A:709:ILE:HG22	1:A:710:PRO:HD2	1.13	1.08
1:A:726:TYR:HE1	1:A:777:ILE:HG23	1.18	1.08
1:A:1513:LYS:HE2	1:A:1578:ASN:OD1	1.53	1.08
1:A:3251:ILE:HD13	17:Q:61:SER:CA	1.84	1.08
2:B:520:ARG:NH1	2:B:550:MET:HG3	1.67	1.08
2:B:789:LYS:HG2	2:B:839:LEU:HD11	1.18	1.08
2:B:1051:ASP:CB	2:B:1162:THR:HG21	1.83	1.08
2:B:1456:PHE:CZ	2:B:1563:VAL:HG13	1.74	1.08
2:B:1573:CYS:O	2:B:1577:ARG:HB3	1.54	1.08
2:B:3230:ALA:CB	2:B:3342:ASN:CG	2.06	1.08
4:D:207:ALA:HB3	9:I:24:ILE:CD1	1.81	1.08
4:D:405:ASN:HD22	4:D:406:PRO:HD2	1.10	1.08
4:D:585:VAL:HG12	4:D:588:PRO:HD3	1.32	1.08
7:G:120:THR:CG2	9:I:12:ILE:CG2	2.30	1.08
8:H:46:LYS:HE3	9:I:86:ASP:HB3	1.30	1.08
1:A:1132:LEU:C	1:A:1272:LEU:CD1	2.21	1.07
1:A:3232:ILE:HD11	1:A:3316:TRP:HZ3	1.19	1.07
2:B:349:ASN:HA	2:B:416:LEU:CD2	1.84	1.07
2:B:1511:VAL:HG13	2:B:1570:VAL:CG2	1.84	1.07
3:C:2743:ASN:HD22	3:C:2785:VAL:CG1	1.65	1.07
4:D:105:MET:SD	14:N:48:GLN:HA	1.93	1.07
4:D:170:THR:HG22	13:M:66:ILE:CG1	1.56	1.07
4:D:177:ASN:OD1	13:M:60:ASN:OD1	1.69	1.07
5:E:263:GLU:HB3	5:E:264:PRO:HD2	1.33	1.07
1:A:155:GLY:HA2	2:B:168:ILE:HA	1.18	1.07
1:A:1444:GLN:HG2	1:A:1560:LYS:HA	1.10	1.07
1:A:2697:ARG:NH1	19:A:4701:ADP:O3B	1.86	1.07
1:A:3215:ILE:HG21	1:A:3219:ASP:OD2	1.53	1.07
2:B:679:ARG:HB2	5:E:186:PHE:HE2	1.18	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:794:LEU:CA	2:B:797:PHE:CE2	2.36	1.07
2:B:970:ALA:HB3	3:C:345:TRP:HZ3	0.96	1.07
2:B:1004:SER:OG	2:B:1094:TRP:CH2	2.08	1.07
2:B:1238:LYS:HE2	2:B:1308:LEU:HA	1.12	1.07
2:B:1450:TRP:O	2:B:1454:GLN:CG	2.02	1.07
2:B:1511:VAL:CG2	2:B:1570:VAL:CB	2.30	1.07
2:B:3262:LEU:O	2:B:3297:PHE:CZ	2.08	1.07
2:B:3264:ASN:ND2	2:B:3303:GLU:OE1	1.87	1.07
2:B:3314:ILE:HG12	2:B:3321:PHE:CE2	1.89	1.07
3:C:53:PRO:HG2	3:C:81:PRO:CB	1.84	1.07
4:D:109:PHE:CE2	15:O:121:TYR:CD2	2.42	1.07
4:D:148:GLU:HG2	4:D:149:PRO:HD2	1.09	1.07
12:L:16:LEU:CD1	12:L:17:PRO:HD2	1.84	1.07
14:N:25:PHE:HZ	14:N:103:ILE:HD13	0.96	1.07
1:A:1273:PHE:CA	4:D:166:PHE:HZ	1.50	1.07
1:A:3303:ILE:HD11	1:A:3340:TYR:HE2	0.91	1.07
2:B:518:TYR:HE1	5:E:407:TYR:CE2	1.71	1.07
2:B:864:ASN:HA	2:B:947:LEU:HG	1.12	1.07
3:C:2708:GLN:NE2	3:C:2809:ALA:O	1.86	1.07
3:C:2727:ILE:CD1	3:C:2745:LYS:CG	2.30	1.07
3:C:2792:TYR:O	3:C:2796:PRO:HG3	0.91	1.07
3:C:2803:MET:HG3	3:C:2814:CYS:SG	1.95	1.07
5:E:46:ASN:CB	12:L:88:PHE:CE1	2.37	1.07
12:L:77:ILE:HG12	13:M:65:ILE:HD11	1.37	1.07
2:B:444:LEU:CD2	5:E:515:LYS:CE	2.31	1.07
4:D:517:ILE:HD13	4:D:527:ILE:HG23	1.33	1.07
6:F:62:VAL:HG21	7:G:106:LEU:HD11	1.22	1.07
1:A:1126:VAL:HG21	1:A:1135:VAL:HG23	1.31	1.07
1:A:1274:GLY:HA3	4:D:164:ASN:HB3	1.09	1.07
1:A:1522:GLU:HG3	1:A:1523:PRO:HD3	1.07	1.07
1:A:3121:LEU:CD2	1:A:3429:TRP:HB2	1.84	1.07
2:B:545:ILE:HD11	2:B:616:ARG:HH11	1.19	1.07
2:B:3150:VAL:CG1	2:B:3423:VAL:CG2	2.33	1.07
4:D:170:THR:HG23	13:M:66:ILE:HG12	1.29	1.07
5:E:16:ASN:HB2	15:O:132:GLU:HA	1.26	1.07
16:P:16:GLU:HA	16:P:74:LEU:CB	1.85	1.07
1:A:601:PRO:HB2	1:A:698:GLU:CG	1.85	1.06
1:A:730:LEU:HD21	1:A:781:LEU:HD21	1.37	1.06
1:A:997:LYS:CD	18:R:149:LEU:CA	2.15	1.06
1:A:1101:HIS:HA	1:A:1163:LEU:CD1	1.85	1.06
1:A:1132:LEU:HB3	1:A:1272:LEU:HD12	1.12	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1422:SER:CB	1:A:1486:HIS:CE1	2.37	1.06
1:A:1633:ALA:O	1:A:1838:PHE:CE2	2.06	1.06
1:A:3106:LYS:CG	1:A:3443:LEU:HD11	1.84	1.06
1:A:3121:LEU:HD23	1:A:3429:TRP:CB	1.71	1.06
1:A:3257:VAL:HG11	1:A:3266:VAL:CA	1.83	1.06
2:B:345:ARG:CB	2:B:412:LEU:HD11	1.85	1.06
2:B:429:LEU:HD11	2:B:489:PHE:CD2	1.90	1.06
2:B:444:LEU:CD2	5:E:515:LYS:NZ	2.18	1.06
3:C:2701:ILE:CD1	3:C:2704:LYS:HE3	1.83	1.06
3:C:2701:ILE:HD11	3:C:2704:LYS:CG	1.85	1.06
3:C:2720:PRO:HB3	3:C:2798:PHE:HE2	1.17	1.06
3:C:2734:PHE:HE2	3:C:2767:LYS:CD	1.66	1.06
4:D:285:PRO:HG3	4:D:584:ILE:HG22	1.35	1.06
5:E:70:ASP:OD2	9:I:64:LYS:CE	2.03	1.06
6:F:56:TRP:CG	6:F:91:GLN:NE2	2.22	1.06
1:A:613:LEU:HD21	4:D:523:TRP:HH2	1.09	1.06
1:A:804:ASN:ND2	5:E:148:LYS:HB3	1.71	1.06
2:B:409:SER:O	2:B:413:PHE:HB2	1.52	1.06
2:B:511:PHE:HE2	2:B:547:LEU:CD2	1.68	1.06
2:B:741:ILE:HD13	2:B:776:LEU:HD11	1.38	1.06
2:B:1238:LYS:HE3	2:B:1308:LEU:CB	1.85	1.06
2:B:1511:VAL:HG22	2:B:1570:VAL:CG2	1.84	1.06
3:C:2721:GLU:OE1	3:C:2814:CYS:HA	1.54	1.06
3:C:2723:PHE:HE1	3:C:2749:VAL:HG12	1.12	1.06
4:D:248:MET:HE1	7:G:147:VAL:HB	1.33	1.06
7:G:120:THR:HG22	9:I:12:ILE:HG23	1.09	1.06
2:B:10:PRO:CB	2:B:25:GLN:CB	2.32	1.06
2:B:533:ARG:HG2	2:B:534:PRO:HD3	1.34	1.06
2:B:3118:TYR:HB2	2:B:3455:SER:CB	1.84	1.06
4:D:80:PRO:HD2	15:O:103:TRP:CZ2	1.90	1.06
4:D:91:TYR:CZ	13:M:80:LEU:HD12	1.89	1.06
4:D:297:LYS:NZ	4:D:328:LEU:CB	2.17	1.06
12:L:73:GLU:HB3	13:M:66:ILE:HD12	1.31	1.06
1:A:1396:PRO:CA	1:A:1400:TYR:CB	2.33	1.06
2:B:970:ALA:HB1	3:C:345:TRP:CZ3	1.90	1.06
4:D:90:ASP:OD2	13:M:32:LYS:CG	2.02	1.06
4:D:111:MET:HB3	15:O:95:LEU:H	1.20	1.06
4:D:148:GLU:HG2	4:D:149:PRO:CD	1.85	1.06
7:G:119:PRO:CD	9:I:12:ILE:HD12	1.86	1.06
1:A:403:ALA:H	1:A:471:ASN:CB	1.67	1.06
1:A:598:ARG:HH12	4:D:546:VAL:CG1	1.67	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:801:ILE:HB	1:A:862:LEU:HD21	1.34	1.06
1:A:1012:LYS:HB2	1:A:1071:ILE:HD13	1.07	1.06
1:A:1445:PHE:CD2	1:A:1564:CYS:SG	2.48	1.06
1:A:3215:ILE:CG2	1:A:3219:ASP:OD2	2.04	1.06
2:B:1238:LYS:HE3	2:B:1308:LEU:HA	1.08	1.06
2:B:1607:PRO:CG	2:B:1946:SER:CB	2.33	1.06
3:C:2719:VAL:CG1	3:C:2720:PRO:HD3	1.86	1.06
3:C:2792:TYR:C	3:C:2796:PRO:HG3	1.75	1.06
4:D:567:GLN:OE1	4:D:578:LYS:HD3	1.56	1.06
8:H:46:LYS:CE	9:I:86:ASP:CB	2.34	1.06
18:R:82:ALA:C	18:R:83:ASN:HA	1.72	1.06
1:A:601:PRO:CG	1:A:698:GLU:CG	2.24	1.05
1:A:817:VAL:O	1:A:818:LEU:HD13	0.89	1.05
1:A:1452:LYS:HA	1:A:1458:MET:N	1.68	1.05
3:C:2721:GLU:CB	3:C:2803:MET:CE	2.34	1.05
4:D:251:MET:CB	7:G:136:MET:HE2	1.86	1.05
5:E:16:ASN:CG	15:O:132:GLU:HA	1.75	1.05
5:E:82:GLY:HA2	8:H:12:LYS:NZ	1.69	1.05
8:H:46:LYS:HE2	9:I:86:ASP:CB	1.84	1.05
11:K:77:PHE:CE1	11:K:88:LEU:HD11	1.91	1.05
1:A:804:ASN:ND2	5:E:148:LYS:CB	2.18	1.05
1:A:971:ASN:HA	1:A:985:PHE:HE2	0.91	1.05
1:A:3298:ILE:C	1:A:3343:HIS:HE1	1.58	1.05
1:A:3386:ASN:O	1:A:3390:VAL:HG23	1.55	1.05
2:B:1242:GLN:O	2:B:1252:MET:N	1.88	1.05
3:C:354:VAL:HG11	3:C:357:ILE:CD1	1.87	1.05
4:D:517:ILE:HD11	4:D:527:ILE:HG23	1.32	1.05
16:P:10:THR:HA	16:P:65:ASP:CB	1.86	1.05
1:A:3222:GLU:HB3	1:A:3328:ALA:HB2	1.37	1.05
2:B:436:PHE:CE1	2:B:499:LEU:HD23	1.86	1.05
3:C:2803:MET:HB2	3:C:2814:CYS:SG	1.90	1.05
4:D:414:PHE:CD2	4:D:426:TRP:CD1	2.44	1.05
4:D:517:ILE:HD12	4:D:527:ILE:HG12	1.33	1.05
4:D:528:TRP:NE1	4:D:535:GLN:HB3	1.72	1.05
4:D:590:LEU:HD23	4:D:604:VAL:CG1	1.86	1.05
5:E:61:VAL:HG23	10:J:106:LEU:HD22	1.34	1.05
5:E:239:LEU:HD21	5:E:257:VAL:HG22	1.11	1.05
14:N:72:ILE:HG23	15:O:97:ILE:HG12	1.13	1.05
1:A:659:TRP:HZ2	1:A:702:LEU:HD11	0.93	1.05
1:A:688:PHE:HE1	1:A:693:MET:SD	1.78	1.05
1:A:1114:GLN:O	1:A:1118:LEU:HD22	1.57	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3306:LEU:O	1:A:3306:LEU:CD1	2.04	1.05
2:B:1106:PHE:CZ	2:B:1160:ILE:HD11	1.92	1.05
2:B:1511:VAL:HA	2:B:1570:VAL:HG22	1.30	1.05
3:C:2746:PRO:HD2	3:C:2747:LYS:H	1.19	1.05
4:D:395:HIS:NE2	4:D:399:VAL:HG11	1.61	1.05
5:E:20:PHE:CE1	14:N:89:GLN:HA	1.91	1.05
5:E:164:VAL:CG2	5:E:181:TYR:HE1	1.66	1.05
7:G:120:THR:HG23	9:I:12:ILE:CG2	1.87	1.05
8:H:58:HIS:CD2	9:I:87:VAL:HG13	1.92	1.05
9:I:26:ASN:CB	9:I:98:PHE:CE2	2.40	1.05
10:J:21:PHE:CZ	10:J:37:LEU:CD2	2.40	1.05
10:J:77:HIS:ND1	11:K:70:VAL:HG22	1.70	1.05
1:A:1422:SER:CB	1:A:1486:HIS:NE2	2.20	1.05
1:A:1505:ASN:O	1:A:1509:ASP:OD2	1.74	1.05
2:B:511:PHE:HE2	2:B:547:LEU:HD21	1.15	1.05
2:B:1492:LYS:HE3	2:B:3606:GLN:NE2	1.72	1.05
4:D:526:ARG:HB2	4:D:528:TRP:CH2	1.92	1.05
5:E:112:LEU:CD2	6:F:97:MET:SD	2.45	1.05
1:A:601:PRO:HG2	1:A:698:GLU:HG3	1.09	1.04
1:A:688:PHE:CE1	1:A:693:MET:CG	2.40	1.04
1:A:1067:PRO:CD	1:A:1067:PRO:N	2.19	1.04
1:A:1505:ASN:O	1:A:1509:ASP:CG	1.95	1.04
1:A:1513:LYS:CD	1:A:1578:ASN:ND2	2.15	1.04
1:A:3249:ILE:HG12	1:A:3273:TYR:HA	1.36	1.04
2:B:946:ARG:CA	2:B:955:PHE:HE2	1.68	1.04
3:C:2725:ALA:O	3:C:2729:LEU:HG	1.57	1.04
3:C:2726:THR:CB	3:C:2729:LEU:HD12	1.86	1.04
4:D:195:ILE:HD13	9:I:94:LEU:CD2	1.86	1.04
4:D:297:LYS:HE3	4:D:316:LEU:CD2	1.86	1.04
5:E:46:ASN:CG	12:L:88:PHE:CE1	2.30	1.04
5:E:282:THR:HG23	5:E:322:LEU:HD12	1.38	1.04
5:E:395:VAL:HG21	5:E:402:ILE:HD11	1.06	1.04
8:H:68:PHE:HB2	9:I:60:CYS:HB3	1.39	1.04
1:A:617:ILE:HD12	1:A:647:GLN:HE22	1.16	1.04
1:A:760:ASP:OD2	1:A:764:ARG:CG	2.05	1.04
1:A:1518:TRP:NE1	1:A:1545:ASP:OD1	1.89	1.04
1:A:3229:PRO:HB2	1:A:3233:ILE:CG2	1.87	1.04
1:A:3308:PRO:HB3	17:Q:33:PHE:CB	1.86	1.04
2:B:673:PHE:CE1	2:B:677:LEU:HD13	1.93	1.04
2:B:789:LYS:HE3	2:B:839:LEU:CD2	1.87	1.04
2:B:1511:VAL:CA	2:B:1570:VAL:CG1	2.35	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1511:VAL:CG2	2:B:1570:VAL:CG2	2.35	1.04
4:D:212:ILE:HD13	9:I:19:MET:HE1	1.37	1.04
8:H:66:GLY:N	9:I:79:ILE:O	1.90	1.04
9:I:51:ALA:HB1	9:I:52:PRO:CD	1.87	1.04
15:O:30:TYR:OH	15:O:126:VAL:HG12	1.53	1.04
1:A:655:PHE:CE2	1:A:659:TRP:NE1	2.25	1.04
2:B:436:PHE:HD2	2:B:463:PHE:CE1	1.73	1.04
2:B:501:ARG:CZ	4:D:491:GLN:CG	2.19	1.04
2:B:794:LEU:O	2:B:797:PHE:CD2	2.11	1.04
2:B:1051:ASP:HB3	2:B:1162:THR:HG21	1.38	1.04
4:D:91:TYR:CE2	13:M:80:LEU:CB	2.38	1.04
4:D:195:ILE:HG21	9:I:94:LEU:CD2	1.88	1.04
10:J:21:PHE:HZ	10:J:37:LEU:CD2	1.69	1.04
15:O:22:LEU:HD12	15:O:23:ASN:CG	1.77	1.04
1:A:3446:ASN:OD1	1:A:3488:LEU:HD22	1.55	1.04
2:B:598:ARG:HB2	5:E:367:LEU:HD13	1.33	1.04
2:B:801:ILE:CD1	2:B:937:PHE:CE1	2.23	1.04
2:B:861:ASP:OD2	3:C:170:GLN:HB3	0.89	1.04
4:D:106:ILE:HG13	15:O:99:SER:O	1.56	1.04
4:D:172:GLU:HA	13:M:64:HIS:HA	1.31	1.04
10:J:34:ASP:HB2	15:O:31:PRO:CG	1.88	1.04
1:A:804:ASN:ND2	5:E:148:LYS:HG2	1.72	1.04
1:A:1052:LEU:HB3	1:A:1166:TYR:CE2	1.93	1.04
1:A:1121:LYS:HB3	1:A:1138:THR:HG21	1.05	1.04
1:A:3249:ILE:HG13	1:A:3273:TYR:HA	1.07	1.04
2:B:533:ARG:CB	2:B:534:PRO:HD2	1.86	1.04
2:B:718:ILE:HD11	2:B:773:VAL:CB	1.88	1.04
2:B:1559:MET:CG	2:B:1577:ARG:HH22	1.71	1.04
2:B:3118:TYR:HB2	2:B:3455:SER:HB2	1.39	1.04
4:D:297:LYS:HE3	4:D:316:LEU:HD23	1.07	1.04
5:E:46:ASN:HB3	12:L:88:PHE:CE1	1.93	1.04
14:N:89:GLN:HG2	14:N:94:ASP:HB2	1.38	1.04
15:O:22:LEU:CD1	15:O:23:ASN:CG	2.26	1.04
1:A:597:VAL:HB	1:A:600:MET:HG3	1.39	1.03
2:B:444:LEU:CA	5:E:515:LYS:HG2	1.84	1.03
2:B:641:ILE:O	2:B:645:GLU:HG3	1.58	1.03
3:C:2742:LYS:CE	3:C:2785:VAL:HG21	1.88	1.03
5:E:310:LEU:HD21	5:E:358:ARG:NH2	1.72	1.03
16:P:11:THR:O	16:P:67:LEU:HA	1.55	1.03
1:A:1445:PHE:CD2	1:A:1564:CYS:HB3	1.88	1.03
1:A:3106:LYS:CG	1:A:3443:LEU:CD1	2.37	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:436:PHE:CD2	2:B:463:PHE:CD1	2.47	1.03
2:B:882:LEU:O	2:B:886:ILE:HG22	1.56	1.03
2:B:1447:ILE:HG22	2:B:1504:TRP:NE1	1.55	1.03
7:G:119:PRO:HD2	9:I:12:ILE:HD13	1.34	1.03
7:G:119:PRO:HG2	9:I:12:ILE:HG21	1.06	1.03
10:J:26:VAL:HG22	10:J:97:TYR:O	1.50	1.03
1:A:1143:ARG:CZ	4:D:169:ASN:ND2	2.21	1.03
2:B:444:LEU:HD23	5:E:515:LYS:HE2	1.26	1.03
2:B:1607:PRO:CB	2:B:1946:SER:OG	2.06	1.03
2:B:1607:PRO:HB3	2:B:1946:SER:OG	1.57	1.03
2:B:3164:VAL:CG1	2:B:3409:ALA:HB2	1.89	1.03
3:C:354:VAL:CG1	3:C:357:ILE:HD12	1.88	1.03
4:D:170:THR:HG22	13:M:66:ILE:HG12	1.12	1.03
4:D:528:TRP:CD1	4:D:535:GLN:CA	2.41	1.03
5:E:46:ASN:ND2	12:L:25:ASP:OD2	1.90	1.03
12:L:74:TRP:CE2	12:L:109:LYS:HD2	1.92	1.03
14:N:72:ILE:HG21	15:O:97:ILE:HD11	1.04	1.03
1:A:3449:LEU:HD23	1:A:3488:LEU:HD23	1.39	1.03
2:B:165:LEU:O	2:B:169:LYS:N	1.91	1.03
2:B:500:GLU:OE1	2:B:535:ILE:HD12	0.85	1.03
2:B:789:LYS:HB3	2:B:839:LEU:HD13	1.40	1.03
2:B:954:ASP:CG	3:C:222:PHE:O	1.96	1.03
3:C:205:ALA:CB	3:C:216:ILE:HG22	1.88	1.03
3:C:261:ILE:HG13	3:C:360:PRO:CB	1.89	1.03
3:C:2721:GLU:HB2	3:C:2803:MET:HE1	1.05	1.03
4:D:80:PRO:CG	15:O:103:TRP:HE1	1.71	1.03
10:J:26:VAL:HG23	10:J:97:TYR:O	1.58	1.03
1:A:801:ILE:CG2	1:A:862:LEU:CD2	2.31	1.03
1:A:804:ASN:HD21	5:E:148:LYS:CG	1.70	1.03
1:A:1126:VAL:CA	1:A:1131:SER:OG	2.06	1.03
2:B:87:LYS:O	2:B:103:ASN:CA	2.07	1.03
2:B:1002:GLN:HA	2:B:1094:TRP:CZ2	1.94	1.03
3:C:2745:LYS:CG	3:C:2749:VAL:HG21	1.87	1.03
3:C:2793:LEU:C	3:C:2796:PRO:HD3	1.76	1.03
5:E:48:ILE:HG12	12:L:88:PHE:HZ	1.19	1.03
6:F:50:ALA:HA	8:H:83:GLN:CG	1.88	1.03
17:Q:68:LEU:O	17:Q:92:ASP:CB	2.06	1.03
1:A:1445:PHE:HD2	1:A:1564:CYS:SG	1.79	1.02
1:A:3251:ILE:HD13	17:Q:61:SER:C	1.78	1.02
2:B:801:ILE:CD1	2:B:937:PHE:CD1	2.42	1.02
2:B:897:SER:HB2	2:B:898:PRO:HD2	1.41	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1127:ASN:HB3	2:B:1128:PRO:HD3	1.38	1.02
2:B:3153:LEU:HD12	2:B:3707:LEU:HD11	1.04	1.02
3:C:24:HIS:NE2	3:C:325:SER:OG	1.66	1.02
4:D:170:THR:HG22	13:M:66:ILE:HA	1.39	1.02
4:D:177:ASN:ND2	13:M:60:ASN:CB	1.77	1.02
7:G:58:SER:O	7:G:62:ASP:N	1.90	1.02
12:L:73:GLU:CB	13:M:66:ILE:HD12	1.87	1.02
1:A:709:ILE:CG2	1:A:710:PRO:HD2	1.89	1.02
2:B:533:ARG:CB	2:B:534:PRO:CD	2.37	1.02
2:B:1123:GLY:HA2	2:B:1197:PHE:CE1	1.94	1.02
2:B:1607:PRO:HG2	2:B:1946:SER:CB	1.90	1.02
3:C:2673:VAL:CB	3:C:2841:THR:HA	1.89	1.02
3:C:2735:ASN:HB3	3:C:2757:LEU:HA	1.40	1.02
4:D:518:SER:OG	4:D:528:TRP:CZ3	2.11	1.02
4:D:584:ILE:HG21	4:D:614:VAL:CG2	1.88	1.02
5:E:16:ASN:HB3	15:O:132:GLU:CG	1.81	1.02
5:E:492:ASP:CA	5:E:495:TYR:CE2	2.42	1.02
6:F:56:TRP:CE2	6:F:91:GLN:NE2	2.23	1.02
8:H:46:LYS:CE	9:I:86:ASP:HB3	1.88	1.02
1:A:1126:VAL:O	1:A:1208:TYR:OH	1.75	1.02
1:A:3099:TYR:HA	1:A:3451:THR:HG21	1.41	1.02
2:B:444:LEU:HD11	2:B:527:PHE:HE1	0.87	1.02
2:B:829:VAL:HG11	2:B:940:ILE:HG23	1.38	1.02
2:B:1437:GLU:HG2	2:B:1493:TYR:CB	1.89	1.02
3:C:2721:GLU:CB	3:C:2803:MET:HE1	1.89	1.02
3:C:2721:GLU:OE2	3:C:2798:PHE:HE1	1.41	1.02
4:D:174:GLN:CB	13:M:62:GLY:CA	2.36	1.02
4:D:528:TRP:CD1	4:D:535:GLN:HA	1.93	1.02
8:H:12:LYS:HG2	8:H:80:TYR:CD2	1.95	1.02
1:A:1513:LYS:HD3	1:A:1578:ASN:ND2	1.72	1.02
2:B:679:ARG:CB	5:E:186:PHE:CE2	2.41	1.02
2:B:1531:ILE:HG21	2:B:1595:LEU:HD11	1.42	1.02
3:C:10:LEU:CD2	3:C:65:ASN:C	2.27	1.02
15:O:45:ARG:CB	15:O:63:LEU:HD13	1.89	1.02
1:A:580:LEU:HD22	1:A:640:SER:HB3	1.02	1.02
1:A:590:GLN:HB2	1:A:609:TRP:CZ2	1.94	1.02
2:B:349:ASN:CA	2:B:416:LEU:CD2	2.37	1.02
2:B:736:LEU:HD12	2:B:859:TYR:CB	1.90	1.02
2:B:1511:VAL:N	2:B:1570:VAL:HG11	1.74	1.02
3:C:60:LEU:CD2	3:C:69:TRP:CH2	2.42	1.02
4:D:172:GLU:HA	13:M:64:HIS:CB	1.86	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:173:CYS:O	13:M:63:SER:N	1.91	1.02
5:E:22:ASP:HB3	14:N:91:THR:HG23	1.05	1.02
5:E:394:TRP:CD1	5:E:401:PRO:CA	2.42	1.02
5:E:492:ASP:HA	5:E:495:TYR:CZ	1.93	1.02
1:A:95:PHE:O	1:A:124:THR:N	1.93	1.01
1:A:804:ASN:ND2	5:E:148:LYS:CG	2.23	1.01
1:A:853:VAL:HB	5:E:206:ASN:CG	1.79	1.01
1:A:1444:GLN:HB3	1:A:1559:LYS:O	1.60	1.01
2:B:533:ARG:HB3	2:B:534:PRO:HD2	1.01	1.01
2:B:946:ARG:HA	2:B:955:PHE:CZ	1.95	1.01
2:B:2666:ARG:CD	20:B:5601:ATP:O1G	2.08	1.01
3:C:2669:ILE:HD12	3:C:2847:ALA:HB1	1.42	1.01
4:D:105:MET:CE	14:N:48:GLN:HA	1.88	1.01
4:D:173:CYS:N	13:M:63:SER:O	1.92	1.01
8:H:76:TYR:HE1	8:H:87:LEU:HD11	1.21	1.01
9:I:78:ILE:HD12	9:I:106:LEU:HB3	1.41	1.01
1:A:670:LEU:HB2	1:A:692:ILE:CD1	1.89	1.01
1:A:1012:LYS:HB3	1:A:1071:ILE:HG21	1.35	1.01
1:A:1396:PRO:HA	1:A:1400:TYR:CB	1.90	1.01
1:A:1504:VAL:HG22	1:A:1565:CYS:SG	2.00	1.01
2:B:883:ASN:HA	2:B:886:ILE:CG2	1.90	1.01
3:C:2585:PHE:HB2	3:C:2932:SER:CB	1.90	1.01
3:C:2723:PHE:CE1	3:C:2749:VAL:HG12	1.87	1.01
4:D:175:THR:N	13:M:61:PHE:O	1.92	1.01
5:E:35:VAL:O	14:N:78:HIS:ND1	1.92	1.01
1:A:580:LEU:HD21	1:A:640:SER:HB3	1.31	1.01
1:A:970:TYR:O	1:A:983:ALA:CB	2.09	1.01
1:A:1121:LYS:CB	1:A:1138:THR:HG21	1.89	1.01
1:A:3273:TYR:OH	1:A:3277:GLY:HA3	1.13	1.01
2:B:444:LEU:CD1	2:B:527:PHE:HE1	1.74	1.01
2:B:3264:ASN:HB2	2:B:3306:ILE:HD11	1.10	1.01
3:C:2792:TYR:O	3:C:2796:PRO:CD	2.08	1.01
4:D:567:GLN:HB3	4:D:578:LYS:HD2	1.38	1.01
5:E:23:THR:HG21	14:N:88:TYR:HD1	1.24	1.01
5:E:119:CYS:CB	6:F:88:ILE:HD13	1.91	1.01
10:J:86:CYS:HB2	11:K:61:VAL:HG13	1.38	1.01
1:A:38:LYS:HA	1:A:44:PHE:CB	1.89	1.01
1:A:2164:SER:OG	20:A:4801:ATP:O1B	1.77	1.01
1:A:3251:ILE:CD1	17:Q:61:SER:HA	1.72	1.01
2:B:3264:ASN:CB	2:B:3306:ILE:CD1	2.24	1.01
2:B:3342:ASN:O	2:B:3346:PHE:CB	2.08	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2740:ILE:CB	3:C:2744:LYS:HB3	1.88	1.01
14:N:70:THR:HG22	15:O:99:SER:CB	1.89	1.01
1:A:891:PHE:HE1	1:A:972:TRP:CE3	1.44	1.01
1:A:1121:LYS:HB3	1:A:1138:THR:CG2	1.91	1.01
1:A:3106:LYS:HG2	1:A:3443:LEU:CG	1.90	1.01
1:A:3121:LEU:HD23	1:A:3429:TRP:HB3	1.31	1.01
2:B:409:SER:CB	2:B:413:PHE:HD1	1.45	1.01
2:B:429:LEU:HD11	2:B:489:PHE:CE2	1.92	1.01
2:B:744:MET:HG3	2:B:776:LEU:HD22	1.43	1.01
6:F:35:ARG:CZ	6:F:41:SER:HB2	1.89	1.01
8:H:54:HIS:NE2	18:R:62:LYS:HA	1.75	1.01
8:H:76:TYR:CE1	8:H:87:LEU:HD11	1.96	1.01
1:A:747:ILE:CD1	1:A:889:TYR:CE1	2.44	1.00
1:A:853:VAL:CB	5:E:206:ASN:HD21	1.64	1.00
1:A:3110:LEU:HD11	1:A:3443:LEU:HD22	1.43	1.00
2:B:1223:LYS:HZ1	2:B:1277:ARG:CB	1.64	1.00
3:C:2690:LEU:CB	3:C:2826:VAL:HG11	1.90	1.00
4:D:201:GLN:CD	9:I:102:ASN:HB3	1.80	1.00
1:A:598:ARG:HH22	4:D:546:VAL:HG11	1.25	1.00
1:A:617:ILE:HD12	1:A:647:GLN:NE2	1.77	1.00
1:A:3298:ILE:CA	1:A:3343:HIS:HE1	1.74	1.00
2:B:87:LYS:O	2:B:103:ASN:HA	1.59	1.00
2:B:1447:ILE:HG22	2:B:1504:TRP:CZ2	1.95	1.00
2:B:1566:ASN:CG	3:C:2275:LYS:HD3	1.80	1.00
10:J:61:ALA:CB	10:J:80:PHE:HE2	1.63	1.00
12:L:84:CYS:CB	13:M:56:ILE:HG12	1.92	1.00
1:A:688:PHE:CE1	1:A:693:MET:HG2	1.95	1.00
1:A:971:ASN:CA	1:A:985:PHE:HE2	1.75	1.00
1:A:1051:GLN:OE1	1:A:1096:TYR:CE1	2.14	1.00
1:A:3194:ALA:HB1	1:A:3356:VAL:CG2	1.91	1.00
1:A:3235:TYR:HE2	1:A:3269:LEU:HD11	1.19	1.00
2:B:725:ILE:HG21	2:B:776:LEU:HG	1.42	1.00
2:B:946:ARG:N	2:B:955:PHE:HE2	1.59	1.00
2:B:1511:VAL:CG2	2:B:1570:VAL:HB	1.89	1.00
2:B:3078:ILE:HD12	2:B:3452:LEU:HD22	1.37	1.00
2:B:3261:ILE:CG2	2:B:3306:ILE:HG23	1.89	1.00
3:C:2740:ILE:HG13	3:C:2744:LYS:HB3	1.05	1.00
3:C:2798:PHE:CD1	3:C:2803:MET:SD	2.55	1.00
1:A:726:TYR:CE1	1:A:777:ILE:HG23	1.95	1.00
1:A:1051:GLN:OE1	1:A:1096:TYR:OH	1.79	1.00
2:B:518:TYR:CE1	5:E:407:TYR:HE2	1.77	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1456:PHE:HZ	2:B:1563:VAL:CG1	1.48	1.00
2:B:3234:LEU:HD13	2:B:3336:LEU:HD23	1.43	1.00
4:D:75:LEU:HD23	4:D:75:LEU:H	1.24	1.00
4:D:251:MET:HB2	7:G:136:MET:CE	1.86	1.00
1:A:21:LEU:O	1:A:25:ASP:CA	2.09	1.00
1:A:867:MET:SD	1:A:878:VAL:HG11	2.01	1.00
1:A:3249:ILE:CD1	1:A:3273:TYR:HA	1.92	1.00
2:B:897:SER:CB	2:B:898:PRO:CD	2.40	1.00
3:C:2606:GLY:C	3:C:2910:TRP:HZ3	1.64	1.00
4:D:569:TYR:CE2	4:D:578:LYS:CG	2.42	1.00
1:A:634:ILE:CG2	1:A:638:TYR:OH	2.07	1.00
1:A:1031:ILE:HG23	1:A:1034:SER:OG	1.60	1.00
1:A:1638:THR:HB	1:A:1655:GLN:HG3	1.42	1.00
1:A:3223:LEU:HD11	1:A:3332:ILE:CG1	1.55	1.00
1:A:3306:LEU:CD1	1:A:3310:LEU:HG	1.91	1.00
4:D:68:GLU:HG3	5:E:12:LYS:HA	1.40	1.00
2:B:433:ILE:HG23	2:B:463:PHE:HZ	0.92	1.00
2:B:1559:MET:HE2	2:B:1577:ARG:HD3	1.44	1.00
3:C:159:TYR:CD1	3:C:179:VAL:CG2	2.44	1.00
3:C:2585:PHE:CD1	3:C:2929:LEU:HA	1.96	1.00
4:D:620:LEU:HD12	4:D:620:LEU:O	1.61	1.00
1:A:1274:GLY:CA	4:D:164:ASN:HB3	1.92	0.99
1:A:1445:PHE:HD2	1:A:1564:CYS:HG	1.04	0.99
2:B:3446:SER:CB	2:B:3489:THR:CG2	2.17	0.99
3:C:2734:PHE:HE2	3:C:2767:LYS:HG3	1.11	0.99
5:E:14:PHE:HZ	15:O:22:LEU:O	1.43	0.99
1:A:155:GLY:HA2	2:B:168:ILE:CA	1.89	0.99
2:B:660:LEU:CG	2:B:755:ILE:HD13	1.92	0.99
2:B:946:ARG:CA	2:B:955:PHE:CE2	2.43	0.99
2:B:973:THR:OG1	3:C:344:ASN:CB	2.10	0.99
4:D:184:GLY:CA	11:K:69:TYR:HD1	1.75	0.99
5:E:310:LEU:HG	5:E:358:ARG:CZ	1.93	0.99
6:F:14:LEU:HD23	6:F:23:TYR:HD2	1.19	0.99
7:G:120:THR:HG23	9:I:12:ILE:HG23	1.36	0.99
1:A:747:ILE:HD11	1:A:889:TYR:CE1	1.97	0.99
2:B:3300:GLU:OE2	2:B:3354:LYS:CD	2.10	0.99
3:C:2745:LYS:CE	3:C:2749:VAL:HG21	1.91	0.99
4:D:174:GLN:NE2	12:L:51:LYS:H	1.59	0.99
17:Q:69:ASN:CA	17:Q:92:ASP:CB	2.40	0.99
1:A:972:TRP:HZ3	1:A:985:PHE:CE1	1.79	0.99
2:B:52:PHE:C	2:B:53:ILE:N	2.15	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3118:TYR:CD2	2:B:3452:LEU:HA	1.97	0.99
5:E:14:PHE:CZ	15:O:22:LEU:O	2.16	0.99
1:A:937:LEU:HD13	1:A:1081:ILE:HG12	1.42	0.99
1:A:3121:LEU:HD21	1:A:3429:TRP:CA	1.91	0.99
14:N:86:THR:OG1	15:O:83:VAL:HG13	1.60	0.99
2:B:679:ARG:HB2	5:E:186:PHE:CE2	1.98	0.99
3:C:143:PRO:HD3	3:C:187:TRP:NE1	1.77	0.99
3:C:2740:ILE:CG2	3:C:2744:LYS:CB	2.11	0.99
4:D:113:GLY:HA3	15:O:92:GLY:O	1.62	0.99
4:D:569:TYR:OH	4:D:578:LYS:CD	2.10	0.99
2:B:528:GLU:CD	5:E:526:GLN:HE21	1.66	0.99
3:C:354:VAL:HG21	3:C:357:ILE:HG13	1.41	0.99
5:E:59:HIS:HD2	10:J:90:HIS:CE1	1.81	0.99
9:I:51:ALA:HB1	9:I:52:PRO:HD3	1.43	0.99
2:B:59:THR:O	2:B:82:ASP:N	1.93	0.99
2:B:532:THR:HG22	2:B:536:ILE:CG1	1.93	0.99
3:C:180:LEU:HD12	3:C:180:LEU:O	1.63	0.99
5:E:80:TRP:HE3	5:E:81:PRO:HD2	1.27	0.99
8:H:51:SER:O	18:R:63:ASN:CA	2.03	0.99
1:A:616:LYS:O	1:A:620:PRO:CD	2.10	0.99
4:D:111:MET:HE1	15:O:90:ILE:HB	1.44	0.99
4:D:242:LYS:HG2	7:G:60:VAL:CG2	1.91	0.99
4:D:571:LEU:HD13	4:D:647:TYR:CE2	1.97	0.99
5:E:446:ILE:HD12	5:E:446:ILE:H	1.23	0.99
8:H:89:PHE:CE2	9:I:76:GLN:OE1	2.16	0.99
1:A:577:ALA:HB2	1:A:636:ARG:HD3	0.99	0.98
1:A:3124:ILE:HD12	1:A:3429:TRP:CD1	1.98	0.98
2:B:713:VAL:HG11	5:E:258:GLU:HG3	1.02	0.98
2:B:1511:VAL:HG22	2:B:1570:VAL:HB	1.02	0.98
2:B:1607:PRO:HG2	2:B:1946:SER:HB3	1.01	0.98
2:B:3445:LYS:HB3	2:B:3487:PRO:HB3	1.45	0.98
3:C:2723:PHE:HE1	3:C:2749:VAL:CG1	1.69	0.98
4:D:174:GLN:CA	13:M:62:GLY:CA	2.28	0.98
8:H:89:PHE:HE2	9:I:76:GLN:OE1	1.45	0.98
1:A:3042:PHE:CZ	1:A:3100:LYS:HE2	1.98	0.98
1:A:3232:ILE:HD11	1:A:3316:TRP:CZ3	1.90	0.98
2:B:598:ARG:HB2	5:E:367:LEU:CD1	1.93	0.98
1:A:598:ARG:HH22	4:D:546:VAL:CG1	1.74	0.98
1:A:1140:GLU:OE2	4:D:165:LYS:CE	2.11	0.98
2:B:582:MET:HE2	2:B:587:GLY:CA	1.89	0.98
4:D:105:MET:SD	14:N:48:GLN:CA	2.51	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:39:TRP:C	16:P:40:SER:N	2.17	0.98
1:A:1114:GLN:O	1:A:1118:LEU:HD23	1.58	0.98
2:B:595:LEU:HD23	5:E:389:TRP:CZ2	1.98	0.98
4:D:529:ASP:OD2	4:D:532:TYR:CD2	2.16	0.98
18:R:82:ALA:CA	18:R:83:ASN:N	2.27	0.98
1:A:670:LEU:HB2	1:A:692:ILE:HD11	1.00	0.98
2:B:555:LEU:HD21	2:B:625:LEU:CD2	1.69	0.98
3:C:2018:GLN:NE2	19:C:4702:ADP:H2'	1.77	0.98
3:C:2725:ALA:HA	3:C:2728:TYR:HE2	1.23	0.98
16:P:57:ILE:CB	16:P:64:ILE:O	2.12	0.98
1:A:686:VAL:CG2	1:A:731:LEU:CD2	2.34	0.98
2:B:436:PHE:CD2	2:B:463:PHE:CE1	2.52	0.98
2:B:1474:MET:HE2	2:B:1515:VAL:CG1	1.91	0.98
3:C:2734:PHE:CE2	3:C:2767:LYS:HD2	1.95	0.98
5:E:61:VAL:HG22	10:J:106:LEU:HD22	1.20	0.98
2:B:724:HIS:CD2	2:B:728:CYS:SG	2.57	0.98
3:C:2669:ILE:HD12	3:C:2847:ALA:HB3	1.44	0.98
3:C:2694:ALA:CB	3:C:2823:TYR:CB	2.42	0.98
4:D:174:GLN:HB3	12:L:51:LYS:HB2	1.44	0.98
5:E:61:VAL:HG21	10:J:106:LEU:HD13	1.44	0.98
7:G:111:ARG:O	7:G:114:VAL:HG12	1.63	0.98
10:J:36:ILE:HG12	10:J:72:PHE:HE1	1.11	0.98
14:N:84:GLN:HG3	15:O:61:GLU:HA	1.42	0.98
1:A:760:ASP:OD2	1:A:764:ARG:HG2	1.61	0.98
2:B:532:THR:H	2:B:536:ILE:HD12	1.26	0.98
2:B:957:GLN:HA	3:C:220:TRP:HH2	1.01	0.98
2:B:1507:LYS:HD3	2:B:1571:GLU:OE1	1.64	0.98
1:A:909:MET:HE1	1:A:955:ILE:HD11	1.45	0.98
1:A:1029:GLU:HA	1:A:1088:TRP:CZ2	1.98	0.98
3:C:165:GLY:CA	3:C:174:PHE:HE2	1.76	0.98
4:D:107:VAL:HA	15:O:98:ALA:HA	1.45	0.98
5:E:61:VAL:CG1	10:J:95:PHE:HZ	1.77	0.98
14:N:84:GLN:NE2	15:O:61:GLU:HB2	1.78	0.98
2:B:575:ASN:CA	5:E:481:GLN:HE22	1.76	0.98
2:B:798:ASN:CB	2:B:874:ALA:CB	2.31	0.98
2:B:3230:ALA:HB3	2:B:3342:ASN:CG	1.77	0.98
4:D:114:ASP:OD1	5:E:43:ARG:NH1	1.97	0.98
4:D:262:HIS:HA	5:E:125:GLN:HE22	1.27	0.98
2:B:1468:ALA:O	2:B:1469:SER:OG	1.82	0.97
3:C:2725:ALA:HA	3:C:2728:TYR:CE2	1.98	0.97
4:D:517:ILE:CD1	4:D:527:ILE:CG2	2.41	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:74:ILE:HD12	6:F:77:ILE:HD11	1.44	0.97
11:K:77:PHE:CD1	11:K:90:TYR:HB3	1.98	0.97
1:A:550:HIS:CB	4:D:654:ASN:OD1	2.12	0.97
3:C:2613:THR:HG21	3:C:3176:LEU:HD22	1.46	0.97
6:F:14:LEU:HD21	6:F:23:TYR:HB3	1.00	0.97
10:J:38:GLU:OE2	15:O:29:PHE:CE2	2.15	0.97
10:J:48:LEU:HD11	10:J:100:ILE:CD1	1.91	0.97
1:A:686:VAL:HG21	1:A:731:LEU:HD23	1.00	0.97
1:A:1513:LYS:HD3	1:A:1578:ASN:HD21	1.22	0.97
1:A:1522:GLU:CG	1:A:1523:PRO:HD3	1.94	0.97
1:A:3298:ILE:C	1:A:3343:HIS:CE1	2.33	0.97
6:F:14:LEU:CD2	6:F:23:TYR:CD2	2.47	0.97
1:A:40:LEU:CA	1:A:41:LEU:N	2.27	0.97
1:A:1013:VAL:HG13	1:A:1076:LEU:CD1	1.93	0.97
2:B:725:ILE:CD1	2:B:777:PHE:HA	1.93	0.97
2:B:1511:VAL:CA	2:B:1570:VAL:HG11	1.93	0.97
2:B:3300:GLU:OE2	2:B:3354:LYS:HD2	1.64	0.97
3:C:2734:PHE:HZ	3:C:2767:LYS:HD2	1.21	0.97
4:D:89:TYR:CD2	11:K:56:PRO:HG3	1.98	0.97
4:D:251:MET:HB2	7:G:136:MET:HE2	1.44	0.97
5:E:420:THR:HG21	5:E:472:SER:O	1.63	0.97
6:F:11:LEU:HD22	6:F:23:TYR:CD1	1.99	0.97
8:H:65:PHE:HA	9:I:80:GLY:HA3	1.41	0.97
9:I:78:ILE:HD11	9:I:106:LEU:HD23	1.00	0.97
14:N:85:ILE:HG22	14:N:98:ILE:HD12	1.46	0.97
1:A:590:GLN:CB	1:A:609:TRP:CZ2	2.47	0.97
1:A:3335:TRP:CH2	1:A:3339:ILE:HD11	1.99	0.97
2:B:409:SER:HA	2:B:413:PHE:HD1	1.25	0.97
2:B:444:LEU:N	5:E:515:LYS:HG2	1.71	0.97
2:B:2304:GLU:OE1	20:B:5601:ATP:O3G	1.82	0.97
6:F:35:ARG:NE	6:F:41:SER:HB2	1.79	0.97
1:A:1633:ALA:HB2	1:A:1839:LEU:O	1.58	0.97
2:B:1234:GLU:HB2	2:B:1308:LEU:CB	1.94	0.97
2:B:1456:PHE:CE1	2:B:1467:PHE:CE1	2.53	0.97
2:B:1456:PHE:CD2	2:B:1569:VAL:CG1	2.48	0.97
3:C:2721:GLU:HB2	3:C:2803:MET:HE2	1.44	0.97
1:A:155:GLY:HA3	2:B:168:ILE:N	1.79	0.97
1:A:891:PHE:CD1	1:A:972:TRP:CZ3	2.51	0.97
2:B:581:ASN:ND2	5:E:184:MET:CE	2.28	0.97
2:B:3150:VAL:HG12	2:B:3423:VAL:HG22	1.43	0.97
4:D:236:MET:CB	7:G:143:PHE:HE2	1.69	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:78:ILE:CD1	9:I:106:LEU:HD23	1.94	0.97
2:B:673:PHE:CZ	2:B:677:LEU:HB3	2.00	0.97
2:B:3118:TYR:CD2	2:B:3455:SER:OG	2.18	0.97
3:C:2711:SER:HB3	3:C:2751:TRP:CH2	1.99	0.97
3:C:2727:ILE:CD1	3:C:2745:LYS:HB3	1.94	0.97
4:D:360:ALA:CB	5:E:133:PHE:HZ	1.77	0.97
1:A:15:THR:HA	2:B:19:SER:HA	1.43	0.97
1:A:871:LEU:HD23	1:A:875:VAL:HG13	1.46	0.97
1:A:3443:LEU:HD12	1:A:3493:PHE:HZ	0.82	0.97
4:D:297:LYS:HZ3	4:D:328:LEU:CB	1.77	0.97
1:A:971:ASN:HB3	1:A:983:ALA:HA	1.45	0.96
1:A:1433:LEU:CD1	1:A:1490:PHE:CD1	2.47	0.96
2:B:445:GLY:HA2	5:E:511:ARG:CZ	1.93	0.96
2:B:798:ASN:HB3	2:B:874:ALA:HB1	0.99	0.96
5:E:70:ASP:CG	9:I:64:LYS:CE	2.33	0.96
1:A:121:GLY:H	2:B:106:LYS:HA	1.27	0.96
1:A:3212:VAL:CG2	1:A:3338:ALA:HB3	1.95	0.96
1:A:3335:TRP:CZ3	1:A:3339:ILE:CD1	2.47	0.96
2:B:511:PHE:CE2	2:B:547:LEU:HD21	1.99	0.96
2:B:1058:LYS:CG	2:B:1166:GLU:CB	2.21	0.96
2:B:1456:PHE:HE1	2:B:1458:PHE:CZ	1.82	0.96
2:B:3153:LEU:HD13	2:B:3707:LEU:HD12	1.42	0.96
2:B:3261:ILE:O	2:B:3306:ILE:CG2	2.13	0.96
3:C:136:ALA:CB	3:C:168:ASN:OD1	2.13	0.96
3:C:165:GLY:C	3:C:174:PHE:CZ	2.37	0.96
4:D:208:TYR:CE1	9:I:100:ASN:HB2	1.99	0.96
1:A:156:VAL:N	2:B:167:GLN:O	1.99	0.96
2:B:1317:LEU:CA	16:P:61:GLU:HA	1.95	0.96
14:N:72:ILE:HD13	15:O:97:ILE:CD1	1.94	0.96
1:A:1536:LEU:H	1:A:1536:LEU:HD12	1.27	0.96
2:B:736:LEU:HA	2:B:855:SER:HB2	1.47	0.96
2:B:794:LEU:CA	2:B:797:PHE:CD2	2.48	0.96
2:B:1174:HIS:O	2:B:1178:ILE:HG13	1.64	0.96
3:C:2740:ILE:HG13	3:C:2744:LYS:CB	1.96	0.96
7:G:58:SER:C	7:G:59:GLU:N	2.19	0.96
10:J:19:LYS:HB2	10:J:28:TRP:HB2	1.43	0.96
1:A:614:PHE:CD1	1:A:644:LEU:CD2	2.47	0.96
2:B:3164:VAL:HG11	2:B:3409:ALA:HB2	1.45	0.96
10:J:75:TYR:CD1	11:K:92:LYS:NZ	2.34	0.96
3:C:2772:LYS:NZ	3:C:2776:ASP:OD2	1.98	0.96
14:N:89:GLN:CG	14:N:94:ASP:HB2	1.95	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3234:LEU:CD1	2:B:3336:LEU:HD23	1.95	0.96
3:C:132:GLU:OE1	3:C:133:PRO:HD2	1.63	0.96
1:A:2496:GLY:HA2	19:A:4701:ADP:O3B	1.64	0.96
2:B:579:PHE:CZ	5:E:369:PRO:HG2	2.01	0.96
2:B:679:ARG:CB	5:E:186:PHE:HE2	1.75	0.96
2:B:1559:MET:HG3	2:B:1577:ARG:HH22	1.28	0.96
2:B:3140:LEU:CB	2:B:3433:TRP:HE3	1.72	0.96
4:D:512:HIS:CD2	4:D:513:PRO:CD	2.49	0.96
4:D:563:MET:O	4:D:564:ASP:OD1	1.82	0.96
5:E:395:VAL:HG23	5:E:402:ILE:HD12	1.32	0.96
6:F:56:TRP:CE3	6:F:74:ILE:HD11	2.00	0.96
1:A:807:GLU:CG	1:A:811:LYS:HE3	1.94	0.96
1:A:1012:LYS:CD	1:A:1071:ILE:HD12	1.94	0.96
1:A:1012:LYS:HZ3	1:A:1072:GLY:N	1.53	0.96
2:B:443:GLU:CD	5:E:514:ARG:NH1	2.18	0.96
2:B:729:LEU:HD23	2:B:734:GLU:HG2	1.46	0.96
2:B:1127:ASN:CB	2:B:1128:PRO:CD	2.43	0.96
3:C:36:PHE:HB3	3:C:57:VAL:HG22	1.48	0.96
3:C:2018:GLN:HE21	19:C:4702:ADP:C2'	1.78	0.96
3:C:2711:SER:O	3:C:2751:TRP:HZ2	1.48	0.96
5:E:310:LEU:HD11	5:E:358:ARG:NH2	1.78	0.96
1:A:853:VAL:CG1	5:E:206:ASN:CG	2.34	0.96
2:B:1102:LEU:H	2:B:1163:ARG:HH22	1.13	0.96
10:J:74:PRO:CG	12:L:102:ARG:HD3	1.93	0.96
1:A:21:LEU:O	1:A:25:ASP:N	1.99	0.95
1:A:737:TYR:HE1	1:A:759:LEU:HD23	0.94	0.95
1:A:872:ASP:OD1	1:A:873:PRO:HD2	1.64	0.95
1:A:1020:PHE:HA	1:A:1023:PHE:HE2	1.25	0.95
1:A:1028:LYS:O	1:A:1088:TRP:HH2	1.46	0.95
1:A:3106:LYS:HG3	1:A:3443:LEU:HD21	1.06	0.95
1:A:3229:PRO:HB2	1:A:3233:ILE:HG21	1.46	0.95
1:A:3335:TRP:CH2	1:A:3339:ILE:CD1	2.49	0.95
2:B:897:SER:HB3	2:B:898:PRO:CD	1.95	0.95
3:C:2581:LEU:CD1	3:C:2936:SER:OG	2.13	0.95
4:D:552:PRO:CD	4:D:595:PHE:HD2	1.64	0.95
1:A:8:LYS:CB	1:A:109:SER:CA	2.44	0.95
2:B:533:ARG:CG	2:B:534:PRO:HD3	1.96	0.95
2:B:444:LEU:CD2	2:B:526:ASN:ND2	2.23	0.95
4:D:115:TYR:CZ	14:N:78:HIS:CD2	2.54	0.95
4:D:398:PRO:HD2	4:D:419:SER:HB2	0.97	0.95
10:J:38:GLU:CD	15:O:29:PHE:CZ	2.38	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:15:THR:CA	2:B:19:SER:HA	1.96	0.95
1:A:972:TRP:HZ3	1:A:985:PHE:CZ	1.60	0.95
1:A:1143:ARG:CD	4:D:169:ASN:HD21	1.79	0.95
1:A:3106:LYS:HG2	1:A:3443:LEU:HD11	0.98	0.95
2:B:5:SER:CB	2:B:47:ASP:CB	2.44	0.95
2:B:794:LEU:CA	2:B:797:PHE:HE2	1.78	0.95
2:B:3314:ILE:CG1	2:B:3321:PHE:HE2	1.79	0.95
5:E:16:ASN:HB2	15:O:132:GLU:C	1.85	0.95
1:A:1101:HIS:HA	1:A:1163:LEU:HD11	1.48	0.95
1:A:3290:LEU:HD22	1:A:3335:TRP:HZ2	1.29	0.95
2:B:713:VAL:HG12	5:E:258:GLU:HG3	0.96	0.95
2:B:3136:TYR:O	2:B:3433:TRP:CZ3	2.19	0.95
4:D:199:ILE:HG21	9:I:104:ALA:CB	1.96	0.95
8:H:51:SER:OG	18:R:63:ASN:O	1.84	0.95
3:C:159:TYR:HD1	3:C:179:VAL:CG2	1.80	0.95
4:D:567:GLN:CB	4:D:578:LYS:HD2	1.95	0.95
4:D:569:TYR:HH	4:D:578:LYS:HD3	1.18	0.95
5:E:56:LEU:HA	10:J:91:ASN:HA	1.47	0.95
5:E:70:ASP:CG	9:I:64:LYS:HE2	1.87	0.95
6:F:84:SER:HB3	6:F:106:ALA:HB2	1.47	0.95
8:H:65:PHE:CB	9:I:80:GLY:HA3	1.96	0.95
14:N:84:GLN:HB2	15:O:64:VAL:HG21	1.46	0.95
2:B:433:ILE:HA	2:B:463:PHE:CZ	2.02	0.95
4:D:517:ILE:HD11	4:D:527:ILE:CG2	1.97	0.95
12:L:77:ILE:HG23	13:M:63:SER:HB3	1.48	0.95
1:A:935:VAL:HG21	1:A:1017:LEU:HD21	1.45	0.95
1:A:1632:ASP:CB	1:A:1892:PHE:CD1	2.50	0.95
1:A:3230:LEU:O	1:A:3233:ILE:CG2	2.15	0.95
1:A:3249:ILE:HG13	1:A:3273:TYR:CA	1.90	0.95
2:B:581:ASN:ND2	5:E:184:MET:HE1	1.80	0.95
2:B:3301:ASN:CG	2:B:3351:LYS:HZ3	1.68	0.95
10:J:25:ARG:O	10:J:99:TYR:N	1.99	0.95
1:A:3106:LYS:HG3	1:A:3443:LEU:HD22	1.45	0.95
4:D:590:LEU:HD23	4:D:604:VAL:HG11	1.48	0.95
5:E:53:ILE:HD13	12:L:81:ASN:ND2	1.67	0.95
5:E:384:LEU:HG	5:E:417:TRP:NE1	1.81	0.95
1:A:1069:TYR:CD1	1:A:1078:THR:HG21	2.02	0.95
1:A:3251:ILE:HD11	17:Q:83:VAL:N	1.81	0.95
2:B:555:LEU:HD23	2:B:625:LEU:CG	1.97	0.95
2:B:891:ILE:HD11	2:B:897:SER:O	1.66	0.95
2:B:1208:LYS:HA	2:B:1208:LYS:HE3	1.45	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:421:GLY:HA3	4:D:441:LEU:HD12	1.45	0.95
5:E:48:ILE:HG12	12:L:88:PHE:CZ	2.02	0.95
1:A:3236:ILE:CG2	1:A:3333:LEU:HD23	1.87	0.94
2:B:897:SER:CB	2:B:898:PRO:HD2	1.95	0.94
3:C:2734:PHE:CZ	3:C:2767:LYS:CD	2.47	0.94
4:D:261:TYR:CE1	5:E:126:ILE:CD1	2.49	0.94
5:E:100:GLU:HB3	5:E:105:PHE:HD2	0.84	0.94
8:H:43:THR:CA	9:I:86:ASP:OD2	2.15	0.94
2:B:789:LYS:HE3	2:B:839:LEU:HD22	1.45	0.94
2:B:935:ASN:HB3	3:C:283:THR:CG2	1.97	0.94
2:B:1456:PHE:CE2	2:B:1569:VAL:CG1	2.50	0.94
4:D:111:MET:CE	15:O:90:ILE:HG21	1.93	0.94
2:B:682:LYS:HE2	5:E:186:PHE:CE1	2.00	0.94
2:B:2191:THR:OG1	20:B:5601:ATP:O1A	1.84	0.94
3:C:2793:LEU:C	3:C:2796:PRO:HD2	1.80	0.94
4:D:297:LYS:HZ2	4:D:328:LEU:HB2	1.24	0.94
8:H:64:ASN:O	9:I:81:GLU:N	2.00	0.94
12:L:86:LEU:HD12	13:M:54:ASN:HB3	1.49	0.94
1:A:688:PHE:HE1	1:A:693:MET:HG2	1.28	0.94
1:A:1126:VAL:HB	1:A:1201:TYR:HH	1.24	0.94
2:B:871:ILE:CD1	2:B:944:ILE:HD11	1.98	0.94
2:B:3210:SER:HB2	2:B:3364:ASN:OD1	1.67	0.94
2:B:419:PHE:HB2	2:B:480:ILE:HD12	1.49	0.94
5:E:50:LEU:HD13	12:L:95:PHE:CB	1.96	0.94
1:A:913:VAL:HG11	1:A:1005:SER:HB2	1.47	0.94
4:D:90:ASP:OD1	13:M:32:LYS:CA	2.15	0.94
12:L:9:GLY:O	12:L:13:GLU:HG3	1.67	0.94
1:A:1273:PHE:C	4:D:166:PHE:CZ	2.40	0.94
4:D:567:GLN:OE1	4:D:578:LYS:CD	2.15	0.94
1:A:870:PRO:C	1:A:871:LEU:HD13	1.88	0.94
1:A:3236:ILE:HG23	1:A:3333:LEU:HA	1.50	0.94
2:B:409:SER:HB3	2:B:413:PHE:CE1	2.03	0.94
2:B:1004:SER:HG	2:B:1094:TRP:HH2	0.98	0.94
3:C:2742:LYS:HE3	3:C:2785:VAL:HG21	1.50	0.94
5:E:164:VAL:HG22	5:E:181:TYR:HE1	1.24	0.94
6:F:11:LEU:HD22	6:F:23:TYR:HE1	1.18	0.94
7:G:118:ASP:OD1	9:I:12:ILE:HD13	1.67	0.94
1:A:50:LEU:O	1:A:102:ALA:HB3	1.65	0.94
2:B:528:GLU:OE1	5:E:526:GLN:NE2	2.01	0.94
2:B:575:ASN:H	5:E:481:GLN:HE22	1.15	0.94
2:B:583:PRO:HB3	2:B:683:GLU:HG2	1.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1467:PHE:HE2	2:B:1560:MET:SD	1.81	0.94
2:B:1559:MET:CG	2:B:1577:ARG:NH2	2.29	0.94
4:D:212:ILE:HD11	9:I:19:MET:CE	1.93	0.94
5:E:394:TRP:CE2	5:E:401:PRO:HB3	2.03	0.94
8:H:65:PHE:CA	9:I:80:GLY:HA3	1.98	0.94
2:B:436:PHE:HE1	2:B:499:LEU:HD23	1.23	0.94
2:B:1531:ILE:CD1	2:B:1595:LEU:HD11	1.96	0.94
3:C:2592:LYS:HD2	3:C:2928:VAL:CG2	1.97	0.94
10:J:38:GLU:OE1	15:O:29:PHE:CG	2.21	0.94
1:A:970:TYR:HA	1:A:983:ALA:O	1.68	0.93
1:A:1020:PHE:HZ	1:A:1069:TYR:CD1	1.86	0.93
1:A:1525:PHE:HB2	1:A:1541:PHE:CE2	2.03	0.93
1:A:3121:LEU:CG	1:A:3429:TRP:HB3	1.97	0.93
4:D:184:GLY:CA	11:K:69:TYR:CD1	2.51	0.93
5:E:22:ASP:CB	14:N:91:THR:HG23	1.95	0.93
5:E:310:LEU:CD1	5:E:358:ARG:CZ	2.46	0.93
8:H:56:THR:HG23	9:I:88:THR:OG1	1.67	0.93
1:A:1069:TYR:CE1	1:A:1078:THR:HG21	2.02	0.93
3:C:53:PRO:HG2	3:C:81:PRO:HB2	1.47	0.93
6:F:14:LEU:HD23	6:F:23:TYR:CB	1.90	0.93
1:A:960:THR:HG21	18:R:117:VAL:CB	1.99	0.93
1:A:3261:LYS:HG2	1:A:3262:GLU:H	1.33	0.93
1:A:3442:LYS:HB3	1:A:3485:THR:CG2	1.97	0.93
2:B:861:ASP:CG	3:C:170:GLN:CB	2.23	0.93
3:C:2673:VAL:C	3:C:2841:THR:HG22	1.87	0.93
3:C:2701:ILE:CG1	3:C:2704:LYS:HD2	1.98	0.93
3:C:2740:ILE:HB	3:C:2744:LYS:O	1.68	0.93
9:I:77:CYS:HB2	9:I:107:ILE:HG22	1.50	0.93
1:A:505:THR:O	1:A:509:LYS:CB	2.16	0.93
1:A:1012:LYS:CB	1:A:1071:ILE:HD13	1.98	0.93
1:A:1500:THR:HG23	1:A:1566:GLN:HE22	1.31	0.93
1:A:3222:GLU:CB	1:A:3328:ALA:HB2	1.98	0.93
1:A:3297:SER:O	1:A:3343:HIS:ND1	2.01	0.93
2:B:1531:ILE:CD1	2:B:1618:LEU:HD22	1.98	0.93
1:A:755:HIS:HE1	1:A:869:TYR:CD2	1.68	0.93
1:A:1525:PHE:CB	1:A:1541:PHE:CD2	2.21	0.93
1:A:3236:ILE:HG23	1:A:3333:LEU:CD2	1.96	0.93
2:B:789:LYS:CG	2:B:839:LEU:HD11	1.98	0.93
2:B:1458:PHE:HB3	2:B:1465:LYS:HB3	1.50	0.93
2:B:3231:VAL:HG23	2:B:3342:ASN:HB3	1.50	0.93
3:C:2740:ILE:HD12	3:C:2744:LYS:HD3	1.50	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:91:TYR:HE2	13:M:80:LEU:HB2	1.17	0.93
4:D:172:GLU:CA	13:M:64:HIS:HB2	1.97	0.93
4:D:367:LEU:CG	4:D:371:THR:HG1	1.68	0.93
5:E:99:ILE:HD11	6:F:31:ILE:HD11	1.49	0.93
8:H:64:ASN:CB	9:I:81:GLU:HB3	1.98	0.93
1:A:1444:GLN:HE21	1:A:1560:LYS:HG2	1.33	0.93
3:C:2673:VAL:CA	3:C:2841:THR:HG22	1.98	0.93
4:D:105:MET:HE1	14:N:48:GLN:N	1.82	0.93
9:I:81:GLU:OE2	9:I:102:ASN:HB2	1.66	0.93
10:J:95:PHE:CE2	10:J:106:LEU:HD11	2.02	0.93
1:A:596:LEU:CD2	1:A:602:PRO:HA	1.99	0.93
1:A:766:GLY:HA3	1:A:780:TYR:CE1	2.03	0.93
2:B:900:PHE:CE1	2:B:933:TRP:CH2	2.56	0.93
2:B:1456:PHE:CE1	2:B:1467:PHE:HE1	1.85	0.93
3:C:136:ALA:HB1	3:C:168:ASN:OD1	1.69	0.93
3:C:2720:PRO:C	3:C:2798:PHE:CZ	2.42	0.93
5:E:26:ARG:NH2	14:N:96:SER:O	2.00	0.93
3:C:143:PRO:CD	3:C:187:TRP:CD1	2.52	0.93
3:C:2592:LYS:HB3	3:C:2924:MET:SD	2.08	0.93
5:E:99:ILE:CG2	6:F:33:LEU:HD11	1.98	0.93
5:E:259:ASN:HD21	5:E:299:GLY:HA3	1.27	0.93
9:I:81:GLU:OE1	9:I:102:ASN:ND2	2.00	0.93
13:M:7:VAL:HG12	13:M:75:PHE:HB3	1.50	0.93
17:Q:43:GLY:CA	17:Q:67:SER:CB	2.45	0.93
1:A:1100:LEU:HD21	1:A:1159:MET:HE3	1.49	0.93
1:A:1444:GLN:CG	1:A:1560:LYS:HA	1.99	0.93
1:A:3269:LEU:HD21	1:A:3312:GLN:OE1	1.69	0.93
3:C:2589:LEU:HB2	3:C:2928:VAL:HG11	1.50	0.93
4:D:543:MET:SD	4:D:563:MET:HG3	2.09	0.93
5:E:100:GLU:HB3	5:E:105:PHE:CE2	2.04	0.93
6:F:81:THR:HG21	7:G:114:VAL:HG21	1.30	0.93
9:I:81:GLU:CD	9:I:102:ASN:HB2	1.90	0.93
1:A:3257:VAL:CG1	1:A:3266:VAL:CG1	2.26	0.93
3:C:2581:LEU:HD12	3:C:2936:SER:OG	1.69	0.93
3:C:2581:LEU:HD12	3:C:2936:SER:CB	1.98	0.93
1:A:3293:PHE:HE1	1:A:3335:TRP:CZ2	1.87	0.92
2:B:59:THR:O	2:B:81:ILE:HA	1.69	0.92
2:B:637:GLU:O	2:B:641:ILE:HG22	1.67	0.92
3:C:10:LEU:HD21	3:C:65:ASN:C	1.88	0.92
7:G:119:PRO:CG	9:I:12:ILE:HG21	1.97	0.92
1:A:737:TYR:CE1	1:A:759:LEU:CD2	2.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1487:VAL:CG2	1:A:1490:PHE:CE1	2.51	0.92
3:C:2585:PHE:HE1	3:C:2929:LEU:CA	1.82	0.92
3:C:2673:VAL:O	3:C:2841:THR:CG2	2.18	0.92
5:E:43:ARG:O	12:L:90:ALA:HB2	1.70	0.92
1:A:1051:GLN:NE2	1:A:1096:TYR:CZ	2.36	0.92
1:A:3446:ASN:CG	1:A:3488:LEU:CD1	2.33	0.92
2:B:3118:TYR:HD2	2:B:3455:SER:HG	0.93	0.92
3:C:2585:PHE:CE1	3:C:2929:LEU:CA	2.52	0.92
8:H:67:SER:CA	9:I:78:ILE:HG22	1.99	0.92
10:J:26:VAL:CG2	10:J:98:PHE:HB3	1.98	0.92
10:J:26:VAL:HG23	10:J:98:PHE:CA	2.00	0.92
14:N:115:MET:HE2	15:O:129:CYS:HB2	1.52	0.92
16:P:23:TYR:HA	16:P:31:ILE:CB	1.98	0.92
1:A:5:LYS:CB	1:A:48:GLU:CB	2.46	0.92
1:A:14:LYS:C	2:B:19:SER:O	2.08	0.92
2:B:575:ASN:N	5:E:481:GLN:NE2	2.17	0.92
3:C:222:PHE:O	3:C:282:ARG:NH1	2.01	0.92
4:D:212:ILE:HD13	9:I:19:MET:CE	1.90	0.92
6:F:81:THR:HG22	7:G:114:VAL:HG21	1.51	0.92
8:H:66:GLY:HA2	9:I:56:ILE:HG21	1.51	0.92
1:A:598:ARG:HH12	4:D:546:VAL:HG12	1.32	0.92
2:B:1528:LEU:HD21	2:B:1591:CYS:CB	2.00	0.92
3:C:2723:PHE:CZ	3:C:2749:VAL:CG1	2.53	0.92
3:C:2739:GLU:H	3:C:2746:PRO:HB3	1.33	0.92
5:E:61:VAL:HG13	10:J:95:PHE:CZ	2.04	0.92
5:E:22:ASP:HB3	14:N:91:THR:CG2	1.99	0.92
2:B:1456:PHE:HE1	2:B:1563:VAL:HG12	1.20	0.92
2:B:2333:PRO:HB2	20:B:5601:ATP:C2	2.05	0.92
3:C:2927:ASP:CG	3:C:2974:ILE:HD13	1.89	0.92
4:D:174:GLN:HE21	12:L:51:LYS:H	1.04	0.92
5:E:61:VAL:HG13	10:J:95:PHE:HZ	1.32	0.92
4:D:70:MET:HE1	5:E:13:GLU:HB3	1.49	0.92
4:D:172:GLU:OE1	12:L:55:LEU:CD1	2.16	0.92
18:R:105:THR:O	18:R:107:SER:N	2.02	0.92
1:A:755:HIS:HE1	1:A:869:TYR:HD2	1.02	0.92
1:A:872:ASP:O	1:A:875:VAL:HG12	1.68	0.92
1:A:3117:PHE:CD2	1:A:3429:TRP:CZ3	2.57	0.92
2:B:2333:PRO:HB2	20:B:5601:ATP:C6	2.04	0.92
10:J:32:CYS:CB	10:J:96:ILE:CG1	2.47	0.92
10:J:48:LEU:CD1	10:J:100:ILE:HD12	1.97	0.92
14:N:25:PHE:HZ	14:N:103:ILE:CD1	1.82	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1511:TRP:HA	1:A:1574:LEU:HD13	1.52	0.92
2:B:3228:GLU:HG3	2:B:3346:PHE:HE1	0.77	0.92
4:D:105:MET:CE	14:N:47:THR:C	2.38	0.92
4:D:360:ALA:HB3	5:E:133:PHE:HZ	1.19	0.92
1:A:1143:ARG:CZ	4:D:169:ASN:HD21	1.83	0.91
2:B:861:ASP:HA	2:B:864:ASN:ND2	1.84	0.91
4:D:207:ALA:HB3	9:I:24:ILE:HD13	1.50	0.91
4:D:241:PHE:HZ	7:G:78:ILE:HD12	1.32	0.91
8:H:57:TRP:HZ3	8:H:88:LEU:HD13	1.35	0.91
1:A:600:MET:CE	1:A:697:ARG:NH1	2.33	0.91
2:B:532:THR:N	2:B:536:ILE:HD12	1.85	0.91
1:A:155:GLY:C	2:B:167:GLN:O	2.09	0.91
1:A:723:PHE:HD1	1:A:772:TRP:CZ2	1.88	0.91
2:B:861:ASP:O	2:B:864:ASN:OD1	1.86	0.91
2:B:970:ALA:HA	3:C:343:ASN:O	1.70	0.91
4:D:266:TYR:HH	5:E:121:TYR:HB3	1.26	0.91
4:D:543:MET:HE3	4:D:563:MET:HE2	0.94	0.91
5:E:46:ASN:CG	12:L:88:PHE:HE1	1.71	0.91
5:E:48:ILE:H	12:L:88:PHE:HE2	1.15	0.91
7:G:120:THR:HG22	9:I:12:ILE:CG2	1.97	0.91
2:B:59:THR:CB	2:B:82:ASP:O	2.19	0.91
3:C:2774:VAL:HG12	3:C:2780:VAL:CG2	2.00	0.91
5:E:48:ILE:HG21	12:L:23:PHE:CD2	2.05	0.91
1:A:670:LEU:CA	1:A:692:ILE:HD11	2.00	0.91
1:A:1027:CYS:SG	1:A:1027:CYS:O	2.29	0.91
1:A:3110:LEU:HD11	1:A:3443:LEU:CD2	2.01	0.91
1:A:3317:PHE:HD1	1:A:3333:LEU:HD22	1.34	0.91
2:B:789:LYS:HG2	2:B:839:LEU:CD1	2.00	0.91
4:D:248:MET:CE	7:G:147:VAL:HB	2.01	0.91
14:N:66:LYS:HB2	14:N:115:MET:HB2	1.52	0.91
2:B:436:PHE:HE1	2:B:499:LEU:CD2	1.57	0.91
2:B:518:TYR:HE1	5:E:407:TYR:HE2	0.93	0.91
3:C:214:LEU:CD1	3:C:232:TYR:O	2.19	0.91
14:N:70:THR:HG22	15:O:99:SER:HB2	1.50	0.91
1:A:670:LEU:CB	1:A:692:ILE:CD1	2.49	0.91
1:A:2500:THR:HG1	21:A:5002:MG:MG	0.64	0.91
2:B:736:LEU:O	2:B:855:SER:OG	1.89	0.91
2:B:3302:ILE:HG22	2:B:3303:GLU:N	1.80	0.91
5:E:261:HIS:HD1	5:E:283:SER:HG	1.12	0.91
4:D:543:MET:CE	4:D:563:MET:CE	2.41	0.91
7:G:119:PRO:CD	9:I:12:ILE:HD13	1.97	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:32:CYS:HB2	10:J:96:ILE:CG1	1.99	0.91
1:A:1638:THR:CB	1:A:1655:GLN:CG	2.48	0.91
5:E:20:PHE:CZ	15:O:80:LYS:HG2	2.04	0.91
9:I:19:MET:HB2	9:I:22:LYS:HG2	1.52	0.91
14:N:72:ILE:HG12	15:O:97:ILE:HG23	1.51	0.91
1:A:590:GLN:HB2	1:A:609:TRP:HZ2	1.30	0.91
1:A:614:PHE:CE1	1:A:644:LEU:HD22	2.05	0.91
1:A:3110:LEU:HD12	1:A:3443:LEU:HD23	1.53	0.91
1:A:3251:ILE:HD11	17:Q:83:VAL:H	1.30	0.91
2:B:957:GLN:CD	3:C:164:HIS:CE1	2.43	0.91
2:B:1237:ARG:HD3	2:B:1260:ALA:HA	1.51	0.91
2:B:1381:ALA:HB1	2:B:1431:VAL:HG21	1.50	0.91
3:C:2701:ILE:CD1	3:C:2704:LYS:CG	2.46	0.91
5:E:23:THR:HG22	14:N:88:TYR:HA	1.53	0.91
5:E:112:LEU:CD2	6:F:97:MET:HG2	2.01	0.91
8:H:65:PHE:CA	9:I:80:GLY:CA	2.48	0.91
1:A:1157:GLN:HG2	1:A:1180:ARG:HH22	1.34	0.90
2:B:444:LEU:HA	5:E:515:LYS:HG2	1.43	0.90
2:B:1127:ASN:CB	2:B:1128:PRO:HD2	2.02	0.90
3:C:143:PRO:HG3	3:C:187:TRP:CE2	2.06	0.90
4:D:172:GLU:HG3	12:L:51:LYS:CE	2.01	0.90
4:D:177:ASN:CG	13:M:60:ASN:HB2	1.91	0.90
5:E:112:LEU:HD22	6:F:97:MET:SD	2.11	0.90
1:A:1012:LYS:CB	1:A:1071:ILE:HG21	2.00	0.90
2:B:1567:PRO:CD	3:C:2275:LYS:HE3	2.00	0.90
2:B:2191:THR:OG1	20:B:5601:ATP:PA	2.28	0.90
4:D:75:LEU:HD12	15:O:102:LEU:HD12	1.52	0.90
5:E:385:SER:OG	5:E:394:TRP:HZ3	1.55	0.90
6:F:19:GLY:O	6:F:101:GLN:HB2	1.72	0.90
1:A:728:ASN:HD21	4:D:396:THR:HG22	1.17	0.90
1:A:1540:GLN:O	1:A:1544:ILE:CG1	2.18	0.90
2:B:798:ASN:HB3	2:B:874:ALA:HB2	1.53	0.90
2:B:970:ALA:CB	3:C:345:TRP:CE3	2.54	0.90
3:C:268:ILE:HD13	3:C:301:TRP:CZ2	2.07	0.90
6:F:14:LEU:CD2	6:F:23:TYR:CG	2.53	0.90
10:J:34:ASP:HB2	15:O:31:PRO:HG3	0.91	0.90
1:A:332:PRO:HA	1:A:380:ARG:CB	2.01	0.90
1:A:806:ILE:HD13	1:A:890:TYR:CE2	2.07	0.90
2:B:762:ILE:HA	2:B:765:PHE:HB3	1.54	0.90
2:B:888:PRO:O	2:B:891:ILE:HG22	1.72	0.90
2:B:3139:GLY:CA	2:B:3433:TRP:HH2	1.68	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:45:ARG:CB	15:O:63:LEU:CD1	2.49	0.90
1:A:760:ASP:O	1:A:764:ARG:HG2	1.70	0.90
1:A:1642:ALA:CB	1:A:1652:GLN:HB2	2.00	0.90
1:A:3251:ILE:HD13	17:Q:61:SER:HA	1.37	0.90
2:B:1109:THR:O	2:B:1113:LEU:CG	2.15	0.90
3:C:24:HIS:NE2	3:C:325:SER:CB	2.34	0.90
3:C:2730:LEU:HD23	3:C:2738:ILE:HD13	1.52	0.90
5:E:384:LEU:HD12	5:E:384:LEU:O	1.70	0.90
8:H:60:ILE:HG12	9:I:85:TYR:HB3	1.51	0.90
8:H:76:TYR:CE1	8:H:87:LEU:CD1	2.55	0.90
12:L:76:CYS:HB2	12:L:107:LEU:HD13	1.54	0.90
2:B:518:TYR:CD2	5:E:404:ARG:NH1	2.36	0.90
2:B:3251:GLY:HA3	2:B:3329:GLN:OE1	1.71	0.90
8:H:16:MET:HE2	8:H:77:ILE:HD12	1.53	0.90
1:A:3194:ALA:CB	1:A:3356:VAL:HG22	2.01	0.90
2:B:682:LYS:NZ	5:E:186:PHE:HD1	1.41	0.90
2:B:935:ASN:HB3	3:C:283:THR:HG21	1.50	0.90
3:C:99:GLY:HA3	3:C:149:HIS:HE1	1.33	0.90
5:E:58:GLU:CB	10:J:89:VAL:HA	2.01	0.90
6:F:51:LEU:HD21	7:G:116:ASP:CB	2.02	0.90
2:B:1467:PHE:HZ	2:B:1563:VAL:HG11	1.34	0.90
2:B:1511:VAL:CG1	2:B:1570:VAL:CG2	2.35	0.90
2:B:1567:PRO:HD2	3:C:2275:LYS:HE3	1.54	0.90
5:E:112:LEU:HD21	6:F:97:MET:SD	2.09	0.90
1:A:1020:PHE:HZ	1:A:1069:TYR:CZ	1.81	0.90
1:A:1274:GLY:N	4:D:166:PHE:CE1	2.39	0.90
2:B:89:ILE:H	2:B:100:THR:CB	1.84	0.90
2:B:467:VAL:O	2:B:471:THR:CA	2.20	0.90
2:B:3261:ILE:HG22	2:B:3306:ILE:HG23	1.52	0.90
3:C:2669:ILE:HD13	3:C:2847:ALA:HB2	1.50	0.90
4:D:367:LEU:CD2	4:D:371:THR:OG1	2.20	0.90
4:D:518:SER:OG	4:D:528:TRP:HZ3	1.47	0.90
6:F:21:ASN:HD21	6:F:102:LEU:HD11	1.36	0.90
16:P:16:GLU:CB	16:P:74:LEU:HA	2.01	0.90
1:A:403:ALA:CA	1:A:471:ASN:CB	2.50	0.90
1:A:1030:SER:C	1:A:1092:TRP:HH2	1.76	0.90
2:B:1116:PHE:HA	2:B:1119:LYS:NZ	1.87	0.90
2:B:3162:VAL:O	2:B:3166:LYS:HG3	1.71	0.90
6:F:56:TRP:CH2	6:F:74:ILE:HG13	2.06	0.90
1:A:604:ALA:N	1:A:698:GLU:OE1	2.03	0.89
2:B:725:ILE:HG21	2:B:776:LEU:CG	2.01	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:33:HIS:HB2	3:C:60:LEU:HB2	1.52	0.89
3:C:2745:LYS:CD	3:C:2749:VAL:CG2	1.96	0.89
6:F:91:GLN:HG2	6:F:96:THR:HG22	0.90	0.89
1:A:670:LEU:CD2	1:A:772:TRP:CD1	2.54	0.89
1:A:1132:LEU:CB	1:A:1272:LEU:CD1	2.50	0.89
1:A:3443:LEU:HD13	1:A:3493:PHE:CZ	2.04	0.89
2:B:794:LEU:O	2:B:797:PHE:CE2	2.25	0.89
2:B:864:ASN:HB3	2:B:947:LEU:HB2	1.50	0.89
2:B:1058:LYS:HG3	2:B:1166:GLU:CA	2.01	0.89
2:B:1123:GLY:HA2	2:B:1197:PHE:HZ	1.33	0.89
3:C:261:ILE:HG21	3:C:385:ASP:CB	2.01	0.89
4:D:172:GLU:CD	12:L:55:LEU:HD12	1.92	0.89
10:J:26:VAL:HG23	10:J:98:PHE:HB3	1.51	0.89
1:A:907:ASN:O	1:A:911:TYR:CD2	2.25	0.89
1:A:3232:ILE:CG1	1:A:3316:TRP:CE3	2.25	0.89
2:B:1395:LEU:CA	2:B:1430:ILE:HD13	2.01	0.89
2:B:1528:LEU:HD21	2:B:1591:CYS:HB2	1.53	0.89
3:C:359:GLY:O	3:C:440:TYR:CB	2.20	0.89
4:D:564:ASP:CG	4:D:583:LYS:HE2	1.92	0.89
2:B:1531:ILE:CD1	2:B:1595:LEU:CD1	2.51	0.89
3:C:175:ASN:HB2	3:C:199:PRO:HG3	1.50	0.89
4:D:602:LEU:HD12	4:D:616:LEU:HD21	1.54	0.89
5:E:239:LEU:CD2	5:E:257:VAL:HG22	2.01	0.89
17:Q:43:GLY:HA3	17:Q:67:SER:CB	2.02	0.89
1:A:580:LEU:HD21	1:A:640:SER:HA	1.52	0.89
2:B:501:ARG:HH21	4:D:491:GLN:HG3	1.33	0.89
2:B:904:LEU:HD11	2:B:911:ILE:HG23	1.54	0.89
2:B:3342:ASN:O	2:B:3346:PHE:HB3	1.70	0.89
3:C:132:GLU:CD	3:C:133:PRO:CD	2.38	0.89
4:D:80:PRO:CG	15:O:103:TRP:NE1	2.31	0.89
5:E:48:ILE:HG13	12:L:23:PHE:CE2	2.07	0.89
5:E:60:SER:HB3	10:J:87:GLN:HG3	1.54	0.89
2:B:970:ALA:HB1	3:C:345:TRP:CE3	2.08	0.89
2:B:1485:MET:HA	2:B:1505:ARG:HD2	1.54	0.89
3:C:2666:CYS:HB2	3:C:2848:THR:CA	2.03	0.89
4:D:80:PRO:CD	15:O:103:TRP:CZ2	2.56	0.89
4:D:585:VAL:CG1	4:D:588:PRO:CD	2.50	0.89
5:E:310:LEU:HD11	5:E:358:ARG:HH12	1.38	0.89
8:H:60:ILE:CG1	9:I:85:TYR:CB	2.50	0.89
1:A:598:ARG:NH1	4:D:546:VAL:CG1	2.36	0.89
1:A:598:ARG:NH2	4:D:591:THR:O	2.06	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:900:PHE:HE1	2:B:933:TRP:HH2	1.17	0.89
2:B:1420:LEU:O	2:B:1424:GLU:HG3	1.73	0.89
2:B:3264:ASN:HB2	2:B:3306:ILE:HD12	1.53	0.89
3:C:165:GLY:N	3:C:174:PHE:HE2	1.71	0.89
10:J:77:HIS:HE2	11:K:92:LYS:HG2	1.35	0.89
1:A:565:LEU:O	1:A:569:TYR:HD2	1.56	0.89
1:A:722:LYS:O	1:A:726:TYR:HD2	1.54	0.89
1:A:871:LEU:HD22	1:A:872:ASP:N	1.88	0.89
1:A:913:VAL:C	1:A:1073:ALA:CB	2.42	0.89
1:A:1562:ILE:HB	1:A:1563:PRO:HD3	1.55	0.89
2:B:956:LEU:CD1	2:B:959:ILE:HD11	2.01	0.89
2:B:1566:ASN:HB3	3:C:2275:LYS:CE	2.03	0.89
3:C:180:LEU:HD22	3:C:187:TRP:CZ3	2.08	0.89
4:D:68:GLU:HG3	5:E:12:LYS:CA	2.03	0.89
4:D:285:PRO:CG	4:D:584:ILE:HG22	2.03	0.89
1:A:95:PHE:O	1:A:124:THR:CB	2.21	0.89
1:A:972:TRP:CZ3	1:A:985:PHE:CE1	2.57	0.89
1:A:1504:VAL:CG2	1:A:1565:CYS:SG	2.61	0.89
2:B:59:THR:N	2:B:82:ASP:O	2.04	0.89
2:B:3162:VAL:CG1	2:B:3166:LYS:HE3	2.02	0.89
3:C:12:GLN:NE2	3:C:349:LEU:CB	2.35	0.89
5:E:42:GLN:HE22	12:L:91:ASN:HD21	1.17	0.89
5:E:59:HIS:NE2	10:J:31:GLU:OE1	2.05	0.89
10:J:38:GLU:HB2	15:O:29:PHE:CE1	2.08	0.89
1:A:59:VAL:O	1:A:100:ASN:O	1.91	0.89
1:A:470:PHE:CB	1:A:485:THR:CB	2.51	0.89
1:A:3242:VAL:HA	1:A:3248:LEU:HD11	1.53	0.89
4:D:70:MET:HE2	5:E:13:GLU:HG2	1.53	0.89
6:F:51:LEU:HD21	7:G:116:ASP:HB2	1.54	0.89
9:I:78:ILE:CD1	9:I:106:LEU:HB3	2.02	0.89
11:K:55:GLY:HA3	13:M:79:GLU:HG3	1.55	0.89
1:A:1638:THR:HB	1:A:1655:GLN:HG2	1.53	0.88
1:A:3303:ILE:CD1	1:A:3340:TYR:HE2	1.83	0.88
1:A:3446:ASN:HD21	1:A:3488:LEU:HD13	1.37	0.88
2:B:409:SER:O	2:B:413:PHE:N	2.06	0.88
2:B:897:SER:HB3	2:B:898:PRO:HD3	1.55	0.88
3:C:2617:VAL:CG2	3:C:3183:ILE:HD13	2.02	0.88
3:C:2727:ILE:CD1	3:C:2745:LYS:CB	2.51	0.88
4:D:517:ILE:CG1	4:D:550:TRP:CE2	2.53	0.88
5:E:16:ASN:HB3	15:O:132:GLU:HG3	0.89	0.88
5:E:46:ASN:CB	12:L:88:PHE:HE1	1.82	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:61:VAL:CG1	10:J:95:PHE:CZ	2.56	0.88
5:E:99:ILE:CD1	6:F:31:ILE:CD1	2.51	0.88
2:B:429:LEU:CG	2:B:489:PHE:CE2	2.54	0.88
14:N:70:THR:HG22	15:O:99:SER:HB3	1.56	0.88
14:N:72:ILE:CB	15:O:97:ILE:HG12	2.02	0.88
1:A:854:GLU:HG2	5:E:205:PRO:HG2	1.54	0.88
2:B:436:PHE:CZ	2:B:499:LEU:CD2	2.45	0.88
2:B:1330:TRP:O	2:B:1409:SER:O	1.90	0.88
2:B:1559:MET:HE3	2:B:1577:ARG:NH2	1.88	0.88
3:C:196:PRO:N	3:C:239:TRP:HZ2	1.71	0.88
3:C:2734:PHE:CE2	3:C:2767:LYS:HE3	2.07	0.88
5:E:61:VAL:HG22	10:J:106:LEU:HD21	1.55	0.88
5:E:261:HIS:HE1	5:E:283:SER:CB	1.86	0.88
1:A:576:TYR:HE1	1:A:620:PRO:O	1.28	0.88
1:A:598:ARG:HD3	4:D:319:TYR:CE1	2.08	0.88
1:A:3110:LEU:CD1	1:A:3443:LEU:CD2	2.51	0.88
2:B:56:ASP:O	2:B:71:CYS:CB	2.22	0.88
2:B:957:GLN:CB	3:C:220:TRP:CH2	2.56	0.88
3:C:36:PHE:CB	3:C:57:VAL:HG22	2.03	0.88
4:D:92:TYR:CG	13:M:29:LYS:CB	2.56	0.88
4:D:174:GLN:OE1	12:L:49:LEU:CD1	2.19	0.88
4:D:207:ALA:C	9:I:24:ILE:HD12	1.94	0.88
6:F:91:GLN:CB	6:F:96:THR:HG22	2.03	0.88
8:H:7:VAL:HG23	8:H:9:PRO:HD3	1.56	0.88
8:H:12:LYS:CG	8:H:80:TYR:CE2	2.56	0.88
1:A:723:PHE:CD1	1:A:772:TRP:CZ2	2.61	0.88
1:A:3236:ILE:HA	1:A:3333:LEU:HD21	1.54	0.88
2:B:717:MET:SD	5:E:258:GLU:OE2	2.31	0.88
4:D:105:MET:HE3	14:N:48:GLN:HA	1.55	0.88
5:E:266:THR:OG1	5:E:283:SER:HA	1.74	0.88
5:E:386:VAL:HG13	5:E:391:CYS:HB3	1.54	0.88
10:J:32:CYS:SG	10:J:96:ILE:CD1	2.60	0.88
1:A:1430:ARG:HG2	1:A:1490:PHE:CD2	2.09	0.88
1:A:1433:LEU:HD11	1:A:1490:PHE:CE1	2.08	0.88
3:C:12:GLN:NE2	3:C:349:LEU:HB3	1.89	0.88
3:C:2720:PRO:HB2	3:C:2798:PHE:CD2	2.07	0.88
4:D:109:PHE:CD2	15:O:121:TYR:CE2	2.61	0.88
4:D:172:GLU:N	13:M:64:HIS:HB2	1.88	0.88
4:D:584:ILE:CG2	4:D:614:VAL:CG2	2.52	0.88
8:H:62:GLY:CA	9:I:83:TYR:HA	2.02	0.88
1:A:3249:ILE:HD11	1:A:3274:ASP:N	1.88	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:94:ARG:CZ	13:M:78:ASN:ND2	2.36	0.88
4:D:266:TYR:OH	5:E:121:TYR:CB	2.19	0.88
4:D:528:TRP:CE2	4:D:535:GLN:HB3	2.07	0.88
5:E:50:LEU:HD13	12:L:95:PHE:CG	2.07	0.88
7:G:58:SER:O	7:G:62:ASP:CB	2.21	0.88
15:O:30:TYR:N	15:O:31:PRO:HD2	1.89	0.88
17:Q:69:ASN:HA	17:Q:92:ASP:CB	2.03	0.88
3:C:2711:SER:HB3	3:C:2751:TRP:HZ2	1.30	0.88
4:D:105:MET:CE	14:N:48:GLN:CA	2.51	0.88
14:N:72:ILE:CG1	15:O:97:ILE:CD1	2.52	0.88
1:A:972:TRP:CE3	1:A:985:PHE:CZ	2.51	0.88
1:A:3248:LEU:HB2	17:Q:104:TYR:HE1	1.37	0.88
2:B:903:ARG:HB2	2:B:914:ASP:OD2	1.72	0.88
4:D:212:ILE:HD13	9:I:15:LEU:HD22	1.55	0.88
4:D:397:ASP:HB3	4:D:398:PRO:CD	2.02	0.88
4:D:398:PRO:HD3	4:D:419:SER:HB3	1.54	0.88
1:A:614:PHE:CE1	1:A:644:LEU:HB3	2.09	0.88
1:A:944:LEU:CD1	1:A:1013:VAL:HG11	2.04	0.88
2:B:87:LYS:CB	2:B:104:VAL:H	1.86	0.88
5:E:282:THR:CG2	5:E:322:LEU:HD12	2.04	0.88
1:A:1101:HIS:CA	1:A:1163:LEU:HD11	2.03	0.87
1:A:3249:ILE:HD11	1:A:3274:ASP:H	1.36	0.87
2:B:10:PRO:C	2:B:25:GLN:HA	1.93	0.87
2:B:679:ARG:HA	5:E:186:PHE:CZ	2.10	0.87
3:C:2740:ILE:CB	3:C:2744:LYS:CB	2.48	0.87
4:D:172:GLU:CA	13:M:64:HIS:HB3	1.91	0.87
16:P:15:SER:C	16:P:16:GLU:CA	2.42	0.87
1:A:942:VAL:HG21	1:A:1021:THR:HG22	1.56	0.87
2:B:3118:TYR:HE2	2:B:3452:LEU:N	1.71	0.87
3:C:354:VAL:CG2	3:C:357:ILE:HG13	2.03	0.87
3:C:2018:GLN:HG3	19:C:4702:ADP:H2'	1.56	0.87
1:A:604:ALA:HB3	1:A:698:GLU:HG2	1.56	0.87
1:A:1638:THR:CB	1:A:1655:GLN:HG3	2.04	0.87
1:A:3236:ILE:HA	1:A:3333:LEU:CD2	2.05	0.87
2:B:1395:LEU:CA	2:B:1430:ILE:CD1	2.52	0.87
3:C:2617:VAL:HG22	3:C:3183:ILE:HD13	1.56	0.87
3:C:2742:LYS:HE2	3:C:2785:VAL:HG21	1.57	0.87
5:E:24:GLU:OE2	14:N:91:THR:HG22	1.73	0.87
5:E:50:LEU:CD1	12:L:95:PHE:HB2	2.04	0.87
9:I:93:THR:HB	9:I:109:LYS:HB3	1.53	0.87
1:A:1458:MET:CE	1:A:1518:TRP:CH2	2.58	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3236:ILE:HG22	1:A:3332:ILE:HG22	1.56	0.87
2:B:946:ARG:N	2:B:955:PHE:CE2	2.40	0.87
3:C:2734:PHE:CE2	3:C:2767:LYS:CE	2.57	0.87
4:D:172:GLU:CG	12:L:51:LYS:HE2	2.03	0.87
4:D:195:ILE:CD1	9:I:94:LEU:HD21	2.03	0.87
4:D:201:GLN:OE1	9:I:102:ASN:CB	2.23	0.87
4:D:395:HIS:CE1	4:D:399:VAL:HG12	2.09	0.87
6:F:91:GLN:NE2	6:F:96:THR:HG21	1.89	0.87
1:A:891:PHE:CE1	1:A:985:PHE:HZ	1.92	0.87
1:A:1444:GLN:NE2	1:A:1560:LYS:HG2	1.87	0.87
2:B:1119:LYS:HB3	2:B:1138:LYS:CE	2.04	0.87
2:B:1467:PHE:HB3	2:B:1470:LEU:HD11	0.87	0.87
2:B:3301:ASN:HB3	2:B:3351:LYS:HZ1	1.40	0.87
5:E:61:VAL:HG21	10:J:106:LEU:HD22	1.51	0.87
5:E:117:GLU:CG	6:F:17:LEU:CD1	2.09	0.87
5:E:310:LEU:HD11	5:E:358:ARG:NH1	1.88	0.87
6:F:87:TYR:HB3	6:F:98:LEU:HD11	1.55	0.87
9:I:20:ILE:O	9:I:99:TYR:OH	1.92	0.87
10:J:36:ILE:HG23	10:J:72:PHE:CZ	2.09	0.87
1:A:1633:ALA:HB1	1:A:1839:LEU:O	1.72	0.87
1:A:3124:ILE:CD1	1:A:3429:TRP:CD1	2.58	0.87
1:A:3235:TYR:CZ	1:A:3269:LEU:HD12	1.96	0.87
1:A:3293:PHE:CE1	1:A:3335:TRP:CH2	2.63	0.87
2:B:1395:LEU:HA	2:B:1430:ILE:HD11	1.54	0.87
6:F:61:LYS:HE2	8:H:33:ASP:O	1.74	0.87
7:G:118:ASP:OD1	9:I:12:ILE:CD1	2.22	0.87
10:J:26:VAL:HG23	10:J:98:PHE:CB	2.05	0.87
12:L:84:CYS:HB2	13:M:56:ILE:HG12	1.57	0.87
17:Q:43:GLY:HA2	17:Q:67:SER:CB	2.04	0.87
1:A:95:PHE:CB	1:A:124:THR:CB	2.51	0.87
2:B:1145:LYS:O	2:B:1149:ASP:HB2	1.75	0.87
2:B:1531:ILE:HD13	2:B:1618:LEU:HD22	1.57	0.87
2:B:4227:PHE:HB2	2:B:4230:ILE:HD11	1.54	0.87
3:C:2735:ASN:OD1	3:C:2736:GLU:N	2.06	0.87
10:J:75:TYR:HB3	11:K:92:LYS:HE2	1.57	0.87
1:A:40:LEU:N	1:A:41:LEU:N	2.23	0.87
1:A:1044:THR:OG1	1:A:1047:ASN:HB2	1.75	0.87
2:B:444:LEU:O	5:E:515:LYS:HG3	1.75	0.87
2:B:829:VAL:HG11	2:B:940:ILE:CG2	2.04	0.87
2:B:864:ASN:HB2	2:B:947:LEU:HD21	1.50	0.87
2:B:1559:MET:CE	2:B:1577:ARG:NH2	2.36	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:46:ASN:O	12:L:88:PHE:CE1	2.27	0.87
1:A:763:LEU:O	1:A:763:LEU:HD13	1.75	0.86
1:A:3124:ILE:HD13	1:A:3425:GLU:HG3	1.56	0.86
2:B:511:PHE:CE2	2:B:547:LEU:CD2	2.56	0.86
2:B:660:LEU:HD11	2:B:715:LEU:HD21	1.57	0.86
2:B:973:THR:HG21	3:C:343:ASN:CB	2.05	0.86
2:B:3401:ARG:O	2:B:3405:VAL:HG23	1.75	0.86
3:C:2018:GLN:CG	19:C:4702:ADP:H2'	2.04	0.86
2:B:799:VAL:CB	2:B:800:LYS:N	2.38	0.86
2:B:3268:THR:HG22	2:B:3269:LEU:H	1.40	0.86
3:C:12:GLN:HE21	3:C:349:LEU:CB	1.87	0.86
14:N:72:ILE:HG12	15:O:97:ILE:HD13	1.56	0.86
1:A:3298:ILE:O	1:A:3343:HIS:NE2	2.08	0.86
2:B:957:GLN:CA	3:C:220:TRP:HH2	1.81	0.86
2:B:1230:MET:HE2	2:B:1267:TYR:HA	1.55	0.86
3:C:12:GLN:HE21	3:C:349:LEU:HB2	1.37	0.86
4:D:523:TRP:HB3	4:D:544:MET:HA	1.57	0.86
5:E:16:ASN:CA	15:O:132:GLU:HG3	2.06	0.86
8:H:67:SER:CB	9:I:78:ILE:CG2	2.53	0.86
14:N:89:GLN:HE22	14:N:116:ALA:H	1.23	0.86
16:P:39:TRP:CB	16:P:40:SER:N	2.39	0.86
17:Q:24:SER:CB	17:Q:48:THR:O	2.23	0.86
1:A:723:PHE:HE1	1:A:772:TRP:CE2	1.93	0.86
1:A:1028:LYS:O	1:A:1088:TRP:CH2	2.29	0.86
1:A:1459:LEU:O	1:A:1552:MET:SD	2.33	0.86
3:C:504:ALA:HB1	3:C:525:LYS:CB	2.04	0.86
3:C:2774:VAL:HG12	3:C:2780:VAL:HG21	1.56	0.86
4:D:252:VAL:HG13	7:G:149:GLN:HE22	1.35	0.86
6:F:61:LYS:CE	8:H:33:ASP:O	2.24	0.86
1:A:709:ILE:HG22	1:A:710:PRO:CD	2.03	0.86
1:A:871:LEU:HD22	1:A:872:ASP:H	1.40	0.86
2:B:57:ASN:HA	2:B:71:CYS:CB	2.05	0.86
2:B:503:LEU:O	2:B:507:ILE:HG13	1.75	0.86
2:B:658:GLN:CG	2:B:672:ASN:O	2.24	0.86
2:B:3255:THR:OG1	2:B:3337:CYS:SG	2.32	0.86
4:D:248:MET:HE1	7:G:147:VAL:CB	2.05	0.86
4:D:585:VAL:HG12	4:D:588:PRO:HD2	1.57	0.86
5:E:129:LEU:HD11	6:F:80:ARG:HD3	1.55	0.86
5:E:428:VAL:HG12	5:E:434:MET:HG3	1.57	0.86
1:A:1273:PHE:C	4:D:166:PHE:CE1	2.41	0.86
1:A:3128:THR:HG22	1:A:3422:LEU:HB3	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:679:ARG:HD3	5:E:187:GLN:OE1	1.76	0.86
2:B:1374:THR:O	2:B:1424:GLU:OE2	1.91	0.86
4:D:75:LEU:HB2	15:O:102:LEU:HD11	0.86	0.86
4:D:207:ALA:CA	9:I:24:ILE:HD11	2.06	0.86
14:N:116:ALA:O	15:O:131:PHE:CD1	2.28	0.86
2:B:429:LEU:HD12	2:B:489:PHE:HE2	1.36	0.86
2:B:660:LEU:CB	2:B:755:ILE:CD1	2.53	0.86
5:E:100:GLU:CB	5:E:105:PHE:CD2	2.27	0.86
6:F:91:GLN:HG2	6:F:96:THR:CB	2.04	0.86
1:A:1597:LYS:NZ	1:A:1962:ILE:HD11	1.90	0.86
1:A:3257:VAL:CG1	1:A:3266:VAL:CA	2.46	0.86
2:B:81:ILE:O	2:B:110:VAL:CA	2.18	0.86
2:B:724:HIS:CG	2:B:728:CYS:SG	2.69	0.86
2:B:957:GLN:HB2	3:C:220:TRP:CH2	2.10	0.86
4:D:584:ILE:CG2	4:D:614:VAL:HG21	2.05	0.86
4:D:595:PHE:CD1	4:D:602:LEU:CD2	2.58	0.86
1:A:565:LEU:O	1:A:569:TYR:CD2	2.28	0.86
1:A:686:VAL:HG23	1:A:731:LEU:HD23	1.58	0.86
1:A:1445:PHE:CE2	1:A:1564:CYS:HB2	2.11	0.86
2:B:1175:ASN:O	2:B:1179:THR:HG23	1.74	0.86
2:B:1485:MET:CB	2:B:1505:ARG:HD2	2.05	0.86
4:D:297:LYS:HZ3	4:D:328:LEU:HB2	1.07	0.86
4:D:398:PRO:HD3	4:D:419:SER:CB	2.03	0.86
4:D:529:ASP:OD2	4:D:532:TYR:HD2	1.58	0.86
5:E:391:CYS:SG	5:E:427:LEU:HD11	2.15	0.86
14:N:75:GLN:H	15:O:93:GLN:HE21	1.23	0.86
1:A:807:GLU:HG2	1:A:811:LYS:CE	2.05	0.86
1:A:1013:VAL:HG12	1:A:1017:LEU:HD11	1.56	0.86
2:B:679:ARG:HB3	5:E:186:PHE:CE2	2.09	0.86
2:B:913:PHE:HE2	2:B:1078:ILE:CD1	1.89	0.86
4:D:269:SER:OG	4:D:617:SER:HA	1.75	0.86
8:H:67:SER:HB2	9:I:78:ILE:CG2	2.05	0.86
8:H:70:THR:OG1	9:I:64:LYS:NZ	2.07	0.86
8:H:71:PHE:HB3	8:H:89:PHE:HB2	1.57	0.86
1:A:121:GLY:CA	2:B:105:ALA:O	2.24	0.85
1:A:1426:GLN:CB	1:A:1486:HIS:HB3	2.05	0.85
2:B:162:TYR:CB	2:B:176:LEU:CB	2.53	0.85
2:B:595:LEU:CD2	5:E:389:TRP:HZ2	1.89	0.85
2:B:1317:LEU:CB	16:P:61:GLU:HA	2.05	0.85
2:B:3139:GLY:HA3	2:B:3433:TRP:HH2	0.76	0.85
2:B:3230:ALA:HB1	2:B:3342:ASN:OD1	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2721:GLU:N	3:C:2798:PHE:CZ	2.44	0.85
5:E:310:LEU:HG	5:E:358:ARG:HH21	1.38	0.85
5:E:395:VAL:HG23	5:E:402:ILE:CG1	2.05	0.85
1:A:744:ILE:HD13	1:A:752:LEU:HD23	1.56	0.85
1:A:1433:LEU:HD12	1:A:1490:PHE:CD1	2.11	0.85
1:A:3194:ALA:CB	1:A:3356:VAL:CG2	2.54	0.85
2:B:660:LEU:HD22	2:B:671:VAL:HA	1.57	0.85
2:B:1139:LEU:HD21	2:B:1198:ILE:CG1	2.06	0.85
2:B:3264:ASN:CG	2:B:3306:ILE:HD11	1.96	0.85
5:E:46:ASN:O	12:L:88:PHE:CD2	2.29	0.85
5:E:53:ILE:HD13	12:L:81:ASN:HD21	1.41	0.85
5:E:64:GLU:OE2	10:J:18:TYR:HE2	1.59	0.85
1:A:3212:VAL:HG22	1:A:3338:ALA:HB3	1.58	0.85
2:B:1123:GLY:CA	2:B:1197:PHE:CZ	2.59	0.85
2:B:1470:LEU:O	2:B:1474:MET:HG2	1.76	0.85
2:B:3445:LYS:HB3	2:B:3487:PRO:CB	2.05	0.85
3:C:2213:ARG:NH2	19:C:4702:ADP:O3A	2.09	0.85
6:F:56:TRP:CD2	6:F:91:GLN:NE2	2.44	0.85
1:A:3251:ILE:CD1	17:Q:83:VAL:N	2.39	0.85
2:B:582:MET:CE	2:B:587:GLY:HA3	2.03	0.85
4:D:115:TYR:CZ	14:N:78:HIS:HD2	1.92	0.85
4:D:175:THR:OG1	13:M:60:ASN:HA	1.76	0.85
4:D:414:PHE:HB3	4:D:426:TRP:HB2	1.58	0.85
5:E:16:ASN:ND2	15:O:132:GLU:HA	1.92	0.85
5:E:239:LEU:HD21	5:E:257:VAL:CG2	2.03	0.85
8:H:67:SER:HB2	9:I:78:ILE:HG22	1.57	0.85
1:A:1487:VAL:HG23	1:A:1490:PHE:CZ	2.10	0.85
2:B:973:THR:HG21	3:C:343:ASN:HB3	1.58	0.85
4:D:626:GLU:OE1	4:D:629:GLN:HG2	1.75	0.85
14:N:72:ILE:HG23	15:O:97:ILE:HG13	1.54	0.85
1:A:948:LEU:HG	1:A:1010:LYS:HG2	1.57	0.85
3:C:165:GLY:CA	3:C:174:PHE:CE2	2.60	0.85
4:D:617:SER:OG	4:D:618:PRO:HD2	1.75	0.85
1:A:3257:VAL:HG11	1:A:3266:VAL:CG2	2.06	0.85
2:B:741:ILE:CD1	2:B:776:LEU:HD11	2.05	0.85
2:B:3143:LEU:HD23	2:B:3698:LEU:CD1	2.06	0.85
3:C:165:GLY:O	3:C:174:PHE:HZ	1.53	0.85
4:D:567:GLN:CD	4:D:578:LYS:HE3	1.97	0.85
8:H:67:SER:HA	9:I:78:ILE:HG22	1.57	0.85
1:A:1263:TYR:HE2	1:A:1280:TYR:O	1.60	0.85
1:A:3303:ILE:CD1	1:A:3340:TYR:CE2	2.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:957:GLN:HG3	3:C:164:HIS:CE1	2.06	0.85
2:B:957:GLN:HG3	3:C:164:HIS:HE1	1.39	0.85
2:B:1069:THR:HB	2:B:1070:PRO:HD2	1.56	0.85
14:N:116:ALA:HB3	15:O:131:PHE:CE1	2.11	0.85
1:A:155:GLY:N	2:B:168:ILE:HA	1.91	0.85
1:A:601:PRO:HG2	1:A:698:GLU:HG2	1.58	0.85
1:A:763:LEU:HD13	1:A:763:LEU:C	1.97	0.85
1:A:837:GLN:HE22	1:A:958:ALA:CB	1.89	0.85
1:A:1525:PHE:CG	1:A:1541:PHE:HD2	1.95	0.85
1:A:1633:ALA:HB3	1:A:1839:LEU:O	1.76	0.85
1:A:3299:ASN:HB3	1:A:3302:THR:OG1	1.77	0.85
2:B:1559:MET:HG3	2:B:1577:ARG:NH2	1.90	0.85
2:B:3301:ASN:HD22	2:B:3351:LYS:NZ	1.74	0.85
3:C:165:GLY:C	3:C:174:PHE:CE2	2.49	0.85
3:C:2701:ILE:HD11	3:C:2704:LYS:HD2	0.85	0.85
3:C:2800:PRO:HD2	3:C:2801:GLU:N	1.90	0.85
13:M:12:MET:HG3	13:M:73:ILE:HB	1.58	0.85
15:O:22:LEU:CD1	15:O:23:ASN:OD1	2.24	0.85
1:A:1136:MET:HE2	1:A:1136:MET:HA	1.59	0.85
1:A:1418:ASP:CG	1:A:3604:LYS:NZ	2.30	0.85
1:A:3117:PHE:CD2	1:A:3429:TRP:HZ3	1.94	0.85
1:A:3240:VAL:HG12	1:A:3244:PHE:CE1	2.12	0.85
2:B:682:LYS:CE	5:E:186:PHE:CD1	2.55	0.85
2:B:736:LEU:HD12	2:B:859:TYR:HB2	1.59	0.85
2:B:957:GLN:CB	3:C:220:TRP:CZ3	2.59	0.85
2:B:1447:ILE:CD1	2:B:1484:LEU:CB	2.55	0.85
3:C:2727:ILE:HD13	3:C:2745:LYS:HD3	0.86	0.85
3:C:2793:LEU:CA	3:C:2796:PRO:HG2	2.06	0.85
4:D:107:VAL:HG21	15:O:96:ARG:HG2	1.55	0.85
5:E:110:LYS:HG2	6:F:10:GLN:CD	1.96	0.85
9:I:95:LEU:HD23	9:I:107:ILE:HD11	1.57	0.85
1:A:935:VAL:HG22	1:A:944:LEU:HD22	0.85	0.84
1:A:1140:GLU:OE2	4:D:165:LYS:HE2	1.77	0.84
1:A:1429:ILE:CG2	1:A:1490:PHE:CZ	2.59	0.84
2:B:10:PRO:O	2:B:25:GLN:N	2.10	0.84
2:B:2543:GLY:HA2	19:B:5501:ADP:PA	2.16	0.84
2:B:3136:TYR:O	2:B:3433:TRP:CE3	2.30	0.84
8:H:46:LYS:HE3	9:I:86:ASP:CB	2.04	0.84
14:N:85:ILE:HG22	14:N:98:ILE:CD1	1.96	0.84
1:A:891:PHE:CE1	1:A:985:PHE:CZ	2.64	0.84
1:A:1031:ILE:CG2	1:A:1034:SER:OG	2.24	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:799:VAL:CA	2:B:800:LYS:N	2.40	0.84
2:B:3228:GLU:HG2	2:B:3346:PHE:CE1	2.12	0.84
4:D:70:MET:CE	5:E:13:GLU:HB3	2.07	0.84
4:D:105:MET:SD	14:N:48:GLN:CB	2.64	0.84
4:D:208:TYR:HE1	9:I:100:ASN:HB3	1.09	0.84
1:A:505:THR:O	1:A:509:LYS:N	2.10	0.84
1:A:853:VAL:CG2	5:E:206:ASN:ND2	2.40	0.84
2:B:1058:LYS:CG	2:B:1166:GLU:O	2.25	0.84
5:E:44:ASN:O	12:L:89:ASP:OD1	1.96	0.84
14:N:72:ILE:HG21	15:O:97:ILE:CD1	1.84	0.84
1:A:841:ILE:HD13	1:A:961:ALA:HB1	1.59	0.84
2:B:651:SER:OG	2:B:680:LEU:HD22	1.75	0.84
2:B:864:ASN:CA	2:B:947:LEU:CG	2.21	0.84
2:B:2190:LYS:CE	20:B:5601:ATP:O1B	2.25	0.84
4:D:80:PRO:CG	15:O:103:TRP:CZ2	2.60	0.84
4:D:252:VAL:CG1	7:G:149:GLN:NE2	2.40	0.84
4:D:517:ILE:HG12	4:D:550:TRP:NE1	1.91	0.84
4:D:528:TRP:CD1	4:D:535:GLN:N	2.44	0.84
15:O:22:LEU:HD12	15:O:23:ASN:N	1.92	0.84
1:A:1030:SER:C	1:A:1092:TRP:CH2	2.49	0.84
1:A:1585:GLN:NE2	1:A:1585:GLN:O	2.11	0.84
2:B:520:ARG:HH12	2:B:550:MET:CG	1.91	0.84
2:B:815:ASP:O	2:B:819:LYS:HG3	1.77	0.84
2:B:3162:VAL:HG13	2:B:3166:LYS:HE3	1.59	0.84
5:E:117:GLU:CD	6:F:17:LEU:HD11	1.98	0.84
1:A:801:ILE:CD1	1:A:862:LEU:HD23	2.06	0.84
1:A:1133:GLY:HA2	1:A:1268:ARG:O	1.72	0.84
1:A:3232:ILE:HG23	1:A:3316:TRP:HE3	1.40	0.84
2:B:603:ILE:HD11	2:B:626:TYR:CE1	2.12	0.84
2:B:861:ASP:OD2	3:C:170:GLN:OE1	1.96	0.84
2:B:2190:LYS:HE2	20:B:5601:ATP:O1B	1.76	0.84
3:C:2723:PHE:CZ	3:C:2749:VAL:HG11	2.13	0.84
1:A:723:PHE:CE1	1:A:772:TRP:CE2	2.65	0.84
1:A:1396:PRO:O	1:A:1400:TYR:N	2.11	0.84
2:B:1447:ILE:CG2	2:B:1504:TRP:CE2	2.47	0.84
2:B:3261:ILE:HG23	2:B:3306:ILE:HG23	1.59	0.84
1:A:155:GLY:HA3	2:B:168:ILE:CA	2.05	0.84
1:A:1012:LYS:HB3	1:A:1071:ILE:CG2	2.08	0.84
1:A:1598:LYS:HD3	1:A:1681:GLU:OE2	1.77	0.84
2:B:1051:ASP:HB3	2:B:1162:THR:CG2	2.08	0.84
2:B:1447:ILE:HG21	2:B:1504:TRP:CD1	2.13	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1983:THR:HG22	19:C:4702:ADP:N1	1.92	0.84
4:D:207:ALA:C	9:I:24:ILE:CD1	2.46	0.84
5:E:261:HIS:CE1	5:E:283:SER:CB	2.61	0.84
5:E:323:GLU:HB3	5:E:334:LEU:HB3	1.59	0.84
1:A:1121:LYS:HD3	1:A:1138:THR:CG2	2.07	0.84
2:B:429:LEU:HD11	2:B:489:PHE:CG	2.12	0.84
2:B:1511:VAL:N	2:B:1570:VAL:CG1	2.41	0.84
4:D:398:PRO:CD	4:D:419:SER:HB3	2.06	0.84
8:H:28:ALA:HB1	8:H:86:ILE:HD12	1.60	0.84
1:A:1013:VAL:HG12	1:A:1017:LEU:CD1	2.07	0.84
1:A:598:ARG:HH12	4:D:546:VAL:HG13	1.40	0.83
1:A:935:VAL:CG2	1:A:1017:LEU:HD21	2.07	0.83
1:A:1028:LYS:C	1:A:1088:TRP:HH2	1.81	0.83
1:A:1126:VAL:HA	1:A:1131:SER:CB	2.07	0.83
2:B:409:SER:O	2:B:413:PHE:CB	2.26	0.83
2:B:1058:LYS:HG3	2:B:1166:GLU:HB3	0.84	0.83
2:B:1511:VAL:HG13	2:B:1570:VAL:HG23	1.58	0.83
2:B:2334:TYR:CA	20:B:5601:ATP:H2	1.90	0.83
3:C:2708:GLN:OE1	3:C:2813:ILE:HD11	1.78	0.83
5:E:61:VAL:HG21	10:J:106:LEU:CD1	2.08	0.83
10:J:48:LEU:CD1	10:J:100:ILE:HD11	1.95	0.83
12:L:74:TRP:CD1	12:L:109:LYS:HD2	2.12	0.83
1:A:3442:LYS:CB	1:A:3485:THR:HG23	2.04	0.83
2:B:500:GLU:CG	2:B:532:THR:HG21	2.07	0.83
2:B:744:MET:CE	2:B:772:ILE:HG13	2.08	0.83
2:B:794:LEU:HA	2:B:797:PHE:HD2	1.41	0.83
2:B:900:PHE:CZ	2:B:933:TRP:CH2	2.66	0.83
2:B:2543:GLY:CA	19:B:5501:ADP:O2A	2.25	0.83
2:B:3268:THR:HG22	2:B:3269:LEU:HD12	1.60	0.83
2:B:3271:ASP:OD1	2:B:3272:PRO:CD	2.19	0.83
4:D:90:ASP:OD1	13:M:32:LYS:HG3	1.79	0.83
5:E:64:GLU:OE2	10:J:18:TYR:CE2	2.30	0.83
1:A:871:LEU:CD2	1:A:872:ASP:H	1.90	0.83
2:B:733:GLU:OE2	2:B:783:MET:HG2	1.73	0.83
2:B:910:GLY:HA2	2:B:995:TYR:CD1	2.13	0.83
4:D:208:TYR:N	9:I:24:ILE:HD12	1.93	0.83
4:D:265:ARG:CB	5:E:125:GLN:HG2	2.08	0.83
4:D:545:VAL:HA	4:D:562:THR:HG22	1.58	0.83
1:A:598:ARG:NH2	4:D:546:VAL:CG1	2.41	0.83
2:B:479:ASN:ND2	2:B:482:GLU:OE2	2.10	0.83
2:B:888:PRO:HA	2:B:891:ILE:HG22	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3133:ILE:HG12	2:B:3440:LEU:CD1	2.09	0.83
3:C:2724:ALA:HB1	3:C:2793:LEU:HD13	1.59	0.83
3:C:2807:SER:OG	3:C:2810:ALA:HB2	1.77	0.83
4:D:441:LEU:HD12	4:D:457:ALA:O	1.76	0.83
4:D:552:PRO:HD3	4:D:595:PHE:CD2	2.13	0.83
5:E:99:ILE:HD12	6:F:31:ILE:HD11	1.59	0.83
6:F:48:ILE:CD1	6:F:98:LEU:CD2	2.08	0.83
1:A:659:TRP:CZ2	1:A:702:LEU:HD12	2.12	0.83
1:A:670:LEU:HD23	1:A:772:TRP:CD1	2.13	0.83
1:A:760:ASP:OD2	1:A:764:ARG:HD3	1.79	0.83
1:A:1121:LYS:HD3	1:A:1138:THR:HG22	1.59	0.83
3:C:1983:THR:HB	19:C:4702:ADP:N6	1.93	0.83
5:E:23:THR:HG21	14:N:88:TYR:CD1	2.07	0.83
2:B:489:PHE:CE1	2:B:493:ARG:HD3	2.13	0.83
2:B:1485:MET:CA	2:B:1505:ARG:HD2	2.08	0.83
2:B:1602:LYS:NZ	2:B:1683:GLU:OE1	2.03	0.83
4:D:68:GLU:CG	5:E:12:LYS:CA	2.57	0.83
4:D:207:ALA:HB1	9:I:24:ILE:HD11	0.85	0.83
4:D:266:TYR:HH	5:E:121:TYR:CB	1.90	0.83
4:D:543:MET:SD	4:D:563:MET:CB	2.67	0.83
6:F:56:TRP:CZ3	6:F:74:ILE:CD1	2.62	0.83
1:A:3231:ASP:OD2	1:A:3258:PHE:CE2	2.31	0.83
2:B:13:PHE:CB	2:B:25:GLN:O	2.27	0.83
2:B:345:ARG:CB	2:B:412:LEU:CD1	2.56	0.83
2:B:3178:VAL:CG1	2:B:3395:LEU:CD2	2.42	0.83
5:E:310:LEU:CD1	5:E:358:ARG:NH1	2.41	0.83
8:H:60:ILE:HD12	9:I:78:ILE:HG12	1.57	0.83
2:B:533:ARG:CG	2:B:534:PRO:CD	2.57	0.83
2:B:799:VAL:HG12	2:B:800:LYS:N	1.93	0.83
3:C:354:VAL:HG11	3:C:357:ILE:HD12	0.93	0.83
5:E:432:GLY:HA2	5:E:457:LEU:HD13	1.61	0.83
10:J:32:CYS:HB3	10:J:96:ILE:HG12	1.56	0.83
10:J:79:PHE:CD2	11:K:68:ALA:CB	2.62	0.83
15:O:22:LEU:HD11	15:O:23:ASN:OD1	1.79	0.83
1:A:3194:ALA:HB1	1:A:3356:VAL:HG21	1.61	0.83
2:B:589:LEU:HD12	2:B:687:PHE:CZ	2.13	0.83
2:B:1531:ILE:HD13	2:B:1595:LEU:CD1	2.07	0.83
4:D:105:MET:CE	14:N:48:GLN:N	2.41	0.83
4:D:265:ARG:HG2	5:E:125:GLN:CG	2.02	0.83
4:D:351:MET:HE2	4:D:351:MET:HA	1.59	0.83
1:A:3110:LEU:CD1	1:A:3443:LEU:HD23	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:349:ASN:CB	2:B:416:LEU:CG	2.57	0.83
2:B:658:GLN:HE21	2:B:672:ASN:CG	1.82	0.83
2:B:861:ASP:HA	2:B:864:ASN:HD21	1.42	0.83
2:B:973:THR:CG2	3:C:343:ASN:HB3	2.08	0.83
3:C:2738:ILE:CB	3:C:2746:PRO:HG3	2.09	0.83
6:F:56:TRP:CZ3	6:F:74:ILE:HG13	2.14	0.83
1:A:891:PHE:HD1	1:A:972:TRP:CE3	1.97	0.82
1:A:1020:PHE:CZ	1:A:1069:TYR:CD1	2.64	0.82
2:B:762:ILE:O	2:B:766:ILE:N	2.11	0.82
3:C:2730:LEU:HD21	3:C:2744:LYS:H	1.43	0.82
4:D:569:TYR:OH	4:D:578:LYS:CG	2.27	0.82
5:E:384:LEU:HG	5:E:417:TRP:HE1	1.42	0.82
6:F:78:ARG:HD2	6:F:88:ILE:HG12	1.60	0.82
1:A:871:LEU:CD2	1:A:875:VAL:CG1	2.56	0.82
1:A:3421:SER:HB3	1:A:3716:LEU:HG	1.58	0.82
2:B:1123:GLY:CA	2:B:1197:PHE:HZ	1.91	0.82
4:D:177:ASN:HD21	13:M:60:ASN:HB3	1.41	0.82
5:E:420:THR:HG22	5:E:472:SER:HB2	1.58	0.82
14:N:89:GLN:NE2	14:N:116:ALA:H	1.76	0.82
14:N:116:ALA:CB	15:O:131:PHE:CE1	2.62	0.82
2:B:165:LEU:O	2:B:169:LYS:CA	2.26	0.82
2:B:888:PRO:HA	2:B:891:ILE:CG2	2.09	0.82
3:C:2723:PHE:CE1	3:C:2749:VAL:HG13	2.12	0.82
4:D:105:MET:HE2	14:N:51:ILE:HD12	1.61	0.82
4:D:208:TYR:OH	9:I:19:MET:HG3	1.79	0.82
8:H:51:SER:OG	18:R:32:LYS:CB	2.27	0.82
1:A:761:LEU:HD21	1:A:874:HIS:HE1	1.41	0.82
1:A:801:ILE:HG21	1:A:862:LEU:CG	2.09	0.82
1:A:1274:GLY:C	4:D:164:ASN:OD1	2.18	0.82
2:B:3078:ILE:CD1	2:B:3452:LEU:HD22	2.08	0.82
2:B:3230:ALA:CB	2:B:3342:ASN:OD1	2.27	0.82
3:C:360:PRO:HG2	3:C:361:PRO:HD3	1.61	0.82
4:D:174:GLN:HB2	13:M:62:GLY:CA	2.01	0.82
4:D:252:VAL:CG1	7:G:149:GLN:HE22	1.92	0.82
4:D:532:TYR:CE1	4:D:652:MET:HE1	2.15	0.82
5:E:16:ASN:N	15:O:132:GLU:HG2	1.95	0.82
1:A:853:VAL:HG12	5:E:206:ASN:OD1	1.78	0.82
1:A:3106:LYS:CB	1:A:3443:LEU:HD21	2.09	0.82
2:B:445:GLY:CA	5:E:511:ARG:NH1	2.41	0.82
2:B:1492:LYS:NZ	2:B:3606:GLN:CD	2.32	0.82
4:D:583:LYS:HD3	4:D:586:LYS:HA	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:46:ASN:HB3	12:L:88:PHE:HE1	1.40	0.82
5:E:310:LEU:CG	5:E:358:ARG:CZ	2.54	0.82
1:A:614:PHE:CG	1:A:644:LEU:HD22	2.15	0.82
1:A:3215:ILE:CG2	1:A:3219:ASP:CG	2.48	0.82
2:B:1559:MET:CE	2:B:1577:ARG:HD3	2.10	0.82
3:C:10:LEU:HD22	3:C:65:ASN:O	1.76	0.82
3:C:2800:PRO:CB	3:C:2818:VAL:HG21	2.10	0.82
4:D:265:ARG:NE	5:E:125:GLN:HA	1.93	0.82
5:E:402:ILE:HG22	5:E:403:ILE:HG13	1.61	0.82
10:J:36:ILE:CG1	10:J:72:PHE:CE1	2.58	0.82
14:N:84:GLN:HE21	15:O:61:GLU:HB2	1.39	0.82
1:A:730:LEU:CD2	1:A:781:LEU:HD21	2.08	0.82
1:A:879:LEU:HD12	1:A:882:GLU:OE2	1.79	0.82
2:B:900:PHE:HE1	2:B:933:TRP:CH2	1.97	0.82
2:B:1139:LEU:HD21	2:B:1198:ILE:HG12	1.61	0.82
2:B:1242:GLN:O	2:B:1251:SER:N	2.13	0.82
3:C:504:ALA:CB	3:C:525:LYS:CB	2.58	0.82
3:C:2606:GLY:C	3:C:2910:TRP:CZ3	2.52	0.82
7:G:119:PRO:HG2	9:I:12:ILE:CB	2.09	0.82
1:A:1522:GLU:HG3	1:A:1523:PRO:CD	2.02	0.82
3:C:60:LEU:HD21	3:C:69:TRP:HZ3	1.40	0.82
3:C:99:GLY:CA	3:C:149:HIS:CE1	2.61	0.82
1:A:5:LYS:CB	1:A:48:GLU:CA	2.57	0.82
1:A:3229:PRO:HB2	1:A:3233:ILE:HG23	1.62	0.82
2:B:655:LYS:HB2	2:B:677:LEU:HD21	1.62	0.82
3:C:132:GLU:OE2	3:C:133:PRO:HD2	1.80	0.82
