Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 07:21 PM GMT

PDB ID	:	4O9Y
Title	:	Crystal Structure of TcdA1
Authors	:	Meusch, D.; Gatsogiannis, C.; Efremov, R.G.; Lang, A.E.; Hofnagel, O.; Vetter, I.R.; Aktories, K.; Raunser, S.
Deposited on	:	2014-01-03
Resolution	:	3.50 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
http://wwpdb.org/validation/2016/XrayValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see references ①) were used in the production of this report:

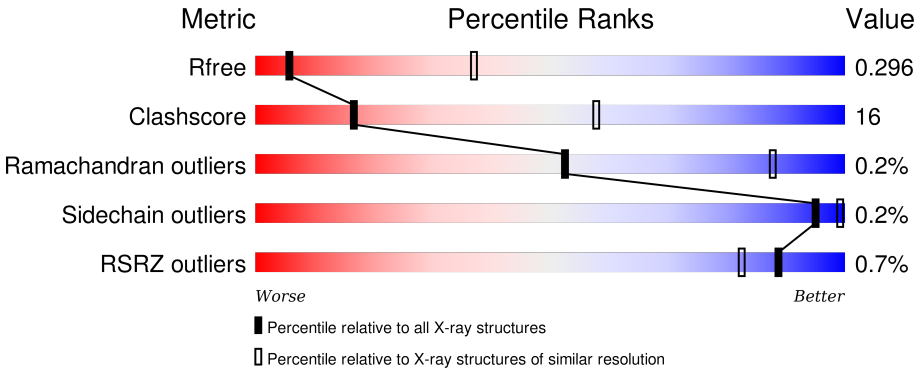
MolProbity	:	4.02b-467
Mogul	:	1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix)	:	1.9-1692
EDS	:	rb-20026688
Percentile statistics	:	20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac	:	5.8.0135
CCP4	:	6.5.0
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	trunk26865

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.50 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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	91344	1051 (3.60-3.40)
Clashscore	102246	1157 (3.60-3.40)
Ramachandran outliers	100387	1120 (3.60-3.40)
Sidechain outliers	100360	1121 (3.60-3.40)
RSRZ outliers	91569	1058 (3.60-3.40)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria. 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 electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	2516	63% 35%
1	B	2516	64% 35%
1	C	2516	% 64% 35%
1	D	2516	% 65% 34%
1	E	2516	64% 34%

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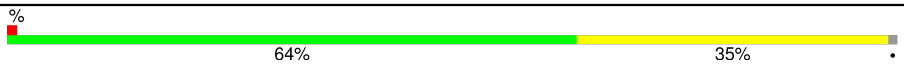
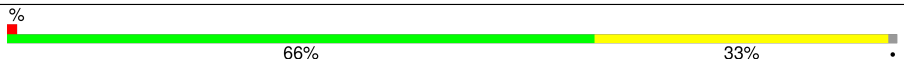
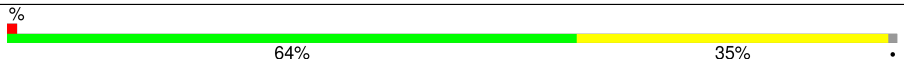
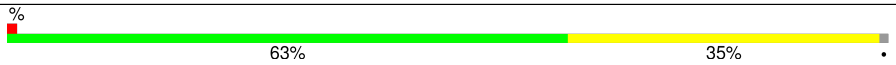
Mol	Chain	Length	Quality of chain
1	F	2516	
1	G	2516	
1	H	2516	
1	I	2516	
1	J	2516	

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 197663 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called TcdA1.

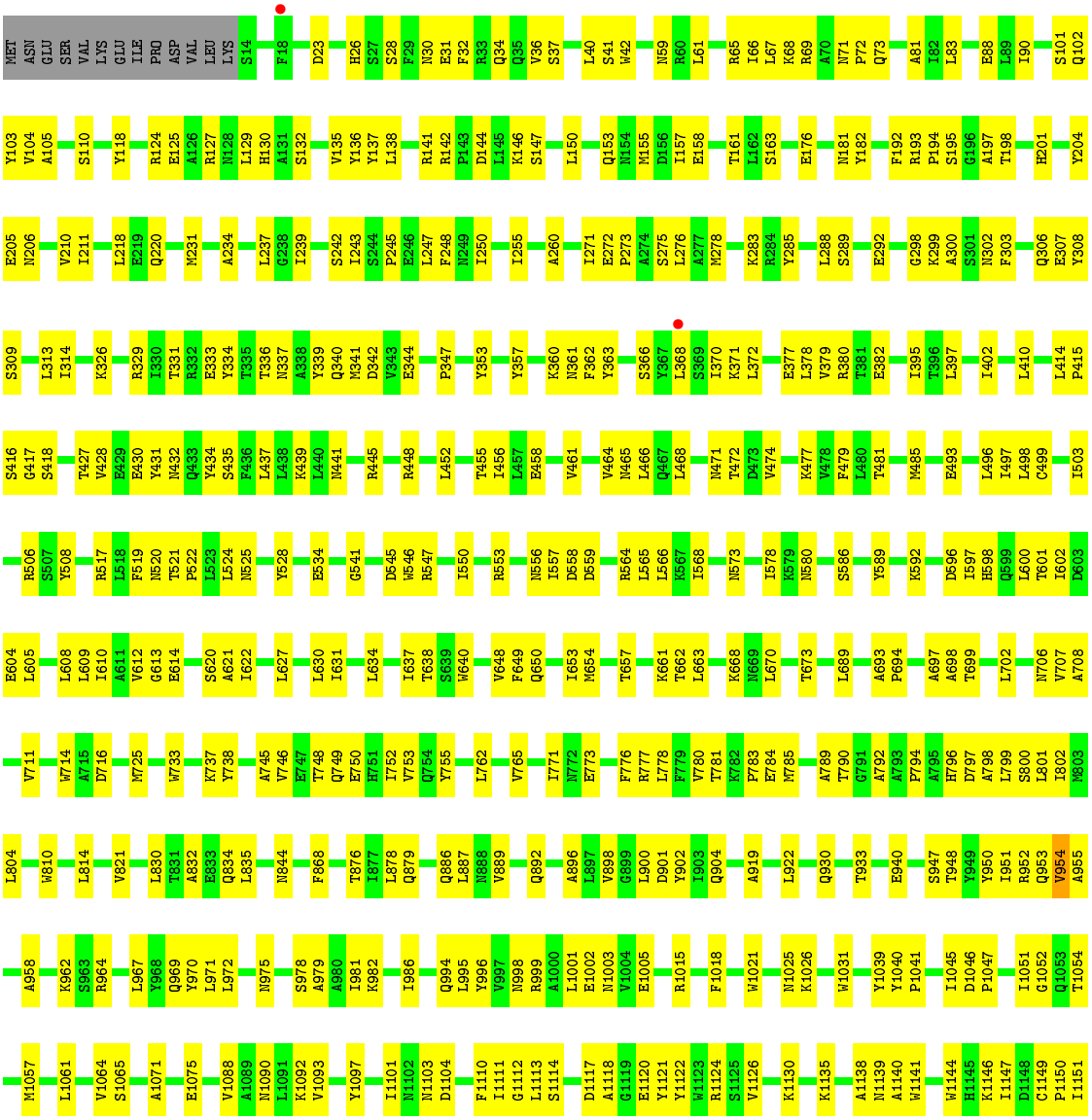
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	2490	Total	C	N	O	S	0	0	0
			19768	12508	3364	3833	63			
1	B	2490	Total	C	N	O	S	0	0	0
			19768	12508	3364	3833	63			
1	C	2490	Total	C	N	O	S	0	0	0
			19768	12508	3364	3833	63			
1	D	2490	Total	C	N	O	S	0	0	0
			19768	12508	3364	3833	63			
1	E	2490	Total	C	N	O	S	0	0	0
			19768	12508	3364	3833	63			
1	F	2490	Total	C	N	O	S	0	0	0
			19768	12508	3364	3833	63			
1	G	2488	Total	C	N	O	S	0	0	0
			19751	12499	3359	3830	63			
1	H	2490	Total	C	N	O	S	0	0	0
			19768	12508	3364	3833	63			
1	I	2490	Total	C	N	O	S	0	0	0
			19768	12508	3364	3833	63			
1	J	2490	Total	C	N	O	S	0	0	0
			19768	12508	3364	3833	63			

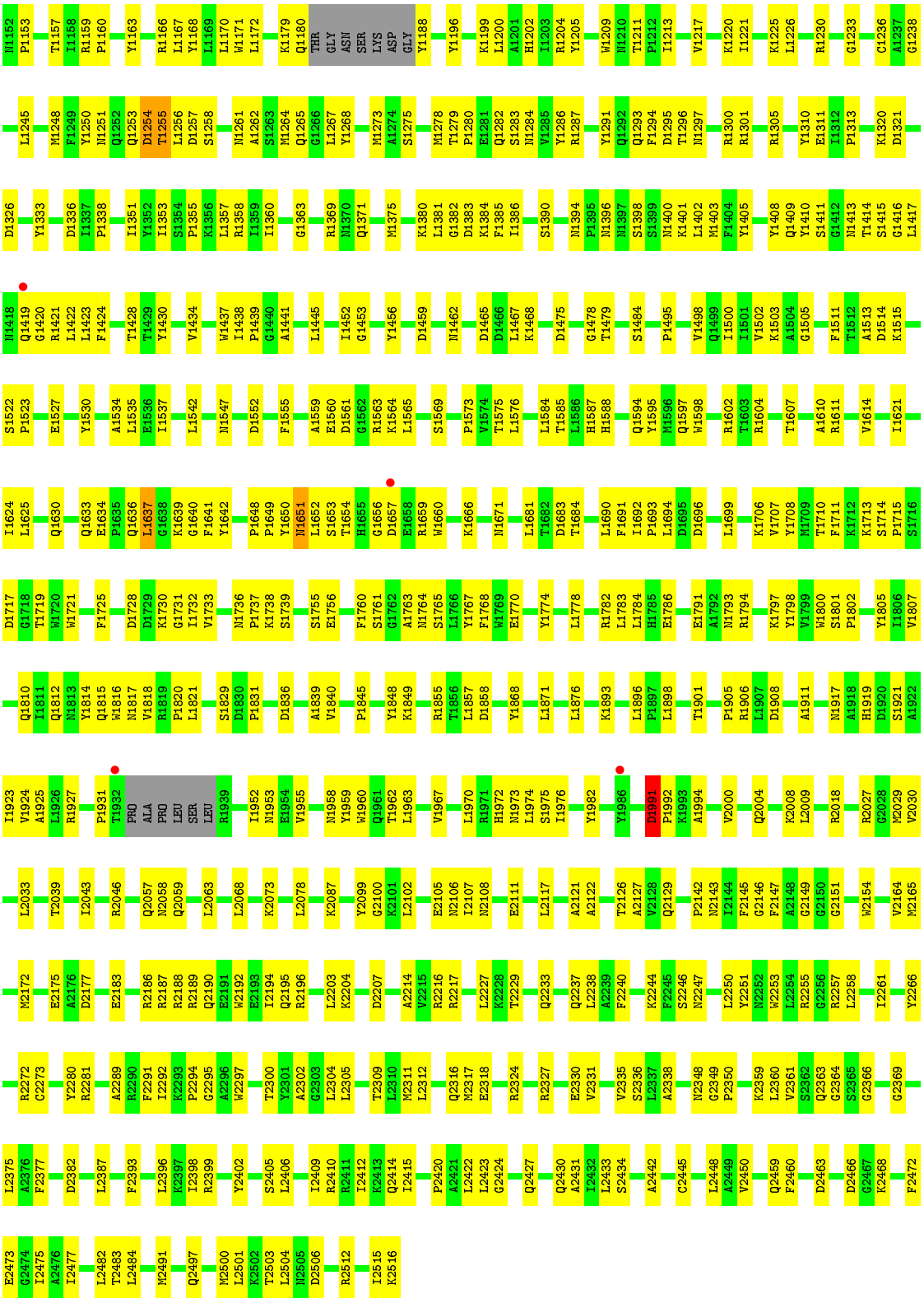
3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron 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 dot above a residue indicates a poor fit to the electron density (RSRZ > 2). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: TcdA1

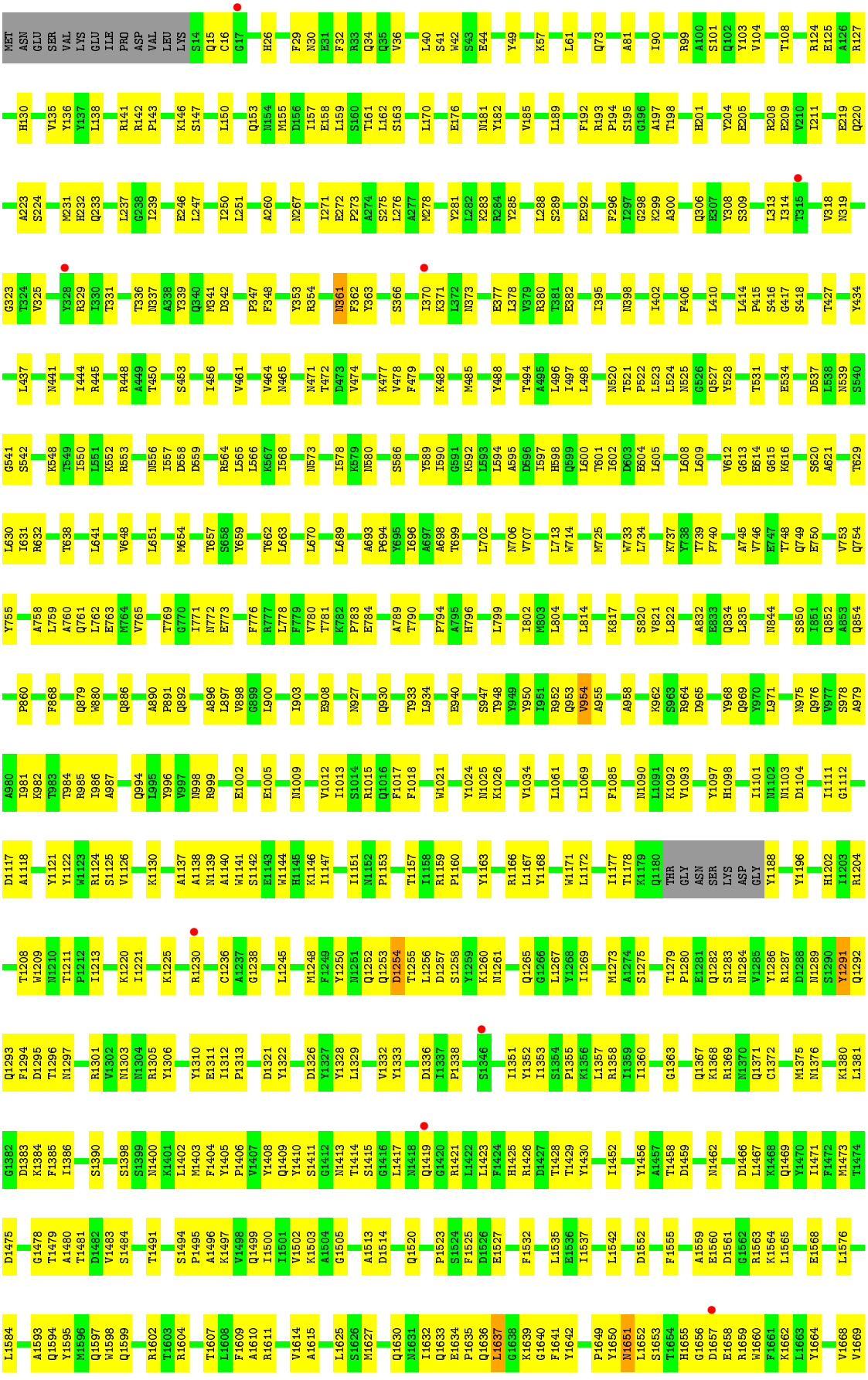
Chain A:

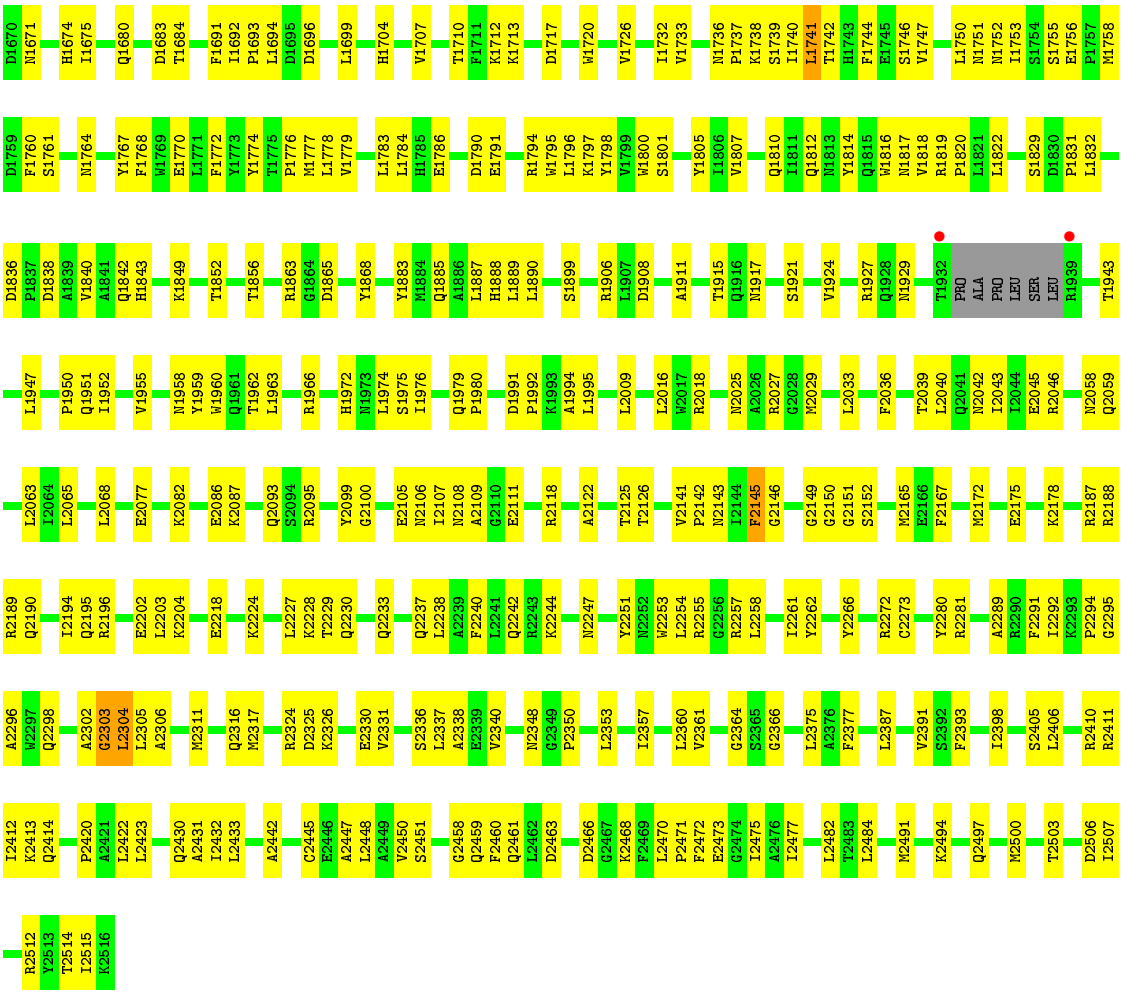




- Molecule 1: TcdA1

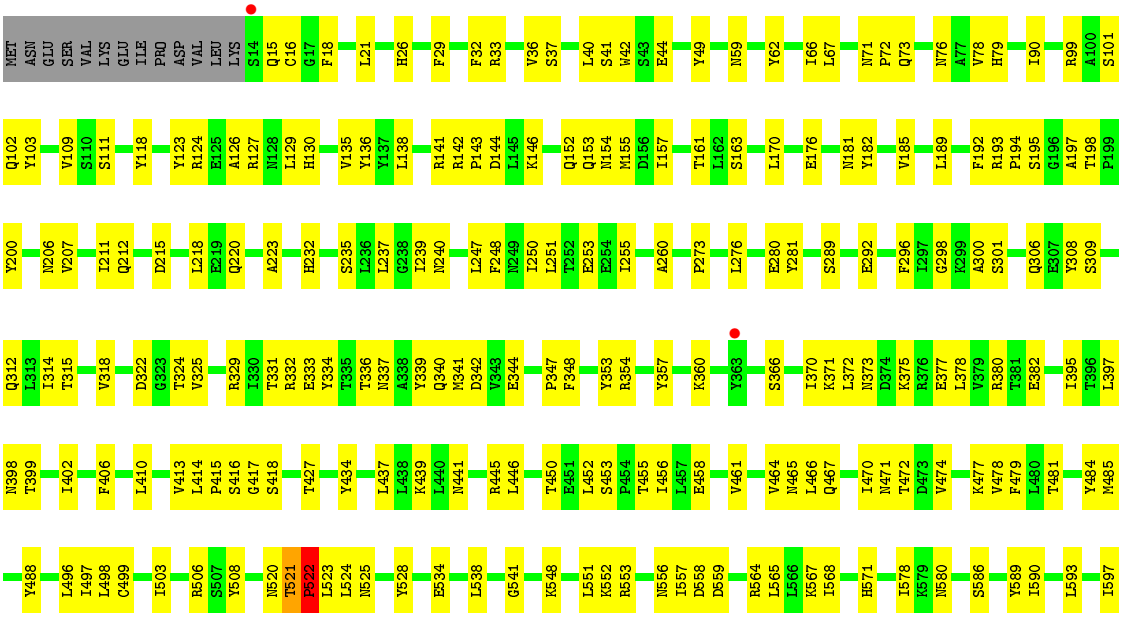
Chain B:

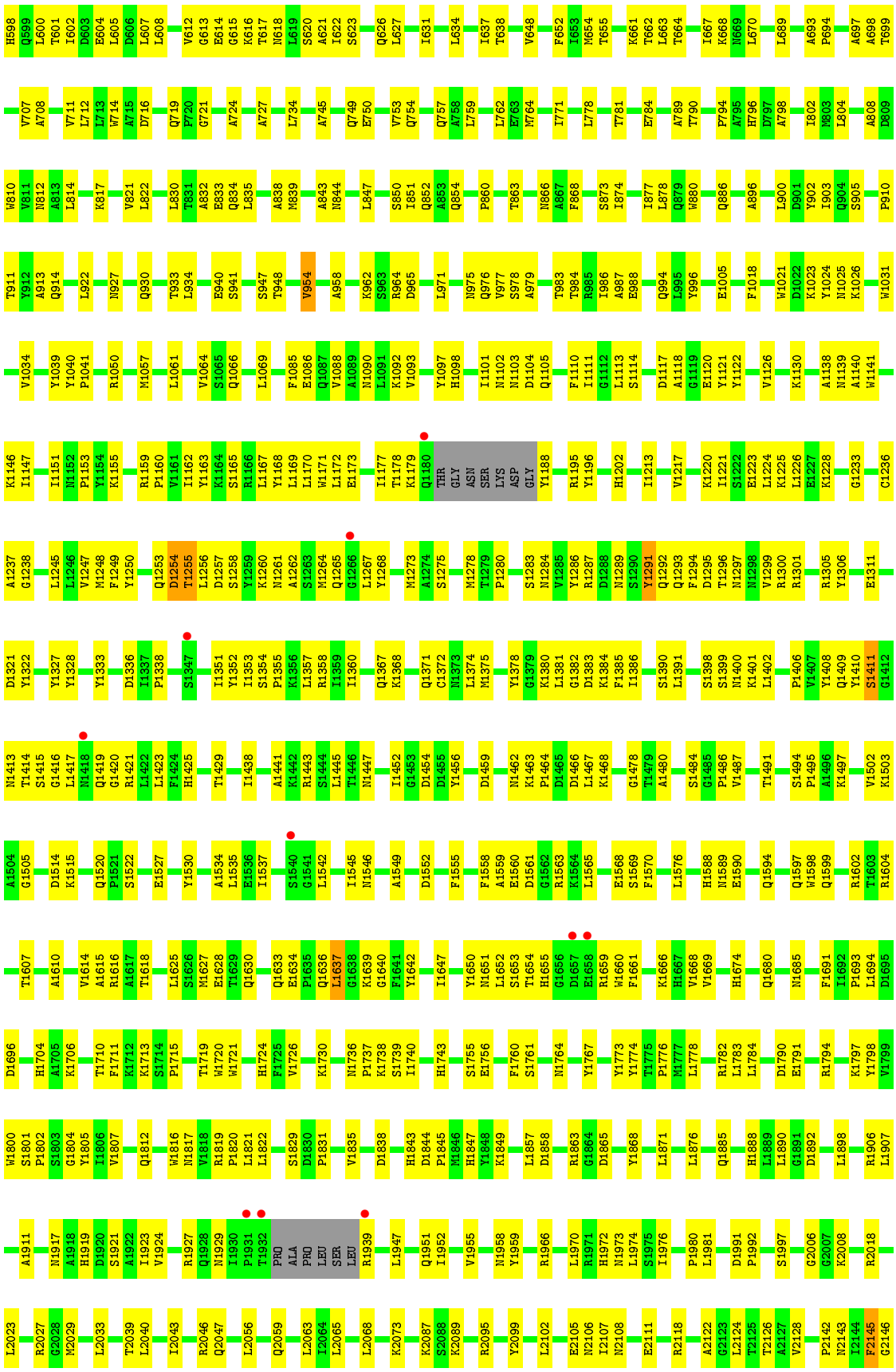




- Molecule 1: TcdA1

Chain C:

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V707 A708 V711 L712 L713 W714 A715 D716 Q719 P720 G721 A724 A727 L734 A745 Q749 E750 V753 Q754 Q757 A758 L759 L762 E763 M764 I771 L778 T781 E784 A789 T790 P794 A795 H796 D797 A798 I802 M803 L804 A808 D809
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T1607 A1610 V1614 A1615 R1616 A1617 T1618 L1625 S1626 M1627 E1628 T1629 Q1630 Q1633 E1634 P1635 Q1636 L1637 G1638 K1639 G1640 F1641 Y1642 I1647 Y1650 N1651 L1652 S1653 T1654 H1655 G1656 D1657 E1658 R1659 W1660 F1661 K1666 H1667 V1668 V1669 H1674 Q1680 N1685 F1691 I1692 P1693 L1694 D1695
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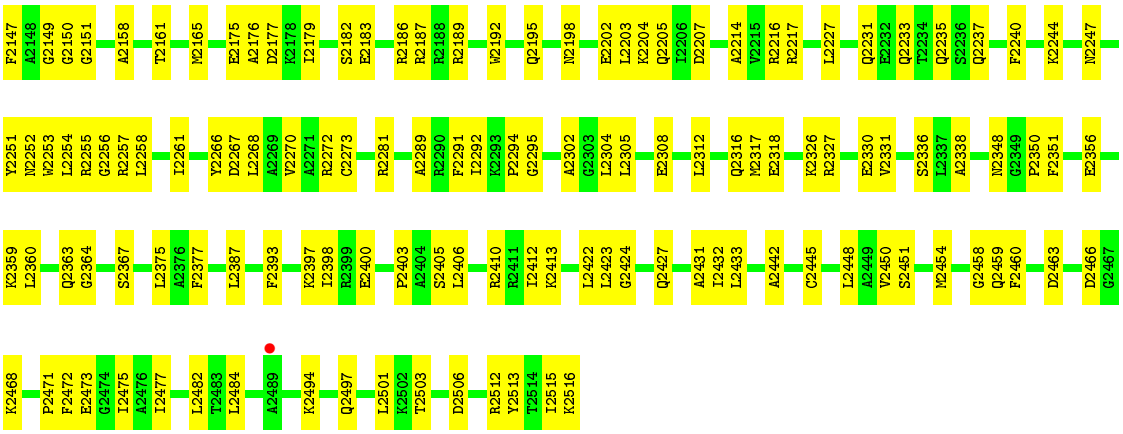
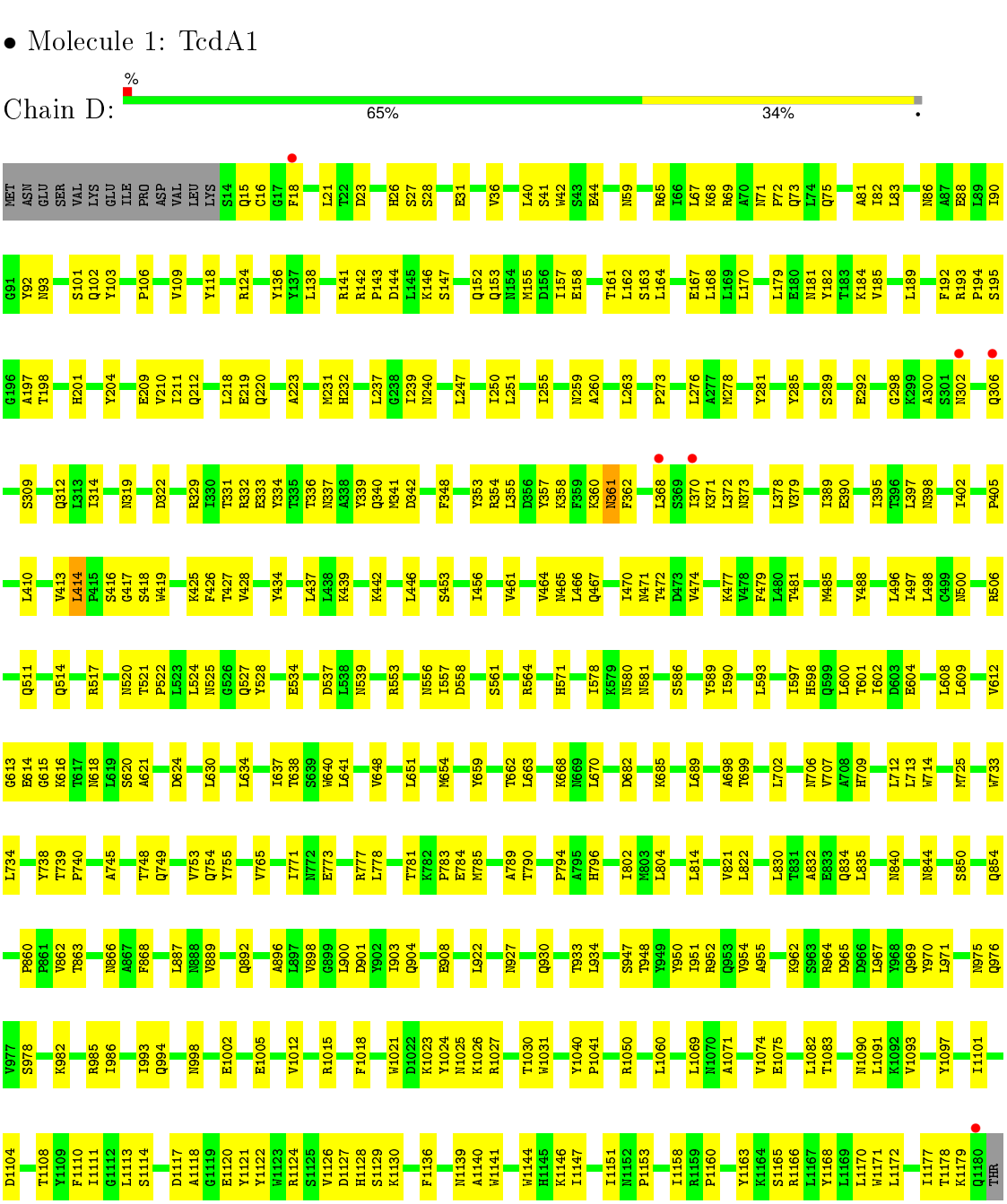
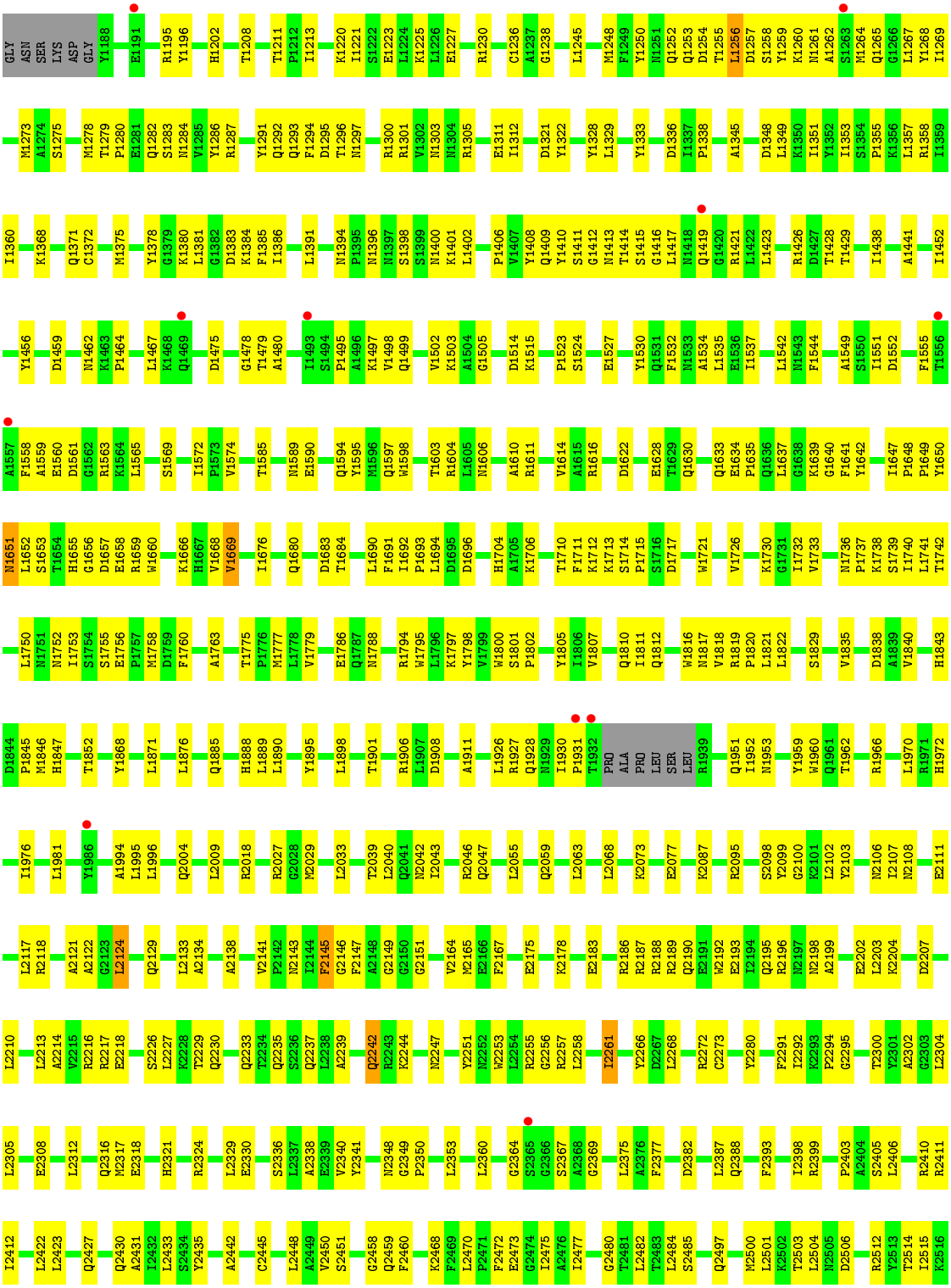
L2023 R2027 G2028 M2029 L2033 T2039 L2040 I2043 R2046 Q2047 L2056 Q2059 L2063 T2064 L2065 L2068 K2073 K2087 S2088 K2089 R2095 Y2099 L2102 E2105 N2106 I2107 N2108 E2111 R2118 A2122 G2123 L2124 T2125 T2126 A2127 V2128 P2142 N2143 I2144 F2145 G2146





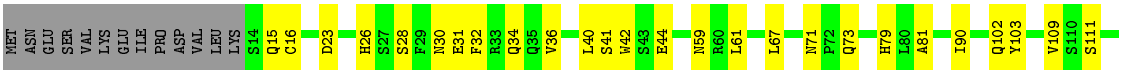
• Molecule 1: TcdA1

Chain D:



• Molecule 1: TcdA1

Chain E:



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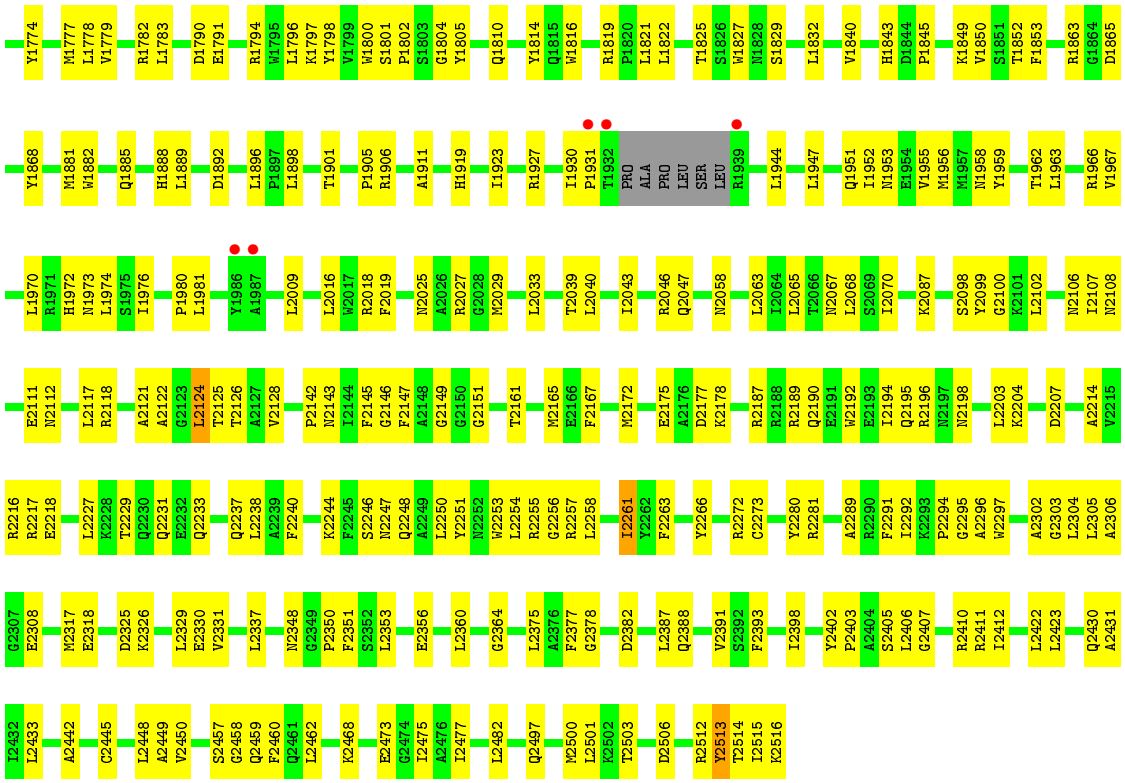
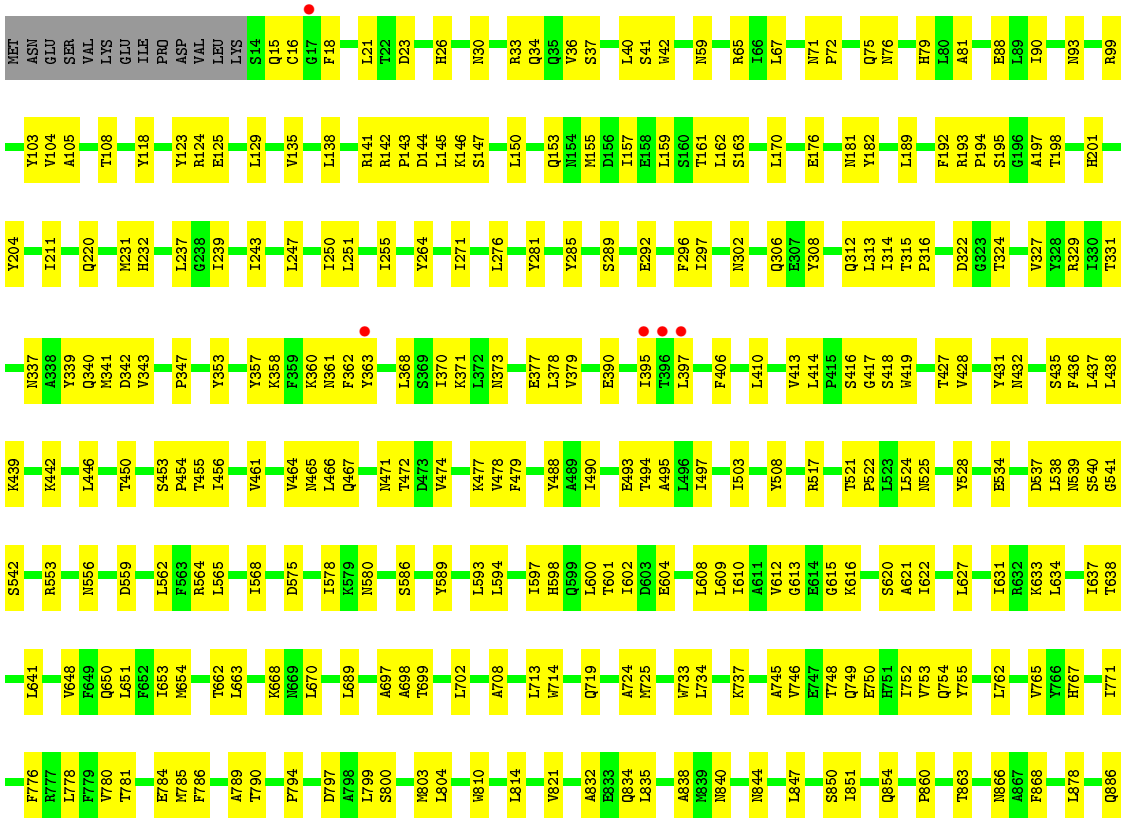
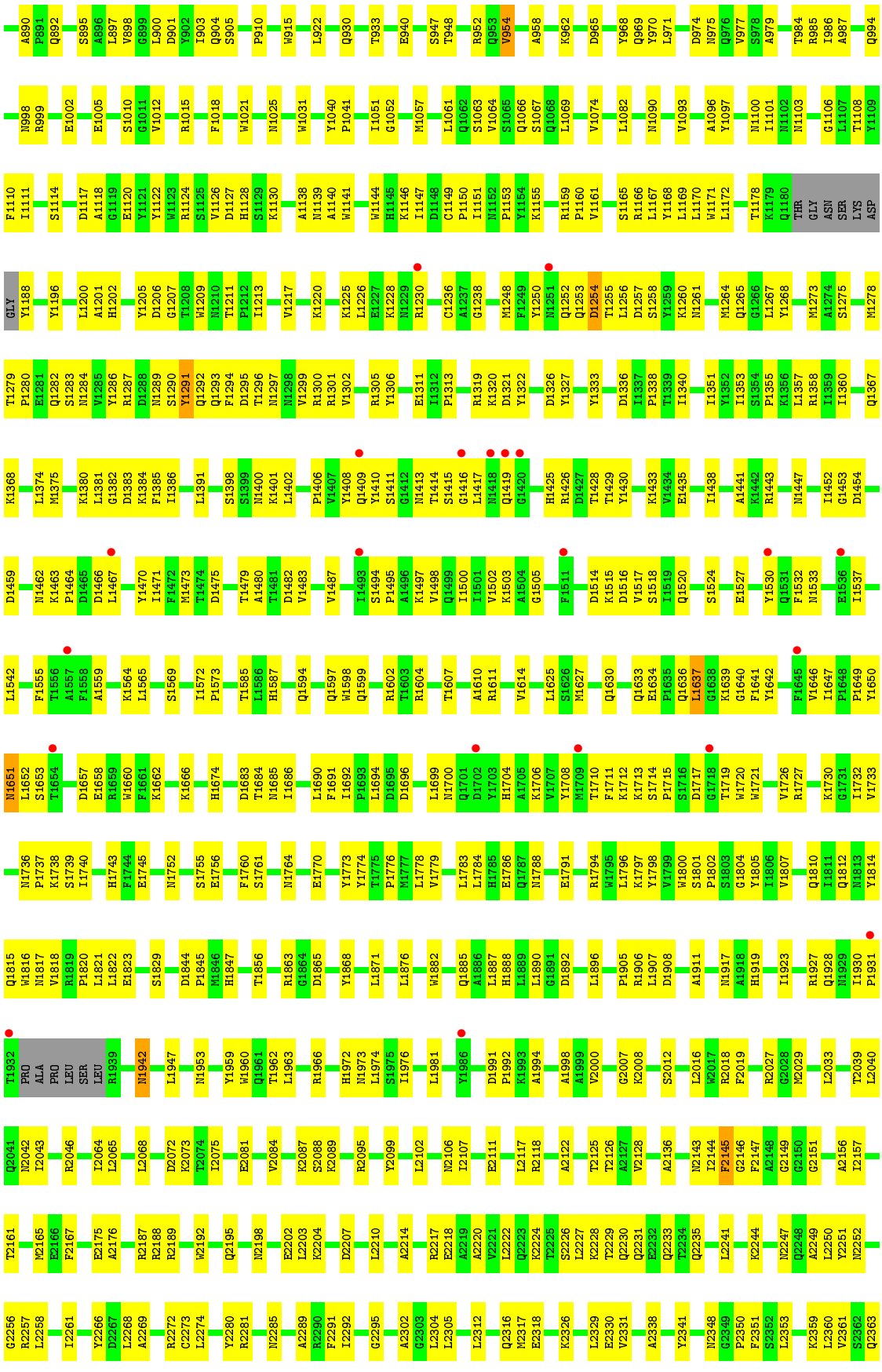


- Molecule 1: TcdA1

Chain F:

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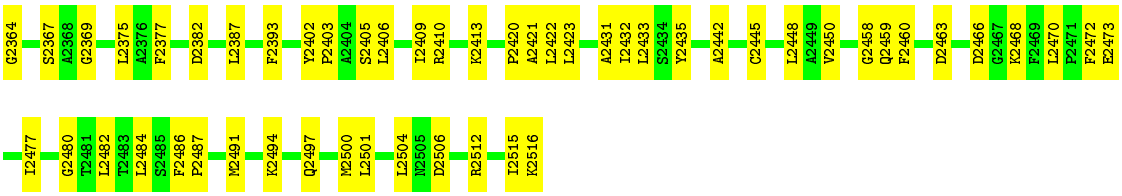
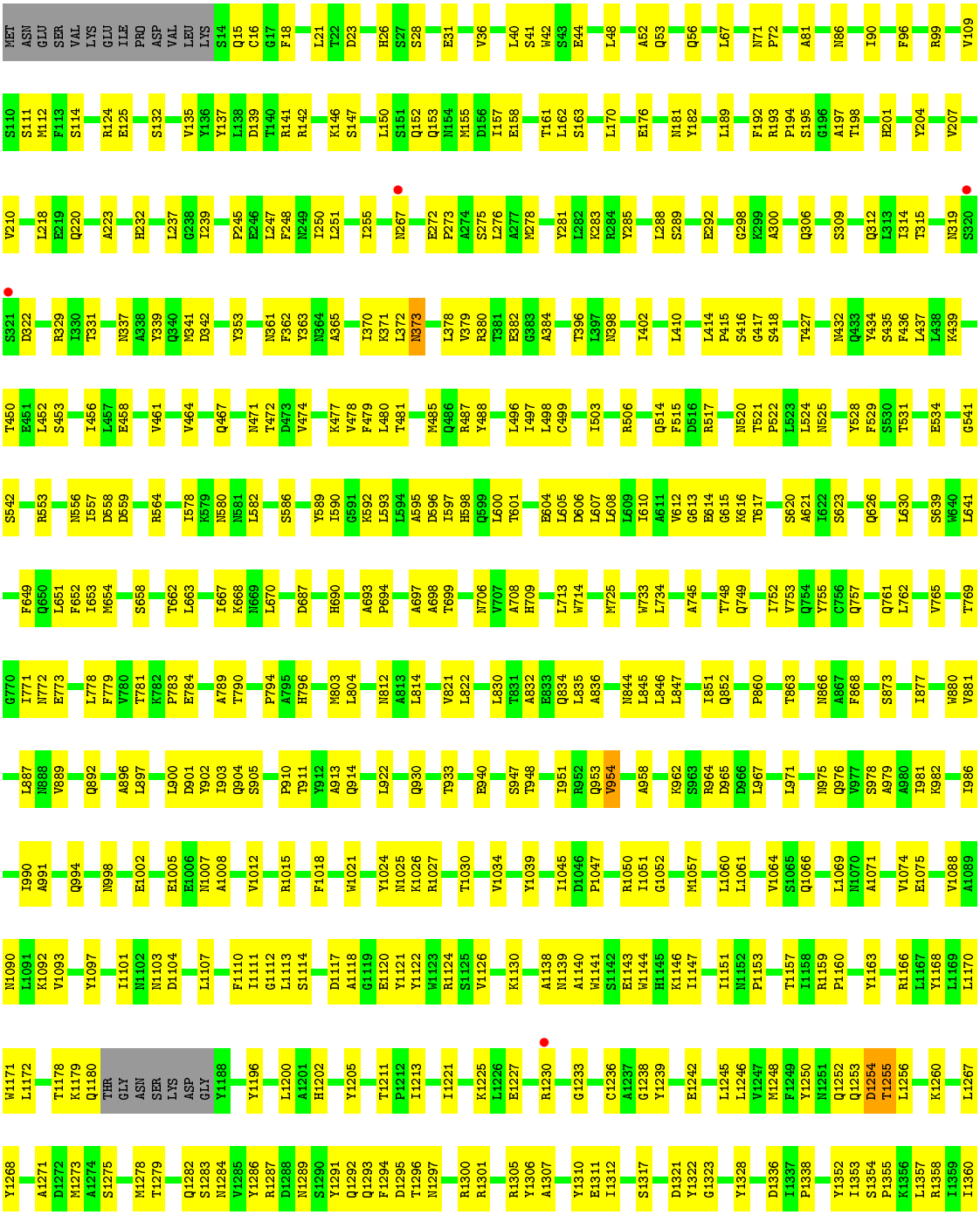
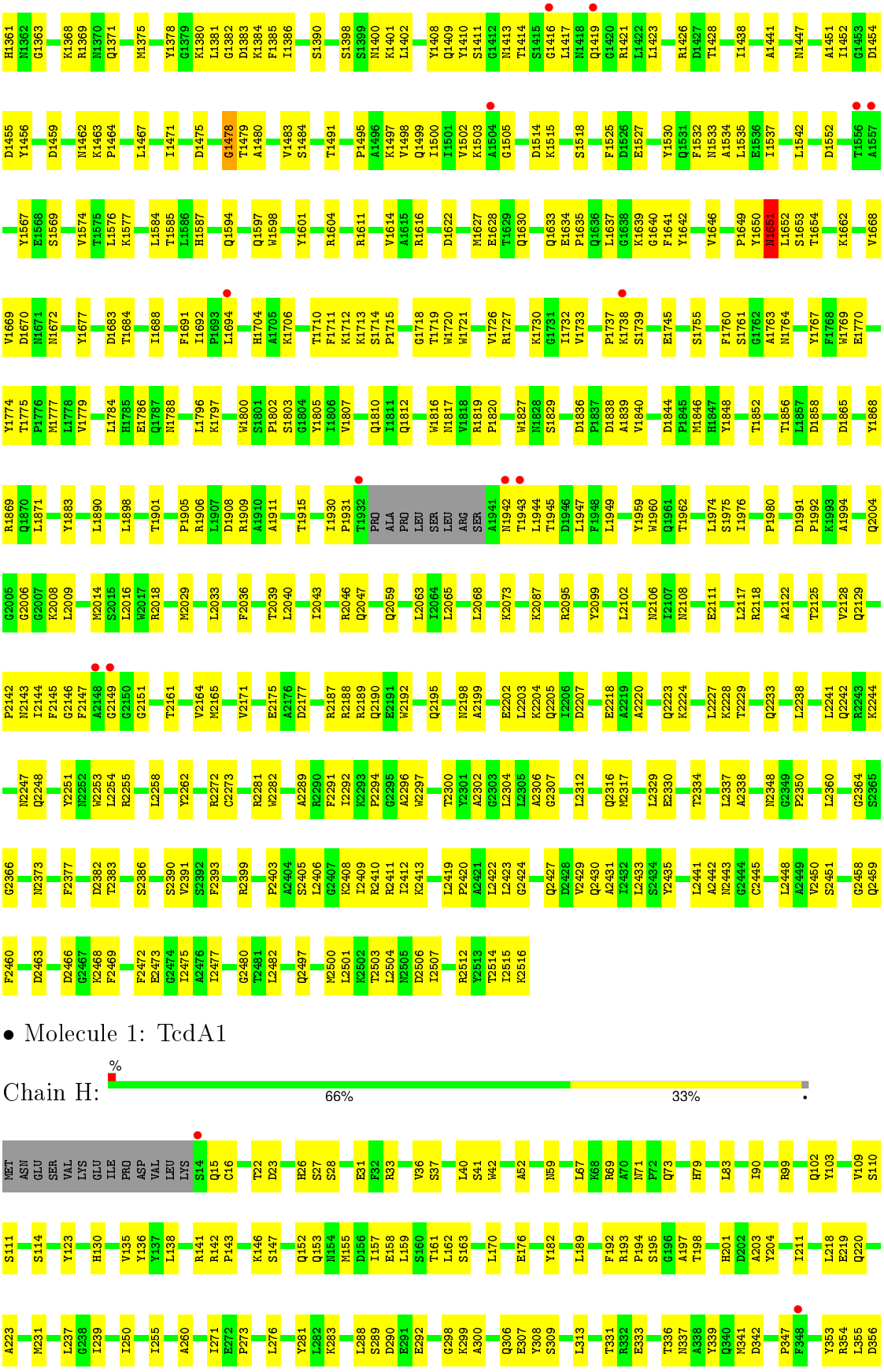


- Molecule 1: TcdA1

Chain G:





- Molecule 1: TcdA1

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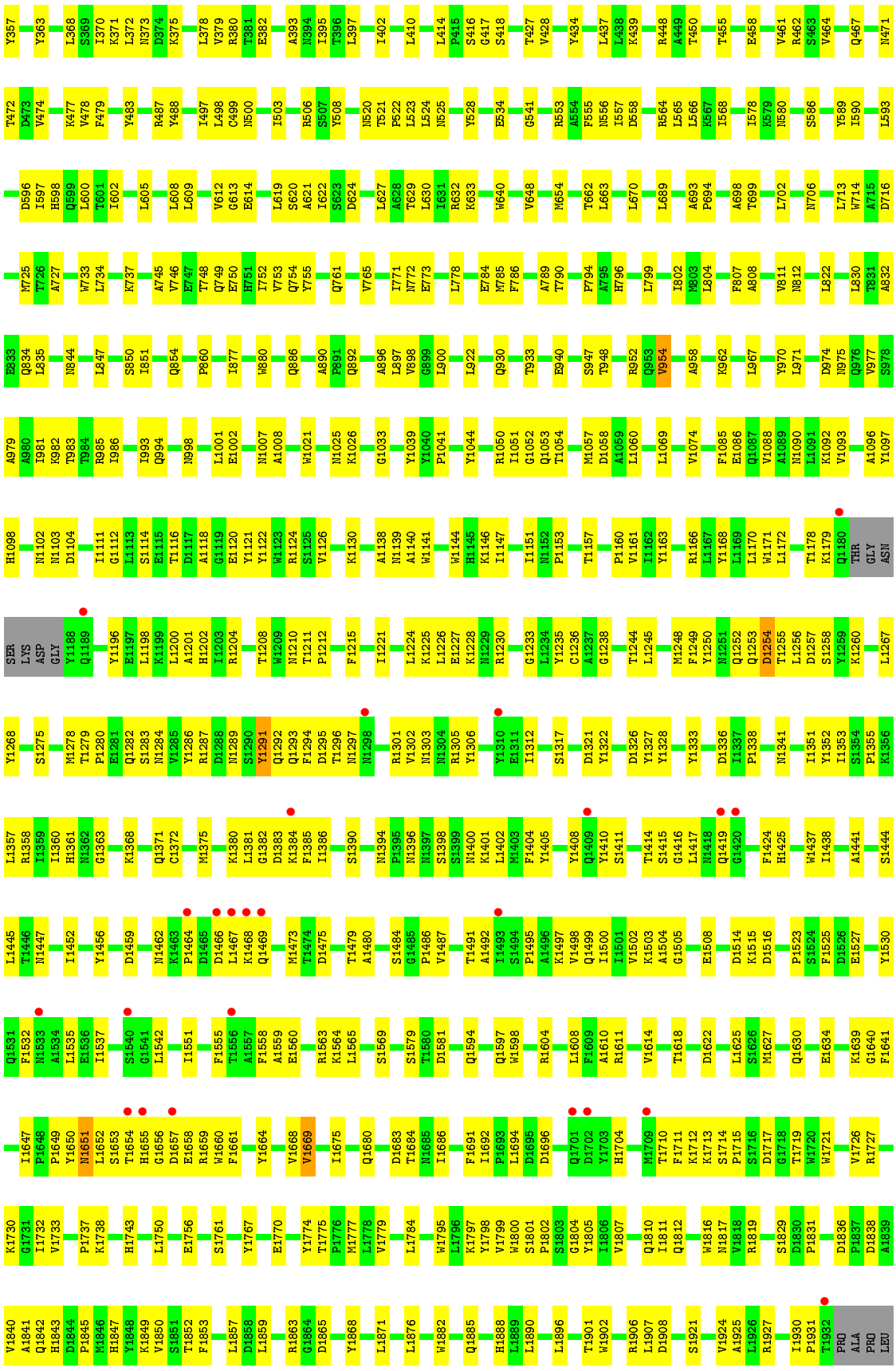

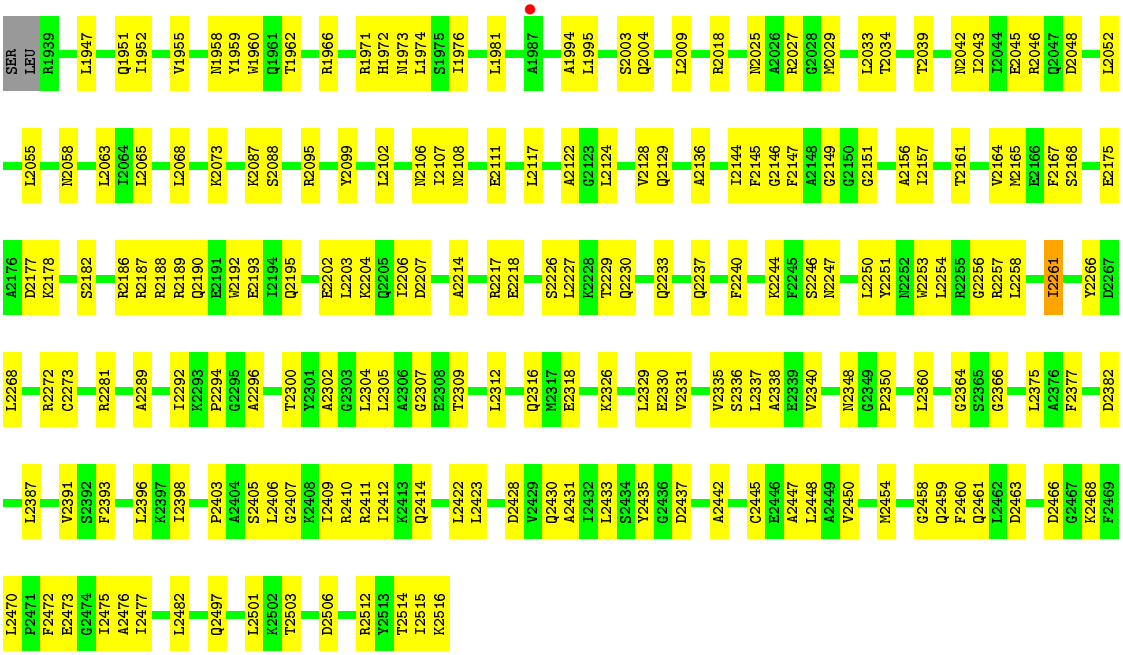

- Molecule 1: TcdA1

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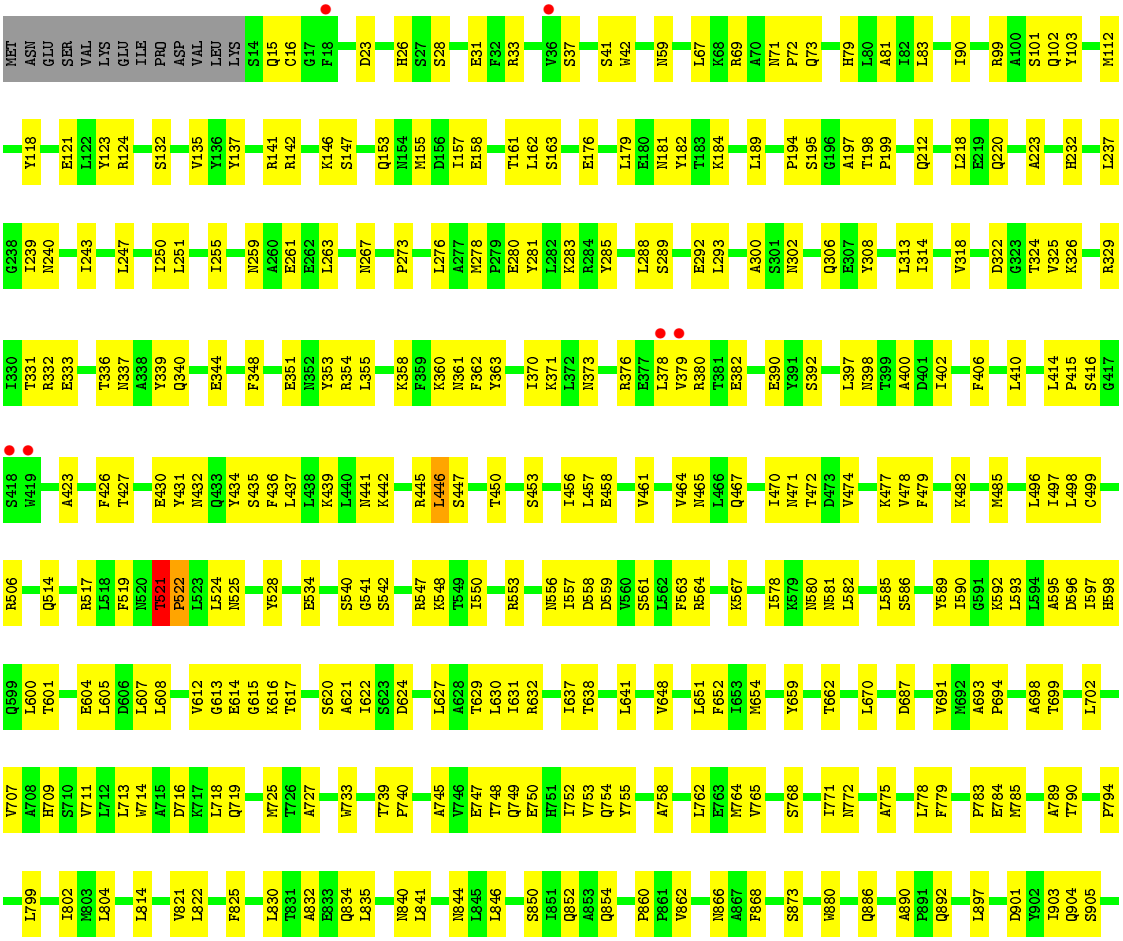

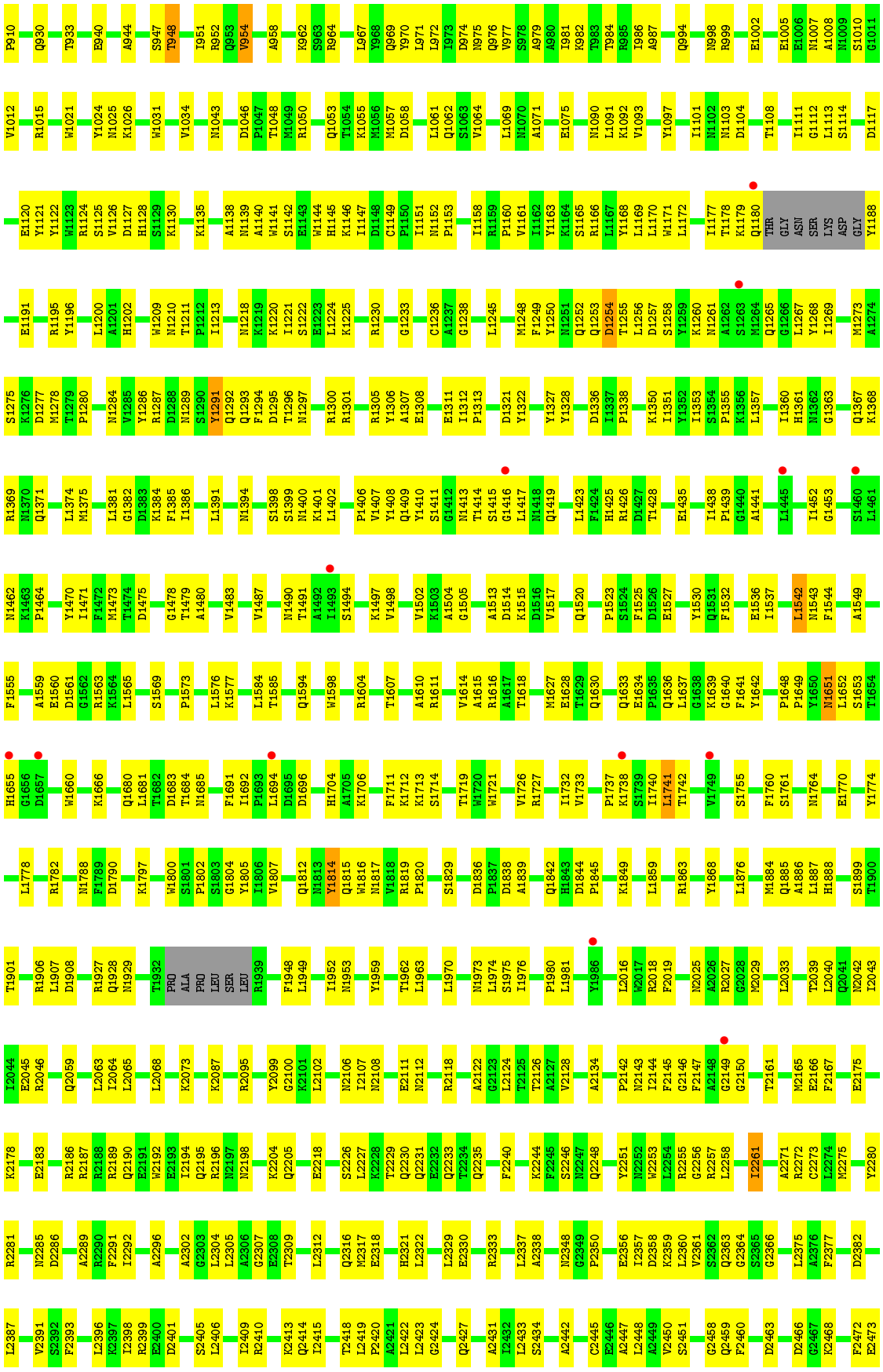
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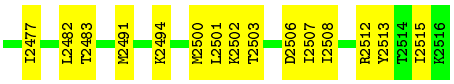
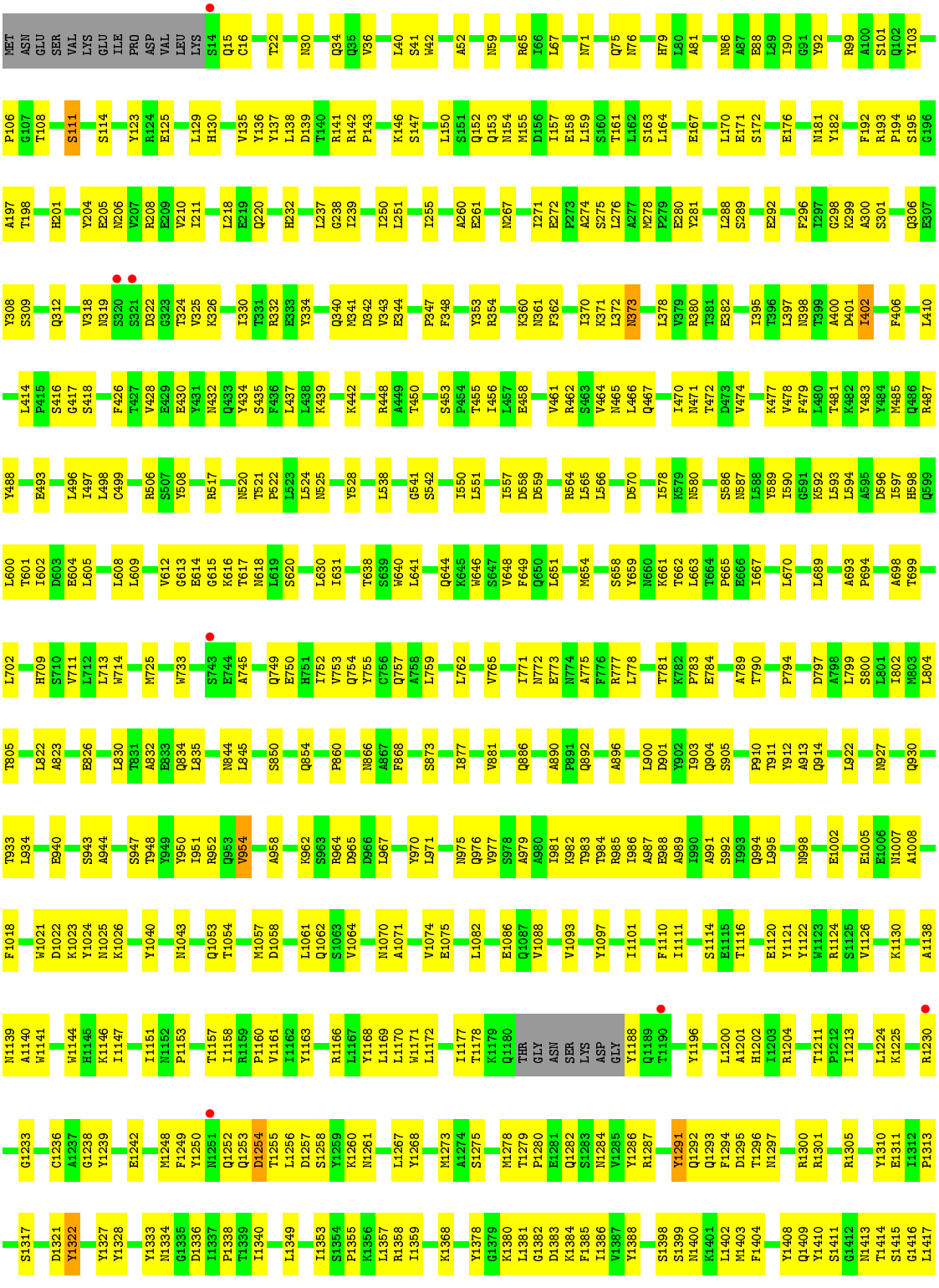
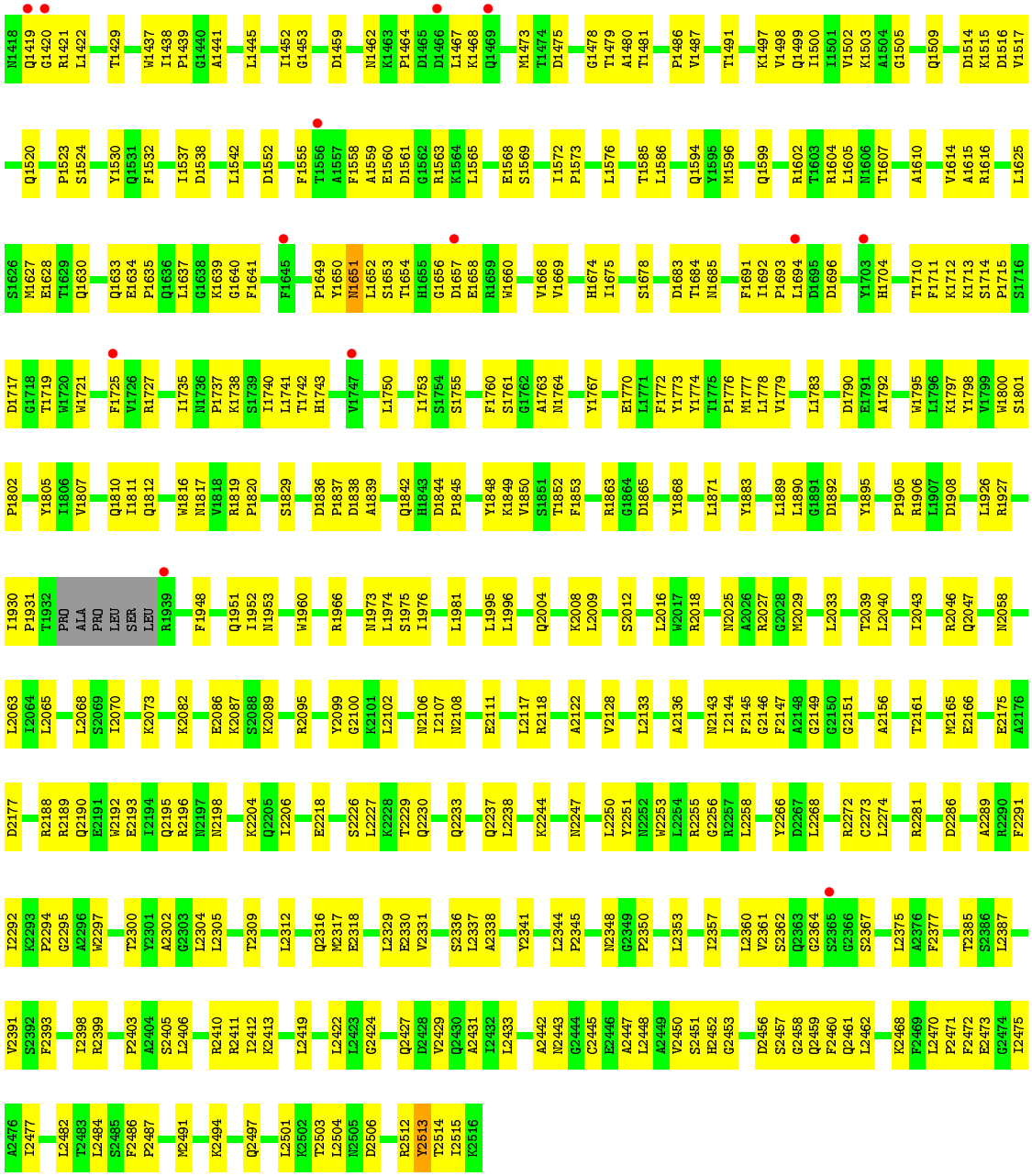


• Molecule 1: TcdA1

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4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	303.25Å 320.73Å 667.62Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 3.50 73.11 – 3.50	Depositor EDS
% Data completeness (in resolution range)	78.3 (20.00-3.50) 78.4 (73.11-3.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.39	Depositor
$< I/\sigma(I) >$ [1]	1.40 (at 3.49Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.8.1_1168)	Depositor
R, R_{free}	0.243 , 0.295 0.242 , 0.296	Depositor DCC
R_{free} test set	19003 reflections (3.00%)	DCC
Wilson B-factor (Å^2)	54.4	Xtriage
Anisotropy	0.030	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.29 , 54.0	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning[2]	$< \|L\| > = 0.35$, $< L^2 > = 0.19$	Xtriage
Outliers	5 of 633594 reflections (0.001%)	Xtriage
F_o,F_c correlation	0.79	EDS
Total number of atoms	197663	wwPDB-VP
Average B, all atoms (Å^2)	69.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.05% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.375 respectively for untwinned datasets, and 0.333, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|>5$	RMSZ	#$\|Z\|>5$
1	A	0.41	0/20194	0.66	4/27427 (0.0%)
1	B	0.41	0/20194	0.66	5/27427 (0.0%)
1	C	0.40	0/20194	0.65	7/27427 (0.0%)
1	D	0.41	0/20194	0.66	3/27427 (0.0%)
1	E	0.41	0/20194	0.67	5/27427 (0.0%)
1	F	0.38	0/20194	0.63	4/27427 (0.0%)
1	G	0.39	0/20177	0.64	2/27405 (0.0%)
1	H	0.38	0/20194	0.64	3/27427 (0.0%)
1	I	0.39	0/20194	0.64	3/27427 (0.0%)
1	J	0.39	0/20194	0.64	3/27427 (0.0%)
All	All	0.40	0/201923	0.65	39/274248 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	C	0	2
1	D	0	1
1	F	0	1
1	G	0	1
1	H	0	1
1	I	0	1
All	All	0	8

There are no bond length outliers.

All (39) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	521	THR	C-N-CD	-7.83	103.37	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	1461	LEU	CA-CB-CG	7.83	133.30	115.30
1	I	1291	TYR	N-CA-C	-7.48	90.79	111.00
1	F	1291	TYR	N-CA-C	-6.93	92.28	111.00
1	H	1291	TYR	N-CA-C	-6.20	94.25	111.00
1	J	1586	LEU	CA-CB-CG	6.19	129.55	115.30
1	D	1256	LEU	CA-CB-CG	6.18	129.51	115.30
1	E	2124	LEU	CA-CB-CG	6.17	129.49	115.30
1	F	2295	GLY	N-CA-C	-6.13	97.79	113.10
1	D	2124	LEU	CA-CB-CG	6.08	129.29	115.30
1	B	1417	LEU	N-CA-C	-6.05	94.65	111.00
1	I	2124	LEU	CA-CB-CG	5.77	128.56	115.30
1	A	1991	ASP	C-N-CD	-5.75	107.94	120.60
1	C	2454	MET	N-CA-C	-5.73	95.52	111.00
1	A	1637	LEU	CA-CB-CG	5.70	128.42	115.30
1	C	2124	LEU	CA-CB-CG	5.63	128.25	115.30
1	D	414	LEU	CA-CB-CG	5.55	128.08	115.30
1	B	1637	LEU	CA-CB-CG	5.51	127.98	115.30
1	F	1637	LEU	CA-CB-CG	5.50	127.94	115.30
1	H	2124	LEU	CA-CB-CG	5.41	127.75	115.30
1	J	1291	TYR	N-CA-C	-5.40	96.42	111.00
1	J	373	ASN	N-CA-C	-5.40	96.43	111.00
1	C	1291	TYR	N-CA-C	-5.37	96.50	111.00
1	E	373	ASN	N-CA-C	-5.24	96.85	111.00
1	A	1690	LEU	CA-CB-CG	5.24	127.35	115.30
1	H	2454	MET	N-CA-C	-5.22	96.92	111.00
1	E	2303	GLY	N-CA-C	-5.15	100.22	113.10
1	B	2304	LEU	CA-CB-CG	5.15	127.14	115.30
1	F	1690	LEU	CA-CB-CG	5.14	127.12	115.30
1	C	1637	LEU	CA-CB-CG	5.14	127.12	115.30
1	G	1478	GLY	N-CA-C	5.12	125.91	113.10
1	G	373	ASN	N-CA-C	-5.10	97.23	111.00
1	C	521	THR	N-CA-C	-5.09	97.26	111.00
1	C	2023	LEU	CA-CB-CG	5.05	126.91	115.30
1	B	2303	GLY	N-CA-C	-5.05	100.48	113.10
1	B	1291	TYR	N-CA-C	-5.04	97.39	111.00
1	I	1741	LEU	CA-CB-CG	5.04	126.88	115.30
1	E	1637	LEU	CA-CB-CG	5.02	126.84	115.30
1	A	1226	LEU	CA-CB-CG	5.00	126.81	115.30

There are no chirality outliers.

All (8) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1730	LYS	Peptide
1	C	1730	LYS	Peptide
1	C	521	THR	Peptide
1	D	1730	LYS	Peptide
1	F	1730	LYS	Peptide
1	G	1730	LYS	Peptide
1	H	1730	LYS	Peptide
1	I	521	THR	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	19768	0	19307	696	0
1	B	19768	0	19307	693	0
1	C	19768	0	19307	705	0
1	D	19768	0	19307	704	0
1	E	19768	0	19307	705	0
1	F	19768	0	19307	694	0
1	G	19751	0	19289	663	0
1	H	19768	0	19307	654	0
1	I	19768	0	19307	706	0
1	J	19768	0	19307	702	0
All	All	197663	0	193052	6448	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 16.

