Full wwPDB EM Validation Report ⓘ

Apr 27, 2024 – 10:50 pm BST

PDB ID	:	4BTG
EMDB ID	:	EMD-2364
Title	:	Coordinates of the bacteriophage phi6 capsid subunits (P1A and P1B) fitted into the cryoEM reconstruction of the procapsid at 4.4 A resolution
Authors	:	Nemecek, D.; Boura, E.; Wu, W.; Cheng, N.; Plevka, P.; Qiao, J.; Mindich, L.; Heymann, J.B.; Hurley, J.H.; Steven, A.C.
Deposited on	:	2013-06-17
Resolution	:	4.40 Å(reported)
Based on initial model	:	4K7H

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

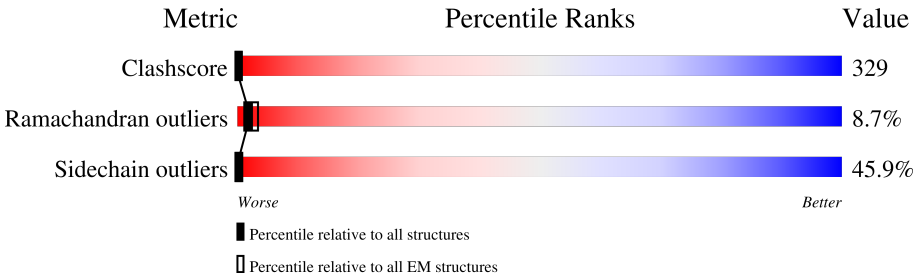
EMDB validation analysis	:	0.0.1.dev92
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36.2

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 4.40 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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

Mol	Chain	Length	Quality of chain
1	A	761	14% 5% 40% 41% 14%
1	B	761	18% · 48% 38% 10%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 11840 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called MAJOR INNER PROTEIN P1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	761	Total	C	N	O	S	0	0
			5920	3741	1048	1109	22		
1	B	761	Total	C	N	O	S	0	0
			5920	3741	1048	1109	22		

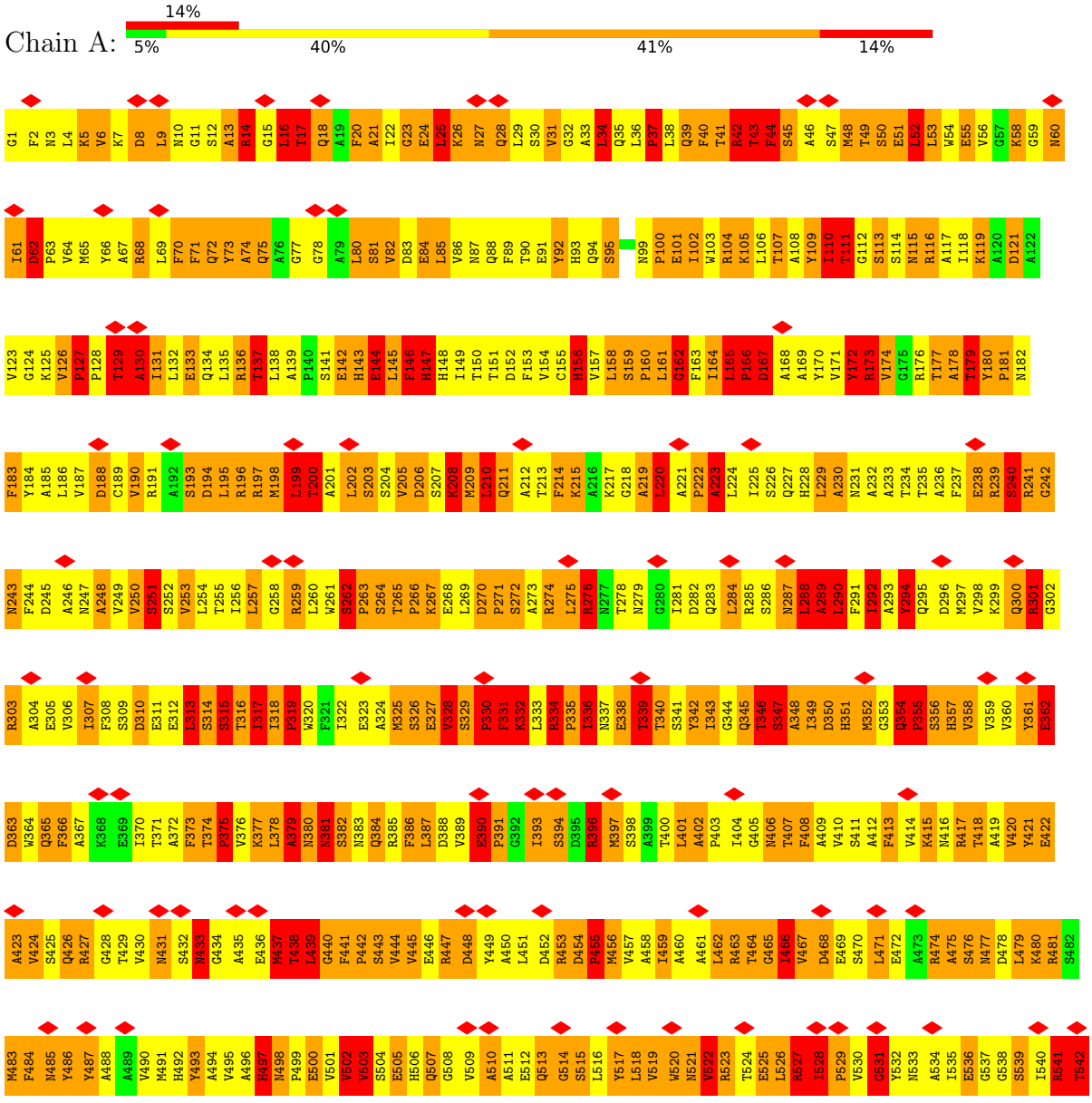
There are 2 discrepancies between the modelled and reference sequences:

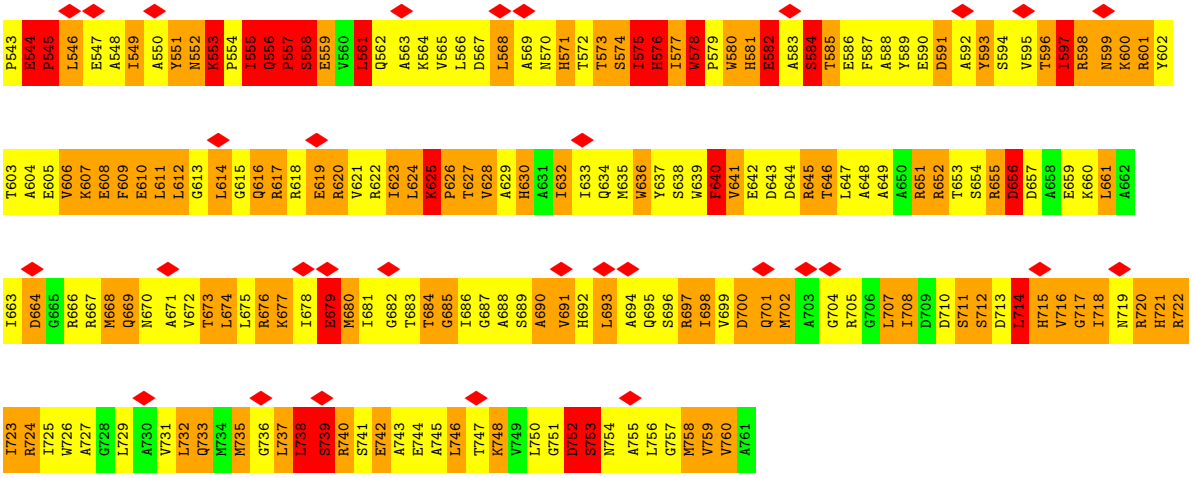
Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	expression tag	UNP P11126
B	1	GLY	-	expression tag	UNP P11126

3 Residue-property plots (i)

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

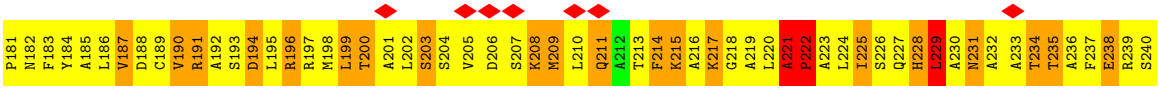
• Molecule 1: MAJOR INNER PROTEIN P1

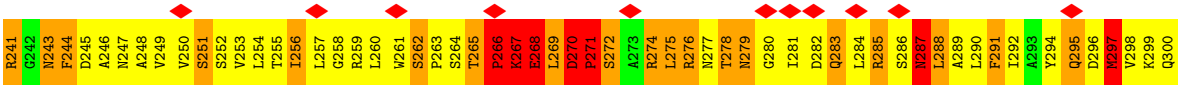


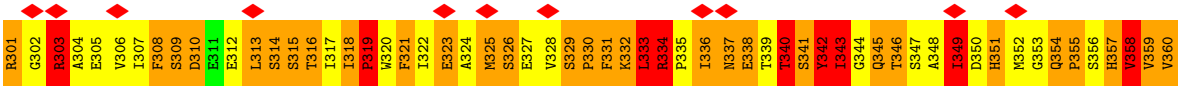


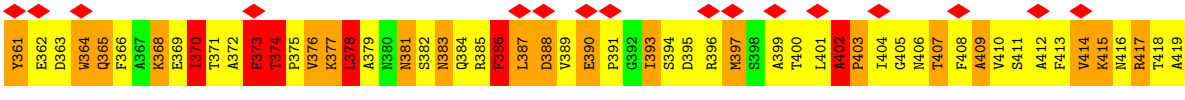
• Molecule 1: MAJOR INNER PROTEIN P1

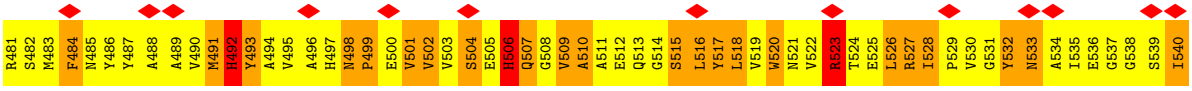
Chain B:

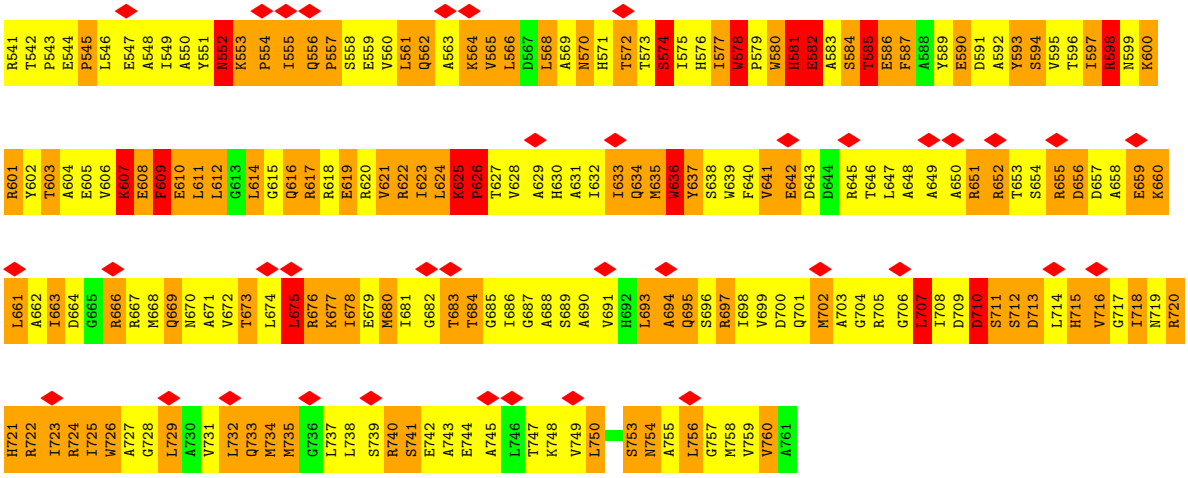











R541 T542 P543 E544 P545 L546 E547 A548 I549 A550 Y551 N552 K553 P554 I555 Q556 P557 S558 E559 V560 L561 Q562 A563 K564 V565 L566 D567 L568 A569 N570 H571 T572 T573 S574 I575 H576 I577 W578 P579 W580 H581 E582 A583 S584 T585 E586 F587 A588 Y589 E590 D591 A592 Y593 S594 V595 T596 I597 R598 N599 K600
R601 Y602 T603 A604 E605 V606 K607 E608 F609 E610 L611 L612 G613 L614 G615 Q616 R617 R618 E619 R620 V621 R622 I623 L624 K625 P626 T627 V628 A629 H630 A631 I632 I633 Q634 M635 W636 Y637 S638 W639 F640 V641 E642 D643 D644 R645 T646 L647 A648 A649 A650 R651 R652 T653 S654 R655 D656 D657 A658 E659 K660
L661 A662 I663 D664 G665 R666 R667 M668 Q669 N670 A671 V672 T673 L674 L675 R676 K677 I678 E679 M680 I681 G682 T683 T684 G685 I686 G687 A688 S689 A690 V691 H692 L693 A694 Q695 S696 R697 I698 V699 D700 Q701 M702 A703 G704 R705 G706 L707 I708 D709 D710 S711 S712 D713 L714 H715 V716 G717 I718 N719 R720
H721 R722 I723 R724 I725 W726 A727 G728 L729 A730 V731 L732 Q733 M734 M735 G736 L737 L738 S739 R740 S741 E742 A743 E744 A745 L746 T747 K748 V749 L750 S753 N754 A755 L756 G757 M758 V759 V760 A761

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	18326	Depositor
Resolution determination method	Not provided	
CTF correction method	PARTICLES FROM EACH MICROGRAPH	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	15	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2200	Depositor
Magnification	44739	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	21.125	Depositor
Minimum map value	-8.041	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2.0	Depositor
Map size (Å)	586.74, 586.74, 586.74	wwPDB
Map dimensions	420, 420, 420	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.397, 1.397, 1.397	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A	1.22	32/6038 (0.5%)	1.56	144/8200 (1.8%)
1	B	0.96	27/6039 (0.4%)	1.41	88/8203 (1.1%)
All	All	1.10	59/12077 (0.5%)	1.49	232/16403 (1.4%)

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	67
1	B	0	45
All	All	0	112

All (59) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	466	ILE	C-N	-36.28	0.50	1.34
1	B	127	PRO	C-N	30.25	1.91	1.34
1	A	437	MET	C-N	11.92	1.61	1.34
1	A	75	GLN	CA-CB	-11.01	1.29	1.53
1	B	124	GLY	C-N	9.05	1.54	1.34
1	B	435	ALA	C-O	-7.98	1.08	1.23
1	A	391	PRO	N-CA	-7.88	1.33	1.47
1	A	390	GLU	C-N	-7.67	1.19	1.34
1	B	103	TRP	CG-CD1	-7.57	1.26	1.36
1	A	391	PRO	CA-C	-7.50	1.37	1.52
1	A	542	THR	C-N	7.38	1.48	1.34
1	B	373	PHE	CG-CD2	-7.36	1.27	1.38
1	B	358	VAL	C-N	6.62	1.49	1.34
1	B	172	TYR	CA-C	6.52	1.70	1.52
1	B	114	SER	C-O	-6.46	1.11	1.23
1	A	379	ALA	N-CA	-6.38	1.33	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	268	GLU	C-N	6.35	1.48	1.34
1	B	427	ARG	C-N	6.31	1.44	1.33
1	A	332	LYS	C-O	-6.13	1.11	1.23
1	B	173	ARG	N-CA	6.07	1.58	1.46
1	A	334	ARG	C-N	5.92	1.45	1.34
1	A	335	PRO	N-CD	5.88	1.56	1.47
1	B	271	PRO	N-CD	5.54	1.55	1.47
1	B	267	LYS	C-N	5.51	1.46	1.34
1	B	626	PRO	N-CD	5.50	1.55	1.47
1	B	554	PRO	N-CD	5.49	1.55	1.47
1	A	545	PRO	N-CD	5.44	1.55	1.47
1	B	63	PRO	N-CD	5.44	1.55	1.47
1	A	294	TYR	CB-CG	-5.43	1.43	1.51
1	B	166	PRO	N-CD	5.42	1.55	1.47
1	A	455	PRO	N-CD	5.37	1.55	1.47
1	A	391	PRO	N-CD	-5.34	1.40	1.47
1	B	140	PRO	N-CD	5.31	1.55	1.47
1	A	37	PRO	N-CD	5.30	1.55	1.47
1	B	266	PRO	N-CD	5.30	1.55	1.47
1	A	319	PRO	N-CD	5.28	1.55	1.47
1	A	529	PRO	N-CD	5.27	1.55	1.47
1	B	442	PRO	N-CD	5.26	1.55	1.47
1	B	127	PRO	N-CD	5.25	1.55	1.47
1	A	557	PRO	N-CD	5.22	1.55	1.47
1	A	442	PRO	N-CD	5.21	1.55	1.47
1	B	319	PRO	N-CD	5.21	1.55	1.47
1	A	75	GLN	N-CA	-5.21	1.35	1.46
1	B	267	LYS	C-O	-5.20	1.13	1.23
1	B	160	PRO	N-CD	5.17	1.55	1.47
1	A	259	ARG	C-N	-5.15	1.22	1.34
1	B	499	PRO	N-CD	5.12	1.55	1.47
1	B	545	PRO	N-CD	5.12	1.55	1.47
1	A	355	PRO	N-CD	5.11	1.55	1.47
1	A	375	PRO	N-CD	5.09	1.54	1.47
1	A	520	TRP	N-CA	-5.09	1.36	1.46
1	A	160	PRO	N-CD	5.09	1.54	1.47
1	A	608	GLU	CA-C	-5.09	1.39	1.52
1	A	271	PRO	N-CD	5.09	1.54	1.47
1	A	331	PHE	CB-CG	-5.08	1.42	1.51
1	A	100	PRO	N-CD	5.08	1.54	1.47
1	A	330	PRO	N-CD	5.06	1.54	1.47
1	A	266	PRO	N-CD	5.04	1.54	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	557	PRO	N-CD	5.01	1.54	1.47