4:D:367:LEU:HD11	4:D:371:THR:CB	2.09	0.82
5:E:384:LEU:CD2	5:E:417:TRP:CE2	2.63	0.82
1:A:907:ASN:O	1:A:911:TYR:HD2	1.61	0.82
1:A:3249:ILE:CD1	1:A:3274:ASP:H	1.92	0.82
1:A:3252:GLN:O	1:A:3255:GLU:CG	2.26	0.82
2:B:864:ASN:HA	2:B:947:LEU:CD1	2.09	0.82
2:B:3268:THR:HG22	2:B:3269:LEU:CD1	2.10	0.82
3:C:2793:LEU:CA	3:C:2796:PRO:CG	2.58	0.82
4:D:180:ILE:HG21	10:J:75:TYR:CE1	2.15	0.82
1:A:576:TYR:HD1	1:A:620:PRO:O	1.63	0.81
2:B:579:PHE:CE1	5:E:369:PRO:HG2	2.14	0.81
2:B:789:LYS:HB3	2:B:839:LEU:CD1	2.10	0.81
2:B:3153:LEU:HD13	2:B:3707:LEU:HD11	0.84	0.81
4:D:92:TYR:CD1	13:M:29:LYS:HB3	2.14	0.81
1:A:3212:VAL:HG23	1:A:3338:ALA:CB	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3251:ILE:CD1	17:Q:61:SER:C	2.48	0.81
2:B:444:LEU:HA	5:E:515:LYS:HG3	0.85	0.81
2:B:520:ARG:NH1	2:B:550:MET:CG	2.43	0.81
2:B:762:ILE:HG22	2:B:766:ILE:CG1	2.09	0.81
2:B:899:LEU:CD1	2:B:900:PHE:HD1	1.93	0.81
2:B:1612:LEU:CD1	2:B:1637:CYS:SG	2.67	0.81
4:D:81:GLN:OE1	15:O:110:TYR:CE2	2.31	0.81
5:E:68:THR:HB	8:H:70:THR:CG2	2.08	0.81
12:L:84:CYS:HB3	13:M:56:ILE:HA	1.62	0.81
14:N:8:TYR:CE1	14:N:13:VAL:HG21	2.15	0.81
1:A:1263:TYR:CE2	1:A:1280:TYR:O	2.34	0.81
1:A:3260:LYS:NZ	1:A:3315:ASP:HB3	1.94	0.81
1:A:3306:LEU:HD13	1:A:3306:LEU:C	2.00	0.81
1:A:3345:LYS:N	1:A:3345:LYS:HE3	1.94	0.81
2:B:733:GLU:CD	2:B:783:MET:HG2	1.99	0.81
2:B:1514:VAL:HG11	2:B:1570:VAL:HA	1.63	0.81
3:C:196:PRO:N	3:C:239:TRP:CZ2	2.46	0.81
3:C:2365:GLY:HA2	19:C:4703:ADP:H3'	1.62	0.81
3:C:2721:GLU:CB	3:C:2803:MET:HE2	2.02	0.81
3:C:2743:ASN:HD22	3:C:2785:VAL:HG12	0.74	0.81
5:E:112:LEU:CD2	6:F:97:MET:CG	2.57	0.81
5:E:310:LEU:HD11	5:E:358:ARG:CZ	2.08	0.81
8:H:60:ILE:CG1	9:I:85:TYR:HB2	2.08	0.81
10:J:94:ARG:HB3	10:J:109:GLN:HB3	1.59	0.81
2:B:913:PHE:HE2	2:B:1078:ILE:HD13	1.44	0.81
3:C:261:ILE:CG2	3:C:385:ASP:CB	2.58	0.81
3:C:2708:GLN:CD	3:C:2813:ILE:HD11	2.01	0.81
1:A:760:ASP:OD2	1:A:764:ARG:CD	2.28	0.81
1:A:853:VAL:CG1	5:E:206:ASN:OD1	2.27	0.81
4:D:595:PHE:HD1	4:D:602:LEU:CD2	1.92	0.81
6:F:35:ARG:NH2	6:F:41:SER:HB2	1.94	0.81
6:F:81:THR:CG2	7:G:114:VAL:CG2	2.42	0.81
14:N:72:ILE:HA	15:O:97:ILE:HG12	1.62	0.81
1:A:841:ILE:CD1	1:A:961:ALA:HB1	2.11	0.81
1:A:1101:HIS:HB2	1:A:1163:LEU:HD11	1.62	0.81
2:B:551:TYR:HD2	2:B:622:VAL:HG11	1.43	0.81
2:B:679:ARG:CB	5:E:186:PHE:CZ	2.64	0.81
2:B:1102:LEU:HA	2:B:1105:GLN:HB2	1.63	0.81
4:D:283:LEU:HB2	4:D:582:GLN:HG3	1.60	0.81
6:F:56:TRP:CZ3	6:F:74:ILE:HD11	2.15	0.81
1:A:1101:HIS:CB	1:A:1163:LEU:HD11	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3236:ILE:HG23	1:A:3333:LEU:CA	2.10	0.81
2:B:57:ASN:CA	2:B:70:LYS:O	2.25	0.81
2:B:864:ASN:HB2	2:B:947:LEU:HD23	0.83	0.81
2:B:1528:LEU:CD2	2:B:1591:CYS:HB2	2.10	0.81
5:E:145:LEU:HD22	5:E:494:LEU:HG	1.63	0.81
5:E:420:THR:CG2	5:E:472:SER:HB2	2.09	0.81
1:A:594:PRO:HB3	1:A:609:TRP:CE3	2.16	0.81
2:B:993:TYR:OH	2:B:1067:ILE:CG2	2.28	0.81
3:C:2585:PHE:HB2	3:C:2932:SER:HB2	1.62	0.81
4:D:105:MET:SD	14:N:48:GLN:HB2	2.21	0.81
5:E:174:PRO:HD3	5:E:466:GLY:HA2	1.62	0.81
10:J:95:PHE:CZ	10:J:106:LEU:CD1	2.63	0.81
15:O:30:TYR:H	15:O:31:PRO:CD	1.94	0.81
1:A:801:ILE:HD12	1:A:862:LEU:HD23	1.63	0.81
1:A:1013:VAL:HA	1:A:1016:PHE:HE1	1.45	0.81
1:A:1132:LEU:CA	1:A:1272:LEU:HD11	2.10	0.81
3:C:2719:VAL:HG13	3:C:2720:PRO:CD	2.08	0.81
1:A:688:PHE:CZ	1:A:693:MET:SD	2.74	0.81
1:A:944:LEU:HD11	1:A:1013:VAL:CG1	2.11	0.81
1:A:3273:TYR:HH	1:A:3277:GLY:HA3	1.41	0.81
4:D:91:TYR:CZ	13:M:80:LEU:HB2	2.16	0.81
8:H:62:GLY:HA3	9:I:83:TYR:HA	1.61	0.81
8:H:64:ASN:HB2	9:I:81:GLU:CB	2.06	0.81
1:A:1013:VAL:HG13	1:A:1076:LEU:HD13	1.62	0.80
1:A:1396:PRO:O	1:A:1400:TYR:CB	2.30	0.80
1:A:3313:SER:HA	1:A:3317:PHE:HD2	1.46	0.80
2:B:3136:TYR:HE1	2:B:3436:ASN:HD22	1.27	0.80
3:C:143:PRO:CD	3:C:187:TRP:NE1	2.44	0.80
3:C:261:ILE:HG12	3:C:360:PRO:HB3	1.62	0.80
3:C:321:ARG:HA	3:C:342:ALA:HB2	1.61	0.80
3:C:2592:LYS:HD2	3:C:2928:VAL:HG22	1.62	0.80
4:D:148:GLU:CG	4:D:149:PRO:HD2	2.04	0.80
4:D:184:GLY:HA3	11:K:69:TYR:CD1	2.15	0.80
2:B:718:ILE:HD13	2:B:770:LYS:HA	1.64	0.80
5:E:392:LYS:HB2	5:E:394:TRP:CH2	2.17	0.80
1:A:1020:PHE:CA	1:A:1023:PHE:CE2	2.60	0.80
1:A:3106:LYS:HG2	1:A:3443:LEU:CD2	1.91	0.80
1:A:3235:TYR:HH	1:A:3269:LEU:HD12	1.47	0.80
2:B:448:LYS:HE2	2:B:513:ASP:OD2	1.81	0.80
4:D:80:PRO:HB3	15:O:105:VAL:HG13	1.62	0.80
4:D:195:ILE:CD1	9:I:94:LEU:CD2	2.59	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:613:LEU:O	4:D:613:LEU:HD12	1.81	0.80
1:A:121:GLY:HA3	2:B:105:ALA:O	1.82	0.80
1:A:1429:ILE:HG22	1:A:1490:PHE:CZ	2.16	0.80
2:B:58:SER:H	2:B:70:LYS:C	1.85	0.80
2:B:598:ARG:CB	5:E:367:LEU:HD13	2.12	0.80
2:B:794:LEU:CB	2:B:797:PHE:HE2	1.94	0.80
2:B:799:VAL:C	2:B:800:LYS:CA	2.49	0.80
2:B:1378:LEU:CB	2:B:1424:GLU:HG2	2.11	0.80
3:C:2793:LEU:HA	3:C:2796:PRO:CG	2.11	0.80
4:D:196:CYS:SG	9:I:86:ASP:CG	2.59	0.80
4:D:201:GLN:HE22	9:I:102:ASN:N	1.77	0.80
4:D:208:TYR:CE1	9:I:22:LYS:HB2	2.17	0.80
5:E:288:VAL:HG21	5:E:335:ILE:HD13	1.64	0.80
14:N:72:ILE:HG12	15:O:97:ILE:HG21	1.60	0.80
15:O:30:TYR:OH	15:O:126:VAL:CG1	2.29	0.80
1:A:970:TYR:C	1:A:983:ALA:HB1	2.00	0.80
1:A:1012:LYS:NZ	1:A:1072:GLY:CA	2.44	0.80
1:A:1012:LYS:CB	1:A:1071:ILE:CD1	2.58	0.80
1:A:1126:VAL:HG13	1:A:1131:SER:O	1.81	0.80
1:A:3103:TYR:CE2	1:A:3444:VAL:CG2	2.42	0.80
2:B:409:SER:HA	2:B:413:PHE:CD1	2.12	0.80
3:C:2807:SER:OG	3:C:2810:ALA:CB	2.29	0.80
4:D:80:PRO:HG3	15:O:103:TRP:HE1	0.76	0.80
4:D:111:MET:CE	15:O:90:ILE:HB	2.10	0.80
4:D:528:TRP:NE1	4:D:535:GLN:CB	2.45	0.80
5:E:310:LEU:CD2	5:E:358:ARG:HH21	1.88	0.80
6:F:26:PHE:CD1	6:F:49:ALA:HB2	2.16	0.80
6:F:26:PHE:CE1	6:F:49:ALA:HA	2.16	0.80
10:J:26:VAL:HG23	10:J:97:TYR:C	2.01	0.80
1:A:397:ILE:O	1:A:489:LYS:CB	2.30	0.80
1:A:611:ARG:NH2	1:A:705:GLN:HB2	1.96	0.80
1:A:1458:MET:HE1	1:A:1518:TRP:CZ2	2.16	0.80
2:B:861:ASP:CB	3:C:170:GLN:HB3	2.11	0.80
2:B:2333:PRO:C	20:B:5601:ATP:N1	2.35	0.80
4:D:91:TYR:CZ	13:M:80:LEU:CD1	2.63	0.80
4:D:285:PRO:HG3	4:D:584:ILE:CG2	2.12	0.80
5:E:22:ASP:HB2	14:N:91:THR:H	1.46	0.80
7:G:58:SER:C	7:G:59:GLU:CA	2.49	0.80
10:J:61:ALA:CA	10:J:80:PHE:HE2	1.93	0.80
1:A:723:PHE:HD1	1:A:772:TRP:HZ2	1.29	0.80
4:D:367:LEU:HD11	4:D:371:THR:CG2	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:60:ILE:CD1	9:I:78:ILE:HG12	2.11	0.80
3:C:29:VAL:HG22	3:C:92:ALA:O	1.81	0.80
3:C:2795:MET:N	3:C:2796:PRO:HD3	1.97	0.80
3:C:2799:THR:O	3:C:2803:MET:HG2	1.81	0.80
4:D:184:GLY:HA3	11:K:69:TYR:HD1	1.44	0.80
4:D:208:TYR:CZ	9:I:100:ASN:HB2	2.16	0.80
1:A:761:LEU:C	1:A:761:LEU:HD13	2.02	0.80
1:A:3046:PHE:CE2	1:A:3104:ILE:HD11	2.17	0.80
2:B:861:ASP:OD2	3:C:170:GLN:CG	2.30	0.80
2:B:1466:THR:HB	2:B:1522:GLN:OE1	1.82	0.80
3:C:2721:GLU:OE2	3:C:2798:PHE:CE1	2.33	0.80
4:D:113:GLY:CA	15:O:92:GLY:O	2.29	0.80
5:E:16:ASN:N	15:O:132:GLU:CG	2.44	0.80
1:A:853:VAL:CB	5:E:206:ASN:CG	2.41	0.80
2:B:603:ILE:HD11	2:B:626:TYR:CD1	2.18	0.80
2:B:794:LEU:HD11	2:B:867:VAL:HA	1.63	0.80
2:B:963:PHE:HE1	3:C:83:CYS:HG	1.30	0.80
3:C:2726:THR:HA	3:C:2729:LEU:HD11	1.57	0.80
4:D:265:ARG:CD	5:E:125:GLN:HA	2.12	0.80
5:E:80:TRP:CE3	5:E:81:PRO:HD2	2.16	0.80
6:F:81:THR:HG21	7:G:114:VAL:HG23	1.61	0.80
15:O:22:LEU:CD1	15:O:23:ASN:ND2	2.45	0.80
1:A:1126:VAL:HG21	1:A:1135:VAL:CG2	2.10	0.79
2:B:791:HIS:HE1	2:B:866:ILE:HD13	1.42	0.79
2:B:1119:LYS:HB3	2:B:1138:LYS:HZ2	1.43	0.79
2:B:1467:PHE:CZ	2:B:1563:VAL:HG11	2.17	0.79
3:C:2698:LEU:HD21	3:C:2768:LEU:HB3	1.64	0.79
4:D:378:ARG:HD3	5:E:137:THR:O	1.81	0.79
5:E:20:PHE:CZ	14:N:89:GLN:HA	2.16	0.79
6:F:91:GLN:HG2	6:F:96:THR:HG21	1.55	0.79
12:L:42:ILE:HD12	12:L:98:LEU:HD12	1.64	0.79
3:C:2607:LEU:N	3:C:2910:TRP:HZ3	1.78	0.79
6:F:50:ALA:CB	8:H:83:GLN:CG	2.60	0.79
1:A:1430:ARG:CG	1:A:1490:PHE:CD2	2.65	0.79
2:B:10:PRO:HA	2:B:25:GLN:O	1.81	0.79
2:B:1127:ASN:HB3	2:B:1128:PRO:HD2	1.57	0.79
2:B:1456:PHE:CE1	2:B:1458:PHE:CZ	2.70	0.79
3:C:2676:GLN:CB	3:C:2841:THR:HG23	2.12	0.79
5:E:517:LYS:NZ	5:E:517:LYS:HB3	1.96	0.79
6:F:51:LEU:CD2	7:G:116:ASP:HB2	2.11	0.79
1:A:728:ASN:HD22	4:D:396:THR:HG22	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2711:SER:HB2	3:C:2755:LEU:HD21	1.64	0.79
3:C:2745:LYS:HD2	3:C:2749:VAL:CB	2.10	0.79
4:D:367:LEU:HD12	4:D:368:TYR:O	1.82	0.79
8:H:61:VAL:O	9:I:84:ALA:N	2.15	0.79
1:A:1013:VAL:HA	1:A:1016:PHE:CE1	2.18	0.79
1:A:3347:LYS:O	1:A:3351:PRO:HD3	1.82	0.79
2:B:443:GLU:CD	5:E:514:ARG:HH12	1.79	0.79
2:B:801:ILE:CG1	2:B:878:ALA:CA	2.60	0.79
2:B:957:GLN:HA	3:C:220:TRP:CZ3	2.16	0.79
2:B:2334:TYR:CA	20:B:5601:ATP:C2	2.66	0.79
3:C:99:GLY:HA3	3:C:149:HIS:NE2	1.97	0.79
5:E:164:VAL:HG22	5:E:181:TYR:CD1	2.15	0.79
1:A:155:GLY:CA	2:B:167:GLN:C	2.45	0.79
1:A:598:ARG:NH1	4:D:546:VAL:HG13	1.97	0.79
1:A:794:LEU:C	1:A:794:LEU:HD13	2.03	0.79
1:A:937:LEU:CD1	1:A:1081:ILE:HG12	2.12	0.79
2:B:1208:LYS:HE3	2:B:1208:LYS:CA	2.12	0.79
2:B:1230:MET:HE1	2:B:1267:TYR:N	1.98	0.79
3:C:2673:VAL:CA	3:C:2841:THR:HA	2.11	0.79
6:F:40:ILE:HB	6:F:44:LYS:HB2	1.64	0.79
1:A:700:LYS:HE3	1:A:720:GLU:CD	2.02	0.79
2:B:444:LEU:HD22	5:E:515:LYS:HE2	1.62	0.79
2:B:595:LEU:CD2	5:E:389:TRP:CZ2	2.66	0.79
4:D:90:ASP:CG	13:M:32:LYS:CG	2.47	0.79
4:D:353:LEU:HG	4:D:363:LEU:HD21	1.64	0.79
4:D:414:PHE:HD2	4:D:426:TRP:HD1	1.23	0.79
4:D:590:LEU:CD2	4:D:604:VAL:HG11	2.12	0.79
5:E:48:ILE:HG13	12:L:23:PHE:HE2	1.44	0.79
5:E:385:SER:OG	5:E:394:TRP:CZ3	2.30	0.79
14:N:18:ASP:OD1	14:N:101:TYR:OH	2.00	0.79
1:A:1504:VAL:HG13	1:A:1565:CYS:SG	2.23	0.79
1:A:1642:ALA:HB2	1:A:1652:GLN:HB2	1.61	0.79
1:A:3345:LYS:HE3	1:A:3345:LYS:CA	2.12	0.79
2:B:429:LEU:HG	2:B:489:PHE:HZ	1.43	0.79
2:B:744:MET:HE1	2:B:772:ILE:C	2.02	0.79
2:B:1212:ILE:HG22	2:B:1213:PRO:CD	2.13	0.79
4:D:70:MET:HE2	5:E:13:GLU:CG	2.12	0.79
4:D:567:GLN:CG	4:D:578:LYS:HD2	2.12	0.79
5:E:112:LEU:O	5:E:116:VAL:HG23	1.83	0.79
15:O:30:TYR:HH	15:O:126:VAL:HG12	1.47	0.79
2:B:60:ASN:CB	2:B:81:ILE:CB	2.61	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:791:HIS:CE1	2:B:866:ILE:CD1	2.64	0.79
2:B:899:LEU:HD11	2:B:900:PHE:HD1	1.48	0.79
2:B:1238:LYS:NZ	2:B:1308:LEU:HA	1.98	0.79
5:E:266:THR:CG2	5:E:320:THR:HA	2.09	0.79
12:L:86:LEU:HD12	13:M:54:ASN:CB	2.13	0.79
15:O:38:ILE:HG22	15:O:67:LEU:HD11	1.63	0.79
1:A:997:LYS:HD3	18:R:149:LEU:CB	2.12	0.79
1:A:1597:LYS:NZ	1:A:1962:ILE:CD1	2.45	0.79
1:A:3298:ILE:HA	1:A:3343:HIS:HE1	1.46	0.79
1:A:3446:ASN:HA	1:A:3488:LEU:CD2	2.13	0.79
2:B:429:LEU:HD11	2:B:489:PHE:CZ	2.14	0.79
2:B:679:ARG:HA	5:E:186:PHE:HZ	1.48	0.79
2:B:1107:ARG:HH21	2:B:1172:LYS:HE2	1.47	0.79
2:B:3178:VAL:HG11	2:B:3395:LEU:HD21	0.80	0.79
4:D:417:ILE:HD12	4:D:474:VAL:HG23	1.64	0.79
8:H:56:THR:CG2	9:I:88:THR:OG1	2.29	0.79
1:A:944:LEU:CD1	1:A:1017:LEU:HD11	2.11	0.78
1:A:1121:LYS:CD	1:A:1138:THR:HG22	2.12	0.78
2:B:444:LEU:HA	5:E:515:LYS:CD	2.13	0.78
2:B:518:TYR:CE1	5:E:407:TYR:CE2	2.60	0.78
2:B:3139:GLY:HA2	2:B:3695:LEU:HD22	1.66	0.78
3:C:99:GLY:CA	3:C:149:HIS:HE1	1.95	0.78
4:D:83:PRO:HG3	10:J:92:LYS:HD2	1.64	0.78
2:B:1237:ARG:CD	2:B:1260:ALA:HA	2.12	0.78
2:B:1573:CYS:HA	2:B:1577:ARG:HD2	1.64	0.78
1:A:670:LEU:HD21	1:A:772:TRP:CD1	2.17	0.78
1:A:1088:TRP:O	1:A:1092:TRP:HD1	1.66	0.78
2:B:555:LEU:HD21	2:B:625:LEU:HD23	1.64	0.78
2:B:1058:LYS:CB	2:B:1166:GLU:CB	2.59	0.78
3:C:2673:VAL:HA	3:C:2841:THR:HA	1.63	0.78
4:D:262:HIS:HA	5:E:125:GLN:NE2	1.99	0.78
5:E:117:GLU:CB	6:F:17:LEU:HD11	2.13	0.78
6:F:84:SER:CB	6:F:106:ALA:HB2	2.13	0.78
12:L:9:GLY:O	12:L:13:GLU:CG	2.31	0.78
1:A:3257:VAL:HG11	1:A:3266:VAL:HA	1.45	0.78
2:B:555:LEU:CG	2:B:625:LEU:CD2	2.50	0.78
3:C:354:VAL:HG22	3:C:357:ILE:H	1.49	0.78
4:D:111:MET:HE1	15:O:90:ILE:CB	2.13	0.78
4:D:201:GLN:NE2	9:I:102:ASN:CB	2.46	0.78
4:D:585:VAL:CG1	4:D:588:PRO:HD3	2.11	0.78
6:F:50:ALA:HB2	8:H:83:GLN:HG3	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:64:LEU:HB3	7:G:76:TYR:CE2	2.18	0.78
9:I:51:ALA:CB	9:I:52:PRO:CD	2.62	0.78
15:O:30:TYR:N	15:O:31:PRO:CD	2.45	0.78
1:A:590:GLN:HB3	1:A:609:TRP:CZ2	2.17	0.78
1:A:670:LEU:CA	1:A:692:ILE:CD1	2.60	0.78
1:A:1126:VAL:CB	1:A:1131:SER:OG	2.31	0.78
1:A:3297:SER:O	1:A:3343:HIS:CE1	2.36	0.78
2:B:1378:LEU:CA	2:B:1424:GLU:HG2	2.12	0.78
2:B:1492:LYS:HE2	2:B:3606:GLN:OE1	1.79	0.78
3:C:62:LEU:HD12	3:C:62:LEU:O	1.83	0.78
3:C:208:MET:HB2	3:C:296:ILE:HD13	1.65	0.78
3:C:2734:PHE:HE2	3:C:2767:LYS:CE	1.96	0.78
4:D:386:TYR:CD1	4:D:433:LEU:HD11	2.18	0.78
4:D:395:HIS:CD2	4:D:399:VAL:CG1	2.65	0.78
7:G:107:THR:HG21	7:G:137:VAL:HG11	1.65	0.78
1:A:751:LEU:HD22	1:A:866:ILE:HD13	1.64	0.78
1:A:1274:GLY:HA3	4:D:164:ASN:CG	2.04	0.78
1:A:1396:PRO:CB	1:A:1400:TYR:CB	2.62	0.78
2:B:875:ILE:HG23	2:B:937:PHE:HB3	1.64	0.78
2:B:957:GLN:HG2	3:C:164:HIS:NE2	1.94	0.78
3:C:253:LEU:HD12	3:C:253:LEU:O	1.83	0.78
5:E:59:HIS:CD2	10:J:90:HIS:NE2	2.51	0.78
5:E:80:TRP:O	8:H:80:TYR:CE1	2.36	0.78
7:G:58:SER:OG	7:G:62:ASP:HB2	1.82	0.78
10:J:77:HIS:CG	11:K:70:VAL:CG2	2.67	0.78
1:A:3446:ASN:HA	1:A:3488:LEU:HD21	1.64	0.78
3:C:2721:GLU:HA	3:C:2798:PHE:CE1	2.18	0.78
4:D:517:ILE:HD12	4:D:527:ILE:CG1	2.12	0.78
16:P:63:ARG:CB	16:P:119:PRO:CB	2.61	0.78
1:A:113:GLY:O	1:A:116:ASN:N	2.17	0.78
1:A:601:PRO:CG	1:A:698:GLU:HG2	2.12	0.78
1:A:3117:PHE:CD2	1:A:3429:TRP:CE3	2.72	0.78
2:B:99:LEU:O	2:B:101:ASN:N	2.17	0.78
2:B:730:LEU:CD1	2:B:787:LEU:HD12	2.13	0.78
2:B:736:LEU:HA	2:B:855:SER:CB	2.14	0.78
3:C:2701:ILE:CD1	3:C:2704:LYS:HG3	2.13	0.78
5:E:259:ASN:HD22	5:E:299:GLY:N	1.81	0.78
1:A:3215:ILE:HG23	1:A:3219:ASP:OD2	1.83	0.78
1:A:3251:ILE:HG12	17:Q:62:ILE:H	1.49	0.78
2:B:533:ARG:HG2	2:B:534:PRO:CD	2.14	0.78
2:B:1081:GLN:HB3	2:B:1082:PRO:HD3	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1234:GLU:OE1	2:B:1305:LEU:CA	2.26	0.78
3:C:225:GLN:OE1	3:C:225:GLN:N	2.14	0.78
5:E:527:GLU:HA	5:E:530:LYS:HE3	1.63	0.78
12:L:77:ILE:HA	13:M:63:SER:CB	2.13	0.78
18:R:82:ALA:HA	18:R:83:ASN:N	1.98	0.78
1:A:613:LEU:CD2	4:D:523:TRP:CH2	2.66	0.78
1:A:737:TYR:CD1	1:A:759:LEU:HD23	2.19	0.78
1:A:1031:ILE:HA	1:A:1092:TRP:CZ3	2.18	0.78
1:A:1274:GLY:HA3	4:D:164:ASN:CA	2.14	0.78
1:A:3293:PHE:CZ	1:A:3335:TRP:HH2	2.02	0.78
2:B:888:PRO:O	2:B:891:ILE:CG2	2.32	0.78
2:B:1139:LEU:HD21	2:B:1198:ILE:CD1	2.13	0.78
2:B:3203:ALA:HB2	2:B:3370:LYS:CB	2.12	0.78
4:D:68:GLU:HG2	5:E:12:LYS:HA	1.66	0.78
4:D:364:ALA:HB1	4:D:414:PHE:HE1	1.47	0.78
5:E:20:PHE:HE2	15:O:80:LYS:CD	1.95	0.78
10:J:19:LYS:HG2	10:J:28:TRP:CE3	2.18	0.78
1:A:751:LEU:CD2	1:A:866:ILE:HD13	2.14	0.77
1:A:936:GLN:HA	1:A:1081:ILE:CG1	2.08	0.77
1:A:993:LYS:CE	18:R:131:ILE:CB	2.60	0.77
2:B:679:ARG:O	2:B:683:GLU:CG	2.30	0.77
2:B:679:ARG:HB3	5:E:186:PHE:CZ	2.20	0.77
2:B:1117:ILE:O	2:B:1120:THR:OG1	2.00	0.77
2:B:1237:ARG:HD3	2:B:1260:ALA:CA	2.13	0.77
3:C:2666:CYS:CB	3:C:2848:THR:HA	2.11	0.77
4:D:66:LEU:HD22	4:D:66:LEU:H	1.48	0.77
4:D:297:LYS:HZ1	4:D:328:LEU:HB2	1.44	0.77
4:D:386:TYR:CG	4:D:433:LEU:HD11	2.18	0.77
2:B:741:ILE:HG22	2:B:745:GLU:OE2	1.84	0.77
2:B:1139:LEU:CD2	2:B:1198:ILE:CG1	2.61	0.77
2:B:1139:LEU:CD2	2:B:1198:ILE:HG12	2.14	0.77
2:B:2190:LYS:HE3	20:B:5601:ATP:O3G	1.83	0.77
2:B:3261:ILE:HG22	2:B:3306:ILE:CG2	2.13	0.77
3:C:25:THR:HG21	3:C:87:SER:HB2	1.65	0.77
3:C:159:TYR:HB3	3:C:177:LEU:HD11	1.66	0.77
4:D:299:VAL:HG11	4:D:605:GLY:HA3	1.67	0.77
5:E:48:ILE:HB	12:L:88:PHE:CE2	2.19	0.77
6:F:26:PHE:CE1	6:F:49:ALA:CA	2.67	0.77
8:H:66:GLY:N	9:I:56:ILE:HG21	1.99	0.77
14:N:116:ALA:C	15:O:131:PHE:HE1	1.86	0.77
1:A:1140:GLU:OE2	4:D:165:LYS:HE3	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1531:ILE:HD12	2:B:1595:LEU:CD1	2.13	0.77
3:C:29:VAL:CG1	3:C:95:MET:SD	2.72	0.77
3:C:2690:LEU:CB	3:C:2826:VAL:CG2	2.60	0.77
4:D:640:LYS:HE2	4:D:640:LYS:HA	1.66	0.77
5:E:23:THR:HG22	14:N:88:TYR:HD1	1.48	0.77
1:A:1396:PRO:C	1:A:1400:TYR:CB	2.53	0.77
2:B:1444:LEU:O	2:B:1448:GLU:HG3	1.85	0.77
3:C:2720:PRO:C	3:C:2798:PHE:HZ	1.87	0.77
4:D:553:TYR:HE1	4:D:595:PHE:CZ	2.02	0.77
8:H:88:LEU:O	8:H:88:LEU:HD12	1.82	0.77
1:A:1132:LEU:O	1:A:1272:LEU:CD1	2.29	0.77
2:B:1058:LYS:HG3	2:B:1166:GLU:C	2.04	0.77
2:B:1450:TRP:C	2:B:1454:GLN:HG3	2.05	0.77
2:B:1607:PRO:HB2	2:B:1946:SER:OG	1.83	0.77
2:B:2333:PRO:CB	20:B:5601:ATP:C6	2.66	0.77
2:B:3118:TYR:OH	2:B:3452:LEU:HB2	1.85	0.77
2:B:3133:ILE:HG12	2:B:3440:LEU:HD12	1.64	0.77
3:C:53:PRO:HG2	3:C:81:PRO:HB3	1.65	0.77
1:A:1013:VAL:HG13	1:A:1076:LEU:HD11	1.65	0.77
1:A:1048:TYR:HD1	1:A:1100:LEU:HD12	1.50	0.77
1:A:2872:GLY:HA2	19:A:4901:ADP:O2A	1.85	0.77
2:B:356:GLN:CB	2:B:419:PHE:CE1	2.67	0.77
2:B:581:ASN:OD1	2:B:581:ASN:O	2.01	0.77
2:B:745:GLU:O	2:B:749:LYS:HG3	1.85	0.77
2:B:3118:TYR:HD2	2:B:3455:SER:OG	1.57	0.77
3:C:218:GLY:HA3	3:C:253:LEU:HD21	1.66	0.77
3:C:2725:ALA:O	3:C:2729:LEU:CG	2.31	0.77
5:E:42:GLN:HE22	12:L:91:ASN:ND2	1.82	0.77
10:J:38:GLU:CG	15:O:29:PHE:CZ	2.67	0.77
2:B:578:LEU:H	2:B:578:LEU:HD12	1.48	0.77
2:B:1068:LYS:CB	2:B:1084:LYS:HE2	2.15	0.77
2:B:1455:VAL:HG12	2:B:1456:PHE:N	2.00	0.77
2:B:3119:LYS:NZ	2:B:3119:LYS:HB3	1.99	0.77
3:C:53:PRO:CG	3:C:81:PRO:CB	2.62	0.77
3:C:111:THR:HG21	3:C:187:TRP:CZ3	2.19	0.77
3:C:2745:LYS:HE3	3:C:2749:VAL:HG11	0.84	0.77
14:N:89:GLN:HE21	14:N:94:ASP:CG	1.88	0.77
1:A:552:PHE:HA	1:A:568:ARG:HH12	1.47	0.77
1:A:847:PHE:HZ	1:A:851:LYS:NZ	1.82	0.77
2:B:1058:LYS:HG3	2:B:1166:GLU:O	1.83	0.77
2:B:3230:ALA:HB1	2:B:3342:ASN:CG	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:113:ILE:HD13	3:C:185:PHE:CZ	2.20	0.77
4:D:111:MET:CE	15:O:90:ILE:CB	2.62	0.77
4:D:426:TRP:CZ3	4:D:435:PRO:HB3	2.19	0.77
6:F:48:ILE:HD11	6:F:98:LEU:HD22	1.56	0.77
8:H:12:LYS:HG2	8:H:80:TYR:HE2	1.45	0.77
1:A:1458:MET:SD	1:A:1548:TRP:CD1	2.78	0.77
2:B:581:ASN:ND2	5:E:184:MET:HE3	1.99	0.77
2:B:1604:LYS:O	2:B:1945:GLN:OE1	2.02	0.77
3:C:85:HIS:H	3:C:85:HIS:CD2	2.02	0.77
3:C:3970:LEU:HD23	3:C:3990:LEU:HD21	1.66	0.77
6:F:26:PHE:CD1	6:F:49:ALA:CB	2.67	0.77
1:A:3251:ILE:N	17:Q:60:ASN:H	1.83	0.77
2:B:718:ILE:CD1	2:B:773:VAL:HB	2.12	0.77
2:B:1531:ILE:HG21	2:B:1595:LEU:CD1	2.14	0.77
3:C:180:LEU:HD22	3:C:187:TRP:CE3	2.20	0.77
3:C:2721:GLU:HA	3:C:2798:PHE:CZ	2.20	0.77
4:D:116:ILE:HD11	5:E:43:ARG:NH1	2.00	0.77
4:D:236:MET:CB	7:G:143:PHE:CZ	2.68	0.77
4:D:251:MET:CG	7:G:136:MET:CE	2.63	0.77
1:A:598:ARG:NH1	4:D:546:VAL:HG12	2.00	0.76
1:A:971:ASN:CB	1:A:983:ALA:HA	2.15	0.76
2:B:53:ILE:CB	2:B:90:ALA:HB2	2.16	0.76
3:C:165:GLY:N	3:C:174:PHE:CE2	2.50	0.76
4:D:81:GLN:OE1	15:O:110:TYR:CZ	2.37	0.76
4:D:184:GLY:HA2	11:K:69:TYR:HD1	1.48	0.76
10:J:35:ASP:HB2	15:O:32:SER:HB3	1.65	0.76
1:A:332:PRO:CA	1:A:380:ARG:CB	2.62	0.76
1:A:550:HIS:CB	4:D:654:ASN:O	2.33	0.76
1:A:933:VAL:HG22	1:A:951:ILE:HD11	1.68	0.76
1:A:1031:ILE:HA	1:A:1092:TRP:CH2	2.21	0.76
1:A:1126:VAL:HG22	1:A:1131:SER:OG	1.83	0.76
1:A:3099:TYR:CD1	1:A:3447:VAL:HG12	2.21	0.76
1:A:3236:ILE:HG21	1:A:3333:LEU:N	2.00	0.76
1:A:3257:VAL:CG2	1:A:3266:VAL:HG12	1.90	0.76
2:B:676:SER:O	2:B:679:ARG:HG2	1.84	0.76
2:B:993:TYR:OH	2:B:1067:ILE:HG23	1.84	0.76
3:C:2800:PRO:HA	3:C:2814:CYS:HB3	1.65	0.76
5:E:43:ARG:O	12:L:90:ALA:CB	2.31	0.76
5:E:263:GLU:HB3	5:E:264:PRO:CD	2.12	0.76
1:A:674:LEU:HD12	1:A:675:ILE:HG23	1.65	0.76
1:A:801:ILE:CB	1:A:862:LEU:CD2	2.58	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1139:LEU:HD21	2:B:1198:ILE:HD11	1.68	0.76
2:B:3264:ASN:CG	2:B:3303:GLU:OE1	2.24	0.76
3:C:250:LYS:HG3	3:C:273:VAL:CG1	2.15	0.76
3:C:1014:ILE:HD11	3:C:1037:LEU:HD12	1.67	0.76
5:E:366:HIS:HE1	5:E:394:TRP:HH2	1.32	0.76
11:K:77:PHE:HD1	11:K:90:TYR:CB	1.95	0.76
1:A:723:PHE:CD1	1:A:772:TRP:HZ2	2.01	0.76
2:B:444:LEU:CD1	2:B:527:PHE:CE1	2.56	0.76
2:B:1607:PRO:HB3	2:B:1946:SER:CB	2.06	0.76
2:B:3231:VAL:CG2	2:B:3342:ASN:HB3	2.15	0.76
3:C:2013:GLY:HA2	19:C:4702:ADP:O2A	1.86	0.76
3:C:2735:ASN:HB3	3:C:2757:LEU:CA	2.10	0.76
1:A:53:ILE:HA	1:A:54:PHE:N	2.00	0.76
1:A:806:ILE:HD11	1:A:890:TYR:CD2	2.20	0.76
4:D:238:SER:O	4:D:239:THR:N	2.17	0.76
4:D:248:MET:CE	7:G:147:VAL:CG2	2.62	0.76
4:D:367:LEU:HD21	4:D:371:THR:OG1	1.84	0.76
8:H:57:TRP:CZ3	8:H:88:LEU:HD13	2.19	0.76
14:N:75:GLN:HB3	15:O:93:GLN:HG3	0.81	0.76
1:A:1030:SER:O	1:A:1092:TRP:CZ2	2.38	0.76
1:A:1433:LEU:HD11	1:A:1490:PHE:CD1	2.19	0.76
1:A:1595:LYS:HD2	1:A:1681:GLU:OE1	1.86	0.76
2:B:900:PHE:CZ	2:B:933:TRP:HH2	2.03	0.76
2:B:1395:LEU:HA	2:B:1430:ILE:CD1	2.16	0.76
2:B:1511:VAL:CG2	2:B:1570:VAL:CG1	2.64	0.76
2:B:1610:TYR:CD2	2:B:1942:GLY:HA2	2.20	0.76
2:B:3301:ASN:CB	2:B:3351:LYS:HZ1	1.98	0.76
3:C:379:LYS:HA	3:C:419:GLU:HA	1.66	0.76
3:C:1333:VAL:HG12	3:C:1340:GLN:HE21	1.51	0.76
4:D:177:ASN:ND2	13:M:60:ASN:HB3	1.95	0.76
4:D:247:ILE:HD13	5:E:129:LEU:HD22	1.67	0.76
5:E:50:LEU:HD21	12:L:23:PHE:CB	2.16	0.76
6:F:11:LEU:CD2	6:F:23:TYR:CD1	2.63	0.76
1:A:473:LEU:C	1:A:478:LEU:CB	2.54	0.76
1:A:3120:GLY:HA2	1:A:3696:LEU:HD13	1.67	0.76
1:A:3261:LYS:HG2	1:A:3262:GLU:N	2.01	0.76
2:B:970:ALA:HB2	3:C:345:TRP:CH2	2.19	0.76
2:B:2333:PRO:HB3	20:B:5601:ATP:N1	1.96	0.76
3:C:2727:ILE:HD11	3:C:2745:LYS:CB	2.14	0.76
5:E:46:ASN:C	12:L:88:PHE:CE1	2.59	0.76
6:F:62:VAL:CG2	7:G:106:LEU:HD11	2.10	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:32:ILE:HD11	8:H:81:VAL:HG11	1.67	0.76
14:N:25:PHE:CE1	14:N:103:ILE:HG23	1.87	0.76
1:A:607:ILE:HD11	1:A:655:PHE:HA	1.66	0.76
1:A:801:ILE:HB	1:A:862:LEU:CD2	2.15	0.76
2:B:762:ILE:CG2	2:B:766:ILE:CG1	2.61	0.76
2:B:1566:ASN:HB3	3:C:2275:LYS:HE2	1.66	0.76
3:C:1983:THR:CB	19:C:4702:ADP:HN62	1.96	0.76
4:D:76:GLU:N	15:O:102:LEU:HD21	2.00	0.76
5:E:59:HIS:CD2	10:J:90:HIS:CE1	2.70	0.76
5:E:391:CYS:SG	5:E:427:LEU:CD1	2.74	0.76
5:E:394:TRP:NE1	5:E:401:PRO:HB3	2.00	0.76
6:F:14:LEU:HD21	6:F:23:TYR:CB	1.97	0.76
13:M:7:VAL:HG12	13:M:75:PHE:CB	2.16	0.76
1:A:1041:ASN:HA	1:A:1047:ASN:HD21	1.51	0.76
1:A:3261:LYS:HG3	1:A:3324:LYS:HE3	1.67	0.76
2:B:1465:LYS:HD2	2:B:1561:SER:HA	1.68	0.76
2:B:3445:LYS:CB	2:B:3487:PRO:HB3	2.14	0.76
3:C:217:PHE:CE1	3:C:246:HIS:HB2	2.21	0.76
3:C:2740:ILE:HG21	3:C:2744:LYS:CG	2.14	0.76
1:A:853:VAL:HG11	5:E:206:ASN:CG	2.04	0.76
1:A:1536:LEU:HD12	1:A:1536:LEU:N	2.01	0.76
2:B:1317:LEU:HA	16:P:61:GLU:HA	1.55	0.76
2:B:1467:PHE:HB3	2:B:1470:LEU:CG	2.15	0.76
4:D:80:PRO:CG	15:O:103:TRP:CE2	2.68	0.76
4:D:584:ILE:HG21	4:D:614:VAL:HG21	1.61	0.76
5:E:57:SER:O	10:J:90:HIS:CG	2.39	0.76
5:E:261:HIS:HE1	5:E:283:SER:HB3	1.50	0.76
5:E:355:ILE:HD12	5:E:355:ILE:N	2.01	0.76
1:A:1429:ILE:CG2	1:A:1490:PHE:HZ	1.98	0.75
1:A:1634:ILE:HD13	1:A:1656:ILE:CG2	2.17	0.75
1:A:3232:ILE:CG2	1:A:3316:TRP:HE3	1.98	0.75
1:A:3442:LYS:HD2	1:A:3485:THR:CA	2.16	0.75
3:C:39:LEU:H	3:C:53:PRO:HA	1.51	0.75
4:D:360:ALA:CB	5:E:133:PHE:CZ	2.57	0.75
4:D:543:MET:SD	4:D:563:MET:CG	2.74	0.75
5:E:259:ASN:ND2	5:E:299:GLY:N	2.34	0.75
1:A:872:ASP:OD1	1:A:873:PRO:CD	2.33	0.75
1:A:971:ASN:HB3	1:A:983:ALA:CA	2.14	0.75
1:A:3251:ILE:N	17:Q:60:ASN:N	2.26	0.75
2:B:531:LEU:HD22	2:B:540:LEU:CD1	2.14	0.75
4:D:92:TYR:CD2	13:M:29:LYS:HB2	2.21	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:57:TYR:HA	1:A:103:ASP:HA	1.68	0.75
1:A:119:ILE:O	2:B:107:ASP:O	2.03	0.75
1:A:1026:LEU:HD23	1:A:1026:LEU:O	1.86	0.75
1:A:3237:MET:SD	1:A:3332:ILE:HD13	2.26	0.75
2:B:544:HIS:CE1	2:B:609:LEU:CD1	2.19	0.75
2:B:963:PHE:CE2	3:C:103:THR:C	2.59	0.75
2:B:1237:ARG:NH2	2:B:1262:ASP:CB	2.49	0.75
4:D:75:LEU:H	4:D:75:LEU:CD2	1.99	0.75
4:D:105:MET:CE	14:N:51:ILE:HD12	2.16	0.75
8:H:46:LYS:CE	9:I:86:ASP:HB2	2.03	0.75
12:L:21:ILE:HG21	12:L:24:ASN:HB2	1.68	0.75
2:B:603:ILE:CD1	2:B:626:TYR:CZ	2.70	0.75
2:B:1474:MET:HE2	2:B:1515:VAL:HG12	1.67	0.75
2:B:3164:VAL:HG12	2:B:3409:ALA:HB2	1.67	0.75
4:D:175:THR:OG1	13:M:60:ASN:CA	2.34	0.75
5:E:129:LEU:HD11	6:F:80:ARG:CD	2.16	0.75
6:F:84:SER:CB	6:F:106:ALA:CB	2.65	0.75
14:N:116:ALA:C	15:O:131:PHE:CE1	2.59	0.75
2:B:956:LEU:HD12	2:B:959:ILE:CD1	2.09	0.75
2:B:1329:PRO:CB	2:B:1412:PHE:CB	2.64	0.75
2:B:3264:ASN:HB2	2:B:3306:ILE:HD13	1.67	0.75
3:C:180:LEU:HD23	3:C:187:TRP:CZ2	2.21	0.75
4:D:163:ARG:HD3	12:L:73:GLU:OE2	1.86	0.75
4:D:367:LEU:HG	4:D:371:THR:OG1	1.60	0.75
5:E:384:LEU:CG	5:E:417:TRP:NE1	2.49	0.75
7:G:111:ARG:O	7:G:114:VAL:CG1	2.34	0.75
1:A:1598:LYS:CD	1:A:1681:GLU:OE2	2.35	0.75
1:A:3350:LYS:CB	1:A:3351:PRO:HD3	2.15	0.75
2:B:422:ARG:NH1	2:B:422:ARG:HB2	2.02	0.75
2:B:1160:ILE:HG21	2:B:1180:GLU:OE2	1.85	0.75
2:B:1374:THR:O	2:B:1420:LEU:CB	2.35	0.75
2:B:3301:ASN:HB3	2:B:3351:LYS:NZ	2.01	0.75
3:C:289:ASP:OD2	3:C:317:LYS:HE3	1.86	0.75
1:A:397:ILE:CB	1:A:489:LYS:O	2.33	0.75
1:A:1429:ILE:HG21	1:A:1490:PHE:HZ	1.51	0.75
14:N:73:LEU:O	15:O:95:LEU:HB2	1.86	0.75
1:A:5:LYS:CB	1:A:48:GLU:HA	2.17	0.75
1:A:763:LEU:HD22	1:A:780:TYR:OH	1.86	0.75
1:A:1013:VAL:O	1:A:1016:PHE:CD1	2.40	0.75
1:A:1511:TRP:CA	1:A:1574:LEU:HD13	2.17	0.75
1:A:3236:ILE:CA	1:A:3333:LEU:HD21	2.03	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:731:PRO:O	2:B:735:PRO:CD	2.34	0.75
2:B:1610:TYR:CD2	2:B:1942:GLY:CA	2.70	0.75
2:B:3238:HIS:CE1	2:B:3335:LYS:CG	2.63	0.75
3:C:10:LEU:HD23	3:C:65:ASN:C	2.06	0.75
3:C:176:ASP:CG	3:C:189:ARG:HH11	1.90	0.75
4:D:80:PRO:HG2	15:O:103:TRP:HZ2	1.52	0.75
4:D:517:ILE:CD1	4:D:527:ILE:HG12	2.14	0.75
7:G:114:VAL:HG11	7:G:123:LEU:HG	1.68	0.75
8:H:60:ILE:HG12	9:I:85:TYR:CG	2.21	0.75
9:I:81:GLU:OE1	9:I:102:ASN:HB2	1.86	0.75
10:J:32:CYS:SG	10:J:96:ILE:CG1	2.75	0.75
16:P:16:GLU:CA	16:P:74:LEU:CB	2.64	0.75
1:A:889:TYR:OH	7:G:16:ILE:CB	2.34	0.75
1:A:1458:MET:CE	1:A:1518:TRP:CZ2	2.70	0.75
2:B:881:HIS:NE2	2:B:885:GLN:NE2	2.35	0.75
3:C:261:ILE:CG1	3:C:360:PRO:CB	2.54	0.75
3:C:2800:PRO:CG	3:C:2818:VAL:HG21	2.17	0.75
4:D:91:TYR:HB2	13:M:28:VAL:CG1	2.17	0.75
14:N:72:ILE:CA	15:O:97:ILE:HG12	2.17	0.75
1:A:15:THR:CB	2:B:19:SER:HA	2.16	0.74
1:A:939:GLY:O	1:A:940:ASP:HB2	1.87	0.74
2:B:501:ARG:NH1	4:D:491:GLN:CG	2.45	0.74
3:C:2711:SER:HB3	3:C:2751:TRP:CE2	2.16	0.74
6:F:19:GLY:O	6:F:101:GLN:CA	2.35	0.74
6:F:19:GLY:O	6:F:101:GLN:HA	1.86	0.74
1:A:1458:MET:CE	1:A:1548:TRP:CD1	2.70	0.74
1:A:3298:ILE:CA	1:A:3343:HIS:CE1	2.67	0.74
2:B:545:ILE:HD11	2:B:616:ARG:NH1	2.01	0.74
2:B:1559:MET:HG2	2:B:1577:ARG:HH22	1.51	0.74
4:D:94:ARG:NH2	13:M:78:ASN:ND2	2.35	0.74
5:E:517:LYS:HB3	5:E:517:LYS:HZ2	1.51	0.74
2:B:762:ILE:HG23	2:B:766:ILE:HG13	1.69	0.74
3:C:163:GLY:HA2	3:C:174:PHE:HD2	1.52	0.74
5:E:61:VAL:HG21	10:J:106:LEU:CD2	2.13	0.74
8:H:16:MET:SD	8:H:77:ILE:HB	2.27	0.74
1:A:1020:PHE:CE1	1:A:1069:TYR:CZ	2.75	0.74
2:B:797:PHE:CE1	2:B:871:ILE:HD13	2.22	0.74
2:B:966:LYS:HE2	3:C:84:TYR:OH	1.87	0.74
4:D:174:GLN:HE22	12:L:50:GLU:N	1.86	0.74
1:A:935:VAL:HG12	1:A:1081:ILE:HD12	1.69	0.74
1:A:1560:LYS:HB2	1:A:1563:PRO:HG2	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3229:PRO:CB	1:A:3233:ILE:HG21	2.17	0.74
2:B:938:PHE:CD2	2:B:956:LEU:HD11	2.22	0.74
2:B:1447:ILE:HD11	2:B:1484:LEU:CB	2.18	0.74
2:B:1511:VAL:CG2	2:B:1570:VAL:HG11	2.17	0.74
4:D:66:LEU:HD22	4:D:66:LEU:N	2.03	0.74
4:D:115:TYR:HH	14:N:78:HIS:CD2	1.93	0.74
4:D:567:GLN:CD	4:D:578:LYS:CD	2.55	0.74
1:A:246:TRP:CB	1:A:317:LEU:CB	2.65	0.74
1:A:1637:VAL:CG1	1:A:1653:ILE:HG23	2.18	0.74
1:A:3212:VAL:HG23	1:A:3338:ALA:HB3	1.69	0.74
1:A:3298:ILE:HA	1:A:3343:HIS:CE1	2.23	0.74
2:B:679:ARG:CA	5:E:186:PHE:HZ	2.01	0.74
2:B:871:ILE:CG1	2:B:944:ILE:CD1	2.47	0.74
3:C:2746:PRO:HD2	3:C:2747:LYS:N	1.95	0.74
4:D:294:GLN:NE2	4:D:294:GLN:HA	2.02	0.74
7:G:137:VAL:HG22	7:G:146:ILE:HG12	1.70	0.74
9:I:27:SER:HB2	9:I:96:PHE:HB3	1.69	0.74
2:B:410:ASN:O	2:B:414:VAL:CG2	2.35	0.74
3:C:214:LEU:HD12	3:C:232:TYR:O	1.86	0.74
3:C:2730:LEU:HD23	3:C:2738:ILE:CD1	2.17	0.74
4:D:106:ILE:CG1	15:O:99:SER:O	2.36	0.74
4:D:351:MET:HA	4:D:351:MET:CE	2.17	0.74
5:E:334:LEU:HD22	5:E:375:ARG:HH21	1.52	0.74
10:J:77:HIS:CE1	11:K:70:VAL:HG22	2.23	0.74
1:A:704:ARG:HD2	4:D:478:GLU:HG2	1.70	0.74
1:A:1133:GLY:N	1:A:1272:LEU:HD11	2.01	0.74
3:C:29:VAL:HG11	3:C:95:MET:SD	2.27	0.74
3:C:180:LEU:CD2	3:C:187:TRP:CH2	2.71	0.74
3:C:180:LEU:CD2	3:C:187:TRP:CZ3	2.70	0.74
5:E:110:LYS:HA	6:F:10:GLN:HG2	1.69	0.74
14:N:115:MET:CE	15:O:129:CYS:SG	2.76	0.74
1:A:852:ASN:ND2	1:A:969:LEU:HA	2.03	0.74
1:A:1066:VAL:CG1	1:A:1068:THR:O	2.36	0.74
2:B:660:LEU:CB	2:B:755:ILE:HD12	2.14	0.74
2:B:667:ASP:H	2:B:726:LYS:HE3	1.50	0.74
2:B:957:GLN:OE1	3:C:164:HIS:CE1	2.40	0.74
3:C:2708:GLN:CD	3:C:2813:ILE:CD1	2.57	0.74
3:C:2711:SER:O	3:C:2751:TRP:CZ2	2.37	0.74
4:D:89:TYR:CE2	11:K:56:PRO:HD3	2.23	0.74
10:J:74:PRO:HD3	12:L:102:ARG:CZ	2.18	0.74
2:B:410:ASN:O	2:B:414:VAL:HG23	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:583:PRO:CB	2:B:683:GLU:HG2	2.17	0.74
2:B:794:LEU:C	2:B:797:PHE:CD2	2.61	0.74
2:B:957:GLN:CD	3:C:164:HIS:NE2	2.40	0.74
2:B:1080:LEU:HD12	2:B:1080:LEU:N	2.03	0.74
4:D:243:ARG:HG3	5:E:131:GLU:OE2	1.88	0.74
1:A:751:LEU:O	1:A:751:LEU:HD23	1.88	0.73
2:B:425:ASP:O	2:B:489:PHE:CZ	2.41	0.73
2:B:660:LEU:CG	2:B:755:ILE:CD1	2.66	0.73
2:B:1488:LYS:CB	2:B:1501:VAL:CB	2.65	0.73
3:C:96:LEU:HD12	3:C:96:LEU:O	1.88	0.73
3:C:2927:ASP:HB3	3:C:2974:ILE:HG21	1.70	0.73
4:D:241:PHE:CZ	7:G:78:ILE:HD12	2.19	0.73
4:D:297:LYS:CE	4:D:316:LEU:HD23	2.02	0.73
5:E:99:ILE:HD12	6:F:31:ILE:CD1	2.17	0.73
5:E:100:GLU:OE1	6:F:34:LYS:NZ	2.15	0.73
5:E:282:THR:HG22	5:E:288:VAL:HG22	1.68	0.73
1:A:3141:GLU:O	1:A:3145:LEU:HG	1.87	0.73
2:B:589:LEU:CD1	2:B:687:PHE:CZ	2.71	0.73
2:B:1002:GLN:HA	2:B:1094:TRP:CE2	2.23	0.73
3:C:220:TRP:HB2	3:C:251:TRP:HB2	1.69	0.73
6:F:19:GLY:O	6:F:101:GLN:CB	2.37	0.73
12:L:16:LEU:HD12	12:L:17:PRO:HD2	0.87	0.73
1:A:1066:VAL:HB	1:A:1069:TYR:CZ	2.23	0.73
2:B:1116:PHE:CA	2:B:1119:LYS:NZ	2.52	0.73
2:B:3067:ILE:HD11	2:B:3119:LYS:HD2	1.68	0.73
2:B:3342:ASN:O	2:B:3346:PHE:HB2	1.88	0.73
3:C:2740:ILE:CD1	3:C:2744:LYS:HD3	2.17	0.73
5:E:45:PRO:HA	12:L:89:ASP:HA	1.68	0.73
5:E:59:HIS:HD2	10:J:90:HIS:NE2	1.85	0.73
5:E:355:ILE:HD12	5:E:355:ILE:H	1.53	0.73
5:E:394:TRP:NE1	5:E:401:PRO:CA	2.51	0.73
1:A:997:LYS:HD3	18:R:149:LEU:HA	0.74	0.73
1:A:1416:ILE:O	1:A:1420:THR:HG23	1.88	0.73
1:A:1433:LEU:HD21	1:A:1481:PHE:HD2	1.54	0.73
2:B:356:GLN:CB	2:B:419:PHE:CZ	2.71	0.73
2:B:1511:VAL:HA	2:B:1570:VAL:HG13	1.70	0.73
2:B:1511:VAL:HG23	2:B:1570:VAL:HG11	1.70	0.73
3:C:159:TYR:CD1	3:C:179:VAL:HG21	2.23	0.73
3:C:2581:LEU:HD12	3:C:2936:SER:HB2	1.69	0.73
5:E:42:GLN:NE2	12:L:91:ASN:HD21	1.86	0.73
5:E:55:GLU:OE1	10:J:92:LYS:HD3	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1031:ILE:HG22	1:A:1031:ILE:O	1.88	0.73
2:B:1566:ASN:HB3	3:C:2275:LYS:HE3	1.68	0.73
2:B:3301:ASN:CG	2:B:3351:LYS:NZ	2.32	0.73
2:B:3301:ASN:HD21	2:B:3351:LYS:HG2	1.54	0.73
5:E:72:GLY:HA3	8:H:68:PHE:CD2	2.23	0.73
1:A:1450:TRP:CD1	1:A:1518:TRP:CZ3	2.77	0.73
1:A:1632:ASP:CB	1:A:1892:PHE:CE1	2.63	0.73
2:B:409:SER:C	2:B:413:PHE:HB2	2.09	0.73
2:B:2188:SER:O	20:B:5601:ATP:O3A	2.06	0.73
1:A:8:LYS:CB	1:A:109:SER:CB	2.66	0.73
1:A:594:PRO:HB3	1:A:609:TRP:CZ3	2.24	0.73
1:A:598:ARG:HB2	4:D:504:TYR:HE1	1.52	0.73
1:A:3257:VAL:CB	1:A:3266:VAL:CG1	2.35	0.73
2:B:3143:LEU:CD2	2:B:3698:LEU:CD1	2.67	0.73
3:C:159:TYR:HD1	3:C:179:VAL:HG22	1.36	0.73
3:C:265:LYS:CE	3:C:356:THR:CG2	2.42	0.73
4:D:175:THR:OG1	13:M:60:ASN:C	2.27	0.73
4:D:501:LEU:HB2	4:D:522:ASP:HB2	1.69	0.73
1:A:1007:GLN:HA	1:A:1010:LYS:HE2	1.70	0.73
1:A:3042:PHE:CE2	1:A:3100:LYS:HE2	2.22	0.73
5:E:110:LYS:O	5:E:114:GLU:HG3	1.88	0.73
8:H:66:GLY:HA2	9:I:56:ILE:CG2	2.13	0.73
10:J:48:LEU:HD12	10:J:100:ILE:CD1	2.18	0.73
1:A:1638:THR:HG21	1:A:1655:GLN:HE21	0.61	0.73
1:A:3046:PHE:HE2	1:A:3104:ILE:HD11	1.52	0.73
2:B:59:THR:O	2:B:81:ILE:CA	2.36	0.73
2:B:532:THR:CG2	2:B:536:ILE:HG13	2.13	0.73
2:B:3125:LYS:HE2	2:B:3447:MET:HB3	1.71	0.73
4:D:526:ARG:HB2	4:D:528:TRP:CZ2	2.24	0.73
6:F:19:GLY:HA2	6:F:107:ILE:HD11	1.71	0.73
2:B:603:ILE:HD12	2:B:626:TYR:CZ	2.24	0.73
2:B:715:LEU:O	2:B:719:VAL:HG23	1.89	0.73
2:B:963:PHE:CE2	3:C:103:THR:CA	2.72	0.73
2:B:1444:LEU:HD21	2:B:1501:VAL:HG22	1.69	0.73
2:B:1467:PHE:CD2	2:B:1560:MET:SD	2.82	0.73
3:C:2726:THR:HA	3:C:2729:LEU:HD12	0.73	0.73
4:D:75:LEU:HD12	15:O:102:LEU:CD1	2.18	0.73
15:O:90:ILE:HD12	15:O:90:ILE:O	1.89	0.73
1:A:635:ARG:HA	1:A:638:TYR:CD2	2.24	0.72
1:A:899:LEU:CD1	1:A:992:ASP:OD2	2.35	0.72
1:A:935:VAL:CG2	1:A:944:LEU:HD21	2.01	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:521:PHE:CE2	2:B:605:LYS:HB3	2.24	0.72
2:B:725:ILE:HG23	2:B:780:VAL:HG21	1.69	0.72
2:B:1567:PRO:HD3	3:C:2275:LYS:HE3	1.71	0.72
3:C:2726:THR:CA	3:C:2729:LEU:HD11	2.14	0.72
4:D:367:LEU:CD1	4:D:368:TYR:O	2.36	0.72
12:L:21:ILE:HD13	12:L:96:PHE:HB3	1.68	0.72
14:N:115:MET:HE2	15:O:129:CYS:CB	2.19	0.72
1:A:1596:ARG:HG2	1:A:1603:TYR:CE2	2.23	0.72
2:B:603:ILE:CD1	2:B:626:TYR:CE1	2.72	0.72
2:B:861:ASP:HB3	3:C:170:GLN:CA	2.19	0.72
2:B:1119:LYS:CB	2:B:1138:LYS:NZ	2.50	0.72
2:B:1456:PHE:CD1	2:B:1456:PHE:O	2.42	0.72
3:C:214:LEU:H	3:C:214:LEU:HD13	1.54	0.72
3:C:2794:ASN:N	3:C:2796:PRO:HD3	2.05	0.72
4:D:216:HIS:HA	4:D:217:GLN:N	2.04	0.72
4:D:294:GLN:CD	4:D:297:LYS:HE2	2.04	0.72
6:F:26:PHE:CE1	6:F:49:ALA:HB2	2.24	0.72
8:H:62:GLY:HA3	9:I:82:GLY:O	1.89	0.72
14:N:116:ALA:O	15:O:131:PHE:CE1	2.41	0.72
1:A:853:VAL:HB	5:E:206:ASN:HD21	0.79	0.72
1:A:854:GLU:CG	5:E:205:PRO:HG2	2.19	0.72
1:A:1130:ASP:HB3	1:A:1265:ILE:CB	2.19	0.72
2:B:583:PRO:HB2	2:B:586:ALA:HB3	1.72	0.72
2:B:871:ILE:HD11	2:B:944:ILE:HD11	1.71	0.72
3:C:360:PRO:HG2	3:C:361:PRO:CD	2.18	0.72
3:C:2606:GLY:HA3	3:C:2910:TRP:CZ3	2.25	0.72
5:E:50:LEU:HD13	12:L:95:PHE:HB2	1.69	0.72
1:A:63:ALA:O	1:A:95:PHE:CB	2.37	0.72
1:A:597:VAL:HB	1:A:600:MET:CG	2.17	0.72
1:A:730:LEU:HD21	1:A:781:LEU:CD2	2.17	0.72
1:A:737:TYR:CD1	1:A:759:LEU:CD2	2.72	0.72
1:A:936:GLN:CA	1:A:1081:ILE:HG13	2.11	0.72
1:A:1126:VAL:CG1	1:A:1201:TYR:OH	2.37	0.72
1:A:1427:LEU:O	1:A:1431:THR:HG23	1.88	0.72
1:A:1487:VAL:HG23	1:A:1490:PHE:HE1	1.51	0.72
1:A:1634:ILE:HD13	1:A:1656:ILE:HG23	1.71	0.72
2:B:575:ASN:HB2	5:E:481:GLN:NE2	2.04	0.72
2:B:1116:PHE:HA	2:B:1119:LYS:HZ2	1.51	0.72
2:B:1567:PRO:HD2	3:C:2275:LYS:CE	2.20	0.72
2:B:3454:ALA:HB2	2:B:3497:ILE:HG21	1.71	0.72
3:C:143:PRO:HG3	3:C:187:TRP:CZ2	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:90:ASP:OD1	13:M:32:LYS:CB	2.38	0.72
4:D:109:PHE:CE2	15:O:121:TYR:CE2	2.76	0.72
9:I:90:GLN:HB2	9:I:93:THR:HG21	1.71	0.72
1:A:97:ARG:O	1:A:121:GLY:HA2	1.90	0.72
2:B:433:ILE:CB	2:B:463:PHE:HZ	2.01	0.72
2:B:3300:GLU:CD	2:B:3354:LYS:NZ	2.42	0.72
3:C:2711:SER:CB	3:C:2751:TRP:CH2	2.68	0.72
7:G:58:SER:O	7:G:62:ASP:HB3	1.87	0.72
8:H:13:ASN:O	8:H:78:TYR:HB3	1.89	0.72
12:L:93:LEU:HD13	12:L:108:PHE:HB3	1.71	0.72
13:M:14:GLU:OE1	13:M:14:GLU:N	2.20	0.72
1:A:1066:VAL:HG12	1:A:1068:THR:O	1.89	0.72
1:A:1111:LEU:O	1:A:1115:THR:HG23	1.89	0.72
2:B:886:ILE:HD13	2:B:972:ILE:HG23	1.72	0.72
3:C:200:ARG:HB2	3:C:219:GLY:HA3	1.71	0.72
3:C:2366:LYS:HE2	19:C:4703:ADP:O3B	1.88	0.72
4:D:473:LEU:HD23	4:D:483:LYS:HA	1.71	0.72
6:F:28:GLU:N	6:F:28:GLU:OE1	2.18	0.72
1:A:1482:ASN:HA	1:A:1487:VAL:HG11	1.70	0.72
1:A:3222:GLU:HB3	1:A:3328:ALA:CB	2.17	0.72
3:C:53:PRO:CG	3:C:81:PRO:HB3	2.20	0.72
3:C:293:VAL:HG21	3:C:304:ILE:HD12	1.70	0.72
3:C:2581:LEU:CD1	3:C:2937:TYR:CE2	2.73	0.72
4:D:386:TYR:CE1	5:E:142:VAL:CG1	2.72	0.72
4:D:514:ARG:HB2	4:D:530:SER:HB2	1.71	0.72
6:F:81:THR:HB	7:G:121:ASN:OD1	1.89	0.72
10:J:61:ALA:CA	10:J:80:PHE:CE2	2.69	0.72
13:M:2:ASN:HD21	13:M:77:ILE:HD11	1.53	0.72
1:A:1263:TYR:CD2	1:A:1283:LEU:CB	2.73	0.72
1:A:1433:LEU:CD1	1:A:1490:PHE:CE1	2.72	0.72
2:B:726:LYS:O	2:B:726:LYS:HD3	1.90	0.72
2:B:1129:ALA:HA	2:B:1132:GLU:CD	2.09	0.72
2:B:1208:LYS:HA	2:B:1208:LYS:CE	2.20	0.72
3:C:5:LEU:HD12	3:C:355:SER:H	1.54	0.72
5:E:26:ARG:O	14:N:85:ILE:HG22	1.90	0.72
1:A:3306:LEU:HD13	1:A:3310:LEU:HG	1.71	0.72
2:B:81:ILE:C	2:B:110:VAL:HA	2.09	0.72
2:B:501:ARG:NH2	4:D:491:GLN:CD	2.43	0.72
5:E:15:ASN:C	15:O:132:GLU:HG2	2.10	0.72
5:E:117:GLU:HG3	6:F:17:LEU:HD11	0.72	0.72
9:I:35:LEU:HD22	9:I:95:LEU:HD13	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:89:LEU:HD12	11:K:89:LEU:O	1.90	0.72
1:A:818:LEU:HA	1:A:844:LYS:HE3	1.71	0.72
1:A:3257:VAL:HG13	1:A:3266:VAL:HA	1.72	0.72
2:B:682:LYS:HZ2	5:E:186:PHE:HE1	1.27	0.72
2:B:3231:VAL:O	2:B:3339:TRP:HD1	1.73	0.72
3:C:111:THR:HG21	3:C:187:TRP:HZ3	1.54	0.72
3:C:217:PHE:CZ	3:C:246:HIS:HB2	2.25	0.72
3:C:2721:GLU:CA	3:C:2798:PHE:CZ	2.73	0.72
4:D:110:SER:CB	15:O:96:ARG:HG3	2.20	0.72
4:D:254:GLN:OE1	5:E:126:ILE:HD11	1.90	0.72
5:E:100:GLU:CA	5:E:105:PHE:HD2	2.03	0.72
5:E:446:ILE:HD12	5:E:446:ILE:N	2.01	0.72
8:H:79:LEU:HD12	8:H:79:LEU:O	1.89	0.72
9:I:24:ILE:HD13	9:I:98:PHE:HE1	1.53	0.72
1:A:761:LEU:HD13	1:A:761:LEU:O	1.90	0.71
2:B:3257:ARG:NH2	2:B:3273:ASP:OD1	2.23	0.71
6:F:21:ASN:ND2	6:F:102:LEU:HD11	2.05	0.71
14:N:86:THR:OG1	15:O:83:VAL:CG1	2.37	0.71
15:O:22:LEU:HD11	15:O:23:ASN:CG	2.10	0.71
1:A:601:PRO:CB	1:A:698:GLU:CD	2.53	0.71
1:A:1511:TRP:HA	1:A:1574:LEU:CD1	2.19	0.71
2:B:446:GLY:HA2	5:E:512:GLU:OE2	1.89	0.71
2:B:501:ARG:CZ	4:D:491:GLN:CD	2.53	0.71
2:B:679:ARG:CA	5:E:186:PHE:CZ	2.73	0.71
2:B:713:VAL:HG11	5:E:258:GLU:CB	2.18	0.71
2:B:963:PHE:CD2	3:C:104:SER:N	2.58	0.71
2:B:3301:ASN:ND2	2:B:3351:LYS:HG2	2.05	0.71
3:C:106:LEU:N	3:C:106:LEU:HD12	2.04	0.71
3:C:2673:VAL:HA	3:C:2841:THR:HG22	1.70	0.71
4:D:66:LEU:HD11	4:D:73:LYS:HE2	1.71	0.71
4:D:70:MET:CE	5:E:13:GLU:CB	2.68	0.71
4:D:260:LYS:HB3	4:D:287:TRP:CZ2	2.25	0.71
4:D:269:SER:HB2	4:D:618:PRO:HD3	1.71	0.71
8:H:58:HIS:HD2	9:I:87:VAL:CG1	2.00	0.71
15:O:45:ARG:HG3	15:O:63:LEU:CD1	2.20	0.71
1:A:1609:THR:HG21	1:A:1629:LYS:HE3	1.72	0.71
2:B:789:LYS:HE3	2:B:839:LEU:HD21	1.71	0.71
2:B:799:VAL:CG1	2:B:800:LYS:N	2.52	0.71
2:B:1511:VAL:CA	2:B:1570:VAL:HG22	1.95	0.71
2:B:3301:ASN:CB	2:B:3351:LYS:NZ	2.53	0.71
5:E:75:HIS:CE1	8:H:85:ALA:HB2	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:394:TRP:NE1	5:E:401:PRO:CB	2.54	0.71
5:E:446:ILE:H	5:E:446:ILE:CD1	1.99	0.71
9:I:78:ILE:HD12	9:I:78:ILE:O	1.91	0.71
16:P:10:THR:CB	16:P:66:ILE:O	2.39	0.71
1:A:804:ASN:HD22	5:E:148:LYS:CB	2.01	0.71
1:A:944:LEU:HD11	1:A:1013:VAL:HG11	1.69	0.71
1:A:1012:LYS:NZ	1:A:1071:ILE:HB	2.05	0.71
1:A:3215:ILE:HG23	1:A:3219:ASP:CG	2.11	0.71
1:A:3583:ILE:HG22	1:A:3627:CYS:HA	1.71	0.71
2:B:718:ILE:HD12	2:B:773:VAL:HG11	1.71	0.71
2:B:861:ASP:HB3	3:C:170:GLN:N	2.04	0.71
2:B:969:LEU:HD13	3:C:341:TRP:HZ2	1.56	0.71
3:C:2365:GLY:HA2	19:C:4703:ADP:C3'	2.21	0.71
3:C:2676:GLN:CB	3:C:2837:LEU:O	2.37	0.71
3:C:2698:LEU:CD2	3:C:2768:LEU:HB3	2.19	0.71
4:D:198:ASN:HB3	8:H:39:LYS:HE3	1.72	0.71
5:E:20:PHE:HZ	15:O:80:LYS:HG3	0.90	0.71
12:L:59:LYS:HB2	12:L:59:LYS:NZ	2.06	0.71
1:A:891:PHE:CZ	1:A:985:PHE:CZ	2.78	0.71
1:A:1504:VAL:CG1	1:A:1565:CYS:SG	2.78	0.71
3:C:256:ILE:HB	3:C:326:ILE:HG23	1.72	0.71
10:J:61:ALA:CB	10:J:80:PHE:CZ	2.56	0.71
1:A:841:ILE:O	1:A:845:THR:HG23	1.89	0.71
2:B:409:SER:CA	2:B:413:PHE:CD1	2.48	0.71
2:B:984:ASN:HA	2:B:987:ARG:HG2	1.71	0.71
2:B:1607:PRO:HB2	2:B:1946:SER:CB	2.19	0.71
2:B:3252:VAL:HG22	2:B:3333:ALA:HB2	1.72	0.71
3:C:346:LEU:O	3:C:346:LEU:HD22	1.88	0.71
4:D:170:THR:HG21	13:M:66:ILE:HG12	0.71	0.71
4:D:429:MET:HB2	4:D:432:LYS:O	1.90	0.71
4:D:535:GLN:N	4:D:535:GLN:OE1	2.24	0.71
8:H:28:ALA:HB1	8:H:86:ILE:CD1	2.20	0.71
14:N:85:ILE:HG21	14:N:98:ILE:HD12	1.54	0.71
1:A:1623:ILE:HD11	1:A:1680:ILE:CD1	2.17	0.71
1:A:3110:LEU:CD1	1:A:3443:LEU:HD22	2.14	0.71
2:B:575:ASN:CA	5:E:481:GLN:NE2	2.52	0.71
2:B:744:MET:SD	2:B:772:ILE:HG12	2.28	0.71
2:B:797:PHE:CZ	2:B:871:ILE:HD13	2.26	0.71
2:B:3118:TYR:CE2	2:B:3452:LEU:CB	2.74	0.71
2:B:3248:PRO:HB2	2:B:3253:ILE:HD11	1.73	0.71
5:E:19:ASN:O	14:N:90:ASP:OD2	2.09	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:366:HIS:CE1	5:E:394:TRP:HH2	2.09	0.71
5:E:394:TRP:CD1	5:E:401:PRO:N	2.59	0.71
10:J:48:LEU:HD23	10:J:60:ILE:CD1	2.20	0.71
13:M:57:VAL:HG22	13:M:82:LEU:HG	1.72	0.71
1:A:1143:ARG:CD	4:D:169:ASN:ND2	2.47	0.71
2:B:444:LEU:C	5:E:515:LYS:CG	2.46	0.71
2:B:575:ASN:H	5:E:481:GLN:NE2	1.82	0.71
2:B:729:LEU:HD13	2:B:780:VAL:HG22	1.73	0.71
2:B:1378:LEU:HA	2:B:1424:GLU:HG2	1.72	0.71
2:B:3150:VAL:CG1	2:B:3423:VAL:HG22	2.14	0.71
2:B:3303:GLU:OE1	2:B:3306:ILE:CD1	2.39	0.71
3:C:233:ASP:OD1	3:C:235:GLU:O	2.09	0.71
3:C:2581:LEU:CD1	3:C:2936:SER:CB	2.68	0.71
4:D:424:MET:SD	4:D:437:GLU:HG2	2.31	0.71
10:J:48:LEU:HD22	10:J:53:ILE:HG13	1.72	0.71
10:J:87:GLN:OE1	11:K:44:SER:HB3	1.89	0.71
11:K:30:LYS:C	11:K:30:LYS:HD3	2.11	0.71
12:L:77:ILE:HG23	13:M:63:SER:CB	2.20	0.71
1:A:888:ARG:HH22	7:G:5:THR:CB	2.04	0.71
1:A:1444:GLN:HA	1:A:1561:VAL:N	2.06	0.71
2:B:467:VAL:C	2:B:471:THR:HG1	1.83	0.71
3:C:2606:GLY:CA	3:C:2910:TRP:HZ3	2.04	0.71
4:D:91:TYR:CE1	13:M:80:LEU:HD12	2.25	0.71
6:F:84:SER:HB3	6:F:106:ALA:CB	2.17	0.71
1:A:906:LEU:CD1	1:A:998:VAL:HG21	2.21	0.71
1:A:942:VAL:HG21	1:A:1021:THR:CG2	2.21	0.71
1:A:1126:VAL:HA	1:A:1131:SER:HG	1.50	0.71
2:B:1467:PHE:HB2	2:B:1470:LEU:HD11	1.69	0.71
2:B:3342:ASN:O	2:B:3346:PHE:N	2.22	0.71
3:C:53:PRO:CG	3:C:81:PRO:HB2	2.21	0.71
3:C:244:ILE:HG12	3:C:299:LEU:O	1.90	0.71
5:E:259:ASN:ND2	5:E:298:ALA:C	2.44	0.71
5:E:384:LEU:HD23	5:E:417:TRP:CZ2	2.26	0.71
1:A:806:ILE:CD1	1:A:890:TYR:CD2	2.75	0.70
2:B:477:ILE:O	2:B:477:ILE:HG22	1.91	0.70
2:B:888:PRO:C	2:B:891:ILE:HG22	2.11	0.70
2:B:957:GLN:CG	3:C:164:HIS:NE2	2.53	0.70
2:B:963:PHE:HE2	3:C:103:THR:C	1.90	0.70
5:E:50:LEU:CD1	12:L:95:PHE:CB	2.64	0.70
5:E:58:GLU:HB3	10:J:89:VAL:HA	1.71	0.70
5:E:272:MET:SD	5:E:326:VAL:HG22	2.30	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:10:SER:HB2	14:N:97:LEU:HD11	1.73	0.70
14:N:72:ILE:HG12	15:O:97:ILE:CG1	2.20	0.70
1:A:852:ASN:HD22	1:A:969:LEU:HA	1.55	0.70
1:A:3251:ILE:HG13	17:Q:82:ASN:HA	0.82	0.70
1:A:3306:LEU:HD22	1:A:3309:TYR:HB2	1.73	0.70
2:B:655:LYS:HA	2:B:677:LEU:HD11	1.71	0.70
2:B:904:LEU:HD11	2:B:911:ILE:HG22	1.71	0.70
2:B:3238:HIS:ND1	2:B:3335:LYS:CG	2.51	0.70
3:C:360:PRO:CD	3:C:361:PRO:HD2	2.22	0.70
4:D:180:ILE:O	4:D:180:ILE:HD12	1.91	0.70
4:D:201:GLN:OE1	9:I:102:ASN:HB3	1.89	0.70
4:D:201:GLN:HE22	9:I:102:ASN:CB	2.03	0.70
5:E:82:GLY:CA	8:H:12:LYS:NZ	2.51	0.70
1:A:700:LYS:CE	1:A:720:GLU:OE1	2.30	0.70
1:A:2418:ILE:HG22	1:A:2419:PRO:HD2	1.72	0.70
1:A:3293:PHE:HE1	1:A:3335:TRP:CH2	2.04	0.70
2:B:673:PHE:CZ	2:B:677:LEU:CB	2.74	0.70
2:B:864:ASN:HB3	2:B:947:LEU:HG	1.21	0.70
2:B:883:ASN:HA	2:B:886:ILE:HG22	1.73	0.70
2:B:1058:LYS:HB2	2:B:1166:GLU:HB3	1.68	0.70
2:B:2192:CYS:SG	20:B:5601:ATP:H8	2.12	0.70
3:C:2701:ILE:HD12	3:C:2704:LYS:HE3	1.72	0.70
4:D:201:GLN:HE22	9:I:102:ASN:CA	2.03	0.70
5:E:20:PHE:HA	14:N:90:ASP:CG	2.10	0.70
5:E:20:PHE:CA	14:N:90:ASP:OD1	2.35	0.70
5:E:363:GLN:HG2	5:E:363:GLN:O	1.91	0.70
14:N:85:ILE:HB	14:N:98:ILE:CD1	2.14	0.70
1:A:1443:MET:HG3	1:A:1561:VAL:HG21	1.73	0.70
1:A:1521:LEU:O	1:A:1541:PHE:CE2	2.45	0.70
1:A:3223:LEU:CD1	1:A:3332:ILE:CG1	2.47	0.70
2:B:882:LEU:C	2:B:886:ILE:HG22	2.11	0.70
2:B:899:LEU:CD1	2:B:900:PHE:N	2.52	0.70
2:B:1439:LYS:O	2:B:1443:LYS:HG3	1.91	0.70
3:C:2589:LEU:CB	3:C:2928:VAL:HG11	2.22	0.70
8:H:11:ILE:HA	8:H:79:LEU:HA	1.73	0.70
12:L:77:ILE:HA	13:M:63:SER:HB2	1.72	0.70
1:A:3212:VAL:HG21	1:A:3339:ILE:HG13	1.73	0.70
3:C:2701:ILE:HG13	3:C:2704:LYS:HB2	1.73	0.70
4:D:172:GLU:HB3	13:M:64:HIS:CG	2.25	0.70
4:D:367:LEU:CD1	4:D:371:THR:HG1	1.95	0.70
5:E:100:GLU:HA	5:E:105:PHE:CB	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:261:HIS:HB3	5:E:289:MET:SD	2.31	0.70
1:A:730:LEU:CD2	1:A:781:LEU:CD2	2.70	0.70
1:A:1450:TRP:CZ2	1:A:1519:THR:HG23	2.27	0.70
1:A:3230:LEU:N	1:A:3233:ILE:CG2	2.54	0.70
1:A:3251:ILE:HG12	17:Q:62:ILE:N	2.07	0.70
2:B:57:ASN:CA	2:B:71:CYS:CB	2.69	0.70
2:B:1566:ASN:OD1	3:C:2275:LYS:HD3	1.92	0.70
3:C:195:ASN:C	3:C:239:TRP:CZ2	2.65	0.70
3:C:221:SER:O	3:C:282:ARG:NH2	2.24	0.70
3:C:2014:CYS:SG	3:C:2015:GLY:N	2.64	0.70
3:C:2708:GLN:HE21	3:C:2809:ALA:C	1.95	0.70
3:C:2800:PRO:CD	3:C:2801:GLU:H	1.98	0.70
1:A:801:ILE:HG21	1:A:862:LEU:HG	1.73	0.70
1:A:1449:ILE:CA	1:A:1459:LEU:CD2	2.62	0.70
1:A:1511:TRP:CG	1:A:1574:LEU:HD11	2.27	0.70
1:A:2839:LEU:CD1	19:A:4901:ADP:C5	2.74	0.70
1:A:2872:GLY:CA	19:A:4901:ADP:O2A	2.40	0.70
1:A:3587:VAL:HG11	1:A:3638:LEU:HD13	1.74	0.70
2:B:489:PHE:O	2:B:493:ARG:HG2	1.92	0.70
2:B:1456:PHE:CG	2:B:1467:PHE:HE1	2.08	0.70
3:C:136:ALA:HB2	3:C:168:ASN:HA	1.74	0.70
3:C:2607:LEU:N	3:C:2910:TRP:CZ3	2.58	0.70
4:D:590:LEU:HD23	4:D:604:VAL:HG13	1.71	0.70
5:E:23:THR:HG22	14:N:88:TYR:CD1	2.23	0.70
1:A:3273:TYR:CD1	1:A:3276:SER:N	2.60	0.70
2:B:520:ARG:HH11	2:B:550:MET:HG3	1.55	0.70
4:D:61:LEU:N	14:N:59:ASN:ND2	2.40	0.70
5:E:162:ARG:HD3	5:E:194:PRO:HG2	1.72	0.70
6:F:81:THR:C	7:G:124:VAL:HG23	2.11	0.70
1:A:3702:SER:CB	1:A:3712:LEU:HD11	2.22	0.70
2:B:726:LYS:HD3	2:B:726:LYS:C	2.11	0.70
2:B:3446:SER:HA	2:B:3488:ILE:HA	1.72	0.70
6:F:48:ILE:HD11	6:F:98:LEU:HD21	1.58	0.70
7:G:79:VAL:CG2	7:G:146:ILE:HD12	2.22	0.70
15:O:71:ILE:HG21	15:O:81:ILE:HG21	1.72	0.70
1:A:40:LEU:H	1:A:41:LEU:N	1.90	0.70
1:A:1274:GLY:O	4:D:164:ASN:OD1	2.10	0.70
1:A:1926:PHE:HB3	1:A:1974:ILE:HG23	1.74	0.70
2:B:545:ILE:CD1	2:B:616:ARG:HH11	1.99	0.70
2:B:690:LEU:C	2:B:690:LEU:HD12	2.12	0.70
2:B:957:GLN:OE1	3:C:164:HIS:NE2	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1566:ASN:ND2	3:C:2275:LYS:HD3	2.06	0.70
3:C:196:PRO:CA	3:C:239:TRP:CH2	2.72	0.70
3:C:2365:GLY:O	19:C:4703:ADP:H5'2	1.92	0.70
4:D:80:PRO:HG2	15:O:103:TRP:CZ2	2.24	0.70
4:D:92:TYR:CD2	13:M:29:LYS:CB	2.74	0.70
4:D:109:PHE:CD2	15:O:121:TYR:CD2	2.80	0.70
4:D:517:ILE:CD1	4:D:550:TRP:CZ2	2.73	0.70
5:E:272:MET:SD	5:E:326:VAL:CG2	2.80	0.70
11:K:39:GLU:N	11:K:39:GLU:OE1	2.24	0.70
1:A:817:VAL:C	1:A:818:LEU:HD12	2.11	0.69
1:A:819:VAL:HG21	1:A:905:SER:HB2	1.74	0.69
1:A:1100:LEU:HD22	1:A:1163:LEU:HB2	1.74	0.69
1:A:1597:LYS:CE	1:A:1962:ILE:HD11	2.22	0.69
2:B:500:GLU:HG2	2:B:532:THR:HG21	1.73	0.69
2:B:935:ASN:CB	3:C:283:THR:CG2	2.70	0.69
2:B:1471:ASP:OD1	2:B:1472:ASN:N	2.24	0.69
2:B:3143:LEU:HD23	2:B:3698:LEU:HD13	1.73	0.69
3:C:2669:ILE:HD12	3:C:2847:ALA:HB2	1.25	0.69
3:C:2792:TYR:O	3:C:2796:PRO:HD3	1.91	0.69
4:D:569:TYR:CZ	4:D:578:LYS:CD	2.74	0.69
7:G:119:PRO:CG	9:I:12:ILE:CD1	2.69	0.69
10:J:79:PHE:CG	11:K:68:ALA:CB	2.74	0.69
14:N:116:ALA:O	15:O:131:PHE:HD1	1.75	0.69
1:A:1142:ILE:HD13	1:A:1190:LEU:HD21	1.74	0.69
1:A:3230:LEU:C	1:A:3233:ILE:HG22	2.12	0.69
1:A:3317:PHE:HA	1:A:3333:LEU:HD13	1.74	0.69
2:B:741:ILE:HD13	2:B:776:LEU:CD1	2.20	0.69
2:B:789:LYS:CB	2:B:839:LEU:HD13	2.21	0.69
2:B:3297:PHE:CE2	2:B:3302:ILE:HD13	2.27	0.69
3:C:2365:GLY:HA2	19:C:4703:ADP:H5'2	1.74	0.69
3:C:2784:ASN:O	3:C:2787:ILE:CG2	2.33	0.69
5:E:251:PRO:HG2	5:E:254:ILE:HD11	1.73	0.69
5:E:531:ARG:O	5:E:535:LYS:HG3	1.91	0.69
6:F:91:GLN:HE21	6:F:96:THR:HG21	1.55	0.69
10:J:19:LYS:HB2	10:J:28:TRP:CB	2.20	0.69
10:J:62:GLU:HG3	11:K:69:TYR:CE2	2.26	0.69
16:P:10:THR:CB	16:P:66:ILE:H	2.05	0.69
1:A:53:ILE:C	1:A:54:PHE:N	2.45	0.69
1:A:398:TRP:CB	1:A:490:LYS:CA	2.69	0.69
1:A:580:LEU:HD22	1:A:640:SER:CB	1.99	0.69
1:A:943:THR:C	1:A:944:LEU:CA	2.60	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:960:THR:CG2	18:R:117:VAL:CB	2.70	0.69
1:A:1452:LYS:CA	1:A:1458:MET:N	2.52	0.69
1:A:3194:ALA:HB1	1:A:3356:VAL:HG22	1.69	0.69
2:B:528:GLU:CD	5:E:526:GLN:NE2	2.42	0.69
2:B:1051:ASP:OD2	2:B:1162:THR:HG21	1.90	0.69
2:B:1447:ILE:HG21	2:B:1504:TRP:HE1	0.53	0.69
2:B:3234:LEU:CD1	2:B:3336:LEU:CD2	2.69	0.69
3:C:2690:LEU:CB	3:C:2826:VAL:CG1	2.70	0.69
3:C:2850:LYS:O	3:C:2854:VAL:HG23	1.93	0.69
4:D:61:LEU:N	14:N:59:ASN:HD21	1.89	0.69
5:E:378:GLN:HB2	5:E:422:SER:HB3	1.72	0.69
1:A:819:VAL:CA	1:A:840:TYR:HE2	2.05	0.69
1:A:3709:ASP:HB3	1:A:3712:LEU:HD12	1.74	0.69
2:B:58:SER:N	2:B:71:CYS:CB	2.56	0.69
2:B:582:MET:O	5:E:186:PHE:HB3	1.93	0.69
2:B:674:ASP:OD1	2:B:675:PRO:HD2	1.91	0.69
2:B:721:ASN:OD1	2:B:777:PHE:HB2	1.92	0.69
2:B:1477:LEU:HD13	2:B:1511:VAL:HG11	1.73	0.69
4:D:90:ASP:OD1	13:M:32:LYS:CG	2.40	0.69
4:D:441:LEU:CD1	4:D:457:ALA:O	2.40	0.69
4:D:529:ASP:OD2	4:D:532:TYR:CE2	2.45	0.69
4:D:553:TYR:HE1	4:D:595:PHE:HZ	1.40	0.69
5:E:361:LEU:O	5:E:361:LEU:HD13	1.90	0.69
6:F:51:LEU:HB3	7:G:113:VAL:HG13	1.74	0.69
6:F:56:TRP:CZ3	6:F:74:ILE:CG1	2.74	0.69
1:A:970:TYR:CA	1:A:983:ALA:O	2.40	0.69
1:A:1544:ILE:HG12	1:A:1580:LYS:HG2	1.75	0.69
1:A:1637:VAL:CG1	1:A:1653:ILE:CG2	2.70	0.69
2:B:429:LEU:HD13	2:B:492:PHE:HD2	1.56	0.69
2:B:844:LEU:O	2:B:844:LEU:HD23	1.92	0.69
2:B:3271:ASP:CG	2:B:3272:PRO:HD2	2.11	0.69
3:C:114:LEU:HD13	3:C:114:LEU:C	2.13	0.69
5:E:46:ASN:HB3	12:L:88:PHE:CD1	2.28	0.69
5:E:116:VAL:HG11	6:F:99:ALA:HB2	1.74	0.69
1:A:3236:ILE:CG2	1:A:3333:LEU:N	2.56	0.69
2:B:433:ILE:CA	2:B:463:PHE:CZ	2.74	0.69
2:B:699:LYS:O	2:B:703:THR:HG23	1.92	0.69
3:C:12:GLN:NE2	3:C:349:LEU:HB2	2.00	0.69
3:C:2673:VAL:HA	3:C:2841:THR:CG2	2.23	0.69
3:C:2726:THR:O	3:C:2729:LEU:HB2	1.93	0.69
5:E:145:LEU:HD13	5:E:494:LEU:HD11	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:72:ILE:HG12	15:O:97:ILE:CD1	2.18	0.69
1:A:670:LEU:HD21	1:A:772:TRP:HD1	1.55	0.69
1:A:726:TYR:CE1	1:A:777:ILE:CG2	2.74	0.69
1:A:1536:LEU:H	1:A:1536:LEU:CD1	2.02	0.69
1:A:1623:ILE:CD1	1:A:1680:ILE:HD13	2.19	0.69
1:A:3121:LEU:HD21	1:A:3429:TRP:C	2.12	0.69
1:A:3293:PHE:CE1	1:A:3335:TRP:HH2	2.11	0.69
2:B:1058:LYS:NZ	2:B:1167:MET:SD	2.60	0.69
2:B:2540:ALA:O	19:B:5501:ADP:O3B	2.10	0.69
2:B:3433:TRP:CH2	2:B:3695:LEU:HD21	2.27	0.69
3:C:222:PHE:C	3:C:282:ARG:HH12	1.95	0.69
3:C:2708:GLN:OE1	3:C:2813:ILE:CG1	2.41	0.69
4:D:329:ILE:HD11	4:D:350:VAL:HG21	1.73	0.69
6:F:48:ILE:HD13	6:F:98:LEU:HD23	1.63	0.69
1:A:398:TRP:HA	1:A:486:ASN:O	1.92	0.69
1:A:596:LEU:HD21	1:A:602:PRO:HA	1.72	0.69
1:A:761:LEU:CD1	1:A:872:ASP:OD2	2.41	0.69
1:A:1088:TRP:O	1:A:1092:TRP:CD1	2.46	0.69
1:A:1101:HIS:CA	1:A:1163:LEU:CD1	2.62	0.69
1:A:1596:ARG:HD3	1:A:1603:TYR:CD1	2.28	0.69
1:A:1601:ARG:HE	1:A:1688:GLU:CD	1.92	0.69
1:A:2839:LEU:CD1	19:A:4901:ADP:N3	2.55	0.69
1:A:3290:LEU:HD23	1:A:3335:TRP:CZ2	2.17	0.69
1:A:3322:ALA:HB2	1:A:3333:LEU:HD12	1.74	0.69
1:A:4056:ILE:HD11	1:A:4072:LEU:HD21	1.72	0.69
2:B:436:PHE:HD2	2:B:463:PHE:CZ	2.11	0.69
2:B:669:ILE:HD13	2:B:752:ILE:HD11	1.74	0.69
2:B:871:ILE:HG13	2:B:944:ILE:HD12	1.69	0.69
2:B:1467:PHE:CG	2:B:1470:LEU:HD11	2.28	0.69
2:B:3264:ASN:CA	2:B:3306:ILE:HD11	2.23	0.69
3:C:294:LEU:HD23	3:C:294:LEU:C	2.13	0.69
4:D:90:ASP:OD2	13:M:32:LYS:HE3	1.93	0.69
4:D:110:SER:HA	15:O:96:ARG:HG3	1.74	0.69
4:D:174:GLN:HA	13:M:62:GLY:HA2	0.75	0.69
4:D:297:LYS:HZ3	4:D:328:LEU:CD1	2.05	0.69
4:D:353:LEU:HD23	4:D:353:LEU:C	2.13	0.69
5:E:100:GLU:HA	5:E:105:PHE:HB3	1.75	0.69
5:E:225:GLN:H	5:E:225:GLN:CD	1.96	0.69
10:J:79:PHE:HA	11:K:68:ALA:CB	2.23	0.69
1:A:598:ARG:NH2	4:D:546:VAL:HG11	2.02	0.69
2:B:794:LEU:C	2:B:797:PHE:CE2	2.66	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:957:GLN:HG2	3:C:164:HIS:HE1	0.75	0.69
3:C:352:LEU:O	3:C:352:LEU:HD22	1.93	0.69
5:E:24:GLU:OE2	14:N:91:THR:CG2	2.41	0.69
6:F:73:ASP:OD1	6:F:73:ASP:O	2.11	0.69
10:J:19:LYS:CE	15:O:19:LEU:CD1	2.66	0.69
14:N:8:TYR:CZ	14:N:13:VAL:HG21	2.27	0.69
1:A:766:GLY:HA3	1:A:780:TYR:HE1	1.55	0.69
1:A:944:LEU:HD21	1:A:1017:LEU:CD2	2.23	0.69
1:A:1487:VAL:HA	1:A:1490:PHE:CZ	2.27	0.69
1:A:3222:GLU:CB	1:A:3328:ALA:CB	2.70	0.69
1:A:3249:ILE:HG12	1:A:3273:TYR:CA	2.05	0.69
1:A:3273:TYR:CG	1:A:3276:SER:HB3	2.28	0.69
1:A:3293:PHE:CE1	1:A:3335:TRP:CZ2	2.76	0.69
2:B:520:ARG:HH12	2:B:550:MET:HG3	1.44	0.69
2:B:783:MET:CE	2:B:847:VAL:CG2	2.71	0.69
3:C:60:LEU:HD23	3:C:69:TRP:CZ3	2.23	0.69
4:D:517:ILE:HD11	4:D:550:TRP:CZ2	2.28	0.69
4:D:593:LEU:C	4:D:593:LEU:HD12	2.12	0.69
7:G:61:GLU:OE1	7:G:61:GLU:N	2.26	0.69
8:H:60:ILE:CG1	9:I:85:TYR:HB3	2.19	0.69
15:O:72:LYS:C	15:O:72:LYS:HD3	2.12	0.69
1:A:155:GLY:HA3	2:B:167:GLN:O	1.70	0.68
1:A:933:VAL:CG2	1:A:951:ILE:HD11	2.24	0.68
2:B:309:ASP:O	2:B:313:LEU:N	2.22	0.68
2:B:582:MET:CE	2:B:587:GLY:N	2.56	0.68
3:C:192:PRO:HG2	3:C:232:TYR:HE2	1.57	0.68
4:D:174:GLN:HB3	12:L:51:LYS:CB	2.22	0.68
4:D:590:LEU:CD2	4:D:604:VAL:CG1	2.68	0.68
6:F:62:VAL:HG21	7:G:106:LEU:CD1	2.13	0.68
8:H:46:LYS:HZ1	9:I:86:ASP:C	1.92	0.68
1:A:1126:VAL:CG2	1:A:1131:SER:OG	2.42	0.68
1:A:1433:LEU:HD21	1:A:1481:PHE:CD2	2.28	0.68
1:A:2042:ARG:HG3	1:A:2278:ASN:HA	1.76	0.68
1:A:3702:SER:HB3	1:A:3712:LEU:HD11	1.73	0.68
2:B:408:THR:O	2:B:412:LEU:HB3	1.94	0.68
2:B:501:ARG:HH12	4:D:491:GLN:NE2	1.90	0.68
2:B:669:ILE:O	2:B:719:VAL:HG13	1.93	0.68
2:B:681:LEU:HD11	2:B:705:ALA:HB2	1.73	0.68
2:B:963:PHE:HE1	3:C:83:CYS:SG	2.16	0.68
2:B:1458:PHE:CE1	2:B:1560:MET:O	2.46	0.68
2:B:2333:PRO:CA	20:B:5601:ATP:N1	2.55	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:113:ILE:CD1	3:C:185:PHE:CZ	2.75	0.68
3:C:352:LEU:O	3:C:352:LEU:HD13	1.93	0.68
5:E:20:PHE:CG	15:O:80:LYS:CE	2.61	0.68
5:E:113:LYS:HE2	6:F:10:GLN:HA	1.74	0.68
15:O:19:LEU:HD23	15:O:19:LEU:O	1.94	0.68
1:A:1458:MET:HE3	1:A:1518:TRP:CH2	2.27	0.68
1:A:3257:VAL:HG11	1:A:3266:VAL:HG22	1.75	0.68
2:B:3:ASP:CB	2:B:7:LYS:N	2.57	0.68
2:B:783:MET:HE2	2:B:847:VAL:CG2	2.23	0.68
2:B:872:SER:HB2	2:B:965:ILE:HD11	1.75	0.68
3:C:2013:GLY:CA	19:C:4702:ADP:O2A	2.41	0.68
4:D:89:TYR:CD2	11:K:56:PRO:CG	2.75	0.68
4:D:570:ASP:H	4:D:579:LEU:HD13	1.58	0.68
6:F:54:ASP:OD2	7:G:109:LYS:NZ	2.24	0.68
6:F:56:TRP:CH2	6:F:74:ILE:CG1	2.75	0.68
7:G:77:LEU:HD23	7:G:77:LEU:C	2.14	0.68
10:J:21:PHE:CZ	10:J:37:LEU:HD21	2.29	0.68
1:A:670:LEU:HD23	1:A:670:LEU:O	1.94	0.68
1:A:1551:ILE:HA	1:A:1554:LYS:HE2	1.75	0.68
2:B:10:PRO:CA	2:B:25:GLN:C	2.41	0.68
2:B:927:ARG:NH1	2:B:976:LEU:HB3	2.07	0.68
3:C:2721:GLU:CG	3:C:2803:MET:HE2	2.23	0.68
3:C:2726:THR:CA	3:C:2729:LEU:HG	2.23	0.68
4:D:180:ILE:HD12	4:D:180:ILE:C	2.14	0.68
11:K:36:TYR:HD2	11:K:41:LYS:HB3	1.58	0.68
13:M:84:LEU:C	13:M:84:LEU:HD12	2.12	0.68
1:A:1101:HIS:HA	1:A:1163:LEU:HD12	1.75	0.68
1:A:1163:LEU:C	1:A:1163:LEU:HD23	2.13	0.68
1:A:1458:MET:SD	1:A:1548:TRP:HD1	2.16	0.68
1:A:1517:LEU:HD11	1:A:1582:GLU:HG2	1.74	0.68
1:A:1639:PHE:CE1	1:A:1653:ILE:HG12	2.27	0.68
1:A:3230:LEU:N	1:A:3233:ILE:HG21	2.07	0.68
1:A:3285:ASN:O	1:A:3289:LYS:HG3	1.93	0.68
1:A:3421:SER:HB2	1:A:3716:LEU:HD21	1.76	0.68
2:B:3269:LEU:C	2:B:3269:LEU:HD22	2.13	0.68
3:C:354:VAL:HG21	3:C:357:ILE:CG1	2.21	0.68
3:C:834:VAL:HG22	3:C:881:ILE:HD11	1.75	0.68
4:D:174:GLN:HE21	12:L:51:LYS:N	1.86	0.68
5:E:61:VAL:HG11	10:J:95:PHE:CZ	2.27	0.68
9:I:26:ASN:CB	9:I:98:PHE:HE2	2.04	0.68
1:A:670:LEU:HA	1:A:692:ILE:CD1	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:821:LEU:O	1:A:912:ARG:HD3	1.94	0.68
1:A:1020:PHE:CE2	1:A:1069:TYR:CE1	2.78	0.68
1:A:3442:LYS:HD2	1:A:3485:THR:N	2.08	0.68
2:B:555:LEU:HD23	2:B:625:LEU:HD22	0.68	0.68
2:B:1467:PHE:CB	2:B:1470:LEU:CD1	2.40	0.68
2:B:2192:CYS:SG	20:B:5601:ATP:C8	2.87	0.68
3:C:24:HIS:CD2	3:C:325:SER:OG	2.45	0.68
3:C:250:LYS:HG3	3:C:273:VAL:HG12	1.75	0.68
3:C:336:ILE:HD12	3:C:336:ILE:N	2.08	0.68
1:A:695:LEU:C	1:A:695:LEU:HD23	2.14	0.68
1:A:791:LEU:O	1:A:795:ILE:HG13	1.94	0.68
1:A:818:LEU:HB2	1:A:844:LYS:HG3	1.76	0.68
1:A:871:LEU:HD23	1:A:875:VAL:HG11	1.72	0.68
1:A:1045:LEU:HD13	1:A:1045:LEU:C	2.14	0.68
1:A:3191:LYS:HE2	1:A:3360:GLU:HG2	1.76	0.68
2:B:899:LEU:HD12	2:B:900:PHE:H	1.57	0.68
3:C:113:ILE:HD11	3:C:185:PHE:CE1	2.29	0.68
3:C:2796:PRO:HD2	3:C:2796:PRO:O	1.93	0.68
4:D:162:LEU:C	4:D:162:LEU:HD23	2.14	0.68
4:D:499:HIS:CD2	4:D:528:TRP:HH2	2.11	0.68
5:E:456:PRO:HD2	5:E:481:GLN:HB3	1.74	0.68
6:F:81:THR:HG22	7:G:123:LEU:HD23	1.76	0.68
8:H:11:ILE:HG22	8:H:79:LEU:HB3	1.74	0.68
10:J:37:LEU:C	10:J:37:LEU:HD23	2.14	0.68
12:L:28:GLN:HA	12:L:28:GLN:NE2	2.07	0.68
1:A:722:LYS:O	1:A:726:TYR:CD2	2.43	0.68
1:A:755:HIS:CE1	1:A:869:TYR:CG	2.81	0.68
1:A:805:ARG:HH12	5:E:152:LEU:HD11	1.59	0.68
1:A:1458:MET:HE1	1:A:1548:TRP:CD1	2.29	0.68
2:B:551:TYR:HD2	2:B:622:VAL:CG1	2.06	0.68
2:B:883:ASN:CA	2:B:886:ILE:HG22	2.24	0.68
2:B:963:PHE:CD2	3:C:103:THR:HA	2.29	0.68
2:B:1109:THR:C	2:B:1113:LEU:HG	2.08	0.68
2:B:1529:TYR:HB2	2:B:1549:PHE:HZ	1.58	0.68
4:D:401:GLN:HB3	4:D:417:ILE:CG2	2.23	0.68
4:D:517:ILE:CD1	4:D:527:ILE:CG1	2.71	0.68
5:E:423:GLY:HA2	5:E:505:ILE:HD12	1.74	0.68
9:I:81:GLU:OE1	9:I:102:ASN:CG	2.30	0.68
1:A:837:GLN:NE2	1:A:958:ALA:HB1	2.01	0.68
1:A:1100:LEU:HD22	1:A:1163:LEU:HD12	1.76	0.68
1:A:1596:ARG:HH21	1:A:1610:LEU:HD23	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3317:PHE:HD1	1:A:3333:LEU:CD2	2.06	0.68
2:B:746:GLU:O	2:B:750:PRO:HD3	1.93	0.68
2:B:1531:ILE:HD13	2:B:1618:LEU:CD2	2.24	0.68
2:B:3067:ILE:HD11	2:B:3119:LYS:CD	2.22	0.68
4:D:567:GLN:CD	4:D:578:LYS:CE	2.62	0.68
5:E:30:ILE:HD12	5:E:30:ILE:O	1.94	0.68
8:H:79:LEU:HD12	8:H:79:LEU:C	2.13	0.68
1:A:1597:LYS:HZ2	1:A:1962:ILE:CD1	2.05	0.68
1:A:1632:ASP:OD1	1:A:1842:LYS:NZ	2.27	0.68
2:B:1447:ILE:HG12	2:B:1480:HIS:ND1	2.09	0.68
3:C:2018:GLN:HG3	19:C:4702:ADP:C2'	2.24	0.68
4:D:77:PRO:HA	15:O:102:LEU:HD23	1.76	0.68
4:D:170:THR:CG2	13:M:66:ILE:CB	2.53	0.68
5:E:50:LEU:CD2	12:L:23:PHE:HB2	2.24	0.68
5:E:259:ASN:HD22	5:E:298:ALA:C	1.97	0.68
6:F:19:GLY:CA	6:F:107:ILE:HD11	2.23	0.68
7:G:125:PHE:CZ	7:G:136:MET:HE3	2.29	0.68
15:O:31:PRO:HB3	15:O:109:ASN:HD21	1.59	0.68
1:A:607:ILE:HD13	1:A:655:PHE:HD2	1.59	0.67
1:A:3124:ILE:HD13	1:A:3425:GLU:CG	2.24	0.67
2:B:888:PRO:CA	2:B:891:ILE:HG22	2.24	0.67
2:B:969:LEU:O	2:B:969:LEU:HD23	1.93	0.67
2:B:1058:LYS:HB2	2:B:1166:GLU:CG	2.24	0.67
2:B:1238:LYS:NZ	2:B:1308:LEU:CA	2.57	0.67
2:B:3178:VAL:HG12	2:B:3395:LEU:HD11	1.75	0.67
4:D:251:MET:CG	7:G:136:MET:HE1	2.18	0.67
5:E:48:ILE:CG1	12:L:88:PHE:CZ	2.77	0.67
12:L:59:LYS:HB2	12:L:59:LYS:HZ2	1.59	0.67
14:N:70:THR:OG1	14:N:111:SER:OG	2.12	0.67
1:A:794:LEU:HD13	1:A:794:LEU:O	1.95	0.67
1:A:1504:VAL:CG2	1:A:1565:CYS:HB3	2.16	0.67
1:A:1642:ALA:HB3	1:A:1652:GLN:HB2	1.76	0.67
1:A:3124:ILE:CD1	1:A:3425:GLU:HG3	2.24	0.67
1:A:3273:TYR:HD1	1:A:3276:SER:N	1.90	0.67
2:B:658:GLN:NE2	2:B:672:ASN:OD1	2.24	0.67
2:B:899:LEU:CD1	2:B:900:PHE:CD1	2.77	0.67
2:B:1374:THR:C	2:B:1420:LEU:CB	2.62	0.67
3:C:359:GLY:CA	3:C:440:TYR:CB	2.72	0.67
10:J:38:GLU:OE2	15:O:29:PHE:HE2	1.71	0.67
10:J:82:LYS:HG3	11:K:65:HIS:HE2	1.59	0.67
1:A:307:LEU:O	1:A:311:LYS:CB	2.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1212:LEU:HD23	1:A:1212:LEU:C	2.14	0.67
2:B:4314:ILE:HD12	2:B:4391:ILE:HG23	1.76	0.67
3:C:2899:LEU:HD23	3:C:2899:LEU:C	2.15	0.67
6:F:37:GLU:OE1	6:F:37:GLU:HA	1.94	0.67
9:I:24:ILE:HG23	9:I:98:PHE:CD1	2.29	0.67
10:J:52:GLU:OE1	10:J:52:GLU:N	2.18	0.67
12:L:77:ILE:HA	13:M:63:SER:OG	1.95	0.67
12:L:77:ILE:HG13	13:M:65:ILE:HD11	1.73	0.67
13:M:71:LYS:HG3	13:M:86:LYS:HD3	1.74	0.67
1:A:1515:GLN:O	1:A:1519:THR:OG1	2.10	0.67
2:B:409:SER:O	2:B:413:PHE:CA	2.43	0.67
2:B:412:LEU:HD13	2:B:412:LEU:C	2.15	0.67
2:B:783:MET:CE	2:B:847:VAL:HG21	2.25	0.67
2:B:1458:PHE:CE1	2:B:1560:MET:HE1	2.29	0.67
3:C:10:LEU:HD21	3:C:66:ASN:N	2.08	0.67
3:C:52:ALA:HB1	3:C:53:PRO:HD3	1.75	0.67
3:C:346:LEU:H	3:C:346:LEU:HD13	1.60	0.67
3:C:2902:ALA:HB1	3:C:3193:LEU:HB3	1.76	0.67
4:D:97:LYS:HE3	13:M:32:LYS:HE2	1.75	0.67
10:J:61:ALA:HA	10:J:80:PHE:HE2	1.57	0.67
1:A:596:LEU:HD23	1:A:602:PRO:HA	1.74	0.67
1:A:841:ILE:HD13	1:A:961:ALA:CB	2.23	0.67
1:A:943:THR:CA	1:A:944:LEU:N	2.57	0.67
1:A:1511:TRP:CA	1:A:1574:LEU:CD1	2.73	0.67
2:B:555:LEU:HG	2:B:625:LEU:CD2	2.24	0.67
2:B:736:LEU:HD12	2:B:859:TYR:CG	2.29	0.67
2:B:1566:ASN:CG	3:C:2275:LYS:CD	2.61	0.67
4:D:109:PHE:CE2	15:O:121:TYR:HD2	2.12	0.67
6:F:28:GLU:CD	6:F:28:GLU:H	1.97	0.67
10:J:48:LEU:HD12	10:J:100:ILE:HD12	1.74	0.67
12:L:75:GLN:HB2	13:M:65:ILE:HG23	1.76	0.67
1:A:1448:GLY:N	1:A:1460:ASN:O	2.27	0.67
1:A:3236:ILE:CG2	1:A:3333:LEU:CA	2.72	0.67
2:B:3289:ALA:O	2:B:3293:LYS:HG3	1.95	0.67
2:B:3764:LEU:HD11	2:B:3816:LEU:HD21	1.77	0.67
3:C:163:GLY:HA2	3:C:174:PHE:CD2	2.30	0.67
3:C:2708:GLN:NE2	3:C:2813:ILE:HG13	2.09	0.67
4:D:531:LYS:NZ	4:D:532:TYR:CZ	2.63	0.67
5:E:46:ASN:OD1	12:L:88:PHE:CZ	2.47	0.67
6:F:54:ASP:CG	7:G:109:LYS:HE2	2.15	0.67
6:F:81:THR:OG1	7:G:121:ASN:ND2	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:36:ALA:H	2:B:39:ASP:CB	2.06	0.67
2:B:524:LEU:HD23	2:B:524:LEU:C	2.14	0.67
2:B:3267:ILE:CG2	2:B:3271:ASP:HB2	2.24	0.67
3:C:29:VAL:CG2	3:C:92:ALA:O	2.42	0.67
3:C:85:HIS:HA	3:C:99:GLY:O	1.95	0.67
3:C:2581:LEU:HD23	3:C:2581:LEU:C	2.14	0.67
3:C:2804:ALA:HA	3:C:2811:LYS:HB2	1.75	0.67
4:D:201:GLN:OE1	9:I:102:ASN:HA	1.93	0.67
5:E:21:GLN:HG2	5:E:21:GLN:O	1.95	0.67
5:E:23:THR:HG23	14:N:88:TYR:CD1	2.29	0.67
15:O:34:ILE:HG23	15:O:71:ILE:HD12	1.76	0.67
1:A:604:ALA:HB3	1:A:698:GLU:CG	2.24	0.67
2:B:669:ILE:CD1	2:B:752:ILE:HD11	2.25	0.67
4:D:395:HIS:CG	4:D:418:SER:HB3	2.30	0.67
16:P:39:TRP:C	16:P:40:SER:CA	2.62	0.67
1:A:670:LEU:CD2	1:A:772:TRP:HD1	2.01	0.67
1:A:871:LEU:CD2	1:A:875:VAL:HG13	2.19	0.67
1:A:1445:PHE:HE2	1:A:1564:CYS:CB	1.68	0.67
2:B:429:LEU:HD11	2:B:489:PHE:CD1	2.30	0.67
2:B:804:ARG:NH1	2:B:898:PRO:O	2.28	0.67
2:B:957:GLN:HB2	3:C:220:TRP:CZ3	2.26	0.67
2:B:1119:LYS:HB3	2:B:1138:LYS:HZ3	1.59	0.67
3:C:258:ALA:HB1	3:C:357:ILE:HD13	1.77	0.67
3:C:2708:GLN:OE1	3:C:2813:ILE:CD1	2.42	0.67
4:D:111:MET:CE	15:O:90:ILE:HG22	2.22	0.67
4:D:288:ARG:NH1	4:D:585:VAL:HG11	2.10	0.67
8:H:60:ILE:HA	9:I:85:TYR:HB3	1.75	0.67
10:J:32:CYS:SG	10:J:96:ILE:HG12	2.33	0.67
13:M:84:LEU:HD12	13:M:84:LEU:O	1.95	0.67
14:N:72:ILE:CB	15:O:97:ILE:CD1	2.73	0.67
1:A:2037:GLN:HE22	1:A:4479:GLN:HE22	1.42	0.67
1:A:3255:GLU:OE1	1:A:3269:LEU:C	2.34	0.67
2:B:531:LEU:HD21	2:B:540:LEU:HD11	1.71	0.67
2:B:789:LYS:CG	2:B:839:LEU:CD1	2.66	0.67
2:B:1531:ILE:HD12	2:B:1595:LEU:HD13	1.75	0.67
2:B:2189:GLY:HA2	20:B:5601:ATP:C5'	2.25	0.67
2:B:3302:ILE:CG2	2:B:3303:GLU:N	2.53	0.67
2:B:3829:VAL:HG11	2:B:3946:ILE:CD1	2.25	0.67
5:E:46:ASN:CG	12:L:88:PHE:CZ	2.68	0.67
6:F:11:LEU:CB	6:F:23:TYR:OH	2.34	0.67
1:A:57:TYR:CA	1:A:103:ASP:HA	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:659:TRP:CE2	1:A:702:LEU:HD11	2.29	0.66
1:A:818:LEU:O	1:A:818:LEU:HD22	1.95	0.66
1:A:935:VAL:HG11	1:A:1017:LEU:CD2	2.25	0.66
1:A:1100:LEU:CD2	1:A:1163:LEU:HD12	2.25	0.66
1:A:3117:PHE:CE2	1:A:3429:TRP:CZ3	2.83	0.66
1:A:3335:TRP:CZ2	1:A:3339:ILE:HD11	2.29	0.66
2:B:583:PRO:HB3	2:B:683:GLU:CG	2.23	0.66
2:B:1458:PHE:CD1	2:B:1560:MET:CE	2.78	0.66
2:B:3173:ILE:HG22	2:B:3177:LYS:HE3	1.76	0.66
4:D:285:PRO:CB	4:D:584:ILE:HG22	2.25	0.66
5:E:48:ILE:CG1	12:L:88:PHE:HZ	2.04	0.66
7:G:111:ARG:HH21	7:G:139:PRO:HB2	1.60	0.66
8:H:70:THR:O	9:I:76:GLN:NE2	2.27	0.66
9:I:19:MET:HB2	9:I:22:LYS:CG	2.25	0.66
1:A:806:ILE:CD1	1:A:890:TYR:CE2	2.78	0.66
1:A:886:ILE:O	1:A:890:TYR:HD1	1.78	0.66
1:A:944:LEU:HD21	1:A:1017:LEU:HD21	1.76	0.66
1:A:1570:LEU:H	1:A:1570:LEU:HD12	1.60	0.66
2:B:673:PHE:CE1	2:B:677:LEU:CD1	2.76	0.66
2:B:792:LYS:HE3	2:B:796:ASN:ND2	2.10	0.66
2:B:1127:ASN:HB2	2:B:1128:PRO:HD2	1.77	0.66
2:B:1139:LEU:HD13	2:B:1139:LEU:C	2.15	0.66
2:B:1238:LYS:HE2	2:B:1308:LEU:CA	2.06	0.66
3:C:36:PHE:CE2	3:C:97:VAL:HG11	2.30	0.66
3:C:2740:ILE:CG1	3:C:2744:LYS:CB	2.58	0.66
5:E:68:THR:HB	8:H:70:THR:HG22	1.77	0.66
15:O:52:ASP:N	15:O:53:PRO:CD	2.58	0.66
1:A:3220:ILE:HG22	1:A:3224:LYS:HE3	1.75	0.66
2:B:794:LEU:HB3	2:B:797:PHE:HE2	1.59	0.66
2:B:837:GLN:OE1	2:B:837:GLN:HA	1.95	0.66
2:B:1429:GLU:O	2:B:1433:VAL:HG23	1.95	0.66
2:B:2863:VAL:HG21	2:B:3059:VAL:HG22	1.77	0.66
3:C:2581:LEU:CD1	3:C:2937:TYR:CZ	2.79	0.66
4:D:248:MET:HE2	7:G:147:VAL:CG2	2.26	0.66
5:E:112:LEU:HD23	6:F:97:MET:HE2	1.77	0.66
7:G:119:PRO:HG3	9:I:16:ARG:NH2	2.10	0.66
1:A:634:ILE:HG23	1:A:638:TYR:CZ	2.25	0.66
1:A:1134:TYR:HD2	1:A:1268:ARG:NE	1.93	0.66
1:A:1143:ARG:HD3	4:D:171:ARG:HE	1.61	0.66
1:A:1500:THR:HG23	1:A:1566:GLN:NE2	2.07	0.66
3:C:143:PRO:HG3	3:C:187:TRP:NE1	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2726:THR:HA	3:C:2729:LEU:HG	1.74	0.66
4:D:175:THR:CB	13:M:61:PHE:H	2.08	0.66
9:I:51:ALA:HB1	9:I:52:PRO:HD2	1.78	0.66
10:J:43:GLU:OE2	10:J:43:GLU:HA	1.96	0.66
1:A:669:ALA:HB1	1:A:689:ASP:OD2	1.95	0.66
1:A:1126:VAL:O	1:A:1126:VAL:HG12	1.95	0.66
1:A:1450:TRP:CD1	1:A:1518:TRP:HZ3	2.14	0.66
1:A:3099:TYR:CE1	1:A:3447:VAL:HG12	2.31	0.66
1:A:3290:LEU:HD21	1:A:3335:TRP:CH2	2.29	0.66
2:B:700:ASP:O	2:B:703:THR:OG1	2.14	0.66
2:B:762:ILE:O	2:B:766:ILE:HG13	1.95	0.66
3:C:39:LEU:O	3:C:39:LEU:HD13	1.95	0.66
3:C:165:GLY:C	3:C:174:PHE:HZ	1.87	0.66
5:E:16:ASN:CB	15:O:132:GLU:CB	2.52	0.66
5:E:80:TRP:O	8:H:80:TYR:CZ	2.48	0.66
5:E:112:LEU:CD2	6:F:97:MET:CE	2.74	0.66
14:N:89:GLN:HG2	14:N:94:ASP:CB	2.20	0.66
15:O:30:TYR:H	15:O:31:PRO:HD2	1.53	0.66
1:A:617:ILE:CD1	1:A:647:GLN:HE22	2.02	0.66
1:A:739:ARG:HH11	1:A:743:LYS:NZ	1.92	0.66
1:A:761:LEU:HD21	1:A:874:HIS:NE2	2.11	0.66
1:A:913:VAL:C	1:A:1073:ALA:HB1	2.15	0.66
1:A:1143:ARG:CZ	4:D:169:ASN:HD22	2.03	0.66
1:A:1418:ASP:CG	1:A:3604:LYS:HZ1	1.95	0.66
2:B:682:LYS:HZ3	5:E:186:PHE:HD1	1.21	0.66
2:B:1119:LYS:HB3	2:B:1138:LYS:HD3	1.77	0.66
2:B:1507:LYS:CD	2:B:1571:GLU:OE1	2.41	0.66
2:B:3453:LEU:HD22	2:B:3492:ILE:HD12	1.76	0.66
4:D:398:PRO:HD2	4:D:398:PRO:O	1.93	0.66
5:E:66:VAL:HG11	8:H:72:GLU:CD	2.16	0.66
5:E:112:LEU:HD23	5:E:112:LEU:C	2.16	0.66
6:F:45:ALA:HA	6:F:48:ILE:HG22	1.77	0.66
9:I:77:CYS:CB	9:I:107:ILE:HG22	2.24	0.66
1:A:2298:LEU:HD11	20:A:4801:ATP:C6	2.30	0.66
2:B:501:ARG:NH1	4:D:491:GLN:OE1	2.19	0.66
2:B:713:VAL:HG11	5:E:258:GLU:CA	2.26	0.66
2:B:718:ILE:CD1	2:B:773:VAL:CB	2.72	0.66
2:B:1069:THR:HB	2:B:1070:PRO:CD	2.25	0.66
2:B:1608:ARG:HG3	2:B:1638:PHE:HE1	1.58	0.66
2:B:3140:LEU:HD23	2:B:3140:LEU:C	2.16	0.66
3:C:2746:PRO:CD	3:C:2747:LYS:H	2.03	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:170:THR:HG21	13:M:66:ILE:CD1	2.23	0.66
6:F:91:GLN:CG	6:F:96:THR:HG21	2.17	0.66
1:A:613:LEU:HD21	4:D:523:TRP:CZ2	2.31	0.66
1:A:755:HIS:ND1	1:A:869:TYR:CE2	2.44	0.66
1:A:1100:LEU:HD23	1:A:1100:LEU:C	2.16	0.66
2:B:938:PHE:HD2	2:B:956:LEU:HD11	1.59	0.66
2:B:1595:LEU:HD23	2:B:1595:LEU:O	1.96	0.66
2:B:3234:LEU:HD11	2:B:3336:LEU:CD2	2.26	0.66
4:D:109:PHE:CD2	15:O:121:TYR:HE2	2.13	0.66
4:D:177:ASN:CG	13:M:60:ASN:CB	2.58	0.66
4:D:571:LEU:HD13	4:D:647:TYR:CD2	2.31	0.66
5:E:492:ASP:HA	5:E:495:TYR:CD2	2.28	0.66
1:A:1029:GLU:HA	1:A:1088:TRP:HZ2	1.60	0.66
2:B:1116:PHE:N	2:B:1119:LYS:NZ	2.44	0.66
3:C:192:PRO:CG	3:C:232:TYR:HE2	2.09	0.66
3:C:2793:LEU:C	3:C:2796:PRO:CG	2.64	0.66
5:E:435:ASP:HB2	5:E:446:ILE:HG21	1.75	0.66
6:F:50:ALA:HB2	8:H:83:GLN:CG	2.26	0.66
10:J:101:GLU:OE1	10:J:101:GLU:HA	1.95	0.66
1:A:791:LEU:HD11	1:A:795:ILE:HD11	1.77	0.66
1:A:2298:LEU:HD21	20:A:4801:ATP:C8	2.31	0.66
1:A:3307:GLU:N	1:A:3308:PRO:HD2	2.11	0.66
1:A:3345:LYS:HE3	1:A:3345:LYS:HA	1.77	0.66
2:B:492:PHE:HA	2:B:495:LYS:HD2	1.77	0.66
3:C:34:ILE:HG23	3:C:57:VAL:CG1	2.26	0.66
4:D:397:ASP:HB3	4:D:419:SER:HB3	1.78	0.66
5:E:58:GLU:HB3	10:J:89:VAL:HG22	1.78	0.66
5:E:82:GLY:CA	8:H:12:LYS:HZ3	1.98	0.66
5:E:420:THR:CG2	5:E:472:SER:O	2.42	0.66
1:A:1088:TRP:CE2	1:A:1092:TRP:NE1	2.59	0.65
1:A:1596:ARG:NH1	1:A:1909:LYS:HE3	2.11	0.65
1:A:1634:ILE:C	1:A:1634:ILE:HD12	2.14	0.65
1:A:3267:LEU:N	1:A:3267:LEU:HD12	2.12	0.65
2:B:411:ALA:HA	2:B:414:VAL:HG23	1.78	0.65
2:B:429:LEU:HD11	2:B:489:PHE:CE1	2.31	0.65
2:B:523:LEU:HD23	2:B:523:LEU:C	2.16	0.65
2:B:794:LEU:CA	2:B:797:PHE:HD2	2.02	0.65
2:B:799:VAL:HB	2:B:800:LYS:N	2.09	0.65
2:B:1115:ASP:C	2:B:1119:LYS:NZ	2.49	0.65
2:B:1423:TYR:O	2:B:1427:VAL:HG23	1.96	0.65
3:C:360:PRO:N	3:C:361:PRO:HD2	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2670:LYS:HD2	3:C:2670:LYS:C	2.17	0.65
3:C:2774:VAL:HG12	3:C:2780:VAL:HG22	1.78	0.65
4:D:106:ILE:CD1	15:O:99:SER:OG	2.39	0.65
4:D:417:ILE:CD1	4:D:474:VAL:HG23	2.26	0.65
5:E:47:PHE:C	12:L:88:PHE:CE2	2.70	0.65
8:H:12:LYS:HE2	8:H:80:TYR:CZ	2.30	0.65
9:I:81:GLU:OE1	9:I:102:ASN:CB	2.44	0.65
10:J:77:HIS:ND1	11:K:70:VAL:HG23	2.05	0.65
1:A:121:GLY:N	2:B:106:LYS:HA	2.06	0.65
1:A:332:PRO:N	1:A:380:ARG:CB	2.59	0.65
1:A:3651:GLN:HE22	1:A:3837:THR:HG22	1.60	0.65
2:B:655:LYS:CE	2:B:708:TYR:OH	2.38	0.65
2:B:732:VAL:O	2:B:735:PRO:HG2	1.95	0.65
2:B:783:MET:HE1	2:B:847:VAL:HG21	1.79	0.65
2:B:1377:PRO:CB	2:B:1424:GLU:OE2	2.44	0.65
5:E:99:ILE:HD11	6:F:31:ILE:CD1	2.19	0.65
5:E:117:GLU:HG3	6:F:17:LEU:CG	2.21	0.65
15:O:45:ARG:CG	15:O:63:LEU:CD1	2.74	0.65
1:A:1183:LEU:HD23	1:A:1183:LEU:C	2.17	0.65
2:B:731:PRO:O	2:B:735:PRO:HD3	1.96	0.65
2:B:910:GLY:HA2	2:B:995:TYR:HD1	1.59	0.65
2:B:1119:LYS:HB3	2:B:1138:LYS:CD	2.25	0.65
2:B:1242:GLN:O	2:B:1251:SER:CA	2.44	0.65
2:B:1705:LYS:HG2	2:B:1825:TRP:CD1	2.32	0.65
2:B:3119:LYS:HB3	2:B:3119:LYS:HZ3	1.58	0.65
3:C:287:PHE:HB3	3:C:320:PRO:HB2	1.78	0.65
4:D:134:LYS:HB2	4:D:134:LYS:NZ	2.11	0.65
4:D:170:THR:CG2	13:M:66:ILE:HA	2.21	0.65
4:D:421:GLY:HA3	4:D:441:LEU:CD1	2.22	0.65
1:A:614:PHE:CE1	1:A:648:LEU:HG	2.31	0.65
1:A:728:ASN:ND2	4:D:396:THR:CG2	2.45	0.65
1:A:1190:LEU:HD23	1:A:1190:LEU:C	2.17	0.65
2:B:883:ASN:HA	2:B:886:ILE:HG23	1.76	0.65
2:B:1116:PHE:CA	2:B:1119:LYS:HZ2	2.07	0.65
2:B:1329:PRO:C	2:B:1412:PHE:CB	2.65	0.65
2:B:3121:LEU:HD13	2:B:3121:LEU:C	2.16	0.65
4:D:576:LEU:HD13	4:D:576:LEU:C	2.16	0.65
4:D:590:LEU:N	4:D:590:LEU:HD12	2.11	0.65
5:E:48:ILE:CA	12:L:88:PHE:HE2	2.08	0.65
6:F:56:TRP:HZ2	6:F:91:GLN:OE1	1.65	0.65
12:L:77:ILE:N	12:L:77:ILE:HD12	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:906:LEU:CD1	1:A:998:VAL:CG1	1.85	0.65
1:A:3442:LYS:HD2	1:A:3485:THR:HA	1.77	0.65
2:B:1242:GLN:C	2:B:1251:SER:N	2.50	0.65
2:B:3826:THR:HG22	2:B:3942:LEU:HD21	1.77	0.65