All (6448) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1653:SER:H	1:A:1713:LYS:HE3	1.13	1.09
1:J:1653:SER:H	1:J:1713:LYS:HE3	1.22	1.04
1:J:1250:TYR:HE2	1:J:1294:PHE:HB3	1.20	1.03
1:C:1117:ASP:H	1:D:1211:THR:HG21	1.21	1.03
1:E:1250:TYR:HE2	1:E:1294:PHE:HB3	1.26	1.01
1:G:155:MET:HB2	1:G:986:ILE:HD12	1.44	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1250:TYR:HE2	1:B:1294:PHE:HB3	1.25	0.98
1:F:1117:ASP:H	1:G:1211:THR:HG21	1.25	0.97
1:I:2302:ALA:HB3	1:I:2304:LEU:HG	1.47	0.96
1:A:155:MET:HB2	1:A:986:ILE:HD12	1.48	0.95
1:H:1810:GLN:HE22	1:I:1321:ASP:HA	1.31	0.95
1:I:1250:TYR:HE2	1:I:1294:PHE:HB3	1.32	0.95
1:H:962:LYS:HB2	1:H:1401:LYS:HE2	1.46	0.94
1:A:2149:GLY:N	1:E:2145:PHE:O	2.00	0.94
1:F:2145:PHE:O	1:G:2149:GLY:N	2.00	0.93
1:F:155:MET:HB2	1:F:986:ILE:HD12	1.46	0.93
1:F:521:THR:HG23	1:F:522:PRO:HD3	1.49	0.93
1:C:1502:VAL:HG11	1:C:1537:ILE:HD13	1.50	0.92
1:C:155:MET:HB2	1:C:986:ILE:HD12	1.51	0.92
1:A:1321:ASP:HA	1:E:1810:GLN:HE22	1.34	0.92
1:A:662:THR:H	1:A:753:VAL:HG11	1.35	0.92
1:G:1267:LEU:HD21	1:G:1275:SER:HB2	1.52	0.92
1:E:962:LYS:HB2	1:E:1401:LYS:HE2	1.52	0.91
1:A:1250:TYR:HE2	1:A:1294:PHE:HB3	1.36	0.91
1:E:155:MET:HB2	1:E:986:ILE:HD12	1.52	0.91
1:H:220:GLN:HG2	1:H:886:GLN:HG3	1.51	0.90
1:F:42:TRP:HH2	1:F:1321:ASP:HB2	1.36	0.90
1:B:155:MET:HB2	1:B:986:ILE:HD12	1.53	0.90
1:I:155:MET:HB2	1:I:986:ILE:HD12	1.52	0.90
1:F:662:THR:H	1:F:753:VAL:HG11	1.36	0.90
1:G:1502:VAL:HG11	1:G:1537:ILE:HD13	1.54	0.89
1:H:155:MET:HB2	1:H:986:ILE:HD12	1.53	0.89
1:B:104:VAL:HG11	1:B:108:THR:HG21	1.53	0.89
1:E:220:GLN:HG2	1:E:886:GLN:HG3	1.54	0.89
1:C:662:THR:H	1:C:753:VAL:HG11	1.37	0.89
1:D:1502:VAL:HG11	1:D:1537:ILE:HD13	1.53	0.88
1:A:892:GLN:HE22	1:B:541:GLY:HA2	1.38	0.88
1:I:1268:TYR:HH	1:I:1286:TYR:HH	1.19	0.88
1:B:1267:LEU:HD21	1:B:1275:SER:HB2	1.56	0.88
1:A:2330:GLU:HB2	1:B:2459:GLN:HA	1.55	0.87
1:G:141:ARG:NH2	1:G:1005:GLU:OE1	2.06	0.87
1:J:662:THR:H	1:J:753:VAL:HG11	1.39	0.87
1:B:2330:GLU:HB2	1:C:2459:GLN:HA	1.57	0.87
1:A:553:ARG:NH2	1:A:556:ASN:OD1	2.07	0.87
1:E:370:ILE:HG12	1:E:410:LEU:HD22	1.57	0.87
1:H:662:THR:H	1:H:753:VAL:HG11	1.38	0.87
1:I:524:LEU:H	1:I:525:ASN:HA	1.40	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:541:GLY:HA2	1:E:892:GLN:HE22	1.39	0.86
1:G:90:ILE:HG12	1:H:1452:ILE:HB	1.57	0.86
1:A:1505:GLY:H	1:A:1542:LEU:HB3	1.40	0.86
1:H:1151:ILE:HG22	1:H:1153:PRO:HD3	1.57	0.86
1:J:2029:MET:HG3	1:J:2272:ARG:HG3	1.57	0.86
1:B:1502:VAL:HG11	1:B:1537:ILE:HD13	1.56	0.86
1:C:2302:ALA:HB3	1:C:2304:LEU:HG	1.58	0.86
1:G:1505:GLY:H	1:G:1542:LEU:HB3	1.37	0.86
1:A:2459:GLN:HA	1:E:2330:GLU:HB2	1.57	0.86
1:A:2145:PHE:O	1:B:2149:GLY:N	2.08	0.86
1:E:1419:GLN:HB3	1:E:1462:ASN:ND2	1.92	0.85
1:B:892:GLN:HE22	1:C:541:GLY:HA2	1.41	0.85
1:B:1250:TYR:CE2	1:B:1294:PHE:HB3	2.09	0.85
1:D:1093:VAL:H	1:D:1594:GLN:HE22	1.24	0.85
1:A:844:ASN:H	1:B:564:ARG:HH22	1.19	0.85
1:D:844:ASN:H	1:E:564:ARG:HH22	1.25	0.85
1:F:1400:ASN:HD21	1:F:1479:THR:HG23	1.42	0.85
1:G:1151:ILE:HG22	1:G:1153:PRO:HD3	1.58	0.85
1:J:2244:LYS:O	1:J:2247:ASN:ND2	2.10	0.85
1:E:654:MET:O	1:E:796:HIS:NE2	2.09	0.85
1:F:553:ARG:NH2	1:F:556:ASN:OD1	2.08	0.85
1:H:289:SER:HB3	1:H:292:GLU:HG3	1.56	0.85
1:F:1250:TYR:HE2	1:F:1294:PHE:HB3	1.40	0.85
1:G:892:GLN:HE22	1:H:541:GLY:HA2	1.41	0.85
1:E:289:SER:HB3	1:E:292:GLU:HG3	1.59	0.84
1:G:2330:GLU:HB2	1:H:2459:GLN:HA	1.59	0.84
1:B:600:LEU:HD21	1:B:608:LEU:HD12	1.58	0.84
1:D:2302:ALA:HB3	1:D:2304:LEU:HG	1.59	0.84
1:G:2302:ALA:HB3	1:G:2304:LEU:HG	1.59	0.84
1:C:1653:SER:H	1:C:1713:LYS:HE3	1.39	0.84
1:E:1411:SER:HB2	1:E:1419:GLN:HA	1.57	0.84
1:J:2100:GLY:HA2	1:J:2196:ARG:HD3	1.59	0.84
1:H:2029:MET:HG3	1:H:2272:ARG:HG3	1.58	0.84
1:E:1267:LEU:HD21	1:E:1275:SER:HB2	1.56	0.84
1:C:127:ARG:HA	1:C:138:LEU:HD13	1.60	0.84
1:F:1810:GLN:HE22	1:G:1321:ASP:HA	1.41	0.84
1:C:524:LEU:N	1:C:525:ASN:HA	1.93	0.84
1:G:1649:PRO:HB3	1:G:1684:THR:HA	1.59	0.83
1:J:220:GLN:HG2	1:J:886:GLN:HG3	1.58	0.83
1:D:289:SER:HB3	1:D:292:GLU:HG3	1.58	0.83
1:G:662:THR:H	1:G:753:VAL:HG11	1.43	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:289:SER:HB3	1:F:292:GLU:HG3	1.61	0.83
1:J:524:LEU:N	1:J:525:ASN:HA	1.93	0.83
1:J:289:SER:HB3	1:J:292:GLU:HG3	1.59	0.83
1:C:331:THR:HB	1:C:427:THR:HB	1.59	0.83
1:D:1255:THR:HA	1:D:1296:THR:HG21	1.61	0.83
1:D:1653:SER:H	1:D:1713:LYS:HE3	1.43	0.83
1:J:578:ILE:HG22	1:J:580:ASN:H	1.41	0.83
1:F:1151:ILE:HG22	1:F:1153:PRO:HD3	1.61	0.82
1:I:2122:ALA:HB1	1:I:2175:GLU:HG2	1.60	0.82
1:I:1122:TYR:HE2	1:I:1146:LYS:HG2	1.44	0.82
1:J:1250:TYR:CE2	1:J:1294:PHE:HB3	2.11	0.82
1:F:1153:PRO:HB3	1:F:1171:TRP:HB2	1.60	0.82
1:B:1253:GLN:HB3	1:B:1296:THR:HA	1.60	0.82
1:C:553:ARG:NH2	1:C:556:ASN:OD1	2.12	0.82
1:I:2073:LYS:NZ	1:J:2218:GLU:OE2	2.12	0.82
1:B:1797:LYS:HE3	1:B:1801:SER:HB2	1.61	0.82
1:C:1253:GLN:HB3	1:C:1296:THR:HA	1.62	0.82
1:D:155:MET:HB2	1:D:986:ILE:HD12	1.61	0.82
1:I:670:LEU:HB2	1:I:699:THR:HG21	1.60	0.82
1:G:1868:TYR:OH	1:G:1974:LEU:O	1.97	0.82
1:C:1151:ILE:HG22	1:C:1153:PRO:HD3	1.60	0.82
1:C:220:GLN:HG2	1:C:886:GLN:HG3	1.61	0.82
1:A:1151:ILE:HG22	1:A:1153:PRO:HD3	1.60	0.82
1:I:2106:ASN:HB2	1:I:2189:ARG:NH1	1.94	0.82
1:F:2459:GLN:HA	1:J:2330:GLU:HB2	1.60	0.82
1:E:1502:VAL:HG11	1:E:1537:ILE:HD13	1.59	0.82
1:G:654:MET:O	1:G:796:HIS:NE2	2.11	0.82
1:D:1398:SER:HB3	1:D:1480:ALA:HB3	1.61	0.81
1:D:1122:TYR:HE2	1:D:1146:LYS:HG2	1.42	0.81
1:E:331:THR:HB	1:E:427:THR:HB	1.61	0.81
1:F:600:LEU:HD21	1:F:608:LEU:HD12	1.60	0.81
1:B:104:VAL:CG1	1:B:108:THR:HG21	2.11	0.81
1:H:670:LEU:HB2	1:H:699:THR:HG21	1.61	0.81
1:H:614:GLU:HG3	1:H:630:LEU:HG	1.60	0.81
1:I:2046:ARG:NH2	1:I:2251:TYR:OH	2.12	0.81
1:D:1741:LEU:HD23	1:D:1742:THR:H	1.46	0.81
1:G:553:ARG:NH2	1:G:556:ASN:OD1	2.13	0.81
1:B:276:LEU:HD23	1:B:437:LEU:HD13	1.63	0.81
1:B:289:SER:HB3	1:B:292:GLU:HG3	1.61	0.81
1:E:1505:GLY:H	1:E:1542:LEU:HB2	1.45	0.81
1:D:1261:ASN:H	1:D:1287:ARG:NH1	1.78	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:524:LEU:N	1:A:525:ASN:HA	1.96	0.81
1:I:524:LEU:N	1:I:525:ASN:HA	1.94	0.81
1:H:2009:LEU:HD22	1:H:2294:PRO:HD3	1.62	0.81
1:I:2029:MET:HG3	1:I:2272:ARG:HG3	1.63	0.81
1:H:2253:TRP:HA	1:I:698:ALA:HB1	1.63	0.80
1:H:524:LEU:N	1:H:525:ASN:HA	1.95	0.80
1:A:1280:PRO:O	1:A:1284:ASN:ND2	2.15	0.80
1:F:176:GLU:HG2	1:F:954:VAL:HG22	1.63	0.80
1:C:1250:TYR:HE2	1:C:1294:PHE:HB3	1.45	0.80
1:I:1398:SER:HB3	1:I:1480:ALA:HB3	1.63	0.80
1:C:600:LEU:HD21	1:C:608:LEU:HD12	1.63	0.80
1:C:1650:TYR:OH	1:C:1659:ARG:NH2	2.14	0.80
1:D:2122:ALA:HB1	1:D:2175:GLU:HG2	1.61	0.80
1:F:220:GLN:HG2	1:F:886:GLN:HG3	1.62	0.80
1:A:564:ARG:HH22	1:E:844:ASN:H	1.29	0.80
1:I:90:ILE:HG12	1:J:1452:ILE:HB	1.62	0.80
1:I:1253:GLN:HB3	1:I:1296:THR:HA	1.64	0.80
1:H:1398:SER:HB3	1:H:1480:ALA:HB3	1.63	0.80
1:B:1398:SER:HB3	1:B:1480:ALA:HB3	1.63	0.80
1:G:289:SER:HB3	1:G:292:GLU:HG3	1.62	0.79
1:E:2302:ALA:HB3	1:E:2304:LEU:HG	1.64	0.79
1:A:127:ARG:HA	1:A:138:LEU:HD13	1.64	0.79
1:J:2302:ALA:HB3	1:J:2304:LEU:HG	1.63	0.79
1:D:2410:ARG:HG3	1:D:2515:ILE:HG12	1.64	0.79
1:G:2095:ARG:NH2	1:G:2202:GLU:OE2	2.14	0.79
1:A:498:LEU:HD21	1:A:597:ILE:HD13	1.64	0.79
1:A:2253:TRP:HA	1:B:698:ALA:HB1	1.64	0.79
1:G:524:LEU:N	1:G:525:ASN:HA	1.95	0.79
1:G:528:TYR:OH	1:G:580:ASN:ND2	2.16	0.79
1:I:1151:ILE:HG22	1:I:1153:PRO:HD3	1.63	0.79
1:F:67:LEU:O	1:F:103:TYR:OH	2.00	0.79
1:I:197:ALA:HB3	1:I:948:THR:HG21	1.64	0.79
1:H:1994:ALA:HB2	1:I:2065:LEU:HD11	1.65	0.79
1:E:662:THR:H	1:E:753:VAL:HG11	1.45	0.79
1:E:524:LEU:N	1:E:525:ASN:HA	1.97	0.79
1:H:1267:LEU:HD21	1:H:1275:SER:HB2	1.64	0.79
1:J:1151:ILE:HG22	1:J:1153:PRO:HD3	1.62	0.79
1:D:276:LEU:HD23	1:D:437:LEU:HD13	1.62	0.79
1:B:141:ARG:NH2	1:B:1005:GLU:OE1	2.16	0.79
1:J:614:GLU:HG3	1:J:630:LEU:HG	1.64	0.79
1:D:2029:MET:HG3	1:D:2272:ARG:HG3	1.62	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2330:GLU:HB2	1:D:2459:GLN:HA	1.64	0.79
1:E:1630:GLN:HG2	1:E:1819:ARG:HB3	1.64	0.79
1:D:2027:ARG:NH2	1:D:2318:GLU:OE1	2.15	0.79
1:I:1411:SER:HB2	1:I:1419:GLN:HA	1.65	0.79
1:B:138:LEU:HD11	1:B:996:TYR:CE2	2.18	0.79
1:F:2149:GLY:N	1:J:2145:PHE:O	2.13	0.78
1:D:2442:ALA:HB3	1:D:2445:CYS:HB2	1.65	0.78
1:A:1267:LEU:HD21	1:A:1275:SER:HB2	1.65	0.78
1:I:497:ILE:HD13	1:I:589:TYR:HD2	1.49	0.78
1:J:497:ILE:HD13	1:J:589:TYR:HD2	1.49	0.78
1:F:528:TYR:OH	1:F:580:ASN:OD1	2.00	0.78
1:I:59:ASN:OD1	1:I:1927:ARG:NH2	2.17	0.78
1:D:2433:LEU:HD22	1:D:2482:LEU:HD21	1.66	0.78
1:D:892:GLN:HE22	1:E:541:GLY:HA2	1.49	0.78
1:I:2145:PHE:O	1:J:2149:GLY:N	2.14	0.78
1:A:289:SER:HB3	1:A:292:GLU:HG3	1.66	0.78
1:E:1398:SER:HB3	1:E:1480:ALA:HB3	1.66	0.78
1:A:1220:LYS:O	1:A:1265:GLN:NE2	2.16	0.78
1:I:1053:GLN:NE2	1:I:1058:ASP:OD1	2.15	0.78
1:G:1260:LYS:HA	1:G:1287:ARG:HH12	1.48	0.78
1:E:193:ARG:HG2	1:E:250:ILE:HD11	1.65	0.78
1:H:497:ILE:HD13	1:H:589:TYR:HD2	1.47	0.78
1:J:2111:GLU:OE2	1:J:2188:ARG:NH2	2.17	0.78
1:D:844:ASN:HB2	1:E:564:ARG:HH12	1.49	0.78
1:C:1797:LYS:HE3	1:C:1801:SER:HB2	1.64	0.78
1:A:1390:SER:HB3	1:A:1484:SER:HB2	1.66	0.78
1:F:2433:LEU:HD22	1:F:2482:LEU:HD21	1.64	0.78
1:E:1139:ASN:ND2	1:E:1829:SER:O	2.17	0.78
1:E:578:ILE:HG22	1:E:580:ASN:H	1.48	0.78
1:H:2330:GLU:HB2	1:I:2459:GLN:HA	1.64	0.78
1:I:81:ALA:H	1:I:1816:TRP:HH2	1.32	0.78
1:J:493:GLU:OE1	1:J:517:ARG:NH1	2.18	0.77
1:F:42:TRP:CH2	1:F:1321:ASP:HB2	2.18	0.77
1:H:2145:PHE:O	1:I:2149:GLY:N	2.15	0.77
1:C:2244:LYS:O	1:C:2247:ASN:ND2	2.16	0.77
1:J:1398:SER:HB3	1:J:1480:ALA:HB3	1.64	0.77
1:I:2106:ASN:HB2	1:I:2189:ARG:HH11	1.48	0.77
1:E:2029:MET:HG3	1:E:2272:ARG:HG3	1.67	0.77
1:J:1267:LEU:HD21	1:J:1275:SER:HB2	1.66	0.77
1:G:1124:ARG:NH1	1:G:1764:ASN:OD1	2.18	0.77
1:C:2087:LYS:HD3	1:D:2204:LYS:HB3	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1172:LEU:HD21	1:B:1196:TYR:HB3	1.67	0.77
1:H:147:SER:HA	1:H:1906:ARG:HE	1.50	0.77
1:I:220:GLN:HG2	1:I:886:GLN:HG3	1.66	0.77
1:B:1503:LYS:HB2	1:B:1552:ASP:HB2	1.66	0.77
1:F:81:ALA:H	1:F:1816:TRP:HH2	1.33	0.77
1:F:1261:ASN:H	1:F:1287:ARG:NH1	1.81	0.77
1:C:663:LEU:HD13	1:C:668:LYS:HE3	1.67	0.77
1:B:2253:TRP:HA	1:C:698:ALA:HB1	1.67	0.77
1:E:521:THR:HG23	1:E:522:PRO:HD3	1.65	0.77
1:F:2330:GLU:HB2	1:G:2459:GLN:HA	1.65	0.77
1:D:598:HIS:HB3	1:D:638:THR:HG21	1.67	0.77
1:A:2258:LEU:HB2	1:E:2305:LEU:HD11	1.67	0.77
1:D:59:ASN:OD1	1:D:1927:ARG:NH2	2.17	0.77
1:C:1398:SER:HB3	1:C:1480:ALA:HB3	1.67	0.76
1:I:289:SER:HB3	1:I:292:GLU:HG3	1.64	0.76
1:A:220:GLN:HG2	1:A:886:GLN:HG3	1.65	0.76
1:J:998:ASN:OD1	1:J:1026:LYS:NZ	2.18	0.76
1:D:2087:LYS:HD3	1:E:2204:LYS:HB3	1.67	0.76
1:B:524:LEU:N	1:B:525:ASN:HA	1.99	0.76
1:A:1452:ILE:HB	1:E:90:ILE:HG12	1.67	0.76
1:C:2018:ARG:NH1	1:C:2473:GLU:OE2	2.18	0.76
1:G:2029:MET:HG3	1:G:2272:ARG:HG3	1.66	0.76
1:A:1653:SER:N	1:A:1713:LYS:HE3	1.96	0.76
1:E:1250:TYR:CE2	1:E:1294:PHE:HB3	2.16	0.76
1:A:42:TRP:CZ2	1:A:1320:LYS:HB3	2.19	0.76
1:G:432:ASN:HB3	1:G:435:SER:HB3	1.66	0.76
1:H:1653:SER:H	1:H:1713:LYS:HE3	1.50	0.76
1:J:2108:ASN:HB3	1:J:2111:GLU:HG3	1.67	0.76
1:H:23:ASP:O	1:H:26:HIS:ND1	2.18	0.76
1:A:1172:LEU:HD21	1:A:1196:TYR:HB3	1.66	0.76
1:D:1151:ILE:HG22	1:D:1153:PRO:HD3	1.66	0.76
1:H:1260:LYS:HA	1:H:1287:ARG:HH12	1.48	0.76
1:G:844:ASN:HB2	1:H:564:ARG:HH12	1.48	0.76
1:D:1139:ASN:ND2	1:D:1829:SER:O	2.18	0.76
1:A:1502:VAL:HG11	1:A:1537:ILE:HD13	1.66	0.76
1:B:1280:PRO:O	1:B:1284:ASN:ND2	2.18	0.76
1:B:542:SER:O	1:B:548:LYS:NZ	2.18	0.76
1:F:497:ILE:HD13	1:F:589:TYR:HD2	1.51	0.76
1:A:1130:LYS:HB2	1:A:1140:ALA:HB2	1.68	0.76
1:I:1741:LEU:HD23	1:I:1742:THR:H	1.50	0.76
1:G:1915:THR:HG23	1:G:1943:THR:HB	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:578:ILE:HG22	1:H:580:ASN:H	1.51	0.76
1:A:497:ILE:HD13	1:A:589:TYR:HD2	1.50	0.76
1:G:2145:PHE:O	1:H:2149:GLY:N	2.14	0.75
1:F:147:SER:HA	1:F:1906:ARG:HE	1.50	0.75
1:I:1093:VAL:H	1:I:1594:GLN:HE22	1.32	0.75
1:H:1139:ASN:ND2	1:H:1829:SER:O	2.18	0.75
1:C:1117:ASP:N	1:D:1211:THR:HG21	2.01	0.75
1:G:1253:GLN:HB3	1:G:1296:THR:HA	1.66	0.75
1:D:193:ARG:HG2	1:D:250:ILE:HD11	1.68	0.75
1:G:498:LEU:HD21	1:G:597:ILE:HD13	1.68	0.75
1:J:42:TRP:CH2	1:J:1321:ASP:HB2	2.22	0.75
1:H:1093:VAL:H	1:H:1594:GLN:HE22	1.33	0.75
1:I:370:ILE:HD12	1:I:379:VAL:HB	1.69	0.75
1:F:540:SER:O	1:J:892:GLN:NE2	2.20	0.75
1:E:1653:SER:H	1:E:1713:LYS:HE3	1.52	0.75
1:I:1225:LYS:O	1:I:1230:ARG:NH1	2.18	0.75
1:D:553:ARG:NH2	1:D:556:ASN:OD1	2.20	0.75
1:J:962:LYS:NZ	1:J:1398:SER:O	2.20	0.75
1:F:1633:GLN:HB3	1:F:1755:SER:HB2	1.68	0.75
1:C:1220:LYS:O	1:C:1265:GLN:NE2	2.20	0.75
1:B:844:ASN:HB2	1:C:564:ARG:HH12	1.51	0.75
1:G:176:GLU:HG2	1:G:954:VAL:HG22	1.67	0.75
1:D:42:TRP:HH2	1:D:1321:ASP:HB2	1.52	0.75
1:I:1502:VAL:HG11	1:I:1537:ILE:HD13	1.68	0.75
1:I:331:THR:HB	1:I:427:THR:HB	1.69	0.74
1:A:90:ILE:HG12	1:B:1452:ILE:HB	1.68	0.74
1:G:892:GLN:NE2	1:H:541:GLY:HA2	2.02	0.74
1:C:135:VAL:HG21	1:C:958:ALA:HB3	1.68	0.74
1:E:2106:ASN:HB2	1:E:2189:ARG:NH1	2.02	0.74
1:C:2145:PHE:O	1:D:2149:GLY:N	2.17	0.74
1:G:1869:ARG:HH21	1:G:1976:ILE:HG21	1.52	0.74
1:C:2047:GLN:OE1	1:C:2252:ASN:ND2	2.20	0.74
1:B:1151:ILE:HG22	1:B:1153:PRO:HD3	1.69	0.74
1:J:155:MET:HB2	1:J:986:ILE:HD12	1.68	0.74
1:I:1139:ASN:ND2	1:I:1829:SER:O	2.19	0.74
1:C:1139:ASN:ND2	1:C:1829:SER:O	2.19	0.74
1:G:1139:ASN:ND2	1:G:1829:SER:O	2.20	0.74
1:E:1225:LYS:O	1:E:1230:ARG:NH1	2.20	0.74
1:J:1253:GLN:HB3	1:J:1296:THR:HA	1.68	0.74
1:D:1250:TYR:CE2	1:D:1294:PHE:HB3	2.23	0.74
1:J:2398:ILE:HB	1:J:2477:ILE:HG21	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1104:ASP:HA	1:A:1598:TRP:HZ2	1.51	0.74
1:G:312:GLN:OE1	1:G:329:ARG:NH1	2.20	0.74
1:A:541:GLY:HA2	1:E:892:GLN:NE2	2.03	0.74
1:B:414:LEU:HD12	1:B:416:SER:H	1.53	0.74
1:F:141:ARG:NH2	1:F:1005:GLU:OE1	2.19	0.74
1:B:578:ILE:HG22	1:B:580:ASN:H	1.51	0.74
1:E:1868:TYR:CD2	1:E:1976:ILE:HG12	2.23	0.74
1:C:497:ILE:HD13	1:C:589:TYR:HD2	1.51	0.74
1:E:998:ASN:OD1	1:E:1026:LYS:NZ	2.20	0.74
1:H:1651:ASN:HB3	1:H:1652:LEU:HA	1.69	0.74
1:B:2145:PHE:O	1:C:2149:GLY:N	2.14	0.74
1:J:1411:SER:HB2	1:J:1419:GLN:HA	1.68	0.74
1:H:331:THR:HB	1:H:427:THR:HB	1.67	0.74
1:D:578:ILE:HG22	1:D:580:ASN:H	1.51	0.74
1:C:1130:LYS:HB2	1:C:1140:ALA:HB2	1.70	0.74
1:A:2302:ALA:HB3	1:A:2304:LEU:HG	1.70	0.74
1:A:663:LEU:HD13	1:A:668:LYS:HE3	1.70	0.74
1:D:1649:PRO:HB3	1:D:1684:THR:HA	1.70	0.74
1:E:280:GLU:HG2	1:E:1399:SER:HB2	1.70	0.74
1:B:1868:TYR:OH	1:B:1974:LEU:O	2.06	0.74
1:E:2122:ALA:HB1	1:E:2175:GLU:HG2	1.68	0.74
1:J:1649:PRO:HB3	1:J:1684:THR:HA	1.68	0.74
1:B:1117:ASP:OD2	1:D:2134:ALA:HA	1.87	0.74
1:J:661:LYS:HD3	1:J:750:GLU:HB3	1.69	0.74
1:C:578:ILE:HG22	1:C:580:ASN:H	1.52	0.73
1:I:542:SER:O	1:I:548:LYS:NZ	2.20	0.73
1:B:127:ARG:HA	1:B:138:LEU:HD13	1.69	0.73
1:I:281:TYR:OH	1:I:952:ARG:NH1	2.20	0.73
1:D:1225:LYS:O	1:D:1230:ARG:NH1	2.21	0.73
1:F:2073:LYS:NZ	1:G:2218:GLU:OE2	2.19	0.73
1:C:1333:TYR:HD2	1:C:1358:ARG:HD3	1.53	0.73
1:E:1294:PHE:HA	1:E:1301:ARG:HB2	1.70	0.73
1:A:1400:ASN:HB3	1:A:1402:LEU:H	1.51	0.73
1:C:2073:LYS:NZ	1:D:2218:GLU:OE2	2.15	0.73
1:F:1321:ASP:HA	1:J:1810:GLN:HE22	1.52	0.73
1:D:612:VAL:HG22	1:D:637:ILE:HD12	1.70	0.73
1:B:1225:LYS:O	1:B:1230:ARG:NH1	2.21	0.73
1:J:147:SER:HA	1:J:1906:ARG:HE	1.53	0.73
1:F:1797:LYS:HE3	1:F:1801:SER:HB2	1.69	0.73
1:B:497:ILE:HD13	1:B:589:TYR:HD2	1.53	0.73
1:E:2442:ALA:HB3	1:E:2445:CYS:HB2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1250:TYR:HE2	1:D:1294:PHE:HB3	1.52	0.73
1:F:1172:LEU:HD21	1:F:1196:TYR:HB3	1.68	0.73
1:H:2433:LEU:HD22	1:H:2482:LEU:HD21	1.69	0.73
1:F:524:LEU:N	1:F:525:ASN:HA	2.03	0.73
1:A:1153:PRO:HB3	1:A:1171:TRP:HB2	1.70	0.73
1:F:2302:ALA:HB3	1:F:2304:LEU:HG	1.71	0.73
1:G:1630:GLN:HG2	1:G:1819:ARG:HB3	1.70	0.73
1:F:940:GLU:HG3	1:F:979:ALA:HB2	1.70	0.73
1:J:353:TYR:HD2	1:J:397:LEU:HD12	1.52	0.73
1:B:197:ALA:HB3	1:B:948:THR:HG21	1.68	0.73
1:G:654:MET:HE3	1:G:765:VAL:HG22	1.67	0.73
1:I:218:LEU:HD21	1:I:239:ILE:HG21	1.70	0.73
1:A:1810:GLN:HE22	1:B:1321:ASP:HA	1.52	0.73
1:D:2330:GLU:HB2	1:E:2459:GLN:HA	1.71	0.73
1:B:844:ASN:H	1:C:564:ARG:HH22	1.36	0.73
1:A:102:GLN:HE22	1:A:1901:THR:HG23	1.53	0.73
1:C:193:ARG:HG2	1:C:250:ILE:HD11	1.71	0.73
1:J:1502:VAL:HG11	1:J:1537:ILE:HD13	1.70	0.73
1:I:370:ILE:O	1:I:378:LEU:N	2.19	0.72
1:B:237:LEU:HB2	1:B:479:PHE:HB2	1.71	0.72
1:D:141:ARG:NH2	1:D:1005:GLU:OE1	2.21	0.72
1:H:2106:ASN:HB2	1:H:2189:ARG:NH1	2.04	0.72
1:F:2364:GLY:HA2	1:F:2377:PHE:HE2	1.54	0.72
1:B:2046:ARG:NH2	1:B:2251:TYR:OH	2.22	0.72
1:A:1253:GLN:HB3	1:A:1296:THR:HA	1.69	0.72
1:D:1868:TYR:CD2	1:D:1976:ILE:HG12	2.24	0.72
1:I:276:LEU:HD23	1:I:437:LEU:HD13	1.70	0.72
1:F:1994:ALA:HB2	1:G:2065:LEU:HD11	1.69	0.72
1:C:197:ALA:HB3	1:C:948:THR:HG21	1.71	0.72
1:B:1633:GLN:HB3	1:B:1755:SER:HB2	1.69	0.72
1:B:994:GLN:NE2	1:B:1026:LYS:O	2.21	0.72
1:C:237:LEU:HB2	1:C:479:PHE:HB2	1.71	0.72
1:E:81:ALA:H	1:E:1816:TRP:HH2	1.35	0.72
1:J:1797:LYS:HE3	1:J:1801:SER:HB2	1.69	0.72
1:I:2410:ARG:HG3	1:I:2515:ILE:HG12	1.70	0.72
1:C:1267:LEU:HD21	1:C:1275:SER:HB2	1.69	0.72
1:I:2018:ARG:NH2	1:I:2468:LYS:O	2.23	0.72
1:F:2244:LYS:O	1:F:2247:ASN:ND2	2.23	0.72
1:C:59:ASN:OD1	1:C:1927:ARG:NH2	2.21	0.72
1:G:370:ILE:HG12	1:G:410:LEU:HD22	1.72	0.72
1:B:1012:VAL:HG13	1:B:1015:ARG:HD2	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:498:LEU:HD21	1:D:597:ILE:HD13	1.72	0.72
1:D:521:THR:HG23	1:D:522:PRO:HD3	1.71	0.72
1:A:1250:TYR:CE2	1:A:1294:PHE:HB3	2.23	0.72
1:I:592:LYS:NZ	1:I:596:ASP:OD2	2.21	0.72
1:G:2224:LYS:HE2	1:G:2228:LYS:HE3	1.69	0.72
1:D:1267:LEU:HD21	1:D:1275:SER:HB2	1.72	0.72
1:B:1653:SER:H	1:B:1713:LYS:HE3	1.53	0.72
1:I:432:ASN:HB3	1:I:435:SER:HB3	1.72	0.72
1:I:1639:LYS:HG2	1:I:1694:LEU:HB2	1.72	0.72
1:F:104:VAL:HG11	1:F:108:THR:HG21	1.72	0.72
1:J:1505:GLY:H	1:J:1542:LEU:HB3	1.54	0.72
1:C:289:SER:HB3	1:C:292:GLU:HG3	1.70	0.72
1:A:2073:LYS:NZ	1:B:2218:GLU:OE2	2.23	0.72
1:H:2273:CYS:HB3	1:H:2292:ILE:HD13	1.70	0.71
1:I:1653:SER:H	1:I:1713:LYS:HE3	1.54	0.71
1:B:553:ARG:NH2	1:B:556:ASN:OD1	2.23	0.71
1:C:453:SER:HB3	1:C:456:ILE:HG12	1.72	0.71
1:D:927:ASN:OD1	1:D:930:GLN:NE2	2.20	0.71
1:B:101:SER:HA	1:C:1429:THR:HG21	1.72	0.71
1:B:378:LEU:HB3	1:B:395:ILE:HD13	1.72	0.71
1:H:1296:THR:OG1	1:H:1297:ASN:N	2.22	0.71
1:E:471:ASN:OD1	1:E:472:THR:N	2.23	0.71
1:A:1650:TYR:HE1	1:A:1654:THR:HA	1.55	0.71
1:J:520:ASN:HD21	1:J:528:TYR:HB2	1.56	0.71
1:A:1122:TYR:HE2	1:A:1146:LYS:HG2	1.55	0.71
1:A:141:ARG:NH2	1:A:1005:GLU:OE1	2.24	0.71
1:F:1653:SER:H	1:F:1713:LYS:HE3	1.54	0.71
1:F:2106:ASN:HB2	1:F:2189:ARG:NH1	2.05	0.71
1:H:1630:GLN:HG2	1:H:1819:ARG:HB3	1.71	0.71
1:B:370:ILE:HG12	1:B:410:LEU:HD22	1.71	0.71
1:E:141:ARG:NH2	1:E:1005:GLU:OE1	2.23	0.71
1:D:524:LEU:N	1:D:525:ASN:HA	2.05	0.71
1:I:2433:LEU:HB2	1:I:2448:LEU:HB3	1.71	0.71
1:J:461:VAL:HG22	1:J:474:VAL:HG11	1.71	0.71
1:H:2335:VAL:HG21	1:H:2396:LEU:HD13	1.72	0.71
1:F:2442:ALA:HB3	1:F:2445:CYS:HB2	1.72	0.71
1:F:2087:LYS:HD3	1:G:2204:LYS:HB3	1.72	0.71
1:J:380:ARG:NH1	1:J:382:GLU:OE1	2.23	0.71
1:F:104:VAL:CG1	1:F:108:THR:HG21	2.20	0.71
1:G:2018:ARG:NH2	1:G:2468:LYS:O	2.23	0.71
1:F:1651:ASN:HB3	1:F:1652:LEU:HA	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2501:LEU:HA	1:G:2504:LEU:HD12	1.72	0.71
1:A:892:GLN:NE2	1:B:541:GLY:HA2	2.06	0.71
1:A:2393:PHE:HB3	1:A:2477:ILE:O	1.91	0.71
1:I:1630:GLN:HG2	1:I:1819:ARG:HB3	1.71	0.71
1:A:201:HIS:HB3	1:A:204:TYR:HB3	1.72	0.71
1:I:998:ASN:OD1	1:I:1026:LYS:NZ	2.23	0.71
1:J:528:TYR:HD1	1:J:550:ILE:HG21	1.56	0.71
1:G:1639:LYS:HG2	1:G:1694:LEU:HB2	1.73	0.71
1:D:1386:ILE:HD12	1:D:1408:TYR:HD1	1.55	0.71
1:J:237:LEU:HB2	1:J:479:PHE:HB2	1.72	0.71
1:A:197:ALA:HB3	1:A:948:THR:HG21	1.73	0.71
1:D:1328:TYR:HB2	1:D:1368:LYS:HG2	1.73	0.71
1:A:612:VAL:HG22	1:A:637:ILE:HD12	1.73	0.71
1:H:2403:PRO:HB2	1:I:2382:ASP:HB3	1.72	0.71
1:D:42:TRP:CH2	1:D:1321:ASP:HB2	2.26	0.71
1:G:1047:PRO:HB3	1:G:1777:MET:HB3	1.71	0.71
1:J:600:LEU:HD21	1:J:608:LEU:HD12	1.72	0.71
1:A:288:LEU:HD21	1:A:448:ARG:HD2	1.72	0.71
1:D:561:SER:HB3	1:D:602:ILE:HD12	1.72	0.71
1:H:1225:LYS:O	1:H:1230:ARG:NH1	2.23	0.71
1:C:1104:ASP:HA	1:C:1598:TRP:HZ2	1.54	0.70
1:D:670:LEU:HB2	1:D:699:THR:HG21	1.71	0.70
1:J:594:LEU:HD21	1:J:631:ILE:HG12	1.73	0.70
1:E:312:GLN:OE1	1:E:329:ARG:NH1	2.24	0.70
1:B:2422:LEU:H	1:B:2503:THR:HG21	1.56	0.70
1:B:594:LEU:HD21	1:B:631:ILE:HG12	1.71	0.70
1:B:962:LYS:NZ	1:B:1398:SER:OG	2.23	0.70
1:B:300:ALA:HB2	1:B:306:GLN:HE21	1.54	0.70
1:C:1385:PHE:HB2	1:C:1408:TYR:O	1.92	0.70
1:D:1794:ARG:NH2	1:D:1798:TYR:OH	2.24	0.70
1:I:1614:VAL:HG11	1:J:1166:ARG:HB2	1.73	0.70
1:I:1357:LEU:HD12	1:I:1555:PHE:HB3	1.73	0.70
1:D:378:LEU:HD13	1:D:395:ILE:HG21	1.73	0.70
1:A:1411:SER:HB2	1:A:1419:GLN:HA	1.73	0.70
1:D:600:LEU:HD21	1:D:608:LEU:HD12	1.72	0.70
1:C:1495:PRO:HG3	1:C:1520:GLN:OE1	1.91	0.70
1:H:193:ARG:HG2	1:H:250:ILE:HD11	1.71	0.70
1:G:1153:PRO:HB3	1:G:1171:TRP:HB2	1.73	0.70
1:C:528:TYR:OH	1:C:580:ASN:OD1	2.05	0.70
1:D:662:THR:H	1:D:753:VAL:HG11	1.57	0.70
1:F:1139:ASN:ND2	1:F:1829:SER:O	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1868:TYR:CD2	1:J:1976:ILE:HG12	2.27	0.70
1:J:402:ILE:HG23	1:J:428:VAL:HG13	1.73	0.70
1:C:1296:THR:OG1	1:C:1297:ASN:N	2.22	0.70
1:F:1630:GLN:HE22	1:F:1818:VAL:HA	1.55	0.70
1:J:1790:ASP:OD1	1:J:1863:ARG:NH2	2.24	0.70
1:J:783:PRO:HB3	1:J:794:PRO:HB3	1.70	0.70
1:G:2403:PRO:HB2	1:H:2382:ASP:HB3	1.74	0.70
1:H:2302:ALA:HB3	1:H:2304:LEU:HG	1.73	0.70
1:I:662:THR:H	1:I:753:VAL:HG11	1.56	0.70
1:F:414:LEU:HD12	1:F:416:SER:H	1.56	0.70
1:J:1139:ASN:ND2	1:J:1829:SER:O	2.25	0.70
1:J:276:LEU:HD23	1:J:437:LEU:HD13	1.73	0.70
1:B:1868:TYR:CD2	1:B:1976:ILE:HG12	2.26	0.70
1:H:714:TRP:CD1	1:H:794:PRO:HG2	2.26	0.70
1:I:1012:VAL:HG13	1:I:1015:ARG:HD2	1.74	0.70
1:D:1651:ASN:HB3	1:D:1652:LEU:HA	1.73	0.70
1:H:566:LEU:HD13	1:H:578:ILE:HD11	1.74	0.70
1:E:667:ILE:HD11	1:E:757:GLN:HG3	1.74	0.70
1:G:497:ILE:HD13	1:G:589:TYR:HD2	1.57	0.70
1:E:2337:LEU:HD22	1:E:2391:VAL:HG21	1.73	0.70
1:A:892:GLN:HE22	1:B:541:GLY:CA	2.04	0.70
1:G:844:ASN:H	1:H:564:ARG:HH22	1.39	0.70
1:E:237:LEU:HB2	1:E:479:PHE:HB2	1.71	0.70
1:E:1168:TYR:HD2	1:E:1200:LEU:HD21	1.57	0.70
1:A:192:PHE:HD2	1:A:198:THR:HG21	1.56	0.70
1:E:2027:ARG:NH2	1:E:2318:GLU:OE1	2.24	0.70
1:A:2046:ARG:NH2	1:A:2251:TYR:OH	2.24	0.70
1:F:578:ILE:HG22	1:F:580:ASN:H	1.57	0.69
1:G:998:ASN:OD1	1:G:1026:LYS:NZ	2.24	0.69
1:D:2244:LYS:O	1:D:2247:ASN:ND2	2.25	0.69
1:C:1503:LYS:HB2	1:C:1552:ASP:HB2	1.73	0.69
1:C:2338:ALA:HB2	1:C:2506:ASP:HB3	1.74	0.69
1:E:2253:TRP:HE3	1:E:2254:LEU:HD12	1.56	0.69
1:F:2198:ASN:HD21	1:J:2095:ARG:HD3	1.57	0.69
1:B:2095:ARG:HD3	1:C:2198:ASN:HD21	1.57	0.69
1:J:370:ILE:HG12	1:J:410:LEU:HD22	1.73	0.69
1:G:2410:ARG:HG3	1:G:2515:ILE:HG12	1.73	0.69
1:H:830:LEU:HD21	1:H:835:LEU:HD12	1.73	0.69
1:A:1117:ASP:H	1:B:1211:THR:HG21	1.57	0.69
1:E:2009:LEU:HD22	1:E:2294:PRO:HD3	1.72	0.69
1:H:218:LEU:HD21	1:H:239:ILE:HG21	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1994:ALA:HB2	1:B:2065:LEU:HD11	1.72	0.69
1:F:1225:LYS:O	1:F:1230:ARG:NH1	2.19	0.69
1:E:1944:LEU:HA	1:E:1947:LEU:HD13	1.73	0.69
1:H:1170:LEU:HD12	1:H:1236:CYS:SG	2.32	0.69
1:A:578:ILE:HG22	1:A:580:ASN:H	1.57	0.69
1:B:654:MET:HE3	1:B:765:VAL:HG22	1.74	0.69
1:I:2433:LEU:HD22	1:I:2482:LEU:HD21	1.74	0.69
1:D:1650:TYR:O	1:D:1651:ASN:ND2	2.25	0.69
1:F:2018:ARG:NH2	1:F:2468:LYS:O	2.25	0.69
1:J:2338:ALA:HB2	1:J:2506:ASP:HB3	1.73	0.69
1:I:1386:ILE:HG13	1:I:1410:TYR:HE1	1.57	0.69
1:I:414:LEU:HD12	1:I:416:SER:H	1.57	0.69
1:C:1794:ARG:NH2	1:C:1798:TYR:OH	2.25	0.69
1:F:1452:ILE:HB	1:J:90:ILE:HG12	1.73	0.69
1:E:414:LEU:HD12	1:E:416:SER:H	1.58	0.69
1:D:461:VAL:HG22	1:D:474:VAL:HG11	1.74	0.69
1:I:2144:ILE:HD12	1:J:2144:ILE:HG21	1.73	0.69
1:F:1267:LEU:HD21	1:F:1275:SER:HB2	1.73	0.69
1:J:1053:GLN:NE2	1:J:1058:ASP:OD1	2.23	0.69
1:H:892:GLN:NE2	1:I:541:GLY:HA2	2.07	0.69
1:G:1159:ARG:NH2	1:G:1301:ARG:O	2.26	0.69
1:B:1295:ASP:H	1:B:1301:ARG:HG3	1.57	0.69
1:F:2448:LEU:HB2	1:F:2472:PHE:HE1	1.58	0.69
1:J:1630:GLN:HG2	1:J:1819:ARG:HB3	1.72	0.69
1:A:1386:ILE:HG13	1:A:1410:TYR:HE1	1.58	0.69
1:F:2460:PHE:CE1	1:J:2512:ARG:HB3	2.27	0.69
1:C:67:LEU:O	1:C:103:TYR:OH	2.09	0.69
1:H:1253:GLN:HB3	1:H:1296:THR:HA	1.74	0.69
1:A:1651:ASN:HB3	1:A:1652:LEU:HA	1.73	0.69
1:F:2029:MET:HG3	1:F:2272:ARG:HG3	1.73	0.69
1:D:1868:TYR:HE1	1:D:1970:LEU:HG	1.58	0.69
1:E:2033:LEU:HD11	1:E:2266:TYR:HA	1.74	0.69
1:J:172:SER:HG	1:J:950:TYR:HE1	1.39	0.69
1:J:951:ILE:HD11	1:J:967:LEU:HB2	1.74	0.69
1:C:498:LEU:HD21	1:C:597:ILE:HD13	1.75	0.69
1:C:1559:ALA:HB2	1:C:1565:LEU:HD21	1.75	0.69
1:I:844:ASN:HB2	1:J:564:ARG:HH12	1.57	0.69
1:G:614:GLU:HG3	1:G:630:LEU:HG	1.73	0.69
1:H:73:GLN:NE2	1:H:1952:ILE:HG23	2.08	0.69
1:E:1093:VAL:H	1:E:1594:GLN:HE22	1.39	0.69
1:B:892:GLN:NE2	1:C:541:GLY:HA2	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1666:LYS:HD3	1:F:1706:LYS:HD3	1.75	0.69
1:G:237:LEU:HB2	1:G:479:PHE:HB2	1.74	0.69
1:A:2204:LYS:HB3	1:E:2087:LYS:HD3	1.73	0.69
1:J:1498:VAL:HG21	1:J:1530:TYR:HE2	1.57	0.69
1:A:844:ASN:HB2	1:B:564:ARG:HH12	1.56	0.69
1:C:2018:ARG:NH2	1:C:2468:LYS:O	2.26	0.69
1:B:1899:SER:HG	1:C:301:SER:HG	1.41	0.69
1:A:1639:LYS:HG2	1:A:1694:LEU:HB2	1.75	0.69
1:A:1650:TYR:O	1:A:1651:ASN:HB2	1.93	0.68
1:C:464:VAL:HG21	1:C:477:LYS:HD2	1.75	0.68
1:J:176:GLU:HG2	1:J:954:VAL:HG22	1.75	0.68
1:E:482:LYS:HA	1:E:485:MET:HE2	1.75	0.68
1:G:1328:TYR:HB2	1:G:1368:LYS:HG2	1.74	0.68
1:D:1505:GLY:H	1:D:1542:LEU:HB3	1.57	0.68
1:G:1296:THR:OG1	1:G:1297:ASN:N	2.24	0.68
1:G:2073:LYS:NZ	1:H:2218:GLU:OE2	2.23	0.68
1:I:1666:LYS:HD3	1:I:1706:LYS:HD3	1.75	0.68
1:G:2442:ALA:HB3	1:G:2445:CYS:HB2	1.75	0.68
1:J:1741:LEU:HD23	1:J:1742:THR:H	1.58	0.68
1:E:1666:LYS:HD3	1:E:1706:LYS:HD3	1.75	0.68
1:D:1797:LYS:HE3	1:D:1801:SER:HB2	1.74	0.68
1:C:771:ILE:HD11	1:C:804:LEU:HB3	1.75	0.68
1:D:1296:THR:OG1	1:D:1297:ASN:N	2.27	0.68
1:E:1296:THR:OG1	1:E:1297:ASN:N	2.25	0.68
1:A:1711:PHE:CE1	1:A:1714:SER:HB3	2.29	0.68
1:B:2302:ALA:HB3	1:B:2304:LEU:HG	1.75	0.68
1:I:1267:LEU:HD21	1:I:1275:SER:HB2	1.76	0.68
1:H:300:ALA:HB2	1:H:306:GLN:HE21	1.58	0.68
1:A:2512:ARG:HB3	1:B:2460:PHE:CE1	2.28	0.68
1:J:81:ALA:H	1:J:1816:TRP:HH2	1.41	0.68
1:F:1093:VAL:H	1:F:1594:GLN:HE22	1.40	0.68
1:E:2046:ARG:NH2	1:E:2251:TYR:OH	2.27	0.68
1:B:193:ARG:HG2	1:B:250:ILE:HD11	1.74	0.68
1:C:1284:ASN:O	1:C:1287:ARG:HG2	1.94	0.68
1:A:1868:TYR:CD2	1:A:1976:ILE:HG12	2.29	0.68
1:B:147:SER:HA	1:B:1906:ARG:HE	1.57	0.68
1:H:2027:ARG:NH2	1:H:2318:GLU:OE1	2.27	0.68
1:D:1122:TYR:CE2	1:D:1146:LYS:HG2	2.27	0.68
1:C:1295:ASP:H	1:C:1301:ARG:HG3	1.58	0.68
1:I:771:ILE:HD11	1:I:804:LEU:HB3	1.75	0.68
1:D:2073:LYS:NZ	1:E:2218:GLU:OE2	2.21	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1151:ILE:HG22	1:E:1153:PRO:HD3	1.75	0.68
1:E:962:LYS:NZ	1:E:1398:SER:O	2.27	0.68
1:G:42:TRP:HH2	1:G:1321:ASP:HB2	1.58	0.68
1:J:353:TYR:CD2	1:J:397:LEU:HD12	2.29	0.68
1:G:1711:PHE:CE1	1:G:1714:SER:HB3	2.28	0.68
1:A:1633:GLN:HB3	1:A:1755:SER:HB2	1.75	0.68
1:B:1496:ALA:HA	1:B:1514:ASP:HB2	1.76	0.68
1:B:521:THR:HG23	1:B:522:PRO:HD3	1.73	0.68
1:B:2029:MET:HG3	1:B:2272:ARG:HG3	1.75	0.68
1:G:197:ALA:HB3	1:G:948:THR:HG21	1.75	0.68
1:B:73:GLN:NE2	1:B:1952:ILE:HG23	2.09	0.68
1:D:237:LEU:HB2	1:D:479:PHE:HB2	1.74	0.68
1:A:600:LEU:HD21	1:A:608:LEU:HD12	1.74	0.68
1:C:414:LEU:HD12	1:C:416:SER:H	1.58	0.68
1:H:2095:ARG:HD3	1:I:2198:ASN:HD21	1.58	0.68
1:B:2018:ARG:NH2	1:B:2468:LYS:O	2.26	0.68
1:H:1291:TYR:O	1:H:1292:GLN:HG2	1.94	0.68
1:H:1777:MET:HE1	1:H:1852:THR:HG23	1.76	0.68
1:B:498:LEU:HD21	1:B:597:ILE:HD13	1.74	0.68
1:G:578:ILE:HG22	1:G:580:ASN:H	1.59	0.67
1:B:247:LEU:O	1:B:251:LEU:HG	1.94	0.67
1:A:789:ALA:O	1:A:790:THR:HG22	1.94	0.67
1:C:2512:ARG:HB3	1:D:2460:PHE:CE1	2.29	0.67
1:B:998:ASN:OD1	1:B:1026:LYS:NZ	2.26	0.67
1:J:2106:ASN:HB2	1:J:2189:ARG:NH1	2.10	0.67
1:G:2006:GLY:HA3	1:G:2008:LYS:HE2	1.76	0.67
1:D:71:ASN:ND2	1:D:1040:TYR:OH	2.27	0.67
1:F:2064:ILE:HG21	1:F:2231:GLN:HB2	1.75	0.67
1:G:2422:LEU:H	1:G:2503:THR:HG21	1.60	0.67
1:J:15:GLN:HB3	1:J:16:CYS:HB2	1.76	0.67
1:D:142:ARG:HD2	1:D:971:LEU:O	1.94	0.67
1:B:2087:LYS:HD3	1:C:2204:LYS:HB3	1.75	0.67
1:H:1021:TRP:HA	1:H:1025:ASN:HB2	1.76	0.67
1:A:1139:ASN:ND2	1:A:1829:SER:O	2.27	0.67
1:E:170:LEU:HD13	1:E:182:TYR:HD2	1.59	0.67
1:H:2244:LYS:O	1:H:2247:ASN:ND2	2.26	0.67
1:E:2398:ILE:HB	1:E:2477:ILE:HG21	1.76	0.67
1:I:2018:ARG:NH1	1:I:2473:GLU:OE2	2.28	0.67
1:J:1750:LEU:HB3	1:J:1753:ILE:HD12	1.75	0.67
1:H:414:LEU:HD12	1:H:416:SER:H	1.59	0.67
1:F:2008:LYS:NZ	1:F:2266:TYR:OH	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1296:THR:OG1	1:F:1297:ASN:N	2.28	0.67
1:C:1233:GLY:HA3	1:C:1250:TYR:HB2	1.76	0.67
1:I:1153:PRO:HB3	1:I:1171:TRP:HB2	1.76	0.67
1:A:2393:PHE:HE1	1:A:2482:LEU:HB2	1.60	0.67
1:I:351:GLU:OE1	1:I:398:ASN:ND2	2.27	0.67
1:B:2316:GLN:HG2	1:C:2268:LEU:HD11	1.76	0.67
1:E:600:LEU:HD21	1:E:608:LEU:HD12	1.75	0.67
1:F:1250:TYR:CE2	1:F:1294:PHE:HB3	2.27	0.67
1:F:654:MET:HE3	1:F:765:VAL:HG22	1.77	0.67
1:J:497:ILE:HD13	1:J:589:TYR:CD2	2.30	0.67
1:D:2512:ARG:HB3	1:E:2460:PHE:CE1	2.29	0.67
1:J:1213:ILE:HD13	1:J:1273:MET:HG3	1.77	0.67
1:J:1509:GLN:HE22	1:J:1538:ASP:H	1.42	0.67
1:B:662:THR:H	1:B:753:VAL:HG11	1.58	0.67
1:C:1293:GLN:O	1:C:1301:ARG:HB3	1.94	0.67
1:I:962:LYS:NZ	1:I:1398:SER:O	2.27	0.67
1:C:1868:TYR:CD2	1:C:1976:ILE:HG12	2.30	0.67
1:A:521:THR:HG23	1:A:522:PRO:HD3	1.77	0.67
1:J:1130:LYS:HB2	1:J:1140:ALA:HB2	1.75	0.67
1:I:892:GLN:HE22	1:J:541:GLY:C	1.97	0.67
1:I:1291:TYR:O	1:I:1292:GLN:HG2	1.95	0.67
1:D:814:LEU:HD13	1:D:821:VAL:HG21	1.76	0.67
1:E:1172:LEU:HD11	1:E:1221:ILE:HD11	1.77	0.67
1:E:1462:ASN:O	1:E:1462:ASN:ND2	2.28	0.67
1:D:654:MET:HE3	1:D:765:VAL:HG22	1.76	0.67
1:E:771:ILE:HD11	1:E:804:LEU:HB3	1.77	0.67
1:J:2410:ARG:HG3	1:J:2515:ILE:HG12	1.77	0.67
1:H:488:TYR:CZ	1:H:597:ILE:HD12	2.30	0.67
1:A:414:LEU:HD12	1:A:416:SER:H	1.59	0.67
1:F:340:GLN:HA	1:F:360:LYS:HB3	1.76	0.67
1:C:42:TRP:CH2	1:C:1321:ASP:HB2	2.29	0.67
1:E:1141:TRP:CD1	1:E:1763:ALA:HA	2.30	0.67
1:I:578:ILE:HG22	1:I:580:ASN:H	1.60	0.67
1:A:331:THR:HB	1:A:427:THR:HB	1.77	0.67
1:A:1333:TYR:HD2	1:A:1358:ARG:HD3	1.60	0.67
1:E:488:TYR:CZ	1:E:597:ILE:HD12	2.29	0.67
1:G:1411:SER:HB2	1:G:1419:GLN:HA	1.77	0.67
1:A:2027:ARG:NH2	1:A:2318:GLU:OE1	2.28	0.67
1:D:464:VAL:HG21	1:D:477:LYS:HD2	1.76	0.67
1:J:598:HIS:HB3	1:J:638:THR:HG21	1.77	0.66
1:A:1213:ILE:HD13	1:A:1273:MET:HG3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:67:LEU:O	1:E:103:TYR:OH	2.13	0.66
1:A:1122:TYR:CE2	1:A:1146:LYS:HG2	2.30	0.66
1:C:670:LEU:HB2	1:C:699:THR:HG21	1.77	0.66
1:I:1122:TYR:CE2	1:I:1146:LYS:HG2	2.29	0.66
1:E:2433:LEU:HD22	1:E:2482:LEU:HD21	1.78	0.66
1:A:1650:TYR:CE1	1:A:1654:THR:HA	2.30	0.66
1:G:2329:LEU:HB2	1:G:2515:ILE:HB	1.78	0.66
1:B:654:MET:O	1:B:796:HIS:NE2	2.27	0.66
1:J:414:LEU:HD12	1:J:416:SER:H	1.58	0.66
1:C:2410:ARG:HG3	1:C:2515:ILE:HG12	1.77	0.66
1:D:471:ASN:OD1	1:D:472:THR:N	2.29	0.66
1:H:2442:ALA:HB3	1:H:2445:CYS:HB2	1.77	0.66
1:E:612:VAL:HG22	1:E:637:ILE:HD12	1.78	0.66
1:D:405:PRO:HB2	1:D:425:LYS:HE2	1.77	0.66
1:E:2273:CYS:HB3	1:E:2292:ILE:HD13	1.78	0.66
1:E:1559:ALA:HB2	1:E:1565:LEU:HD21	1.76	0.66
1:F:312:GLN:OE1	1:F:329:ARG:NH1	2.29	0.66
1:D:1220:LYS:HG2	1:D:1265:GLN:HB3	1.78	0.66
1:H:1649:PRO:HB3	1:H:1684:THR:HA	1.76	0.66
1:F:1517:VAL:HG11	1:F:1520:GLN:HB3	1.77	0.66
1:C:1857:LEU:HD11	1:C:1890:LEU:HD21	1.77	0.66
1:B:2016:LEU:HD13	1:B:2468:LYS:HD3	1.78	0.66
1:I:2442:ALA:HB3	1:I:2445:CYS:HB2	1.78	0.66
1:H:1710:THR:HG23	1:H:1715:PRO:HA	1.76	0.66
1:J:789:ALA:O	1:J:790:THR:HG22	1.95	0.66
1:B:2338:ALA:HB2	1:B:2506:ASP:HB3	1.78	0.66
1:B:641:LEU:HD21	1:B:651:LEU:HD22	1.78	0.66
1:B:1655:HIS:NE2	1:B:1929:ASN:O	2.29	0.66
1:J:1459:ASP:HB3	1:J:1462:ASN:HB3	1.77	0.66
1:E:1253:GLN:HB3	1:E:1296:THR:HA	1.77	0.66
1:E:553:ARG:NH2	1:E:556:ASN:OD1	2.28	0.66
1:J:75:GLN:HE22	1:J:1895:TYR:HE2	1.43	0.66
1:F:1002:GLU:HG2	1:J:1802:PRO:HB2	1.76	0.66
1:E:2410:ARG:HG3	1:E:2515:ILE:HG12	1.76	0.66
1:D:789:ALA:O	1:D:790:THR:HG22	1.96	0.66
1:D:2253:TRP:HA	1:E:698:ALA:HB1	1.78	0.66
1:A:1101:ILE:HD11	1:A:1311:GLU:HB2	1.77	0.66
1:C:905:SER:HB2	1:C:910:PRO:HD3	1.78	0.66
1:F:1166:ARG:HB2	1:J:1614:VAL:HG11	1.78	0.66
1:B:2393:PHE:CE1	1:B:2482:LEU:HB2	2.31	0.66
1:G:1868:TYR:CD2	1:G:1976:ILE:HG12	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2393:PHE:HE1	1:H:2482:LEU:HB2	1.61	0.66
1:B:1639:LYS:HG2	1:B:1694:LEU:HB2	1.77	0.66
1:H:1502:VAL:HG11	1:H:1537:ILE:HD13	1.76	0.66
1:J:488:TYR:CZ	1:J:597:ILE:HD12	2.30	0.66
1:I:1899:SER:HG	1:J:301:SER:HG	1.44	0.66
1:F:641:LEU:HD21	1:F:651:LEU:HD22	1.77	0.66
1:J:521:THR:HG23	1:J:522:PRO:HD3	1.77	0.66
1:C:2403:PRO:HB2	1:D:2382:ASP:HB3	1.78	0.66
1:A:142:ARG:NH1	1:A:144:ASP:OD2	2.29	0.66
1:B:1284:ASN:O	1:B:1287:ARG:HG2	1.96	0.66
1:F:1711:PHE:CE1	1:F:1714:SER:HB3	2.30	0.66
1:A:1254:ASP:C	1:A:1256:LEU:H	1.99	0.66
1:C:2095:ARG:HD3	1:D:2198:ASN:HD21	1.61	0.66
1:A:81:ALA:H	1:A:1816:TRP:HH2	1.42	0.66
1:G:96:PHE:HA	1:G:1944:LEU:HD13	1.78	0.66
1:A:1384:LYS:O	1:A:1410:TYR:HB2	1.95	0.66
1:C:789:ALA:O	1:C:790:THR:HG22	1.96	0.66
1:H:654:MET:O	1:H:796:HIS:NE2	2.28	0.66
1:C:461:VAL:HG22	1:C:474:VAL:HG11	1.77	0.66
1:F:331:THR:HB	1:F:427:THR:HB	1.78	0.66
1:J:42:TRP:HH2	1:J:1321:ASP:HB2	1.59	0.65
1:F:1797:LYS:O	1:F:1805:TYR:OH	2.14	0.65
1:G:2405:SER:OG	1:G:2406:LEU:HA	1.95	0.65
1:I:844:ASN:H	1:J:564:ARG:HH22	1.42	0.65
1:I:2512:ARG:HB3	1:J:2460:PHE:CE1	2.31	0.65
1:H:789:ALA:O	1:H:790:THR:HG22	1.96	0.65
1:E:497:ILE:HD13	1:E:589:TYR:HD2	1.61	0.65
1:F:1012:VAL:HG13	1:F:1015:ARG:HD2	1.78	0.65
1:E:2377:PHE:HE1	1:E:2387:LEU:HD12	1.61	0.65
1:B:1649:PRO:HB3	1:B:1683:ASP:HA	1.77	0.65
1:D:830:LEU:HD21	1:D:835:LEU:HD12	1.79	0.65
1:G:370:ILE:HD12	1:G:379:VAL:HB	1.78	0.65
1:J:2336:SER:HB2	1:J:2506:ASP:OD1	1.97	0.65
1:A:193:ARG:HG2	1:A:250:ILE:HD11	1.78	0.65
1:H:255:ILE:HD12	1:H:439:LYS:HG3	1.78	0.65
1:G:2448:LEU:HB2	1:G:2472:PHE:HE1	1.60	0.65
1:E:1499:GLN:HB2	1:E:1556:THR:HG23	1.79	0.65
1:A:370:ILE:HG12	1:A:410:LEU:HD22	1.77	0.65
1:A:1092:LYS:HE3	1:A:1588:HIS:CD2	2.31	0.65
1:J:471:ASN:OD1	1:J:472:THR:N	2.29	0.65
1:A:1279:THR:HG23	1:A:1282:GLN:H	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:927:ASN:OD1	1:E:930:GLN:NE2	2.26	0.65
1:J:1093:VAL:H	1:J:1594:GLN:HE22	1.43	0.65
1:I:517:ARG:O	1:I:521:THR:OG1	2.14	0.65
1:G:461:VAL:HG22	1:G:474:VAL:HG11	1.78	0.65
1:B:1098:HIS:HE1	1:B:1103:ASN:HA	1.60	0.65
1:C:1419:GLN:HB3	1:C:1462:ASN:OD1	1.96	0.65
1:B:1117:ASP:OD1	1:B:1118:ALA:N	2.29	0.65
1:I:1104:ASP:HA	1:I:1598:TRP:HZ2	1.61	0.65
1:J:1719:THR:HG23	1:J:1721:TRP:HB2	1.78	0.65
1:A:2106:ASN:ND2	1:A:2189:ARG:HB2	2.11	0.65
1:C:965:ASP:OD2	1:C:976:GLN:NE2	2.30	0.65
1:E:670:LEU:HB2	1:E:699:THR:HG21	1.78	0.65
1:A:2029:MET:HG3	1:A:2272:ARG:HG3	1.78	0.65
1:J:1225:LYS:O	1:J:1230:ARG:NH1	2.22	0.65
1:I:962:LYS:HB2	1:I:1401:LYS:HE2	1.79	0.65
1:A:90:ILE:HA	1:B:1452:ILE:HD12	1.78	0.65
1:F:1711:PHE:HE1	1:F:1714:SER:HB3	1.62	0.65
1:E:947:SER:HB2	1:E:975:ASN:HD22	1.62	0.65
1:D:2364:GLY:HA2	1:D:2377:PHE:CE2	2.30	0.65
1:C:314:ILE:HD13	1:C:329:ARG:HG3	1.78	0.65
1:A:299:LYS:HA	1:E:1898:LEU:HD12	1.79	0.65
1:D:2018:ARG:NH2	1:D:2468:LYS:O	2.28	0.65
1:B:2393:PHE:HE1	1:B:2482:LEU:HB2	1.61	0.65
1:H:1896:LEU:HD21	1:H:1952:ILE:HD11	1.78	0.65
1:C:471:ASN:OD1	1:C:472:THR:N	2.30	0.65
1:J:927:ASN:OD1	1:J:930:GLN:NE2	2.21	0.65
1:H:2348:ASN:O	1:H:2350:PRO:HD3	1.95	0.65
1:I:1868:TYR:CD2	1:I:1976:ILE:HG12	2.32	0.65
1:C:124:ARG:HB2	1:C:1911:ALA:HB1	1.77	0.65
1:B:471:ASN:OD1	1:B:472:THR:N	2.30	0.65
1:F:1384:LYS:O	1:F:1410:TYR:HB2	1.96	0.65
1:H:271:ILE:HG23	1:H:952:ARG:HH22	1.62	0.65
1:A:1400:ASN:ND2	1:A:1478:GLY:O	2.30	0.65
1:H:1254:ASP:C	1:H:1256:LEU:H	2.00	0.65
1:H:1172:LEU:HD21	1:H:1196:TYR:HB3	1.79	0.65
1:C:90:ILE:HA	1:D:1452:ILE:HD12	1.78	0.65
1:D:1658:GLU:HB3	1:D:1712:LYS:HB3	1.77	0.65
1:I:1394:ASN:O	1:I:1398:SER:OG	2.14	0.65
1:A:1220:LYS:HG2	1:A:1265:GLN:HB3	1.79	0.65
1:C:90:ILE:HG12	1:D:1452:ILE:HB	1.79	0.65
1:J:211:ILE:HG21	1:J:239:ILE:HD13	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:456:ILE:HG23	1:B:496:LEU:HD11	1.78	0.65
1:C:176:GLU:HG2	1:C:954:VAL:HG22	1.78	0.65
1:E:1719:THR:HG23	1:E:1721:TRP:HB2	1.77	0.65
1:F:1254:ASP:C	1:F:1256:LEU:H	1.99	0.65
1:A:1797:LYS:HE3	1:A:1801:SER:HB2	1.77	0.65
1:C:1250:TYR:CE2	1:C:1294:PHE:HB3	2.31	0.65
1:G:1093:VAL:HG11	1:G:1110:PHE:HD2	1.62	0.65
1:G:1459:ASP:HB3	1:G:1462:ASN:HB3	1.79	0.65
1:H:2364:GLY:HA2	1:H:2377:PHE:HE2	1.61	0.65
1:I:141:ARG:NH1	1:I:970:TYR:O	2.29	0.65
1:H:471:ASN:OD1	1:H:472:THR:N	2.30	0.65
1:J:1651:ASN:HB3	1:J:1652:LEU:HA	1.79	0.65
1:A:2106:ASN:HB2	1:A:2189:ARG:NH1	2.12	0.64
1:F:170:LEU:HD13	1:F:182:TYR:HD2	1.61	0.64
1:D:2100:GLY:HA2	1:D:2196:ARG:HD3	1.78	0.64
1:B:620:SER:OG	1:B:621:ALA:N	2.30	0.64
1:B:1381:LEU:HB3	1:B:1523:PRO:HB2	1.79	0.64
1:I:1225:LYS:HE3	1:I:1252:GLN:HG2	1.78	0.64
1:F:2268:LEU:HD11	1:J:2316:GLN:HG2	1.78	0.64
1:F:1505:GLY:H	1:F:1542:LEU:HB2	1.61	0.64
1:A:1498:VAL:HG21	1:A:1530:TYR:HE2	1.60	0.64
1:A:1179:LYS:HE3	1:A:1180:GLN:HG2	1.79	0.64
1:H:2018:ARG:NH2	1:H:2468:LYS:O	2.31	0.64
1:E:1597:GLN:HG2	1:E:1602:ARG:HG2	1.78	0.64
1:G:1255:THR:HA	1:G:1296:THR:HG21	1.79	0.64
1:G:1653:SER:H	1:G:1713:LYS:HE3	1.61	0.64
1:I:614:GLU:HG3	1:I:630:LEU:HG	1.78	0.64
1:B:2512:ARG:HB3	1:C:2460:PHE:CE1	2.32	0.64
1:D:1294:PHE:HA	1:D:1301:ARG:HB2	1.79	0.64
1:E:2273:CYS:HB3	1:E:2292:ILE:CD1	2.27	0.64
1:H:1868:TYR:CD2	1:H:1976:ILE:HG12	2.33	0.64
1:F:1719:THR:HG23	1:F:1721:TRP:HB2	1.78	0.64
1:H:1802:PRO:HB2	1:I:1002:GLU:HG2	1.79	0.64
1:C:1254:ASP:C	1:C:1256:LEU:H	2.01	0.64
1:E:147:SER:HA	1:E:1906:ARG:HE	1.63	0.64
1:G:1426:ARG:NH1	1:G:1428:THR:OG1	2.30	0.64
1:H:1225:LYS:HE3	1:H:1252:GLN:HG2	1.79	0.64
1:B:2018:ARG:NH1	1:B:2473:GLU:OE2	2.30	0.64
1:D:211:ILE:HG21	1:D:239:ILE:HD13	1.80	0.64
1:H:1865:ASP:OD1	1:H:1966:ARG:NH1	2.30	0.64
1:E:962:LYS:NZ	1:E:1398:SER:OG	2.25	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2106:ASN:ND2	1:I:2189:ARG:HB2	2.12	0.64
1:J:2393:PHE:HB3	1:J:2477:ILE:O	1.98	0.64
1:J:450:THR:HG21	1:J:478:VAL:HG11	1.80	0.64
1:E:135:VAL:HG21	1:E:958:ALA:HB3	1.80	0.64
1:D:1890:LEU:HB3	1:D:1960:TRP:CH2	2.32	0.64
1:A:135:VAL:HG21	1:A:958:ALA:HB3	1.79	0.64
1:C:370:ILE:HG12	1:C:410:LEU:HD22	1.80	0.64
1:H:2122:ALA:HB1	1:H:2175:GLU:HG2	1.79	0.64
1:B:1630:GLN:HE22	1:B:1818:VAL:HA	1.61	0.64
1:G:1170:LEU:HD12	1:G:1236:CYS:SG	2.37	0.64
1:A:2009:LEU:HD22	1:A:2294:PRO:HD3	1.80	0.64
1:H:1268:TYR:OH	1:H:1286:TYR:OH	2.08	0.64
1:I:620:SER:OG	1:I:621:ALA:N	2.31	0.64
1:C:398:ASN:OD1	1:C:399:THR:N	2.30	0.64
1:F:1810:GLN:NE2	1:G:1321:ASP:HA	2.12	0.64
1:F:141:ARG:NH1	1:F:970:TYR:O	2.31	0.64
1:G:1254:ASP:O	1:G:1256:LEU:N	2.31	0.64
1:G:471:ASN:OD1	1:G:472:THR:N	2.31	0.64
1:I:1685:ASN:ND2	1:J:1524:SER:OG	2.30	0.64
1:C:1636:GLN:O	1:C:1637:LEU:HG	1.97	0.64
1:C:2433:LEU:HD22	1:C:2482:LEU:HD21	1.78	0.64
1:I:90:ILE:HD11	1:J:1453:GLY:H	1.63	0.64
1:J:1868:TYR:OH	1:J:1974:LEU:O	2.16	0.64
1:A:2273:CYS:HB3	1:A:2292:ILE:HD13	1.80	0.64
1:J:67:LEU:O	1:J:103:TYR:OH	2.15	0.64
1:A:2102:LEU:HD13	1:A:2192:TRP:CZ2	2.33	0.64
1:D:863:THR:OG1	1:D:866:ASN:ND2	2.30	0.64
1:E:42:TRP:HH2	1:E:1321:ASP:HB2	1.62	0.64
1:E:952:ARG:HG3	1:E:953:GLN:HG3	1.78	0.64
1:C:1704:HIS:CD2	1:C:1726:VAL:HG23	2.33	0.64
1:G:1650:TYR:HE1	1:G:1654:THR:HA	1.62	0.64
1:D:994:GLN:NE2	1:D:1026:LYS:O	2.30	0.64
1:D:998:ASN:OD1	1:D:1026:LYS:NZ	2.31	0.64
1:F:1604:ARG:NH1	1:F:1634:GLU:HB3	2.13	0.64
1:B:135:VAL:HG21	1:B:958:ALA:HB3	1.79	0.64
1:E:1153:PRO:HB3	1:E:1171:TRP:HB2	1.80	0.64
1:C:1213:ILE:HD13	1:C:1273:MET:HG3	1.80	0.64
1:C:930:GLN:HA	1:C:933:THR:HG22	1.80	0.64
1:G:1027:ARG:HH11	1:G:1030:THR:HG21	1.62	0.64
1:D:341:MET:SD	1:D:342:ASP:N	2.71	0.63
1:F:2095:ARG:HD3	1:G:2198:ASN:HD21	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1660:TRP:CE2	1:I:1680:GLN:HB3	2.33	0.63
1:H:1054:THR:OG1	1:H:1770:GLU:OE2	2.15	0.63
1:D:1280:PRO:O	1:D:1284:ASN:ND2	2.30	0.63
1:G:414:LEU:HD12	1:G:416:SER:H	1.62	0.63
1:A:2442:ALA:HB3	1:A:2445:CYS:HB2	1.80	0.63
1:E:141:ARG:NH1	1:E:970:TYR:O	2.32	0.63
1:B:1098:HIS:CE1	1:B:1103:ASN:HA	2.33	0.63
1:E:2108:ASN:HB3	1:E:2111:GLU:HG3	1.79	0.63
1:E:1284:ASN:O	1:E:1287:ARG:HG2	1.98	0.63
1:E:1260:LYS:HA	1:E:1287:ARG:HH12	1.64	0.63
1:B:789:ALA:O	1:B:790:THR:HG22	1.98	0.63
1:B:2431:ALA:HB3	1:B:2450:VAL:HG13	1.80	0.63
1:F:844:ASN:H	1:G:564:ARG:HH22	1.45	0.63
1:D:2106:ASN:HB2	1:D:2189:ARG:NH1	2.13	0.63
1:A:1666:LYS:HD3	1:A:1706:LYS:HD3	1.79	0.63
1:B:2410:ARG:HG3	1:B:2515:ILE:HG12	1.80	0.63
1:C:2393:PHE:HB3	1:C:2477:ILE:O	1.97	0.63
1:J:1649:PRO:HB3	1:J:1683:ASP:HA	1.79	0.63
1:E:2253:TRP:CE3	1:E:2254:LEU:HD12	2.33	0.63
1:J:1704:HIS:CD2	1:J:1727:ARG:H	2.16	0.63
1:B:2280:TYR:OH	1:B:2324:ARG:NH1	2.31	0.63
1:C:1153:PRO:HB3	1:C:1171:TRP:HB2	1.79	0.63
1:G:520:ASN:HD21	1:G:528:TYR:HB2	1.64	0.63
1:G:2433:LEU:HB2	1:G:2448:LEU:HB3	1.79	0.63
1:I:2068:LEU:HD12	1:I:2227:LEU:HB3	1.79	0.63
1:E:2405:SER:OG	1:E:2406:LEU:HA	1.98	0.63
1:J:2445:CYS:HB3	1:J:2471:PRO:HA	1.79	0.63
1:H:1505:GLY:H	1:H:1542:LEU:HB2	1.63	0.63
1:E:789:ALA:O	1:E:790:THR:HG22	1.99	0.63
1:H:994:GLN:NE2	1:H:1026:LYS:O	2.32	0.63
1:F:892:GLN:HE22	1:G:541:GLY:C	2.02	0.63
1:C:863:THR:OG1	1:C:866:ASN:OD1	2.15	0.63
1:A:2460:PHE:CE1	1:E:2512:ARG:HB3	2.34	0.63
1:E:2497:GLN:HG2	1:E:2500:MET:SD	2.38	0.63
1:H:1719:THR:HG23	1:H:1721:TRP:HB2	1.78	0.63
1:A:771:ILE:HD11	1:A:804:LEU:HB3	1.80	0.63
1:A:464:VAL:HG21	1:A:477:LYS:HD2	1.80	0.63
1:H:2046:ARG:NH2	1:H:2251:TYR:OH	2.31	0.63
1:G:42:TRP:CH2	1:G:1321:ASP:HB2	2.33	0.63
1:I:2338:ALA:HB2	1:I:2506:ASP:HB3	1.80	0.63
1:I:300:ALA:HB2	1:I:306:GLN:HE21	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2108:ASN:HB3	1:A:2111:GLU:HG3	1.81	0.63
1:D:314:ILE:HD13	1:D:329:ARG:HG3	1.79	0.63
1:C:2253:TRP:HA	1:D:698:ALA:HB1	1.80	0.63
1:C:1892:ASP:OD2	1:D:1401:LYS:NZ	2.22	0.63
1:F:1607:THR:HG22	1:F:1764:ASN:HD22	1.64	0.63
1:F:789:ALA:O	1:F:790:THR:HG22	1.99	0.63
1:J:141:ARG:NH1	1:J:970:TYR:O	2.31	0.63
1:B:1599:GLN:HB3	1:B:1674:HIS:CE1	2.33	0.63
1:J:1250:TYR:HD2	1:J:1294:PHE:HD2	1.46	0.63
1:C:1171:TRP:NE1	1:C:1173:GLU:OE1	2.31	0.63
1:A:493:GLU:OE1	1:A:517:ARG:NH1	2.32	0.63
1:E:1651:ASN:HB3	1:E:1652:LEU:HA	1.79	0.63
1:H:337:ASN:HB3	1:H:339:TYR:O	1.98	0.63
1:C:1170:LEU:HD12	1:C:1236:CYS:SG	2.38	0.63
1:A:456:ILE:HG23	1:A:496:LEU:HD11	1.79	0.63
1:G:1498:VAL:HG21	1:G:1530:TYR:HE2	1.63	0.63
1:C:1760:PHE:CG	1:C:1820:PRO:HG3	2.34	0.63
1:I:1233:GLY:HA3	1:I:1250:TYR:HB2	1.80	0.63
1:C:1172:LEU:HD11	1:C:1221:ILE:HD11	1.79	0.63
1:F:2203:LEU:O	1:F:2207:ASP:HB2	1.99	0.63
1:D:1642:TYR:OH	1:D:1756:GLU:HG3	1.99	0.63
1:D:1614:VAL:HG11	1:E:1166:ARG:HB2	1.80	0.63
1:A:1642:TYR:HE2	1:A:1691:PHE:HB2	1.63	0.63
1:G:1122:TYR:HE2	1:G:1146:LYS:HG2	1.63	0.63
1:B:1650:TYR:OH	1:B:1659:ARG:NE	2.31	0.63
1:A:1163:TYR:CD2	1:A:1245:LEU:HB3	2.34	0.63
1:H:600:LEU:HD21	1:H:608:LEU:HD12	1.81	0.63
1:F:2305:LEU:HD21	1:G:2258:LEU:HD12	1.79	0.63
1:B:1254:ASP:C	1:B:1256:LEU:H	2.02	0.63
1:A:471:ASN:OD1	1:A:472:THR:N	2.32	0.63
1:B:464:VAL:HG22	1:B:477:LYS:HD2	1.80	0.63
1:H:1660:TRP:CE2	1:H:1680:GLN:HB3	2.33	0.63
1:C:1400:ASN:HB3	1:C:1402:LEU:H	1.64	0.63
1:G:2122:ALA:HB1	1:G:2175:GLU:HG2	1.80	0.63
1:B:2433:LEU:HD22	1:B:2482:LEU:HD21	1.81	0.62
1:A:564:ARG:HH12	1:E:844:ASN:HB2	1.64	0.62
1:C:2424:GLY:O	1:C:2427:GLN:HB2	1.99	0.62
1:C:1865:ASP:OD1	1:C:1966:ARG:NH1	2.32	0.62
1:B:1651:ASN:OD1	1:B:1652:LEU:HA	1.99	0.62
1:G:2512:ARG:HB3	1:H:2460:PHE:CE1	2.33	0.62
1:E:2393:PHE:CE1	1:E:2482:LEU:HB2	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:318:VAL:HG12	1:I:325:VAL:HA	1.81	0.62
1:J:1310:TYR:HE1	1:J:1576:LEU:HD13	1.63	0.62
1:I:1704:HIS:CD2	1:I:1727:ARG:H	2.17	0.62
1:I:471:ASN:OD1	1:I:472:THR:N	2.32	0.62
1:E:1327:TYR:CE2	1:E:1487:VAL:HG11	2.34	0.62
1:B:1408:TYR:CG	1:B:1467:LEU:HD12	2.34	0.62
1:A:670:LEU:HB2	1:A:699:THR:HG21	1.80	0.62
1:I:194:PRO:O	1:I:285:TYR:OH	2.13	0.62
1:H:1390:SER:HB3	1:H:1484:SER:HB2	1.80	0.62
1:A:2410:ARG:HG3	1:A:2515:ILE:HG12	1.81	0.62
1:D:1810:GLN:HE22	1:E:1321:ASP:HA	1.64	0.62
1:C:1704:HIS:HD2	1:C:1726:VAL:HG23	1.63	0.62
1:E:1503:LYS:HB2	1:E:1552:ASP:HB2	1.82	0.62
1:F:146:LYS:O	1:F:1908:ASP:HB2	1.99	0.62
1:A:300:ALA:HB2	1:A:306:GLN:HE21	1.64	0.62
1:C:2122:ALA:HB1	1:C:2175:GLU:HG2	1.80	0.62
1:G:1633:GLN:HB3	1:G:1755:SER:HB2	1.80	0.62
1:D:337:ASN:HB3	1:D:339:TYR:O	1.98	0.62
1:G:1021:TRP:HA	1:G:1025:ASN:HB2	1.80	0.62
1:H:1384:LYS:O	1:H:1410:TYR:HB2	1.99	0.62
1:F:2273:CYS:HB3	1:F:2292:ILE:HD13	1.81	0.62
1:G:789:ALA:O	1:G:790:THR:HG22	1.98	0.62
1:E:1636:GLN:O	1:E:1637:LEU:HG	1.98	0.62
1:D:210:VAL:HG11	1:D:922:LEU:HB3	1.80	0.62
1:J:2405:SER:OG	1:J:2406:LEU:HA	1.99	0.62
1:G:1865:ASP:OD1	1:G:1883:TYR:OH	2.15	0.62
1:G:276:LEU:HA	1:G:281:TYR:CD2	2.35	0.62
1:H:1295:ASP:H	1:H:1301:ARG:HG3	1.65	0.62
1:F:564:ARG:HH22	1:J:844:ASN:H	1.45	0.62
1:D:1172:LEU:HD11	1:D:1221:ILE:HD11	1.80	0.62
1:J:1284:ASN:O	1:J:1287:ARG:HG2	2.00	0.62
1:I:1296:THR:OG1	1:I:1297:ASN:N	2.31	0.62
1:G:1587:HIS:CE1	1:G:1597:GLN:HE22	2.17	0.62
1:C:984:THR:HG22	1:C:987:ALA:H	1.64	0.62
1:F:378:LEU:HD13	1:F:395:ILE:HG21	1.81	0.62
1:D:414:LEU:HD12	1:D:416:SER:H	1.64	0.62
1:I:725:MET:HG2	1:I:755:TYR:HB2	1.79	0.62
1:E:1170:LEU:HD12	1:E:1236:CYS:SG	2.39	0.62
1:B:670:LEU:HD11	1:B:696:ILE:HG22	1.82	0.62
1:H:2360:LEU:HG	1:H:2366:GLY:HA3	1.82	0.62
1:B:99:ARG:HH11	1:B:1947:LEU:HB3	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1650:TYR:OH	1:E:1655:HIS:HB3	1.99	0.62
1:H:402:ILE:HG23	1:H:428:VAL:HG13	1.80	0.62
1:G:2016:LEU:HD23	1:G:2443:ASN:HB3	1.81	0.62
1:H:67:LEU:O	1:H:103:TYR:OH	2.17	0.62
1:I:498:LEU:HD21	1:I:597:ILE:HD13	1.82	0.62
1:A:1124:ARG:NH1	1:A:1764:ASN:OD1	2.32	0.62
1:G:1012:VAL:HG13	1:G:1015:ARG:HD2	1.79	0.62
1:A:598:HIS:HB3	1:A:638:THR:HG21	1.81	0.62
1:G:1398:SER:HB3	1:G:1480:ALA:HB3	1.80	0.62
1:F:2364:GLY:HA2	1:F:2377:PHE:CE2	2.34	0.62
1:J:108:THR:HG22	1:J:152:GLN:HE22	1.64	0.62
1:D:2046:ARG:NH2	1:D:2251:TYR:OH	2.33	0.62
1:A:181:ASN:OD1	1:A:182:TYR:N	2.33	0.62
1:B:2100:GLY:HA2	1:B:2196:ARG:HD3	1.82	0.62
1:C:1630:GLN:HG2	1:C:1819:ARG:HB3	1.82	0.62
1:J:2027:ARG:NH2	1:J:2318:GLU:OE1	2.33	0.62
1:C:1805:TYR:OH	1:C:1817:ASN:HB2	2.00	0.62
1:I:1351:ILE:HG23	1:I:1537:ILE:HB	1.81	0.62
1:I:1384:LYS:O	1:I:1410:TYR:HB2	2.00	0.62
1:J:2329:LEU:HB2	1:J:2515:ILE:HB	1.82	0.62
1:J:1310:TYR:CE1	1:J:1576:LEU:HD13	2.35	0.62
1:A:243:ILE:HG23	1:A:247:LEU:HD22	1.81	0.62
1:D:1630:GLN:HE22	1:D:1818:VAL:HA	1.64	0.62
1:I:1138:ALA:HA	1:I:1141:TRP:HD1	1.65	0.62
1:A:271:ILE:HG23	1:A:952:ARG:HH22	1.64	0.62
1:H:620:SER:OG	1:H:621:ALA:N	2.32	0.62
1:I:255:ILE:HD12	1:I:439:LYS:HG3	1.80	0.62
1:D:1256:LEU:HD23	1:D:1257:ASP:O	1.99	0.62
1:G:1213:ILE:HD13	1:G:1273:MET:HG3	1.81	0.62
1:D:962:LYS:NZ	1:D:1398:SER:O	2.33	0.62
1:F:2241:LEU:HD13	1:F:2244:LYS:HD3	1.80	0.62
1:G:1233:GLY:HA3	1:G:1250:TYR:HB2	1.82	0.62
1:E:42:TRP:CH2	1:E:1321:ASP:HB2	2.35	0.62
1:E:1291:TYR:O	1:E:1292:GLN:HG2	1.99	0.62
1:B:1660:TRP:CE2	1:B:1680:GLN:HB3	2.35	0.62
1:E:1357:LEU:HD12	1:E:1555:PHE:HD2	1.64	0.62
1:B:2442:ALA:HB3	1:B:2445:CYS:HB2	1.81	0.62
1:H:378:LEU:HD13	1:H:395:ILE:HD13	1.82	0.62
1:J:1170:LEU:HD12	1:J:1236:CYS:SG	2.40	0.62
1:J:158:GLU:HB3	1:J:982:LYS:HE2	1.81	0.62
1:I:2405:SER:OG	1:I:2406:LEU:HA	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2403:PRO:HB2	1:E:2382:ASP:HB3	1.81	0.62
1:G:1250:TYR:CE2	1:G:1294:PHE:HB3	2.35	0.61
1:D:1021:TRP:HA	1:D:1025:ASN:HB2	1.80	0.61
1:A:341:MET:SD	1:A:342:ASP:N	2.73	0.61
1:J:1381:LEU:HB3	1:J:1523:PRO:HB2	1.81	0.61
1:J:135:VAL:HG21	1:J:958:ALA:HB3	1.81	0.61
1:C:2108:ASN:HB3	1:C:2111:GLU:HG3	1.80	0.61
1:F:1426:ARG:NH1	1:F:1428:THR:OG1	2.31	0.61
1:E:1711:PHE:CE1	1:E:1714:SER:HB3	2.34	0.61
1:E:1794:ARG:NH2	1:E:1798:TYR:OH	2.33	0.61
1:G:147:SER:HA	1:G:1906:ARG:HE	1.64	0.61
1:A:1295:ASP:H	1:A:1301:ARG:HG3	1.65	0.61
1:C:1299:VAL:HG21	1:C:1301:ARG:HH21	1.65	0.61
1:G:1122:TYR:HB3	1:G:1144:TRP:HB3	1.82	0.61
1:D:1329:LEU:HD12	1:D:1368:LYS:HG3	1.82	0.61
1:G:1295:ASP:H	1:G:1301:ARG:HG3	1.65	0.61
1:A:2106:ASN:OD1	1:A:2107:ILE:HG13	1.99	0.61
1:H:370:ILE:HG12	1:H:410:LEU:HD22	1.82	0.61
1:D:2257:ARG:O	1:D:2261:ILE:HG22	2.01	0.61
1:E:1896:LEU:HD21	1:E:1952:ILE:HD11	1.81	0.61
1:H:276:LEU:HD23	1:H:437:LEU:HD13	1.81	0.61
1:E:1616:ARG:NH2	1:E:1628:GLU:HB2	2.14	0.61
1:E:2106:ASN:OD1	1:E:2107:ILE:HG13	2.00	0.61
1:E:1279:THR:HG23	1:E:1282:GLN:H	1.65	0.61
1:C:71:ASN:ND2	1:C:1040:TYR:OH	2.33	0.61
1:H:341:MET:SD	1:H:342:ASP:N	2.73	0.61
1:F:863:THR:OG1	1:F:866:ASN:OD1	2.16	0.61
1:G:1225:LYS:O	1:G:1230:ARG:NH1	2.25	0.61
1:A:964:ARG:HD2	1:A:975:ASN:ND2	2.15	0.61
1:F:314:ILE:HD13	1:F:329:ARG:HG3	1.81	0.61
1:G:124:ARG:HB2	1:G:1911:ALA:HB1	1.83	0.61
1:D:2405:SER:OG	1:D:2406:LEU:HA	2.00	0.61
1:F:2501:LEU:HA	1:F:2504:LEU:HD12	1.83	0.61
1:B:1794:ARG:NH2	1:B:1798:TYR:OH	2.33	0.61
1:G:1172:LEU:HD21	1:G:1196:TYR:HB3	1.81	0.61
1:J:1172:LEU:HD21	1:J:1196:TYR:HB3	1.83	0.61
1:E:127:ARG:HA	1:E:138:LEU:HD13	1.82	0.61
1:I:1400:ASN:HB3	1:I:1402:LEU:H	1.65	0.61
1:F:1704:HIS:HD2	1:F:1726:VAL:HG23	1.65	0.61
1:F:2106:ASN:OD1	1:F:2107:ILE:HG13	2.00	0.61
1:B:453:SER:HB3	1:B:456:ILE:HG12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1640:GLY:HA2	1:D:1691:PHE:HE1	1.65	0.61
1:I:789:ALA:O	1:I:790:THR:HG22	2.00	0.61
1:J:940:GLU:HG3	1:J:979:ALA:HB2	1.82	0.61
1:A:378:LEU:HD13	1:A:395:ILE:HG21	1.82	0.61
1:E:1254:ASP:C	1:E:1256:LEU:H	2.03	0.61
1:D:2095:ARG:HD3	1:E:2198:ASN:HD21	1.66	0.61
1:G:670:LEU:HB2	1:G:699:THR:HG21	1.83	0.61
1:D:2009:LEU:HD22	1:D:2294:PRO:HD3	1.83	0.61
1:J:36:VAL:HG12	1:J:40:LEU:HB2	1.82	0.61
1:F:2433:LEU:HB2	1:F:2448:LEU:HB3	1.82	0.61
1:C:296:PHE:O	1:C:312:GLN:NE2	2.33	0.61
1:F:1254:ASP:O	1:F:1256:LEU:N	2.33	0.61
1:B:604:GLU:HB3	1:B:648:VAL:HG21	1.83	0.61
1:D:1498:VAL:HG21	1:D:1530:TYR:HE2	1.64	0.61
1:I:1327:TYR:HE2	1:I:1487:VAL:HG11	1.65	0.61
1:C:1257:ASP:OD1	1:C:1258:SER:N	2.25	0.61
1:F:670:LEU:HB2	1:F:699:THR:HG21	1.81	0.61
1:H:2405:SER:OG	1:H:2406:LEU:HA	2.01	0.61
1:E:73:GLN:NE2	1:E:1952:ILE:HG23	2.16	0.61
1:E:2068:LEU:HD12	1:E:2227:LEU:HB3	1.82	0.61
1:G:733:TRP:NE1	1:G:748:THR:HB	2.15	0.61
1:H:1459:ASP:HB3	1:H:1462:ASN:HB3	1.81	0.61
1:J:1321:ASP:HB3	1:J:1569:SER:HB3	1.82	0.61
1:B:1153:PRO:HB3	1:B:1171:TRP:HB2	1.82	0.61
1:H:1254:ASP:O	1:H:1256:LEU:N	2.33	0.61
1:G:2463:ASP:O	1:G:2466:ASP:HB2	1.99	0.61
1:E:111:SER:HB3	1:E:114:SER:HB3	1.83	0.61
1:C:2029:MET:HG3	1:C:2272:ARG:HG3	1.83	0.61
1:E:1865:ASP:OD1	1:E:1966:ARG:NH1	2.34	0.61
1:F:1401:LYS:NZ	1:J:1892:ASP:OD2	2.26	0.61
1:F:598:HIS:HB3	1:F:638:THR:HG21	1.82	0.61
1:F:1374:LEU:HD21	1:F:1425:HIS:HB2	1.82	0.61
1:E:276:LEU:HA	1:E:281:TYR:HD2	1.65	0.61
1:D:2433:LEU:HB2	1:D:2448:LEU:HB3	1.83	0.61
1:D:2393:PHE:HE1	1:D:2482:LEU:HB2	1.66	0.61
1:H:2106:ASN:HB2	1:H:2189:ARG:HH11	1.63	0.61
1:A:1238:GLY:O	1:A:1305:ARG:HG3	2.01	0.61
1:H:1358:ARG:HH21	1:H:1360:ILE:HD11	1.64	0.61
1:J:125:GLU:HB3	1:J:1018:PHE:HE1	1.65	0.61
1:C:1357:LEU:HB3	1:C:1530:TYR:HB2	1.83	0.61
1:C:1105:GLN:NE2	1:C:1546:ASN:O	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:28:SER:OG	1:I:31:GLU:HG3	2.01	0.61
1:D:90:ILE:HG12	1:E:1452:ILE:HB	1.82	0.61
1:H:2393:PHE:CE1	1:H:2482:LEU:HB2	2.36	0.61
1:F:1502:VAL:HG11	1:F:1537:ILE:HD13	1.83	0.61
1:J:2018:ARG:NH1	1:J:2473:GLU:OE2	2.34	0.61
1:F:1498:VAL:HG21	1:F:1530:TYR:HE2	1.65	0.61
1:B:1737:PRO:HA	1:B:1738:LYS:C	2.21	0.61
1:I:446:LEU:HD13	1:I:457:LEU:HD22	1.83	0.61
1:F:1167:LEU:HD22	1:F:1209:TRP:HH2	1.65	0.61
1:J:1291:TYR:O	1:J:1292:GLN:HG2	2.01	0.60
1:A:1293:GLN:O	1:A:1301:ARG:HB3	2.01	0.60
1:J:347:PRO:HA	1:J:353:TYR:HD1	1.67	0.60
1:G:2364:GLY:HA2	1:G:2377:PHE:CE2	2.36	0.60
1:G:2364:GLY:HA2	1:G:2377:PHE:HE2	1.65	0.60
1:B:2360:LEU:HG	1:B:2366:GLY:HA3	1.83	0.60
1:G:450:THR:HG21	1:G:478:VAL:HG11	1.83	0.60
1:B:2111:GLU:OE1	1:C:2187:ARG:NH2	2.34	0.60
1:A:1602:ARG:HD2	1:A:1693:PRO:HB3	1.82	0.60
1:G:2118:ARG:NH2	1:H:2177:ASP:OD1	2.34	0.60
1:G:1300:ARG:O	1:G:1585:THR:HG23	2.00	0.60
1:H:1360:ILE:HD13	1:H:1527:GLU:HA	1.84	0.60
1:I:598:HIS:HB3	1:I:638:THR:HG21	1.81	0.60
1:D:1170:LEU:HD12	1:D:1236:CYS:SG	2.41	0.60
1:B:2106:ASN:ND2	1:B:2189:ARG:HH11	1.98	0.60
1:C:1639:LYS:HG2	1:C:1694:LEU:HB2	1.81	0.60
1:I:1711:PHE:CE1	1:I:1714:SER:HB3	2.36	0.60
1:A:698:ALA:HB1	1:E:2253:TRP:HA	1.83	0.60
1:C:1291:TYR:O	1:C:1292:GLN:HG2	2.01	0.60
1:A:964:ARG:HD2	1:A:975:ASN:HD21	1.65	0.60
1:A:1061:LEU:HD22	1:A:1778:LEU:HD11	1.84	0.60
1:C:458:GLU:OE1	1:C:506:ARG:NH2	2.33	0.60
1:A:146:LYS:O	1:A:1908:ASP:HB2	2.01	0.60
1:C:1168:TYR:CD2	1:C:1202:HIS:HB3	2.37	0.60
1:C:620:SER:OG	1:C:621:ALA:N	2.33	0.60
1:A:592:LYS:NZ	1:A:596:ASP:OD2	2.32	0.60
1:J:255:ILE:HD12	1:J:439:LYS:HG3	1.82	0.60
1:E:2018:ARG:NH1	1:E:2473:GLU:OE2	2.33	0.60
1:J:1475:ASP:HB2	1:J:1479:THR:HB	1.83	0.60
1:A:1159:ARG:HH12	1:A:1294:PHE:HE1	1.49	0.60
1:D:2393:PHE:HB3	1:D:2477:ILE:O	2.01	0.60
1:D:1384:LYS:O	1:D:1410:TYR:HB2	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:498:LEU:HD21	1:J:597:ILE:HD13	1.82	0.60
1:D:1257:ASP:OD1	1:D:1258:SER:N	2.33	0.60
1:G:273:PRO:HG3	1:G:434:TYR:HE2	1.66	0.60
1:H:1438:ILE:HB	1:H:1441:ALA:HB3	1.82	0.60
1:G:592:LYS:NZ	1:G:596:ASP:OD2	2.34	0.60
1:G:207:VAL:HG13	1:G:922:LEU:HD12	1.83	0.60
1:B:1800:TRP:HB2	1:B:1816:TRP:CD1	2.36	0.60
1:B:1371:GLN:O	1:B:1375:MET:HG3	2.01	0.60
1:A:962:LYS:NZ	1:A:1398:SER:OG	2.28	0.60
1:F:2258:LEU:HB2	1:J:2305:LEU:HD11	1.82	0.60
1:F:1495:PRO:HB2	1:F:1514:ASP:HB3	1.83	0.60
1:C:2405:SER:OG	1:C:2406:LEU:HA	2.01	0.60
1:C:1459:ASP:HB3	1:C:1462:ASN:HB3	1.82	0.60
1:F:1124:ARG:NH1	1:F:1764:ASN:OD1	2.34	0.60
1:J:1168:TYR:HD2	1:J:1200:LEU:HD21	1.67	0.60
1:F:620:SER:OG	1:F:621:ALA:N	2.35	0.60
1:A:1514:ASP:OD2	1:A:1515:LYS:N	2.34	0.60
1:B:158:GLU:OE2	1:B:982:LYS:HE2	2.01	0.60
1:F:2122:ALA:HB1	1:F:2175:GLU:HG2	1.83	0.60
1:B:15:GLN:HB3	1:B:16:CYS:HB2	1.84	0.60
1:B:2118:ARG:NH2	1:C:2177:ASP:OD1	2.34	0.60
1:G:1104:ASP:HA	1:G:1598:TRP:HZ2	1.65	0.60
1:D:15:GLN:HB3	1:D:16:CYS:HB2	1.83	0.60
1:G:771:ILE:HD11	1:G:804:LEU:HD13	1.83	0.60
1:E:1710:THR:HG23	1:E:1715:PRO:HA	1.82	0.60
1:E:36:VAL:HG11	1:E:40:LEU:HD22	1.83	0.60
1:H:497:ILE:HD13	1:H:589:TYR:CD2	2.33	0.60
1:F:541:GLY:HA2	1:J:892:GLN:HE21	1.66	0.60
1:H:1649:PRO:HB3	1:H:1683:ASP:HA	1.83	0.60
1:G:331:THR:HB	1:G:427:THR:HB	1.84	0.60
1:A:620:SER:OG	1:A:621:ALA:N	2.33	0.60
1:F:2039:THR:O	1:F:2043:ILE:HG12	2.01	0.60
1:B:1994:ALA:HB2	1:C:2065:LEU:HD11	1.84	0.60
1:J:1328:TYR:HB2	1:J:1368:LYS:HG2	1.81	0.60
1:C:2431:ALA:HB3	1:C:2450:VAL:HG13	1.84	0.60
1:F:2405:SER:OG	1:F:2406:LEU:HA	2.00	0.60
1:G:192:PHE:CZ	1:G:194:PRO:HG2	2.36	0.60
1:B:176:GLU:HG2	1:B:954:VAL:HG13	1.83	0.60
1:J:1317:SER:HB3	1:J:1336:ASP:HB2	1.82	0.60
1:J:1711:PHE:CE1	1:J:1714:SER:HB3	2.37	0.60
1:D:101:SER:HA	1:E:1429:THR:HG21	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2122:ALA:HB1	1:A:2175:GLU:HG2	1.84	0.60
1:J:1296:THR:OG1	1:J:1297:ASN:N	2.32	0.60
1:A:2448:LEU:HB2	1:A:2472:PHE:HE1	1.66	0.60
1:H:498:LEU:HD21	1:H:597:ILE:HD13	1.84	0.60
1:E:1384:LYS:O	1:E:1410:TYR:HB2	2.01	0.60
1:I:2361:VAL:HG12	1:I:2491:MET:HB2	1.82	0.60
1:D:300:ALA:HB2	1:D:306:GLN:HE21	1.66	0.60
1:H:725:MET:HG2	1:H:755:TYR:HB2	1.83	0.60
1:A:1114:SER:OG	1:A:1120:GLU:HB2	2.01	0.60
1:E:247:LEU:O	1:E:251:LEU:HG	2.02	0.60
1:H:1210:ASN:ND2	1:H:1211:THR:O	2.35	0.60
1:E:814:LEU:HD13	1:E:821:VAL:HG21	1.83	0.60
1:H:947:SER:HB2	1:H:975:ASN:HD22	1.67	0.60
1:A:1296:THR:OG1	1:A:1297:ASN:N	2.35	0.60
1:H:220:GLN:CG	1:H:886:GLN:HG3	2.29	0.60
1:C:1797:LYS:HE3	1:C:1804:GLY:HA3	1.83	0.60
1:I:2330:GLU:HB2	1:J:2459:GLN:HA	1.84	0.60
1:H:1172:LEU:HD11	1:H:1221:ILE:HD11	1.83	0.60
1:E:464:VAL:HG22	1:E:477:LYS:HD2	1.83	0.60
1:A:2100:GLY:HA2	1:A:2196:ARG:HD3	1.84	0.60
1:J:1408:TYR:CG	1:J:1467:LEU:HD12	2.37	0.60
1:D:402:ILE:HG23	1:D:428:VAL:HG13	1.83	0.60
1:G:911:THR:HB	1:G:914:GLN:H	1.66	0.60
1:E:1599:GLN:HB3	1:E:1674:HIS:HE1	1.65	0.60
1:G:2039:THR:O	1:G:2043:ILE:HG12	2.02	0.60
1:B:1741:LEU:HD23	1:B:1742:THR:H	1.67	0.60
1:B:1380:LYS:O	1:B:1383:ASP:HB2	2.01	0.60
1:I:654:MET:HE3	1:I:765:VAL:HG22	1.83	0.60
1:J:1357:LEU:CD1	1:J:1555:PHE:HB3	2.31	0.60
1:F:1459:ASP:HB3	1:F:1462:ASN:HB3	1.84	0.60
1:J:711:VAL:HG12	1:J:759:LEU:HD22	1.84	0.60
1:C:911:THR:HB	1:C:914:GLN:H	1.67	0.60
1:B:331:THR:HB	1:B:427:THR:HB	1.83	0.60
1:F:197:ALA:HB3	1:F:948:THR:HG21	1.82	0.60
1:J:232:HIS:HB2	1:J:903:ILE:HG12	1.82	0.60
1:A:2414:GLN:NE2	1:A:2415:ILE:O	2.35	0.60
1:D:689:LEU:HD22	1:D:712:LEU:HB3	1.82	0.60
1:I:1280:PRO:O	1:I:1284:ASN:ND2	2.33	0.60
1:F:193:ARG:HG2	1:F:250:ILE:HD11	1.84	0.60
1:C:2047:GLN:HE22	1:C:2255:ARG:HD2	1.65	0.59
1:G:2253:TRP:HA	1:H:698:ALA:HB1	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1380:LYS:O	1:E:1383:ASP:HB2	2.01	0.59
1:E:1021:TRP:HA	1:E:1025:ASN:HB2	1.84	0.59
1:A:1561:ASP:OD2	1:A:1563:ARG:NH2	2.35	0.59
1:F:1649:PRO:HB3	1:F:1684:THR:HA	1.83	0.59
1:E:1423:LEU:HD23	1:E:1456:TYR:HB3	1.84	0.59
1:F:90:ILE:HG12	1:G:1452:ILE:HD12	1.84	0.59
1:F:541:GLY:HA2	1:J:892:GLN:NE2	2.17	0.59
1:I:2448:LEU:HB2	1:I:2472:PHE:HE1	1.67	0.59
1:D:1810:GLN:NE2	1:E:1321:ASP:HA	2.17	0.59
1:I:2248:GLN:NE2	1:J:702:LEU:HD12	2.16	0.59
1:I:1959:TYR:HA	1:I:1962:THR:HG22	1.84	0.59
1:D:158:GLU:OE2	1:D:982:LYS:HE2	2.01	0.59
1:J:326:LYS:NZ	1:J:430:GLU:OE2	2.25	0.59
1:H:1326:ASP:OD2	1:H:1564:LYS:N	2.35	0.59
1:J:1710:THR:HG23	1:J:1715:PRO:HA	1.84	0.59
1:E:620:SER:OG	1:E:621:ALA:N	2.34	0.59
1:F:1868:TYR:OH	1:F:1974:LEU:O	2.19	0.59
1:A:553:ARG:NH2	1:A:553:ARG:O	2.32	0.59
1:B:73:GLN:CD	1:B:1952:ILE:HG23	2.23	0.59
1:G:521:THR:HG23	1:G:522:PRO:HD3	1.84	0.59
1:G:2108:ASN:HB3	1:G:2111:GLU:HG3	1.83	0.59
1:C:337:ASN:HB3	1:C:339:TYR:O	2.02	0.59
1:B:2009:LEU:HD22	1:B:2294:PRO:HD3	1.84	0.59
1:E:347:PRO:HA	1:E:353:TYR:HD1	1.67	0.59
1:F:138:LEU:HD21	1:F:145:LEU:HD12	1.84	0.59
1:J:1559:ALA:HB2	1:J:1565:LEU:HD21	1.84	0.59
1:A:458:GLU:CD	1:A:506:ARG:HH22	2.06	0.59
1:A:2087:LYS:HD3	1:B:2204:LYS:HB3	1.84	0.59
1:D:892:GLN:HE22	1:E:541:GLY:CA	2.14	0.59
1:I:1649:PRO:HB3	1:I:1683:ASP:HA	1.85	0.59
1:G:863:THR:OG1	1:G:866:ASN:OD1	2.17	0.59
1:D:197:ALA:HB3	1:D:948:THR:HG21	1.83	0.59
1:F:1760:PHE:CG	1:F:1820:PRO:HG3	2.38	0.59
1:E:1167:LEU:HD22	1:E:1209:TRP:HH2	1.68	0.59
1:D:2108:ASN:HB3	1:D:2111:GLU:HG3	1.84	0.59
1:E:1268:TYR:OH	1:E:1286:TYR:OH	2.09	0.59
1:A:1294:PHE:HA	1:A:1301:ARG:HB2	1.85	0.59
1:E:1225:LYS:HE3	1:E:1252:GLN:HG2	1.84	0.59
1:H:2106:ASN:ND2	1:H:2189:ARG:HB2	2.18	0.59
1:A:1254:ASP:O	1:A:1256:LEU:N	2.34	0.59
1:F:90:ILE:HG12	1:G:1452:ILE:HB	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2375:LEU:HD21	1:A:2387:LEU:HD21	1.84	0.59
1:E:192:PHE:HD2	1:E:198:THR:HG21	1.67	0.59
1:F:1170:LEU:HD12	1:F:1236:CYS:SG	2.42	0.59
1:D:1704:HIS:HD2	1:D:1726:VAL:HG23	1.68	0.59
1:E:1797:LYS:HE3	1:E:1804:GLY:HA3	1.85	0.59
1:I:458:GLU:CD	1:I:506:ARG:HH22	2.05	0.59
1:F:1279:THR:HG23	1:F:1282:GLN:H	1.68	0.59
1:D:1295:ASP:H	1:D:1301:ARG:HG3	1.68	0.59