All (232) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	441	PHE	C-N-CD	-46.69	17.89	120.60
1	A	542	THR	C-N-CD	15.13	160.17	128.40
1	A	290	LEU	CB-CG-CD1	-13.07	88.79	111.00
1	A	16	LEU	CB-CG-CD1	-12.81	89.22	111.00
1	A	739	SER	O-C-N	-11.26	104.68	122.70
1	B	127	PRO	O-C-N	10.73	141.49	121.10
1	B	127	PRO	C-N-CD	10.72	150.91	128.40
1	B	132	LEU	CB-CG-CD2	-10.60	92.98	111.00
1	A	262	SER	C-N-CD	-10.44	97.63	120.60
1	A	290	LEU	CB-CG-CD2	10.28	128.48	111.00
1	B	386	PHE	O-C-N	-10.24	106.32	122.70
1	B	221	ALA	C-N-CD	-10.15	98.27	120.60
1	A	75	GLN	CA-CB-CG	-10.08	91.22	113.40
1	B	114	SER	O-C-N	-10.04	106.64	122.70
1	A	331	PHE	CB-CG-CD1	-10.02	113.79	120.80
1	A	147	HIS	O-C-N	-9.90	106.86	122.70
1	B	435	ALA	O-C-N	-9.82	106.98	122.70
1	B	354	GLN	C-N-CD	-9.82	99.00	120.60
1	A	396	ARG	NE-CZ-NH1	9.58	125.09	120.30
1	A	396	ARG	N-CA-CB	9.46	127.63	110.60
1	B	114	SER	CA-C-N	-9.40	96.51	117.20
1	B	435	ALA	CA-C-N	-9.32	96.68	117.20
1	A	43	THR	N-CA-C	-9.14	86.32	111.00
1	B	267	LYS	O-C-N	-9.07	108.19	122.70
1	A	739	SER	CA-C-N	8.89	136.75	117.20
1	A	289	ALA	O-C-N	-8.61	108.92	122.70
1	A	437	MET	O-C-N	8.60	136.45	122.70
1	B	626	PRO	CA-N-CD	-8.56	99.52	111.50
1	B	268	GLU	CA-C-N	-8.52	98.47	117.20
1	B	373	PHE	CZ-CE2-CD2	8.39	130.17	120.10
1	B	624	LEU	N-CA-C	-8.39	88.36	111.00
1	A	294	TYR	CB-CA-C	8.33	127.07	110.40
1	B	93	HIS	C-N-CA	8.33	142.53	121.70
1	A	262	SER	N-CA-CB	-8.30	98.05	110.50
1	A	358	VAL	CA-CB-CG1	8.30	123.35	110.90
1	A	479	LEU	CA-CB-CG	-8.17	96.52	115.30
1	A	438	THR	N-CA-C	7.90	132.33	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	347	SER	N-CA-C	-7.84	89.83	111.00
1	A	165	LEU	N-CA-C	7.76	131.94	111.00
1	A	542	THR	C-N-CA	-7.71	89.63	122.00
1	B	171	VAL	C-N-CA	-7.70	102.46	121.70
1	A	332	LYS	O-C-N	-7.69	110.39	122.70
1	A	200	THR	O-C-N	7.57	134.82	122.70
1	A	439	LEU	CB-CG-CD2	7.57	123.87	111.00
1	A	200	THR	CA-C-N	-7.57	100.55	117.20
1	A	75	GLN	N-CA-CB	-7.47	97.16	110.60
1	A	130	ALA	N-CA-CB	7.41	120.48	110.10
1	B	386	PHE	CA-C-N	7.30	133.26	117.20
1	B	373	PHE	CG-CD2-CE2	-7.29	112.78	120.80
1	A	542	THR	O-C-N	7.27	134.92	121.10
1	A	402	ALA	C-N-CD	-7.22	104.71	120.60
1	A	466	ILE	C-N-CA	7.18	139.66	121.70
1	A	44	PHE	CB-CA-C	7.13	124.66	110.40
1	A	220	LEU	CA-CB-CG	7.12	131.69	115.30
1	B	172	TYR	CA-C-N	7.12	132.86	117.20
1	B	297	MET	CG-SD-CE	-7.08	88.87	100.20
1	A	746	LEU	CA-CB-CG	7.03	131.48	115.30
1	B	124	GLY	C-N-CA	-7.01	104.17	121.70
1	A	42	ARG	N-CA-C	6.99	129.86	111.00
1	A	74	ALA	C-N-CA	-6.96	104.29	121.70
1	A	240	SER	N-CA-C	-6.96	92.19	111.00
1	A	551	TYR	O-C-N	6.94	133.81	122.70
1	A	339	THR	CA-CB-CG2	-6.94	102.69	112.40
1	A	497	HIS	N-CA-C	-6.91	92.36	111.00
1	B	93	HIS	O-C-N	6.88	133.70	122.70
1	B	99	ASN	C-N-CD	6.87	142.83	128.40
1	B	171	VAL	CA-C-O	-6.85	105.72	120.10
1	A	520	TRP	N-CA-CB	-6.80	98.36	110.60
1	A	82	VAL	CB-CA-C	-6.79	98.49	111.40
1	B	478	ASP	CB-CG-OD1	6.77	124.39	118.30
1	A	158	LEU	CB-CG-CD1	6.70	122.39	111.00
1	B	116	ARG	C-N-CA	-6.67	105.03	121.70
1	B	131	ILE	C-N-CA	-6.64	105.10	121.70
1	B	124	GLY	O-C-N	6.63	133.31	122.70
1	A	561	LEU	CA-C-N	-6.63	102.61	117.20
1	A	16	LEU	CB-CA-C	-6.62	97.62	110.20
1	A	111	THR	N-CA-C	-6.62	93.14	111.00
1	A	396	ARG	NE-CZ-NH2	-6.55	117.02	120.30
1	A	466	ILE	O-C-N	-6.54	112.23	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	223	ALA	N-CA-C	-6.53	93.36	111.00
1	B	402	ALA	C-N-CD	6.53	142.10	128.40
1	B	132	LEU	CB-CG-CD1	-6.49	99.97	111.00
1	B	329	SER	C-N-CD	6.46	141.96	128.40
1	B	173	ARG	NE-CZ-NH1	6.45	123.52	120.30
1	B	180	TYR	C-N-CD	6.43	141.90	128.40
1	A	752	ASP	O-C-N	6.43	132.98	122.70
1	A	556	GLN	C-N-CD	6.41	141.87	128.40
1	A	62	ASP	C-N-CD	6.38	141.81	128.40
1	A	165	LEU	C-N-CD	6.37	141.76	128.40
1	A	679	GLU	CA-CB-CG	6.36	127.39	113.40
1	A	578	TRP	C-N-CD	6.33	141.69	128.40
1	B	112	GLY	N-CA-C	-6.33	97.29	113.10
1	B	707	LEU	C-N-CA	-6.31	105.91	121.70
1	A	553	LYS	C-N-CD	6.31	141.64	128.40
1	B	267	LYS	C-N-CA	-6.29	105.96	121.70
1	A	625	LYS	C-N-CD	6.29	141.60	128.40
1	A	251	SER	N-CA-CB	-6.24	101.13	110.50
1	A	257	LEU	CA-CB-CG	6.24	129.66	115.30
1	B	556	GLN	C-N-CD	6.24	141.49	128.40
1	A	16	LEU	CA-CB-CG	-6.23	100.97	115.30
1	B	598	ARG	N-CA-C	-6.23	94.18	111.00
1	A	265	THR	C-N-CD	6.23	141.47	128.40
1	A	514	GLY	N-CA-C	-6.22	97.55	113.10
1	A	346	THR	N-CA-C	-6.20	94.25	111.00
1	B	334	ARG	C-N-CD	6.17	141.35	128.40
1	B	94	GLN	N-CA-C	6.16	127.64	111.00
1	A	16	LEU	CB-CG-CD2	6.14	121.45	111.00
1	B	127	PRO	CA-C-N	-6.13	99.92	117.10
1	B	343	ILE	CB-CA-C	-6.10	99.39	111.60
1	B	462	LEU	CA-CB-CG	6.10	129.32	115.30
1	A	541	ARG	NE-CZ-NH2	-6.07	117.27	120.30
1	B	268	GLU	O-C-N	6.06	132.40	122.70
1	A	129	THR	C-N-CA	-6.03	106.62	121.70
1	A	552	ASN	O-C-N	6.00	132.30	122.70
1	A	476	SER	O-C-N	5.99	132.29	122.70
1	A	139	ALA	C-N-CD	5.99	140.98	128.40
1	B	318	ILE	C-N-CD	5.98	140.95	128.40
1	B	492	HIS	N-CA-CB	5.98	121.36	110.60
1	A	173	ARG	N-CA-C	5.96	127.09	111.00
1	A	290	LEU	N-CA-C	-5.94	94.96	111.00
1	A	331	PHE	N-CA-CB	5.93	121.27	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	127	PRO	N-CA-C	5.92	127.50	112.10
1	A	520	TRP	N-CA-C	-5.92	95.02	111.00
1	A	332	LYS	CA-C-N	-5.91	104.20	117.20
1	A	374	THR	C-N-CD	5.90	140.79	128.40
1	A	111	THR	CA-C-N	-5.87	104.45	116.20
1	A	166	PRO	CA-N-CD	-5.87	103.29	111.50
1	A	528	ILE	C-N-CD	5.84	140.67	128.40
1	A	497	HIS	N-CA-CB	-5.82	100.12	110.60
1	A	717	GLY	N-CA-C	-5.82	98.54	113.10
1	A	575	ILE	N-CA-C	5.81	126.70	111.00
1	B	374	THR	C-N-CD	5.81	140.59	128.40
1	A	270	ASP	C-N-CD	5.79	140.56	128.40
1	B	358	VAL	CB-CA-C	-5.78	100.42	111.40
1	B	2	PHE	CB-CG-CD1	-5.78	116.75	120.80
1	A	379	ALA	N-CA-C	-5.77	95.42	111.00
1	B	390	GLU	C-N-CD	5.76	140.51	128.40
1	A	354	GLN	C-N-CD	5.76	140.50	128.40
1	A	626	PRO	CA-N-CD	-5.76	103.44	111.50
1	A	156	HIS	N-CA-C	5.75	126.52	111.00
1	A	42	ARG	NE-CZ-NH2	-5.74	117.43	120.30
1	A	147	HIS	CA-C-N	5.74	129.82	117.20
1	B	139	ALA	C-N-CD	5.74	140.44	128.40
1	B	127	PRO	C-N-CA	-5.73	97.94	122.00
1	A	752	ASP	CA-C-N	-5.73	104.60	117.20
1	B	199	LEU	N-CA-C	5.72	126.45	111.00
1	B	438	THR	C-N-CA	5.71	135.98	121.70
1	A	423	ALA	N-CA-C	-5.71	95.58	111.00
1	A	159	SER	C-N-CD	5.69	140.35	128.40
1	A	167	ASP	N-CA-C	5.69	126.36	111.00
1	B	523	ARG	N-CA-C	5.67	126.31	111.00
1	A	289	ALA	CA-C-N	5.65	129.64	117.20
1	A	358	VAL	CG1-CB-CG2	5.64	119.93	110.90
1	A	242	GLY	N-CA-C	5.64	127.20	113.10
1	A	510	ALA	N-CA-C	-5.64	95.78	111.00
1	B	582	GLU	OE1-CD-OE2	5.64	130.06	123.30
1	A	542	THR	CA-CB-OG1	5.63	120.83	109.00
1	B	171	VAL	CA-C-N	5.61	129.54	117.20
1	B	114	SER	CA-C-O	5.61	131.87	120.10
1	B	265	THR	C-N-CD	5.61	140.17	128.40
1	A	313	LEU	CA-CB-CG	5.60	128.17	115.30
1	A	454	ASP	C-N-CD	5.59	140.15	128.40
1	A	437	MET	CA-C-N	-5.58	104.92	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	267	LYS	CA-C-N	-5.57	104.94	117.20
1	B	578	TRP	C-N-CD	5.57	140.10	128.40
1	A	394	SER	CB-CA-C	-5.56	99.53	110.10
1	A	544	GLU	C-N-CD	5.56	140.08	128.40
1	A	329	SER	C-N-CD	5.56	140.07	128.40
1	A	13	ALA	C-N-CA	5.55	135.57	121.70
1	B	103	TRP	CB-CA-C	-5.54	99.31	110.40
1	B	423	ALA	N-CA-C	-5.54	96.04	111.00
1	A	625	LYS	N-CA-C	-5.53	96.06	111.00
1	A	444	VAL	C-N-CA	-5.53	107.88	121.70
1	A	310	ASP	N-CA-C	-5.52	96.11	111.00
1	A	362	GLU	N-CA-C	5.50	125.84	111.00
1	A	102	ILE	N-CA-C	-5.49	96.17	111.00
1	A	131	ILE	C-N-CA	-5.49	107.98	121.70
1	B	581	HIS	C-N-CA	5.47	135.39	121.70
1	A	343	ILE	C-N-CA	-5.47	110.81	122.30
1	B	287	ASN	CB-CA-C	-5.47	99.45	110.40
1	B	297	MET	CB-CG-SD	-5.47	95.98	112.40
1	A	127	PRO	CA-N-CD	-5.47	103.84	111.50
1	B	171	VAL	CA-CB-CG2	5.46	119.09	110.90
1	B	625	LYS	C-N-CD	5.46	139.86	128.40
1	A	318	ILE	C-N-CD	5.46	139.86	128.40
1	B	694	ALA	O-C-N	-5.44	114.00	122.70
1	B	159	SER	C-N-CD	5.43	139.81	128.40
1	A	406	ASN	N-CA-CB	5.43	120.37	110.60
1	A	130	ALA	CB-CA-C	5.42	118.24	110.10
1	A	126	VAL	C-N-CD	5.37	139.69	128.40
1	B	62	ASP	C-N-CD	5.37	139.69	128.40
1	A	17	THR	N-CA-C	5.35	125.44	111.00
1	A	14	ARG	C-N-CA	-5.34	111.09	122.30
1	B	124	GLY	CA-C-N	-5.32	105.49	117.20
1	B	713	ASP	N-CA-C	-5.30	96.69	111.00
1	B	271	PRO	CA-N-CD	-5.29	104.10	111.50
1	A	558	SER	N-CA-C	-5.28	96.74	111.00
1	A	336	ILE	N-CA-C	5.27	125.24	111.00
1	B	165	LEU	C-N-CD	5.27	139.47	128.40
1	A	44	PHE	C-N-CA	-5.26	108.55	121.70
1	B	25	LEU	CB-CG-CD2	5.26	119.94	111.00
1	A	288	LEU	CA-CB-CG	5.24	127.36	115.30
1	A	668	MET	CB-CG-SD	-5.24	96.68	112.40
1	B	330	PRO	CA-N-CD	-5.23	104.17	111.50
1	A	102	ILE	CA-C-N	-5.22	105.71	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	23	GLY	O-C-N	-5.22	114.35	122.70
1	A	179	THR	N-CA-C	5.21	125.06	111.00
1	A	576	HIS	CB-CA-C	-5.20	99.99	110.40
1	A	137	THR	N-CA-C	5.20	125.03	111.00
1	B	574	SER	N-CA-C	5.18	124.99	111.00
1	B	607	LYS	N-CA-C	-5.17	97.03	111.00
1	B	173	ARG	CA-CB-CG	5.17	124.78	113.40
1	A	679	GLU	N-CA-CB	5.17	119.90	110.60
1	B	439	LEU	N-CA-C	5.17	124.95	111.00
1	A	390	GLU	N-CA-C	-5.16	97.06	111.00
1	A	301	ARG	N-CA-C	-5.16	97.08	111.00
1	A	75	GLN	N-CA-C	5.16	124.92	111.00
1	A	685	GLY	N-CA-C	-5.15	100.23	113.10
1	A	172	TYR	N-CA-C	-5.14	97.13	111.00
1	A	442	PRO	N-CA-C	-5.12	98.78	112.10
1	B	553	LYS	C-N-CD	5.12	139.16	128.40
1	A	640	PHE	N-CA-C	-5.12	97.18	111.00
1	A	441	PHE	C-N-CD	5.11	139.13	128.40
1	A	465	GLY	N-CA-C	5.11	125.86	113.10
1	A	528	ILE	CB-CA-C	-5.09	101.41	111.60
1	A	162	GLY	O-C-N	5.08	130.83	122.70
1	A	714	LEU	C-N-CA	-5.08	109.00	121.70
1	A	531	GLY	N-CA-C	5.07	125.79	113.10
1	B	267	LYS	N-CA-CB	-5.07	101.47	110.60
1	A	551	TYR	CA-C-N	-5.05	106.09	117.20
1	B	675	LEU	CA-CB-CG	5.01	126.83	115.30
1	B	636	TRP	CA-CB-CG	5.01	123.22	113.70

There are no chirality outliers.