4:D:572:ASN:HD21	4:D:643:LYS:HD2	1.61	0.65
5:E:258:GLU:OE1	5:E:258:GLU:N	2.19	0.65
8:H:52:ARG:HA	18:R:63:ASN:CA	2.26	0.65
15:O:22:LEU:HD12	15:O:23:ASN:OD1	1.93	0.65
1:A:580:LEU:HD21	1:A:640:SER:N	2.12	0.65
1:A:666:SER:CB	1:A:695:LEU:HD13	2.27	0.65
1:A:906:LEU:HB3	1:A:998:VAL:CG1	2.26	0.65
1:A:1026:LEU:HD23	1:A:1026:LEU:C	2.17	0.65
1:A:3212:VAL:HG23	1:A:3338:ALA:HB1	1.79	0.65
1:A:3236:ILE:CA	1:A:3333:LEU:CD2	2.59	0.65
1:A:3446:ASN:OD1	1:A:3488:LEU:CD2	2.40	0.65
2:B:736:LEU:CD1	2:B:859:TYR:CB	2.72	0.65
2:B:1116:PHE:HA	2:B:1119:LYS:HZ3	1.62	0.65
2:B:1329:PRO:CB	2:B:1413:GLU:N	2.59	0.65
2:B:3235:LYS:HB3	2:B:3237:PRO:HD2	1.77	0.65
2:B:3445:LYS:CG	2:B:3487:PRO:HB3	2.27	0.65
3:C:972:LEU:HD21	3:C:1017:MET:CE	2.27	0.65
3:C:2720:PRO:HB3	3:C:2798:PHE:CE2	2.04	0.65
3:C:2772:LYS:HD3	3:C:2772:LYS:C	2.16	0.65
4:D:331:LEU:HD12	4:D:331:LEU:N	2.11	0.65
5:E:203:LEU:HD23	5:E:203:LEU:C	2.16	0.65
5:E:394:TRP:HE1	5:E:401:PRO:CD	2.10	0.65
12:L:75:GLN:CB	13:M:65:ILE:HG23	2.19	0.65
1:A:50:LEU:O	1:A:102:ALA:CB	2.40	0.65
1:A:598:ARG:CZ	4:D:546:VAL:CG1	2.74	0.65
1:A:1013:VAL:CA	1:A:1016:PHE:HE1	2.09	0.65
1:A:1205:GLN:HE21	1:A:1272:LEU:HB3	1.61	0.65
3:C:2698:LEU:HD11	3:C:2768:LEU:O	1.97	0.65
4:D:148:GLU:CG	4:D:149:PRO:CD	2.68	0.65
4:D:170:THR:CG2	13:M:66:ILE:HG13	2.16	0.65
1:A:870:PRO:C	1:A:871:LEU:CD1	2.64	0.65
1:A:1642:ALA:HB2	1:A:1652:GLN:CB	2.26	0.65
2:B:441:LYS:O	5:E:518:ASN:ND2	2.30	0.65
2:B:927:ARG:HH12	2:B:976:LEU:CB	2.10	0.65
2:B:1058:LYS:HD3	2:B:1167:MET:SD	2.37	0.65
2:B:1115:ASP:C	2:B:1119:LYS:HZ2	1.99	0.65
2:B:1559:MET:HG2	2:B:1577:ARG:NH2	2.07	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3300:GLU:OE2	2:B:3354:LYS:HE3	1.91	0.65
2:B:3402:LYS:C	2:B:3402:LYS:HD3	2.16	0.65
3:C:268:ILE:HD13	3:C:301:TRP:CH2	2.32	0.65
3:C:3732:HIS:CG	3:C:3757:LEU:HD12	2.32	0.65
5:E:377:ASN:HD22	5:E:377:ASN:N	1.94	0.65
15:O:95:LEU:O	15:O:95:LEU:HD12	1.96	0.65
1:A:596:LEU:HD12	1:A:596:LEU:N	2.12	0.65
1:A:948:LEU:CG	1:A:1010:LYS:HG2	2.26	0.65
1:A:1596:ARG:HG2	1:A:1603:TYR:CZ	2.32	0.65
2:B:724:HIS:CE1	2:B:728:CYS:SG	2.90	0.65
3:C:114:LEU:HD13	3:C:114:LEU:O	1.97	0.65
4:D:177:ASN:ND2	13:M:60:ASN:CG	2.51	0.65
4:D:297:LYS:HB3	4:D:316:LEU:HB3	1.77	0.65
6:F:91:GLN:CD	6:F:96:THR:HG21	2.17	0.65
11:K:84:GLN:OE1	11:K:84:GLN:N	2.27	0.65
1:A:604:ALA:H	1:A:698:GLU:CD	1.98	0.65
1:A:952:GLN:HG2	1:A:1006:ILE:HG21	1.79	0.65
1:A:1136:MET:HA	1:A:1136:MET:CE	2.26	0.65
2:B:973:THR:CB	3:C:344:ASN:HB2	2.27	0.65
2:B:3118:TYR:CB	2:B:3455:SER:CB	2.70	0.65
3:C:2730:LEU:HD12	3:C:2730:LEU:N	2.12	0.65
4:D:93:THR:HG22	4:D:95:LYS:HG2	1.78	0.65
4:D:105:MET:HE3	14:N:47:THR:O	1.96	0.65
4:D:265:ARG:HB2	5:E:125:GLN:CG	2.27	0.65
4:D:569:TYR:HH	4:D:578:LYS:CD	1.99	0.65
6:F:74:ILE:HA	7:G:130:THR:HA	1.79	0.65
10:J:29:PRO:HB3	15:O:106:GLN:HE22	1.62	0.65
10:J:48:LEU:HD23	10:J:60:ILE:HD13	1.77	0.65
10:J:97:TYR:HB2	10:J:106:LEU:HD13	1.79	0.65
1:A:95:PHE:CA	1:A:124:THR:CB	2.75	0.64
1:A:690:LEU:N	1:A:690:LEU:HD12	2.12	0.64
1:A:1162:LEU:O	1:A:1162:LEU:HD23	1.97	0.64
2:B:433:ILE:CG2	2:B:463:PHE:CZ	2.45	0.64
2:B:954:ASP:OD2	3:C:282:ARG:HD3	1.97	0.64
2:B:1237:ARG:HH21	2:B:1262:ASP:CB	2.10	0.64
2:B:1612:LEU:HD21	2:B:1637:CYS:SG	2.36	0.64
2:B:3453:LEU:HD22	2:B:3492:ILE:CD1	2.27	0.64
3:C:180:LEU:HD23	3:C:187:TRP:CE2	2.32	0.64
3:C:2771:PHE:O	3:C:2775:VAL:HG23	1.97	0.64
3:C:4049:ILE:HD11	3:C:4110:ALA:HB1	1.80	0.64
5:E:72:GLY:HA2	8:H:68:PHE:HA	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:35:CYS:HB3	8:H:40:GLU:HB3	1.79	0.64
10:J:77:HIS:CG	11:K:70:VAL:HG23	2.32	0.64
10:J:79:PHE:CG	11:K:68:ALA:HB1	2.32	0.64
1:A:576:TYR:CE1	1:A:620:PRO:C	2.66	0.64
1:A:1069:TYR:CD1	1:A:1078:THR:CG2	2.80	0.64
1:A:3312:GLN:HG2	1:A:3312:GLN:O	1.97	0.64
2:B:3231:VAL:O	2:B:3339:TRP:CD1	2.50	0.64
3:C:269:PHE:HB2	3:C:291:SER:HB3	1.77	0.64
3:C:272:SER:OG	3:C:322:GLU:HG3	1.96	0.64
4:D:248:MET:CE	7:G:147:VAL:CB	2.69	0.64
5:E:395:VAL:HG22	5:E:402:ILE:HD12	1.75	0.64
9:I:67:LEU:HD12	9:I:75:TRP:CE2	2.32	0.64
10:J:79:PHE:CE2	11:K:88:LEU:HD23	2.32	0.64
17:Q:175:ASN:HA	17:Q:179:MET:O	1.98	0.64
1:A:992:ASP:OD2	1:A:995:ILE:HG12	1.97	0.64
1:A:1201:TYR:HA	1:A:1204:LYS:HB2	1.79	0.64
1:A:3121:LEU:HD23	1:A:3429:TRP:HB2	1.64	0.64
2:B:595:LEU:HD23	5:E:389:TRP:CH2	2.33	0.64
2:B:963:PHE:CE2	3:C:103:THR:N	2.66	0.64
2:B:970:ALA:HB3	3:C:345:TRP:CZ3	1.86	0.64
3:C:2606:GLY:CA	3:C:2910:TRP:CZ3	2.80	0.64
3:C:2903:LEU:HD23	3:C:2903:LEU:C	2.17	0.64
4:D:543:MET:SD	4:D:563:MET:HB3	2.36	0.64
7:G:79:VAL:HG23	7:G:146:ILE:HD12	1.79	0.64
1:A:14:LYS:CA	2:B:19:SER:O	2.45	0.64
1:A:598:ARG:HD3	4:D:319:TYR:HE1	1.60	0.64
1:A:694:GLN:HA	4:D:321:PHE:CZ	2.33	0.64
1:A:791:LEU:CD1	1:A:795:ILE:HD11	2.28	0.64
1:A:906:LEU:CD1	1:A:998:VAL:CG2	2.75	0.64
1:A:948:LEU:HD22	1:A:948:LEU:N	2.13	0.64
2:B:446:GLY:CA	5:E:512:GLU:OE2	2.43	0.64
2:B:581:ASN:HD21	5:E:184:MET:HE1	1.58	0.64
2:B:3231:VAL:HG13	2:B:3339:TRP:CD1	2.32	0.64
3:C:159:TYR:HD1	3:C:179:VAL:HG21	1.60	0.64
4:D:105:MET:CE	14:N:47:THR:O	2.45	0.64
4:D:510:ASN:HD22	4:D:552:PRO:HA	1.61	0.64
5:E:271:LEU:N	5:E:271:LEU:HD12	2.13	0.64
10:J:19:LYS:HG2	10:J:28:TRP:CD2	2.33	0.64
14:N:81:ILE:HA	15:O:87:PHE:O	1.98	0.64
1:A:576:TYR:CE1	1:A:624:PHE:N	2.65	0.64
1:A:597:VAL:O	1:A:600:MET:HB2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1066:VAL:HG12	1:A:1068:THR:H	1.61	0.64
1:A:1487:VAL:HA	1:A:1490:PHE:CE2	2.32	0.64
2:B:582:MET:HE2	2:B:587:GLY:N	2.12	0.64
2:B:1212:ILE:HG22	2:B:1213:PRO:HD2	1.78	0.64
4:D:91:TYR:HE2	13:M:80:LEU:CB	1.94	0.64
5:E:252:ILE:HG13	5:E:253:MET:HG2	1.79	0.64
5:E:384:LEU:CD2	5:E:417:TRP:NE1	2.61	0.64
8:H:62:GLY:HA2	9:I:83:TYR:HA	1.79	0.64
9:I:5:LYS:HA	9:I:9:ASP:HB2	1.78	0.64
1:A:644:LEU:HA	1:A:647:GLN:HG3	1.79	0.64
1:A:1118:LEU:HD22	1:A:1118:LEU:H	1.61	0.64
1:A:3249:ILE:HD11	1:A:3273:TYR:CA	2.27	0.64
2:B:730:LEU:HD12	2:B:787:LEU:HD12	1.80	0.64
2:B:969:LEU:HD22	3:C:343:ASN:HA	1.80	0.64
3:C:2669:ILE:CD1	3:C:2847:ALA:HB3	2.09	0.64
4:D:172:GLU:HB2	12:L:51:LYS:HG2	1.80	0.64
4:D:348:ALA:HB1	4:D:368:TYR:HB2	1.80	0.64
5:E:22:ASP:HB2	14:N:91:THR:N	2.12	0.64
8:H:70:THR:H	9:I:76:GLN:HG2	1.62	0.64
2:B:58:SER:H	2:B:71:CYS:CB	2.05	0.64
2:B:552:LYS:HG3	2:B:622:VAL:HG22	1.79	0.64
2:B:3133:ILE:HG12	2:B:3440:LEU:HD13	1.80	0.64
3:C:29:VAL:HG23	3:C:92:ALA:HA	1.80	0.64
3:C:268:ILE:CD1	3:C:301:TRP:CZ2	2.80	0.64
3:C:2730:LEU:CD1	3:C:2730:LEU:H	2.11	0.64
8:H:84:LEU:HD12	8:H:84:LEU:N	2.12	0.64
14:N:24:VAL:HG13	14:N:25:PHE:CD2	2.31	0.64
15:O:31:PRO:HD3	15:O:109:ASN:HD22	1.62	0.64
1:A:1140:GLU:OE2	4:D:165:LYS:CG	2.46	0.64
2:B:958:GLU:OE1	2:B:958:GLU:N	2.31	0.64
3:C:98:PHE:CD1	3:C:111:THR:HG22	2.32	0.64
3:C:195:ASN:O	3:C:239:TRP:CZ2	2.50	0.64
4:D:114:ASP:OD2	5:E:43:ARG:N	2.30	0.64
12:L:55:LEU:C	12:L:55:LEU:HD23	2.18	0.64
1:A:95:PHE:O	1:A:124:THR:CA	2.45	0.64
1:A:3128:THR:CG2	1:A:3422:LEU:HB3	2.28	0.64
1:A:3449:LEU:CD2	1:A:3488:LEU:HD23	2.24	0.64
2:B:224:ASP:HA	2:B:347:ILE:CB	2.28	0.64
2:B:521:PHE:CZ	2:B:605:LYS:HB3	2.32	0.64
2:B:578:LEU:HD23	2:B:587:GLY:HA3	1.78	0.64
2:B:595:LEU:HD21	5:E:389:TRP:HZ2	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:734:GLU:N	2:B:735:PRO:HD2	2.12	0.64
2:B:935:ASN:HB3	3:C:283:THR:HG22	1.79	0.64
2:B:1145:LYS:O	2:B:1149:ASP:CB	2.46	0.64
2:B:1455:VAL:CG1	2:B:1456:PHE:N	2.61	0.64
2:B:3155:GLU:HA	2:B:3155:GLU:OE2	1.98	0.64
2:B:3257:ARG:HG2	2:B:3276:VAL:HG11	1.79	0.64
3:C:208:MET:HG3	3:C:208:MET:O	1.97	0.64
4:D:75:LEU:CG	15:O:102:LEU:HD11	2.25	0.64
5:E:126:ILE:HG13	5:E:128:LEU:HG	1.78	0.64
8:H:62:GLY:HA3	9:I:83:TYR:CA	2.28	0.64
14:N:8:TYR:CE1	14:N:13:VAL:CG2	2.80	0.64
16:P:24:ASN:HA	16:P:96:GLY:CA	2.28	0.64
16:P:53:LEU:O	16:P:57:ILE:N	2.25	0.64
1:A:753:LEU:O	1:A:753:LEU:HD23	1.97	0.64
1:A:1067:PRO:C	1:A:1078:THR:OG1	2.36	0.64
1:A:3124:ILE:HD12	1:A:3429:TRP:HD1	1.61	0.64
2:B:1129:ALA:HA	2:B:1132:GLU:OE2	1.98	0.64
2:B:1566:ASN:CB	3:C:2275:LYS:CE	2.76	0.64
3:C:214:LEU:HD13	3:C:232:TYR:O	1.97	0.64
3:C:217:PHE:HB2	3:C:229:ILE:HG12	1.80	0.64
4:D:106:ILE:HD12	4:D:106:ILE:O	1.97	0.64
4:D:208:TYR:CZ	9:I:100:ASN:CB	2.76	0.64
4:D:414:PHE:CD2	4:D:426:TRP:HD1	2.03	0.64
10:J:26:VAL:HA	10:J:98:PHE:HA	1.80	0.64
1:A:841:ILE:CD1	1:A:961:ALA:CB	2.76	0.63
1:A:3191:LYS:HG2	1:A:3360:GLU:HG3	1.79	0.63
1:A:3212:VAL:CG2	1:A:3338:ALA:CB	2.69	0.63
1:A:3421:SER:HB2	1:A:3716:LEU:CD2	2.28	0.63
2:B:1132:GLU:O	2:B:1136:ASP:CG	2.36	0.63
2:B:2190:LYS:HE3	20:B:5601:ATP:O1B	1.98	0.63
3:C:2606:GLY:HA3	3:C:2910:TRP:CH2	2.32	0.63
3:C:2613:THR:HG21	3:C:3176:LEU:CD2	2.23	0.63
3:C:2698:LEU:HD23	3:C:2698:LEU:C	2.18	0.63
3:C:2745:LYS:CE	3:C:2749:VAL:CB	2.76	0.63
4:D:252:VAL:CA	7:G:149:GLN:HE22	2.10	0.63
5:E:267:HIS:CD2	5:E:322:LEU:HB3	2.33	0.63
5:E:366:HIS:HE1	5:E:394:TRP:CH2	2.16	0.63
6:F:74:ILE:HD12	6:F:77:ILE:CD1	2.23	0.63
10:J:32:CYS:HG	10:J:96:ILE:HD11	1.61	0.63
11:K:42:ILE:HG22	11:K:62:VAL:HG21	1.79	0.63
1:A:837:GLN:NE2	1:A:958:ALA:CB	2.59	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1031:ILE:CG2	1:A:1034:SER:HG	2.11	0.63
1:A:1126:VAL:HG12	1:A:1132:LEU:HD12	1.79	0.63
2:B:89:ILE:N	2:B:100:THR:CB	2.60	0.63
2:B:1230:MET:HE2	2:B:1267:TYR:CA	2.28	0.63
2:B:2758:GLN:HE22	2:B:2834:TYR:H	1.47	0.63
2:B:2904:THR:HG21	2:B:2911:ILE:HB	1.80	0.63
2:B:3085:VAL:HG23	2:B:3477:TRP:CE2	2.33	0.63
3:C:354:VAL:HG13	3:C:357:ILE:HB	1.78	0.63
3:C:2720:PRO:O	3:C:2798:PHE:HZ	1.79	0.63
3:C:2730:LEU:HD12	3:C:2730:LEU:H	1.63	0.63
10:J:26:VAL:HG23	10:J:98:PHE:HA	1.79	0.63
10:J:86:CYS:CB	11:K:61:VAL:HG22	2.26	0.63
1:A:7:SER:C	1:A:9:ARG:H	2.02	0.63
1:A:3306:LEU:CD1	1:A:3310:LEU:CG	2.72	0.63
2:B:744:MET:HE1	2:B:772:ILE:HG23	1.81	0.63
2:B:902:ILE:HG21	2:B:1076:LEU:HD11	1.79	0.63
2:B:3164:VAL:HG11	2:B:3409:ALA:CB	2.23	0.63
2:B:3239:VAL:CG1	2:B:3291:ILE:HD11	2.28	0.63
2:B:3422:LEU:HD21	2:B:3706:ILE:HG22	1.80	0.63
5:E:166:GLU:HA	5:E:166:GLU:OE2	1.98	0.63
1:A:326:PRO:CB	1:A:372:GLN:O	2.47	0.63
1:A:598:ARG:CD	4:D:319:TYR:CE1	2.80	0.63
1:A:614:PHE:CE1	1:A:644:LEU:CB	2.81	0.63
1:A:1029:GLU:HA	1:A:1088:TRP:CH2	2.34	0.63
2:B:444:LEU:HD21	2:B:526:ASN:HB2	1.80	0.63
2:B:555:LEU:HD23	2:B:625:LEU:CD1	2.29	0.63
2:B:787:LEU:O	2:B:791:HIS:HD2	1.81	0.63
2:B:900:PHE:HZ	2:B:933:TRP:CH2	2.16	0.63
3:C:12:GLN:CG	3:C:69:TRP:HE1	2.12	0.63
4:D:172:GLU:CB	13:M:64:HIS:HB2	2.21	0.63
7:G:58:SER:C	7:G:59:GLU:HA	2.18	0.63
8:H:60:ILE:HA	9:I:85:TYR:CB	2.28	0.63
9:I:20:ILE:C	9:I:100:ASN:HD21	2.02	0.63
1:A:669:ALA:CB	1:A:689:ASP:OD2	2.47	0.63
1:A:804:ASN:HD22	5:E:148:LYS:HB3	1.56	0.63
1:A:1619:GLU:HA	1:A:1619:GLU:OE1	1.99	0.63
2:B:718:ILE:HD11	2:B:773:VAL:CG2	2.28	0.63
2:B:798:ASN:CB	2:B:874:ALA:CA	2.76	0.63
2:B:1375:VAL:N	2:B:1420:LEU:CB	2.61	0.63
2:B:1458:PHE:HD1	2:B:1560:MET:HE3	1.64	0.63
3:C:2726:THR:CA	3:C:2729:LEU:CG	2.57	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:564:ASP:HA	4:D:590:LEU:HD13	1.80	0.63
5:E:60:SER:HB3	10:J:87:GLN:CG	2.27	0.63
6:F:26:PHE:CE2	6:F:52:VAL:HG11	2.34	0.63
8:H:66:GLY:CA	9:I:56:ILE:HG22	1.99	0.63
1:A:1634:ILE:CD1	1:A:1656:ILE:HG23	2.28	0.63
2:B:58:SER:N	2:B:70:LYS:C	2.51	0.63
2:B:467:VAL:HG13	2:B:471:THR:OG1	1.91	0.63
2:B:1058:LYS:HB2	2:B:1166:GLU:CB	2.28	0.63
2:B:1330:TRP:HA	2:B:1410:PHE:HA	1.79	0.63
4:D:205:PHE:CZ	9:I:12:ILE:HG22	2.33	0.63
5:E:198:TYR:HB3	5:E:208:PRO:HB3	1.80	0.63
6:F:52:VAL:HG23	6:F:89:ILE:HD13	1.79	0.63
7:G:119:PRO:CG	9:I:12:ILE:CG2	2.63	0.63
10:J:87:GLN:OE1	11:K:44:SER:CB	2.45	0.63
1:A:1522:GLU:HA	1:A:1541:PHE:HZ	1.64	0.63
2:B:724:HIS:NE2	2:B:728:CYS:SG	2.71	0.63
2:B:2237:VAL:HG22	2:B:2639:LEU:HD22	1.80	0.63
2:B:3162:VAL:HG12	2:B:3166:LYS:HE3	1.81	0.63
3:C:1207:LEU:HD13	3:C:1214:TYR:CE1	2.34	0.63
4:D:177:ASN:OD1	13:M:60:ASN:CG	2.36	0.63
4:D:395:HIS:NE2	4:D:399:VAL:HG13	2.00	0.63
5:E:266:THR:HG21	5:E:320:THR:CA	2.11	0.63
1:A:326:PRO:O	1:A:376:ASN:CB	2.46	0.63
1:A:608:ILE:HD11	1:A:701:CYS:HB3	1.79	0.63
1:A:2496:GLY:HA2	19:A:4701:ADP:PB	2.38	0.63
2:B:1107:ARG:HH21	2:B:1172:LYS:CE	2.12	0.63
2:B:1464:THR:O	2:B:1466:THR:HG23	1.98	0.63
2:B:3139:GLY:HA2	2:B:3695:LEU:CD2	2.29	0.63
3:C:2745:LYS:CE	3:C:2749:VAL:CG2	2.66	0.63
4:D:392:ASN:O	4:D:435:PRO:HG3	1.98	0.63
4:D:499:HIS:NE2	4:D:528:TRP:HH2	1.97	0.63
4:D:503:VAL:HA	4:D:520:SER:HA	1.81	0.63
4:D:528:TRP:CE2	4:D:535:GLN:CB	2.80	0.63
5:E:48:ILE:CB	12:L:88:PHE:CE2	2.81	0.63
5:E:343:LEU:CD2	5:E:358:ARG:HG2	2.28	0.63
5:E:394:TRP:NE1	5:E:401:PRO:N	2.47	0.63
6:F:35:ARG:HG3	6:F:41:SER:HA	1.80	0.63
8:H:52:ARG:N	18:R:63:ASN:HA	2.13	0.63
12:L:80:LYS:HG2	12:L:103:LYS:HG2	1.81	0.63
17:Q:7:CYS:O	17:Q:11:ILE:N	2.27	0.63
1:A:53:ILE:CA	1:A:54:PHE:N	2.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:670:LEU:HD23	1:A:670:LEU:C	2.19	0.63
1:A:819:VAL:CA	1:A:840:TYR:CE2	2.82	0.63
2:B:658:GLN:CD	2:B:672:ASN:O	2.37	0.63
2:B:660:LEU:HG	2:B:755:ILE:CD1	2.14	0.63
2:B:721:ASN:OD1	2:B:777:PHE:CD2	2.52	0.63
2:B:973:THR:HG21	3:C:343:ASN:C	2.19	0.63
2:B:1447:ILE:HD13	2:B:1484:LEU:CB	2.29	0.63
2:B:2188:SER:O	20:B:5601:ATP:H5'2	1.99	0.63
2:B:3121:LEU:HD12	2:B:3451:SER:OG	1.99	0.63
2:B:3445:LYS:CB	2:B:3487:PRO:CB	2.76	0.63
3:C:1983:THR:HG22	19:C:4702:ADP:C6	2.34	0.63
3:C:2780:VAL:HG12	3:C:2786:ASN:ND2	2.13	0.63
3:C:3227:ALA:HA	3:C:3393:ILE:HG22	1.81	0.63
4:D:174:GLN:NE2	12:L:50:GLU:N	2.46	0.63
4:D:242:LYS:HG2	7:G:60:VAL:HG23	1.79	0.63
4:D:564:ASP:HA	4:D:590:LEU:CD1	2.28	0.63
5:E:110:LYS:CG	6:F:10:GLN:CD	2.67	0.63
1:A:155:GLY:HA2	2:B:167:GLN:O	1.96	0.62
1:A:971:ASN:CA	1:A:985:PHE:CE2	2.61	0.62
2:B:99:LEU:O	2:B:100:THR:C	2.35	0.62
2:B:861:ASP:OD2	3:C:170:GLN:CD	2.36	0.62
3:C:1983:THR:CG2	19:C:4702:ADP:N1	2.61	0.62
3:C:2721:GLU:OE1	3:C:2814:CYS:CA	2.42	0.62
4:D:242:LYS:HG2	7:G:60:VAL:HG22	1.81	0.62
5:E:156:GLU:OE1	5:E:156:GLU:HA	1.98	0.62
5:E:310:LEU:CD1	5:E:358:ARG:HH12	2.03	0.62
10:J:79:PHE:HA	11:K:68:ALA:HB2	1.81	0.62
1:A:1052:LEU:HD13	1:A:1166:TYR:CG	2.33	0.62
1:A:1100:LEU:HD23	1:A:1100:LEU:O	1.99	0.62
1:A:1638:THR:CB	1:A:1655:GLN:HG2	2.23	0.62
1:A:3212:VAL:HG13	1:A:3335:TRP:CD1	2.33	0.62
2:B:1458:PHE:HZ	2:B:1563:VAL:HG12	1.64	0.62
2:B:2192:CYS:SG	20:B:5601:ATP:H2'	2.39	0.62
3:C:898:TRP:O	3:C:902:LEU:HD13	1.99	0.62
3:C:2799:THR:HB	3:C:2800:PRO:HD3	1.80	0.62
4:D:77:PRO:CA	15:O:102:LEU:HD23	2.27	0.62
4:D:170:THR:HG21	13:M:66:ILE:HG13	1.68	0.62
4:D:180:ILE:CB	10:J:75:TYR:HE1	2.12	0.62
4:D:567:GLN:NE2	4:D:578:LYS:HE3	2.13	0.62
5:E:58:GLU:CA	10:J:89:VAL:HA	2.29	0.62
1:A:3099:TYR:HA	1:A:3451:THR:CG2	2.25	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3255:GLU:OE1	1:A:3270:LYS:HA	1.99	0.62
1:A:3322:ALA:HB1	1:A:3330:ALA:HA	1.82	0.62
2:B:60:ASN:HA	2:B:81:ILE:HA	0.80	0.62
2:B:1438:ALA:O	2:B:1442:LYS:HG3	1.98	0.62
2:B:3114:LEU:HD22	2:B:3460:TYR:CE2	2.34	0.62
2:B:3822:LEU:HD12	2:B:4282:LEU:HD13	1.81	0.62
4:D:66:LEU:HB2	4:D:70:MET:HB2	1.80	0.62
4:D:96:PHE:CD2	11:K:47:LYS:NZ	2.68	0.62
5:E:20:PHE:CE2	15:O:80:LYS:HD2	2.25	0.62
5:E:52:ASN:OD1	12:L:22:ARG:NH2	2.33	0.62
6:F:26:PHE:CE1	6:F:49:ALA:CB	2.82	0.62
8:H:29:LYS:HB2	8:H:29:LYS:NZ	2.14	0.62
8:H:60:ILE:CB	9:I:85:TYR:HB3	2.28	0.62
1:A:830:LEU:HD12	1:A:830:LEU:N	2.14	0.62
1:A:906:LEU:CB	1:A:998:VAL:CG1	2.77	0.62
1:A:3273:TYR:HD1	1:A:3276:SER:H	1.47	0.62
2:B:53:ILE:O	2:B:87:LYS:HA	1.98	0.62
2:B:945:GLN:O	2:B:945:GLN:HG2	2.00	0.62
2:B:1487:MET:HA	2:B:3612:ASP:OD2	1.99	0.62
2:B:2666:ARG:HD2	20:B:5601:ATP:PG	2.35	0.62
2:B:3252:VAL:CG2	2:B:3330:SER:OG	2.47	0.62
3:C:136:ALA:HB2	3:C:168:ASN:OD1	1.98	0.62
3:C:2795:MET:N	3:C:2796:PRO:CD	2.61	0.62
4:D:89:TYR:CE2	11:K:56:PRO:HG3	2.33	0.62
16:P:24:ASN:N	16:P:96:GLY:HA2	2.14	0.62
16:P:57:ILE:O	16:P:62:LYS:HA	1.99	0.62
1:A:617:ILE:HG21	1:A:644:LEU:HG	1.82	0.62
1:A:3194:ALA:HB3	1:A:3356:VAL:HG22	1.77	0.62
2:B:532:THR:HG22	2:B:536:ILE:CD1	2.28	0.62
2:B:789:LYS:CB	2:B:839:LEU:CD1	2.76	0.62
2:B:3261:ILE:O	2:B:3306:ILE:HD13	1.99	0.62
3:C:13:THR:O	3:C:68:GLU:HA	2.00	0.62
3:C:24:HIS:CE1	3:C:325:SER:HG	2.00	0.62
3:C:190:LEU:HD23	3:C:232:TYR:OH	1.99	0.62
3:C:278:GLU:HA	3:C:278:GLU:OE1	1.98	0.62
11:K:77:PHE:CZ	11:K:88:LEU:CD1	2.73	0.62
1:A:847:PHE:HZ	1:A:851:LYS:HZ2	1.48	0.62
1:A:861:ASP:OD2	5:E:152:LEU:HD12	2.00	0.62
1:A:935:VAL:HG21	1:A:1017:LEU:CD2	2.26	0.62
2:B:429:LEU:HD22	2:B:492:PHE:CD2	2.35	0.62
2:B:714:ALA:HA	2:B:717:MET:HE2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1054:ILE:HG12	2:B:1098:TYR:HB3	1.82	0.62
2:B:1458:PHE:CZ	2:B:1563:VAL:HG12	2.34	0.62
2:B:2264:ASP:O	2:B:2625:ARG:NH2	2.32	0.62
3:C:2584:LEU:HD21	3:C:2935:VAL:HG11	1.80	0.62
4:D:327:GLY:HA3	4:D:349:GLY:HA2	1.81	0.62
5:E:50:LEU:CD2	12:L:23:PHE:CB	2.78	0.62
5:E:91:GLU:N	5:E:91:GLU:OE1	2.33	0.62
14:N:115:MET:HE1	15:O:129:CYS:SG	2.38	0.62
1:A:728:ASN:HD21	4:D:396:THR:CG2	2.03	0.62
1:A:3191:LYS:HB2	1:A:3191:LYS:HZ2	1.65	0.62
2:B:583:PRO:HA	5:E:186:PHE:CD2	2.34	0.62
2:B:2544:LYS:H	19:B:5501:ADP:PA	2.18	0.62
3:C:2581:LEU:HD11	3:C:2936:SER:OG	1.99	0.62
3:C:2694:ALA:HA	3:C:2819:ASN:HB3	1.81	0.62
5:E:304:LEU:HD13	5:E:353:VAL:HG11	1.80	0.62
7:G:99:ILE:HG23	7:G:103:ILE:HD12	1.81	0.62
1:A:603:GLU:HA	1:A:603:GLU:OE2	1.99	0.62
1:A:892:TRP:CH2	7:G:14:GLN:N	2.68	0.62
1:A:3251:ILE:CD1	17:Q:61:SER:CA	2.42	0.62
2:B:10:PRO:C	2:B:25:GLN:CA	2.60	0.62
2:B:501:ARG:CZ	4:D:491:GLN:CB	2.78	0.62
2:B:532:THR:H	2:B:536:ILE:CD1	2.06	0.62
3:C:2800:PRO:HB3	3:C:2818:VAL:HG21	1.81	0.62
4:D:80:PRO:CD	15:O:103:TRP:CE2	2.83	0.62
5:E:20:PHE:CZ	15:O:80:LYS:CE	2.73	0.62
16:P:34:ASP:O	16:P:69:LEU:N	2.32	0.62
1:A:635:ARG:HA	1:A:638:TYR:HD2	1.62	0.62
1:A:1567:ASN:HB3	1:A:1570:LEU:HD13	1.82	0.62
2:B:598:ARG:NH1	5:E:389:TRP:CD1	2.68	0.62
2:B:3269:LEU:H	2:B:3269:LEU:HD13	1.63	0.62
3:C:540:LYS:CB	3:C:705:LYS:H	2.12	0.62
4:D:292:GLU:OE1	4:D:292:GLU:N	2.19	0.62
8:H:11:ILE:HG22	8:H:79:LEU:CB	2.30	0.62
11:K:89:LEU:HD12	11:K:89:LEU:C	2.21	0.62
1:A:906:LEU:HD12	1:A:998:VAL:HG21	1.82	0.62
1:A:967:LYS:O	1:A:967:LYS:HG2	1.99	0.62
1:A:2839:LEU:HD11	19:A:4901:ADP:C5	2.28	0.62
1:A:3306:LEU:HD11	1:A:3310:LEU:HG	1.81	0.62
2:B:17:ARG:CB	2:B:21:ALA:HB3	2.30	0.62
2:B:518:TYR:CD1	5:E:404:ARG:NH1	2.55	0.62
2:B:730:LEU:CD1	2:B:787:LEU:CD1	2.78	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:962:PHE:HA	3:C:104:SER:HB2	1.81	0.62
2:B:1792:THR:HG22	2:B:2038:ASN:ND2	2.15	0.62
2:B:3118:TYR:HD2	2:B:3455:SER:CB	2.13	0.62
3:C:783:SER:CB	3:C:838:TRP:CZ2	2.83	0.62
3:C:2018:GLN:CD	19:C:4702:ADP:H2'	2.19	0.62
4:D:111:MET:HE1	15:O:90:ILE:CG2	2.23	0.62
5:E:395:VAL:HG23	5:E:402:ILE:HG13	1.80	0.62
1:A:600:MET:HE2	1:A:697:ARG:NH1	2.15	0.61
1:A:655:PHE:CZ	1:A:659:TRP:NE1	2.67	0.61
1:A:868:LEU:N	1:A:868:LEU:HD12	2.14	0.61
1:A:1436:ILE:HG23	1:A:1474:ASP:OD2	1.99	0.61
1:A:1597:LYS:HE3	1:A:1962:ILE:HD11	1.82	0.61
2:B:409:SER:HB2	2:B:413:PHE:CB	2.29	0.61
2:B:913:PHE:CE2	2:B:1078:ILE:CD1	2.79	0.61
4:D:361:ALA:N	5:E:133:PHE:CZ	2.68	0.61
8:H:8:GLN:HA	8:H:8:GLN:OE1	2.00	0.61
1:A:52:LYS:O	1:A:105:LYS:HA	2.00	0.61
1:A:1126:VAL:CG1	1:A:1131:SER:O	2.47	0.61
2:B:429:LEU:HB3	2:B:492:PHE:HE2	1.65	0.61
2:B:721:ASN:OD1	2:B:777:PHE:HD2	1.83	0.61
2:B:790:ILE:HG12	2:B:836:ILE:HG23	1.81	0.61
2:B:1458:PHE:CD1	2:B:1560:MET:HE3	2.35	0.61
2:B:1611:PHE:CE1	2:B:1923:MET:HG3	2.35	0.61
3:C:12:GLN:OE1	3:C:12:GLN:N	2.33	0.61
3:C:24:HIS:NE2	3:C:325:SER:HB3	2.14	0.61
4:D:75:LEU:CB	15:O:102:LEU:CD1	2.45	0.61
4:D:80:PRO:CG	15:O:103:TRP:HZ2	2.05	0.61
4:D:184:GLY:HA2	11:K:69:TYR:CD1	2.28	0.61
4:D:541:LEU:HD12	4:D:545:VAL:HG22	1.82	0.61
5:E:16:ASN:N	15:O:132:GLU:HG3	2.14	0.61
5:E:20:PHE:HZ	15:O:80:LYS:CG	1.64	0.61
5:E:112:LEU:CD2	6:F:97:MET:HE2	2.30	0.61
5:E:112:LEU:O	5:E:112:LEU:HD23	2.00	0.61
14:N:25:PHE:CZ	14:N:103:ILE:CG2	2.47	0.61
1:A:1143:ARG:HD2	4:D:169:ASN:HD21	1.65	0.61
1:A:3306:LEU:HA	1:A:3309:TYR:HD2	1.65	0.61
2:B:2512:VAL:HG11	2:B:2687:ILE:HA	1.83	0.61
2:B:3109:LYS:HE2	2:B:3113:GLU:OE2	1.99	0.61
3:C:2585:PHE:HB2	3:C:2932:SER:OG	2.00	0.61
5:E:188:GLN:OE1	5:E:188:GLN:HA	1.99	0.61
6:F:35:ARG:HE	6:F:41:SER:HB2	1.62	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:84:GLN:HG3	15:O:61:GLU:CA	2.23	0.61
1:A:888:ARG:NH2	7:G:5:THR:CB	2.63	0.61
1:A:948:LEU:CB	1:A:1010:LYS:CD	2.79	0.61
1:A:3386:ASN:O	1:A:3390:VAL:CG2	2.40	0.61
2:B:690:LEU:HD12	2:B:690:LEU:O	2.00	0.61
2:B:3236:LYS:N	2:B:3237:PRO:HD2	2.14	0.61
3:C:2745:LYS:CE	3:C:2749:VAL:CG1	2.51	0.61
3:C:2800:PRO:HB3	3:C:2818:VAL:CG2	2.29	0.61
4:D:91:TYR:HB2	13:M:28:VAL:HG11	1.82	0.61
4:D:648:GLU:HA	4:D:651:LYS:HE2	1.81	0.61
14:N:72:ILE:CB	15:O:97:ILE:CG1	2.73	0.61
14:N:84:GLN:CB	15:O:64:VAL:HG21	2.24	0.61
15:O:95:LEU:HD12	15:O:95:LEU:C	2.20	0.61
18:R:98:MET:C	18:R:100:GLY:H	2.03	0.61
1:A:552:PHE:CA	1:A:568:ARG:HH12	2.13	0.61
1:A:590:GLN:OE1	1:A:590:GLN:HA	2.00	0.61
1:A:677:ARG:HH21	1:A:684:LEU:HD21	1.65	0.61
1:A:753:LEU:HD23	1:A:753:LEU:C	2.20	0.61
1:A:753:LEU:N	1:A:754:PRO:HD2	2.16	0.61
1:A:1458:MET:SD	1:A:1552:MET:HG3	2.40	0.61
1:A:1636:LYS:O	1:A:1657:GLN:HB2	2.01	0.61
2:B:551:TYR:CD2	2:B:622:VAL:CG1	2.83	0.61
2:B:681:LEU:HD13	2:B:701:ILE:HG22	1.82	0.61
2:B:792:LYS:HE3	2:B:796:ASN:HD21	1.65	0.61
2:B:914:ASP:N	2:B:915:PRO:HD2	2.14	0.61
3:C:142:ALA:N	3:C:143:PRO:HD2	2.16	0.61
4:D:106:ILE:O	15:O:99:SER:N	2.33	0.61
4:D:186:SER:HB3	10:J:58:GLN:HB2	1.83	0.61
4:D:212:ILE:CG1	9:I:19:MET:HE3	2.29	0.61
4:D:386:TYR:HE1	5:E:142:VAL:CG1	2.13	0.61
4:D:395:HIS:CE1	4:D:399:VAL:CG1	2.71	0.61
4:D:517:ILE:HG13	4:D:550:TRP:CZ2	2.29	0.61
5:E:120:ILE:HA	6:F:101:GLN:OE1	2.01	0.61
5:E:343:LEU:HD22	5:E:358:ARG:HG2	1.82	0.61
1:A:819:VAL:N	1:A:840:TYR:HE2	1.99	0.61
1:A:906:LEU:CG	1:A:998:VAL:CG1	2.56	0.61
1:A:1616:GLN:OE1	1:A:1616:GLN:HA	1.99	0.61
1:A:3260:LYS:HZ1	1:A:3267:LEU:HD21	1.65	0.61
2:B:638:ASP:HA	2:B:641:ILE:CG2	2.31	0.61
2:B:984:ASN:HA	2:B:987:ARG:CG	2.30	0.61
3:C:29:VAL:HG12	3:C:95:MET:SD	2.40	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:213:GLN:HG2	3:C:233:ASP:HB3	1.82	0.61
4:D:70:MET:HE2	5:E:13:GLU:CB	2.29	0.61
12:L:28:GLN:HA	12:L:28:GLN:HE21	1.65	0.61
1:A:604:ALA:CB	1:A:698:GLU:CG	2.78	0.61
1:A:763:LEU:C	1:A:763:LEU:CD1	2.67	0.61
1:A:2676:TRP:CE2	1:A:2699:LEU:HD21	2.36	0.61
1:A:3042:PHE:CZ	1:A:3100:LYS:CE	2.80	0.61
1:A:3121:LEU:HD23	1:A:3429:TRP:CG	2.32	0.61
2:B:578:LEU:HD12	2:B:578:LEU:N	2.15	0.61
2:B:876:GLN:O	2:B:880:LEU:HG	2.00	0.61
2:B:1106:PHE:CZ	2:B:1160:ILE:CD1	2.76	0.61
2:B:1172:LYS:HB2	2:B:1176:VAL:HG23	1.83	0.61
2:B:1641:LEU:HD13	2:B:1662:MET:HB2	1.82	0.61
3:C:143:PRO:CG	3:C:187:TRP:NE1	2.63	0.61
3:C:213:GLN:NE2	3:C:231:ILE:HD12	2.16	0.61
4:D:248:MET:HE1	7:G:147:VAL:CG2	2.29	0.61
5:E:37:ILE:HG23	5:E:37:ILE:O	2.01	0.61
1:A:576:TYR:CE1	1:A:620:PRO:HA	2.36	0.61
1:A:1524:VAL:CG2	1:A:1611:LEU:HD22	2.30	0.61
2:B:408:THR:O	2:B:412:LEU:CB	2.49	0.61
2:B:658:GLN:OE1	2:B:674:ASP:HB2	2.01	0.61
2:B:886:ILE:CD1	2:B:972:ILE:HG23	2.29	0.61
2:B:954:ASP:H	3:C:222:PHE:HB2	1.66	0.61
2:B:1470:LEU:C	2:B:1474:MET:HG2	2.21	0.61
2:B:2070:LYS:HD2	2:B:2309:ARG:HA	1.83	0.61
2:B:3694:LEU:HD21	2:B:3715:ASN:HB3	1.81	0.61
3:C:268:ILE:CD1	3:C:301:TRP:CH2	2.84	0.61
3:C:2617:VAL:HG23	3:C:3183:ILE:HD13	1.83	0.61
4:D:90:ASP:OD2	13:M:32:LYS:CD	2.49	0.61
4:D:399:VAL:HG23	4:D:399:VAL:O	2.00	0.61
4:D:517:ILE:HD13	4:D:527:ILE:CG2	2.17	0.61
1:A:770:LEU:HD22	1:A:774:SER:CB	2.30	0.61
1:A:1142:ILE:CD1	1:A:1190:LEU:HD21	2.30	0.61
1:A:1600:PRO:HB2	1:A:1917:SER:HB3	1.81	0.61
1:A:1603:TYR:O	1:A:1909:LYS:HE2	2.01	0.61
1:A:3442:LYS:HG3	1:A:3485:THR:HG22	1.81	0.61
2:B:467:VAL:CA	2:B:471:THR:OG1	2.49	0.61
2:B:584:PRO:HD3	5:E:186:PHE:HD2	1.66	0.61
2:B:1055:THR:HG22	2:B:1166:GLU:OE1	2.01	0.61
3:C:2581:LEU:HG	3:C:2936:SER:HB3	1.83	0.61
3:C:2614:ALA:HB2	3:C:2903:LEU:HD11	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2790:ASN:HA	3:C:2793:LEU:HD12	1.81	0.61
4:D:184:GLY:N	11:K:69:TYR:CE1	2.68	0.61
4:D:201:GLN:OE1	9:I:102:ASN:CA	2.48	0.61
4:D:252:VAL:HA	7:G:149:GLN:HE22	1.66	0.61
4:D:499:HIS:CD2	4:D:528:TRP:CH2	2.88	0.61
5:E:395:VAL:HG21	5:E:402:ILE:CD1	1.88	0.61
12:L:92:VAL:HG11	12:L:109:LYS:HD3	1.83	0.61
15:O:81:ILE:HD12	15:O:81:ILE:N	2.16	0.61
15:O:91:LYS:HB2	15:O:91:LYS:NZ	2.15	0.61
1:A:970:TYR:C	1:A:983:ALA:O	2.39	0.61
1:A:3211:ALA:O	1:A:3215:ILE:HG13	2.01	0.61
1:A:3232:ILE:HD13	1:A:3316:TRP:CZ3	2.25	0.61
2:B:453:THR:HG21	5:E:511:ARG:HD2	1.83	0.61
2:B:648:VAL:HG22	2:B:680:LEU:HD11	1.82	0.61
2:B:791:HIS:NE2	2:B:866:ILE:HD13	2.15	0.61
2:B:956:LEU:HD11	2:B:960:ARG:HE	1.66	0.61
2:B:2191:THR:OG1	20:B:5601:ATP:O2A	2.18	0.61
2:B:3129:ILE:HD11	2:B:3447:MET:HG3	1.83	0.61
3:C:205:ALA:HB1	3:C:216:ILE:HG22	1.80	0.61
4:D:174:GLN:HB3	13:M:62:GLY:HA3	1.79	0.61
4:D:552:PRO:CG	4:D:595:PHE:HD2	2.13	0.61
16:P:82:PHE:O	16:P:84:ALA:N	2.28	0.61
1:A:948:LEU:HB2	1:A:1010:LYS:HD2	1.83	0.60
1:A:3384:ILE:O	1:A:3388:LYS:HG3	2.01	0.60
2:B:1230:MET:CE	2:B:1267:TYR:N	2.64	0.60
2:B:3314:ILE:HD12	2:B:3344:VAL:HG11	1.83	0.60
3:C:53:PRO:HD2	3:C:53:PRO:O	2.01	0.60
3:C:1983:THR:CB	19:C:4702:ADP:N6	2.59	0.60
3:C:2621:GLU:OE2	3:C:2900:VAL:CG2	2.49	0.60
4:D:208:TYR:HE1	9:I:22:LYS:HB2	1.65	0.60
4:D:405:ASN:HD22	4:D:406:PRO:CD	2.00	0.60
4:D:585:VAL:CG1	4:D:588:PRO:CG	2.79	0.60
5:E:258:GLU:H	5:E:258:GLU:CD	2.03	0.60
5:E:418:SER:HB2	5:E:426:PHE:HE1	1.66	0.60
9:I:87:VAL:HG12	9:I:89:VAL:HG13	1.82	0.60
14:N:116:ALA:HB3	15:O:131:PHE:CZ	2.35	0.60
15:O:16:GLU:HA	15:O:16:GLU:OE2	2.01	0.60
1:A:590:GLN:O	1:A:609:TRP:CH2	2.54	0.60
1:A:747:ILE:CD1	1:A:889:TYR:CZ	2.66	0.60
1:A:1013:VAL:HG13	1:A:1016:PHE:CE1	2.35	0.60
1:A:1134:TYR:CD2	1:A:1268:ARG:NE	2.51	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1449:ILE:CA	1:A:1459:LEU:HD23	2.12	0.60
1:A:4287:THR:HG22	1:A:4549:ILE:HD12	1.84	0.60
2:B:1485:MET:CB	2:B:1505:ARG:HE	2.05	0.60
2:B:2663:VAL:HG23	2:B:2668:GLN:HG3	1.83	0.60
2:B:3269:LEU:HD22	2:B:3269:LEU:O	2.01	0.60
5:E:24:GLU:CD	14:N:91:THR:HG22	2.21	0.60
6:F:11:LEU:CD2	6:F:23:TYR:CZ	2.50	0.60
7:G:120:THR:HG23	9:I:12:ILE:HG21	1.80	0.60
10:J:27:LEU:HG	10:J:29:PRO:HD2	1.82	0.60
14:N:75:GLN:HA	14:N:75:GLN:OE1	2.00	0.60
16:P:27:ASN:CB	16:P:95:GLU:HA	2.32	0.60
1:A:696:ILE:HD13	1:A:720:GLU:HG3	1.83	0.60
1:A:899:LEU:HD22	1:A:995:ILE:HD11	1.83	0.60
1:A:3215:ILE:HG21	1:A:3219:ASP:CG	2.19	0.60
1:A:3250:PRO:O	1:A:3250:PRO:HD2	2.01	0.60
2:B:957:GLN:CA	3:C:220:TRP:CZ3	2.78	0.60
3:C:163:GLY:HA2	3:C:174:PHE:HB2	1.84	0.60
3:C:2581:LEU:HD13	3:C:2937:TYR:CZ	2.36	0.60
4:D:405:ASN:HB3	4:D:413:ASN:HB2	1.83	0.60
5:E:57:SER:O	10:J:90:HIS:O	2.18	0.60
5:E:60:SER:CB	10:J:87:GLN:HA	2.32	0.60
5:E:394:TRP:HE1	5:E:401:PRO:HD3	1.66	0.60
8:H:11:ILE:O	8:H:11:ILE:HG13	2.01	0.60
9:I:89:VAL:HG11	9:I:108:PHE:HB2	1.83	0.60
14:N:8:TYR:OH	14:N:13:VAL:HG21	2.01	0.60
1:A:1013:VAL:O	1:A:1016:PHE:CE1	2.54	0.60
2:B:1458:PHE:CD1	2:B:1560:MET:HE1	2.35	0.60
3:C:2703:LYS:HD2	3:C:2703:LYS:N	2.16	0.60
3:C:3938:LEU:HD12	3:C:3982:LYS:HD3	1.81	0.60
4:D:242:LYS:CG	7:G:60:VAL:CG2	2.75	0.60
4:D:528:TRP:CD1	4:D:535:GLN:CB	2.85	0.60
4:D:556:THR:HG22	4:D:644:ILE:HD12	1.84	0.60
6:F:56:TRP:CD2	6:F:91:GLN:CD	2.72	0.60
1:A:651:TYR:HA	1:A:654:TRP:HB3	1.83	0.60
1:A:3249:ILE:HD11	1:A:3273:TYR:HA	1.78	0.60
2:B:473:VAL:HG22	2:B:476:ASP:HB2	1.83	0.60
2:B:805:LYS:HG3	2:B:805:LYS:O	2.01	0.60
2:B:953:GLY:HA2	3:C:222:PHE:HD1	1.65	0.60
2:B:1142:SER:O	2:B:1146:VAL:CG2	2.39	0.60
2:B:1467:PHE:CE1	2:B:1569:VAL:HG11	2.36	0.60
2:B:1531:ILE:CD1	2:B:1595:LEU:HD13	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1612:LEU:CG	2:B:1637:CYS:SG	2.89	0.60
2:B:3231:VAL:CG2	2:B:3342:ASN:CB	2.78	0.60
3:C:504:ALA:HB3	3:C:525:LYS:CB	2.31	0.60
3:C:2734:PHE:CZ	3:C:2767:LYS:CG	2.83	0.60
4:D:66:LEU:H	4:D:66:LEU:CD2	2.13	0.60
4:D:92:TYR:HB3	13:M:29:LYS:HA	1.83	0.60
6:F:11:LEU:HB3	6:F:23:TYR:CZ	2.35	0.60
7:G:58:SER:O	7:G:62:ASP:CA	2.50	0.60
11:K:62:VAL:HG22	11:K:87:ILE:HG23	1.84	0.60
13:M:79:GLU:OE1	13:M:79:GLU:HA	2.01	0.60
18:R:42:ASN:O	18:R:43:ILE:CB	2.49	0.60
1:A:1048:TYR:HE1	1:A:1100:LEU:CA	2.15	0.60
2:B:473:VAL:HG13	2:B:473:VAL:O	2.02	0.60
2:B:794:LEU:CD1	2:B:867:VAL:HA	2.31	0.60
2:B:1456:PHE:CD1	2:B:1467:PHE:CD1	2.86	0.60
3:C:258:ALA:HB1	3:C:357:ILE:CD1	2.31	0.60
3:C:2018:GLN:OE1	19:C:4702:ADP:C2	2.53	0.60
3:C:2177:ILE:HG22	3:C:2233:PRO:HA	1.84	0.60
3:C:2725:ALA:O	3:C:2728:TYR:CD2	2.54	0.60
4:D:292:GLU:H	4:D:292:GLU:CD	2.04	0.60
5:E:57:SER:O	10:J:90:HIS:ND1	2.35	0.60
12:L:99:LEU:O	12:L:102:ARG:HG3	2.02	0.60
16:P:10:THR:CA	16:P:65:ASP:CB	2.74	0.60
1:A:801:ILE:CD1	1:A:862:LEU:CD2	2.78	0.60
2:B:567:GLN:HA	2:B:567:GLN:OE1	2.01	0.60
2:B:642:LEU:C	2:B:642:LEU:HD13	2.21	0.60
2:B:902:ILE:HG12	2:B:915:PRO:HG3	1.82	0.60
3:C:2721:GLU:OE2	3:C:2721:GLU:HA	2.01	0.60
4:D:297:LYS:CE	4:D:316:LEU:CD2	2.71	0.60
4:D:364:ALA:HB1	4:D:414:PHE:CE1	2.34	0.60
6:F:56:TRP:CZ2	6:F:91:GLN:CD	2.51	0.60
6:F:76:VAL:HG22	6:F:90:THR:HG22	1.84	0.60
1:A:1162:LEU:HD23	1:A:1162:LEU:C	2.22	0.60
1:A:3442:LYS:CB	1:A:3485:THR:CG2	2.74	0.60
2:B:425:ASP:O	2:B:489:PHE:HZ	1.83	0.60
2:B:2333:PRO:O	20:B:5601:ATP:C2	2.55	0.60
2:B:3125:LYS:HE2	2:B:3447:MET:CB	2.31	0.60
3:C:2800:PRO:CD	3:C:2801:GLU:N	2.60	0.60
4:D:128:GLU:OE1	4:D:128:GLU:HA	2.01	0.60
4:D:261:TYR:CE1	5:E:126:ILE:HD11	2.37	0.60
4:D:269:SER:CB	4:D:618:PRO:HD3	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:48:ILE:CG1	12:L:23:PHE:CE2	2.84	0.60
6:F:11:LEU:CD2	6:F:23:TYR:HE1	1.85	0.60
12:L:77:ILE:CG1	13:M:65:ILE:CD1	2.70	0.60
15:O:76:VAL:O	15:O:76:VAL:HG12	2.01	0.60
16:P:39:TRP:CA	16:P:40:SER:N	2.64	0.60
1:A:95:PHE:C	1:A:124:THR:CB	2.70	0.60
1:A:761:LEU:HD11	1:A:872:ASP:OD2	2.00	0.60
1:A:847:PHE:CZ	1:A:851:LYS:NZ	2.66	0.60
1:A:1012:LYS:HB2	1:A:1071:ILE:HD12	1.79	0.60
1:A:1445:PHE:CD2	1:A:1564:CYS:HB2	2.30	0.60
2:B:177:PRO:CB	2:B:200:ILE:CB	2.79	0.60
2:B:558:VAL:HG11	2:B:599:ILE:HD11	1.84	0.60
2:B:910:GLY:HA2	2:B:995:TYR:CE1	2.36	0.60
2:B:1458:PHE:CE1	2:B:1560:MET:CE	2.84	0.60
2:B:1467:PHE:CE2	2:B:1560:MET:CE	2.85	0.60
2:B:3143:LEU:CD2	2:B:3698:LEU:HD11	2.32	0.60
2:B:3433:TRP:HH2	2:B:3695:LEU:HD21	1.66	0.60
3:C:128:ILE:HG22	3:C:128:ILE:O	2.01	0.60
7:G:64:LEU:HB3	7:G:76:TYR:CZ	2.36	0.60
16:P:27:ASN:HA	16:P:95:GLU:HA	1.83	0.60
1:A:607:ILE:HD13	1:A:655:PHE:CD2	2.36	0.60
1:A:1146:GLN:HA	1:A:1187:TRP:HZ2	1.67	0.60
1:A:1634:ILE:HG23	1:A:1634:ILE:O	2.02	0.60
1:A:2839:LEU:HD13	19:A:4901:ADP:C2	2.26	0.60
2:B:902:ILE:HG23	2:B:915:PRO:CG	2.32	0.60
2:B:1471:ASP:HA	2:B:1474:MET:HB2	1.83	0.60
3:C:346:LEU:H	3:C:346:LEU:CD1	2.15	0.60
3:C:540:LYS:CB	3:C:701:ASN:O	2.50	0.60
3:C:2673:VAL:HA	3:C:2841:THR:CA	2.29	0.60
4:D:107:VAL:HG11	15:O:96:ARG:HH21	1.67	0.60
4:D:107:VAL:HG22	15:O:97:ILE:O	1.99	0.60
5:E:323:GLU:OE1	5:E:323:GLU:HA	2.02	0.60
15:O:45:ARG:HB2	15:O:63:LEU:CD1	2.32	0.60
1:A:694:GLN:HA	4:D:321:PHE:CE2	2.36	0.59
1:A:763:LEU:CD2	1:A:780:TYR:OH	2.49	0.59
2:B:512:ASP:O	2:B:515:ASP:OD1	2.18	0.59
2:B:844:LEU:HD23	2:B:844:LEU:C	2.22	0.59
2:B:1110:GLN:O	2:B:1114:LEU:CD2	2.49	0.59
2:B:2237:VAL:CG2	2:B:2639:LEU:HD22	2.32	0.59
2:B:3153:LEU:HD12	2:B:3707:LEU:CD1	1.94	0.59
3:C:2708:GLN:CG	3:C:2809:ALA:HB1	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:111:MET:HE3	15:O:90:ILE:CB	2.29	0.59
8:H:77:ILE:HG22	8:H:88:LEU:HD11	1.84	0.59
1:A:2839:LEU:HA	19:A:4901:ADP:C2	2.37	0.59
2:B:59:THR:H	2:B:82:ASP:C	2.06	0.59
2:B:737:VAL:O	2:B:737:VAL:HG13	2.01	0.59
2:B:913:PHE:HE2	2:B:1078:ILE:HD11	1.66	0.59
2:B:1492:LYS:HZ1	2:B:3606:GLN:HB2	1.67	0.59
2:B:1531:ILE:CD1	2:B:1618:LEU:CD2	2.79	0.59
2:B:2462:ASN:ND2	2:B:2479:CYS:SG	2.75	0.59
3:C:2698:LEU:HD23	3:C:2698:LEU:O	2.02	0.59
3:C:3412:HIS:HA	3:C:3415:ILE:HD12	1.84	0.59
5:E:71:ARG:NH1	8:H:71:PHE:CE2	2.67	0.59
5:E:119:CYS:CB	6:F:88:ILE:CD1	2.74	0.59
6:F:56:TRP:CE3	6:F:74:ILE:CD1	2.80	0.59
1:A:935:VAL:CB	1:A:944:LEU:CD2	2.79	0.59
1:A:1012:LYS:HE2	1:A:1071:ILE:HB	0.67	0.59
1:A:1613:ILE:HD11	1:A:1626:ASP:CB	2.31	0.59
1:A:2697:ARG:HH11	19:A:4701:ADP:PB	2.22	0.59
2:B:532:THR:HG23	2:B:532:THR:O	2.02	0.59
2:B:572:MET:O	2:B:572:MET:HG2	2.00	0.59
2:B:657:LYS:O	2:B:657:LYS:HG3	2.02	0.59
5:E:61:VAL:HG21	10:J:106:LEU:CG	2.32	0.59
8:H:76:TYR:HD1	8:H:89:PHE:HB3	1.67	0.59
1:A:1644:ASP:N	1:A:1644:ASP:OD1	2.33	0.59
1:A:3271:GLU:OE1	1:A:3272:SER:O	2.19	0.59
2:B:467:VAL:O	2:B:471:THR:HB	1.99	0.59
2:B:3210:SER:HB3	2:B:3363:ALA:HB1	1.85	0.59
4:D:75:LEU:CD1	15:O:102:LEU:HD12	2.29	0.59
4:D:174:GLN:NE2	12:L:49:LEU:HB3	2.16	0.59
4:D:584:ILE:HG23	4:D:614:VAL:HG21	1.84	0.59
5:E:123:ASN:HB2	6:F:101:GLN:HE22	1.67	0.59
17:Q:68:LEU:CB	17:Q:92:ASP:CB	2.79	0.59
1:A:761:LEU:C	1:A:761:LEU:CD1	2.70	0.59
1:A:1048:TYR:HE1	1:A:1100:LEU:HA	1.67	0.59
1:A:1270:GLU:CB	1:A:1277:ASN:OD1	2.50	0.59
1:A:1422:SER:HB2	1:A:1486:HIS:HE1	1.49	0.59
3:C:265:LYS:HE2	3:C:356:THR:HG22	0.68	0.59
3:C:3528:LEU:HB3	3:C:3868:CYS:SG	2.42	0.59
4:D:212:ILE:CD1	9:I:19:MET:HE1	2.06	0.59
5:E:58:GLU:HB2	10:J:88:ALA:O	2.03	0.59
5:E:143:GLU:OE2	5:E:491:CYS:SG	2.61	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:600:MET:SD	1:A:701:CYS:SG	3.00	0.59
1:A:794:LEU:C	1:A:794:LEU:CD1	2.71	0.59
1:A:1134:TYR:HB2	1:A:1268:ARG:NE	2.15	0.59
1:A:3124:ILE:CD1	1:A:3429:TRP:HD1	2.11	0.59
1:A:3210:GLU:O	1:A:3214:SER:HB3	2.02	0.59
2:B:585:ILE:CD1	2:B:647:GLU:OE1	2.50	0.59
2:B:736:LEU:O	2:B:736:LEU:HD23	2.02	0.59
2:B:962:PHE:HB3	2:B:965:ILE:HD13	1.85	0.59
2:B:3125:LYS:HE2	2:B:3447:MET:CG	2.32	0.59
2:B:3231:VAL:HG13	2:B:3343:ILE:HG13	1.84	0.59
3:C:160:ILE:O	3:C:160:ILE:HG13	2.02	0.59
3:C:357:ILE:O	3:C:357:ILE:HG22	2.02	0.59
3:C:2698:LEU:CD1	3:C:2772:LYS:HB2	2.32	0.59
3:C:4077:LEU:HD13	3:C:4105:MET:HG2	1.82	0.59
4:D:199:ILE:HG12	9:I:104:ALA:HB2	1.84	0.59
10:J:61:ALA:HA	10:J:80:PHE:CE2	2.34	0.59
14:N:72:ILE:CG1	15:O:97:ILE:CG1	2.81	0.59
1:A:1013:VAL:CG2	1:A:1076:LEU:HD21	2.32	0.59
1:A:3046:PHE:HE2	1:A:3104:ILE:CD1	2.16	0.59
2:B:909:SER:O	2:B:995:TYR:HE1	1.86	0.59
3:C:2706:PHE:CD1	3:C:2761:PRO:HG3	2.37	0.59
3:C:2754:SER:HA	3:C:2757:LEU:HD12	1.85	0.59
4:D:61:LEU:O	4:D:61:LEU:HD13	2.03	0.59
5:E:20:PHE:CD2	15:O:80:LYS:NZ	2.69	0.59
5:E:403:ILE:HD11	5:E:512:GLU:HG3	1.85	0.59
6:F:74:ILE:CD1	6:F:77:ILE:HD11	2.28	0.59
14:N:115:MET:HE2	15:O:129:CYS:SG	2.42	0.59
1:A:596:LEU:N	1:A:596:LEU:CD1	2.66	0.59
1:A:760:ASP:O	1:A:764:ARG:CG	2.47	0.59
1:A:1013:VAL:HG22	1:A:1076:LEU:HD11	1.83	0.59
1:A:1121:LYS:CB	1:A:1138:THR:CG2	2.66	0.59
1:A:3194:ALA:CB	1:A:3356:VAL:HG21	2.30	0.59
1:A:4599:CYS:O	1:A:4599:CYS:SG	2.60	0.59
2:B:954:ASP:OD1	3:C:222:PHE:O	2.19	0.59
2:B:1079:ASN:HD21	2:B:1081:GLN:HB2	1.68	0.59
2:B:1119:LYS:CB	2:B:1138:LYS:HD3	2.33	0.59
2:B:1205:PHE:HA	2:B:1208:LYS:HB2	1.84	0.59
2:B:2609:MET:N	2:B:2610:PRO:HD2	2.18	0.59
4:D:194:THR:HB	9:I:88:THR:HG22	1.85	0.59
4:D:194:THR:HA	9:I:88:THR:HA	1.85	0.59
6:F:24:VAL:O	6:F:97:MET:HB2	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:85:TYR:CE2	9:I:106:LEU:HD22	2.37	0.59
10:J:35:ASP:CB	15:O:32:SER:HB3	2.33	0.59
10:J:77:HIS:HA	11:K:70:VAL:HG23	1.84	0.59
14:N:115:MET:CE	15:O:129:CYS:HB2	2.30	0.59
1:A:598:ARG:HB2	4:D:504:TYR:CE1	2.36	0.59
1:A:1133:GLY:HA2	1:A:1272:LEU:HG	1.84	0.59
1:A:1154:ASN:HB3	1:A:1155:PRO:HD3	1.83	0.59
1:A:2162:GLY:HA2	20:A:4801:ATP:O1A	2.03	0.59
1:A:3043:ILE:HD12	1:A:3060:MET:HG3	1.85	0.59
1:A:3110:LEU:HD12	1:A:3443:LEU:CD2	2.22	0.59
2:B:429:LEU:HD13	2:B:492:PHE:CD2	2.38	0.59
2:B:725:ILE:HG21	2:B:776:LEU:CD2	2.33	0.59
2:B:1387:MET:HA	2:B:1434:ALA:HB1	1.85	0.59
2:B:3150:VAL:HG22	2:B:3707:LEU:CD2	2.33	0.59
4:D:330:CYS:HB3	4:D:340:PRO:HB3	1.85	0.59
4:D:518:SER:OG	4:D:528:TRP:CH2	2.53	0.59
1:A:1012:LYS:HE2	1:A:1071:ILE:CG2	2.30	0.59
1:A:1069:TYR:HD1	1:A:1078:THR:CG2	2.15	0.59
2:B:448:LYS:HE3	2:B:452:LEU:HD21	1.84	0.59
2:B:642:LEU:HD11	2:B:646:LYS:HE3	1.85	0.59
2:B:1242:GLN:CB	2:B:1252:MET:O	2.51	0.59
2:B:1511:VAL:O	2:B:1570:VAL:HG22	2.03	0.59
2:B:3264:ASN:CA	2:B:3306:ILE:CD1	2.80	0.59
3:C:96:LEU:HD12	3:C:96:LEU:C	2.22	0.59
3:C:1541:LEU:HD13	3:C:1584:LEU:HD22	1.84	0.59
3:C:2585:PHE:CB	3:C:2932:SER:CB	2.74	0.59
3:C:2746:PRO:CD	3:C:2747:LYS:N	2.64	0.59
5:E:58:GLU:O	5:E:58:GLU:HG3	2.02	0.59
5:E:119:CYS:SG	6:F:88:ILE:HG21	2.42	0.59
12:L:28:GLN:HE21	12:L:28:GLN:CA	2.16	0.59
15:O:25:ILE:HG22	15:O:27:ASN:HB2	1.85	0.59
1:A:594:PRO:CG	1:A:606:LYS:HG2	2.32	0.58
2:B:450:LYS:HD3	5:E:507:GLU:OE2	2.03	0.58
2:B:3178:VAL:HG12	2:B:3395:LEU:HD21	1.69	0.58
3:C:1081:ILE:HD11	3:C:1117:GLN:HB3	1.85	0.58
3:C:2798:PHE:CG	3:C:2803:MET:SD	2.96	0.58
4:D:601:ILE:HD11	4:D:613:LEU:HD13	1.84	0.58
5:E:452:VAL:HG21	5:E:478:ILE:HD12	1.84	0.58
6:F:81:THR:CB	7:G:121:ASN:OD1	2.50	0.58
12:L:49:LEU:HD22	12:L:49:LEU:N	2.18	0.58
1:A:203:SER:O	1:A:207:GLN:CB	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:473:LEU:O	1:A:478:LEU:CB	2.51	0.58
1:A:761:LEU:CD2	1:A:874:HIS:CE1	2.76	0.58
1:A:1525:PHE:CG	1:A:1541:PHE:CD2	2.80	0.58
1:A:3210:GLU:O	1:A:3214:SER:CB	2.52	0.58
1:A:3268:PHE:HE1	17:Q:35:ILE:CB	2.02	0.58
2:B:984:ASN:CA	2:B:987:ARG:HG2	2.33	0.58
2:B:1140:LEU:HD13	2:B:1285:GLU:CB	2.33	0.58
3:C:2721:GLU:HG2	3:C:2803:MET:HE2	1.85	0.58
3:C:2745:LYS:CD	3:C:2749:VAL:HG11	2.31	0.58
4:D:89:TYR:CE2	11:K:56:PRO:CG	2.86	0.58
4:D:531:LYS:NZ	4:D:532:TYR:CE2	2.71	0.58
11:K:77:PHE:HZ	11:K:88:LEU:HD11	1.63	0.58
1:A:397:ILE:C	1:A:489:LYS:CB	2.71	0.58
1:A:613:LEU:CD2	4:D:523:TRP:CZ2	2.86	0.58
1:A:1013:VAL:CG1	1:A:1017:LEU:HD11	2.30	0.58
1:A:3117:PHE:CG	1:A:3429:TRP:HZ3	2.21	0.58
1:A:3421:SER:HB3	1:A:3716:LEU:CG	2.30	0.58
2:B:439:LEU:CD1	2:B:503:LEU:HD21	2.33	0.58
2:B:439:LEU:HD23	2:B:439:LEU:C	2.23	0.58
3:C:2708:GLN:HE22	3:C:2813:ILE:HG13	1.68	0.58
4:D:164:ASN:H	4:D:167:ASN:HB3	1.69	0.58
4:D:175:THR:HG23	13:M:61:PHE:O	2.03	0.58
4:D:412:TYR:HB2	4:D:428:LEU:HD22	1.84	0.58
13:M:44:GLU:OE1	13:M:44:GLU:HA	2.03	0.58
14:N:116:ALA:CB	15:O:131:PHE:CZ	2.86	0.58
1:A:615:GLN:OE1	4:D:500:LEU:HD21	2.03	0.58
1:A:1013:VAL:HA	1:A:1076:LEU:HD11	1.84	0.58
2:B:721:ASN:CG	2:B:773:VAL:HG12	2.23	0.58
2:B:1329:PRO:O	2:B:1412:PHE:CB	2.51	0.58
2:B:1604:LYS:HA	2:B:1945:GLN:HE22	1.68	0.58
3:C:2578:PHE:O	3:C:2582:ILE:HG13	2.02	0.58
3:C:2742:LYS:HE3	3:C:2785:VAL:CG2	2.29	0.58
4:D:265:ARG:HB2	5:E:125:GLN:CD	2.23	0.58
4:D:404:TRP:HZ3	4:D:412:TYR:HB3	1.68	0.58
5:E:104:SER:HB3	5:E:106:PRO:HD2	1.86	0.58
8:H:10:VAL:HB	8:H:80:TYR:CZ	2.38	0.58
11:K:18:MET:CE	11:K:18:MET:HA	2.33	0.58
1:A:690:LEU:N	1:A:690:LEU:CD1	2.67	0.58
1:A:944:LEU:HD11	1:A:1013:VAL:HG12	1.85	0.58
2:B:516:THR:HG21	5:E:406:LYS:HA	1.83	0.58
2:B:578:LEU:H	2:B:578:LEU:CD1	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:927:ARG:HH12	2:B:976:LEU:HB3	1.67	0.58
2:B:1584:TRP:HA	2:B:1584:TRP:CE3	2.39	0.58
3:C:1559:LEU:HD23	3:C:1607:LEU:HD21	1.84	0.58
3:C:2119:ILE:HG21	3:C:2122:THR:HG23	1.86	0.58
3:C:2726:THR:N	3:C:2729:LEU:HD11	2.18	0.58
3:C:2793:LEU:O	3:C:2796:PRO:CG	2.48	0.58
5:E:70:ASP:HA	8:H:69:VAL:O	2.04	0.58
9:I:23:ALA:HB1	9:I:97:MET:HE1	1.85	0.58
1:A:670:LEU:HA	1:A:692:ILE:HD12	1.86	0.58
2:B:582:MET:O	5:E:186:PHE:CB	2.50	0.58
2:B:867:VAL:HG12	2:B:944:ILE:HD13	1.85	0.58
2:B:1002:GLN:HG2	2:B:1094:TRP:NE1	2.19	0.58
2:B:3231:VAL:HG22	2:B:3343:ILE:N	2.18	0.58
3:C:288:VAL:O	3:C:320:PRO:HB3	2.03	0.58
4:D:313:ALA:HB2	4:D:331:LEU:HG	1.84	0.58
5:E:46:ASN:C	12:L:88:PHE:CD1	2.72	0.58
5:E:145:LEU:CD2	5:E:494:LEU:HG	2.33	0.58
12:L:55:LEU:HD23	12:L:55:LEU:O	2.04	0.58
15:O:52:ASP:H	15:O:53:PRO:HD3	1.69	0.58
1:A:755:HIS:HE1	1:A:869:TYR:HB3	1.69	0.58
1:A:807:GLU:O	1:A:811:LYS:HG3	2.04	0.58
1:A:906:LEU:HB3	1:A:998:VAL:HG13	1.85	0.58
1:A:1429:ILE:HG22	1:A:1490:PHE:CE1	2.37	0.58
2:B:59:THR:CA	2:B:82:ASP:O	2.51	0.58
2:B:3109:LYS:HG2	2:B:3113:GLU:OE2	2.03	0.58
2:B:3210:SER:HB3	2:B:3363:ALA:CB	2.33	0.58
2:B:3253:ILE:HG21	2:B:3273:ASP:HB3	1.84	0.58
4:D:556:THR:HB	4:D:571:LEU:HG	1.84	0.58
5:E:253:MET:HB2	5:E:296:PHE:HE2	1.67	0.58
8:H:65:PHE:HB3	9:I:80:GLY:HA3	1.83	0.58
10:J:38:GLU:OE1	15:O:29:PHE:CZ	2.49	0.58
13:M:77:ILE:HG22	13:M:80:LEU:HB3	1.86	0.58
14:N:25:PHE:CZ	14:N:103:ILE:CD1	2.70	0.58
1:A:1459:LEU:O	1:A:1552:MET:CE	2.52	0.58
2:B:500:GLU:CD	2:B:532:THR:CG2	2.72	0.58
2:B:544:HIS:HE1	2:B:609:LEU:HD12	0.51	0.58
2:B:762:ILE:O	2:B:766:ILE:CB	2.52	0.58
2:B:1464:THR:HG22	2:B:1557:LYS:HB2	1.86	0.58
2:B:3239:VAL:HG11	2:B:3291:ILE:HD11	1.86	0.58
3:C:217:PHE:CE2	3:C:268:ILE:HD12	2.39	0.58
4:D:177:ASN:CG	13:M:60:ASN:CG	2.62	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:265:ARG:HB2	5:E:125:GLN:HG2	1.84	0.58
4:D:288:ARG:HE	4:D:610:GLY:HA3	1.69	0.58
1:A:97:ARG:O	1:A:121:GLY:CA	2.51	0.58
1:A:473:LEU:CB	1:A:481:MET:CB	2.82	0.58
1:A:611:ARG:HH22	1:A:705:GLN:HB2	1.69	0.58
1:A:1118:LEU:HD22	1:A:1118:LEU:N	2.17	0.58
1:A:1121:LYS:CD	1:A:1138:THR:CG2	2.76	0.58
2:B:625:LEU:HD23	2:B:625:LEU:C	2.23	0.58
2:B:1772:ILE:HG23	2:B:2044:GLY:HA2	1.85	0.58
2:B:2545:THR:N	19:B:5501:ADP:O1A	2.36	0.58
2:B:3267:ILE:HG23	2:B:3271:ASP:HB2	1.84	0.58
3:C:9:GLN:HB2	3:C:350:TRP:CE2	2.38	0.58
3:C:533:GLU:CB	3:C:545:GLU:CB	2.82	0.58
3:C:2213:ARG:HH21	19:C:4702:ADP:PB	2.26	0.58
12:L:70:GLY:O	12:L:109:LYS:HE2	2.03	0.58
1:A:867:MET:SD	1:A:878:VAL:CG1	2.86	0.58
1:A:1418:ASP:CG	1:A:3604:LYS:HZ2	1.98	0.58
1:A:1505:ASN:C	1:A:1509:ASP:OD2	2.42	0.58
1:A:3446:ASN:CG	1:A:3488:LEU:HD22	2.24	0.58
2:B:736:LEU:HD12	2:B:859:TYR:HB3	1.80	0.58
2:B:1474:MET:HE2	2:B:1515:VAL:HG11	1.52	0.58
2:B:2569:SER:HA	2:B:2610:PRO:HA	1.85	0.58
2:B:2800:ILE:HD12	2:B:2814:ILE:HD11	1.85	0.58
2:B:3268:THR:HG22	2:B:3269:LEU:N	2.15	0.58
2:B:3422:LEU:HD23	2:B:3707:LEU:HD23	1.84	0.58
3:C:540:LYS:CB	3:C:705:LYS:N	2.67	0.58
3:C:2745:LYS:CD	3:C:2749:VAL:CG1	2.81	0.58
5:E:375:ARG:HA	5:E:383:PHE:HA	1.85	0.58
1:A:588:GLN:OE1	1:A:588:GLN:HA	2.04	0.57
1:A:678:HIS:HB2	1:A:681:ASN:HB2	1.85	0.57
1:A:1429:ILE:HG21	1:A:1490:PHE:CZ	2.31	0.57
1:A:3251:ILE:CD1	17:Q:62:ILE:N	2.66	0.57
2:B:575:ASN:CB	5:E:481:GLN:NE2	2.67	0.57
2:B:1447:ILE:CG1	2:B:1480:HIS:ND1	2.67	0.57
2:B:1608:ARG:HB3	2:B:1637:CYS:HB3	1.85	0.57
3:C:60:LEU:HD22	3:C:69:TRP:CH2	2.33	0.57
3:C:1296:ILE:HD11	3:C:1542:MET:SD	2.44	0.57
3:C:2593:ARG:CD	3:C:2921:LEU:HD11	2.34	0.57
4:D:208:TYR:O	4:D:212:ILE:HG13	2.04	0.57
4:D:297:LYS:HZ3	4:D:328:LEU:HD13	1.68	0.57
5:E:14:PHE:CE2	15:O:22:LEU:O	2.56	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:66:ASP:HB3	7:G:102:SER:CB	2.34	0.57
8:H:69:VAL:HG11	8:H:89:PHE:CZ	2.39	0.57
1:A:801:ILE:HD13	1:A:862:LEU:HD23	1.84	0.57
1:A:1422:SER:CA	1:A:1486:HIS:NE2	2.66	0.57
2:B:2512:VAL:H	19:B:5501:ADP:HN62	1.52	0.57
3:C:53:PRO:HD2	3:C:81:PRO:CB	2.34	0.57
4:D:517:ILE:CD1	4:D:550:TRP:HZ2	2.17	0.57
4:D:529:ASP:HB2	4:D:536:ILE:HD11	1.86	0.57
5:E:30:ILE:HD12	5:E:30:ILE:C	2.24	0.57
5:E:141:VAL:HG13	5:E:141:VAL:O	2.05	0.57
6:F:50:ALA:CB	8:H:83:GLN:CB	2.82	0.57
8:H:35:CYS:HB2	8:H:41:ILE:HG12	1.86	0.57
1:A:594:PRO:CB	1:A:609:TRP:CE3	2.86	0.57
1:A:1013:VAL:CG1	1:A:1076:LEU:HD11	2.33	0.57
1:A:1433:LEU:CD1	1:A:1490:PHE:HD1	2.10	0.57
1:A:3126:GLU:HA	1:A:3126:GLU:OE1	2.03	0.57
1:A:3241:LEU:HD11	1:A:3273:TYR:CD2	2.39	0.57
1:A:3273:TYR:CD1	1:A:3273:TYR:O	2.56	0.57
1:A:3317:PHE:CD1	1:A:3333:LEU:HD22	2.25	0.57
2:B:349:ASN:CB	2:B:416:LEU:HG	2.34	0.57
2:B:500:GLU:CD	2:B:532:THR:HG21	2.24	0.57
2:B:718:ILE:CD1	2:B:773:VAL:HG11	2.33	0.57
2:B:954:ASP:OD2	3:C:222:PHE:O	2.22	0.57
2:B:1003:ILE:HG22	2:B:1003:ILE:O	2.03	0.57
2:B:1051:ASP:CG	2:B:1162:THR:CG2	2.62	0.57
3:C:248:ILE:HG22	3:C:273:VAL:HB	1.86	0.57
3:C:261:ILE:N	3:C:262:PRO:HD2	2.20	0.57
3:C:2794:ASN:C	3:C:2796:PRO:CD	2.72	0.57
4:D:110:SER:CA	15:O:96:ARG:HG3	2.35	0.57
4:D:171:ARG:C	13:M:64:HIS:HB2	2.24	0.57
4:D:254:GLN:OE1	5:E:128:LEU:HD11	2.04	0.57
4:D:294:GLN:HG3	4:D:297:LYS:HZ1	1.68	0.57
5:E:408:HIS:HD2	5:E:412:LEU:HD11	1.67	0.57
16:P:55:ILE:O	16:P:60:PHE:N	2.37	0.57
1:A:669:ALA:HB1	1:A:689:ASP:CB	2.35	0.57
2:B:1956:ASN:HD21	2:B:2011:ARG:HG3	1.70	0.57
2:B:3241:GLU:O	2:B:3245:LEU:HG	2.05	0.57
2:B:3453:LEU:CD2	2:B:3492:ILE:HD12	2.35	0.57
3:C:10:LEU:HD13	3:C:10:LEU:C	2.24	0.57
3:C:1864:ILE:HD11	3:C:1910:ILE:HG23	1.85	0.57
3:C:2082:LEU:HG	3:C:2137:VAL:HG21	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:265:ARG:CB	5:E:125:GLN:CG	2.82	0.57
4:D:401:GLN:HB3	4:D:417:ILE:HG22	1.85	0.57
1:A:594:PRO:HG2	1:A:606:LYS:HG2	1.85	0.57
1:A:1100:LEU:CD2	1:A:1163:LEU:HB2	2.33	0.57
1:A:1163:LEU:HD21	1:A:1167:LEU:HD12	1.85	0.57
1:A:3241:LEU:HD11	1:A:3273:TYR:CE2	2.40	0.57
1:A:3313:SER:HA	1:A:3317:PHE:CD2	2.34	0.57
2:B:439:LEU:HD11	2:B:503:LEU:HD21	1.87	0.57
2:B:448:LYS:HE3	2:B:452:LEU:HD11	1.86	0.57
2:B:1143:VAL:O	2:B:1147:ILE:HG13	2.04	0.57
2:B:1538:ILE:HD11	2:B:1621:LEU:HB3	1.86	0.57
2:B:3300:GLU:CD	2:B:3354:LYS:HZ2	2.01	0.57
3:C:192:PRO:HG2	3:C:232:TYR:CE2	2.39	0.57
3:C:2556:VAL:HG21	3:C:2937:TYR:CD2	2.39	0.57
3:C:2676:GLN:CB	3:C:2837:LEU:HA	2.35	0.57
4:D:79:ASN:H	4:D:104:GLN:HG2	1.69	0.57
4:D:111:MET:SD	15:O:90:ILE:HG22	2.44	0.57
5:E:19:ASN:O	5:E:19:ASN:OD1	2.22	0.57
7:G:118:ASP:OD1	9:I:12:ILE:HD11	2.03	0.57
12:L:99:LEU:N	12:L:100:PRO:HD2	2.19	0.57
1:A:1031:ILE:CG2	1:A:1031:ILE:O	2.52	0.57
1:A:3212:VAL:HG21	1:A:3339:ILE:CG1	2.33	0.57
2:B:3147:GLN:HA	2:B:3426:LEU:CD1	2.34	0.57
3:C:2726:THR:N	3:C:2729:LEU:CD1	2.66	0.57
3:C:3072:ILE:HD12	3:C:3102:LEU:HD11	1.86	0.57
4:D:80:PRO:CD	15:O:103:TRP:HZ2	2.16	0.57
5:E:20:PHE:HE2	15:O:80:LYS:CG	2.07	0.57
14:N:72:ILE:CG1	15:O:97:ILE:HG23	2.29	0.57
17:Q:68:LEU:CA	17:Q:92:ASP:CB	2.79	0.57
18:R:27:GLY:O	18:R:28:LEU:CB	2.52	0.57
1:A:3222:GLU:HB2	1:A:3328:ALA:CB	2.35	0.57
2:B:433:ILE:CA	2:B:463:PHE:HZ	2.15	0.57
2:B:1455:VAL:CG1	2:B:1456:PHE:H	2.18	0.57
2:B:1458:PHE:CB	2:B:1465:LYS:HB3	2.30	0.57
3:C:2365:GLY:CA	19:C:4703:ADP:H5'2	2.35	0.57
3:C:2585:PHE:HE1	3:C:2929:LEU:CB	2.17	0.57
4:D:75:LEU:HD23	4:D:75:LEU:N	2.05	0.57
4:D:90:ASP:OD2	13:M:32:LYS:CE	2.52	0.57
6:F:14:LEU:HD22	6:F:23:TYR:CB	2.30	0.57
7:G:119:PRO:CG	9:I:12:ILE:HD12	2.33	0.57
1:A:690:LEU:CD1	1:A:690:LEU:H	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:651:SER:OG	2:B:680:LEU:CD2	2.52	0.57
2:B:883:ASN:CA	2:B:886:ILE:CG2	2.71	0.57
2:B:1002:GLN:CA	2:B:1094:TRP:CZ2	2.81	0.57
2:B:1466:THR:HA	2:B:1560:MET:HE2	1.86	0.57
2:B:2560:VAL:HG13	2:B:2601:ILE:HD13	1.85	0.57
2:B:3297:PHE:CZ	2:B:3302:ILE:HD13	2.40	0.57
3:C:85:HIS:CD2	3:C:85:HIS:N	2.73	0.57
3:C:2721:GLU:CA	3:C:2798:PHE:CE1	2.87	0.57
3:C:2792:TYR:C	3:C:2796:PRO:CG	2.53	0.57
4:D:285:PRO:HB3	4:D:584:ILE:HG22	1.85	0.57
8:H:50:ARG:NH2	9:I:88:THR:HG21	2.19	0.57
9:I:55:ASN:HB2	9:I:58:ALA:HB3	1.86	0.57
10:J:77:HIS:CB	11:K:70:VAL:HG23	2.35	0.57
15:O:103:TRP:HB2	15:O:108:ASP:OD1	2.04	0.57
1:A:739:ARG:HH11	1:A:743:LYS:HZ1	1.53	0.57
1:A:755:HIS:HE1	1:A:869:TYR:CG	2.20	0.57
1:A:933:VAL:CG1	1:A:944:LEU:HB3	2.35	0.57
1:A:1534:MET:HB3	1:A:1537:GLN:HG3	1.87	0.57
1:A:1806:PHE:CD1	1:A:4194:VAL:HG22	2.40	0.57
1:A:3106:LYS:HG2	1:A:3443:LEU:HD21	1.56	0.57
1:A:3215:ILE:HD13	1:A:3219:ASP:OD2	2.04	0.57
1:A:3691:LEU:HB3	1:A:3719:THR:HG22	1.86	0.57
1:A:4126:TRP:CZ2	1:A:4130:ILE:HD11	2.39	0.57
1:A:4240:VAL:HG11	1:A:4270:PRO:HG2	1.86	0.57
2:B:523:LEU:HD23	2:B:523:LEU:O	2.05	0.57
2:B:913:PHE:CE2	2:B:1078:ILE:HD11	2.39	0.57
2:B:1468:ALA:C	2:B:1469:SER:HG	1.97	0.57
2:B:1528:LEU:HD21	2:B:1591:CYS:HB3	1.81	0.57
2:B:1610:TYR:CD2	2:B:1942:GLY:HA3	2.39	0.57
2:B:2189:GLY:HA2	20:B:5601:ATP:H5'1	1.86	0.57
2:B:3063:PHE:CZ	2:B:3112:LEU:HD11	2.40	0.57
3:C:163:GLY:CA	3:C:174:PHE:HD2	2.18	0.57
3:C:760:THR:HA	3:C:827:ILE:HD11	1.87	0.57
3:C:2720:PRO:C	3:C:2798:PHE:CE2	2.78	0.57
3:C:2794:ASN:C	3:C:2796:PRO:HD3	2.25	0.57
4:D:88:VAL:HG21	13:M:33:GLN:NE2	2.20	0.57
4:D:588:PRO:HG2	4:D:606:ASP:CG	2.25	0.57
5:E:16:ASN:CA	15:O:132:GLU:CG	2.74	0.57
5:E:24:GLU:OE2	14:N:91:THR:CB	2.53	0.57
1:A:402:PRO:O	1:A:468:GLN:HA	2.04	0.57
1:A:600:MET:HE1	1:A:697:ARG:NH1	1.97	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1013:VAL:O	1:A:1017:LEU:HG	2.04	0.57
1:A:2697:ARG:HG2	19:A:4701:ADP:H4'	1.86	0.57
1:A:3442:LYS:CG	1:A:3485:THR:HG22	2.35	0.57
2:B:713:VAL:HG11	5:E:258:GLU:HA	1.86	0.57
2:B:814:TYR:O	2:B:818:LEU:HB2	2.05	0.57
2:B:1454:GLN:OE1	2:B:1477:LEU:HD21	2.05	0.57
2:B:3082:MET:SD	2:B:3115:ILE:CD1	2.93	0.57
2:B:3257:ARG:CZ	2:B:3273:ASP:OD1	2.53	0.57
2:B:3268:THR:CG2	2:B:3269:LEU:HD12	2.33	0.57
3:C:360:PRO:CG	3:C:361:PRO:CD	2.83	0.57
4:D:189:PRO:HD3	11:K:65:HIS:HB2	1.87	0.57
4:D:212:ILE:CD1	9:I:15:LEU:HD22	2.33	0.57
4:D:528:TRP:NE1	4:D:535:GLN:CA	2.68	0.57
4:D:573:VAL:HG21	4:D:579:LEU:HD21	1.86	0.57
4:D:585:VAL:HG11	4:D:588:PRO:HG3	1.85	0.57
4:D:640:LYS:HA	4:D:640:LYS:CE	2.34	0.57
5:E:16:ASN:CB	15:O:132:GLU:C	2.62	0.57
8:H:66:GLY:O	9:I:79:ILE:N	2.35	0.57
12:L:41:LEU:HD21	12:L:56:ASN:HB2	1.87	0.57
1:A:3222:GLU:OE1	1:A:3328:ALA:HB2	2.04	0.56
2:B:433:ILE:HA	2:B:463:PHE:CE1	2.40	0.56
2:B:747:GLU:O	2:B:750:PRO:HD2	2.05	0.56
2:B:997:TRP:CE3	2:B:997:TRP:HA	2.40	0.56
3:C:1142:VAL:HG21	3:C:1167:ILE:HD13	1.87	0.56
3:C:1907:ILE:HD11	3:C:1930:TRP:CZ2	2.39	0.56
3:C:2365:GLY:O	19:C:4703:ADP:C5'	2.52	0.56
3:C:2722:VAL:HG12	3:C:2813:ILE:HD13	1.88	0.56
3:C:2739:GLU:H	3:C:2746:PRO:CB	2.13	0.56
5:E:61:VAL:HG11	10:J:95:PHE:HZ	1.63	0.56
6:F:84:SER:HB2	6:F:102:LEU:HB3	1.87	0.56
10:J:43:GLU:HG2	10:J:67:TYR:CD2	2.40	0.56
12:L:84:CYS:CB	13:M:56:ILE:HA	2.34	0.56
15:O:25:ILE:CG2	15:O:27:ASN:HB2	2.34	0.56
1:A:617:ILE:HB	1:A:644:LEU:HD21	1.87	0.56
1:A:847:PHE:CZ	1:A:851:LYS:CE	2.88	0.56
1:A:1028:LYS:C	1:A:1088:TRP:CH2	2.72	0.56
1:A:2839:LEU:HA	19:A:4901:ADP:H2	1.68	0.56
1:A:3255:GLU:OE1	1:A:3270:LYS:CA	2.53	0.56
1:A:3421:SER:CB	1:A:3716:LEU:CD2	2.83	0.56
2:B:1100:ASP:HA	2:B:1103:VAL:CG2	2.35	0.56
2:B:1456:PHE:CE2	2:B:1569:VAL:HG12	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3109:LYS:O	2:B:3113:GLU:HG3	2.05	0.56
3:C:146:ARG:HA	3:C:165:GLY:HA3	1.87	0.56
3:C:2361:VAL:HG11	3:C:3113:PRO:HG2	1.87	0.56
4:D:181:ARG:O	11:K:71:SER:HA	2.06	0.56
4:D:247:ILE:HD13	5:E:129:LEU:CD2	2.35	0.56
5:E:286:GLY:HA2	5:E:318:GLY:HA2	1.86	0.56
1:A:604:ALA:CB	1:A:698:GLU:HG2	2.32	0.56
1:A:744:ILE:CD1	1:A:752:LEU:HD23	2.32	0.56
1:A:801:ILE:CG2	1:A:862:LEU:CG	2.75	0.56
1:A:853:VAL:HB	5:E:206:ASN:OD1	2.05	0.56
1:A:948:LEU:HG	1:A:1010:LYS:CG	2.31	0.56
1:A:997:LYS:CE	18:R:149:LEU:CA	2.27	0.56
1:A:1088:TRP:CZ2	1:A:1092:TRP:CZ2	2.92	0.56
1:A:1601:ARG:HD2	1:A:1630:LEU:O	2.05	0.56
1:A:2143:LEU:HD13	1:A:2155:LEU:HD13	1.88	0.56
1:A:3271:GLU:CD	1:A:3272:SER:N	2.59	0.56
2:B:422:ARG:HB2	2:B:422:ARG:CZ	2.35	0.56
2:B:969:LEU:HD23	2:B:969:LEU:C	2.25	0.56
2:B:1606:PHE:HE1	2:B:1687:LEU:HA	1.69	0.56
2:B:3269:LEU:H	2:B:3269:LEU:CD1	2.18	0.56
2:B:3446:SER:CB	2:B:3489:THR:HG22	2.30	0.56
3:C:113:ILE:HD13	3:C:185:PHE:HZ	1.69	0.56
3:C:196:PRO:HA	3:C:239:TRP:CH2	2.17	0.56
3:C:214:LEU:O	3:C:231:ILE:HA	2.05	0.56
3:C:2673:VAL:CB	3:C:2841:THR:CA	2.75	0.56
3:C:2734:PHE:HE2	3:C:2767:LYS:HE3	1.62	0.56
3:C:2737:ALA:O	3:C:2746:PRO:HG2	2.05	0.56
3:C:2807:SER:HG	3:C:2810:ALA:HB2	1.69	0.56
4:D:288:ARG:HH12	4:D:585:VAL:HG11	1.69	0.56
4:D:294:GLN:HB3	4:D:297:LYS:HE3	1.86	0.56
4:D:517:ILE:CD1	4:D:527:ILE:CB	2.83	0.56
4:D:576:LEU:HD13	4:D:576:LEU:O	2.05	0.56
4:D:603:LEU:HD22	4:D:611:VAL:HG12	1.87	0.56
5:E:70:ASP:OD1	8:H:70:THR:CB	2.52	0.56
5:E:174:PRO:HB3	5:E:463:ASN:HD22	1.70	0.56
5:E:361:LEU:HD13	5:E:361:LEU:C	2.25	0.56
13:M:82:LEU:C	13:M:82:LEU:HD23	2.26	0.56
17:Q:69:ASN:O	17:Q:70:MET:CB	2.53	0.56
1:A:607:ILE:HG12	1:A:654:TRP:CD1	2.41	0.56
2:B:721:ASN:CG	2:B:773:VAL:CG1	2.74	0.56
2:B:1467:PHE:CD2	2:B:1560:MET:CE	2.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1595:LEU:HD23	2:B:1595:LEU:C	2.26	0.56
2:B:3131:ARG:HD2	2:B:3131:ARG:C	2.25	0.56
3:C:214:LEU:O	3:C:214:LEU:HD22	2.05	0.56
3:C:2804:ALA:HB2	3:C:2811:LYS:HG3	1.86	0.56
4:D:532:TYR:CE1	4:D:652:MET:CE	2.88	0.56
5:E:80:TRP:HE3	5:E:81:PRO:CD	2.11	0.56
7:G:125:PHE:HZ	7:G:136:MET:HE3	1.67	0.56
10:J:89:VAL:HG23	11:K:47:LYS:HE3	1.87	0.56
14:N:89:GLN:HG3	14:N:94:ASP:HB2	1.83	0.56
16:P:57:ILE:O	16:P:62:LYS:CA	2.54	0.56
1:A:1274:GLY:N	4:D:166:PHE:HE1	1.92	0.56
1:A:1444:GLN:CB	1:A:1559:LYS:O	2.45	0.56
1:A:3229:PRO:HB3	1:A:3233:ILE:HD13	1.88	0.56
2:B:444:LEU:O	5:E:515:LYS:CG	2.53	0.56
2:B:585:ILE:HD11	2:B:647:GLU:OE1	2.05	0.56
2:B:1511:VAL:HG23	2:B:1570:VAL:CG1	2.33	0.56
2:B:2544:LYS:N	19:B:5501:ADP:PA	2.78	0.56
2:B:3242:MET:HG3	2:B:3336:LEU:HD11	1.88	0.56
2:B:3251:GLY:HA3	2:B:3329:GLN:CD	2.26	0.56
3:C:60:LEU:CD2	3:C:69:TRP:CE3	2.86	0.56
4:D:116:ILE:HD11	5:E:43:ARG:HH11	1.71	0.56
4:D:401:GLN:HG3	4:D:462:PHE:CE1	2.41	0.56
5:E:42:GLN:NE2	12:L:91:ASN:ND2	2.50	0.56
5:E:43:ARG:HB3	5:E:45:PRO:HD2	1.88	0.56
5:E:225:GLN:OE1	5:E:225:GLN:N	2.38	0.56
5:E:238:GLY:O	5:E:260:SER:OG	2.23	0.56
11:K:55:GLY:CA	13:M:79:GLU:HG3	2.33	0.56
14:N:75:GLN:CB	15:O:93:GLN:CG	2.53	0.56
1:A:614:PHE:HE1	1:A:644:LEU:HB3	1.62	0.56
1:A:1443:MET:CG	1:A:1561:VAL:HG21	2.21	0.56
1:A:3241:LEU:CD1	1:A:3273:TYR:CD2	2.88	0.56
1:A:3269:LEU:CD2	1:A:3312:GLN:OE1	2.50	0.56
1:A:4422:ASP:HB2	1:A:4423:PRO:HD2	1.87	0.56
2:B:606:LEU:HA	2:B:609:LEU:HD23	1.86	0.56
2:B:725:ILE:HD11	2:B:777:PHE:CA	2.07	0.56
2:B:1076:LEU:O	2:B:1076:LEU:HD23	2.05	0.56
2:B:2267:ILE:HG22	2:B:2271:TRP:HZ3	1.68	0.56
2:B:2409:LEU:HD21	2:B:2436:PHE:HA	1.88	0.56
2:B:3600:LYS:HD2	2:B:3605:LEU:HD22	1.88	0.56
3:C:52:ALA:HB1	3:C:53:PRO:CD	2.35	0.56
3:C:359:GLY:N	3:C:440:TYR:CB	2.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2597:GLU:OE1	3:C:2597:GLU:HA	2.06	0.56
8:H:60:ILE:HG23	9:I:85:TYR:HB3	1.87	0.56
1:A:686:VAL:HG23	1:A:734:LEU:HD12	1.88	0.56
1:A:3046:PHE:CG	1:A:3100:LYS:NZ	2.74	0.56
1:A:3306:LEU:CD1	1:A:3306:LEU:C	2.69	0.56
2:B:444:LEU:HA	5:E:515:LYS:CE	2.35	0.56
2:B:1474:MET:HE1	2:B:1515:VAL:HB	1.88	0.56
4:D:372:VAL:HG13	4:D:414:PHE:CZ	2.41	0.56
5:E:116:VAL:CG1	6:F:99:ALA:CB	2.84	0.56
8:H:10:VAL:HG11	8:H:80:TYR:OH	2.05	0.56
10:J:26:VAL:HG23	10:J:98:PHE:N	2.20	0.56
13:M:80:LEU:C	13:M:80:LEU:HD23	2.26	0.56
1:A:878:VAL:HG22	1:A:879:LEU:N	2.20	0.56
1:A:1126:VAL:CG1	1:A:1131:SER:C	2.62	0.56
1:A:1430:ARG:HG2	1:A:1490:PHE:CG	2.41	0.56
1:A:1446:GLN:O	1:A:1461:GLY:HA2	2.06	0.56
1:A:3140:GLU:O	1:A:3144:GLN:HG3	2.06	0.56
2:B:4:HIS:O	2:B:7:LYS:N	2.39	0.56
2:B:810:SER:HB2	2:B:813:ASP:CG	2.26	0.56
2:B:1458:PHE:CZ	2:B:1560:MET:O	2.59	0.56
2:B:2334:TYR:HA	20:B:5601:ATP:C2	2.38	0.56
2:B:3164:VAL:CG1	2:B:3409:ALA:CB	2.75	0.56
2:B:3243:LYS:HD2	2:B:3285:ASN:O	2.05	0.56
4:D:199:ILE:HG12	9:I:104:ALA:CB	2.36	0.56
5:E:48:ILE:CB	12:L:88:PHE:HE2	2.17	0.56
5:E:112:LEU:HD23	5:E:116:VAL:HG23	1.87	0.56
5:E:214:SER:HB3	5:E:243:TRP:HZ2	1.71	0.56
5:E:515:LYS:O	5:E:515:LYS:HD3	2.05	0.56
12:L:84:CYS:SG	13:M:56:ILE:HG12	2.46	0.56
1:A:3046:PHE:CE2	1:A:3104:ILE:CD1	2.89	0.56
1:A:3223:LEU:CD1	1:A:3332:ILE:HG12	2.19	0.56
1:A:3236:ILE:CA	1:A:3333:LEU:HD23	2.35	0.56
1:A:3257:VAL:HG13	1:A:3267:LEU:H	1.70	0.56
2:B:655:LYS:HB2	2:B:677:LEU:CD2	2.34	0.56
2:B:3118:TYR:CD2	2:B:3455:SER:CB	2.87	0.56
3:C:60:LEU:HD23	3:C:69:TRP:CE3	2.41	0.56
3:C:2673:VAL:CA	3:C:2841:THR:CG2	2.78	0.56
4:D:386:TYR:HB3	4:D:433:LEU:HD11	1.88	0.56
9:I:30:MET:HB3	9:I:35:LEU:HD21	1.88	0.56
1:A:3128:THR:HG22	1:A:3422:LEU:HD13	1.88	0.56
1:A:3251:ILE:CG1	17:Q:82:ASN:CA	2.56	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:514:TYR:HE2	2:B:523:LEU:HD12	1.71	0.56
2:B:555:LEU:HG	2:B:629:ILE:HD12	1.88	0.56
2:B:1176:VAL:O	2:B:1179:THR:OG1	2.17	0.56
2:B:1437:GLU:CG	2:B:1493:TYR:CB	2.77	0.56
2:B:3114:LEU:CD2	2:B:3460:TYR:CE2	2.89	0.56
3:C:227:SER:HB3	3:C:250:LYS:H	1.71	0.56
3:C:2184:ILE:HD11	3:C:2237:ILE:HD13	1.88	0.56
4:D:174:GLN:HE22	12:L:49:LEU:C	2.09	0.56
4:D:248:MET:HE2	7:G:147:VAL:HG21	1.88	0.56
4:D:543:MET:HE2	4:D:563:MET:CE	2.35	0.56
4:D:564:ASP:OD2	4:D:583:LYS:HE2	2.05	0.56
9:I:19:MET:HB3	9:I:22:LYS:HE3	1.88	0.56
1:A:683:LYS:HE2	1:A:738:GLU:HG2	1.87	0.55
1:A:937:LEU:CD1	1:A:1081:ILE:CD1	2.84	0.55
1:A:2330:TYR:O	1:A:2336:PHE:HB2	2.06	0.55
2:B:428:HIS:O	2:B:432:THR:HG23	2.05	0.55
2:B:585:ILE:HG21	2:B:644:TRP:HB2	1.87	0.55
2:B:736:LEU:CD1	2:B:859:TYR:HB3	2.35	0.55
2:B:1243:LYS:CB	2:B:1251:SER:N	2.69	0.55
4:D:283:LEU:HB3	4:D:614:VAL:HG11	1.88	0.55
4:D:529:ASP:CG	4:D:532:TYR:HD2	2.09	0.55
10:J:86:CYS:SG	11:K:61:VAL:HA	2.46	0.55
14:N:75:GLN:HG2	15:O:94:GLY:H	1.70	0.55
1:A:717:LEU:O	1:A:717:LEU:HD23	2.07	0.55
1:A:871:LEU:HD22	1:A:872:ASP:O	2.07	0.55
1:A:1135:VAL:HG12	1:A:1136:MET:HE3	1.87	0.55
1:A:3121:LEU:HD21	1:A:3429:TRP:HB3	0.57	0.55
1:A:3273:TYR:CD1	1:A:3276:SER:HB3	2.41	0.55
2:B:489:PHE:HE1	2:B:493:ARG:HD3	1.69	0.55
2:B:1107:ARG:HE	2:B:1172:LYS:NZ	2.04	0.55
2:B:1172:LYS:HD2	2:B:1176:VAL:HG23	1.87	0.55
2:B:2971:ILE:HG23	2:B:2974:LEU:HB2	1.89	0.55
2:B:3147:GLN:HA	2:B:3426:LEU:HD13	1.87	0.55
2:B:4243:ASN:HB2	2:B:4244:PRO:HD2	1.88	0.55
3:C:25:THR:OG1	3:C:87:SER:HB3	2.05	0.55
3:C:113:ILE:CD1	3:C:185:PHE:CE1	2.89	0.55
3:C:230:MET:SD	3:C:241:ASP:CG	2.84	0.55
3:C:2848:THR:O	3:C:2852:ASN:CG	2.45	0.55
5:E:26:ARG:O	14:N:85:ILE:CG2	2.53	0.55
5:E:59:HIS:HB2	10:J:90:HIS:NE2	2.22	0.55
5:E:143:GLU:OE1	5:E:493:SER:HB3	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:471:ASN:H	5:E:474:LYS:HE2	1.71	0.55
7:G:71:LYS:HG3	7:G:72:THR:HG23	1.87	0.55
16:P:16:GLU:CB	16:P:74:LEU:CA	2.82	0.55
1:A:3131:ILE:HG12	1:A:3422:LEU:HD12	1.88	0.55
1:A:3237:MET:SD	1:A:3332:ILE:HG21	2.46	0.55
2:B:904:LEU:HB2	2:B:1078:ILE:HG23	1.89	0.55
2:B:1139:LEU:HD23	2:B:1198:ILE:CG1	2.36	0.55
2:B:3122:LEU:HD11	2:B:3448:ILE:HG12	1.88	0.55
2:B:3139:GLY:CA	2:B:3695:LEU:CD2	2.84	0.55
3:C:2581:LEU:HD13	3:C:2937:TYR:OH	2.07	0.55
4:D:195:ILE:CD1	9:I:94:LEU:HD23	2.35	0.55
4:D:417:ILE:CD1	4:D:474:VAL:CG2	2.83	0.55
5:E:384:LEU:HD12	5:E:384:LEU:C	2.27	0.55
10:J:26:VAL:CG2	10:J:98:PHE:CB	2.72	0.55
10:J:79:PHE:CD2	11:K:68:ALA:HB2	2.41	0.55
14:N:23:GLN:OE1	14:N:23:GLN:HA	2.05	0.55
1:A:666:SER:CB	1:A:695:LEU:CD1	2.84	0.55
1:A:1637:VAL:HG11	1:A:1653:ILE:HG21	1.88	0.55
1:A:3298:ILE:HG22	1:A:3300:GLU:HG3	1.88	0.55
2:B:801:ILE:HG12	2:B:937:PHE:CD1	2.34	0.55
2:B:1474:MET:CE	2:B:1515:VAL:CB	2.83	0.55
3:C:2007:LEU:HD11	3:C:2128:MET:HE3	1.89	0.55
3:C:2738:ILE:HG22	3:C:2746:PRO:CG	2.34	0.55
3:C:2760:SER:HB2	3:C:2763:GLU:HG2	1.89	0.55
4:D:171:ARG:O	13:M:64:HIS:HA	2.05	0.55
4:D:240:SER:CB	7:G:140:ASP:OD2	2.55	0.55
1:A:594:PRO:O	1:A:596:LEU:CD1	2.54	0.55
1:A:1634:ILE:HD13	1:A:1656:ILE:HG22	1.87	0.55
2:B:87:LYS:N	2:B:104:VAL:O	2.39	0.55
2:B:411:ALA:HA	2:B:414:VAL:CG2	2.36	0.55
2:B:718:ILE:CD1	2:B:770:LYS:HA	2.35	0.55
2:B:1119:LYS:HA	2:B:1122:ASP:OD2	2.07	0.55
2:B:2411:ALA:HB3	2:B:2526:ILE:HG23	1.89	0.55
2:B:2531:ARG:HA	2:B:2649:LEU:HD21	1.88	0.55
2:B:2543:GLY:CA	19:B:5501:ADP:PA	2.92	0.55
2:B:3321:PHE:CD2	2:B:3321:PHE:O	2.60	0.55
3:C:217:PHE:HE2	3:C:268:ILE:HD12	1.71	0.55
3:C:1728:LEU:HD12	3:C:1728:LEU:O	2.06	0.55
3:C:2814:CYS:O	3:C:2818:VAL:HG23	2.07	0.55
4:D:111:MET:HB3	15:O:95:LEU:N	2.05	0.55
4:D:401:GLN:O	4:D:417:ILE:HG22	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:56:LEU:HD23	10:J:91:ASN:CA	2.35	0.55
9:I:24:ILE:CG2	9:I:98:PHE:O	2.55	0.55
10:J:79:PHE:CD2	11:K:68:ALA:HB3	2.40	0.55
18:R:82:ALA:C	18:R:83:ASN:CB	2.73	0.55
1:A:403:ALA:HA	1:A:468:GLN:HA	1.88	0.55
1:A:802:ILE:HA	1:A:806:ILE:CG2	2.37	0.55
1:A:818:LEU:C	1:A:840:TYR:HE2	2.10	0.55
1:A:1051:GLN:NE2	1:A:1096:TYR:CE2	2.74	0.55
1:A:1133:GLY:HA3	1:A:1268:ARG:CA	2.36	0.55
1:A:1263:TYR:HD2	1:A:1283:LEU:CB	2.18	0.55
1:A:2220:ASN:HD22	1:A:2220:ASN:N	2.04	0.55
1:A:3236:ILE:HA	1:A:3333:LEU:HD23	1.87	0.55
2:B:433:ILE:CB	2:B:463:PHE:CZ	2.88	0.55
2:B:436:PHE:HB2	2:B:463:PHE:CE2	2.41	0.55
2:B:658:GLN:HG2	2:B:672:ASN:O	2.04	0.55
2:B:946:ARG:NH2	2:B:958:GLU:OE2	2.40	0.55
2:B:984:ASN:O	2:B:987:ARG:HG2	2.07	0.55
2:B:1458:PHE:HD1	2:B:1560:MET:CE	2.19	0.55
3:C:2670:LYS:HB3	3:C:2848:THR:HG21	1.87	0.55
5:E:81:PRO:C	8:H:12:LYS:HZ1	2.10	0.55
5:E:180:SER:HB3	5:E:221:ILE:HG12	1.88	0.55
10:J:61:ALA:HB1	10:J:80:PHE:CE2	2.34	0.55
13:M:17:ILE:HG13	13:M:73:ILE:HD11	1.89	0.55
15:O:76:VAL:HG12	15:O:81:ILE:HD11	1.88	0.55
1:A:1100:LEU:CD2	1:A:1159:MET:HE3	2.28	0.55
1:A:1126:VAL:HG11	1:A:1201:TYR:CE1	2.42	0.55
1:A:2839:LEU:CD1	19:A:4901:ADP:C4	2.90	0.55
1:A:3231:ASP:OD2	1:A:3258:PHE:CG	2.52	0.55
1:A:3442:LYS:CG	1:A:3485:THR:CG2	2.84	0.55
2:B:718:ILE:CD1	2:B:773:VAL:CG1	2.84	0.55
2:B:798:ASN:HB2	2:B:874:ALA:HB1	1.78	0.55
2:B:1456:PHE:CG	2:B:1467:PHE:CE1	2.87	0.55
2:B:3242:MET:HA	2:B:3245:LEU:CD1	2.36	0.55
3:C:2585:PHE:HA	3:C:2932:SER:HB3	1.88	0.55
4:D:91:TYR:HB2	13:M:28:VAL:HG13	1.88	0.55
4:D:172:GLU:CA	13:M:64:HIS:HA	2.22	0.55
4:D:417:ILE:HG23	4:D:417:ILE:O	2.07	0.55
5:E:384:LEU:HD23	5:E:417:TRP:CD2	2.40	0.55
5:E:492:ASP:CA	5:E:495:TYR:CZ	2.80	0.55
7:G:119:PRO:HG2	9:I:12:ILE:CD1	2.37	0.55
8:H:45:ILE:HD13	8:H:86:ILE:HG23	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:59:CYS:O	9:I:85:TYR:HA	2.06	0.55
10:J:29:PRO:HB3	15:O:106:GLN:NE2	2.22	0.55
11:K:5:ALA:HB2	11:K:81:TYR:HB2	1.89	0.55
1:A:909:MET:CE	1:A:955:ILE:CD1	2.70	0.55
1:A:1450:TRP:CH2	1:A:1519:THR:HG23	2.41	0.55
2:B:409:SER:C	2:B:413:PHE:H	2.09	0.55
2:B:641:ILE:HG12	2:B:645:GLU:OE2	2.06	0.55
2:B:963:PHE:CD2	3:C:103:THR:CA	2.89	0.55
2:B:3132:GLN:HA	2:B:3132:GLN:OE1	2.05	0.55
3:C:2723:PHE:HZ	3:C:2745:LYS:HE3	1.72	0.55
4:D:174:GLN:NE2	12:L:51:LYS:N	2.43	0.55
4:D:248:MET:HG3	7:G:145:LEU:HD22	1.88	0.55
4:D:617:SER:OG	4:D:618:PRO:CD	2.52	0.55
5:E:58:GLU:HA	10:J:89:VAL:HA	1.88	0.55
15:O:31:PRO:CB	15:O:109:ASN:HD21	2.20	0.55
1:A:15:THR:N	2:B:19:SER:O	2.40	0.55
1:A:1190:LEU:HD23	1:A:1190:LEU:O	2.07	0.55
2:B:2066:LEU:HD22	2:B:2118:ASP:HB3	1.88	0.55
3:C:127:GLN:OE1	3:C:127:GLN:HA	2.07	0.55
3:C:164:HIS:HD2	3:C:201:GLY:HA3	1.71	0.55
3:C:2698:LEU:HD21	3:C:2768:LEU:CB	2.35	0.55
4:D:79:ASN:HD22	4:D:80:PRO:HD2	1.70	0.55
10:J:52:GLU:H	10:J:52:GLU:CD	2.06	0.55
12:L:58:VAL:HB	13:M:64:HIS:HE1	1.71	0.55
2:B:260:LEU:HA	2:B:264:LYS:N	2.22	0.55
2:B:532:THR:HG23	2:B:535:ILE:HB	1.88	0.55
2:B:1474:MET:HE1	2:B:1515:VAL:CB	2.37	0.55
2:B:3268:THR:HG22	2:B:3269:LEU:HD13	1.87	0.55
3:C:24:HIS:HE1	3:C:339:GLY:O	1.90	0.55
3:C:25:THR:HG22	3:C:85:HIS:CE1	2.42	0.55
4:D:207:ALA:CA	9:I:24:ILE:CD1	2.75	0.55
5:E:116:VAL:CG1	6:F:99:ALA:HB2	2.37	0.55
8:H:65:PHE:CA	9:I:80:GLY:HA2	2.13	0.55
12:L:70:GLY:O	12:L:109:LYS:NZ	2.40	0.55
12:L:72:GLY:O	12:L:109:LYS:HE3	2.07	0.55
1:A:948:LEU:HB3	1:A:1010:LYS:HD3	1.88	0.54
1:A:1597:LYS:NZ	1:A:1962:ILE:HD12	2.21	0.54
1:A:3251:ILE:HG13	17:Q:82:ASN:CB	2.35	0.54
2:B:997:TRP:HA	2:B:997:TRP:HE3	1.71	0.54
2:B:3203:ALA:CB	2:B:3370:LYS:CB	2.84	0.54
3:C:10:LEU:HD21	3:C:66:ASN:CA	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:143:PRO:CG	3:C:187:TRP:CE2	2.85	0.54
3:C:2585:PHE:CE1	3:C:2929:LEU:CB	2.90	0.54
4:D:180:ILE:CG2	10:J:75:TYR:CE1	2.88	0.54
10:J:48:LEU:HD13	10:J:100:ILE:HD12	1.85	0.54
1:A:97:ARG:O	1:A:122:GLU:N	2.40	0.54
1:A:1048:TYR:CE1	1:A:1100:LEU:HB2	2.41	0.54
1:A:1525:PHE:CD1	1:A:1541:PHE:CD2	2.96	0.54
1:A:3251:ILE:HD12	17:Q:83:VAL:N	2.19	0.54
2:B:228:LEU:CB	2:B:291:TYR:O	2.55	0.54
2:B:530:LEU:HD12	2:B:530:LEU:O	2.07	0.54
2:B:583:PRO:HG2	2:B:683:GLU:HA	1.88	0.54
2:B:3239:VAL:HB	2:B:3284:MET:CE	2.37	0.54
2:B:3399:GLU:O	2:B:3403:MET:HG2	2.07	0.54
3:C:2701:ILE:HD12	3:C:2704:LYS:HG3	1.89	0.54
4:D:208:TYR:N	9:I:24:ILE:CD1	2.66	0.54
5:E:310:LEU:HD12	5:E:358:ARG:NH1	2.21	0.54
5:E:392:LYS:HD2	5:E:394:TRP:CZ2	2.42	0.54
5:E:425:PHE:HE2	5:E:427:LEU:HD11	1.72	0.54
9:I:85:TYR:CZ	9:I:106:LEU:HD22	2.41	0.54
12:L:69:ILE:HG22	12:L:69:ILE:O	2.07	0.54
15:O:52:ASP:N	15:O:53:PRO:HD3	2.22	0.54
15:O:105:VAL:HG12	15:O:106:GLN:HG3	1.87	0.54
1:A:714:ARG:O	1:A:718:LEU:HG	2.07	0.54
1:A:853:VAL:HG21	5:E:206:ASN:ND2	2.23	0.54
1:A:909:MET:HE1	1:A:955:ILE:CD1	2.29	0.54
2:B:3445:LYS:HG3	2:B:3487:PRO:CB	2.37	0.54
3:C:24:HIS:CD2	3:C:325:SER:CB	2.89	0.54
3:C:972:LEU:HD11	3:C:1017:MET:HE3	1.90	0.54
3:C:2723:PHE:HZ	3:C:2749:VAL:HG11	1.64	0.54
3:C:2743:ASN:CG	3:C:2789:LYS:HG3	2.28	0.54
9:I:96:PHE:HE1	9:I:98:PHE:CD2	2.26	0.54
11:K:46:ILE:HD11	11:K:87:ILE:HD13	1.87	0.54
15:O:24:TYR:HD1	15:O:26:LYS:HE2	1.73	0.54
1:A:847:PHE:CZ	1:A:851:LYS:HE3	2.42	0.54
1:A:1016:PHE:CE2	1:A:1076:LEU:CB	2.89	0.54
1:A:1136:MET:CE	1:A:1136:MET:CA	2.85	0.54
1:A:1511:TRP:CB	1:A:1574:LEU:HD11	2.38	0.54
2:B:609:LEU:N	2:B:609:LEU:HD22	2.22	0.54
3:C:2581:LEU:CG	3:C:2936:SER:CB	2.86	0.54
3:C:2669:ILE:HG21	3:C:2843:GLN:O	2.07	0.54
3:C:2711:SER:CA	3:C:2751:TRP:CZ2	2.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2743:ASN:HD21	3:C:2786:ASN:N	2.04	0.54
5:E:59:HIS:CE1	10:J:31:GLU:OE1	2.60	0.54
5:E:117:GLU:CB	6:F:17:LEU:CD1	2.80	0.54
6:F:26:PHE:CD1	6:F:49:ALA:HA	2.42	0.54
1:A:616:LYS:O	1:A:620:PRO:HD3	2.05	0.54
1:A:675:ILE:HA	1:A:687:ASN:HB2	1.89	0.54
1:A:869:TYR:O	1:A:871:LEU:HD12	2.08	0.54
1:A:1016:PHE:CE2	1:A:1069:TYR:HB2	2.42	0.54
1:A:1027:CYS:O	1:A:1088:TRP:HZ3	1.89	0.54
1:A:1263:TYR:HE2	1:A:1280:TYR:CA	2.21	0.54
1:A:3260:LYS:HZ2	1:A:3315:ASP:HB3	1.70	0.54
1:A:3317:PHE:CD1	1:A:3333:LEU:CD2	2.88	0.54
2:B:459:ILE:HD11	2:B:502:ARG:HB3	1.90	0.54
2:B:467:VAL:CA	2:B:471:THR:HG1	2.21	0.54
2:B:674:ASP:OD1	2:B:675:PRO:CD	2.55	0.54
2:B:984:ASN:HA	2:B:987:ARG:CD	2.37	0.54
2:B:1455:VAL:HG12	2:B:1456:PHE:H	1.72	0.54
2:B:2544:LYS:CA	19:B:5501:ADP:O1A	2.53	0.54
4:D:509:ASN:HD22	4:D:644:ILE:HD13	1.73	0.54
4:D:536:ILE:HG22	4:D:537:ILE:HG13	1.88	0.54
10:J:82:LYS:HG3	11:K:65:HIS:NE2	2.23	0.54
1:A:818:LEU:CD1	1:A:818:LEU:N	2.67	0.54
1:A:1088:TRP:CZ2	1:A:1092:TRP:HZ2	2.25	0.54
1:A:2498:ALA:HA	19:A:4701:ADP:O2A	2.07	0.54
1:A:3220:ILE:HG23	1:A:3286:PHE:CE2	2.43	0.54
2:B:900:PHE:HZ	2:B:933:TRP:CZ2	2.26	0.54
2:B:1058:LYS:HB2	2:B:1166:GLU:HG2	1.89	0.54
2:B:1511:VAL:C	2:B:1570:VAL:HG22	2.27	0.54
2:B:1539:ARG:HA	2:B:1546:THR:HG21	1.90	0.54
2:B:3220:ALA:HB3	2:B:3353:VAL:HG23	1.89	0.54
3:C:352:LEU:HD22	3:C:352:LEU:C	2.28	0.54
3:C:2711:SER:C	3:C:2751:TRP:HZ2	2.11	0.54
5:E:110:LYS:HG2	6:F:10:GLN:CG	2.38	0.54
6:F:55:LEU:HB2	7:G:113:VAL:HG21	1.89	0.54
6:F:73:ASP:OD1	7:G:131:LYS:HB2	2.08	0.54
8:H:29:LYS:HB2	8:H:29:LYS:HZ2	1.73	0.54
8:H:67:SER:HB3	9:I:78:ILE:HG22	1.84	0.54
2:B:17:ARG:N	2:B:17:ARG:CB	2.61	0.54
2:B:904:LEU:HD23	2:B:1080:LEU:HG	1.89	0.54
3:C:229:ILE:HD11	3:C:301:TRP:HE1	1.72	0.54
3:C:2706:PHE:HD1	3:C:2761:PRO:HG3	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2800:PRO:HG3	3:C:2818:VAL:CG2	2.37	0.54
4:D:265:ARG:HD3	5:E:125:GLN:HA	1.88	0.54
4:D:517:ILE:CG1	4:D:550:TRP:HZ2	2.14	0.54
16:P:15:SER:C	16:P:16:GLU:C	2.66	0.54
1:A:801:ILE:HD12	1:A:862:LEU:CD2	2.34	0.54
1:A:868:LEU:N	1:A:868:LEU:CD1	2.70	0.54
1:A:989:ILE:HG23	1:A:995:ILE:HG21	1.90	0.54
1:A:1396:PRO:HA	1:A:1400:TYR:CA	2.37	0.54
2:B:886:ILE:HD11	2:B:976:LEU:CD2	2.37	0.54
2:B:1467:PHE:CE1	2:B:1569:VAL:CG1	2.90	0.54
2:B:3243:LYS:CE	2:B:3285:ASN:O	2.56	0.54
3:C:95:MET:HE2	3:C:116:THR:HG22	1.90	0.54
4:D:174:GLN:HE22	12:L:49:LEU:HB3	1.72	0.54
4:D:260:LYS:CB	4:D:287:TRP:CZ2	2.91	0.54
4:D:351:MET:CE	4:D:351:MET:CA	2.85	0.54
5:E:50:LEU:HD21	12:L:23:PHE:HB3	1.87	0.54
5:E:50:LEU:HD22	12:L:23:PHE:HB2	1.90	0.54
5:E:77:GLU:OE1	5:E:86:PRO:HB2	2.08	0.54
5:E:80:TRP:CE3	5:E:81:PRO:CD	2.89	0.54
1:A:937:LEU:CD1	1:A:1081:ILE:CG1	2.84	0.54
1:A:997:LYS:NZ	18:R:149:LEU:C	2.53	0.54
1:A:1048:TYR:HE1	1:A:1100:LEU:CB	2.20	0.54
1:A:1440:TRP:HH2	1:A:1471:LEU:HG	1.73	0.54
2:B:436:PHE:CD2	2:B:463:PHE:CG	2.96	0.54
2:B:969:LEU:CD2	3:C:343:ASN:HA	2.38	0.54
2:B:1521:VAL:HG22	2:B:1585:SER:HB3	1.90	0.54
2:B:1531:ILE:HD11	2:B:1618:LEU:HD22	1.89	0.54
2:B:3085:VAL:HG21	2:B:3456:ALA:HB1	1.89	0.54
2:B:3499:THR:HG21	2:B:3507:TRP:CH2	2.42	0.54
3:C:110:ASP:HB2	3:C:128:ILE:HG12	1.89	0.54
3:C:261:ILE:HG13	3:C:360:PRO:HB2	1.87	0.54
3:C:2701:ILE:HG13	3:C:2704:LYS:CB	2.37	0.54
4:D:89:TYR:CE2	11:K:56:PRO:CD	2.89	0.54
4:D:252:VAL:HA	7:G:149:GLN:NE2	2.23	0.54
5:E:26:ARG:NH2	5:E:26:ARG:HB2	2.23	0.54
5:E:153:PHE:HB3	5:E:200:TRP:CE2	2.43	0.54
5:E:203:LEU:HD23	5:E:203:LEU:O	2.08	0.54
5:E:308:GLU:OE2	5:E:361:LEU:CD2	2.56	0.54
7:G:119:PRO:CG	9:I:12:ILE:HD13	2.35	0.54
8:H:52:ARG:CA	18:R:63:ASN:CB	2.61	0.54
1:A:3121:LEU:CD2	1:A:3429:TRP:CG	2.81	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3230:LEU:N	1:A:3233:ILE:HG22	2.23	0.54
2:B:14:ILE:HA	2:B:23:GLY:N	2.22	0.54
2:B:412:LEU:HD13	2:B:412:LEU:O	2.08	0.54
2:B:1474:MET:SD	2:B:1515:VAL:HG21	2.48	0.54
3:C:34:ILE:CG2	3:C:57:VAL:CG1	2.86	0.54
3:C:972:LEU:HD13	3:C:1029:GLU:HG2	1.90	0.54
3:C:2739:GLU:N	3:C:2746:PRO:HB3	2.13	0.54
3:C:2780:VAL:HG12	3:C:2786:ASN:HD21	1.72	0.54
3:C:2927:ASP:OD2	3:C:2974:ILE:HD13	2.06	0.54
4:D:105:MET:HE3	14:N:48:GLN:CA	2.27	0.54
4:D:174:GLN:OE1	12:L:49:LEU:HB3	2.08	0.54
4:D:180:ILE:HG21	10:J:75:TYR:CZ	2.43	0.54
4:D:255:ASN:ND2	7:G:134:GLU:CD	2.57	0.54
12:L:17:PRO:HG2	12:L:35:ILE:HG22	1.90	0.54
12:L:98:LEU:HB2	12:L:101:SER:HB2	1.90	0.54
1:A:889:TYR:CE2	7:G:12:SER:CB	2.91	0.53
1:A:1048:TYR:CE1	1:A:1100:LEU:CB	2.92	0.53
1:A:2935:LEU:HD12	1:A:2938:ILE:HD11	1.89	0.53
1:A:3232:ILE:CD1	1:A:3316:TRP:CE3	2.76	0.53
2:B:508:THR:HG22	2:B:539:GLU:CD	2.28	0.53
2:B:956:LEU:HA	2:B:959:ILE:CG1	2.38	0.53