1:F:1653:SER:N	1:F:1713:LYS:HE3	2.18	0.59
1:I:363:TYR:CZ	1:I:414:LEU:HD23	2.37	0.59
1:F:2460:PHE:HE1	1:J:2512:ARG:HB3	1.67	0.59
1:G:612:VAL:HG11	1:G:614:GLU:HG2	1.84	0.59
1:H:271:ILE:CG2	1:H:952:ARG:HH22	2.16	0.59
1:B:1659:ARG:HB3	1:B:1660:TRP:CZ3	2.38	0.59
1:J:1157:THR:HG21	1:J:1172:LEU:HB3	1.84	0.59
1:D:2145:PHE:O	1:E:2149:GLY:N	2.23	0.59
1:A:218:LEU:HD21	1:A:239:ILE:HG21	1.83	0.59
1:H:1704:HIS:CD2	1:H:1726:VAL:HG23	2.37	0.59
1:I:2360:LEU:HG	1:I:2366:GLY:HA3	1.85	0.59
1:J:866:ASN:ND2	1:J:873:SER:OG	2.36	0.59
1:F:714:TRP:NE1	1:F:794:PRO:HG2	2.17	0.59
1:H:1614:VAL:HG11	1:I:1166:ARG:HB2	1.83	0.59
1:A:2405:SER:OG	1:A:2406:LEU:HA	2.02	0.59
1:G:2046:ARG:NH2	1:G:2251:TYR:OH	2.36	0.59
1:B:2224:LYS:HE2	1:B:2228:LYS:HE3	1.84	0.59
1:J:832:ALA:HB2	1:J:868:PHE:CZ	2.37	0.59
1:B:927:ASN:OD1	1:B:930:GLN:NE2	2.34	0.59
1:D:2039:THR:O	1:D:2043:ILE:HG12	2.01	0.59
1:J:1233:GLY:HA3	1:J:1250:TYR:HB2	1.84	0.59
1:F:612:VAL:HG22	1:F:637:ILE:HD12	1.84	0.59
1:D:892:GLN:NE2	1:E:541:GLY:HA2	2.16	0.59
1:H:1284:ASN:HA	1:H:1287:ARG:HD2	1.84	0.59
1:E:363:TYR:CZ	1:E:414:LEU:HD23	2.38	0.59
1:I:1291:TYR:C	1:I:1293:GLN:H	2.06	0.59
1:D:2364:GLY:HA2	1:D:2377:PHE:HE2	1.66	0.59
1:D:1642:TYR:HE2	1:D:1691:PHE:HB2	1.66	0.59
1:G:784:GLU:HG2	1:G:790:THR:HA	1.85	0.59
1:J:1168:TYR:CD2	1:J:1202:HIS:HB3	2.37	0.59
1:F:1704:HIS:CD2	1:F:1726:VAL:HG23	2.38	0.59
1:G:733:TRP:HE1	1:G:748:THR:HB	1.68	0.59
1:F:1807:VAL:HB	1:F:1812:GLN:OE1	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2068:LEU:HD12	1:H:2227:LEU:HB3	1.85	0.59
1:B:220:GLN:HG2	1:B:886:GLN:HG3	1.84	0.59
1:H:521:THR:HG23	1:H:522:PRO:HD3	1.84	0.59
1:C:1616:ARG:NH2	1:C:1628:GLU:HB2	2.17	0.59
1:E:2281:ARG:HG2	1:E:2289:ALA:HB3	1.85	0.59
1:A:2068:LEU:HD12	1:A:2227:LEU:HB3	1.83	0.59
1:F:1400:ASN:ND2	1:F:1479:THR:HG23	2.14	0.59
1:B:1296:THR:OG1	1:B:1297:ASN:N	2.33	0.59
1:H:2273:CYS:HB3	1:H:2292:ILE:CD1	2.33	0.59
1:F:2487:PRO:O	1:F:2497:GLN:NE2	2.36	0.59
1:A:796:HIS:HD2	1:A:801:LEU:HD11	1.68	0.59
1:C:2348:ASN:O	1:C:2350:PRO:HD3	2.03	0.59
1:J:372:LEU:HD11	1:J:401:ASP:HB3	1.84	0.59
1:A:1649:PRO:HG3	1:A:1684:THR:O	2.03	0.59
1:G:1471:ILE:HB	1:G:1483:VAL:HB	1.85	0.59
1:I:1172:LEU:HD21	1:I:1196:TYR:HB3	1.84	0.59
1:G:2068:LEU:HD12	1:G:2227:LEU:HB3	1.84	0.59
1:I:101:SER:HA	1:J:1429:THR:HG21	1.84	0.59
1:I:1321:ASP:OD2	1:I:1322:TYR:N	2.36	0.59
1:F:76:ASN:ND2	1:F:1892:ASP:O	2.32	0.59
1:E:1385:PHE:HB2	1:E:1408:TYR:O	2.03	0.59
1:D:2431:ALA:HB1	1:D:2484:LEU:HD21	1.85	0.59
1:C:994:GLN:NE2	1:C:1026:LYS:O	2.35	0.59
1:C:1438:ILE:HG22	1:C:1441:ALA:H	1.68	0.59
1:C:1093:VAL:H	1:C:1594:GLN:HE22	1.51	0.59
1:J:1267:LEU:CD2	1:J:1275:SER:HB2	2.32	0.59
1:C:962:LYS:HB2	1:C:1401:LYS:HE2	1.83	0.59
1:F:1805:TYR:OH	1:F:1817:ASN:HB2	2.03	0.59
1:C:1104:ASP:HA	1:C:1598:TRP:CZ2	2.36	0.59
1:A:464:VAL:CG2	1:A:477:LYS:HD2	2.33	0.59
1:D:1172:LEU:HD21	1:D:1196:TYR:HB3	1.83	0.59
1:H:142:ARG:HD2	1:H:971:LEU:O	2.02	0.59
1:F:1636:GLN:O	1:F:1637:LEU:HG	2.03	0.59
1:B:337:ASN:HB3	1:B:339:TYR:O	2.02	0.59
1:I:1254:ASP:C	1:I:1256:LEU:H	2.07	0.59
1:H:197:ALA:HB3	1:H:948:THR:HG21	1.85	0.59
1:A:1876:LEU:HD22	1:A:1970:LEU:HD21	1.85	0.59
1:A:1786:GLU:OE2	1:C:2186:ARG:NH2	2.36	0.59
1:A:1642:TYR:OH	1:A:1756:GLU:HG3	2.02	0.58
1:I:1254:ASP:O	1:I:1256:LEU:N	2.35	0.58
1:G:1239:TYR:HD1	1:G:1246:LEU:HD11	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1413:ASN:OD1	1:F:1414:THR:N	2.36	0.58
1:D:1760:PHE:CG	1:D:1820:PRO:HG3	2.37	0.58
1:I:1220:LYS:NZ	1:I:1277:ASP:OD1	2.27	0.58
1:A:1300:ARG:O	1:A:1585:THR:HG23	2.02	0.58
1:F:1294:PHE:HA	1:F:1301:ARG:HB2	1.84	0.58
1:F:2393:PHE:HB3	1:F:2477:ILE:O	2.03	0.58
1:H:1797:LYS:HE3	1:H:1804:GLY:HA3	1.84	0.58
1:G:620:SER:OG	1:G:621:ALA:N	2.36	0.58
1:H:2281:ARG:HG2	1:H:2289:ALA:HB3	1.85	0.58
1:A:901:ASP:HB3	1:A:904:GLN:HB3	1.85	0.58
1:B:341:MET:SD	1:B:342:ASP:N	2.76	0.58
1:I:1604:ARG:HH12	1:I:1634:GLU:HB3	1.67	0.58
1:C:598:HIS:HB3	1:C:638:THR:HG21	1.85	0.58
1:F:2360:LEU:HD21	1:F:2367:SER:HA	1.83	0.58
1:G:135:VAL:HG21	1:G:958:ALA:HB3	1.85	0.58
1:D:1264:MET:HE3	1:D:1287:ARG:HG3	1.84	0.58
1:H:1711:PHE:CE1	1:H:1714:SER:HB3	2.37	0.58
1:I:1357:LEU:HD23	1:I:1530:TYR:CD2	2.38	0.58
1:F:1351:ILE:HG23	1:F:1537:ILE:HB	1.84	0.58
1:C:211:ILE:HG21	1:C:239:ILE:HD13	1.85	0.58
1:I:947:SER:HB2	1:I:975:ASN:HD22	1.68	0.58
1:E:2353:LEU:HD23	1:E:2506:ASP:HA	1.85	0.58
1:G:641:LEU:HD21	1:G:651:LEU:HD22	1.84	0.58
1:G:1386:ILE:HD12	1:G:1408:TYR:HD1	1.68	0.58
1:H:1634:GLU:N	1:H:1756:GLU:O	2.36	0.58
1:G:1101:ILE:HD11	1:G:1311:GLU:HB2	1.85	0.58
1:H:1153:PRO:HB3	1:H:1171:TRP:HB2	1.85	0.58
1:F:1280:PRO:O	1:F:1284:ASN:ND2	2.36	0.58
1:I:1741:LEU:CD2	1:I:1742:THR:H	2.17	0.58
1:I:1385:PHE:HB2	1:I:1408:TYR:O	2.03	0.58
1:F:1126:VAL:HB	1:F:1141:TRP:CZ3	2.38	0.58
1:G:1254:ASP:C	1:G:1256:LEU:H	2.05	0.58
1:F:1704:HIS:CD2	1:F:1727:ARG:H	2.22	0.58
1:H:288:LEU:HD21	1:H:448:ARG:HD2	1.84	0.58
1:G:1386:ILE:HB	1:G:1408:TYR:HB3	1.85	0.58
1:J:378:LEU:HB3	1:J:395:ILE:HD13	1.84	0.58
1:F:2126:THR:HG23	1:J:1204:ARG:HH21	1.68	0.58
1:A:1261:ASN:H	1:A:1287:ARG:NH1	2.01	0.58
1:G:1503:LYS:HB2	1:G:1552:ASP:HB2	1.85	0.58
1:H:1800:TRP:HB2	1:H:1816:TRP:CD1	2.38	0.58
1:A:1925:ALA:HB1	1:A:1931:PRO:HG3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2244:LYS:O	1:G:2247:ASN:ND2	2.34	0.58
1:H:2257:ARG:O	1:H:2261:ILE:HG22	2.02	0.58
1:J:1653:SER:N	1:J:1713:LYS:HE3	2.06	0.58
1:C:138:LEU:HD11	1:C:996:TYR:CE2	2.38	0.58
1:G:534:GLU:O	1:G:580:ASN:HB2	2.03	0.58
1:C:1139:ASN:HD21	1:C:1829:SER:HB2	1.68	0.58
1:J:930:GLN:HA	1:J:933:THR:HG22	1.85	0.58
1:J:2068:LEU:HD12	1:J:2227:LEU:HB3	1.85	0.58
1:H:1053:GLN:NE2	1:H:1058:ASP:OD1	2.36	0.58
1:I:69:ARG:HD3	1:I:83:LEU:O	2.03	0.58
1:D:1585:THR:HB	1:D:1597:GLN:HE21	1.68	0.58
1:E:557:ILE:HG22	1:E:558:ASP:O	2.03	0.58
1:C:36:VAL:HG21	1:C:40:LEU:HD22	1.85	0.58
1:F:99:ARG:HH11	1:F:1947:LEU:HB3	1.69	0.58
1:B:1291:TYR:O	1:B:1292:GLN:HG2	2.03	0.58
1:C:2448:LEU:HB2	1:C:2472:PHE:HE1	1.67	0.58
1:B:1157:THR:HG21	1:B:1172:LEU:HB3	1.83	0.58
1:D:136:TYR:HB3	1:D:141:ARG:HH21	1.68	0.58
1:B:2046:ARG:HB3	1:B:2251:TYR:HE2	1.69	0.58
1:E:1800:TRP:HB2	1:E:1816:TRP:CD1	2.39	0.58
1:A:1385:PHE:HB2	1:A:1408:TYR:O	2.03	0.58
1:C:1420:GLY:H	1:C:1462:ASN:ND2	2.01	0.58
1:E:947:SER:CB	1:E:975:ASN:HD22	2.16	0.58
1:C:1254:ASP:O	1:C:1256:LEU:N	2.34	0.58
1:B:1630:GLN:HA	1:B:1758:MET:HE1	1.85	0.58
1:J:125:GLU:HB3	1:J:1018:PHE:CE1	2.38	0.58
1:C:1660:TRP:CE2	1:C:1680:GLN:HB3	2.39	0.58
1:E:1063:SER:O	1:E:1066:GLN:NE2	2.33	0.58
1:I:2256:GLY:HA3	1:J:698:ALA:HB2	1.83	0.58
1:I:940:GLU:HG3	1:I:979:ALA:HB2	1.85	0.58
1:E:1114:SER:OG	1:E:1120:GLU:HB2	2.04	0.58
1:A:2430:GLN:N	1:A:2497:GLN:OE1	2.34	0.58
1:I:15:GLN:HB3	1:I:16:CYS:HB2	1.85	0.58
1:B:733:TRP:NE1	1:B:748:THR:HB	2.18	0.58
1:E:1596:MET:HB2	1:E:1605:LEU:HD11	1.84	0.58
1:H:1497:LYS:HB3	1:H:1558:PHE:HB2	1.85	0.58
1:B:1101:ILE:HD11	1:B:1311:GLU:HB2	1.86	0.58
1:B:1295:ASP:N	1:B:1301:ARG:HG3	2.19	0.58
1:C:193:ARG:NH2	1:C:253:GLU:OE2	2.36	0.58
1:F:844:ASN:HB2	1:G:564:ARG:HH12	1.67	0.58
1:H:42:TRP:CH2	1:H:1321:ASP:HB2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1050:ARG:HH22	1:I:1057:MET:HE2	1.69	0.58
1:B:2364:GLY:HA2	1:B:2377:PHE:HE2	1.69	0.58
1:D:2077:GLU:OE1	1:E:2216:ARG:NH1	2.37	0.58
1:J:1122:TYR:HE2	1:J:1146:LYS:HG2	1.69	0.58
1:A:1093:VAL:H	1:A:1594:GLN:HE22	1.51	0.58
1:I:1179:LYS:HE3	1:I:1180:GLN:HG2	1.86	0.58
1:B:557:ILE:HD11	1:B:592:LYS:HE3	1.84	0.58
1:D:733:TRP:HE1	1:D:748:THR:HB	1.68	0.58
1:D:1741:LEU:CD2	1:D:1742:THR:H	2.16	0.58
1:A:1453:GLY:H	1:E:90:ILE:HD11	1.69	0.58
1:E:994:GLN:NE2	1:E:1026:LYS:O	2.37	0.58
1:C:488:TYR:CZ	1:C:597:ILE:HD12	2.38	0.58
1:C:1604:ARG:NH1	1:C:1634:GLU:HB3	2.18	0.58
1:G:276:LEU:HA	1:G:281:TYR:HD2	1.69	0.58
1:H:1250:TYR:CE2	1:H:1294:PHE:HB3	2.38	0.58
1:C:1357:LEU:HD12	1:C:1555:PHE:HD2	1.69	0.58
1:J:280:GLU:HG2	1:J:1399:SER:HB2	1.85	0.58
1:G:1279:THR:HB	1:G:1282:GLN:HB2	1.86	0.58
1:I:2128:VAL:HG22	1:J:2165:MET:HB3	1.86	0.58
1:I:601:THR:HG23	1:I:604:GLU:H	1.67	0.58
1:J:1141:TRP:CD1	1:J:1763:ALA:HA	2.39	0.58
1:I:2039:THR:O	1:I:2043:ILE:HG12	2.03	0.58
1:C:341:MET:SD	1:C:342:ASP:N	2.77	0.58
1:I:1188:TYR:HD1	1:J:1188:TYR:OH	1.86	0.58
1:G:1760:PHE:CG	1:G:1820:PRO:HG3	2.39	0.58
1:F:1061:LEU:HA	1:F:1064:VAL:HG12	1.86	0.58
1:I:67:LEU:O	1:I:103:TYR:OH	2.22	0.58
1:B:2405:SER:OG	1:B:2406:LEU:HA	2.03	0.58
1:E:2257:ARG:O	1:E:2261:ILE:HG22	2.03	0.58
1:A:1295:ASP:N	1:A:1301:ARG:HG3	2.19	0.58
1:E:2106:ASN:ND2	1:E:2189:ARG:HD2	2.19	0.58
1:E:1172:LEU:HD21	1:E:1196:TYR:HB3	1.86	0.58
1:G:2241:LEU:HD13	1:G:2244:LYS:HD3	1.86	0.58
1:B:1513:ALA:HA	1:B:1532:PHE:CE2	2.39	0.58
1:E:181:ASN:OD1	1:E:182:TYR:N	2.37	0.58
1:G:210:VAL:HG11	1:G:922:LEU:HB3	1.86	0.58
1:C:1640:GLY:HA2	1:C:1691:PHE:HE1	1.69	0.58
1:F:195:SER:O	1:F:198:THR:HG22	2.04	0.58
1:B:1746:SER:HB3	1:C:1522:SER:OG	2.04	0.58
1:H:260:ALA:HB1	1:H:434:TYR:HB2	1.86	0.58
1:I:622:ILE:HG21	1:I:627:LEU:HD23	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2442:ALA:HB3	1:C:2445:CYS:HB2	1.85	0.58
1:A:417:GLY:N	1:A:418:SER:HA	2.18	0.58
1:D:745:ALA:HB3	1:D:749:GLN:OE1	2.03	0.58
1:I:1091:LEU:HD21	1:I:1122:TYR:HD1	1.69	0.57
1:G:761:GLN:OE1	1:G:796:HIS:HE1	1.87	0.57
1:J:994:GLN:NE2	1:J:1026:LYS:O	2.37	0.57
1:B:42:TRP:CH2	1:B:1321:ASP:HB2	2.39	0.57
1:G:1295:ASP:N	1:G:1301:ARG:HG3	2.19	0.57
1:D:398:ASN:O	1:D:402:ILE:HG12	2.04	0.57
1:B:219:GLU:O	1:B:223:ALA:N	2.37	0.57
1:G:1384:LYS:O	1:G:1410:TYR:HB2	2.04	0.57
1:G:337:ASN:HB3	1:G:339:TYR:O	2.04	0.57
1:D:1802:PRO:HB2	1:E:1002:GLU:HG2	1.86	0.57
1:J:570:ASP:HA	1:J:618:ASN:HD22	1.68	0.57
1:E:2431:ALA:HB3	1:E:2450:VAL:HG13	1.86	0.57
1:B:450:THR:HG21	1:B:478:VAL:HG11	1.86	0.57
1:I:1091:LEU:HD21	1:I:1122:TYR:CD1	2.39	0.57
1:C:1092:LYS:HE3	1:C:1588:HIS:CD2	2.40	0.57
1:C:612:VAL:HG22	1:C:637:ILE:HD12	1.85	0.57
1:I:2393:PHE:HB3	1:I:2477:ILE:O	2.04	0.57
1:G:1898:LEU:HD12	1:H:300:ALA:H	1.69	0.57
1:E:130:HIS:ND1	1:E:996:TYR:OH	2.34	0.57
1:F:814:LEU:HD13	1:F:821:VAL:HG21	1.86	0.57
1:F:2027:ARG:NH2	1:F:2318:GLU:OE1	2.37	0.57
1:F:1642:TYR:OH	1:F:1756:GLU:HG3	2.03	0.57
1:D:1108:THR:OG1	1:D:1128:HIS:NE2	2.29	0.57
1:H:2463:ASP:O	1:H:2466:ASP:HB2	2.04	0.57
1:H:771:ILE:HD11	1:H:804:LEU:HB3	1.86	0.57
1:A:1188:TYR:HD1	1:B:1188:TYR:OH	1.87	0.57
1:F:135:VAL:HG21	1:F:958:ALA:HB3	1.85	0.57
1:B:2257:ARG:O	1:B:2261:ILE:HG22	2.04	0.57
1:I:841:LEU:HD12	1:I:846:LEU:HD11	1.86	0.57
1:D:1737:PRO:HA	1:D:1738:LYS:C	2.25	0.57
1:A:42:TRP:HD1	1:A:42:TRP:O	1.88	0.57
1:B:2433:LEU:HB2	1:B:2448:LEU:HB3	1.87	0.57
1:C:1651:ASN:HB3	1:C:1652:LEU:HA	1.85	0.57
1:J:218:LEU:HD21	1:J:239:ILE:HG21	1.86	0.57
1:F:93:ASN:HD22	1:G:1452:ILE:HD13	1.70	0.57
1:A:1261:ASN:HA	1:A:1287:ARG:NH2	2.19	0.57
1:I:604:GLU:HB3	1:I:648:VAL:HG21	1.86	0.57
1:F:1614:VAL:HG11	1:G:1166:ARG:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2187:ARG:HA	1:H:2190:GLN:OE1	2.04	0.57
1:G:481:THR:HG22	1:G:485:MET:HE2	1.86	0.57
1:C:1447:ASN:ND2	1:C:1456:TYR:O	2.37	0.57
1:G:1141:TRP:CD1	1:G:1763:ALA:HA	2.39	0.57
1:C:380:ARG:NH1	1:C:382:GLU:OE1	2.37	0.57
1:D:372:LEU:HD12	1:D:397:LEU:HD22	1.86	0.57
1:C:1666:LYS:HD3	1:C:1706:LYS:HD3	1.87	0.57
1:A:1810:GLN:NE2	1:B:1321:ASP:HA	2.19	0.57
1:I:994:GLN:NE2	1:I:1026:LYS:O	2.37	0.57
1:D:1386:ILE:HG13	1:D:1410:TYR:HE1	1.69	0.57
1:C:464:VAL:CG2	1:C:477:LYS:HD2	2.34	0.57
1:B:1639:LYS:HB2	1:B:1694:LEU:O	2.03	0.57
1:J:1310:TYR:CE2	1:J:1349:LEU:HD22	2.40	0.57
1:D:1126:VAL:HB	1:D:1141:TRP:CZ3	2.39	0.57
1:I:2257:ARG:O	1:I:2261:ILE:HG22	2.03	0.57
1:F:471:ASN:OD1	1:F:472:THR:N	2.38	0.57
1:F:2218:GLU:OE2	1:J:2073:LYS:NZ	2.26	0.57
1:G:2430:GLN:N	1:G:2497:GLN:OE1	2.33	0.57
1:H:1737:PRO:HA	1:H:1738:LYS:C	2.25	0.57
1:H:553:ARG:NH2	1:H:556:ASN:OD1	2.36	0.57
1:C:1720:TRP:HE1	1:C:1739:SER:H	1.51	0.57
1:D:1660:TRP:NE1	1:D:1680:GLN:HB3	2.20	0.57
1:I:1139:ASN:HD21	1:I:1829:SER:H	1.51	0.57
1:I:398:ASN:O	1:I:402:ILE:HG12	2.04	0.57
1:D:1704:HIS:CD2	1:D:1726:VAL:HG23	2.39	0.57
1:J:670:LEU:HB2	1:J:699:THR:HG21	1.87	0.57
1:D:2338:ALA:HB2	1:D:2506:ASP:HB3	1.86	0.57
1:H:1257:ASP:OD1	1:H:1258:SER:N	2.29	0.57
1:G:1447:ASN:ND2	1:G:1455:ASP:OD1	2.36	0.57
1:G:2087:LYS:HD3	1:H:2204:LYS:HB3	1.86	0.57
1:B:940:GLU:HG3	1:B:979:ALA:HB2	1.86	0.57
1:G:1642:TYR:HE2	1:G:1691:PHE:HB2	1.70	0.57
1:G:417:GLY:N	1:G:418:SER:HA	2.19	0.57
1:C:2433:LEU:HB2	1:C:2448:LEU:HB3	1.87	0.57
1:D:1295:ASP:N	1:D:1301:ARG:HG3	2.20	0.57
1:I:1357:LEU:HD23	1:I:1530:TYR:HD2	1.69	0.57
1:A:195:SER:O	1:A:198:THR:HG22	2.03	0.57
1:G:2393:PHE:HB3	1:G:2477:ILE:O	2.05	0.57
1:H:2375:LEU:HD21	1:H:2387:LEU:HD21	1.86	0.57
1:F:714:TRP:CD1	1:F:794:PRO:HG2	2.39	0.57
1:A:994:GLN:NE2	1:A:1026:LYS:O	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2009:LEU:HD22	1:G:2294:PRO:HD3	1.87	0.57
1:A:1802:PRO:HB2	1:B:1002:GLU:HG2	1.85	0.57
1:F:1130:LYS:HB2	1:F:1140:ALA:HB2	1.86	0.57
1:D:1124:ARG:HD2	1:D:1144:TRP:CZ2	2.39	0.57
1:D:1721:TRP:HA	1:D:1740:ILE:HB	1.85	0.57
1:C:15:GLN:HB3	1:C:16:CYS:HB2	1.85	0.57
1:J:348:PHE:HE1	1:J:354:ARG:HH21	1.51	0.57
1:G:778:LEU:HA	1:G:781:THR:HG22	1.86	0.57
1:I:930:GLN:HA	1:I:933:THR:HG22	1.85	0.57
1:A:1413:ASN:OD1	1:A:1414:THR:N	2.37	0.57
1:E:1280:PRO:O	1:E:1284:ASN:ND2	2.33	0.57
1:B:1386:ILE:HG13	1:B:1410:TYR:HE1	1.69	0.57
1:I:1284:ASN:HA	1:I:1287:ARG:HD2	1.87	0.57
1:J:2419:LEU:HD12	1:J:2429:VAL:HG11	1.85	0.57
1:D:497:ILE:HD13	1:D:589:TYR:HD2	1.69	0.57
1:C:1614:VAL:HG11	1:D:1166:ARG:HB2	1.87	0.57
1:B:1093:VAL:H	1:B:1594:GLN:HE22	1.52	0.57
1:A:1475:ASP:HB2	1:A:1479:THR:HB	1.85	0.57
1:E:1642:TYR:OH	1:E:1756:GLU:HG3	2.04	0.57
1:D:138:LEU:HD11	1:D:993:ILE:HG12	1.87	0.57
1:D:1213:ILE:HD13	1:D:1273:MET:HG3	1.87	0.57
1:J:2487:PRO:O	1:J:2497:GLN:NE2	2.38	0.57
1:A:1641:PHE:HD1	1:A:1692:ILE:HB	1.70	0.57
1:F:2463:ASP:O	1:F:2466:ASP:HB2	2.05	0.57
1:C:2497:GLN:O	1:C:2501:LEU:HG	2.05	0.57
1:E:1213:ILE:HG21	1:E:1273:MET:HG3	1.86	0.57
1:G:1122:TYR:CE2	1:G:1146:LYS:HG2	2.40	0.57
1:H:2448:LEU:HB2	1:H:2472:PHE:HE1	1.67	0.57
1:J:520:ASN:ND2	1:J:528:TYR:H	2.01	0.57
1:E:2364:GLY:HA2	1:E:2377:PHE:CE2	2.39	0.57
1:H:2018:ARG:NH1	1:H:2473:GLU:OE2	2.38	0.57
1:B:1254:ASP:O	1:B:1256:LEU:N	2.35	0.57
1:B:1467:LEU:HD22	1:B:1471:ILE:HD11	1.85	0.57
1:F:2257:ARG:O	1:F:2261:ILE:HG22	2.05	0.57
1:G:1640:GLY:HA2	1:G:1691:PHE:HE1	1.69	0.57
1:B:965:ASP:OD2	1:B:976:GLN:NE2	2.38	0.57
1:E:1336:ASP:O	1:E:1338:PRO:HD3	2.03	0.57
1:D:69:ARG:HD3	1:D:83:LEU:O	2.05	0.57
1:F:1737:PRO:HA	1:F:1738:LYS:C	2.25	0.57
1:I:1090:ASN:OD1	1:I:1611:ARG:NH1	2.38	0.57
1:E:1438:ILE:HB	1:E:1441:ALA:HB3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2106:ASN:OD1	1:C:2107:ILE:HG13	2.04	0.57
1:D:1710:THR:OG1	1:D:1715:PRO:HA	2.05	0.57
1:C:1821:LEU:CD2	1:C:1845:PRO:HB3	2.34	0.57
1:C:714:TRP:NE1	1:C:794:PRO:HG2	2.19	0.57
1:J:347:PRO:HA	1:J:353:TYR:CD1	2.40	0.57
1:G:2018:ARG:NH1	1:G:2473:GLU:OE2	2.37	0.57
1:F:143:PRO:HA	1:F:146:LYS:HE2	1.87	0.57
1:B:1741:LEU:O	1:B:1742:THR:HG22	2.05	0.57
1:E:1378:TYR:HB3	1:E:1421:ARG:NH1	2.19	0.57
1:G:1704:HIS:HD2	1:G:1726:VAL:HG23	1.70	0.57
1:G:783:PRO:HB3	1:G:794:PRO:HB3	1.86	0.57
1:F:1959:TYR:HA	1:F:1962:THR:HG22	1.86	0.57
1:H:1647:ILE:HB	1:H:1686:ILE:HB	1.87	0.57
1:F:662:THR:N	1:F:753:VAL:HG11	2.14	0.57
1:A:142:ARG:HD2	1:A:971:LEU:O	2.05	0.57
1:H:1805:TYR:OH	1:H:1817:ASN:HB2	2.05	0.57
1:G:1386:ILE:HG13	1:G:1410:TYR:HE1	1.70	0.57
1:G:1061:LEU:HA	1:G:1064:VAL:HG12	1.87	0.57
1:E:911:THR:HB	1:E:914:GLN:H	1.68	0.57
1:A:995:LEU:HD21	1:E:1881:MET:HB2	1.87	0.57
1:J:2362:SER:HA	1:J:2491:MET:HE2	1.86	0.57
1:G:1007:ASN:OD1	1:G:1008:ALA:N	2.38	0.57
1:C:2006:GLY:HA3	1:C:2008:LYS:HE2	1.87	0.57
1:C:79:HIS:NE2	1:D:1002:GLU:O	2.38	0.57
1:F:565:LEU:HB2	1:F:602:ILE:HD13	1.87	0.57
1:D:1459:ASP:HB3	1:D:1462:ASN:HB3	1.87	0.57
1:J:1007:ASN:OD1	1:J:1008:ALA:N	2.38	0.57
1:A:194:PRO:O	1:A:285:TYR:OH	2.12	0.56
1:F:2261:ILE:HD12	1:J:2309:THR:HA	1.86	0.56
1:B:220:GLN:HA	1:B:223:ALA:HB3	1.87	0.56
1:I:2422:LEU:H	1:I:2503:THR:HG21	1.69	0.56
1:D:1114:SER:OG	1:D:1120:GLU:HB2	2.04	0.56
1:J:300:ALA:HB2	1:J:306:GLN:HE21	1.69	0.56
1:I:1061:LEU:HD22	1:I:1778:LEU:HD11	1.87	0.56
1:D:1130:LYS:HB2	1:D:1140:ALA:HB2	1.86	0.56
1:J:1514:ASP:OD2	1:J:1515:LYS:N	2.38	0.56
1:H:503:ILE:HG13	1:H:586:SER:OG	2.05	0.56
1:F:1066:GLN:HG2	1:H:2178:LYS:NZ	2.20	0.56
1:I:102:GLN:HE22	1:I:1901:THR:H	1.52	0.56
1:H:1641:PHE:HB3	1:H:1692:ILE:O	2.05	0.56
1:A:42:TRP:CH2	1:A:1320:LYS:HB3	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1268:TYR:CE1	1:I:1278:MET:HG3	2.40	0.56
1:B:783:PRO:HB3	1:B:794:PRO:HB3	1.86	0.56
1:J:771:ILE:HD11	1:J:804:LEU:HD13	1.87	0.56
1:E:661:LYS:HD3	1:E:750:GLU:HB3	1.87	0.56
1:J:964:ARG:NH1	1:J:976:GLN:HG2	2.20	0.56
1:C:2273:CYS:HB3	1:C:2292:ILE:HD13	1.87	0.56
1:E:2422:LEU:HB2	1:E:2503:THR:HG21	1.86	0.56
1:F:1398:SER:HB3	1:F:1480:ALA:HB3	1.87	0.56
1:H:462:ARG:HG3	1:H:467:GLN:HE21	1.69	0.56
1:B:2039:THR:O	1:B:2043:ILE:HG12	2.05	0.56
1:H:844:ASN:H	1:I:564:ARG:HH22	1.51	0.56
1:F:521:THR:HG23	1:F:522:PRO:CD	2.31	0.56
1:D:1351:ILE:HG23	1:D:1537:ILE:HB	1.87	0.56
1:A:564:ARG:NH2	1:E:844:ASN:H	2.00	0.56
1:D:2398:ILE:HB	1:D:2477:ILE:HG21	1.87	0.56
1:H:1279:THR:HG23	1:H:1282:GLN:H	1.70	0.56
1:B:1260:LYS:HA	1:B:1287:ARG:HH12	1.69	0.56
1:J:1741:LEU:O	1:J:1742:THR:HG22	2.06	0.56
1:B:2353:LEU:HD23	1:B:2506:ASP:HA	1.87	0.56
1:A:2106:ASN:HD21	1:A:2189:ARG:HB2	1.68	0.56
1:H:1868:TYR:O	1:H:1871:LEU:HD22	2.05	0.56
1:D:1807:VAL:HB	1:D:1812:GLN:OE1	2.04	0.56
1:A:1642:TYR:CE2	1:A:1691:PHE:HB2	2.40	0.56
1:I:1327:TYR:CE2	1:I:1487:VAL:HG11	2.40	0.56
1:F:1514:ASP:OD2	1:F:1515:LYS:N	2.39	0.56
1:I:458:GLU:OE1	1:I:506:ARG:NH2	2.36	0.56
1:E:1797:LYS:HE3	1:E:1801:SER:HB2	1.86	0.56
1:A:1438:ILE:HB	1:A:1441:ALA:HB3	1.87	0.56
1:B:2463:ASP:O	1:B:2466:ASP:HB2	2.05	0.56
1:E:2244:LYS:HE2	1:E:2246:SER:HB3	1.87	0.56
1:C:1445:LEU:HD11	1:C:1467:LEU:HD11	1.87	0.56
1:D:2118:ARG:NH2	1:E:2177:ASP:OD1	2.39	0.56
1:E:604:GLU:HB3	1:E:648:VAL:HG21	1.88	0.56
1:C:667:ILE:HD11	1:C:757:GLN:HG3	1.87	0.56
1:D:2501:LEU:HA	1:D:2504:LEU:HD12	1.87	0.56
1:H:1224:LEU:HD11	1:H:1249:PHE:HB3	1.86	0.56
1:D:281:TYR:OH	1:D:952:ARG:NH1	2.38	0.56
1:H:110:SER:HB3	1:H:1902:TRP:CG	2.40	0.56
1:B:29:PHE:HA	1:B:49:TYR:CE1	2.40	0.56
1:H:930:GLN:HA	1:H:933:THR:HG22	1.87	0.56
1:I:641:LEU:HD21	1:I:651:LEU:HD22	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:901:ASP:HB3	1:I:904:GLN:HB3	1.87	0.56
1:A:1204:ARG:NH2	1:B:2126:THR:HG23	2.20	0.56
1:E:2360:LEU:HD22	1:E:2375:LEU:HD23	1.86	0.56
1:F:553:ARG:NH2	1:F:553:ARG:O	2.35	0.56
1:A:1409:GLN:OE1	1:A:1421:ARG:NH1	2.37	0.56
1:B:146:LYS:O	1:B:1908:ASP:HB2	2.05	0.56
1:E:276:LEU:HA	1:E:281:TYR:CD2	2.40	0.56
1:I:1604:ARG:NE	1:I:1637:LEU:HD11	2.21	0.56
1:I:79:HIS:ND1	1:I:1802:PRO:HB3	2.20	0.56
1:H:231:MET:CG	1:H:898:VAL:HG23	2.35	0.56
1:B:1236:CYS:H	1:B:1303:ASN:HD22	1.53	0.56
1:F:2281:ARG:HG2	1:F:2289:ALA:HB3	1.86	0.56
1:E:1321:ASP:HB3	1:E:1569:SER:HB3	1.87	0.56
1:D:1279:THR:OG1	1:D:1280:PRO:HD2	2.05	0.56
1:A:1607:THR:HG22	1:A:1764:ASN:HD22	1.70	0.56
1:F:609:LEU:HD21	1:F:634:LEU:HD11	1.87	0.56
1:F:1367:GLN:NE2	1:F:1391:LEU:HD12	2.21	0.56
1:J:1300:ARG:O	1:J:1585:THR:HG23	2.05	0.56
1:G:1604:ARG:HG3	1:G:1637:LEU:HD21	1.86	0.56
1:A:455:THR:HG21	1:A:508:TYR:CD2	2.40	0.56
1:F:2068:LEU:HD12	1:F:2227:LEU:HB3	1.88	0.56
1:D:81:ALA:H	1:D:1816:TRP:HH2	1.54	0.56
1:F:2226:SER:O	1:F:2230:GLN:HG3	2.05	0.56
1:I:1807:VAL:HB	1:I:1812:GLN:OE1	2.06	0.56
1:D:604:GLU:HB3	1:D:648:VAL:HG21	1.88	0.56
1:B:1139:ASN:ND2	1:B:1829:SER:O	2.37	0.56
1:H:90:ILE:HG12	1:I:1452:ILE:HB	1.87	0.56
1:I:1475:ASP:HB2	1:I:1479:THR:H	1.71	0.56
1:G:1777:MET:HE1	1:G:1852:THR:HG23	1.87	0.56
1:H:195:SER:O	1:H:198:THR:HG22	2.05	0.56
1:A:698:ALA:HB2	1:E:2256:GLY:HA3	1.87	0.56
1:E:2329:LEU:HB2	1:E:2515:ILE:HB	1.87	0.56
1:G:962:LYS:HB2	1:G:1401:LYS:HE2	1.86	0.56
1:I:1061:LEU:HA	1:I:1064:VAL:HG12	1.88	0.56
1:B:1163:TYR:CD2	1:B:1245:LEU:HB3	2.40	0.56
1:F:2046:ARG:NH2	1:F:2251:TYR:OH	2.38	0.56
1:E:71:ASN:ND2	1:E:1040:TYR:OH	2.39	0.56
1:I:1719:THR:HG23	1:I:1721:TRP:HB2	1.87	0.56
1:E:142:ARG:HD2	1:E:971:LEU:O	2.05	0.56
1:F:778:LEU:HD21	1:F:785:MET:SD	2.46	0.56
1:B:1790:ASP:OD1	1:B:1863:ARG:NH2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:210:VAL:HG11	1:J:922:LEU:HB3	1.87	0.56
1:D:832:ALA:C	1:D:834:GLN:H	2.07	0.56
1:G:90:ILE:HA	1:H:1452:ILE:HD12	1.87	0.56
1:D:2448:LEU:HB2	1:D:2472:PHE:HE1	1.70	0.56
1:D:146:LYS:O	1:D:1908:ASP:HB2	2.06	0.56
1:A:1498:VAL:HG11	1:A:1530:TYR:CE2	2.40	0.56
1:C:927:ASN:OD1	1:C:930:GLN:NE2	2.29	0.56
1:G:195:SER:O	1:G:198:THR:HG22	2.06	0.56
1:E:402:ILE:HD12	1:E:428:VAL:HG11	1.88	0.56
1:A:1071:ALA:O	1:A:1075:GLU:HG3	2.06	0.56
1:I:984:THR:HG23	1:I:987:ALA:H	1.70	0.56
1:C:446:LEU:HD12	1:C:470:ILE:HD13	1.86	0.56
1:C:1268:TYR:CE1	1:C:1278:MET:HG3	2.41	0.56
1:E:1090:ASN:HD21	1:E:1610:ALA:HB3	1.71	0.56
1:H:2009:LEU:HD13	1:H:2294:PRO:HB3	1.86	0.56
1:H:1650:TYR:O	1:H:1651:ASN:HB2	2.06	0.56
1:C:42:TRP:HH2	1:C:1321:ASP:HB2	1.71	0.56
1:G:2393:PHE:HE1	1:G:2482:LEU:HB2	1.71	0.56
1:A:299:LYS:HE3	1:A:307:GLU:HB2	1.88	0.56
1:A:1090:ASN:OD1	1:A:1611:ARG:NH1	2.39	0.56
1:B:1597:GLN:HG2	1:B:1602:ARG:HG2	1.86	0.56
1:C:1602:ARG:HD2	1:C:1693:PRO:HB3	1.86	0.56
1:E:866:ASN:ND2	1:E:873:SER:OG	2.39	0.56
1:B:1328:TYR:HB2	1:B:1368:LYS:HG2	1.87	0.56
1:J:2008:LYS:HE3	1:J:2297:TRP:HB3	1.88	0.56
1:H:2226:SER:O	1:H:2230:GLN:HG3	2.06	0.56
1:D:1561:ASP:OD2	1:D:1563:ARG:NH2	2.38	0.56
1:G:1514:ASP:OD2	1:G:1515:LYS:N	2.39	0.56
1:I:1258:SER:HA	1:I:1291:TYR:HE1	1.71	0.56
1:D:1279:THR:HG23	1:D:1282:GLN:H	1.69	0.56
1:D:1300:ARG:O	1:D:1585:THR:HG23	2.06	0.56
1:F:778:LEU:HA	1:F:781:THR:HG22	1.88	0.56
1:B:1641:PHE:HD1	1:B:1692:ILE:HB	1.71	0.56
1:G:1836:ASP:O	1:G:1840:VAL:HG23	2.05	0.56
1:B:814:LEU:HD13	1:B:821:VAL:HG21	1.87	0.56
1:G:2338:ALA:HB2	1:G:2506:ASP:HB3	1.88	0.56
1:D:620:SER:OG	1:D:621:ALA:N	2.38	0.56
1:G:1321:ASP:OD2	1:G:1322:TYR:N	2.38	0.56
1:J:41:SER:OG	1:J:41:SER:O	2.23	0.56
1:C:2046:ARG:NH2	1:C:2251:TYR:OH	2.39	0.56
1:F:1797:LYS:HE3	1:F:1804:GLY:HA3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:41:SER:HB3	1:B:44:GLU:OE1	2.05	0.56
1:D:1805:TYR:OH	1:D:1817:ASN:HB2	2.05	0.56
1:F:1892:ASP:OD2	1:G:1401:LYS:NZ	2.25	0.56
1:I:333:GLU:HG2	1:I:506:ARG:HG3	1.87	0.56
1:I:772:ASN:HD22	1:I:822:LEU:HD12	1.70	0.56
1:G:1706:LYS:HZ3	1:G:1718:GLY:HA2	1.71	0.56
1:G:1491:THR:HG21	1:G:1525:PHE:HZ	1.70	0.56
1:G:1518:SER:HB3	1:G:1533:ASN:HD21	1.70	0.56
1:J:1384:LYS:O	1:J:1410:TYR:HB2	2.06	0.56
1:I:161:THR:C	1:I:163:SER:H	2.08	0.56
1:C:2412:ILE:HD12	1:C:2475:ILE:HB	1.88	0.56
1:J:371:LYS:HB3	1:J:373:ASN:O	2.06	0.56
1:C:2040:LEU:HB2	1:C:2258:LEU:HD22	1.88	0.56
1:B:707:VAL:HG23	1:B:773:GLU:OE1	2.07	0.56
1:C:844:ASN:HB2	1:D:564:ARG:HH12	1.68	0.56
1:F:1400:ASN:ND2	1:F:1402:LEU:HB2	2.21	0.55
1:D:1225:LYS:HE3	1:D:1252:GLN:HG2	1.87	0.55
1:F:194:PRO:O	1:F:285:TYR:OH	2.18	0.55
1:C:1268:TYR:CD1	1:C:1278:MET:HG3	2.40	0.55
1:H:778:LEU:HD21	1:H:785:MET:SD	2.46	0.55
1:J:2122:ALA:HB1	1:J:2175:GLU:HG2	1.88	0.55
1:J:1254:ASP:O	1:J:1256:LEU:N	2.39	0.55
1:A:1205:TYR:CD1	1:E:1082:LEU:HB3	2.41	0.55
1:G:2348:ASN:O	1:G:2350:PRO:HD3	2.06	0.55
1:A:37:SER:O	1:A:1503:LYS:NZ	2.39	0.55
1:D:2033:LEU:CD1	1:D:2266:TYR:HA	2.36	0.55
1:F:2448:LEU:HG	1:F:2458:GLY:HA3	1.87	0.55
1:C:962:LYS:NZ	1:C:1398:SER:O	2.39	0.55
1:J:1649:PRO:CB	1:J:1683:ASP:HA	2.36	0.55
1:B:1659:ARG:HB3	1:B:1660:TRP:CE3	2.42	0.55
1:H:1333:TYR:HD2	1:H:1358:ARG:HD3	1.72	0.55
1:B:2108:ASN:HB3	1:B:2111:GLU:HG3	1.87	0.55
1:I:1221:ILE:HD12	1:I:1222:SER:N	2.21	0.55
1:J:477:LYS:HD3	1:J:499:CYS:SG	2.46	0.55
1:G:1353:ILE:HG22	1:G:1355:PRO:HD3	1.87	0.55
1:G:901:ASP:HB3	1:G:904:GLN:HB3	1.87	0.55
1:D:1083:THR:OG1	1:E:1205:TYR:HB2	2.07	0.55
1:H:1807:VAL:HB	1:H:1812:GLN:OE1	2.06	0.55
1:B:1220:LYS:HG2	1:B:1265:GLN:HB3	1.87	0.55
1:J:601:THR:HG23	1:J:604:GLU:H	1.70	0.55
1:D:153:GLN:O	1:D:157:ILE:HG12	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2147:PHE:CD2	1:E:2147:PHE:HE2	2.25	0.55
1:J:1250:TYR:CD2	1:J:1294:PHE:HD2	2.24	0.55
1:C:2448:LEU:HG	1:C:2458:GLY:HA3	1.88	0.55
1:D:1385:PHE:HB2	1:D:1408:TYR:O	2.05	0.55
1:H:1351:ILE:HG23	1:H:1537:ILE:HB	1.88	0.55
1:G:1650:TYR:CG	1:G:1651:ASN:N	2.74	0.55
1:F:192:PHE:HD2	1:F:198:THR:HG21	1.72	0.55
1:D:1141:TRP:CD1	1:D:1763:ALA:HA	2.41	0.55
1:A:2099:TYR:CD2	1:A:2195:GLN:HB3	2.41	0.55
1:A:1511:PHE:CD2	1:A:1535:LEU:HD22	2.41	0.55
1:I:146:LYS:O	1:I:1908:ASP:HB2	2.06	0.55
1:G:1451:ALA:HB3	1:G:1454:ASP:O	2.06	0.55
1:C:1505:GLY:H	1:C:1542:LEU:HB2	1.70	0.55
1:B:90:ILE:HA	1:C:1452:ILE:HD12	1.88	0.55
1:I:33:ARG:CZ	1:I:37:SER:HA	2.35	0.55
1:G:1121:TYR:HB2	1:G:1147:ILE:HD11	1.87	0.55
1:G:1111:ILE:HD11	1:G:1160:PRO:HB3	1.87	0.55
1:C:1333:TYR:CD2	1:C:1358:ARG:HD3	2.38	0.55
1:A:2433:LEU:HD22	1:A:2482:LEU:HD21	1.88	0.55
1:H:2095:ARG:NH1	1:H:2202:GLU:OE2	2.31	0.55
1:C:1321:ASP:OD2	1:C:1322:TYR:N	2.39	0.55
1:J:79:HIS:ND1	1:J:1802:PRO:HB3	2.21	0.55
1:I:2512:ARG:HB3	1:J:2460:PHE:HE1	1.70	0.55
1:A:477:LYS:HD3	1:A:499:CYS:SG	2.46	0.55
1:H:947:SER:CB	1:H:975:ASN:HD22	2.19	0.55
1:J:1122:TYR:CE2	1:J:1146:LYS:HG2	2.41	0.55
1:B:1236:CYS:H	1:B:1303:ASN:ND2	2.04	0.55
1:E:124:ARG:HB2	1:E:1911:ALA:HB1	1.88	0.55
1:H:1514:ASP:OD2	1:H:1515:LYS:N	2.40	0.55
1:G:181:ASN:OD1	1:G:182:TYR:N	2.38	0.55
1:G:1358:ARG:HH21	1:G:1360:ILE:HD11	1.71	0.55
1:G:453:SER:HB3	1:G:456:ILE:HG12	1.88	0.55
1:I:337:ASN:HB3	1:I:339:TYR:O	2.06	0.55
1:B:1805:TYR:OH	1:B:1817:ASN:HB2	2.06	0.55
1:J:455:THR:HG21	1:J:508:TYR:CD2	2.41	0.55
1:D:1353:ILE:HG22	1:D:1355:PRO:HD3	1.88	0.55
1:J:2412:ILE:HD12	1:J:2475:ILE:HB	1.87	0.55
1:A:1110:PHE:HE1	1:A:1126:VAL:HG12	1.71	0.55
1:B:1104:ASP:HA	1:B:1598:TRP:CZ2	2.42	0.55
1:A:714:TRP:CD1	1:A:794:PRO:HG2	2.41	0.55
1:H:1336:ASP:O	1:H:1338:PRO:HD3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1284:ASN:HA	1:G:1287:ARG:HD2	1.88	0.55
1:C:452:LEU:HD22	1:C:456:ILE:HG21	1.87	0.55
1:C:41:SER:OG	1:C:41:SER:O	2.18	0.55
1:D:2106:ASN:ND2	1:D:2189:ARG:HD2	2.21	0.55
1:F:1708:TYR:CZ	1:F:1717:ASP:HB3	2.42	0.55
1:F:1429:THR:HG21	1:J:101:SER:HA	1.88	0.55
1:F:1471:ILE:HB	1:F:1483:VAL:HB	1.87	0.55
1:E:2019:PHE:CE1	1:E:2280:TYR:HB2	2.42	0.55
1:J:2033:LEU:HD11	1:J:2266:TYR:HA	1.89	0.55
1:D:231:MET:HG3	1:D:898:VAL:HG23	1.89	0.55
1:J:193:ARG:HG2	1:J:250:ILE:HD11	1.88	0.55
1:D:370:ILE:HG12	1:D:410:LEU:HD22	1.87	0.55
1:A:844:ASN:H	1:B:564:ARG:NH2	1.99	0.55
1:F:2187:ARG:NH2	1:J:2111:GLU:OE1	2.40	0.55
1:D:195:SER:O	1:D:198:THR:HG22	2.06	0.55
1:J:2393:PHE:CE1	1:J:2482:LEU:HB2	2.42	0.55
1:G:994:GLN:O	1:G:998:ASN:ND2	2.38	0.55
1:F:1385:PHE:CB	1:F:1409:GLN:HA	2.37	0.55
1:H:197:ALA:HA	1:H:448:ARG:HH22	1.72	0.55
1:J:2068:LEU:CD1	1:J:2227:LEU:HB3	2.37	0.55
1:F:1353:ILE:HG22	1:F:1355:PRO:HD3	1.89	0.55
1:H:1122:TYR:HE2	1:H:1146:LYS:HG2	1.70	0.55
1:J:1760:PHE:CG	1:J:1820:PRO:HG3	2.41	0.55
1:F:1660:TRP:CH2	1:F:1928:GLN:HA	2.41	0.55
1:H:22:THR:HG23	1:H:52:ALA:HA	1.87	0.55
1:I:528:TYR:HE1	1:I:547:ARG:HD3	1.71	0.55
1:I:1168:TYR:CD2	1:I:1202:HIS:HB3	2.42	0.55
1:E:2351:PHE:HB2	1:E:2356:GLU:HG3	1.88	0.55
1:C:467:GLN:N	1:C:467:GLN:OE1	2.39	0.55
1:E:15:GLN:HB3	1:E:16:CYS:HB2	1.89	0.55
1:A:66:ILE:HD11	1:A:88:GLU:HB3	1.88	0.55
1:G:2409:ILE:HG13	1:G:2516:LYS:HG3	1.86	0.55
1:B:1760:PHE:CG	1:B:1820:PRO:HG3	2.41	0.55
1:I:1391:LEU:HD11	1:I:1406:PRO:HD2	1.87	0.55
1:H:135:VAL:HG21	1:H:958:ALA:HB3	1.87	0.55
1:G:964:ARG:HE	1:G:975:ASN:ND2	2.05	0.55
1:C:1497:LYS:HB3	1:C:1558:PHE:HB2	1.89	0.55
1:I:1257:ASP:OD1	1:I:1258:SER:N	2.33	0.55
1:E:1497:LYS:HB3	1:E:1558:PHE:HB2	1.87	0.55
1:F:181:ASN:OD1	1:F:182:TYR:N	2.38	0.55
1:J:1126:VAL:HB	1:J:1141:TRP:CZ3	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1865:ASP:OD1	1:J:1883:TYR:OH	2.24	0.55
1:I:1097:TYR:HB2	1:I:1160:PRO:O	2.07	0.55
1:C:2281:ARG:HG2	1:C:2289:ALA:HB3	1.88	0.55
1:J:361:ASN:OD1	1:J:362:PHE:N	2.39	0.55
1:E:1400:ASN:HB3	1:E:1402:LEU:H	1.71	0.55
1:A:118:TYR:HB2	1:A:1031:TRP:CE3	2.42	0.55
1:B:1607:THR:HG22	1:B:1764:ASN:HD22	1.72	0.55
1:B:1021:TRP:HA	1:B:1025:ASN:HB2	1.88	0.55
1:E:361:ASN:OD1	1:E:362:PHE:N	2.38	0.55
1:I:1321:ASP:HB3	1:I:1569:SER:HB3	1.88	0.55
1:A:2142:PRO:HB2	1:A:2145:PHE:CZ	2.42	0.55
1:B:1172:LEU:HD11	1:B:1221:ILE:HD11	1.89	0.55
1:H:2398:ILE:HB	1:H:2477:ILE:HG21	1.89	0.55
1:H:2106:ASN:OD1	1:H:2107:ILE:HG13	2.07	0.55
1:H:192:PHE:HD2	1:H:198:THR:HG21	1.72	0.55
1:I:1260:LYS:HA	1:I:1287:ARG:HH12	1.72	0.55
1:J:2361:VAL:HG12	1:J:2491:MET:HB2	1.89	0.55
1:B:1104:ASP:HA	1:B:1598:TRP:HZ2	1.72	0.55
1:A:273:PRO:HG3	1:A:434:TYR:HE2	1.70	0.55
1:A:1166:ARG:HB2	1:E:1614:VAL:HG11	1.88	0.55
1:J:1400:ASN:HB3	1:J:1402:LEU:H	1.71	0.55
1:F:2312:LEU:O	1:F:2316:GLN:HG3	2.07	0.55
1:I:1439:PRO:HG2	1:I:1470:TYR:HD1	1.72	0.55
1:J:341:MET:SD	1:J:342:ASP:N	2.80	0.55
1:C:1633:GLN:HB3	1:C:1755:SER:HB2	1.88	0.55
1:I:467:GLN:N	1:I:467:GLN:OE1	2.40	0.55
1:I:582:LEU:HA	1:I:585:LEU:HD12	1.89	0.55
1:A:1321:ASP:HA	1:E:1810:GLN:NE2	2.13	0.55
1:H:255:ILE:HB	1:H:439:LYS:HE3	1.89	0.55
1:F:1385:PHE:HB2	1:F:1408:TYR:O	2.07	0.55
1:F:2305:LEU:HD11	1:G:2258:LEU:HB2	1.89	0.55
1:B:81:ALA:H	1:B:1816:TRP:HH2	1.55	0.55
1:I:2424:GLY:O	1:I:2427:GLN:HB2	2.07	0.55
1:D:2427:GLN:HG2	1:D:2500:MET:HE2	1.88	0.55
1:C:1997:SER:OG	1:D:2235:GLN:NE2	2.39	0.55
1:G:1802:PRO:HB2	1:H:1002:GLU:HG2	1.89	0.55
1:F:232:HIS:HB2	1:F:903:ILE:HG12	1.89	0.55
1:C:142:ARG:HD2	1:C:971:LEU:O	2.07	0.55
1:F:59:ASN:OD1	1:F:1927:ARG:NH2	2.38	0.55
1:F:1217:VAL:HG22	1:F:1220:LYS:HB2	1.87	0.55
1:A:2229:THR:O	1:A:2233:GLN:HG2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1737:PRO:HA	1:I:1738:LYS:C	2.27	0.55
1:J:1279:THR:HB	1:J:1282:GLN:HB2	1.89	0.55
1:A:1294:PHE:HA	1:A:1301:ARG:CB	2.37	0.55
1:I:2399:ARG:HD3	1:I:2410:ARG:HH11	1.70	0.55
1:I:2398:ILE:HB	1:I:2477:ILE:HG21	1.89	0.55
1:D:1386:ILE:HB	1:D:1408:TYR:HB3	1.88	0.55
1:B:2422:LEU:H	1:B:2503:THR:CG2	2.20	0.55
1:I:1357:LEU:CD1	1:I:1555:PHE:HB3	2.37	0.55
1:A:1423:LEU:HD23	1:A:1456:TYR:HB3	1.88	0.55
1:F:1093:VAL:HG11	1:F:1110:PHE:HD2	1.72	0.55
1:F:564:ARG:HH12	1:J:844:ASN:HB2	1.72	0.55
1:D:90:ILE:HD11	1:E:1453:GLY:H	1.72	0.55
1:I:446:LEU:HD13	1:I:457:LEU:HD13	1.89	0.55
1:H:1122:TYR:CE2	1:H:1146:LYS:HG2	2.42	0.55
1:A:1170:LEU:HD12	1:A:1236:CYS:SG	2.47	0.55
1:B:771:ILE:HD11	1:B:804:LEU:HD13	1.89	0.55
1:H:1368:LYS:O	1:H:1372:CYS:HB2	2.06	0.55
1:J:332:ARG:HD3	1:J:334:TYR:CZ	2.42	0.55
1:I:716:ASP:OD1	1:I:727:ALA:N	2.34	0.55
1:F:1238:GLY:O	1:F:1305:ARG:HG3	2.06	0.55
1:B:36:VAL:HG21	1:B:40:LEU:HD22	1.89	0.55
1:C:830:LEU:HD21	1:C:835:LEU:HD12	1.88	0.55
1:G:2429:VAL:O	1:G:2451:SER:HA	2.07	0.55
1:J:1294:PHE:HD1	1:J:1301:ARG:HB2	1.72	0.54
1:J:1627:MET:HA	1:J:1630:GLN:HB2	1.88	0.54
1:H:2377:PHE:HE1	1:H:2387:LEU:HD12	1.72	0.54
1:H:1294:PHE:HA	1:H:1301:ARG:HB2	1.89	0.54
1:G:232:HIS:HB2	1:G:903:ILE:HG12	1.89	0.54
1:D:1604:ARG:NH1	1:D:1634:GLU:HB3	2.22	0.54
1:D:1381:LEU:HB3	1:D:1523:PRO:HB2	1.88	0.54
1:J:1295:ASP:H	1:J:1301:ARG:HG3	1.73	0.54
1:J:2433:LEU:HB2	1:J:2448:LEU:HB3	1.89	0.54
1:G:1291:TYR:C	1:G:1293:GLN:H	2.10	0.54
1:C:312:GLN:OE1	1:C:329:ARG:NH1	2.41	0.54
1:F:1386:ILE:HG13	1:F:1410:TYR:HE1	1.72	0.54
1:B:670:LEU:HB2	1:B:699:THR:HG21	1.89	0.54
1:C:1642:TYR:HE2	1:C:1691:PHE:HB2	1.70	0.54
1:D:353:TYR:CE2	1:D:397:LEU:HB2	2.43	0.54
1:H:458:GLU:OE1	1:H:506:ARG:NH2	2.33	0.54
1:F:901:ASP:HB3	1:F:904:GLN:HB3	1.89	0.54
1:B:1885:GLN:HA	1:B:1888:HIS:NE2	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1127:ASP:H	1:I:1140:ALA:HB1	1.71	0.54
1:F:698:ALA:HB2	1:J:2256:GLY:HA3	1.87	0.54
1:G:1769:TRP:HE1	1:G:1827:TRP:HB2	1.71	0.54
1:F:1103:ASN:HB3	1:F:1598:TRP:NE1	2.22	0.54
1:G:36:VAL:HG21	1:G:40:LEU:HD22	1.89	0.54
1:D:2348:ASN:O	1:D:2350:PRO:HD3	2.07	0.54
1:D:232:HIS:CB	1:D:903:ILE:HG12	2.36	0.54
1:H:737:LYS:HD3	1:H:746:VAL:HG21	1.88	0.54
1:D:465:ASN:OD1	1:D:466:LEU:N	2.38	0.54
1:B:298:GLY:HA2	1:B:309:SER:OG	2.06	0.54
1:A:2348:ASN:O	1:A:2350:PRO:HD3	2.07	0.54
1:G:142:ARG:HD2	1:G:971:LEU:O	2.06	0.54
1:F:1360:ILE:HD13	1:F:1527:GLU:HA	1.88	0.54
1:D:641:LEU:HD21	1:D:651:LEU:HD22	1.89	0.54
1:B:41:SER:O	1:B:41:SER:OG	2.24	0.54
1:A:2111:GLU:OE2	1:A:2188:ARG:NH2	2.41	0.54
1:G:1225:LYS:HE3	1:G:1252:GLN:HG2	1.88	0.54
1:E:464:VAL:CG2	1:E:477:LYS:HD2	2.38	0.54
1:J:1385:PHE:HB2	1:J:1408:TYR:O	2.07	0.54
1:A:2305:LEU:HD11	1:B:2258:LEU:HB2	1.88	0.54
1:J:1760:PHE:CD1	1:J:1820:PRO:HG3	2.42	0.54
1:D:298:GLY:HA2	1:D:309:SER:OG	2.08	0.54
1:F:2382:ASP:HB3	1:J:2403:PRO:HB2	1.88	0.54
1:E:2214:ALA:O	1:E:2217:ARG:HB3	2.07	0.54
1:E:1475:ASP:HB2	1:E:1479:THR:H	1.71	0.54
1:F:1010:SER:HB3	1:J:1811:ILE:HD11	1.89	0.54
1:E:772:ASN:HD22	1:E:822:LEU:CD1	2.21	0.54
1:D:1113:LEU:HD13	1:D:1121:TYR:CE2	2.41	0.54
1:J:2364:GLY:HA2	1:J:2377:PHE:CE2	2.42	0.54
1:E:887:LEU:HB2	1:E:889:VAL:HG12	1.89	0.54
1:H:1204:ARG:HH21	1:I:2126:THR:HG23	1.72	0.54
1:D:783:PRO:HB3	1:D:794:PRO:HB3	1.89	0.54
1:J:2494:LYS:H	1:J:2494:LYS:HD2	1.72	0.54
1:F:243:ILE:HG23	1:F:247:LEU:HD22	1.89	0.54
1:B:2058:ASN:OD1	1:B:2238:LEU:HD11	2.06	0.54
1:C:1468:LYS:O	1:C:1486:PRO:HG3	2.07	0.54
1:I:2108:ASN:HB3	1:I:2111:GLU:HG3	1.88	0.54
1:J:1021:TRP:HA	1:J:1025:ASN:HB2	1.90	0.54
1:B:1279:THR:OG1	1:B:1280:PRO:HD2	2.07	0.54
1:D:1291:TYR:O	1:D:1292:GLN:HG2	2.08	0.54
1:I:2393:PHE:CE1	1:I:2482:LEU:HB2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:192:PHE:CE2	1:A:194:PRO:HG2	2.43	0.54
1:E:498:LEU:HD21	1:E:597:ILE:HD13	1.89	0.54
1:I:600:LEU:HD21	1:I:608:LEU:HD12	1.90	0.54
1:B:2377:PHE:HE1	1:B:2387:LEU:HD12	1.72	0.54
1:I:1188:TYR:HD1	1:J:1188:TYR:HH	1.54	0.54
1:A:2309:THR:HA	1:B:2261:ILE:HD12	1.89	0.54
1:F:1710:THR:OG1	1:F:1715:PRO:HA	2.07	0.54
1:G:1336:ASP:O	1:G:1338:PRO:HD3	2.07	0.54
1:G:1060:LEU:HD11	1:G:1775:THR:HG23	1.89	0.54
1:G:1797:LYS:O	1:G:1805:TYR:OH	2.13	0.54
1:F:413:VAL:HG22	1:F:419:TRP:HB3	1.89	0.54
1:J:161:THR:HG21	1:J:977:VAL:HG11	1.89	0.54
1:E:1692:ILE:HD13	1:E:1707:VAL:HG21	1.90	0.54
1:B:461:VAL:HG22	1:B:474:VAL:HG11	1.89	0.54
1:D:1438:ILE:HB	1:D:1441:ALA:HB3	1.88	0.54
1:C:455:THR:HG21	1:C:508:TYR:CD2	2.42	0.54
1:B:1836:ASP:O	1:B:1840:VAL:HG23	2.07	0.54
1:G:1310:TYR:CE2	1:G:1576:LEU:HD13	2.42	0.54
1:C:200:TYR:HE1	1:C:941:SER:HG	1.56	0.54
1:I:2459:GLN:HG3	1:I:2460:PHE:O	2.08	0.54
1:D:1321:ASP:OD2	1:D:1322:TYR:N	2.41	0.54
1:G:1291:TYR:O	1:G:1292:GLN:HG2	2.08	0.54
1:F:1253:GLN:HB3	1:F:1296:THR:HA	1.89	0.54
1:G:1027:ARG:NH1	1:G:1030:THR:HG21	2.22	0.54
1:H:1498:VAL:HG11	1:H:1530:TYR:CE2	2.43	0.54
1:G:2497:GLN:HG2	1:G:2500:MET:SD	2.47	0.54
1:H:2305:LEU:HD21	1:I:2258:LEU:HD12	1.90	0.54
1:E:1104:ASP:HA	1:E:1598:TRP:HZ2	1.72	0.54
1:E:614:GLU:HG3	1:E:630:LEU:HG	1.90	0.54
1:B:2296:ALA:HB1	1:B:2306:ALA:HA	1.88	0.54
1:B:30:ASN:O	1:B:34:GLN:HG2	2.07	0.54
1:F:1802:PRO:HB2	1:G:1002:GLU:HG2	1.89	0.54
1:F:1213:ILE:HD13	1:F:1273:MET:HG3	1.88	0.54
1:J:1086:GLU:HG3	1:J:1610:ALA:HB1	1.90	0.54
1:A:1021:TRP:HA	1:A:1025:ASN:HB2	1.90	0.54
1:F:1069:LEU:O	1:F:1788:ASN:ND2	2.41	0.54
1:D:771:ILE:HD11	1:D:804:LEU:HB3	1.88	0.54
1:A:1401:LYS:NZ	1:E:1892:ASP:OD2	2.39	0.54
1:E:1657:ASP:OD1	1:E:1658:GLU:N	2.41	0.54
1:J:1382:GLY:H	1:J:1491:THR:CG2	2.20	0.54
1:H:1357:LEU:HB3	1:H:1530:TYR:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2111:GLU:OE2	1:B:2188:ARG:NH2	2.39	0.54
1:E:446:LEU:HD12	1:E:470:ILE:HD13	1.89	0.54
1:I:2360:LEU:HD22	1:I:2375:LEU:HD22	1.89	0.54
1:I:1604:ARG:NH1	1:I:1634:GLU:HB3	2.23	0.54
1:F:962:LYS:NZ	1:F:1398:SER:OG	2.37	0.54
1:A:205:GLU:OE1	1:A:242:SER:OG	2.25	0.54
1:D:2388:GLN:HB3	1:D:2485:SER:HB3	1.88	0.54
1:F:370:ILE:HD12	1:F:379:VAL:HB	1.90	0.54
1:I:1797:LYS:HE3	1:I:1804:GLY:HA3	1.88	0.54
1:F:733:TRP:CD2	1:F:752:ILE:HD12	2.42	0.54
1:J:2348:ASN:O	1:J:2350:PRO:HD3	2.08	0.54
1:E:1210:ASN:ND2	1:E:1211:THR:O	2.40	0.54
1:C:2102:LEU:HB3	1:C:2192:TRP:CZ3	2.43	0.54
1:F:2431:ALA:HB1	1:F:2484:LEU:HD21	1.90	0.54
1:B:1167:LEU:HD22	1:B:1209:TRP:HH2	1.72	0.54
1:J:1737:PRO:HA	1:J:1738:LYS:C	2.27	0.54
1:I:1633:GLN:HB3	1:I:1755:SER:HB2	1.90	0.54
1:I:2144:ILE:HG23	1:I:2149:GLY:O	2.08	0.54
1:E:2393:PHE:HB3	1:E:2477:ILE:O	2.08	0.54
1:J:2106:ASN:HB2	1:J:2189:ARG:HH11	1.70	0.54
1:C:1868:TYR:O	1:C:1871:LEU:HD22	2.07	0.54
1:C:465:ASN:HD22	1:C:471:ASN:HB2	1.72	0.54
1:J:1310:TYR:HE2	1:J:1349:LEU:HD22	1.72	0.54
1:D:1498:VAL:HG21	1:D:1530:TYR:CE2	2.43	0.54
1:F:2118:ARG:NH2	1:G:2177:ASP:OD1	2.41	0.54
1:G:1408:TYR:CG	1:G:1467:LEU:HD12	2.43	0.54
1:H:1321:ASP:HB3	1:H:1569:SER:HB3	1.90	0.54
1:B:1353:ILE:HG22	1:B:1355:PRO:HD3	1.90	0.54
1:J:1254:ASP:C	1:J:1256:LEU:H	2.10	0.54
1:B:125:GLU:HB3	1:B:1018:PHE:HE1	1.73	0.54
1:F:2431:ALA:HB3	1:F:2450:VAL:HG13	1.90	0.54
1:F:2512:ARG:HB3	1:G:2460:PHE:CE1	2.43	0.54
1:C:2033:LEU:HD11	1:C:2266:TYR:HA	1.89	0.54
1:D:1178:THR:O	1:E:2146:GLY:HA3	2.07	0.54
1:I:1163:TYR:CD2	1:I:1245:LEU:HB3	2.43	0.54
1:F:201:HIS:HB3	1:F:204:TYR:HB3	1.89	0.54
1:G:965:ASP:OD2	1:G:976:GLN:NE2	2.41	0.54
1:F:2102:LEU:HD13	1:F:2192:TRP:CZ2	2.43	0.54
1:J:991:ALA:O	1:J:995:LEU:HD13	2.08	0.54
1:J:1321:ASP:OD2	1:J:1322:TYR:N	2.41	0.54
1:H:892:GLN:HE22	1:I:541:GLY:HA2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:296:PHE:O	1:F:312:GLN:NE2	2.40	0.54
1:B:1386:ILE:HD12	1:B:1408:TYR:HD1	1.72	0.54
1:A:2501:LEU:HA	1:A:2504:LEU:HD12	1.89	0.54
1:C:714:TRP:CD1	1:C:794:PRO:HG2	2.42	0.54
1:G:170:LEU:HD13	1:G:182:TYR:HD2	1.72	0.54
1:B:1122:TYR:CD2	1:B:1146:LYS:HA	2.43	0.54
1:F:455:THR:HG21	1:F:508:TYR:CD2	2.43	0.54
1:F:36:VAL:HG22	1:F:40:LEU:HB2	1.90	0.54
1:A:2121:ALA:HB2	1:B:2172:MET:HB2	1.90	0.54
1:A:745:ALA:HB3	1:A:749:GLN:OE1	2.08	0.54
1:A:1760:PHE:CG	1:A:1820:PRO:HG3	2.43	0.54
1:E:337:ASN:HB3	1:E:339:TYR:O	2.08	0.54
1:H:464:VAL:CG2	1:H:477:LYS:HD2	2.38	0.54
1:C:2039:THR:O	1:C:2043:ILE:HG12	2.07	0.54
1:I:1250:TYR:CE2	1:I:1294:PHE:HB3	2.24	0.54
1:E:1411:SER:HA	1:E:1415:SER:CB	2.38	0.54
1:J:1153:PRO:HB3	1:J:1171:TRP:HB2	1.90	0.54
1:D:488:TYR:CZ	1:D:597:ILE:HD12	2.43	0.54
1:E:1121:TYR:O	1:E:1147:ILE:HG12	2.08	0.54
1:H:1295:ASP:N	1:H:1301:ARG:HG3	2.23	0.54
1:J:1336:ASP:O	1:J:1338:PRO:HD3	2.07	0.54
1:F:714:TRP:CE3	1:F:762:LEU:HD22	2.43	0.54
1:E:1388:TYR:CD1	1:E:1406:PRO:HG2	2.43	0.54
1:E:1012:VAL:HG13	1:E:1015:ARG:HD2	1.90	0.54
1:B:1111:ILE:HD11	1:B:1160:PRO:HB3	1.89	0.54
1:B:161:THR:HG22	1:B:981:ILE:O	2.08	0.54
1:I:2273:CYS:HB3	1:I:2292:ILE:CD1	2.38	0.54
1:D:147:SER:HA	1:D:1906:ARG:HE	1.73	0.54
1:E:955:ALA:HB1	1:E:961:ILE:HD12	1.88	0.54
1:A:737:LYS:HD3	1:A:746:VAL:HG21	1.89	0.54
1:A:461:VAL:HG22	1:A:474:VAL:HG11	1.89	0.54
1:D:1426:ARG:NH1	1:D:1428:THR:OG1	2.36	0.54
1:J:2099:TYR:CD2	1:J:2195:GLN:HB3	2.43	0.54
1:B:1138:ALA:HA	1:B:1141:TRP:HD1	1.72	0.54
1:C:2059:GLN:HB2	1:D:2233:GLN:CD	2.28	0.54
1:H:138:LEU:HD11	1:H:993:ILE:HG12	1.90	0.54
1:I:497:ILE:HD13	1:I:589:TYR:CD2	2.37	0.54
1:C:534:GLU:O	1:C:580:ASN:HB2	2.08	0.54
1:J:1721:TRP:HA	1:J:1740:ILE:HD12	1.90	0.54
1:A:1498:VAL:HG11	1:A:1530:TYR:CD2	2.43	0.54
1:I:1704:HIS:HD2	1:I:1726:VAL:HG23	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1704:HIS:HD2	1:H:1726:VAL:HG23	1.70	0.54
1:C:2258:LEU:HA	1:C:2261:ILE:CG2	2.38	0.54
1:J:206:ASN:OD1	1:J:934:LEU:HD11	2.08	0.54
1:I:237:LEU:HB2	1:I:479:PHE:HB2	1.90	0.54
1:B:1610:ALA:O	1:B:1614:VAL:HG23	2.08	0.54
1:C:153:GLN:O	1:C:157:ILE:HG12	2.08	0.54
1:J:453:SER:HB3	1:J:456:ILE:HG12	1.90	0.54
1:D:2280:TYR:OH	1:D:2324:ARG:NH1	2.41	0.54
1:E:1239:TYR:HD2	1:E:1242:GLU:H	1.55	0.54
1:F:1319:ARG:HH21	1:F:1333:TYR:HA	1.73	0.54
1:H:2431:ALA:HB3	1:H:2450:VAL:CG1	2.38	0.54
1:E:1233:GLY:HA3	1:E:1250:TYR:HB2	1.90	0.53
1:C:1351:ILE:HG23	1:C:1537:ILE:HB	1.89	0.53
1:G:1284:ASN:O	1:G:1287:ARG:HG2	2.08	0.53
1:G:1093:VAL:H	1:G:1594:GLN:HE22	1.56	0.53
1:A:497:ILE:HD13	1:A:589:TYR:CD2	2.39	0.53
1:E:2106:ASN:HB2	1:E:2189:ARG:HH11	1.73	0.53
1:A:283:LYS:HG3	1:A:288:LEU:O	2.08	0.53
1:B:2336:SER:HB2	1:B:2506:ASP:OD1	2.08	0.53
1:J:1385:PHE:HB3	1:J:1409:GLN:HA	1.90	0.53
1:C:2445:CYS:HB3	1:C:2471:PRO:HA	1.90	0.53
1:D:1117:ASP:OD2	1:E:1211:THR:HB	2.07	0.53
1:B:1779:VAL:HG11	1:B:1795:TRP:CD2	2.43	0.53
1:C:2056:LEU:HD11	1:D:2237:GLN:HE21	1.73	0.53
1:E:2291:PHE:CG	1:E:2317:MET:HG3	2.43	0.53
1:F:1646:VAL:HB	1:F:1745:GLU:HB3	1.90	0.53
1:I:714:TRP:CD1	1:I:794:PRO:HG2	2.43	0.53
1:C:161:THR:HG21	1:C:977:VAL:HG11	1.90	0.53
1:G:380:ARG:NH1	1:G:382:GLU:OE1	2.41	0.53
1:F:125:GLU:HB3	1:F:1018:PHE:HE1	1.74	0.53
1:B:1744:PHE:HD1	1:B:1747:VAL:CG2	2.21	0.53
1:I:1471:ILE:HB	1:I:1483:VAL:HB	1.90	0.53
1:E:640:TRP:CD2	1:E:802:ILE:HG22	2.42	0.53
1:B:1400:ASN:HB3	1:B:1402:LEU:H	1.73	0.53
1:B:2095:ARG:HD3	1:C:2198:ASN:ND2	2.23	0.53
1:E:353:TYR:HE2	1:E:402:ILE:HD11	1.74	0.53
1:I:2040:LEU:HB2	1:I:2258:LEU:HD22	1.91	0.53
1:H:1104:ASP:HA	1:H:1598:TRP:CZ2	2.43	0.53
1:D:23:ASP:O	1:D:26:HIS:ND1	2.41	0.53
1:J:667:ILE:HD11	1:J:757:GLN:HG3	1.90	0.53
1:I:2281:ARG:HG2	1:I:2289:ALA:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:341:MET:SD	1:E:342:ASP:N	2.81	0.53
1:A:1495:PRO:O	1:A:1513:ALA:HB3	2.07	0.53
1:E:176:GLU:HG2	1:E:954:VAL:HG22	1.89	0.53
1:C:850:SER:O	1:C:854:GLN:HG3	2.08	0.53
1:A:130:HIS:CD2	1:A:136:TYR:HB2	2.43	0.53
1:F:542:SER:H	1:J:892:GLN:HE22	1.56	0.53
1:F:2107:ILE:HG23	1:F:2111:GLU:HB2	1.91	0.53
1:H:1777:MET:HE2	1:H:1799:VAL:HG11	1.90	0.53
1:E:2412:ILE:HD12	1:E:2475:ILE:HB	1.91	0.53
1:H:1321:ASP:OD2	1:H:1322:TYR:N	2.42	0.53
1:F:1127:ASP:H	1:F:1140:ALA:HB1	1.72	0.53
1:E:1604:ARG:NH2	1:E:1756:GLU:OE2	2.42	0.53
1:G:1121:TYR:O	1:G:1147:ILE:HG12	2.08	0.53
1:A:1141:TRP:CD1	1:A:1763:ALA:HA	2.42	0.53
1:G:341:MET:SD	1:G:342:ASP:N	2.81	0.53
1:G:67:LEU:HD12	1:G:1039:TYR:HE2	1.72	0.53
1:I:1642:TYR:HE2	1:I:1691:PHE:HB2	1.74	0.53
1:B:565:LEU:HB2	1:B:602:ILE:HD13	1.90	0.53
1:J:2424:GLY:O	1:J:2427:GLN:HB2	2.08	0.53
1:A:1807:VAL:HB	1:A:1812:GLN:OE1	2.08	0.53
1:G:600:LEU:HD21	1:G:608:LEU:HD12	1.91	0.53
1:A:1737:PRO:HA	1:A:1738:LYS:C	2.28	0.53
1:A:2255:ARG:O	1:A:2255:ARG:HG2	2.08	0.53
1:I:2291:PHE:CD2	1:I:2317:MET:HA	2.43	0.53
1:B:1159:ARG:NH2	1:B:1301:ARG:O	2.30	0.53
1:I:41:SER:OG	1:I:41:SER:O	2.26	0.53
1:I:1741:LEU:O	1:I:1742:THR:HG22	2.08	0.53
1:D:41:SER:HB3	1:D:44:GLU:OE1	2.08	0.53
1:D:771:ILE:HD11	1:D:804:LEU:HD13	1.89	0.53
1:B:1122:TYR:CE2	1:B:1146:LYS:HG2	2.43	0.53
1:B:657:THR:HG23	1:B:659:TYR:HE1	1.74	0.53
1:A:2281:ARG:HG2	1:A:2289:ALA:HB3	1.91	0.53
1:J:772:ASN:HD22	1:J:822:LEU:CD1	2.21	0.53
1:B:1360:ILE:HD13	1:B:1527:GLU:HA	1.89	0.53
1:I:2100:GLY:HA2	1:I:2196:ARG:HD3	1.91	0.53
1:C:622:ILE:HD13	1:C:627:LEU:HD23	1.91	0.53
1:C:814:LEU:HD13	1:C:821:VAL:HG21	1.91	0.53
1:F:105:ALA:HB2	1:F:1896:LEU:HD13	1.89	0.53
1:B:568:ILE:HD13	1:B:605:LEU:HD12	1.91	0.53
1:A:102:GLN:NE2	1:A:1901:THR:HG23	2.23	0.53
1:H:1312:ILE:HD13	1:H:1351:ILE:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1385:PHE:HB2	1:H:1408:TYR:O	2.08	0.53
1:E:353:TYR:CD2	1:E:397:LEU:HD12	2.43	0.53
1:B:1513:ALA:HA	1:B:1532:PHE:HE2	1.73	0.53
1:C:2257:ARG:O	1:C:2261:ILE:HG22	2.08	0.53
1:F:1516:ASP:HB2	1:F:1532:PHE:HD2	1.73	0.53
1:B:1400:ASN:HB3	1:B:1402:LEU:HB2	1.89	0.53
1:G:2106:ASN:HB2	1:G:2189:ARG:NH1	2.23	0.53
1:F:1647:ILE:HB	1:F:1686:ILE:HB	1.90	0.53
1:A:441:ASN:HD21	1:A:445:ARG:NH1	2.06	0.53
1:J:319:ASN:HB3	1:J:322:ASP:HB2	1.91	0.53
1:I:2102:LEU:HB3	1:I:2192:TRP:CZ3	2.43	0.53
1:A:1381:LEU:HD13	1:A:1382:GLY:N	2.24	0.53
1:D:1248:MET:CE	1:D:1286:TYR:HB2	2.38	0.53
1:A:930:GLN:HA	1:A:933:THR:HG22	1.91	0.53
1:E:1885:GLN:HA	1:E:1888:HIS:NE2	2.24	0.53
1:F:2072:ASP:HA	1:F:2075:ILE:HG12	1.90	0.53
1:F:1321:ASP:HB3	1:F:1569:SER:HB3	1.91	0.53
1:A:1279:THR:OG1	1:A:1280:PRO:HD2	2.08	0.53
1:D:41:SER:OG	1:D:41:SER:O	2.25	0.53
1:B:1321:ASP:OD2	1:B:1322:TYR:N	2.42	0.53
1:D:1375:MET:SD	1:D:1385:PHE:HE1	2.32	0.53
1:D:1797:LYS:O	1:D:1805:TYR:OH	2.22	0.53
1:D:464:VAL:CG2	1:D:477:LYS:HD2	2.39	0.53
1:B:318:VAL:HG12	1:B:325:VAL:HG22	1.91	0.53
1:E:565:LEU:HB2	1:E:602:ILE:HD13	1.90	0.53
1:H:897:LEU:HD11	1:H:922:LEU:HD11	1.90	0.53
1:A:2018:ARG:NH2	1:A:2468:LYS:O	2.42	0.53
1:C:1413:ASN:OD1	1:C:1414:THR:N	2.42	0.53
1:E:2457:SER:HB3	1:E:2462:LEU:HD22	1.91	0.53
1:B:969:GLN:OE1	1:B:999:ARG:NE	2.41	0.53
1:G:28:SER:OG	1:G:31:GLU:HG3	2.09	0.53
1:J:143:PRO:HA	1:J:146:LYS:HE2	1.91	0.53
1:F:2329:LEU:HB2	1:F:2515:ILE:HB	1.91	0.53
1:J:1111:ILE:HG13	1:J:1160:PRO:HG3	1.91	0.53
1:B:1657:ASP:OD1	1:B:1658:GLU:N	2.42	0.53
1:A:2431:ALA:HB3	1:A:2450:VAL:HG13	1.90	0.53
1:H:2161:THR:O	1:H:2165:MET:HG2	2.08	0.53
1:G:498:LEU:HD11	1:G:593:LEU:HB3	1.89	0.53
1:B:488:TYR:CZ	1:B:597:ILE:HD12	2.43	0.53
1:C:1321:ASP:HB3	1:C:1569:SER:HB3	1.89	0.53
1:I:446:LEU:HD12	1:I:447:SER:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1649:PRO:HB3	1:I:1684:THR:HA	1.89	0.53
1:J:2419:LEU:N	1:J:2453:GLY:O	2.29	0.53
1:C:2422:LEU:HB2	1:C:2503:THR:HG21	1.91	0.53
1:A:2336:SER:HB2	1:A:2506:ASP:OD1	2.09	0.53
1:B:1336:ASP:O	1:B:1338:PRO:HD3	2.08	0.53
1:G:1909:ARG:NH2	1:G:1942:ASN:OD1	2.41	0.53
1:B:1642:TYR:OH	1:B:1756:GLU:HG3	2.08	0.53
1:D:1090:ASN:HD21	1:D:1610:ALA:HB3	1.74	0.53
1:C:2494:LYS:HD2	1:C:2494:LYS:H	1.73	0.53
1:H:111:SER:HB3	1:H:114:SER:HB3	1.89	0.53
1:B:2494:LYS:H	1:B:2494:LYS:HD2	1.74	0.53
1:J:911:THR:HB	1:J:914:GLN:H	1.74	0.53
1:C:481:THR:O	1:C:485:MET:HG2	2.09	0.53
1:F:1295:ASP:N	1:F:1301:ARG:HG3	2.23	0.53
1:C:1797:LYS:O	1:C:1805:TYR:OH	2.14	0.53
1:E:1227:GLU:HG3	1:E:1230:ARG:HG2	1.90	0.53
1:D:68:LYS:HZ3	1:D:1040:TYR:HE2	1.57	0.53
1:I:1284:ASN:O	1:I:1287:ARG:HG2	2.09	0.53
1:G:2111:GLU:OE2	1:G:2188:ARG:NH2	2.38	0.53
1:A:1648:PRO:O	1:A:1681:LEU:HD11	2.09	0.53
1:F:471:ASN:HB3	1:F:474:VAL:HG23	1.90	0.53
1:A:2361:VAL:HG12	1:A:2491:MET:HB2	1.91	0.53
1:E:1381:LEU:HD13	1:E:1382:GLY:N	2.24	0.53
1:E:461:VAL:HG22	1:E:474:VAL:HG11	1.91	0.53
1:F:1122:TYR:CE2	1:F:1146:LYS:HG2	2.44	0.53
1:B:1168:TYR:CD2	1:B:1202:HIS:HB3	2.43	0.53
1:F:237:LEU:HB2	1:F:479:PHE:HB2	1.91	0.53
1:I:557:ILE:HG22	1:I:558:ASP:O	2.08	0.53
1:G:1959:TYR:HA	1:G:1962:THR:HG22	1.91	0.53
1:E:1353:ILE:HG22	1:E:1355:PRO:HD3	1.89	0.53
1:A:2154:TRP:NE1	1:E:2142:PRO:O	2.33	0.53
1:G:1260:LYS:HA	1:G:1287:ARG:NH1	2.21	0.53
1:E:1653:SER:N	1:E:1713:LYS:HE3	2.24	0.53
1:E:1816:TRP:CZ2	1:E:1849:LYS:HD3	2.44	0.53
1:C:1410:TYR:CZ	1:C:1464:PRO:HB3	2.44	0.53
1:C:1514:ASP:OD2	1:C:1515:LYS:N	2.41	0.53
1:B:1649:PRO:HB3	1:B:1684:THR:HA	1.91	0.53
1:I:1704:HIS:CD2	1:I:1726:VAL:HG23	2.44	0.53
1:H:1233:GLY:HA3	1:H:1250:TYR:HB2	1.91	0.53
1:H:1357:LEU:HD12	1:H:1555:PHE:HB3	1.91	0.53
1:I:2253:TRP:HA	1:J:698:ALA:HB1	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1641:PHE:HB3	1:B:1692:ILE:O	2.07	0.53
1:I:1111:ILE:HD11	1:I:1160:PRO:HB3	1.91	0.53
1:H:1411:SER:HA	1:H:1415:SER:HB2	1.91	0.53
1:H:1411:SER:HB2	1:H:1419:GLN:HA	1.91	0.53
1:I:964:ARG:NH1	1:I:976:GLN:HG2	2.23	0.53
1:E:1821:LEU:HD23	1:E:1845:PRO:HB3	1.91	0.53
1:I:326:LYS:NZ	1:I:430:GLU:HB3	2.24	0.53
1:G:1737:PRO:HA	1:G:1738:LYS:C	2.29	0.53
1:J:318:VAL:HG12	1:J:325:VAL:HG22	1.91	0.53
1:H:629:THR:HG23	1:H:632:ARG:NH1	2.24	0.53
1:F:2229:THR:O	1:F:2233:GLN:HG2	2.08	0.53
1:A:2039:THR:O	1:A:2043:ILE:HG12	2.09	0.53
1:D:1345:ALA:HB3	1:D:1348:ASP:HB3	1.90	0.53
1:C:1090:ASN:HD21	1:C:1610:ALA:HB3	1.73	0.53
1:B:1777:MET:HE1	1:B:1852:THR:HG23	1.91	0.53
1:H:1126:VAL:HB	1:H:1141:TRP:CZ3	2.44	0.53
1:I:195:SER:O	1:I:198:THR:HG22	2.08	0.53
1:H:1121:TYR:O	1:H:1147:ILE:HG12	2.09	0.53
1:H:534:GLU:HB2	1:H:580:ASN:ND2	2.24	0.53
1:C:520:ASN:HD21	1:C:528:TYR:HB2	1.73	0.53
1:A:1408:TYR:OH	1:A:1420:GLY:HA3	2.09	0.53
1:J:1650:TYR:HE1	1:J:1654:THR:HA	1.74	0.53
1:H:1057:MET:HE2	1:H:1774:TYR:HB3	1.90	0.53
1:E:41:SER:OG	1:E:41:SER:O	2.24	0.53
1:B:2118:ARG:HE	1:C:2176:ALA:HB1	1.74	0.53
1:A:65:ARG:NH1	1:A:88:GLU:OE2	2.42	0.53
1:A:520:ASN:HD21	1:A:528:TYR:H	1.57	0.53
1:B:1423:LEU:HD23	1:B:1456:TYR:HB3	1.91	0.53
1:I:2348:ASN:O	1:I:2350:PRO:HD3	2.09	0.53
1:B:348:PHE:HE1	1:B:354:ARG:HD3	1.74	0.53
1:F:797:ASP:H	1:F:800:SER:HB2	1.73	0.53
1:I:1350:LYS:NZ	1:I:1536:GLU:HB2	2.24	0.53
1:F:1770:GLU:HA	1:F:1774:TYR:HB2	1.91	0.53
1:J:171:GLU:OE1	1:J:182:TYR:OH	2.26	0.53
1:H:237:LEU:HB2	1:H:479:PHE:HB2	1.90	0.53
1:C:1659:ARG:NH1	1:C:1929:ASN:OD1	2.43	0.52
1:B:366:SER:OG	1:B:415:PRO:HD3	2.10	0.52
1:J:1353:ILE:HG22	1:J:1355:PRO:HD3	1.90	0.52
1:F:1425:HIS:ND1	1:F:1454:ASP:OD1	2.42	0.52
1:F:465:ASN:OD1	1:F:466:LEU:N	2.42	0.52
1:G:1836:ASP:HB3	1:G:1839:ALA:HB3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:465:ASN:OD1	1:E:466:LEU:N	2.41	0.52
1:J:106:PRO:HB3	1:J:1951:GLN:NE2	2.24	0.52
1:I:2087:LYS:HD3	1:J:2204:LYS:HB3	1.91	0.52
1:F:1291:TYR:O	1:F:1292:GLN:HG2	2.09	0.52
1:C:332:ARG:HD3	1:C:334:TYR:CZ	2.44	0.52
1:B:1357:LEU:CD1	1:B:1555:PHE:HB3	2.40	0.52
1:I:1381:LEU:HD13	1:I:1382:GLY:N	2.24	0.52
1:G:514:GLN:HA	1:G:517:ARG:NH1	2.24	0.52
1:D:608:LEU:O	1:D:612:VAL:HG23	2.10	0.52
1:D:2512:ARG:HB3	1:E:2460:PHE:HE1	1.72	0.52
1:F:1650:TYR:O	1:F:1651:ASN:HB2	2.09	0.52
1:F:1452:ILE:HD12	1:J:90:ILE:HA	1.90	0.52
1:F:2273:CYS:HB3	1:F:2292:ILE:CD1	2.39	0.52
1:I:453:SER:HB3	1:I:456:ILE:HG12	1.91	0.52
1:E:353:TYR:HD2	1:E:397:LEU:HD12	1.75	0.52
1:G:1385:PHE:HB2	1:G:1408:TYR:O	2.08	0.52
1:E:142:ARG:NH1	1:E:144:ASP:OD2	2.42	0.52
1:J:146:LYS:O	1:J:1908:ASP:HB2	2.09	0.52
1:A:520:ASN:ND2	1:A:528:TYR:H	2.06	0.52
1:D:1012:VAL:HG13	1:D:1015:ARG:HD2	1.90	0.52
1:D:201:HIS:HB3	1:D:204:TYR:HB3	1.90	0.52
1:D:850:SER:O	1:D:854:GLN:HG3	2.09	0.52
1:E:733:TRP:NE1	1:E:748:THR:HB	2.24	0.52
1:A:30:ASN:O	1:A:34:GLN:HG2	2.10	0.52
1:A:129:LEU:HD11	1:A:1018:PHE:CE2	2.45	0.52
1:J:1413:ASN:OD1	1:J:1414:THR:N	2.41	0.52
1:A:380:ARG:NH1	1:A:382:GLU:OE1	2.42	0.52
1:I:1651:ASN:CG	1:I:1652:LEU:HA	2.29	0.52
1:G:1312:ILE:HD11	1:G:1574:VAL:HG22	1.90	0.52
1:A:353:TYR:HE2	1:A:397:LEU:HB2	1.73	0.52
1:E:718:LEU:HD23	1:E:793:ALA:HB1	1.91	0.52
1:F:1336:ASP:O	1:F:1338:PRO:HD3	2.09	0.52
1:J:299:LYS:HG2	1:J:309:SER:HB3	1.90	0.52
1:H:1283:SER:O	1:H:1287:ARG:HB3	2.10	0.52
1:J:1868:TYR:O	1:J:1871:LEU:HD22	2.10	0.52
1:A:1117:ASP:OD1	1:A:1118:ALA:N	2.41	0.52
1:J:2399:ARG:HD3	1:J:2410:ARG:HH11	1.75	0.52
1:E:2364:GLY:HA2	1:E:2377:PHE:HE2	1.74	0.52
1:H:378:LEU:HD13	1:H:395:ILE:HG21	1.91	0.52
1:F:1411:SER:HB3	1:F:1419:GLN:HA	1.91	0.52
1:G:1360:ILE:HD13	1:G:1527:GLU:HA	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2291:PHE:CD2	1:J:2317:MET:HG3	2.44	0.52
1:J:2229:THR:O	1:J:2233:GLN:HG2	2.08	0.52
1:B:1640:GLY:HA2	1:B:1691:PHE:HE1	1.75	0.52
1:G:1390:SER:HB3	1:G:1484:SER:HB2	1.91	0.52
1:B:852:GLN:HG3	1:B:891:PRO:HB2	1.90	0.52
1:B:2237:GLN:O	1:B:2240:PHE:HB3	2.08	0.52
1:E:23:ASP:O	1:E:26:HIS:ND1	2.41	0.52
1:G:503:ILE:HB	1:G:582:LEU:HD11	1.90	0.52
1:D:1711:PHE:CE1	1:D:1714:SER:HB3	2.44	0.52
1:J:2448:LEU:HB2	1:J:2472:PHE:HE1	1.75	0.52
1:E:2033:LEU:CD1	1:E:2266:TYR:HA	2.40	0.52
1:H:363:TYR:CZ	1:H:414:LEU:HD23	2.45	0.52
1:H:79:HIS:ND1	1:H:1802:PRO:HB3	2.25	0.52
1:F:1704:HIS:CE1	1:F:1727:ARG:HB3	2.45	0.52
1:A:1061:LEU:HA	1:A:1064:VAL:HG12	1.90	0.52
1:I:1220:LYS:HG2	1:I:1265:GLN:HB3	1.92	0.52
1:G:714:TRP:CD1	1:G:794:PRO:HG2	2.44	0.52
1:C:1380:LYS:HD2	1:C:1414:THR:OG1	2.10	0.52
1:I:1413:ASN:OD1	1:I:1414:THR:N	2.42	0.52
1:G:1616:ARG:NH2	1:G:1628:GLU:HB2	2.23	0.52
1:A:1710:THR:OG1	1:A:1715:PRO:HA	2.09	0.52
1:G:2203:LEU:O	1:G:2207:ASP:HB2	2.09	0.52
1:I:1158:ILE:HD11	1:I:1169:LEU:HD13	1.92	0.52
1:E:1289:ASN:HB2	1:E:1306:TYR:HE2	1.73	0.52
1:B:1604:ARG:NH1	1:B:1634:GLU:HB3	2.25	0.52
1:J:2452:HIS:ND1	1:J:2456:ASP:HB3	2.25	0.52
1:J:1070:ASN:OD1	1:J:1071:ALA:N	2.42	0.52
1:J:2009:LEU:HD22	1:J:2294:PRO:HD3	1.91	0.52
1:G:1117:ASP:OD2	1:I:2134:ALA:HA	2.09	0.52
1:I:840:ASN:HB3	1:J:649:PHE:CE2	2.43	0.52
1:F:1611:ARG:HD2	1:G:1271:ALA:HB1	1.92	0.52
1:B:1403:MET:HA	1:B:1481:THR:OG1	2.09	0.52
1:B:2393:PHE:HB3	1:B:2477:ILE:O	2.10	0.52
1:E:534:GLU:O	1:E:580:ASN:HB2	2.10	0.52
1:J:1225:LYS:HE3	1:J:1252:GLN:HG2	1.92	0.52
1:E:1279:THR:OG1	1:E:1280:PRO:HD2	2.09	0.52
1:C:1821:LEU:HD22	1:C:1845:PRO:HB3	1.90	0.52
1:D:2033:LEU:HD11	1:D:2266:TYR:HA	1.91	0.52
1:F:1220:LYS:HG2	1:F:1265:GLN:HB3	1.91	0.52
1:E:1641:PHE:HD1	1:E:1692:ILE:HB	1.73	0.52
1:G:153:GLN:O	1:G:157:ILE:HG12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1060:LEU:HD11	1:H:1775:THR:HG23	1.90	0.52
1:F:2361:VAL:HG12	1:F:2491:MET:HB2	1.92	0.52
1:I:322:ASP:HB2	1:I:324:THR:HG22	1.91	0.52
1:I:2183:GLU:OE1	1:I:2186:ARG:NH1	2.42	0.52
1:H:622:ILE:HD13	1:H:627:LEU:HD23	1.92	0.52
1:I:709:HIS:O	1:I:713:LEU:HG	2.10	0.52
1:J:204:TYR:OH	1:J:238:GLY:O	2.25	0.52
1:B:2337:LEU:HD22	1:B:2391:VAL:HG21	1.91	0.52
1:B:1295:ASP:HB3	1:B:1301:ARG:HE	1.75	0.52
1:A:2393:PHE:CE1	1:A:2482:LEU:HB2	2.42	0.52
1:J:1741:LEU:HD23	1:J:1742:THR:N	2.23	0.52
1:I:534:GLU:O	1:I:580:ASN:HB2	2.10	0.52
1:F:892:GLN:HE22	1:G:542:SER:N	2.06	0.52
1:B:464:VAL:CG2	1:B:477:LYS:HD2	2.39	0.52
1:J:232:HIS:CB	1:J:903:ILE:HG12	2.40	0.52
1:J:1359:ILE:HD13	1:J:1565:LEU:HD12	1.92	0.52
1:H:1086:GLU:HG3	1:H:1610:ALA:HB1	1.91	0.52
1:E:2422:LEU:O	1:E:2423:LEU:HD23	2.10	0.52
1:I:1130:LYS:HB2	1:I:1140:ALA:HB2	1.90	0.52
1:F:698:ALA:HB1	1:J:2253:TRP:HA	1.92	0.52
1:D:2055:LEU:O	1:D:2059:GLN:HG2	2.10	0.52
1:G:2337:LEU:HD22	1:G:2391:VAL:HG21	1.91	0.52
1:D:331:THR:HB	1:D:427:THR:HB	1.92	0.52
1:D:467:GLN:N	1:D:467:GLN:OE1	2.42	0.52
1:D:1551:ILE:HB	1:D:1572:ILE:HB	1.90	0.52
1:J:1293:GLN:O	1:J:1301:ARG:HB3	2.09	0.52
1:I:1295:ASP:H	1:I:1301:ARG:HG3	1.75	0.52
1:I:2106:ASN:HD21	1:I:2189:ARG:HB2	1.75	0.52
1:B:363:TYR:CE1	1:B:414:LEU:HD23	2.45	0.52
1:E:1093:VAL:N	1:E:1594:GLN:HE22	2.08	0.52
1:J:1741:LEU:CD2	1:J:1742:THR:H	2.22	0.52
1:H:761:GLN:OE1	1:H:796:HIS:HE1	1.93	0.52
1:H:1498:VAL:HG21	1:H:1530:TYR:HE2	1.75	0.52
1:C:458:GLU:CD	1:C:506:ARG:HH22	2.13	0.52
1:F:1868:TYR:CD2	1:F:1976:ILE:HG13	2.45	0.52
1:F:1868:TYR:O	1:F:1871:LEU:HD22	2.09	0.52
1:I:947:SER:CB	1:I:975:ASN:HD22	2.22	0.52
1:G:1642:TYR:CE2	1:G:1691:PHE:HB2	2.43	0.52
1:J:464:VAL:HG21	1:J:477:LYS:HD2	1.92	0.52
1:G:232:HIS:CB	1:G:903:ILE:HG12	2.39	0.52
1:G:1769:TRP:NE1	1:G:1827:TRP:HB2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2280:TYR:CE1	1:D:2321:HIS:HB2	2.45	0.52
1:E:1885:GLN:HA	1:E:1888:HIS:CD2	2.44	0.52
1:B:1248:MET:HE1	1:B:1286:TYR:HB2	1.91	0.52
1:A:1636:GLN:O	1:A:1637:LEU:HG	2.10	0.52
1:D:278:MET:SD	1:D:1478:GLY:HA2	2.50	0.52
1:C:1113:LEU:HD13	1:C:1121:TYR:CE2	2.44	0.52
1:B:1972:HIS:HA	1:C:978:SER:OG	2.10	0.52
1:I:1357:LEU:HD12	1:I:1555:PHE:HD2	1.74	0.52
1:D:2256:GLY:HA3	1:E:698:ALA:HB2	1.92	0.52
1:F:1411:SER:HA	1:F:1415:SER:HB2	1.91	0.52
1:E:2187:ARG:HD3	1:E:2190:GLN:OE1	2.10	0.52
1:B:1355:PRO:HD2	1:B:1532:PHE:HB2	1.91	0.52
1:C:1597:GLN:HG2	1:C:1602:ARG:HG2	1.92	0.52
1:A:231:MET:HG3	1:A:898:VAL:HG23	1.90	0.52
1:C:141:ARG:NH2	1:C:1005:GLU:OE1	2.27	0.52
1:A:609:LEU:HD21	1:A:634:LEU:HD11	1.92	0.52
1:J:197:ALA:HB3	1:J:948:THR:HG21	1.90	0.52
1:I:764:MET:O	1:I:768:SER:N	2.30	0.52
1:F:2111:GLU:OE1	1:G:2187:ARG:NH2	2.41	0.52
1:I:1627:MET:HA	1:I:1630:GLN:HB2	1.92	0.52
1:G:994:GLN:NE2	1:G:1026:LYS:O	2.42	0.52
1:C:1261:ASN:H	1:C:1287:ARG:NH1	2.08	0.52
1:B:521:THR:HG23	1:B:522:PRO:CD	2.40	0.52
1:I:521:THR:HG22	1:I:522:PRO:HD2	1.91	0.52
1:F:1386:ILE:HB	1:F:1408:TYR:HB3	1.92	0.52
1:J:1650:TYR:CE1	1:J:1654:THR:HA	2.45	0.52
1:D:2107:ILE:HG23	1:D:2111:GLU:HB2	1.90	0.52
1:I:79:HIS:CD2	1:I:1815:GLN:HE21	2.27	0.52
1:C:2147:PHE:CD2	1:D:2147:PHE:HE2	2.27	0.52
1:H:2431:ALA:HB3	1:H:2450:VAL:HG13	1.91	0.52
1:F:1443:ARG:NE	1:F:1466:ASP:OD1	2.42	0.52
1:B:1495:PRO:HB3	1:B:1520:GLN:OE1	2.09	0.52
1:H:162:LEU:HD21	1:H:940:GLU:HA	1.92	0.52
1:H:1341:ASN:O	1:H:1352:TYR:N	2.28	0.52
1:C:1919:HIS:CE1	1:C:1923:ILE:HD11	2.44	0.52
1:H:2336:SER:HB2	1:H:2506:ASP:OD1	2.10	0.52
1:D:1413:ASN:OD1	1:D:1414:THR:N	2.42	0.52
1:F:1114:SER:OG	1:F:1120:GLU:HB2	2.09	0.52
1:C:719:GLN:OE1	1:C:724:ALA:HB1	2.09	0.52
1:I:371:LYS:HB3	1:I:373:ASN:O	2.10	0.52
1:H:59:ASN:OD1	1:H:1927:ARG:NH2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:69:ARG:HD3	1:A:83:LEU:O	2.09	0.52
1:I:854:GLN:HG2	1:I:862:VAL:HG12	1.90	0.52
1:A:892:GLN:HE22	1:B:541:GLY:C	2.13	0.52
1:B:1225:LYS:HE3	1:B:1252:GLN:HG2	1.92	0.52
1:G:2405:SER:N	1:H:2382:ASP:OD2	2.43	0.52
1:D:67:LEU:O	1:D:103:TYR:OH	2.26	0.52
1:E:1254:ASP:O	1:E:1256:LEU:N	2.43	0.52
1:B:161:THR:C	1:B:163:SER:H	2.14	0.52
1:A:2431:ALA:HB1	1:A:2484:LEU:HD21	1.92	0.52
1:A:2338:ALA:HB2	1:A:2506:ASP:HB3	1.92	0.52
1:F:347:PRO:HA	1:F:353:TYR:HD1	1.75	0.52
1:A:161:THR:HG22	1:A:981:ILE:O	2.10	0.52
1:C:778:LEU:HA	1:C:781:THR:HG22	1.91	0.52
1:A:1251:ASN:HD22	1:A:1262:ALA:HB1	1.74	0.52
1:B:520:ASN:HD21	1:B:528:TYR:HB2	1.75	0.52
1:H:1995:LEU:HB3	1:I:2235:GLN:HG2	1.92	0.52
1:G:1050:ARG:HG3	1:G:1838:ASP:CG	2.31	0.52
1:G:278:MET:SD	1:G:1478:GLY:HA2	2.50	0.52
1:I:1836:ASP:HB3	1:I:1839:ALA:HB3	1.91	0.52
1:A:733:TRP:CD2	1:A:752:ILE:HD12	2.45	0.52
1:B:57:LYS:HB3	1:B:1832:LEU:HD12	1.91	0.52
1:I:733:TRP:CD2	1:I:752:ILE:HD12	2.44	0.52
1:I:733:TRP:NE1	1:I:748:THR:HB	2.25	0.52
1:B:1289:ASN:HB2	1:B:1306:TYR:CE2	2.45	0.52
1:J:565:LEU:HB2	1:J:602:ILE:HD13	1.92	0.52
1:B:531:THR:OG1	1:B:580:ASN:ND2	2.43	0.51
1:B:233:GLN:HB3	1:B:479:PHE:CD2	2.45	0.51
1:J:714:TRP:NE1	1:J:794:PRO:HG2	2.24	0.51
1:H:714:TRP:NE1	1:H:794:PRO:HG2	2.26	0.51
1:H:998:ASN:OD1	1:H:1026:LYS:NZ	2.43	0.51
1:F:1149:CYS:HB2	1:F:1209:TRP:HB3	1.92	0.51
1:D:663:LEU:HD13	1:D:668:LYS:HE3	1.92	0.51
1:I:2422:LEU:O	1:I:2423:LEU:HD23	2.11	0.51
1:G:1380:LYS:O	1:G:1383:ASP:HB2	2.10	0.51
1:A:1503:LYS:HB2	1:A:1552:ASP:HB2	1.92	0.51
1:J:2033:LEU:CD1	1:J:2266:TYR:HA	2.40	0.51
1:I:1367:GLN:OE1	1:I:1391:LEU:HD12	2.09	0.51
1:G:1117:ASP:OD1	1:G:1118:ALA:N	2.43	0.51
1:H:161:THR:C	1:H:163:SER:H	2.13	0.51
1:C:1114:SER:OG	1:C:1120:GLU:HB2	2.10	0.51
1:G:830:LEU:HD21	1:G:835:LEU:HD12	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1633:GLN:HB3	1:E:1755:SER:HB2	1.91	0.51
1:A:2126:THR:HG23	1:E:1204:ARG:HH21	1.75	0.51
1:D:964:ARG:NH1	1:D:976:GLN:HG2	2.25	0.51
1:I:464:VAL:HG21	1:I:477:LYS:HD2	1.92	0.51
1:I:441:ASN:OD1	1:I:445:ARG:NH1	2.43	0.51
1:E:366:SER:N	1:E:413:VAL:O	2.42	0.51
1:J:432:ASN:HB3	1:J:435:SER:HB3	1.91	0.51
1:H:1380:LYS:HD2	1:H:1414:THR:OG1	2.10	0.51
1:F:776:PHE:O	1:F:780:VAL:HG12	2.10	0.51
1:I:1289:ASN:OD1	1:I:1308:GLU:HG3	2.10	0.51
1:B:211:ILE:HG21	1:B:239:ILE:HD13	1.92	0.51
1:C:557:ILE:HG22	1:C:558:ASP:O	2.10	0.51
1:B:2448:LEU:HB2	1:B:2472:PHE:HE1	1.76	0.51
1:G:1868:TYR:O	1:G:1871:LEU:HD22	2.10	0.51
1:I:2042:ASN:HD21	1:I:2046:ARG:HD2	1.74	0.51
1:C:1295:ASP:N	1:C:1301:ARG:HG3	2.25	0.51
1:C:2413:LYS:N	1:C:2512:ARG:O	2.43	0.51
1:A:1357:LEU:HB3	1:A:1530:TYR:HB2	1.92	0.51
1:J:141:ARG:NH2	1:J:1005:GLU:OE1	2.43	0.51
1:D:2111:GLU:OE2	1:D:2188:ARG:NH2	2.38	0.51
1:H:467:GLN:N	1:H:467:GLN:OE1	2.43	0.51
1:C:111:SER:OG	1:C:1951:GLN:OE1	2.16	0.51
1:A:2244:LYS:HE2	1:A:2246:SER:HB3	1.93	0.51
1:B:232:HIS:HB2	1:B:903:ILE:HG12	1.92	0.51
1:J:1023:LYS:HG2	1:J:1024:TYR:CE1	2.45	0.51
1:D:1168:TYR:CD2	1:D:1202:HIS:HB3	2.46	0.51
1:D:1024:TYR:OH	1:D:1835:VAL:HG21	2.10	0.51
1:G:896:ALA:O	1:G:900:LEU:HG	2.10	0.51
1:H:1658:GLU:HB3	1:H:1712:LYS:HB3	1.91	0.51