All (112) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	110	ILE	Peptide
1	A	113	SER	Peptide
1	A	127	PRO	Peptide
1	A	129	THR	Peptide
1	A	130	ALA	Peptide
1	A	146	PHE	Peptide
1	A	147	HIS	Mainchain
1	A	167	ASP	Peptide
1	A	177	THR	Peptide
1	A	178	ALA	Peptide

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Mol	Chain	Res	Type	Group
1	A	199	LEU	Peptide
1	A	208	LYS	Peptide
1	A	210	LEU	Mainchain
1	A	223	ALA	Peptide
1	A	23	GLY	Peptide
1	A	230	ALA	Peptide
1	A	243	ASN	Peptide
1	A	248	ALA	Peptide
1	A	25	LEU	Peptide
1	A	264	SER	Peptide
1	A	272	SER	Peptide
1	A	273	ALA	Peptide
1	A	276	ARG	Peptide
1	A	289	ALA	Mainchain
1	A	314	SER	Peptide
1	A	315	SER	Peptide
1	A	316	THR	Peptide
1	A	317	ILE	Peptide
1	A	332	LYS	Mainchain
1	A	34	LEU	Peptide
1	A	347	SER	Peptide
1	A	365	GLN	Peptide
1	A	366	PHE	Peptide
1	A	376	VAL	Peptide
1	A	379	ALA	Peptide
1	A	380	ASN	Peptide
1	A	390	GLU	Peptide
1	A	391	PRO	Peptide
1	A	396	ARG	Sidechain
1	A	397	MET	Mainchain
1	A	405	GLY	Mainchain
1	A	409	ALA	Peptide
1	A	422	GLU	Peptide
1	A	426	GLN	Peptide
1	A	433	ASN	Peptide
1	A	438	THR	Peptide
1	A	440	GLY	Peptide
1	A	459	ILE	Peptide
1	A	464	THR	Peptide
1	A	466	ILE	Mainchain
1	A	497	HIS	Peptide
1	A	513	GLN	Peptide

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Mol	Chain	Res	Type	Group
1	A	519	VAL	Peptide
1	A	52	LEU	Peptide
1	A	544	GLU	Peptide
1	A	557	PRO	Peptide
1	A	561	LEU	Mainchain
1	A	565	VAL	Peptide
1	A	585	THR	Peptide
1	A	60	ASN	Peptide
1	A	627	THR	Peptide
1	A	712	SER	Peptide
1	A	714	LEU	Mainchain
1	A	737	LEU	Peptide
1	A	738	LEU	Peptide
1	A	753	SER	Peptide
1	A	758	MET	Peptide
1	B	114	SER	Mainchain
1	B	115	ASN	Peptide
1	B	116	ARG	Peptide
1	B	163	PHE	Peptide
1	B	165	LEU	Peptide
1	B	171	VAL	Peptide
1	B	172	TYR	Peptide
1	B	23	GLY	Mainchain
1	B	240	SER	Peptide
1	B	266	PRO	Peptide
1	B	267	LYS	Mainchain
1	B	309	SER	Peptide
1	B	314	SER	Peptide
1	B	316	THR	Peptide
1	B	333	LEU	Peptide
1	B	340	THR	Peptide
1	B	37	PRO	Peptide
1	B	373	PHE	Sidechain
1	B	393	ILE	Peptide
1	B	4	LEU	Peptide
1	B	40	PHE	Peptide
1	B	402	ALA	Peptide
1	B	42	ARG	Peptide
1	B	420	VAL	Peptide
1	B	43	THR	Peptide
1	B	435	ALA	Mainchain
1	B	438	THR	Peptide

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Mol	Chain	Res	Type	Group
1	B	470	SER	Peptide
1	B	492	HIS	Peptide
1	B	506	HIS	Peptide
1	B	510	ALA	Peptide
1	B	523	ARG	Peptide
1	B	53	LEU	Peptide
1	B	552	ASN	Peptide
1	B	580	TRP	Peptide
1	B	586	GLU	Peptide
1	B	607	LYS	Mainchain
1	B	608	GLU	Peptide
1	B	683	THR	Peptide
1	B	710	ASP	Peptide
1	B	712	SER	Peptide
1	B	734	MET	Peptide
1	B	8	ASP	Peptide
1	B	94	GLN	Peptide,Mainchain

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	5920	0	5870	3751	0
1	B	5920	0	5883	4050	0
All	All	11840	0	11753	7764	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 329.