2:B:2846:LEU:HD11	2:B:2872:VAL:HG11	1.91	0.53
2:B:3878:ILE:HG12	2:B:3887:ALA:HB2	1.90	0.53
3:C:9:GLN:OE1	3:C:350:TRP:CZ2	2.61	0.53
3:C:53:PRO:CD	3:C:81:PRO:CB	2.85	0.53
3:C:1081:ILE:HD11	3:C:1117:GLN:CB	2.38	0.53
3:C:2217:ASN:HD22	3:C:2247:THR:HG23	1.72	0.53
3:C:2614:ALA:CB	3:C:2903:LEU:HD11	2.38	0.53
3:C:2708:GLN:CD	3:C:2813:ILE:HG13	2.28	0.53
3:C:3927:VAL:HG21	3:C:4031:ALA:HB2	1.90	0.53
4:D:92:TYR:CB	13:M:29:LYS:HB3	2.37	0.53
9:I:11:ASP:H	9:I:14:GLU:HB2	1.73	0.53
10:J:43:GLU:HG2	10:J:67:TYR:CE2	2.43	0.53
12:L:92:VAL:O	12:L:92:VAL:HG12	2.07	0.53
1:A:53:ILE:C	1:A:54:PHE:CA	2.77	0.53
1:A:306:LYS:O	1:A:310:ALA:CB	2.55	0.53
1:A:747:ILE:HD13	1:A:889:TYR:CD1	2.43	0.53
1:A:789:LYS:O	1:A:793:GLN:HG3	2.09	0.53
1:A:1060:GLU:O	1:A:1063:GLU:HB3	2.08	0.53
1:A:1130:ASP:HA	1:A:1265:ILE:O	2.08	0.53
2:B:725:ILE:HD12	2:B:780:VAL:CG2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:762:ILE:O	2:B:766:ILE:HB	2.07	0.53
2:B:790:ILE:HD13	2:B:863:VAL:HG13	1.90	0.53
2:B:3239:VAL:HG11	2:B:3291:ILE:CD1	2.38	0.53
2:B:3454:ALA:CB	2:B:3497:ILE:HG21	2.37	0.53
2:B:4311:SER:HA	2:B:4391:ILE:HG21	1.90	0.53
3:C:2013:GLY:C	19:C:4702:ADP:O2A	2.46	0.53
3:C:2709:ALA:CB	3:C:2758:MET:SD	2.96	0.53
3:C:3064:ILE:HG13	3:C:3115:ILE:HD12	1.90	0.53
4:D:91:TYR:CE2	13:M:80:LEU:CD1	2.90	0.53
4:D:536:ILE:HD13	4:D:648:GLU:HG3	1.89	0.53
8:H:28:ALA:CB	8:H:86:ILE:HD12	2.33	0.53
10:J:44:THR:HG22	10:J:64:LEU:HD22	1.89	0.53
10:J:97:TYR:HB2	10:J:106:LEU:CD1	2.38	0.53
15:O:22:LEU:HD11	15:O:23:ASN:ND2	2.23	0.53
1:A:861:ASP:OD2	5:E:152:LEU:CD1	2.55	0.53
1:A:906:LEU:CD1	1:A:998:VAL:CB	2.59	0.53
1:A:935:VAL:CG1	1:A:1017:LEU:HD22	2.38	0.53
1:A:1597:LYS:HZ1	1:A:1962:ILE:CD1	2.19	0.53
1:A:3251:ILE:CD1	17:Q:82:ASN:C	2.77	0.53
1:A:3345:LYS:CA	1:A:3345:LYS:CE	2.85	0.53
2:B:467:VAL:CG1	2:B:471:THR:HG1	2.16	0.53
2:B:721:ASN:ND2	2:B:773:VAL:HG12	2.24	0.53
2:B:2190:LYS:HE2	20:B:5601:ATP:PB	2.49	0.53
2:B:2863:VAL:HG23	19:B:5602:ADP:N1	2.23	0.53
3:C:106:LEU:HD23	3:C:133:PRO:HB2	1.90	0.53
3:C:1559:LEU:CD2	3:C:1607:LEU:HD21	2.38	0.53
3:C:2804:ALA:HB1	3:C:2811:LYS:HD2	1.90	0.53
4:D:537:ILE:HD11	4:D:647:TYR:CE2	2.42	0.53
5:E:59:HIS:CD2	10:J:31:GLU:OE1	2.61	0.53
5:E:162:ARG:HA	5:E:183:ILE:HD11	1.90	0.53
10:J:19:LYS:CE	15:O:19:LEU:HD11	2.38	0.53
12:L:58:VAL:HG21	13:M:64:HIS:CE1	2.44	0.53
14:N:68:CYS:HA	15:O:101:CYS:HA	1.90	0.53
1:A:752:LEU:HD21	1:A:795:ILE:HG12	1.90	0.53
1:A:1624:GLN:HA	1:A:1627:PHE:CD2	2.44	0.53
1:A:3533:PRO:HD3	1:A:3648:THR:HG22	1.89	0.53
1:A:3914:ASN:O	1:A:3950:ARG:NH1	2.41	0.53
2:B:225:PRO:CA	2:B:298:LEU:CB	2.86	0.53
3:C:881:ILE:O	3:C:881:ILE:HG22	2.09	0.53
3:C:2719:VAL:HG12	3:C:2720:PRO:HD3	1.85	0.53
3:C:4082:TRP:CZ2	3:C:4091:GLY:HA3	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:537:ILE:CD1	4:D:647:TYR:OH	2.56	0.53
5:E:146:SER:H	5:E:491:CYS:HB2	1.73	0.53
5:E:286:GLY:HA3	5:E:316:ILE:HG22	1.91	0.53
14:N:103:ILE:O	14:N:103:ILE:HG22	2.08	0.53
15:O:45:ARG:HB2	15:O:63:LEU:HD11	1.90	0.53
1:A:1031:ILE:HG22	1:A:1034:SER:HG	1.73	0.53
1:A:1513:LYS:CE	1:A:1578:ASN:OD1	2.42	0.53
1:A:3117:PHE:CD2	1:A:3429:TRP:HE3	2.27	0.53
1:A:3293:PHE:HE1	1:A:3335:TRP:HZ2	1.47	0.53
2:B:911:ILE:HD12	2:B:991:ASP:OD2	2.08	0.53
2:B:1099:THR:O	2:B:1163:ARG:NH1	2.42	0.53
2:B:1237:ARG:HD3	2:B:1260:ALA:N	2.22	0.53
3:C:2055:ILE:HG22	3:C:2059:LEU:CD1	2.39	0.53
4:D:199:ILE:HG21	9:I:104:ALA:HB3	1.82	0.53
8:H:69:VAL:HG23	8:H:71:PHE:HD2	1.73	0.53
11:K:25:ALA:HB1	11:K:80:PHE:HE2	1.74	0.53
13:M:21:LYS:HB3	13:M:21:LYS:NZ	2.23	0.53
14:N:82:SER:OG	15:O:57:ASN:OD1	2.26	0.53
14:N:85:ILE:HG21	14:N:98:ILE:HD11	1.50	0.53
1:A:1013:VAL:HG13	1:A:1016:PHE:HE1	1.73	0.53
1:A:1100:LEU:HD21	1:A:1159:MET:CE	2.32	0.53
1:A:2061:THR:HG22	1:A:2073:LEU:HD22	1.90	0.53
2:B:984:ASN:HA	2:B:987:ARG:HD3	1.90	0.53
2:B:1125:LYS:HG3	2:B:1200:ILE:CG2	2.38	0.53
2:B:1432:ASP:O	2:B:1436:LYS:HG3	2.09	0.53
2:B:3314:ILE:CG1	2:B:3321:PHE:CE2	2.68	0.53
3:C:10:LEU:HD23	3:C:65:ASN:CA	2.39	0.53
3:C:180:LEU:HD12	3:C:180:LEU:C	2.28	0.53
3:C:359:GLY:C	3:C:440:TYR:CB	2.77	0.53
3:C:2726:THR:CG2	3:C:2729:LEU:HD12	2.38	0.53
4:D:288:ARG:HB2	4:D:612:THR:HG22	1.91	0.53
4:D:573:VAL:O	4:D:574:ASP:OD1	2.27	0.53
5:E:113:LYS:HE2	6:F:13:GLN:HB2	1.91	0.53
5:E:342:ILE:HB	5:E:359:TYR:HB2	1.89	0.53
8:H:62:GLY:CA	9:I:82:GLY:O	2.56	0.53
8:H:76:TYR:CE1	8:H:87:LEU:HD13	2.42	0.53
15:O:64:VAL:HG22	15:O:85:VAL:HB	1.90	0.53
1:A:155:GLY:CA	2:B:168:ILE:N	2.54	0.53
1:A:892:TRP:CZ3	7:G:14:GLN:N	2.77	0.53
1:A:1034:SER:HB3	1:A:1092:TRP:HZ3	1.74	0.53
1:A:1176:GLU:OE1	1:A:1176:GLU:HA	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1205:GLN:HA	1:A:1208:TYR:HB2	1.90	0.53
2:B:736:LEU:CA	2:B:855:SER:HB2	2.30	0.53
3:C:53:PRO:HD2	3:C:81:PRO:HB3	1.89	0.53
3:C:702:PHE:O	3:C:706:LYS:CB	2.56	0.53
3:C:1060:LEU:HD21	3:C:1148:LEU:HD13	1.90	0.53
3:C:1880:VAL:HA	3:C:1883:ILE:HD12	1.90	0.53
4:D:172:GLU:HB3	13:M:64:HIS:HB3	0.55	0.53
5:E:57:SER:OG	10:J:90:HIS:CE1	2.62	0.53
6:F:50:ALA:HB1	8:H:83:GLN:CB	2.39	0.53
6:F:81:THR:C	7:G:124:VAL:CG2	2.77	0.53
8:H:68:PHE:CE2	9:I:61:LYS:HA	2.43	0.53
10:J:31:GLU:HB2	10:J:95:PHE:O	2.09	0.53
10:J:36:ILE:HG23	10:J:72:PHE:CE1	2.44	0.53
14:N:83:VAL:HG22	15:O:86:VAL:HG23	1.90	0.53
14:N:117:VAL:O	14:N:117:VAL:HG12	2.08	0.53
1:A:607:ILE:HG13	1:A:654:TRP:HE1	1.73	0.53
1:A:791:LEU:HG	1:A:795:ILE:CD1	2.38	0.53
1:A:1114:GLN:C	1:A:1118:LEU:HD23	2.29	0.53
1:A:3446:ASN:CG	1:A:3488:LEU:CD2	2.77	0.53
2:B:638:ASP:O	2:B:642:LEU:HB2	2.08	0.53
2:B:899:LEU:HD12	2:B:900:PHE:CA	2.38	0.53
2:B:1057:LEU:HD11	2:B:1098:TYR:CE2	2.43	0.53
2:B:4545:CYS:SG	2:B:4579:ILE:HD13	2.49	0.53
3:C:2725:ALA:CA	3:C:2728:TYR:CE2	2.85	0.53
4:D:201:GLN:NE2	9:I:102:ASN:CA	2.70	0.53
4:D:564:ASP:CB	4:D:583:LYS:HE2	2.39	0.53
5:E:50:LEU:HD21	12:L:23:PHE:HB2	1.86	0.53
5:E:259:ASN:ND2	5:E:298:ALA:O	2.41	0.53
5:E:378:GLN:OE1	5:E:378:GLN:HA	2.08	0.53
10:J:28:TRP:N	10:J:29:PRO:HD2	2.23	0.53
10:J:78:VAL:HG22	10:J:107:MET:HB3	1.89	0.53
1:A:745:LYS:HB3	1:A:746:PRO:HD2	1.90	0.53
1:A:2500:THR:OG1	21:A:5002:MG:MG	1.37	0.53
1:A:2877:THR:HG21	1:A:2923:LEU:HD13	1.91	0.53
2:B:559:GLN:HB2	2:B:629:ILE:HD11	1.91	0.53
2:B:1001:GLU:O	2:B:1094:TRP:CZ2	2.62	0.53
2:B:1069:THR:CB	2:B:1070:PRO:HD2	2.33	0.53
2:B:1559:MET:HE2	2:B:1577:ARG:HH21	1.65	0.53
3:C:289:ASP:OD2	3:C:317:LYS:HB2	2.09	0.53
3:C:2772:LYS:HD3	3:C:2772:LYS:O	2.08	0.53
4:D:180:ILE:HG21	10:J:75:TYR:HE1	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:569:TYR:CE1	4:D:578:LYS:HG2	2.28	0.53
5:E:273:SER:O	5:E:273:SER:OG	2.23	0.53
5:E:440:TYR:CD1	5:E:501:GLU:HG2	2.44	0.53
12:L:92:VAL:HG11	12:L:109:LYS:HB2	1.91	0.53
1:A:948:LEU:HB2	1:A:1010:LYS:CD	2.39	0.53
1:A:1013:VAL:HG13	1:A:1076:LEU:CD2	2.38	0.53
1:A:1273:PHE:HA	4:D:166:PHE:HZ	0.71	0.53
2:B:58:SER:O	2:B:68:SER:O	0.58	0.53
2:B:3810:GLN:O	2:B:3814:ARG:HD3	2.09	0.53
3:C:2903:LEU:HD23	3:C:2903:LEU:O	2.08	0.53
5:E:470:HIS:CE1	5:E:475:LEU:HD11	2.44	0.53
6:F:14:LEU:CD2	6:F:23:TYR:HD2	2.05	0.53
6:F:62:VAL:HG11	7:G:106:LEU:CD2	2.39	0.53
10:J:77:HIS:NE2	11:K:92:LYS:HG2	2.16	0.53
15:O:45:ARG:HG3	15:O:63:LEU:HD12	1.88	0.53
1:A:3257:VAL:HG13	1:A:3267:LEU:N	2.25	0.52
1:A:3318:ASN:HB3	1:A:3321:PHE:HD2	1.74	0.52
2:B:3243:LYS:HE3	2:B:3285:ASN:O	2.09	0.52
4:D:196:CYS:HA	9:I:85:TYR:O	2.09	0.52
4:D:459:GLY:HA2	4:D:476:THR:HA	1.91	0.52
5:E:35:VAL:O	14:N:78:HIS:CE1	2.60	0.52
5:E:48:ILE:HB	12:L:93:LEU:HD23	1.90	0.52
8:H:60:ILE:CA	9:I:85:TYR:HB3	2.38	0.52
13:M:53:TRP:HZ3	13:M:86:LYS:HD2	1.73	0.52
1:A:1012:LYS:NZ	1:A:1072:GLY:HA3	2.24	0.52
1:A:1016:PHE:CD2	1:A:1020:PHE:CE2	2.97	0.52
1:A:1041:ASN:HD21	1:A:1096:TYR:HE1	1.57	0.52
1:A:1428:LYS:O	1:A:1431:THR:OG1	2.24	0.52
1:A:3306:LEU:HD11	1:A:3310:LEU:CD2	2.39	0.52
1:A:3442:LYS:HD2	1:A:3485:THR:CG2	2.39	0.52
2:B:682:LYS:NZ	5:E:186:PHE:HE1	1.88	0.52
2:B:1117:ILE:HD13	2:B:1186:PRO:HB3	1.91	0.52
4:D:94:ARG:CZ	13:M:78:ASN:HD22	2.16	0.52
4:D:584:ILE:CG2	4:D:614:VAL:HG22	2.37	0.52
4:D:588:PRO:HB2	4:D:606:ASP:HB3	1.92	0.52
6:F:11:LEU:CB	6:F:23:TYR:CZ	2.93	0.52
1:A:1012:LYS:CE	1:A:1072:GLY:H	2.06	0.52
1:A:3212:VAL:HG13	1:A:3335:TRP:NE1	2.25	0.52
1:A:4505:THR:HG22	1:A:4558:VAL:HG12	1.91	0.52
2:B:518:TYR:CB	5:E:404:ARG:NH1	2.69	0.52
2:B:644:TRP:CZ3	2:B:695:PRO:HB3	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:791:HIS:NE2	2:B:866:ILE:CD1	2.71	0.52
2:B:2742:ARG:HG3	19:B:5501:ADP:O3'	2.08	0.52
2:B:3139:GLY:CA	2:B:3695:LEU:HD21	2.38	0.52
3:C:1556:PHE:CE1	3:C:1580:ILE:HG23	2.45	0.52
3:C:2902:ALA:CB	3:C:3193:LEU:HB3	2.39	0.52
4:D:240:SER:HB2	7:G:140:ASP:OD2	2.09	0.52
5:E:41:VAL:HG22	5:E:42:GLN:HG3	1.91	0.52
12:L:77:ILE:CD1	13:M:65:ILE:HD11	2.39	0.52
1:A:18:CYS:CB	2:B:17:ARG:CB	2.87	0.52
1:A:552:PHE:CB	1:A:568:ARG:HH12	2.22	0.52
1:A:614:PHE:CE1	1:A:644:LEU:CD2	2.83	0.52
1:A:1048:TYR:CE1	1:A:1100:LEU:HA	2.43	0.52
1:A:1620:PRO:HB2	1:A:1639:PHE:CZ	2.44	0.52
1:A:1868:GLY:O	1:A:1973:PHE:HA	2.10	0.52
1:A:3550:ILE:HG12	1:A:3554:CYS:HB2	1.90	0.52
2:B:500:GLU:HB3	2:B:535:ILE:HG21	1.90	0.52
2:B:508:THR:HG22	2:B:539:GLU:OE2	2.10	0.52
2:B:582:MET:SD	2:B:587:GLY:CA	2.94	0.52
2:B:642:LEU:CD1	2:B:646:LYS:HE3	2.40	0.52
2:B:887:ASN:HB3	2:B:975:ASN:ND2	2.25	0.52
2:B:2966:LEU:C	2:B:2966:LEU:HD12	2.30	0.52
2:B:3850:LEU:O	2:B:3931:ARG:NH2	2.42	0.52
2:B:4152:ASN:HD21	2:B:4553:ARG:CZ	2.22	0.52
3:C:215:MET:HB3	3:C:231:ILE:HG22	1.91	0.52
3:C:346:LEU:CD1	3:C:346:LEU:N	2.73	0.52
3:C:2725:ALA:C	3:C:2729:LEU:HG	2.29	0.52
3:C:2793:LEU:O	3:C:2796:PRO:O	2.27	0.52
3:C:2943:LYS:HB3	3:C:2994:VAL:HG11	1.92	0.52
4:D:207:ALA:C	9:I:24:ILE:HD11	2.22	0.52
4:D:291:ASN:HB3	4:D:294:GLN:HB2	1.92	0.52
4:D:379:ASN:HB3	4:D:381:HIS:CD2	2.44	0.52
4:D:405:ASN:ND2	4:D:406:PRO:CD	2.57	0.52
14:N:85:ILE:HG21	14:N:98:ILE:CG1	2.38	0.52
1:A:751:LEU:HD21	1:A:866:ILE:HD13	1.90	0.52
1:A:2143:LEU:HD23	1:A:2170:LEU:HD12	1.91	0.52
2:B:425:ASP:O	2:B:489:PHE:CE2	2.62	0.52
2:B:718:ILE:HD12	2:B:773:VAL:CG1	2.40	0.52
2:B:1087:LEU:O	2:B:1091:VAL:HG23	2.10	0.52
2:B:2960:ILE:HB	2:B:2961:PRO:HD3	1.90	0.52
3:C:10:LEU:HD11	3:C:67:CYS:CB	2.39	0.52
3:C:463:PRO:C	3:C:465:LEU:H	2.13	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1726:TYR:CE2	3:C:1728:LEU:HD21	2.44	0.52
3:C:2357:LEU:HB3	3:C:2512:ILE:HG22	1.92	0.52
3:C:2743:ASN:HB3	3:C:2789:LYS:HE3	1.91	0.52
3:C:2807:SER:OG	3:C:2810:ALA:HB3	2.09	0.52
4:D:70:MET:CE	5:E:13:GLU:CG	2.85	0.52
4:D:404:TRP:CZ3	4:D:412:TYR:HB3	2.44	0.52
6:F:26:PHE:HD1	6:F:49:ALA:HB2	1.67	0.52
8:H:66:GLY:CA	9:I:79:ILE:O	2.55	0.52
10:J:36:ILE:HG23	10:J:72:PHE:CE2	2.44	0.52
10:J:99:TYR:CE1	10:J:104:ALA:HB2	2.43	0.52
1:A:15:THR:HA	2:B:19:SER:CA	2.29	0.52
1:A:573:LEU:HD22	1:A:633:GLU:HG2	1.90	0.52
1:A:751:LEU:HD23	1:A:751:LEU:C	2.30	0.52
1:A:891:PHE:HD1	1:A:972:TRP:CD2	2.25	0.52
1:A:1069:TYR:HE1	1:A:1078:THR:HG21	1.65	0.52
2:B:725:ILE:HD12	2:B:780:VAL:HB	1.92	0.52
2:B:815:ASP:O	2:B:819:LYS:CG	2.53	0.52
2:B:902:ILE:HG23	2:B:915:PRO:HG3	1.90	0.52
2:B:1378:LEU:CB	2:B:1424:GLU:CG	2.85	0.52
2:B:1784:ARG:HG2	2:B:1788:ILE:HD12	1.92	0.52
3:C:25:THR:CG2	3:C:87:SER:HB2	2.36	0.52
3:C:2721:GLU:HG2	3:C:2814:CYS:SG	2.49	0.52
3:C:2726:THR:OG1	3:C:2729:LEU:HD12	2.10	0.52
3:C:2738:ILE:CG2	3:C:2746:PRO:CD	2.49	0.52
4:D:285:PRO:HA	4:D:614:VAL:HG22	1.92	0.52
4:D:331:LEU:N	4:D:331:LEU:CD1	2.73	0.52
4:D:528:TRP:NE1	4:D:535:GLN:N	2.56	0.52
4:D:585:VAL:HG11	4:D:588:PRO:CG	2.40	0.52
6:F:91:GLN:HG2	6:F:96:THR:HB	1.90	0.52
9:I:24:ILE:CD1	9:I:98:PHE:HE1	2.22	0.52
9:I:26:ASN:ND2	9:I:98:PHE:HE2	2.08	0.52
10:J:100:ILE:O	10:J:100:ILE:HG13	2.09	0.52
11:K:73:ASP:HB2	11:K:76:ASN:HD22	1.73	0.52
12:L:59:LYS:NZ	12:L:59:LYS:CB	2.73	0.52
12:L:76:CYS:HB2	12:L:107:LEU:CD1	2.34	0.52
12:L:77:ILE:HD11	13:M:65:ILE:CD1	2.39	0.52
1:A:737:TYR:CD1	1:A:759:LEU:HD21	2.43	0.52
1:A:746:PRO:HA	1:A:749:LYS:HG3	1.91	0.52
1:A:830:LEU:N	1:A:830:LEU:CD1	2.73	0.52
1:A:1100:LEU:HG	1:A:1159:MET:HE1	1.91	0.52
2:B:53:ILE:HA	2:B:88:GLY:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:879:LEU:HB3	2:B:968:CYS:SG	2.50	0.52
2:B:888:PRO:HA	2:B:891:ILE:HG21	1.90	0.52
2:B:1458:PHE:HZ	2:B:1563:VAL:C	2.07	0.52
3:C:132:GLU:OE2	3:C:133:PRO:CD	2.53	0.52
3:C:252:ASN:O	3:C:271:GLY:HA2	2.10	0.52
3:C:2012:SER:O	3:C:2014:CYS:N	2.43	0.52
3:C:2585:PHE:CE1	3:C:2929:LEU:HB2	2.45	0.52
3:C:2703:LYS:HD2	3:C:2703:LYS:H	1.75	0.52
3:C:2725:ALA:O	3:C:2729:LEU:CD2	2.57	0.52
3:C:3012:ILE:CD1	3:C:3121:LEU:HD11	2.40	0.52
4:D:109:PHE:HD1	15:O:114:THR:HG1	1.55	0.52
4:D:261:TYR:O	5:E:125:GLN:OE1	2.26	0.52
5:E:24:GLU:CG	14:N:91:THR:HG22	2.40	0.52
9:I:96:PHE:HE1	9:I:98:PHE:HD2	1.58	0.52
12:L:23:PHE:CE2	12:L:25:ASP:HB2	2.45	0.52
15:O:65:LEU:HD12	15:O:65:LEU:O	2.09	0.52
1:A:326:PRO:CA	1:A:376:ASN:CB	2.88	0.52
1:A:599:ASN:HB2	4:D:400:TRP:CZ2	2.45	0.52
1:A:604:ALA:CB	1:A:698:GLU:CD	2.79	0.52
1:A:1062:ILE:HG23	1:A:1082:CYS:SG	2.49	0.52
1:A:1126:VAL:CG1	1:A:1132:LEU:HA	2.39	0.52
1:A:1407:ALA:O	1:A:1416:ILE:HD13	2.10	0.52
1:A:3117:PHE:CE2	1:A:3429:TRP:HZ3	2.25	0.52
2:B:801:ILE:HD12	2:B:879:LEU:N	2.23	0.52
2:B:913:PHE:CE2	2:B:1078:ILE:HD13	2.34	0.52
3:C:43:LYS:HG2	3:C:51:ILE:HD12	1.91	0.52
4:D:294:GLN:HB3	4:D:297:LYS:CE	2.40	0.52
4:D:401:GLN:HB3	4:D:417:ILE:HG21	1.90	0.52
5:E:49:ASP:OD1	12:L:85:SER:HB2	2.09	0.52
5:E:121:TYR:OH	6:F:17:LEU:CD2	2.58	0.52
6:F:27:ASN:HB2	6:F:33:LEU:HD21	1.92	0.52
8:H:32:ILE:CD1	8:H:81:VAL:HG11	2.36	0.52
1:A:770:LEU:HD22	1:A:774:SER:OG	2.10	0.52
1:A:773:THR:HG22	1:A:773:THR:O	2.10	0.52
1:A:1126:VAL:HG13	1:A:1131:SER:OG	2.10	0.52
1:A:1443:MET:HG3	1:A:1561:VAL:CG2	2.40	0.52
1:A:2746:VAL:HG12	1:A:3026:TRP:CD2	2.44	0.52
1:A:3232:ILE:CB	1:A:3316:TRP:CE3	2.92	0.52
1:A:3251:ILE:CD1	17:Q:82:ASN:CA	2.87	0.52
1:A:3255:GLU:CD	1:A:3269:LEU:O	2.43	0.52
1:A:3345:LYS:HA	1:A:3345:LYS:CE	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3421:SER:CB	1:A:3716:LEU:HD21	2.40	0.52
2:B:57:ASN:O	2:B:84:PHE:N	2.41	0.52
2:B:902:ILE:O	2:B:1077:ARG:O	2.28	0.52
2:B:1102:LEU:HB3	2:B:1106:PHE:CD2	2.45	0.52
2:B:1511:VAL:CB	2:B:1570:VAL:HG11	2.40	0.52
2:B:1529:TYR:HA	2:B:1549:PHE:CE2	2.45	0.52
2:B:3231:VAL:CG1	2:B:3339:TRP:CD1	2.92	0.52
4:D:184:GLY:CA	11:K:69:TYR:CE1	2.93	0.52
4:D:297:LYS:NZ	4:D:328:LEU:HD13	2.25	0.52
4:D:593:LEU:HD12	4:D:593:LEU:O	2.10	0.52
5:E:46:ASN:C	12:L:88:PHE:CZ	2.84	0.52
6:F:35:ARG:NH2	6:F:41:SER:CB	2.71	0.52
9:I:11:ASP:HB2	9:I:14:GLU:HG2	1.91	0.52
1:A:804:ASN:HD22	5:E:148:LYS:CA	2.22	0.52
1:A:1631:PHE:HZ	1:A:1684:LEU:HD22	1.74	0.52
1:A:1789:VAL:HG21	1:A:2010:VAL:HG22	1.92	0.52
2:B:411:ALA:CA	2:B:414:VAL:HG23	2.39	0.52
2:B:1081:GLN:HA	2:B:1081:GLN:NE2	2.24	0.52
2:B:1106:PHE:CE1	2:B:1160:ILE:HD11	2.40	0.52
2:B:1139:LEU:HD23	2:B:1198:ILE:HG13	1.92	0.52
2:B:3242:MET:HA	2:B:3245:LEU:HG	1.92	0.52
3:C:113:ILE:HD11	3:C:124:PRO:HB3	1.91	0.52
3:C:336:ILE:HG22	3:C:349:LEU:HD11	1.92	0.52
3:C:2701:ILE:CG1	3:C:2704:LYS:CG	2.87	0.52
10:J:26:VAL:CG2	10:J:97:TYR:C	2.68	0.52
16:P:24:ASN:HA	16:P:96:GLY:HA3	1.91	0.52
16:P:82:PHE:C	16:P:84:ALA:H	2.10	0.52
1:A:37:ASN:O	1:A:41:LEU:N	2.43	0.51
1:A:688:PHE:CD2	1:A:772:TRP:CH2	2.99	0.51
1:A:768:VAL:O	1:A:768:VAL:HG12	2.09	0.51
2:B:580:LEU:HD22	2:B:580:LEU:N	2.24	0.51
2:B:1080:LEU:N	2:B:1080:LEU:CD1	2.73	0.51
2:B:1230:MET:CE	2:B:1267:TYR:CA	2.87	0.51
2:B:1498:TYR:O	2:B:1502:GLU:HG2	2.10	0.51
2:B:2023:ARG:NH2	2:B:4194:MET:SD	2.82	0.51
2:B:3118:TYR:CZ	2:B:3452:LEU:HD13	2.45	0.51
2:B:3288:GLN:NE2	2:B:3288:GLN:HA	2.24	0.51
3:C:2701:ILE:CG1	3:C:2704:LYS:CD	2.73	0.51
3:C:2701:ILE:HG12	3:C:2704:LYS:HD2	1.90	0.51
4:D:636:MET:HA	4:D:636:MET:CE	2.40	0.51
6:F:66:ASP:HB3	7:G:102:SER:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:37:LYS:HG2	11:K:37:LYS:O	2.10	0.51
16:P:57:ILE:O	16:P:62:LYS:N	2.43	0.51
1:A:669:ALA:HB1	1:A:689:ASP:CG	2.30	0.51
1:A:1013:VAL:CB	1:A:1076:LEU:HD11	2.40	0.51
1:A:1514:VAL:HG12	1:A:1548:TRP:CZ3	2.45	0.51
2:B:426:ILE:HG12	2:B:485:PHE:CZ	2.44	0.51
2:B:468:GLN:HA	2:B:471:THR:HB	1.91	0.51
2:B:3178:VAL:CB	2:B:3395:LEU:HD21	2.33	0.51
2:B:4370:ILE:HD13	2:B:4384:MET:HB3	1.91	0.51
3:C:106:LEU:HD12	3:C:106:LEU:H	1.75	0.51
4:D:180:ILE:CG2	10:J:75:TYR:HE1	2.23	0.51
4:D:537:ILE:HD11	4:D:651:LYS:HD2	1.92	0.51
5:E:394:TRP:CD1	5:E:400:THR:C	2.83	0.51
7:G:119:PRO:CG	9:I:12:ILE:CB	2.85	0.51
14:N:86:THR:HG1	15:O:83:VAL:HG13	1.71	0.51
1:A:730:LEU:HD23	1:A:781:LEU:CD2	2.40	0.51
1:A:804:ASN:HD22	5:E:148:LYS:HA	1.75	0.51
1:A:913:VAL:C	1:A:1073:ALA:HB2	2.30	0.51
1:A:3191:LYS:NZ	1:A:3191:LYS:CB	2.73	0.51
2:B:58:SER:CB	2:B:70:LYS:CB	2.88	0.51
2:B:798:ASN:CB	2:B:874:ALA:HA	2.39	0.51
2:B:1329:PRO:CB	2:B:1412:PHE:C	2.79	0.51
2:B:3078:ILE:CD1	2:B:3452:LEU:CD2	2.84	0.51
2:B:3303:GLU:OE1	2:B:3306:ILE:HD11	2.10	0.51
2:B:4103:LEU:HD12	2:B:4256:LEU:HD22	1.92	0.51
2:B:4440:MET:HB2	2:B:4443:ARG:HG2	1.92	0.51
3:C:180:LEU:O	3:C:180:LEU:CD1	2.49	0.51
4:D:97:LYS:CE	13:M:32:LYS:HE2	2.40	0.51
4:D:306:PRO:HG3	4:D:357:PRO:HA	1.91	0.51
4:D:397:ASP:CB	4:D:398:PRO:CD	2.85	0.51
5:E:80:TRP:O	8:H:80:TYR:OH	2.25	0.51
8:H:29:LYS:NZ	8:H:29:LYS:CB	2.73	0.51
9:I:75:TRP:CZ3	9:I:109:LYS:HB2	2.45	0.51
9:I:100:ASN:O	9:I:100:ASN:OD1	2.27	0.51
1:A:805:ARG:HD2	1:A:858:ALA:HB2	1.92	0.51
1:A:805:ARG:HH22	5:E:152:LEU:CD1	2.23	0.51
1:A:1274:GLY:H	4:D:166:PHE:HE1	1.53	0.51
1:A:1643:LYS:HE3	1:A:1675:LYS:NZ	2.25	0.51
2:B:744:MET:HE1	2:B:773:VAL:N	2.25	0.51
2:B:861:ASP:O	2:B:864:ASN:CG	2.48	0.51
2:B:3327:ALA:HA	2:B:3334:SER:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:58:PHE:CD2	3:C:71:GLN:HB3	2.45	0.51
3:C:190:LEU:CD2	3:C:232:TYR:OH	2.58	0.51
4:D:269:SER:HB2	4:D:618:PRO:CD	2.39	0.51
4:D:290:SER:HB3	4:D:610:GLY:HA2	1.92	0.51
4:D:421:GLY:CA	4:D:441:LEU:HD12	2.31	0.51
4:D:551:ALA:HB3	4:D:557:VAL:HB	1.93	0.51
5:E:56:LEU:HD23	10:J:91:ASN:HA	1.91	0.51
5:E:391:CYS:SG	5:E:427:LEU:HD13	2.49	0.51
5:E:433:TRP:CE2	5:E:451:LYS:HB2	2.45	0.51
9:I:24:ILE:HG23	9:I:98:PHE:O	2.10	0.51
10:J:79:PHE:HE2	11:K:88:LEU:HD23	1.72	0.51
1:A:326:PRO:HA	1:A:376:ASN:CB	2.40	0.51
1:A:1511:TRP:CB	1:A:1574:LEU:CD1	2.88	0.51
1:A:4046:CYS:SG	1:A:4074:ILE:HG23	2.49	0.51
2:B:10:PRO:C	2:B:25:GLN:N	2.63	0.51
2:B:524:LEU:HD23	2:B:524:LEU:O	2.10	0.51
3:C:2725:ALA:CA	3:C:2728:TYR:HE2	2.10	0.51
3:C:2743:ASN:HD21	3:C:2785:VAL:C	2.13	0.51
6:F:26:PHE:HD1	6:F:49:ALA:CB	2.20	0.51
13:M:21:LYS:NZ	13:M:21:LYS:CB	2.73	0.51
16:P:24:ASN:CA	16:P:96:GLY:CA	2.89	0.51
1:A:599:ASN:CB	4:D:400:TRP:CZ2	2.92	0.51
1:A:1041:ASN:HA	1:A:1047:ASN:ND2	2.22	0.51
1:A:1522:GLU:HA	1:A:1541:PHE:CZ	2.44	0.51
1:A:1524:VAL:HG22	1:A:1611:LEU:HD22	1.92	0.51
1:A:1637:VAL:CG1	1:A:1653:ILE:HG21	2.41	0.51
2:B:625:LEU:HD23	2:B:625:LEU:O	2.10	0.51
2:B:1205:PHE:CZ	2:B:1284:LEU:O	2.64	0.51
2:B:1492:LYS:NZ	2:B:3606:GLN:HB2	2.25	0.51
2:B:2240:VAL:HG21	2:B:2640:GLU:HG3	1.92	0.51
2:B:3303:GLU:OE1	2:B:3306:ILE:HD12	2.08	0.51
2:B:3422:LEU:HD12	2:B:3716:LEU:HD11	1.91	0.51
3:C:2581:LEU:HG	3:C:2936:SER:CB	2.41	0.51
3:C:2727:ILE:HD12	3:C:2745:LYS:CB	2.13	0.51
4:D:410:LYS:HE3	4:D:413:ASN:ND2	2.25	0.51
4:D:421:GLY:CA	4:D:441:LEU:CD1	2.89	0.51
6:F:48:ILE:CG1	6:F:98:LEU:CD2	2.85	0.51
12:L:69:ILE:HG21	12:L:92:VAL:HG22	1.92	0.51
15:O:91:LYS:HB2	15:O:91:LYS:HZ3	1.76	0.51
16:P:82:PHE:C	16:P:84:ALA:N	2.64	0.51
1:A:384:LYS:CB	1:A:408:VAL:CB	2.89	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:853:VAL:CB	5:E:206:ASN:OD1	2.56	0.51
1:A:2960:LEU:HA	1:A:2963:ILE:HD12	1.92	0.51
1:A:2963:ILE:HD13	1:A:2987:PHE:HB2	1.93	0.51
1:A:3212:VAL:HG13	1:A:3335:TRP:CE2	2.45	0.51
2:B:671:VAL:HG12	2:B:673:PHE:H	1.75	0.51
2:B:801:ILE:CG1	2:B:937:PHE:CD1	2.71	0.51
2:B:1456:PHE:CZ	2:B:1563:VAL:HG11	2.28	0.51
2:B:1562:GLU:O	2:B:1565:ALA:HB3	2.11	0.51
2:B:3082:MET:SD	2:B:3115:ILE:HD12	2.51	0.51
2:B:3133:ILE:O	2:B:3133:ILE:HD13	2.11	0.51
2:B:3457:PHE:O	2:B:3461:ILE:HB	2.11	0.51
3:C:10:LEU:HD11	3:C:67:CYS:N	2.25	0.51
3:C:34:ILE:HD12	3:C:95:MET:HE1	1.93	0.51
3:C:2723:PHE:CZ	3:C:2745:LYS:HE3	2.45	0.51
3:C:4017:LEU:HD21	3:C:4022:LEU:HD11	1.93	0.51
5:E:46:ASN:O	12:L:88:PHE:CZ	2.63	0.51
5:E:384:LEU:H	5:E:417:TRP:HE1	1.59	0.51
2:B:1117:ILE:HG12	2:B:1190:ILE:HD11	0.74	0.51
2:B:1584:TRP:HA	2:B:1584:TRP:HE3	1.74	0.51
2:B:3183:ALA:O	2:B:3187:GLU:HG3	2.11	0.51
3:C:180:LEU:HD23	3:C:187:TRP:CH2	2.41	0.51
3:C:499:THR:CB	3:C:698:GLU:CB	2.89	0.51
3:C:2592:LYS:HD3	3:C:2924:MET:HG3	1.93	0.51
3:C:2800:PRO:CB	3:C:2818:VAL:CG2	2.85	0.51
5:E:119:CYS:HB2	6:F:88:ILE:HD13	1.89	0.51
12:L:32:LYS:HE2	12:L:36:ARG:HH22	1.76	0.51
1:A:590:GLN:CB	1:A:609:TRP:HZ2	2.03	0.51
1:A:1263:TYR:HE2	1:A:1280:TYR:C	2.12	0.51
1:A:3446:ASN:HA	1:A:3488:LEU:HD22	1.92	0.51
2:B:648:VAL:HG22	2:B:680:LEU:CD1	2.40	0.51
2:B:1116:PHE:N	2:B:1119:LYS:HZ2	2.09	0.51
2:B:1125:LYS:HG3	2:B:1200:ILE:HG21	1.93	0.51
2:B:3272:PRO:HG2	2:B:3275:LYS:HG3	1.92	0.51
2:B:4148:PRO:HB3	2:B:4551:GLU:O	2.11	0.51
3:C:379:LYS:HA	3:C:418:CYS:O	2.11	0.51
4:D:588:PRO:HG2	4:D:606:ASP:OD2	2.11	0.51
7:G:125:PHE:CZ	7:G:136:MET:CE	2.94	0.51
10:J:86:CYS:SG	11:K:61:VAL:CB	2.98	0.51
15:O:102:LEU:C	15:O:102:LEU:HD13	2.31	0.51
1:A:1048:TYR:CD1	1:A:1100:LEU:HD12	2.39	0.51
1:A:1274:GLY:CA	4:D:164:ASN:OD1	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1430:ARG:HG3	1:A:1490:PHE:CD2	2.44	0.51
1:A:2746:VAL:HG12	1:A:3026:TRP:CE2	2.46	0.51
2:B:736:LEU:HD23	2:B:855:SER:OG	2.11	0.51
2:B:766:ILE:HG23	2:B:770:LYS:HE2	1.91	0.51
2:B:935:ASN:CB	3:C:283:THR:HG22	2.40	0.51
2:B:3147:GLN:CA	2:B:3426:LEU:HD13	2.40	0.51
2:B:3237:PRO:HG2	2:B:3238:HIS:HD2	1.76	0.51
3:C:53:PRO:CD	3:C:81:PRO:HB3	2.40	0.51
4:D:399:VAL:HA	4:D:418:SER:HA	1.93	0.51
4:D:410:LYS:HG3	4:D:413:ASN:HD21	1.76	0.51
4:D:569:TYR:CE2	4:D:578:LYS:HG3	2.40	0.51
5:E:282:THR:HG23	5:E:322:LEU:CD1	2.25	0.51
5:E:302:GLU:OE1	5:E:302:GLU:HA	2.11	0.51
10:J:28:TRP:CE3	10:J:28:TRP:HA	2.46	0.51
10:J:110:THR:HG22	10:J:110:THR:O	2.10	0.51
11:K:70:VAL:HG11	11:K:90:TYR:CZ	2.46	0.51
16:P:15:SER:CB	16:P:18:HIS:H	2.23	0.51
1:A:935:VAL:CG1	1:A:1017:LEU:CD2	2.89	0.50
1:A:935:VAL:HG13	1:A:944:LEU:CD2	2.41	0.50
1:A:1016:PHE:CD2	1:A:1069:TYR:HB2	2.46	0.50
1:A:1152:LYS:C	1:A:1155:PRO:HD2	2.31	0.50
1:A:1596:ARG:HH21	1:A:1610:LEU:CD2	2.23	0.50
1:A:1597:LYS:HZ2	1:A:1962:ILE:HD12	1.74	0.50
1:A:1638:THR:CG2	1:A:1655:GLN:HG2	2.42	0.50
1:A:2101:ILE:HG22	1:A:4498:LEU:HB2	1.92	0.50
1:A:2430:ASP:O	1:A:2443:CYS:SG	2.52	0.50
1:A:2490:LEU:HD11	1:A:2611:MET:HG2	1.91	0.50
1:A:3257:VAL:HG13	1:A:3266:VAL:CA	2.35	0.50
2:B:410:ASN:O	2:B:414:VAL:HG22	2.10	0.50
2:B:1566:ASN:OD1	3:C:2275:LYS:CD	2.59	0.50
2:B:1604:LYS:HA	2:B:1945:GLN:NE2	2.26	0.50
3:C:2663:ALA:HB2	3:C:2855:GLU:OE2	2.11	0.50
3:C:2726:THR:OG1	3:C:2729:LEU:CD1	2.59	0.50
3:C:2774:VAL:CG1	3:C:2780:VAL:HG22	2.40	0.50
4:D:107:VAL:HG11	15:O:96:ARG:NH2	2.26	0.50
4:D:281:GLY:HA3	4:D:580:ALA:HB2	1.92	0.50
4:D:292:GLU:HA	4:D:295:ARG:HG3	1.92	0.50
4:D:553:TYR:HE1	4:D:595:PHE:CE2	2.29	0.50
10:J:74:PRO:CD	12:L:102:ARG:CZ	2.77	0.50
1:A:801:ILE:HG22	1:A:862:LEU:HD21	1.78	0.50
1:A:935:VAL:HG11	1:A:1017:LEU:HD22	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2564:MET:N	1:A:2565:PRO:HD2	2.26	0.50
2:B:409:SER:HB2	2:B:413:PHE:HB2	1.93	0.50
2:B:440:GLU:HB2	2:B:460:PHE:CG	2.46	0.50
2:B:1514:VAL:HG12	2:B:1570:VAL:HG22	1.92	0.50
2:B:3139:GLY:HA3	2:B:3695:LEU:HD21	1.93	0.50
2:B:3446:SER:HB3	2:B:3489:THR:CG2	2.30	0.50
3:C:76:GLY:O	3:C:77:ASP:OD1	2.30	0.50
3:C:2800:PRO:HG3	3:C:2818:VAL:HG21	1.92	0.50
4:D:111:MET:SD	15:O:90:ILE:CG2	3.00	0.50
4:D:242:LYS:HG2	7:G:60:VAL:HG21	1.89	0.50
4:D:590:LEU:N	4:D:590:LEU:CD1	2.73	0.50
10:J:44:THR:HG22	10:J:64:LEU:CD2	2.41	0.50
11:K:77:PHE:CE1	11:K:88:LEU:CD1	2.82	0.50
1:A:573:LEU:CD2	1:A:633:GLU:HG2	2.42	0.50
1:A:607:ILE:CD1	1:A:655:PHE:HA	2.38	0.50
1:A:845:THR:O	1:A:849:THR:HG23	2.10	0.50
1:A:1517:LEU:HD13	1:A:1581:LEU:HB3	1.92	0.50
1:A:1631:PHE:CZ	1:A:1687:LEU:HD22	2.45	0.50
1:A:1787:ILE:HD13	1:A:1847:ILE:HD11	1.93	0.50
1:A:2840:VAL:CG1	1:A:3041:THR:HG21	2.42	0.50
2:B:762:ILE:O	2:B:766:ILE:CG1	2.60	0.50
2:B:1071:GLU:HG2	2:B:1079:ASN:HD22	1.75	0.50
2:B:3429:GLU:OE1	2:B:3429:GLU:HA	2.12	0.50
3:C:36:PHE:CZ	3:C:97:VAL:HG11	2.47	0.50
3:C:214:LEU:CD1	3:C:214:LEU:N	2.74	0.50
3:C:253:LEU:HD12	3:C:253:LEU:C	2.32	0.50
3:C:2584:LEU:HD21	3:C:2935:VAL:CG1	2.41	0.50
4:D:68:GLU:CD	5:E:12:LYS:HA	2.29	0.50
4:D:180:ILE:HB	10:J:75:TYR:HE1	1.75	0.50
4:D:294:GLN:HB3	4:D:316:LEU:HD23	1.94	0.50
4:D:299:VAL:HG11	4:D:302:ILE:HD11	1.94	0.50
4:D:518:SER:HG	4:D:528:TRP:HZ3	0.66	0.50
5:E:261:HIS:HB3	5:E:289:MET:CE	2.41	0.50
7:G:125:PHE:HZ	7:G:136:MET:CE	2.24	0.50
8:H:67:SER:HB2	9:I:78:ILE:HG21	1.89	0.50
12:L:73:GLU:HB3	13:M:66:ILE:CD1	2.23	0.50
12:L:84:CYS:HB3	13:M:56:ILE:HG12	1.87	0.50
15:O:31:PRO:CD	15:O:109:ASN:HD22	2.25	0.50
1:A:1433:LEU:CD2	1:A:1478:LEU:CD2	2.89	0.50
1:A:1513:LYS:CE	1:A:1578:ASN:CG	2.53	0.50
2:B:651:SER:CB	2:B:680:LEU:HD22	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1242:GLN:O	2:B:1251:SER:C	2.48	0.50
2:B:1458:PHE:HZ	2:B:1563:VAL:CG1	2.25	0.50
2:B:1468:ALA:O	2:B:1469:SER:CB	2.57	0.50
2:B:2189:GLY:HA2	20:B:5601:ATP:H5'2	1.93	0.50
2:B:3118:TYR:CZ	2:B:3452:LEU:HB2	2.46	0.50
2:B:3262:LEU:C	2:B:3297:PHE:CZ	2.81	0.50
3:C:2740:ILE:HG21	3:C:2744:LYS:HB2	0.54	0.50
4:D:367:LEU:HD12	4:D:367:LEU:C	2.32	0.50
4:D:386:TYR:CB	4:D:433:LEU:HD11	2.42	0.50
4:D:584:ILE:HD11	4:D:604:VAL:HG11	1.94	0.50
5:E:253:MET:CB	5:E:296:PHE:HE2	2.24	0.50
1:A:24:LYS:HA	1:A:96:LEU:O	2.12	0.50
1:A:819:VAL:HA	1:A:840:TYR:HE2	1.73	0.50
1:A:906:LEU:CB	1:A:998:VAL:HG11	2.37	0.50
1:A:1059:GLU:OE2	1:A:1093:LYS:HD3	2.12	0.50
1:A:1157:GLN:CB	1:A:1180:ARG:HH21	2.17	0.50
1:A:1522:GLU:N	1:A:1523:PRO:CD	2.74	0.50
1:A:3290:LEU:CD2	1:A:3335:TRP:CE2	2.59	0.50
2:B:444:LEU:HD21	2:B:526:ASN:CB	2.41	0.50
2:B:579:PHE:CZ	5:E:369:PRO:CG	2.85	0.50
2:B:658:GLN:NE2	2:B:672:ASN:CG	2.59	0.50
2:B:2267:ILE:HD11	2:B:2308:LEU:HG	1.94	0.50
2:B:2621:ILE:HG22	2:B:2667:LEU:HD13	1.93	0.50
2:B:3150:VAL:HG22	2:B:3707:LEU:HD23	1.93	0.50
3:C:7:TRP:CH2	3:C:352:LEU:HD12	2.46	0.50
3:C:1270:PHE:CG	3:C:1336:ALA:HB2	2.46	0.50
3:C:2708:GLN:OE1	3:C:2813:ILE:HG13	2.09	0.50
3:C:2708:GLN:HG3	3:C:2809:ALA:HB1	1.93	0.50
3:C:2800:PRO:CG	3:C:2818:VAL:CG2	2.89	0.50
4:D:91:TYR:CE2	13:M:80:LEU:HB3	2.42	0.50
4:D:526:ARG:HB3	4:D:535:GLN:HG3	1.93	0.50
5:E:20:PHE:CE1	14:N:89:GLN:CA	2.80	0.50
10:J:38:GLU:HB2	15:O:29:PHE:CZ	2.47	0.50
12:L:51:LYS:C	12:L:51:LYS:HD3	2.32	0.50
13:M:20:VAL:HG22	13:M:45:PHE:HZ	1.76	0.50
1:A:601:PRO:CB	1:A:698:GLU:OE1	2.40	0.50
1:A:902:THR:HG21	1:A:989:ILE:CD1	2.42	0.50
1:A:1118:LEU:CD2	1:A:1118:LEU:H	2.25	0.50
1:A:1680:ILE:HA	1:A:1683:TRP:CD1	2.47	0.50
1:A:3232:ILE:HG23	1:A:3316:TRP:CE3	2.31	0.50
2:B:436:PHE:HB2	2:B:463:PHE:CD2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:915:PRO:O	2:B:925:THR:HG22	2.11	0.50
2:B:951:MET:HB2	2:B:952:PRO:HD3	1.92	0.50
2:B:1102:LEU:H	2:B:1163:ARG:NH2	1.96	0.50
2:B:1456:PHE:CE1	2:B:1563:VAL:HG11	2.34	0.50
2:B:1602:LYS:HD2	2:B:1683:GLU:OE1	1.98	0.50
2:B:3118:TYR:CE2	2:B:3452:LEU:N	2.60	0.50
3:C:289:ASP:CG	3:C:317:LYS:HE3	2.32	0.50
3:C:1174:LEU:HD12	3:C:1191:ILE:HG22	1.92	0.50
3:C:2715:PRO:HG2	3:C:2719:VAL:HB	1.92	0.50
3:C:2727:ILE:HD11	3:C:2745:LYS:CD	2.14	0.50
9:I:81:GLU:OE2	9:I:102:ASN:CB	2.51	0.50
1:A:505:THR:O	1:A:509:LYS:CA	2.59	0.50
1:A:933:VAL:HG12	1:A:944:LEU:HB3	1.94	0.50
1:A:1016:PHE:CE2	1:A:1076:LEU:HB2	2.45	0.50
1:A:2298:LEU:HD21	20:A:4801:ATP:N7	2.26	0.50
1:A:2418:ILE:HG23	1:A:2428:VAL:HG22	1.93	0.50
1:A:3293:PHE:CZ	1:A:3335:TRP:CH2	2.87	0.50
2:B:658:GLN:HG3	2:B:672:ASN:O	2.07	0.50
2:B:864:ASN:HA	2:B:947:LEU:HD11	1.93	0.50
2:B:1461:TYR:HD2	2:B:1464:THR:O	1.95	0.50
2:B:1511:VAL:C	2:B:1570:VAL:CG2	2.74	0.50
2:B:1728:GLN:HE21	2:B:1868:ILE:HD12	1.75	0.50
3:C:164:HIS:CD2	3:C:201:GLY:HA3	2.47	0.50
3:C:2738:ILE:HG22	3:C:2746:PRO:HD3	0.70	0.50
4:D:75:LEU:CD1	15:O:102:LEU:CD1	2.88	0.50
4:D:512:HIS:HD2	4:D:513:PRO:CD	2.19	0.50
4:D:517:ILE:HG12	4:D:550:TRP:HZ2	1.64	0.50
6:F:26:PHE:CZ	6:F:48:ILE:HG23	2.47	0.50
10:J:98:PHE:HE1	10:J:107:MET:HE2	1.77	0.50
14:N:89:GLN:NE2	14:N:116:ALA:N	2.51	0.50
1:A:326:PRO:CB	1:A:373:MET:HA	2.42	0.50
1:A:607:ILE:CD1	1:A:655:PHE:HD2	2.25	0.50
1:A:3306:LEU:HA	1:A:3309:TYR:CD2	2.46	0.50
1:A:3347:LYS:O	1:A:3351:PRO:CG	2.56	0.50
2:B:422:ARG:NH1	2:B:422:ARG:CB	2.73	0.50
2:B:722:TYR:CE2	2:B:748:VAL:HG11	2.47	0.50
2:B:888:PRO:HG2	2:B:978:TRP:CE3	2.47	0.50
3:C:276:PHE:CE2	3:C:282:ARG:HA	2.47	0.50
3:C:276:PHE:CZ	3:C:282:ARG:HA	2.47	0.50
3:C:2585:PHE:HD1	3:C:2929:LEU:HA	1.70	0.50
3:C:2709:ALA:N	3:C:2758:MET:SD	2.83	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2730:LEU:CD1	3:C:2730:LEU:N	2.73	0.50
4:D:528:TRP:HD1	4:D:534:SER:C	2.15	0.50
4:D:532:TYR:CZ	4:D:652:MET:CE	2.95	0.50
5:E:46:ASN:ND2	12:L:88:PHE:HE1	2.09	0.50
5:E:164:VAL:HG23	5:E:181:TYR:HE1	1.66	0.50
5:E:394:TRP:HE1	5:E:401:PRO:N	2.10	0.50
5:E:420:THR:CG2	5:E:472:SER:CB	2.85	0.50
8:H:43:THR:OG1	9:I:86:ASP:OD2	2.29	0.50
1:A:948:LEU:N	1:A:948:LEU:CD2	2.73	0.50
1:A:1066:VAL:HB	1:A:1069:TYR:OH	2.11	0.50
1:A:3255:GLU:HA	1:A:3271:GLU:CB	2.42	0.50
2:B:666:ASN:HA	2:B:726:LYS:HZ1	1.77	0.50
2:B:1201:TYR:C	2:B:1201:TYR:CD2	2.85	0.50
2:B:3234:LEU:HD11	2:B:3336:LEU:HD21	1.94	0.50
3:C:1993:THR:HG22	3:C:2023:ILE:HD11	1.94	0.50
3:C:2796:PRO:CD	3:C:2796:PRO:O	2.59	0.50
4:D:114:ASP:OD1	5:E:43:ARG:HG3	2.12	0.50
4:D:215:ASP:O	4:D:216:HIS:CG	2.65	0.50
4:D:386:TYR:CD1	4:D:433:LEU:CD1	2.92	0.50
4:D:461:CYS:SG	4:D:462:PHE:N	2.84	0.50
5:E:64:GLU:OE2	10:J:18:TYR:OH	2.30	0.50
5:E:190:PRO:HD2	5:E:193:MET:HE2	1.94	0.50
5:E:207:SER:HB2	5:E:208:PRO:HD2	1.93	0.50
5:E:280:VAL:HG11	5:E:333:PHE:HE2	1.77	0.50
7:G:119:PRO:CG	9:I:12:ILE:HB	2.41	0.50
14:N:75:GLN:HB2	15:O:94:GLY:O	2.12	0.50
1:A:688:PHE:CB	1:A:727:TYR:CE2	2.95	0.49
1:A:735:LYS:NZ	4:D:347:GLU:OE1	2.31	0.49
1:A:902:THR:HG21	1:A:989:ILE:HD11	1.94	0.49
1:A:1631:PHE:CD1	1:A:1631:PHE:N	2.80	0.49
1:A:3303:ILE:CD1	1:A:3340:TYR:CD2	2.95	0.49
2:B:17:ARG:CA	2:B:21:ALA:HB3	2.42	0.49
2:B:793:SER:OG	2:B:832:ASN:HB3	2.12	0.49
2:B:1111:LYS:HA	2:B:1114:LEU:HD12	1.94	0.49
2:B:3140:LEU:HD23	2:B:3140:LEU:O	2.12	0.49
3:C:3010:LEU:HA	3:C:3102:LEU:HB2	1.94	0.49
4:D:403:LYS:HB2	4:D:462:PHE:CZ	2.47	0.49
4:D:528:TRP:CG	4:D:535:GLN:HA	2.44	0.49
5:E:57:SER:O	10:J:90:HIS:CE1	2.65	0.49
5:E:59:HIS:HD2	10:J:90:HIS:HE1	1.50	0.49
5:E:66:VAL:HG11	8:H:72:GLU:CG	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:513:TYR:CZ	5:E:517:LYS:HD2	2.47	0.49
6:F:54:ASP:OD2	7:G:109:LYS:CE	2.60	0.49
7:G:103:ILE:N	7:G:104:PRO:HD2	2.27	0.49
1:A:805:ARG:HH22	5:E:152:LEU:HD12	1.76	0.49
1:A:868:LEU:CD1	1:A:868:LEU:H	2.25	0.49
1:A:1450:TRP:CH2	1:A:1519:THR:CG2	2.95	0.49
1:A:3230:LEU:H	1:A:3233:ILE:HG21	1.75	0.49
1:A:3261:LYS:CG	1:A:3262:GLU:N	2.69	0.49
2:B:436:PHE:CE2	2:B:463:PHE:CD1	2.97	0.49
2:B:467:VAL:HG12	2:B:471:THR:CB	2.35	0.49
2:B:793:SER:HB3	2:B:836:ILE:HD11	1.94	0.49
2:B:920:SER:HB3	2:B:925:THR:HG21	1.94	0.49
2:B:3157:LEU:HA	2:B:3160:LYS:HE2	1.94	0.49
2:B:3582:ILE:HG23	2:B:3582:ILE:O	2.11	0.49
2:B:3827:LEU:HD11	2:B:4289:LEU:HD13	1.94	0.49
3:C:834:VAL:CG2	3:C:881:ILE:HD11	2.41	0.49
3:C:2708:GLN:CD	3:C:2813:ILE:CG1	2.81	0.49
3:C:3266:ILE:HD13	3:C:3388:ARG:NH1	2.27	0.49
4:D:372:VAL:HG11	4:D:414:PHE:CE2	2.47	0.49
4:D:417:ILE:HD12	4:D:474:VAL:CG2	2.35	0.49
5:E:35:VAL:C	14:N:78:HIS:HD1	2.15	0.49
5:E:44:ASN:HB3	5:E:45:PRO:HD3	1.93	0.49
5:E:64:GLU:OE2	10:J:18:TYR:CZ	2.65	0.49
7:G:79:VAL:HG21	7:G:146:ILE:CD1	2.42	0.49
7:G:79:VAL:HG21	7:G:146:ILE:HD12	1.92	0.49
10:J:62:GLU:HG3	11:K:69:TYR:CZ	2.47	0.49
12:L:16:LEU:HD11	12:L:35:ILE:CG2	2.42	0.49
13:M:10:THR:CG2	13:M:73:ILE:HG13	2.42	0.49
13:M:73:ILE:HG22	13:M:84:LEU:HD11	1.93	0.49
14:N:72:ILE:HG12	15:O:97:ILE:CB	2.38	0.49
15:O:41:LEU:HD23	15:O:67:LEU:HD12	1.94	0.49
15:O:45:ARG:CB	15:O:63:LEU:HD11	2.39	0.49
1:A:576:TYR:HE1	1:A:620:PRO:C	2.06	0.49
1:A:747:ILE:CD1	1:A:889:TYR:CD1	2.93	0.49
1:A:1051:GLN:CD	1:A:1096:TYR:CE2	2.82	0.49
1:A:2697:ARG:CG	19:A:4701:ADP:H4'	2.41	0.49
2:B:633:ILE:O	2:B:637:GLU:HG3	2.11	0.49
2:B:744:MET:SD	2:B:772:ILE:CD1	2.99	0.49
2:B:883:ASN:ND2	2:B:971:MET:SD	2.85	0.49
2:B:1488:LYS:CB	2:B:1501:VAL:HB	2.42	0.49
3:C:214:LEU:CD1	3:C:214:LEU:H	2.22	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:525:VAL:HG23	4:D:545:VAL:HG21	1.95	0.49
5:E:459:CYS:SG	5:E:460:ILE:N	2.86	0.49
10:J:21:PHE:CD1	10:J:21:PHE:C	2.83	0.49
10:J:68:MET:HB3	10:J:76:TRP:CD1	2.47	0.49
12:L:74:TRP:CE2	12:L:109:LYS:CD	2.81	0.49
12:L:84:CYS:HB3	13:M:56:ILE:CA	2.40	0.49
1:A:121:GLY:C	2:B:105:ALA:O	2.51	0.49
1:A:157:ALA:O	1:A:160:GLU:N	2.45	0.49
1:A:1012:LYS:CG	1:A:1071:ILE:HD12	2.41	0.49
1:A:1126:VAL:HG13	1:A:1132:LEU:N	2.23	0.49
1:A:1562:ILE:N	1:A:1563:PRO:CD	2.75	0.49
2:B:349:ASN:CB	2:B:416:LEU:HD11	2.41	0.49
2:B:439:LEU:HD12	2:B:503:LEU:HD11	1.93	0.49
2:B:658:GLN:HG2	2:B:673:PHE:HA	1.93	0.49
2:B:762:ILE:HG23	2:B:766:ILE:CG1	2.38	0.49
2:B:864:ASN:CA	2:B:947:LEU:CD2	2.78	0.49
2:B:963:PHE:CD2	3:C:103:THR:C	2.86	0.49
2:B:1243:LYS:CA	2:B:1251:SER:N	2.76	0.49
2:B:3265:GLN:HG3	2:B:3283:PHE:HE2	1.78	0.49
3:C:2055:ILE:HG22	3:C:2059:LEU:HD11	1.94	0.49
3:C:2592:LYS:HD2	3:C:2928:VAL:HG23	1.91	0.49
3:C:2687:ALA:HB2	3:C:2830:VAL:HG21	1.95	0.49
3:C:2727:ILE:O	3:C:2730:LEU:HD12	2.02	0.49
3:C:4081:ALA:N	3:C:4094:ILE:O	2.44	0.49
3:C:4084:ILE:HD11	3:C:4106:PRO:HG3	1.94	0.49
4:D:199:ILE:HG21	9:I:104:ALA:HB1	1.86	0.49
4:D:205:PHE:CE1	9:I:12:ILE:HG22	2.47	0.49
4:D:286:ILE:HG22	4:D:287:TRP:CE3	2.46	0.49
4:D:312:PHE:C	4:D:312:PHE:CD1	2.85	0.49
4:D:503:VAL:HG11	4:D:506:VAL:HG23	1.93	0.49
5:E:113:LYS:CD	6:F:10:GLN:O	2.60	0.49
5:E:116:VAL:HG11	6:F:99:ALA:CB	2.41	0.49
5:E:237:ASN:HD22	5:E:237:ASN:N	2.10	0.49
10:J:28:TRP:HA	10:J:28:TRP:HE3	1.77	0.49
13:M:72:TYR:CD1	13:M:72:TYR:C	2.85	0.49
16:P:10:THR:CB	16:P:66:ILE:N	2.73	0.49
1:A:666:SER:HB2	1:A:695:LEU:HD13	1.94	0.49
1:A:755:HIS:CE1	1:A:869:TYR:HB3	2.47	0.49
1:A:819:VAL:N	1:A:840:TYR:CE2	2.80	0.49
1:A:1132:LEU:CA	1:A:1272:LEU:CD1	2.78	0.49
2:B:598:ARG:CA	5:E:367:LEU:HD13	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1458:PHE:HZ	2:B:1563:VAL:CB	2.25	0.49
2:B:1731:LEU:HD11	2:B:1793:ILE:HG13	1.93	0.49
2:B:3231:VAL:HG22	2:B:3342:ASN:CB	2.41	0.49
19:B:5501:ADP:O2A	19:B:5501:ADP:H4'	2.13	0.49
3:C:232:TYR:CD1	3:C:232:TYR:C	2.86	0.49
4:D:68:GLU:HG2	5:E:12:LYS:CA	2.34	0.49
4:D:301:SER:HB3	4:D:352:CYS:HA	1.94	0.49
5:E:160:CYS:SG	5:E:161:LYS:N	2.85	0.49
8:H:50:ARG:HH22	9:I:88:THR:CG2	2.25	0.49
9:I:62:TYR:CD1	9:I:62:TYR:C	2.85	0.49
15:O:22:LEU:HD12	15:O:23:ASN:CB	2.41	0.49
1:A:121:GLY:N	2:B:105:ALA:O	2.46	0.49
1:A:3255:GLU:HA	1:A:3271:GLU:HB2	1.93	0.49
2:B:361:LYS:HA	2:B:477:ILE:CG2	2.42	0.49
2:B:729:LEU:CD1	2:B:780:VAL:HG22	2.40	0.49
2:B:965:ILE:N	2:B:965:ILE:HD12	2.26	0.49
2:B:2839:ILE:N	2:B:2840:PRO:HD2	2.28	0.49
3:C:3161:PHE:HB3	3:C:3203:ILE:HD11	1.94	0.49
4:D:96:PHE:CZ	10:J:89:VAL:HG21	2.48	0.49
4:D:517:ILE:HG13	4:D:550:TRP:CE2	2.41	0.49
8:H:83:GLN:HA	8:H:83:GLN:OE1	2.12	0.49
11:K:21:MET:HG2	11:K:54:TYR:CE2	2.47	0.49
1:A:695:LEU:HD23	1:A:695:LEU:O	2.13	0.49
1:A:859:VAL:HG11	1:A:887:LYS:HG2	1.95	0.49
1:A:899:LEU:CD2	1:A:989:ILE:HG12	2.42	0.49
1:A:1623:ILE:HG22	1:A:1623:ILE:O	2.11	0.49
1:A:3120:GLY:HA2	1:A:3696:LEU:CD1	2.41	0.49
2:B:500:GLU:CB	2:B:532:THR:HG21	2.42	0.49
2:B:801:ILE:HG13	2:B:878:ALA:CA	2.42	0.49
2:B:1521:VAL:HG22	2:B:1585:SER:CB	2.43	0.49
2:B:1599:LEU:HD22	2:B:1617:LEU:HD21	1.94	0.49
2:B:4216:MET:HA	2:B:4220:LEU:HD12	1.94	0.49
5:E:46:ASN:O	12:L:88:PHE:CE2	2.63	0.49
5:E:119:CYS:HB3	6:F:88:ILE:CD1	2.15	0.49
6:F:32:PRO:CB	6:F:45:ALA:HB1	2.42	0.49
10:J:110:THR:HG21	11:K:92:LYS:HG3	1.93	0.49
12:L:49:LEU:HD22	12:L:49:LEU:H	1.77	0.49
12:L:49:LEU:CD2	12:L:49:LEU:H	2.24	0.49
1:A:818:LEU:CB	1:A:844:LYS:HG3	2.41	0.49
1:A:1028:LYS:HG2	1:A:1029:GLU:N	2.28	0.49
1:A:1140:GLU:CD	4:D:165:LYS:CE	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1610:LEU:HD12	1:A:1610:LEU:O	2.13	0.49
1:A:1926:PHE:CB	1:A:1974:ILE:HG23	2.41	0.49
1:A:3018:LEU:O	1:A:3022:CYS:SG	2.71	0.49
2:B:511:PHE:CE2	2:B:547:LEU:HD23	2.47	0.49
2:B:956:LEU:O	2:B:959:ILE:HG13	2.13	0.49
2:B:1185:ASP:HB2	2:B:1186:PRO:HD2	1.94	0.49
2:B:2862:LEU:HD13	2:B:2864:LEU:HG	1.94	0.49
2:B:3077:SER:OG	2:B:3486:ILE:HD11	2.12	0.49
2:B:3272:PRO:HG2	2:B:3275:LYS:CG	2.43	0.49
3:C:29:VAL:CG2	3:C:92:ALA:HA	2.43	0.49
3:C:1864:ILE:HD11	3:C:1910:ILE:CG2	2.43	0.49
3:C:2096:ILE:HD11	3:C:2141:TYR:CD2	2.48	0.49
4:D:414:PHE:HD2	4:D:426:TRP:CG	2.21	0.49
5:E:20:PHE:HE2	15:O:80:LYS:HD2	1.68	0.49
5:E:394:TRP:HD1	5:E:400:THR:C	2.16	0.49
5:E:402:ILE:HD11	5:E:513:TYR:HB2	1.95	0.49
1:A:666:SER:HB3	1:A:695:LEU:HD12	1.95	0.49
2:B:521:PHE:HE2	2:B:609:LEU:HD21	1.78	0.49
2:B:669:ILE:O	2:B:719:VAL:CG1	2.59	0.49
2:B:862:TYR:CD1	2:B:862:TYR:C	2.86	0.49
2:B:2085:GLN:CG	2:B:2176:VAL:HG21	2.43	0.49
3:C:250:LYS:HG3	3:C:273:VAL:HG13	1.94	0.49
3:C:2676:GLN:O	3:C:2837:LEU:CB	2.61	0.49
3:C:2711:SER:HB2	3:C:2755:LEU:CD2	2.40	0.49
3:C:4138:PHE:CE1	3:C:4141:THR:HA	2.47	0.49
4:D:196:CYS:SG	9:I:86:ASP:HA	2.52	0.49
4:D:298:ASN:HB3	4:D:591:THR:HG21	1.94	0.49
4:D:553:TYR:CE1	4:D:595:PHE:CE2	3.00	0.49
5:E:100:GLU:HA	5:E:105:PHE:CD2	2.47	0.49
5:E:112:LEU:HD23	5:E:116:VAL:CG2	2.42	0.49
5:E:325:ASN:HB2	5:E:375:ARG:HD2	1.95	0.49
6:F:80:ARG:N	7:G:125:PHE:O	2.42	0.49
7:G:30:ILE:O	7:G:31:TYR:C	2.51	0.49
8:H:67:SER:HB3	9:I:78:ILE:CG2	2.40	0.49
12:L:70:GLY:O	12:L:109:LYS:CE	2.60	0.49
13:M:32:LYS:HD2	13:M:32:LYS:N	2.28	0.49
1:A:683:LYS:NZ	1:A:741:ASN:HD22	2.11	0.49
1:A:937:LEU:HD12	1:A:1081:ILE:HD11	1.93	0.49
1:A:1171:ILE:HG13	1:A:1171:ILE:O	2.12	0.49
1:A:3251:ILE:CG1	17:Q:62:ILE:N	2.74	0.49
2:B:429:LEU:HD21	2:B:493:ARG:HD2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:658:GLN:NE2	2:B:672:ASN:O	2.45	0.49
2:B:1330:TRP:O	2:B:1409:SER:C	2.49	0.49
2:B:1492:LYS:NZ	2:B:3606:GLN:CG	2.76	0.49
2:B:3311:ASN:O	2:B:3315:GLN:HG3	2.13	0.49
3:C:114:LEU:HB2	3:C:121:TRP:CD2	2.48	0.49
3:C:341:TRP:HB2	3:C:345:TRP:CD1	2.48	0.49
3:C:2743:ASN:OD1	3:C:2786:ASN:OD1	2.30	0.49
3:C:2751:TRP:O	3:C:2754:SER:HB3	2.12	0.49
4:D:100:GLU:OE2	4:D:100:GLU:HA	2.13	0.49
4:D:172:GLU:CD	12:L:51:LYS:HE2	2.33	0.49
4:D:174:GLN:CD	12:L:49:LEU:HB3	2.33	0.49
9:I:85:TYR:OH	9:I:106:LEU:HD13	2.12	0.49
10:J:38:GLU:HG3	15:O:29:PHE:CZ	2.45	0.49
11:K:53:LYS:HG2	11:K:54:TYR:CE1	2.47	0.49
14:N:75:GLN:CG	15:O:93:GLN:HG3	2.39	0.49
1:A:674:LEU:HD23	1:A:770:LEU:CB	2.43	0.48
1:A:1009:THR:OG1	1:A:1074:MET:SD	2.69	0.48
1:A:1534:MET:HB3	1:A:1537:GLN:CG	2.43	0.48
1:A:1613:ILE:HD11	1:A:1626:ASP:HB3	1.93	0.48
1:A:1790:HIS:NE2	1:A:1794:ILE:HD11	2.28	0.48
1:A:2117:GLU:HG2	1:A:2141:ILE:HD11	1.95	0.48
1:A:3251:ILE:HD11	17:Q:62:ILE:O	2.13	0.48
2:B:744:MET:CE	2:B:772:ILE:HG23	2.42	0.48
2:B:1051:ASP:OD2	2:B:1162:THR:CG2	2.60	0.48
2:B:1606:PHE:CE1	2:B:1687:LEU:HA	2.47	0.48
2:B:1627:ALA:HB3	2:B:1628:PRO:HD3	1.94	0.48
3:C:180:LEU:CD2	3:C:187:TRP:CE3	2.93	0.48
3:C:334:ARG:HG3	3:C:336:ILE:HD11	1.95	0.48
3:C:884:ARG:HA	3:C:889:ILE:HD11	1.95	0.48
3:C:2531:LEU:HB3	3:C:2536:LEU:HD11	1.95	0.48
4:D:201:GLN:CD	9:I:102:ASN:CB	2.56	0.48
4:D:508:TRP:HZ3	4:D:514:ARG:HA	1.78	0.48
5:E:76:LYS:O	8:H:64:ASN:OD1	2.30	0.48
5:E:271:LEU:N	5:E:271:LEU:CD1	2.76	0.48
7:G:37:ARG:O	7:G:38:LYS:C	2.51	0.48
9:I:19:MET:CB	9:I:22:LYS:HE3	2.43	0.48
9:I:74:THR:HG23	9:I:74:THR:O	2.11	0.48
12:L:55:LEU:HA	13:M:64:HIS:CE1	2.48	0.48
14:N:22:LYS:HE2	14:N:28:LYS:CB	2.43	0.48
16:P:15:SER:CA	16:P:16:GLU:N	2.71	0.48
1:A:801:ILE:HG21	1:A:862:LEU:HD23	1.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:891:PHE:CZ	1:A:971:ASN:OD1	2.66	0.48
1:A:1504:VAL:CG2	1:A:1565:CYS:CB	2.72	0.48
1:A:3187:ILE:HG22	1:A:3191:LYS:HD3	1.93	0.48
1:A:3500:ILE:HD12	1:A:3515:ILE:HG23	1.95	0.48
2:B:86:LYS:HA	2:B:104:VAL:O	2.13	0.48
2:B:798:ASN:HB2	2:B:874:ALA:CA	2.43	0.48
2:B:909:SER:C	2:B:995:TYR:HE1	2.16	0.48
2:B:3770:MET:HA	2:B:4089:LEU:HD13	1.95	0.48
2:B:3984:PHE:CE2	2:B:4076:LEU:HD11	2.49	0.48
3:C:124:PRO:HB3	3:C:185:PHE:CD1	2.48	0.48
3:C:1503:ILE:HD12	3:C:1523:PHE:CZ	2.48	0.48
3:C:2899:LEU:HD23	3:C:2899:LEU:O	2.13	0.48
4:D:241:PHE:HZ	7:G:78:ILE:CD1	2.16	0.48
5:E:308:GLU:OE1	5:E:343:LEU:HD11	2.13	0.48
7:G:32:GLN:O	7:G:33:LYS:C	2.52	0.48
1:A:1126:VAL:CG1	1:A:1131:SER:OG	2.61	0.48
1:A:2697:ARG:HG2	19:A:4701:ADP:O3'	2.13	0.48
1:A:3249:ILE:HG13	1:A:3273:TYR:N	2.29	0.48
2:B:467:VAL:CB	2:B:471:THR:OG1	2.59	0.48
2:B:835:GLN:O	2:B:839:LEU:HG	2.13	0.48
2:B:917:ILE:HG22	2:B:917:ILE:O	2.13	0.48
2:B:1529:TYR:CZ	2:B:1533:LEU:HD12	2.48	0.48
3:C:231:ILE:HG12	3:C:240:VAL:O	2.13	0.48
3:C:1567:LEU:HD22	3:C:1619:ASP:HB3	1.94	0.48
4:D:91:TYR:CE1	13:M:80:LEU:CD1	2.94	0.48
7:G:33:LYS:O	7:G:34:SER:C	2.51	0.48
7:G:35:LEU:O	7:G:36:LYS:C	2.51	0.48
7:G:77:LEU:HB2	7:G:90:PHE:CE2	2.48	0.48
10:J:75:TYR:CB	11:K:92:LYS:HE2	2.36	0.48
11:K:34:GLU:OE2	11:K:34:GLU:HA	2.12	0.48
1:A:879:LEU:HD12	1:A:882:GLU:CD	2.34	0.48
1:A:909:MET:O	1:A:913:VAL:HG23	2.13	0.48
1:A:936:GLN:C	1:A:937:LEU:HD12	2.33	0.48
1:A:1638:THR:OG1	1:A:1655:GLN:HG3	2.11	0.48
1:A:3269:LEU:HD21	1:A:3312:GLN:CD	2.33	0.48
1:A:3425:GLU:OE2	1:A:3425:GLU:HA	2.14	0.48
2:B:429:LEU:HD22	2:B:492:PHE:CE2	2.48	0.48
2:B:552:LYS:CG	2:B:622:VAL:HG22	2.43	0.48
2:B:575:ASN:HB2	5:E:481:GLN:CD	2.34	0.48
2:B:1490:GLN:HB3	2:B:3612:ASP:HB3	1.95	0.48
2:B:2333:PRO:HB3	20:B:5601:ATP:HN62	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:113:ILE:HD11	3:C:185:PHE:CZ	2.47	0.48
3:C:2365:GLY:O	3:C:2367:GLN:N	2.46	0.48
3:C:2730:LEU:HD22	3:C:2743:ASN:H	1.77	0.48
3:C:2984:TRP:HB3	3:C:2989:LEU:HD23	1.95	0.48
4:D:66:LEU:HD21	4:D:73:LYS:HG2	1.96	0.48
4:D:195:ILE:HD12	9:I:94:LEU:HD23	1.95	0.48
5:E:46:ASN:CA	12:L:88:PHE:CE1	2.96	0.48
5:E:60:SER:HB3	10:J:87:GLN:CB	2.43	0.48
5:E:306:ILE:CG2	5:E:343:LEU:HD12	2.43	0.48
5:E:398:LEU:HD21	5:E:516:GLU:HB3	1.95	0.48
8:H:12:LYS:HE2	8:H:80:TYR:OH	2.13	0.48
12:L:74:TRP:HA	12:L:109:LYS:HG2	1.96	0.48
15:O:31:PRO:HD3	15:O:109:ASN:ND2	2.26	0.48
15:O:46:LEU:HD23	15:O:115:TYR:CE2	2.48	0.48
1:A:666:SER:HB3	1:A:695:LEU:CD1	2.43	0.48
1:A:688:PHE:CG	1:A:727:TYR:CD2	3.01	0.48
1:A:889:TYR:HE2	7:G:12:SER:CB	2.27	0.48
1:A:948:LEU:CB	1:A:1010:LYS:HD3	2.43	0.48
1:A:1062:ILE:HG21	1:A:1086:SER:OG	2.13	0.48
1:A:1617:GLY:HA2	1:A:1623:ILE:HD11	1.84	0.48
2:B:1532:PHE:CE1	2:B:1539:ARG:HB2	2.49	0.48
3:C:109:ASN:HB3	3:C:145:PRO:HG3	1.95	0.48
3:C:2701:ILE:HG13	3:C:2704:LYS:CG	2.43	0.48
4:D:543:MET:SD	4:D:563:MET:HB2	2.51	0.48
5:E:100:GLU:CA	5:E:105:PHE:CD2	2.86	0.48
5:E:334:LEU:HD12	5:E:344:THR:HG22	1.94	0.48
5:E:355:ILE:N	5:E:355:ILE:CD1	2.73	0.48
7:G:18:GLN:O	7:G:19:GLN:C	2.52	0.48
7:G:31:TYR:O	7:G:32:GLN:C	2.52	0.48
7:G:111:ARG:NH2	7:G:139:PRO:HB2	2.29	0.48
8:H:60:ILE:CG2	9:I:85:TYR:HB3	2.44	0.48
9:I:20:ILE:O	9:I:99:TYR:CZ	2.67	0.48
9:I:24:ILE:HG23	9:I:98:PHE:HD1	1.77	0.48
12:L:69:ILE:HD12	12:L:92:VAL:HG13	1.95	0.48
14:N:17:ILE:HG23	14:N:110:VAL:HG11	1.96	0.48
1:A:576:TYR:CE1	1:A:620:PRO:CA	2.96	0.48
1:A:939:GLY:O	1:A:940:ASP:CB	2.59	0.48
1:A:2298:LEU:CD2	20:A:4801:ATP:N7	2.77	0.48
1:A:3249:ILE:HG12	1:A:3273:TYR:CB	2.43	0.48
2:B:927:ARG:HH12	2:B:976:LEU:HB2	1.77	0.48
2:B:1612:LEU:HD11	2:B:1637:CYS:HG	1.73	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3125:LYS:NZ	2:B:3447:MET:SD	2.83	0.48
2:B:3445:LYS:O	2:B:3487:PRO:O	2.32	0.48
2:B:4353:ILE:HG22	2:B:4425:LEU:HD13	1.96	0.48
3:C:352:LEU:H	3:C:352:LEU:CD1	2.27	0.48
3:C:2589:LEU:CA	3:C:2928:VAL:HG11	2.44	0.48
3:C:2787:ILE:HD13	3:C:2824:TYR:CB	2.44	0.48
4:D:92:TYR:CB	13:M:29:LYS:HA	2.42	0.48
5:E:221:ILE:HG13	5:E:221:ILE:O	2.12	0.48
7:G:34:SER:O	7:G:35:LEU:C	2.51	0.48
10:J:79:PHE:CZ	11:K:88:LEU:HD23	2.48	0.48
1:A:573:LEU:CG	1:A:633:GLU:HG2	2.29	0.48
1:A:992:ASP:CG	1:A:995:ILE:HG12	2.34	0.48
1:A:1031:ILE:CA	1:A:1092:TRP:CH2	2.95	0.48
1:A:1449:ILE:HG13	1:A:1452:LYS:NZ	2.28	0.48
1:A:1585:GLN:HE21	1:A:1585:GLN:C	2.17	0.48
1:A:1825:ILE:HD12	1:A:1889:LEU:HA	1.95	0.48
1:A:2696:MET:CE	19:A:4701:ADP:C8	2.97	0.48
2:B:508:THR:CG2	2:B:539:GLU:CD	2.82	0.48
2:B:675:PRO:O	5:E:187:GLN:NE2	2.47	0.48
2:B:714:ALA:HA	2:B:717:MET:CE	2.43	0.48
2:B:714:ALA:HB1	2:B:766:ILE:CD1	2.44	0.48
2:B:861:ASP:CB	3:C:170:GLN:CB	2.83	0.48
2:B:902:ILE:CG2	2:B:1076:LEU:CD1	2.90	0.48
2:B:2128:ASP:HB3	2:B:4466:LEU:HB2	1.96	0.48
2:B:3342:ASN:O	2:B:3346:PHE:CA	2.62	0.48
2:B:3445:LYS:CG	2:B:3487:PRO:CB	2.91	0.48
3:C:2927:ASP:CG	3:C:2974:ILE:CD1	2.74	0.48
4:D:134:LYS:HB2	4:D:134:LYS:HZ3	1.78	0.48
4:D:386:TYR:CE1	5:E:142:VAL:HG11	2.47	0.48
4:D:563:MET:O	4:D:563:MET:HE3	2.14	0.48
5:E:386:VAL:HG21	5:E:415:GLY:HA3	1.95	0.48
7:G:36:LYS:O	7:G:37:ARG:C	2.52	0.48
9:I:49:ASN:ND2	9:I:59:ALA:HA	2.28	0.48
1:A:2120:ILE:HB	1:A:2121:PRO:HD3	1.95	0.48
1:A:3191:LYS:HZ2	1:A:3191:LYS:CB	2.26	0.48
1:A:3255:GLU:CB	1:A:3271:GLU:HB2	2.44	0.48
2:B:527:PHE:CD2	2:B:530:LEU:HD23	2.48	0.48
2:B:599:ILE:HG22	2:B:626:TYR:CE1	2.49	0.48
2:B:638:ASP:O	2:B:642:LEU:CB	2.62	0.48
2:B:1057:LEU:CD1	2:B:1098:TYR:CD2	2.97	0.48
2:B:3089:ILE:HG22	2:B:3106:THR:HG21	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3012:ILE:HD12	3:C:3121:LEU:HD11	1.96	0.48
4:D:195:ILE:N	9:I:87:VAL:O	2.31	0.48
5:E:61:VAL:CG2	10:J:106:LEU:CD1	2.86	0.48
5:E:279:CYS:SG	5:E:291:TRP:HB2	2.53	0.48
7:G:17:ILE:O	7:G:18:GLN:C	2.51	0.48
8:H:36:ASN:N	8:H:36:ASN:HD22	2.10	0.48
15:O:46:LEU:HD23	15:O:115:TYR:CD2	2.48	0.48
1:A:5:LYS:C	1:A:6:TYR:N	2.67	0.48
1:A:800:ASP:O	1:A:804:ASN:HB2	2.14	0.48
1:A:891:PHE:CD1	1:A:972:TRP:CD2	2.90	0.48
1:A:971:ASN:HB3	1:A:983:ALA:CB	2.43	0.48
1:A:1016:PHE:HD2	1:A:1069:TYR:CD1	2.30	0.48
1:A:1091:GLU:OE1	1:A:1091:GLU:HA	2.14	0.48
1:A:1273:PHE:HB3	1:A:1275:LEU:HG	1.95	0.48
1:A:1441:ASN:HA	1:A:1562:ILE:CD1	2.44	0.48
1:A:1458:MET:SD	1:A:1549:MET:HA	2.54	0.48
1:A:1606:SER:HB2	1:A:1608:PRO:HD2	1.96	0.48
1:A:2515:MET:HA	1:A:2553:LYS:O	2.13	0.48
1:A:3251:ILE:CD1	17:Q:82:ASN:HA	2.40	0.48
1:A:3260:LYS:NZ	1:A:3267:LEU:CD2	2.77	0.48
1:A:3709:ASP:CB	1:A:3712:LEU:HD12	2.43	0.48
2:B:581:ASN:HD22	5:E:184:MET:CE	2.22	0.48
2:B:696:THR:HG22	2:B:697:THR:HG23	1.96	0.48
2:B:729:LEU:HD13	2:B:780:VAL:CG2	2.43	0.48
2:B:1139:LEU:CD2	2:B:1198:ILE:HD11	2.40	0.48
2:B:1566:ASN:CB	3:C:2275:LYS:HE3	2.39	0.48
2:B:2267:ILE:CD1	2:B:2311:ALA:HB2	2.44	0.48
2:B:3147:GLN:NE2	2:B:3427:ALA:HB2	2.29	0.48
3:C:354:VAL:HG22	3:C:357:ILE:HG13	1.94	0.48
3:C:2726:THR:HG21	3:C:2757:LEU:HD13	1.96	0.48
3:C:2799:THR:HB	3:C:2800:PRO:CD	2.44	0.48
4:D:92:TYR:CE1	13:M:29:LYS:HD3	2.49	0.48
4:D:117:TRP:CE3	4:D:118:LYS:O	2.67	0.48
4:D:175:THR:H	13:M:61:PHE:C	2.12	0.48
4:D:294:GLN:NE2	4:D:328:LEU:HD13	2.29	0.48
4:D:410:LYS:HE3	4:D:413:ASN:HD21	1.79	0.48
5:E:289:MET:SD	5:E:300:PRO:HG3	2.53	0.48
8:H:46:LYS:NZ	9:I:86:ASP:C	2.61	0.48
10:J:65:LYS:C	10:J:65:LYS:HD3	2.34	0.48
11:K:80:PHE:CD1	11:K:80:PHE:C	2.88	0.48
12:L:74:TRP:CD1	12:L:109:LYS:CD	2.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:819:VAL:HA	1:A:840:TYR:CE2	2.49	0.48
1:A:952:GLN:NE2	1:A:1010:LYS:NZ	2.62	0.48
1:A:1048:TYR:HE1	1:A:1100:LEU:HB2	1.79	0.48
1:A:1445:PHE:HE2	1:A:1564:CYS:HB3	0.72	0.48
1:A:3220:ILE:HG21	1:A:3286:PHE:CD2	2.49	0.48
2:B:17:ARG:HA	2:B:21:ALA:HB3	1.96	0.48
2:B:225:PRO:HA	2:B:298:LEU:CB	2.44	0.48
2:B:459:ILE:HG23	2:B:499:LEU:HD12	1.96	0.48
2:B:775:GLN:O	2:B:779:THR:HG23	2.13	0.48
2:B:899:LEU:HD11	2:B:900:PHE:CD1	2.39	0.48
2:B:1456:PHE:CE1	2:B:1467:PHE:CZ	3.02	0.48
2:B:4104:LYS:HA	2:B:4256:LEU:HD13	1.95	0.48
3:C:147:TYR:C	3:C:147:TYR:CD2	2.87	0.48
3:C:2093:GLN:HB2	3:C:2096:ILE:HG22	1.95	0.48
4:D:466:LYS:HZ1	4:D:511:PHE:H	1.62	0.48
6:F:47:HIS:O	6:F:51:LEU:HD13	2.13	0.48
13:M:21:LYS:HB3	13:M:21:LYS:HZ3	1.79	0.48
1:A:1012:LYS:CE	1:A:1071:ILE:CB	2.42	0.47
1:A:1935:SER:HB2	1:A:4048:LEU:HD13	1.96	0.47
1:A:3043:ILE:HD11	1:A:3059:LEU:HD23	1.95	0.47
2:B:14:ILE:O	2:B:22:LEU:HA	2.13	0.47
2:B:902:ILE:HG13	2:B:1076:LEU:HB2	1.48	0.47
2:B:2586:LYS:HA	2:B:2592:TYR:HD2	1.79	0.47
2:B:3453:LEU:CD2	2:B:3492:ILE:CD1	2.91	0.47
3:C:106:LEU:N	3:C:106:LEU:CD1	2.73	0.47
3:C:2670:LYS:HB3	3:C:2848:THR:CG2	2.44	0.47
4:D:106:ILE:HD12	4:D:106:ILE:C	2.34	0.47
4:D:204:ILE:HG21	9:I:101:GLY:O	2.14	0.47
4:D:355:PHE:HE1	4:D:377:ILE:HD11	1.79	0.47
4:D:372:VAL:CG1	4:D:414:PHE:CE2	2.97	0.47
4:D:483:LYS:NZ	4:D:530:SER:HB3	2.28	0.47
4:D:528:TRP:HD1	4:D:535:GLN:N	2.05	0.47
4:D:620:LEU:O	4:D:620:LEU:CD1	2.48	0.47
5:E:44:ASN:N	5:E:45:PRO:CD	2.77	0.47
5:E:131:GLU:HB2	5:E:134:GLU:HB2	1.95	0.47
8:H:39:LYS:HA	9:I:84:ALA:HB1	1.96	0.47
12:L:50:GLU:OE2	13:M:61:PHE:HA	2.14	0.47
16:P:24:ASN:HA	16:P:96:GLY:N	2.29	0.47
16:P:27:ASN:CA	16:P:95:GLU:HA	2.44	0.47
1:A:686:VAL:CG2	1:A:731:LEU:HD21	2.37	0.47
1:A:736:GLU:O	1:A:740:ILE:HG13	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:755:HIS:HE1	1:A:869:TYR:CB	2.27	0.47
1:A:1274:GLY:HA3	4:D:164:ASN:HA	1.94	0.47
1:A:1599:PHE:HE2	1:A:1630:LEU:HD22	1.80	0.47
1:A:1830:TRP:CZ2	1:A:1832:SER:HB2	2.49	0.47
1:A:3220:ILE:CG2	1:A:3286:PHE:CD2	2.97	0.47
2:B:10:PRO:C	2:B:25:GLN:H	2.13	0.47
2:B:613:ILE:O	2:B:616:ARG:HG3	2.14	0.47
2:B:3173:ILE:CG2	2:B:3177:LYS:HE3	2.44	0.47
3:C:10:LEU:HD11	3:C:67:CYS:HB3	1.95	0.47
3:C:146:ARG:HG3	3:C:149:HIS:ND1	2.29	0.47
3:C:149:HIS:HA	3:C:162:GLY:HA3	1.95	0.47
3:C:261:ILE:CB	3:C:360:PRO:HB3	2.40	0.47
3:C:352:LEU:HD13	3:C:352:LEU:H	1.79	0.47
3:C:2701:ILE:HD13	3:C:2704:LYS:CE	2.35	0.47
4:D:240:SER:OG	7:G:140:ASP:OD2	2.29	0.47
4:D:386:TYR:HE1	5:E:142:VAL:HG12	1.79	0.47
4:D:517:ILE:HD13	4:D:527:ILE:HA	1.95	0.47
7:G:16:ILE:O	7:G:17:ILE:C	2.52	0.47
9:I:26:ASN:HD22	9:I:98:PHE:HE2	1.63	0.47
11:K:46:ILE:CD1	11:K:87:ILE:HD13	2.45	0.47
17:Q:108:GLU:HA	17:Q:129:ILE:H	1.78	0.47
1:A:598:ARG:NE	4:D:319:TYR:CZ	2.82	0.47
1:A:888:ARG:CZ	7:G:5:THR:CB	2.92	0.47
1:A:1052:LEU:HD12	1:A:1162:LEU:HD21	1.96	0.47
1:A:1088:TRP:CD2	1:A:1092:TRP:NE1	2.77	0.47
1:A:1183:LEU:HD23	1:A:1183:LEU:O	2.14	0.47
1:A:1393:TYR:O	1:A:1397:ASP:N	2.46	0.47
1:A:1914:LEU:HD21	1:A:1921:GLY:HA3	1.97	0.47
1:A:1915:VAL:HA	1:A:1970:VAL:HG21	1.96	0.47
1:A:2498:ALA:HB2	19:A:4701:ADP:H8	1.79	0.47
1:A:3257:VAL:CG1	1:A:3266:VAL:HG22	2.43	0.47
2:B:555:LEU:HD23	2:B:625:LEU:HD13	1.97	0.47
2:B:1611:PHE:CE1	2:B:1925:PHE:HZ	2.32	0.47
2:B:2619:SER:N	2:B:2620:PRO:HD2	2.29	0.47
2:B:4447:PRO:HB2	2:B:4558:VAL:HG11	1.96	0.47
3:C:997:LEU:HB2	3:C:1051:GLN:HE22	1.79	0.47
3:C:2745:LYS:HD2	3:C:2749:VAL:CG1	2.43	0.47
3:C:2770:ASN:O	3:C:2774:VAL:HG23	2.13	0.47
3:C:2798:PHE:HD1	3:C:2803:MET:SD	2.31	0.47
4:D:374:VAL:HB	4:D:386:TYR:HB2	1.96	0.47
6:F:61:LYS:CD	8:H:33:ASP:O	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:75:TRP:CE3	9:I:109:LYS:HB2	2.49	0.47
1:A:603:GLU:HG3	1:A:662:LYS:HE3	1.97	0.47
1:A:879:LEU:HB2	1:A:882:GLU:CD	2.35	0.47
1:A:1012:LYS:HZ1	1:A:1072:GLY:H	0.47	0.47
1:A:1433:LEU:HD11	1:A:1490:PHE:HE1	1.68	0.47
1:A:3290:LEU:CD2	1:A:3335:TRP:HZ2	1.96	0.47
2:B:533:ARG:O	2:B:537:ALA:HB2	2.13	0.47
2:B:1058:LYS:HD3	2:B:1166:GLU:O	2.05	0.47
2:B:1480:HIS:O	2:B:1484:LEU:CB	2.63	0.47
3:C:89:ALA:CB	3:C:95:MET:HG2	2.44	0.47
3:C:196:PRO:CB	3:C:239:TRP:CH2	2.96	0.47
3:C:246:HIS:HE1	3:C:292:PHE:CD2	2.32	0.47
3:C:700:LEU:CB	3:C:717:CYS:CB	2.92	0.47
3:C:2820:ILE:HG23	3:C:2824:TYR:HD2	1.80	0.47
3:C:3966:LEU:HD23	3:C:3976:PRO:HB3	1.97	0.47
4:D:172:GLU:OE2	12:L:55:LEU:HB2	2.14	0.47
4:D:261:TYR:HE1	5:E:126:ILE:CD1	1.94	0.47
4:D:395:HIS:CD2	4:D:399:VAL:HG13	2.45	0.47
4:D:398:PRO:CD	4:D:398:PRO:O	2.59	0.47
4:D:556:THR:HB	4:D:571:LEU:CG	2.44	0.47
5:E:198:TYR:HB3	5:E:208:PRO:CB	2.43	0.47
5:E:276:GLY:HA3	5:E:294:ARG:HH11	1.79	0.47
15:O:103:TRP:C	15:O:103:TRP:CD1	2.88	0.47
1:A:577:ALA:CB	1:A:636:ARG:CD	2.60	0.47
1:A:607:ILE:HD13	1:A:655:PHE:HB2	1.95	0.47
1:A:617:ILE:HG22	1:A:644:LEU:HD11	1.96	0.47
1:A:1277:ASN:HB3	1:A:1280:TYR:CB	2.44	0.47
1:A:2033:LEU:CD2	1:A:4498:LEU:HD23	2.44	0.47
1:A:2489:ALA:O	1:A:2608:ILE:HA	2.13	0.47
2:B:544:HIS:CE1	2:B:609:LEU:CG	2.95	0.47
2:B:724:HIS:ND1	2:B:728:CYS:SG	2.87	0.47
2:B:899:LEU:HD12	2:B:899:LEU:C	2.33	0.47
2:B:1427:VAL:O	2:B:1431:VAL:HG23	2.14	0.47
2:B:2395:PRO:HG2	2:B:2665:LEU:HD21	1.97	0.47
2:B:3164:VAL:HG12	2:B:3409:ALA:CB	2.42	0.47
2:B:3230:ALA:HB3	2:B:3342:ASN:OD1	2.07	0.47
3:C:172:LEU:C	3:C:172:LEU:HD12	2.34	0.47
3:C:2617:VAL:CG2	3:C:3183:ILE:CD1	2.87	0.47
3:C:2779:GLN:O	3:C:2780:VAL:HG23	2.13	0.47
3:C:3622:ILE:HD11	3:C:3624:LEU:HD21	1.96	0.47
3:C:4129:TYR:O	3:C:4164:LEU:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:294:GLN:NE2	4:D:294:GLN:CA	2.73	0.47
4:D:361:ALA:HB2	5:E:133:PHE:CE2	2.49	0.47
4:D:553:TYR:OH	4:D:620:LEU:CD1	2.62	0.47
4:D:564:ASP:CG	4:D:583:LYS:CE	2.76	0.47
5:E:198:TYR:HB2	5:E:200:TRP:CZ3	2.49	0.47
5:E:376:SER:HB3	5:E:417:TRP:CE3	2.49	0.47
8:H:52:ARG:CA	18:R:63:ASN:HA	2.45	0.47
12:L:16:LEU:HD21	12:L:19:HIS:CE1	2.50	0.47
1:A:770:LEU:HD11	1:A:780:TYR:CG	2.50	0.47
1:A:1016:PHE:HD2	1:A:1020:PHE:CE2	2.33	0.47
1:A:1121:LYS:HD2	1:A:1138:THR:HG22	1.96	0.47
1:A:2298:LEU:HD11	20:A:4801:ATP:C5	2.50	0.47
1:A:3249:ILE:CD1	1:A:3273:TYR:CA	2.71	0.47
1:A:3249:ILE:HD11	1:A:3273:TYR:C	2.34	0.47
1:A:3280:THR:HG22	1:A:3286:PHE:HD1	1.79	0.47
1:A:3568:LEU:HD23	1:A:3568:LEU:C	2.35	0.47
2:B:53:ILE:CB	2:B:90:ALA:CB	2.89	0.47
2:B:492:PHE:CE2	2:B:496:ILE:HD11	2.50	0.47
2:B:601:GLU:N	2:B:602:PRO:CD	2.77	0.47
2:B:899:LEU:CD1	2:B:900:PHE:H	2.21	0.47
2:B:947:LEU:HD22	2:B:947:LEU:N	2.29	0.47
2:B:1708:ALA:HA	2:B:1711:TRP:CD1	2.49	0.47
2:B:3257:ARG:CG	2:B:3276:VAL:HG11	2.45	0.47
2:B:3402:LYS:HD3	2:B:3402:LYS:O	2.15	0.47
3:C:2690:LEU:CB	3:C:2826:VAL:CB	2.92	0.47
3:C:2784:ASN:C	3:C:2787:ILE:HG22	2.30	0.47
4:D:109:PHE:CD1	15:O:114:THR:OG1	2.67	0.47
4:D:162:LEU:HD23	4:D:162:LEU:O	2.14	0.47
4:D:509:ASN:HD21	4:D:512:HIS:HB3	1.80	0.47
4:D:517:ILE:HD11	4:D:550:TRP:HZ2	1.74	0.47
4:D:584:ILE:HG21	4:D:614:VAL:HG23	1.86	0.47
5:E:84:VAL:CG1	5:E:91:GLU:HB3	2.44	0.47
5:E:129:LEU:CD1	6:F:80:ARG:NE	2.77	0.47
7:G:86:VAL:HG21	7:G:143:PHE:CE1	2.49	0.47
8:H:24:VAL:HG22	8:H:49:PHE:HZ	1.79	0.47
10:J:37:LEU:HA	10:J:96:ILE:HD13	1.97	0.47
1:A:598:ARG:HH22	4:D:546:VAL:HG12	1.70	0.47
1:A:686:VAL:HG23	1:A:731:LEU:CD2	2.27	0.47
1:A:894:PHE:CD1	1:A:972:TRP:HH2	2.33	0.47
1:A:1041:ASN:CA	1:A:1047:ASN:HD21	2.25	0.47
1:A:1139:LEU:HB3	1:A:1143:ARG:HH22	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1140:GLU:OE2	4:D:165:LYS:HG2	2.13	0.47
1:A:1140:GLU:CD	4:D:165:LYS:HE3	2.35	0.47
1:A:3446:ASN:CA	1:A:3488:LEU:HD21	2.39	0.47
1:A:3896:LEU:N	1:A:3897:PRO:HD2	2.29	0.47
2:B:619:TYR:CD1	2:B:619:TYR:C	2.88	0.47
2:B:709:ARG:CZ	5:E:262:TYR:CD2	2.81	0.47
2:B:749:LYS:HB2	2:B:750:PRO:HD3	1.95	0.47
2:B:979:ILE:C	2:B:983:CYS:SG	2.87	0.47
2:B:1123:GLY:CA	2:B:1197:PHE:CE1	2.83	0.47
2:B:1205:PHE:HZ	2:B:1284:LEU:O	1.96	0.47
2:B:1316:ALA:HB1	16:P:62:LYS:CB	2.45	0.47
2:B:2516:HIS:HE2	2:B:2676:MET:HA	1.80	0.47
2:B:3150:VAL:HG22	2:B:3707:LEU:HD21	1.96	0.47
2:B:3150:VAL:HG11	2:B:3423:VAL:HG23	1.84	0.47
2:B:3242:MET:HA	2:B:3245:LEU:HD12	1.96	0.47
2:B:3264:ASN:ND2	2:B:3303:GLU:CD	2.64	0.47
3:C:35:MET:HE1	3:C:325:SER:OG	2.15	0.47
3:C:1864:ILE:HA	3:C:1868:CYS:HB3	1.97	0.47
3:C:1983:THR:HA	19:C:4702:ADP:N6	2.30	0.47
3:C:2666:CYS:SG	3:C:2667:GLY:N	2.87	0.47
3:C:2676:GLN:CB	3:C:2837:LEU:CA	2.93	0.47
3:C:2720:PRO:CB	3:C:2798:PHE:CD2	2.83	0.47
3:C:2730:LEU:HD22	3:C:2743:ASN:N	2.29	0.47
4:D:101:LEU:HD23	4:D:101:LEU:C	2.35	0.47
4:D:116:ILE:HG13	5:E:43:ARG:HD3	1.96	0.47
4:D:199:ILE:HD11	9:I:98:PHE:CD2	2.49	0.47
4:D:245:CYS:SG	7:G:145:LEU:HD12	2.55	0.47
4:D:248:MET:CE	7:G:147:VAL:HG23	2.44	0.47
4:D:367:LEU:HD11	4:D:371:THR:HG23	1.95	0.47
4:D:512:HIS:CD2	4:D:513:PRO:HD3	2.48	0.47
5:E:24:GLU:OE2	14:N:91:THR:HB	2.14	0.47
5:E:82:GLY:CA	8:H:12:LYS:HZ1	2.28	0.47
5:E:95:PHE:HE1	6:F:31:ILE:HD13	1.79	0.47
5:E:385:SER:HG	5:E:394:TRP:HZ3	0.72	0.47
10:J:48:LEU:HD13	10:J:100:ILE:CD1	2.33	0.47
11:K:18:MET:HA	11:K:18:MET:HE3	1.95	0.47
1:A:1013:VAL:HG22	1:A:1076:LEU:HD21	1.96	0.47
1:A:2336:PHE:HZ	1:A:2411:LEU:CD2	2.27	0.47
1:A:2363:LEU:HD23	1:A:2390:SER:HA	1.97	0.47
1:A:3508:LEU:HB2	1:A:3540:TRP:CD1	2.50	0.47
2:B:426:ILE:HG21	2:B:478:MET:SD	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:605:LYS:O	2:B:608:GLN:HB2	2.15	0.47
2:B:1316:ALA:O	16:P:60:PHE:O	2.29	0.47
2:B:1566:ASN:CG	3:C:2275:LYS:CE	2.83	0.47
2:B:3977:ALA:HB2	2:B:4093:ILE:HD12	1.97	0.47
3:C:24:HIS:CD2	3:C:325:SER:HB3	2.49	0.47
3:C:912:SER:HA	3:C:966:LEU:HD22	1.97	0.47
3:C:1890:LEU:HB3	3:C:1901:LEU:HD21	1.96	0.47
3:C:2800:PRO:CA	3:C:2814:CYS:HB3	2.38	0.47
4:D:529:ASP:HB3	4:D:532:TYR:HD2	1.79	0.47
5:E:74:SER:CB	9:I:56:ILE:HB	2.44	0.47
10:J:74:PRO:CG	12:L:102:ARG:CD	2.60	0.47
1:A:603:GLU:CG	1:A:662:LYS:HE3	2.44	0.47
1:A:1599:PHE:CE2	1:A:1601:ARG:HB2	2.50	0.47
1:A:2840:VAL:HG11	1:A:3041:THR:HG21	1.97	0.47
1:A:3297:SER:HB3	1:A:3299:ASN:OD1	2.14	0.47
2:B:443:GLU:CD	5:E:514:ARG:HH11	2.11	0.47
2:B:713:VAL:CG1	5:E:258:GLU:CD	2.80	0.47
2:B:729:LEU:HD23	2:B:734:GLU:CG	2.33	0.47
2:B:2333:PRO:HB3	20:B:5601:ATP:C6	2.43	0.47
2:B:2685:LYS:HA	2:B:2711:VAL:HG11	1.96	0.47
2:B:4440:MET:HB2	2:B:4443:ARG:CG	2.45	0.47
3:C:165:GLY:HA3	3:C:174:PHE:HE2	1.72	0.47
3:C:2703:LYS:H	3:C:2703:LYS:CD	2.27	0.47
5:E:20:PHE:HE1	14:N:89:GLN:HA	1.68	0.47
5:E:291:TRP:CE2	5:E:300:PRO:HB3	2.50	0.47
6:F:66:ASP:O	7:G:98:ASN:HB3	2.15	0.47
10:J:42:ARG:HA	10:J:42:ARG:HD2	1.71	0.47
13:M:3:HIS:CE1	13:M:78:ASN:HB3	2.50	0.47
15:O:41:LEU:HD23	15:O:67:LEU:CD1	2.45	0.47
1:A:306:LYS:O	1:A:310:ALA:HB3	2.15	0.47
1:A:871:LEU:CD2	1:A:872:ASP:O	2.63	0.47
1:A:1458:MET:SD	1:A:1552:MET:CG	3.03	0.47
1:A:3233:ILE:HD12	1:A:3329:ALA:HB2	1.95	0.47
2:B:436:PHE:CB	2:B:463:PHE:CD2	2.97	0.47
2:B:725:ILE:HD12	2:B:780:VAL:HG21	1.97	0.47
2:B:902:ILE:HB	2:B:1076:LEU:HG	1.76	0.47
2:B:938:PHE:HB3	2:B:956:LEU:HD13	1.97	0.47
2:B:951:MET:N	2:B:952:PRO:CD	2.78	0.47
2:B:1454:GLN:HB3	2:B:1473:MET:CE	2.45	0.47
2:B:1456:PHE:CZ	2:B:1569:VAL:HG12	2.50	0.47
2:B:3316:ASP:OD1	2:B:3317:PRO:HD2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3321:PHE:O	2:B:3321:PHE:CG	2.68	0.47
2:B:4315:LYS:HA	2:B:4367:LEU:HD11	1.96	0.47
2:B:4435:ILE:HD12	2:B:4436:PRO:HD2	1.97	0.47
3:C:2589:LEU:HB2	3:C:2928:VAL:CG1	2.34	0.47
3:C:2820:ILE:HG23	3:C:2824:TYR:CD2	2.50	0.47
4:D:422:ARG:NH2	4:D:424:MET:SD	2.86	0.47
4:D:584:ILE:HD12	4:D:585:VAL:H	1.80	0.47
5:E:383:PHE:CD1	5:E:383:PHE:C	2.87	0.47
5:E:395:VAL:HG12	5:E:396:GLU:N	2.30	0.47
5:E:491:CYS:O	5:E:495:TYR:CD2	2.68	0.47
6:F:54:ASP:OD2	7:G:109:LYS:HE2	2.15	0.47
6:F:82:LYS:N	7:G:124:VAL:HG23	2.30	0.47
16:P:24:ASN:CA	16:P:96:GLY:HA3	2.45	0.47
1:A:761:LEU:CD2	1:A:874:HIS:HE1	2.22	0.46
1:A:1127:LYS:O	1:A:1208:TYR:CE1	2.67	0.46
1:A:2567:VAL:HG22	1:A:2573:GLN:HG3	1.97	0.46
1:A:3226:ASN:ND2	1:A:3233:ILE:HD13	2.30	0.46
1:A:4477:MET:HG3	1:A:4524:VAL:HG23	1.96	0.46
2:B:736:LEU:HD23	2:B:736:LEU:C	2.35	0.46
2:B:1061:GLN:HG2	2:B:1091:VAL:CG1	2.45	0.46
2:B:1395:LEU:CB	2:B:1430:ILE:HG21	2.46	0.46
2:B:2333:PRO:CA	20:B:5601:ATP:C2	2.91	0.46
3:C:1221:THR:O	3:C:1225:THR:HG23	2.14	0.46
3:C:2403:TYR:CE1	3:C:2480:VAL:HG11	2.50	0.46
3:C:3381:SER:N	3:C:3382:PRO:HD2	2.29	0.46
4:D:313:ALA:CB	4:D:331:LEU:HG	2.45	0.46
4:D:567:GLN:CG	4:D:578:LYS:CD	2.87	0.46
5:E:64:GLU:CD	10:J:18:TYR:CE2	2.88	0.46
5:E:377:ASN:N	5:E:377:ASN:ND2	2.60	0.46
5:E:492:ASP:HB3	5:E:495:TYR:OH	2.15	0.46
6:F:19:GLY:O	6:F:102:LEU:N	2.48	0.46
6:F:26:PHE:CD1	6:F:49:ALA:CA	2.97	0.46
6:F:62:VAL:HG11	7:G:106:LEU:HD21	1.95	0.46
8:H:10:VAL:CG1	8:H:80:TYR:OH	2.63	0.46
13:M:23:ILE:HG22	13:M:41:ILE:HD13	1.96	0.46
15:O:64:VAL:HG13	15:O:85:VAL:HG23	1.98	0.46
1:A:655:PHE:CE2	1:A:659:TRP:CD1	3.01	0.46
1:A:935:VAL:HA	1:A:944:LEU:HD23	1.97	0.46
1:A:1009:THR:HB	1:A:1074:MET:CG	2.42	0.46
1:A:1637:VAL:HG11	1:A:1653:ILE:HD13	1.96	0.46
1:A:3106:LYS:CD	1:A:3443:LEU:CD1	2.93	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3538:GLN:O	1:A:3541:ILE:HG22	2.16	0.46
1:A:3748:ARG:HB3	1:A:3749:PRO:HD3	1.97	0.46
2:B:60:ASN:CA	2:B:81:ILE:CA	2.58	0.46
2:B:902:ILE:HG21	2:B:1076:LEU:CD1	2.42	0.46
2:B:946:ARG:HG3	2:B:953:GLY:HA3	1.96	0.46
2:B:1522:GLN:O	2:B:1526:LYS:N	2.42	0.46
2:B:3239:VAL:HG13	2:B:3291:ILE:HD11	1.96	0.46
2:B:3264:ASN:HA	2:B:3306:ILE:HD11	1.98	0.46
3:C:113:ILE:HD11	3:C:124:PRO:HG3	1.96	0.46
3:C:2738:ILE:CB	3:C:2746:PRO:CG	2.85	0.46
3:C:2740:ILE:HD12	3:C:2744:LYS:CD	2.33	0.46
3:C:2775:VAL:HG21	3:C:2824:TYR:CE2	2.50	0.46
4:D:265:ARG:CG	5:E:125:GLN:CG	2.71	0.46
5:E:170:HIS:CD2	5:E:172:GLU:HB3	2.51	0.46
6:F:54:ASP:CG	7:G:109:LYS:CE	2.82	0.46
10:J:19:LYS:HB3	10:J:28:TRP:HA	1.96	0.46
13:M:7:VAL:HG23	13:M:7:VAL:O	2.15	0.46
14:N:72:ILE:CG1	15:O:97:ILE:CG2	2.71	0.46
1:A:759:LEU:HD21	1:A:788:LEU:HD21	1.97	0.46
1:A:805:ARG:NH1	5:E:152:LEU:HD11	2.27	0.46
1:A:1140:GLU:CD	4:D:165:LYS:HE2	2.36	0.46
1:A:2298:LEU:CD2	20:A:4801:ATP:C8	2.98	0.46
1:A:2463:THR:HG23	19:A:4701:ADP:N6	2.30	0.46
1:A:3260:LYS:HZ3	1:A:3315:ASP:HB3	1.79	0.46
2:B:1230:MET:HE1	2:B:1266:VAL:C	2.34	0.46
2:B:3092:ALA:HB1	2:B:3472:LEU:HD11	1.96	0.46
3:C:217:PHE:HE1	3:C:246:HIS:HB2	1.78	0.46
3:C:1382:THR:HA	3:C:1385:ILE:HG22	1.97	0.46
3:C:3497:GLU:HG3	3:C:3861:ILE:HD11	1.97	0.46
4:D:75:LEU:CD2	4:D:75:LEU:N	2.73	0.46
4:D:426:TRP:CE3	4:D:435:PRO:HB3	2.48	0.46
4:D:529:ASP:CB	4:D:532:TYR:HD2	2.28	0.46
5:E:117:GLU:CD	6:F:17:LEU:HD21	2.30	0.46
10:J:32:CYS:N	10:J:95:PHE:O	2.49	0.46
12:L:82:PHE:HA	13:M:58:GLY:HA2	1.97	0.46
15:O:64:VAL:HG13	15:O:85:VAL:CG2	2.46	0.46
18:R:120:GLU:O	18:R:124:THR:CB	2.63	0.46
1:A:1143:ARG:CD	4:D:171:ARG:HE	2.27	0.46
1:A:1274:GLY:HA2	4:D:165:LYS:H	1.81	0.46
1:A:1620:PRO:HB2	1:A:1639:PHE:CE1	2.50	0.46
1:A:2871:SER:N	19:A:4901:ADP:O2B	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3715:VAL:HA	1:A:3718:ASN:HB3	1.97	0.46
1:A:4461:LEU:HD21	1:A:4516:ILE:HG21	1.97	0.46
2:B:59:THR:O	2:B:81:ILE:C	2.51	0.46
2:B:422:ARG:CB	2:B:422:ARG:HH11	2.28	0.46
2:B:436:PHE:CD1	2:B:499:LEU:CD2	2.51	0.46
2:B:551:TYR:CD2	2:B:622:VAL:HG11	2.34	0.46
2:B:599:ILE:HG22	2:B:626:TYR:CD1	2.51	0.46
2:B:642:LEU:HD13	2:B:642:LEU:O	2.16	0.46
2:B:811:PRO:HA	2:B:900:PHE:HE2	1.80	0.46
2:B:814:TYR:O	2:B:818:LEU:CB	2.63	0.46
2:B:919:GLU:N	2:B:927:ARG:HD2	2.30	0.46
2:B:1532:PHE:CE1	2:B:1546:THR:HB	2.51	0.46
2:B:1819:SER:HA	2:B:1857:VAL:HG13	1.98	0.46
2:B:3457:PHE:CE1	2:B:3498:LEU:HD11	2.49	0.46
3:C:172:LEU:HD12	3:C:173:ALA:O	2.14	0.46
3:C:192:PRO:HB3	3:C:237:ASP:C	2.36	0.46
3:C:346:LEU:O	3:C:346:LEU:HD13	2.15	0.46
3:C:972:LEU:HD21	3:C:1017:MET:HE1	1.96	0.46
3:C:2079:ILE:HD12	3:C:2124:VAL:CG1	2.45	0.46
3:C:2621:GLU:OE2	3:C:2900:VAL:HG23	2.14	0.46
3:C:2740:ILE:HG21	3:C:2744:LYS:CD	2.45	0.46
4:D:183:ARG:HD2	11:K:72:TYR:OH	2.16	0.46
4:D:514:ARG:O	4:D:514:ARG:HG3	2.15	0.46
4:D:567:GLN:CD	4:D:578:LYS:HD2	2.28	0.46
5:E:75:HIS:N	8:H:65:PHE:O	2.33	0.46
7:G:120:THR:H	9:I:12:ILE:HG21	1.81	0.46
8:H:24:VAL:HG22	8:H:49:PHE:CZ	2.51	0.46
12:L:72:GLY:O	12:L:109:LYS:CE	2.63	0.46
1:A:617:ILE:CD1	1:A:647:GLN:NE2	2.63	0.46
1:A:634:ILE:HG23	1:A:638:TYR:CE1	2.50	0.46
1:A:688:PHE:HD2	1:A:772:TRP:CH2	2.33	0.46
1:A:814:SER:HB3	1:A:900:ASN:HD22	1.80	0.46
1:A:909:MET:HE3	1:A:955:ILE:HD11	1.87	0.46
2:B:984:ASN:O	2:B:987:ARG:CG	2.63	0.46
2:B:1235:SER:O	2:B:1239:GLU:HG3	2.15	0.46
2:B:2781:ASP:HB3	2:B:3046:ASP:HA	1.98	0.46
2:B:3074:ILE:HG23	2:B:3486:ILE:HD12	1.97	0.46
2:B:3136:TYR:HE1	2:B:3436:ASN:ND2	2.05	0.46
2:B:3525:ILE:HD11	2:B:3544:TRP:HH2	1.80	0.46
2:B:3863:LEU:HD22	2:B:3863:LEU:N	2.31	0.46
2:B:4220:LEU:O	2:B:4220:LEU:HD23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2617:VAL:HG22	3:C:3183:ILE:CD1	2.37	0.46
4:D:141:MET:CB	4:D:158:ILE:HD13	2.45	0.46
4:D:163:ARG:NH1	12:L:73:GLU:HG2	2.30	0.46
4:D:201:GLN:OE1	9:I:81:GLU:OE2	2.34	0.46
4:D:537:ILE:HD13	4:D:647:TYR:OH	2.14	0.46
4:D:543:MET:CE	4:D:563:MET:HE3	2.38	0.46
5:E:164:VAL:HG21	5:E:485:VAL:HG23	1.97	0.46
6:F:84:SER:OG	6:F:106:ALA:CB	2.63	0.46
8:H:60:ILE:HD13	9:I:78:ILE:CD1	2.45	0.46
13:M:20:VAL:HG22	13:M:45:PHE:CZ	2.49	0.46
13:M:77:ILE:CG2	13:M:80:LEU:HB3	2.46	0.46
1:A:737:TYR:HD1	1:A:759:LEU:HD21	1.81	0.46
1:A:791:LEU:HG	1:A:795:ILE:HD12	1.97	0.46
1:A:808:ASN:O	1:A:812:THR:HG23	2.16	0.46
1:A:837:GLN:NE2	1:A:958:ALA:HA	2.30	0.46
1:A:2727:LEU:HD22	1:A:2772:GLU:HG2	1.97	0.46
1:A:3124:ILE:CD1	1:A:3425:GLU:CG	2.92	0.46
1:A:3257:VAL:HG22	1:A:3266:VAL:HG12	1.90	0.46
2:B:729:LEU:HB3	2:B:734:GLU:OE2	2.16	0.46
2:B:886:ILE:HD11	2:B:976:LEU:HD21	1.96	0.46
2:B:1507:LYS:CG	2:B:1571:GLU:OE1	2.64	0.46
2:B:1521:VAL:CG2	2:B:1585:SER:HB3	2.45	0.46
2:B:1566:ASN:CB	3:C:2275:LYS:HE2	2.40	0.46
3:C:90:ILE:HD11	3:C:96:LEU:CD2	2.46	0.46
3:C:1188:LEU:HD21	3:C:1218:VAL:HG22	1.97	0.46
4:D:301:SER:CB	4:D:352:CYS:HA	2.46	0.46
5:E:16:ASN:N	5:E:17:PRO:HD3	2.31	0.46
6:F:54:ASP:OD1	7:G:109:LYS:HE2	2.15	0.46
15:O:19:LEU:HD23	15:O:19:LEU:C	2.35	0.46
1:A:841:ILE:HD12	1:A:961:ALA:HB1	1.93	0.46
1:A:2870:GLY:H	19:A:4901:ADP:PB	2.39	0.46
1:A:3232:ILE:CG2	1:A:3316:TRP:CE3	2.87	0.46
2:B:559:GLN:HB2	2:B:629:ILE:CD1	2.45	0.46
2:B:584:PRO:CD	5:E:186:PHE:HD2	2.27	0.46
2:B:733:GLU:CG	2:B:783:MET:HG2	2.45	0.46
2:B:1083:MET:SD	2:B:1083:MET:C	2.94	0.46
2:B:2885:ASN:HB2	2:B:3043:THR:HG22	1.98	0.46
3:C:1658:ASP:O	20:C:4201:ATP:N6	2.49	0.46
3:C:2721:GLU:HG3	3:C:2813:ILE:HG22	1.98	0.46
3:C:2931:ALA:HB1	3:C:2975:LEU:HD21	1.97	0.46
4:D:379:ASN:OD1	5:E:138:SER:OG	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:465:ASN:HB2	4:D:508:TRP:CE2	2.51	0.46
4:D:477:GLU:HA	4:D:502:ALA:CB	2.45	0.46
5:E:150:LEU:CD1	5:E:475:LEU:HD22	2.46	0.46
10:J:76:TRP:CE2	10:J:109:GLN:HB2	2.51	0.46
14:N:89:GLN:HE22	14:N:116:ALA:N	2.03	0.46
1:A:61:GLU:CB	1:A:98:ILE:O	2.64	0.46
1:A:598:ARG:CZ	4:D:546:VAL:HG12	2.44	0.46
1:A:3237:MET:O	1:A:3241:LEU:HG	2.16	0.46
2:B:804:ARG:CZ	2:B:896:ILE:CG2	2.93	0.46
2:B:888:PRO:O	2:B:891:ILE:HG23	2.15	0.46
2:B:1002:GLN:C	2:B:1004:SER:H	2.18	0.46
2:B:2577:GLN:OE1	2:B:2636:ARG:NH1	2.49	0.46
2:B:2893:GLY:HA3	2:B:3109:LYS:HB2	1.97	0.46
2:B:4451:LEU:HD11	2:B:4559:PHE:CD1	2.51	0.46
3:C:267:PHE:CD1	3:C:293:VAL:HG22	2.50	0.46
3:C:2119:ILE:HG21	3:C:2122:THR:CG2	2.46	0.46
3:C:3151:LYS:CE	3:C:3217:ILE:HD11	2.46	0.46
3:C:3806:LYS:O	3:C:3810:ARG:HG3	2.15	0.46
4:D:239:THR:HA	4:D:242:LYS:HD3	1.96	0.46
4:D:573:VAL:CG2	4:D:579:LEU:HD21	2.46	0.46
5:E:27:TYR:H	5:E:27:TYR:HD1	1.61	0.46
5:E:110:LYS:HG3	6:F:10:GLN:OE1	2.15	0.46
5:E:120:ILE:HG23	6:F:101:GLN:OE1	2.15	0.46
5:E:437:TRP:CZ2	5:E:446:ILE:HG13	2.51	0.46
7:G:77:LEU:HB2	7:G:90:PHE:HE2	1.80	0.46
12:L:49:LEU:N	12:L:49:LEU:CD2	2.79	0.46
1:A:935:VAL:HA	1:A:944:LEU:CD2	2.46	0.46
1:A:3230:LEU:CA	1:A:3233:ILE:HG22	2.46	0.46
2:B:511:PHE:CE2	2:B:543:LYS:HG3	2.50	0.46
2:B:533:ARG:NE	2:B:534:PRO:HD3	2.31	0.46
2:B:799:VAL:C	2:B:800:LYS:HA	2.33	0.46
2:B:804:ARG:CZ	2:B:896:ILE:HG22	2.45	0.46
2:B:954:ASP:OD2	3:C:282:ARG:CD	2.62	0.46
2:B:1603:LYS:HB3	2:B:1610:TYR:CZ	2.50	0.46
2:B:3121:LEU:HD13	2:B:3121:LEU:O	2.14	0.46
2:B:3231:VAL:HG22	2:B:3342:ASN:C	2.36	0.46
2:B:3243:LYS:HD2	2:B:3284:MET:O	2.15	0.46
2:B:3267:ILE:O	2:B:3267:ILE:HG22	2.16	0.46
2:B:4152:ASN:HD21	2:B:4553:ARG:NH2	2.13	0.46
3:C:216:ILE:O	3:C:216:ILE:HG13	2.16	0.46
3:C:1612:ILE:N	3:C:1613:PRO:HD2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:68:GLU:HG2	5:E:12:LYS:C	2.36	0.46
4:D:145:GLU:HA	4:D:151:ALA:HB3	1.97	0.46
4:D:183:ARG:HB3	11:K:72:TYR:HE2	1.79	0.46
4:D:635:ALA:HB1	4:D:639:PHE:HB3	1.98	0.46
5:E:74:SER:OG	9:I:56:ILE:HB	2.16	0.46
15:O:34:ILE:HD11	15:O:76:VAL:HG21	1.98	0.46
15:O:91:LYS:NZ	15:O:91:LYS:CB	2.76	0.46
1:A:751:LEU:CD2	1:A:866:ILE:CD1	2.92	0.46
1:A:878:VAL:CG2	1:A:879:LEU:N	2.79	0.46
1:A:1458:MET:CE	1:A:1548:TRP:NE1	2.79	0.46
1:A:1613:ILE:HD11	1:A:1626:ASP:HB2	1.96	0.46
2:B:865:VAL:CG2	3:C:169:TYR:HB3	2.46	0.46
2:B:1076:LEU:HD23	2:B:1076:LEU:H	1.79	0.46
2:B:1511:VAL:CA	2:B:1570:VAL:HG13	2.34	0.46
2:B:2333:PRO:HB3	20:B:5601:ATP:N6	2.30	0.46
2:B:3320:LYS:HB3	2:B:3325:ASP:HB2	1.98	0.46
2:B:3388:VAL:CG1	2:B:3392:LYS:HE3	2.46	0.46
2:B:3446:SER:HB2	2:B:3489:THR:HG23	0.54	0.46
2:B:3791:VAL:O	2:B:3796:ARG:NH1	2.49	0.46
2:B:4041:LEU:CB	2:B:4044:ILE:HD11	2.46	0.46
2:B:4228:PRO:HB2	2:B:4229:TYR:CD2	2.51	0.46
2:B:4548:TYR:CD2	2:B:4553:ARG:HD2	2.52	0.46
3:C:1383:ASP:O	3:C:1387:VAL:HG23	2.16	0.46
3:C:1887:LEU:HD21	3:C:1902:PHE:HD1	1.81	0.46
3:C:2585:PHE:HE1	3:C:2929:LEU:N	2.11	0.46
4:D:636:MET:HA	4:D:636:MET:HE3	1.98	0.46
5:E:285:ASP:CG	5:E:285:ASP:O	2.53	0.46
5:E:430:ARG:O	5:E:430:ARG:HG2	2.16	0.46
6:F:85:TYR:HB3	6:F:87:TYR:CE1	2.51	0.46
7:G:137:VAL:HG22	7:G:146:ILE:HG23	1.98	0.46
11:K:33:VAL:HG22	11:K:42:ILE:HG13	1.97	0.46
12:L:73:GLU:HG3	13:M:66:ILE:HG21	1.98	0.46
14:N:8:TYR:HE1	14:N:13:VAL:HG21	1.77	0.46
15:O:72:LYS:HD3	15:O:72:LYS:O	2.16	0.46
1:A:614:PHE:CD1	1:A:644:LEU:HD23	2.46	0.45
1:A:801:ILE:CG2	1:A:862:LEU:HG	2.44	0.45