1:F:2224:LYS:HE2	1:F:2228:LYS:HE3	1.91	0.51
1:F:488:TYR:CD2	1:F:597:ILE:HB	2.46	0.51
1:B:181:ASN:OD1	1:B:182:TYR:N	2.43	0.51
1:I:353:TYR:CE2	1:I:397:LEU:HB2	2.45	0.51
1:D:2183:GLU:OE1	1:D:2186:ARG:NH1	2.44	0.51
1:C:808:ALA:O	1:C:812:ASN:ND2	2.40	0.51
1:C:1178:THR:O	1:D:2146:GLY:HA3	2.10	0.51
1:F:832:ALA:HB2	1:F:868:PHE:CZ	2.45	0.51
1:E:417:GLY:N	1:E:418:SER:HA	2.25	0.51
1:B:192:PHE:HD2	1:B:198:THR:HG21	1.75	0.51
1:I:1542:LEU:HD22	1:I:1549:ALA:HB1	1.92	0.51
1:G:2229:THR:O	1:G:2233:GLN:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:565:LEU:HB2	1:H:602:ILE:HD13	1.92	0.51
1:C:181:ASN:OD1	1:C:182:TYR:N	2.41	0.51
1:I:1760:PHE:CG	1:I:1820:PRO:HG3	2.44	0.51
1:F:1786:GLU:OE2	1:H:2186:ARG:NH2	2.43	0.51
1:G:1413:ASN:OD1	1:G:1414:THR:N	2.43	0.51
1:H:2459:GLN:HG3	1:H:2460:PHE:O	2.09	0.51
1:A:1122:TYR:HD2	1:A:1146:LYS:HA	1.76	0.51
1:C:1384:LYS:O	1:C:1410:TYR:HB2	2.10	0.51
1:B:745:ALA:HB3	1:B:749:GLN:OE1	2.11	0.51
1:I:465:ASN:HD22	1:I:471:ASN:HB2	1.73	0.51
1:I:465:ASN:ND2	1:I:471:ASN:HB2	2.25	0.51
1:J:1382:GLY:H	1:J:1491:THR:HB	1.75	0.51
1:D:86:ASN:HB3	1:E:1453:GLY:HA3	1.92	0.51
1:B:1355:PRO:HG2	1:B:1500:ILE:HD13	1.92	0.51
1:H:1104:ASP:HA	1:H:1598:TRP:HZ2	1.74	0.51
1:I:944:ALA:HA	1:I:964:ARG:NH2	2.25	0.51
1:I:1542:LEU:HD23	1:I:1543:ASN:O	2.11	0.51
1:C:586:SER:O	1:C:590:ILE:HG13	2.11	0.51
1:G:247:LEU:O	1:G:251:LEU:HG	2.11	0.51
1:E:641:LEU:HD21	1:E:651:LEU:HD22	1.91	0.51
1:B:1061:LEU:HD13	1:B:1778:LEU:HD11	1.92	0.51
1:H:1971:ARG:NH2	1:I:974:ASP:OD2	2.27	0.51
1:I:977:VAL:HG13	1:I:981:ILE:HD12	1.91	0.51
1:B:612:VAL:HG11	1:B:614:GLU:HG2	1.93	0.51
1:F:890:ALA:HB2	1:G:559:ASP:HB2	1.92	0.51
1:F:2117:LEU:HD21	1:J:1062:GLN:NE2	2.25	0.51
1:I:147:SER:HA	1:I:1906:ARG:HE	1.75	0.51
1:J:2281:ARG:HG2	1:J:2289:ALA:HB3	1.91	0.51
1:F:1138:ALA:HB2	1:F:1761:SER:O	2.10	0.51
1:G:1238:GLY:O	1:G:1305:ARG:HG3	2.10	0.51
1:A:2409:ILE:HD11	1:A:2516:LYS:HG3	1.92	0.51
1:I:90:ILE:HA	1:J:1452:ILE:HD12	1.92	0.51
1:B:142:ARG:HD2	1:B:971:LEU:O	2.11	0.51
1:H:2512:ARG:HB3	1:I:2460:PHE:CE1	2.45	0.51
1:A:1868:TYR:O	1:A:1871:LEU:HD22	2.11	0.51
1:E:951:ILE:HD11	1:E:967:LEU:HB2	1.92	0.51
1:F:1061:LEU:HD13	1:F:1778:LEU:HD11	1.92	0.51
1:D:1604:ARG:HH12	1:D:1634:GLU:HB3	1.75	0.51
1:B:2122:ALA:HB1	1:B:2175:GLU:HG2	1.92	0.51
1:J:1124:ARG:HD2	1:J:1144:TRP:CZ2	2.46	0.51
1:I:1517:VAL:HG11	1:I:1520:GLN:HG3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1111:ILE:HG13	1:F:1160:PRO:HG3	1.92	0.51
1:D:2102:LEU:HB3	1:D:2192:TRP:CZ3	2.45	0.51
1:F:2161:THR:O	1:F:2165:MET:HG2	2.10	0.51
1:D:2004:GLN:H	1:D:2300:THR:CG2	2.24	0.51
1:C:2027:ARG:NH2	1:C:2318:GLU:OE1	2.43	0.51
1:H:1238:GLY:O	1:H:1305:ARG:HG3	2.10	0.51
1:I:2229:THR:O	1:I:2233:GLN:HG2	2.10	0.51
1:A:564:ARG:HH22	1:E:844:ASN:HB2	1.76	0.51
1:E:1630:GLN:HG2	1:E:1819:ARG:CB	2.39	0.51
1:A:1104:ASP:HA	1:A:1598:TRP:CZ2	2.40	0.51
1:C:378:LEU:HB3	1:C:395:ILE:HD13	1.93	0.51
1:D:663:LEU:HD23	1:D:749:GLN:HE22	1.75	0.51
1:H:778:LEU:HD22	1:H:786:PHE:HE1	1.75	0.51
1:A:2147:PHE:HE2	1:E:2147:PHE:CD2	2.28	0.51
1:E:2291:PHE:CD2	1:E:2317:MET:HG3	2.45	0.51
1:A:158:GLU:HB3	1:A:982:LYS:HE2	1.92	0.51
1:J:1238:GLY:O	1:J:1305:ARG:HG3	2.10	0.51
1:H:1163:TYR:CD2	1:H:1245:LEU:HB3	2.46	0.51
1:A:361:ASN:OD1	1:A:362:PHE:N	2.44	0.51
1:D:1972:HIS:HA	1:E:978:SER:OG	2.11	0.51
1:E:1097:TYR:HB2	1:E:1160:PRO:O	2.11	0.51
1:C:101:SER:HA	1:D:1429:THR:HG21	1.93	0.51
1:G:2312:LEU:O	1:G:2316:GLN:HG3	2.10	0.51
1:E:1237:ALA:O	1:E:1245:LEU:HG	2.10	0.51
1:I:176:GLU:HG2	1:I:954:VAL:HG22	1.92	0.51
1:A:2280:TYR:OH	1:A:2324:ARG:NH1	2.43	0.51
1:I:2027:ARG:NH2	1:I:2318:GLU:OE1	2.43	0.51
1:I:450:THR:HG21	1:I:478:VAL:HG11	1.92	0.51
1:G:687:ASP:HB3	1:G:690:HIS:HB2	1.92	0.51
1:F:1524:SER:OG	1:J:1685:ASN:ND2	2.43	0.51
1:H:1405:TYR:HB2	1:H:1425:HIS:HB3	1.93	0.51
1:G:1378:TYR:O	1:G:1421:ARG:NH1	2.43	0.51
1:J:1295:ASP:N	1:J:1301:ARG:HG3	2.26	0.51
1:I:42:TRP:CH2	1:I:1321:ASP:HB2	2.46	0.51
1:F:1321:ASP:HA	1:J:1810:GLN:NE2	2.22	0.51
1:D:1394:ASN:ND2	1:D:1480:ALA:HB1	2.25	0.51
1:H:1711:PHE:HE2	1:H:1743:HIS:CE1	2.29	0.51
1:H:2393:PHE:HB3	1:H:2477:ILE:O	2.10	0.51
1:A:534:GLU:O	1:A:580:ASN:HB2	2.09	0.51
1:A:2187:ARG:HD3	1:A:2190:GLN:OE1	2.11	0.51
1:A:2364:GLY:HA2	1:A:2377:PHE:CE2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1138:ALA:HA	1:A:1141:TRP:HD1	1.75	0.51
1:J:1071:ALA:HA	1:J:1074:VAL:HG12	1.91	0.51
1:C:170:LEU:HD13	1:C:182:TYR:HD2	1.75	0.51
1:A:1268:TYR:HE1	1:A:1278:MET:HG3	1.76	0.51
1:F:627:LEU:O	1:F:631:ILE:HG13	2.11	0.51
1:H:102:GLN:HE22	1:H:1901:THR:H	1.57	0.51
1:F:2125:THR:HA	1:F:2167:PHE:HE2	1.75	0.51
1:A:28:SER:OG	1:A:31:GLU:HG3	2.11	0.51
1:H:2435:TYR:HE2	1:H:2437:ASP:HB2	1.74	0.51
1:B:1736:ASN:O	1:B:1739:SER:HB2	2.11	0.51
1:A:978:SER:OG	1:E:1972:HIS:HA	2.10	0.51
1:F:1257:ASP:OD1	1:F:1258:SER:N	2.39	0.51
1:E:1639:LYS:HB2	1:E:1694:LEU:O	2.11	0.51
1:C:612:VAL:N	1:C:613:GLY:HA2	2.25	0.51
1:J:1355:PRO:HD2	1:J:1532:PHE:HB2	1.93	0.51
1:B:336:THR:HG23	1:B:527:GLN:HG2	1.92	0.51
1:C:1642:TYR:OH	1:C:1756:GLU:HG3	2.10	0.51
1:A:1800:TRP:CZ2	1:A:1802:PRO:HG3	2.46	0.51
1:J:1865:ASP:OD1	1:J:1966:ARG:NH1	2.44	0.51
1:C:195:SER:HB3	1:C:198:THR:HG21	1.93	0.51
1:G:1179:LYS:HE3	1:G:1180:GLN:HG2	1.92	0.51
1:E:1390:SER:HB3	1:E:1484:SER:HB2	1.91	0.51
1:F:493:GLU:OE1	1:F:517:ARG:NH1	2.42	0.51
1:C:896:ALA:O	1:C:900:LEU:HG	2.11	0.51
1:I:2494:LYS:HD2	1:I:2494:LYS:H	1.76	0.51
1:H:2422:LEU:H	1:H:2503:THR:HG21	1.75	0.51
1:B:1024:TYR:CD2	1:B:1034:VAL:HG21	2.45	0.51
1:J:1660:TRP:HH2	1:J:1927:ARG:O	1.94	0.51
1:F:264:TYR:HA	1:F:438:LEU:HD21	1.93	0.51
1:F:2088:SER:OG	1:G:2205:GLN:OE1	2.28	0.51
1:B:143:PRO:HA	1:B:146:LYS:HE2	1.93	0.51
1:A:789:ALA:HB3	1:A:792:ALA:HB3	1.92	0.51
1:B:2420:PRO:HD2	1:B:2506:ASP:O	2.10	0.51
1:A:271:ILE:CG2	1:A:952:ARG:HH22	2.23	0.51
1:H:1497:LYS:O	1:H:1499:GLN:HG3	2.11	0.51
1:D:2229:THR:O	1:D:2233:GLN:HG2	2.11	0.51
1:E:832:ALA:HB2	1:E:868:PHE:CE2	2.45	0.51
1:D:118:TYR:HB2	1:D:1031:TRP:CE3	2.46	0.51
1:E:1110:PHE:HE1	1:E:1126:VAL:HG12	1.76	0.51
1:C:247:LEU:O	1:C:251:LEU:HG	2.11	0.51
1:D:1411:SER:HB3	1:D:1419:GLN:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1704:HIS:CD2	1:B:1726:VAL:HG23	2.45	0.51
1:F:702:LEU:O	1:F:767:HIS:NE2	2.41	0.51
1:J:1616:ARG:HH22	1:J:1628:GLU:CD	2.14	0.51
1:E:1130:LYS:HB2	1:E:1140:ALA:HB2	1.92	0.51
1:B:1204:ARG:HH21	1:C:2126:THR:HG23	1.76	0.51
1:D:255:ILE:HD12	1:D:439:LYS:HG3	1.93	0.51
1:D:1995:LEU:HD13	1:E:2231:GLN:NE2	2.25	0.51
1:B:832:ALA:HB2	1:B:868:PHE:CZ	2.45	0.51
1:J:251:LEU:HB3	1:J:470:ILE:HG21	1.93	0.51
1:G:1143:GLU:HG2	1:G:1144:TRP:O	2.11	0.51
1:F:81:ALA:N	1:F:1816:TRP:HH2	2.05	0.51
1:E:2046:ARG:HB3	1:E:2251:TYR:HE2	1.76	0.51
1:H:347:PRO:HA	1:H:353:TYR:HD1	1.76	0.51
1:F:2486:PHE:HB3	1:F:2497:GLN:NE2	2.25	0.51
1:I:453:SER:O	1:I:457:LEU:HD12	2.11	0.51
1:B:733:TRP:HE1	1:B:748:THR:HB	1.75	0.51
1:B:2364:GLY:HA2	1:B:2377:PHE:CE2	2.44	0.51
1:B:1097:TYR:HB2	1:B:1160:PRO:O	2.11	0.51
1:F:1333:TYR:HD2	1:F:1358:ARG:HD3	1.76	0.51
1:J:111:SER:HB2	1:J:1951:GLN:HB2	1.92	0.51
1:A:1595:TYR:HB3	1:A:1637:LEU:HD22	1.93	0.51
1:F:810:TRP:HZ2	1:F:835:LEU:HD11	1.75	0.51
1:B:1257:ASP:OD1	1:B:1258:SER:N	2.39	0.51
1:G:745:ALA:HB3	1:G:749:GLN:OE1	2.10	0.51
1:A:2331:VAL:HG21	1:A:2402:TYR:HE2	1.76	0.51
1:G:467:GLN:N	1:G:467:GLN:OE1	2.44	0.51
1:F:337:ASN:HB3	1:F:339:TYR:O	2.10	0.51
1:H:1124:ARG:HD2	1:H:1144:TRP:CZ2	2.46	0.51
1:H:1955:VAL:O	1:H:1958:ASN:HB3	2.11	0.51
1:A:2422:LEU:H	1:A:2503:THR:HG21	1.75	0.51
1:A:1783:LEU:HD13	1:A:1791:GLU:HB3	1.93	0.51
1:J:1380:LYS:O	1:J:1383:ASP:HB2	2.11	0.51
1:J:1294:PHE:CD1	1:J:1301:ARG:HB2	2.46	0.51
1:C:662:THR:N	1:C:753:VAL:HG11	2.17	0.51
1:B:271:ILE:HG23	1:B:952:ARG:HH22	1.76	0.51
1:C:1223:GLU:HB2	1:C:1265:GLN:HE22	1.74	0.51
1:E:1168:TYR:CD2	1:E:1200:LEU:HD21	2.44	0.51
1:G:1294:PHE:HA	1:G:1301:ARG:HB2	1.93	0.51
1:A:1421:ARG:HD2	1:A:1456:TYR:CD2	2.46	0.51
1:G:2433:LEU:HD22	1:G:2482:LEU:HD21	1.93	0.51
1:D:2098:SER:HB3	1:E:2194:ILE:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:832:ALA:C	1:F:834:GLN:H	2.14	0.51
1:A:1248:MET:HE1	1:A:1286:TYR:HB2	1.92	0.51
1:I:687:ASP:O	1:I:691:VAL:HG23	2.11	0.51
1:F:2359:LYS:O	1:F:2363:GLN:HG2	2.11	0.51
1:I:852:GLN:HB3	1:I:880:TRP:CZ3	2.46	0.51
1:H:28:SER:OG	1:H:31:GLU:HG3	2.11	0.51
1:A:1459:ASP:HB3	1:A:1462:ASN:HB3	1.93	0.51
1:H:2229:THR:O	1:H:2233:GLN:HG2	2.11	0.51
1:E:1122:TYR:CE2	1:E:1146:LYS:HG2	2.46	0.51
1:J:1696:ASP:N	1:J:1696:ASP:OD2	2.42	0.51
1:G:319:ASN:HB3	1:G:322:ASP:HB2	1.92	0.51
1:E:901:ASP:HB3	1:E:904:GLN:HB3	1.93	0.51
1:E:962:LYS:HG3	1:E:1401:LYS:HG2	1.93	0.50
1:C:2393:PHE:HE1	1:C:2482:LEU:HB2	1.76	0.50
1:D:1093:VAL:N	1:D:1594:GLN:HE22	2.03	0.50
1:F:534:GLU:O	1:F:580:ASN:HB2	2.10	0.50
1:I:1386:ILE:HB	1:I:1408:TYR:HB3	1.93	0.50
1:F:1267:LEU:CD2	1:F:1275:SER:HB2	2.39	0.50
1:F:1972:HIS:HB2	1:F:1974:LEU:HD13	1.93	0.50
1:B:2348:ASN:O	1:B:2350:PRO:HD3	2.11	0.50
1:B:417:GLY:N	1:B:418:SER:HA	2.25	0.50
1:A:1168:TYR:CD2	1:A:1202:HIS:HB3	2.46	0.50
1:F:124:ARG:HB2	1:F:1911:ALA:HB1	1.93	0.50
1:G:905:SER:HB2	1:G:910:PRO:HD3	1.91	0.50
1:G:1268:TYR:CD1	1:G:1278:MET:HG3	2.47	0.50
1:A:340:GLN:HA	1:A:360:LYS:HB3	1.93	0.50
1:G:1381:LEU:HD13	1:G:1382:GLY:N	2.26	0.50
1:J:1805:TYR:OH	1:J:1817:ASN:HB2	2.11	0.50
1:A:314:ILE:HD13	1:A:329:ARG:HG3	1.92	0.50
1:F:1168:TYR:CD2	1:F:1202:HIS:HB3	2.46	0.50
1:H:1784:LEU:HD21	1:H:1859:LEU:HA	1.93	0.50
1:B:1293:GLN:O	1:B:1301:ARG:HB3	2.12	0.50
1:F:1321:ASP:OD2	1:F:1322:TYR:N	2.44	0.50
1:B:2398:ILE:HB	1:B:2477:ILE:HG21	1.92	0.50
1:I:1113:LEU:HD13	1:I:1121:TYR:CE2	2.46	0.50
1:I:1800:TRP:HB2	1:I:1816:TRP:CD1	2.46	0.50
1:B:2046:ARG:HB3	1:B:2251:TYR:CE2	2.46	0.50
1:A:1793:ASN:O	1:A:1797:LYS:HB2	2.12	0.50
1:H:598:HIS:CB	1:H:600:LEU:HD13	2.41	0.50
1:J:1284:ASN:HA	1:J:1287:ARG:HD2	1.93	0.50
1:G:1172:LEU:HD11	1:G:1221:ILE:HD11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1110:PHE:HE1	1:D:1126:VAL:HG12	1.76	0.50
1:H:231:MET:HG3	1:H:898:VAL:HG23	1.92	0.50
1:E:733:TRP:CD2	1:E:752:ILE:HD12	2.45	0.50
1:I:464:VAL:CG2	1:I:477:LYS:HD2	2.41	0.50
1:I:1790:ASP:OD1	1:I:1863:ARG:NH2	2.44	0.50
1:A:2172:MET:HB2	1:E:2121:ALA:HB2	1.92	0.50
1:J:850:SER:O	1:J:854:GLN:HG3	2.11	0.50
1:G:2004:GLN:H	1:G:2300:THR:HG23	1.76	0.50
1:G:1475:ASP:HB2	1:G:1479:THR:HB	1.92	0.50
1:E:1220:LYS:HG2	1:E:1265:GLN:HB3	1.94	0.50
1:J:458:GLU:OE1	1:J:506:ARG:NH2	2.39	0.50
1:A:2177:ASP:OD1	1:E:2118:ARG:NH2	2.44	0.50
1:C:1328:TYR:HB2	1:C:1368:LYS:HG2	1.94	0.50
1:F:965:ASP:O	1:F:968:TYR:HB3	2.12	0.50
1:F:604:GLU:HB3	1:F:648:VAL:HG21	1.93	0.50
1:C:2312:LEU:O	1:C:2316:GLN:HG3	2.11	0.50
1:B:1955:VAL:O	1:B:1958:ASN:HB3	2.11	0.50
1:C:1390:SER:HB3	1:C:1484:SER:HB2	1.93	0.50
1:G:1057:MET:HB2	1:G:1770:GLU:OE2	2.10	0.50
1:H:1404:PHE:HB2	1:H:1473:MET:HE3	1.92	0.50
1:J:2247:ASN:HB2	1:J:2250:LEU:H	1.76	0.50
1:D:1294:PHE:HA	1:D:1301:ARG:CB	2.40	0.50
1:E:595:ALA:HB2	1:E:605:LEU:HG	1.94	0.50
1:E:930:GLN:HA	1:E:933:THR:HG22	1.93	0.50
1:H:1157:THR:HG21	1:H:1172:LEU:HB3	1.94	0.50
1:E:1321:ASP:OD2	1:E:1322:TYR:N	2.44	0.50
1:B:125:GLU:HB3	1:B:1018:PHE:CE1	2.46	0.50
1:D:1178:THR:HB	1:E:2146:GLY:N	2.26	0.50
1:H:1111:ILE:HD11	1:H:1160:PRO:HB3	1.94	0.50
1:A:1719:THR:HG23	1:A:1721:TRP:HB2	1.92	0.50
1:D:1514:ASP:OD2	1:D:1515:LYS:N	2.44	0.50
1:E:1257:ASP:OD1	1:E:1258:SER:N	2.36	0.50
1:I:181:ASN:OD1	1:I:182:TYR:N	2.44	0.50
1:E:467:GLN:N	1:E:467:GLN:OE1	2.44	0.50
1:C:1711:PHE:HE2	1:C:1743:HIS:ND1	2.09	0.50
1:A:1159:ARG:NH1	1:A:1294:PHE:CE1	2.80	0.50
1:E:1227:GLU:CG	1:E:1230:ARG:HG2	2.41	0.50
1:A:612:VAL:N	1:A:613:GLY:HA2	2.25	0.50
1:H:2329:LEU:HB2	1:H:2515:ILE:HB	1.93	0.50
1:C:1868:TYR:OH	1:C:1974:LEU:O	2.27	0.50
1:F:2486:PHE:HB3	1:F:2497:GLN:HE22	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:733:TRP:NE1	1:D:748:THR:HB	2.26	0.50
1:G:1491:THR:HG21	1:G:1525:PHE:CZ	2.46	0.50
1:G:170:LEU:HB3	1:G:182:TYR:CD2	2.47	0.50
1:A:153:GLN:O	1:A:157:ILE:HG12	2.11	0.50
1:E:2039:THR:O	1:E:2043:ILE:HG12	2.12	0.50
1:C:353:TYR:HE2	1:C:402:ILE:HD11	1.77	0.50
1:D:1676:ILE:HG12	1:D:1690:LEU:HD13	1.92	0.50
1:E:1930:ILE:HB	1:E:1931:PRO:HD3	1.92	0.50
1:H:2337:LEU:HD22	1:H:2391:VAL:HG21	1.94	0.50
1:B:896:ALA:O	1:B:900:LEU:HG	2.12	0.50
1:H:557:ILE:HG22	1:H:558:ASP:O	2.10	0.50
1:H:1007:ASN:OD1	1:H:1008:ALA:N	2.44	0.50
1:B:1213:ILE:HD13	1:B:1273:MET:HG3	1.93	0.50
1:F:15:GLN:HB3	1:F:16:CYS:HB2	1.92	0.50
1:C:1024:TYR:OH	1:C:1835:VAL:HG21	2.11	0.50
1:E:2106:ASN:ND2	1:E:2189:ARG:HB2	2.27	0.50
1:I:1139:ASN:HD21	1:I:1829:SER:N	2.09	0.50
1:A:1868:TYR:OH	1:A:1974:LEU:O	2.30	0.50
1:F:1357:LEU:HD12	1:F:1555:PHE:HB3	1.93	0.50
1:A:2364:GLY:HA2	1:A:2377:PHE:HE2	1.76	0.50
1:E:772:ASN:HB3	1:E:775:ALA:HB3	1.92	0.50
1:D:1248:MET:HE1	1:D:1286:TYR:HB2	1.93	0.50
1:C:1178:THR:HB	1:D:2146:GLY:N	2.27	0.50
1:G:1248:MET:HE3	1:G:1286:TYR:HD2	1.75	0.50
1:J:1497:LYS:HB3	1:J:1558:PHE:HB2	1.93	0.50
1:A:308:TYR:CD1	1:A:313:LEU:HB2	2.46	0.50
1:C:1411:SER:HA	1:C:1415:SER:CB	2.40	0.50
1:G:1807:VAL:HB	1:G:1812:GLN:OE1	2.11	0.50
1:I:2187:ARG:HD3	1:I:2190:GLN:OE1	2.11	0.50
1:D:65:ARG:NH1	1:D:88:GLU:OE2	2.43	0.50
1:D:1069:LEU:O	1:D:1788:ASN:ND2	2.45	0.50
1:B:1636:GLN:O	1:B:1637:LEU:HG	2.11	0.50
1:D:161:THR:C	1:D:163:SER:H	2.15	0.50
1:D:170:LEU:HD13	1:D:182:TYR:HD2	1.76	0.50
1:B:2068:LEU:CD1	1:B:2227:LEU:HB3	2.42	0.50
1:I:280:GLU:HG2	1:I:1399:SER:HB2	1.94	0.50
1:I:2142:PRO:HB3	1:I:2150:GLY:HA3	1.93	0.50
1:F:1475:ASP:HB2	1:F:1479:THR:HB	1.93	0.50
1:F:1295:ASP:H	1:F:1301:ARG:HG3	1.77	0.50
1:I:1178:THR:O	1:J:2146:GLY:HA3	2.11	0.50
1:E:1868:TYR:HE1	1:E:1970:LEU:HG	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1291:TYR:C	1:H:1293:GLN:H	2.14	0.50
1:H:1268:TYR:HE1	1:H:1278:MET:HG3	1.76	0.50
1:E:130:HIS:CE1	1:E:996:TYR:HH	2.27	0.50
1:J:1711:PHE:HE2	1:J:1743:HIS:NE2	2.09	0.50
1:H:1797:LYS:O	1:H:1805:TYR:OH	2.20	0.50
1:A:998:ASN:OD1	1:A:1026:LYS:NZ	2.45	0.50
1:I:102:GLN:O	1:I:1949:LEU:HD23	2.11	0.50
1:A:714:TRP:CE3	1:A:762:LEU:HD22	2.46	0.50
1:A:714:TRP:NE1	1:A:794:PRO:HG2	2.26	0.50
1:C:142:ARG:NH1	1:C:144:ASP:OD2	2.45	0.50
1:C:195:SER:O	1:C:198:THR:HG22	2.11	0.50
1:A:2331:VAL:HG23	1:B:2451:SER:OG	2.10	0.50
1:G:2059:GLN:HB2	1:H:2233:GLN:CD	2.32	0.50
1:G:250:ILE:HG23	1:G:267:ASN:HD21	1.76	0.50
1:J:1599:GLN:HB3	1:J:1674:HIS:CE1	2.47	0.50
1:F:1919:HIS:NE2	1:F:1923:ILE:HD11	2.27	0.50
1:J:1634:GLU:HG3	1:J:1635:PRO:HD2	1.93	0.50
1:C:143:PRO:HA	1:C:146:LYS:HE2	1.93	0.50
1:I:406:PHE:CE1	1:I:426:PHE:HB2	2.46	0.50
1:G:663:LEU:HD13	1:G:668:LYS:HE3	1.93	0.50
1:H:1198:LEU:O	1:H:1215:PHE:N	2.37	0.50
1:B:288:LEU:HD21	1:B:448:ARG:HD2	1.94	0.50
1:E:1418:ASN:ND2	1:E:1459:ASP:O	2.45	0.50
1:D:2099:TYR:CD2	1:D:2195:GLN:HB3	2.45	0.50
1:C:1381:LEU:HD13	1:C:1382:GLY:N	2.25	0.50
1:J:641:LEU:HD21	1:J:651:LEU:HD22	1.94	0.50
1:C:1858:ASP:OD1	1:C:1959:TYR:OH	2.30	0.50
1:F:42:TRP:O	1:F:42:TRP:HD1	1.95	0.50
1:E:2025:ASN:OD1	1:E:2272:ARG:HD2	2.12	0.50
1:B:1261:ASN:H	1:B:1287:ARG:NH1	2.08	0.50
1:A:192:PHE:CZ	1:A:194:PRO:HG2	2.47	0.50
1:E:2009:LEU:HD13	1:E:2294:PRO:HB3	1.93	0.50
1:I:1386:ILE:HG13	1:I:1410:TYR:CE1	2.43	0.50
1:D:1257:ASP:CG	1:D:1258:SER:H	2.15	0.50
1:C:1639:LYS:HB2	1:C:1694:LEU:O	2.12	0.50
1:G:1126:VAL:HB	1:G:1141:TRP:CZ3	2.47	0.50
1:C:714:TRP:CE3	1:C:762:LEU:HD22	2.47	0.50
1:J:2377:PHE:HE1	1:J:2387:LEU:HD12	1.77	0.50
1:E:733:TRP:HE1	1:E:748:THR:HB	1.77	0.50
1:I:866:ASN:ND2	1:I:873:SER:OG	2.45	0.50
1:G:23:ASP:O	1:G:26:HIS:ND1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:442:LYS:HG3	1:I:470:ILE:HD12	1.93	0.50
1:D:1060:LEU:HD11	1:D:1775:THR:HG23	1.94	0.50
1:I:1544:PHE:CE2	1:I:1576:LEU:HB2	2.47	0.50
1:B:1475:ASP:HB2	1:B:1479:THR:HB	1.93	0.50
1:H:2312:LEU:O	1:H:2316:GLN:HG3	2.11	0.50
1:C:2308:GLU:N	1:C:2308:GLU:OE1	2.37	0.50
1:I:1295:ASP:N	1:I:1301:ARG:HG3	2.27	0.50
1:F:1264:MET:HE3	1:F:1287:ARG:HG3	1.93	0.50
1:H:1650:TYR:HE1	1:H:1659:ARG:HH21	1.59	0.50
1:F:1805:TYR:HD2	1:F:1814:TYR:O	1.94	0.50
1:F:2198:ASN:ND2	1:J:2095:ARG:HD3	2.25	0.50
1:C:1441:ALA:HB1	1:C:1443:ARG:HG2	1.94	0.50
1:J:1675:ILE:HD11	1:J:1678:SER:HB3	1.94	0.50
1:B:725:MET:HG2	1:B:755:TYR:HB2	1.94	0.50
1:G:709:HIS:O	1:G:713:LEU:HG	2.12	0.50
1:C:1783:LEU:HD13	1:C:1791:GLU:HB3	1.92	0.50
1:B:2281:ARG:HG2	1:B:2289:ALA:HB3	1.94	0.50
1:E:200:TYR:HE1	1:E:941:SER:HG	1.58	0.50
1:J:1770:GLU:HA	1:J:1774:TYR:HB2	1.93	0.50
1:I:358:LYS:HB2	1:I:390:GLU:HG2	1.94	0.50
1:C:847:LEU:O	1:C:851:ILE:HG13	2.12	0.50
1:G:2273:CYS:HB3	1:G:2292:ILE:HD13	1.94	0.50
1:A:42:TRP:CH2	1:A:1321:ASP:HB2	2.47	0.50
1:I:1268:TYR:CD1	1:I:1278:MET:HG3	2.47	0.50
1:A:1121:TYR:O	1:A:1147:ILE:HG12	2.12	0.50
1:A:1147:ILE:HD11	1:A:1151:ILE:HD12	1.94	0.50
1:E:481:THR:O	1:E:485:MET:HG2	2.12	0.50
1:C:41:SER:HB3	1:C:44:GLU:OE1	2.11	0.50
1:H:1505:GLY:HA2	1:H:1542:LEU:HA	1.94	0.50
1:H:1386:ILE:HB	1:H:1408:TYR:HB3	1.94	0.50
1:E:36:VAL:HG12	1:E:40:LEU:HB2	1.94	0.50
1:J:873:SER:O	1:J:877:ILE:HG13	2.12	0.50
1:A:2497:GLN:O	1:A:2501:LEU:HG	2.12	0.50
1:I:627:LEU:O	1:I:631:ILE:HG13	2.12	0.50
1:D:1355:PRO:HB3	1:D:1555:PHE:CZ	2.47	0.50
1:D:714:TRP:CD1	1:D:794:PRO:HG2	2.46	0.50
1:I:158:GLU:HB3	1:I:982:LYS:HE2	1.94	0.50
1:I:825:PHE:HD1	1:I:830:LEU:HD13	1.77	0.50
1:I:1435:GLU:O	1:I:1473:MET:HA	2.12	0.50
1:H:564:ARG:O	1:H:568:ILE:HG13	2.12	0.49
1:A:2398:ILE:HB	1:A:2477:ILE:HG21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1805:TYR:OH	1:A:1817:ASN:HB2	2.11	0.49
1:J:1382:GLY:N	1:J:1491:THR:HB	2.27	0.49
1:E:195:SER:HB3	1:E:198:THR:CG2	2.42	0.49
1:G:36:VAL:HG22	1:G:40:LEU:HB2	1.94	0.49
1:B:211:ILE:HD11	1:B:897:LEU:HD11	1.93	0.49
1:E:1639:LYS:HG2	1:E:1694:LEU:HB2	1.94	0.49
1:D:1666:LYS:HD3	1:D:1706:LYS:HD3	1.93	0.49
1:H:1890:LEU:HB3	1:H:1960:TRP:CH2	2.47	0.49
1:C:1138:ALA:HB2	1:C:1761:SER:O	2.11	0.49
1:B:2273:CYS:HB3	1:B:2292:ILE:CD1	2.42	0.49
1:C:1057:MET:HE2	1:C:1774:TYR:HB3	1.93	0.49
1:A:2151:GLY:HA2	1:E:2143:ASN:HB3	1.94	0.49
1:E:1699:LEU:HD23	1:E:1700:ASN:OD1	2.12	0.49
1:D:1633:GLN:HB3	1:D:1755:SER:HB2	1.93	0.49
1:B:2125:THR:HA	1:B:2167:PHE:HE2	1.76	0.49
1:G:1400:ASN:HB3	1:G:1402:LEU:HB2	1.93	0.49
1:C:1383:ASP:O	1:C:1491:THR:OG1	2.28	0.49
1:H:2326:LYS:HE2	1:H:2516:LYS:HB2	1.94	0.49
1:G:1994:ALA:HB2	1:H:2065:LEU:HD11	1.94	0.49
1:G:162:LEU:HD23	1:G:979:ALA:HA	1.94	0.49
1:G:1869:ARG:NH2	1:G:1976:ILE:HG21	2.24	0.49
1:I:2106:ASN:OD1	1:I:2107:ILE:HG13	2.12	0.49
1:C:1294:PHE:CD1	1:C:1301:ARG:HB2	2.46	0.49
1:C:601:THR:HG23	1:C:604:GLU:H	1.77	0.49
1:D:1386:ILE:HD12	1:D:1408:TYR:CD1	2.42	0.49
1:C:1386:ILE:HG13	1:C:1410:TYR:HE1	1.77	0.49
1:F:2033:LEU:HD12	1:F:2269:ALA:HB3	1.93	0.49
1:H:2046:ARG:HB3	1:H:2251:TYR:HE2	1.76	0.49
1:J:2413:LYS:O	1:J:2473:GLU:HG2	2.11	0.49
1:J:1110:PHE:HE1	1:J:1126:VAL:HG12	1.76	0.49
1:G:464:VAL:CG2	1:G:477:LYS:HD2	2.43	0.49
1:C:1024:TYR:CG	1:C:1034:VAL:HG21	2.47	0.49
1:B:1865:ASP:OD1	1:B:1883:TYR:OH	2.28	0.49
1:I:2337:LEU:HD22	1:I:2391:VAL:HG21	1.94	0.49
1:J:1114:SER:OG	1:J:1120:GLU:HB2	2.12	0.49
1:D:1777:MET:HE1	1:D:1852:THR:HG23	1.94	0.49
1:F:2157:ILE:HD12	1:I:1152:ASN:HB2	1.94	0.49
1:A:1728:ASP:O	1:A:1731:GLY:HA2	2.11	0.49
1:F:358:LYS:HB2	1:F:390:GLU:HG2	1.94	0.49
1:A:59:ASN:OD1	1:A:1927:ARG:NH2	2.46	0.49
1:B:2497:GLN:HG2	1:B:2500:MET:SD	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2312:LEU:O	1:A:2316:GLN:HG3	2.12	0.49
1:E:940:GLU:HG3	1:E:979:ALA:HB2	1.94	0.49
1:C:207:VAL:HG13	1:C:922:LEU:HD12	1.94	0.49
1:G:99:ARG:HH11	1:G:1947:LEU:HB3	1.78	0.49
1:D:1611:ARG:HD2	1:E:1271:ALA:HB1	1.92	0.49
1:E:1411:SER:N	1:E:1419:GLN:O	2.45	0.49
1:F:2144:ILE:HD12	1:G:2144:ILE:HG21	1.93	0.49
1:F:162:LEU:HD21	1:F:940:GLU:HA	1.93	0.49
1:F:1139:ASN:HD21	1:F:1829:SER:H	1.60	0.49
1:F:1225:LYS:HE3	1:F:1252:GLN:HG2	1.94	0.49
1:J:2106:ASN:ND2	1:J:2189:ARG:HD2	2.28	0.49
1:F:2033:LEU:HD11	1:F:2266:TYR:HA	1.94	0.49
1:E:612:VAL:N	1:E:613:GLY:HA2	2.27	0.49
1:A:1355:PRO:HG2	1:A:1500:ILE:HD13	1.94	0.49
1:A:2187:ARG:NH2	1:E:2111:GLU:OE1	2.45	0.49
1:C:1172:LEU:HD21	1:C:1196:TYR:HB3	1.94	0.49
1:D:1642:TYR:CE2	1:D:1691:PHE:HB2	2.45	0.49
1:G:1585:THR:HB	1:G:1597:GLN:NE2	2.28	0.49
1:G:1227:GLU:HB3	1:G:1230:ARG:HG2	1.95	0.49
1:G:124:ARG:HD3	1:G:1911:ALA:O	2.12	0.49
1:H:1608:LEU:HD22	1:H:1611:ARG:HG3	1.94	0.49
1:B:2305:LEU:HD11	1:C:2258:LEU:HB2	1.94	0.49
1:A:714:TRP:CD2	1:A:762:LEU:HD22	2.48	0.49
1:J:161:THR:HG22	1:J:981:ILE:O	2.11	0.49
1:D:278:MET:CE	1:D:1478:GLY:H	2.25	0.49
1:H:940:GLU:HG3	1:H:979:ALA:HB2	1.93	0.49
1:F:622:ILE:HG21	1:F:627:LEU:HD23	1.94	0.49
1:E:1737:PRO:HA	1:E:1738:LYS:C	2.32	0.49
1:C:1773:TYR:O	1:C:1776:PRO:HD2	2.12	0.49
1:A:2008:LYS:HE3	1:A:2297:TRP:HB3	1.94	0.49
1:G:487:ARG:NH1	1:G:639:SER:OG	2.45	0.49
1:D:1391:LEU:HD11	1:D:1406:PRO:HD2	1.93	0.49
1:C:1607:THR:HG22	1:C:1764:ASN:HD22	1.77	0.49
1:C:2305:LEU:HD11	1:D:2258:LEU:HB2	1.93	0.49
1:I:1655:HIS:NE2	1:I:1929:ASN:O	2.44	0.49
1:C:1615:ALA:HA	1:D:1165:SER:HB2	1.93	0.49
1:D:2412:ILE:HD12	1:D:2475:ILE:HB	1.93	0.49
1:A:969:GLN:OE1	1:A:999:ARG:NE	2.45	0.49
1:F:1159:ARG:NH2	1:F:1301:ARG:O	2.33	0.49
1:C:1151:ILE:HG23	1:C:1171:TRP:CE2	2.47	0.49
1:H:2433:LEU:HB2	1:H:2448:LEU:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1353:ILE:HD12	1:J:1537:ILE:HD12	1.93	0.49
1:I:1711:PHE:HD1	1:I:1713:LYS:HG2	1.77	0.49
1:D:1368:LYS:O	1:D:1372:CYS:HB2	2.12	0.49
1:H:1896:LEU:HD21	1:H:1952:ILE:CD1	2.42	0.49
1:F:2497:GLN:O	1:F:2501:LEU:HG	2.12	0.49
1:D:2305:LEU:HD11	1:E:2258:LEU:HB2	1.94	0.49
1:H:844:ASN:HB2	1:I:564:ARG:HH12	1.77	0.49
1:F:1888:HIS:HE1	1:G:1002:GLU:OE1	1.95	0.49
1:C:814:LEU:HD22	1:C:838:ALA:HB1	1.93	0.49
1:D:854:GLN:HG2	1:D:862:VAL:HG12	1.93	0.49
1:H:1124:ARG:HD2	1:H:1144:TRP:CE2	2.47	0.49
1:I:2190:GLN:O	1:I:2194:ILE:HG12	2.11	0.49
1:J:2046:ARG:HB3	1:J:2251:TYR:HE2	1.77	0.49
1:J:2046:ARG:NH2	1:J:2251:TYR:OH	2.44	0.49
1:B:1333:TYR:HD2	1:B:1358:ARG:HD3	1.76	0.49
1:A:104:VAL:HG11	1:A:110:SER:OG	2.12	0.49
1:J:587:ASN:ND2	1:J:620:SER:O	2.45	0.49
1:H:1116:THR:HG23	1:I:1211:THR:HG21	1.94	0.49
1:G:2161:THR:O	1:G:2165:MET:HG2	2.13	0.49
1:H:2237:GLN:O	1:H:2240:PHE:HB3	2.12	0.49
1:C:833:GLU:HG2	1:C:843:ALA:HB1	1.93	0.49
1:D:1378:TYR:HB3	1:D:1421:ARG:NH1	2.27	0.49
1:A:1233:GLY:HA3	1:A:1250:TYR:HB2	1.94	0.49
1:A:1505:GLY:HA2	1:A:1542:LEU:HA	1.94	0.49
1:D:1264:MET:CE	1:D:1287:ARG:HG3	2.43	0.49
1:D:1503:LYS:HB2	1:D:1552:ASP:HB2	1.95	0.49
1:J:1502:VAL:HG11	1:J:1537:ILE:HG21	1.93	0.49
1:A:798:ALA:O	1:A:802:ILE:HG23	2.12	0.49
1:J:714:TRP:CE3	1:J:762:LEU:HD22	2.47	0.49
1:A:2102:LEU:HB3	1:A:2192:TRP:CE3	2.47	0.49
1:E:2068:LEU:CD1	1:E:2227:LEU:HB3	2.43	0.49
1:I:1260:LYS:HA	1:I:1287:ARG:HH22	1.76	0.49
1:B:1163:TYR:CE2	1:B:1245:LEU:HB3	2.48	0.49
1:I:477:LYS:HD3	1:I:499:CYS:SG	2.52	0.49
1:D:1104:ASP:HA	1:D:1598:TRP:HZ2	1.77	0.49
1:F:271:ILE:HG23	1:F:952:ARG:HH22	1.78	0.49
1:D:453:SER:HB3	1:D:456:ILE:HG12	1.93	0.49
1:F:1381:LEU:HD13	1:F:1382:GLY:N	2.27	0.49
1:J:778:LEU:HA	1:J:781:THR:HG22	1.95	0.49
1:I:1615:ALA:O	1:I:1618:THR:HG22	2.13	0.49
1:E:161:THR:C	1:E:163:SER:H	2.15	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:481:THR:O	1:A:485:MET:HG2	2.13	0.49
1:C:1737:PRO:HA	1:C:1738:LYS:C	2.32	0.49
1:A:1225:LYS:O	1:A:1230:ARG:NH1	2.28	0.49
1:J:557:ILE:HD11	1:J:592:LYS:HE3	1.94	0.49
1:D:1227:GLU:HB3	1:D:1230:ARG:HG2	1.94	0.49
1:G:1992:PRO:HB2	1:H:2068:LEU:HD23	1.94	0.49
1:B:1126:VAL:HB	1:B:1141:TRP:CE3	2.48	0.49
1:A:1604:ARG:NH1	1:A:1634:GLU:HB3	2.27	0.49
1:I:850:SER:O	1:I:854:GLN:HG3	2.13	0.49
1:I:733:TRP:HE1	1:I:748:THR:HB	1.78	0.49
1:C:347:PRO:HA	1:C:353:TYR:HD1	1.78	0.49
1:B:1865:ASP:OD1	1:B:1966:ARG:NH1	2.46	0.49
1:I:2359:LYS:O	1:I:2363:GLN:HG2	2.12	0.49
1:A:298:GLY:HA2	1:A:309:SER:OG	2.12	0.49
1:F:142:ARG:HD2	1:F:971:LEU:O	2.13	0.49
1:C:2179:ILE:O	1:C:2182:SER:HB3	2.13	0.49
1:C:260:ALA:HB1	1:C:434:TYR:HB2	1.94	0.49
1:F:1226:LEU:HD12	1:F:1228:LYS:HG3	1.95	0.49
1:C:868:PHE:HD1	1:C:874:ILE:HG12	1.78	0.49
1:D:361:ASN:OD1	1:D:362:PHE:N	2.45	0.49
1:H:847:LEU:O	1:H:851:ILE:HG13	2.13	0.49
1:A:2258:LEU:HB2	1:E:2305:LEU:CD1	2.41	0.49
1:J:520:ASN:HD21	1:J:528:TYR:H	1.60	0.49
1:J:714:TRP:CD1	1:J:794:PRO:HG2	2.47	0.49
1:B:1810:GLN:HE22	1:C:1321:ASP:HA	1.77	0.49
1:H:1248:MET:CE	1:H:1286:TYR:HB2	2.43	0.49
1:E:195:SER:O	1:E:198:THR:HG22	2.12	0.49
1:C:1177:ILE:HG12	1:D:2145:PHE:HD2	1.77	0.49
1:G:1383:ASP:O	1:G:1491:THR:OG1	2.19	0.49
1:D:1411:SER:HA	1:D:1415:SER:HB2	1.94	0.49
1:F:124:ARG:HD3	1:F:1911:ALA:O	2.13	0.49
1:D:161:THR:HG22	1:D:162:LEU:N	2.27	0.49
1:G:1074:VAL:HG21	1:G:1779:VAL:HG13	1.95	0.49
1:J:1607:THR:HG22	1:J:1764:ASN:HD22	1.77	0.49
1:I:132:SER:HA	1:I:137:TYR:CG	2.47	0.49
1:A:1794:ARG:NH2	1:A:1798:TYR:OH	2.44	0.49
1:D:2422:LEU:H	1:D:2503:THR:HG21	1.77	0.49
1:D:1811:ILE:HD11	1:E:1010:SER:HB3	1.95	0.49
1:B:1090:ASN:OD1	1:B:1611:ARG:NH1	2.45	0.49
1:H:1074:VAL:HG21	1:H:1779:VAL:HG13	1.95	0.49
1:H:69:ARG:HD3	1:H:83:LEU:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1710:THR:HG23	1:C:1715:PRO:HA	1.95	0.49
1:I:890:ALA:HB2	1:J:559:ASP:HB2	1.94	0.49
1:F:697:ALA:HB2	1:F:708:ALA:HB2	1.95	0.49
1:B:689:LEU:HD13	1:B:713:LEU:HD23	1.94	0.49
1:J:659:TYR:O	1:J:754:GLN:HG2	2.13	0.49
1:E:455:THR:HG21	1:E:508:TYR:CD2	2.47	0.49
1:C:2326:LYS:HE2	1:C:2516:LYS:HB2	1.94	0.49
1:C:1295:ASP:HB3	1:C:1301:ARG:NE	2.28	0.49
1:G:488:TYR:CZ	1:G:597:ILE:HD12	2.48	0.49
1:F:1110:PHE:HE1	1:F:1126:VAL:HG12	1.78	0.49
1:A:1357:LEU:HD12	1:A:1555:PHE:HB3	1.94	0.49
1:C:2424:GLY:N	1:C:2427:GLN:OE1	2.45	0.49
1:J:1260:LYS:HA	1:J:1287:ARG:HH12	1.78	0.49
1:G:192:PHE:HD2	1:G:198:THR:HG21	1.77	0.49
1:J:1711:PHE:HE1	1:J:1714:SER:HB3	1.78	0.49
1:D:2280:TYR:HE1	1:D:2321:HIS:HB2	1.78	0.49
1:I:714:TRP:NE1	1:I:794:PRO:HG2	2.27	0.49
1:J:2058:ASN:OD1	1:J:2238:LEU:HD11	2.13	0.49
1:E:296:PHE:CZ	1:E:444:ILE:HA	2.47	0.49
1:J:1596:MET:HB2	1:J:1605:LEU:HD11	1.95	0.49
1:E:1491:THR:HG21	1:E:1525:PHE:CZ	2.47	0.49
1:D:1641:PHE:HD1	1:D:1692:ILE:HB	1.78	0.49
1:A:2203:LEU:O	1:A:2207:ASP:HB2	2.13	0.49
1:C:2463:ASP:O	1:C:2466:ASP:HB2	2.11	0.49
1:E:2125:THR:HA	1:E:2167:PHE:HE2	1.77	0.49
1:I:1355:PRO:HD2	1:I:1532:PHE:HB2	1.95	0.49
1:C:1353:ILE:HG22	1:C:1355:PRO:HD3	1.94	0.49
1:C:1085:PHE:HE2	1:C:1767:TYR:HB3	1.78	0.49
1:A:1103:ASN:HB3	1:A:1584:LEU:HD23	1.94	0.49
1:C:1921:SER:O	1:C:1924:VAL:HG12	2.13	0.49
1:G:146:LYS:O	1:G:1908:ASP:HB2	2.13	0.49
1:I:1122:TYR:HD2	1:I:1146:LYS:HA	1.78	0.49
1:C:564:ARG:O	1:C:568:ILE:HG13	2.13	0.49
1:D:1295:ASP:HB3	1:D:1301:ARG:HE	1.78	0.49
1:A:2399:ARG:HD3	1:A:2410:ARG:HH11	1.78	0.49
1:H:1227:GLU:HB3	1:H:1230:ARG:HG2	1.95	0.49
1:C:1625:LEU:HD12	1:C:1798:TYR:CD1	2.48	0.49
1:C:1868:TYR:HE1	1:C:1970:LEU:HG	1.78	0.49
1:H:461:VAL:HG22	1:H:474:VAL:HG11	1.95	0.49
1:H:1604:ARG:NH1	1:H:1634:GLU:HB3	2.28	0.49
1:J:2357:ILE:O	1:J:2361:VAL:HG23	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1614:VAL:HG11	1:B:1166:ARG:HB2	1.94	0.49
1:G:1355:PRO:HG2	1:G:1500:ILE:HD13	1.94	0.49
1:D:1117:ASP:OD1	1:D:1118:ALA:N	2.46	0.49
1:I:1504:ALA:HA	1:I:1542:LEU:HD12	1.94	0.49
1:F:2291:PHE:CD2	1:F:2317:MET:HG3	2.47	0.49
1:A:1257:ASP:OD1	1:A:1258:SER:N	2.40	0.49
1:A:2063:LEU:HD11	1:B:2230:GLN:HG2	1.94	0.49
1:I:243:ILE:HG23	1:I:247:LEU:HD22	1.95	0.49
1:C:697:ALA:HB2	1:C:708:ALA:HB2	1.93	0.49
1:B:1807:VAL:HB	1:B:1812:GLN:OE1	2.12	0.49
1:H:2102:LEU:HD13	1:H:2192:TRP:CZ2	2.47	0.49
1:J:2457:SER:HB3	1:J:2462:LEU:HD22	1.95	0.49
1:C:1807:VAL:HB	1:C:1812:GLN:OE1	2.12	0.49
1:D:247:LEU:O	1:D:251:LEU:HG	2.13	0.49
1:I:1294:PHE:HA	1:I:1301:ARG:HB2	1.95	0.49
1:A:41:SER:O	1:A:42:TRP:HB3	2.11	0.49
1:F:612:VAL:CG1	1:F:633:LYS:HD3	2.43	0.49
1:D:2410:ARG:CG	1:D:2515:ILE:HG12	2.40	0.49
1:E:488:TYR:HB2	1:E:490:ILE:HG12	1.94	0.49
1:E:1497:LYS:O	1:E:1499:GLN:HG3	2.13	0.49
1:A:1561:ASP:CG	1:A:1563:ARG:HH21	2.16	0.49
1:I:2360:LEU:HD22	1:I:2375:LEU:CD2	2.43	0.49
1:D:1124:ARG:HB3	1:D:1144:TRP:CD2	2.48	0.49
1:F:2410:ARG:HG3	1:F:2515:ILE:HG12	1.95	0.49
1:C:136:TYR:HB3	1:C:141:ARG:HH21	1.77	0.49
1:H:1380:LYS:O	1:H:1383:ASP:HB2	2.12	0.49
1:D:2068:LEU:HD12	1:D:2227:LEU:HB3	1.94	0.49
1:J:398:ASN:ND2	1:J:400:ALA:HB3	2.28	0.49
1:J:2422:LEU:H	1:J:2503:THR:HG21	1.78	0.49
1:H:158:GLU:HB3	1:H:982:LYS:HE2	1.95	0.49
1:I:1124:ARG:HD2	1:I:1144:TRP:CE2	2.48	0.49
1:E:2102:LEU:HD13	1:E:2192:TRP:CZ2	2.48	0.49
1:D:887:LEU:HB2	1:D:889:VAL:HG12	1.94	0.49
1:I:1616:ARG:NH2	1:I:1628:GLU:HB2	2.28	0.49
1:B:371:LYS:HA	1:B:377:GLU:HA	1.95	0.49
1:D:1111:ILE:HG13	1:D:1160:PRO:HG3	1.93	0.49
1:D:1254:ASP:HB2	1:D:1259:TYR:CE2	2.48	0.49
1:A:67:LEU:O	1:A:103:TYR:OH	2.30	0.49
1:C:2397:LYS:HD3	1:C:2400:GLU:OE2	2.12	0.49
1:H:1381:LEU:HB3	1:H:1523:PRO:HB2	1.94	0.49
1:H:1114:SER:OG	1:H:1120:GLU:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1333:TYR:HD2	1:C:1358:ARG:CD	2.25	0.48
1:D:1868:TYR:CE1	1:D:1970:LEU:HG	2.44	0.48
1:G:1711:PHE:HD1	1:G:1713:LYS:HG2	1.77	0.48
1:D:689:LEU:HD13	1:D:713:LEU:HD23	1.94	0.48
1:G:2047:GLN:HB2	1:G:2251:TYR:HB3	1.94	0.48
1:I:1838:ASP:O	1:I:1842:GLN:HG3	2.13	0.48
1:F:465:ASN:ND2	1:F:471:ASN:HB2	2.27	0.48
1:G:161:THR:HG22	1:G:162:LEU:N	2.28	0.48
1:J:592:LYS:NZ	1:J:596:ASP:OD2	2.34	0.48
1:C:318:VAL:HG12	1:C:325:VAL:HG22	1.95	0.48
1:B:347:PRO:HA	1:B:353:TYR:HD1	1.77	0.48
1:E:1649:PRO:HG3	1:E:1684:THR:O	2.13	0.48
1:F:1300:ARG:O	1:F:1585:THR:HG23	2.13	0.48
1:G:1930:ILE:HB	1:G:1931:PRO:HD3	1.94	0.48
1:C:1800:TRP:HB2	1:C:1816:TRP:CD1	2.47	0.48
1:A:1963:LEU:O	1:A:1967:VAL:HG23	2.13	0.48
1:F:150:LEU:HB2	1:F:1905:PRO:HD2	1.95	0.48
1:J:2433:LEU:HD22	1:J:2482:LEU:HD21	1.95	0.48
1:G:1293:GLN:O	1:G:1301:ARG:HB3	2.14	0.48
1:A:1972:HIS:HA	1:B:978:SER:OG	2.14	0.48
1:H:1845:PRO:O	1:H:1849:LYS:N	2.29	0.48
1:D:402:ILE:HD12	1:D:428:VAL:HG11	1.96	0.48
1:C:1802:PRO:HB2	1:D:1002:GLU:HG2	1.95	0.48
1:I:1721:TRP:HA	1:I:1740:ILE:HD12	1.94	0.48
1:D:161:THR:HG22	1:D:162:LEU:H	1.77	0.48
1:H:2108:ASN:HB3	1:H:2111:GLU:HG3	1.95	0.48
1:D:1097:TYR:HB2	1:D:1160:PRO:O	2.12	0.48
1:G:1168:TYR:CD2	1:G:1202:HIS:HB3	2.48	0.48
1:D:1959:TYR:HA	1:D:1962:THR:HG22	1.95	0.48
1:B:273:PRO:HG3	1:B:434:TYR:HE2	1.78	0.48
1:J:1313:PRO:HG2	1:J:1573:PRO:HD2	1.95	0.48
1:A:1039:TYR:O	1:A:1041:PRO:HD3	2.13	0.48
1:C:1111:ILE:HG13	1:C:1160:PRO:HG3	1.94	0.48
1:H:1831:PRO:HG3	1:H:1843:HIS:HB2	1.95	0.48
1:H:1654:THR:HG22	1:H:1655:HIS:N	2.29	0.48
1:E:1071:ALA:O	1:E:1075:GLU:HG3	2.13	0.48
1:C:1721:TRP:HA	1:C:1740:ILE:HD12	1.95	0.48
1:F:2256:GLY:HA3	1:G:698:ALA:HB2	1.96	0.48
1:B:586:SER:O	1:B:590:ILE:HG13	2.13	0.48
1:A:2257:ARG:O	1:A:2261:ILE:HG12	2.13	0.48
1:J:2039:THR:O	1:J:2043:ILE:HG12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2214:ALA:O	1:D:2217:ARG:HB3	2.13	0.48
1:J:538:LEU:HB2	1:J:566:LEU:HD22	1.96	0.48
1:B:1177:ILE:HG12	1:C:2145:PHE:HD2	1.77	0.48
1:D:521:THR:HG23	1:D:522:PRO:CD	2.40	0.48
1:C:1260:LYS:HA	1:C:1287:ARG:HH12	1.78	0.48
1:J:2399:ARG:HD3	1:J:2410:ARG:NH1	2.28	0.48
1:A:1092:LYS:O	1:A:1112:GLY:HA2	2.13	0.48
1:C:1459:ASP:CB	1:C:1462:ASN:HB3	2.43	0.48
1:F:1408:TYR:CD2	1:F:1467:LEU:HD12	2.48	0.48
1:J:1410:TYR:CE2	1:J:1464:PRO:HB3	2.48	0.48
1:F:2331:VAL:HG23	1:G:2451:SER:OG	2.13	0.48
1:D:714:TRP:NE1	1:D:794:PRO:HG2	2.29	0.48
1:D:2102:LEU:HD13	1:D:2192:TRP:CZ2	2.48	0.48
1:H:2409:ILE:HD11	1:H:2516:LYS:HG3	1.95	0.48
1:B:260:ALA:HB1	1:B:434:TYR:HB2	1.94	0.48
1:F:905:SER:HB2	1:F:910:PRO:HD3	1.94	0.48
1:G:1438:ILE:HB	1:G:1441:ALA:HB3	1.94	0.48
1:E:1777:MET:HE1	1:E:1852:THR:HG23	1.94	0.48
1:B:1662:LYS:HD2	1:B:1712:LYS:HE2	1.95	0.48
1:C:2099:TYR:CD2	1:C:2195:GLN:HB3	2.48	0.48
1:G:41:SER:O	1:G:41:SER:OG	2.28	0.48
1:B:272:GLU:O	1:B:275:SER:HB3	2.13	0.48
1:I:1805:TYR:OH	1:I:1817:ASN:HB2	2.14	0.48
1:F:467:GLN:OE1	1:F:467:GLN:N	2.47	0.48
1:H:1235:TYR:HA	1:H:1303:ASN:ND2	2.29	0.48
1:B:2330:GLU:HB3	1:C:2460:PHE:CE2	2.49	0.48
1:G:1505:GLY:HA2	1:G:1542:LEU:HA	1.95	0.48
1:G:2142:PRO:HB2	1:G:2145:PHE:CZ	2.49	0.48
1:H:146:LYS:O	1:H:1908:ASP:HB2	2.13	0.48
1:B:1279:THR:HG23	1:B:1282:GLN:H	1.78	0.48
1:B:414:LEU:HB2	1:B:415:PRO:HD2	1.96	0.48
1:D:2360:LEU:HD22	1:D:2375:LEU:HD22	1.95	0.48
1:I:1648:PRO:O	1:I:1681:LEU:HD11	2.12	0.48
1:E:1642:TYR:HE2	1:E:1691:PHE:HB2	1.77	0.48
1:C:844:ASN:H	1:D:564:ARG:HH22	1.61	0.48
1:F:733:TRP:HE1	1:F:748:THR:HB	1.78	0.48
1:H:464:VAL:HG21	1:H:477:LYS:HD2	1.95	0.48
1:A:2281:ARG:HD3	1:A:2289:ALA:O	2.13	0.48
1:G:1071:ALA:O	1:G:1075:GLU:HG3	2.13	0.48
1:F:650:GLN:O	1:F:653:ILE:HG12	2.13	0.48
1:E:1300:ARG:O	1:E:1585:THR:HG23	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1121:TYR:O	1:J:1147:ILE:HG12	2.14	0.48
1:D:417:GLY:N	1:D:418:SER:HA	2.27	0.48
1:C:2375:LEU:HD21	1:C:2387:LEU:HD21	1.96	0.48
1:F:847:LEU:O	1:F:851:ILE:HG13	2.14	0.48
1:B:1924:VAL:HG23	1:B:1927:ARG:NH2	2.29	0.48
1:C:745:ALA:HB3	1:C:749:GLN:OE1	2.13	0.48
1:A:2165:MET:HB3	1:E:2128:VAL:HG22	1.96	0.48
1:G:601:THR:HG23	1:G:604:GLU:H	1.79	0.48
1:C:608:LEU:O	1:C:612:VAL:HG23	2.14	0.48
1:H:568:ILE:HG22	1:H:619:LEU:HD13	1.95	0.48
1:H:605:LEU:O	1:H:609:LEU:HG	2.13	0.48
1:F:814:LEU:HD22	1:F:838:ALA:HB1	1.94	0.48
1:J:250:ILE:HG23	1:J:267:ASN:HD21	1.77	0.48
1:B:1887:LEU:HD23	1:B:1963:LEU:HD13	1.95	0.48
1:D:1930:ILE:HB	1:D:1931:PRO:HD3	1.95	0.48
1:C:1248:MET:CE	1:C:1286:TYR:HB2	2.43	0.48
1:I:314:ILE:HD13	1:I:329:ARG:HG3	1.95	0.48
1:H:2331:VAL:HG23	1:I:2451:SER:OG	2.13	0.48
1:E:1138:ALA:HB2	1:E:1761:SER:O	2.13	0.48
1:E:1088:VAL:HG11	1:E:1767:TYR:CZ	2.48	0.48
1:H:176:GLU:HG2	1:H:954:VAL:HG22	1.95	0.48
1:I:2364:GLY:HA2	1:I:2377:PHE:CE2	2.48	0.48
1:A:1919:HIS:CE1	1:A:1923:ILE:HD11	2.49	0.48
1:D:1245:LEU:HG	1:D:1269:ILE:HB	1.94	0.48
1:H:1475:ASP:HB2	1:H:1479:THR:HB	1.95	0.48
1:G:220:GLN:HA	1:G:223:ALA:HB3	1.94	0.48
1:B:1770:GLU:HA	1:B:1774:TYR:HB2	1.94	0.48
1:A:568:ILE:HD13	1:A:605:LEU:HD12	1.95	0.48
1:I:1121:TYR:O	1:I:1147:ILE:HG12	2.12	0.48
1:I:1741:LEU:HD23	1:I:1742:THR:N	2.23	0.48
1:I:370:ILE:HG12	1:I:410:LEU:HD22	1.94	0.48
1:H:2106:ASN:HD21	1:H:2189:ARG:HB2	1.78	0.48
1:J:598:HIS:HB2	1:J:600:LEU:HD13	1.95	0.48
1:B:761:GLN:OE1	1:B:796:HIS:HE1	1.96	0.48
1:H:1849:LYS:O	1:H:1852:THR:HB	2.14	0.48
1:E:610:ILE:O	1:E:613:GLY:HA3	2.13	0.48
1:G:1157:THR:HG21	1:G:1172:LEU:HB3	1.96	0.48
1:E:1375:MET:SD	1:E:1385:PHE:HE1	2.37	0.48
1:I:2423:LEU:HD22	1:I:2500:MET:HG2	1.95	0.48
1:D:1333:TYR:HD2	1:D:1358:ARG:HD3	1.78	0.48
1:G:1942:ASN:O	1:G:1945:THR:HB	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1382:GLY:C	1:I:1413:ASN:HD21	2.16	0.48
1:H:1658:GLU:OE1	1:H:1712:LYS:HG3	2.13	0.48
1:A:402:ILE:HD12	1:A:428:VAL:HG11	1.94	0.48
1:D:1779:VAL:HG11	1:D:1795:TRP:CD2	2.48	0.48
1:I:612:VAL:N	1:I:613:GLY:HA2	2.27	0.48
1:E:1863:ARG:HD3	1:E:1882:TRP:CH2	2.49	0.48
1:I:332:ARG:NH1	1:I:344:GLU:HG2	2.29	0.48
1:C:441:ASN:OD1	1:C:445:ARG:NH1	2.47	0.48
1:A:1659:ARG:HB3	1:A:1660:TRP:CE3	2.48	0.48
1:J:1333:TYR:HD2	1:J:1358:ARG:HD3	1.79	0.48
1:F:2348:ASN:O	1:F:2350:PRO:HD3	2.12	0.48
1:C:2458:GLY:O	1:C:2459:GLN:HG2	2.13	0.48
1:D:1321:ASP:HB3	1:D:1569:SER:HB3	1.95	0.48
1:B:233:GLN:HB3	1:B:479:PHE:HD2	1.78	0.48
1:J:402:ILE:HD12	1:J:428:VAL:HG11	1.96	0.48
1:A:366:SER:OG	1:A:415:PRO:HD3	2.13	0.48
1:D:2360:LEU:HD21	1:D:2367:SER:HA	1.95	0.48
1:C:1604:ARG:HE	1:C:1637:LEU:HD23	1.78	0.48
1:E:73:GLN:OE1	1:E:1956:MET:HB2	2.13	0.48
1:F:1419:GLN:HB3	1:F:1462:ASN:CG	2.34	0.48
1:H:1317:SER:HB3	1:H:1336:ASP:HB2	1.94	0.48
1:I:2102:LEU:HB3	1:I:2192:TRP:CE3	2.49	0.48
1:G:1770:GLU:HA	1:G:1774:TYR:HB2	1.94	0.48
1:C:353:TYR:CE2	1:C:402:ILE:HD11	2.49	0.48
1:I:1300:ARG:O	1:I:1585:THR:OG1	2.28	0.48
1:H:2087:LYS:HD3	1:I:2204:LYS:HB3	1.95	0.48
1:G:779:PHE:CE1	1:G:803:MET:HE3	2.48	0.48
1:A:2327:ARG:NH2	1:B:2470:LEU:HD23	2.28	0.48
1:F:2143:ASN:C	1:G:2151:GLY:HA2	2.34	0.48
1:F:1494:SER:HB2	1:F:1497:LYS:HG3	1.95	0.48
1:E:1416:GLY:HA2	1:E:1417:LEU:HA	1.57	0.48
1:J:308:TYR:CE2	1:J:344:GLU:HB3	2.49	0.48
1:A:1855:ARG:O	1:A:1858:ASP:HB2	2.13	0.48
1:C:280:GLU:HG2	1:C:1399:SER:HB2	1.94	0.48
1:F:42:TRP:CZ2	1:F:1320:LYS:HB3	2.48	0.48
1:H:2025:ASN:ND2	1:H:2272:ARG:HD2	2.28	0.48
1:E:1627:MET:HA	1:E:1630:GLN:HB2	1.94	0.48
1:G:1097:TYR:HB2	1:G:1160:PRO:O	2.13	0.48
1:C:1217:VAL:HG22	1:C:1220:LYS:HB2	1.95	0.48
1:B:42:TRP:HH2	1:B:1321:ASP:HB2	1.79	0.48
1:D:1966:ARG:HG2	1:D:1976:ILE:HD12	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:930:GLN:HA	1:D:933:THR:HG22	1.95	0.48
1:B:146:LYS:O	1:B:1906:ARG:HG2	2.14	0.48
1:E:477:LYS:HD3	1:E:499:CYS:SG	2.54	0.48
1:F:1868:TYR:CG	1:F:1976:ILE:HG13	2.48	0.48
1:E:353:TYR:CE2	1:E:402:ILE:HD11	2.48	0.48
1:F:2126:THR:HG23	1:J:1204:ARG:NH2	2.28	0.48
1:G:1810:GLN:HE22	1:H:1321:ASP:HA	1.79	0.48
1:D:232:HIS:HB2	1:D:903:ILE:HG12	1.96	0.48
1:H:1208:THR:HG21	1:I:2126:THR:HG22	1.96	0.48
1:J:161:THR:C	1:J:163:SER:H	2.17	0.48
1:C:161:THR:C	1:C:163:SER:H	2.16	0.48
1:I:1640:GLY:HA2	1:I:1691:PHE:HE1	1.78	0.48
1:A:231:MET:CG	1:A:898:VAL:HG23	2.44	0.48
1:J:1805:TYR:CZ	1:J:1817:ASN:HB2	2.49	0.48
1:E:1649:PRO:HG3	1:E:1684:THR:HG23	1.96	0.48
1:E:1088:VAL:HG11	1:E:1767:TYR:CE1	2.49	0.48
1:I:1313:PRO:HG2	1:I:1573:PRO:HD2	1.95	0.48
1:A:125:GLU:OE1	1:A:1015:ARG:NH1	2.47	0.48
1:D:220:GLN:HA	1:D:223:ALA:HB3	1.95	0.48
1:E:687:ASP:HB3	1:E:690:HIS:HB2	1.95	0.48
1:G:649:PHE:O	1:G:653:ILE:HG23	2.14	0.48
1:J:2012:SER:HA	1:J:2274:LEU:HD23	1.96	0.48
1:D:1819:ARG:O	1:D:1822:LEU:N	2.46	0.48
1:F:123:TYR:CG	1:F:1907:LEU:HD21	2.49	0.48
1:E:784:GLU:HG3	1:E:784:GLU:H	1.38	0.48
1:D:259:ASN:HB3	1:D:263:LEU:HG	1.96	0.48
1:D:2430:GLN:N	1:D:2497:GLN:OE1	2.44	0.48
1:B:1238:GLY:O	1:B:1305:ARG:HG3	2.13	0.48
1:J:2102:LEU:HB3	1:J:2192:TRP:CZ3	2.48	0.48
1:F:542:SER:H	1:J:892:GLN:NE2	2.11	0.48
1:J:2018:ARG:NH2	1:J:2468:LYS:O	2.47	0.48
1:J:2016:LEU:HD13	1:J:2468:LYS:HD3	1.96	0.48
1:G:192:PHE:CE2	1:G:194:PRO:HG2	2.48	0.48
1:H:1086:GLU:OE2	1:I:1166:ARG:NH2	2.38	0.48
1:H:102:GLN:HG2	1:I:302:ASN:HD21	1.79	0.48
1:C:1057:MET:CE	1:C:1774:TYR:HB3	2.44	0.48
1:J:2462:LEU:HD11	1:J:2470:LEU:HD13	1.96	0.48
1:F:361:ASN:OD1	1:F:362:PHE:N	2.47	0.48
1:E:102:GLN:HE22	1:E:1901:THR:H	1.61	0.48
1:G:81:ALA:H	1:G:1816:TRP:HH2	1.60	0.48
1:A:272:GLU:O	1:A:275:SER:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:417:GLY:N	1:J:418:SER:HA	2.27	0.48
1:D:413:VAL:HG22	1:D:419:TRP:HB3	1.95	0.48
1:C:255:ILE:HD12	1:C:439:LYS:HG3	1.96	0.48
1:A:2033:LEU:HD11	1:A:2266:TYR:HA	1.95	0.48
1:A:835:LEU:HD23	1:A:835:LEU:O	2.14	0.48
1:F:1299:VAL:HG12	1:F:1587:HIS:HE1	1.77	0.48
1:E:1413:ASN:OD1	1:E:1414:THR:N	2.46	0.48
1:E:1974:LEU:HA	1:E:1980:PRO:HA	1.96	0.48
1:G:1138:ALA:HB2	1:G:1761:SER:O	2.14	0.48
1:D:1821:LEU:HD22	1:D:1845:PRO:HB3	1.94	0.48
1:B:1838:ASP:O	1:B:1842:GLN:HG3	2.12	0.48
1:A:1321:ASP:HB3	1:A:1569:SER:HB3	1.95	0.48
1:C:1408:TYR:HE1	1:C:1464:PRO:HA	1.79	0.48
1:I:1371:GLN:O	1:I:1375:MET:HG3	2.14	0.48
1:E:1327:TYR:HE2	1:E:1487:VAL:HG11	1.76	0.48
1:A:2497:GLN:HG2	1:A:2500:MET:SD	2.54	0.48
1:J:944:ALA:HA	1:J:964:ARG:NH2	2.29	0.48
1:B:1018:PHE:HA	1:B:1021:TRP:HB2	1.95	0.48
1:G:1421:ARG:HD2	1:G:1456:TYR:CG	2.49	0.48
1:F:453:SER:HB3	1:F:456:ILE:HG12	1.95	0.48
1:C:235:SER:HB2	1:C:902:TYR:H	1.79	0.48
1:I:519:PHE:HB3	1:I:550:ILE:CG2	2.44	0.48
1:A:1371:GLN:O	1:A:1375:MET:HG3	2.14	0.48
1:H:1639:LYS:HB2	1:H:1694:LEU:O	2.13	0.48
1:G:1323:GLY:HA3	1:G:1567:TYR:CE2	2.49	0.48
1:F:850:SER:O	1:F:854:GLN:HG3	2.14	0.48
1:A:1088:VAL:HG11	1:A:1767:TYR:CZ	2.49	0.48
1:H:2039:THR:O	1:H:2043:ILE:HG12	2.14	0.48
1:G:300:ALA:HB2	1:G:306:GLN:HE21	1.79	0.48
1:G:2334:THR:N	1:H:2428:ASP:OD2	2.28	0.48
1:C:1102:ASN:ND2	1:C:1576:LEU:O	2.47	0.48
1:I:2414:GLN:NE2	1:I:2415:ILE:O	2.47	0.48
1:I:1117:ASP:OD2	1:J:1211:THR:HB	2.14	0.48
1:H:1130:LYS:HB2	1:H:1140:ALA:HB2	1.96	0.48
1:A:524:LEU:HD22	1:A:546:TRP:HD1	1.78	0.47
1:I:2065:LEU:HD23	1:I:2065:LEU:HA	1.69	0.47
1:A:1172:LEU:HD11	1:A:1221:ILE:HD11	1.96	0.47
1:H:1279:THR:OG1	1:H:1280:PRO:HD2	2.14	0.47
1:H:2410:ARG:HG3	1:H:2515:ILE:HG12	1.96	0.47
1:I:1868:TYR:HE1	1:I:1970:LEU:HG	1.77	0.47
1:I:1704:HIS:CE1	1:I:1727:ARG:HB3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1422:LEU:HD22	1:J:1445:LEU:HD12	1.95	0.47
1:E:1268:TYR:HE1	1:E:1278:MET:HG3	1.79	0.47
1:F:465:ASN:HD22	1:F:471:ASN:HB2	1.79	0.47
1:G:1121:TYR:HB2	1:G:1147:ILE:CD1	2.44	0.47
1:E:1664:TYR:CE2	1:E:1675:ILE:HB	2.49	0.47
1:A:1604:ARG:HH12	1:A:1634:GLU:HB3	1.79	0.47
1:I:1213:ILE:HD13	1:I:1273:MET:HG3	1.95	0.47
1:D:537:ASP:OD2	1:D:539:ASN:HB2	2.14	0.47
1:J:1641:PHE:HD1	1:J:1692:ILE:HB	1.79	0.47
1:G:283:LYS:HG3	1:G:288:LEU:O	2.13	0.47
1:E:1424:PHE:HE2	1:E:1434:VAL:HG21	1.79	0.47
1:B:308:TYR:CE1	1:B:313:LEU:HB2	2.48	0.47
1:F:612:VAL:N	1:F:613:GLY:HA2	2.28	0.47
1:D:41:SER:O	1:D:42:TRP:HB2	2.14	0.47
1:H:2405:SER:N	1:I:2382:ASP:OD2	2.47	0.47
1:A:673:THR:HG1	1:E:2253:TRP:HE1	1.62	0.47
1:H:2095:ARG:HD3	1:I:2198:ASN:ND2	2.27	0.47
1:I:1660:TRP:O	1:I:1712:LYS:HG2	2.15	0.47
1:H:1770:GLU:HA	1:H:1774:TYR:HB2	1.95	0.47
1:I:278:MET:SD	1:I:1478:GLY:HA2	2.54	0.47
1:F:1357:LEU:HD12	1:F:1555:PHE:HD2	1.79	0.47
1:B:2106:ASN:OD1	1:B:2107:ILE:HG13	2.14	0.47
1:F:1514:ASP:OD2	1:F:1515:LYS:HG3	2.14	0.47
1:E:1384:LYS:HE2	1:E:1488:GLU:OE2	2.14	0.47
1:A:1264:MET:SD	1:A:1287:ARG:HB3	2.54	0.47
1:D:601:THR:HG23	1:D:604:GLU:H	1.79	0.47
1:C:2033:LEU:CD1	1:C:2266:TYR:HA	2.44	0.47
1:A:1268:TYR:HH	1:A:1286:TYR:HH	1.47	0.47
1:J:458:GLU:CD	1:J:506:ARG:HH22	2.16	0.47
1:C:1066:GLN:HG2	1:E:2178:LYS:NZ	2.29	0.47
1:I:1124:ARG:HD2	1:I:1144:TRP:CZ2	2.49	0.47
1:D:481:THR:O	1:D:485:MET:HG2	2.13	0.47
1:F:947:SER:CB	1:F:975:ASN:HD22	2.27	0.47
1:F:750:GLU:O	1:F:754:GLN:HG3	2.13	0.47
1:J:1517:VAL:HG11	1:J:1520:GLN:HG3	1.95	0.47
1:J:612:VAL:O	1:J:799:LEU:HD13	2.14	0.47
1:H:2033:LEU:CD1	1:H:2266:TYR:HA	2.44	0.47
1:D:340:GLN:HA	1:D:360:LYS:HB3	1.96	0.47
1:E:1352:TYR:HA	1:E:1535:LEU:O	2.14	0.47
1:A:326:LYS:NZ	1:A:430:GLU:HB3	2.29	0.47
1:A:2145:PHE:HB3	1:A:2146:GLY:HA2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1394:ASN:HB3	1:D:1396:ASN:O	2.14	0.47
1:A:1452:ILE:HD12	1:E:90:ILE:HA	1.96	0.47
1:C:520:ASN:ND2	1:C:528:TYR:H	2.12	0.47
1:F:104:VAL:HG12	1:F:108:THR:HG21	1.94	0.47
1:J:67:LEU:HD11	1:J:99:ARG:HH21	1.79	0.47
1:E:138:LEU:HD11	1:E:996:TYR:CE2	2.50	0.47
1:E:1372:CYS:HA	1:E:1375:MET:HE2	1.96	0.47
1:G:477:LYS:HD3	1:G:499:CYS:SG	2.54	0.47
1:J:2375:LEU:HD21	1:J:2387:LEU:HD21	1.95	0.47
1:F:370:ILE:HG12	1:F:410:LEU:HD22	1.95	0.47
1:I:1382:GLY:H	1:I:1491:THR:CG2	2.27	0.47
1:B:1704:HIS:HD2	1:B:1726:VAL:HG23	1.77	0.47
1:J:1599:GLN:HB3	1:J:1674:HIS:HE1	1.80	0.47
1:G:161:THR:HG22	1:G:162:LEU:H	1.78	0.47
1:I:612:VAL:HG22	1:I:637:ILE:HD12	1.95	0.47
1:J:612:VAL:N	1:J:613:GLY:HA2	2.28	0.47
1:D:2312:LEU:O	1:D:2316:GLN:HG3	2.14	0.47
1:H:1353:ILE:HG22	1:H:1355:PRO:HD3	1.96	0.47
1:A:896:ALA:O	1:A:900:LEU:HG	2.13	0.47
1:C:1955:VAL:O	1:C:1958:ASN:HB3	2.14	0.47
1:A:302:ASN:OD1	1:A:303:PHE:N	2.48	0.47
1:D:1595:TYR:HB3	1:D:1637:LEU:HD22	1.97	0.47
1:F:1100:ASN:HB2	1:F:1106:GLY:HA3	1.97	0.47
1:I:2312:LEU:O	1:I:2316:GLN:HG3	2.14	0.47
1:B:361:ASN:OD1	1:B:362:PHE:N	2.46	0.47
1:H:380:ARG:NH1	1:H:382:GLU:OE1	2.47	0.47
1:D:348:PHE:CE1	1:D:354:ARG:HD3	2.48	0.47
1:E:689:LEU:HD21	1:E:716:ASP:OD2	2.15	0.47
1:A:2078:LEU:HD11	1:A:2216:ARG:HG2	1.97	0.47
1:F:1074:VAL:HG21	1:F:1779:VAL:HG13	1.97	0.47
1:B:1294:PHE:HA	1:B:1301:ARG:CB	2.44	0.47
1:A:564:ARG:O	1:A:568:ILE:HG13	2.15	0.47
1:H:2144:ILE:HD12	1:I:2144:ILE:HG21	1.96	0.47
1:F:1284:ASN:HA	1:F:1287:ARG:HB3	1.95	0.47
1:J:2393:PHE:HE1	1:J:2482:LEU:HB2	1.79	0.47
1:E:2458:GLY:O	1:E:2459:GLN:HG2	2.14	0.47
1:A:1898:LEU:HD12	1:B:300:ALA:H	1.78	0.47
1:G:497:ILE:HD13	1:G:589:TYR:CD2	2.45	0.47
1:I:614:GLU:O	1:I:617:THR:N	2.38	0.47
1:A:452:LEU:HD22	1:A:456:ILE:HG21	1.96	0.47
1:A:1124:ARG:HD2	1:A:1144:TRP:CZ2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:598:HIS:HB2	1:I:600:LEU:HD13	1.96	0.47
1:J:255:ILE:HD11	1:J:442:LYS:HE2	1.95	0.47
1:B:1385:PHE:HB3	1:B:1409:GLN:HA	1.96	0.47
1:G:911:THR:HG22	1:G:913:ALA:H	1.79	0.47
1:G:1307:ALA:O	1:G:1577:LYS:HD2	2.13	0.47
1:B:2305:LEU:HD21	1:C:2258:LEU:HD12	1.97	0.47
1:E:822:LEU:HD23	1:E:822:LEU:HA	1.73	0.47
1:G:1901:THR:O	1:G:1945:THR:HG23	2.15	0.47
1:A:1595:TYR:CD2	1:A:1637:LEU:HB2	2.49	0.47
1:F:347:PRO:HA	1:F:353:TYR:CD1	2.49	0.47
1:C:1615:ALA:O	1:C:1618:THR:HG22	2.14	0.47
1:H:379:VAL:HG11	1:H:393:ALA:HB1	1.95	0.47
1:A:1149:CYS:SG	1:A:1150:PRO:HD2	2.55	0.47
1:C:2068:LEU:HD12	1:C:2227:LEU:HB3	1.96	0.47
1:I:2434:SER:HB2	1:I:2483:THR:HB	1.96	0.47
1:A:255:ILE:HD12	1:A:439:LYS:HG3	1.97	0.47
1:H:2167:PHE:CD1	1:I:2166:GLU:HG2	2.50	0.47
1:I:1641:PHE:HD1	1:I:1692:ILE:HB	1.78	0.47
1:H:159:LEU:CD1	1:H:985:ARG:HG3	2.44	0.47
1:C:1416:GLY:HA2	1:C:1417:LEU:HA	1.50	0.47
1:G:458:GLU:OE1	1:G:506:ARG:NH2	2.35	0.47
1:H:716:ASP:OD1	1:H:727:ALA:N	2.38	0.47
1:C:1336:ASP:O	1:C:1338:PRO:HD3	2.15	0.47
1:G:1497:LYS:O	1:G:1499:GLN:HG3	2.15	0.47
1:D:194:PRO:O	1:D:285:TYR:OH	2.18	0.47
1:E:81:ALA:N	1:E:1816:TRP:HH2	2.07	0.47
1:G:2399:ARG:HD3	1:G:2410:ARG:HH11	1.80	0.47
1:F:2016:LEU:HD13	1:F:2468:LYS:HD3	1.97	0.47
1:G:2422:LEU:O	1:G:2423:LEU:HD23	2.15	0.47
1:E:1261:ASN:H	1:E:1287:ARG:NH1	2.13	0.47
1:H:1294:PHE:CD1	1:H:1301:ARG:HB2	2.48	0.47
1:I:784:GLU:HG2	1:I:790:THR:HA	1.97	0.47
1:B:1375:MET:SD	1:B:1385:PHE:HE1	2.38	0.47
1:H:42:TRP:HH2	1:H:1321:ASP:HB2	1.78	0.47
1:A:1090:ASN:HD21	1:A:1610:ALA:HB3	1.79	0.47
1:F:129:LEU:HD11	1:F:1018:PHE:CE2	2.50	0.47
1:H:2411:ARG:O	1:H:2514:THR:N	2.45	0.47
1:C:1816:TRP:CZ2	1:C:1849:LYS:HD3	2.49	0.47
1:E:2203:LEU:O	1:E:2207:ASP:HB2	2.15	0.47
1:F:537:ASP:OD2	1:F:539:ASN:HB2	2.14	0.47
1:D:1101:ILE:HD11	1:D:1311:GLU:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:483:TYR:OH	1:J:487:ARG:HD2	2.14	0.47
1:B:1125:SER:H	1:B:1142:SER:HB3	1.79	0.47
1:C:322:ASP:HB2	1:C:324:THR:HG22	1.96	0.47
1:H:640:TRP:CD2	1:H:802:ILE:HG22	2.49	0.47
1:G:847:LEU:O	1:G:851:ILE:HG13	2.15	0.47
1:G:2143:ASN:HB3	1:H:2151:GLY:HA2	1.96	0.47
1:G:887:LEU:HB2	1:G:889:VAL:HG12	1.96	0.47
1:I:2143:ASN:HB3	1:J:2151:GLY:HA2	1.96	0.47
1:F:1998:ALA:N	1:G:812:ASN:OD1	2.44	0.47
1:H:1226:LEU:HD12	1:H:1228:LYS:HG3	1.96	0.47
1:C:852:GLN:HB3	1:C:880:TRP:CZ3	2.49	0.47
1:D:2399:ARG:HD3	1:D:2410:ARG:HH11	1.80	0.47
1:J:1158:ILE:HD11	1:J:1169:LEU:HD13	1.96	0.47
1:C:471:ASN:HB3	1:C:474:VAL:HG23	1.96	0.47
1:C:378:LEU:HD13	1:C:395:ILE:HG21	1.96	0.47
1:E:1291:TYR:C	1:E:1293:GLN:H	2.18	0.47
1:H:276:LEU:HA	1:H:281:TYR:CD2	2.48	0.47
1:D:1121:TYR:O	1:D:1147:ILE:HG12	2.15	0.47
1:G:2099:TYR:CD2	1:G:2195:GLN:HB3	2.50	0.47
1:I:1238:GLY:O	1:I:1305:ARG:HG3	2.15	0.47
1:B:2361:VAL:HG12	1:B:2491:MET:HB2	1.97	0.47
1:H:2073:LYS:NZ	1:I:2218:GLU:OE2	2.26	0.47
1:I:2305:LEU:HD21	1:J:2258:LEU:HD12	1.96	0.47
1:E:847:LEU:O	1:E:851:ILE:HG13	2.15	0.47
1:D:2143:ASN:C	1:E:2151:GLY:HA2	2.35	0.47
1:E:298:GLY:HA2	1:E:309:SER:OG	2.15	0.47
1:E:1074:VAL:HG21	1:E:1779:VAL:HG13	1.96	0.47
1:H:2497:GLN:O	1:H:2501:LEU:HG	2.14	0.47
1:B:26:HIS:HE1	1:B:1917:ASN:OD1	1.97	0.47
1:I:361:ASN:OD1	1:I:362:PHE:N	2.46	0.47
1:G:201:HIS:HB3	1:G:204:TYR:HB3	1.96	0.47
1:H:298:GLY:HA2	1:H:309:SER:OG	2.15	0.47
1:A:210:VAL:HG11	1:A:922:LEU:HB3	1.96	0.47
1:D:189:LEU:HA	1:D:189:LEU:HD12	1.70	0.47
1:C:1696:ASP:OD2	1:C:1696:ASP:N	2.48	0.47
1:A:2129:GLN:HG3	1:A:2164:VAL:HG21	1.96	0.47
1:C:1098:HIS:CE1	1:C:1103:ASN:HA	2.50	0.47
1:D:179:LEU:HB3	1:D:184:LYS:HG2	1.96	0.47
1:H:1039:TYR:O	1:H:1041:PRO:HD3	2.15	0.47
1:H:1033:GLY:HA2	1:H:1044:TYR:OH	2.14	0.47
1:G:607:LEU:HD22	1:G:652:PHE:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1291:TYR:C	1:B:1293:GLN:H	2.17	0.47
1:E:761:GLN:OE1	1:E:796:HIS:HE1	1.98	0.47
1:I:2107:ILE:HG23	1:I:2111:GLU:HB2	1.97	0.47
1:H:2144:ILE:HG23	1:H:2149:GLY:O	2.15	0.47
1:D:598:HIS:HB2	1:D:600:LEU:HD13	1.96	0.47
1:J:1411:SER:HA	1:J:1415:SER:CB	2.45	0.47
1:E:2393:PHE:HE1	1:E:2482:LEU:HB2	1.78	0.47
1:A:640:TRP:CD2	1:A:802:ILE:HG22	2.49	0.47
1:G:612:VAL:N	1:G:613:GLY:HA2	2.29	0.47
1:G:2008:LYS:NZ	1:G:2297:TRP:HD1	2.13	0.47
1:A:370:ILE:HD12	1:A:379:VAL:HB	1.96	0.47
1:F:1254:ASP:C	1:F:1256:LEU:N	2.67	0.47
1:H:1057:MET:HB2	1:H:1770:GLU:OE2	2.15	0.47
1:C:76:ASN:ND2	1:C:1892:ASP:O	2.24	0.47
1:D:1630:GLN:HA	1:D:1758:MET:HE1	1.97	0.47
1:E:195:SER:HB3	1:E:198:THR:HG21	1.95	0.47
1:J:2412:ILE:HG13	1:J:2475:ILE:O	2.14	0.47
1:I:336:THR:HA	1:I:337:ASN:HA	1.74	0.47
1:F:2432:ILE:O	1:F:2484:LEU:HA	2.15	0.47
1:J:181:ASN:OD1	1:J:182:TYR:N	2.44	0.47
1:B:852:GLN:HB3	1:B:880:TRP:CZ3	2.49	0.47
1:A:2126:THR:HG23	1:E:1204:ARG:NH2	2.30	0.47
1:B:195:SER:HB3	1:B:198:THR:CG2	2.44	0.47
1:C:192:PHE:HD2	1:C:198:THR:HG21	1.80	0.47
1:G:2273:CYS:HB3	1:G:2292:ILE:CD1	2.44	0.47
1:D:2258:LEU:O	1:D:2258:LEU:HD23	2.14	0.47
1:A:2059:GLN:HB2	1:B:2233:GLN:OE1	2.15	0.47
1:D:1111:ILE:HD11	1:D:1160:PRO:HB3	1.95	0.47
1:H:1381:LEU:HD13	1:H:1382:GLY:N	2.29	0.47
1:F:786:PHE:HB3	1:F:803:MET:SD	2.55	0.47
1:J:205:GLU:OE2	1:J:208:ARG:NH1	2.48	0.47
1:A:627:LEU:O	1:A:631:ILE:HG13	2.14	0.47
1:C:2364:GLY:HA2	1:C:2377:PHE:CE2	2.49	0.47
1:I:832:ALA:HB2	1:I:868:PHE:CZ	2.50	0.47
1:I:629:THR:HG23	1:I:632:ARG:NH1	2.30	0.47
1:J:1268:TYR:CD1	1:J:1278:MET:HG3	2.50	0.47
1:G:1796:LEU:HD13	1:G:1856:THR:HA	1.97	0.47
1:B:850:SER:O	1:B:854:GLN:HG3	2.13	0.47
1:J:654:MET:HE3	1:J:765:VAL:HG22	1.96	0.47
1:H:130:HIS:CD2	1:H:136:TYR:HB2	2.49	0.47
1:H:1327:TYR:CE2	1:H:1487:VAL:HG11	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1517:VAL:HG11	1:E:1520:GLN:HB3	1.97	0.47
1:I:212:GLN:NE2	1:I:240:ASN:HA	2.30	0.47
1:F:1327:TYR:CE2	1:F:1487:VAL:HG11	2.50	0.47
1:C:1162:ILE:HD13	1:C:1167:LEU:HA	1.97	0.47
1:J:154:ASN:O	1:J:984:THR:OG1	2.33	0.47
1:C:1352:TYR:HA	1:C:1535:LEU:O	2.15	0.47
1:A:1547:ASN:O	1:A:1575:THR:HG23	2.15	0.47
1:H:1921:SER:O	1:H:1924:VAL:HG12	2.14	0.47
1:A:1765:SER:HA	1:A:1768:PHE:HD1	1.80	0.47
1:I:461:VAL:HG22	1:I:474:VAL:HG11	1.96	0.47
1:B:2059:GLN:HB2	1:C:2233:GLN:OE1	2.15	0.47
1:D:2124:LEU:HD12	1:D:2167:PHE:HZ	1.79	0.47
1:D:92:TYR:HA	1:D:1926:LEU:HD11	1.97	0.47
1:F:1475:ASP:HB2	1:F:1479:THR:H	1.80	0.47
1:A:1153:PRO:CB	1:A:1171:TRP:HB2	2.42	0.47
1:E:2459:GLN:HG3	1:E:2460:PHE:O	2.15	0.47
1:J:520:ASN:ND2	1:J:528:TYR:HB2	2.26	0.47
1:F:1627:MET:HG2	1:F:1630:GLN:OE1	2.15	0.47
1:B:194:PRO:O	1:B:285:TYR:OH	2.14	0.47
1:A:1498:VAL:HG21	1:A:1530:TYR:CE2	2.47	0.47
1:G:276:LEU:HD23	1:G:437:LEU:HD13	1.97	0.47
1:C:1163:TYR:HB3	1:C:1168:TYR:CE1	2.50	0.47
1:H:273:PRO:HG3	1:H:434:TYR:HE2	1.80	0.47
1:C:714:TRP:CD2	1:C:762:LEU:HD22	2.50	0.47
1:F:2046:ARG:HB3	1:F:2251:TYR:HE2	1.78	0.47
1:B:817:LYS:O	1:B:821:VAL:HG23	2.15	0.47
1:A:783:PRO:HB3	1:A:794:PRO:HB3	1.96	0.47
1:I:1111:ILE:HG13	1:I:1160:PRO:HG3	1.97	0.47
1:F:2075:ILE:HG22	1:F:2220:ALA:HB1	1.96	0.47
1:H:1411:SER:HA	1:H:1415:SER:CB	2.44	0.47
1:J:170:LEU:HD13	1:J:182:TYR:HD2	1.79	0.47
1:J:1054:THR:OG1	1:J:1770:GLU:OE2	2.24	0.47
1:G:2102:LEU:HB3	1:G:2192:TRP:CZ3	2.49	0.47
1:J:2226:SER:O	1:J:2230:GLN:HG3	2.15	0.47
1:A:2247:ASN:HB2	1:A:2250:LEU:H	1.79	0.47
1:D:2411:ARG:O	1:D:2514:THR:N	2.47	0.47
1:H:2128:VAL:HG22	1:I:2165:MET:HB3	1.96	0.47
1:H:1973:ASN:O	1:H:1981:LEU:HD13	2.14	0.47
1:A:1708:TYR:CZ	1:A:1717:ASP:HB3	2.49	0.47
1:E:1101:ILE:HD12	1:E:1575:THR:HG22	1.97	0.47
1:I:142:ARG:HD2	1:I:971:LEU:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:778:LEU:HD21	1:D:785:MET:SD	2.54	0.47
1:F:2136:ALA:HA	1:F:2156:ALA:HB1	1.96	0.47
1:C:1064:VAL:HG13	1:C:1782:ARG:HG2	1.97	0.47
1:B:1178:THR:O	1:C:2146:GLY:HA3	2.15	0.47
1:A:2214:ALA:O	1:A:2217:ARG:HB3	2.15	0.47
1:B:1459:ASP:HB3	1:B:1462:ASN:HB3	1.97	0.47
1:A:68:LYS:HZ3	1:A:1040:TYR:HE2	1.63	0.47
1:I:2321:HIS:CE1	1:I:2322:LEU:HD23	2.50	0.47
1:A:541:GLY:CA	1:E:892:GLN:HE22	2.18	0.47
1:C:1654:THR:HG22	1:C:1655:HIS:ND1	2.30	0.47
1:F:2144:ILE:HG23	1:F:2149:GLY:O	2.14	0.47
1:F:1279:THR:OG1	1:F:1280:PRO:HD2	2.15	0.47
1:E:1200:LEU:HD23	1:E:1201:ALA:N	2.30	0.47
1:D:143:PRO:HA	1:D:146:LYS:HE2	1.96	0.47
1:C:465:ASN:ND2	1:C:471:ASN:HB2	2.30	0.47
1:J:2458:GLY:O	1:J:2459:GLN:HG2	2.15	0.47
1:B:465:ASN:HD22	1:B:471:ASN:HB2	1.79	0.47
1:C:90:ILE:CG1	1:D:1452:ILE:HB	2.44	0.47
1:J:1200:LEU:HD23	1:J:1201:ALA:N	2.30	0.47
1:D:709:HIS:O	1:D:713:LEU:HG	2.14	0.47
1:J:2161:THR:O	1:J:2165:MET:HG2	2.15	0.47
1:E:2258:LEU:HA	1:E:2261:ILE:CG2	2.44	0.47
1:F:1391:LEU:HD11	1:F:1406:PRO:HD2	1.95	0.47
1:F:2331:VAL:HG21	1:F:2402:TYR:HE2	1.80	0.47
1:B:348:PHE:CE1	1:B:354:ARG:HD3	2.50	0.47
1:B:1248:MET:CE	1:B:1286:TYR:HB2	2.45	0.47
1:D:1023:LYS:HG2	1:D:1024:TYR:CE1	2.50	0.47
1:F:601:THR:HG23	1:F:604:GLU:H	1.80	0.47
1:C:2316:GLN:HG2	1:D:2268:LEU:HD11	1.97	0.47
1:D:181:ASN:OD1	1:D:182:TYR:N	2.48	0.47
1:I:135:VAL:HG21	1:I:958:ALA:CB	2.45	0.47
1:C:212:GLN:NE2	1:C:240:ASN:HA	2.30	0.47
1:G:706:ASN:HB3	1:G:773:GLU:OE1	2.14	0.47
1:F:371:LYS:HB3	1:F:373:ASN:O	2.14	0.47
1:D:950:TYR:O	1:D:955:ALA:HB2	2.14	0.47
1:I:1514:ASP:OD2	1:I:1515:LYS:N	2.47	0.47
1:H:36:VAL:HG22	1:H:40:LEU:HB2	1.96	0.47
1:F:118:TYR:HB2	1:F:1031:TRP:CE3	2.50	0.47
1:H:372:LEU:HD23	1:H:373:ASN:ND2	2.29	0.47
1:B:2298:GLN:H	1:B:2303:GLY:HA2	1.78	0.47
1:H:850:SER:O	1:H:854:GLN:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1696:ASP:OD2	1:H:1696:ASP:N	2.48	0.47
1:E:2117:LEU:HA	1:E:2117:LEU:HD23	1.73	0.47
1:H:1492:ALA:O	1:H:1560:GLU:N	2.47	0.47
1:I:2333:ARG:NH1	1:I:2401:ASP:OD1	2.44	0.47
1:D:1736:ASN:O	1:D:1739:SER:HB2	2.15	0.47
1:A:1153:PRO:HB3	1:A:1171:TRP:CD1	2.50	0.47
1:H:143:PRO:HA	1:H:146:LYS:HE2	1.96	0.47
1:C:477:LYS:HD3	1:C:499:CYS:SG	2.54	0.47
1:J:1800:TRP:HB2	1:J:1816:TRP:CD1	2.49	0.47
1:B:465:ASN:ND2	1:B:471:ASN:HB2	2.30	0.47
1:B:784:GLU:HG2	1:B:790:THR:HA	1.96	0.47
1:E:276:LEU:HD23	1:E:437:LEU:HD13	1.96	0.47
1:G:2118:ARG:NH1	1:G:2177:ASP:HB3	2.30	0.47
1:I:1649:PRO:O	1:I:1681:LEU:HG	2.15	0.47
1:E:1604:ARG:NH1	1:E:1634:GLU:HB3	2.30	0.47
1:B:32:PHE:CD2	1:B:49:TYR:HD1	2.32	0.47
1:C:2040:LEU:HD23	1:C:2258:LEU:HB3	1.97	0.47
1:A:1760:PHE:CD1	1:A:1820:PRO:HG3	2.49	0.47
1:H:2165:MET:O	1:H:2168:SER:HB3	2.15	0.47
1:J:911:THR:HG22	1:J:913:ALA:H	1.80	0.47
1:E:714:TRP:CD1	1:E:794:PRO:HG2	2.50	0.47
1:A:978:SER:HG	1:E:1972:HIS:HA	1.79	0.47
1:G:2059:GLN:HB2	1:H:2233:GLN:OE1	2.15	0.47
1:B:2273:CYS:HB3	1:B:2292:ILE:HD13	1.97	0.47
1:A:2033:LEU:CD1	1:A:2266:TYR:HA	2.45	0.47
1:F:2470:LEU:O	1:F:2473:GLU:HG3	2.13	0.47
1:A:1336:ASP:O	1:A:1338:PRO:HD3	2.15	0.47
1:B:2082:LYS:O	1:B:2086:GLU:HG3	2.15	0.47
1:I:2059:GLN:NE2	1:J:2237:GLN:HE21	2.13	0.47
1:F:37:SER:O	1:F:1503:LYS:NZ	2.48	0.47
1:C:300:ALA:HB2	1:C:306:GLN:HE21	1.80	0.47
1:I:1884:MET:SD	1:I:1887:LEU:HD12	2.55	0.47
1:F:1783:LEU:HD13	1:F:1791:GLU:HB3	1.97	0.47
1:I:969:GLN:OE1	1:I:999:ARG:NE	2.48	0.47
1:B:1593:ALA:HB2	1:B:1635:PRO:HB2	1.97	0.47
1:A:650:GLN:O	1:A:653:ILE:HG12	2.15	0.47
1:E:1047:PRO:O	1:E:1778:LEU:HD12	2.15	0.47
1:B:2411:ARG:O	1:B:2514:THR:N	2.41	0.47
1:G:1130:LYS:HB2	1:G:1140:ALA:HB2	1.97	0.47
1:G:693:ALA:HB3	1:G:694:PRO:HD3	1.95	0.47
1:C:661:LYS:HD3	1:C:750:GLU:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2358:ASP:OD2	1:I:2502:LYS:HE2	2.14	0.47
1:A:1130:LYS:CB	1:A:1140:ALA:HB2	2.42	0.46
1:A:2410:ARG:HB3	1:A:2477:ILE:HG13	1.96	0.46
1:H:211:ILE:HG21	1:H:239:ILE:HD13	1.96	0.46
1:G:193:ARG:N	1:G:194:PRO:HD2	2.30	0.46
1:D:1124:ARG:HD2	1:D:1144:TRP:CE2	2.49	0.46
1:B:1245:LEU:HG	1:B:1269:ILE:HB	1.97	0.46
1:D:232:HIS:HB3	1:D:903:ILE:HG12	1.97	0.46
1:F:1885:GLN:HA	1:F:1888:HIS:NE2	2.30	0.46
1:D:2388:GLN:HB3	1:D:2485:SER:CB	2.45	0.46
1:D:2102:LEU:HB3	1:D:2192:TRP:CE3	2.50	0.46
1:I:2391:VAL:HG11	1:I:2396:LEU:HD21	1.97	0.46
1:B:2430:GLN:N	1:B:2497:GLN:OE1	2.46	0.46
1:H:2188:ARG:HD3	1:H:2192:TRP:CZ3	2.50	0.46
1:C:1111:ILE:HD11	1:C:1160:PRO:HB3	1.97	0.46
1:A:830:LEU:HD21	1:A:835:LEU:HD12	1.97	0.46
1:C:2068:LEU:CD1	1:C:2227:LEU:HB3	2.45	0.46
1:J:1268:TYR:CE1	1:J:1278:MET:HG3	2.50	0.46
1:I:1307:ALA:O	1:I:1577:LYS:HD2	2.16	0.46
1:H:977:VAL:HG13	1:H:981:ILE:HD12	1.96	0.46
1:C:1685:ASN:ND2	1:D:1524:SER:OG	2.48	0.46
1:I:232:HIS:CB	1:I:903:ILE:HG12	2.45	0.46
1:F:1657:ASP:OD1	1:F:1658:GLU:N	2.48	0.46
1:F:1326:ASP:OD2	1:F:1564:LYS:N	2.48	0.46
1:F:1380:LYS:O	1:F:1383:ASP:HB2	2.15	0.46
1:H:500:ASN:ND2	1:H:624:ASP:OD1	2.40	0.46
1:C:1224:LEU:HD11	1:C:1249:PHE:HB3	1.97	0.46
1:B:2432:ILE:O	1:B:2484:LEU:HA	2.15	0.46
1:A:1921:SER:O	1:A:1924:VAL:HG12	2.14	0.46
1:E:776:PHE:O	1:E:780:VAL:HG12	2.15	0.46
1:J:989:ALA:O	1:J:992:SER:HB2	2.15	0.46
1:G:667:ILE:HD11	1:G:757:GLN:HG3	1.97	0.46
1:H:832:ALA:C	1:H:834:GLN:H	2.18	0.46
1:C:1561:ASP:CG	1:C:1563:ARG:HH21	2.18	0.46
1:A:73:GLN:NE2	1:A:1952:ILE:HB	2.30	0.46
1:D:2273:CYS:HB3	1:D:2292:ILE:CD1	2.44	0.46
1:D:1647:ILE:HA	1:D:1648:PRO:HD2	1.66	0.46
1:I:1021:TRP:HA	1:I:1025:ASN:HB2	1.96	0.46
1:E:1328:TYR:HB2	1:E:1368:LYS:HG2	1.95	0.46
1:G:1975:SER:OG	1:G:1976:ILE:N	2.47	0.46
1:J:1022:ASP:HA	1:J:1026:LYS:HD2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1223:GLU:HB2	1:C:1265:GLN:NE2	2.31	0.46
1:J:528:TYR:CD1	1:J:550:ILE:HG21	2.43	0.46
1:E:2294:PRO:HA	1:E:2295:GLY:HA2	1.56	0.46
1:H:1951:GLN:HG2	1:H:1952:ILE:O	2.16	0.46
1:J:2106:ASN:ND2	1:J:2189:ARG:HB2	2.30	0.46
1:E:605:LEU:O	1:E:609:LEU:HG	2.14	0.46
1:G:733:TRP:CD2	1:G:752:ILE:HD12	2.51	0.46
1:H:1090:ASN:HD21	1:H:1610:ALA:HB3	1.81	0.46
1:C:1438:ILE:HB	1:C:1441:ALA:HB3	1.97	0.46
1:B:2178:LYS:NZ	1:E:1066:GLN:HG2	2.30	0.46
1:C:1642:TYR:CE2	1:C:1691:PHE:HB2	2.49	0.46
1:I:1651:ASN:OD1	1:I:1652:LEU:HA	2.15	0.46
1:J:1071:ALA:O	1:J:1075:GLU:HG3	2.15	0.46
1:D:2004:GLN:H	1:D:2300:THR:HG23	1.80	0.46
1:D:2422:LEU:HB2	1:D:2503:THR:HG21	1.95	0.46
1:G:1069:LEU:O	1:G:1788:ASN:ND2	2.48	0.46
1:F:2147:PHE:HE2	1:J:2147:PHE:CG	2.33	0.46
1:E:1668:VAL:HG13	1:E:1669:VAL:H	1.81	0.46
1:G:2248:GLN:NE2	1:H:702:LEU:HD12	2.30	0.46
1:C:947:SER:CB	1:C:975:ASN:HD22	2.29	0.46
1:E:2326:LYS:HE2	1:E:2516:LYS:HB2	1.97	0.46
1:J:2047:GLN:OE1	1:J:2255:ARG:HD2	2.16	0.46
1:A:565:LEU:HB2	1:A:602:ILE:HD13	1.96	0.46
1:E:1973:ASN:O	1:E:1981:LEU:HD13	2.15	0.46
1:E:1405:TYR:HD1	1:E:1425:HIS:HD2	1.64	0.46
1:G:1641:PHE:HD1	1:G:1692:ILE:HB	1.80	0.46
1:E:1498:VAL:HG11	1:E:1530:TYR:CE2	2.51	0.46
1:D:1653:SER:H	1:D:1713:LYS:CE	2.23	0.46
1:B:497:ILE:HD13	1:B:589:TYR:CD2	2.42	0.46
1:D:1371:GLN:O	1:D:1375:MET:HG3	2.16	0.46
1:A:612:VAL:HG22	1:A:637:ILE:CD1	2.45	0.46
1:E:2047:GLN:HE22	1:E:2255:ARG:HD2	1.80	0.46
1:H:1972:HIS:HB2	1:H:1974:LEU:HD13	1.97	0.46
1:B:1386:ILE:HB	1:B:1408:TYR:HB3	1.97	0.46
1:H:353:TYR:CE2	1:H:397:LEU:HB2	2.51	0.46
1:E:1625:LEU:HD12	1:E:1798:TYR:CD1	2.50	0.46
1:B:601:THR:HG23	1:B:604:GLU:H	1.80	0.46
1:E:1599:GLN:HB3	1:E:1674:HIS:CE1	2.48	0.46
1:E:2190:GLN:O	1:E:2194:ILE:HG12	2.15	0.46
1:E:1371:GLN:O	1:E:1375:MET:HG3	2.14	0.46
1:B:162:LEU:HD23	1:B:979:ALA:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1063:SER:O	1:F:1066:GLN:NE2	2.46	0.46
1:E:601:THR:HG23	1:E:604:GLU:H	1.80	0.46
1:A:1610:ALA:O	1:A:1614:VAL:HG23	2.15	0.46
1:F:232:HIS:CB	1:F:903:ILE:HG12	2.45	0.46
1:J:398:ASN:HD21	1:J:400:ALA:HB3	1.81	0.46
1:J:984:THR:HG23	1:J:987:ALA:H	1.80	0.46
1:G:1069:LEU:HD12	1:G:1786:GLU:HG3	1.96	0.46
1:A:601:THR:HG23	1:A:604:GLU:H	1.80	0.46
1:B:1750:LEU:HB3	1:B:1753:ILE:HD12	1.97	0.46
1:D:951:ILE:HD11	1:D:967:LEU:HB2	1.96	0.46