All (7764) 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:61:ILE:HG22	1:A:156:HIS:CD2	1.18	1.68
1:A:732:LEU:CD1	1:A:738:LEU:HD22	1.23	1.67
1:B:373:PHE:CD2	1:B:583:ALA:HB1	1.31	1.66
1:B:670:ASN:HD21	1:B:749:VAL:CG1	1.07	1.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2:PHE:CG	1:A:459:ILE:HG21	1.28	1.65
1:B:156:HIS:CD2	1:B:158:LEU:H	1.14	1.65
1:B:308:PHE:CZ	1:B:318:ILE:HB	1.29	1.61
1:B:260:LEU:HD12	1:B:261:TRP:CD1	1.29	1.61
1:B:53:LEU:HD21	1:B:571:HIS:CE1	1.13	1.60
1:A:636:TRP:CH2	1:A:640:PHE:CE2	1.77	1.59
1:A:250:VAL:CG1	1:A:253:VAL:HG11	1.25	1.59
1:B:681:ILE:HG22	1:B:731:VAL:CG1	1.31	1.59
1:B:407:THR:HG23	1:B:408:PHE:CD2	1.26	1.58
1:B:93:HIS:HB3	1:B:237:PHE:CE1	1.38	1.58
1:B:404:ILE:HG21	1:B:737:LEU:CD2	1.30	1.55
1:A:587:PHE:CE2	1:A:621:VAL:HB	1.09	1.55
1:A:587:PHE:CZ	1:A:621:VAL:CG1	1.89	1.54
1:B:633:ILE:HG21	1:B:738:LEU:CD2	1.33	1.54
1:A:61:ILE:CG2	1:A:156:HIS:CD2	1.89	1.53
1:B:506:HIS:HB2	1:B:517:TYR:CZ	1.38	1.53
1:A:250:VAL:HG12	1:A:253:VAL:CG1	1.36	1.53
1:A:715:HIS:HE2	1:B:378:LEU:CD2	1.19	1.53
1:B:526:LEU:CA	1:B:527:ARG:NH1	1.70	1.52
1:A:2:PHE:CD1	1:A:459:ILE:HG21	1.44	1.51
1:B:377:LYS:CB	1:B:385:ARG:NH1	1.70	1.51
1:A:127:PRO:HG2	1:A:130:ALA:CA	1.36	1.50
1:A:128:PRO:HA	1:A:166:PRO:CG	1.35	1.50
1:A:408:PHE:CD2	1:A:636:TRP:NE1	1.76	1.50
1:B:408:PHE:CE1	1:B:636:TRP:HD1	1.26	1.49
1:B:497:HIS:CG	1:B:549:ILE:CD1	1.94	1.49
1:B:497:HIS:CB	1:B:549:ILE:HD11	1.06	1.49
1:B:94:GLN:N	1:B:237:PHE:CZ	1.77	1.48
1:B:497:HIS:CB	1:B:549:ILE:CD1	1.85	1.48
1:A:587:PHE:CE2	1:A:621:VAL:CB	1.94	1.48
1:A:128:PRO:N	1:A:166:PRO:HB2	1.25	1.47
1:B:377:LYS:HB3	1:B:385:ARG:CZ	1.44	1.47
1:B:526:LEU:CD2	1:B:527:ARG:H	1.26	1.47
1:B:577:ILE:HD12	1:B:578:TRP:N	1.24	1.47
1:A:42:ARG:CA	1:A:289:ALA:CB	1.91	1.47
1:A:101:GLU:C	1:A:104:ARG:HD2	1.12	1.47
1:B:226:SER:HA	1:B:229:LEU:CB	1.40	1.46
1:A:346:THR:HG22	1:A:359:VAL:C	1.12	1.46
1:A:630:HIS:HB2	1:A:737:LEU:CG	1.40	1.46
1:B:94:GLN:HA	1:B:237:PHE:CE2	1.50	1.46
1:B:354:GLN:CB	1:B:528:ILE:HG21	1.41	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:228:HIS:HD2	1:B:231:ASN:ND2	1.10	1.46
1:B:506:HIS:HB2	1:B:517:TYR:CE1	1.51	1.46
1:B:681:ILE:CG2	1:B:731:VAL:HG11	1.00	1.45
1:A:587:PHE:HZ	1:A:621:VAL:CG1	1.17	1.45
1:A:653:THR:C	1:A:655:ARG:HG3	1.30	1.45
1:B:497:HIS:CG	1:B:549:ILE:HD11	1.48	1.45
1:B:642:GLU:CA	1:B:645:ARG:NH1	1.78	1.45
1:B:156:HIS:CE1	1:B:157:VAL:CG2	1.98	1.44
1:B:497:HIS:CD2	1:B:549:ILE:HD12	1.51	1.44
1:A:101:GLU:CA	1:A:104:ARG:HD2	1.47	1.44
1:B:321:PHE:HD1	1:B:325:MET:SD	1.41	1.44
1:B:182:ASN:HB2	1:B:484:PHE:CE1	1.50	1.43
1:A:404:ILE:CD1	1:A:681:ILE:HG23	1.45	1.43
1:B:404:ILE:HD13	1:B:737:LEU:CD2	1.46	1.43
1:A:101:GLU:O	1:A:104:ARG:CD	1.65	1.42
1:A:127:PRO:HA	1:A:166:PRO:CB	1.49	1.42
1:B:156:HIS:CE1	1:B:157:VAL:HG23	1.49	1.42
1:A:408:PHE:CZ	1:A:636:TRP:CZ2	2.06	1.42
1:A:715:HIS:NE2	1:B:378:LEU:HD21	1.17	1.41
1:B:633:ILE:CG2	1:B:738:LEU:HD21	1.50	1.41
1:B:647:LEU:CD2	1:B:663:ILE:HB	1.48	1.41
1:A:732:LEU:HD12	1:A:738:LEU:CD2	1.47	1.41
1:A:715:HIS:CE1	1:B:378:LEU:HD22	1.54	1.41
1:A:106:LEU:HD21	1:A:135:LEU:CD2	1.48	1.41
1:B:506:HIS:CB	1:B:517:TYR:CE1	2.02	1.40
1:B:642:GLU:HA	1:B:645:ARG:NH1	1.12	1.40
1:A:127:PRO:CA	1:A:166:PRO:HB3	1.50	1.40
1:A:159:SER:HB2	1:A:164:ILE:CB	1.30	1.40
1:A:195:LEU:CD2	1:A:199:LEU:HG	1.52	1.40
1:B:670:ASN:ND2	1:B:749:VAL:CG1	1.75	1.40
1:B:607:LYS:C	1:B:609:PHE:HB2	1.43	1.40
1:A:636:TRP:CZ3	1:A:640:PHE:CD2	2.10	1.40
1:A:636:TRP:CZ2	1:A:640:PHE:CE2	2.11	1.39
1:B:408:PHE:CD1	1:B:636:TRP:HD1	1.36	1.39
1:B:580:TRP:HZ2	1:B:581:HIS:CE1	1.38	1.39
1:B:260:LEU:CD1	1:B:261:TRP:CD1	2.04	1.39
1:B:408:PHE:CD1	1:B:636:TRP:CD1	2.08	1.39
1:B:467:VAL:CG2	1:B:479:LEU:HD11	1.51	1.39
1:B:568:LEU:CD1	1:B:572:THR:OG1	1.69	1.39
1:B:376:VAL:CG2	1:B:386:PHE:O	1.71	1.38
1:B:614:LEU:HD13	1:B:615:GLY:N	1.36	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:681:ILE:CG2	1:B:731:VAL:CG1	1.91	1.38
1:A:136:ARG:HB2	1:A:147:HIS:NE2	1.31	1.38
1:A:344:GLY:O	1:A:360:VAL:CB	1.71	1.38
1:A:566:LEU:CD1	1:A:568:LEU:HG	1.52	1.38
1:A:346:THR:CG2	1:A:359:VAL:C	1.92	1.37
1:B:642:GLU:CB	1:B:645:ARG:HH12	1.34	1.37
1:A:408:PHE:CZ	1:A:636:TRP:HZ2	1.42	1.37
1:B:407:THR:CG2	1:B:408:PHE:CD2	2.07	1.37
1:B:404:ILE:CG2	1:B:737:LEU:CD2	2.02	1.36
1:B:53:LEU:CD2	1:B:571:HIS:CE1	2.09	1.36
1:B:156:HIS:NE2	1:B:157:VAL:HG23	1.33	1.36
1:B:308:PHE:CZ	1:B:318:ILE:CB	2.09	1.36
1:B:371:THR:O	1:B:623:ILE:HG12	1.24	1.36
1:A:346:THR:OG1	1:A:358:VAL:HA	1.25	1.36
1:A:42:ARG:N	1:A:289:ALA:HB2	1.06	1.35
1:A:292:ILE:CG2	1:A:295:GLN:HB3	1.55	1.35
1:A:40:PHE:CD2	1:A:291:PHE:HB2	1.60	1.35
1:A:272:SER:H	1:A:276:ARG:CD	1.40	1.35
1:A:408:PHE:CE2	1:A:636:TRP:CE2	2.14	1.35
1:B:373:PHE:CD2	1:B:583:ALA:CB	2.08	1.34
1:A:10:ASN:O	1:A:14:ARG:HB2	1.27	1.34
1:B:228:HIS:CD2	1:B:231:ASN:HD21	1.45	1.34
1:B:670:ASN:ND2	1:B:749:VAL:HG11	1.34	1.34
1:A:42:ARG:O	1:A:289:ALA:CB	1.75	1.34
1:A:187:VAL:HG13	1:A:246:ALA:C	1.47	1.33
1:A:128:PRO:CD	1:A:166:PRO:HB2	1.56	1.33
1:B:354:GLN:HB2	1:B:528:ILE:CG2	1.59	1.33
1:A:234:THR:O	1:A:237:PHE:HB3	1.18	1.33
1:B:228:HIS:CD2	1:B:231:ASN:ND2	1.95	1.33
1:A:637:TYR:OH	1:A:745:ALA:CB	1.75	1.33
1:A:523:ARG:HD3	1:A:524:THR:N	1.41	1.32
1:A:133:GLU:OE1	1:A:136:ARG:HB3	1.18	1.32
1:A:2:PHE:HZ	1:A:486:TYR:CE2	1.46	1.32
1:A:42:ARG:N	1:A:289:ALA:CB	1.85	1.32
1:A:187:VAL:HG13	1:A:246:ALA:O	1.23	1.32
1:B:506:HIS:N	1:B:517:TYR:OH	1.62	1.32
1:B:702:MET:SD	1:B:714:LEU:HD12	1.66	1.32
1:B:183:PHE:CA	1:B:186:LEU:HD13	1.60	1.32
1:B:580:TRP:CZ2	1:B:581:HIS:CG	2.18	1.32
1:A:133:GLU:OE1	1:A:136:ARG:CB	1.78	1.32
1:A:344:GLY:C	1:A:360:VAL:HB	1.48	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:653:THR:O	1:A:655:ARG:CG	1.77	1.31
1:B:449:TYR:CG	1:B:634:GLN:OE1	1.82	1.31
1:A:61:ILE:HG22	1:A:156:HIS:NE2	1.39	1.31
1:B:408:PHE:CE1	1:B:636:TRP:CD1	2.18	1.31
1:B:94:GLN:CA	1:B:237:PHE:CZ	2.14	1.31
1:B:623:ILE:HD12	1:B:625:LYS:CB	1.59	1.31
1:A:732:LEU:O	1:A:738:LEU:CD1	1.77	1.31
1:B:586:GLU:O	1:B:622:ARG:NE	1.63	1.31
1:B:497:HIS:CD2	1:B:549:ILE:CD1	2.10	1.30
1:A:42:ARG:C	1:A:289:ALA:CB	1.98	1.30
1:A:116:ARG:O	1:A:220:LEU:HD12	1.29	1.30
1:A:408:PHE:CG	1:A:636:TRP:NE1	1.90	1.30
1:A:86:VAL:HB	1:A:191:ARG:CD	1.60	1.30
1:A:346:THR:HG21	1:A:358:VAL:C	1.52	1.30
1:B:702:MET:CG	1:B:714:LEU:HD12	1.61	1.30
1:A:36:LEU:H	1:A:263:PRO:CB	1.42	1.29
1:A:653:THR:C	1:A:655:ARG:CG	1.99	1.29
1:A:408:PHE:CE2	1:A:636:TRP:NE1	2.01	1.29
1:A:20:PHE:O	1:A:299:LYS:NZ	1.64	1.29
1:B:620:ARG:O	1:B:621:VAL:HG13	1.26	1.29
1:A:170:TYR:CD2	1:A:576:HIS:CE1	2.20	1.29
1:A:715:HIS:NE2	1:B:378:LEU:CD2	1.77	1.29
1:A:176:ARG:HH12	1:A:446:GLU:C	1.28	1.28
1:A:517:TYR:CD2	1:A:520:TRP:CZ2	2.18	1.28
1:B:93:HIS:CB	1:B:237:PHE:CE1	2.14	1.28
1:B:361:TYR:CD1	1:B:441:PHE:CE2	2.20	1.28
1:B:643:ASP:OD2	1:B:666:ARG:CG	1.81	1.28
1:B:156:HIS:CD2	1:B:158:LEU:N	1.98	1.28
1:B:339:THR:HG21	1:B:492:HIS:O	1.30	1.28
1:B:580:TRP:CZ2	1:B:581:HIS:CD2	2.19	1.28
1:A:173:ARG:NH1	1:A:174:VAL:O	1.66	1.28
1:A:587:PHE:HE2	1:A:621:VAL:CB	1.35	1.28
1:A:101:GLU:CA	1:A:104:ARG:CD	2.10	1.28
1:A:116:ARG:C	1:A:220:LEU:HD12	1.52	1.28
1:A:468:ASP:O	1:A:469:GLU:HG2	1.20	1.28
1:A:517:TYR:HE2	1:A:520:TRP:CZ3	1.50	1.28
1:A:653:THR:O	1:A:655:ARG:HG3	1.22	1.28
1:B:580:TRP:CZ2	1:B:581:HIS:CE1	2.20	1.28
1:A:129:THR:O	1:A:132:LEU:N	1.64	1.27
1:A:517:TYR:HE2	1:A:520:TRP:CE3	1.51	1.27
1:A:566:LEU:HD11	1:A:568:LEU:CG	1.63	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:526:LEU:HD22	1:B:527:ARG:N	1.42	1.27
1:B:568:LEU:HD12	1:B:572:THR:OG1	1.20	1.27
1:B:607:LYS:HB2	1:B:608:GLU:C	1.54	1.27
1:A:517:TYR:CE2	1:A:520:TRP:CZ3	2.22	1.27
1:B:506:HIS:HB2	1:B:517:TYR:OH	1.28	1.27
1:A:99:ASN:OD1	1:A:101:GLU:OE2	1.52	1.26
1:A:116:ARG:HG2	1:A:222:PRO:O	1.13	1.26
1:B:681:ILE:O	1:B:731:VAL:HG21	1.27	1.26
1:A:630:HIS:CB	1:A:737:LEU:HG	1.66	1.26
1:A:42:ARG:H	1:A:289:ALA:CB	1.43	1.26
1:B:321:PHE:CD1	1:B:325:MET:SD	2.29	1.26
1:B:404:ILE:CD1	1:B:737:LEU:HD21	1.66	1.26
1:B:407:THR:CG2	1:B:408:PHE:CE2	2.18	1.26
1:A:42:ARG:HG3	1:A:336:ILE:CD1	1.62	1.26
1:A:636:TRP:CZ3	1:A:640:PHE:CE2	2.24	1.26
1:A:517:TYR:CE2	1:A:520:TRP:CH2	2.21	1.26
1:B:308:PHE:CE2	1:B:318:ILE:HB	1.70	1.26
1:B:424:VAL:O	1:B:430:VAL:HA	1.22	1.26
1:B:309:SER:OG	1:B:315:SER:CA	1.84	1.25
1:B:407:THR:HG21	1:B:408:PHE:CE2	1.69	1.25
1:B:506:HIS:CB	1:B:517:TYR:HE1	1.42	1.25
1:B:593:TYR:HD2	1:B:726:TRP:CG	1.53	1.25
1:B:308:PHE:CE2	1:B:318:ILE:CG1	2.18	1.25
1:B:371:THR:O	1:B:623:ILE:CG1	1.83	1.25
1:B:580:TRP:CH2	1:B:581:HIS:CD2	2.23	1.25
1:A:101:GLU:O	1:A:104:ARG:HD2	1.10	1.25
1:B:401:LEU:O	1:B:404:ILE:N	1.65	1.25
1:B:590:GLU:CA	1:B:608:GLU:HB3	1.65	1.25
1:A:347:SER:CB	1:A:348:ALA:HB2	1.65	1.25
1:A:744:GLU:OE1	1:A:747:THR:HG21	1.21	1.24
1:B:623:ILE:CD1	1:B:625:LYS:HB3	1.68	1.24
1:A:598:ARG:O	1:A:599:ASN:ND2	1.68	1.24
1:B:308:PHE:HE2	1:B:318:ILE:CG1	1.49	1.24
1:B:514:GLY:O	1:B:516:LEU:HD13	1.09	1.24
1:A:461:ALA:HA	1:A:464:THR:CG2	1.68	1.24
1:A:468:ASP:O	1:A:469:GLU:CG	1.84	1.24
1:A:566:LEU:CD1	1:A:568:LEU:H	1.50	1.24
1:A:715:HIS:CD2	1:B:376:VAL:HG11	1.70	1.24
1:B:182:ASN:O	1:B:185:ALA:HB3	1.26	1.24
1:A:178:ALA:HB1	1:A:485:ASN:OD1	1.23	1.24
1:A:408:PHE:CE2	1:A:636:TRP:CZ2	2.24	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:416:ASN:ND2	1:B:673:THR:HG21	1.48	1.24
1:B:127:PRO:C	1:B:128:PRO:N	1.91	1.24
1:B:148:HIS:O	1:B:151:THR:OG1	1.55	1.24
1:A:630:HIS:HB2	1:A:737:LEU:CD2	1.66	1.23
1:B:94:GLN:CA	1:B:237:PHE:CE2	2.19	1.23
1:B:309:SER:OG	1:B:315:SER:N	1.71	1.23
1:A:2:PHE:CG	1:A:459:ILE:CG2	2.22	1.23
1:B:37:PRO:HG2	1:B:261:TRP:CZ3	1.73	1.23
1:B:404:ILE:CG2	1:B:737:LEU:HD23	1.64	1.23
1:B:590:GLU:HA	1:B:608:GLU:CB	1.53	1.23
1:A:87:ASN:OD1	1:A:191:ARG:NH1	1.70	1.23
1:A:105:LYS:NZ	1:A:137:THR:OG1	1.69	1.23
1:A:259:ARG:NH2	1:A:513:GLN:O	1.68	1.23
1:A:653:THR:CA	1:A:655:ARG:HG3	1.68	1.23
1:B:322:ILE:N	1:B:325:MET:SD	2.11	1.23
1:A:177:THR:HA	1:A:447:ARG:NH2	1.54	1.22
1:A:116:ARG:O	1:A:220:LEU:CD1	1.87	1.22
1:A:229:LEU:O	1:A:233:ALA:HB2	1.34	1.22
1:A:250:VAL:CA	1:A:253:VAL:HG12	1.70	1.22
1:A:461:ALA:CA	1:A:464:THR:HG22	1.68	1.22
1:A:718:ILE:O	1:A:721:HIS:N	1.73	1.22
1:A:82:VAL:HA	1:A:85:LEU:CG	1.66	1.22
1:A:195:LEU:O	1:A:199:LEU:HB2	1.39	1.22
1:B:408:PHE:CD1	1:B:413:PHE:CE2	2.27	1.22
1:B:539:SER:O	1:B:541:ARG:HG2	1.06	1.22
1:B:681:ILE:C	1:B:731:VAL:HG21	1.58	1.22
1:B:720:ARG:O	1:B:724:ARG:HB2	1.38	1.22
1:A:346:THR:HG22	1:A:359:VAL:O	1.35	1.22
1:A:63:PRO:O	1:A:200:THR:OG1	1.53	1.21
1:A:159:SER:HB2	1:A:164:ILE:CA	1.68	1.21
1:B:93:HIS:C	1:B:237:PHE:CE1	2.12	1.21
1:A:159:SER:CA	1:A:163:PHE:O	1.87	1.21
1:A:342:TYR:HA	1:A:559:GLU:CG	1.69	1.21
1:A:520:TRP:CD2	1:A:545:PRO:HG3	1.75	1.21
1:B:156:HIS:CG	1:B:157:VAL:H	1.48	1.21
1:B:182:ASN:HB2	1:B:484:PHE:CZ	1.74	1.21
1:B:449:TYR:CD1	1:B:634:GLN:OE1	1.94	1.21
1:A:350:ASP:OD1	1:A:351:HIS:HB2	1.40	1.21
1:B:180:TYR:CE2	1:B:492:HIS:CE1	2.29	1.21
1:B:228:HIS:O	1:B:231:ASN:N	1.73	1.21