1:A:819:VAL:C	1:A:840:TYR:CE2	2.89	0.45
1:A:1449:ILE:HG13	1:A:1452:LYS:HZ1	1.81	0.45
1:A:1637:VAL:HG11	1:A:1653:ILE:CG2	2.44	0.45
1:A:2866:VAL:HG11	1:A:3026:TRP:CZ3	2.50	0.45
1:A:3855:ALA:HB2	1:A:4413:ALA:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:477:ILE:O	2:B:477:ILE:CG2	2.62	0.45
2:B:887:ASN:HA	2:B:888:PRO:HD3	1.87	0.45
2:B:962:PHE:CB	2:B:965:ILE:HD13	2.45	0.45
2:B:2494:TRP:CD1	2:B:2519:ARG:HB3	2.51	0.45
2:B:3103:TYR:CD2	2:B:3632:HIS:CD2	3.05	0.45
2:B:3514:ALA:HB3	2:B:3659:ALA:CB	2.46	0.45
3:C:1718:VAL:HG21	3:C:1737:LEU:HD21	1.97	0.45
3:C:2204:ILE:HB	3:C:3956:ALA:HB1	1.97	0.45
3:C:2726:THR:O	3:C:2729:LEU:CB	2.63	0.45
3:C:2742:LYS:CE	3:C:2785:VAL:CG2	2.79	0.45
4:D:584:ILE:HD11	4:D:590:LEU:HD21	1.98	0.45
5:E:394:TRP:HD1	5:E:400:THR:O	1.98	0.45
6:F:62:VAL:CG1	7:G:106:LEU:HD21	2.46	0.45
6:F:91:GLN:CD	6:F:96:THR:CG2	2.74	0.45
8:H:50:ARG:HH22	9:I:88:THR:HG21	1.80	0.45
8:H:80:TYR:CD1	8:H:80:TYR:O	2.69	0.45
12:L:74:TRP:CD2	12:L:109:LYS:HD2	2.48	0.45
1:A:688:PHE:HB3	1:A:727:TYR:HE2	1.81	0.45
1:A:899:LEU:HD22	1:A:995:ILE:CD1	2.46	0.45
1:A:1052:LEU:HD13	1:A:1166:TYR:CD2	2.51	0.45
1:A:1458:MET:CE	1:A:1548:TRP:HD1	2.22	0.45
1:A:1613:ILE:O	1:A:1680:ILE:HD12	2.16	0.45
1:A:2511:ASP:HB2	1:A:2514:LYS:HB2	1.98	0.45
1:A:3306:LEU:HD22	1:A:3309:TYR:CB	2.43	0.45
2:B:433:ILE:HG12	2:B:463:PHE:CE1	2.51	0.45
2:B:714:ALA:HB1	2:B:766:ILE:HD13	1.97	0.45
2:B:1119:LYS:CB	2:B:1138:LYS:HZ3	2.22	0.45
2:B:1490:GLN:HB3	2:B:3612:ASP:CB	2.47	0.45
2:B:3875:GLN:HA	2:B:3878:ILE:HD12	1.98	0.45
2:B:4287:LEU:C	2:B:4287:LEU:HD13	2.37	0.45
3:C:231:ILE:HG13	3:C:231:ILE:O	2.15	0.45
3:C:269:PHE:HB2	3:C:291:SER:CB	2.43	0.45
3:C:2719:VAL:HG23	3:C:2751:TRP:HB2	1.97	0.45
3:C:2763:GLU:HA	3:C:2763:GLU:OE2	2.16	0.45
3:C:2923:LEU:HB3	3:C:2966:SER:OG	2.17	0.45
4:D:251:MET:HG3	7:G:125:PHE:CZ	2.52	0.45
5:E:64:GLU:OE1	5:E:64:GLU:N	2.48	0.45
8:H:77:ILE:HG22	8:H:88:LEU:CD1	2.47	0.45
15:O:34:ILE:HD12	15:O:71:ILE:HG23	1.99	0.45
1:A:331:THR:C	1:A:380:ARG:CB	2.84	0.45
1:A:655:PHE:O	1:A:659:TRP:HD1	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1126:VAL:HG11	1:A:1201:TYR:HE1	1.81	0.45
1:A:1127:LYS:C	1:A:1208:TYR:OH	2.55	0.45
1:A:1647:ASN:N	1:A:1648:PRO:CD	2.80	0.45
1:A:2027:PHE:CE2	1:A:2051:ILE:HG23	2.50	0.45
1:A:2164:SER:HB2	20:A:4801:ATP:O2A	2.16	0.45
1:A:3067:HIS:CD2	1:A:3092:PHE:HB2	2.52	0.45
1:A:3290:LEU:HD23	1:A:3335:TRP:CH2	2.37	0.45
1:A:4445:ARG:HG2	1:A:4466:GLY:HA2	1.97	0.45
2:B:88:GLY:HA2	2:B:100:THR:CB	2.47	0.45
2:B:349:ASN:CB	2:B:416:LEU:CD1	2.94	0.45
2:B:413:PHE:CD2	2:B:416:LEU:HD12	2.51	0.45
2:B:439:LEU:HD21	2:B:456:ILE:HG23	1.99	0.45
2:B:822:PHE:O	2:B:826:LEU:HG	2.16	0.45
2:B:861:ASP:HB3	3:C:170:GLN:CB	2.46	0.45
2:B:935:ASN:CB	3:C:283:THR:HG21	2.35	0.45
2:B:2820:PHE:CZ	2:B:2836:GLN:HB3	2.52	0.45
2:B:3241:GLU:O	2:B:3245:LEU:N	2.50	0.45
3:C:161:PHE:HD2	3:C:177:LEU:HB2	1.81	0.45
3:C:195:ASN:C	3:C:239:TRP:HZ2	2.09	0.45
3:C:2669:ILE:HD13	3:C:2847:ALA:CB	2.17	0.45
3:C:2711:SER:CA	3:C:2751:TRP:HZ2	2.25	0.45
4:D:297:LYS:HZ3	4:D:328:LEU:CG	2.26	0.45
5:E:291:TRP:CH2	5:E:300:PRO:HD3	2.52	0.45
7:G:111:ARG:HA	7:G:123:LEU:HG	1.98	0.45
8:H:79:LEU:HD11	8:H:86:ILE:HB	1.98	0.45
1:A:590:GLN:CB	1:A:609:TRP:CH2	2.98	0.45
1:A:614:PHE:CZ	1:A:648:LEU:CD1	2.99	0.45
1:A:759:LEU:HD21	1:A:788:LEU:CD2	2.46	0.45
1:A:1727:LEU:HD11	1:A:1788:GLN:HE21	1.82	0.45
1:A:2907:LYS:HB2	1:A:2950:LEU:HD11	1.98	0.45
1:A:3049:LEU:HD12	1:A:3103:TYR:OH	2.16	0.45
1:A:3280:THR:HG22	1:A:3286:PHE:CD1	2.52	0.45
1:A:3453:PHE:HA	1:A:3457:CYS:SG	2.56	0.45
1:A:4082:PHE:CG	1:A:4083:PRO:HD2	2.52	0.45
2:B:523:LEU:C	2:B:523:LEU:CD2	2.85	0.45
2:B:1115:ASP:O	2:B:1119:LYS:HG3	2.16	0.45
2:B:1444:LEU:O	2:B:1448:GLU:CG	2.60	0.45
2:B:1447:ILE:HG12	2:B:1480:HIS:HB3	1.99	0.45
2:B:1490:GLN:OE1	2:B:3612:ASP:HB2	2.16	0.45
2:B:3140:LEU:CB	2:B:3433:TRP:CE3	2.52	0.45
2:B:3228:GLU:HG2	2:B:3346:PHE:CZ	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3231:VAL:HA	2:B:3339:TRP:HA	1.99	0.45
2:B:3267:ILE:CG2	2:B:3271:ASP:CB	2.93	0.45
3:C:102:TYR:CD1	3:C:103:THR:HG23	2.50	0.45
3:C:2585:PHE:HE1	3:C:2929:LEU:HB2	1.78	0.45
4:D:89:TYR:CG	11:K:56:PRO:HB3	2.51	0.45
4:D:174:GLN:HA	13:M:61:PHE:O	2.15	0.45
4:D:431:ASN:HA	5:E:142:VAL:HB	1.98	0.45
4:D:543:MET:CG	4:D:563:MET:HB3	2.46	0.45
4:D:553:TYR:OH	4:D:620:LEU:HD11	2.16	0.45
4:D:595:PHE:CE1	4:D:602:LEU:HD21	2.43	0.45
5:E:168:SER:CB	5:E:222:SER:HA	2.47	0.45
5:E:428:VAL:HG11	5:E:460:ILE:HB	1.97	0.45
7:G:58:SER:O	7:G:62:ASP:HB2	2.10	0.45
8:H:28:ALA:CB	8:H:86:ILE:CD1	2.91	0.45
14:N:116:ALA:HB1	15:O:131:PHE:CZ	2.51	0.45
1:A:1007:GLN:HA	1:A:1010:LYS:CE	2.44	0.45
1:A:1135:VAL:HG12	1:A:1136:MET:CE	2.46	0.45
1:A:2418:ILE:CG2	1:A:2428:VAL:HG22	2.47	0.45
1:A:3592:ASP:N	1:A:3593:PRO:HD2	2.32	0.45
2:B:277:GLU:O	2:B:281:ALA:HB2	2.17	0.45
2:B:467:VAL:C	2:B:471:THR:CB	2.70	0.45
2:B:533:ARG:NE	2:B:534:PRO:CD	2.79	0.45
2:B:725:ILE:CG2	2:B:776:LEU:HG	2.31	0.45
2:B:811:PRO:HA	2:B:900:PHE:CE2	2.51	0.45
2:B:3252:VAL:HG22	2:B:3330:SER:OG	2.15	0.45
2:B:4040:MET:HG2	2:B:4075:PHE:HB2	1.97	0.45
3:C:10:LEU:CD1	3:C:67:CYS:HB3	2.47	0.45
3:C:360:PRO:CG	3:C:361:PRO:HD2	2.46	0.45
3:C:463:PRO:O	3:C:465:LEU:N	2.43	0.45
4:D:538:CYS:O	4:D:538:CYS:SG	2.73	0.45
4:D:624:GLY:N	4:D:625:PRO:CD	2.79	0.45
5:E:99:ILE:HD13	6:F:31:ILE:HD11	1.85	0.45
5:E:343:LEU:HD13	5:E:355:ILE:HG21	1.97	0.45
6:F:80:ARG:NH2	6:F:103:CYS:SG	2.85	0.45
7:G:74:LEU:HD22	7:G:148:ILE:CG2	2.47	0.45
10:J:77:HIS:CA	11:K:70:VAL:HG23	2.46	0.45
12:L:70:GLY:N	12:L:109:LYS:NZ	2.65	0.45
13:M:53:TRP:CZ3	13:M:86:LYS:HB2	2.50	0.45
1:A:624:PHE:O	1:A:637:TYR:OH	2.19	0.45
1:A:886:ILE:O	1:A:890:TYR:CD1	2.66	0.45
1:A:894:PHE:CG	1:A:972:TRP:HH2	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1041:ASN:CA	1:A:1047:ASN:ND2	2.79	0.45
1:A:1134:TYR:CB	1:A:1268:ARG:HE	2.30	0.45
1:A:3248:LEU:HD12	17:Q:104:TYR:CZ	2.51	0.45
1:A:3999:THR:HG21	1:A:4044:GLN:NE2	2.31	0.45
2:B:682:LYS:HE2	5:E:186:PHE:CZ	2.48	0.45
2:B:814:TYR:O	2:B:818:LEU:HG	2.17	0.45
2:B:903:ARG:CG	2:B:914:ASP:OD2	2.56	0.45
2:B:1107:ARG:HE	2:B:1172:LYS:HZ1	1.63	0.45
2:B:1116:PHE:CA	2:B:1119:LYS:HZ3	2.19	0.45
2:B:1806:ILE:HD12	2:B:4535:GLU:HB2	1.98	0.45
2:B:2267:ILE:HD12	2:B:2311:ALA:HB2	1.99	0.45
2:B:2731:SER:OG	2:B:2732:ALA:N	2.50	0.45
2:B:3236:LYS:HA	2:B:3291:ILE:HG13	1.97	0.45
3:C:2357:LEU:HD23	3:C:2488:ILE:HD12	1.99	0.45
3:C:2720:PRO:CA	3:C:2798:PHE:CE2	2.95	0.45
4:D:177:ASN:HD21	13:M:60:ASN:HB2	0.29	0.45
4:D:248:MET:CE	7:G:147:VAL:HG21	2.42	0.45
4:D:531:LYS:NZ	4:D:532:TYR:CE1	2.84	0.45
5:E:289:MET:HB3	5:E:300:PRO:CB	2.47	0.45
5:E:433:TRP:NE1	5:E:451:LYS:HD3	2.32	0.45
7:G:119:PRO:HG2	9:I:12:ILE:HD13	1.97	0.45
8:H:43:THR:CB	9:I:86:ASP:OD2	2.65	0.45
11:K:29:ALA:HB1	11:K:87:ILE:HD12	1.98	0.45
11:K:36:TYR:CD2	11:K:41:LYS:HB3	2.45	0.45
14:N:75:GLN:N	15:O:93:GLN:HE21	2.03	0.45
15:O:24:TYR:CD1	15:O:26:LYS:HE2	2.51	0.45
1:A:1133:GLY:HA2	1:A:1272:LEU:CG	2.45	0.45
1:A:1639:PHE:CE1	1:A:1653:ILE:CG1	2.98	0.45
1:A:2030:LEU:HB2	1:A:2101:ILE:HD13	1.98	0.45
1:A:2786:CYS:HB3	1:A:2850:LEU:HD22	1.98	0.45
1:A:3260:LYS:NZ	1:A:3267:LEU:HD21	2.32	0.45
1:A:3560:HIS:CG	1:A:3561:PRO:HD2	2.51	0.45
2:B:718:ILE:HB	2:B:770:LYS:NZ	2.32	0.45
2:B:1119:LYS:CB	2:B:1138:LYS:HZ2	2.19	0.45
2:B:1492:LYS:HZ1	2:B:3606:GLN:CD	2.04	0.45
2:B:1792:THR:HG22	2:B:2038:ASN:HD21	1.80	0.45
2:B:3077:SER:HG	2:B:3486:ILE:HD11	1.82	0.45
2:B:3157:LEU:HA	2:B:3160:LYS:CE	2.47	0.45
2:B:3690:LEU:O	2:B:3694:LEU:HD23	2.16	0.45
3:C:111:THR:HG21	3:C:187:TRP:CH2	2.52	0.45
3:C:261:ILE:HG23	3:C:385:ASP:CB	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:338:PHE:CD2	3:C:338:PHE:O	2.70	0.45
3:C:341:TRP:HB2	3:C:345:TRP:NE1	2.32	0.45
5:E:121:TYR:CZ	6:F:17:LEU:HD22	2.52	0.45
5:E:355:ILE:H	5:E:355:ILE:CD1	2.24	0.45
6:F:61:LYS:NZ	8:H:33:ASP:O	2.49	0.45
9:I:79:ILE:HG22	9:I:105:VAL:HG13	1.98	0.45
12:L:37:GLN:HG2	12:L:60:PHE:CD1	2.51	0.45
1:A:805:ARG:HH11	5:E:149:THR:HG21	1.82	0.45
1:A:899:LEU:HD21	1:A:989:ILE:HG12	1.98	0.45
1:A:1274:GLY:CA	4:D:164:ASN:CG	2.81	0.45
1:A:1550:LYS:HB3	1:A:1554:LYS:NZ	2.32	0.45
1:A:3095:TYR:CE1	1:A:3452:ALA:HA	2.51	0.45
1:A:3350:LYS:CB	1:A:3351:PRO:CD	2.92	0.45
1:A:3638:LEU:HA	1:A:3641:LYS:HE3	1.98	0.45
1:A:4583:TYR:HB3	1:A:4584:PRO:HD2	1.98	0.45
2:B:867:VAL:CG1	2:B:944:ILE:HD13	2.46	0.45
2:B:1212:ILE:HG22	2:B:1213:PRO:HD3	1.97	0.45
2:B:1230:MET:SD	2:B:1266:VAL:CB	3.04	0.45
2:B:2543:GLY:N	19:B:5501:ADP:O2A	2.49	0.45
2:B:3140:LEU:HD12	2:B:3433:TRP:HB3	1.99	0.45
2:B:3528:CYS:SG	2:B:3642:THR:HG21	2.57	0.45
3:C:98:PHE:CE2	3:C:160:ILE:HD13	2.52	0.45
3:C:211:LYS:HB3	3:C:212:PRO:HD2	1.97	0.45
3:C:227:SER:HB3	3:C:249:PRO:HA	1.97	0.45
3:C:3244:VAL:HB	3:C:3878:VAL:HG22	1.98	0.45
4:D:209:TYR:HE1	4:D:213:MET:SD	2.40	0.45
4:D:329:ILE:CD1	4:D:350:VAL:HG21	2.44	0.45
4:D:620:LEU:HD12	4:D:620:LEU:C	2.31	0.45
5:E:435:ASP:N	5:E:435:ASP:OD1	2.49	0.45
5:E:492:ASP:N	5:E:495:TYR:CE2	2.84	0.45
5:E:497:MET:CE	5:E:501:GLU:HB2	2.47	0.45
6:F:23:TYR:CD1	6:F:23:TYR:O	2.70	0.45
8:H:46:LYS:CE	9:I:86:ASP:O	2.61	0.45
8:H:84:LEU:N	8:H:84:LEU:CD1	2.79	0.45
9:I:85:TYR:O	9:I:85:TYR:CD1	2.70	0.45
12:L:16:LEU:HD11	12:L:35:ILE:HG21	1.98	0.45
12:L:73:GLU:CB	13:M:66:ILE:CD1	2.78	0.45
14:N:74:GLN:NE2	14:N:77:ASN:HA	2.31	0.45
15:O:30:TYR:CE1	15:O:34:ILE:HG13	2.51	0.45
1:A:21:LEU:O	1:A:25:ASP:C	2.55	0.45
1:A:753:LEU:C	1:A:753:LEU:CD2	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1013:VAL:CG2	1:A:1076:LEU:HD11	2.46	0.45
1:A:1100:LEU:CD2	1:A:1100:LEU:C	2.85	0.45
1:A:1126:VAL:CG2	1:A:1201:TYR:OH	2.63	0.45
1:A:1143:ARG:HE	4:D:171:ARG:HH21	1.65	0.45
1:A:1778:ARG:HA	1:A:1778:ARG:NE	2.31	0.45
1:A:3229:PRO:CB	1:A:3233:ILE:HD13	2.46	0.45
1:A:3306:LEU:HD11	1:A:3310:LEU:CG	2.44	0.45
2:B:744:MET:HE1	2:B:772:ILE:HG13	1.95	0.45
2:B:804:ARG:CZ	2:B:899:LEU:HB3	2.47	0.45
2:B:956:LEU:HA	2:B:959:ILE:HG13	1.99	0.45
2:B:1498:TYR:C	2:B:1500:ARG:N	2.70	0.45
2:B:1604:LYS:HA	2:B:1945:GLN:OE1	2.17	0.45
2:B:3131:ARG:C	2:B:3131:ARG:CD	2.85	0.45
4:D:94:ARG:NE	11:K:52:GLU:O	2.47	0.45
5:E:256:PRO:HG2	5:E:259:ASN:HB3	1.98	0.45
13:M:64:HIS:CG	13:M:64:HIS:O	2.70	0.45
15:O:31:PRO:CD	15:O:109:ASN:ND2	2.80	0.45
1:A:670:LEU:CD2	1:A:670:LEU:C	2.86	0.45
1:A:805:ARG:NH2	5:E:152:LEU:CD1	2.80	0.45
1:A:1013:VAL:CG1	1:A:1076:LEU:HD21	2.46	0.45
1:A:3271:GLU:CD	1:A:3272:SER:H	2.20	0.45
2:B:514:TYR:CE2	2:B:523:LEU:HB2	2.51	0.45
2:B:642:LEU:C	2:B:642:LEU:CD1	2.86	0.45
2:B:1237:ARG:CD	2:B:1260:ALA:CA	2.84	0.45
2:B:2546:ALA:HB2	19:B:5501:ADP:H5'2	1.98	0.45
2:B:3261:ILE:C	2:B:3306:ILE:CG2	2.83	0.45
2:B:3265:GLN:HG3	2:B:3283:PHE:CE2	2.52	0.45
2:B:3947:ARG:NH1	2:B:3957:VAL:HG11	2.32	0.45
3:C:53:PRO:CD	3:C:81:PRO:HB2	2.47	0.45
3:C:1174:LEU:CD1	3:C:1191:ILE:HG22	2.47	0.45
4:D:68:GLU:HG3	5:E:12:LYS:CB	2.47	0.45
4:D:526:ARG:CB	4:D:528:TRP:CZ2	2.97	0.45
5:E:58:GLU:CB	10:J:89:VAL:HG22	2.45	0.45
5:E:334:LEU:CD1	5:E:344:THR:HG22	2.47	0.45
9:I:32:GLY:HA2	9:I:35:LEU:HD12	1.98	0.45
10:J:28:TRP:CE3	10:J:28:TRP:O	2.70	0.45
12:L:55:LEU:C	12:L:55:LEU:CD2	2.86	0.45
12:L:76:CYS:SG	12:L:106:LEU:O	2.70	0.45
15:O:33:LYS:NZ	15:O:75:LYS:HD2	2.32	0.45
1:A:7:SER:C	1:A:9:ARG:N	2.70	0.44
1:A:758:ASP:HA	1:A:761:LEU:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:935:VAL:HG12	1:A:1081:ILE:CD1	2.44	0.44
1:A:1127:LYS:O	1:A:1208:TYR:OH	2.34	0.44
1:A:1134:TYR:HB2	1:A:1268:ARG:HE	1.82	0.44
1:A:1390:LYS:C	1:A:1392:ASN:H	2.21	0.44
1:A:1458:MET:SD	1:A:1552:MET:HB2	2.57	0.44
1:A:3293:PHE:HZ	1:A:3335:TRP:HH2	1.61	0.44
2:B:649:GLU:O	2:B:652:SER:OG	2.29	0.44
2:B:658:GLN:HG2	2:B:673:PHE:CA	2.47	0.44
2:B:859:TYR:C	2:B:859:TYR:CD1	2.90	0.44
2:B:1237:ARG:HH22	2:B:1262:ASP:CB	2.30	0.44
2:B:3297:PHE:CE2	2:B:3302:ILE:CD1	2.96	0.44
2:B:3770:MET:HE1	2:B:4080:PRO:CB	2.46	0.44
2:B:3901:TRP:CZ2	2:B:3907:PRO:HB2	2.52	0.44
3:C:294:LEU:HB2	3:C:301:TRP:CE3	2.52	0.44
3:C:346:LEU:HD22	3:C:346:LEU:C	2.37	0.44
3:C:1690:LYS:N	20:C:4201:ATP:O2B	2.47	0.44
3:C:2593:ARG:CZ	3:C:2921:LEU:HD21	2.47	0.44
3:C:2787:ILE:HD13	3:C:2824:TYR:HB3	1.99	0.44
3:C:3054:SER:OG	3:C:3055:ALA:N	2.48	0.44
4:D:66:LEU:CB	4:D:70:MET:HB2	2.46	0.44
4:D:172:GLU:H	4:D:172:GLU:HG2	1.60	0.44
4:D:329:ILE:HB	4:D:344:PHE:HB2	1.98	0.44
4:D:501:LEU:HD12	4:D:522:ASP:CA	2.47	0.44
5:E:14:PHE:CD1	5:E:14:PHE:O	2.70	0.44
5:E:46:ASN:HB2	12:L:90:ALA:HA	1.98	0.44
5:E:57:SER:O	10:J:90:HIS:CD2	2.69	0.44
5:E:67:LYS:O	8:H:72:GLU:HA	2.17	0.44
5:E:453:SER:HB3	5:E:480:ASP:OD2	2.16	0.44
7:G:76:TYR:CG	7:G:76:TYR:O	2.70	0.44
1:A:751:LEU:CD2	1:A:751:LEU:C	2.86	0.44
1:A:1889:LEU:HD12	1:A:1920:TRP:CZ2	2.52	0.44
1:A:3546:SER:HA	1:A:3549:ILE:HG22	2.00	0.44
2:B:515:ASP:HA	2:B:520:ARG:NH2	2.32	0.44
2:B:746:GLU:O	2:B:750:PRO:CD	2.64	0.44
2:B:1447:ILE:CG2	2:B:1504:TRP:CZ2	2.84	0.44
2:B:1612:LEU:CD2	2:B:1637:CYS:SG	3.03	0.44
2:B:2417:LEU:N	2:B:2418:PRO:HD2	2.31	0.44
2:B:3261:ILE:O	2:B:3306:ILE:HG23	2.08	0.44
2:B:3606:GLN:HE21	2:B:3613:PRO:HB2	1.82	0.44
3:C:336:ILE:N	3:C:336:ILE:CD1	2.79	0.44
3:C:379:LYS:CA	3:C:418:CYS:O	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2018:GLN:NE2	19:C:4702:ADP:C2'	2.54	0.44
3:C:2213:ARG:NH2	19:C:4702:ADP:PB	2.89	0.44
3:C:2745:LYS:CG	3:C:2749:VAL:CG2	2.71	0.44
4:D:246:LYS:HE2	4:D:250:ARG:HH21	1.82	0.44
4:D:360:ALA:C	5:E:133:PHE:HZ	2.21	0.44
5:E:80:TRP:CZ3	5:E:84:VAL:HG11	2.52	0.44
5:E:129:LEU:HD12	6:F:80:ARG:NE	2.32	0.44
5:E:325:ASN:CB	5:E:375:ARG:HD2	2.48	0.44
5:E:386:VAL:HG21	5:E:415:GLY:CA	2.48	0.44
5:E:394:TRP:CG	5:E:401:PRO:HA	2.44	0.44
5:E:498:GLN:HB3	5:E:499:PRO:HD2	1.99	0.44
15:O:30:TYR:CD2	15:O:30:TYR:O	2.70	0.44
1:A:686:VAL:HG21	1:A:731:LEU:HD21	1.83	0.44
1:A:801:ILE:HG22	1:A:862:LEU:HD11	1.98	0.44
1:A:821:LEU:O	1:A:912:ARG:CZ	2.66	0.44
1:A:1013:VAL:CG1	1:A:1076:LEU:CD2	2.95	0.44
1:A:1066:VAL:HG11	1:A:1068:THR:O	2.14	0.44
1:A:1132:LEU:O	1:A:1272:LEU:HD21	2.17	0.44
1:A:1143:ARG:NE	4:D:171:ARG:HH21	2.14	0.44
1:A:1162:LEU:C	1:A:1162:LEU:CD2	2.86	0.44
1:A:1417:GLU:O	1:A:1420:THR:OG1	2.29	0.44
1:A:1436:ILE:HG22	1:A:1440:TRP:HD1	1.82	0.44
1:A:1478:LEU:HB3	1:A:1494:VAL:HG13	1.99	0.44
1:A:1540:GLN:O	1:A:1544:ILE:CB	2.64	0.44
1:A:3235:TYR:CE2	1:A:3269:LEU:HD11	2.06	0.44
2:B:177:PRO:O	2:B:197:GLU:CB	2.65	0.44
2:B:591:TRP:NE1	5:E:411:TYR:OH	2.51	0.44
2:B:660:LEU:HG	2:B:755:ILE:HG21	1.98	0.44
2:B:844:LEU:C	2:B:844:LEU:CD2	2.85	0.44
2:B:993:TYR:CZ	2:B:1067:ILE:HG21	2.52	0.44
2:B:1529:TYR:HA	2:B:1549:PHE:CZ	2.52	0.44
2:B:1606:PHE:HB3	2:B:1609:PHE:CD2	2.53	0.44
2:B:2961:PRO:HA	2:B:2971:ILE:HD12	1.99	0.44
2:B:3147:GLN:HB2	2:B:3426:LEU:HB3	1.98	0.44
2:B:3238:HIS:HE1	2:B:3335:LYS:HE3	1.83	0.44
3:C:227:SER:CB	3:C:249:PRO:HA	2.47	0.44
3:C:287:PHE:CE1	3:C:322:GLU:HB2	2.52	0.44
3:C:380:VAL:N	3:C:418:CYS:O	2.51	0.44
3:C:2207:HIS:CE1	3:C:2514:TRP:CZ3	3.06	0.44
3:C:2760:SER:HB2	3:C:2763:GLU:CG	2.48	0.44
3:C:2903:LEU:C	3:C:2903:LEU:CD2	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2934:PHE:CE2	3:C:3001:ILE:CG1	3.00	0.44
4:D:79:ASN:ND2	15:O:103:TRP:CH2	2.85	0.44
4:D:294:GLN:CG	4:D:297:LYS:HZ1	2.28	0.44
4:D:312:PHE:CD1	4:D:312:PHE:O	2.70	0.44
4:D:576:LEU:C	4:D:576:LEU:CD1	2.85	0.44
5:E:26:ARG:HB2	5:E:26:ARG:CZ	2.48	0.44
5:E:61:VAL:HG11	10:J:95:PHE:CE1	2.52	0.44
9:I:35:LEU:HB3	9:I:39:GLN:HE21	1.82	0.44
9:I:85:TYR:CD1	9:I:85:TYR:C	2.90	0.44
12:L:27:ALA:HB3	12:L:30:LEU:HG	1.98	0.44
14:N:78:HIS:O	14:N:78:HIS:CG	2.70	0.44
1:A:933:VAL:CG2	1:A:951:ILE:CD1	2.93	0.44
1:A:948:LEU:HB3	1:A:1010:LYS:CD	2.45	0.44
1:A:971:ASN:CB	1:A:983:ALA:CA	2.86	0.44
1:A:1027:CYS:O	1:A:1088:TRP:CZ3	2.70	0.44
1:A:1070:LYS:HG2	1:A:1075:GLU:HG2	2.00	0.44
1:A:2367:CYS:HB3	1:A:2386:PHE:CD1	2.53	0.44
2:B:225:PRO:CB	2:B:298:LEU:CB	2.96	0.44
2:B:440:GLU:HB2	2:B:460:PHE:CD1	2.52	0.44
2:B:969:LEU:C	2:B:969:LEU:CD2	2.86	0.44
2:B:1533:LEU:HD23	2:B:1534:LEU:HG	1.99	0.44
2:B:2413:LEU:O	2:B:2417:LEU:N	2.51	0.44
2:B:3140:LEU:C	2:B:3140:LEU:CD2	2.86	0.44
2:B:3353:VAL:HA	2:B:3356:LEU:HD12	2.00	0.44
3:C:29:VAL:CG2	3:C:92:ALA:C	2.85	0.44
3:C:161:PHE:CG	3:C:161:PHE:O	2.70	0.44
3:C:2733:TYR:O	3:C:2733:TYR:CD1	2.70	0.44
4:D:303:CYS:HB2	4:D:353:LEU:CD2	2.48	0.44
4:D:428:LEU:HD12	4:D:428:LEU:N	2.32	0.44
4:D:441:LEU:HB3	4:D:457:ALA:HB3	1.98	0.44
4:D:621:CYS:SG	4:D:622:LYS:N	2.90	0.44
5:E:150:LEU:HD11	5:E:475:LEU:HD22	1.99	0.44
8:H:79:LEU:C	8:H:79:LEU:CD1	2.85	0.44
9:I:24:ILE:CG2	9:I:98:PHE:CD1	2.97	0.44
12:L:70:GLY:N	12:L:109:LYS:HZ1	2.15	0.44
1:A:730:LEU:HD23	1:A:781:LEU:HD22	2.00	0.44
1:A:764:ARG:N	1:A:765:PRO:HD2	2.32	0.44
1:A:821:LEU:O	1:A:912:ARG:CD	2.64	0.44
1:A:869:TYR:CD2	1:A:871:LEU:HB3	2.53	0.44
1:A:1020:PHE:HA	1:A:1023:PHE:CZ	2.40	0.44
1:A:1390:LYS:C	1:A:1392:ASN:N	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1441:ASN:CA	1:A:1562:ILE:HD11	2.48	0.44
1:A:2839:LEU:HD11	19:A:4901:ADP:N6	2.14	0.44
1:A:3124:ILE:HD11	1:A:3429:TRP:NE1	2.32	0.44
1:A:3131:ILE:HG12	1:A:3422:LEU:CD1	2.48	0.44
2:B:946:ARG:CG	2:B:953:GLY:HA3	2.47	0.44
2:B:967:GLN:OE1	3:C:43:LYS:HD3	2.16	0.44
2:B:1447:ILE:HG12	2:B:1480:HIS:CG	2.52	0.44
2:B:1603:LYS:HD3	2:B:1610:TYR:CD1	2.52	0.44
2:B:2176:VAL:HG13	2:B:2177:ARG:HG2	1.99	0.44
2:B:2742:ARG:NH2	19:B:5501:ADP:O2B	2.47	0.44
3:C:12:GLN:HE22	3:C:349:LEU:HB3	1.79	0.44
3:C:1466:SER:HB3	3:C:3629:LEU:HD13	2.00	0.44
5:E:20:PHE:CG	5:E:20:PHE:O	2.70	0.44
5:E:457:LEU:N	5:E:457:LEU:CD1	2.80	0.44
11:K:42:ILE:CG2	11:K:62:VAL:HG21	2.46	0.44
14:N:84:GLN:OE1	14:N:84:GLN:HA	2.18	0.44
1:A:98:ILE:HA	1:A:121:GLY:HA2	1.99	0.44
1:A:761:LEU:HD12	1:A:872:ASP:OD2	2.17	0.44
1:A:1016:PHE:O	1:A:1020:PHE:CG	2.70	0.44
1:A:1592:LEU:HA	1:A:1592:LEU:HD12	1.82	0.44
1:A:2745:LEU:HD11	1:A:2754:VAL:HG21	1.99	0.44
1:A:2938:ILE:HD12	1:A:2999:LEU:HD21	1.99	0.44
1:A:3684:ASN:HB3	1:A:3726:VAL:HG22	1.98	0.44
2:B:598:ARG:NH1	5:E:389:TRP:NE1	2.66	0.44
2:B:865:VAL:HG11	3:C:169:TYR:HD1	1.83	0.44
2:B:1528:LEU:HD22	2:B:1591:CYS:HB2	1.97	0.44
2:B:1599:LEU:HD22	2:B:1617:LEU:CD2	2.48	0.44
2:B:3119:LYS:NZ	2:B:3119:LYS:CB	2.73	0.44
2:B:3144:ALA:HA	2:B:3430:ASN:HD21	1.83	0.44
2:B:3765:SER:HB2	2:B:3772:GLN:HA	2.00	0.44
2:B:4187:ILE:HD12	2:B:4213:PHE:CE1	2.53	0.44
3:C:24:HIS:CE1	3:C:339:GLY:O	2.70	0.44
3:C:99:GLY:HA3	3:C:149:HIS:HE2	1.80	0.44
3:C:318:PRO:HB3	3:C:350:TRP:CD2	2.51	0.44
3:C:1188:LEU:HD11	3:C:1207:LEU:HD11	1.98	0.44
3:C:2177:ILE:CG2	3:C:2233:PRO:HA	2.47	0.44
3:C:2556:VAL:HG11	3:C:2937:TYR:CD1	2.53	0.44
3:C:2899:LEU:C	3:C:2899:LEU:CD2	2.86	0.44
3:C:2927:ASP:OD2	3:C:2974:ILE:CD1	2.65	0.44
3:C:2989:LEU:HD12	3:C:2990:PRO:HD2	2.00	0.44
4:D:107:VAL:O	4:D:107:VAL:HG13	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:242:LYS:CG	7:G:60:VAL:HG21	2.45	0.44
4:D:246:LYS:HE2	4:D:250:ARG:NH2	2.32	0.44
4:D:298:ASN:N	4:D:298:ASN:HD22	2.14	0.44
4:D:573:VAL:HB	4:D:579:LEU:HD11	1.99	0.44
5:E:394:TRP:CZ2	5:E:401:PRO:HB3	2.51	0.44
6:F:35:ARG:CZ	6:F:41:SER:CB	2.80	0.44
10:J:38:GLU:OE1	15:O:29:PHE:CD1	2.67	0.44
10:J:99:TYR:CZ	10:J:104:ALA:HB2	2.52	0.44
12:L:67:PHE:CD2	12:L:67:PHE:O	2.70	0.44
13:M:44:GLU:HA	13:M:47:LYS:NZ	2.33	0.44
15:O:76:VAL:N	15:O:77:PRO:CD	2.80	0.44
15:O:113:TYR:CE2	15:O:115:TYR:HB2	2.52	0.44
1:A:818:LEU:O	1:A:818:LEU:CD2	2.64	0.44
1:A:1100:LEU:CD2	1:A:1159:MET:CE	2.94	0.44
1:A:1600:PRO:HB2	1:A:1917:SER:CB	2.45	0.44
1:A:3240:VAL:CG1	1:A:3244:PHE:CE1	2.92	0.44
1:A:3322:ALA:CB	1:A:3333:LEU:HD12	2.44	0.44
1:A:4056:ILE:CD1	1:A:4072:LEU:HD21	2.45	0.44
2:B:725:ILE:CD1	2:B:780:VAL:HB	2.47	0.44
2:B:736:LEU:HG	2:B:856:TRP:HA	1.98	0.44
2:B:798:ASN:OD1	2:B:799:VAL:N	2.51	0.44
2:B:986:PHE:HA	2:B:989:ARG:NE	2.32	0.44
2:B:1456:PHE:CG	2:B:1569:VAL:CG1	2.98	0.44
2:B:1783:GLU:HA	2:B:1786:LYS:HE2	2.00	0.44
2:B:3067:ILE:HD13	2:B:3119:LYS:HG3	1.99	0.44
3:C:244:ILE:N	3:C:244:ILE:HD12	2.32	0.44
3:C:2663:ALA:CB	3:C:2855:GLU:OE2	2.66	0.44
3:C:3014:PRO:CD	3:C:3125:THR:HG22	2.47	0.44
4:D:89:TYR:CD2	11:K:56:PRO:HB3	2.53	0.44
4:D:584:ILE:H	4:D:584:ILE:HG13	1.49	0.44
4:D:640:LYS:HZ1	4:D:643:LYS:HD3	1.83	0.44
5:E:57:SER:O	10:J:90:HIS:N	2.49	0.44
5:E:64:GLU:OE1	10:J:18:TYR:OH	2.32	0.44
5:E:129:LEU:CD1	6:F:80:ARG:CD	2.93	0.44
6:F:26:PHE:CE1	6:F:48:ILE:HG23	2.53	0.44
8:H:65:PHE:CZ	8:H:85:ALA:HB3	2.52	0.44
8:H:81:VAL:HG13	8:H:81:VAL:O	2.18	0.44
11:K:76:ASN:HB3	11:K:91:ARG:HB3	2.00	0.44
12:L:77:ILE:HG13	13:M:63:SER:OG	2.17	0.44
1:A:683:LYS:HZ1	1:A:741:ASN:HD22	1.65	0.44
1:A:818:LEU:C	1:A:840:TYR:CE2	2.89	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:894:PHE:CG	1:A:972:TRP:CH2	3.06	0.44
1:A:1016:PHE:CD2	1:A:1069:TYR:CD1	3.06	0.44
1:A:1045:LEU:C	1:A:1045:LEU:CD1	2.86	0.44
1:A:1422:SER:O	1:A:1486:HIS:CD2	2.70	0.44
1:A:1511:TRP:N	1:A:1574:LEU:HD13	2.33	0.44
1:A:3102:LEU:HD23	1:A:3451:THR:HG23	2.00	0.44
1:A:3114:GLU:HB2	1:A:3436:ILE:HG21	2.00	0.44
1:A:3284:MET:N	1:A:3284:MET:SD	2.90	0.44
1:A:3307:GLU:N	1:A:3308:PRO:CD	2.80	0.44
2:B:659:THR:HA	2:B:755:ILE:HG22	2.00	0.44
2:B:1467:PHE:HD1	2:B:1470:LEU:HD21	1.83	0.44
2:B:2150:THR:HG22	2:B:2203:ASN:HD22	1.82	0.44
2:B:2260:TRP:HB3	2:B:2300:ARG:HB2	2.00	0.44
2:B:3327:ALA:CA	2:B:3334:SER:HB2	2.48	0.44
3:C:442:ILE:O	3:C:443:THR:C	2.49	0.44
3:C:2532:GLU:N	3:C:2533:PRO:HD2	2.32	0.44
5:E:74:SER:HB2	9:I:56:ILE:HB	2.00	0.44
6:F:62:VAL:HG11	7:G:106:LEU:CD1	2.48	0.44
7:G:99:ILE:HG23	7:G:103:ILE:CD1	2.47	0.44
10:J:61:ALA:HB2	10:J:80:PHE:HZ	1.57	0.44
10:J:86:CYS:HB2	11:K:61:VAL:CG1	2.28	0.44
1:A:655:PHE:CZ	1:A:659:TRP:CD1	3.05	0.44
1:A:695:LEU:C	1:A:695:LEU:CD2	2.85	0.44
1:A:769:THR:O	1:A:769:THR:HG22	2.18	0.44
1:A:801:ILE:O	1:A:806:ILE:HG22	2.18	0.44
1:A:802:ILE:HA	1:A:806:ILE:HG22	1.98	0.44
1:A:1548:TRP:CD1	1:A:1548:TRP:O	2.70	0.44
1:A:1639:PHE:CD1	1:A:1653:ILE:HG12	2.53	0.44
1:A:2663:LYS:HB3	1:A:2768:GLN:HE22	1.82	0.44
1:A:3216:GLU:HB3	1:A:3217:SER:H	1.56	0.44
1:A:3249:ILE:CD1	1:A:3274:ASP:N	2.63	0.44
1:A:3991:LEU:HB2	1:A:4094:THR:HG22	2.00	0.44
2:B:349:ASN:HA	2:B:416:LEU:HD22	1.88	0.44
2:B:2188:SER:O	20:B:5601:ATP:PB	2.76	0.44
2:B:2441:LEU:O	2:B:2445:GLY:N	2.50	0.44
2:B:2591:ASN:HD22	2:B:2644:PHE:HB2	1.83	0.44
2:B:3243:LYS:CD	2:B:3285:ASN:O	2.66	0.44
3:C:90:ILE:CD1	3:C:96:LEU:HD23	2.48	0.44
3:C:161:PHE:O	3:C:161:PHE:CD1	2.70	0.44
3:C:259:PRO:HB3	3:C:264:TRP:CH2	2.53	0.44
3:C:341:TRP:CE3	3:C:341:TRP:O	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3034:LEU:HB3	3:C:3041:ILE:HG22	2.00	0.44
3:C:3600:MET:HB3	3:C:3630:MET:CE	2.48	0.44
4:D:294:GLN:NE2	4:D:297:LYS:NZ	2.60	0.44
5:E:185:ARG:HB2	5:E:188:GLN:HB2	1.98	0.44
10:J:38:GLU:CD	15:O:29:PHE:CD2	2.49	0.44
12:L:9:GLY:O	12:L:13:GLU:CD	2.56	0.44
12:L:14:GLU:HA	12:L:15:PRO:HD3	1.79	0.44
1:A:729:GLU:OE1	1:A:781:LEU:HD13	2.17	0.43
1:A:945:ASN:HB3	1:A:950:GLU:OE2	2.18	0.43
1:A:1163:LEU:C	1:A:1163:LEU:CD2	2.85	0.43
1:A:1273:PHE:C	1:A:1275:LEU:H	2.20	0.43
1:A:2357:VAL:HA	1:A:2360:ILE:HD12	2.00	0.43
1:A:2839:LEU:HD13	19:A:4901:ADP:C4	2.52	0.43
2:B:1230:MET:CE	2:B:1266:VAL:C	2.86	0.43
2:B:1681:ALA:HB3	2:B:1684:HIS:HB3	1.99	0.43
2:B:3267:ILE:CG2	2:B:3267:ILE:O	2.66	0.43
3:C:7:TRP:CE3	3:C:352:LEU:HB3	2.53	0.43
3:C:12:GLN:HG3	3:C:69:TRP:HE1	1.83	0.43
3:C:90:ILE:HD11	3:C:96:LEU:HD21	2.00	0.43
3:C:229:ILE:HD11	3:C:301:TRP:NE1	2.31	0.43
3:C:327:PHE:CE2	3:C:336:ILE:HB	2.52	0.43
3:C:2416:LEU:HD23	3:C:2417:PHE:N	2.32	0.43
3:C:2726:THR:C	3:C:2729:LEU:HG	2.37	0.43
3:C:2927:ASP:CB	3:C:2974:ILE:HD13	2.45	0.43
4:D:216:HIS:CA	4:D:217:GLN:N	2.78	0.43
4:D:334:LEU:HD23	4:D:334:LEU:HA	1.86	0.43
4:D:394:LYS:HG3	4:D:394:LYS:O	2.18	0.43
5:E:112:LEU:HD21	6:F:97:MET:CE	2.43	0.43
5:E:156:GLU:HG3	5:E:157:LYS:HG2	2.00	0.43
5:E:237:ASN:N	5:E:237:ASN:ND2	2.66	0.43
11:K:44:SER:HB2	11:K:48:LYS:NZ	2.32	0.43
14:N:116:ALA:HB1	15:O:131:PHE:CE1	2.48	0.43
1:A:402:PRO:CA	1:A:467:ILE:O	2.62	0.43
1:A:1013:VAL:CA	1:A:1016:PHE:CE1	2.91	0.43
1:A:1100:LEU:HD22	1:A:1163:LEU:CB	2.46	0.43
1:A:1271:ASN:O	4:D:165:LYS:HB3	2.18	0.43
1:A:1274:GLY:HA3	4:D:164:ASN:OD1	2.15	0.43
1:A:2866:VAL:HG11	1:A:3026:TRP:CH2	2.53	0.43
1:A:2925:THR:HG22	1:A:3000:CYS:HB2	2.00	0.43
1:A:3544:LYS:HE3	1:A:3545:LEU:HD13	1.99	0.43
1:A:4042:ILE:HD12	1:A:4042:ILE:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4046:CYS:HB2	1:A:4076:CYS:HB3	1.99	0.43
2:B:500:GLU:OE1	2:B:535:ILE:CG1	2.60	0.43
2:B:516:THR:CG2	5:E:406:LYS:HA	2.46	0.43
2:B:694:VAL:HB	2:B:695:PRO:HD2	2.00	0.43
2:B:965:ILE:N	2:B:965:ILE:CD1	2.81	0.43
2:B:1441:GLU:O	2:B:1445:LYS:HG3	2.19	0.43
2:B:2190:LYS:CE	20:B:5601:ATP:PB	3.05	0.43
2:B:4206:ARG:CZ	2:B:4573:ILE:HG22	2.49	0.43
2:B:4546:PRO:HB2	2:B:4548:TYR:CE2	2.53	0.43
3:C:22:SER:HB3	3:C:341:TRP:HB3	2.01	0.43
3:C:53:PRO:O	3:C:53:PRO:CD	2.67	0.43
3:C:264:TRP:HB2	3:C:296:ILE:HD12	1.99	0.43
3:C:1047:LEU:HG	3:C:1111:LEU:HD11	2.00	0.43
3:C:2357:LEU:C	3:C:2357:LEU:HD13	2.38	0.43
3:C:2743:ASN:HD21	3:C:2786:ASN:HA	1.83	0.43
3:C:3792:ILE:HD12	3:C:3801:ASN:HD22	1.83	0.43
4:D:68:GLU:CG	5:E:12:LYS:C	2.87	0.43
4:D:286:ILE:CG2	4:D:287:TRP:CZ3	3.01	0.43
4:D:564:ASP:OD2	4:D:583:LYS:CE	2.67	0.43
5:E:63:THR:HB	10:J:99:TYR:OH	2.17	0.43
5:E:71:ARG:O	8:H:68:PHE:HA	2.18	0.43
6:F:65:ARG:HH11	6:F:65:ARG:HG3	1.82	0.43
8:H:12:LYS:HE2	8:H:80:TYR:CE2	2.53	0.43
8:H:60:ILE:CD1	9:I:78:ILE:CG1	2.91	0.43
11:K:28:GLN:HG3	11:K:49:PHE:CD1	2.53	0.43
14:N:68:CYS:HB2	14:N:113:PHE:HB2	2.00	0.43
15:O:72:LYS:C	15:O:72:LYS:CD	2.85	0.43
15:O:121:TYR:O	15:O:121:TYR:CG	2.70	0.43
16:P:14:THR:H	16:P:18:HIS:CB	2.31	0.43
1:A:598:ARG:NH2	4:D:546:VAL:HG12	2.26	0.43
1:A:1033:GLU:HB3	1:A:1037:LYS:HE3	2.00	0.43
1:A:1190:LEU:C	1:A:1190:LEU:CD2	2.85	0.43
1:A:1440:TRP:NE1	1:A:1474:ASP:OD2	2.48	0.43
1:A:1637:VAL:HG13	1:A:1653:ILE:CG2	2.46	0.43
1:A:3250:PRO:O	1:A:3250:PRO:CD	2.65	0.43
1:A:4109:PHE:HA	1:A:4113:ILE:HB	1.99	0.43
2:B:973:THR:HG21	3:C:343:ASN:CA	2.48	0.43
2:B:1046:ASN:N	2:B:1049:LEU:HD12	2.32	0.43
2:B:1492:LYS:HE3	2:B:3606:GLN:OE1	1.70	0.43
2:B:1571:GLU:HA	2:B:1571:GLU:OE2	2.17	0.43
2:B:2214:ASN:HD21	2:B:2622:GLN:HB3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3499:THR:HG21	2:B:3507:TRP:HH2	1.82	0.43
3:C:142:ALA:N	3:C:143:PRO:CD	2.81	0.43
3:C:319:ARG:HB2	3:C:321:ARG:HE	1.83	0.43
4:D:172:GLU:OE2	12:L:55:LEU:CG	2.66	0.43
5:E:12:LYS:HB3	5:E:13:GLU:H	1.47	0.43
5:E:26:ARG:HD2	14:N:97:LEU:HD23	2.00	0.43
5:E:418:SER:HB2	5:E:426:PHE:CE1	2.51	0.43
5:E:428:VAL:O	5:E:428:VAL:HG23	2.18	0.43
6:F:102:LEU:HB3	6:F:106:ALA:HB3	2.00	0.43
8:H:11:ILE:HD12	8:H:14:SER:HB3	2.00	0.43
10:J:90:HIS:HB3	10:J:108:TYR:HB2	2.00	0.43
13:M:6:GLU:HG3	13:M:6:GLU:O	2.18	0.43
14:N:99:GLN:HA	14:N:99:GLN:OE1	2.19	0.43
15:O:121:TYR:O	15:O:121:TYR:CD1	2.70	0.43
16:P:23:TYR:C	16:P:96:GLY:HA2	2.38	0.43
16:P:39:TRP:C	16:P:40:SER:CB	2.86	0.43
1:A:670:LEU:N	1:A:692:ILE:HD11	2.33	0.43
1:A:845:THR:HG22	1:A:965:CYS:HA	2.01	0.43
1:A:1013:VAL:CA	1:A:1076:LEU:HD11	2.49	0.43
1:A:1452:LYS:HG3	1:A:1458:MET:O	2.18	0.43
1:A:1540:GLN:O	1:A:1544:ILE:N	2.43	0.43
1:A:1634:ILE:HD11	1:A:1637:VAL:HG22	2.00	0.43
1:A:1828:THR:HG21	1:A:1860:GLN:HE21	1.83	0.43
1:A:3212:VAL:CG1	1:A:3335:TRP:CE2	3.01	0.43
1:A:3999:THR:HG21	1:A:4044:GLN:HE21	1.83	0.43
2:B:555:LEU:CD2	2:B:625:LEU:HB3	2.49	0.43
2:B:902:ILE:HG23	2:B:915:PRO:CD	2.48	0.43
2:B:903:ARG:HB3	2:B:914:ASP:OD1	2.11	0.43
2:B:938:PHE:CD2	2:B:956:LEU:CD1	2.96	0.43
2:B:939:ASN:ND2	2:B:939:ASN:O	2.51	0.43
2:B:3774:SER:HB3	2:B:4090:ASP:HB3	1.99	0.43
2:B:4041:LEU:HB3	2:B:4044:ILE:HD11	2.00	0.43
2:B:4044:ILE:HG13	2:B:4076:LEU:HB2	2.00	0.43
3:C:114:LEU:C	3:C:114:LEU:CD1	2.85	0.43
3:C:146:ARG:CB	3:C:165:GLY:HA3	2.48	0.43
3:C:2708:GLN:HG2	3:C:2809:ALA:HB1	2.00	0.43
3:C:2743:ASN:HD21	3:C:2786:ASN:CA	2.31	0.43
4:D:265:ARG:HD3	5:E:125:GLN:CA	2.48	0.43
10:J:28:TRP:N	10:J:29:PRO:CD	2.81	0.43
10:J:84:PHE:HB2	11:K:63:GLY:HA3	2.01	0.43
14:N:70:THR:HA	15:O:99:SER:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:15:SER:H	16:P:18:HIS:CB	2.31	0.43
1:A:739:ARG:HE	1:A:743:LYS:HE3	1.82	0.43
1:A:1149:ILE:HG21	1:A:1187:TRP:CE2	2.54	0.43
1:A:3533:PRO:CD	1:A:3648:THR:HG22	2.49	0.43
1:A:3975:ILE:HA	1:A:3978:ILE:HD12	2.00	0.43
2:B:447:THR:HA	5:E:443:GLN:HB3	2.00	0.43
2:B:500:GLU:HB3	2:B:532:THR:HG21	2.00	0.43
2:B:1101:PHE:CD1	2:B:1102:LEU:HG	2.54	0.43
2:B:3785:ALA:HB2	2:B:3807:THR:HG21	1.99	0.43
3:C:968:MET:HB2	3:C:1026:PHE:CZ	2.53	0.43
3:C:2581:LEU:HD12	3:C:2937:TYR:CZ	2.51	0.43
3:C:2703:LYS:N	3:C:2703:LYS:CD	2.81	0.43
4:D:105:MET:HE3	14:N:51:ILE:HD12	1.97	0.43
4:D:332:TYR:CZ	4:D:340:PRO:HG3	2.53	0.43
5:E:99:ILE:CG2	6:F:33:LEU:CD1	2.85	0.43
6:F:61:LYS:HD2	8:H:33:ASP:O	2.17	0.43
9:I:70:LYS:HB3	9:I:71:PHE:CD1	2.54	0.43
14:N:66:LYS:HG3	14:N:117:VAL:HG23	1.99	0.43
18:R:105:THR:C	18:R:107:SER:N	2.70	0.43
1:A:57:TYR:CB	1:A:103:ASP:HA	2.48	0.43
1:A:604:ALA:HB2	1:A:698:GLU:CG	2.49	0.43
1:A:805:ARG:NH2	5:E:152:LEU:HD12	2.33	0.43
1:A:879:LEU:HB2	1:A:882:GLU:CG	2.47	0.43
1:A:1458:MET:HE3	1:A:1548:TRP:HE1	1.84	0.43
1:A:2171:THR:HG21	1:A:2183:ILE:CG2	2.48	0.43
1:A:3273:TYR:CD1	1:A:3276:SER:CA	3.01	0.43
1:A:3824:ILE:HD13	1:A:3952:LEU:HG	2.00	0.43
2:B:412:LEU:CD1	2:B:412:LEU:C	2.86	0.43
2:B:913:PHE:HE1	2:B:987:ARG:CZ	2.31	0.43
2:B:946:ARG:HA	2:B:955:PHE:HZ	1.70	0.43
2:B:1100:ASP:HA	2:B:1103:VAL:HB	2.00	0.43
2:B:1140:LEU:HD21	2:B:1201:TYR:OH	2.18	0.43
2:B:1521:VAL:O	2:B:1525:TRP:N	2.31	0.43
2:B:2269:PRO:HD2	2:B:2615:TYR:CE1	2.54	0.43
3:C:1541:LEU:CD1	3:C:1584:LEU:HD22	2.49	0.43
3:C:1605:ARG:HB2	3:C:1636:ILE:HG21	2.01	0.43
3:C:2743:ASN:ND2	3:C:2785:VAL:C	2.72	0.43
4:D:61:LEU:HD22	4:D:74:MET:HE1	2.01	0.43
4:D:173:CYS:O	13:M:62:GLY:HA2	2.19	0.43
4:D:184:GLY:N	11:K:69:TYR:CD1	2.86	0.43
6:F:81:THR:HA	7:G:124:VAL:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:120:THR:N	9:I:12:ILE:HG21	2.33	0.43
18:R:98:MET:C	18:R:100:GLY:N	2.70	0.43
1:A:330:GLY:O	1:A:380:ARG:HA	2.18	0.43
1:A:871:LEU:CD2	1:A:875:VAL:HG12	2.45	0.43
1:A:1273:PHE:C	1:A:1275:LEU:N	2.72	0.43
1:A:1444:GLN:C	1:A:1561:VAL:HG22	2.09	0.43
1:A:1452:LYS:HZ1	1:A:1459:LEU:HD21	1.84	0.43
1:A:3083:ARG:NH2	1:A:3630:ALA:O	2.51	0.43
1:A:3538:GLN:HA	1:A:3541:ILE:HG22	2.00	0.43
1:A:3853:GLY:HA3	1:A:3879:ALA:HB2	2.00	0.43
1:A:3897:PRO:HA	1:A:3900:ILE:HG22	2.01	0.43
1:A:4534:CYS:SG	1:A:4535:LYS:N	2.92	0.43
2:B:601:GLU:HB2	2:B:602:PRO:HD3	2.00	0.43
2:B:749:LYS:N	2:B:750:PRO:CD	2.82	0.43
2:B:3258:VAL:HG12	2:B:3313:ILE:HD12	2.01	0.43
3:C:159:TYR:N	3:C:159:TYR:CD2	2.86	0.43
3:C:872:ARG:NH2	3:C:896:LYS:HA	2.32	0.43
3:C:2402:LEU:O	3:C:2406:CYS:SG	2.74	0.43
3:C:2593:ARG:HD2	3:C:2921:LEU:HD11	2.01	0.43
3:C:2923:LEU:HG	3:C:2966:SER:N	2.34	0.43
3:C:3499:ALA:HB1	3:C:3502:ALA:HB3	1.99	0.43
4:D:162:LEU:C	4:D:162:LEU:CD2	2.85	0.43
4:D:201:GLN:OE1	9:I:102:ASN:HB2	2.13	0.43
5:E:47:PHE:CA	12:L:88:PHE:CE2	3.02	0.43
5:E:70:ASP:HB3	8:H:68:PHE:HE1	1.83	0.43
5:E:119:CYS:HB2	6:F:88:ILE:CD1	2.47	0.43
5:E:152:LEU:HD22	5:E:486:THR:HG22	2.01	0.43
5:E:361:LEU:C	5:E:361:LEU:CD1	2.85	0.43
6:F:65:ARG:HG3	6:F:65:ARG:NH1	2.34	0.43
8:H:59:CYS:O	9:I:85:TYR:CA	2.66	0.43
12:L:77:ILE:N	12:L:77:ILE:CD1	2.81	0.43
1:A:642:ASN:O	1:A:646:LYS:HG3	2.19	0.43
1:A:3335:TRP:CZ3	1:A:3339:ILE:HD11	2.31	0.43
2:B:520:ARG:HD3	2:B:547:LEU:CD2	2.49	0.43
2:B:555:LEU:HG	2:B:625:LEU:HD21	2.00	0.43
2:B:673:PHE:CD1	2:B:677:LEU:HD13	2.45	0.43
2:B:801:ILE:HG22	2:B:802:ILE:HG13	2.00	0.43
2:B:865:VAL:HG21	3:C:169:TYR:HB3	2.00	0.43
2:B:1058:LYS:CB	2:B:1166:GLU:CG	2.94	0.43
2:B:1129:ALA:O	2:B:1132:GLU:HG3	2.18	0.43
2:B:1611:PHE:HE1	2:B:1925:PHE:HZ	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3150:VAL:HA	2:B:3707:LEU:HD21	2.01	0.43
2:B:3236:LYS:N	2:B:3237:PRO:CD	2.82	0.43
3:C:124:PRO:HB3	3:C:185:PHE:CE1	2.53	0.43
3:C:294:LEU:C	3:C:294:LEU:CD2	2.86	0.43
3:C:859:ILE:CB	3:C:864:MET:SD	3.07	0.43
4:D:303:CYS:HB2	4:D:353:LEU:HD22	2.00	0.43
4:D:439:ILE:HG12	4:D:472:PHE:HZ	1.83	0.43
5:E:26:ARG:O	14:N:98:ILE:HD12	2.18	0.43
10:J:26:VAL:HG21	10:J:98:PHE:HB3	1.96	0.43
10:J:48:LEU:HD22	10:J:53:ILE:CG1	2.44	0.43
11:K:38:PHE:HB3	11:K:41:LYS:HB2	2.01	0.43
14:N:61:LEU:HD12	14:N:61:LEU:O	2.19	0.43
1:A:853:VAL:HG11	5:E:206:ASN:CB	2.48	0.43
1:A:1041:ASN:HB3	1:A:1047:ASN:ND2	2.34	0.43
1:A:1430:ARG:HG3	1:A:1490:PHE:CE2	2.53	0.43
1:A:1537:GLN:NE2	1:A:1587:MET:HB3	2.34	0.43
1:A:1634:ILE:HD11	1:A:1637:VAL:CG2	2.48	0.43
1:A:2162:GLY:HA2	20:A:4801:ATP:PA	2.58	0.43
1:A:2311:ARG:NH1	1:A:2319:GLU:OE1	2.51	0.43
1:A:3124:ILE:CD1	1:A:3429:TRP:NE1	2.80	0.43
1:A:3294:GLU:HA	1:A:3294:GLU:OE2	2.19	0.43
1:A:3317:PHE:HA	1:A:3333:LEU:CD1	2.48	0.43
2:B:444:LEU:HD13	2:B:523:LEU:HG	2.00	0.43
2:B:804:ARG:NH2	2:B:899:LEU:HB3	2.34	0.43
2:B:1002:GLN:HG2	2:B:1094:TRP:HE1	1.84	0.43
2:B:1936:MET:HG2	2:B:1966:VAL:HG22	2.00	0.43
2:B:3121:LEU:C	2:B:3121:LEU:CD1	2.85	0.43
3:C:2079:ILE:HD12	3:C:2124:VAL:HG11	2.01	0.43
3:C:2726:THR:CG2	3:C:2757:LEU:HD13	2.49	0.43
3:C:2740:ILE:CG2	3:C:2744:LYS:CD	2.96	0.43
4:D:94:ARG:HG3	4:D:94:ARG:O	2.18	0.43
4:D:163:ARG:HH11	12:L:73:GLU:CD	2.23	0.43
4:D:208:TYR:CZ	9:I:22:LYS:HB2	2.52	0.43
4:D:257:GLN:OE1	4:D:257:GLN:HA	2.18	0.43
4:D:552:PRO:CG	4:D:597:TYR:HA	2.49	0.43
4:D:564:ASP:HB2	4:D:583:LYS:HE2	2.01	0.43
5:E:112:LEU:CD2	5:E:112:LEU:C	2.85	0.43
5:E:320:THR:HG22	5:E:320:THR:O	2.19	0.43
5:E:378:GLN:CB	5:E:422:SER:HB3	2.43	0.43
6:F:48:ILE:HD11	6:F:98:LEU:HD23	0.44	0.43
7:G:112:SER:HA	7:G:115:ARG:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:688:PHE:HB3	1:A:727:TYR:CE2	2.54	0.43
1:A:1212:LEU:C	1:A:1212:LEU:CD2	2.86	0.43
1:A:1548:TRP:CD1	1:A:1548:TRP:C	2.92	0.43
1:A:3106:LYS:CD	1:A:3443:LEU:HD11	2.48	0.43
1:A:3921:ILE:HG23	1:A:3922:PRO:HD2	1.99	0.43
1:A:4053:MET:HA	1:A:4056:ILE:HG22	2.01	0.43
2:B:425:ASP:HB3	2:B:489:PHE:CZ	2.54	0.43
2:B:555:LEU:HD21	2:B:626:TYR:N	2.33	0.43
2:B:695:PRO:HG2	2:B:698:ALA:HB3	2.01	0.43
2:B:1498:TYR:C	2:B:1500:ARG:H	2.21	0.43
2:B:2185:PRO:HG3	2:B:2326:GLU:HB3	1.99	0.43
2:B:3080:LEU:HD12	2:B:3484:LYS:HE2	2.01	0.43
2:B:3422:LEU:HD12	2:B:3716:LEU:CD1	2.48	0.43
2:B:4458:ILE:HD12	2:B:4489:GLU:HA	2.01	0.43
3:C:50:LYS:HG2	3:C:103:THR:HB	2.01	0.43
3:C:143:PRO:HB3	3:C:160:ILE:HD11	2.00	0.43
3:C:2849:VAL:O	3:C:2853:GLU:HG3	2.19	0.43
4:D:183:ARG:CB	11:K:72:TYR:HE2	2.32	0.43
5:E:53:ILE:HG21	12:L:81:ASN:HD21	1.83	0.43
5:E:116:VAL:HG11	6:F:97:MET:HE1	1.78	0.43
5:E:439:TYR:CD1	5:E:443:GLN:HA	2.54	0.43
12:L:73:GLU:HB2	13:M:66:ILE:HD12	1.89	0.43
1:A:669:ALA:HB2	1:A:689:ASP:OD2	2.18	0.42
1:A:770:LEU:HD22	1:A:774:SER:HB3	2.00	0.42
1:A:1514:VAL:HG13	1:A:1581:LEU:CD1	2.49	0.42
1:A:1638:THR:CG2	1:A:1655:GLN:NE2	2.30	0.42
1:A:1896:THR:HG21	1:A:1910:ILE:HD13	1.99	0.42
1:A:2723:ILE:HG21	1:A:2776:LYS:HE2	2.00	0.42
1:A:2855:ILE:HG21	1:A:2863:GLY:CA	2.49	0.42
1:A:3110:LEU:HD13	1:A:3440:LYS:HA	2.00	0.42
1:A:4321:GLN:HB2	1:A:4393:ILE:HD12	2.00	0.42
2:B:725:ILE:HG21	2:B:776:LEU:HD21	2.01	0.42
2:B:726:LYS:C	2:B:726:LYS:CD	2.85	0.42
2:B:956:LEU:O	2:B:960:ARG:HG3	2.19	0.42
2:B:1603:LYS:HB3	2:B:1610:TYR:CE1	2.54	0.42
2:B:2058:LEU:HB2	2:B:2129:LEU:HD11	2.01	0.42
2:B:3210:SER:CB	2:B:3364:ASN:OD1	2.51	0.42
2:B:3288:GLN:NE2	2:B:3288:GLN:CA	2.80	0.42
3:C:172:LEU:CD1	3:C:173:ALA:O	2.66	0.42
3:C:972:LEU:HD21	3:C:1017:MET:SD	2.59	0.42
3:C:973:LYS:HA	3:C:976:ILE:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2246:ARG:CD	3:C:2344:ARG:HG2	2.49	0.42
3:C:3588:VAL:O	3:C:3588:VAL:HG12	2.18	0.42
3:C:3588:VAL:HG11	3:C:3621:TRP:CD2	2.55	0.42
4:D:164:ASN:N	4:D:167:ASN:HB3	2.33	0.42
4:D:599:ASP:HB3	4:D:600:PRO:HD2	2.01	0.42
5:E:117:GLU:HG2	5:E:121:TYR:CE2	2.53	0.42
5:E:203:LEU:C	5:E:203:LEU:CD2	2.85	0.42
5:E:448:PHE:HE1	5:E:450:HIS:HB2	1.83	0.42
9:I:78:ILE:HD11	9:I:106:LEU:HB3	1.97	0.42
10:J:40:ALA:HB1	10:J:68:MET:HE3	2.01	0.42
11:K:5:ALA:CB	11:K:81:TYR:HB2	2.49	0.42
14:N:115:MET:HE3	15:O:80:LYS:HB3	2.01	0.42
15:O:22:LEU:HD12	15:O:22:LEU:C	2.39	0.42
1:A:889:TYR:CD2	7:G:12:SER:CB	3.02	0.42
1:A:952:GLN:NE2	1:A:1010:LYS:HZ2	2.17	0.42
1:A:1013:VAL:CG1	1:A:1016:PHE:HE1	2.32	0.42
1:A:3125:GLN:NE2	1:A:3125:GLN:C	2.73	0.42
1:A:3285:ASN:OD1	1:A:3288:LYS:HD2	2.18	0.42
1:A:4121:VAL:HB	1:A:4126:TRP:CG	2.54	0.42
2:B:444:LEU:C	5:E:515:LYS:CB	2.87	0.42
2:B:544:HIS:O	2:B:548:LEU:HG	2.19	0.42
2:B:579:PHE:HA	5:E:430:ARG:HH12	1.83	0.42
2:B:582:MET:SD	2:B:587:GLY:HA3	2.58	0.42
2:B:815:ASP:HB3	2:B:819:LYS:HE3	2.01	0.42
2:B:830:LYS:HA	2:B:943:THR:HB	2.00	0.42
2:B:864:ASN:CB	2:B:947:LEU:HB2	2.33	0.42
2:B:2815:ALA:HB1	2:B:2817:PRO:HD2	2.01	0.42
3:C:90:ILE:HA	3:C:153:PHE:CZ	2.54	0.42
3:C:94:LYS:HG2	3:C:115:LYS:HE2	2.01	0.42
3:C:207:MET:HE3	3:C:214:LEU:HB3	2.00	0.42
3:C:232:TYR:HB2	3:C:239:TRP:HB3	2.01	0.42
3:C:268:ILE:HG12	3:C:301:TRP:CH2	2.54	0.42
3:C:2589:LEU:HD11	3:C:2925:VAL:HG22	2.00	0.42
3:C:2697:ALA:HB1	3:C:2815:SER:O	2.19	0.42
3:C:4000:ARG:HG3	3:C:4021:TYR:HB3	2.00	0.42
4:D:541:LEU:HD12	4:D:545:VAL:CG2	2.47	0.42
5:E:59:HIS:H	10:J:90:HIS:CD2	2.38	0.42
5:E:105:PHE:O	5:E:105:PHE:CD1	2.72	0.42
5:E:162:ARG:HH12	5:E:196:GLN:H	1.66	0.42
5:E:266:THR:HG1	5:E:283:SER:HA	1.80	0.42
5:E:367:LEU:N	5:E:367:LEU:HD23	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:384:LEU:HG	5:E:417:TRP:CD1	2.53	0.42
5:E:439:TYR:HD1	5:E:443:GLN:HA	1.85	0.42
11:K:81:TYR:CE2	11:K:86:ALA:HB2	2.55	0.42
12:L:93:LEU:CD1	12:L:108:PHE:HB3	2.45	0.42
13:M:5:PRO:HG3	13:M:77:ILE:HG13	2.00	0.42
13:M:20:VAL:HG21	13:M:73:ILE:HD13	2.01	0.42
13:M:53:TRP:CZ3	13:M:86:LYS:HD2	2.51	0.42
1:A:604:ALA:HB2	1:A:698:GLU:HB3	2.01	0.42
1:A:907:ASN:C	1:A:911:TYR:HD2	2.23	0.42
1:A:1142:ILE:HD13	1:A:1190:LEU:CD2	2.47	0.42
1:A:3895:GLU:O	1:A:3899:LEU:HD13	2.19	0.42
2:B:730:LEU:HB2	2:B:733:GLU:HG3	2.01	0.42
2:B:2885:ASN:HD22	2:B:3018:VAL:HB	1.84	0.42
2:B:3133:ILE:CG1	2:B:3440:LEU:HD13	2.48	0.42
2:B:3658:ILE:HD11	2:B:3748:ARG:HD2	2.00	0.42
2:B:4187:ILE:O	2:B:4212:LEU:HD21	2.19	0.42
2:B:4230:ILE:HG23	2:B:4233:LYS:HB2	2.01	0.42
3:C:1552:LEU:HD21	3:C:1600:GLN:HG2	2.02	0.42
3:C:2152:PHE:CZ	3:C:2192:HIS:CE1	3.08	0.42
3:C:2578:PHE:CZ	3:C:2582:ILE:HD11	2.54	0.42
3:C:2740:ILE:CB	3:C:2744:LYS:O	2.54	0.42
3:C:3874:THR:O	3:C:3878:VAL:HG23	2.20	0.42
4:D:87:THR:HG22	4:D:98:THR:HA	2.00	0.42
4:D:509:ASN:ND2	4:D:512:HIS:HB3	2.34	0.42
5:E:58:GLU:OE2	10:J:89:VAL:HG22	2.19	0.42
5:E:334:LEU:HD12	5:E:334:LEU:HA	1.87	0.42
6:F:50:ALA:CB	8:H:83:GLN:HB3	2.49	0.42
10:J:86:CYS:CB	11:K:61:VAL:HG13	2.28	0.42
13:M:77:ILE:HG22	13:M:80:LEU:HD22	2.00	0.42
1:A:837:GLN:NE2	1:A:958:ALA:CA	2.83	0.42
1:A:1433:LEU:HD22	1:A:1478:LEU:CD2	2.50	0.42
1:A:1597:LYS:HG2	1:A:1916:GLN:HE22	1.83	0.42
1:A:2013:ALA:HB2	1:A:2020:ILE:HD13	2.00	0.42
1:A:3191:LYS:HD2	1:A:3360:GLU:HA	2.01	0.42
1:A:3222:GLU:HB2	1:A:3328:ALA:HB1	2.01	0.42
2:B:433:ILE:HG12	2:B:463:PHE:HE1	1.85	0.42
2:B:1102:LEU:HD23	2:B:1105:GLN:CB	2.50	0.42
2:B:1154:GLU:N	2:B:1155:PRO:HD2	2.33	0.42
2:B:2040:LEU:HD13	2:B:2083:LEU:HD22	2.00	0.42
2:B:2260:TRP:CD1	2:B:2302:ILE:HD12	2.54	0.42
2:B:2666:ARG:NH2	20:B:5601:ATP:O3G	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3902:TYR:O	2:B:3934:ARG:NH1	2.53	0.42
2:B:4017:LEU:HD12	2:B:4044:ILE:HA	2.01	0.42
3:C:7:TRP:CZ3	3:C:352:LEU:HD12	2.54	0.42
3:C:197:PRO:HB2	3:C:200:ARG:NH1	2.34	0.42
3:C:2772:LYS:C	3:C:2772:LYS:CD	2.86	0.42
3:C:2787:ILE:HG23	3:C:2788:VAL:N	2.35	0.42
3:C:2937:TYR:O	3:C:2941:PHE:CD1	2.73	0.42
3:C:4000:ARG:NH1	3:C:4001:ASN:OD1	2.52	0.42
3:C:4113:VAL:HG12	3:C:4114:PRO:HD2	2.01	0.42
4:D:109:PHE:CZ	15:O:121:TYR:CD2	3.03	0.42
4:D:199:ILE:CG2	9:I:104:ALA:CB	2.85	0.42
4:D:458:CYS:HB2	4:D:477:GLU:HB3	2.02	0.42
4:D:537:ILE:HD11	4:D:651:LYS:CD	2.48	0.42
5:E:46:ASN:CB	12:L:90:ALA:HA	2.49	0.42
5:E:55:GLU:HB2	10:J:92:LYS:HG3	2.01	0.42
5:E:121:TYR:CZ	6:F:17:LEU:CD2	3.03	0.42
5:E:286:GLY:CA	5:E:318:GLY:HA2	2.48	0.42
6:F:48:ILE:CD1	6:F:98:LEU:HD22	2.31	0.42
6:F:62:VAL:HG13	6:F:66:ASP:HB2	2.01	0.42
9:I:30:MET:HB3	9:I:35:LEU:CD2	2.50	0.42
9:I:50:SER:HA	9:I:54:LEU:HD12	2.00	0.42
12:L:86:LEU:HD21	13:M:56:ILE:HG12	2.01	0.42
15:O:35:GLN:HA	15:O:38:ILE:HG12	2.01	0.42
17:Q:5:THR:CB	17:Q:37:PRO:O	2.68	0.42
1:A:818:LEU:HB2	1:A:844:LYS:CG	2.45	0.42
1:A:1274:GLY:CA	4:D:164:ASN:HA	2.49	0.42
1:A:1599:PHE:HE2	1:A:1630:LEU:CD2	2.33	0.42
1:A:3117:PHE:HD2	1:A:3429:TRP:HE3	1.68	0.42
1:A:3208:ALA:HB1	1:A:3342:TYR:HB2	2.01	0.42
2:B:35:THR:HA	2:B:36:ALA:HA	1.69	0.42
2:B:224:ASP:CA	2:B:347:ILE:CB	2.96	0.42
2:B:693:GLU:N	2:B:693:GLU:OE2	2.52	0.42
2:B:725:ILE:HD12	2:B:780:VAL:CB	2.49	0.42
2:B:1075:TRP:CE3	2:B:1076:LEU:HB3	2.53	0.42
2:B:1454:GLN:C	2:B:1455:VAL:HG23	2.40	0.42
2:B:3827:LEU:HD21	2:B:4289:LEU:HB3	2.02	0.42
3:C:1281:MET:HE1	3:C:1328:LEU:HD23	2.02	0.42
3:C:2738:ILE:HD11	3:C:2740:ILE:O	2.05	0.42
4:D:288:ARG:HH21	4:D:610:GLY:HA3	1.85	0.42
4:D:297:LYS:HZ2	4:D:316:LEU:HD22	1.84	0.42
4:D:462:PHE:HA	4:D:474:VAL:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:532:TYR:CZ	4:D:652:MET:HE1	2.50	0.42
4:D:553:TYR:CE1	4:D:595:PHE:CZ	2.93	0.42
4:D:561:ALA:HB2	4:D:566:VAL:HG22	2.01	0.42
5:E:81:PRO:HG2	5:E:95:PHE:CE2	2.55	0.42
5:E:272:MET:SD	5:E:326:VAL:HG23	2.58	0.42
5:E:308:GLU:OE2	5:E:361:LEU:HD23	2.19	0.42
12:L:66:GLU:HG3	12:L:66:GLU:O	2.20	0.42
1:A:590:GLN:C	1:A:609:TRP:CH2	2.92	0.42
1:A:604:ALA:HB2	1:A:698:GLU:CD	2.40	0.42
1:A:804:ASN:CG	5:E:148:LYS:HB3	2.33	0.42
1:A:1012:LYS:CB	1:A:1071:ILE:HD12	2.39	0.42
1:A:1020:PHE:CE2	1:A:1069:TYR:CD1	3.07	0.42
1:A:1263:TYR:HE2	1:A:1280:TYR:HA	1.84	0.42
1:A:1270:GLU:CB	1:A:1277:ASN:ND2	2.82	0.42
1:A:1521:LEU:O	1:A:1541:PHE:HE2	1.98	0.42
1:A:1570:LEU:HD12	1:A:1570:LEU:N	2.32	0.42
1:A:1597:LYS:HZ1	1:A:1962:ILE:HD11	1.76	0.42
2:B:802:ILE:HD11	2:B:882:LEU:HD11	1.67	0.42
2:B:947:LEU:HD22	2:B:955:PHE:HZ	1.85	0.42
2:B:1511:VAL:N	2:B:1570:VAL:HG13	2.31	0.42
2:B:2696:LEU:HD12	2:B:2707:ALA:HB2	2.01	0.42
3:C:106:LEU:CD2	3:C:133:PRO:HB2	2.49	0.42
3:C:162:GLY:HA2	3:C:203:HIS:CE1	2.54	0.42
3:C:2738:ILE:CB	3:C:2746:PRO:CD	2.96	0.42
4:D:141:MET:SD	4:D:155:GLU:HG2	2.60	0.42
4:D:248:MET:SD	7:G:125:PHE:HE2	2.42	0.42
4:D:350:VAL:CG1	4:D:365:VAL:HG13	2.49	0.42
5:E:60:SER:HB3	10:J:87:GLN:HA	2.01	0.42
5:E:120:ILE:HG12	6:F:101:GLN:OE1	2.20	0.42
6:F:107:ILE:CG2	6:F:111:LYS:HE3	2.49	0.42
7:G:64:LEU:HD22	7:G:76:TYR:CE2	2.55	0.42
7:G:125:PHE:HZ	7:G:136:MET:HB3	1.85	0.42
10:J:40:ALA:HB1	10:J:107:MET:CE	2.50	0.42
10:J:79:PHE:CE2	11:K:68:ALA:HB3	2.55	0.42
12:L:73:GLU:CG	13:M:66:ILE:HD12	2.48	0.42
13:M:75:PHE:CZ	13:M:82:LEU:HD13	2.55	0.42
1:A:937:LEU:HD12	1:A:1081:ILE:CD1	2.50	0.42
1:A:944:LEU:HD13	1:A:1013:VAL:HG11	1.97	0.42
1:A:1126:VAL:O	1:A:1126:VAL:CG1	2.65	0.42
1:A:1926:PHE:CE2	1:A:1934:LEU:HD22	2.54	0.42
2:B:277:GLU:O	2:B:281:ALA:CB	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:551:TYR:CE2	2:B:622:VAL:HG12	2.55	0.42
2:B:809:MET:HE3	2:B:813:ASP:HB3	2.02	0.42
2:B:917:ILE:HG22	2:B:980:GLU:HG3	2.02	0.42
2:B:3928:LEU:HD13	2:B:3928:LEU:C	2.40	0.42
3:C:218:GLY:HA3	3:C:253:LEU:CD2	2.45	0.42
3:C:1017:MET:HE2	3:C:1030:VAL:HB	2.01	0.42
3:C:2213:ARG:HB3	19:C:4702:ADP:H5'2	2.02	0.42
3:C:2775:VAL:CG2	3:C:2824:TYR:CE2	2.98	0.42
3:C:2824:TYR:HA	3:C:2827:ILE:HB	2.02	0.42
3:C:3724:CYS:HB3	3:C:3764:LEU:HD11	2.01	0.42
3:C:4051:THR:HB	3:C:4108:ILE:HG23	2.01	0.42
4:D:105:MET:HE1	14:N:47:THR:CB	2.49	0.42
4:D:312:PHE:O	4:D:312:PHE:CG	2.73	0.42
4:D:460:LEU:HD12	4:D:502:ALA:HB1	2.01	0.42
4:D:526:ARG:HB2	4:D:528:TRP:CZ3	2.47	0.42
5:E:110:LYS:CA	6:F:10:GLN:HG2	2.45	0.42
5:E:179:VAL:HG11	5:E:485:VAL:HG21	2.02	0.42
5:E:429:ARG:HH21	5:E:433:TRP:HB2	1.85	0.42
7:G:78:ILE:HD13	7:G:145:LEU:HG	2.01	0.42
9:I:79:ILE:O	9:I:79:ILE:HG13	2.20	0.42
10:J:19:LYS:CE	15:O:19:LEU:HD13	2.13	0.42
10:J:38:GLU:CB	15:O:29:PHE:CZ	3.03	0.42
10:J:43:GLU:HG2	10:J:67:TYR:CG	2.55	0.42
11:K:30:LYS:HD3	11:K:30:LYS:O	2.19	0.42
11:K:33:VAL:HA	11:K:42:ILE:HD11	2.01	0.42
11:K:80:PHE:CE1	11:K:87:ILE:HB	2.55	0.42
1:A:56:TYR:C	1:A:58:GLN:H	2.23	0.42
1:A:601:PRO:HB2	1:A:698:GLU:HG2	1.89	0.42
1:A:621:ILE:HD11	1:A:640:SER:HB2	2.01	0.42
1:A:709:ILE:CG2	1:A:710:PRO:CD	2.78	0.42
1:A:1517:LEU:HB3	1:A:1581:LEU:HD22	2.02	0.42
1:A:3236:ILE:HD11	1:A:3333:LEU:HD12	1.19	0.42
2:B:298:LEU:O	2:B:302:LEU:N	2.33	0.42
2:B:433:ILE:HG23	2:B:463:PHE:CE2	2.36	0.42
2:B:786:SER:CB	2:B:843:VAL:HG22	2.50	0.42
2:B:1234:GLU:CB	2:B:1308:LEU:CB	2.83	0.42
2:B:1771:LEU:HD11	2:B:1787:ILE:HG23	2.01	0.42
2:B:3894:ALA:N	2:B:3895:PRO:HD2	2.34	0.42
2:B:4466:LEU:HD13	2:B:4466:LEU:C	2.40	0.42
3:C:96:LEU:HB3	3:C:113:ILE:HG23	2.00	0.42
3:C:338:PHE:HA	3:C:349:LEU:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1388:THR:HB	3:C:3786:ILE:HG23	2.02	0.42
3:C:2581:LEU:C	3:C:2581:LEU:CD2	2.85	0.42
3:C:2738:ILE:CG2	3:C:2746:PRO:CG	2.96	0.42
3:C:3057:ILE:HA	3:C:3101:PHE:O	2.19	0.42
3:C:3625:GLN:HA	3:C:3662:SER:OG	2.20	0.42
4:D:114:ASP:O	5:E:42:GLN:HA	2.19	0.42
4:D:360:ALA:CA	5:E:133:PHE:HZ	2.31	0.42
5:E:306:ILE:HG23	5:E:343:LEU:HD12	2.01	0.42
5:E:343:LEU:HD21	5:E:358:ARG:HG2	2.02	0.42
8:H:65:PHE:CE2	8:H:85:ALA:HB3	2.55	0.42
10:J:83:ASN:ND2	11:K:64:LYS:HD2	2.34	0.42
10:J:86:CYS:HG	11:K:61:VAL:HA	1.84	0.42
10:J:97:TYR:CD1	10:J:106:LEU:HB2	2.54	0.42
12:L:57:LEU:HD12	12:L:57:LEU:O	2.20	0.42
12:L:86:LEU:HD21	13:M:56:ILE:CG1	2.50	0.42
13:M:75:PHE:CZ	13:M:82:LEU:HD22	2.55	0.42
14:N:115:MET:HG3	15:O:129:CYS:SG	2.60	0.42
1:A:832:SER:O	1:A:836:LEU:HG	2.20	0.42
1:A:935:VAL:CG2	1:A:1017:LEU:CD2	2.89	0.42
1:A:1052:LEU:HB3	1:A:1166:TYR:CZ	2.46	0.42
1:A:1458:MET:HE2	1:A:1518:TRP:CH2	2.50	0.42
1:A:1638:THR:CG2	1:A:1655:GLN:CG	2.94	0.42
1:A:1764:LEU:HD12	1:A:1788:GLN:HG3	2.02	0.42
1:A:3192:GLU:N	1:A:3192:GLU:OE1	2.53	0.42
1:A:3273:TYR:CG	1:A:3273:TYR:O	2.73	0.42
1:A:3534:GLN:O	1:A:3536:GLN:N	2.53	0.42
1:A:4415:VAL:HG21	1:A:4438:TRP:CD1	2.55	0.42
2:B:60:ASN:CA	2:B:81:ILE:CB	2.97	0.42
2:B:609:LEU:HD22	2:B:609:LEU:H	1.85	0.42
2:B:736:LEU:HG	2:B:855:SER:O	2.20	0.42
2:B:969:LEU:HD13	3:C:341:TRP:CZ2	2.46	0.42
2:B:984:ASN:C	2:B:987:ARG:HG2	2.40	0.42
2:B:1057:LEU:HD11	2:B:1098:TYR:CD2	2.55	0.42
2:B:1122:ASP:HB2	2:B:1135:HIS:CE1	2.55	0.42
2:B:3147:GLN:HE21	2:B:3427:ALA:HB2	1.85	0.42
2:B:3269:LEU:HD13	2:B:3269:LEU:N	2.33	0.42
3:C:2669:ILE:CA	3:C:2844:LEU:CB	2.96	0.42
3:C:2688:GLN:N	3:C:2689:PRO:HD2	2.35	0.42
3:C:2723:PHE:CZ	3:C:2749:VAL:HG12	2.38	0.42
3:C:2727:ILE:HD12	3:C:2727:ILE:HA	1.94	0.42
3:C:2730:LEU:CD2	3:C:2738:ILE:HD13	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:94:ARG:CZ	13:M:78:ASN:HD21	2.27	0.42
4:D:622:LYS:CB	4:D:640:LYS:HD2	2.49	0.42
5:E:20:PHE:CD2	5:E:20:PHE:O	2.73	0.42
5:E:23:THR:CG2	14:N:88:TYR:CE1	2.99	0.42
5:E:216:SER:HB3	5:E:235:CYS:HB3	2.01	0.42
5:E:261:HIS:NE2	5:E:265:VAL:HG22	2.34	0.42
5:E:286:GLY:H	5:E:318:GLY:HA2	1.84	0.42
5:E:426:PHE:CD1	5:E:426:PHE:N	2.87	0.42
5:E:426:PHE:HD2	5:E:436:VAL:HG22	1.83	0.42
12:L:77:ILE:CD1	13:M:65:ILE:CD1	2.98	0.42
15:O:102:LEU:HD13	15:O:103:TRP:N	2.35	0.42
1:A:59:VAL:C	1:A:100:ASN:O	2.58	0.42
1:A:95:PHE:H	1:A:124:THR:CB	2.33	0.42
1:A:791:LEU:CG	1:A:795:ILE:HD11	2.50	0.42
1:A:935:VAL:CG1	1:A:944:LEU:CD2	2.98	0.42
1:A:1212:LEU:HD23	1:A:1212:LEU:O	2.19	0.42
1:A:1486:HIS:O	1:A:1489:PRO:HD2	2.20	0.42
1:A:1513:LYS:HD3	1:A:1578:ASN:HD22	1.76	0.42
1:A:3279:GLN:OE1	1:A:3279:GLN:HA	2.19	0.42
1:A:3953:ILE:N	1:A:3953:ILE:HD12	2.35	0.42
1:A:4336:ASN:HB2	1:A:4339:GLU:HB3	2.01	0.42
2:B:1511:VAL:O	2:B:1514:VAL:HG12	2.20	0.42
2:B:3139:GLY:N	2:B:3433:TRP:HZ3	2.07	0.42
4:D:184:GLY:HA3	11:K:69:TYR:CE1	2.53	0.42
4:D:518:SER:CB	4:D:528:TRP:HZ3	2.31	0.42
4:D:603:LEU:HD22	4:D:611:VAL:CG1	2.48	0.42
10:J:48:LEU:CD2	10:J:60:ILE:HD13	2.49	0.42
1:A:1396:PRO:O	1:A:1400:TYR:CA	2.68	0.41
1:A:1596:ARG:CZ	1:A:1909:LYS:HE3	2.50	0.41
1:A:3106:LYS:HB3	1:A:3443:LEU:HD21	1.97	0.41
2:B:655:LYS:CA	2:B:677:LEU:HD11	2.47	0.41
2:B:946:ARG:CA	2:B:955:PHE:CZ	2.81	0.41
2:B:3207:GLU:HG3	2:B:3367:LEU:CB	2.50	0.41
2:B:3654:GLU:OE1	2:B:3748:ARG:NH1	2.52	0.41
3:C:287:PHE:HE1	3:C:322:GLU:HB2	1.84	0.41
3:C:1171:ILE:HD11	3:C:1222:MET:SD	2.60	0.41
3:C:1397:MET:CE	3:C:3759:ILE:HD12	2.50	0.41
3:C:2666:CYS:HB2	3:C:2848:THR:N	2.34	0.41
3:C:2738:ILE:CA	3:C:2746:PRO:CG	2.28	0.41
3:C:2934:PHE:HE2	3:C:3001:ILE:HG13	1.85	0.41
3:C:3014:PRO:HD3	3:C:3125:THR:HG22	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3073:ALA:O	3:C:3074:ARG:HG2	2.20	0.41
5:E:110:LYS:HA	6:F:10:GLN:CG	2.46	0.41
5:E:117:GLU:HG3	6:F:17:LEU:CD2	2.49	0.41
5:E:253:MET:CB	5:E:296:PHE:CE2	3.03	0.41
5:E:423:GLY:CA	5:E:505:ILE:HD12	2.47	0.41
8:H:8:GLN:N	8:H:9:PRO:HD3	2.35	0.41
9:I:77:CYS:O	9:I:77:CYS:SG	2.78	0.41
12:L:16:LEU:HD21	12:L:19:HIS:HE1	1.85	0.41
12:L:86:LEU:CD1	13:M:54:ASN:HB3	2.36	0.41
13:M:45:PHE:HA	13:M:48:ILE:HG22	2.00	0.41
1:A:748:CYS:SG	1:A:802:ILE:CD1	3.08	0.41
1:A:755:HIS:CE1	1:A:869:TYR:CB	3.02	0.41
1:A:871:LEU:CD2	1:A:872:ASP:N	2.60	0.41
1:A:1031:ILE:HG23	1:A:1034:SER:CB	2.48	0.41
1:A:1111:LEU:HD11	1:A:1156:VAL:HG21	2.02	0.41
1:A:1163:LEU:CD2	1:A:1167:LEU:HD12	2.50	0.41
1:A:1183:LEU:C	1:A:1183:LEU:CD2	2.86	0.41
1:A:1504:VAL:HG21	1:A:1565:CYS:SG	2.56	0.41
1:A:2676:TRP:CD2	1:A:2699:LEU:HD21	2.54	0.41
1:A:3095:TYR:HD1	1:A:3455:SER:HG	1.67	0.41
1:A:4252:PRO:HG3	1:A:4265:TYR:CG	2.54	0.41
2:B:531:LEU:HD23	2:B:536:ILE:HG21	2.02	0.41
2:B:609:LEU:H	2:B:609:LEU:CD2	2.33	0.41
2:B:734:GLU:N	2:B:735:PRO:CD	2.80	0.41
2:B:803:GLU:HG3	2:B:803:GLU:O	2.20	0.41
2:B:1474:MET:SD	2:B:1515:VAL:CG2	3.09	0.41
2:B:1798:ARG:NH2	2:B:2049:ARG:HD2	2.35	0.41
2:B:1912:LYS:HA	2:B:1922:VAL:HG11	2.02	0.41
2:B:2893:GLY:HA2	19:B:5602:ADP:H5'2	2.02	0.41
2:B:3178:VAL:CG1	2:B:3395:LEU:HD11	2.47	0.41
2:B:3268:THR:CG2	2:B:3269:LEU:H	2.20	0.41
2:B:3269:LEU:CD1	2:B:3269:LEU:N	2.82	0.41
3:C:192:PRO:HG3	3:C:232:TYR:HE2	1.84	0.41
3:C:293:VAL:HG23	3:C:304:ILE:HB	2.01	0.41
3:C:2585:PHE:CD1	3:C:2932:SER:OG	2.73	0.41
3:C:2779:GLN:O	3:C:2780:VAL:CG2	2.68	0.41
3:C:3757:LEU:HD23	3:C:3757:LEU:C	2.41	0.41
4:D:288:ARG:NE	4:D:610:GLY:HA3	2.32	0.41
4:D:312:PHE:CZ	4:D:332:TYR:HB2	2.54	0.41
4:D:401:GLN:CG	4:D:462:PHE:CD1	3.03	0.41
5:E:66:VAL:CG1	8:H:72:GLU:HG2	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:80:TRP:CH2	5:E:92:THR:HA	2.55	0.41
5:E:110:LYS:HG2	6:F:10:GLN:NE2	2.33	0.41
5:E:327:GLU:HB3	5:E:380:PRO:HB3	2.02	0.41
6:F:63:ILE:HG13	6:F:74:ILE:HG22	2.03	0.41
10:J:81:GLY:HA3	11:K:66:PHE:HA	2.02	0.41
12:L:86:LEU:N	12:L:86:LEU:HD22	2.35	0.41
13:M:12:MET:SD	13:M:16:MET:HB3	2.60	0.41
1:A:674:LEU:HD13	1:A:674:LEU:C	2.41	0.41
1:A:677:ARG:HG3	1:A:677:ARG:O	2.19	0.41
1:A:907:ASN:HB3	1:A:911:TYR:HE2	1.85	0.41
1:A:952:GLN:HE21	1:A:1010:LYS:HZ2	1.67	0.41
1:A:1111:LEU:HB3	1:A:1183:LEU:HD11	2.03	0.41
1:A:1426:GLN:O	1:A:1430:ARG:HG3	2.19	0.41
1:A:1448:GLY:O	1:A:1459:LEU:HA	2.20	0.41
1:A:1534:MET:N	1:A:1535:PRO:CD	2.83	0.41
1:A:1924:ASP:HA	1:A:1975:THR:OG1	2.20	0.41
1:A:2227:THR:HG22	1:A:2267:ASN:HB2	2.02	0.41
1:A:2275:GLU:HB2	1:A:2624:ARG:HD3	2.02	0.41
1:A:3442:LYS:CG	1:A:3485:THR:HG23	2.49	0.41
2:B:533:ARG:NH1	2:B:534:PRO:HG3	2.36	0.41
2:B:736:LEU:CD1	2:B:859:TYR:CG	3.02	0.41
2:B:993:TYR:CE2	2:B:1067:ILE:HG21	2.55	0.41
2:B:3432:ARG:HH12	2:B:3687:LEU:HD11	1.85	0.41
2:B:3555:THR:HG22	2:B:3578:LEU:HD23	2.02	0.41
3:C:276:PHE:CE1	3:C:282:ARG:HG3	2.55	0.41
3:C:2564:LEU:HD13	3:C:2564:LEU:C	2.40	0.41
3:C:2698:LEU:CD2	3:C:2698:LEU:C	2.85	0.41
4:D:110:SER:HA	15:O:96:ARG:HA	2.02	0.41
4:D:379:ASN:ND2	5:E:138:SER:OG	2.53	0.41
4:D:470:HIS:HA	4:D:486:ARG:HD3	2.02	0.41
4:D:501:LEU:HD23	4:D:501:LEU:HA	1.91	0.41
5:E:22:ASP:CB	14:N:91:THR:H	2.25	0.41
5:E:94:ARG:HE	5:E:94:ARG:HB2	1.67	0.41
5:E:408:HIS:CB	5:E:412:LEU:HD21	2.51	0.41
6:F:51:LEU:HD21	7:G:116:ASP:OD2	2.20	0.41
8:H:91:THR:OG1	9:I:76:GLN:NE2	2.44	0.41
9:I:26:ASN:HB3	9:I:98:PHE:CE2	2.43	0.41
12:L:92:VAL:CG1	12:L:109:LYS:HD3	2.49	0.41
1:A:675:ILE:HA	1:A:687:ASN:CB	2.50	0.41
1:A:762:LYS:NZ	1:A:787:GLY:CA	2.83	0.41
1:A:847:PHE:HZ	1:A:851:LYS:CE	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1016:PHE:HD2	1:A:1020:PHE:CZ	2.38	0.41
1:A:1136:MET:HE3	1:A:1136:MET:N	2.36	0.41
1:A:3124:ILE:HD11	1:A:3429:TRP:HE1	1.86	0.41
1:A:3260:LYS:HZ1	1:A:3267:LEU:CD2	2.29	0.41
2:B:57:ASN:N	2:B:84:PHE:O	2.53	0.41
2:B:178:SER:HA	2:B:197:GLU:CB	2.50	0.41
2:B:673:PHE:HZ	2:B:677:LEU:HB3	1.74	0.41
2:B:954:ASP:HB2	3:C:222:PHE:HA	2.02	0.41
2:B:1603:LYS:HD3	2:B:1610:TYR:CE1	2.55	0.41
2:B:3085:VAL:HG23	2:B:3477:TRP:CZ2	2.56	0.41
2:B:3119:LYS:HB3	2:B:3119:LYS:HZ2	1.82	0.41
2:B:4076:LEU:C	2:B:4076:LEU:HD12	2.40	0.41
3:C:25:THR:OG1	3:C:87:SER:CB	2.67	0.41
3:C:90:ILE:HA	3:C:153:PHE:CE2	2.55	0.41
3:C:106:LEU:H	3:C:106:LEU:CD1	2.33	0.41
3:C:360:PRO:HD2	3:C:361:PRO:HD2	2.00	0.41
3:C:1201:PHE:HD1	3:C:1225:THR:HG21	1.85	0.41
3:C:1687:GLY:O	3:C:1688:ALA:HB3	2.20	0.41
3:C:2725:ALA:HA	3:C:2728:TYR:CD2	2.48	0.41
4:D:89:TYR:CD2	11:K:56:PRO:CB	3.04	0.41
4:D:199:ILE:HG21	9:I:104:ALA:HB2	1.94	0.41
4:D:212:ILE:CG1	9:I:19:MET:CE	2.90	0.41
4:D:252:VAL:CB	7:G:149:GLN:HE22	2.32	0.41
4:D:316:LEU:N	4:D:316:LEU:CD1	2.83	0.41
4:D:563:MET:O	4:D:563:MET:SD	2.79	0.41
5:E:113:LYS:HE2	6:F:10:GLN:CA	2.48	0.41
5:E:250:ASN:HB3	5:E:251:PRO:HD2	2.01	0.41
5:E:259:ASN:CG	5:E:299:GLY:HA3	2.28	0.41
5:E:280:VAL:HG22	5:E:322:LEU:HD11	2.02	0.41
5:E:394:TRP:NE1	5:E:401:PRO:CD	2.80	0.41
5:E:498:GLN:HB2	5:E:501:GLU:HG3	2.01	0.41
9:I:24:ILE:CG2	9:I:98:PHE:HD1	2.33	0.41
11:K:60:CYS:O	11:K:60:CYS:SG	2.77	0.41
15:O:30:TYR:H	15:O:31:PRO:HD3	1.81	0.41
1:A:1814:ILE:HD12	1:A:1814:ILE:N	2.35	0.41
2:B:58:SER:H	2:B:70:LYS:N	2.19	0.41
2:B:549:GLU:HA	2:B:549:GLU:OE2	2.19	0.41
2:B:886:ILE:HG21	2:B:972:ILE:HD12	2.01	0.41
2:B:1139:LEU:C	2:B:1139:LEU:CD1	2.86	0.41
2:B:1516:ASN:HB3	2:B:1520:LYS:HE3	2.02	0.41
2:B:3041:ASN:OD1	2:B:3042:ASN:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4498:LEU:HD21	2:B:4577:VAL:HG13	2.03	0.41
3:C:2005:PRO:HB2	3:C:2145:PHE:CD1	2.55	0.41
3:C:2719:VAL:CG1	3:C:2720:PRO:CD	2.77	0.41
3:C:2934:PHE:HE2	3:C:3001:ILE:CG1	2.33	0.41
3:C:3711:LEU:HD21	3:C:3725:LEU:HD23	2.02	0.41
4:D:174:GLN:C	13:M:61:PHE:O	2.56	0.41
4:D:331:LEU:HD13	4:D:342:TYR:HB2	2.03	0.41
4:D:550:TRP:HZ3	4:D:556:THR:HA	1.85	0.41
5:E:145:LEU:HD22	5:E:494:LEU:CG	2.43	0.41
5:E:214:SER:HB3	5:E:243:TRP:CZ2	2.53	0.41
5:E:385:SER:CB	5:E:394:TRP:HZ3	2.33	0.41
6:F:33:LEU:N	6:F:33:LEU:CD2	2.84	0.41
7:G:123:LEU:HD23	7:G:123:LEU:HA	1.74	0.41
14:N:84:GLN:NE2	15:O:61:GLU:CB	2.66	0.41
15:O:30:TYR:CZ	15:O:34:ILE:HG13	2.55	0.41
1:A:674:LEU:C	1:A:674:LEU:CD1	2.89	0.41
1:A:1143:ARG:HE	4:D:169:ASN:ND2	2.01	0.41
1:A:1448:GLY:C	1:A:1459:LEU:HD22	2.41	0.41
1:A:1449:ILE:N	1:A:1459:LEU:HD22	2.36	0.41
1:A:1550:LYS:HA	1:A:1550:LYS:HD2	1.75	0.41
2:B:911:ILE:CD1	2:B:991:ASP:OD2	2.68	0.41
2:B:1069:THR:CB	2:B:1070:PRO:CD	2.92	0.41
2:B:1083:MET:SD	2:B:1083:MET:O	2.79	0.41
2:B:1378:LEU:N	2:B:1424:GLU:OE2	2.54	0.41
2:B:3264:ASN:HA	2:B:3306:ILE:CD1	2.51	0.41
3:C:6:VAL:HG22	3:C:7:TRP:N	2.35	0.41
3:C:532:GLY:N	3:C:546:LYS:O	2.54	0.41
3:C:970:LYS:O	3:C:974:LYS:N	2.48	0.41
3:C:2159:SER:HA	3:C:2185:VAL:CG1	2.51	0.41
3:C:2798:PHE:HB2	3:C:2803:MET:SD	2.61	0.41
3:C:3245:HIS:HD2	3:C:3246:SER:O	2.03	0.41
5:E:243:TRP:NE1	5:E:251:PRO:HB3	2.35	0.41
10:J:86:CYS:SG	11:K:61:VAL:CA	3.09	0.41
1:A:1845:LEU:HD23	1:A:1845:LEU:HA	1.94	0.41
1:A:2945:GLY:HA3	1:A:2992:ARG:HD2	2.02	0.41
1:A:2951:LEU:HD11	1:A:2956:ARG:HG3	2.03	0.41
1:A:3577:THR:HG22	1:A:3622:LYS:HB2	2.03	0.41
1:A:3753:ARG:HG2	1:A:3803:ILE:HG23	2.02	0.41
2:B:409:SER:CA	2:B:413:PHE:HB2	2.51	0.41
2:B:439:LEU:HD12	2:B:503:LEU:HD21	2.02	0.41
2:B:599:ILE:CG2	2:B:626:TYR:CD1	3.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:603:ILE:HD12	2:B:626:TYR:CE1	2.49	0.41
2:B:2862:LEU:N	2:B:2862:LEU:HD12	2.35	0.41
3:C:71:GLN:HG3	3:C:71:GLN:O	2.21	0.41
3:C:194:GLY:H	3:C:238:GLU:CB	2.33	0.41
3:C:1191:ILE:HG23	3:C:1201:PHE:CE2	2.56	0.41
3:C:2740:ILE:HB	3:C:2744:LYS:CB	2.46	0.41
3:C:3644:LEU:HD11	3:C:3661:ILE:HD11	2.02	0.41
3:C:3871:VAL:O	3:C:3874:THR:OG1	2.37	0.41
4:D:431:ASN:H	5:E:142:VAL:HG12	1.85	0.41
4:D:474:VAL:HG13	4:D:474:VAL:O	2.19	0.41
4:D:561:ALA:CB	4:D:566:VAL:HG22	2.51	0.41
5:E:57:SER:HG	10:J:90:HIS:CE1	2.39	0.41
5:E:60:SER:HA	10:J:87:GLN:HA	2.01	0.41
5:E:75:HIS:CD2	5:E:75:HIS:O	2.74	0.41
5:E:198:TYR:CE1	5:E:211:LYS:HG3	2.55	0.41
5:E:317:ILE:HG22	5:E:338:GLU:HB2	2.02	0.41
6:F:87:TYR:CD2	6:F:100:ILE:HG12	2.56	0.41
10:J:102:LYS:HD2	10:J:102:LYS:O	2.21	0.41
11:K:79:PHE:HD1	11:K:88:LEU:HD13	1.85	0.41
12:L:99:LEU:N	12:L:100:PRO:CD	2.84	0.41
13:M:44:GLU:HA	13:M:47:LYS:HZ1	1.85	0.41
1:A:506:ALA:O	1:A:510:PHE:CB	2.68	0.41
1:A:1720:SER:HA	1:A:1780:LYS:HG3	2.03	0.41
1:A:1806:PHE:O	1:A:1809:GLN:N	2.54	0.41
1:A:2316:ARG:HH11	1:A:2372:VAL:HG22	1.85	0.41
1:A:2340:GLN:OE1	1:A:2341:SER:N	2.53	0.41
1:A:3128:THR:HG22	1:A:3422:LEU:CB	2.38	0.41
1:A:3194:ALA:HB3	1:A:3356:VAL:CG2	2.40	0.41
1:A:3532:ASP:HB3	1:A:3647:PHE:HB3	2.02	0.41
2:B:4:HIS:C	2:B:6:GLN:H	2.22	0.41
2:B:644:TRP:HZ3	2:B:695:PRO:HB3	1.84	0.41
2:B:744:MET:CG	2:B:776:LEU:HD22	2.32	0.41
2:B:805:LYS:HD3	2:B:809:MET:CE	2.50	0.41
2:B:1458:PHE:HE1	2:B:1560:MET:CE	2.34	0.41
2:B:2332:MET:N	2:B:2333:PRO:CD	2.83	0.41
2:B:2488:GLU:HG2	2:B:2492:ASN:HD21	1.86	0.41
2:B:2754:THR:HG21	2:B:2770:LEU:CD2	2.51	0.41
2:B:3143:LEU:HD21	2:B:3698:LEU:CD1	2.49	0.41
2:B:3446:SER:HA	2:B:3488:ILE:CA	2.46	0.41
2:B:3478:LEU:HB3	2:B:3479:PRO:HD3	2.02	0.41
3:C:10:LEU:HD23	3:C:65:ASN:O	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:354:VAL:CG1	3:C:357:ILE:HB	2.49	0.41
3:C:531:GLU:HA	3:C:546:LYS:O	2.21	0.41
3:C:1188:LEU:CD1	3:C:1207:LEU:HD11	2.50	0.41
3:C:4017:LEU:HD12	3:C:4018:CYS:N	2.36	0.41
4:D:199:ILE:HD12	4:D:199:ILE:HA	1.96	0.41
4:D:248:MET:HG2	7:G:138:ALA:HB2	2.03	0.41
5:E:63:THR:HA	10:J:99:TYR:OH	2.21	0.41
5:E:230:GLN:HE21	5:E:242:VAL:HG11	1.86	0.41
6:F:26:PHE:CE1	6:F:49:ALA:N	2.89	0.41
6:F:107:ILE:HG22	6:F:111:LYS:HE3	2.02	0.41
7:G:103:ILE:HD12	7:G:146:ILE:HG21	2.02	0.41
8:H:36:ASN:N	8:H:36:ASN:ND2	2.68	0.41
9:I:63:ILE:CG2	9:I:77:CYS:SG	3.09	0.41
16:P:61:GLU:C	16:P:63:ARG:N	2.73	0.41
1:A:402:PRO:C	1:A:467:ILE:O	2.59	0.41
1:A:852:ASN:OD1	1:A:894:PHE:CZ	2.74	0.41
1:A:909:MET:HE2	1:A:955:ILE:HD11	1.91	0.41
1:A:963:LEU:HD12	1:A:986:TYR:CE1	2.56	0.41
1:A:967:LYS:HB2	1:A:986:TYR:HB2	2.03	0.41
1:A:1143:ARG:NE	4:D:169:ASN:HD22	1.99	0.41
1:A:1270:GLU:CB	1:A:1277:ASN:CG	2.89	0.41
1:A:1436:ILE:CG2	1:A:1474:ASP:OD2	2.66	0.41
1:A:1562:ILE:N	1:A:1563:PRO:HD2	2.36	0.41
1:A:1631:PHE:HB2	1:A:1634:ILE:HG21	2.02	0.41
1:A:1637:VAL:HG12	1:A:1653:ILE:HG23	1.97	0.41
1:A:1918:GLY:HA3	1:A:1967:ILE:HG21	2.01	0.41
1:A:2171:THR:O	1:A:2175:THR:HG23	2.21	0.41
1:A:2367:CYS:HB3	1:A:2386:PHE:CE1	2.56	0.41
1:A:2448:TRP:CZ2	1:A:2450:PRO:HA	2.56	0.41
1:A:3238:ASN:O	1:A:3242:VAL:HG23	2.20	0.41
1:A:3251:ILE:CG1	17:Q:82:ASN:CB	2.98	0.41
2:B:861:ASP:CG	3:C:170:GLN:HB2	2.30	0.41
2:B:1102:LEU:HD23	2:B:1105:GLN:HB2	2.01	0.41
2:B:1139:LEU:HD13	2:B:1139:LEU:O	2.21	0.41
2:B:1317:LEU:HA	16:P:61:GLU:CA	2.20	0.41
2:B:1437:GLU:O	2:B:1441:GLU:HG3	2.21	0.41
2:B:1440:ILE:O	2:B:1443:LYS:HB2	2.20	0.41
2:B:2267:ILE:HG13	2:B:2311:ALA:HB2	2.03	0.41
2:B:2819:ILE:HD11	2:B:2870:GLU:HG2	2.03	0.41
2:B:3116:ASP:HA	2:B:3119:LYS:NZ	2.35	0.41
2:B:3446:SER:HB2	2:B:3489:THR:CB	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3458:VAL:CG2	2:B:3498:LEU:HD21	2.51	0.41
2:B:3762:ILE:O	2:B:3765:SER:OG	2.30	0.41
2:B:4130:LEU:C	2:B:4130:LEU:HD23	2.41	0.41
2:B:4139:THR:HG21	2:B:4211:TYR:CD1	2.56	0.41
2:B:4148:PRO:O	2:B:4152:ASN:ND2	2.53	0.41
3:C:195:ASN:O	3:C:239:TRP:CE2	2.73	0.41
3:C:215:MET:HA	3:C:230:MET:O	2.21	0.41
3:C:273:VAL:HG23	3:C:273:VAL:O	2.21	0.41
3:C:326:ILE:HG23	3:C:326:ILE:O	2.21	0.41
3:C:1299:VAL:O	3:C:1299:VAL:HG12	2.21	0.41
3:C:1694:TRP:CZ3	3:C:1710:LEU:HD13	2.56	0.41
3:C:1742:LEU:HD12	3:C:1780:LEU:HD22	2.03	0.41
3:C:3627:VAL:HG21	3:C:3661:ILE:HG23	2.03	0.41
3:C:4028:TYR:O	3:C:4031:ALA:HB3	2.21	0.41
4:D:286:ILE:HG21	4:D:287:TRP:CZ3	2.56	0.41
4:D:329:ILE:CG1	4:D:350:VAL:HG21	2.51	0.41
4:D:517:ILE:CG1	4:D:550:TRP:NE1	2.73	0.41
4:D:537:ILE:CD1	4:D:647:TYR:CE2	3.04	0.41
4:D:573:VAL:CB	4:D:579:LEU:HD21	2.51	0.41
5:E:166:GLU:CB	5:E:220:ASN:HA	2.51	0.41
5:E:324:TYR:CE2	5:E:330:PRO:HA	2.56	0.41
5:E:457:LEU:HD12	5:E:480:ASP:OD1	2.21	0.41
6:F:36:HIS:CD2	6:F:38:LYS:HB2	2.56	0.41
7:G:85:VAL:HG22	7:G:100:ALA:HB1	2.02	0.41
7:G:145:LEU:HD23	7:G:146:ILE:N	2.36	0.41
8:H:65:PHE:HB2	9:I:80:GLY:HA3	1.90	0.41
9:I:11:ASP:HB2	9:I:14:GLU:CG	2.50	0.41
9:I:24:ILE:HD13	9:I:98:PHE:CE1	2.43	0.41
10:J:37:LEU:CD2	10:J:37:LEU:C	2.85	0.41
10:J:40:ALA:HB1	10:J:107:MET:HE3	2.02	0.41
13:M:23:ILE:HG22	13:M:41:ILE:CD1	2.51	0.41
15:O:69:GLU:HA	15:O:69:GLU:OE1	2.21	0.41
1:A:95:PHE:N	1:A:124:THR:CB	2.84	0.41
1:A:739:ARG:HH11	1:A:743:LYS:HZ2	1.64	0.41
1:A:1126:VAL:CG1	1:A:1201:TYR:CE1	3.03	0.41
1:A:1441:ASN:N	1:A:1562:ILE:HD11	2.36	0.41
1:A:1684:LEU:HD23	1:A:1684:LEU:HA	1.93	0.41
1:A:2576:LEU:HD13	1:A:2621:ILE:HG13	2.03	0.41
1:A:2793:VAL:HG23	1:A:2804:ALA:HB2	2.02	0.41
1:A:2855:ILE:HG21	1:A:2863:GLY:HA3	2.03	0.41
1:A:3350:LYS:O	1:A:3354:ILE:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4415:VAL:HG22	1:A:4435:LEU:HA	2.01	0.41
1:A:4462:PHE:CD1	1:A:4524:VAL:HG13	2.56	0.41
2:B:453:THR:CG2	5:E:511:ARG:HD2	2.51	0.41
2:B:524:LEU:C	2:B:524:LEU:CD2	2.85	0.41
2:B:579:PHE:CE2	5:E:369:PRO:HG2	2.48	0.41
2:B:1107:ARG:NH2	2:B:1172:LYS:HE2	2.25	0.41
2:B:1123:GLY:HA2	2:B:1197:PHE:HE1	1.68	0.41
2:B:1492:LYS:HZ1	2:B:3606:GLN:CB	2.34	0.41
2:B:2366:ALA:HA	2:B:2432:LEU:HD13	2.02	0.41
3:C:2698:LEU:HD12	3:C:2820:ILE:HD11	2.02	0.41
3:C:2719:VAL:HA	3:C:2751:TRP:CE3	2.56	0.41
3:C:2726:THR:CB	3:C:2729:LEU:CD1	2.71	0.41
4:D:75:LEU:CG	15:O:102:LEU:CD1	2.93	0.41
4:D:107:VAL:CA	15:O:98:ALA:HA	2.33	0.41
4:D:252:VAL:HG21	7:G:147:VAL:HG11	2.03	0.41
4:D:294:GLN:CG	4:D:297:LYS:CE	2.99	0.41
4:D:412:TYR:CB	4:D:428:LEU:HD22	2.50	0.41
5:E:58:GLU:HB2	10:J:89:VAL:HA	1.92	0.41
5:E:119:CYS:CB	6:F:88:ILE:HG21	2.51	0.41
8:H:54:HIS:NE2	18:R:62:LYS:CA	2.57	0.41
8:H:61:VAL:N	9:I:84:ALA:O	2.28	0.41
9:I:19:MET:CB	9:I:22:LYS:CE	2.98	0.41
14:N:72:ILE:CG1	15:O:97:ILE:HG12	2.47	0.41
15:O:52:ASP:H	15:O:53:PRO:CD	2.27	0.41
17:Q:139:LYS:C	17:Q:141:LEU:H	2.25	0.41
1:A:1116:LYS:HD3	1:A:1116:LYS:O	2.21	0.40
1:A:1460:ASN:HA	1:A:1552:MET:HE1	2.03	0.40
1:A:1514:VAL:HG13	1:A:1581:LEU:HD13	2.03	0.40
1:A:2033:LEU:HD23	1:A:2097:LEU:HD22	2.03	0.40
1:A:2668:LEU:HD11	1:A:2729:LEU:CD2	2.51	0.40
2:B:511:PHE:CE2	2:B:520:ARG:HD3	2.56	0.40
2:B:511:PHE:CZ	2:B:546:VAL:HB	2.56	0.40
2:B:531:LEU:HD22	2:B:536:ILE:HG22	2.02	0.40
2:B:2879:LEU:O	2:B:3017:LYS:NZ	2.52	0.40
2:B:3239:VAL:HB	2:B:3284:MET:HE3	2.03	0.40
2:B:3242:MET:HA	2:B:3245:LEU:CG	2.50	0.40
3:C:209:ALA:HA	3:C:264:TRP:CG	2.56	0.40
3:C:1328:LEU:HG	3:C:1333:VAL:HG11	2.03	0.40
3:C:2850:LYS:O	3:C:2854:VAL:CG2	2.67	0.40
4:D:80:PRO:HD2	15:O:103:TRP:HZ2	1.66	0.40
4:D:134:LYS:HB2	4:D:134:LYS:HZ2	1.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:294:GLN:CG	4:D:297:LYS:HE2	2.51	0.40
4:D:422:ARG:HB3	4:D:422:ARG:HH21	1.85	0.40
4:D:543:MET:HG3	4:D:563:MET:HB3	2.03	0.40
4:D:553:TYR:CD1	4:D:595:PHE:HE2	2.39	0.40
6:F:35:ARG:HH21	6:F:41:SER:HB2	1.80	0.40
8:H:52:ARG:HA	18:R:63:ASN:HA	1.99	0.40
1:A:607:ILE:HD13	1:A:655:PHE:CB	2.52	0.40
1:A:614:PHE:CZ	1:A:648:LEU:HD11	2.56	0.40
1:A:889:TYR:HE2	7:G:12:SER:C	2.24	0.40
1:A:894:PHE:CD1	1:A:972:TRP:CH2	3.09	0.40
1:A:955:ILE:HD12	1:A:955:ILE:HA	1.93	0.40
1:A:1599:PHE:HB3	1:A:1602:PHE:CD2	2.56	0.40
1:A:3333:LEU:HD23	1:A:3333:LEU:HA	1.84	0.40
1:A:3654:LEU:HD23	1:A:3755:SER:HA	2.02	0.40
1:A:3749:PRO:HA	1:A:3752:ILE:HG22	2.03	0.40
1:A:4331:LEU:HD11	1:A:4382:VAL:HG12	2.03	0.40
2:B:426:ILE:HG12	2:B:485:PHE:HZ	1.84	0.40
2:B:500:GLU:CG	2:B:532:THR:CG2	2.90	0.40
2:B:736:LEU:CG	2:B:856:TRP:HA	2.52	0.40
2:B:787:LEU:O	2:B:791:HIS:CD2	2.69	0.40
2:B:1001:GLU:O	2:B:1094:TRP:HZ2	2.01	0.40
2:B:1208:LYS:HE3	2:B:1208:LYS:N	2.36	0.40
2:B:1456:PHE:CE2	2:B:1567:PRO:O	2.74	0.40
2:B:1488:LYS:HA	2:B:1494:VAL:CB	2.51	0.40
2:B:3160:LYS:HE3	2:B:3412:CYS:SG	2.61	0.40
3:C:9:GLN:HB2	3:C:350:TRP:CZ2	2.56	0.40
3:C:2242:HIS:HB2	3:C:2289:LEU:CD1	2.50	0.40
3:C:2581:LEU:HD11	3:C:2937:TYR:CE2	2.55	0.40
3:C:2743:ASN:ND2	3:C:2785:VAL:CG1	2.45	0.40
4:D:141:MET:HB2	4:D:158:ILE:HD13	2.01	0.40
4:D:199:ILE:CG1	9:I:104:ALA:HB2	2.51	0.40
5:E:84:VAL:HG13	5:E:91:GLU:HB3	2.03	0.40
5:E:121:TYR:OH	6:F:17:LEU:HD21	2.21	0.40
5:E:214:SER:HB2	5:E:215:PRO:HD2	2.02	0.40
5:E:405:THR:HG23	5:E:405:THR:O	2.20	0.40
9:I:49:ASN:HD21	9:I:59:ALA:HA	1.86	0.40
1:A:688:PHE:CB	1:A:727:TYR:CD2	3.05	0.40
1:A:854:GLU:CG	5:E:205:PRO:CG	2.86	0.40
1:A:889:TYR:HH	7:G:16:ILE:CB	2.32	0.40
1:A:935:VAL:HG13	1:A:944:LEU:HD23	2.03	0.40
1:A:1126:VAL:HG13	1:A:1131:SER:CB	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1468:LEU:HA	1:A:1471:LEU:HD12	2.03	0.40
1:A:1586:LYS:HB3	1:A:1586:LYS:HE2	1.65	0.40
1:A:3049:LEU:HD12	1:A:3103:TYR:CZ	2.57	0.40
1:A:3233:ILE:CD1	1:A:3329:ALA:HB2	2.51	0.40
1:A:3833:LYS:O	1:A:3837:THR:HG23	2.21	0.40
2:B:87:LYS:CB	2:B:103:ASN:HA	2.51	0.40
2:B:444:LEU:CD2	2:B:526:ASN:CB	2.99	0.40
2:B:599:ILE:CG2	2:B:626:TYR:HD1	2.33	0.40
2:B:3288:GLN:CA	2:B:3288:GLN:HE21	2.33	0.40
3:C:72:ILE:HG13	3:C:119:TYR:CE1	2.57	0.40
3:C:336:ILE:HG13	3:C:351:ALA:CB	2.51	0.40
3:C:1983:THR:CA	19:C:4702:ADP:N6	2.85	0.40
3:C:2189:LEU:HD13	3:C:2189:LEU:C	2.41	0.40
3:C:2414:LEU:HD13	3:C:2415:PHE:N	2.36	0.40
4:D:105:MET:HE3	14:N:47:THR:C	2.31	0.40
4:D:386:TYR:HB3	4:D:433:LEU:CD1	2.51	0.40
4:D:603:LEU:HD23	4:D:613:LEU:HB3	2.04	0.40
5:E:123:ASN:HB2	6:F:101:GLN:NE2	2.33	0.40
5:E:376:SER:HB3	5:E:417:TRP:CD2	2.56	0.40
5:E:556:GLU:N	5:E:556:GLU:OE1	2.55	0.40
7:G:74:LEU:HD22	7:G:148:ILE:HG22	2.03	0.40
9:I:89:VAL:HG21	9:I:94:LEU:HB2	2.03	0.40
1:A:777:ILE:O	1:A:780:TYR:HB3	2.21	0.40
1:A:944:LEU:HD21	1:A:1017:LEU:HD22	2.00	0.40
1:A:1514:VAL:HG12	1:A:1548:TRP:HZ3	1.86	0.40
1:A:2498:ALA:N	19:A:4701:ADP:O2B	2.52	0.40
2:B:360:ASP:CB	2:B:478:MET:HE3	2.51	0.40
2:B:603:ILE:CD1	2:B:626:TYR:CE2	3.05	0.40
2:B:1530:ASN:O	2:B:1530:ASN:OD1	2.38	0.40
2:B:2622:GLN:OE1	2:B:2625:ARG:NH1	2.54	0.40
2:B:3114:LEU:O	2:B:3114:LEU:HD12	2.22	0.40
2:B:3413:GLN:HA	2:B:3413:GLN:OE1	2.21	0.40
3:C:114:LEU:HD22	3:C:115:LYS:N	2.37	0.40
3:C:289:ASP:HB2	3:C:318:PRO:O	2.21	0.40
3:C:354:VAL:CG2	3:C:357:ILE:CG1	2.85	0.40
3:C:2059:LEU:HD13	3:C:2067:TYR:CG	2.56	0.40
3:C:3460:ASN:HB3	3:C:3466:ALA:HB1	2.03	0.40
4:D:289:PHE:HB3	4:D:332:TYR:CE1	2.56	0.40
5:E:59:HIS:CB	10:J:90:HIS:NE2	2.84	0.40
5:E:420:THR:CG2	5:E:472:SER:C	2.90	0.40
6:F:11:LEU:HD21	6:F:23:TYR:CE1	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:70:THR:H	9:I:76:GLN:CG	2.33	0.40
10:J:65:LYS:HD3	10:J:65:LYS:O	2.21	0.40
13:M:45:PHE:HA	13:M:48:ILE:CG2	2.51	0.40
15:O:41:LEU:HD22	15:O:70:LYS:HE2	2.02	0.40
1:A:674:LEU:HD23	1:A:770:LEU:HB2	2.03	0.40
1:A:1012:LYS:HB2	1:A:1071:ILE:HG21	1.95	0.40
1:A:1095:GLN:HA	1:A:1095:GLN:OE1	2.22	0.40
1:A:2196:MET:O	1:A:2211:VAL:N	2.55	0.40
1:A:2476:ILE:HG22	1:A:2477:LEU:HD23	2.03	0.40
1:A:2602:MET:N	1:A:2602:MET:SD	2.95	0.40
1:A:4347:LEU:HD11	1:A:4368:LEU:HD23	2.03	0.40
1:A:4501:VAL:HG12	1:A:4562:ASN:HA	2.03	0.40
2:B:1317:LEU:CA	16:P:61:GLU:CA	2.81	0.40
2:B:2151:THR:HA	2:B:2155:MET:HB2	2.02	0.40
3:C:79:PRO:HG3	3:C:121:TRP:CD2	2.56	0.40
3:C:2740:ILE:CG2	3:C:2744:LYS:HD2	2.51	0.40
3:C:2745:LYS:HG3	3:C:2749:VAL:HG21	1.90	0.40
3:C:3013:ASP:N	3:C:3013:ASP:OD1	2.54	0.40
3:C:3225:ARG:N	3:C:3226:PRO:CD	2.84	0.40
3:C:3457:SER:O	3:C:3462:ASN:N	2.55	0.40
5:E:274:LYS:HG3	5:E:278:GLU:CD	2.42	0.40
5:E:530:LYS:HD2	5:E:531:ARG:NH1	2.37	0.40
8:H:12:LYS:CG	8:H:80:TYR:HE2	2.15	0.40
8:H:58:HIS:HB3	9:I:87:VAL:HG22	2.03	0.40
8:H:62:GLY:HA3	9:I:83:TYR:HB3	2.04	0.40
9:I:15:LEU:HD22	9:I:19:MET:HE1	2.04	0.40
10:J:80:PHE:O	11:K:67:ASN:O	2.40	0.40
11:K:33:VAL:HA	11:K:42:ILE:CD1	2.52	0.40
11:K:78:ILE:HG22	11:K:89:LEU:HD11	2.03	0.40
14:N:82:SER:OG	15:O:57:ASN:CG	2.59	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	4391/4615 (95%)	4176 (95%)	190 (4%)	25 (1%)	22 60
2	B	4498/4588 (98%)	4258 (95%)	203 (4%)	37 (1%)	16 54
3	C	3923/3947 (99%)	3698 (94%)	202 (5%)	23 (1%)	22 60
4	D	569/595 (96%)	546 (96%)	16 (3%)	7 (1%)	11 44
5	E	551/557 (99%)	531 (96%)	18 (3%)	2 (0%)	30 68
6	F	126/128 (98%)	120 (95%)	6 (5%)	0	100 100
7	G	147/151 (97%)	134 (91%)	7 (5%)	6 (4%)	2 18
8	H	89/91 (98%)	88 (99%)	1 (1%)	0	100 100
9	I	104/106 (98%)	100 (96%)	3 (3%)	1 (1%)	13 49
10	J	93/95 (98%)	90 (97%)	3 (3%)	0	100 100
11	K	88/90 (98%)	85 (97%)	3 (3%)	0	100 100
12	L	109/111 (98%)	104 (95%)	4 (4%)	1 (1%)	14 51
13	M	85/87 (98%)	83 (98%)	2 (2%)	0	100 100
14	N	112/114 (98%)	105 (94%)	7 (6%)	0	100 100
15	O	118/120 (98%)	112 (95%)	4 (3%)	2 (2%)	7 36
16	P	103/112 (92%)	90 (87%)	7 (7%)	6 (6%)	1 15
17	Q	190/192 (99%)	174 (92%)	13 (7%)	3 (2%)	8 37
18	R	148/150 (99%)	121 (82%)	19 (13%)	8 (5%)	1 16
All	All	15444/15849 (97%)	14615 (95%)	708 (5%)	121 (1%)	19 54