1:G:1363:GLY:HA3	1:G:1369:ARG:HA	1.96	0.46
1:J:1403:MET:HA	1:J:1481:THR:OG1	2.15	0.46
1:F:464:VAL:CG2	1:F:477:LYS:HD2	2.46	0.46
1:J:137:TYR:HE2	1:J:139:ASP:HB2	1.79	0.46
1:E:1955:VAL:O	1:E:1958:ASN:HB3	2.16	0.46
1:J:1783:LEU:HB3	1:J:1792:ALA:HB2	1.96	0.46
1:F:1289:ASN:HB2	1:F:1306:TYR:CE2	2.50	0.46
1:F:1863:ARG:HD3	1:F:1882:TRP:CZ3	2.50	0.46
1:G:137:TYR:CE2	1:G:139:ASP:HB2	2.50	0.46
1:F:1890:LEU:HB3	1:F:1960:TRP:CH2	2.51	0.46
1:J:465:ASN:OD1	1:J:466:LEU:N	2.43	0.46
1:A:940:GLU:HG3	1:A:979:ALA:HB2	1.97	0.46
1:H:2330:GLU:HG2	1:I:2460:PHE:CD2	2.50	0.46
1:F:1268:TYR:CD1	1:F:1278:MET:HG3	2.50	0.46
1:A:363:TYR:CE1	1:A:414:LEU:HD23	2.50	0.46
1:B:1381:LEU:HD22	1:B:1491:THR:HG21	1.98	0.46
1:A:2294:PRO:HA	1:A:2295:GLY:HA2	1.70	0.46
1:C:154:ASN:O	1:C:984:THR:HG23	2.16	0.46
1:J:832:ALA:C	1:J:834:GLN:H	2.17	0.46
1:G:1810:GLN:NE2	1:H:1321:ASP:HA	2.31	0.46
1:F:1090:ASN:HD21	1:F:1610:ALA:HB3	1.80	0.46
1:B:714:TRP:CE3	1:B:762:LEU:HD22	2.51	0.46
1:B:706:ASN:HB3	1:B:773:GLU:OE1	2.15	0.46
1:D:1348:ASP:OD1	1:D:1349:LEU:N	2.48	0.46
1:A:520:ASN:HD21	1:A:528:TYR:HB2	1.80	0.46
1:A:347:PRO:HA	1:A:353:TYR:HD1	1.80	0.46
1:J:1023:LYS:HG2	1:J:1024:TYR:CD1	2.51	0.46
1:C:832:ALA:C	1:C:834:GLN:H	2.17	0.46
1:C:1098:HIS:HE1	1:C:1103:ASN:HA	1.81	0.46
1:C:964:ARG:HE	1:C:975:ASN:ND2	2.13	0.46
1:B:1411:SER:HA	1:B:1415:SER:CB	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1773:TYR:HE2	1:J:1848:TYR:CD1	2.34	0.46
1:C:1885:GLN:HA	1:C:1888:HIS:CD2	2.51	0.46
1:G:48:LEU:O	1:G:52:ALA:N	2.48	0.46
1:C:689:LEU:HD22	1:C:712:LEU:HB3	1.97	0.46
1:F:1887:LEU:HD23	1:F:1963:LEU:HD13	1.98	0.46
1:E:2308:GLU:N	1:E:2308:GLU:OE1	2.35	0.46
1:H:1179:LYS:HD2	1:H:1179:LYS:HA	1.60	0.46
1:F:231:MET:HG3	1:F:898:VAL:HG23	1.98	0.46
1:D:1177:ILE:HD12	1:D:1195:ARG:HE	1.79	0.46
1:D:442:LYS:HB2	1:D:470:ILE:HD12	1.98	0.46
1:I:1294:PHE:CD1	1:I:1301:ARG:HB2	2.50	0.46
1:B:2413:LYS:N	1:B:2512:ARG:O	2.46	0.46
1:C:1651:ASN:HA	1:C:1653:SER:O	2.15	0.46
1:D:1091:LEU:HD21	1:D:1122:TYR:CD1	2.50	0.46
1:D:1741:LEU:HD23	1:D:1742:THR:N	2.22	0.46
1:C:589:TYR:CE2	1:C:593:LEU:HD11	2.51	0.46
1:A:1122:TYR:CD2	1:A:1146:LYS:HA	2.51	0.46
1:D:1651:ASN:CB	1:D:1652:LEU:HA	2.42	0.46
1:C:2336:SER:HB2	1:C:2506:ASP:OD1	2.16	0.46
1:C:44:GLU:HG3	1:C:1545:ILE:HD11	1.96	0.46
1:C:41:SER:O	1:C:42:TRP:HB2	2.16	0.46
1:G:2448:LEU:HG	1:G:2458:GLY:HA3	1.98	0.46
1:C:370:ILE:O	1:C:378:LEU:N	2.45	0.46
1:D:2047:GLN:HB2	1:D:2251:TYR:HB3	1.98	0.46
1:D:2431:ALA:HB3	1:D:2450:VAL:HG13	1.98	0.46
1:C:1093:VAL:H	1:C:1594:GLN:NE2	2.14	0.46
1:D:832:ALA:HB2	1:D:868:PHE:CE2	2.50	0.46
1:B:1367:GLN:HG3	1:B:1368:LYS:N	2.31	0.46
1:J:772:ASN:HB3	1:J:775:ALA:HB3	1.97	0.46
1:G:2106:ASN:CG	1:G:2189:ARG:HH11	2.18	0.46
1:J:322:ASP:HB2	1:J:324:THR:HG22	1.97	0.46
1:D:964:ARG:HD2	1:D:975:ASN:ND2	2.30	0.46
1:C:182:TYR:O	1:C:185:VAL:HB	2.16	0.46
1:E:2124:LEU:O	1:E:2128:VAL:HG23	2.15	0.46
1:D:1898:LEU:HB3	1:E:299:LYS:HB2	1.97	0.46
1:J:1844:ASP:HA	1:J:1845:PRO:HD3	1.80	0.46
1:B:1413:ASN:OD1	1:B:1414:THR:N	2.49	0.46
1:A:1522:SER:OG	1:E:1746:SER:HB3	2.16	0.46
1:F:2081:GLU:O	1:F:2084:VAL:HB	2.15	0.46
1:H:109:VAL:CG2	1:H:152:GLN:HA	2.46	0.46
1:A:2412:ILE:HD12	1:A:2475:ILE:HB	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1850:VAL:O	1:E:1853:PHE:HB3	2.16	0.46
1:J:1640:GLY:HA2	1:J:1691:PHE:HE1	1.80	0.46
1:G:2296:ALA:HB1	1:G:2306:ALA:HA	1.97	0.46
1:D:1050:ARG:HG3	1:D:1838:ASP:CG	2.36	0.46
1:B:1609:PHE:CE1	1:B:1632:ILE:HD12	2.50	0.46
1:F:1021:TRP:HA	1:F:1025:ASN:HB2	1.97	0.46
1:A:661:LYS:HD3	1:A:750:GLU:HB3	1.98	0.46
1:B:2033:LEU:HD11	1:B:2266:TYR:HA	1.98	0.46
1:C:734:LEU:HD23	1:C:734:LEU:HA	1.78	0.46
1:J:1996:LEU:HD23	1:J:1996:LEU:HA	1.70	0.46
1:H:1959:TYR:HA	1:H:1962:THR:HG22	1.97	0.46
1:H:1468:LYS:NZ	1:H:1486:PRO:HG2	2.30	0.46
1:H:1153:PRO:HB3	1:H:1171:TRP:CD1	2.51	0.46
1:G:1321:ASP:HB3	1:G:1569:SER:HB3	1.98	0.46
1:B:276:LEU:HA	1:B:281:TYR:HD2	1.81	0.46
1:C:1092:LYS:HE3	1:C:1588:HIS:HD2	1.81	0.46
1:I:1147:ILE:HD11	1:I:1151:ILE:HD12	1.98	0.46
1:B:1261:ASN:N	1:B:1287:ARG:CZ	2.78	0.46
1:D:195:SER:HB3	1:D:198:THR:HG21	1.97	0.46
1:C:1358:ARG:NH2	1:C:1527:GLU:OE1	2.43	0.46
1:J:1816:TRP:CZ2	1:J:1849:LYS:HD3	2.51	0.46
1:E:600:LEU:HD23	1:E:605:LEU:HA	1.97	0.46
1:H:1294:PHE:HA	1:H:1301:ARG:CB	2.46	0.46
1:F:564:ARG:O	1:F:568:ILE:HG13	2.15	0.46
1:B:2445:CYS:HB3	1:B:2471:PRO:HA	1.96	0.46
1:I:2375:LEU:HD21	1:I:2387:LEU:HD21	1.98	0.46
1:B:557:ILE:HG22	1:B:558:ASP:O	2.15	0.46
1:J:2341:TYR:CD1	1:J:2353:LEU:HD13	2.50	0.46
1:A:1138:ALA:HB2	1:A:1761:SER:O	2.15	0.46
1:D:1604:ARG:HE	1:D:1604:ARG:HB2	1.54	0.46
1:I:2291:PHE:CD2	1:I:2317:MET:HG3	2.51	0.46
1:F:1122:TYR:HE2	1:F:1146:LYS:HG2	1.80	0.46
1:C:1086:GLU:HG3	1:C:1610:ALA:HB1	1.96	0.46
1:C:1110:PHE:HE1	1:C:1126:VAL:HG12	1.81	0.46
1:B:153:GLN:O	1:B:157:ILE:HG12	2.16	0.46
1:E:760:ALA:O	1:E:763:GLU:HB3	2.15	0.46
1:D:332:ARG:HD3	1:D:334:TYR:CZ	2.51	0.46
1:B:1819:ARG:O	1:B:1822:LEU:N	2.48	0.46
1:H:523:LEU:HA	1:H:523:LEU:HD13	1.78	0.46
1:C:1568:GLU:HG3	1:C:1570:PHE:HE2	1.81	0.46
1:I:2285:ASN:ND2	1:I:2409:ILE:HG21	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1503:LYS:HB2	1:J:1552:ASP:HB2	1.98	0.46
1:E:1295:ASP:N	1:E:1301:ARG:HG3	2.30	0.46
1:F:2393:PHE:HE1	1:F:2482:LEU:HB2	1.81	0.46
1:E:1505:GLY:HA2	1:E:1542:LEU:HA	1.98	0.46
1:C:608:LEU:HG	1:C:648:VAL:HG13	1.97	0.46
1:I:586:SER:O	1:I:590:ILE:HG13	2.16	0.46
1:G:314:ILE:HD13	1:G:329:ARG:HG3	1.98	0.46
1:H:1650:TYR:HE1	1:H:1659:ARG:NH2	2.12	0.46
1:E:1147:ILE:HD11	1:E:1151:ILE:HD12	1.98	0.46
1:C:366:SER:N	1:C:413:VAL:O	2.47	0.46
1:H:1057:MET:CE	1:H:1774:TYR:HB3	2.46	0.46
1:D:93:ASN:HD22	1:E:1452:ILE:HD13	1.81	0.46
1:B:2106:ASN:ND2	1:B:2189:ARG:HD2	2.31	0.46
1:E:192:PHE:O	1:E:198:THR:HG23	2.16	0.46
1:H:1704:HIS:CD2	1:H:1727:ARG:H	2.34	0.46
1:H:283:LYS:NZ	1:H:290:ASP:HB2	2.31	0.46
1:G:1239:TYR:HD2	1:G:1242:GLU:H	1.63	0.46
1:A:1641:PHE:CD1	1:A:1692:ILE:HB	2.51	0.46
1:A:1732:ILE:HG22	1:A:1733:VAL:N	2.31	0.46
1:H:90:ILE:HD11	1:I:1453:GLY:H	1.81	0.46
1:A:1126:VAL:HB	1:A:1141:TRP:CZ3	2.51	0.46
1:G:2128:VAL:HG22	1:H:2165:MET:HB3	1.97	0.46
1:D:1495:PRO:HB2	1:D:1514:ASP:HB3	1.98	0.46
1:C:1023:LYS:HG3	1:C:1024:TYR:CE1	2.51	0.46
1:A:2151:GLY:HA2	1:E:2143:ASN:C	2.36	0.46
1:I:2364:GLY:HA2	1:I:2377:PHE:HE2	1.81	0.46
1:C:26:HIS:HE1	1:C:1917:ASN:OD1	1.99	0.46
1:D:102:GLN:HE22	1:D:1901:THR:H	1.63	0.46
1:C:118:TYR:HB2	1:C:1031:TRP:CZ3	2.50	0.46
1:J:296:PHE:O	1:J:312:GLN:NE2	2.49	0.46
1:I:2099:TYR:CD2	1:I:2195:GLN:HB3	2.50	0.46
1:I:2019:PHE:CE1	1:I:2280:TYR:HB2	2.51	0.46
1:I:179:LEU:HB3	1:I:184:LYS:HG2	1.98	0.46
1:I:702:LEU:O	1:I:702:LEU:HD23	2.16	0.46
1:D:260:ALA:HB1	1:D:434:TYR:HB2	1.97	0.46
1:I:283:LYS:HG3	1:I:288:LEU:O	2.15	0.46
1:C:1391:LEU:HD11	1:C:1406:PRO:HD2	1.97	0.46
1:G:662:THR:N	1:G:753:VAL:HG11	2.21	0.46
1:F:1800:TRP:HB2	1:F:1816:TRP:CD1	2.51	0.46
1:D:144:ASP:HB2	1:D:168:LEU:HD21	1.97	0.46
1:E:2410:ARG:HA	1:E:2514:THR:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1254:ASP:C	1:A:1256:LEU:N	2.67	0.46
1:J:1704:HIS:CE1	1:J:1727:ARG:HB3	2.51	0.46
1:D:1018:PHE:HA	1:D:1021:TRP:HB2	1.98	0.46
1:A:334:TYR:OH	1:A:342:ASP:HA	2.16	0.46
1:A:372:LEU:HB2	1:A:378:LEU:HD21	1.98	0.46
1:C:1898:LEU:HD12	1:D:300:ALA:H	1.81	0.46
1:H:1211:THR:HG22	1:H:1212:PRO:HD2	1.98	0.46
1:E:1244:THR:HG21	1:E:1268:TYR:CD2	2.50	0.46
1:B:336:THR:HA	1:B:337:ASN:HA	1.72	0.46
1:C:2273:CYS:HB3	1:C:2292:ILE:CD1	2.45	0.46
1:F:962:LYS:NZ	1:F:1398:SER:O	2.48	0.46
1:D:1800:TRP:HB2	1:D:1816:TRP:CD1	2.50	0.46
1:B:1641:PHE:CD1	1:B:1692:ILE:HB	2.50	0.46
1:G:1355:PRO:HD2	1:G:1532:PHE:HB2	1.97	0.46
1:F:1103:ASN:HB3	1:F:1598:TRP:CD1	2.50	0.46
1:I:2291:PHE:CG	1:I:2317:MET:HG3	2.51	0.46
1:C:481:THR:HG22	1:C:485:MET:HE1	1.96	0.46
1:J:2291:PHE:CE2	1:J:2317:MET:HA	2.51	0.46
1:F:2165:MET:HB3	1:J:2128:VAL:HG22	1.98	0.46
1:E:1161:VAL:HG11	1:E:1245:LEU:HD11	1.98	0.46
1:H:2099:TYR:CD2	1:H:2195:GLN:HB3	2.50	0.46
1:D:28:SER:OG	1:D:31:GLU:HG3	2.16	0.46
1:F:2012:SER:HA	1:F:2274:LEU:HD23	1.98	0.46
1:G:2383:THR:OG1	1:G:2386:SER:HB3	2.16	0.46
1:E:378:LEU:HD13	1:E:395:ILE:HD13	1.97	0.46
1:C:1409:GLN:OE1	1:C:1421:ARG:NH1	2.48	0.46
1:J:1973:ASN:O	1:J:1981:LEU:HD13	2.16	0.46
1:G:832:ALA:C	1:G:834:GLN:H	2.18	0.46
1:C:2331:VAL:HG23	1:D:2451:SER:OG	2.15	0.46
1:H:2088:SER:HB3	1:H:2206:ILE:HD13	1.98	0.46
1:H:1371:GLN:O	1:H:1375:MET:HG3	2.16	0.46
1:E:2348:ASN:O	1:E:2350:PRO:HD3	2.16	0.46
1:E:150:LEU:HB2	1:E:1905:PRO:HD2	1.98	0.46
1:B:2042:ASN:O	1:B:2045:GLU:HG2	2.16	0.46
1:J:92:TYR:HA	1:J:1926:LEU:HD13	1.97	0.46
1:H:1121:TYR:HB2	1:H:1147:ILE:HD11	1.97	0.46
1:I:2145:PHE:HB3	1:I:2146:GLY:HA2	1.97	0.46
1:D:534:GLU:O	1:D:580:ASN:HB2	2.16	0.46
1:I:2413:LYS:O	1:I:2473:GLU:HG2	2.16	0.46
1:I:2420:PRO:HD2	1:I:2506:ASP:O	2.16	0.46
1:B:1660:TRP:NE1	1:B:1680:GLN:HB3	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:962:LYS:NZ	1:G:1398:SER:OG	2.44	0.46
1:D:2294:PRO:HA	1:D:2295:GLY:HA2	1.67	0.46
1:G:2118:ARG:HH11	1:G:2177:ASP:HB3	1.81	0.46
1:I:1426:ARG:NH1	1:I:1428:THR:O	2.48	0.46
1:D:1178:THR:HB	1:E:2146:GLY:H	1.81	0.46
1:C:2059:GLN:HB2	1:D:2233:GLN:OE1	2.16	0.46
1:C:1121:TYR:O	1:C:1147:ILE:HG12	2.15	0.46
1:A:1150:PRO:HG3	1:C:2158:ALA:HB2	1.98	0.46
1:C:1289:ASN:HB2	1:C:1306:TYR:CE1	2.51	0.46
1:C:1226:LEU:HD12	1:C:1228:LYS:HE3	1.98	0.46
1:C:1972:HIS:HA	1:D:978:SER:OG	2.16	0.46
1:A:814:LEU:HD13	1:A:821:VAL:HG11	1.98	0.46
1:C:565:LEU:HB2	1:C:602:ILE:HD13	1.96	0.46
1:I:250:ILE:HG23	1:I:267:ASN:HD21	1.80	0.46
1:G:1646:VAL:HB	1:G:1745:GLU:HB3	1.96	0.46
1:G:836:ALA:HB2	1:G:846:LEU:HD22	1.98	0.46
1:C:2432:ILE:O	1:C:2484:LEU:HA	2.15	0.46
1:H:1664:TYR:CE2	1:H:1675:ILE:HB	2.51	0.46
1:G:1890:LEU:HB3	1:G:1960:TRP:CZ2	2.51	0.46
1:J:905:SER:HB2	1:J:910:PRO:HD3	1.98	0.46
1:H:593:LEU:HA	1:H:596:ASP:HB2	1.98	0.46
1:F:2106:ASN:HB2	1:F:2189:ARG:HH11	1.81	0.46
1:H:192:PHE:CZ	1:H:194:PRO:HG2	2.50	0.46
1:F:1268:TYR:CE1	1:F:1278:MET:HG3	2.50	0.46
1:A:1139:ASN:HD21	1:A:1829:SER:H	1.63	0.46
1:J:36:VAL:CG1	1:J:40:LEU:HB2	2.45	0.46
1:A:1876:LEU:HA	1:A:1876:LEU:HD23	1.48	0.46
1:I:1050:ARG:HG3	1:I:1838:ASP:CG	2.36	0.46
1:D:1660:TRP:CE2	1:D:1680:GLN:HB3	2.50	0.46
1:C:2106:ASN:HB2	1:C:2189:ARG:NH1	2.31	0.46
1:G:464:VAL:HG22	1:G:477:LYS:HD2	1.98	0.46
1:I:1505:GLY:H	1:I:1542:LEU:CB	2.29	0.46
1:B:1595:TYR:CD2	1:B:1637:LEU:HB2	2.51	0.46
1:D:1821:LEU:CD2	1:D:1845:PRO:HB3	2.46	0.46
1:F:2420:PRO:HD2	1:F:2506:ASP:O	2.16	0.46
1:I:1108:THR:OG1	1:I:1128:HIS:NE2	2.33	0.46
1:H:1863:ARG:HD3	1:H:1882:TRP:CZ3	2.51	0.46
1:B:1130:LYS:HB2	1:B:1140:ALA:HB2	1.97	0.46
1:A:2194:ILE:HD12	1:E:2098:SER:HB3	1.98	0.46
1:J:709:HIS:HD1	1:J:777:ARG:HH22	1.64	0.46
1:C:655:THR:HG23	1:C:796:HIS:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:36:VAL:O	1:A:36:VAL:HG12	2.15	0.46
1:B:441:ASN:OD1	1:B:445:ARG:NH1	2.49	0.46
1:J:340:GLN:HA	1:J:360:LYS:HB3	1.97	0.46
1:A:1002:GLU:HG2	1:E:1802:PRO:HB2	1.98	0.46
1:H:1289:ASN:HB2	1:H:1306:TYR:HE2	1.81	0.46
1:I:745:ALA:HB3	1:I:749:GLN:OE1	2.16	0.46
1:B:1559:ALA:HB2	1:B:1565:LEU:HD21	1.98	0.46
1:B:1473:MET:HE2	1:B:1483:VAL:CG2	2.45	0.46
1:D:784:GLU:HG3	1:D:784:GLU:H	1.24	0.46
1:A:778:LEU:HD21	1:A:785:MET:SD	2.56	0.46
1:G:1114:SER:OG	1:G:1120:GLU:HB2	2.15	0.46
1:J:2025:ASN:OD1	1:J:2272:ARG:HD2	2.16	0.45
1:A:1113:LEU:HD13	1:A:1121:TYR:CE2	2.51	0.45
1:C:1295:ASP:HB3	1:C:1301:ARG:HE	1.81	0.45
1:A:130:HIS:ND1	1:A:996:TYR:OH	2.47	0.45
1:B:138:LEU:HD12	1:B:138:LEU:H	1.81	0.45
1:J:2145:PHE:HB3	1:J:2146:GLY:HA2	1.98	0.45
1:D:612:VAL:N	1:D:613:GLY:HA2	2.31	0.45
1:C:1386:ILE:HB	1:C:1408:TYR:HB3	1.97	0.45
1:B:2095:ARG:NH2	1:B:2202:GLU:OE2	2.45	0.45
1:C:1284:ASN:HA	1:C:1287:ARG:HD2	1.98	0.45
1:I:771:ILE:HG22	1:I:775:ALA:HB3	1.98	0.45
1:B:1384:LYS:O	1:B:1410:TYR:HB2	2.16	0.45
1:C:71:ASN:HA	1:C:72:PRO:HD3	1.81	0.45
1:E:1426:ARG:NH2	1:E:1452:ILE:HA	2.30	0.45
1:B:2258:LEU:HA	1:B:2261:ILE:CG2	2.46	0.45
1:E:1640:GLY:HA2	1:E:1691:PHE:HE1	1.80	0.45
1:A:1534:ALA:O	1:A:1535:LEU:HD23	2.16	0.45
1:E:1658:GLU:HB3	1:E:1712:LYS:HB3	1.98	0.45
1:J:772:ASN:HD22	1:J:822:LEU:HD12	1.79	0.45
1:H:1352:TYR:HA	1:H:1535:LEU:O	2.15	0.45
1:F:488:TYR:CZ	1:F:597:ILE:HD12	2.51	0.45
1:F:2128:VAL:HG22	1:G:2165:MET:HB3	1.98	0.45
1:E:102:GLN:OE1	1:E:1901:THR:HG23	2.16	0.45
1:C:306:GLN:OE1	1:C:315:THR:HG22	2.16	0.45
1:B:1473:MET:HE2	1:B:1483:VAL:HG21	1.98	0.45
1:D:1668:VAL:HG13	1:D:1669:VAL:H	1.82	0.45
1:F:900:LEU:HD13	1:F:915:TRP:CZ3	2.51	0.45
1:G:2281:ARG:HG2	1:G:2289:ALA:HB3	1.98	0.45
1:E:61:LEU:HG	1:E:1832:LEU:HD11	1.98	0.45
1:G:725:MET:HG2	1:G:755:TYR:HB2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:150:LEU:HB2	1:A:1905:PRO:HD2	1.98	0.45
1:I:153:GLN:O	1:I:157:ILE:HG12	2.15	0.45
1:B:2412:ILE:HD12	1:B:2475:ILE:HB	1.98	0.45
1:A:1465:ASP:O	1:A:1468:LYS:HB3	2.16	0.45
1:E:1959:TYR:HA	1:E:1962:THR:HG22	1.99	0.45
1:I:1438:ILE:HB	1:I:1441:ALA:HB3	1.97	0.45
1:D:609:LEU:HD21	1:D:634:LEU:HD11	1.98	0.45
1:F:771:ILE:HD11	1:F:804:LEU:HB3	1.99	0.45
1:G:1092:LYS:O	1:G:1112:GLY:HA2	2.15	0.45
1:A:1097:TYR:HB2	1:A:1160:PRO:O	2.15	0.45
1:J:1248:MET:HE1	1:J:1286:TYR:HB2	1.98	0.45
1:B:950:TYR:O	1:B:955:ALA:HB2	2.16	0.45
1:F:1117:ASP:OD1	1:F:1118:ALA:N	2.48	0.45
1:E:1394:ASN:HB3	1:E:1396:ASN:O	2.16	0.45
1:B:594:LEU:O	1:B:598:HIS:ND1	2.41	0.45
1:D:1122:TYR:HD2	1:D:1146:LYS:HA	1.80	0.45
1:I:2042:ASN:ND2	1:I:2046:ARG:HD2	2.30	0.45
1:A:141:ARG:NH1	1:A:970:TYR:O	2.49	0.45
1:G:1093:VAL:HG22	1:G:1144:TRP:HH2	1.81	0.45
1:G:498:LEU:HD21	1:G:597:ILE:HG21	1.98	0.45
1:F:2247:ASN:HB2	1:F:2250:LEU:H	1.82	0.45
1:I:1375:MET:HB3	1:I:1385:PHE:HZ	1.81	0.45
1:C:366:SER:OG	1:C:415:PRO:HD3	2.16	0.45
1:C:2111:GLU:OE1	1:D:2187:ARG:NH2	2.49	0.45
1:D:2095:ARG:HD3	1:E:2198:ASN:ND2	2.30	0.45
1:H:1326:ASP:HB2	1:H:1563:ARG:HB2	1.98	0.45
1:I:1179:LYS:HB3	1:I:1191:GLU:HG2	1.99	0.45
1:B:1139:ASN:HD21	1:B:1829:SER:H	1.64	0.45
1:J:2294:PRO:HA	1:J:2295:GLY:HA2	1.63	0.45
1:D:965:ASP:OD2	1:D:976:GLN:NE2	2.50	0.45
1:B:614:GLU:HG3	1:B:630:LEU:HG	1.99	0.45
1:C:192:PHE:CE2	1:C:194:PRO:HG2	2.51	0.45
1:E:1683:ASP:HA	1:E:1684:THR:HA	1.70	0.45
1:C:1061:LEU:HD22	1:C:1778:LEU:HD11	1.98	0.45
1:G:248:PHE:CE1	1:G:902:TYR:HB3	2.51	0.45
1:H:417:GLY:N	1:H:418:SER:HA	2.31	0.45
1:D:571:HIS:H	1:D:618:ASN:HD22	1.65	0.45
1:J:689:LEU:HD13	1:J:713:LEU:HD21	1.98	0.45
1:A:26:HIS:HE1	1:A:1917:ASN:OD1	1.99	0.45
1:G:365:ALA:O	1:G:384:ALA:HB2	2.16	0.45
1:I:2244:LYS:HE2	1:I:2246:SER:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:972:LEU:HA	1:A:972:LEU:HD23	1.74	0.45
1:C:206:ASN:OD1	1:C:934:LEU:HD11	2.16	0.45
1:F:1433:LYS:HB2	1:F:1447:ASN:O	2.17	0.45
1:F:2145:PHE:HA	1:F:2145:PHE:HD1	1.64	0.45
1:G:432:ASN:O	1:G:436:PHE:N	2.44	0.45
1:G:1915:THR:CG2	1:G:1943:THR:HB	2.44	0.45
1:J:745:ALA:HB3	1:J:749:GLN:OE1	2.16	0.45
1:E:598:HIS:HB2	1:E:600:LEU:HD13	1.98	0.45
1:I:1868:TYR:HA	1:I:1876:LEU:HD23	1.98	0.45
1:E:41:SER:HB3	1:E:44:GLU:OE1	2.16	0.45
1:J:1280:PRO:O	1:J:1284:ASN:ND2	2.46	0.45
1:F:1357:LEU:HB3	1:F:1530:TYR:HB2	1.97	0.45
1:E:1410:TYR:CZ	1:E:1464:PRO:HB3	2.51	0.45
1:F:1066:GLN:HG2	1:H:2178:LYS:HZ3	1.79	0.45
1:E:1086:GLU:HG3	1:E:1610:ALA:HB1	1.98	0.45
1:I:161:THR:HG22	1:I:162:LEU:H	1.81	0.45
1:F:79:HIS:CD2	1:F:1815:GLN:HG2	2.51	0.45
1:I:2273:CYS:HB3	1:I:2292:ILE:HD13	1.97	0.45
1:A:2018:ARG:NH1	1:A:2473:GLU:OE2	2.48	0.45
1:I:1289:ASN:HB2	1:I:1306:TYR:CE2	2.51	0.45
1:F:142:ARG:NH1	1:F:144:ASP:OD2	2.47	0.45
1:B:1921:SER:O	1:B:1924:VAL:HG12	2.16	0.45
1:A:336:THR:HA	1:A:337:ASN:HA	1.76	0.45
1:F:417:GLY:N	1:F:418:SER:HA	2.31	0.45
1:B:1668:VAL:HG13	1:B:1669:VAL:H	1.81	0.45
1:A:1955:VAL:O	1:A:1958:ASN:HB3	2.17	0.45
1:I:1607:THR:HG22	1:I:1764:ASN:HD22	1.81	0.45
1:J:1602:ARG:HD2	1:J:1693:PRO:HB3	1.98	0.45
1:D:2349:GLY:O	1:D:2369:GLY:HA2	2.16	0.45
1:I:1561:ASP:OD2	1:I:1563:ARG:NH2	2.48	0.45
1:H:2034:THR:HG22	1:H:2307:GLY:C	2.36	0.45
1:J:274:ALA:O	1:J:278:MET:HG3	2.16	0.45
1:G:1670:ASP:OD1	1:G:1672:ASN:HB2	2.17	0.45
1:E:972:LEU:HA	1:E:972:LEU:HD23	1.68	0.45
1:C:450:THR:HG21	1:C:478:VAL:HG11	1.99	0.45
1:A:1065:SER:HA	1:A:1782:ARG:HE	1.82	0.45
1:J:1388:TYR:CE2	1:J:1486:PRO:HB3	2.51	0.45
1:I:2042:ASN:O	1:I:2045:GLU:HG2	2.16	0.45
1:G:1178:THR:O	1:H:2146:GLY:HA3	2.16	0.45
1:E:1139:ASN:HD21	1:E:1829:SER:HB2	1.80	0.45
1:B:1121:TYR:O	1:B:1147:ILE:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1650:TYR:O	1:H:1651:ASN:CB	2.63	0.45
1:B:1976:ILE:HA	1:B:1976:ILE:HD13	1.87	0.45
1:I:1385:PHE:CB	1:I:1409:GLN:HA	2.46	0.45
1:A:1711:PHE:HE1	1:A:1714:SER:HB3	1.80	0.45
1:C:1280:PRO:O	1:C:1284:ASN:ND2	2.49	0.45
1:C:1262:ALA:H	1:C:1287:ARG:NH2	2.13	0.45
1:B:1951:GLN:HG2	1:B:1952:ILE:O	2.16	0.45
1:H:2247:ASN:HB2	1:H:2250:LEU:H	1.81	0.45
1:B:1627:MET:HG2	1:B:1630:GLN:OE1	2.15	0.45
1:C:1257:ASP:CG	1:C:1258:SER:H	2.17	0.45
1:E:398:ASN:O	1:E:402:ILE:HG12	2.17	0.45
1:E:2187:ARG:HA	1:E:2190:GLN:OE1	2.16	0.45
1:F:1200:LEU:HD23	1:F:1201:ALA:N	2.31	0.45
1:F:461:VAL:HG22	1:F:474:VAL:HG11	1.98	0.45
1:A:1604:ARG:HE	1:A:1637:LEU:HD21	1.81	0.45
1:H:2338:ALA:HB2	1:H:2506:ASP:HB3	1.98	0.45
1:A:733:TRP:CZ3	1:A:738:TYR:HB2	2.51	0.45
1:C:2158:ALA:O	1:C:2161:THR:HB	2.16	0.45
1:A:1040:TYR:CD2	1:A:1953:ASN:HB3	2.51	0.45
1:H:974:ASP:HB3	1:H:977:VAL:CG2	2.46	0.45
1:F:895:SER:HA	1:F:898:VAL:HG12	1.98	0.45
1:A:1111:ILE:HD11	1:A:1160:PRO:HB3	1.98	0.45
1:A:2186:ARG:NH2	1:D:1786:GLU:OE1	2.50	0.45
1:I:1886:ALA:HB1	1:I:1963:LEU:HD11	1.97	0.45
1:J:65:ARG:NH1	1:J:88:GLU:OE2	2.49	0.45
1:J:1416:GLY:HA2	1:J:1417:LEU:HA	1.42	0.45
1:A:832:ALA:HB2	1:A:868:PHE:CZ	2.50	0.45
1:C:308:TYR:HE2	1:C:344:GLU:HB3	1.80	0.45
1:A:2127:ALA:HB1	1:B:2165:MET:HE1	1.97	0.45
1:F:1205:TYR:CD1	1:J:1082:LEU:HB3	2.50	0.45
1:B:124:ARG:HB2	1:B:1911:ALA:HB1	1.97	0.45
1:I:540:SER:HB2	1:I:563:PHE:CG	2.52	0.45
1:F:1518:SER:HB3	1:F:1533:ASN:HD21	1.81	0.45
1:D:2203:LEU:O	1:D:2207:ASP:HB2	2.16	0.45
1:I:482:LYS:HD2	1:I:485:MET:HE3	1.99	0.45
1:I:2064:ILE:HG21	1:I:2231:GLN:HB2	1.98	0.45
1:C:2143:ASN:HB3	1:D:2151:GLY:HA2	1.99	0.45
1:B:104:VAL:HG12	1:B:108:THR:HG21	1.95	0.45
1:F:2448:LEU:HB2	1:F:2472:PHE:CE1	2.45	0.45
1:D:2448:LEU:HG	1:D:2458:GLY:HA3	1.97	0.45
1:G:1283:SER:O	1:G:1287:ARG:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2448:LEU:HG	1:E:2458:GLY:HA3	1.99	0.45
1:A:1408:TYR:CD2	1:A:1467:LEU:HD12	2.51	0.45
1:H:654:MET:HE3	1:H:765:VAL:HG22	1.98	0.45
1:F:594:LEU:HD22	1:F:634:LEU:HD12	1.98	0.45
1:G:1706:LYS:NZ	1:G:1718:GLY:HA2	2.32	0.45
1:A:118:TYR:HB2	1:A:1031:TRP:CZ3	2.52	0.45
1:A:1170:LEU:HD23	1:A:1200:LEU:HA	1.98	0.45
1:J:163:SER:O	1:J:167:GLU:HG3	2.16	0.45
1:E:1104:ASP:HA	1:E:1598:TRP:CZ2	2.51	0.45
1:B:659:TYR:O	1:B:754:GLN:HG2	2.17	0.45
1:D:2099:TYR:CE2	1:D:2195:GLN:HG2	2.52	0.45
1:J:1057:MET:HB2	1:J:1770:GLU:OE2	2.17	0.45
1:D:1423:LEU:HD23	1:D:1456:TYR:HB3	1.97	0.45
1:A:1625:LEU:HD12	1:A:1798:TYR:HB3	1.97	0.45
1:B:1752:ASN:HB3	1:C:1338:PRO:HB2	1.98	0.45
1:C:1338:PRO:HD2	1:C:1354:SER:O	2.16	0.45
1:F:371:LYS:HA	1:F:377:GLU:HA	1.99	0.45
1:B:2077:GLU:OE1	1:C:2216:ARG:NH1	2.48	0.45
1:G:2412:ILE:HD12	1:G:2475:ILE:HB	1.99	0.45
1:F:1463:LYS:HA	1:F:1464:PRO:HD2	1.75	0.45
1:E:1660:TRP:CE2	1:E:1680:GLN:HB3	2.51	0.45
1:D:1534:ALA:O	1:D:1535:LEU:HD23	2.16	0.45
1:B:1664:TYR:CE2	1:B:1675:ILE:HB	2.52	0.45
1:F:1165:SER:HB2	1:J:1615:ALA:HA	1.98	0.45
1:F:969:GLN:OE1	1:F:999:ARG:NE	2.50	0.45
1:B:1009:ASN:O	1:B:1013:ILE:HG13	2.16	0.45
1:G:986:ILE:O	1:G:990:ILE:HG13	2.16	0.45
1:F:2145:PHE:HD2	1:J:1177:ILE:HG12	1.81	0.45
1:C:2398:ILE:HB	1:C:2477:ILE:HG21	1.98	0.45
1:D:1394:ASN:HD22	1:D:1480:ALA:HB1	1.81	0.45
1:I:2025:ASN:ND2	1:I:2272:ARG:HD2	2.31	0.45
1:I:1411:SER:HA	1:I:1415:SER:HB2	1.97	0.45
1:F:589:TYR:CE2	1:F:593:LEU:HD11	2.51	0.45
1:H:534:GLU:O	1:H:580:ASN:HB2	2.17	0.45
1:D:192:PHE:O	1:D:198:THR:HG23	2.17	0.45
1:C:568:ILE:HD13	1:C:605:LEU:HD12	1.98	0.45
1:G:1630:GLN:HG2	1:G:1819:ARG:CB	2.42	0.45
1:D:1797:LYS:HG3	1:D:1801:SER:HB3	1.99	0.45
1:H:2244:LYS:HE2	1:H:2246:SER:HB3	1.99	0.45
1:D:1658:GLU:OE1	1:D:1712:LYS:HE3	2.16	0.45
1:D:2106:ASN:HB2	1:D:2189:ARG:HH11	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2068:LEU:CD1	1:I:2227:LEU:HB3	2.45	0.45
1:D:101:SER:HA	1:E:1429:THR:CG2	2.45	0.45
1:I:2361:VAL:HG22	1:I:2501:LEU:HD12	1.98	0.45
1:H:1086:GLU:CD	1:I:1166:ARG:HH22	2.19	0.45
1:G:2046:ARG:HB3	1:G:2251:TYR:HE2	1.82	0.45
1:G:1704:HIS:CD2	1:G:1727:ARG:H	2.34	0.45
1:E:341:MET:SD	1:E:343:VAL:HG23	2.57	0.45
1:I:1517:VAL:CG1	1:I:1520:GLN:HG3	2.46	0.45
1:G:2059:GLN:HB2	1:H:2233:GLN:NE2	2.31	0.45
1:G:161:THR:C	1:G:163:SER:H	2.20	0.45
1:E:1491:THR:O	1:E:1493:ILE:HG13	2.16	0.45
1:I:232:HIS:HB2	1:I:903:ILE:HG12	1.98	0.45
1:B:2033:LEU:CD1	1:B:2266:TYR:HA	2.46	0.45
1:D:1312:ILE:HD11	1:D:1574:VAL:HG22	1.99	0.45
1:F:1453:GLY:HA3	1:J:86:ASN:HB3	1.98	0.45
1:I:308:TYR:CD1	1:I:313:LEU:HB2	2.52	0.45
1:C:1973:ASN:O	1:C:1981:LEU:HB2	2.16	0.45
1:H:354:ARG:NH1	1:H:356:ASP:OD1	2.50	0.45
1:A:1559:ALA:HB2	1:A:1565:LEU:HD21	1.98	0.45
1:D:511:GLN:HB3	1:D:517:ARG:HH21	1.81	0.45
1:E:1698:PRO:HB3	1:E:1704:HIS:CD2	2.52	0.45
1:F:2151:GLY:HA2	1:J:2143:ASN:C	2.36	0.45
1:H:2055:LEU:O	1:H:2058:ASN:HB2	2.16	0.45
1:F:2065:LEU:HD23	1:F:2065:LEU:HA	1.81	0.45
1:F:341:MET:SD	1:F:342:ASP:N	2.90	0.45
1:A:1054:THR:HG23	1:A:1770:GLU:OE1	2.17	0.45
1:A:797:ASP:H	1:A:800:SER:HB2	1.81	0.45
1:F:1294:PHE:HA	1:F:1301:ARG:CB	2.46	0.45
1:E:1819:ARG:O	1:E:1822:LEU:N	2.49	0.45
1:J:2433:LEU:O	1:J:2447:ALA:HA	2.16	0.45
1:F:2106:ASN:HB2	1:F:2189:ARG:HH12	1.81	0.45
1:H:2410:ARG:O	1:H:2476:ALA:HA	2.16	0.45
1:I:1498:VAL:HG21	1:I:1530:TYR:CE2	2.52	0.45
1:J:402:ILE:HG23	1:J:428:VAL:CG1	2.44	0.45
1:B:1810:GLN:NE2	1:C:1321:ASP:HA	2.31	0.45
1:J:75:GLN:NE2	1:J:1895:TYR:HE2	2.12	0.45
1:H:1244:THR:HG21	1:H:1268:TYR:CD2	2.51	0.45
1:A:2273:CYS:HB3	1:A:2292:ILE:CD1	2.45	0.45
1:G:557:ILE:HG22	1:G:558:ASP:O	2.16	0.45
1:G:557:ILE:HD11	1:G:592:LYS:HE3	1.98	0.45
1:F:192:PHE:O	1:F:198:THR:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:372:LEU:HD23	1:D:373:ASN:OD1	2.16	0.45
1:B:714:TRP:CD1	1:B:794:PRO:HG2	2.52	0.45
1:I:1245:LEU:HG	1:I:1269:ILE:HB	1.98	0.45
1:I:783:PRO:HB3	1:I:794:PRO:HB3	1.97	0.45
1:B:1890:LEU:HB3	1:B:1960:TRP:CH2	2.52	0.45
1:A:2335:VAL:HG21	1:A:2396:LEU:HD13	1.99	0.45
1:J:1633:GLN:HB3	1:J:1755:SER:HB2	1.98	0.45
1:F:23:ASP:O	1:F:26:HIS:ND1	2.48	0.45
1:J:1850:VAL:O	1:J:1853:PHE:HB3	2.17	0.45
1:E:2161:THR:O	1:E:2165:MET:HG2	2.17	0.45
1:B:185:VAL:O	1:B:189:LEU:HB2	2.17	0.45
1:B:189:LEU:HD12	1:B:189:LEU:HA	1.76	0.45
1:H:1640:GLY:HA2	1:H:1691:PHE:HE1	1.81	0.45
1:A:1310:TYR:CD2	1:A:1576:LEU:HD13	2.52	0.45
1:I:2095:ARG:HD3	1:J:2198:ASN:HD21	1.80	0.45
1:C:2089:LYS:NZ	1:C:2207:ASP:OD2	2.31	0.45
1:H:1622:ASP:N	1:H:1622:ASP:OD2	2.50	0.45
1:I:380:ARG:NH1	1:I:382:GLU:OE1	2.48	0.45
1:B:947:SER:CB	1:B:975:ASN:HD22	2.30	0.45
1:E:1516:ASP:HB2	1:E:1532:PHE:HD2	1.81	0.45
1:H:123:TYR:CG	1:H:1907:LEU:HD21	2.52	0.45
1:C:109:VAL:HG21	1:C:152:GLN:HA	1.99	0.45
1:F:1699:LEU:HD12	1:F:1700:ASN:OD1	2.16	0.45
1:H:1841:ALA:HA	1:H:1847:HIS:HB2	1.98	0.45
1:H:1178:THR:O	1:I:2146:GLY:HA3	2.17	0.45
1:D:2393:PHE:CE1	1:D:2482:LEU:HB2	2.51	0.45
1:H:568:ILE:HD13	1:H:605:LEU:HD12	1.99	0.45
1:F:2106:ASN:HD21	1:F:2189:ARG:HB2	1.82	0.45
1:G:363:TYR:CE1	1:G:414:LEU:HD23	2.51	0.45
1:A:2108:ASN:HB2	1:B:2187:ARG:NH2	2.31	0.45
1:G:1498:VAL:HG21	1:G:1530:TYR:CE2	2.48	0.45
1:I:446:LEU:CD1	1:I:457:LEU:HD13	2.46	0.45
1:H:1797:LYS:HE3	1:H:1801:SER:HB2	1.99	0.45
1:G:481:THR:O	1:G:485:MET:HG2	2.17	0.45
1:A:1641:PHE:CE2	1:A:1733:VAL:HG11	2.52	0.45
1:I:1168:TYR:HD2	1:I:1200:LEU:HD21	1.81	0.45
1:I:2286:ASP:OD2	1:I:2289:ALA:HB2	2.17	0.45
1:A:1248:MET:CE	1:A:1286:TYR:HB2	2.46	0.45
1:C:353:TYR:CD2	1:C:397:LEU:HD12	2.51	0.45
1:C:248:PHE:CE1	1:C:902:TYR:HB3	2.52	0.45
1:I:519:PHE:HD2	1:I:550:ILE:HG22	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1424:PHE:CE2	1:E:1434:VAL:HG21	2.52	0.45
1:E:1704:HIS:CE1	1:E:1727:ARG:H	2.35	0.45
1:I:118:TYR:HB2	1:I:1031:TRP:CE3	2.52	0.45
1:A:431:TYR:OH	1:A:468:LEU:HG	2.16	0.45
1:E:725:MET:HG2	1:E:755:TYR:HB2	1.97	0.45
1:B:1390:SER:HB3	1:B:1484:SER:HB2	1.98	0.45
1:C:1374:LEU:HD21	1:C:1425:HIS:HB2	1.98	0.45
1:E:2237:GLN:O	1:E:2240:PHE:HB3	2.17	0.45
1:J:1890:LEU:HB3	1:J:1960:TRP:CH2	2.52	0.45
1:J:1061:LEU:HD22	1:J:1778:LEU:HD11	1.99	0.45
1:D:614:GLU:HG3	1:D:630:LEU:HG	1.99	0.45
1:I:1560:GLU:HA	1:I:1560:GLU:OE2	2.16	0.45
1:F:1876:LEU:HD23	1:F:1876:LEU:HA	1.85	0.45
1:H:750:GLU:O	1:H:754:GLN:HG3	2.16	0.45
1:A:132:SER:HA	1:A:137:TYR:CG	2.52	0.45
1:C:1463:LYS:HG3	1:C:1466:ASP:HB2	1.98	0.45
1:D:1475:ASP:HB2	1:D:1479:THR:HB	1.97	0.45
1:B:1294:PHE:HA	1:B:1301:ARG:HB2	1.98	0.45
1:E:892:GLN:H	1:E:892:GLN:HG3	1.49	0.45
1:J:1355:PRO:HG2	1:J:1500:ILE:HD13	1.99	0.45
1:G:2187:ARG:HD3	1:G:2190:GLN:OE1	2.17	0.45
1:F:1386:ILE:HD12	1:F:1408:TYR:HD1	1.81	0.45
1:H:1254:ASP:C	1:H:1256:LEU:N	2.68	0.45
1:I:141:ARG:NH2	1:I:1005:GLU:OE1	2.46	0.45
1:J:76:ASN:ND2	1:J:1892:ASP:O	2.29	0.45
1:B:2360:LEU:HD22	1:B:2375:LEU:HD22	1.99	0.45
1:J:1385:PHE:CB	1:J:1409:GLN:HA	2.47	0.45
1:I:67:LEU:HD11	1:I:99:ARG:HH21	1.82	0.45
1:A:1641:PHE:CE1	1:A:1692:ILE:HD12	2.52	0.45
1:G:1383:ASP:N	1:G:1491:THR:OG1	2.50	0.45
1:C:2258:LEU:O	1:C:2258:LEU:HD23	2.17	0.45
1:F:79:HIS:CE1	1:F:1802:PRO:HA	2.52	0.45
1:F:1291:TYR:C	1:F:1293:GLN:H	2.20	0.45
1:A:1251:ASN:ND2	1:A:1262:ALA:HB1	2.31	0.45
1:G:2316:GLN:HG2	1:H:2268:LEU:HD11	1.98	0.45
1:H:1405:TYR:O	1:H:1424:PHE:HA	2.17	0.45
1:H:2422:LEU:O	1:H:2423:LEU:HD23	2.17	0.45
1:J:557:ILE:HG22	1:J:558:ASP:O	2.16	0.45
1:H:1051:ILE:HA	1:H:1052:GLY:HA2	1.63	0.45
1:B:2036:PHE:HB3	1:B:2262:TYR:HD1	1.82	0.45
1:A:2382:ASP:HB3	1:E:2403:PRO:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1100:ASN:HB2	1:E:1106:GLY:HA3	1.98	0.45
1:C:1327:TYR:HE2	1:C:1487:VAL:HG11	1.81	0.45
1:C:1122:TYR:CE2	1:C:1146:LYS:HG2	2.52	0.45
1:E:260:ALA:HB1	1:E:434:TYR:HB2	1.98	0.45
1:A:2030:VAL:HG11	1:A:2311:MET:HB2	1.98	0.45
1:J:2360:LEU:HD21	1:J:2367:SER:HA	1.98	0.45
1:C:1939:ARG:NH2	1:G:396:THR:H	2.14	0.45
1:D:520:ASN:ND2	1:D:528:TYR:H	2.15	0.45
1:F:1082:LEU:HB3	1:G:1205:TYR:CD1	2.51	0.45
1:D:1560:GLU:HA	1:D:1560:GLU:OE2	2.17	0.45
1:B:1889:LEU:HD23	1:B:1889:LEU:HA	1.82	0.45
1:I:2226:SER:O	1:I:2230:GLN:HG3	2.16	0.45
1:D:1122:TYR:CD2	1:D:1146:LYS:HA	2.52	0.45
1:E:2106:ASN:HD21	1:E:2189:ARG:HB2	1.80	0.45
1:D:141:ARG:NH1	1:D:970:TYR:O	2.50	0.45
1:I:1639:LYS:HB2	1:I:1694:LEU:O	2.17	0.45
1:D:1040:TYR:CG	1:D:1953:ASN:HB3	2.51	0.45
1:B:1103:ASN:OD1	1:B:1584:LEU:HD22	2.17	0.45
1:C:1254:ASP:C	1:C:1256:LEU:N	2.69	0.45
1:A:771:ILE:HD11	1:A:804:LEU:HD13	1.99	0.45
1:G:2040:LEU:HD23	1:G:2258:LEU:HD22	1.97	0.45
1:E:1386:ILE:HG13	1:E:1410:TYR:HE1	1.82	0.45
1:F:1972:HIS:HA	1:G:978:SER:OG	2.17	0.45
1:A:353:TYR:CE2	1:A:397:LEU:HB2	2.52	0.45
1:G:830:LEU:HD22	1:G:868:PHE:HB3	1.99	0.45
1:B:1419:GLN:H	1:B:1462:ASN:ND2	2.15	0.45
1:D:520:ASN:HD21	1:D:528:TYR:HB2	1.82	0.45
1:I:778:LEU:HD21	1:I:785:MET:SD	2.57	0.45
1:B:231:MET:HG3	1:B:898:VAL:HG23	1.99	0.45
1:H:612:VAL:O	1:H:799:LEU:HD13	2.17	0.45
1:C:417:GLY:N	1:C:418:SER:HA	2.32	0.45
1:G:1463:LYS:HA	1:G:1464:PRO:HD2	1.87	0.45
1:G:371:LYS:HB3	1:G:373:ASN:O	2.17	0.45
1:I:1360:ILE:HD13	1:I:1527:GLU:HA	1.98	0.45
1:B:1720:TRP:HD1	1:B:1740:ILE:HD12	1.81	0.45
1:D:1871:LEU:HD12	1:D:1981:LEU:HD21	1.99	0.45
1:I:1732:ILE:HG22	1:I:1733:VAL:N	2.32	0.45
1:B:2141:VAL:O	1:B:2152:SER:HB3	2.17	0.45
1:J:1561:ASP:CG	1:J:1563:ARG:HH21	2.21	0.45
1:I:1248:MET:HE1	1:I:1286:TYR:HB2	1.98	0.44
1:B:2459:GLN:HG3	1:B:2460:PHE:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:595:ALA:HB2	1:B:605:LEU:HG	1.98	0.44
1:C:1294:PHE:HA	1:C:1301:ARG:CB	2.46	0.44
1:F:220:GLN:CG	1:F:886:GLN:HG3	2.40	0.44
1:G:515:PHE:CZ	1:G:528:TYR:HD2	2.35	0.44
1:B:141:ARG:HG3	1:B:142:ARG:N	2.31	0.44
1:B:1974:LEU:HA	1:B:1980:PRO:HA	1.99	0.44
1:C:1495:PRO:HB2	1:C:1514:ASP:HB3	1.98	0.44
1:E:2250:LEU:HD23	1:E:2254:LEU:HD13	1.99	0.44
1:F:1248:MET:HE2	1:F:1283:SER:HA	1.99	0.44
1:H:1649:PRO:CB	1:H:1683:ASP:HA	2.46	0.44
1:I:1868:TYR:CE1	1:I:1970:LEU:HG	2.52	0.44
1:I:614:GLU:HB3	1:I:617:THR:HG22	1.98	0.44
1:C:927:ASN:HD21	1:C:930:GLN:HG3	1.82	0.44
1:D:336:THR:OG1	1:D:527:GLN:HG2	2.17	0.44
1:C:1627:MET:HA	1:C:1630:GLN:HB2	1.98	0.44
1:B:2108:ASN:OD1	1:B:2109:ALA:N	2.50	0.44
1:G:193:ARG:N	1:G:194:PRO:CD	2.80	0.44
1:A:654:MET:HE3	1:A:765:VAL:HG22	1.97	0.44
1:E:557:ILE:HD11	1:E:592:LYS:HE3	1.99	0.44
1:B:1352:TYR:HA	1:B:1535:LEU:O	2.17	0.44
1:D:2336:SER:HB2	1:D:2506:ASP:OD1	2.17	0.44
1:J:348:PHE:CE1	1:J:354:ARG:HD3	2.52	0.44
1:C:2102:LEU:HD13	1:C:2192:TRP:CZ2	2.52	0.44
1:I:1124:ARG:HB2	1:I:1142:SER:O	2.17	0.44
1:D:778:LEU:HA	1:D:781:THR:HG22	1.98	0.44
1:H:1560:GLU:HA	1:H:1560:GLU:OE2	2.17	0.44
1:E:1405:TYR:HD1	1:E:1425:HIS:CD2	2.35	0.44
1:F:2341:TYR:HD1	1:F:2353:LEU:HD13	1.81	0.44
1:C:276:LEU:HD23	1:C:437:LEU:HD13	1.99	0.44
1:F:1067:SER:OG	1:H:2182:SER:OG	2.19	0.44
1:G:586:SER:O	1:G:590:ILE:HG13	2.17	0.44
1:B:2093:GLN:HB2	1:B:2203:LEU:HD22	1.99	0.44
1:D:2239:ALA:HA	1:D:2242:GLN:HG3	1.99	0.44
1:H:1168:TYR:CD2	1:H:1202:HIS:HB3	2.52	0.44
1:C:940:GLU:HG3	1:C:979:ALA:HB2	1.99	0.44
1:G:272:GLU:O	1:G:275:SER:HB3	2.17	0.44
1:G:2125:THR:OG1	1:G:2171:VAL:HG21	2.18	0.44
1:J:159:LEU:HD13	1:J:985:ARG:NH1	2.32	0.44
1:E:1783:LEU:HD13	1:E:1791:GLU:HB3	1.99	0.44
1:D:333:GLU:HG2	1:D:506:ARG:HG3	1.98	0.44
1:G:1103:ASN:OD1	1:G:1584:LEU:HD22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:109:VAL:CG2	1:G:152:GLN:HA	2.47	0.44
1:A:2143:ASN:C	1:B:2151:GLY:HA2	2.38	0.44
1:E:1514:ASP:OD2	1:E:1515:LYS:N	2.50	0.44
1:J:1438:ILE:HB	1:J:1441:ALA:HB3	1.99	0.44
1:D:1696:ASP:N	1:D:1696:ASP:OD2	2.48	0.44
1:F:1942:ASN:HD22	1:F:1942:ASN:C	2.16	0.44
1:A:1857:LEU:HA	1:A:1857:LEU:HD23	1.77	0.44
1:F:2351:PHE:HE2	1:F:2369:GLY:HA3	1.82	0.44
1:E:1312:ILE:HG12	1:E:1574:VAL:HG22	1.98	0.44
1:G:1051:ILE:HA	1:G:1052:GLY:HA2	1.54	0.44
1:A:1416:GLY:HA2	1:A:1417:LEU:HA	1.45	0.44
1:F:994:GLN:O	1:F:998:ASN:ND2	2.50	0.44
1:C:62:TYR:CZ	1:C:66:ILE:HD11	2.52	0.44
1:I:1122:TYR:CD2	1:I:1146:LYS:HA	2.52	0.44
1:J:1021:TRP:NE1	1:J:1026:LYS:HG2	2.33	0.44
1:A:2410:ARG:HE	1:A:2515:ILE:HD11	1.81	0.44
1:J:594:LEU:HD23	1:J:594:LEU:HA	1.88	0.44
1:G:991:ALA:HA	1:G:994:GLN:OE1	2.17	0.44
1:I:1400:ASN:ND2	1:I:1478:GLY:O	2.50	0.44
1:D:1236:CYS:H	1:D:1303:ASN:ND2	2.14	0.44
1:C:1163:TYR:HB2	1:C:1245:LEU:HD12	1.98	0.44
1:A:211:ILE:HG21	1:A:239:ILE:HD13	1.99	0.44
1:D:353:TYR:HE2	1:D:397:LEU:HB2	1.80	0.44
1:E:911:THR:HG22	1:E:913:ALA:H	1.83	0.44
1:H:586:SER:O	1:H:590:ILE:HG13	2.18	0.44
1:C:814:LEU:CD2	1:C:839:MET:HG3	2.47	0.44
1:I:496:LEU:O	1:I:499:CYS:N	2.47	0.44
1:C:503:ILE:HG13	1:C:586:SER:OG	2.17	0.44
1:D:219:GLU:O	1:D:223:ALA:N	2.48	0.44
1:I:832:ALA:C	1:I:834:GLN:H	2.21	0.44
1:A:2349:GLY:O	1:A:2369:GLY:HA2	2.18	0.44
1:F:2019:PHE:CE1	1:F:2280:TYR:HB2	2.53	0.44
1:C:1599:GLN:HB3	1:C:1674:HIS:CE1	2.52	0.44
1:A:1167:LEU:HD22	1:A:1209:TRP:HH2	1.82	0.44
1:E:59:ASN:OD1	1:E:1927:ARG:NH2	2.49	0.44
1:D:75:GLN:NE2	1:D:1895:TYR:HE2	2.15	0.44
1:B:296:PHE:CZ	1:B:444:ILE:HA	2.52	0.44
1:C:18:PHE:HB3	1:C:21:LEU:HB3	1.98	0.44
1:D:18:PHE:HB3	1:D:21:LEU:HB3	1.99	0.44
1:D:2470:LEU:O	1:D:2473:GLU:HG3	2.16	0.44
1:H:663:LEU:O	1:H:663:LEU:HD12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1046:ASP:HA	1:A:1047:PRO:HD3	1.84	0.44
1:F:255:ILE:HD12	1:F:439:LYS:HG3	1.98	0.44
1:B:1351:ILE:HG23	1:B:1537:ILE:HB	1.99	0.44
1:C:1650:TYR:O	1:C:1651:ASN:HB2	2.16	0.44
1:F:612:VAL:O	1:F:799:LEU:HD13	2.18	0.44
1:D:2122:ALA:CB	1:D:2175:GLU:HG2	2.40	0.44
1:H:1260:LYS:HA	1:H:1287:ARG:NH1	2.25	0.44
1:I:1357:LEU:HD12	1:I:1555:PHE:CD2	2.52	0.44
1:F:1375:MET:HG2	1:F:1385:PHE:CE1	2.53	0.44
1:F:1375:MET:HG2	1:F:1385:PHE:HE1	1.82	0.44
1:H:336:THR:HA	1:H:337:ASN:HA	1.69	0.44
1:F:1428:THR:HB	1:F:1430:TYR:CE1	2.52	0.44
1:E:814:LEU:HD22	1:E:838:ALA:HB1	1.99	0.44
1:A:654:MET:O	1:A:796:HIS:CE1	2.71	0.44
1:G:714:TRP:NE1	1:G:794:PRO:HG2	2.32	0.44
1:F:737:LYS:HD3	1:F:746:VAL:HG21	1.99	0.44
1:E:2291:PHE:CD2	1:E:2317:MET:HA	2.52	0.44
1:B:832:ALA:C	1:B:834:GLN:H	2.19	0.44
1:G:99:ARG:NH1	1:G:1947:LEU:HB3	2.32	0.44
1:J:538:LEU:HD21	1:J:551:LEU:HD12	2.00	0.44
1:G:1890:LEU:HB3	1:G:1960:TRP:CH2	2.52	0.44
1:E:755:TYR:O	1:E:758:ALA:HB3	2.18	0.44
1:E:1312:ILE:HD13	1:E:1351:ILE:HD12	1.98	0.44
1:I:123:TYR:CG	1:I:1907:LEU:HD21	2.52	0.44
1:C:1238:GLY:O	1:C:1305:ARG:HG3	2.17	0.44
1:A:1428:THR:HB	1:A:1430:TYR:CE1	2.52	0.44
1:E:1001:LEU:HD11	1:E:1018:PHE:HD2	1.82	0.44
1:D:2138:ALA:O	1:D:2141:VAL:HG22	2.17	0.44
1:H:896:ALA:O	1:H:900:LEU:HG	2.17	0.44
1:F:1108:THR:OG1	1:F:1128:HIS:NE2	2.37	0.44
1:C:484:TYR:CE1	1:C:631:ILE:HG21	2.53	0.44
1:H:1717:ASP:OD2	1:H:1717:ASP:N	2.50	0.44
1:F:984:THR:HG23	1:F:987:ALA:H	1.82	0.44
1:A:697:ALA:HB2	1:A:708:ALA:HB2	1.99	0.44
1:H:308:TYR:CE1	1:H:313:LEU:HB2	2.53	0.44
1:G:1974:LEU:HA	1:G:1980:PRO:HA	1.99	0.44
1:B:1121:TYR:HB2	1:B:1147:ILE:HD11	2.00	0.44
1:D:142:ARG:NE	1:D:168:LEU:HD11	2.33	0.44
1:G:1027:ARG:HH11	1:G:1030:THR:CG2	2.30	0.44
1:H:608:LEU:HG	1:H:648:VAL:HG13	1.99	0.44
1:B:99:ARG:NH1	1:B:1947:LEU:HB3	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:978:SER:HB2	1:G:981:ILE:HG13	2.00	0.44
1:B:2294:PRO:HA	1:B:2295:GLY:HA2	1.75	0.44
1:F:1760:PHE:CD1	1:F:1820:PRO:HG3	2.53	0.44
1:D:2336:SER:O	1:D:2340:VAL:HG23	2.17	0.44
1:F:2046:ARG:HB3	1:F:2251:TYR:CE2	2.52	0.44
1:E:1090:ASN:OD1	1:E:1611:ARG:NH1	2.50	0.44
1:J:604:GLU:HB3	1:J:648:VAL:HG21	1.98	0.44
1:J:298:GLY:HA2	1:J:309:SER:OG	2.17	0.44
1:C:1121:TYR:HB2	1:C:1147:ILE:HD11	1.99	0.44
1:C:1023:LYS:HG3	1:C:1024:TYR:CD1	2.52	0.44
1:C:1589:ASN:OD1	1:C:1590:GLU:N	2.50	0.44
1:F:1732:ILE:HG22	1:F:1733:VAL:N	2.32	0.44
1:A:614:GLU:HG3	1:A:630:LEU:HG	1.99	0.44
1:H:807:PHE:O	1:H:811:VAL:HG23	2.17	0.44
1:F:2422:LEU:O	1:F:2423:LEU:HD23	2.17	0.44
1:F:71:ASN:HA	1:F:72:PRO:HD3	1.74	0.44
1:I:340:GLN:HA	1:I:360:LYS:HB3	1.97	0.44
1:I:1559:ALA:HB2	1:I:1565:LEU:HD21	2.00	0.44
1:A:878:LEU:HA	1:A:878:LEU:HD23	1.75	0.44
1:D:1889:LEU:HA	1:D:1889:LEU:HD23	1.81	0.44
1:H:734:LEU:HA	1:H:734:LEU:HD23	1.76	0.44
1:G:873:SER:O	1:G:877:ILE:HG13	2.18	0.44
1:B:1497:LYS:O	1:B:1499:GLN:HG3	2.17	0.44
1:C:1651:ASN:HB3	1:C:1652:LEU:CA	2.48	0.44
1:B:952:ARG:HG3	1:B:953:GLN:HG3	1.99	0.44
1:G:1122:TYR:CD2	1:G:1146:LYS:HA	2.52	0.44
1:D:193:ARG:N	1:D:194:PRO:HD2	2.32	0.44
1:J:41:SER:O	1:J:42:TRP:HB2	2.17	0.44
1:E:1653:SER:H	1:E:1713:LYS:CE	2.27	0.44
1:I:1410:TYR:CE2	1:I:1464:PRO:HB3	2.53	0.44
1:F:1248:MET:HE1	1:F:1286:TYR:HB2	2.00	0.44
1:I:779:PHE:CE2	1:I:804:LEU:HD11	2.52	0.44
1:D:2375:LEU:HD21	1:D:2387:LEU:HD21	1.99	0.44
1:I:1660:TRP:NE1	1:I:1680:GLN:HB3	2.32	0.44
1:D:2009:LEU:HD13	1:D:2294:PRO:HB3	1.98	0.44
1:H:1090:ASN:OD1	1:H:1611:ARG:NH1	2.50	0.44
1:B:32:PHE:HD2	1:B:49:TYR:HD1	1.65	0.44
1:I:1721:TRP:HA	1:I:1740:ILE:HB	1.98	0.44
1:I:326:LYS:HZ2	1:I:430:GLU:HB3	1.82	0.44
1:B:528:TYR:HB2	1:B:550:ILE:HD13	1.99	0.44
1:I:353:TYR:HE2	1:I:397:LEU:HB2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:755:TYR:CE2	1:B:759:LEU:HD11	2.53	0.44
1:C:1085:PHE:CE2	1:C:1767:TYR:HB3	2.53	0.44
1:G:137:TYR:HE2	1:G:139:ASP:HB2	1.81	0.44
1:A:337:ASN:HB3	1:A:339:TYR:O	2.17	0.44
1:G:109:VAL:HG21	1:G:152:GLN:HA	2.00	0.44
1:B:890:ALA:HB2	1:C:559:ASP:HB2	1.99	0.44
1:B:319:ASN:O	1:B:323:GLY:N	2.47	0.44
1:H:99:ARG:HH11	1:H:1947:LEU:HB3	1.82	0.44
1:A:2463:ASP:O	1:A:2466:ASP:HB2	2.17	0.44
1:A:689:LEU:HD21	1:A:716:ASP:OD2	2.18	0.44
1:I:553:ARG:NH2	1:I:556:ASN:OD1	2.50	0.44
1:F:897:LEU:HD11	1:F:922:LEU:HD11	1.99	0.44
1:H:2004:GLN:H	1:H:2300:THR:HG23	1.82	0.44
1:E:1770:GLU:HA	1:E:1774:TYR:HB2	1.99	0.44
1:J:1604:ARG:HG3	1:J:1637:LEU:HD21	2.00	0.44
1:G:2291:PHE:CD2	1:G:2317:MET:HA	2.53	0.44
1:G:1045:ILE:HD11	1:G:1848:TYR:CE1	2.52	0.44
1:A:101:SER:HA	1:B:1429:THR:HG21	1.99	0.44
1:G:112:MET:HG2	1:G:1949:LEU:O	2.18	0.44
1:B:2142:PRO:HB3	1:B:2150:GLY:HA3	1.99	0.44
1:D:36:VAL:HG11	1:D:40:LEU:HD22	1.99	0.44
1:E:1443:ARG:HH22	1:E:1445:LEU:HD21	1.83	0.44
1:J:1516:ASP:HB2	1:J:1532:PHE:HD2	1.82	0.44
1:A:201:HIS:O	1:A:204:TYR:N	2.50	0.44
1:H:2407:GLY:HA3	1:H:2515:ILE:HG23	2.00	0.44
1:A:1868:TYR:OH	1:A:1975:SER:HA	2.17	0.44
1:A:608:LEU:HG	1:A:648:VAL:HG13	1.98	0.44
1:B:749:GLN:HG3	1:B:750:GLU:N	2.33	0.44
1:C:2410:ARG:HE	1:C:2515:ILE:CD1	2.31	0.44
1:D:2377:PHE:HE1	1:D:2387:LEU:HD12	1.83	0.44
1:H:1248:MET:HE1	1:H:1286:TYR:HB2	2.00	0.44
1:H:598:HIS:HB3	1:H:600:LEU:HD13	1.99	0.44
1:F:302:ASN:HB2	1:F:1430:TYR:HB3	2.00	0.44
1:C:1163:TYR:CD2	1:C:1245:LEU:HB2	2.52	0.44
1:I:99:ARG:NH1	1:I:1948:PHE:O	2.51	0.44
1:B:1805:TYR:HD2	1:B:1814:TYR:O	2.01	0.44
1:J:1951:GLN:HG2	1:J:1952:ILE:O	2.16	0.44
1:B:609:LEU:O	1:B:613:GLY:HA2	2.17	0.44
1:C:195:SER:HB3	1:C:198:THR:CG2	2.47	0.44
1:J:59:ASN:OD1	1:J:1927:ARG:NH2	2.50	0.44
1:H:2411:ARG:HG3	1:H:2516:LYS:NZ	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2229:THR:O	1:B:2233:GLN:HG2	2.17	0.44
1:E:1498:VAL:HG21	1:E:1530:TYR:HE2	1.83	0.44
1:H:612:VAL:N	1:H:613:GLY:HA2	2.33	0.44
1:C:129:LEU:HD11	1:C:1018:PHE:CE2	2.52	0.44
1:D:106:PRO:HB3	1:D:1951:GLN:NE2	2.32	0.44
1:H:520:ASN:HD21	1:H:528:TYR:H	1.66	0.44
1:F:2214:ALA:O	1:F:2217:ARG:HB3	2.18	0.44
1:C:707:VAL:O	1:C:711:VAL:HG23	2.18	0.44
1:G:930:GLN:HA	1:G:933:THR:HG22	2.00	0.44
1:G:1668:VAL:HG13	1:G:1669:VAL:H	1.82	0.44
1:H:745:ALA:HB3	1:H:749:GLN:OE1	2.18	0.44
1:H:1559:ALA:HB2	1:H:1565:LEU:HD21	1.98	0.44
1:J:640:TRP:CD2	1:J:802:ILE:HG22	2.53	0.44
1:J:2273:CYS:HB3	1:J:2292:ILE:CD1	2.48	0.44
1:E:984:THR:HG23	1:E:987:ALA:H	1.83	0.44
1:E:1179:LYS:HD2	1:E:1179:LYS:HA	1.73	0.44
1:J:823:ALA:O	1:J:826:GLU:HB2	2.18	0.44
1:H:299:LYS:HE3	1:H:307:GLU:OE1	2.18	0.44
1:C:1668:VAL:HG13	1:C:1669:VAL:H	1.82	0.44
1:F:2375:LEU:HD21	1:F:2387:LEU:HD21	2.00	0.44
1:J:343:VAL:HG22	1:J:410:LEU:HD11	1.99	0.44
1:D:218:LEU:HD11	1:D:239:ILE:HG21	1.99	0.44
1:C:1604:ARG:HE	1:C:1637:LEU:CD2	2.30	0.44
1:I:1660:TRP:CH2	1:I:1928:GLN:HA	2.53	0.44
1:E:1616:ARG:HH22	1:E:1628:GLU:CD	2.21	0.44
1:I:2357:ILE:O	1:I:2361:VAL:HG23	2.17	0.44
1:F:1972:HIS:CB	1:F:1974:LEU:HD13	2.48	0.44
1:I:1683:ASP:HA	1:I:1684:THR:HA	1.72	0.44
1:J:378:LEU:HD22	1:J:395:ILE:HG21	1.99	0.44
1:D:1124:ARG:HB3	1:D:1144:TRP:CE3	2.53	0.44
1:D:370:ILE:HD12	1:D:379:VAL:HB	2.00	0.44
1:A:559:ASP:HB2	1:E:890:ALA:HB2	2.00	0.44
1:C:817:LYS:O	1:C:821:VAL:HG23	2.17	0.44
1:J:278:MET:SD	1:J:1478:GLY:HA2	2.57	0.44
1:C:109:VAL:CG2	1:C:152:GLN:HA	2.48	0.44
1:I:73:GLN:NE2	1:I:1952:ILE:HB	2.33	0.44
1:A:2359:LYS:O	1:A:2363:GLN:HG2	2.18	0.44
1:J:1327:TYR:CE2	1:J:1487:VAL:HG11	2.53	0.44
1:J:901:ASP:HB3	1:J:904:GLN:HB3	2.00	0.44
1:G:255:ILE:HD12	1:G:439:LYS:HG3	2.00	0.44
1:E:1561:ASP:OD1	1:E:1563:ARG:HG2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:22:THR:HG23	1:J:52:ALA:HA	1.99	0.44
1:A:357:TYR:HE2	1:A:368:LEU:HD21	1.83	0.44
1:E:663:LEU:HD13	1:E:668:LYS:HE3	1.98	0.44
1:D:212:GLN:NE2	1:D:240:ASN:HA	2.32	0.44
1:A:176:GLU:HG2	1:A:954:VAL:HG22	2.00	0.44
1:B:2190:GLN:O	1:B:2194:ILE:HG12	2.17	0.44
1:C:798:ALA:O	1:C:802:ILE:HG23	2.18	0.44
1:E:1428:THR:HB	1:E:1430:TYR:CE1	2.53	0.44
1:H:1625:LEU:HD12	1:H:1798:TYR:CD1	2.53	0.44
1:E:2331:VAL:HG13	1:E:2513:TYR:CD2	2.53	0.44
1:I:1361:HIS:CG	1:I:1525:PHE:HD2	2.36	0.44
1:I:431:TYR:HB3	1:I:436:PHE:HB2	1.98	0.44
1:D:2435:TYR:OH	1:D:2480:GLY:HA3	2.17	0.44
1:J:261:GLU:HG2	1:J:434:TYR:CD1	2.52	0.44
1:F:1865:ASP:OD1	1:F:1966:ARG:NH1	2.51	0.44
1:H:784:GLU:H	1:H:784:GLU:HG3	1.45	0.44
1:F:734:LEU:HD23	1:F:734:LEU:HA	1.77	0.44
1:I:1103:ASN:ND2	1:I:1584:LEU:HD22	2.33	0.44
1:G:1416:GLY:HA2	1:G:1417:LEU:HA	1.47	0.44
1:G:2431:ALA:HB3	1:G:2450:VAL:CG1	2.48	0.44
1:J:1291:TYR:C	1:J:1293:GLN:H	2.20	0.44
1:B:2458:GLY:O	1:B:2459:GLN:HG2	2.18	0.44
1:A:138:LEU:HD11	1:A:996:TYR:CE2	2.52	0.44
1:A:1217:VAL:HG22	1:A:1220:LYS:HB2	1.99	0.44
1:J:1419:GLN:HB3	1:J:1462:ASN:OD1	2.18	0.44
1:E:1951:GLN:HG2	1:E:1952:ILE:O	2.17	0.44
1:E:138:LEU:HD11	1:E:996:TYR:CD2	2.52	0.44
1:F:2258:LEU:HB2	1:J:2305:LEU:CD1	2.48	0.44
1:E:192:PHE:CE2	1:E:194:PRO:HG2	2.52	0.44
1:E:1040:TYR:CG	1:E:1953:ASN:HB3	2.52	0.44
1:C:1542:LEU:HD23	1:C:1549:ALA:HB1	1.99	0.44
1:D:355:LEU:HD23	1:D:370:ILE:HD13	2.00	0.44
1:G:1800:TRP:CZ2	1:G:1802:PRO:HG3	2.53	0.44
1:I:557:ILE:HG23	1:I:561:SER:HB2	1.99	0.44
1:H:2065:LEU:HD23	1:H:2065:LEU:HA	1.78	0.44
1:G:1168:TYR:HD2	1:G:1200:LEU:HD21	1.83	0.44
1:F:2413:LYS:O	1:F:2473:GLU:HG2	2.18	0.44
1:A:649:PHE:O	1:A:653:ILE:HG23	2.17	0.44
1:J:1838:ASP:O	1:J:1842:GLN:HG3	2.18	0.44
1:H:1504:ALA:HB2	1:H:1551:ILE:HG12	1.99	0.44
1:D:1127:ASP:OD1	1:D:1129:SER:OG	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:595:ALA:HB2	1:G:605:LEU:HG	2.00	0.44
1:H:15:GLN:HA	1:H:16:CYS:HA	1.82	0.44
1:F:745:ALA:HB3	1:F:749:GLN:OE1	2.17	0.44
1:J:1639:LYS:HG2	1:J:1694:LEU:HB2	2.00	0.44
1:C:614:GLU:HB3	1:C:617:THR:HG22	2.00	0.44
1:F:2326:LYS:HE2	1:F:2516:LYS:HB2	2.00	0.44
1:F:1796:LEU:HD13	1:F:1856:THR:HA	2.00	0.44
1:C:232:HIS:HB2	1:C:903:ILE:HG12	1.98	0.44
1:C:1831:PRO:HG3	1:C:1843:HIS:HB2	2.00	0.44
1:C:29:PHE:HA	1:C:49:TYR:CE1	2.53	0.44
1:D:1616:ARG:NH2	1:D:1628:GLU:OE1	2.44	0.44
1:G:2435:TYR:OH	1:G:2480:GLY:HA3	2.17	0.44
1:F:784:GLU:H	1:F:784:GLU:HG3	1.34	0.44
1:E:807:PHE:O	1:E:811:VAL:HG23	2.18	0.44
1:J:1420:GLY:H	1:J:1462:ASN:ND2	2.15	0.44
1:J:1976:ILE:HD13	1:J:1976:ILE:HA	1.91	0.44
1:G:2329:LEU:HD21	1:H:2447:ALA:HB1	1.98	0.44
1:J:1630:GLN:HG2	1:J:1819:ARG:CB	2.46	0.44
1:C:465:ASN:HD21	1:C:471:ASN:HD22	1.64	0.44
1:C:954:VAL:O	1:C:954:VAL:HG12	2.18	0.44
1:D:1750:LEU:HB3	1:D:1753:ILE:HD12	2.00	0.44
1:E:1628:GLU:H	1:E:1628:GLU:HG3	1.57	0.44
1:E:863:THR:OG1	1:E:866:ASN:OD1	2.19	0.44
1:I:161:THR:HG22	1:I:162:LEU:N	2.33	0.44
1:D:1634:GLU:HG3	1:D:1635:PRO:HD2	1.99	0.44
1:H:477:LYS:HD3	1:H:499:CYS:SG	2.58	0.44
1:C:2059:GLN:HB2	1:D:2233:GLN:NE2	2.33	0.44
1:J:1071:ALA:O	1:J:1074:VAL:HG12	2.18	0.44
1:A:161:THR:C	1:A:163:SER:H	2.20	0.44
1:B:612:VAL:N	1:B:613:GLY:HA2	2.32	0.44
1:D:118:TYR:HB2	1:D:1031:TRP:CZ3	2.53	0.44
1:I:1859:LEU:HD21	1:I:1863:ARG:HH11	1.82	0.44
1:D:456:ILE:HG23	1:D:496:LEU:HD11	1.99	0.44
1:E:161:THR:HG22	1:E:981:ILE:O	2.18	0.44
1:H:1120:GLU:OE1	1:J:2133:LEU:HD11	2.18	0.44
1:B:398:ASN:O	1:B:402:ILE:HG12	2.17	0.44
1:D:102:GLN:NE2	1:D:1901:THR:OG1	2.50	0.44
1:A:1057:MET:HB2	1:A:1770:GLU:OE2	2.18	0.44
1:H:2003:SER:OG	1:J:665:PRO:O	2.36	0.44
1:F:357:TYR:HE2	1:F:368:LEU:HD21	1.81	0.44
1:J:2331:VAL:HG13	1:J:2513:TYR:CD2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:984:THR:HG23	1:B:987:ALA:H	1.83	0.44
1:B:615:GLY:HA2	1:B:616:LYS:C	2.37	0.44
1:E:1617:ALA:HA	1:E:1624:ILE:HD11	2.00	0.44
1:F:974:ASP:HB3	1:F:977:VAL:HG23	2.00	0.44
1:J:1239:TYR:HD2	1:J:1242:GLU:H	1.66	0.44
1:G:298:GLY:HA2	1:G:309:SER:OG	2.18	0.44
1:D:500:ASN:ND2	1:D:624:ASP:OD1	2.42	0.44
1:G:189:LEU:HA	1:G:189:LEU:HD12	1.79	0.44
1:C:1179:LYS:HA	1:C:1179:LYS:HD2	1.77	0.44
1:B:1915:THR:HG23	1:B:1943:THR:O	2.18	0.44
1:B:205:GLU:OE2	1:B:208:ARG:NH1	2.50	0.44
1:E:1805:TYR:HD2	1:E:1814:TYR:O	2.01	0.44
1:F:161:THR:C	1:F:163:SER:H	2.21	0.44
1:J:1656:GLY:HA2	1:J:1657:ASP:HA	1.76	0.44
1:D:1380:LYS:O	1:D:1383:ASP:HB2	2.17	0.44
1:I:1248:MET:CE	1:I:1286:TYR:HB2	2.48	0.43
1:A:220:GLN:CG	1:A:886:GLN:HG3	2.42	0.43
1:D:192:PHE:CE2	1:D:194:PRO:HG2	2.53	0.43
1:J:2433:LEU:HD21	1:J:2484:LEU:HD12	2.00	0.43
1:C:1360:ILE:HD13	1:C:1527:GLU:HA	1.99	0.43
1:H:1627:MET:HA	1:H:1630:GLN:HB2	1.99	0.43
1:G:2410:ARG:CG	1:G:2515:ILE:HG12	2.44	0.43
1:F:314:ILE:CD1	1:F:329:ARG:HG3	2.48	0.43
1:E:2377:PHE:CE1	1:E:2387:LEU:HD12	2.49	0.43
1:H:357:TYR:CE1	1:H:370:ILE:HD11	2.53	0.43
1:E:1338:PRO:HD2	1:E:1354:SER:O	2.18	0.43
1:H:1641:PHE:HD1	1:H:1692:ILE:HB	1.83	0.43
1:E:2422:LEU:H	1:E:2503:THR:HG21	1.83	0.43
1:G:456:ILE:HG23	1:G:496:LEU:HD11	2.00	0.43
1:B:1885:GLN:HA	1:B:1888:HIS:CD2	2.53	0.43
1:E:1656:GLY:HA2	1:E:1657:ASP:HA	1.73	0.43
1:E:832:ALA:C	1:E:834:GLN:H	2.22	0.43
1:I:247:LEU:O	1:I:251:LEU:HG	2.18	0.43
1:I:1125:SER:H	1:I:1142:SER:HB3	1.83	0.43
1:A:1659:ARG:HB3	1:A:1660:TRP:CZ3	2.53	0.43
1:C:1534:ALA:O	1:C:1535:LEU:HD23	2.18	0.43
1:I:1114:SER:OG	1:I:1120:GLU:HB2	2.18	0.43
1:I:121:GLU:HG3	1:I:124:ARG:NH1	2.33	0.43
1:J:2411:ARG:O	1:J:2514:THR:N	2.43	0.43
1:C:102:GLN:HG2	1:D:302:ASN:HD21	1.83	0.43
1:G:361:ASN:OD1	1:G:362:PHE:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1336:ASP:O	1:I:1338:PRO:HD3	2.17	0.43
1:C:2360:LEU:HD21	1:C:2367:SER:HA	1.99	0.43
1:I:273:PRO:HG3	1:I:434:TYR:HE2	1.83	0.43
1:C:2214:ALA:O	1:C:2217:ARG:HB3	2.18	0.43
1:F:65:ARG:NH1	1:F:88:GLU:OE2	2.46	0.43
1:H:2147:PHE:CG	1:I:2147:PHE:HE2	2.36	0.43
1:G:71:ASN:HA	1:G:72:PRO:HD3	1.83	0.43
1:B:2244:LYS:O	1:B:2247:ASN:ND2	2.51	0.43
1:F:42:TRP:O	1:F:42:TRP:CD1	2.71	0.43
1:H:2460:PHE:O	1:H:2461:GLN:C	2.56	0.43
1:C:1296:THR:HG23	1:C:1297:ASN:O	2.17	0.43
1:B:271:ILE:HG21	1:B:281:TYR:OH	2.18	0.43
1:I:497:ILE:O	1:I:590:ILE:HG12	2.19	0.43
1:E:521:THR:HG23	1:E:522:PRO:CD	2.44	0.43
1:I:2433:LEU:O	1:I:2447:ALA:HA	2.19	0.43
1:A:1816:TRP:CZ2	1:A:1849:LYS:HD3	2.53	0.43
1:I:2330:GLU:HB3	1:J:2460:PHE:CE2	2.53	0.43
1:J:2312:LEU:O	1:J:2316:GLN:HG3	2.18	0.43
1:E:1597:GLN:HE21	1:E:1597:GLN:HB2	1.63	0.43
1:J:99:ARG:NH1	1:J:1948:PHE:O	2.51	0.43
1:D:312:GLN:HG3	1:D:329:ARG:NH1	2.33	0.43
1:G:2040:LEU:HB2	1:G:2258:LEU:HD22	2.00	0.43
1:J:129:LEU:HD11	1:J:1018:PHE:CE2	2.53	0.43
1:H:1604:ARG:HB2	1:H:1604:ARG:HE	1.65	0.43
1:J:2429:VAL:O	1:J:2451:SER:HA	2.17	0.43
1:B:1602:ARG:CZ	1:B:1693:PRO:HB2	2.49	0.43
1:J:332:ARG:HD3	1:J:334:TYR:CE1	2.53	0.43
1:B:2238:LEU:CD2	1:B:2242:GLN:HE21	2.32	0.43
1:B:1122:TYR:HD2	1:B:1146:LYS:HA	1.83	0.43
1:D:965:ASP:O	1:D:969:GLN:HG3	2.18	0.43
1:B:283:LYS:HG3	1:B:288:LEU:O	2.18	0.43
1:H:371:LYS:HB3	1:H:373:ASN:O	2.19	0.43
1:J:1248:MET:HE3	1:J:1286:TYR:HD2	1.83	0.43
1:C:1327:TYR:CE2	1:C:1487:VAL:HG11	2.52	0.43
1:C:32:PHE:CD2	1:C:49:TYR:HD1	2.36	0.43
1:D:1616:ARG:HH22	1:D:1628:GLU:CD	2.20	0.43
1:E:1919:HIS:CE1	1:E:1923:ILE:HD11	2.53	0.43
1:H:1503:LYS:HG2	1:H:1508:GLU:HG2	2.00	0.43
1:J:1043:ASN:HD21	1:J:1953:ASN:HB2	1.83	0.43
1:D:682:ASP:HB3	1:D:685:LYS:HB2	2.00	0.43
1:A:1630:GLN:HE22	1:A:1818:VAL:HA	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2431:ALA:HB3	1:I:2450:VAL:HG13	2.00	0.43
1:J:1138:ALA:HB2	1:J:1761:SER:O	2.18	0.43
1:F:2204:LYS:HB3	1:J:2087:LYS:HD3	1.99	0.43
1:H:733:TRP:NE1	1:H:748:THR:HB	2.34	0.43
1:F:2435:TYR:OH	1:F:2480:GLY:HA3	2.18	0.43
1:B:380:ARG:NH1	1:B:382:GLU:OE1	2.50	0.43
1:D:1876:LEU:HD23	1:D:1876:LEU:HA	1.70	0.43
1:J:288:LEU:HD21	1:J:448:ARG:HD2	2.00	0.43
1:G:2014:MET:HG2	1:G:2441:LEU:HB2	2.00	0.43
1:F:615:GLY:HA2	1:F:616:LYS:C	2.38	0.43
1:E:1411:SER:HA	1:E:1415:SER:OG	2.17	0.43
1:F:1816:TRP:HB2	1:F:1822:LEU:CD1	2.48	0.43
1:E:2106:ASN:HB2	1:E:2189:ARG:HH12	1.77	0.43
1:G:1627:MET:HA	1:G:1630:GLN:HB2	2.01	0.43
1:J:1355:PRO:HB3	1:J:1555:PHE:CZ	2.53	0.43
1:I:2410:ARG:HE	1:I:2515:ILE:CD1	2.32	0.43
1:F:1651:ASN:HB3	1:F:1652:LEU:CA	2.46	0.43
1:J:967:LEU:HD23	1:J:975:ASN:ND2	2.33	0.43
1:D:1505:GLY:HA2	1:D:1542:LEU:HA	1.99	0.43
1:H:1777:MET:CE	1:H:1799:VAL:HG11	2.48	0.43
1:I:892:GLN:HE22	1:J:542:SER:N	2.15	0.43
1:E:497:ILE:HD13	1:E:589:TYR:CD2	2.48	0.43
1:J:2442:ALA:HB3	1:J:2445:CYS:HB2	2.00	0.43
1:A:1640:GLY:HA2	1:A:1691:PHE:HE1	1.83	0.43
1:H:33:ARG:CZ	1:H:37:SER:HA	2.48	0.43
1:F:1610:ALA:O	1:F:1614:VAL:HG23	2.18	0.43
1:G:2411:ARG:HG3	1:G:2516:LYS:NZ	2.33	0.43
1:I:1130:LYS:HG3	1:I:1140:ALA:HB2	1.99	0.43
1:C:2043:ILE:HD12	1:C:2254:LEU:HD21	2.00	0.43
1:F:1057:MET:HE2	1:F:1774:TYR:HB3	2.00	0.43
1:H:161:THR:HG22	1:H:162:LEU:N	2.33	0.43
1:C:1367:GLN:HG3	1:C:1368:LYS:N	2.32	0.43
1:D:1071:ALA:O	1:D:1074:VAL:HG12	2.19	0.43
1:C:947:SER:HB2	1:C:975:ASN:HD22	1.82	0.43
1:B:1069:LEU:HD23	1:B:1783:LEU:HD23	1.98	0.43
1:H:2052:LEU:HB2	1:I:2240:PHE:CE2	2.52	0.43
1:A:1973:ASN:HB2	1:A:1982:TYR:HD2	1.84	0.43
1:D:82:ILE:HD13	1:D:1846:MET:HG3	2.00	0.43
1:E:650:GLN:O	1:E:653:ILE:HG12	2.18	0.43
1:F:276:LEU:HA	1:F:281:TYR:CD2	2.53	0.43
1:D:124:ARG:HB2	1:D:1911:ALA:HB1	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2033:LEU:HD22	1:I:2307:GLY:CA	2.49	0.43
1:D:2341:TYR:CD1	1:D:2353:LEU:HD13	2.53	0.43
1:G:2036:PHE:HB3	1:G:2262:TYR:HD1	1.83	0.43
1:H:1447:ASN:ND2	1:H:1456:TYR:O	2.52	0.43
1:H:1098:HIS:HE1	1:H:1103:ASN:HA	1.84	0.43
1:A:566:LEU:HD21	1:A:573:ASN:HD22	1.83	0.43
1:F:1784:LEU:HD23	1:F:1784:LEU:HA	1.87	0.43
1:C:1050:ARG:HG3	1:C:1838:ASP:CG	2.39	0.43
1:J:733:TRP:CD2	1:J:752:ILE:HD12	2.54	0.43
1:A:1295:ASP:HB3	1:A:1301:ARG:HE	1.82	0.43
1:A:1255:THR:HA	1:A:1296:THR:HG21	1.99	0.43
1:B:2433:LEU:O	1:B:2447:ALA:HA	2.19	0.43
1:C:663:LEU:HD12	1:C:663:LEU:O	2.19	0.43
1:D:1293:GLN:O	1:D:1301:ARG:HB3	2.17	0.43
1:F:2442:ALA:CB	1:F:2445:CYS:HB2	2.46	0.43
1:B:250:ILE:HG23	1:B:267:ASN:HD21	1.84	0.43
1:B:2336:SER:O	1:B:2340:VAL:HG23	2.18	0.43
1:A:1797:LYS:HG3	1:A:1801:SER:HB3	2.00	0.43
1:J:1382:GLY:CA	1:J:1491:THR:HB	2.48	0.43
1:D:2187:ARG:HD3	1:D:2190:GLN:OE1	2.18	0.43
1:H:141:ARG:NH1	1:H:970:TYR:O	2.50	0.43
1:H:33:ARG:NE	1:H:42:TRP:CZ2	2.86	0.43
1:I:1179:LYS:HA	1:I:1179:LYS:HD2	1.82	0.43
1:G:1640:GLY:HA2	1:G:1691:PHE:CE1	2.50	0.43
1:C:2258:LEU:HA	1:C:2261:ILE:HG22	1.99	0.43
1:I:1127:ASP:N	1:I:1140:ALA:HB1	2.33	0.43
1:G:1317:SER:HB3	1:G:1336:ASP:HB2	2.00	0.43
1:J:1097:TYR:HB2	1:J:1160:PRO:O	2.19	0.43
1:E:733:TRP:HB3	1:E:752:ILE:HD11	2.00	0.43
1:B:1604:ARG:HH12	1:B:1634:GLU:HB3	1.83	0.43
1:G:458:GLU:CD	1:G:506:ARG:HH22	2.20	0.43
1:J:2258:LEU:HD23	1:J:2258:LEU:O	2.17	0.43
1:G:132:SER:HA	1:G:137:TYR:CG	2.53	0.43
1:H:520:ASN:HD21	1:H:528:TYR:HB2	1.83	0.43
1:F:689:LEU:HD13	1:F:713:LEU:CD2	2.49	0.43
1:D:840:ASN:HB3	1:E:649:PHE:CE2	2.54	0.43
1:E:896:ALA:O	1:E:900:LEU:HG	2.19	0.43
1:B:1975:SER:N	1:B:1979:GLN:O	2.43	0.43
1:F:1639:LYS:HB2	1:F:1694:LEU:O	2.18	0.43
1:A:1424:PHE:HE2	1:A:1434:VAL:HG21	1.84	0.43
1:B:799:LEU:O	1:B:802:ILE:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1101:ILE:HD11	1:C:1311:GLU:HB2	1.99	0.43
1:A:951:ILE:HD11	1:A:967:LEU:HB2	1.99	0.43
1:D:1027:ARG:HH11	1:D:1030:THR:HG21	1.83	0.43
1:H:1097:TYR:CE1	1:H:1161:VAL:HG23	2.53	0.43
1:B:2291:PHE:CD2	1:B:2317:MET:HA	2.53	0.43
1:A:557:ILE:HG22	1:A:558:ASP:O	2.17	0.43
1:B:1421:ARG:HG3	1:B:1458:THR:HG22	1.99	0.43
1:A:1836:ASP:HB3	1:A:1839:ALA:HB3	2.00	0.43
1:J:615:GLY:HA2	1:J:616:LYS:C	2.39	0.43
1:D:2121:ALA:HB2	1:E:2172:MET:HB2	2.00	0.43
1:I:835:LEU:O	1:I:835:LEU:HD23	2.18	0.43
1:B:2448:LEU:HG	1:B:2458:GLY:HA3	2.00	0.43
1:F:534:GLU:HB2	1:F:580:ASN:ND2	2.34	0.43
1:E:534:GLU:HB2	1:E:580:ASN:ND2	2.33	0.43
1:A:2251:TYR:CD1	1:A:2251:TYR:N	2.86	0.43
1:I:1374:LEU:HD21	1:I:1425:HIS:HB2	2.00	0.43
1:E:1093:VAL:H	1:E:1594:GLN:NE2	2.11	0.43
1:B:247:LEU:HD23	1:B:251:LEU:HD11	2.01	0.43
1:E:779:PHE:CE1	1:E:804:LEU:HD21	2.53	0.43
1:C:1459:ASP:CG	1:C:1462:ASN:HB3	2.38	0.43
1:H:1976:ILE:HA	1:H:1976:ILE:HD13	1.92	0.43
1:E:73:GLN:CD	1:E:1952:ILE:HG23	2.39	0.43
1:F:2258:LEU:HA	1:F:2261:ILE:CG2	2.48	0.43
1:E:1268:TYR:CE1	1:E:1278:MET:HG3	2.53	0.43
1:I:1636:GLN:C	1:I:1637:LEU:HD12	2.39	0.43
1:B:1139:ASN:HD21	1:B:1829:SER:HB2	1.84	0.43
1:G:1514:ASP:OD2	1:G:1515:LYS:HG3	2.18	0.43
1:F:1500:ILE:HD11	1:F:1532:PHE:CE1	2.53	0.43
1:B:125:GLU:HG3	1:B:1017:PHE:CG	2.54	0.43
1:F:733:TRP:CG	1:F:752:ILE:HD12	2.53	0.43
1:H:161:THR:HG22	1:H:162:LEU:H	1.83	0.43
1:E:2118:ARG:HB3	1:E:2178:LYS:HB2	2.00	0.43
1:A:810:TRP:O	1:A:814:LEU:HG	2.18	0.43
1:B:1404:PHE:HB2	1:B:1473:MET:CE	2.48	0.43
1:I:1490:ASN:HB3	1:I:1561:ASP:HB3	2.01	0.43
1:H:308:TYR:CD1	1:H:313:LEU:HB2	2.53	0.43
1:F:1639:LYS:HG2	1:F:1694:LEU:HB2	2.00	0.43
1:F:1662:LYS:HD2	1:F:1712:LYS:HE2	1.99	0.43
1:B:130:HIS:CD2	1:B:136:TYR:HB2	2.53	0.43
1:A:2360:LEU:HG	1:A:2366:GLY:HA3	2.00	0.43
1:F:2000:VAL:HG21	1:G:772:ASN:ND2	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:615:GLY:HA2	1:G:616:LYS:C	2.39	0.43
1:G:2282:TRP:HD1	1:G:2469:PHE:CZ	2.36	0.43
1:B:1124:ARG:HD2	1:B:1144:TRP:CZ2	2.53	0.43
1:G:1710:THR:OG1	1:G:1715:PRO:HA	2.18	0.43
1:G:1719:THR:HG23	1:G:1721:TRP:HB2	1.99	0.43
1:C:2128:VAL:HG22	1:D:2165:MET:HB3	2.01	0.43
1:F:1625:LEU:HD12	1:F:1798:TYR:CD1	2.54	0.43
1:J:1625:LEU:HD12	1:J:1798:TYR:CD1	2.54	0.43
1:A:1821:LEU:HD22	1:A:1845:PRO:HB3	1.99	0.43
1:E:2099:TYR:CD2	1:E:2195:GLN:HB3	2.52	0.43
1:G:1784:LEU:HD23	1:G:1784:LEU:HA	1.53	0.43
1:A:1696:ASP:N	1:A:1696:ASP:OD2	2.51	0.43
1:J:30:ASN:O	1:J:34:GLN:HG2	2.19	0.43
1:D:2063:LEU:HA	1:D:2063:LEU:HD23	1.87	0.43
1:J:2004:GLN:H	1:J:2300:THR:HG23	1.83	0.43
1:E:1703:TYR:HB3	1:E:1724:HIS:HB3	2.01	0.43
1:E:1092:LYS:O	1:E:1112:GLY:HA2	2.18	0.43
1:C:1021:TRP:HA	1:C:1025:ASN:HB2	2.01	0.43
1:C:2433:LEU:HA	1:C:2433:LEU:HD23	1.84	0.43
1:C:1659:ARG:HH11	1:C:1929:ASN:CG	2.22	0.43
1:C:220:GLN:HA	1:C:223:ALA:HB3	2.00	0.43
1:H:2145:PHE:HB3	1:H:2146:GLY:HA2	2.00	0.43
1:G:1233:GLY:CA	1:G:1250:TYR:HB2	2.48	0.43
1:C:67:LEU:HD11	1:C:99:ARG:HH21	1.84	0.43
1:J:2106:ASN:OD1	1:J:2107:ILE:HG13	2.19	0.43
1:F:2033:LEU:CD1	1:F:2266:TYR:HA	2.48	0.43
1:A:1358:ARG:NH2	1:A:1527:GLU:OE1	2.47	0.43
1:G:2393:PHE:CE1	1:G:2482:LEU:HB2	2.53	0.43
1:I:1876:LEU:HA	1:I:1876:LEU:HD23	1.77	0.43
1:E:460:ILE:O	1:E:464:VAL:HG23	2.18	0.43
1:F:195:SER:HB3	1:F:198:THR:HG21	1.99	0.43
1:E:1213:ILE:HD13	1:E:1273:MET:HG3	2.00	0.43
1:B:965:ASP:O	1:B:968:TYR:HB3	2.19	0.43
1:J:965:ASP:OD2	1:J:976:GLN:NE2	2.52	0.43
1:G:1805:TYR:OH	1:G:1817:ASN:HB2	2.18	0.43
1:I:2258:LEU:HD23	1:I:2258:LEU:O	2.19	0.43
1:J:2344:LEU:HB2	1:J:2350:PRO:HB3	2.00	0.43
1:I:1210:ASN:ND2	1:I:1211:THR:O	2.51	0.43
1:D:1595:TYR:CD2	1:D:1637:LEU:HB3	2.53	0.43
1:A:622:ILE:HG21	1:A:627:LEU:HD23	2.00	0.43
1:I:832:ALA:HB2	1:I:868:PHE:CE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1069:LEU:HD23	1:G:1069:LEU:HA	1.85	0.43
1:J:1783:LEU:HD23	1:J:1783:LEU:HA	1.85	0.43
1:I:1043:ASN:HD21	1:I:1953:ASN:HB2	1.84	0.43
1:D:73:GLN:NE2	1:D:1952:ILE:HB	2.34	0.43
1:G:814:LEU:HD13	1:G:821:VAL:HG21	2.00	0.43
1:A:465:ASN:OD1	1:A:466:LEU:N	2.49	0.43
1:C:1991:ASP:HA	1:C:1992:PRO:HD2	1.86	0.43
1:J:150:LEU:HB2	1:J:1905:PRO:HD2	1.99	0.43
1:I:739:THR:HA	1:I:740:PRO:HD3	1.88	0.43
1:J:153:GLN:O	1:J:157:ILE:HG12	2.18	0.43
1:B:1732:ILE:HG22	1:B:1733:VAL:N	2.33	0.43
1:F:1211:THR:HG21	1:J:1116:THR:HG23	2.01	0.43
1:B:1561:ASP:OD2	1:B:1563:ARG:NH2	2.52	0.43
1:E:189:LEU:HD12	1:E:189:LEU:HA	1.73	0.43
1:I:1055:LYS:H	1:I:1055:LYS:HG2	1.65	0.43
1:I:1177:ILE:HD12	1:I:1195:ARG:HE	1.84	0.43
1:E:30:ASN:O	1:E:34:GLN:HG2	2.17	0.43
1:D:659:TYR:O	1:D:754:GLN:HG2	2.18	0.43
1:A:2424:GLY:O	1:A:2427:GLN:HB2	2.18	0.43
1:I:2029:MET:HG3	1:I:2272:ARG:CG	2.43	0.43
1:E:745:ALA:HB3	1:E:749:GLN:OE1	2.19	0.43
1:E:2047:GLN:HB2	1:E:2251:TYR:HB3	2.00	0.43
1:D:142:ARG:NH1	1:D:144:ASP:OD2	2.52	0.43
1:A:414:LEU:HB2	1:A:415:PRO:HD2	2.00	0.43
1:G:1651:ASN:CG	1:G:1652:LEU:HA	2.39	0.43
1:E:1287:ARG:O	1:E:1291:TYR:HB3	2.18	0.43
1:H:1660:TRP:NE1	1:H:1680:GLN:HB3	2.33	0.43
1:D:336:THR:HA	1:D:337:ASN:HA	1.79	0.43
1:I:600:LEU:HD23	1:I:605:LEU:HA	1.99	0.43
1:E:1408:TYR:CD2	1:E:1467:LEU:HD12	2.54	0.43
1:G:1371:GLN:O	1:G:1375:MET:HG3	2.19	0.43
1:C:1423:LEU:HD23	1:C:1456:TYR:HB3	2.00	0.43
1:C:1844:ASP:HA	1:C:1845:PRO:HD3	1.80	0.43
1:H:1495:PRO:HB2	1:H:1514:ASP:HB3	2.01	0.43
1:B:1849:LYS:O	1:B:1852:THR:HB	2.18	0.43
1:F:2117:LEU:HD11	1:J:1062:GLN:HG2	2.01	0.43
1:D:1411:SER:HA	1:D:1415:SER:CB	2.49	0.43
1:B:371:LYS:HB3	1:B:373:ASN:O	2.18	0.43
1:H:1516:ASP:HB2	1:H:1532:PHE:HD2	1.82	0.43
1:H:159:LEU:O	1:H:983:THR:N	2.51	0.43
1:E:79:HIS:ND1	1:E:1802:PRO:HB3	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2048:ASP:HB3	1:I:2244:LYS:HE3	2.01	0.43
1:B:776:PHE:O	1:B:780:VAL:HG12	2.18	0.43
1:C:73:GLN:NE2	1:C:1952:ILE:HB	2.34	0.43
1:J:1807:VAL:HB	1:J:1812:GLN:OE1	2.19	0.43
1:I:1101:ILE:HD11	1:I:1311:GLU:HB2	2.01	0.43
1:D:1589:ASN:OD1	1:D:1590:GLU:N	2.49	0.43
1:D:586:SER:O	1:D:590:ILE:HG13	2.19	0.43
1:H:153:GLN:O	1:H:157:ILE:HG12	2.19	0.43
1:J:1772:PHE:O	1:J:1776:PRO:HG2	2.19	0.43
1:I:1416:GLY:HA2	1:I:1417:LEU:HA	1.53	0.43
1:A:234:ALA:O	1:A:237:LEU:HB3	2.19	0.43
1:D:1336:ASP:O	1:D:1338:PRO:HD3	2.19	0.43
1:B:1376:ASN:HA	1:B:1525:PHE:CD1	2.54	0.43
1:H:1925:ALA:HB1	1:H:1931:PRO:CG	2.48	0.43
1:D:1994:ALA:HB2	1:E:2065:LEU:HD11	1.99	0.43
1:B:1831:PRO:HG3	1:B:1843:HIS:HB2	1.99	0.43
1:B:1326:ASP:OD2	1:B:1564:LYS:N	2.52	0.43
1:E:995:LEU:HD23	1:E:995:LEU:HA	1.81	0.43
1:D:734:LEU:HA	1:D:734:LEU:HD23	1.81	0.43
1:B:2255:ARG:HG2	1:B:2255:ARG:O	2.19	0.43
1:B:1696:ASP:N	1:B:1696:ASP:OD2	2.50	0.43
1:I:1135:LYS:HB3	1:I:1135:LYS:HE2	1.73	0.43
1:F:2494:LYS:H	1:F:2494:LYS:HD2	1.84	0.43
1:J:593:LEU:HA	1:J:593:LEU:HD23	1.86	0.43
1:D:1717:ASP:N	1:D:1717:ASP:OD2	2.50	0.43
1:C:538:LEU:HD21	1:C:551:LEU:HD12	2.00	0.43
1:I:1885:GLN:HA	1:I:1888:HIS:CD2	2.52	0.43
1:J:1658:GLU:OE1	1:J:1712:LYS:HE3	2.18	0.43
1:E:1544:PHE:HA	1:E:1549:ALA:HB2	2.00	0.43
1:F:18:PHE:HB3	1:F:21:LEU:HB3	2.00	0.43
1:C:2142:PRO:HA	1:C:2150:GLY:HA3	1.99	0.43
1:G:2360:LEU:HG	1:G:2366:GLY:HA3	2.01	0.43
1:J:220:GLN:CG	1:J:886:GLN:HG3	2.41	0.43
1:C:1300:ARG:C	1:C:1301:ARG:HG2	2.39	0.43
1:I:1121:TYR:HB2	1:I:1147:ILE:HD11	2.01	0.43
1:D:1291:TYR:C	1:D:1293:GLN:H	2.21	0.43
1:J:2433:LEU:HD23	1:J:2433:LEU:HA	1.63	0.43
1:A:1898:LEU:HB2	1:B:299:LYS:HB2	2.00	0.43
1:F:1385:PHE:HB2	1:F:1409:GLN:HA	1.99	0.43
1:J:1261:ASN:H	1:J:1287:ARG:NH1	2.17	0.43
1:F:1498:VAL:HG21	1:F:1530:TYR:CE2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:251:LEU:HD13	1:E:446:LEU:HG	2.01	0.43
1:J:1408:TYR:CD2	1:J:1467:LEU:HD12	2.53	0.43
1:C:1177:ILE:HG12	1:D:2145:PHE:CD2	2.52	0.43
1:D:1660:TRP:CH2	1:D:1928:GLN:HA	2.54	0.43
1:I:1475:ASP:HB2	1:I:1479:THR:HB	1.99	0.43
1:D:1357:LEU:HG	1:D:1358:ARG:N	2.33	0.43
1:B:520:ASN:ND2	1:B:528:TYR:H	2.15	0.43
1:D:1972:HIS:HA	1:E:978:SER:HG	1.84	0.43
1:D:1690:LEU:HD23	1:D:1690:LEU:HA	1.85	0.43
1:B:1595:TYR:HB3	1:B:1637:LEU:HD13	2.01	0.43
1:C:1126:VAL:HB	1:C:1141:TRP:CZ3	2.53	0.43
1:C:308:TYR:CE2	1:C:344:GLU:HB3	2.54	0.43
1:A:1836:ASP:O	1:A:1840:VAL:HG23	2.19	0.43
1:D:2129:GLN:O	1:D:2133:LEU:HG	2.18	0.43
1:D:1497:LYS:HB3	1:D:1558:PHE:HB2	2.01	0.43
1:F:1559:ALA:HB2	1:F:1565:LEU:HD21	2.01	0.43
1:J:1224:LEU:HD11	1:J:1249:PHE:HB3	2.00	0.43
1:F:1340:ILE:HD13	1:F:1572:ILE:HD13	2.01	0.43
1:J:142:ARG:HD2	1:J:971:LEU:O	2.19	0.43
1:E:586:SER:O	1:E:590:ILE:HG13	2.19	0.43
1:H:450:THR:HG21	1:H:478:VAL:HG11	2.00	0.43
1:F:503:ILE:HG13	1:F:586:SER:OG	2.18	0.43
1:E:1963:LEU:O	1:E:1967:VAL:HG23	2.19	0.43
1:J:1437:TRP:CZ3	1:J:1439:PRO:HG3	2.53	0.43
1:I:1363:GLY:HA3	1:I:1369:ARG:HA	2.01	0.43
1:B:278:MET:SD	1:B:1478:GLY:HA2	2.58	0.43
1:I:814:LEU:HD13	1:I:821:VAL:HG21	2.01	0.43
1:H:2136:ALA:HA	1:H:2156:ALA:HB1	2.01	0.43
1:C:1155:LYS:HE3	1:C:1155:LYS:HB2	1.77	0.43
1:B:2143:ASN:C	1:C:2151:GLY:HA2	2.38	0.43
1:J:195:SER:HB3	1:J:198:THR:OG1	2.19	0.43
1:I:1149:CYS:HB2	1:I:1209:TRP:HB3	1.99	0.43
1:C:524:LEU:H	1:C:525:ASN:HA	1.79	0.43
1:C:220:GLN:CG	1:C:886:GLN:HG3	2.38	0.43