1:A:36:LEU:N	1:A:263:PRO:HB3	1.55	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:346:THR:OG1	1:A:358:VAL:CA	1.88	1.20
1:A:587:PHE:CZ	1:A:621:VAL:HB	1.77	1.20
1:A:630:HIS:CA	1:A:737:LEU:HG	1.69	1.20
1:B:386:PHE:CZ	1:B:576:HIS:N	1.77	1.20
1:A:61:ILE:CG2	1:A:156:HIS:HD2	1.29	1.20
1:A:527:ARG:HH22	1:A:528:ILE:CD1	1.53	1.20
1:A:548:ALA:O	1:A:552:ASN:N	1.74	1.20
1:B:126:VAL:H	1:B:127:PRO:HD2	1.03	1.20
1:B:361:TYR:CD1	1:B:441:PHE:HE2	1.58	1.20
1:A:128:PRO:N	1:A:166:PRO:CB	2.02	1.20
1:A:159:SER:HA	1:A:163:PHE:O	1.04	1.20
1:A:732:LEU:O	1:A:738:LEU:HD11	1.06	1.20
1:A:732:LEU:CG	1:A:738:LEU:HD22	1.70	1.20
1:A:347:SER:HB3	1:A:348:ALA:CB	1.70	1.20
1:A:744:GLU:HA	1:A:747:THR:HG22	1.23	1.20
1:B:593:TYR:HD2	1:B:726:TRP:CD1	1.58	1.20
1:A:42:ARG:C	1:A:289:ALA:HB1	1.58	1.19
1:A:718:ILE:HA	1:A:721:HIS:HB2	1.24	1.19
1:A:2:PHE:C	1:A:3:ASN:HD22	1.43	1.19
1:A:177:THR:CB	1:A:447:ARG:HH22	1.53	1.19
1:A:715:HIS:CE1	1:B:378:LEU:CD2	2.20	1.19
1:B:245:ASP:CG	1:B:248:ALA:H	1.42	1.19
1:B:401:LEU:HA	1:B:404:ILE:CG1	1.72	1.19
1:B:681:ILE:O	1:B:684:THR:OG1	1.55	1.19
1:B:694:ALA:O	1:B:698:ILE:HG12	1.37	1.19
1:A:476:SER:O	1:A:479:LEU:N	1.76	1.19
1:A:732:LEU:CD1	1:A:738:LEU:CD2	2.08	1.19
1:A:127:PRO:HG2	1:A:130:ALA:CB	1.72	1.19
1:A:717:GLY:O	1:A:720:ARG:N	1.74	1.19
1:B:720:ARG:O	1:B:724:ARG:NH1	1.72	1.19
1:A:209:MET:SD	1:A:210:LEU:N	2.14	1.19
1:A:636:TRP:CE2	1:A:640:PHE:CZ	2.30	1.19
1:B:94:GLN:N	1:B:237:PHE:CE1	2.11	1.19
1:B:501:VAL:CG1	1:B:518:LEU:HB3	1.72	1.19
1:A:159:SER:CB	1:A:164:ILE:HB	1.68	1.18
1:A:540:ILE:CG2	1:A:541:ARG:HH21	1.54	1.18
1:B:163:PHE:HB3	1:B:164:ILE:HG22	1.18	1.18
1:A:517:TYR:CE2	1:A:520:TRP:CD2	2.31	1.18
1:B:471:LEU:CD1	1:B:479:LEU:HD22	1.71	1.18
1:B:501:VAL:HG11	1:B:518:LEU:HB3	1.24	1.18
1:A:81:SER:O	1:A:85:LEU:HD23	1.41	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:396:ARG:HD2	1:B:612:LEU:CD2	1.73	1.18
1:B:539:SER:O	1:B:541:ARG:CG	1.90	1.18
1:A:517:TYR:HE2	1:A:520:TRP:CD2	1.62	1.18
1:A:654:SER:HA	1:A:655:ARG:HB2	1.21	1.18
1:B:424:VAL:CG2	1:B:430:VAL:HG13	1.73	1.18
1:A:420:VAL:HG11	1:A:643:ASP:CG	1.62	1.18
1:B:54:TRP:N	1:B:172:TYR:O	1.77	1.18
1:B:156:HIS:CD2	1:B:157:VAL:H	1.61	1.18
1:B:173:ARG:HD2	1:B:174:VAL:N	1.57	1.18
1:B:245:ASP:HB3	1:B:248:ALA:CB	1.74	1.18
1:A:2:PHE:CD1	1:A:459:ILE:CG2	2.26	1.17
1:A:743:ALA:O	1:A:747:THR:N	1.76	1.17
1:B:226:SER:CA	1:B:229:LEU:HB2	1.74	1.17
1:B:308:PHE:CE2	1:B:318:ILE:CB	2.26	1.17
1:A:159:SER:CB	1:A:164:ILE:CB	2.12	1.17
1:A:630:HIS:CB	1:A:737:LEU:CG	2.19	1.17
1:A:73:TYR:CZ	1:A:143:HIS:HB3	1.79	1.17
1:A:272:SER:O	1:A:276:ARG:NE	1.75	1.17
1:A:590:GLU:CD	1:A:608:GLU:OE1	1.83	1.17
1:B:35:GLN:HB3	1:B:502:VAL:HB	1.22	1.17
1:A:128:PRO:CA	1:A:166:PRO:CG	2.21	1.17
1:B:376:VAL:O	1:B:378:LEU:HG	1.45	1.17
1:A:161:LEU:O	1:A:163:PHE:N	1.77	1.17
1:A:234:THR:HA	1:A:237:PHE:HB2	1.23	1.17
1:A:268:GLU:OE2	1:A:269:LEU:HG	1.45	1.17
1:A:636:TRP:CH2	1:A:640:PHE:CD2	2.28	1.17
1:B:372:ALA:CB	1:B:389:VAL:HG23	1.73	1.16
1:A:128:PRO:CA	1:A:166:PRO:HG2	1.73	1.16
1:A:180:TYR:CD1	1:A:331:PHE:HB3	1.80	1.16
1:A:187:VAL:CG1	1:A:246:ALA:C	2.12	1.16
1:B:93:HIS:CG	1:B:237:PHE:HD1	1.62	1.16
1:B:309:SER:OG	1:B:310:ASP:O	1.60	1.16
1:B:577:ILE:CD1	1:B:578:TRP:H	1.58	1.16
1:A:133:GLU:OE1	1:A:136:ARG:CG	1.92	1.16
1:A:590:GLU:OE2	1:A:608:GLU:OE1	1.64	1.16
1:B:321:PHE:CE1	1:B:325:MET:HG2	1.80	1.16
1:B:401:LEU:HD22	1:B:404:ILE:CD1	1.76	1.16
1:A:9:LEU:HD23	1:A:10:ASN:N	1.58	1.16
1:A:82:VAL:HA	1:A:85:LEU:CD2	1.76	1.16
1:A:517:TYR:HD2	1:A:520:TRP:CZ2	1.60	1.16
1:A:359:VAL:HA	1:A:438:THR:HA	1.16	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:535:ILE:HD11	1:A:540:ILE:HA	1.16	1.16
1:A:101:GLU:O	1:A:104:ARG:CG	1.94	1.15
1:A:461:ALA:O	1:A:464:THR:N	1.78	1.15
1:B:372:ALA:HB3	1:B:389:VAL:CG2	1.76	1.15
1:A:272:SER:H	1:A:276:ARG:NE	1.42	1.15
1:A:292:ILE:CG2	1:A:295:GLN:CB	2.23	1.15
1:A:342:TYR:CA	1:A:559:GLU:HG2	1.75	1.15
1:B:9:LEU:HB3	1:B:16:LEU:HD23	1.25	1.15
1:B:289:ALA:HA	1:B:292:ILE:HD13	1.25	1.15
1:A:107:THR:O	1:A:112:GLY:HA3	1.44	1.15
1:A:126:VAL:HG21	1:A:165:LEU:HB2	1.20	1.15
1:B:183:PHE:HA	1:B:186:LEU:CD1	1.76	1.15
1:B:415:LYS:HE3	1:B:416:ASN:HA	1.18	1.15
1:B:606:VAL:HB	1:B:697:ARG:HH21	1.09	1.15
1:A:170:TYR:CE2	1:A:576:HIS:CE1	2.35	1.15
1:A:250:VAL:CB	1:A:253:VAL:CG1	2.25	1.15
1:A:523:ARG:HD3	1:A:524:THR:CA	1.77	1.15
1:A:6:VAL:HA	1:A:9:LEU:HD13	1.25	1.15
1:A:690:ALA:O	1:A:693:LEU:HB2	1.47	1.15
1:A:713:ASP:O	1:A:714:LEU:HB3	1.47	1.15
1:B:670:ASN:ND2	1:B:749:VAL:HG12	1.58	1.15
1:A:119:LYS:HA	1:A:219:ALA:HA	1.26	1.14
1:B:48:MET:HA	1:B:179:THR:HG22	1.28	1.14
1:B:497:HIS:HB3	1:B:549:ILE:CD1	1.74	1.14
1:B:725:ILE:HD13	1:B:728:GLY:HA3	1.27	1.14
1:A:36:LEU:HB2	1:A:263:PRO:N	1.62	1.14
1:A:126:VAL:CG2	1:A:165:LEU:HB2	1.50	1.14
1:A:268:GLU:OE2	1:A:269:LEU:CG	1.96	1.14
1:B:4:LEU:HA	1:B:5:LYS:HG2	1.25	1.14
1:B:22:ILE:O	1:B:515:SER:OG	1.62	1.14
1:B:377:LYS:CB	1:B:385:ARG:CZ	2.12	1.14
1:B:614:LEU:CD1	1:B:615:GLY:N	2.10	1.14
1:B:654:SER:CB	1:B:659:GLU:HG2	1.77	1.14
1:B:707:LEU:HD13	1:B:708:ILE:H	1.08	1.14
1:A:42:ARG:O	1:A:289:ALA:HB3	1.40	1.14
1:A:566:LEU:HD12	1:A:568:LEU:H	1.07	1.14
1:B:46:ALA:HB3	1:B:179:THR:HA	1.30	1.14
1:A:193:SER:HA	1:A:196:ARG:HB2	1.21	1.13
1:A:517:TYR:CE2	1:A:520:TRP:CZ2	2.35	1.13
1:B:404:ILE:CD1	1:B:737:LEU:CD2	2.23	1.13
1:B:506:HIS:CB	1:B:517:TYR:OH	1.96	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:180:TYR:OH	1:A:189:CYS:SG	2.03	1.13
1:A:234:THR:O	1:A:237:PHE:CB	1.97	1.13
1:A:292:ILE:HG22	1:A:295:GLN:HB3	1.19	1.13
1:A:502:VAL:HA	1:A:503:VAL:HG12	1.26	1.13
1:A:654:SER:CA	1:A:655:ARG:HB2	1.77	1.13
1:A:718:ILE:O	1:A:722:ARG:N	1.80	1.13
1:B:126:VAL:CG1	1:B:127:PRO:HD3	1.77	1.13
1:B:214:PHE:HA	1:B:220:LEU:HD22	1.24	1.13
1:B:249:VAL:HG23	1:B:318:ILE:HG22	1.23	1.13
1:A:276:ARG:HA	1:A:278:THR:HG23	1.23	1.13
1:B:16:LEU:HG	1:B:546:LEU:HD11	1.16	1.13
1:B:354:GLN:CB	1:B:528:ILE:CG2	2.20	1.13
1:B:593:TYR:CD2	1:B:726:TRP:CD1	2.35	1.13
1:A:2:PHE:CZ	1:A:486:TYR:CE2	2.37	1.13
1:B:53:LEU:HA	1:B:173:ARG:HA	1.21	1.13
1:B:339:THR:CG2	1:B:492:HIS:O	1.97	1.13
1:A:18:GLN:HA	1:A:21:ALA:HB2	1.28	1.13
1:A:170:TYR:CZ	1:A:576:HIS:NE2	2.17	1.13
1:A:373:PHE:CE2	1:A:387:LEU:HD22	1.84	1.12
1:A:524:THR:CG2	1:A:539:SER:HA	1.79	1.12
1:A:527:ARG:NH2	1:A:528:ILE:HD12	1.62	1.13
1:B:93:HIS:CG	1:B:237:PHE:CD1	2.37	1.12
1:B:348:ALA:O	1:B:354:GLN:O	1.67	1.12
1:B:401:LEU:O	1:B:404:ILE:CB	1.95	1.13
1:B:753:SER:O	1:B:755:ALA:N	1.80	1.13
1:A:101:GLU:HB2	1:A:104:ARG:HD3	1.32	1.12
1:A:106:LEU:HD11	1:A:135:LEU:HD22	1.24	1.12
1:B:377:LYS:HB3	1:B:385:ARG:NH1	0.80	1.12
1:A:176:ARG:HG2	1:A:447:ARG:NH1	1.62	1.12
1:A:177:THR:HG23	1:A:447:ARG:NH2	1.63	1.12
1:B:38:LEU:HG	1:B:501:VAL:HB	1.27	1.12
1:B:226:SER:CA	1:B:229:LEU:CB	2.27	1.12
1:B:401:LEU:CA	1:B:404:ILE:HG13	1.78	1.12
1:B:502:VAL:HG22	1:B:519:VAL:HG22	1.29	1.12
1:A:377:LYS:CB	1:A:385:ARG:HG2	1.80	1.12
1:A:387:LEU:HD12	1:A:572:THR:HG21	1.32	1.12
1:A:636:TRP:CZ2	1:A:640:PHE:CZ	2.38	1.12
1:B:222:PRO:HA	1:B:224:LEU:HG	1.16	1.12
1:B:681:ILE:HG21	1:B:731:VAL:HG11	1.18	1.12
1:A:117:ALA:N	1:A:220:LEU:HD12	1.61	1.11
1:B:45:SER:HB2	1:B:181:PRO:HD3	1.29	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:69:LEU:O	1:B:73:TYR:N	1.83	1.11
1:B:321:PHE:CE1	1:B:322:ILE:O	2.02	1.11
1:B:456:MET:HA	1:B:459:ILE:HD12	1.22	1.11
1:B:519:VAL:HG12	1:B:543:PRO:HB3	1.30	1.11
1:B:526:LEU:HA	1:B:527:ARG:NH1	0.80	1.11
1:B:569:ALA:HA	1:B:572:THR:HB	1.22	1.11
1:A:517:TYR:CE2	1:A:520:TRP:CE2	2.38	1.11
1:B:334:ARG:HD3	1:B:335:PRO:HD3	1.18	1.11
1:B:647:LEU:HD21	1:B:663:ILE:HB	1.12	1.11
1:A:39:GLN:HG2	1:A:499:PRO:HB3	1.25	1.11
1:A:283:GLN:HA	1:A:286:SER:HB3	1.29	1.11
1:A:346:THR:HG21	1:A:359:VAL:N	1.63	1.11
1:A:597:ILE:HD12	1:A:598:ARG:CD	1.79	1.11
1:B:182:ASN:O	1:B:185:ALA:CB	1.98	1.11
1:B:259:ARG:HG3	1:B:269:LEU:HD22	1.20	1.11
1:B:401:LEU:O	1:B:404:ILE:HB	1.51	1.11
1:B:705:ARG:HB2	1:B:708:ILE:HG13	1.23	1.11
1:A:158:LEU:O	1:A:163:PHE:O	1.68	1.11
1:A:496:ALA:O	1:A:497:HIS:HB3	1.31	1.11
1:B:259:ARG:HA	1:B:269:LEU:HD21	1.23	1.11
1:B:401:LEU:HD22	1:B:404:ILE:HD12	1.22	1.11
1:A:4:LEU:HB3	1:A:13:ALA:CB	1.80	1.11
1:A:31:VAL:HG13	1:A:32:GLY:H	0.99	1.11
1:A:86:VAL:HG11	1:A:191:ARG:HG2	1.19	1.11
1:A:199:LEU:O	1:A:202:LEU:N	1.84	1.11
1:A:268:GLU:CD	1:A:269:LEU:N	2.04	1.11
1:A:503:VAL:HG11	1:A:518:LEU:HA	1.25	1.11
1:A:524:THR:HG23	1:A:539:SER:CA	1.80	1.11
1:A:587:PHE:CZ	1:A:621:VAL:HG12	1.75	1.11
1:A:710:ASP:OD2	1:B:620:ARG:NH1	1.82	1.11
1:B:349:ILE:HD13	1:B:353:GLY:HA3	1.28	1.11
1:A:170:TYR:CG	1:A:576:HIS:HE1	1.67	1.10
1:A:462:LEU:HD11	1:A:483:MET:HG3	1.25	1.10
1:A:472:GLU:HB3	1:A:475:ALA:HB2	1.28	1.10
1:B:551:TYR:C	1:B:552:ASN:OD1	1.88	1.10
1:B:580:TRP:CZ2	1:B:581:HIS:ND1	2.18	1.10
1:A:10:ASN:OD1	1:A:14:ARG:CG	1.99	1.10
1:A:36:LEU:HG	1:A:263:PRO:CA	1.81	1.10
1:A:159:SER:HA	1:A:163:PHE:C	1.70	1.10
1:A:744:GLU:HA	1:A:747:THR:CG2	1.81	1.10
1:B:7:LYS:HD2	1:B:531:GLY:HA2	1.16	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:145:LEU:O	1:B:149:ILE:N	1.83	1.10
1:B:614:LEU:CD1	1:B:615:GLY:O	2.00	1.10
1:A:6:VAL:HG23	1:A:434:GLY:HA3	1.27	1.10
1:A:7:LYS:N	1:A:433:ASN:OD1	1.84	1.10
1:A:101:GLU:C	1:A:104:ARG:CD	2.07	1.10
1:A:233:ALA:O	1:A:236:ALA:HB3	1.52	1.10
1:B:54:TRP:HD1	1:B:69:LEU:HD11	1.08	1.10
1:B:416:ASN:ND2	1:B:673:THR:CG2	2.14	1.10
1:B:526:LEU:HD23	1:B:527:ARG:HD2	1.15	1.10
1:A:42:ARG:HH11	1:A:336:ILE:HD11	0.97	1.10
1:A:86:VAL:HB	1:A:191:ARG:HD3	1.15	1.10
1:A:101:GLU:O	1:A:104:ARG:N	1.83	1.10
1:A:232:ALA:HA	1:A:235:THR:HB	1.29	1.10
1:A:250:VAL:O	1:A:252:SER:N	1.85	1.10
1:A:365:GLN:H	1:A:562:GLN:HA	1.10	1.10
1:B:105:LYS:HA	1:B:108:ALA:HB3	1.17	1.10
1:B:361:TYR:HD1	1:B:441:PHE:CE2	1.62	1.10
1:B:616:GLN:C	1:B:618:ARG:HA	1.70	1.10
1:A:259:ARG:HG3	1:A:269:LEU:HD13	1.27	1.10
1:A:352:MET:HB2	1:A:355:PRO:HD2	1.21	1.10
1:A:723:ILE:HG23	1:A:724:ARG:HD3	1.19	1.10
1:B:422:GLU:HG3	1:B:426:GLN:HG3	1.10	1.10
1:A:127:PRO:HG2	1:A:130:ALA:C	1.70	1.09
1:A:361:TYR:CD2	1:A:362:GLU:N	2.18	1.09
1:B:571:HIS:HA	1:B:574:SER:HB2	1.32	1.09
1:A:42:ARG:HG3	1:A:336:ILE:HD11	1.23	1.09
1:A:597:ILE:HD12	1:A:598:ARG:H	1.13	1.09
1:B:321:PHE:HA	1:B:325:MET:HE1	1.10	1.09
1:B:617:ARG:N	1:B:618:ARG:HA	1.67	1.09
1:B:171:VAL:HG11	1:B:577:ILE:HA	1.26	1.09
1:B:275:LEU:HD11	1:B:316:THR:HA	1.25	1.09
1:B:396:ARG:CD	1:B:612:LEU:HD22	1.82	1.09
1:B:522:VAL:HB	1:B:540:ILE:HG13	1.35	1.09
1:B:580:TRP:CZ2	1:B:581:HIS:NE2	2.19	1.09
1:B:593:TYR:CD2	1:B:726:TRP:CG	2.40	1.09
1:B:628:VAL:O	1:B:631:ALA:N	1.85	1.09
1:B:735:MET:HB3	1:B:737:LEU:HD13	1.21	1.09
1:A:268:GLU:CD	1:A:269:LEU:H	1.54	1.09
1:A:430:VAL:HG12	1:A:529:PRO:HB3	1.31	1.09
1:B:89:PHE:HA	1:B:146:PHE:HE2	1.11	1.09
1:B:156:HIS:CE1	1:B:157:VAL:HG22	1.87	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:160:PRO:HG2	1:B:161:LEU:HD22	1.32	1.09
1:B:309:SER:OG	1:B:315:SER:CB	1.99	1.09
1:A:250:VAL:CG1	1:A:253:VAL:CG1	2.06	1.09
1:A:272:SER:N	1:A:276:ARG:CD	2.16	1.09
1:A:298:VAL:HG21	1:A:515:SER:HB3	1.35	1.09
1:A:332:LYS:HE3	1:A:339:THR:HG21	1.13	1.09