All (121) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	101	PRO
1	A	125	PRO
1	A	127	THR
1	A	151	ILE
1	A	1171	ILE
1	A	1172	THR
1	A	1348	GLN
2	B	6	GLN
2	B	17	ARG
2	B	100	THR
2	B	307	PRO

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Mol	Chain	Res	Type
2	B	533	ARG
2	B	897	SER
2	B	1127	ASN
2	B	1567	PRO
2	B	3267	ILE
2	B	4257	LYS
3	C	2013	GLY
3	C	3619	GLY
4	D	234	GLN
4	D	397	ASP
4	D	398	PRO
7	G	19	GLN
7	G	49	ASN
16	P	36	TYR
16	P	37	PRO
17	Q	19	PRO
18	R	43	ILE
18	R	59	VAL
18	R	106	GLY
1	A	8	LYS
1	A	27	ILE
1	A	28	VAL
1	A	3535	GLY
1	A	4430	TRP
1	A	4562	ASN
2	B	60	ASN
2	B	136	PRO
2	B	799	VAL
2	B	917	ILE
3	C	442	ILE
3	C	529	GLU
3	C	1549	ALA
3	C	2015	GLY
3	C	2247	THR
3	C	2796	PRO
3	C	3054	SER
3	C	3983	ALA
3	C	4090	ASP
3	C	4106	PRO
7	G	20	ARG
7	G	38	LYS
9	I	51	ALA