1:F:2144:ILE:HG21	1:J:2144:ILE:HD12	1.99	0.43
1:H:1711:PHE:HD1	1:H:1713:LYS:HG2	1.84	0.43
1:D:2330:GLU:HB3	1:E:2460:PHE:CE2	2.54	0.43
1:A:612:VAL:O	1:A:799:LEU:HD13	2.18	0.43
1:A:799:LEU:O	1:A:802:ILE:HG12	2.19	0.43
1:I:1267:LEU:CD2	1:I:1275:SER:HB2	2.47	0.43
1:E:598:HIS:CB	1:E:600:LEU:HD13	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:353:TYR:HE2	1:H:397:LEU:HB2	1.84	0.43
1:D:2046:ARG:HB3	1:D:2251:TYR:CE2	2.54	0.43
1:I:1261:ASN:H	1:I:1287:ARG:NH1	2.17	0.43
1:I:1260:LYS:CA	1:I:1287:ARG:HH12	2.32	0.43
1:H:2258:LEU:HA	1:H:2261:ILE:CG2	2.48	0.43
1:C:2106:ASN:HD21	1:C:2189:ARG:HB2	1.83	0.43
1:J:2364:GLY:HA2	1:J:2377:PHE:HE2	1.84	0.43
1:A:733:TRP:HE1	1:A:748:THR:HB	1.84	0.43
1:B:170:LEU:HD13	1:B:182:TYR:HD2	1.83	0.43
1:I:1805:TYR:HD2	1:I:1814:TYR:O	2.02	0.43
1:D:2143:ASN:HB3	1:E:2151:GLY:HA2	2.01	0.43
1:J:137:TYR:CE2	1:J:139:ASP:HB2	2.52	0.43
1:H:2088:SER:OG	1:I:2205:GLN:OE1	2.34	0.43
1:G:1163:TYR:CD2	1:G:1245:LEU:HB3	2.53	0.43
1:J:1668:VAL:HG13	1:J:1669:VAL:H	1.84	0.43
1:A:147:SER:HA	1:A:1906:ARG:HE	1.84	0.43
1:B:2331:VAL:HG23	1:C:2451:SER:OG	2.19	0.43
1:D:1416:GLY:HA2	1:D:1417:LEU:HA	1.53	0.43
1:J:983:THR:HG21	1:J:988:GLU:OE1	2.19	0.43
1:C:716:ASP:OD1	1:C:727:ALA:N	2.48	0.43
1:D:896:ALA:O	1:D:900:LEU:HG	2.18	0.43
1:H:1836:ASP:O	1:H:1840:VAL:HG23	2.19	0.43
1:E:158:GLU:OE2	1:E:982:LYS:HE2	2.19	0.43
1:C:1876:LEU:HD23	1:C:1876:LEU:HA	1.75	0.43
1:E:1696:ASP:N	1:E:1696:ASP:OD2	2.52	0.43
1:E:1889:LEU:HA	1:E:1889:LEU:HD23	1.80	0.43
1:F:1097:TYR:CE1	1:F:1161:VAL:HG23	2.54	0.43
1:B:2460:PHE:O	1:B:2461:GLN:C	2.57	0.43
1:E:564:ARG:O	1:E:568:ILE:HG13	2.19	0.43
1:H:1394:ASN:HD22	1:H:1480:ALA:HB1	1.83	0.43
1:G:2145:PHE:HB3	1:G:2146:GLY:HA2	2.01	0.43
1:E:578:ILE:HG22	1:E:580:ASN:N	2.26	0.43
1:D:195:SER:HB3	1:D:198:THR:CG2	2.49	0.43
1:J:1683:ASP:N	1:J:1683:ASP:OD1	2.48	0.43
1:A:1400:ASN:HB3	1:A:1402:LEU:N	2.28	0.43
1:A:278:MET:CE	1:A:1478:GLY:H	2.31	0.43
1:I:414:LEU:HB2	1:I:415:PRO:HD2	2.01	0.43
1:J:2016:LEU:HD23	1:J:2443:ASN:HB3	2.01	0.43
1:C:1177:ILE:CD1	1:C:1195:ARG:HE	2.31	0.43
1:B:1692:ILE:HD13	1:B:1707:VAL:HG21	2.00	0.43
1:J:1386:ILE:HG13	1:J:1410:TYR:HE1	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2121:ALA:HB2	1:B:2172:MET:CB	2.48	0.43
1:I:1381:LEU:HB3	1:I:1523:PRO:HB2	2.01	0.43
1:J:1497:LYS:O	1:J:1499:GLN:HG3	2.18	0.43
1:C:1719:THR:HG23	1:C:1721:TRP:HB2	2.01	0.43
1:C:276:LEU:HA	1:C:281:TYR:HD2	1.83	0.43
1:F:276:LEU:HD23	1:F:437:LEU:HD13	2.00	0.43
1:I:1024:TYR:CD2	1:I:1034:VAL:HG21	2.54	0.43
1:A:707:VAL:O	1:A:711:VAL:HG23	2.19	0.43
1:J:271:ILE:HD13	1:J:952:ARG:HH22	1.84	0.43
1:I:1328:TYR:HB2	1:I:1368:LYS:HG2	2.00	0.43
1:A:124:ARG:HB2	1:A:1911:ALA:HB1	2.01	0.43
1:F:1930:ILE:HB	1:F:1931:PRO:HD3	2.01	0.43
1:F:1040:TYR:CG	1:F:1953:ASN:HB3	2.54	0.43
1:D:615:GLY:HA2	1:D:616:LYS:C	2.38	0.43
1:D:1360:ILE:HD13	1:D:1527:GLU:HA	2.00	0.43
1:C:340:GLN:HA	1:C:360:LYS:HB3	2.00	0.43
1:C:822:LEU:HD23	1:C:822:LEU:HA	1.81	0.43
1:A:2117:LEU:HD23	1:A:2117:LEU:HA	1.83	0.43
1:D:702:LEU:HD23	1:D:702:LEU:O	2.18	0.43
1:G:2129:GLN:HG3	1:G:2164:VAL:HG21	2.00	0.43
1:E:905:SER:HB2	1:E:910:PRO:HD3	2.01	0.43
1:D:739:THR:HA	1:D:740:PRO:HD3	1.89	0.43
1:D:1656:GLY:HA2	1:D:1657:ASP:C	2.40	0.43
1:F:1117:ASP:N	1:G:1211:THR:HG21	2.10	0.42
1:A:1255:THR:CA	1:A:1296:THR:HG21	2.49	0.42
1:F:1295:ASP:HB3	1:F:1301:ARG:HE	1.84	0.42
1:G:1066:GLN:HG2	1:I:2178:LYS:NZ	2.34	0.42
1:C:1255:THR:HA	1:C:1296:THR:HG21	2.00	0.42
1:D:892:GLN:HE22	1:E:541:GLY:C	2.22	0.42
1:C:456:ILE:HG23	1:C:496:LEU:HD11	2.00	0.42
1:E:2247:ASN:HB2	1:E:2250:LEU:H	1.83	0.42
1:G:2433:LEU:HD23	1:G:2433:LEU:HA	1.72	0.42
1:C:2256:GLY:HA3	1:D:698:ALA:HB2	2.00	0.42
1:H:1408:TYR:HE1	1:H:1464:PRO:HA	1.82	0.42
1:C:1163:TYR:CE2	1:C:1245:LEU:HB2	2.53	0.42
1:E:347:PRO:HA	1:E:353:TYR:CD1	2.50	0.42
1:I:71:ASN:HA	1:I:103:TYR:CZ	2.54	0.42
1:G:1361:HIS:CG	1:G:1525:PHE:HD2	2.37	0.42
1:H:2435:TYR:CE1	1:H:2475:ILE:HD13	2.54	0.42
1:E:1122:TYR:HD2	1:E:1146:LYS:HA	1.83	0.42
1:E:1085:PHE:HE2	1:E:1767:TYR:HB3	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:231:MET:CG	1:F:898:VAL:HG23	2.49	0.42
1:C:2327:ARG:NH2	1:D:2470:LEU:HD23	2.34	0.42
1:J:271:ILE:HG21	1:J:952:ARG:HH22	1.84	0.42
1:E:1551:ILE:HB	1:E:1572:ILE:HB	2.01	0.42
1:G:1534:ALA:O	1:G:1535:LEU:HD23	2.19	0.42
1:E:207:VAL:HG13	1:E:922:LEU:HD12	2.01	0.42
1:D:2255:ARG:HG2	1:D:2255:ARG:O	2.18	0.42
1:A:1560:GLU:HA	1:A:1560:GLU:OE2	2.18	0.42
1:I:189:LEU:HD12	1:I:189:LEU:HA	1.67	0.42
1:F:251:LEU:HD23	1:F:442:LYS:HB2	2.00	0.42
1:J:1404:PHE:HB2	1:J:1473:MET:HE3	2.00	0.42
1:E:986:ILE:O	1:E:990:ILE:HG13	2.18	0.42
1:B:564:ARG:O	1:B:568:ILE:HG13	2.19	0.42
1:F:1178:THR:O	1:G:2146:GLY:HA3	2.19	0.42
1:D:192:PHE:HD2	1:D:198:THR:HG21	1.84	0.42
1:D:41:SER:HA	1:D:1552:ASP:OD2	2.19	0.42
1:J:1683:ASP:HA	1:J:1684:THR:HA	1.80	0.42
1:I:2329:LEU:HB2	1:I:2515:ILE:HB	2.01	0.42
1:A:288:LEU:HD23	1:A:288:LEU:HA	1.80	0.42
1:E:2407:GLY:HA3	1:E:2515:ILE:HG23	2.01	0.42
1:A:1805:TYR:CZ	1:A:1817:ASN:HB2	2.53	0.42
1:H:2360:LEU:HD22	1:H:2375:LEU:CD2	2.49	0.42
1:D:2046:ARG:HB3	1:D:2251:TYR:HE2	1.84	0.42
1:E:1254:ASP:C	1:E:1256:LEU:N	2.71	0.42
1:E:1248:MET:CE	1:E:1286:TYR:HB2	2.49	0.42
1:A:1800:TRP:HD1	1:A:1815:GLN:O	2.02	0.42
1:G:714:TRP:CD2	1:G:762:LEU:HD22	2.54	0.42
1:B:769:THR:OG1	1:B:771:ILE:HG13	2.19	0.42
1:H:2336:SER:O	1:H:2340:VAL:HG23	2.20	0.42
1:I:1473:MET:HB2	1:I:1473:MET:HE3	1.88	0.42
1:G:940:GLU:HG3	1:G:979:ALA:HB2	2.00	0.42
1:A:206:ASN:ND2	1:A:919:ALA:HB1	2.35	0.42
1:H:1468:LYS:O	1:H:1486:PRO:HG3	2.19	0.42
1:J:260:ALA:HB1	1:J:434:TYR:HB2	2.00	0.42
1:F:251:LEU:HD13	1:F:446:LEU:HG	2.00	0.42
1:G:150:LEU:HB2	1:G:1905:PRO:HD2	2.01	0.42
1:C:371:LYS:HA	1:C:377:GLU:HA	2.01	0.42
1:C:2237:GLN:O	1:C:2240:PHE:HB3	2.19	0.42
1:C:1264:MET:HB2	1:C:1283:SER:OG	2.19	0.42
1:J:201:HIS:CD2	1:J:912:TYR:CE2	3.07	0.42
1:D:1400:ASN:HB3	1:D:1402:LEU:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:901:ASP:HB3	1:D:904:GLN:HB3	1.99	0.42
1:E:778:LEU:HD22	1:E:786:PHE:HE1	1.84	0.42
1:H:2203:LEU:O	1:H:2207:ASP:HB2	2.18	0.42
1:G:1803:SER:OG	1:H:1001:LEU:O	2.23	0.42
1:C:1378:TYR:HE1	1:C:1454:ASP:HB3	1.84	0.42
1:B:739:THR:HA	1:B:740:PRO:HD3	1.88	0.42
1:D:2291:PHE:CD2	1:D:2317:MET:HA	2.53	0.42
1:I:376:ARG:H	1:I:376:ARG:HG3	1.55	0.42
1:A:1784:LEU:HA	1:A:1784:LEU:HD23	1.81	0.42
1:F:1696:ASP:N	1:F:1696:ASP:OD2	2.51	0.42
1:D:557:ILE:HG22	1:D:558:ASP:O	2.19	0.42
1:G:218:LEU:HD21	1:G:239:ILE:HG21	1.99	0.42
1:A:2000:VAL:HG11	1:B:772:ASN:ND2	2.34	0.42
1:A:1326:ASP:OD2	1:A:1564:LYS:N	2.52	0.42
1:A:42:TRP:CD1	1:A:42:TRP:O	2.69	0.42
1:H:2256:GLY:HA3	1:I:698:ALA:HB2	2.01	0.42
1:J:1158:ILE:HG13	1:J:1171:TRP:HB3	2.01	0.42
1:B:1972:HIS:HB2	1:B:1974:LEU:HD13	2.01	0.42
1:H:192:PHE:O	1:H:198:THR:HG23	2.20	0.42
1:A:2046:ARG:HB3	1:A:2251:TYR:CE2	2.54	0.42
1:A:1385:PHE:CB	1:A:1409:GLN:HA	2.49	0.42
1:A:1639:LYS:HB2	1:A:1694:LEU:O	2.19	0.42
1:E:670:LEU:HD23	1:E:671:LEU:HD23	2.01	0.42
1:C:1237:ALA:O	1:C:1245:LEU:HG	2.18	0.42
1:F:2405:SER:N	1:G:2382:ASP:OD2	2.51	0.42
1:E:1407:VAL:HG13	1:E:1423:LEU:HB2	2.01	0.42
1:B:2040:LEU:HA	1:B:2258:LEU:HD23	2.01	0.42
1:C:1736:ASN:O	1:C:1739:SER:HB2	2.20	0.42
1:H:1647:ILE:HD13	1:H:1661:PHE:CZ	2.54	0.42
1:J:464:VAL:CG2	1:J:477:LYS:HD2	2.50	0.42
1:F:1752:ASN:HB3	1:G:1338:PRO:HB2	2.02	0.42
1:H:464:VAL:HG22	1:H:477:LYS:HD2	2.01	0.42
1:C:192:PHE:O	1:C:198:THR:HG23	2.19	0.42
1:G:1179:LYS:HA	1:G:1179:LYS:HD2	1.62	0.42
1:H:2099:TYR:OH	1:I:2194:ILE:HG21	2.20	0.42
1:E:161:THR:O	1:E:162:LEU:HB3	2.19	0.42
1:B:2357:ILE:O	1:B:2361:VAL:HG23	2.19	0.42
1:B:1404:PHE:HB2	1:B:1473:MET:HE3	2.01	0.42
1:D:1027:ARG:NH1	1:D:1030:THR:HG21	2.35	0.42
1:H:1925:ALA:HB1	1:H:1931:PRO:HG3	2.02	0.42
1:B:224:SER:HB2	1:B:879:GLN:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:209:GLU:OE2	1:D:934:LEU:HA	2.18	0.42
1:E:286:TYR:HB3	1:E:288:LEU:HG	2.01	0.42
1:I:1069:LEU:O	1:I:1788:ASN:ND2	2.51	0.42
1:G:623:SER:HB2	1:G:626:GLN:HB2	2.01	0.42
1:G:623:SER:HB2	1:G:626:GLN:CG	2.49	0.42
1:F:1736:ASN:O	1:F:1739:SER:HB2	2.18	0.42
1:B:1995:LEU:HD13	1:C:2231:GLN:CD	2.39	0.42
1:D:1136:PHE:HD2	1:D:1603:THR:HG1	1.67	0.42
1:G:2424:GLY:O	1:G:2427:GLN:HB2	2.19	0.42
1:F:2146:GLY:HA3	1:J:1178:THR:O	2.18	0.42
1:C:721:GLY:HA2	1:C:754:GLN:OE1	2.20	0.42
1:F:189:LEU:HD12	1:F:189:LEU:HA	1.82	0.42
1:B:835:LEU:HD23	1:B:835:LEU:O	2.19	0.42
1:F:406:PHE:N	1:F:406:PHE:CD2	2.84	0.42
1:E:2100:GLY:HA2	1:E:2196:ARG:HD3	2.00	0.42
1:B:2330:GLU:CB	1:C:2459:GLN:HA	2.41	0.42
1:H:1906:ARG:HD3	1:H:1908:ASP:HB3	2.00	0.42
1:C:962:LYS:NZ	1:C:1398:SER:OG	2.43	0.42
1:B:1147:ILE:HD11	1:B:1151:ILE:HD12	2.01	0.42
1:B:2422:LEU:O	1:B:2423:LEU:HD23	2.19	0.42
1:G:1294:PHE:HA	1:G:1301:ARG:CB	2.50	0.42
1:C:99:ARG:HH11	1:C:1947:LEU:HB3	1.84	0.42
1:H:71:ASN:OD1	1:H:73:GLN:HG3	2.19	0.42
1:C:414:LEU:HB2	1:C:415:PRO:HD2	2.02	0.42
1:A:1333:TYR:CB	1:A:1360:ILE:HG13	2.49	0.42
1:E:2411:ARG:O	1:E:2514:THR:N	2.50	0.42
1:A:1355:PRO:HB3	1:A:1555:PHE:CZ	2.55	0.42
1:H:1410:TYR:CZ	1:H:1464:PRO:HB3	2.54	0.42
1:I:1138:ALA:HB2	1:I:1761:SER:O	2.19	0.42
1:A:952:ARG:HG3	1:A:953:GLN:HG3	2.01	0.42
1:J:1381:LEU:HD22	1:J:1491:THR:CG2	2.49	0.42
1:E:1616:ARG:HH22	1:E:1628:GLU:HB2	1.84	0.42
1:A:333:GLU:HG2	1:A:506:ARG:CG	2.49	0.42
1:H:41:SER:OG	1:H:41:SER:O	2.21	0.42
1:J:2497:GLN:O	1:J:2501:LEU:HG	2.20	0.42
1:B:1760:PHE:CE2	1:B:1768:PHE:HB3	2.54	0.42
1:B:1137:ALA:O	1:B:1138:ALA:HB3	2.20	0.42
1:F:353:TYR:CD2	1:F:397:LEU:HD12	2.55	0.42
1:B:832:ALA:HB2	1:B:868:PHE:CE2	2.55	0.42
1:D:2422:LEU:O	1:D:2423:LEU:HD23	2.19	0.42
1:D:1779:VAL:HG11	1:D:1795:TRP:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2273:CYS:HB3	1:D:2292:ILE:HD13	2.01	0.42
1:J:640:TRP:CE3	1:J:802:ILE:HG22	2.54	0.42
1:B:314:ILE:HD13	1:B:329:ARG:HG3	2.01	0.42
1:G:1614:VAL:HG11	1:H:1166:ARG:HB2	2.01	0.42
1:G:697:ALA:HB2	1:G:708:ALA:HB2	2.01	0.42
1:J:1088:VAL:HG11	1:J:1767:TYR:CE1	2.55	0.42
1:F:663:LEU:HD13	1:F:668:LYS:HE3	2.01	0.42
1:F:1470:TYR:HE2	1:F:1482:ASP:HB2	1.82	0.42
1:I:707:VAL:O	1:I:711:VAL:HG23	2.19	0.42
1:H:170:LEU:HD13	1:H:182:TYR:HD2	1.84	0.42
1:B:1363:GLY:HA3	1:B:1369:ARG:HA	2.01	0.42
1:A:1656:GLY:HA2	1:A:1657:ASP:HA	1.71	0.42
1:H:2296:ALA:HB1	1:H:2309:THR:HB	2.00	0.42
1:F:1313:PRO:HG2	1:F:1573:PRO:HD2	2.01	0.42
1:D:2117:LEU:HA	1:D:2117:LEU:HD23	1.77	0.42
1:D:2210:LEU:HD23	1:D:2210:LEU:HA	1.91	0.42
1:I:2255:ARG:HG2	1:I:2255:ARG:O	2.19	0.42
1:I:972:LEU:HD23	1:I:972:LEU:HA	1.85	0.42
1:A:2105:GLU:HG3	1:A:2105:GLU:O	2.19	0.42
1:J:164:LEU:HD23	1:J:164:LEU:HA	1.87	0.42
1:C:1906:ARG:NH1	1:D:389:ILE:HD11	2.35	0.42
1:C:2393:PHE:CE1	1:C:2482:LEU:HB2	2.55	0.42
1:F:1810:GLN:HE22	1:G:1321:ASP:CA	2.22	0.42
1:G:1124:ARG:HD2	1:G:1144:TRP:CZ2	2.54	0.42
1:H:192:PHE:CE2	1:H:194:PRO:HG2	2.54	0.42
1:J:1975:SER:OG	1:J:1976:ILE:N	2.52	0.42
1:J:1139:ASN:HD21	1:J:1829:SER:HB2	1.84	0.42
1:F:1721:TRP:HA	1:F:1740:ILE:HD12	2.00	0.42
1:G:414:LEU:HB2	1:G:415:PRO:HD2	2.01	0.42
1:F:2207:ASP:O	1:F:2210:LEU:HB2	2.20	0.42
1:J:1163:TYR:HB3	1:J:1168:TYR:CE1	2.55	0.42
1:E:32:PHE:CE1	1:E:36:VAL:HG21	2.54	0.42
1:G:195:SER:HB3	1:G:198:THR:CG2	2.49	0.42
1:A:333:GLU:HG2	1:A:506:ARG:HG3	2.01	0.42
1:E:1234:LEU:HD12	1:E:1248:MET:O	2.19	0.42
1:G:1991:ASP:HA	1:G:1992:PRO:HD2	1.90	0.42
1:A:2068:LEU:CD1	1:A:2227:LEU:HB3	2.49	0.42
1:D:371:LYS:HB3	1:D:373:ASN:O	2.20	0.42
1:J:192:PHE:CZ	1:J:194:PRO:HG2	2.54	0.42
1:B:1111:ILE:HG13	1:B:1160:PRO:HG3	2.01	0.42
1:E:2229:THR:O	1:E:2233:GLN:HG2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:947:SER:HB2	1:D:975:ASN:HD22	1.83	0.42
1:C:1097:TYR:HB2	1:C:1160:PRO:O	2.20	0.42
1:C:2161:THR:O	1:C:2165:MET:HG2	2.19	0.42
1:I:2161:THR:O	1:I:2165:MET:HG2	2.19	0.42
1:D:514:GLN:HA	1:D:517:ARG:NH1	2.34	0.42
1:B:296:PHE:CE1	1:B:444:ILE:HG12	2.55	0.42
1:I:261:GLU:HA	1:I:434:TYR:CD1	2.54	0.42
1:J:2136:ALA:HA	1:J:2156:ALA:HB1	2.01	0.42
1:G:1024:TYR:CD2	1:G:1034:VAL:HG21	2.55	0.42
1:E:552:LYS:HD3	1:E:559:ASP:OD1	2.19	0.42
1:A:2291:PHE:CD2	1:A:2317:MET:HA	2.54	0.42
1:J:272:GLU:O	1:J:275:SER:HB3	2.19	0.42
1:D:1544:PHE:HA	1:D:1549:ALA:HB2	2.02	0.42
1:F:308:TYR:CE1	1:F:313:LEU:HB2	2.53	0.42
1:D:822:LEU:HD23	1:D:822:LEU:HA	1.89	0.42
1:E:2063:LEU:HD23	1:E:2063:LEU:HA	1.83	0.42
1:E:865:GLU:HG2	1:E:865:GLU:H	1.70	0.42
1:B:201:HIS:HB3	1:B:204:TYR:HB3	2.00	0.42
1:J:2089:LYS:HB2	1:J:2206:ILE:HG21	2.02	0.42
1:F:2099:TYR:CD2	1:F:2195:GLN:HB3	2.53	0.42
1:A:503:ILE:HG13	1:A:586:SER:OG	2.19	0.42
1:F:431:TYR:HB3	1:F:436:PHE:HB2	2.01	0.42
1:G:1649:PRO:HB3	1:G:1684:THR:CA	2.40	0.42
1:D:2459:GLN:HG3	1:D:2460:PHE:O	2.19	0.42
1:B:1261:ASN:H	1:B:1287:ARG:CZ	2.33	0.42
1:J:947:SER:CB	1:J:975:ASN:HD22	2.33	0.42
1:G:1711:PHE:CE1	1:G:1713:LYS:HE2	2.55	0.42
1:F:296:PHE:CE2	1:F:454:PRO:HG3	2.55	0.42
1:F:1604:ARG:HH12	1:F:1634:GLU:HB3	1.84	0.42
1:D:1280:PRO:HA	1:D:1283:SER:HB3	2.00	0.42
1:G:1597:GLN:HA	1:G:1601:TYR:O	2.19	0.42
1:H:967:LEU:HD23	1:H:975:ASN:ND2	2.35	0.42
1:E:496:LEU:O	1:E:499:CYS:N	2.51	0.42
1:F:1170:LEU:HD23	1:F:1200:LEU:HA	2.01	0.42
1:D:1655:HIS:HB3	1:D:1659:ARG:HA	2.01	0.42
1:D:589:TYR:CE2	1:D:593:LEU:HD11	2.55	0.42
1:I:336:THR:O	1:I:423:ALA:N	2.44	0.42
1:J:193:ARG:N	1:J:194:PRO:HD2	2.35	0.42
1:F:2431:ALA:HB3	1:F:2450:VAL:CG1	2.49	0.42
1:B:195:SER:HB3	1:B:198:THR:HG22	2.02	0.42
1:I:1505:GLY:H	1:I:1542:LEU:HB2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1412:GLY:H	1:D:1415:SER:HB2	1.84	0.42
1:H:27:SER:HB3	1:H:31:GLU:OE1	2.20	0.42
1:E:1649:PRO:HB3	1:E:1684:THR:HA	2.02	0.42
1:J:1468:LYS:O	1:J:1486:PRO:HG3	2.20	0.42
1:E:1001:LEU:HD23	1:E:1001:LEU:HA	1.83	0.42
1:F:72:PRO:O	1:F:75:GLN:HG2	2.20	0.42
1:A:432:ASN:HB3	1:A:435:SER:HB3	2.02	0.42
1:J:130:HIS:CD2	1:J:136:TYR:HB2	2.53	0.42
1:C:983:THR:HG21	1:C:988:GLU:OE1	2.19	0.42
1:C:522:PRO:C	1:C:523:LEU:HD22	2.39	0.42
1:C:571:HIS:ND1	1:C:618:ASN:HB3	2.35	0.42
1:G:53:GLN:O	1:G:56:GLN:HB3	2.19	0.42
1:J:2190:GLN:O	1:J:2193:GLU:HB3	2.20	0.42
1:I:2118:ARG:NH2	1:J:2177:ASP:OD1	2.53	0.42
1:D:908:GLU:N	1:D:908:GLU:OE1	2.53	0.42
1:C:1784:LEU:HA	1:C:1784:LEU:HD23	1.92	0.42
1:B:523:LEU:HA	1:B:523:LEU:HD13	1.86	0.42
1:B:1717:ASP:OD2	1:B:1717:ASP:N	2.52	0.42
1:B:908:GLU:HG2	1:B:908:GLU:O	2.20	0.42
1:G:2408:LYS:HD2	1:G:2408:LYS:HA	1.86	0.42
1:B:822:LEU:HA	1:B:822:LEU:HD23	1.77	0.42
1:C:189:LEU:HD12	1:C:189:LEU:HA	1.78	0.42
1:A:1403:MET:HG3	1:A:1405:TYR:CE2	2.54	0.42
1:D:2199:ALA:O	1:D:2202:GLU:HB3	2.19	0.42
1:I:750:GLU:O	1:I:754:GLN:HG3	2.20	0.42
1:H:1096:ALA:HB3	1:H:1302:VAL:HG22	2.01	0.42
1:F:1991:ASP:HA	1:F:1992:PRO:HD2	1.90	0.42
1:F:610:ILE:O	1:F:613:GLY:HA3	2.19	0.42
1:D:608:LEU:HD23	1:D:608:LEU:HA	1.92	0.42
1:A:1351:ILE:HG23	1:A:1537:ILE:HB	2.01	0.42
1:D:1683:ASP:HA	1:D:1684:THR:HA	1.82	0.42
1:A:2410:ARG:HE	1:A:2515:ILE:CD1	2.33	0.42
1:A:2433:LEU:HB2	1:A:2448:LEU:HB3	2.01	0.42
1:D:1410:TYR:CE2	1:D:1464:PRO:HB3	2.55	0.42
1:H:192:PHE:HE2	1:H:195:SER:HB2	1.84	0.42
1:D:1650:TYR:O	1:D:1651:ASN:CG	2.58	0.42
1:B:758:ALA:O	1:B:761:GLN:HB3	2.20	0.42
1:H:1683:ASP:HA	1:H:1684:THR:HA	1.79	0.42
1:H:471:ASN:H	1:H:474:VAL:HB	1.85	0.42
1:D:1812:GLN:HA	1:E:1322:TYR:OH	2.19	0.42
1:I:2338:ALA:HB2	1:I:2506:ASP:CB	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1400:ASN:ND2	1:C:1478:GLY:O	2.52	0.42
1:H:1408:TYR:CD2	1:H:1467:LEU:HD12	2.54	0.42
1:H:353:TYR:CE2	1:H:402:ILE:HD11	2.55	0.42
1:A:947:SER:HB2	1:A:975:ASN:HD22	1.84	0.42
1:I:1400:ASN:HB3	1:I:1402:LEU:HB2	2.01	0.42
1:B:81:ALA:N	1:B:1816:TRP:HH2	2.16	0.42
1:B:1329:LEU:HD23	1:B:1375:MET:SD	2.60	0.42
1:G:1104:ASP:HA	1:G:1598:TRP:CZ2	2.52	0.42
1:G:192:PHE:HZ	1:G:953:GLN:NE2	2.18	0.42
1:H:141:ARG:HG3	1:H:142:ARG:N	2.34	0.42
1:J:2345:PRO:HG2	1:J:2348:ASN:HB2	2.02	0.42
1:G:608:LEU:HD23	1:G:608:LEU:HA	1.84	0.42
1:F:1122:TYR:CD2	1:F:1146:LYS:HA	2.54	0.42
1:I:2419:LEU:HA	1:I:2419:LEU:HD23	1.87	0.42
1:J:1121:TYR:HB2	1:J:1147:ILE:HD11	2.02	0.42
1:A:1040:TYR:CG	1:A:1953:ASN:HB3	2.54	0.42
1:B:964:ARG:HE	1:B:975:ASN:ND2	2.18	0.42
1:J:2273:CYS:HB3	1:J:2292:ILE:HD13	2.00	0.42
1:J:71:ASN:ND2	1:J:1040:TYR:OH	2.53	0.42
1:C:523:LEU:HA	1:C:523:LEU:HD13	1.93	0.42
1:G:15:GLN:HB3	1:G:16:CYS:HB2	2.02	0.42
1:D:2226:SER:O	1:D:2230:GLN:HG3	2.20	0.42
1:I:951:ILE:HD11	1:I:967:LEU:HB2	2.02	0.42
1:I:1974:LEU:HA	1:I:1980:PRO:HA	2.00	0.42
1:E:615:GLY:HA2	1:E:616:LYS:C	2.40	0.42
1:F:1844:ASP:HA	1:F:1845:PRO:HD3	1.82	0.42
1:A:1736:ASN:O	1:A:1739:SER:HB2	2.19	0.42
1:E:1437:TRP:CZ3	1:E:1439:PRO:HG3	2.54	0.42
1:D:319:ASN:HB3	1:D:322:ASP:HB2	2.01	0.42
1:H:455:THR:HG21	1:H:508:TYR:CD2	2.55	0.42
1:H:1466:ASP:O	1:H:1469:GLN:HB2	2.19	0.42
1:E:1224:LEU:HD11	1:E:1249:PHE:HB3	2.01	0.42
1:B:702:LEU:HD23	1:B:702:LEU:O	2.20	0.42
1:J:784:GLU:HG3	1:J:784:GLU:H	1.45	0.42
1:G:480:LEU:HD23	1:G:480:LEU:HA	1.92	0.42
1:B:1699:LEU:HD23	1:B:1699:LEU:O	2.19	0.42
1:F:1150:PRO:CB	1:H:2157:ILE:HG22	2.49	0.42
1:C:1647:ILE:HD13	1:C:1661:PHE:CE1	2.54	0.42
1:J:830:LEU:HD21	1:J:835:LEU:HD12	2.01	0.42
1:I:1268:TYR:OH	1:I:1286:TYR:OH	2.02	0.42
1:I:2175:GLU:OE2	1:I:2178:LYS:HD3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1093:VAL:HA	1:G:1111:ILE:O	2.20	0.42
1:G:488:TYR:CE1	1:G:597:ILE:HD12	2.54	0.42
1:D:1650:TYR:O	1:D:1651:ASN:CB	2.68	0.42
1:F:1268:TYR:OH	1:F:1286:TYR:OH	2.13	0.42
1:F:1385:PHE:HB3	1:F:1409:GLN:HA	2.00	0.42
1:G:784:GLU:H	1:G:784:GLU:HG3	1.42	0.42
1:G:2046:ARG:HB3	1:G:2251:TYR:CE2	2.55	0.42
1:H:2190:GLN:O	1:H:2193:GLU:HB3	2.19	0.42
1:D:1752:ASN:HB3	1:E:1338:PRO:HB2	2.02	0.42
1:C:714:TRP:HB3	1:C:762:LEU:HD13	2.02	0.42
1:A:1205:TYR:HD1	1:E:1082:LEU:HB3	1.83	0.42
1:A:1353:ILE:O	1:A:1535:LEU:N	2.53	0.42
1:D:1121:TYR:HB2	1:D:1147:ILE:HD11	2.02	0.42
1:F:125:GLU:HB3	1:F:1018:PHE:CE1	2.54	0.42
1:A:308:TYR:CE2	1:A:344:GLU:HB3	2.55	0.42
1:I:1353:ILE:HG22	1:I:1355:PRO:HD3	2.01	0.42
1:C:1561:ASP:OD2	1:C:1563:ARG:NH2	2.53	0.42
1:A:832:ALA:C	1:A:834:GLN:H	2.22	0.42
1:C:276:LEU:HA	1:C:281:TYR:CD2	2.54	0.42
1:F:2423:LEU:HD21	1:F:2500:MET:HA	2.00	0.42
1:F:276:LEU:HA	1:F:281:TYR:HD2	1.85	0.42
1:D:2291:PHE:CB	1:D:2317:MET:HG3	2.49	0.42
1:B:778:LEU:HA	1:B:781:THR:HG22	2.02	0.42
1:C:1039:TYR:O	1:C:1041:PRO:HD3	2.19	0.42
1:A:706:ASN:HB3	1:A:773:GLU:OE1	2.19	0.42
1:E:487:ARG:NE	1:E:635:ASN:HD21	2.17	0.42
1:B:1615:ALA:HA	1:C:1165:SER:HB2	2.01	0.42
1:G:2373:ASN:HA	1:G:2390:SER:O	2.19	0.42
1:J:2431:ALA:HB3	1:J:2450:VAL:CG1	2.50	0.42
1:B:482:LYS:HD2	1:B:485:MET:HE3	2.01	0.42
1:A:371:LYS:HA	1:A:377:GLU:HA	2.01	0.42
1:C:615:GLY:HA2	1:C:616:LYS:C	2.39	0.42
1:D:1885:GLN:HA	1:D:1888:HIS:CD2	2.55	0.42
1:H:1361:HIS:CG	1:H:1525:PHE:HD2	2.38	0.42
1:H:1838:ASP:O	1:H:1842:GLN:HG3	2.19	0.42
1:H:1092:LYS:O	1:H:1112:GLY:HA2	2.20	0.42
1:A:1135:LYS:HE2	1:A:1135:LYS:HB3	1.84	0.42
1:J:663:LEU:HD12	1:J:663:LEU:O	2.20	0.42
1:D:1268:TYR:HE1	1:D:1278:MET:HG3	1.85	0.42
1:H:1400:ASN:HB3	1:H:1402:LEU:HB2	2.02	0.42
1:C:1159:ARG:NH2	1:C:1301:ARG:O	2.25	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2414:GLN:HB3	1:H:2512:ARG:HD2	2.02	0.42
1:J:1021:TRP:CE2	1:J:1026:LYS:HG2	2.55	0.42
1:B:494:THR:O	1:B:497:ILE:HG22	2.20	0.42
1:I:1696:ASP:N	1:I:1696:ASP:OD2	2.50	0.42
1:D:1385:PHE:CB	1:D:1409:GLN:HA	2.49	0.42
1:H:193:ARG:N	1:H:194:PRO:HD2	2.35	0.42
1:F:1267:LEU:HD23	1:F:1268:TYR:N	2.35	0.42
1:C:1260:LYS:HA	1:C:1287:ARG:HH22	1.84	0.42
1:J:2460:PHE:O	1:J:2461:GLN:C	2.58	0.42
1:E:1602:ARG:HD2	1:E:1693:PRO:HB3	2.02	0.42
1:I:300:ALA:CB	1:I:306:GLN:HE21	2.32	0.42
1:F:2089:LYS:NZ	1:F:2207:ASP:OD2	2.35	0.42
1:B:1254:ASP:C	1:B:1256:LEU:N	2.71	0.42
1:H:1445:LEU:HD11	1:H:1467:LEU:HD11	2.01	0.42
1:C:1819:ARG:O	1:C:1822:LEU:HB2	2.20	0.42
1:F:2421:ALA:HB2	1:F:2504:LEU:HD23	2.02	0.42
1:D:2111:GLU:OE1	1:E:2187:ARG:NH2	2.53	0.42
1:F:714:TRP:CD2	1:F:762:LEU:HD22	2.55	0.42
1:G:2047:GLN:HA	1:G:2251:TYR:HD2	1.85	0.42
1:G:1113:LEU:HD13	1:G:1121:TYR:CE2	2.55	0.42
1:G:947:SER:HB2	1:G:975:ASN:HD22	1.84	0.42
1:I:714:TRP:CE3	1:I:762:LEU:HD22	2.55	0.42
1:J:2286:ASP:OD2	1:J:2289:ALA:HB2	2.19	0.42
1:H:555:PHE:O	1:H:557:ILE:HG13	2.19	0.42
1:H:1654:THR:HG22	1:H:1655:HIS:H	1.83	0.42
1:A:2183:GLU:OE1	1:A:2186:ARG:NH1	2.53	0.42
1:C:548:LYS:HG2	1:C:552:LYS:HE2	2.02	0.42
1:H:2147:PHE:CD2	1:I:2147:PHE:HE2	2.38	0.42
1:B:693:ALA:HB3	1:B:694:PRO:HD3	2.01	0.42
1:F:538:LEU:HD13	1:F:562:LEU:HG	2.01	0.42
1:I:2271:ALA:O	1:I:2275:MET:HG3	2.19	0.42
1:B:629:THR:HG23	1:B:632:ARG:NH1	2.35	0.42
1:F:559:ASP:HB2	1:J:890:ALA:HB2	2.00	0.42
1:D:640:TRP:CD2	1:D:802:ILE:HG22	2.55	0.42
1:G:606:ASP:O	1:G:610:ILE:HG13	2.20	0.42
1:F:41:SER:O	1:F:42:TRP:HB3	2.19	0.42
1:B:2414:GLN:HB3	1:B:2512:ARG:HD2	2.02	0.42
1:D:2175:GLU:OE2	1:D:2178:LYS:HD3	2.20	0.42
1:C:534:GLU:HB2	1:C:580:ASN:ND2	2.34	0.42
1:E:2393:PHE:HZ	1:E:2482:LEU:HD12	1.85	0.42
1:D:1966:ARG:HG2	1:D:1976:ILE:CD1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1385:PHE:HB3	1:A:1409:GLN:HA	2.02	0.42
1:E:2046:ARG:HB3	1:E:2251:TYR:CE2	2.55	0.42
1:I:771:ILE:HD11	1:I:804:LEU:HD13	2.01	0.42
1:E:488:TYR:CD2	1:E:597:ILE:HB	2.54	0.42
1:A:2102:LEU:HB3	1:A:2192:TRP:CZ3	2.55	0.42
1:E:41:SER:HA	1:E:1552:ASP:OD2	2.20	0.42
1:B:2442:ALA:CB	1:B:2445:CYS:HB2	2.48	0.42
1:J:1170:LEU:HD21	1:J:1200:LEU:HG	2.01	0.42
1:G:1225:LYS:HD2	1:G:1252:GLN:CD	2.40	0.42
1:C:911:THR:HG22	1:C:913:ALA:H	1.85	0.42
1:I:333:GLU:HG2	1:I:506:ARG:CG	2.50	0.42
1:F:2042:ASN:ND2	1:F:2046:ARG:HD2	2.34	0.42
1:C:2261:ILE:HD13	1:C:2261:ILE:HG21	1.80	0.42
1:G:1357:LEU:HG	1:G:1358:ARG:N	2.34	0.42
1:B:1138:ALA:HB2	1:B:1761:SER:O	2.20	0.42
1:F:1319:ARG:NH2	1:F:1333:TYR:HA	2.33	0.42
1:D:331:THR:O	1:D:426:PHE:HA	2.19	0.42
1:D:964:ARG:HD2	1:D:975:ASN:HD21	1.85	0.42
1:I:1513:ALA:HA	1:I:1532:PHE:CE2	2.54	0.42
1:C:1248:MET:HE1	1:C:1286:TYR:HB2	2.02	0.42
1:D:1163:TYR:CD2	1:D:1245:LEU:HB3	2.55	0.42
1:A:601:THR:HG22	1:A:604:GLU:CD	2.40	0.42
1:D:27:SER:HB3	1:D:31:GLU:OE1	2.20	0.42
1:J:1101:ILE:HD11	1:J:1311:GLU:HB2	2.02	0.42
1:J:725:MET:HG2	1:J:755:TYR:HB2	2.02	0.42
1:J:481:THR:O	1:J:485:MET:HG2	2.19	0.42
1:H:1885:GLN:HA	1:H:1888:HIS:NE2	2.35	0.42
1:C:2351:PHE:HB2	1:C:2356:GLU:HG3	2.01	0.42
1:G:2033:LEU:HD22	1:G:2307:GLY:CA	2.50	0.42
1:D:167:GLU:OE1	1:D:985:ARG:NH2	2.52	0.42
1:I:23:ASP:O	1:I:26:HIS:ND1	2.53	0.42
1:I:905:SER:HB2	1:I:910:PRO:HD3	2.01	0.42
1:H:1850:VAL:O	1:H:1853:PHE:HB3	2.20	0.42
1:C:784:GLU:HG3	1:C:784:GLU:H	1.35	0.42
1:F:575:ASP:N	1:F:575:ASP:OD2	2.53	0.42
1:F:153:GLN:O	1:F:157:ILE:HG12	2.20	0.42
1:I:1092:LYS:O	1:I:1112:GLY:HA2	2.20	0.42
1:B:209:GLU:OE2	1:B:934:LEU:HA	2.20	0.42
1:B:1280:PRO:HA	1:B:1283:SER:HB3	2.00	0.41
1:H:2448:LEU:HG	1:H:2458:GLY:HA3	2.01	0.41
1:G:1639:LYS:HB2	1:G:1694:LEU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1422:LEU:HD22	1:A:1445:LEU:HD12	2.02	0.41
1:A:1639:LYS:CG	1:A:1694:LEU:HB2	2.46	0.41
1:I:1975:SER:OG	1:I:1976:ILE:N	2.53	0.41
1:F:1124:ARG:HD2	1:F:1144:TRP:CZ2	2.55	0.41
1:D:2042:ASN:OD1	1:D:2046:ARG:HD2	2.20	0.41
1:H:355:LEU:HD23	1:H:370:ILE:HD13	2.01	0.41
1:A:947:SER:CB	1:A:975:ASN:HD22	2.33	0.41
1:E:2412:ILE:HG13	1:E:2475:ILE:O	2.19	0.41
1:B:2009:LEU:HA	1:B:2009:LEU:HD12	1.87	0.41
1:E:2281:ARG:HD3	1:E:2289:ALA:O	2.20	0.41
1:H:41:SER:O	1:H:42:TRP:HB2	2.19	0.41
1:I:71:ASN:HA	1:I:72:PRO:HD3	1.78	0.41
1:C:1821:LEU:HD23	1:C:1845:PRO:HB3	2.00	0.41
1:G:714:TRP:CE3	1:G:762:LEU:HD22	2.55	0.41
1:A:995:LEU:HD23	1:A:995:LEU:HA	1.82	0.41
1:B:1656:GLY:HA2	1:B:1657:ASP:HA	1.80	0.41
1:H:2409:ILE:CD1	1:H:2516:LYS:HG3	2.50	0.41
1:H:1779:VAL:HG11	1:H:1795:TRP:CE2	2.54	0.41
1:I:2059:GLN:HE22	1:J:2237:GLN:HE21	1.67	0.41
1:I:1887:LEU:HA	1:I:1887:LEU:HD23	1.91	0.41
1:A:36:VAL:HG12	1:A:40:LEU:HB2	2.02	0.41
1:G:245:PRO:O	1:G:248:PHE:HB3	2.20	0.41
1:H:733:TRP:CD2	1:H:752:ILE:HD12	2.55	0.41
1:C:371:LYS:HB3	1:C:373:ASN:O	2.20	0.41
1:F:1821:LEU:CD2	1:F:1845:PRO:HB3	2.50	0.41
1:B:1671:ASN:OD1	1:B:1699:LEU:HD22	2.19	0.41
1:G:18:PHE:HB3	1:G:21:LEU:HB3	2.02	0.41
1:D:1208:THR:HG21	1:E:2126:THR:HG22	2.02	0.41
1:J:1777:MET:HE1	1:J:1852:THR:HG23	2.02	0.41
1:E:2058:ASN:OD1	1:E:2238:LEU:HD11	2.19	0.41
1:A:1363:GLY:HA3	1:A:1369:ARG:HA	2.01	0.41
1:I:607:LEU:HD22	1:I:652:PHE:CE2	2.54	0.41
1:J:693:ALA:HB3	1:J:694:PRO:HD3	2.01	0.41
1:G:1720:TRP:HE1	1:G:1739:SER:H	1.68	0.41
1:J:896:ALA:O	1:J:900:LEU:HG	2.20	0.41
1:F:1599:GLN:HB3	1:F:1674:HIS:CE1	2.54	0.41
1:F:1640:GLY:HA2	1:F:1691:PHE:HE1	1.85	0.41
1:C:2063:LEU:HD23	1:C:2063:LEU:HA	1.93	0.41
1:B:2325:ASP:OD1	1:B:2326:LYS:N	2.53	0.41
1:E:28:SER:OG	1:E:31:GLU:HG3	2.19	0.41
1:F:608:LEU:O	1:F:612:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2199:ALA:O	1:G:2202:GLU:HB3	2.19	0.41
1:D:193:ARG:N	1:D:194:PRO:CD	2.84	0.41
1:D:1868:TYR:CG	1:D:1976:ILE:HG12	2.55	0.41
1:I:1639:LYS:NZ	1:I:1696:ASP:HA	2.35	0.41
1:I:1711:PHE:HD1	1:I:1713:LYS:CG	2.33	0.41
1:C:1494:SER:HA	1:C:1495:PRO:HD3	1.91	0.41
1:D:71:ASN:HA	1:D:103:TYR:CZ	2.55	0.41
1:H:2244:LYS:HE2	1:H:2246:SER:O	2.20	0.41
1:A:1797:LYS:O	1:A:1805:TYR:OH	2.24	0.41
1:E:2430:GLN:N	1:E:2497:GLN:OE1	2.49	0.41
1:E:2497:GLN:O	1:E:2501:LEU:HG	2.19	0.41
1:I:719:GLN:HA	1:I:725:MET:O	2.19	0.41
1:G:962:LYS:HG3	1:G:1401:LYS:HG2	2.01	0.41
1:G:897:LEU:HD21	1:G:922:LEU:HD11	2.02	0.41
1:C:2118:ARG:NH1	1:C:2177:ASP:HB3	2.35	0.41
1:E:353:TYR:CE2	1:E:397:LEU:HB2	2.55	0.41
1:F:195:SER:HB3	1:F:198:THR:CG2	2.50	0.41
1:D:497:ILE:HG21	1:D:589:TYR:CD2	2.55	0.41
1:J:496:LEU:O	1:J:499:CYS:N	2.48	0.41
1:F:1355:PRO:HG2	1:F:1500:ILE:HD13	2.00	0.41
1:A:2420:PRO:HD2	1:A:2506:ASP:O	2.19	0.41
1:J:111:SER:OG	1:J:114:SER:N	2.53	0.41
1:B:2337:LEU:HG	1:B:2507:ILE:HB	2.01	0.41
1:I:2337:LEU:HG	1:I:2507:ILE:HB	2.02	0.41
1:H:1116:THR:HG22	1:H:1118:ALA:H	1.85	0.41
1:E:1491:THR:HG21	1:E:1525:PHE:CE2	2.55	0.41
1:E:1790:ASP:OD1	1:E:1863:ARG:NH2	2.53	0.41
1:F:2147:PHE:CD2	1:G:2147:PHE:HE2	2.38	0.41
1:I:283:LYS:HB2	1:I:293:LEU:HD22	2.02	0.41
1:D:1668:VAL:HG21	1:D:1693:PRO:HG2	2.02	0.41
1:E:433:GLN:HG3	1:E:434:TYR:CD2	2.55	0.41
1:B:1069:LEU:HD13	1:B:1786:GLU:HG3	2.02	0.41
1:B:1783:LEU:HD13	1:B:1791:GLU:HB3	2.02	0.41
1:F:2000:VAL:HG21	1:G:772:ASN:CG	2.41	0.41
1:C:372:LEU:HD23	1:C:373:ASN:OD1	2.20	0.41
1:A:1621:ILE:HA	1:A:1624:ILE:HG13	2.02	0.41
1:B:566:LEU:HD21	1:B:573:ASN:HD22	1.85	0.41
1:E:109:VAL:CG2	1:E:152:GLN:HA	2.50	0.41
1:I:615:GLY:HA2	1:I:616:LYS:C	2.41	0.41
1:J:1779:VAL:HG11	1:J:1795:TRP:CD2	2.55	0.41
1:G:845:LEU:HD21	1:G:881:VAL:HG13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1773:TYR:O	1:F:1776:PRO:HD2	2.20	0.41
1:J:1257:ASP:OD1	1:J:1258:SER:N	2.46	0.41
1:C:1225:LYS:H	1:C:1225:LYS:HG2	1.65	0.41
1:B:1710:THR:HG23	1:B:1710:THR:O	2.21	0.41
1:G:734:LEU:HD23	1:G:734:LEU:HA	1.84	0.41
1:H:2117:LEU:HD23	1:H:2117:LEU:HA	1.87	0.41
1:A:71:ASN:HA	1:A:72:PRO:HD3	1.69	0.41
1:B:760:ALA:O	1:B:763:GLU:HB3	2.20	0.41
1:C:298:GLY:HA2	1:C:309:SER:OG	2.20	0.41
1:G:1289:ASN:HB2	1:G:1306:TYR:CE2	2.55	0.41
1:I:1844:ASP:HA	1:I:1845:PRO:HD3	1.88	0.41
1:H:772:ASN:OD1	1:H:773:GLU:N	2.53	0.41
1:F:432:ASN:HB3	1:F:435:SER:HB3	2.02	0.41
1:H:1138:ALA:HB2	1:H:1761:SER:O	2.20	0.41
1:C:1117:ASP:OD1	1:C:1118:ALA:N	2.53	0.41
1:E:1394:ASN:ND2	1:E:1480:ALA:HB1	2.36	0.41
1:H:1147:ILE:HD11	1:H:1151:ILE:HD12	2.02	0.41
1:F:553:ARG:HA	1:F:553:ARG:HD2	1.90	0.41
1:F:1147:ILE:HD11	1:F:1151:ILE:HD12	2.02	0.41
1:C:1153:PRO:HB3	1:C:1171:TRP:CD1	2.55	0.41
1:H:2009:LEU:HD12	1:H:2009:LEU:HA	1.86	0.41
1:F:494:THR:O	1:F:497:ILE:HG22	2.20	0.41
1:B:1112:GLY:O	1:B:1121:TYR:HA	2.20	0.41
1:A:2399:ARG:NH2	1:A:2410:ARG:H	2.19	0.41
1:D:1375:MET:HE3	1:D:1375:MET:HB2	1.93	0.41
1:A:610:ILE:O	1:A:613:GLY:HA3	2.20	0.41
1:J:330:ILE:HG12	1:J:428:VAL:HB	2.02	0.41
1:B:193:ARG:HD2	1:B:246:GLU:OE1	2.20	0.41
1:B:1683:ASP:HA	1:B:1684:THR:HA	1.74	0.41
1:E:1284:ASN:HA	1:E:1287:ARG:HD2	2.02	0.41
1:H:1295:ASP:HB3	1:H:1301:ARG:HE	1.84	0.41
1:B:1625:LEU:HD12	1:B:1798:TYR:CG	2.55	0.41
1:B:2108:ASN:ND2	1:C:2183:GLU:OE1	2.53	0.41
1:J:1445:LEU:HD11	1:J:1467:LEU:HD11	2.01	0.41
1:A:2377:PHE:HE1	1:A:2387:LEU:HD12	1.85	0.41
1:A:1648:PRO:HA	1:A:1649:PRO:HD3	1.69	0.41
1:H:283:LYS:HG3	1:H:288:LEU:O	2.20	0.41
1:G:1385:PHE:HB3	1:G:1409:GLN:HA	2.02	0.41
1:F:192:PHE:CZ	1:F:194:PRO:HG2	2.55	0.41
1:J:2486:PHE:HA	1:J:2487:PRO:HD3	1.90	0.41
1:I:1090:ASN:HD21	1:I:1610:ALA:HB3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1704:HIS:CD2	1:G:1726:VAL:HG23	2.52	0.41
1:E:1400:ASN:HB3	1:E:1402:LEU:HB2	2.02	0.41
1:F:2102:LEU:HB3	1:F:2192:TRP:CE3	2.55	0.41
1:G:2106:ASN:HB2	1:G:2189:ARG:HH12	1.85	0.41
1:C:1178:THR:HB	1:D:2146:GLY:H	1.84	0.41
1:D:2040:LEU:HB2	1:D:2258:LEU:HD22	2.02	0.41
1:D:1074:VAL:HG21	1:D:1779:VAL:HG13	2.01	0.41
1:F:1494:SER:HB2	1:F:1497:LYS:CG	2.50	0.41
1:E:687:ASP:HB3	1:E:690:HIS:CB	2.50	0.41
1:B:308:TYR:CD1	1:B:313:LEU:HB2	2.55	0.41
1:J:2004:GLN:H	1:J:2300:THR:CG2	2.33	0.41
1:G:158:GLU:HB3	1:G:982:LYS:HE2	2.02	0.41
1:C:1790:ASP:OD1	1:C:1863:ARG:NH2	2.53	0.41
1:C:873:SER:O	1:C:877:ILE:HG13	2.20	0.41
1:A:725:MET:HG2	1:A:755:TYR:HB2	2.01	0.41
1:J:406:PHE:CZ	1:J:426:PHE:HB2	2.55	0.41
1:C:607:LEU:HD22	1:C:652:PHE:CE2	2.55	0.41
1:F:930:GLN:HA	1:F:933:THR:HG22	2.02	0.41
1:A:1001:LEU:C	1:A:1003:ASN:H	2.23	0.41
1:E:2067:ASN:O	1:E:2070:ILE:HB	2.21	0.41
1:G:2220:ALA:O	1:G:2223:GLN:HB3	2.20	0.41
1:H:1200:LEU:HD23	1:H:1201:ALA:N	2.35	0.41
1:B:737:LYS:HB3	1:B:746:VAL:HG21	2.00	0.41
1:A:784:GLU:H	1:A:784:GLU:HG3	1.27	0.41
1:I:593:LEU:HD23	1:I:593:LEU:HA	1.80	0.41
1:B:2105:GLU:HG3	1:B:2105:GLU:O	2.20	0.41
1:H:1085:PHE:HE2	1:H:1767:TYR:HB3	1.85	0.41
1:A:693:ALA:HB3	1:A:694:PRO:HD3	2.02	0.41
1:D:1559:ALA:HB2	1:D:1565:LEU:HD21	2.01	0.41
1:I:355:LEU:O	1:I:392:SER:HA	2.20	0.41
1:A:1291:TYR:C	1:A:1293:GLN:H	2.24	0.41
1:G:86:ASN:O	1:G:90:ILE:HG13	2.20	0.41
1:C:604:GLU:HB3	1:C:648:VAL:HG21	2.02	0.41
1:B:138:LEU:N	1:B:138:LEU:HD12	2.34	0.41
1:B:534:GLU:O	1:B:580:ASN:HB2	2.20	0.41
1:F:2073:LYS:NZ	1:G:2218:GLU:HB3	2.35	0.41
1:H:2433:LEU:HD23	1:H:2433:LEU:HA	1.87	0.41
1:I:1371:GLN:O	1:I:1374:LEU:HB2	2.20	0.41
1:F:1286:TYR:O	1:F:1290:SER:OG	2.34	0.41
1:A:1386:ILE:HD12	1:A:1408:TYR:HD1	1.84	0.41
1:A:1445:LEU:HD11	1:A:1467:LEU:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:193:ARG:N	1:B:194:PRO:CD	2.83	0.41
1:F:90:ILE:HA	1:G:1452:ILE:HD12	2.02	0.41
1:F:1972:HIS:HA	1:G:978:SER:HG	1.85	0.41
1:C:336:THR:HA	1:C:337:ASN:HA	1.74	0.41
1:E:345:LEU:HD11	1:E:353:TYR:HB3	2.00	0.41
1:D:733:TRP:CZ3	1:D:738:TYR:HB2	2.55	0.41
1:F:1367:GLN:HG3	1:F:1368:LYS:HD2	2.02	0.41
1:J:1400:ASN:HB3	1:J:1402:LEU:HB2	2.03	0.41
1:F:746:VAL:HG12	1:F:748:THR:H	1.86	0.41
1:C:130:HIS:CD2	1:C:136:TYR:HB2	2.55	0.41
1:A:2422:LEU:O	1:A:2423:LEU:HD23	2.20	0.41
1:C:832:ALA:HB2	1:C:868:PHE:CE2	2.55	0.41
1:J:2040:LEU:HD23	1:J:2258:LEU:HB3	2.01	0.41
1:I:2321:HIS:ND1	1:I:2322:LEU:HD23	2.35	0.41
1:F:118:TYR:HB2	1:F:1031:TRP:CZ3	2.55	0.41
1:C:1973:ASN:O	1:C:1981:LEU:HD13	2.20	0.41
1:C:552:LYS:HD3	1:C:559:ASP:OD1	2.21	0.41
1:D:1616:ARG:NH2	1:D:1628:GLU:HB2	2.34	0.41
1:H:772:ASN:HD22	1:H:822:LEU:HD12	1.85	0.41
1:H:1416:GLY:HA2	1:H:1417:LEU:HA	1.45	0.41
1:C:123:TYR:CG	1:C:1907:LEU:HD21	2.54	0.41
1:G:1088:VAL:HG11	1:G:1767:TYR:CE1	2.55	0.41
1:D:707:VAL:HG23	1:D:773:GLU:OE1	2.20	0.41
1:H:1437:TRP:HD1	1:H:1444:SER:HB3	1.86	0.41
1:B:1991:ASP:HA	1:B:1992:PRO:HD2	1.87	0.41
1:J:2337:LEU:HD22	1:J:2391:VAL:HG21	2.03	0.41
1:J:123:TYR:HE1	1:J:138:LEU:HD22	1.85	0.41
1:G:1732:ILE:HG22	1:G:1733:VAL:N	2.35	0.41
1:E:494:THR:HG23	1:E:593:LEU:HD13	2.01	0.41
1:I:348:PHE:CE1	1:I:354:ARG:HD3	2.56	0.41
1:A:777:ARG:O	1:A:781:THR:HG22	2.20	0.41
1:B:552:LYS:HD3	1:B:559:ASP:OD1	2.21	0.41
1:E:145:LEU:HD13	1:E:993:ILE:HD11	2.02	0.41
1:H:2214:ALA:O	1:H:2217:ARG:HB3	2.20	0.41
1:H:1750:LEU:HA	1:H:1750:LEU:HD23	1.93	0.41
1:G:2063:LEU:HA	1:G:2063:LEU:HD23	1.81	0.41
1:J:2070:ILE:HA	1:J:2070:ILE:HD13	1.92	0.41
1:A:1045:ILE:HD11	1:A:1848:TYR:HE1	1.85	0.41
1:H:1811:ILE:HD11	1:I:1010:SER:HB3	2.02	0.41
1:I:659:TYR:CE2	1:I:758:ALA:HA	2.55	0.41
1:D:1253:GLN:O	1:D:1296:THR:HB	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:749:GLN:O	1:E:753:VAL:N	2.40	0.41
1:I:220:GLN:HA	1:I:223:ALA:HB3	2.03	0.41
1:H:1280:PRO:O	1:H:1284:ASN:ND2	2.51	0.41
1:J:520:ASN:HD21	1:J:528:TYR:N	2.18	0.41
1:D:1385:PHE:HB3	1:D:1409:GLN:HA	2.03	0.41
1:H:2329:LEU:HD11	1:H:2406:LEU:HD22	2.03	0.41
1:H:193:ARG:N	1:H:194:PRO:CD	2.84	0.41
1:I:1291:TYR:C	1:I:1293:GLN:N	2.73	0.41
1:B:1683:ASP:OD1	1:B:1683:ASP:N	2.54	0.41
1:H:1050:ARG:HD3	1:H:1774:TYR:CZ	2.55	0.41
1:B:1408:TYR:CD2	1:B:1467:LEU:HD12	2.55	0.41
1:F:1188:TYR:HH	1:J:1188:TYR:HD1	1.69	0.41
1:A:260:ALA:HB1	1:A:434:TYR:HB2	2.01	0.41
1:G:1338:PRO:HD2	1:G:1354:SER:O	2.20	0.41
1:J:772:ASN:OD1	1:J:773:GLU:N	2.54	0.41
1:F:1057:MET:CE	1:F:1774:TYR:HB3	2.51	0.41
1:D:2059:GLN:HB2	1:E:2233:GLN:NE2	2.36	0.41
1:F:905:SER:CB	1:F:910:PRO:HD3	2.50	0.41
1:B:2059:GLN:HB2	1:C:2233:GLN:CD	2.41	0.41
1:D:273:PRO:HG3	1:D:434:TYR:HE2	1.85	0.41
1:F:341:MET:SD	1:F:343:VAL:HG23	2.61	0.41
1:A:1770:GLU:HA	1:A:1774:TYR:HB2	2.02	0.41
1:F:26:HIS:HE1	1:F:1917:ASN:OD1	2.03	0.41
1:C:1599:GLN:HB3	1:C:1674:HIS:HE1	1.85	0.41
1:C:711:VAL:HG12	1:C:759:LEU:HD22	2.01	0.41
1:H:483:TYR:OH	1:H:487:ARG:HD2	2.21	0.41
1:F:1416:GLY:HA2	1:F:1417:LEU:HA	1.50	0.41
1:J:586:SER:O	1:J:590:ILE:HG13	2.20	0.41
1:F:1051:ILE:HA	1:F:1052:GLY:HA2	1.49	0.41
1:A:545:ASP:HB3	1:A:547:ARG:HG3	2.03	0.41
1:I:1224:LEU:HD11	1:I:1249:PHE:HB3	2.02	0.41
1:H:1732:ILE:HG22	1:H:1733:VAL:N	2.36	0.41
1:D:725:MET:HG2	1:D:755:TYR:HB2	2.03	0.41
1:A:105:ALA:HB2	1:A:1896:LEU:CD1	2.50	0.41
1:A:2058:ASN:OD1	1:A:2238:LEU:HD11	2.21	0.41
1:F:1041:PRO:HG2	1:F:1847:HIS:ND1	2.36	0.41
1:G:2255:ARG:HG2	1:G:2255:ARG:O	2.20	0.41
1:E:1560:GLU:HA	1:E:1560:GLU:OE2	2.20	0.41
1:I:1782:ARG:HA	1:I:1782:ARG:HD2	1.85	0.41
1:H:1069:LEU:HA	1:H:1069:LEU:HD23	1.90	0.41
1:F:1683:ASP:N	1:F:1683:ASP:OD1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:654:MET:SD	1:C:764:MET:HE2	2.61	0.41
1:G:951:ILE:HD11	1:G:967:LEU:HB2	2.02	0.41
1:B:103:TYR:CE1	1:B:1950:PRO:HB2	2.54	0.41
1:D:2213:LEU:HD13	1:D:2216:ARG:NH2	2.34	0.41
1:A:1121:TYR:HB2	1:A:1147:ILE:HD11	2.02	0.41
1:F:2458:GLY:O	1:F:2459:GLN:HG2	2.19	0.41
1:C:2330:GLU:HG2	1:D:2460:PHE:CD2	2.56	0.41
1:J:2144:ILE:HG23	1:J:2149:GLY:O	2.20	0.41
1:A:1157:THR:HG21	1:A:1172:LEU:HB3	2.02	0.41
1:E:2433:LEU:HB2	1:E:2448:LEU:HB3	2.01	0.41
1:E:414:LEU:HB2	1:E:415:PRO:HD2	2.02	0.41
1:C:357:TYR:CE1	1:C:370:ILE:HD11	2.56	0.41
1:G:194:PRO:O	1:G:285:TYR:OH	2.24	0.41
1:A:1683:ASP:HA	1:A:1684:THR:HA	1.67	0.41
1:G:1375:MET:SD	1:G:1385:PHE:HE1	2.43	0.41
1:J:378:LEU:HD13	1:J:395:ILE:HD13	2.01	0.41
1:J:2501:LEU:HA	1:J:2504:LEU:HD12	2.01	0.41
1:J:192:PHE:CE2	1:J:194:PRO:HG2	2.56	0.41
1:I:1097:TYR:CE1	1:I:1161:VAL:HG23	2.55	0.41
1:E:714:TRP:CD1	1:E:718:LEU:HG	2.56	0.41
1:E:1122:TYR:CD2	1:E:1146:LYS:HA	2.55	0.41
1:E:200:TYR:CE1	1:E:205:GLU:HG3	2.56	0.41
1:D:1378:TYR:CD1	1:D:1423:LEU:HD22	2.56	0.41
1:F:2291:PHE:CD2	1:F:2317:MET:HA	2.56	0.41
1:F:2291:PHE:CG	1:F:2317:MET:HG3	2.56	0.41
1:J:398:ASN:ND2	1:J:400:ALA:H	2.19	0.41
1:I:2316:GLN:HG2	1:J:2268:LEU:HD11	2.03	0.41
1:E:129:LEU:HD11	1:E:1018:PHE:CE2	2.56	0.41
1:F:1794:ARG:NH2	1:F:1798:TYR:OH	2.54	0.41
1:F:406:PHE:HE2	1:F:428:VAL:HG12	1.86	0.41
1:E:1825:THR:O	1:E:1827:TRP:N	2.50	0.41
1:D:358:LYS:HD3	1:D:390:GLU:HG2	2.02	0.41
1:A:702:LEU:HD12	1:E:2248:GLN:NE2	2.36	0.41
1:F:1641:PHE:HD1	1:F:1692:ILE:HB	1.86	0.41
1:D:2103:TYR:CE1	1:D:2193:GLU:HB2	2.54	0.41
1:E:1670:ASP:OD1	1:E:1672:ASN:HB2	2.21	0.41
1:H:808:ALA:O	1:H:812:ASN:ND2	2.52	0.41
1:B:537:ASP:OD2	1:B:539:ASN:HB2	2.21	0.41
1:I:1071:ALA:O	1:I:1075:GLU:HG3	2.21	0.41
1:B:1505:GLY:H	1:B:1542:LEU:HB3	1.85	0.41
1:J:1334:ASN:HA	1:J:1568:GLU:OE1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:306:GLN:OE1	1:F:315:THR:HG22	2.20	0.41
1:C:2202:GLU:O	1:C:2205:GLN:HB3	2.20	0.41
1:F:1155:LYS:HE3	1:F:1155:LYS:HB2	1.72	0.41
1:B:734:LEU:HD23	1:B:734:LEU:HA	1.84	0.41
1:D:1732:ILE:HG22	1:D:1733:VAL:N	2.36	0.41
1:J:1836:ASP:HB3	1:J:1839:ALA:HB3	2.01	0.41
1:E:546:TRP:O	1:E:550:ILE:HG13	2.21	0.41
1:H:2129:GLN:HG3	1:H:2164:VAL:CG2	2.51	0.41
1:B:1312:ILE:HD13	1:B:1351:ILE:HD12	2.02	0.41
1:D:1255:THR:CA	1:D:1296:THR:HG21	2.41	0.41
1:D:1711:PHE:HD1	1:D:1713:LYS:HG2	1.85	0.41
1:B:1797:LYS:HG3	1:B:1801:SER:HB3	2.03	0.41
1:B:276:LEU:HA	1:B:281:TYR:CD2	2.55	0.41
1:D:1261:ASN:H	1:D:1287:ARG:CZ	2.33	0.41
1:I:2458:GLY:O	1:I:2459:GLN:HG2	2.20	0.41
1:B:1092:LYS:O	1:B:1112:GLY:HA2	2.20	0.41
1:C:1247:VAL:HG13	1:C:1267:LEU:HB3	2.03	0.41
1:F:1711:PHE:HE2	1:F:1743:HIS:CE1	2.39	0.41
1:D:471:ASN:HB3	1:D:474:VAL:HG23	2.02	0.41
1:J:943:SER:OG	1:J:975:ASN:O	2.37	0.41
1:A:608:LEU:HA	1:A:608:LEU:HD23	1.90	0.41
1:I:398:ASN:C	1:I:400:ALA:H	2.24	0.41
1:E:967:LEU:HD23	1:E:975:ASN:ND2	2.36	0.41
1:D:2360:LEU:HD22	1:D:2375:LEU:CD2	2.50	0.41
1:F:2095:ARG:NH1	1:F:2202:GLU:OE2	2.50	0.41
1:H:598:HIS:HB2	1:H:600:LEU:HD13	2.03	0.41
1:H:1357:LEU:HG	1:H:1358:ARG:N	2.35	0.41
1:D:709:HIS:CE1	1:D:777:ARG:HH22	2.39	0.41
1:I:1426:ARG:NH2	1:I:1452:ILE:HA	2.36	0.41
1:B:1805:TYR:CZ	1:B:1817:ASN:HB2	2.55	0.41
1:H:333:GLU:HG2	1:H:506:ARG:HG3	2.03	0.41
1:C:1368:LYS:O	1:C:1372:CYS:HB2	2.21	0.41
1:I:1544:PHE:N	1:I:1544:PHE:CD1	2.88	0.41
1:C:1088:VAL:HG11	1:C:1767:TYR:CZ	2.55	0.41
1:F:2341:TYR:CD1	1:F:2353:LEU:HD13	2.56	0.41
1:I:1885:GLN:HA	1:I:1888:HIS:NE2	2.35	0.41
1:B:1995:LEU:HD13	1:C:2231:GLN:NE2	2.36	0.41
1:H:706:ASN:HB3	1:H:773:GLU:OE1	2.20	0.41
1:H:1088:VAL:HG11	1:H:1767:TYR:CZ	2.56	0.41
1:E:371:LYS:HA	1:E:377:GLU:HA	2.03	0.41
1:D:2329:LEU:HB3	1:E:2449:ALA:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1096:ALA:HB3	1:F:1302:VAL:HG22	2.02	0.41
1:F:322:ASP:HB2	1:F:324:THR:HG22	2.02	0.41
1:A:950:TYR:O	1:A:955:ALA:HB2	2.21	0.41
1:I:799:LEU:O	1:I:802:ILE:HG12	2.20	0.41
1:J:797:ASP:H	1:J:800:SER:HB2	1.86	0.41
1:F:490:ILE:HD12	1:F:495:ALA:HA	2.03	0.41
1:H:890:ALA:HB2	1:I:559:ASP:HB2	2.02	0.41
1:F:211:ILE:HG21	1:F:239:ILE:HD13	2.03	0.41
1:D:1082:LEU:HA	1:D:1082:LEU:HD23	1.83	0.41
1:I:747:GLU:HG2	1:I:747:GLU:O	2.20	0.41
1:H:1597:GLN:HE21	1:H:1597:GLN:HB2	1.60	0.41
1:E:567:LYS:HA	1:E:567:LYS:HD3	1.91	0.41
1:J:1889:LEU:HD23	1:J:1889:LEU:HA	1.87	0.41
1:A:776:PHE:O	1:A:780:VAL:HG12	2.20	0.41
1:E:2378:GLY:HA2	1:E:2388:GLN:NE2	2.36	0.41
1:H:1579:SER:O	1:H:1581:ASP:N	2.49	0.41
1:J:749:GLN:HG3	1:J:750:GLU:N	2.36	0.41
1:H:2410:ARG:HE	1:H:2515:ILE:CD1	2.33	0.41
1:A:1411:SER:HA	1:A:1415:SER:CB	2.51	0.41
1:A:192:PHE:O	1:A:198:THR:HG23	2.21	0.41
1:I:351:GLU:HG2	1:I:398:ASN:HA	2.03	0.41
1:E:1711:PHE:HE1	1:E:1714:SER:HB3	1.81	0.41
1:E:36:VAL:HG12	1:E:36:VAL:O	2.21	0.41
1:I:1057:MET:HE2	1:I:1774:TYR:HB3	2.03	0.41
1:E:2360:LEU:HD22	1:E:2375:LEU:CD2	2.51	0.41
1:B:1122:TYR:HE2	1:B:1146:LYS:HG2	1.84	0.41
1:F:33:ARG:HA	1:F:36:VAL:HG12	2.01	0.41
1:I:714:TRP:CD1	1:I:718:LEU:HG	2.56	0.41
1:J:822:LEU:HA	1:J:822:LEU:HD23	1.79	0.41
1:I:198:THR:OG1	1:I:199:PRO:HA	2.20	0.41
1:J:1616:ARG:NH2	1:J:1628:GLU:OE1	2.40	0.41
1:B:1208:THR:HG21	1:C:2126:THR:HG22	2.02	0.41
1:H:1857:LEU:HD11	1:H:1890:LEU:HD21	2.02	0.41
1:I:2356:GLU:OE2	1:I:2359:LYS:HD3	2.21	0.41
1:B:2230:GLN:HA	1:B:2233:GLN:CG	2.51	0.41
1:G:306:GLN:OE1	1:G:315:THR:HG22	2.20	0.41
1:H:1355:PRO:HG2	1:H:1500:ILE:HD13	2.02	0.41
1:I:118:TYR:HB2	1:I:1031:TRP:CZ3	2.55	0.41
1:D:109:VAL:CG2	1:D:152:GLN:HA	2.51	0.41
1:J:1725:PHE:CE1	1:J:1735:ILE:HG12	2.55	0.41
1:D:1238:GLY:O	1:D:1305:ARG:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2267:ASP:O	1:C:2270:VAL:HG12	2.21	0.41
1:B:1426:ARG:NH1	1:B:1430:TYR:O	2.45	0.41
1:G:372:LEU:HB2	1:G:378:LEU:HD21	2.03	0.41
1:A:61:LEU:HD11	1:A:1831:PRO:HD2	2.02	0.41
1:I:1007:ASN:OD1	1:I:1008:ALA:N	2.53	0.41
1:I:2296:ALA:HB1	1:I:2309:THR:HB	2.03	0.41
1:D:1639:LYS:HB2	1:D:1694:LEU:O	2.21	0.41
1:D:1179:LYS:HA	1:D:1179:LYS:HD2	1.83	0.41
1:B:2063:LEU:HD23	1:B:2063:LEU:HA	1.91	0.41
1:J:1560:GLU:OE2	1:J:1560:GLU:HA	2.20	0.41
1:H:1876:LEU:HA	1:H:1876:LEU:HD23	1.71	0.41
1:A:876:THR:O	1:A:879:GLN:HB2	2.20	0.41
1:F:1438:ILE:HB	1:F:1441:ALA:HB3	2.03	0.41
1:I:2302:ALA:HB3	1:I:2304:LEU:CG	2.34	0.41
1:G:2330:GLU:CB	1:H:2459:GLN:HA	2.39	0.41
1:B:598:HIS:CB	1:B:600:LEU:HD13	2.51	0.41
1:G:42:TRP:HH2	1:G:1321:ASP:CB	2.29	0.41
1:G:1649:PRO:CB	1:G:1683:ASP:HA	2.51	0.41
1:A:1280:PRO:HA	1:A:1283:SER:HB3	2.03	0.41
1:A:136:TYR:HD2	1:A:141:ARG:NH2	2.19	0.41
1:F:1260:LYS:HB3	1:F:1287:ARG:HH12	1.86	0.41
1:C:2145:PHE:HD1	1:C:2145:PHE:HA	1.70	0.41
1:B:1121:TYR:HB2	1:B:1147:ILE:CD1	2.51	0.41
1:B:2145:PHE:CD1	1:B:2146:GLY:HA2	2.56	0.41
1:B:41:SER:O	1:B:42:TRP:HB2	2.21	0.41
1:E:2393:PHE:CZ	1:E:2482:LEU:HD12	2.56	0.41
1:G:2065:LEU:HA	1:G:2065:LEU:HD23	1.83	0.41
1:F:1711:PHE:CD1	1:F:1713:LYS:HG2	2.56	0.41
1:G:2413:LYS:O	1:G:2473:GLU:HG2	2.21	0.41
1:H:1225:LYS:HG2	1:H:1225:LYS:H	1.58	0.41
1:C:1410:TYR:CE2	1:C:1464:PRO:HB3	2.55	0.41
1:F:363:TYR:CE1	1:F:414:LEU:HD23	2.56	0.41
1:J:276:LEU:HA	1:J:281:TYR:HD2	1.85	0.41
1:D:1805:TYR:CZ	1:D:1817:ASN:HB2	2.55	0.41
1:C:1287:ARG:O	1:C:1291:TYR:HB3	2.21	0.41
1:G:1419:GLN:HB3	1:G:1462:ASN:CG	2.41	0.41
1:G:1459:ASP:CB	1:G:1462:ASN:HB3	2.49	0.41
1:I:521:THR:HG22	1:I:522:PRO:CD	2.51	0.41
1:E:1287:ARG:HG3	1:E:1287:ARG:HH11	1.86	0.41
1:F:892:GLN:NE2	1:G:541:GLY:HA2	2.36	0.41
1:E:1651:ASN:CB	1:E:1652:LEU:HA	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:357:TYR:HE2	1:H:368:LEU:HD21	1.85	0.41
1:I:595:ALA:HB2	1:I:605:LEU:HG	2.03	0.41
1:C:1163:TYR:HB3	1:C:1168:TYR:CD1	2.55	0.41
1:F:2040:LEU:HA	1:F:2258:LEU:HD23	2.03	0.41
1:G:769:THR:OG1	1:G:771:ILE:HG13	2.21	0.41
1:A:796:HIS:CD2	1:A:801:LEU:HD11	2.51	0.41
1:G:1101:ILE:HG21	1:G:1577:LYS:HA	2.03	0.41
1:B:1188:TYR:HB3	1:C:1188:TYR:OH	2.19	0.41
1:D:1655:HIS:CE1	1:D:1659:ARG:HG3	2.56	0.41
1:I:1218:ASN:O	1:I:1221:ILE:HG13	2.20	0.41
1:G:1358:ARG:NH2	1:G:1360:ILE:HD11	2.36	0.41
1:D:1355:PRO:HD2	1:D:1532:PHE:HB2	2.03	0.41
1:G:598:HIS:HB2	1:G:600:LEU:HD13	2.03	0.41
1:A:1381:LEU:HB3	1:A:1523:PRO:HB2	2.02	0.41
1:J:1111:ILE:HD11	1:J:1160:PRO:HB3	2.02	0.41
1:A:609:LEU:HA	1:A:609:LEU:HD23	1.83	0.41
1:J:1023:LYS:HB2	1:J:1023:LYS:HE3	1.85	0.41
1:G:1378:TYR:HB2	1:G:1423:LEU:HD11	2.02	0.41
1:D:1411:SER:N	1:D:1419:GLN:O	2.53	0.41
1:C:1411:SER:HA	1:C:1415:SER:HB2	2.03	0.41
1:C:273:PRO:HG3	1:C:434:TYR:HE2	1.86	0.41
1:A:402:ILE:HG23	1:A:428:VAL:HG13	2.03	0.41
1:H:1500:ILE:HD11	1:H:1532:PHE:CE1	2.55	0.41
1:E:299:LYS:HG2	1:E:309:SER:HB3	2.02	0.41
1:A:206:ASN:O	1:A:210:VAL:HG23	2.20	0.41
1:E:2325:ASP:OD1	1:E:2326:LYS:N	2.53	0.41
1:F:2338:ALA:HB2	1:F:2506:ASP:HB3	2.03	0.41
1:A:23:ASP:O	1:A:26:HIS:ND1	2.50	0.41
1:H:2147:PHE:CG	1:I:2147:PHE:CE2	3.09	0.41
1:D:2341:TYR:HD1	1:D:2353:LEU:HD13	1.84	0.41
1:B:61:LEU:HD13	1:B:1843:HIS:NE2	2.36	0.41
1:I:1888:HIS:HE1	1:J:1002:GLU:OE1	2.03	0.41
1:D:1497:LYS:O	1:D:1499:GLN:HG3	2.21	0.41
1:B:1995:LEU:HB3	1:C:2235:GLN:HG2	2.03	0.41
1:E:593:LEU:HA	1:E:593:LEU:HD23	1.79	0.41
1:B:1428:THR:HB	1:B:1430:TYR:CE1	2.56	0.41
1:B:1959:TYR:HA	1:B:1962:THR:HG22	2.02	0.41
1:E:458:GLU:OE1	1:E:462:ARG:NH2	2.54	0.41
1:C:215:ASP:O	1:C:218:LEU:HD23	2.21	0.41
1:I:2167:PHE:CD1	1:J:2166:GLU:HG2	2.56	0.41
1:B:2099:TYR:CE2	1:B:2195:GLN:HB3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2016:LEU:HD13	1:E:2468:LYS:HD3	2.03	0.41
1:G:1844:ASP:OD2	1:G:1846:MET:HE2	2.20	0.41
1:G:2419:LEU:HD23	1:G:2419:LEU:HA	1.84	0.41
1:G:1677:TYR:CZ	1:G:1688:ILE:HD13	2.55	0.41
1:B:1332:VAL:CG1	1:B:1568:GLU:HG2	2.51	0.41
1:B:406:PHE:N	1:B:406:PHE:CD2	2.88	0.41
1:F:1823:GLU:O	1:F:1823:GLU:HG2	2.21	0.41
1:C:2105:GLU:O	1:C:2105:GLU:HG3	2.21	0.41
1:D:1622:ASP:N	1:D:1622:ASP:OD2	2.53	0.41
1:A:245:PRO:O	1:A:248:PHE:HB3	2.21	0.41
1:F:725:MET:HG2	1:F:755:TYR:HB2	2.03	0.41
1:I:1046:ASP:OD1	1:I:1048:THR:HB	2.21	0.41
1:B:159:LEU:HD12	1:B:985:ARG:HG3	2.02	0.41
1:F:1973:ASN:O	1:F:1981:LEU:HD13	2.21	0.41
1:H:1618:THR:HG21	1:I:1165:SER:HB3	2.03	0.41
1:A:1707:VAL:HB	1:A:1725:PHE:HE2	1.86	0.41
1:A:1959:TYR:HA	1:A:1962:THR:HG22	2.03	0.41
1:A:1211:THR:HB	1:E:1117:ASP:OD2	2.21	0.41
1:H:689:LEU:HD13	1:H:713:LEU:HD23	2.03	0.41
1:E:219:GLU:O	1:E:223:ALA:N	2.54	0.41
1:B:820:SER:HA	1:C:664:THR:HG22	2.02	0.41
1:H:201:HIS:HB3	1:H:204:TYR:HB3	2.02	0.41
1:C:375:LYS:O	1:C:375:LYS:HG3	2.21	0.41
1:J:2063:LEU:HA	1:J:2063:LEU:HD23	1.87	0.41
1:H:375:LYS:HD2	1:H:375:LYS:HA	1.87	0.41
1:C:634:LEU:HA	1:C:634:LEU:HD23	1.91	0.41
1:A:2434:SER:HB2	1:A:2483:THR:HB	2.02	0.41
1:J:462:ARG:HG3	1:J:467:GLN:HG3	2.03	0.41
1:J:1378:TYR:HB3	1:J:1421:ARG:NH1	2.35	0.41
1:H:219:GLU:O	1:H:223:ALA:N	2.51	0.41
1:A:1051:ILE:HA	1:A:1052:GLY:HA2	1.54	0.41
1:A:887:LEU:HB2	1:A:889:VAL:HG12	2.01	0.41
1:I:42:TRP:CZ3	1:I:1321:ASP:HB2	2.56	0.41
1:A:1295:ASP:OD1	1:A:1296:THR:HG22	2.20	0.41
1:C:1092:LYS:HE2	1:C:1300:ARG:HH22	1.86	0.41
1:G:515:PHE:HZ	1:G:528:TYR:HD2	1.68	0.41
1:J:598:HIS:CB	1:J:600:LEU:HD13	2.51	0.41
1:H:1868:TYR:OH	1:H:1974:LEU:O	2.39	0.41
1:G:1256:LEU:HA	1:G:1256:LEU:HD23	1.98	0.41
1:I:608:LEU:HA	1:I:608:LEU:HD23	1.71	0.41
1:F:2403:PRO:HB2	1:G:2382:ASP:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2145:PHE:HD1	1:D:2145:PHE:HA	1.77	0.41
1:A:1585:THR:HB	1:A:1597:GLN:HE21	1.86	0.41
1:A:1587:HIS:CD2	1:A:1597:GLN:NE2	2.88	0.41
1:C:1706:LYS:HG3	1:C:1724:HIS:CE1	2.56	0.41
1:D:1659:ARG:HB3	1:D:1660:TRP:CE3	2.56	0.41
1:G:1495:PRO:HB2	1:G:1514:ASP:HB3	2.02	0.41
1:G:496:LEU:O	1:G:499:CYS:N	2.51	0.41
1:E:1337:ILE:HG23	1:E:1353:ILE:HG23	2.03	0.41
1:I:1350:LYS:HZ2	1:I:1536:GLU:HB2	1.85	0.41
1:B:2068:LEU:HD12	1:B:2227:LEU:HB3	2.02	0.41
1:I:1544:PHE:HD1	1:I:1544:PHE:N	2.19	0.41
1:C:1069:LEU:HD13	1:C:1783:LEU:HD23	2.03	0.41
1:I:1616:ARG:HH22	1:I:1628:GLU:CD	2.24	0.41
1:C:1061:LEU:HA	1:C:1064:VAL:HG12	2.02	0.41
1:J:2255:ARG:O	1:J:2255:ARG:HG2	2.19	0.41
1:J:159:LEU:HD13	1:J:985:ARG:HH11	1.86	0.41
1:A:697:ALA:HB2	1:A:708:ALA:CB	2.51	0.41
1:A:237:LEU:HB2	1:A:479:PHE:HB2	2.03	0.41
1:D:706:ASN:HB3	1:D:773:GLU:OE1	2.21	0.41
1:H:693:ALA:HB3	1:H:694:PRO:HD3	2.03	0.41
1:A:1437:TRP:CZ3	1:A:1439:PRO:HG3	2.56	0.41
1:G:529:PHE:HB2	1:G:531:THR:HG23	2.02	0.41
1:D:1041:PRO:HG2	1:D:1847:HIS:ND1	2.36	0.41
1:F:1101:ILE:HD11	1:F:1311:GLU:HB2	2.03	0.41
1:J:2082:LYS:HE2	1:J:2086:GLU:CD	2.42	0.41
1:J:605:LEU:HD13	1:J:609:LEU:HG	2.03	0.41
1:E:137:TYR:CE2	1:E:139:ASP:HB2	2.55	0.41
1:C:623:SER:HB2	1:C:626:GLN:HB2	2.03	0.41
1:A:1313:PRO:HG2	1:A:1573:PRO:HD2	2.02	0.41
1:A:1394:ASN:HB3	1:A:1396:ASN:O	2.21	0.41
1:B:1494:SER:OG	1:B:1560:GLU:OE1	2.36	0.41
1:E:153:GLN:O	1:E:157:ILE:HG12	2.21	0.41
1:J:2065:LEU:HD23	1:J:2065:LEU:HA	1.76	0.41
1:J:1717:ASP:OD2	1:J:1717:ASP:N	2.54	0.41
1:I:2418:THR:O	1:I:2508:ILE:HB	2.21	0.41
1:I:1494:SER:HB2	1:I:1497:LYS:HG3	2.03	0.41
1:B:2433:LEU:CD2	1:B:2482:LEU:HD21	2.50	0.40
1:B:598:HIS:HB3	1:B:638:THR:HG21	2.03	0.40
1:E:2040:LEU:HD12	1:E:2302:ALA:HB1	2.03	0.40
1:I:1816:TRP:CZ2	1:I:1849:LYS:HD3	2.56	0.40
1:G:432:ASN:HB3	1:G:435:SER:CB	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1287:ARG:HH11	1:B:1287:ARG:HG3	1.86	0.40
1:F:2106:ASN:ND2	1:F:2189:ARG:HD2	2.36	0.40
1:I:2393:PHE:HE1	1:I:2482:LEU:HB2	1.81	0.40
1:J:1650:TYR:O	1:J:1651:ASN:HB2	2.22	0.40
1:H:2470:LEU:O	1:H:2473:GLU:HG3	2.21	0.40
1:I:1126:VAL:HB	1:I:1141:TRP:CZ3	2.56	0.40
1:C:333:GLU:HG2	1:C:506:ARG:HG3	2.03	0.40
1:E:2412:ILE:O	1:E:2473:GLU:HA	2.21	0.40
1:C:2118:ARG:HH11	1:C:2177:ASP:HB3	1.85	0.40
1:D:15:GLN:HA	1:D:16:CYS:HA	1.95	0.40
1:G:192:PHE:HE2	1:G:195:SER:HB2	1.85	0.40
1:B:930:GLN:HA	1:B:933:THR:HG22	2.02	0.40
1:D:2431:ALA:HB3	1:D:2450:VAL:CG1	2.50	0.40
1:G:452:LEU:HD21	1:G:485:MET:HE1	2.02	0.40
1:G:1107:LEU:HB2	1:G:1126:VAL:O	2.21	0.40
1:I:112:MET:HG2	1:I:1949:LEU:O	2.21	0.40
1:I:33:ARG:HA	1:I:33:ARG:HD2	1.91	0.40
1:D:1357:LEU:CD1	1:D:1555:PHE:HB3	2.51	0.40
1:J:193:ARG:N	1:J:194:PRO:CD	2.84	0.40
1:I:1289:ASN:CG	1:I:1308:GLU:HG3	2.41	0.40
1:A:2172:MET:CB	1:E:2121:ALA:HB2	2.51	0.40
1:G:601:THR:HG22	1:G:604:GLU:CD	2.40	0.40
1:F:2143:ASN:HB3	1:G:2151:GLY:HA2	2.03	0.40
1:C:1782:ARG:HD2	1:C:1782:ARG:HA	1.82	0.40
1:F:1863:ARG:HD3	1:F:1882:TRP:CH2	2.56	0.40
1:F:2353:LEU:HD23	1:F:2506:ASP:HB2	2.03	0.40
1:B:231:MET:CG	1:B:898:VAL:HG23	2.51	0.40
1:H:612:VAL:HG13	1:H:633:LYS:HD3	2.03	0.40
1:J:1930:ILE:HB	1:J:1931:PRO:HD3	2.02	0.40
1:D:1840:VAL:O	1:D:1843:HIS:HB3	2.20	0.40
1:F:719:GLN:OE1	1:F:724:ALA:HB1	2.20	0.40
1:I:1407:VAL:HG13	1:I:1423:LEU:HB2	2.02	0.40
1:I:1973:ASN:O	1:I:1981:LEU:HD13	2.21	0.40
1:G:1634:GLU:HA	1:G:1635:PRO:HD3	1.97	0.40
1:A:276:LEU:HD23	1:A:437:LEU:HD13	2.02	0.40
1:J:845:LEU:HD21	1:J:881:VAL:HG13	2.02	0.40
1:F:1206:ASP:OD2	1:F:1207:GLY:N	2.53	0.40
1:I:259:ASN:HB3	1:I:263:LEU:HG	2.02	0.40
1:F:316:PRO:HA	1:F:327:VAL:HA	2.02	0.40
1:B:1784:LEU:HA	1:B:1784:LEU:HD23	1.83	0.40
1:H:189:LEU:HA	1:H:189:LEU:HD12	1.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:878:LEU:HA	1:F:878:LEU:HD23	1.79	0.40
1:F:1597:GLN:HB3	1:F:1602:ARG:HG2	2.03	0.40
1:B:1796:LEU:HD13	1:B:1856:THR:HA	2.02	0.40
1:J:2117:LEU:HA	1:J:2117:LEU:HD23	1.86	0.40
1:J:644:GLN:NE2	1:J:805:THR:HG21	2.36	0.40
1:J:644:GLN:O	1:J:646:TRP:CD1	2.74	0.40
1:F:159:LEU:CD1	1:F:985:ARG:HG3	2.51	0.40
1:B:1772:PHE:O	1:B:1776:PRO:HG2	2.20	0.40
1:B:1310:TYR:CE2	1:B:1576:LEU:HD13	2.56	0.40
1:J:1294:PHE:HA	1:J:1301:ARG:CB	2.51	0.40
1:E:1233:GLY:CA	1:E:1250:TYR:HB2	2.50	0.40
1:E:2142:PRO:HB2	1:E:2145:PHE:CZ	2.56	0.40
1:D:1093:VAL:HG23	1:D:1606:ASN:OD1	2.20	0.40
1:I:1122:TYR:HA	1:I:1145:HIS:O	2.21	0.40
1:C:1805:TYR:CZ	1:C:1817:ASN:HB2	2.56	0.40
1:D:598:HIS:CB	1:D:600:LEU:HD13	2.52	0.40
1:C:2047:GLN:HB2	1:C:2251:TYR:HB3	2.01	0.40
1:I:2016:LEU:HD13	1:I:2468:LYS:HD3	2.03	0.40
1:I:1630:GLN:HG2	1:I:1819:ARG:CB	2.45	0.40
1:A:1386:ILE:HB	1:A:1408:TYR:HB3	2.03	0.40
1:D:71:ASN:HA	1:D:72:PRO:HD3	1.88	0.40
1:F:297:ILE:HA	1:F:314:ILE:HG13	2.03	0.40
1:I:514:GLN:HA	1:I:517:ARG:NH1	2.37	0.40
1:D:1642:TYR:CD1	1:D:1753:ILE:HG22	2.56	0.40
1:A:300:ALA:CB	1:A:306:GLN:HE21	2.31	0.40
1:J:1381:LEU:HD13	1:J:1382:GLY:N	2.36	0.40
1:E:1248:MET:HE1	1:E:1283:SER:O	2.21	0.40
1:I:1770:GLU:HA	1:I:1774:TYR:HB2	2.03	0.40
1:G:2420:PRO:HD2	1:G:2506:ASP:O	2.21	0.40
1:D:1333:TYR:HD2	1:D:1358:ARG:CD	2.33	0.40
1:I:581:ASN:O	1:I:585:LEU:HG	2.21	0.40
1:E:1641:PHE:HB3	1:E:1692:ILE:O	2.21	0.40
1:I:477:LYS:CE	1:I:624:ASP:HB3	2.51	0.40
1:H:1383:ASP:O	1:H:1491:THR:OG1	2.28	0.40
1:G:1268:TYR:HD1	1:G:1278:MET:HG3	1.84	0.40
1:I:2419:LEU:HD21	1:I:2507:ILE:HG12	2.02	0.40
1:J:2422:LEU:H	1:J:2503:THR:CG2	2.34	0.40
1:C:2203:LEU:O	1:C:2207:ASP:HB2	2.22	0.40
1:E:2331:VAL:HG21	1:E:2402:TYR:HE2	1.87	0.40
1:H:1930:ILE:HB	1:H:1931:PRO:HD3	2.02	0.40
1:F:450:THR:HG21	1:F:478:VAL:HG11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:693:ALA:HB3	1:I:694:PRO:HD3	2.03	0.40
1:C:693:ALA:HB3	1:C:694:PRO:HD3	2.03	0.40
1:C:2359:LYS:O	1:C:2363:GLN:HG2	2.21	0.40
1:G:1090:ASN:OD1	1:G:1611:ARG:NH1	2.54	0.40
1:A:2004:GLN:H	1:A:2300:THR:HG23	1.86	0.40
1:C:348:PHE:CE1	1:C:354:ARG:HD3	2.56	0.40
1:E:1065:SER:HA	1:E:1782:ARG:HE	1.86	0.40
1:I:1170:LEU:HD12	1:I:1236:CYS:SG	2.62	0.40
1:C:2291:PHE:CD2	1:C:2317:MET:HA	2.57	0.40
1:C:2294:PRO:HA	1:C:2295:GLY:HA2	1.59	0.40
1:G:1662:LYS:HD2	1:G:1712:LYS:HE2	2.02	0.40
1:E:2263:PHE:HD1	1:E:2297:TRP:CZ2	2.40	0.40
1:F:2235:GLN:HG2	1:J:1995:LEU:HB3	2.03	0.40
1:G:111:SER:HB3	1:G:114:SER:HB3	2.02	0.40
1:A:2237:GLN:O	1:A:2240:PHE:HB3	2.21	0.40
1:A:1671:ASN:OD1	1:A:1699:LEU:HD22	2.21	0.40
1:I:2063:LEU:HD23	1:I:2063:LEU:HA	1.84	0.40
1:G:2117:LEU:HA	1:G:2117:LEU:HD23	1.90	0.40
1:D:357:TYR:HE2	1:D:368:LEU:HD21	1.86	0.40
1:D:1158:ILE:HG13	1:D:1171:TRP:HB3	2.02	0.40
1:F:2285:ASN:ND2	1:F:2409:ILE:HG21	2.36	0.40
1:C:1371:GLN:O	1:C:1375:MET:HG3	2.21	0.40
1:I:41:SER:O	1:I:42:TRP:HB2	2.22	0.40
1:B:1312:ILE:HA	1:B:1313:PRO:HD3	1.93	0.40
1:B:598:HIS:HB2	1:B:600:LEU:HD13	2.03	0.40
1:C:1655:HIS:NE2	1:C:1929:ASN:O	2.55	0.40
1:G:2202:GLU:O	1:G:2205:GLN:HB3	2.22	0.40
1:J:614:GLU:C	1:J:617:THR:HG22	2.42	0.40
1:G:1287:ARG:HH11	1:G:1287:ARG:HG3	1.86	0.40
1:J:991:ALA:HA	1:J:994:GLN:OE1	2.21	0.40
1:B:1260:LYS:HA	1:B:1287:ARG:HH22	1.86	0.40
1:G:1255:THR:CA	1:G:1296:THR:HG21	2.50	0.40
1:F:1650:TYR:O	1:F:1651:ASN:CB	2.68	0.40
1:H:300:ALA:CB	1:H:306:GLN:HE21	2.31	0.40
1:E:1151:ILE:HG23	1:E:1171:TRP:CD2	2.56	0.40
1:B:2025:ASN:OD1	1:B:2272:ARG:HD2	2.22	0.40
1:F:2007:GLY:N	1:F:2008:LYS:HB3	2.36	0.40
1:B:749:GLN:O	1:B:753:VAL:N	2.35	0.40
1:C:1974:LEU:HA	1:C:1980:PRO:HA	2.03	0.40
1:C:465:ASN:OD1	1:C:466:LEU:N	2.45	0.40
1:H:2412:ILE:O	1:H:2473:GLU:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1650:TYR:CD1	1:G:1651:ASN:N	2.90	0.40
1:C:2111:GLU:OE1	1:D:2187:ARG:NE	2.55	0.40
1:B:1353:ILE:O	1:B:1535:LEU:N	2.55	0.40
1:C:78:VAL:HG12	1:C:79:HIS:CD2	2.56	0.40
1:B:1602:ARG:HD2	1:B:1693:PRO:HB3	2.04	0.40
1:A:1170:LEU:HA	1:A:1199:LYS:O	2.22	0.40
1:E:1664:TYR:O	1:E:1707:VAL:HA	2.21	0.40
1:E:336:THR:HA	1:E:337:ASN:HA	1.83	0.40
1:F:105:ALA:HB2	1:F:1896:LEU:CD1	2.51	0.40
1:G:1858:ASP:OD1	1:G:1959:TYR:OH	2.26	0.40
1:B:2281:ARG:HD3	1:B:2289:ALA:O	2.21	0.40
1:C:1111:ILE:HD13	1:C:1169:LEU:HD22	2.03	0.40
1:D:1071:ALA:O	1:D:1075:GLU:HG3	2.21	0.40
1:F:840:ASN:HB3	1:G:649:PHE:CE2	2.57	0.40
1:J:1061:LEU:HB2	1:J:1778:LEU:HD11	2.04	0.40
1:C:126:ALA:O	1:C:129:LEU:HB2	2.21	0.40
1:G:1352:TYR:HA	1:G:1535:LEU:O	2.21	0.40
1:F:1720:TRP:HE1	1:F:1739:SER:H	1.69	0.40
1:J:1836:ASP:HA	1:J:1837:PRO:HD2	1.92	0.40
1:G:2419:LEU:HD21	1:G:2507:ILE:HG12	2.03	0.40
1:H:689:LEU:HD13	1:H:713:LEU:CD2	2.52	0.40
1:H:201:HIS:CD2	1:H:203:ALA:HB3	2.56	0.40
1:I:1062:GLN:CD	1:J:2117:LEU:HD21	2.41	0.40
1:G:125:GLU:HB3	1:G:1018:PHE:HE1	1.86	0.40
1:J:1340:ILE:HD13	1:J:1572:ILE:HD13	2.04	0.40
1:G:2238:LEU:O	1:G:2242:GLN:HG2	2.21	0.40
1:C:1560:GLU:HA	1:C:1560:GLU:OE2	2.22	0.40
1:E:908:GLU:HG2	1:E:908:GLU:O	2.21	0.40
1:C:406:PHE:CD2	1:C:406:PHE:N	2.86	0.40
1:B:150:LEU:HD23	1:B:150:LEU:HA	1.88	0.40
1:D:1996:LEU:HA	1:D:1996:LEU:HD23	1.95	0.40
1:A:1893:LYS:HG2	1:A:1960:TRP:CE3	2.56	0.40
1:G:852:GLN:HB3	1:G:880:TRP:CZ3	2.57	0.40
1:H:1394:ASN:HB3	1:H:1396:ASN:O	2.21	0.40
1:D:437:LEU:HD23	1:D:437:LEU:HA	1.89	0.40
1:D:1408:TYR:CG	1:D:1467:LEU:HD12	2.56	0.40
1:G:2410:ARG:HA	1:G:2514:THR:O	2.21	0.40
1:G:1295:ASP:HB3	1:G:1301:ARG:HE	1.85	0.40
1:G:614:GLU:C	1:G:617:THR:HG22	2.42	0.40
1:A:1972:HIS:HB2	1:A:1974:LEU:HD13	2.02	0.40
1:D:142:ARG:HA	1:D:143:PRO:HD3	1.91	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1223:GLU:HB2	1:D:1265:GLN:OE1	2.22	0.40
1:B:1408:TYR:CD1	1:B:1467:LEU:HD12	2.56	0.40
1:B:1353:ILE:HG22	1:B:1355:PRO:CD	2.50	0.40
1:F:2218:GLU:O	1:F:2222:LEU:HD13	2.22	0.40
1:H:231:MET:HG2	1:H:898:VAL:HG23	2.03	0.40
1:B:1368:LYS:O	1:B:1372:CYS:HB2	2.21	0.40
1:D:1561:ASP:CG	1:D:1563:ARG:HH21	2.23	0.40
1:A:2147:PHE:CE2	1:E:2147:PHE:CD2	3.09	0.40
1:C:810:TRP:HZ2	1:C:835:LEU:HD11	1.86	0.40
1:E:889:VAL:HG22	1:E:890:ALA:N	2.36	0.40
1:J:1097:TYR:CE1	1:J:1161:VAL:HG23	2.57	0.40
1:B:1357:LEU:HD13	1:B:1555:PHE:HB3	2.03	0.40
1:F:1111:ILE:CD1	1:F:1169:LEU:HD22	2.52	0.40
1:D:251:LEU:HD13	1:D:446:LEU:HG	2.03	0.40
1:B:353:TYR:HE2	1:B:402:ILE:HD11	1.86	0.40
1:G:41:SER:HB3	1:G:44:GLU:OE1	2.21	0.40
1:I:1312:ILE:HA	1:I:1313:PRO:HD3	1.98	0.40
1:A:32:PHE:CE1	1:A:36:VAL:HG21	2.56	0.40
1:J:1061:LEU:HA	1:J:1064:VAL:HG12	2.04	0.40
1:D:2129:GLN:HG3	1:D:2164:VAL:HG21	2.04	0.40
1:C:1041:PRO:HG2	1:C:1847:HIS:ND1	2.36	0.40
1:A:248:PHE:CE1	1:A:902:TYR:HB3	2.55	0.40
1:A:2057:GLN:NE2	1:A:2237:GLN:OE1	2.54	0.40
1:A:519:PHE:HD2	1:A:550:ILE:HG22	1.87	0.40
1:F:30:ASN:O	1:F:34:GLN:HG2	2.21	0.40
1:G:353:TYR:HE2	1:G:402:ILE:HD11	1.86	0.40
1:G:398:ASN:O	1:G:402:ILE:HG12	2.21	0.40
1:A:1380:LYS:O	1:A:1383:ASP:HB2	2.21	0.40
1:B:2027:ARG:HH11	1:B:2311:MET:HG3	1.86	0.40
1:F:2249:ALA:O	1:F:2252:ASN:HB2	2.22	0.40
1:D:1260:LYS:C	1:D:1262:ALA:H	2.25	0.40
1:H:1656:GLY:HA2	1:H:1657:ASP:HA	1.81	0.40
1:B:663:LEU:HD12	1:B:663:LEU:O	2.22	0.40
1:I:567:LYS:HD3	1:I:567:LYS:HA	1.93	0.40
1:G:1622:ASP:OD2	1:G:1622:ASP:N	2.54	0.40
1:C:878:LEU:HD23	1:C:878:LEU:HA	1.96	0.40
1:E:1796:LEU:HA	1:E:1796:LEU:HD23	1.96	0.40
1:H:1668:VAL:HG13	1:H:1669:VAL:H	1.87	0.40
1:H:877:ILE:O	1:H:880:TRP:HB2	2.22	0.40
1:I:1294:PHE:HA	1:I:1301:ARG:CB	2.51	0.40
1:I:155:MET:HA	1:I:986:ILE:HB	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1151:ILE:HG23	1:H:1171:TRP:CE2	2.57	0.40
1:G:1976:ILE:HD13	1:G:1976:ILE:HA	1.85	0.40
1:E:331:THR:O	1:E:426:PHE:HA	2.20	0.40
1:C:608:LEU:HD23	1:C:608:LEU:HA	1.85	0.40
1:F:497:ILE:HD13	1:F:589:TYR:CD2	2.42	0.40
1:F:2188:ARG:NH2	1:G:2187:ARG:HG3	2.36	0.40
1:A:1975:SER:OG	1:A:1976:ILE:N	2.54	0.40
1:G:1653:SER:N	1:G:1713:LYS:HE3	2.33	0.40
1:H:1268:TYR:CE1	1:H:1278:MET:HG3	2.54	0.40
1:E:271:ILE:HG23	1:E:952:ARG:HH22	1.86	0.40
1:F:594:LEU:O	1:F:598:HIS:ND1	2.53	0.40
1:B:2111:GLU:CD	1:B:2188:ARG:HH22	2.24	0.40
1:J:2353:LEU:O	1:J:2357:ILE:HG13	2.21	0.40
1:E:614:GLU:C	1:E:617:THR:HG22	2.42	0.40
1:C:2422:LEU:O	1:C:2423:LEU:HD23	2.22	0.40
1:D:1168:TYR:CE2	1:D:1202:HIS:HB3	2.56	0.40
1:D:182:TYR:O	1:D:185:VAL:HB	2.21	0.40
1:J:2046:ARG:HB3	1:J:2251:TYR:CE2	2.57	0.40
1:D:1641:PHE:CD1	1:D:1692:ILE:HB	2.55	0.40
1:H:2111:GLU:OE2	1:H:2188:ARG:NH2	2.52	0.40
1:H:2430:GLN:N	1:H:2497:GLN:OE1	2.52	0.40
1:J:1061:LEU:HD13	1:J:1778:LEU:HD11	2.03	0.40
1:A:2143:ASN:O	1:B:2151:GLY:HA2	2.22	0.40
1:J:1040:TYR:CD1	1:J:1953:ASN:HB3	2.57	0.40
1:I:2431:ALA:HB3	1:I:2450:VAL:CG1	2.51	0.40
1:H:772:ASN:HD22	1:H:822:LEU:CD1	2.35	0.40
1:H:1328:TYR:O	1:H:1363:GLY:HA2	2.22	0.40
1:E:2296:ALA:HB1	1:E:2306:ALA:HA	2.03	0.40
1:B:1405:TYR:HA	1:B:1406:PRO:HD3	1.94	0.40
1:B:1405:TYR:HB2	1:B:1425:HIS:HB3	2.04	0.40
1:E:1840:VAL:O	1:E:1843:HIS:HB3	2.21	0.40
1:F:1435:GLU:O	1:F:1473:MET:HA	2.21	0.40
1:E:850:SER:O	1:E:854:GLN:HG3	2.21	0.40
1:I:2463:ASP:O	1:I:2466:ASP:HB2	2.21	0.40
1:E:1024:TYR:CD2	1:E:1034:VAL:HG21	2.57	0.40
1:B:1466:ASP:O	1:B:1469:GLN:HB2	2.22	0.40
1:C:33:ARG:CZ	1:C:37:SER:HA	2.51	0.40
1:C:567:LYS:HD3	1:C:567:LYS:HA	1.92	0.40
1:H:2063:LEU:HD23	1:H:2063:LEU:HA	1.78	0.40
1:D:2308:GLU:OE1	1:D:2308:GLU:N	2.49	0.40
1:E:734:LEU:HD23	1:E:734:LEU:HA	1.71	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:822:LEU:HD23	1:G:822:LEU:HA	1.86	0.40
1:D:164:LEU:HD23	1:D:164:LEU:HA	1.88	0.40
1:F:2176:ALA:HB1	1:J:2118:ARG:HE	1.87	0.40
1:B:1085:PHE:HE2	1:B:1767:TYR:HB3	1.86	0.40
1:H:2042:ASN:HA	1:H:2045:GLU:OE2	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	2484/2516 (99%)	2384 (96%)	94 (4%)	6 (0%)	52	88
1	B	2484/2516 (99%)	2397 (96%)	82 (3%)	5 (0%)	52	88
1	C	2484/2516 (99%)	2394 (96%)	85 (3%)	5 (0%)	52	88
1	D	2484/2516 (99%)	2390 (96%)	90 (4%)	4 (0%)	52	88
1	E	2484/2516 (99%)	2387 (96%)	92 (4%)	5 (0%)	52	88
1	F	2484/2516 (99%)	2389 (96%)	90 (4%)	5 (0%)	52	88
1	G	2482/2516 (99%)	2393 (96%)	84 (3%)	5 (0%)	52	88
1	H	2484/2516 (99%)	2393 (96%)	86 (4%)	5 (0%)	52	88
1	I	2484/2516 (99%)	2393 (96%)	86 (4%)	5 (0%)	52	88
1	J	2484/2516 (99%)	2395 (96%)	84 (3%)	5 (0%)	52	88
All	All	24838/25160 (99%)	23915 (96%)	873 (4%)	50 (0%)	52	88