1:A:735:MET:SD	1:A:737:LEU:N	2.26	1.09
1:B:366:PHE:HA	1:B:563:ALA:HB2	1.23	1.09
1:B:681:ILE:O	1:B:731:VAL:CG2	2.00	1.09
1:A:127:PRO:CG	1:A:130:ALA:CB	2.31	1.08
1:A:272:SER:H	1:A:276:ARG:HD2	1.13	1.08
1:A:365:GLN:HG2	1:A:367:ALA:H	1.10	1.08
1:A:527:ARG:CZ	1:A:528:ILE:HD12	1.83	1.08
1:A:637:TYR:OH	1:A:745:ALA:HB1	1.47	1.08
1:B:404:ILE:HD13	1:B:737:LEU:HD22	1.11	1.08
1:B:471:LEU:HD11	1:B:479:LEU:HD22	1.28	1.08
1:B:526:LEU:CD2	1:B:527:ARG:HD2	1.82	1.08
1:B:597:ILE:HB	1:B:714:LEU:HD23	1.09	1.08
1:B:702:MET:HG2	1:B:714:LEU:HD12	1.31	1.08
1:A:337:ASN:O	1:A:341:SER:N	1.87	1.08
1:A:352:MET:N	1:A:353:GLY:HA2	1.56	1.08
1:A:715:HIS:CG	1:A:716:VAL:HG13	1.88	1.08
1:B:472:GLU:H	1:B:475:ALA:HB3	1.16	1.08
1:B:560:VAL:HG23	1:B:562:GLN:H	1.14	1.08
1:B:698:ILE:O	1:B:702:MET:N	1.85	1.08
1:A:213:THR:HB	1:A:215:LYS:HD3	1.25	1.08
1:A:250:VAL:CA	1:A:253:VAL:CG1	2.32	1.08
1:A:356:SER:H	1:A:437:MET:HE1	1.18	1.08
1:A:384:GLN:HB3	1:A:578:TRP:HE1	1.10	1.08
1:B:245:ASP:CG	1:B:248:ALA:N	2.05	1.08
1:B:587:PHE:HA	1:B:622:ARG:HD3	1.26	1.08
1:B:597:ILE:C	1:B:599:ASN:N	1.94	1.08
1:B:642:GLU:HG3	1:B:645:ARG:HH22	1.08	1.08
1:B:654:SER:HB2	1:B:659:GLU:HG2	1.32	1.08
1:A:36:LEU:CG	1:A:263:PRO:HA	1.84	1.08
1:A:364:TRP:CZ2	1:A:442:PRO:HG3	1.88	1.08
1:B:93:HIS:CB	1:B:237:PHE:HE1	1.58	1.08
1:B:105:LYS:O	1:B:109:TYR:N	1.85	1.08
1:B:199:LEU:O	1:B:202:LEU:HB2	1.53	1.08
1:A:82:VAL:CA	1:A:85:LEU:HG	1.83	1.08
1:A:176:ARG:NH1	1:A:446:GLU:C	1.86	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:19:ALA:CB	1:B:24:GLU:HB3	1.83	1.08
1:B:244:PHE:CZ	1:B:318:ILE:HA	1.89	1.08
1:B:308:PHE:HE2	1:B:318:ILE:HG12	0.93	1.08
1:B:102:ILE:HB	1:B:135:LEU:HD11	1.20	1.07
1:B:123:VAL:HA	1:B:164:ILE:HG21	1.27	1.07
1:B:501:VAL:HG12	1:B:502:VAL:H	1.17	1.07
1:B:535:ILE:HG23	1:B:537:GLY:H	1.11	1.07
1:A:135:LEU:HD12	1:A:151:THR:HG22	1.34	1.07
1:A:250:VAL:HA	1:A:253:VAL:CG1	1.83	1.07
1:A:521:ASN:HD22	1:A:539:SER:HB3	1.17	1.07
1:A:547:GLU:O	1:A:551:TYR:N	1.86	1.07
1:A:597:ILE:HD12	1:A:598:ARG:HD2	1.34	1.07
1:B:101:GLU:O	1:B:105:LYS:N	1.86	1.07
1:B:182:ASN:CB	1:B:484:PHE:CZ	2.38	1.07
1:A:501:VAL:HB	1:A:518:LEU:HD12	1.30	1.07
1:A:587:PHE:CZ	1:A:621:VAL:CB	2.21	1.07
1:B:7:LYS:NZ	1:B:531:GLY:O	1.87	1.07
1:B:118:ILE:H	1:B:222:PRO:HG3	1.17	1.07
1:B:143:HIS:HB3	1:B:145:LEU:HD11	1.11	1.07
1:B:314:SER:OG	1:B:317:ILE:N	1.88	1.07
1:B:376:VAL:HG12	1:B:378:LEU:HD21	1.07	1.07
1:A:51:GLU:O	1:A:52:LEU:N	1.87	1.07
1:A:89:PHE:CE2	1:A:146:PHE:HD2	1.72	1.07
1:A:131:ILE:O	1:A:134:GLN:N	1.88	1.07
1:A:404:ILE:HD11	1:A:681:ILE:HG23	1.29	1.07
1:A:517:TYR:CE2	1:A:520:TRP:CE3	2.35	1.07
1:A:740:ARG:N	1:A:742:GLU:OE1	1.85	1.07
1:B:472:GLU:O	1:B:476:SER:N	1.87	1.07
1:B:604:ALA:HB2	1:B:698:ILE:HG23	1.37	1.07
1:B:643:ASP:OD2	1:B:666:ARG:HG2	1.48	1.07
1:B:719:ASN:O	1:B:722:ARG:N	1.87	1.07
1:B:729:LEU:HA	1:B:732:LEU:HD13	1.30	1.07
1:A:23:GLY:O	1:A:26:LYS:NZ	1.87	1.07
1:A:127:PRO:CG	1:A:130:ALA:CA	2.32	1.07
1:A:143:HIS:HB2	1:A:145:LEU:HD11	1.36	1.07
1:A:257:LEU:HB3	1:A:261:TRP:CZ3	1.90	1.07
1:A:404:ILE:CD1	1:A:681:ILE:CG2	2.32	1.07
1:A:527:ARG:NH2	1:A:528:ILE:CD1	2.18	1.07
1:A:744:GLU:CA	1:A:747:THR:HG22	1.84	1.07
1:B:404:ILE:CG2	1:B:737:LEU:HD21	1.69	1.07
1:B:424:VAL:HG23	1:B:430:VAL:HG13	1.30	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:597:ILE:HD12	1:B:713:ASP:CG	1.74	1.07
1:B:699:VAL:O	1:B:703:ALA:N	1.88	1.07
1:A:5:LYS:O	1:A:9:LEU:N	1.88	1.06
1:A:60:ASN:HA	1:A:156:HIS:CG	1.89	1.06
1:A:250:VAL:HA	1:A:253:VAL:HG12	1.07	1.06
1:A:377:LYS:HB2	1:A:385:ARG:CG	1.85	1.06
1:B:69:LEU:HA	1:B:72:GLN:HB3	1.08	1.06
1:B:132:LEU:HD22	1:B:151:THR:HG23	1.13	1.06
1:B:190:VAL:HG13	1:B:323:GLU:CG	1.84	1.06
1:B:340:THR:O	1:B:342:TYR:CZ	2.08	1.06
1:B:514:GLY:O	1:B:516:LEU:CD1	2.03	1.06
1:B:526:LEU:CD2	1:B:527:ARG:N	2.07	1.06
1:B:597:ILE:CD1	1:B:713:ASP:OD2	2.02	1.06
1:A:82:VAL:HA	1:A:85:LEU:HG	1.08	1.06
1:A:591:ASP:H	1:A:606:VAL:HG12	1.17	1.06
1:A:653:THR:O	1:A:655:ARG:CB	2.03	1.06
1:A:748:LYS:NZ	1:A:752:ASP:OD1	1.87	1.06
1:B:49:THR:HG23	1:B:176:ARG:HG3	1.27	1.06
1:B:257:LEU:HD22	1:B:290:LEU:HG	1.33	1.06
1:B:308:PHE:CZ	1:B:318:ILE:HD13	1.90	1.06
1:B:348:ALA:HB3	1:B:355:PRO:HA	1.07	1.06
1:B:425:SER:HB3	1:B:429:THR:HG23	1.32	1.06
1:A:18:GLN:HG2	1:A:491:MET:HE1	1.35	1.06
1:A:22:ILE:HA	1:A:299:LYS:HD3	1.37	1.06
1:A:82:VAL:CA	1:A:85:LEU:CD2	2.33	1.06
1:A:257:LEU:HD22	1:A:261:TRP:CZ2	1.90	1.06
1:A:595:VAL:HG11	1:A:698:ILE:HD12	1.36	1.06
1:A:605:GLU:N	1:A:605:GLU:OE1	1.88	1.06
1:A:715:HIS:HE2	1:B:376:VAL:HG12	1.15	1.06
1:A:716:VAL:C	1:A:720:ARG:HB2	1.75	1.06
1:B:102:ILE:O	1:B:106:LEU:N	1.87	1.06
1:B:199:LEU:O	1:B:202:LEU:CB	2.04	1.06
1:B:288:LEU:CD2	1:B:292:ILE:HD11	1.85	1.06
1:B:506:HIS:HB3	1:B:517:TYR:HE1	0.92	1.06
1:B:577:ILE:CD1	1:B:578:TRP:N	2.18	1.06
1:B:597:ILE:C	1:B:599:ASN:H	1.40	1.06
1:B:696:SER:HA	1:B:699:VAL:HG23	1.37	1.06
1:A:62:ASP:HB3	1:A:66:TYR:CZ	1.89	1.06
1:A:170:TYR:CG	1:A:576:HIS:CE1	2.42	1.06
1:A:292:ILE:CG2	1:A:295:GLN:HG2	1.85	1.06
1:A:566:LEU:HD11	1:A:568:LEU:CD1	1.86	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:735:MET:SD	1:A:736:GLY:N	2.28	1.06
1:B:284:LEU:HD21	1:B:290:LEU:HD23	1.34	1.06
1:B:591:ASP:OD2	1:B:740:ARG:NH1	1.88	1.06
1:A:101:GLU:HA	1:A:104:ARG:CD	1.80	1.06
1:A:666:ARG:HA	1:A:669:GLN:OE1	1.55	1.06
1:B:384:GLN:NE2	1:B:576:HIS:HA	1.71	1.06
1:B:403:PRO:O	1:B:406:ASN:HB2	1.55	1.06
1:B:647:LEU:HD23	1:B:663:ILE:HB	1.30	1.06
1:B:719:ASN:OD1	1:B:720:ARG:NE	1.89	1.06
1:A:86:VAL:CG1	1:A:191:ARG:HG2	1.85	1.05
1:A:170:TYR:CE2	1:A:576:HIS:NE2	2.24	1.05
1:A:374:THR:HG23	1:A:390:GLU:HG3	1.38	1.05
1:A:408:PHE:CG	1:A:636:TRP:CD1	2.43	1.05
1:A:598:ARG:H	1:A:598:ARG:HD2	1.11	1.05
1:A:644:ASP:OD1	1:A:645:ARG:NH1	1.89	1.05
1:B:53:LEU:HD21	1:B:571:HIS:ND1	1.69	1.05
1:B:156:HIS:NE2	1:B:210:LEU:CD2	2.19	1.05
1:B:358:VAL:HG11	1:B:438:THR:H	1.15	1.05
1:B:361:TYR:CE1	1:B:441:PHE:HE2	1.73	1.05
1:B:493:TYR:CE1	1:B:497:HIS:CE1	2.44	1.05
1:B:686:ILE:O	1:B:689:SER:N	1.87	1.05
1:B:732:LEU:HD23	1:B:733:GLN:HB2	1.32	1.05
1:A:106:LEU:CD2	1:A:135:LEU:CD2	2.34	1.05
1:A:265:THR:HG23	1:A:267:LYS:HG3	1.37	1.05
1:A:293:ALA:O	1:A:297:MET:N	1.88	1.05
1:B:19:ALA:HB1	1:B:24:GLU:CB	1.85	1.05
1:B:83:ASP:OD2	1:B:191:ARG:NH1	1.87	1.05
1:B:83:ASP:HA	1:B:191:ARG:HG2	1.38	1.05
1:B:260:LEU:CD1	1:B:261:TRP:NE1	2.20	1.05
1:B:602:TYR:CG	1:B:701:GLN:HB3	1.91	1.05
1:B:611:LEU:HD11	1:B:689:SER:OG	1.55	1.05
1:A:42:ARG:CA	1:A:289:ALA:HB3	1.75	1.05
1:A:292:ILE:O	1:A:296:ASP:N	1.88	1.05
1:A:444:VAL:O	1:A:445:VAL:C	1.85	1.05
1:A:472:GLU:O	1:A:477:ASN:ND2	1.88	1.05
1:A:661:LEU:HD22	1:A:661:LEU:H	1.18	1.05
1:B:67:ALA:O	1:B:71:PHE:N	1.87	1.05
1:B:68:ARG:O	1:B:72:GLN:N	1.87	1.05
1:B:74:ALA:O	1:B:77:GLY:N	1.89	1.05
1:A:359:VAL:HA	1:A:438:THR:CA	1.84	1.05
1:A:361:TYR:CE1	1:A:414:VAL:HG21	1.91	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:204:SER:O	1:B:208:LYS:HB2	1.56	1.05
1:B:308:PHE:CE2	1:B:318:ILE:HG12	1.84	1.05
1:B:321:PHE:CD1	1:B:322:ILE:N	2.25	1.05
1:B:341:SER:O	1:B:342:TYR:CD2	2.10	1.05
1:B:371:THR:C	1:B:623:ILE:HG12	1.76	1.05
1:B:404:ILE:HG23	1:B:737:LEU:HD23	1.37	1.05
1:A:289:ALA:O	1:A:291:PHE:N	1.88	1.05
1:B:504:SER:HB3	1:B:517:TYR:CD2	1.92	1.05
1:B:699:VAL:HA	1:B:702:MET:HB2	1.38	1.05
1:A:9:LEU:CD2	1:A:10:ASN:H	1.69	1.04
1:A:73:TYR:OH	1:A:143:HIS:HB3	1.56	1.04
1:A:177:THR:CA	1:A:447:ARG:HH22	1.70	1.04
1:A:265:THR:OG1	1:A:267:LYS:N	1.89	1.04
1:B:92:TYR:CD2	1:B:146:PHE:CG	2.44	1.04
1:B:94:GLN:HB2	1:B:237:PHE:HZ	1.12	1.04
1:B:126:VAL:H	1:B:127:PRO:CD	1.67	1.04
1:B:205:VAL:HG11	1:B:232:ALA:HB3	1.35	1.04
1:A:292:ILE:HG23	1:A:295:GLN:CB	1.84	1.04
1:A:338:GLU:O	1:A:341:SER:N	1.90	1.04
1:A:344:GLY:O	1:A:360:VAL:HB	0.87	1.04
1:B:471:LEU:HD12	1:B:476:SER:HA	1.38	1.04
1:A:10:ASN:OD1	1:A:14:ARG:HG3	1.57	1.04
1:A:197:ARG:O	1:A:199:LEU:N	1.72	1.04
1:A:337:ASN:HA	1:A:340:THR:HG23	1.34	1.04
1:A:365:GLN:NE2	1:A:367:ALA:O	1.88	1.04
1:A:387:LEU:HD11	1:A:577:ILE:HG12	1.06	1.04
1:A:445:VAL:HG13	1:A:456:MET:HB3	1.10	1.04
1:B:401:LEU:O	1:B:404:ILE:CA	2.04	1.04
1:A:250:VAL:O	1:A:253:VAL:N	1.90	1.04
1:A:36:LEU:CB	1:A:263:PRO:HA	1.87	1.04
1:A:187:VAL:CG1	1:A:247:ASN:N	2.20	1.04
1:A:275:LEU:HB3	1:A:276:ARG:HD3	1.07	1.04
1:A:448:ASP:O	1:A:453:ARG:N	1.89	1.04
1:B:126:VAL:HG12	1:B:127:PRO:HD3	1.36	1.04
1:B:540:ILE:HG22	1:B:542:THR:HG22	1.39	1.04
1:B:542:THR:HG21	1:B:547:GLU:HB3	1.38	1.04
1:B:614:LEU:CD1	1:B:615:GLY:H	1.68	1.04
1:A:42:ARG:C	1:A:289:ALA:HB3	1.68	1.03
1:A:408:PHE:CD2	1:A:636:TRP:CD1	2.46	1.03
1:A:739:SER:O	1:A:740:ARG:HB2	1.53	1.03
1:B:3:ASN:HB2	1:B:436:GLU:CG	1.88	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:107:THR:HA	1:B:110:ILE:HD12	1.38	1.03
1:B:163:PHE:HB3	1:B:164:ILE:CG2	1.88	1.03
1:A:268:GLU:OE2	1:A:269:LEU:CD1	2.07	1.03
1:A:349:ILE:HG21	1:A:354:GLN:HA	1.38	1.03
1:A:393:ILE:HG22	1:A:612:LEU:HD11	1.40	1.03
1:A:408:PHE:CZ	1:A:636:TRP:CE2	2.40	1.03
1:B:158:LEU:HD12	1:B:210:LEU:HB3	1.39	1.03
1:B:350:ASP:HA	1:B:427:ARG:O	1.52	1.03
1:A:127:PRO:C	1:A:166:PRO:CB	2.27	1.03
1:A:147:HIS:O	1:A:151:THR:HG23	1.58	1.03
1:A:148:HIS:CE1	1:A:578:TRP:CH2	2.45	1.03
1:A:735:MET:CE	1:A:737:LEU:HB2	1.89	1.03
1:B:3:ASN:HB2	1:B:436:GLU:HG2	1.05	1.03
1:B:521:ASN:HB2	1:B:541:ARG:HD3	1.37	1.03
1:B:696:SER:HA	1:B:699:VAL:CG2	1.89	1.03
1:A:60:ASN:HA	1:A:156:HIS:ND1	1.67	1.03
1:A:387:LEU:CD1	1:A:577:ILE:HG12	1.89	1.03
1:B:93:HIS:C	1:B:237:PHE:CD1	2.32	1.03
1:B:156:HIS:HD2	1:B:158:LEU:N	1.41	1.03
1:B:321:PHE:HA	1:B:325:MET:CE	1.88	1.03
1:B:643:ASP:OD2	1:B:666:ARG:HG3	1.58	1.03
1:A:44:PHE:CZ	1:A:290:LEU:HD23	1.93	1.03
1:A:259:ARG:CG	1:A:269:LEU:HD13	1.89	1.03
1:A:566:LEU:CD1	1:A:568:LEU:CG	2.30	1.03
1:A:72:GLN:NE2	1:A:173:ARG:O	1.92	1.02
1:A:101:GLU:CB	1:A:104:ARG:HD3	1.89	1.02
1:A:338:GLU:HA	1:A:341:SER:HB2	1.40	1.02
1:A:566:LEU:HD11	1:A:568:LEU:HG	1.04	1.02
1:A:572:THR:O	1:A:575:ILE:N	1.92	1.02
1:A:739:SER:O	1:A:740:ARG:CB	2.04	1.02
1:B:4:LEU:HB3	1:B:5:LYS:HB2	1.36	1.02
1:B:40:PHE:CE2	1:B:495:VAL:HG12	1.94	1.02
1:B:436:GLU:OE1	1:B:666:ARG:NH2	1.92	1.02
1:B:597:ILE:HB	1:B:714:LEU:CD2	1.89	1.02
1:A:144:GLU:CB	1:A:147:HIS:HB2	1.88	1.02
1:A:566:LEU:HD12	1:A:568:LEU:N	1.75	1.02
1:A:593:TYR:N	1:A:604:ALA:O	1.90	1.02
1:A:630:HIS:HB2	1:A:737:LEU:HG	1.26	1.02
1:B:598:ARG:NH2	1:B:710:ASP:OD1	1.92	1.02
1:B:623:ILE:HG23	1:B:625:LYS:HG3	1.38	1.02
1:B:654:SER:HB2	1:B:659:GLU:CG	1.88	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:702:MET:SD	1:B:714:LEU:CD1	2.46	1.02
1:A:476:SER:HA	1:A:479:LEU:HD13	1.42	1.02
1:A:715:HIS:CD2	1:B:376:VAL:CG1	2.40	1.02
1:B:128:PRO:HA	1:B:131:ILE:CB	1.87	1.02
1:B:345:GLN:HB3	1:B:554:PRO:HA	1.38	1.02
1:A:106:LEU:HD21	1:A:135:LEU:HD23	1.07	1.02
1:A:177:THR:HA	1:A:447:ARG:CZ	1.88	1.02
1:A:435:ALA:HB3	1:A:437:MET:HG3	1.05	1.02
1:A:492:HIS:HA	1:A:495:VAL:HG23	1.40	1.02
1:B:9:LEU:H	1:B:9:LEU:HD12	1.22	1.02
1:B:80:LEU:HD11	1:B:84:GLU:HG3	1.40	1.02
1:B:312:GLU:O	1:B:316:THR:N	1.91	1.02
1:B:376:VAL:HG22	1:B:386:PHE:O	1.21	1.02
1:B:493:TYR:HE1	1:B:497:HIS:CE1	1.77	1.02