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Mol	Chain	Res	Type
16	P	62	LYS
18	R	66	LEU
1	A	197	ILE
1	A	1391	LEU
1	A	4563	LYS
2	B	103	ASN
2	B	1124	ILE
3	C	357	ILE
3	C	861	SER
3	C	1170	ALA
3	C	2366	LYS
12	L	15	PRO
17	Q	140	ASP
18	R	65	GLY
1	A	57	TYR
1	A	106	LYS
1	A	1745	ASN
1	A	4190	SER
1	A	4538	LYS
2	B	24	ILE
2	B	47	ASP
2	B	138	ASN
2	B	952	PRO
2	B	1856	ILE
2	B	3302	ILE
3	C	1277	ASP
3	C	4142	ALA
5	E	45	PRO
7	G	25	ILE
16	P	63	ARG
17	Q	129	ILE
18	R	121	PHE
1	A	3488	LEU
1	A	3585	ASN
2	B	5	SER
2	B	659	THR
2	B	1003	ILE
2	B	1333	ILE
2	B	1499	ASP
2	B	1863	TYR
2	B	4152	ASN
3	C	471	ILE

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Mol	Chain	Res	Type
3	C	2715	PRO
4	D	588	PRO
5	E	263	GLU
15	O	52	ASP
16	P	83	HIS
16	P	119	PRO
18	R	6	MET
18	R	104	THR
1	A	4618	SER
2	B	1069	THR
2	B	1680	GLY
2	B	1947	GLY
3	C	881	ILE
3	C	2795	MET
15	O	30	TYR
1	A	1856	ILE
3	C	1401	PRO
7	G	139	PRO
2	B	146	VAL
2	B	477	ILE
2	B	3248	PRO
4	D	435	PRO
4	D	513	PRO
2	B	4148	PRO
4	D	149	PRO
2	B	811	PRO