All (50) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	1651	ASN
1	C	522	PRO

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Mol	Chain	Res	Type
1	D	954	VAL
1	F	954	VAL
1	F	1651	ASN
1	G	954	VAL
1	G	1255	THR
1	H	1651	ASN
1	I	522	PRO
1	J	1651	ASN
1	A	954	VAL
1	A	1255	THR
1	A	1992	PRO
1	B	954	VAL
1	B	1255	THR
1	C	1255	THR
1	D	1651	ASN
1	E	954	VAL
1	E	1254	ASP
1	E	1255	THR
1	F	1255	THR
1	H	954	VAL
1	H	1255	THR
1	I	954	VAL
1	I	1255	THR
1	J	954	VAL
1	J	1255	THR
1	A	1254	ASP
1	B	1254	ASP
1	C	954	VAL
1	C	1254	ASP
1	E	1651	ASN
1	F	1254	ASP
1	G	1254	ASP
1	G	1651	ASN
1	I	1254	ASP
1	J	1254	ASP
1	D	361	ASN
1	H	1254	ASP
1	A	1991	ASP
1	B	361	ASN
1	B	860	PRO
1	G	860	PRO
1	H	860	PRO

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Mol	Chain	Res	Type
1	J	860	PRO
1	C	860	PRO
1	D	860	PRO
1	E	860	PRO
1	I	860	PRO
1	F	860	PRO