1:A:22:ILE:CA	1:A:299:LYS:HD3	1.89	1.02
1:A:44:PHE:HB2	1:A:333:LEU:CA	1.89	1.02
1:A:127:PRO:CG	1:A:130:ALA:HB3	1.89	1.02
1:A:337:ASN:HA	1:A:340:THR:CG2	1.90	1.02
1:A:353:GLY:N	1:A:354:GLN:OE1	1.92	1.02
1:B:54:TRP:CE3	1:B:54:TRP:HA	1.93	1.02
1:B:182:ASN:CB	1:B:484:PHE:CE1	2.43	1.02
1:B:275:LEU:HD11	1:B:316:THR:CA	1.89	1.02
1:B:298:VAL:O	1:B:302:GLY:N	1.92	1.02
1:A:177:THR:CA	1:A:447:ARG:NH2	2.22	1.01
1:A:195:LEU:CD2	1:A:199:LEU:CG	2.38	1.01
1:A:257:LEU:HD22	1:A:288:LEU:HD12	1.40	1.01
1:A:272:SER:N	1:A:276:ARG:NE	2.07	1.01
1:A:346:THR:HG21	1:A:359:VAL:CA	1.90	1.01
1:A:502:VAL:HA	1:A:503:VAL:CG1	1.89	1.01
1:B:14:ARG:HB2	1:B:465:GLY:HA2	1.37	1.01
1:B:71:PHE:CD2	1:B:329:SER:HA	1.94	1.01
1:B:141:SER:HB2	1:B:147:HIS:HB2	1.41	1.01
1:A:116:ARG:CG	1:A:222:PRO:O	2.06	1.01
1:A:144:GLU:HB2	1:A:147:HIS:CB	1.88	1.01
1:A:292:ILE:HG22	1:A:295:GLN:CB	1.88	1.01
1:A:524:THR:HG23	1:A:539:SER:HA	1.02	1.01
1:B:43:THR:HG22	1:B:289:ALA:CB	1.90	1.01
1:B:89:PHE:HA	1:B:146:PHE:CE2	1.95	1.01
1:B:334:ARG:HD3	1:B:335:PRO:CD	1.89	1.01
1:B:372:ALA:O	1:B:373:PHE:CD1	2.14	1.01
1:B:597:ILE:HG13	1:B:714:LEU:HA	1.38	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:610:GLU:HG2	1:B:614:LEU:O	1.61	1.01
1:A:6:VAL:HG12	1:A:531:GLY:HA2	1.43	1.01
1:A:133:GLU:OE1	1:A:136:ARG:HG2	1.58	1.01
1:A:276:ARG:HA	1:A:278:THR:CG2	1.91	1.01
1:A:492:HIS:HA	1:A:495:VAL:CG2	1.91	1.01
1:A:523:ARG:CD	1:A:524:THR:N	2.22	1.01
1:A:527:ARG:HH11	1:A:527:ARG:HA	1.25	1.01
1:B:314:SER:HB2	1:B:317:ILE:HB	1.42	1.01
1:A:179:THR:O	1:A:332:LYS:NZ	1.94	1.01
1:A:193:SER:CA	1:A:196:ARG:HB2	1.89	1.01
1:A:195:LEU:HD23	1:A:199:LEU:HG	1.39	1.01
1:A:441:PHE:HB3	1:A:443:SER:OG	1.61	1.01
1:B:56:VAL:HB	1:B:148:HIS:CE1	1.96	1.01
1:B:61:ILE:HG22	1:B:62:ASP:H	1.23	1.01
1:B:94:GLN:CB	1:B:237:PHE:CZ	2.41	1.01
1:B:153:PHE:CZ	1:B:202:LEU:HB3	1.95	1.01
1:B:317:ILE:O	1:B:320:TRP:N	1.93	1.01
1:B:451:LEU:HG	1:B:453:ARG:CZ	1.90	1.01
1:B:753:SER:O	1:B:754:ASN:C	1.94	1.01
1:A:40:PHE:CE1	1:A:289:ALA:HB1	1.93	1.01
1:A:257:LEU:HD13	1:A:261:TRP:HH2	1.23	1.01
1:A:352:MET:HB2	1:A:355:PRO:CD	1.91	1.01
1:A:739:SER:N	1:A:742:GLU:OE2	1.85	1.01
1:B:345:GLN:CB	1:B:554:PRO:HA	1.91	1.01
1:B:415:LYS:HZ1	1:B:419:ALA:HB2	1.24	1.01
1:A:178:ALA:CB	1:A:485:ASN:OD1	2.08	1.00
1:A:250:VAL:O	1:A:251:SER:C	1.95	1.00
1:A:259:ARG:O	1:A:262:SER:OG	1.77	1.00
1:A:444:VAL:O	1:A:446:GLU:N	1.93	1.00
1:B:25:LEU:O	1:B:27:ASN:ND2	1.94	1.00
1:B:143:HIS:CB	1:B:145:LEU:HD11	1.72	1.00
1:B:183:PHE:CE1	1:B:250:VAL:HG12	1.96	1.00
1:B:346:THR:HG23	1:B:359:VAL:HG11	1.01	1.00
1:B:570:ASN:HD22	1:B:571:HIS:HD2	1.08	1.00
1:A:73:TYR:CE2	1:A:143:HIS:HB3	1.94	1.00
1:A:597:ILE:CD1	1:A:598:ARG:HD3	1.91	1.00
1:A:653:THR:C	1:A:655:ARG:CB	2.27	1.00
1:B:45:SER:CB	1:B:181:PRO:HD3	1.92	1.00
1:B:128:PRO:HA	1:B:131:ILE:HB	1.43	1.00
1:B:200:THR:O	1:B:204:SER:N	1.94	1.00
1:B:368:LYS:H	1:B:368:LYS:HD2	1.26	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:415:LYS:NZ	1:B:419:ALA:HB2	1.75	1.00
1:B:445:VAL:HG11	1:B:635:MET:SD	2.02	1.00
1:B:637:TYR:HA	1:B:640:PHE:CD2	1.96	1.00
1:A:159:SER:HB2	1:A:164:ILE:HA	1.40	1.00
1:A:187:VAL:HG11	1:A:247:ASN:CA	1.91	1.00
1:A:234:THR:C	1:A:237:PHE:HB3	1.79	1.00
1:A:448:ASP:HB2	1:A:455:PRO:HD3	1.41	1.00
1:A:524:THR:HG21	1:A:540:ILE:HG12	1.43	1.00
1:A:744:GLU:OE1	1:A:747:THR:CG2	2.09	1.00
1:B:181:PRO:HB3	1:B:331:PHE:CE2	1.96	1.00
1:B:384:GLN:HE22	1:B:576:HIS:HA	1.21	1.00
1:B:571:HIS:O	1:B:574:SER:N	1.93	1.00
1:A:48:MET:N	1:A:48:MET:SD	2.34	1.00
1:A:61:ILE:CB	1:A:156:HIS:CD2	2.44	1.00
1:A:393:ILE:HG22	1:A:612:LEU:CD1	1.92	1.00
1:A:404:ILE:HD12	1:A:681:ILE:HG23	1.41	1.00
1:B:53:LEU:HD11	1:B:571:HIS:ND1	1.77	1.00
1:B:341:SER:O	1:B:342:TYR:CG	2.14	1.00
1:A:101:GLU:C	1:A:103:TRP:H	1.39	1.00
1:B:94:GLN:CB	1:B:237:PHE:HZ	1.71	1.00
1:B:376:VAL:HG12	1:B:378:LEU:CD2	1.91	1.00
1:B:472:GLU:N	1:B:475:ALA:HB3	1.76	1.00
1:A:36:LEU:H	1:A:263:PRO:HB3	0.86	1.00
1:B:245:ASP:HB3	1:B:248:ALA:HB3	1.42	1.00
1:B:448:ASP:O	1:B:451:LEU:N	1.93	1.00
1:B:530:VAL:O	1:B:533:ASN:ND2	1.93	1.00
1:A:44:PHE:HB2	1:A:333:LEU:HA	1.02	1.00
1:A:75:GLN:OE1	1:A:177:THR:OG1	1.77	1.00
1:A:557:PRO:HB2	1:A:558:SER:O	1.61	1.00
1:B:44:PHE:CE1	1:B:333:LEU:HD22	1.97	1.00
1:B:740:ARG:HG3	1:B:741:SER:H	1.25	1.00
1:B:343:ILE:O	1:B:555:ILE:HG13	1.60	0.99
1:B:424:VAL:O	1:B:430:VAL:CA	2.10	0.99
1:A:177:THR:CB	1:A:447:ARG:NH2	2.24	0.99
1:A:597:ILE:HD12	1:A:598:ARG:N	1.76	0.99
1:B:43:THR:HG22	1:B:289:ALA:HB3	1.43	0.99
1:B:346:THR:HG23	1:B:359:VAL:CG1	1.92	0.99
1:B:407:THR:HG23	1:B:408:PHE:HD2	1.22	0.99
1:B:467:VAL:HG21	1:B:479:LEU:CD1	1.92	0.99
1:B:540:ILE:CD1	1:B:551:TYR:HB2	1.92	0.99
1:A:59:GLY:HA3	1:A:155:CYS:HB3	1.43	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:178:ALA:HB1	1:A:485:ASN:CG	1.82	0.99
1:A:332:LYS:CE	1:A:339:THR:HG21	1.92	0.99
1:A:384:GLN:HB3	1:A:578:TRP:NE1	1.77	0.99
1:A:630:HIS:HB2	1:A:737:LEU:HD21	1.41	0.99
1:B:54:TRP:CD1	1:B:69:LEU:HD11	1.97	0.99
1:A:678:ILE:HG21	1:A:725:ILE:HD13	1.44	0.99
1:B:144:GLU:OE1	1:B:145:LEU:N	1.96	0.99
1:A:86:VAL:CB	1:A:191:ARG:CD	2.41	0.99
1:A:128:PRO:HD3	1:A:166:PRO:HB2	1.43	0.99
1:A:523:ARG:NE	1:A:524:THR:O	1.94	0.99
1:B:18:GLN:HG3	1:B:487:TYR:OH	1.59	0.99
1:B:125:LYS:H	1:B:165:LEU:CD1	1.75	0.99
1:B:408:PHE:HD1	1:B:636:TRP:CD1	1.63	0.99
1:A:24:GLU:HG3	1:A:26:LYS:CB	1.92	0.99
1:B:46:ALA:HB3	1:B:179:THR:CA	1.91	0.99
1:B:467:VAL:CG2	1:B:479:LEU:CD1	2.40	0.99
1:A:9:LEU:HD23	1:A:10:ASN:H	0.87	0.99
1:A:22:ILE:HG22	1:A:23:GLY:H	1.24	0.99
1:A:254:LEU:HD13	1:A:293:ALA:HB1	1.40	0.99
1:B:37:PRO:C	1:B:38:LEU:HD13	1.83	0.99
1:B:80:LEU:CD1	1:B:84:GLU:HG3	1.92	0.99
1:B:93:HIS:CB	1:B:237:PHE:CD1	2.45	0.99
1:B:281:ILE:HB	1:B:284:LEU:HD22	1.43	0.99
1:B:346:THR:CG2	1:B:359:VAL:HG11	1.91	0.99
1:B:348:ALA:HB3	1:B:355:PRO:CA	1.91	0.99
1:B:642:GLU:CB	1:B:645:ARG:NH1	2.10	0.99
1:A:196:ARG:HD2	1:A:328:VAL:HG13	1.40	0.99
1:A:346:THR:CG2	1:A:359:VAL:N	2.25	0.99
1:A:653:THR:O	1:A:655:ARG:HB2	1.62	0.99
1:B:19:ALA:O	1:B:23:GLY:N	1.95	0.99
1:B:54:TRP:CD1	1:B:69:LEU:HD21	1.98	0.99
1:B:740:ARG:CG	1:B:741:SER:H	1.73	0.99
1:A:31:VAL:HG13	1:A:32:GLY:N	1.78	0.99
1:A:417:ARG:HA	1:A:643:ASP:OD2	1.63	0.99
1:B:348:ALA:N	1:B:355:PRO:HB3	1.78	0.99
1:B:552:ASN:HA	1:B:553:LYS:HE2	1.43	0.99
1:B:570:ASN:ND2	1:B:571:HIS:HD2	1.60	0.99
1:B:607:LYS:HB3	1:B:608:GLU:HB3	1.42	0.99
1:A:44:PHE:CB	1:A:333:LEU:HA	1.92	0.98
1:A:136:ARG:CB	1:A:147:HIS:NE2	2.25	0.98
1:A:282:ASP:O	1:A:285:ARG:HB3	1.63	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:360:VAL:N	1:A:438:THR:O	1.96	0.98
1:A:521:ASN:ND2	1:A:539:SER:HB3	1.76	0.98
1:B:19:ALA:HA	1:B:22:ILE:HB	1.42	0.98
1:B:184:TYR:HA	1:B:187:VAL:HG22	1.45	0.98
1:B:332:LYS:HD2	1:B:334:ARG:HH21	1.28	0.98
1:B:361:TYR:CD2	1:B:414:VAL:HG11	1.98	0.98
1:A:346:THR:CG2	1:A:358:VAL:C	2.31	0.98
1:A:435:ALA:CB	1:A:437:MET:HG3	1.92	0.98
1:B:7:LYS:HD2	1:B:531:GLY:CA	1.92	0.98
1:B:416:ASN:HD21	1:B:673:THR:CG2	1.74	0.98
1:B:519:VAL:HG12	1:B:543:PRO:CB	1.93	0.98
1:A:292:ILE:CG2	1:A:295:GLN:CG	2.40	0.98
1:B:602:TYR:HB3	1:B:701:GLN:CG	1.94	0.98
1:A:215:LYS:O	1:A:215:LYS:NZ	1.95	0.98
1:A:234:THR:HA	1:A:237:PHE:CB	1.91	0.98
1:A:555:ILE:HG12	1:A:556:GLN:H	1.22	0.98
1:B:310:ASP:O	1:B:315:SER:N	1.97	0.98
1:B:416:ASN:HD22	1:B:673:THR:HG21	1.20	0.98
1:B:580:TRP:CH2	1:B:583:ALA:HB2	1.97	0.98
1:A:435:ALA:HB3	1:A:437:MET:CG	1.93	0.98
1:A:553:LYS:HG3	1:A:554:PRO:HD2	1.45	0.98
1:A:609:PHE:O	1:A:613:GLY:N	1.95	0.98
1:A:136:ARG:HB2	1:A:147:HIS:CD2	1.98	0.98
1:A:332:LYS:HE3	1:A:339:THR:CG2	1.93	0.98
1:A:517:TYR:CD2	1:A:520:TRP:CH2	2.50	0.98
1:B:54:TRP:N	1:B:172:TYR:C	2.15	0.98
1:B:67:ALA:HA	1:B:70:PHE:HB2	1.42	0.98
1:B:123:VAL:HA	1:B:164:ILE:CG2	1.93	0.98
1:B:376:VAL:N	1:B:386:PHE:O	1.97	0.98
1:B:674:LEU:HD12	1:B:749:VAL:HG11	1.46	0.98
1:A:60:ASN:C	1:A:156:HIS:CD2	2.11	0.98
1:A:187:VAL:CG1	1:A:247:ASN:CA	2.41	0.98
1:B:216:ALA:HA	1:B:217:LYS:HG3	1.43	0.98
1:B:236:ALA:HA	1:B:239:ARG:CG	1.94	0.98
1:B:245:ASP:HB3	1:B:248:ALA:HB2	1.43	0.98
1:B:274:ARG:HH11	1:B:274:ARG:H	1.00	0.98
1:B:401:LEU:CD2	1:B:404:ILE:HD12	1.93	0.98
1:B:504:SER:N	1:B:517:TYR:O	1.95	0.98
1:B:642:GLU:HB2	1:B:645:ARG:HH12	1.27	0.98
1:A:177:THR:CG2	1:A:447:ARG:NH2	2.27	0.98
1:B:72:GLN:O	1:B:76:ALA:N	1.96	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:97:ALA:HA	1:B:234:THR:HG21	1.43	0.98
1:B:132:LEU:HD22	1:B:151:THR:CG2	1.94	0.98
1:B:133:GLU:OE1	1:B:147:HIS:NE2	1.95	0.98
1:B:580:TRP:CE2	1:B:581:HIS:CG	2.51	0.98
1:B:642:GLU:CA	1:B:645:ARG:HH12	1.52	0.98
1:B:647:LEU:HD21	1:B:663:ILE:CB	1.92	0.98
1:A:346:THR:CG2	1:A:359:VAL:CA	2.41	0.98
1:A:630:HIS:HB2	1:A:737:LEU:CD1	1.92	0.98
1:B:37:PRO:HG2	1:B:261:TRP:HZ3	1.26	0.98
1:B:38:LEU:CG	1:B:501:VAL:HB	1.93	0.98
1:B:245:ASP:CB	1:B:248:ALA:HB2	1.94	0.98
1:B:254:LEU:HD21	1:B:297:MET:HB3	1.44	0.98
1:B:378:LEU:HD12	1:B:379:ALA:H	1.26	0.98
1:B:471:LEU:HB2	1:B:476:SER:CA	1.93	0.98
1:B:642:GLU:CG	1:B:645:ARG:NH2	2.27	0.98
1:A:496:ALA:O	1:A:497:HIS:CB	2.09	0.97
1:A:523:ARG:HD3	1:A:524:THR:C	1.83	0.97
1:B:153:PHE:O	1:B:156:HIS:N	1.96	0.97
1:B:294:TYR:CE2	1:B:516:LEU:HD21	1.98	0.97
1:B:317:ILE:HA	1:B:320:TRP:CD1	1.99	0.97
1:B:342:TYR:HD2	1:B:559:GLU:HG2	1.26	0.97
1:A:346:THR:CG2	1:A:438:THR:OG1	2.12	0.97
1:A:347:SER:CB	1:A:554:PRO:HB3	1.93	0.97
1:B:497:HIS:HB3	1:B:549:ILE:HD13	1.42	0.97
1:A:46:ALA:HB3	1:A:334:ARG:HH22	1.28	0.97
1:A:732:LEU:CG	1:A:738:LEU:CD2	2.34	0.97
1:B:288:LEU:CD2	1:B:495:VAL:HG21	1.93	0.97
1:B:471:LEU:CD1	1:B:476:SER:HA	1.93	0.97
1:B:678:ILE:HD13	1:B:725:ILE:HG12	1.47	0.97
1:A:52:LEU:CA	1:A:53:LEU:HD23	1.94	0.97
1:A:115:ASN:O	1:A:116:ARG:HD3	1.64	0.97
1:A:127:PRO:CA	1:A:166:PRO:CB	2.20	0.97
1:A:580:TRP:CD2	1:A:581:HIS:HA	1.99	0.97
1:B:408:PHE:CD1	1:B:413:PHE:HE2	1.73	0.97
1:B:501:VAL:HG11	1:B:518:LEU:CB	1.93	0.97
1:B:522:VAL:N	1:B:539:SER:HB3	1.77	0.97
1:B:602:TYR:HB3	1:B:701:GLN:HG3	1.43	0.97
1:B:642:GLU:HG3	1:B:645:ARG:NH2	1.78	0.97
1:A:110:ILE:C	1:A:112:GLY:H	1.53	0.97
1:A:346:THR:HG22	1:A:360:VAL:N	1.78	0.97
1:A:541:ARG:NE	1:A:542:THR:HA	1.77	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:180:TYR:CZ	1:B:492:HIS:ND1	2.33	0.97
1:B:364:TRP:NE1	1:B:628:VAL:HG13	1.77	0.97
1:A:81:SER:C	1:A:85:LEU:HD23	1.85	0.97
1:B:600:LYS:HB2	1:B:602:TYR:CZ	1.99	0.97
1:A:159:SER:CB	1:A:164:ILE:HA	1.93	0.97
1:A:587:PHE:CZ	1:A:621:VAL:HG11	1.72	0.97
1:B:42:ARG:NE	1:B:336:ILE:HA	1.80	0.97
1:B:84:GLU:O	1:B:87:ASN:ND2	1.97	0.97
1:B:92:TYR:CE1	1:B:139:ALA:HB1	1.98	0.97
1:B:246:ALA:O	1:B:250:VAL:HG23	1.64	0.97
1:B:348:ALA:H	1:B:355:PRO:HB3	1.29	0.97
1:B:356:SER:HB2	1:B:435:ALA:CB	1.95	0.97
1:B:506:HIS:HB3	1:B:517:TYR:CE1	1.78	0.97
1:A:132:LEU:HG	1:A:151:THR:HG21	1.47	0.97
1:A:520:TRP:CE3	1:A:545:PRO:HG3	1.98	0.97
1:A:582:GLU:O	1:A:625:LYS:NZ	1.96	0.97
1:A:732:LEU:HG	1:A:738:LEU:CD2	1.95	0.97
1:B:702:MET:SD	1:B:714:LEU:HB2	2.05	0.97
1:A:63:PRO:C	1:A:200:THR:OG1	2.03	0.97
1:A:183:PHE:CE2	1:A:184:TYR:CE1	2.51	0.97
1:A:345:GLN:HB3	1:A:556:GLN:HA	1.46	0.97