5.3.2 Protein sidechains

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	3430/4191 (82%)	3358 (98%)	72 (2%)	48 67
2	B	3525/4135 (85%)	3447 (98%)	78 (2%)	47 65
3	C	3139/3505 (90%)	3091 (98%)	48 (2%)	60 75
4	D	511/545 (94%)	507 (99%)	4 (1%)	79 84

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
5	E	488/496 (98%)	484 (99%)	4 (1%)	79 84
6	F	105/105 (100%)	104 (99%)	1 (1%)	73 81
7	G	86/141 (61%)	86 (100%)	0	100 100
8	H	82/82 (100%)	82 (100%)	0	100 100
9	I	91/91 (100%)	91 (100%)	0	100 100
10	J	82/82 (100%)	81 (99%)	1 (1%)	67 79
11	K	80/80 (100%)	80 (100%)	0	100 100
12	L	90/99 (91%)	90 (100%)	0	100 100
13	M	78/78 (100%)	78 (100%)	0	100 100
14	N	84/101 (83%)	84 (100%)	0	100 100
15	O	108/108 (100%)	106 (98%)	2 (2%)	52 69
17	Q	11/176 (6%)	11 (100%)	0	100 100
All	All	11990/14015 (86%)	11780 (98%)	210 (2%)	54 71

All (210) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	674	LEU
1	A	818	LEU
1	A	871	LEU
1	A	989	ILE
1	A	1153	PHE
1	A	1176	GLU
1	A	1519	THR
1	A	1522	GLU
1	A	1536	LEU
1	A	1540	GLN
1	A	1550	LYS
1	A	1559	LYS
1	A	1564	CYS
1	A	1567	ASN
1	A	1573	PHE
1	A	1581	LEU
1	A	1584	CYS
1	A	1585	GLN
1	A	1589	GLU
1	A	1609	THR
1	A	1618	SER

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Mol	Chain	Res	Type
1	A	1631	PHE
1	A	1634	ILE
1	A	1635	THR
1	A	1644	ASP
1	A	1681	GLU
1	A	1711	LEU
1	A	1846	CYS
1	A	1880	GLU
1	A	1922	CYS
1	A	2034	CYS
1	A	2084	SER
1	A	2089	ASP
1	A	2095	ASN
1	A	2098	LEU
1	A	2122	GLU
1	A	2220	ASN
1	A	2340	GLN
1	A	2418	ILE
1	A	2426	GLU
1	A	2430	ASP
1	A	2487	ASN
1	A	2729	LEU
1	A	2875	SER
1	A	2901	ASP
1	A	2905	ASP
1	A	2921	THR
1	A	3046	PHE
1	A	3095	TYR
1	A	3125	GLN
1	A	3149	THR
1	A	3185	GLU
1	A	3192	GLU
1	A	3203	PRO
1	A	3345	LYS
1	A	3354	ILE
1	A	3637	GLU
1	A	3647	PHE
1	A	3973	TYR
1	A	4130	ILE
1	A	4138	SER
1	A	4155	TYR
1	A	4209	ASP

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Mol	Chain	Res	Type
1	A	4287	THR
1	A	4317	GLU
1	A	4342	GLU
1	A	4396	GLN
1	A	4497	SER
1	A	4504	SER
1	A	4542	ASP
1	A	4562	ASN
1	A	4588	ASP
2	B	1183	THR
2	B	1186	PRO
2	B	1201	TYR
2	B	1208	LYS
2	B	1213	PRO
2	B	1623	ASN
2	B	1734	THR
2	B	1758	LYS
2	B	1770	ASN
2	B	1860	PHE
2	B	2116	THR
2	B	2117	ASP
2	B	2121	ILE
2	B	2128	ASP
2	B	2130	PHE
2	B	2219	THR
2	B	2252	TYR
2	B	2335	MET
2	B	2363	ASP
2	B	2383	ASP
2	B	2427	ASP
2	B	2462	ASN
2	B	2514	THR
2	B	2574	LEU
2	B	2617	THR
2	B	2655	ASN
2	B	2664	ASP
2	B	2667	LEU
2	B	2690	SER
2	B	2696	LEU
2	B	2741	PHE
2	B	2767	LEU
2	B	2776	LYS

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Mol	Chain	Res	Type
2	B	2862	LEU
2	B	2885	ASN
2	B	2944	ARG
2	B	2959	LEU
2	B	2963	ASN
2	B	2966	LEU
2	B	2975	PHE
2	B	3023	SER
2	B	3031	ILE
2	B	3032	ARG
2	B	3077	SER
2	B	3114	LEU
2	B	3133	ILE
2	B	3222	PRO
2	B	3269	LEU
2	B	3353	VAL
2	B	3355	PRO
2	B	3407	GLN
2	B	3447	MET
2	B	3540	GLN
2	B	3632	HIS
2	B	3644	ILE
2	B	3648	VAL
2	B	3756	MET
2	B	3793	ASP
2	B	3800	LEU
2	B	3814	ARG
2	B	3909	ASP
2	B	3952	GLN
2	B	4012	PHE
2	B	4076	LEU
2	B	4149	LYS
2	B	4304	LYS
2	B	4328	PHE
2	B	4329	ASN
2	B	4365	LYS
2	B	4405	TYR
2	B	4408	LYS
2	B	4464	TYR
2	B	4477	LYS
2	B	4482	GLU
2	B	4513	SER

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Mol	Chain	Res	Type
2	B	4563	LEU
2	B	4570	ARG
2	B	4588	ASP
3	C	39	LEU
3	C	98	PHE
3	C	114	LEU
3	C	187	TRP
3	C	214	LEU
3	C	232	TYR
3	C	346	LEU
3	C	352	LEU
3	C	1098	CYS
3	C	1113	ASN
3	C	1318	ASP
3	C	1321	SER
3	C	1453	CYS
3	C	1499	CYS
3	C	1660	ASP
3	C	1821	ASP
3	C	1884	CYS
3	C	1981	ASN
3	C	2014	CYS
3	C	2016	LYS
3	C	2043	ASN
3	C	2122	THR
3	C	2225	SER
3	C	2244	CYS
3	C	2295	ILE
3	C	2406	CYS
3	C	2432	ASN
3	C	2467	ASP
3	C	2488	ILE
3	C	2666	CYS
3	C	2670	LYS
3	C	3059	ASN
3	C	3405	ARG
3	C	3602	GLN
3	C	3621	TRP
3	C	3778	ASP
3	C	3787	MET
3	C	3793	THR
3	C	3804	TYR

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Mol	Chain	Res	Type
3	C	3819	ASN
3	C	3824	PHE
3	C	3863	TYR
3	C	3877	GLU
3	C	3883	SER
3	C	3918	VAL
3	C	3986	SER
3	C	4050	GLN
3	C	4167	ASP
4	D	115	TYR
4	D	174	GLN
4	D	584	ILE
4	D	639	PHE
5	E	27	TYR
5	E	377	ASN
5	E	556	GLU
5	E	560	HIS
6	F	35	ARG
10	J	21	PHE
15	O	46	LEU
15	O	121	TYR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (204) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	678	HIS
1	A	705	GLN
1	A	741	ASN
1	A	786	GLN
1	A	804	ASN
1	A	837	GLN
1	A	852	ASN
1	A	900	ASN
1	A	952	GLN
1	A	1041	ASN
1	A	1047	ASN
1	A	1051	GLN
1	A	1205	GLN
1	A	1276	GLN
1	A	1444	GLN
1	A	1460	ASN
1	A	1566	GLN

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Mol	Chain	Res	Type
1	A	1578	ASN
1	A	1585	GLN
1	A	1655	GLN
1	A	1666	ASN
1	A	1718	GLN
1	A	1788	GLN
1	A	1901	GLN
1	A	1916	GLN
1	A	1940	GLN
1	A	1950	GLN
1	A	2037	GLN
1	A	2095	ASN
1	A	2220	ASN
1	A	2267	ASN
1	A	2276	ASN
1	A	2279	ASN
1	A	2369	GLN
1	A	2458	GLN
1	A	2508	ASN
1	A	2768	GLN
1	A	2771	ASN
1	A	2889	GLN
1	A	3067	HIS
1	A	3112	GLN
1	A	3113	GLN
1	A	3122	ASN
1	A	3125	GLN
1	A	3226	ASN
1	A	3343	HIS
1	A	3344	GLN
1	A	3606	GLN
1	A	3651	GLN
1	A	3746	GLN
1	A	3772	ASN
1	A	3888	GLN
1	A	3918	ASN
1	A	4044	GLN
1	A	4088	GLN
1	A	4137	HIS
1	A	4574	ASN
2	B	544	HIS
2	B	581	ASN

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Mol	Chain	Res	Type
2	B	658	GLN
2	B	724	HIS
2	B	764	GLN
2	B	775	GLN
2	B	791	HIS
2	B	796	ASN
2	B	885	GLN
2	B	894	ASN
2	B	923	GLN
2	B	939	ASN
2	B	975	ASN
2	B	1079	ASN
2	B	1081	GLN
2	B	1131	HIS
2	B	1135	HIS
2	B	1566	ASN
2	B	1623	ASN
2	B	1770	ASN
2	B	1870	ASN
2	B	1956	ASN
2	B	1993	GLN
2	B	2005	ASN
2	B	2038	ASN
2	B	2148	GLN
2	B	2203	ASN
2	B	2462	ASN
2	B	2476	GLN
2	B	2489	ASN
2	B	2504	GLN
2	B	2591	ASN
2	B	2724	ASN
2	B	2758	GLN
2	B	2812	ASN
2	B	2963	ASN
2	B	3042	ASN
2	B	3081	ASN
2	B	3238	HIS
2	B	3288	GLN
2	B	3301	ASN
2	B	3407	GLN
2	B	3430	ASN
2	B	3475	ASN

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Mol	Chain	Res	Type
2	B	3521	ASN
2	B	3619	ASN
2	B	3640	GLN
2	B	3820	HIS
2	B	3873	GLN
2	B	3879	ASN
2	B	4106	ASN
2	B	4152	ASN
2	B	4170	ASN
2	B	4177	GLN
2	B	4420	GLN
3	C	9	GLN
3	C	17	GLN
3	C	85	HIS
3	C	105	ASN
3	C	126	ASN
3	C	164	HIS
3	C	203	HIS
3	C	213	GLN
3	C	246	HIS
3	C	281	ASN
3	C	1051	GLN
3	C	1113	ASN
3	C	1238	GLN
3	C	1279	ASN
3	C	1340	GLN
3	C	1428	ASN
3	C	1570	GLN
3	C	1863	HIS
3	C	1888	GLN
3	C	1981	ASN
3	C	2018	GLN
3	C	2198	ASN
3	C	2207	HIS
3	C	2217	ASN
3	C	2264	ASN
3	C	2432	ASN
3	C	2483	ASN
3	C	2516	GLN
3	C	2708	GLN
3	C	2743	ASN
3	C	2828	GLN

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Mol	Chain	Res	Type
3	C	2951	ASN
3	C	3004	ASN
3	C	3103	HIS
3	C	3654	HIS
3	C	3816	GLN
3	C	3819	ASN
3	C	3958	ASN
3	C	4034	GLN
3	C	4050	GLN
4	D	144	GLN
4	D	169	ASN
4	D	174	GLN
4	D	177	ASN
4	D	294	GLN
4	D	298	ASN
4	D	356	HIS
4	D	405	ASN
4	D	413	ASN
4	D	509	ASN
4	D	510	ASN
4	D	512	HIS
4	D	572	ASN
5	E	31	GLN
5	E	42	GLN
5	E	44	ASN
5	E	59	HIS
5	E	122	GLN
5	E	237	ASN
5	E	259	ASN
5	E	325	ASN
5	E	366	HIS
5	E	377	ASN
5	E	408	HIS
5	E	481	GLN
5	E	526	GLN
6	F	36	HIS
6	F	57	ASN
6	F	64	GLN
7	G	129	GLN
7	G	149	GLN
8	H	3	HIS
8	H	36	ASN

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Mol	Chain	Res	Type
8	H	54	HIS
9	I	39	GLN
9	I	66	ASN
9	I	76	GLN
9	I	100	ASN
10	J	45	GLN
10	J	63	HIS
11	K	76	ASN
12	L	19	HIS
12	L	28	GLN
12	L	64	GLN
13	M	2	ASN
13	M	64	HIS
13	M	78	ASN
14	N	89	GLN
15	O	84	GLN
15	O	93	GLN
15	O	106	GLN
15	O	109	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 18 ligands modelled in this entry, 9 are monoatomic - leaving 9 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
20	ATP	C	4201	21	28,33,33	0.69	0	34,52,52	0.90	2 (5%)
19	ADP	A	4701	21	24,29,29	0.85	0	29,45,45	1.35	4 (13%)
20	ATP	B	5601	21	28,33,33	0.75	0	34,52,52	0.78	1 (2%)
19	ADP	C	4702	21	24,29,29	0.75	1 (4%)	29,45,45	1.25	3 (10%)
19	ADP	A	4901	21	24,29,29	0.88	1 (4%)	29,45,45	1.23	3 (10%)
19	ADP	B	5602	21	24,29,29	0.73	0	29,45,45	0.74	1 (3%)
19	ADP	B	5501	21	24,29,29	0.74	0	29,45,45	0.83	1 (3%)
20	ATP	A	4801	21	28,33,33	0.87	0	34,52,52	1.12	2 (5%)
19	ADP	C	4703	21	24,29,29	0.72	0	29,45,45	1.04	2 (6%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
20	ATP	C	4201	21	-	1/18/38/38	0/3/3/3
19	ADP	A	4701	21	-	8/12/32/32	0/3/3/3
20	ATP	B	5601	21	-	1/18/38/38	0/3/3/3
19	ADP	C	4702	21	-	5/12/32/32	0/3/3/3
19	ADP	A	4901	21	-	6/12/32/32	0/3/3/3
19	ADP	B	5602	21	-	1/12/32/32	0/3/3/3
19	ADP	B	5501	21	-	1/12/32/32	0/3/3/3
20	ATP	A	4801	21	-	3/18/38/38	0/3/3/3
19	ADP	C	4703	21	-	4/12/32/32	0/3/3/3

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	A	4901	ADP	O4'-C1'	2.03	1.43	1.40
19	C	4702	ADP	C8-N7	-2.02	1.31	1.34

All (19) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	C	4702	ADP	C4'-O4'-C1'	-4.32	105.97	109.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	A	4801	ATP	N3-C2-N1	-3.77	123.56	128.67
19	C	4703	ADP	C4'-O4'-C1'	-3.64	106.59	109.92
19	A	4901	ADP	N3-C2-N1	-3.49	123.94	128.67
19	A	4701	ADP	N3-C2-N1	-3.46	123.98	128.67
19	A	4701	ADP	C4'-O4'-C1'	3.34	112.99	109.92
19	A	4701	ADP	C4-C5-N7	-2.83	106.35	109.34
19	C	4702	ADP	C1'-N9-C4	2.72	131.41	126.64
20	A	4801	ATP	C4-C5-N7	-2.60	106.59	109.34
20	C	4201	ATP	C4'-O4'-C1'	-2.56	107.58	109.92
19	A	4901	ADP	C4-C5-N7	-2.40	106.80	109.34
19	B	5602	ADP	C5-C6-N6	2.34	123.87	120.31
20	B	5601	ATP	C5-C6-N6	2.32	123.85	120.31
19	B	5501	ADP	C5-C6-N6	2.29	123.80	120.31
20	C	4201	ATP	C5-C6-N6	2.27	123.78	120.31
19	C	4703	ADP	C5-C6-N6	2.22	123.69	120.31
19	A	4901	ADP	C4'-O4'-C1'	2.09	111.84	109.92
19	C	4702	ADP	C5-C6-N6	2.05	123.44	120.31
19	A	4701	ADP	C2'-C3'-C4'	2.02	106.51	102.61

There are no chirality outliers.

All (30) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
19	A	4701	ADP	PB-O3A-PA-O5'
19	A	4701	ADP	C5'-O5'-PA-O1A
19	A	4701	ADP	C5'-O5'-PA-O2A
19	A	4701	ADP	C5'-O5'-PA-O3A
19	A	4901	ADP	PB-O3A-PA-O5'
19	A	4901	ADP	C5'-O5'-PA-O2A
19	A	4901	ADP	C5'-O5'-PA-O3A
19	B	5501	ADP	C4'-C5'-O5'-PA
19	C	4702	ADP	C5'-O5'-PA-O1A
19	C	4702	ADP	C5'-O5'-PA-O2A
19	C	4702	ADP	C5'-O5'-PA-O3A
19	C	4703	ADP	O4'-C4'-C5'-O5'
19	C	4702	ADP	C3'-C4'-C5'-O5'
19	A	4901	ADP	O4'-C4'-C5'-O5'
19	C	4702	ADP	O4'-C4'-C5'-O5'
20	A	4801	ATP	O4'-C4'-C5'-O5'
19	C	4703	ADP	C3'-C4'-C5'-O5'
19	A	4701	ADP	O4'-C4'-C5'-O5'
19	A	4901	ADP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
20	A	4801	ATP	C3'-C4'-C5'-O5'
19	A	4901	ADP	C5'-O5'-PA-O1A
19	A	4701	ADP	C4'-C5'-O5'-PA
19	C	4703	ADP	PB-O3A-PA-O1A
19	A	4701	ADP	PB-O3A-PA-O1A
19	A	4701	ADP	PB-O3A-PA-O2A
20	A	4801	ATP	PB-O3A-PA-O2A
20	B	5601	ATP	O4'-C4'-C5'-O5'
19	B	5602	ADP	C4'-C5'-O5'-PA
19	C	4703	ADP	PB-O3A-PA-O2A
20	C	4201	ATP	PA-O3A-PB-O2B

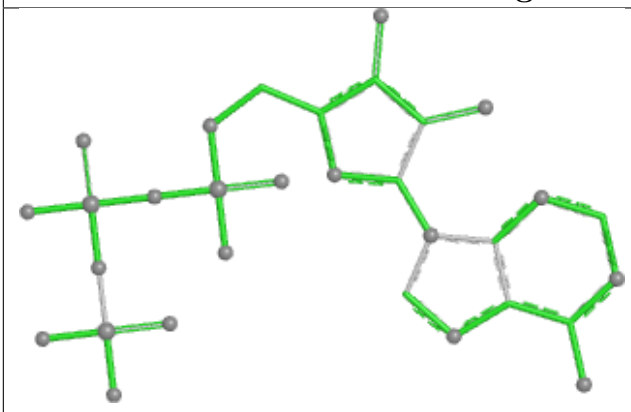
There are no ring outliers.

9 monomers are involved in 136 short contacts:

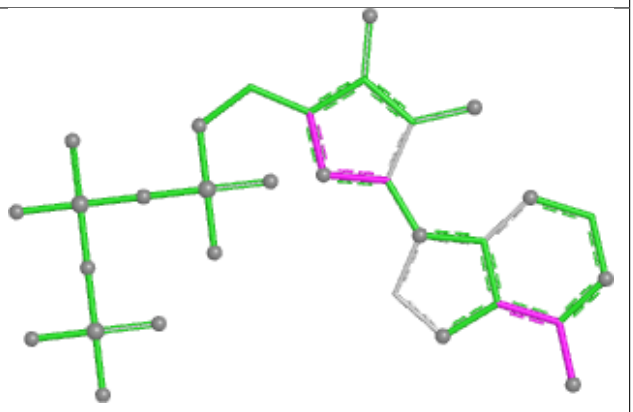
Mol	Chain	Res	Type	Clashes	Symm-Clashes
20	C	4201	ATP	2	0
19	A	4701	ADP	12	0
20	B	5601	ATP	43	0
19	C	4702	ADP	25	0
19	A	4901	ADP	19	0
19	B	5602	ADP	2	0
19	B	5501	ADP	16	0
20	A	4801	ATP	10	0
19	C	4703	ADP	7	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

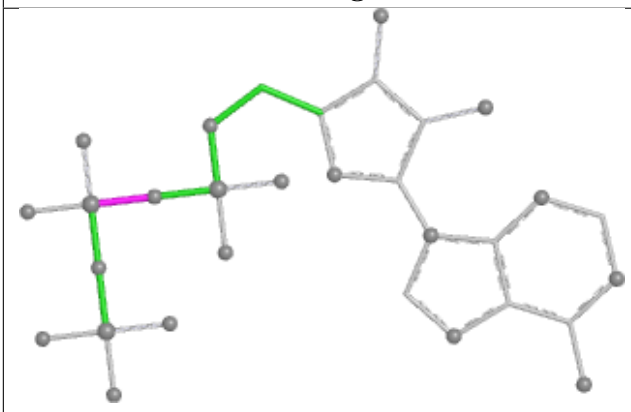
Ligand ATP C 4201



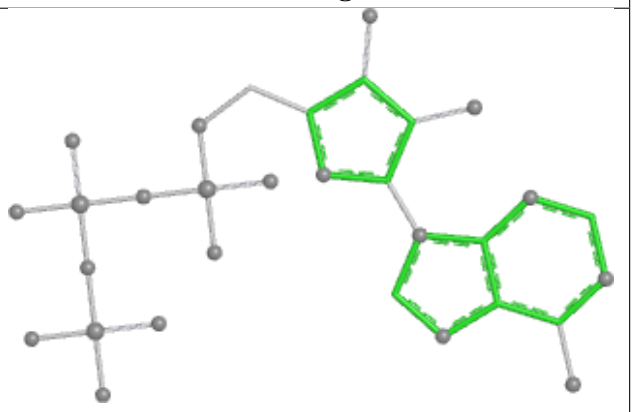
Bond lengths



Bond angles

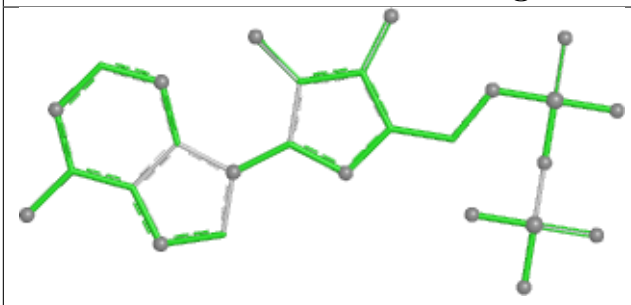


Torsions

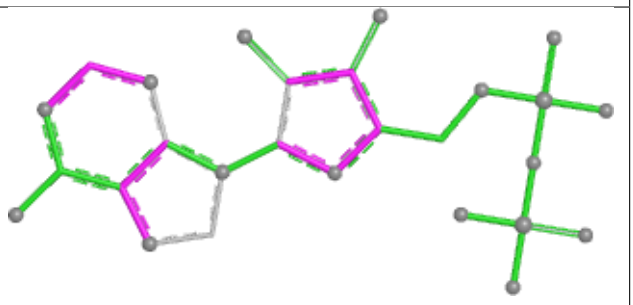


Rings

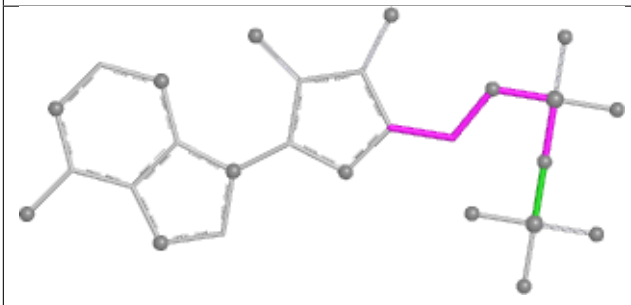
Ligand ADP A 4701



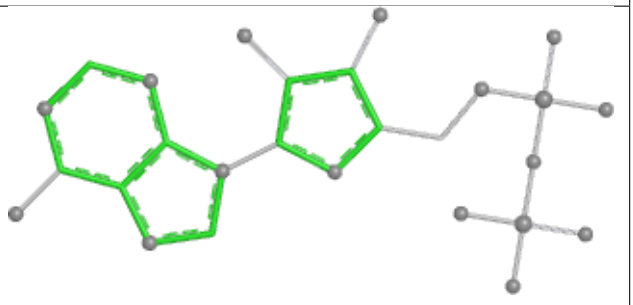
Bond lengths



Bond angles

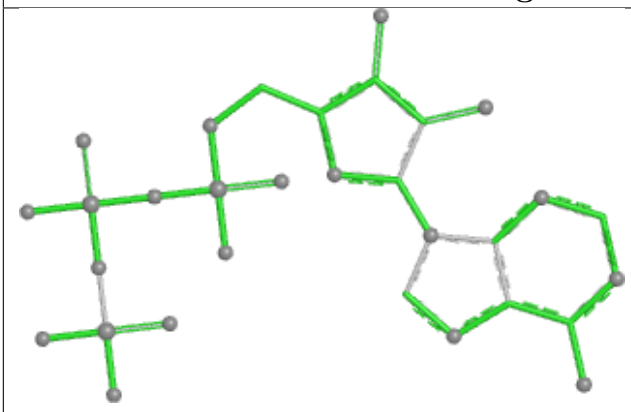


Torsions

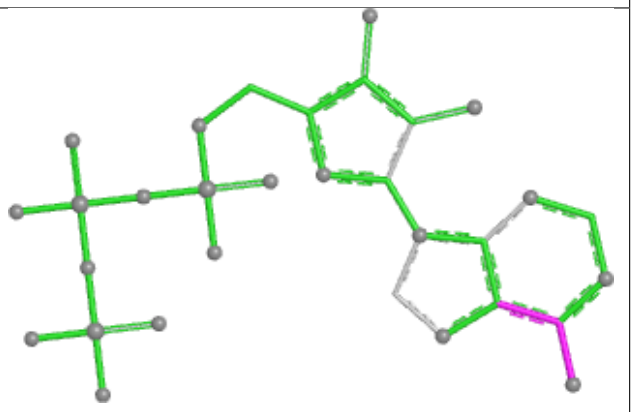


Rings

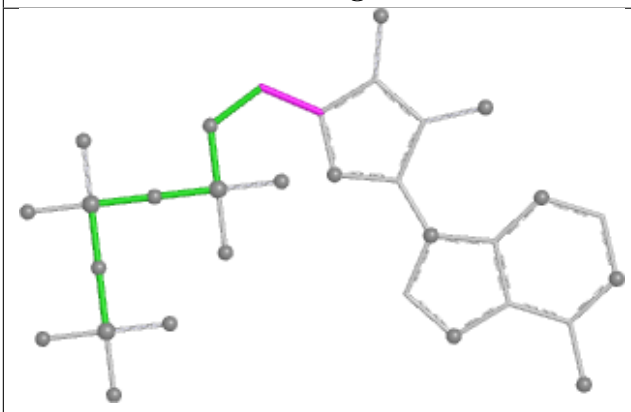
Ligand ATP B 5601



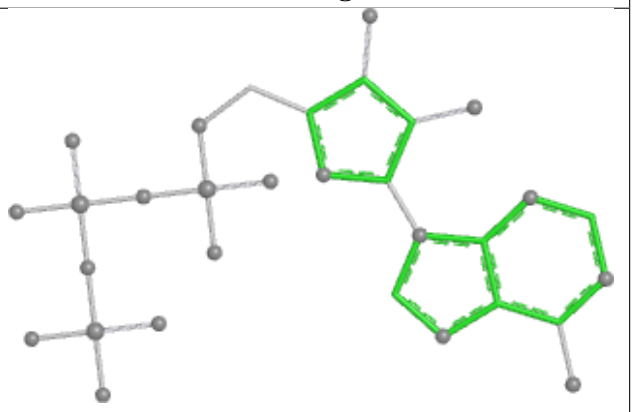
Bond lengths



Bond angles

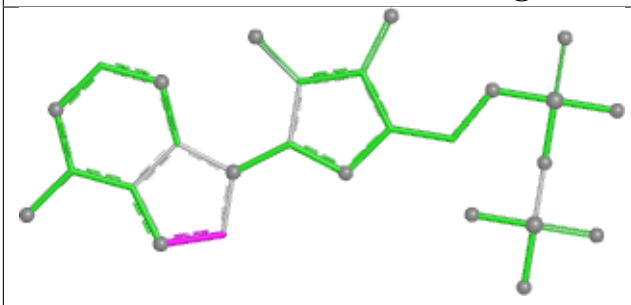


Torsions

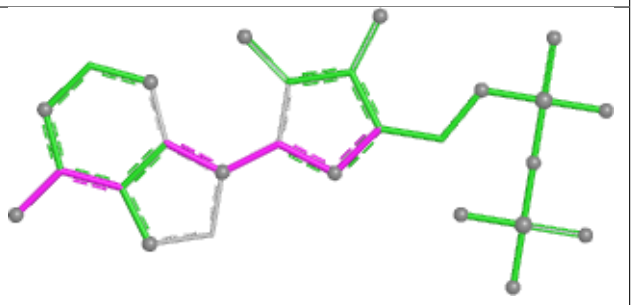


Rings

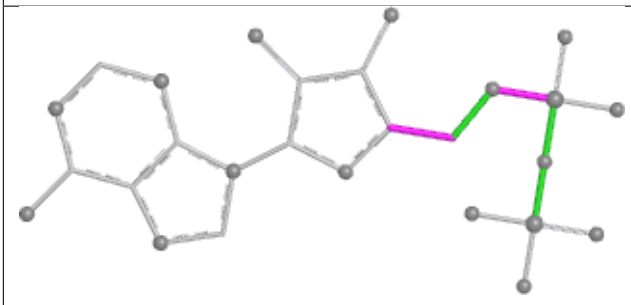
Ligand ADP C 4702



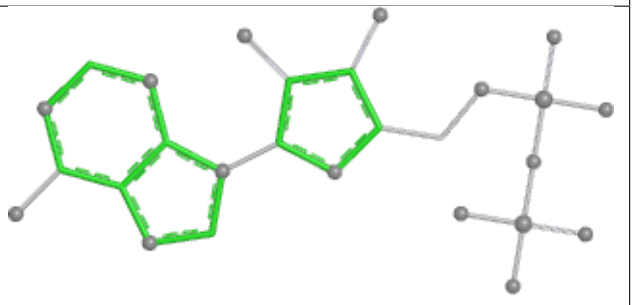
Bond lengths



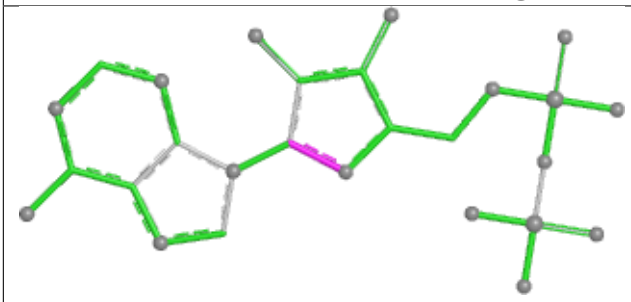
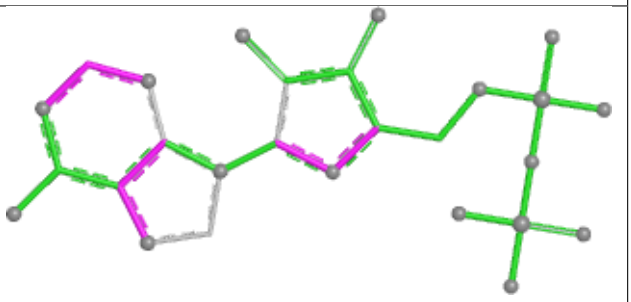
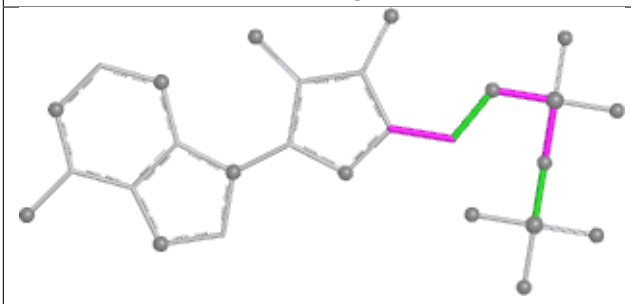
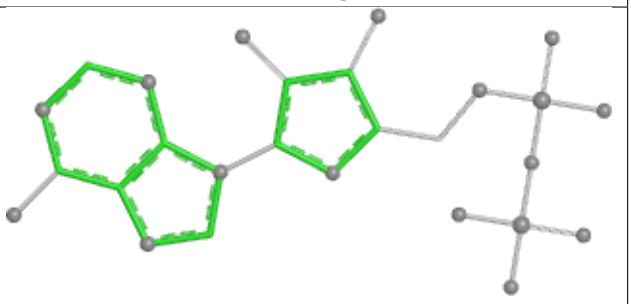
Bond angles



Torsions



Rings

Ligand ADP A 4901	
 Bond lengths	 Bond angles
 Torsions	 Rings

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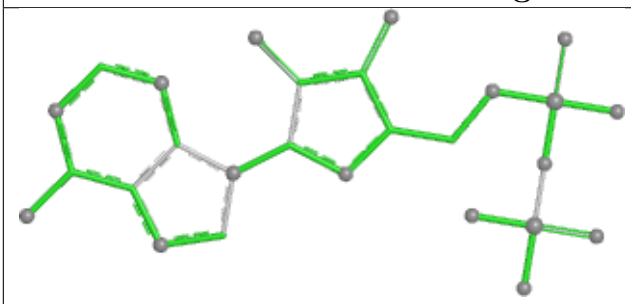
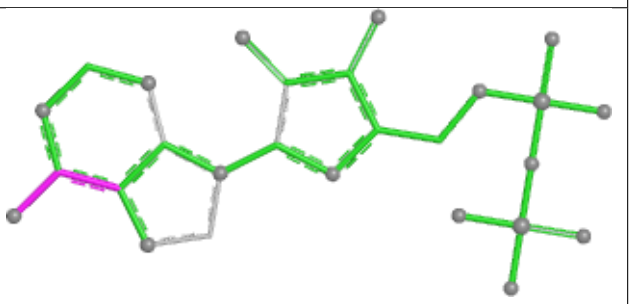
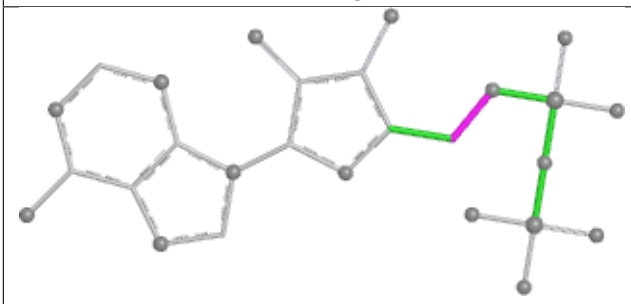
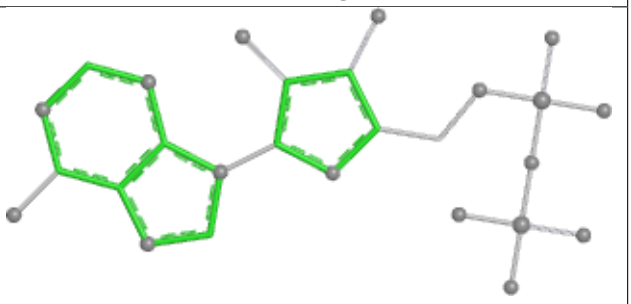
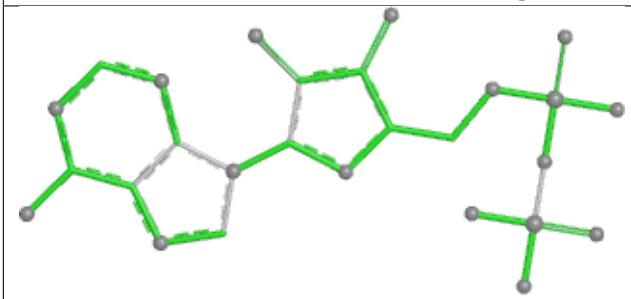
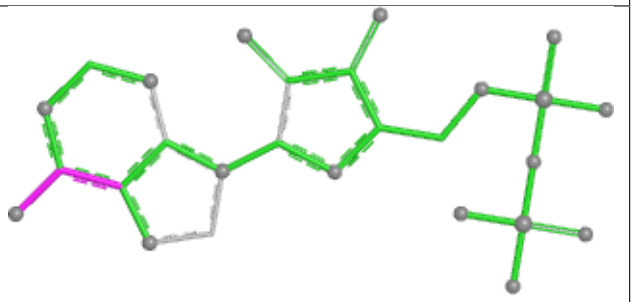
 Bond lengths	 Bond angles
 Torsions	 Rings

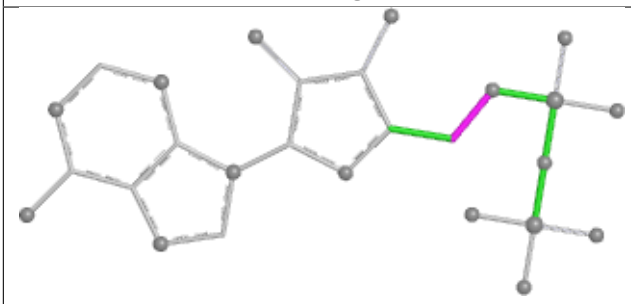
Ligand ADP B 5501



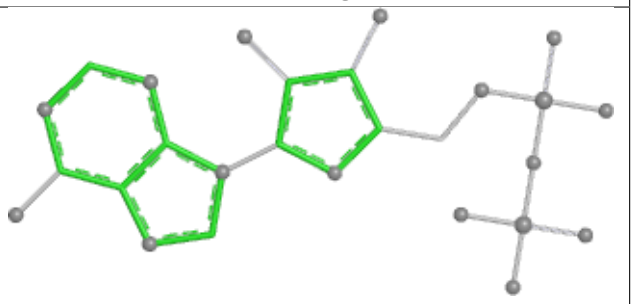
Bond lengths



Bond angles

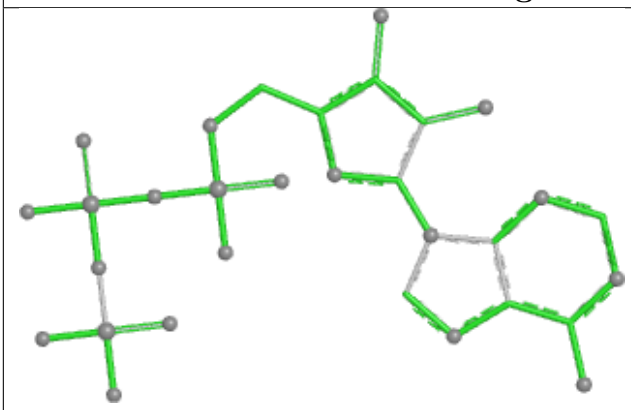


Torsions

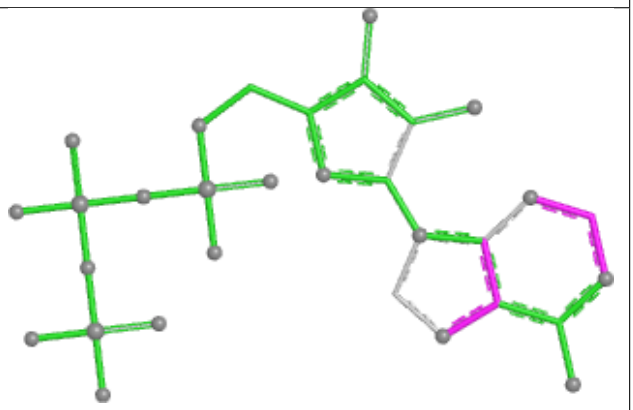


Rings

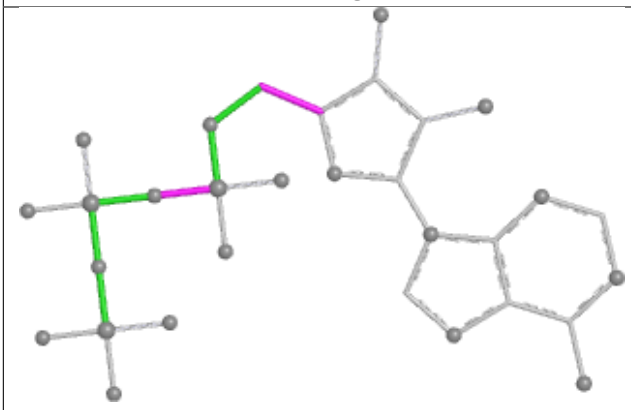
Ligand ATP A 4801



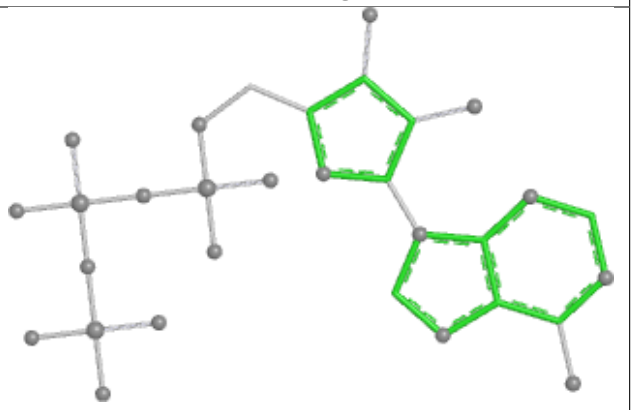
Bond lengths



Bond angles

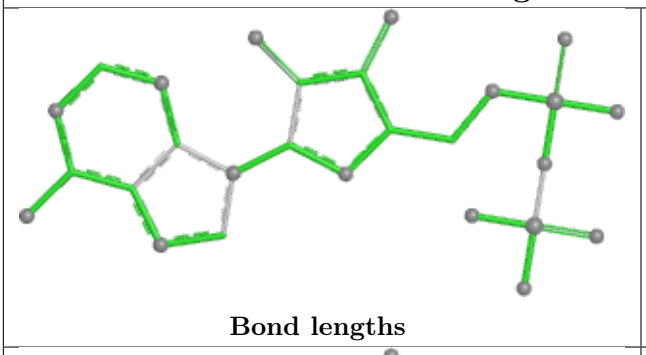


Torsions

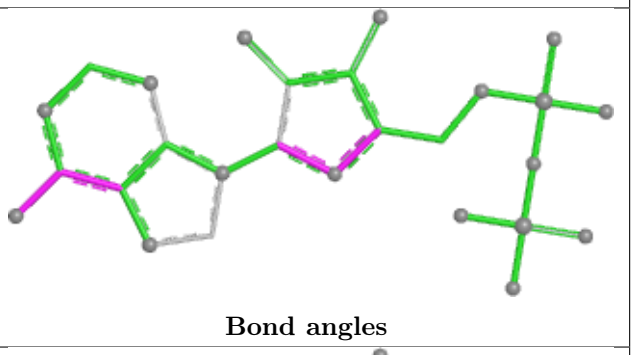


Rings

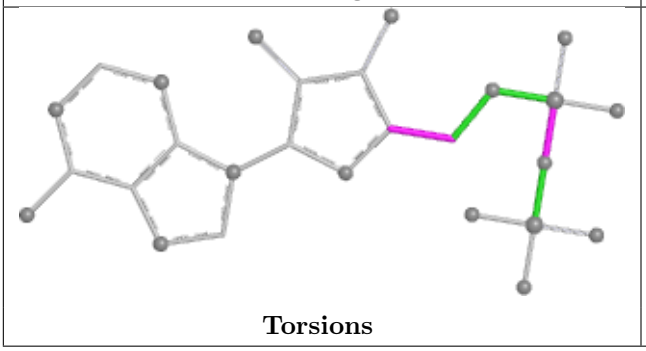
Ligand ADP C 4703



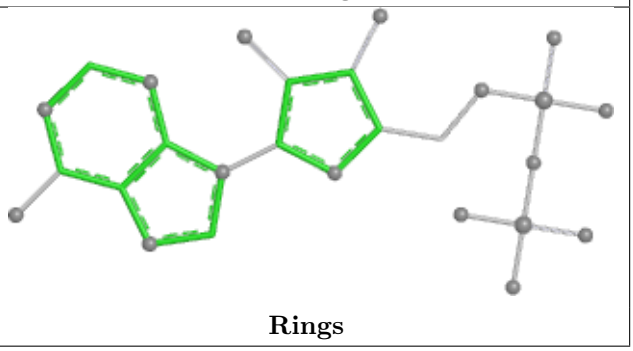
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	12
3	C	11
2	B	11
16	P	4
4	D	2
7	G	1
18	R	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	C	3277:MET	C	3380:MET	N	42.67
1	A	1235:PRO	C	1246:MET	N	14.08
1	C	809:ARG	C	818:ILE	N	13.93
1	C	449:TYR	C	452:ASN	N	13.33

Continued on next page...

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	C	665:ILE	C	670:SER	N	11.69
1	C	546:LYS	C	629:ASN	N	9.90
1	C	483:ASN	C	492:GLY	N	7.26
1	C	361:PRO	C	364:ILE	N	7.14
1	B	4297:ASP	C	4303:ILE	N	6.68
1	C	1061:PHE	C	1066:GLU	N	6.25
1	A	3250:PRO	C	3251:ILE	N	5.80
1	A	1408:LYS	C	1410:LEU	N	5.05
1	C	706:LYS	C	710:LYS	N	4.95
1	A	3251:ILE	C	3252:GLN	N	4.89
1	A	4489:GLY	C	4493:GLY	N	3.79
1	A	24:LYS	C	25:ASP	N	3.36
1	C	2780:VAL	C	2783:ALA	N	3.25
1	B	79:PRO	C	80:PRO	N	3.22
1	C	1186:THR	C	1188:LEU	N	3.05
1	D	216:HIS	C	217:GLN	N	2.93
1	A	115:ASP	C	116:ASN	N	2.81
1	A	40:LEU	C	41:LEU	N	2.75
1	A	5:LYS	C	6:TYR	N	2.67
1	A	53:ILE	C	54:PHE	N	2.45
1	G	58:SER	C	59:GLU	N	2.19
1	B	50:GLN	C	51:GLY	N	2.17
1	P	39:TRP	C	40:SER	N	2.17
1	B	52:PHE	C	53:ILE	N	2.15
1	B	70:LYS	C	71:CYS	N	2.10
1	D	238:SER	C	239:THR	N	2.02
1	P	15:SER	C	16:GLU	N	1.81
1	B	799:VAL	C	800:LYS	N	1.72
1	R	82:ALA	C	83:ASN	N	1.71
1	A	943:THR	C	944:LEU	N	1.69
1	B	55:GLN	C	56:ASP	N	1.60
1	P	61:GLU	C	62:LYS	N	1.60
1	B	99:LEU	C	100:THR	N	1.19
1	B	49:PHE	C	50:GLN	N	1.18
1	B	56:ASP	C	57:ASN	N	0.96
1	A	1649:ALA	C	1650:LEU	N	0.94
1	P	62:LYS	C	63:ARG	N	0.63
1	B	59:THR	C	60:ASN	N	0.44

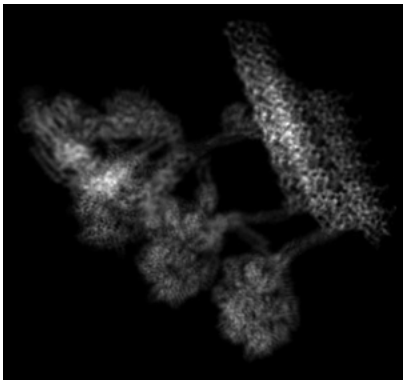
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-22679. These allow visual inspection of the internal detail of the map and identification of artifacts.

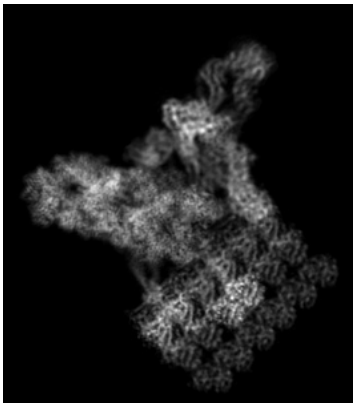
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

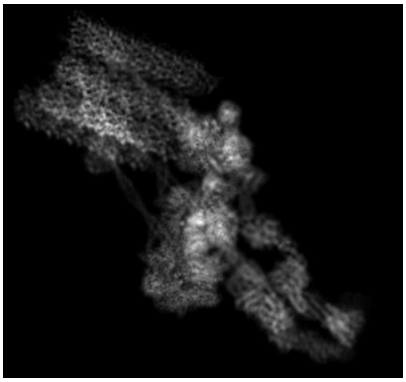
6.1.1 Primary map



X



Y

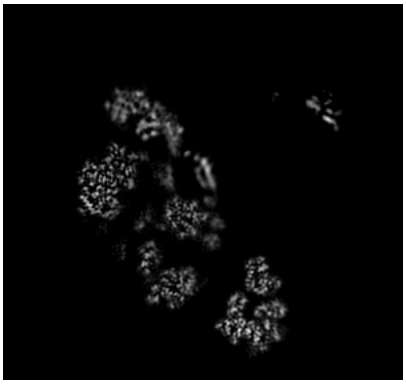


Z

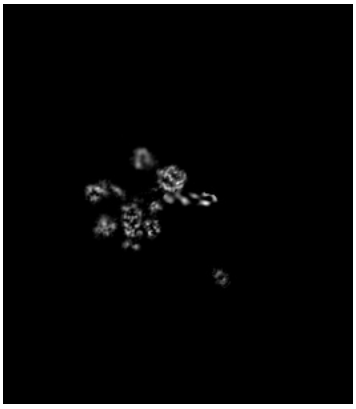
The images above show the map projected in three orthogonal directions.

6.2 Central slices

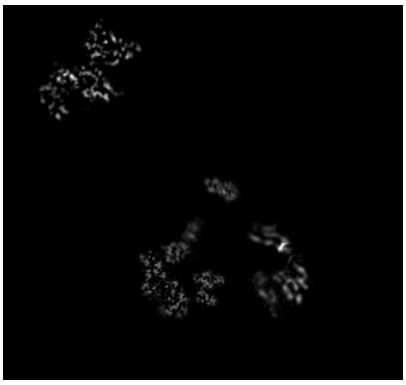
6.2.1 Primary map



X Index: 198



Y Index: 185

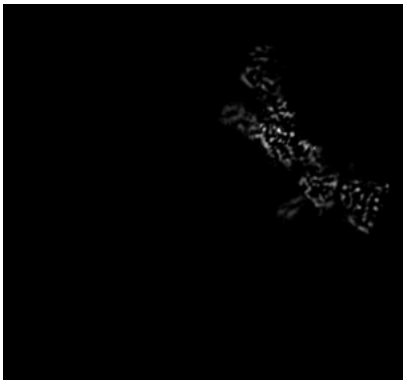


Z Index: 173

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

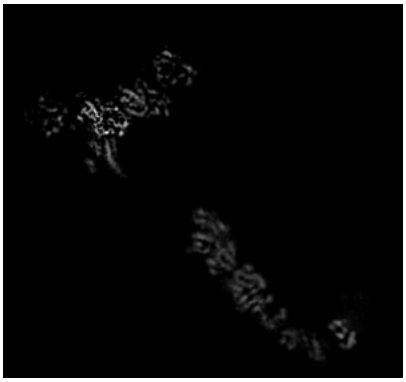
6.3 Largest variance slices (i)

6.3.1 Primary map



X Index: 97

Y Index: 249

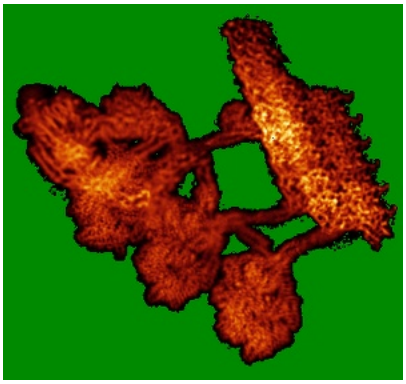


Z Index: 228

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

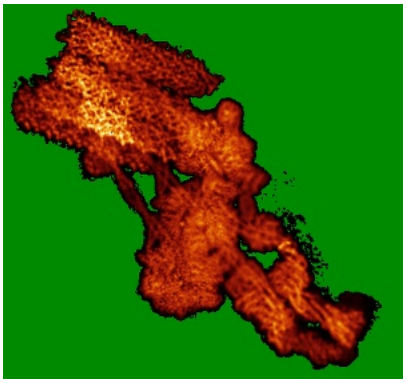
6.4 Orthogonal standard-deviation projections (False-color) (i)

6.4.1 Primary map



X

Y



Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.7. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

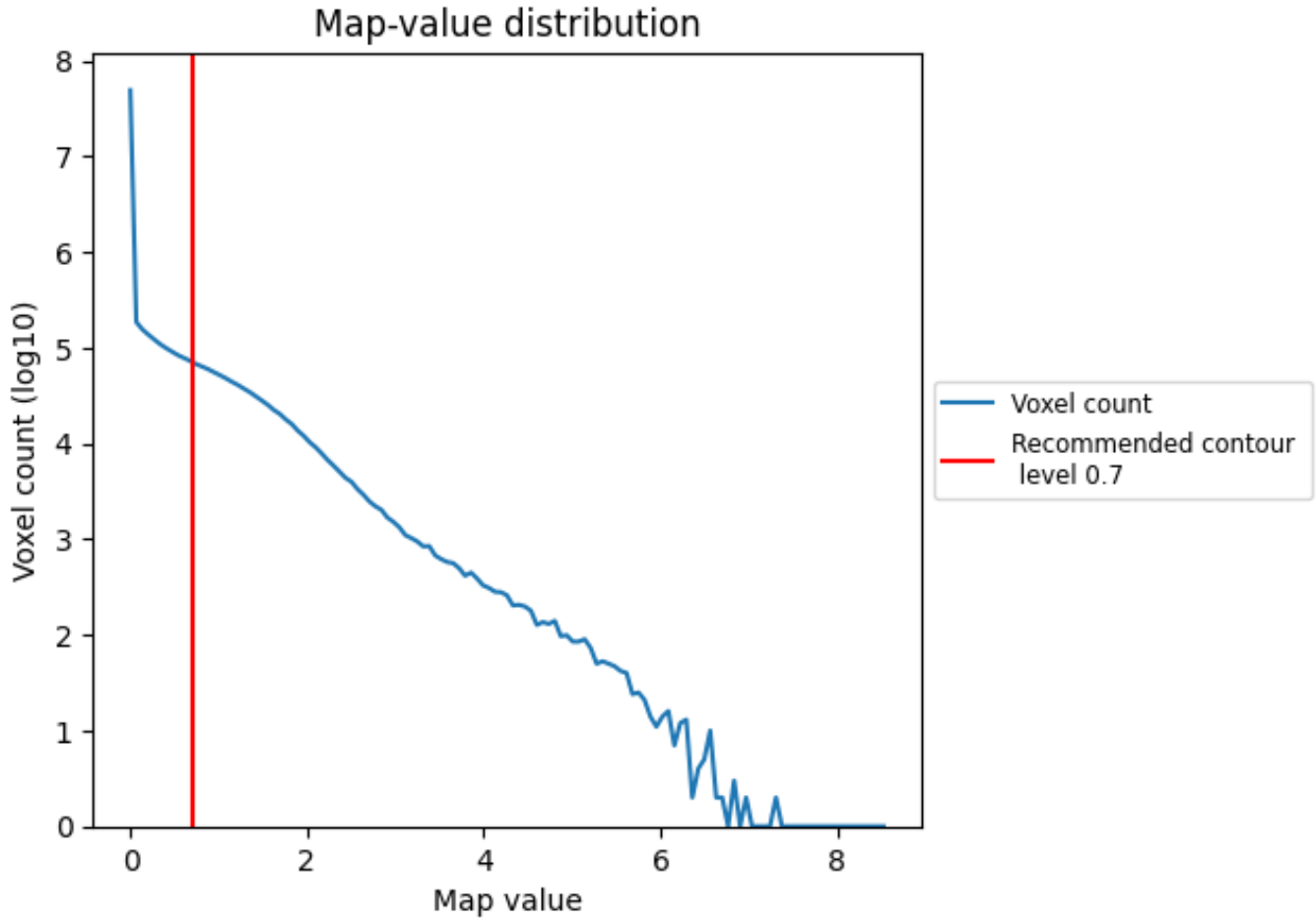
6.6 Mask visualisation (i)

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

7 Map analysis

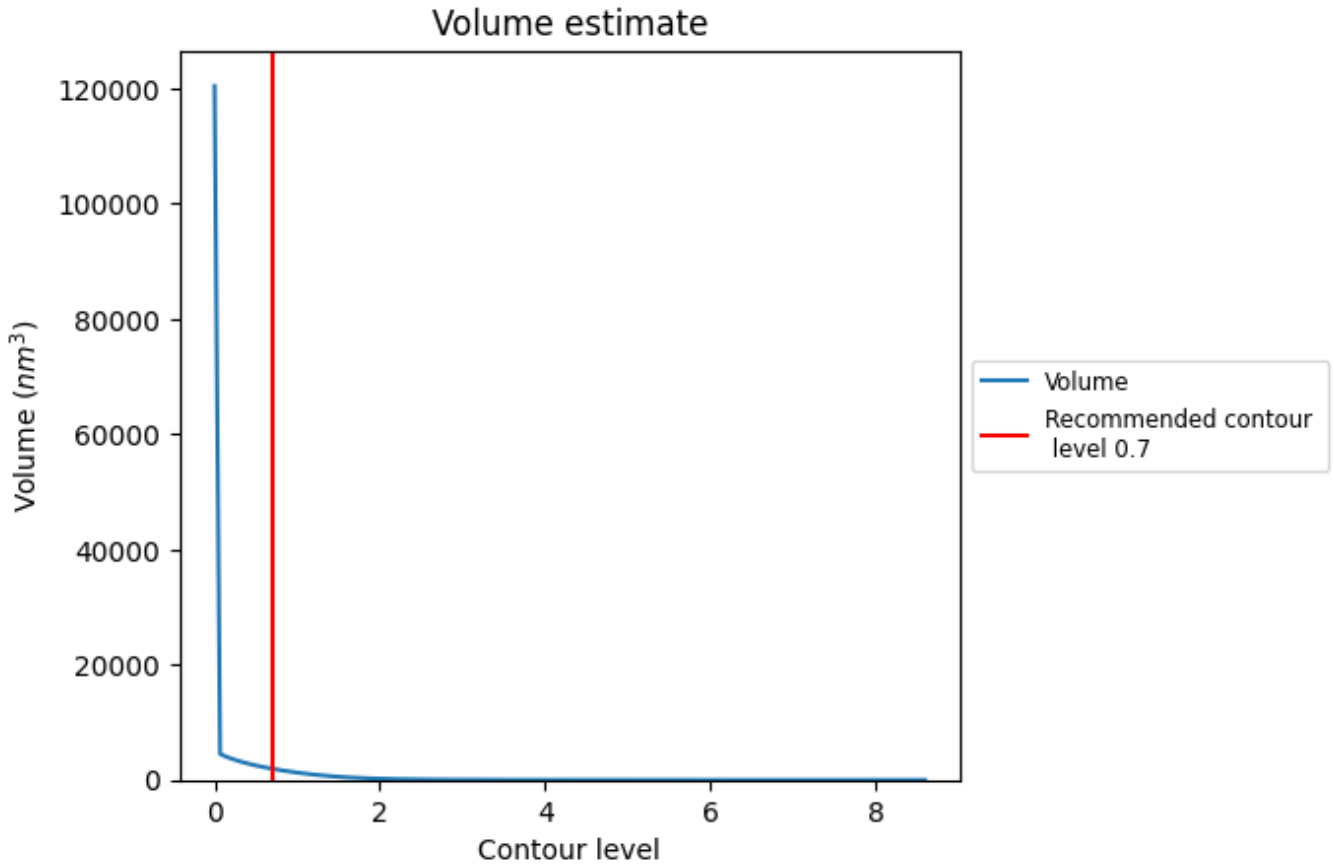
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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



The volume at the recommended contour level is 1940 nm^3; this corresponds to an approximate mass of 1753 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

This section was not generated. The rotationally averaged power spectrum is only generated for cubic maps.

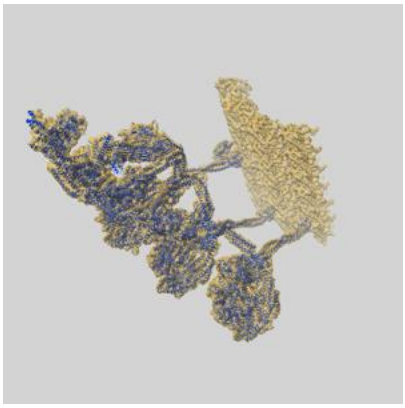
8 Fourier-Shell correlation

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

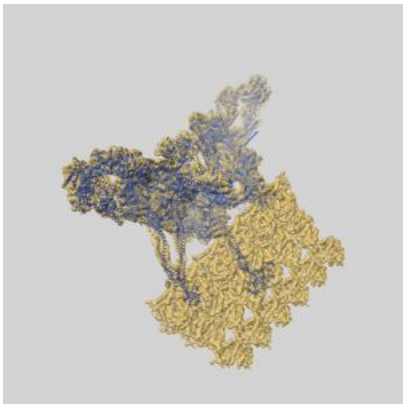
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-22679 and PDB model 7K5B. Per-residue inclusion information can be found in section 3 on page 9.

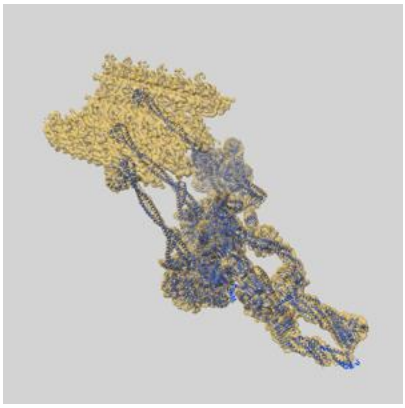
9.1 Map-model overlay



X



Y



Z

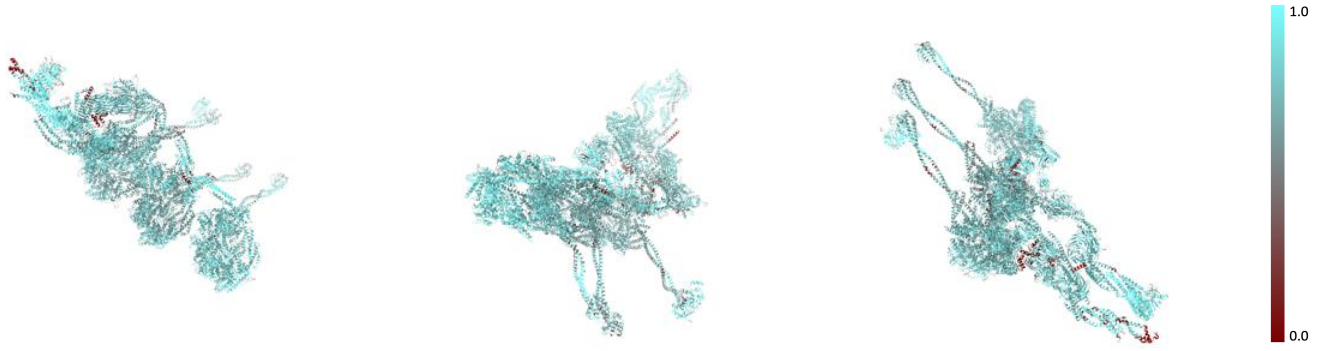
The images above show the 3D surface view of the map at the recommended contour level 0.7 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model (i)

X Y Z

The images above show the model with each residue coloured according 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.

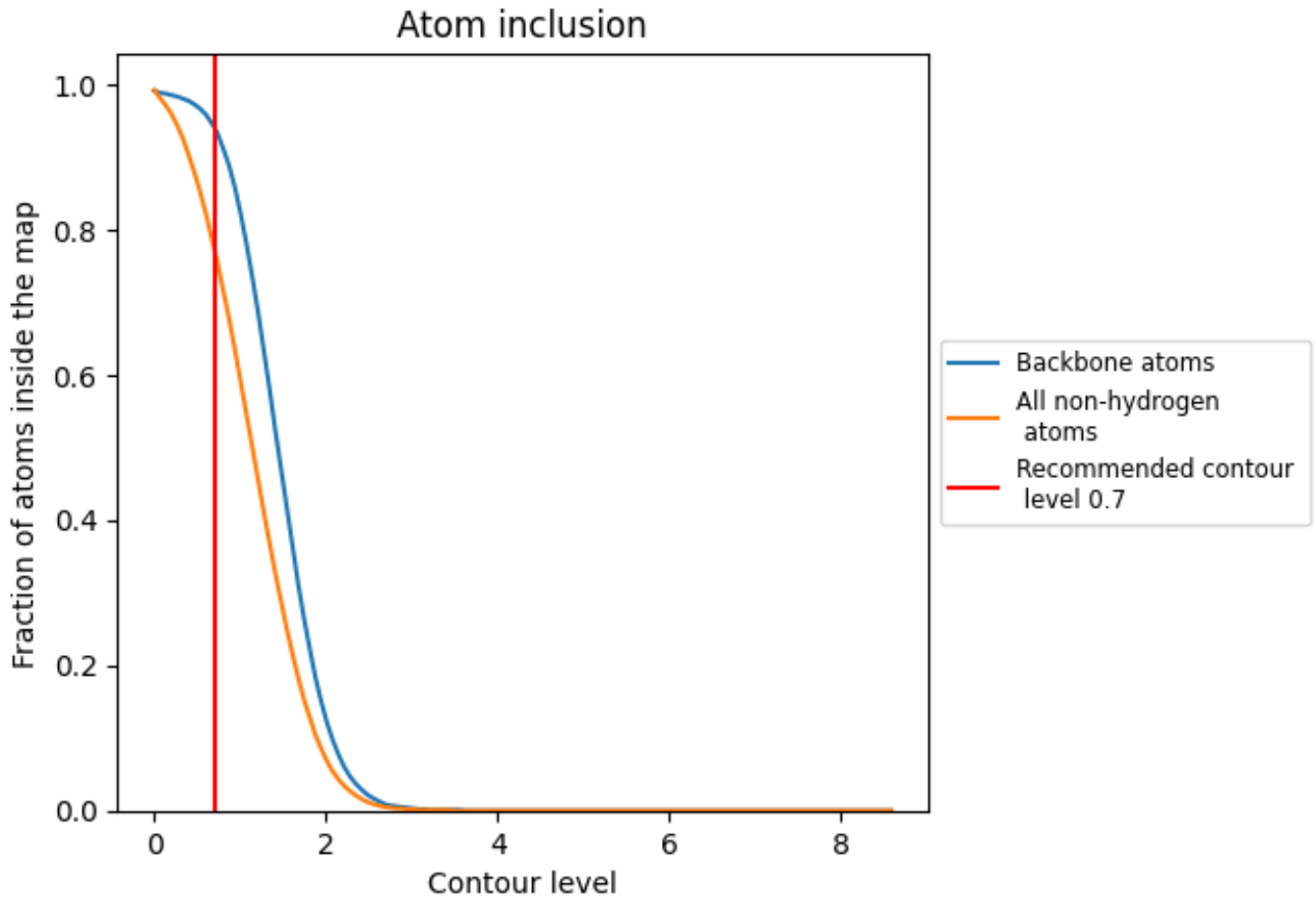
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.7).

9.4 Atom inclusion (i)



At the recommended contour level, 94% of all backbone atoms, 77% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.7) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7740	0.2640
A	0.7590	0.2830
B	0.7570	0.2730
C	0.8180	0.2860
D	0.8030	0.2060
E	0.8280	0.2060
F	0.7010	0.1850
G	0.6180	0.1440
H	0.7740	0.1860
I	0.8050	0.1730
J	0.7950	0.1850
K	0.8070	0.1780
L	0.6570	0.1780
M	0.7680	0.1590
N	0.7670	0.1640
O	0.7500	0.1440
P	0.8910	0.1510
Q	0.8490	0.2450
R	0.0270	-0.0320