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	2134/2157 (99%)	2131 (100%)	3 (0%)	95 100
1	B	2134/2157 (99%)	2129 (100%)	5 (0%)	95 99
1	C	2134/2157 (99%)	2130 (100%)	4 (0%)	95 99
1	D	2134/2157 (99%)	2128 (100%)	6 (0%)	94 99
1	E	2134/2157 (99%)	2126 (100%)	8 (0%)	93 98
1	F	2134/2157 (99%)	2131 (100%)	3 (0%)	95 100
1	G	2132/2157 (99%)	2129 (100%)	3 (0%)	95 100
1	H	2134/2157 (99%)	2130 (100%)	4 (0%)	95 99
1	I	2134/2157 (99%)	2123 (100%)	11 (0%)	92 97
1	J	2134/2157 (99%)	2128 (100%)	6 (0%)	94 99
All	All	21338/21570 (99%)	21285 (100%)	53 (0%)	95 99

All (53) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	657	THR
1	A	1814	TYR
1	A	1991	ASP
1	B	1651	ASN
1	B	1741	LEU
1	B	1751	ASN
1	B	2145	PHE

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Mol	Chain	Res	Type
1	B	2254	LEU
1	C	522	PRO
1	C	1411	SER
1	C	2145	PHE
1	C	2513	TYR
1	D	581	ASN
1	D	796	HIS
1	D	1669	VAL
1	D	2145	PHE
1	D	2242	GLN
1	D	2261	ILE
1	E	1003	ASN
1	E	1102	ASN
1	E	1226	LEU
1	E	1419	GLN
1	E	1462	ASN
1	E	2112	ASN
1	E	2261	ILE
1	E	2513	TYR
1	F	1685	ASN
1	F	1942	ASN
1	F	2145	PHE
1	G	658	SER
1	G	1651	ASN
1	G	2254	LEU
1	H	1102	ASN
1	H	1669	VAL
1	H	2254	LEU
1	H	2261	ILE
1	I	446	LEU
1	I	521	THR
1	I	897	LEU
1	I	948	THR
1	I	1462	ASN
1	I	1542	LEU
1	I	1651	ASN
1	I	1814	TYR
1	I	2112	ASN
1	I	2261	ILE
1	I	2513	TYR
1	J	111	SER
1	J	402	ILE

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Mol	Chain	Res	Type
1	J	658	SER
1	J	1322	TYR
1	J	2385	THR
1	J	2513	TYR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (132) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	520	ASN
1	A	796	HIS
1	A	848	GLN
1	A	892	GLN
1	A	1102	ASN
1	A	1251	ASN
1	A	1282	GLN
1	A	1394	ASN
1	A	1547	ASN
1	A	1587	HIS
1	A	1594	GLN
1	A	1597	GLN
1	A	1810	GLN
1	A	1942	ASN
1	A	1961	GLN
1	A	2042	ASN
1	A	2106	ASN
1	B	26	HIS
1	B	306	GLN
1	B	580	ASN
1	B	892	GLN
1	B	1066	GLN
1	B	1210	ASN
1	B	1303	ASN
1	B	1462	ASN
1	B	1594	GLN
1	B	1674	HIS
1	B	1704	HIS
1	B	1812	GLN
1	B	2106	ASN
1	C	26	HIS
1	C	1174	GLN
1	C	1265	GLN
1	C	1462	ASN

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Mol	Chain	Res	Type
1	C	1594	GLN
1	C	1606	ASN
1	C	1704	HIS
1	C	1724	HIS
1	C	2047	GLN
1	C	2106	ASN
1	C	2252	ASN
1	D	102	GLN
1	D	306	GLN
1	D	580	ASN
1	D	892	GLN
1	D	1462	ASN
1	D	1594	GLN
1	D	1597	GLN
1	D	1704	HIS
1	D	1810	GLN
1	D	2106	ASN
1	D	2235	GLN
1	D	2237	GLN
1	D	2247	ASN
1	E	102	GLN
1	E	340	GLN
1	E	892	GLN
1	E	1003	ASN
1	E	1102	ASN
1	E	1105	GLN
1	E	1367	GLN
1	E	1419	GLN
1	E	1462	ASN
1	E	1587	HIS
1	E	1594	GLN
1	E	1597	GLN
1	E	1810	GLN
1	E	2047	GLN
1	E	2106	ASN
1	E	2231	GLN
1	E	2252	ASN
1	F	892	GLN
1	F	1282	GLN
1	F	1367	GLN
1	F	1594	GLN
1	F	1704	HIS

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Mol	Chain	Res	Type
1	F	1810	GLN
1	F	2047	GLN
1	F	2059	GLN
1	F	2106	ASN
1	F	2252	ASN
1	F	2497	GLN
1	G	340	GLN
1	G	580	ASN
1	G	796	HIS
1	G	892	GLN
1	G	1370	ASN
1	G	1594	GLN
1	G	1597	GLN
1	G	1674	HIS
1	G	1704	HIS
1	G	1724	HIS
1	G	1810	GLN
1	H	102	GLN
1	H	306	GLN
1	H	373	ASN
1	H	1462	ASN
1	H	1594	GLN
1	H	1667	HIS
1	H	1704	HIS
1	H	1810	GLN
1	H	2106	ASN
1	H	2247	ASN
1	H	2252	ASN
1	I	102	GLN
1	I	866	ASN
1	I	892	GLN
1	I	1103	ASN
1	I	1139	ASN
1	I	1394	ASN
1	I	1594	GLN
1	I	1685	ASN
1	I	1704	HIS
1	I	1815	GLN
1	I	2042	ASN
1	I	2059	GLN
1	I	2106	ASN
1	I	2248	GLN

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Mol	Chain	Res	Type
1	I	2455	ASN
1	J	26	HIS
1	J	152	GLN
1	J	398	ASN
1	J	520	ASN
1	J	892	GLN
1	J	1289	ASN
1	J	1462	ASN
1	J	1594	GLN
1	J	1685	ASN
1	J	1704	HIS
1	J	1810	GLN
1	J	2057	GLN
1	J	2106	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 carbohydrates in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	A	2490/2516 (98%)	-0.35	6 (0%) 95 93	11, 61, 112, 209	0
1	B	2490/2516 (98%)	-0.32	10 (0%) 93 90	19, 63, 114, 190	0
1	C	2490/2516 (98%)	-0.29	13 (0%) 91 88	14, 67, 116, 184	0
1	D	2490/2516 (98%)	-0.30	17 (0%) 89 82	10, 64, 115, 186	0
1	E	2490/2516 (98%)	-0.38	12 (0%) 91 88	11, 58, 112, 187	0
1	F	2490/2516 (98%)	-0.22	26 (1%) 84 76	8, 71, 134, 210	0
1	G	2488/2516 (98%)	-0.27	16 (0%) 90 85	6, 67, 128, 210	0
1	H	2490/2516 (98%)	-0.26	27 (1%) 82 73	13, 68, 128, 194	0
1	I	2490/2516 (98%)	-0.26	19 (0%) 87 80	10, 68, 127, 195	0
1	J	2490/2516 (98%)	-0.25	20 (0%) 87 80	8, 69, 130, 197	0
All	All	24898/25160 (98%)	-0.29	166 (0%) 89 82	6, 65, 123, 210	0

All (166) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	H	1932	THR	6.1
1	F	1718	GLY	5.7
1	F	1932	THR	5.6
1	J	320	SER	4.9
1	J	1419	GLN	4.7
1	B	1932	THR	4.2
1	C	1932	THR	4.1
1	E	1932	THR	4.0
1	F	1419	GLN	3.7
1	H	1466	ASP	3.7
1	H	1298	ASN	3.6
1	J	1939	ARG	3.5
1	F	1986	TYR	3.5

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Mol	Chain	Res	Type	RSRZ
1	D	1931	PRO	3.5
1	E	1987	ALA	3.5
1	H	1654	THR	3.4
1	H	1540	SER	3.4
1	F	17	GLY	3.4
1	I	378	LEU	3.4
1	J	321	SER	3.3
1	G	1932	THR	3.3
1	F	1493	ILE	3.2
1	E	1657	ASP	3.1
1	J	1556	THR	3.1
1	H	1657	ASP	3.1
1	G	320	SER	3.1
1	I	1493	ILE	3.1
1	B	1346	SER	3.1
1	F	1511	PHE	3.0
1	E	1986	TYR	3.0
1	I	418	SER	3.0
1	I	1460	SER	3.0
1	I	1416	GLY	3.0
1	I	1738	LYS	3.0
1	G	1942	ASN	3.0
1	D	1469	GLN	2.9
1	B	1657	ASP	2.9
1	C	1266	GLY	2.9
1	F	1416	GLY	2.9
1	F	1557	ALA	2.9
1	I	1180	GLN	2.9
1	H	1556	THR	2.8
1	D	1986	TYR	2.8
1	H	1533	ASN	2.7
1	J	1694	LEU	2.7
1	J	14	SER	2.7
1	E	1939	ARG	2.7
1	A	1657	ASP	2.7
1	J	1469	GLN	2.7
1	E	320	SER	2.6
1	J	1466	ASP	2.6
1	H	1469	GLN	2.6
1	G	1230	ARG	2.6
1	J	1230	ARG	2.6
1	J	743	SER	2.6

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Mol	Chain	Res	Type	RSRZ
1	G	1738	LYS	2.6
1	G	2149	GLY	2.6
1	H	1409	GLN	2.6
1	D	18	PHE	2.6
1	D	1932	THR	2.6
1	I	36	VAL	2.6
1	H	1655	HIS	2.6
1	D	1556	THR	2.5
1	H	1493	ILE	2.5
1	J	1251	ASN	2.5
1	J	1703	TYR	2.5
1	I	2149	GLY	2.5
1	I	1749	VAL	2.5
1	D	1419	GLN	2.5
1	J	2365	SER	2.5
1	B	17	GLY	2.5
1	A	368	LEU	2.4
1	H	1467	LEU	2.4
1	H	1701	GLN	2.4
1	J	1747	VAL	2.4
1	H	348	PHE	2.4
1	B	370	ILE	2.4
1	F	396	THR	2.4
1	I	1986	TYR	2.4
1	I	18	PHE	2.3
1	G	267	ASN	2.3
1	H	14	SER	2.3
1	I	379	VAL	2.3
1	G	1419	GLN	2.3
1	E	1540	SER	2.3
1	F	1931	PRO	2.3
1	F	1251	ASN	2.3
1	A	1986	TYR	2.3
1	I	1655	HIS	2.3
1	C	1418	ASN	2.3
1	G	1557	ALA	2.3
1	B	1939	ARG	2.3
1	C	14	SER	2.3
1	C	1180	GLN	2.3
1	I	1445	LEU	2.3
1	D	1191	GLU	2.3
1	J	1645	PHE	2.3

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Mol	Chain	Res	Type	RSRZ
1	C	1657	ASP	2.3
1	G	1943	THR	2.3
1	H	1702	ASP	2.3
1	D	1557	ALA	2.3
1	H	1419	GLN	2.3
1	H	1709	MET	2.2
1	F	1467	LEU	2.2
1	I	1657	ASP	2.2
1	C	1658	GLU	2.2
1	B	328	TYR	2.2
1	G	1416	GLY	2.2
1	D	306	GLN	2.2
1	E	1419	GLN	2.2
1	G	1556	THR	2.2
1	E	370	ILE	2.2
1	H	1420	GLY	2.2
1	D	2365	SER	2.2
1	F	1709	MET	2.2
1	I	1263	SER	2.2
1	D	1493	ILE	2.1
1	G	1694	LEU	2.1
1	H	1464	PRO	2.1
1	H	1310	TYR	2.1
1	G	1504	ALA	2.1
1	C	1939	ARG	2.1
1	J	1190	THR	2.1
1	A	18	PHE	2.1
1	C	1347	SER	2.1
1	H	1180	GLN	2.1
1	J	1420	GLY	2.1
1	H	1987	ALA	2.1
1	F	397	LEU	2.1
1	C	2489	ALA	2.1
1	F	1420	GLY	2.1
1	F	1230	ARG	2.1
1	D	368	LEU	2.1
1	E	1655	HIS	2.1
1	B	1230	ARG	2.1
1	F	1409	GLN	2.1
1	I	1694	LEU	2.1
1	F	1702	ASP	2.1
1	H	1384	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
1	H	1468	LYS	2.1
1	J	1725	PHE	2.1
1	C	1540	SER	2.1
1	D	302	ASN	2.1
1	F	1418	ASN	2.1
1	F	395	ILE	2.1
1	A	1419	GLN	2.1
1	A	1932	THR	2.1
1	I	419	TRP	2.1
1	C	1931	PRO	2.1
1	G	321	SER	2.0
1	D	1180	GLN	2.0
1	B	315	THR	2.0
1	H	1189	GLN	2.0
1	J	1657	ASP	2.0
1	C	363	TYR	2.0
1	F	1530	TYR	2.0
1	G	2148	ALA	2.0
1	B	1419	GLN	2.0
1	D	1263	SER	2.0
1	F	1536	GLU	2.0
1	F	363	TYR	2.0
1	F	1654	THR	2.0
1	E	1931	PRO	2.0
1	F	1645	PHE	2.0
1	E	1672	ASN	2.0
1	D	370	ILE	2.0

6.2 Non-standard residues in protein, DNA, RNA chains (i)

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

6.3 Carbohydrates (i)

There are no carbohydrates in this entry.

6.4 Ligands (i)

There are no ligands in this entry.

6.5 Other polymers (i)

There are no such residues in this entry.