1:A:674:LEU:HA	1:A:677:LYS:NZ	1.80	0.97
1:B:156:HIS:CG	1:B:157:VAL:N	2.24	0.97
1:B:202:LEU:HD11	1:B:236:ALA:HB1	1.46	0.97
1:B:208:LYS:HA	1:B:208:LYS:NZ	1.79	0.97
1:B:259:ARG:HA	1:B:269:LEU:CD2	1.95	0.97
1:B:375:PRO:O	1:B:377:LYS:N	1.96	0.97
1:A:44:PHE:CE1	1:A:290:LEU:HD23	1.99	0.96
1:A:51:GLU:CB	1:A:174:VAL:HG21	1.94	0.96
1:A:259:ARG:HB3	1:A:266:PRO:HB3	1.44	0.96
1:A:364:TRP:HZ2	1:A:442:PRO:HG3	1.26	0.96
1:A:448:ASP:CB	1:A:453:ARG:HB2	1.95	0.96
1:A:653:THR:HA	1:A:655:ARG:CG	1.95	0.96
1:B:686:ILE:HG13	1:B:687:GLY:N	1.76	0.96
1:A:59:GLY:HA3	1:A:155:CYS:CB	1.96	0.96
1:A:61:ILE:HG12	1:A:66:TYR:HE2	1.27	0.96
1:A:177:THR:HG23	1:A:447:ARG:HH21	1.14	0.96
1:A:272:SER:N	1:A:276:ARG:HD2	1.78	0.96
1:A:275:LEU:HB3	1:A:276:ARG:CD	1.93	0.96
1:A:342:TYR:HA	1:A:559:GLU:HG2	0.98	0.96
1:A:388:ASP:CG	1:A:389:VAL:H	1.63	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:143:HIS:HB3	1:B:145:LEU:CD1	1.95	0.96
1:B:649:ALA:O	1:B:653:THR:HG23	1.62	0.96
1:A:2:PHE:O	1:A:439:LEU:HD11	1.65	0.96
1:A:81:SER:C	1:A:85:LEU:CD2	2.33	0.96
1:A:346:THR:HG21	1:A:358:VAL:O	1.63	0.96
1:A:715:HIS:HD2	1:B:376:VAL:HG11	1.13	0.96
1:B:21:ALA:HB1	1:B:295:GLN:HG3	1.46	0.96
1:B:362:GLU:OE1	1:B:442:PRO:HG3	1.65	0.96
1:A:20:PHE:O	1:A:22:ILE:O	1.82	0.96
1:B:620:ARG:O	1:B:621:VAL:CG1	2.13	0.96
1:B:735:MET:CB	1:B:737:LEU:HD13	1.93	0.96
1:B:152:ASP:OD1	1:B:153:PHE:N	1.96	0.96
1:B:302:GLY:CA	1:B:303:ARG:NH1	2.27	0.96
1:B:401:LEU:HA	1:B:404:ILE:HG13	0.98	0.96
1:B:422:GLU:CG	1:B:426:GLN:HG3	1.96	0.96
1:A:232:ALA:O	1:A:236:ALA:N	1.98	0.96
1:A:528:ILE:HD12	1:A:528:ILE:H	1.27	0.96
1:A:585:THR:HB	1:A:586:GLU:HA	1.47	0.96
1:A:732:LEU:O	1:A:738:LEU:HD21	1.65	0.96
1:B:8:ASP:OD2	1:B:11:GLY:N	1.98	0.96
1:B:245:ASP:CB	1:B:248:ALA:CB	2.44	0.96
1:A:4:LEU:N	1:A:436:GLU:HB2	1.78	0.96
1:A:420:VAL:HG21	1:A:643:ASP:OD2	1.63	0.96
1:B:14:ARG:NH2	1:B:26:LYS:HA	1.80	0.96
1:B:49:THR:HG23	1:B:176:ARG:CG	1.96	0.96
1:B:117:ALA:CB	1:B:222:PRO:HG2	1.96	0.96
1:B:171:VAL:CG1	1:B:577:ILE:HA	1.94	0.96
1:B:633:ILE:CG2	1:B:738:LEU:HD11	1.96	0.96
1:A:99:ASN:CG	1:A:101:GLU:OE1	2.02	0.96
1:A:176:ARG:NH1	1:A:446:GLU:O	1.84	0.96
1:A:448:ASP:HB3	1:A:453:ARG:HB2	1.44	0.96
1:B:54:TRP:H	1:B:172:TYR:C	1.68	0.96
1:B:159:SER:OG	1:B:163:PHE:N	1.98	0.96
1:B:321:PHE:HE1	1:B:322:ILE:O	1.47	0.96
1:B:321:PHE:HE1	1:B:325:MET:HG2	1.17	0.96
1:A:51:GLU:HB3	1:A:174:VAL:HG21	1.48	0.96
1:A:387:LEU:HD11	1:A:577:ILE:CG1	1.94	0.96
1:B:69:LEU:CA	1:B:72:GLN:HB3	1.95	0.96
1:B:351:HIS:HB3	1:B:428:GLY:HA2	1.47	0.96
1:B:471:LEU:HB2	1:B:476:SER:HA	1.48	0.96
1:B:597:ILE:HG21	1:B:714:LEU:N	1.80	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:143:HIS:O	1:A:145:LEU:HD12	1.65	0.96
1:B:14:ARG:HH21	1:B:26:LYS:HA	1.29	0.96
1:B:255:THR:CG2	1:B:303:ARG:O	2.14	0.96
1:B:289:ALA:CA	1:B:292:ILE:HD13	1.95	0.96
1:B:292:ILE:HA	1:B:295:GLN:NE2	1.80	0.96
1:B:366:PHE:CE2	1:B:405:GLY:HA2	1.99	0.96
1:B:729:LEU:HD22	1:B:732:LEU:CD1	1.95	0.96
1:B:732:LEU:CD2	1:B:733:GLN:HB2	1.94	0.96
1:A:313:LEU:HA	1:A:315:SER:HB3	1.45	0.95
1:B:417:ARG:NH2	1:B:639:TRP:CG	2.25	0.95
1:B:707:LEU:HD13	1:B:708:ILE:N	1.81	0.95
1:A:119:LYS:CA	1:A:219:ALA:HA	1.95	0.95
1:A:180:TYR:CG	1:A:331:PHE:HB3	2.01	0.95
1:A:346:THR:OG1	1:A:358:VAL:CB	2.14	0.95
1:A:493:TYR:CE2	1:A:549:ILE:HG21	2.01	0.95
1:A:580:TRP:CG	1:A:581:HIS:HA	2.02	0.95
1:A:732:LEU:HD12	1:A:738:LEU:HD22	1.02	0.95
1:B:35:GLN:HG2	1:B:502:VAL:HG23	1.48	0.95
1:B:497:HIS:CG	1:B:549:ILE:HD12	1.75	0.95
1:A:182:ASN:HA	1:A:484:PHE:CE2	2.01	0.95
1:A:597:ILE:CD1	1:A:598:ARG:CD	2.44	0.95
1:B:647:LEU:CD2	1:B:663:ILE:CB	2.43	0.95
1:A:12:SER:HB3	1:A:463:ARG:HH21	1.30	0.95
1:A:258:GLY:HA2	1:A:261:TRP:HE3	1.29	0.95
1:A:587:PHE:HZ	1:A:621:VAL:HG11	0.79	0.95
1:B:125:LYS:H	1:B:165:LEU:HD11	1.29	0.95
1:A:294:TYR:CZ	1:A:516:LEU:HG	2.01	0.95
1:A:566:LEU:HD13	1:A:568:LEU:HG	1.47	0.95
1:A:708:ILE:O	1:A:711:SER:OG	1.85	0.95
1:B:107:THR:HA	1:B:110:ILE:CD1	1.95	0.95
1:A:548:ALA:O	1:A:552:ASN:CA	2.14	0.95
1:A:597:ILE:HG12	1:A:602:TYR:CE1	2.00	0.95
1:B:308:PHE:HZ	1:B:318:ILE:CB	1.74	0.95
1:B:417:ARG:NH2	1:B:639:TRP:CD1	2.34	0.95
1:B:118:ILE:O	1:B:222:PRO:HD3	1.65	0.95
1:B:506:HIS:CA	1:B:517:TYR:OH	2.14	0.95
1:A:173:ARG:HG2	1:A:579:PRO:HG3	1.46	0.95
1:A:195:LEU:HD22	1:A:199:LEU:HG	1.46	0.95
1:A:207:SER:HB2	1:A:228:HIS:CE1	2.01	0.95
1:A:312:GLU:O	1:A:315:SER:OG	1.84	0.95
1:B:111:THR:OG1	1:B:121:ASP:OD1	1.85	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:231:ASN:O	1:B:235:THR:OG1	1.83	0.95
1:B:643:ASP:O	1:B:646:THR:OG1	1.85	0.95
1:B:35:GLN:OE1	1:B:504:SER:OG	1.85	0.95
1:B:86:VAL:O	1:B:90:THR:OG1	1.83	0.95
1:B:141:SER:CB	1:B:147:HIS:HB2	1.97	0.95
1:B:252:SER:O	1:B:255:THR:OG1	1.85	0.95
1:B:408:PHE:HE1	1:B:636:TRP:CD1	1.83	0.95
1:A:4:LEU:CD2	1:A:17:THR:HG21	1.95	0.95
1:A:517:TYR:HE2	1:A:520:TRP:CH2	1.73	0.95
1:A:566:LEU:CD1	1:A:568:LEU:N	2.30	0.94
1:A:669:GLN:O	1:A:673:THR:OG1	1.85	0.94
1:A:717:GLY:O	1:A:720:ARG:CB	2.15	0.94
1:B:288:LEU:HD21	1:B:495:VAL:HG21	1.49	0.94
1:A:10:ASN:O	1:A:14:ARG:CB	2.14	0.94
1:B:106:LEU:O	1:B:107:THR:C	2.03	0.94
1:B:302:GLY:HA3	1:B:303:ARG:HH12	1.31	0.94
1:B:606:VAL:HB	1:B:697:ARG:NH2	1.81	0.94
1:B:729:LEU:HA	1:B:732:LEU:CD1	1.96	0.94
1:A:128:PRO:HD3	1:A:166:PRO:O	1.66	0.94
1:B:94:GLN:HB2	1:B:237:PHE:CZ	2.02	0.94
1:B:377:LYS:HA	1:B:385:ARG:HD3	1.47	0.94
1:B:569:ALA:CA	1:B:572:THR:HB	1.96	0.94
1:B:38:LEU:HD11	1:B:502:VAL:HA	1.47	0.94
1:B:113:SER:HB3	1:B:115:ASN:ND2	1.81	0.94
1:A:42:ARG:NH1	1:A:336:ILE:HD11	1.79	0.94
1:A:176:ARG:NH1	1:A:446:GLU:HG2	1.83	0.94
1:A:195:LEU:O	1:A:199:LEU:CB	2.14	0.94
1:A:419:ALA:HA	1:A:421:TYR:CE1	2.01	0.94
1:A:521:ASN:O	1:A:539:SER:OG	1.85	0.94
1:B:9:LEU:HD23	1:B:16:LEU:HB3	1.47	0.94
1:B:119:LYS:HB2	1:B:219:ALA:HB3	1.49	0.94
1:B:308:PHE:CZ	1:B:318:ILE:CD1	2.50	0.94
1:B:321:PHE:CE1	1:B:325:MET:CG	2.51	0.94
1:A:34:LEU:HB3	1:A:504:SER:HB3	1.46	0.94
1:A:408:PHE:HZ	1:A:636:TRP:HZ2	1.08	0.94
1:A:669:GLN:HB2	1:B:123:VAL:HG11	1.47	0.94
1:A:732:LEU:HD11	1:A:738:LEU:HD22	1.47	0.94
1:B:6:VAL:N	1:B:435:ALA:HB3	1.82	0.94
1:B:42:ARG:HE	1:B:336:ILE:HA	1.33	0.94
1:B:125:LYS:H	1:B:165:LEU:CD2	1.80	0.94
1:B:176:ARG:CZ	1:B:446:GLU:HG2	1.98	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:232:ALA:O	1:B:239:ARG:NH2	2.00	0.94
1:B:400:THR:HG21	1:B:686:ILE:CG2	1.96	0.94
1:B:467:VAL:HG21	1:B:479:LEU:HD11	0.97	0.94
1:A:103:TRP:O	1:A:107:THR:OG1	1.84	0.94
1:A:404:ILE:HD12	1:A:681:ILE:CG2	1.96	0.94
1:A:408:PHE:CZ	1:A:636:TRP:NE1	2.35	0.94
1:B:126:VAL:N	1:B:127:PRO:HD2	1.82	0.94
1:B:199:LEU:O	1:B:203:SER:N	2.01	0.94
1:B:592:ALA:HA	1:B:726:TRP:CZ2	2.02	0.94
1:B:607:LYS:CB	1:B:609:PHE:CD1	2.41	0.94
1:A:48:MET:O	1:A:50:SER:OG	1.85	0.94
1:A:61:ILE:HG12	1:A:66:TYR:CE2	2.03	0.94
1:A:101:GLU:C	1:A:103:TRP:N	2.19	0.94
1:A:257:LEU:HB3	1:A:261:TRP:CH2	2.02	0.94
1:A:262:SER:O	1:A:263:PRO:C	2.04	0.94
1:A:410:VAL:HG13	1:A:411:SER:N	1.82	0.94
1:A:444:VAL:O	1:A:447:ARG:N	2.00	0.94
1:A:638:SER:O	1:A:641:VAL:HB	1.67	0.94
1:A:678:ILE:HG21	1:A:725:ILE:CD1	1.98	0.94
1:A:683:THR:HG22	1:A:684:THR:H	1.29	0.94
1:B:22:ILE:HG22	1:B:506:HIS:ND1	1.82	0.94
1:B:38:LEU:HD11	1:B:502:VAL:CA	1.97	0.94
1:B:69:LEU:HA	1:B:72:GLN:CB	1.98	0.94
1:A:42:ARG:HG3	1:A:336:ILE:HD12	1.48	0.94
1:A:62:ASP:OD1	1:A:64:VAL:N	2.01	0.94
1:A:445:VAL:CG1	1:A:456:MET:HB3	1.97	0.94
1:A:468:ASP:C	1:A:469:GLU:HG2	1.88	0.94
1:A:617:ARG:HG2	1:A:617:ARG:HH11	1.32	0.94
1:A:732:LEU:O	1:A:738:LEU:CG	2.16	0.94
1:B:94:GLN:HA	1:B:237:PHE:HE2	1.32	0.94
1:B:259:ARG:HG3	1:B:269:LEU:CD2	1.96	0.94
1:B:669:GLN:O	1:B:673:THR:OG1	1.85	0.94
1:A:126:VAL:O	1:A:166:PRO:N	2.01	0.94
1:A:476:SER:HA	1:A:479:LEU:CD1	1.98	0.94
1:A:558:SER:N	1:A:559:GLU:OE1	2.01	0.94
1:B:153:PHE:HZ	1:B:202:LEU:HB3	1.31	0.94
1:B:183:PHE:HE1	1:B:250:VAL:HG12	1.33	0.94
1:B:329:SER:OG	1:B:331:PHE:N	2.00	0.94
1:A:36:LEU:H	1:A:263:PRO:CA	1.80	0.93
1:A:145:LEU:O	1:A:148:HIS:N	2.02	0.93
1:B:321:PHE:HD1	1:B:322:ILE:H	1.00	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:358:VAL:HG13	1:B:437:MET:HA	1.48	0.93
1:A:2:PHE:CD2	1:A:459:ILE:HG21	1.84	0.93
1:A:6:VAL:CG2	1:A:434:GLY:HA3	1.98	0.93
1:A:36:LEU:CB	1:A:263:PRO:CA	2.45	0.93
1:A:127:PRO:CB	1:A:130:ALA:HB3	1.98	0.93
1:A:444:VAL:HG23	1:A:445:VAL:N	1.81	0.93
1:A:541:ARG:CD	1:A:542:THR:HA	1.98	0.93
1:B:93:HIS:O	1:B:237:PHE:CG	2.21	0.93
1:A:207:SER:HB2	1:A:228:HIS:HE1	1.32	0.93
1:A:208:LYS:HA	1:A:208:LYS:HE3	1.50	0.93
1:A:445:VAL:HG13	1:A:456:MET:CB	1.98	0.93
1:A:624:LEU:HB2	1:A:626:PRO:HG3	1.51	0.93
1:A:715:HIS:HE1	1:B:378:LEU:HD22	1.23	0.93
1:B:128:PRO:HB3	1:B:131:ILE:CG2	1.99	0.93
1:B:209:MET:O	1:B:213:THR:OG1	1.87	0.93
1:B:342:TYR:HB3	1:B:559:GLU:HB2	1.51	0.93
1:A:24:GLU:C	1:A:26:LYS:HB2	1.88	0.93
1:A:127:PRO:HA	1:A:166:PRO:HB3	0.94	0.93
1:A:732:LEU:HD12	1:A:738:LEU:HD23	1.48	0.93
1:B:93:HIS:CD2	1:B:237:PHE:HD1	1.85	0.93
1:B:112:GLY:O	1:B:113:SER:CB	2.16	0.93
1:B:312:GLU:OE1	1:B:316:THR:OG1	1.85	0.93
1:B:705:ARG:HB3	1:B:707:LEU:CD1	1.98	0.93
1:A:87:ASN:O	1:A:90:THR:OG1	1.85	0.93
1:A:213:THR:CB	1:A:215:LYS:HB3	1.98	0.93
1:A:231:ASN:OD1	1:A:232:ALA:N	2.00	0.93
1:A:258:GLY:O	1:A:262:SER:OG	1.85	0.93
1:A:345:GLN:CB	1:A:556:GLN:HA	1.98	0.93
1:A:540:ILE:HG21	1:A:541:ARG:HH21	1.30	0.93
1:A:671:ALA:HA	1:A:674:LEU:HD11	1.51	0.93
1:B:173:ARG:HD2	1:B:174:VAL:H	1.15	0.93
1:B:310:ASP:N	1:B:314:SER:O	1.99	0.93
1:A:30:SER:O	1:A:31:VAL:HG12	1.69	0.93
1:A:408:PHE:CD1	1:A:636:TRP:NE1	2.21	0.93
1:A:436:GLU:O	1:A:438:THR:N	2.02	0.93
1:A:688:ALA:HA	1:A:691:VAL:HG23	1.50	0.93
1:B:83:ASP:CG	1:B:191:ARG:HD2	1.88	0.93
1:B:102:ILE:CB	1:B:135:LEU:HD11	1.99	0.93
1:B:156:HIS:NE2	1:B:210:LEU:HD21	1.82	0.93
1:B:376:VAL:CG1	1:B:378:LEU:HD21	1.95	0.93
1:A:294:TYR:O	1:A:298:VAL:N	2.01	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:307:ILE:HD12	1:A:308:PHE:HD1	1.31	0.93
1:A:352:MET:HE1	1:A:428:GLY:H	1.33	0.93
1:A:414:VAL:O	1:A:418:THR:OG1	1.84	0.93
1:A:648:ALA:HB1	1:A:652:ARG:NH2	1.82	0.93
1:B:225:ILE:O	1:B:229:LEU:N	2.01	0.93
1:B:422:GLU:HG3	1:B:426:GLN:CG	1.99	0.93
1:A:522:VAL:HG23	1:A:523:ARG:H	1.33	0.93
1:B:254:LEU:HD21	1:B:297:MET:CB	1.80	0.93
1:B:260:LEU:HD22	1:B:276:ARG:HH12	1.33	0.93
1:B:316:THR:HG22	1:B:320:TRP:HE1	1.33	0.93
1:B:607:LYS:CA	1:B:609:PHE:HB2	1.99	0.93
1:B:698:ILE:HA	1:B:701:GLN:HB2	1.48	0.93
1:A:4:LEU:HB3	1:A:13:ALA:HB2	1.47	0.93
1:A:40:PHE:CE2	1:A:291:PHE:HB2	2.02	0.93
1:A:107:THR:O	1:A:112:GLY:CA	2.16	0.93
1:A:196:ARG:HD2	1:A:328:VAL:CG1	1.98	0.93
1:A:610:GLU:HA	1:A:613:GLY:HA2	1.49	0.93
1:B:245:ASP:OD2	1:B:248:ALA:HB2	1.67	0.93
1:B:276:ARG:O	1:B:285:ARG:NH2	2.02	0.93
1:B:393:ILE:HG22	1:B:397:MET:HG2	1.51	0.93
1:B:451:LEU:HB3	1:B:453:ARG:HD3	1.47	0.93
1:B:526:LEU:HD23	1:B:527:ARG:H	1.32	0.93
1:A:265:THR:HG23	1:A:267:LYS:CG	1.99	0.93
1:A:345:GLN:HA	1:A:360:VAL:HG12	1.51	0.93
1:B:72:GLN:HG2	1:B:174:VAL:HG12	1.48	0.93
1:B:243:ASN:HD22	1:B:244:PHE:HB2	1.32	0.93
1:B:372:ALA:HB3	1:B:389:VAL:HG23	1.39	0.93
1:B:526:LEU:HD22	1:B:527:ARG:H	0.78	0.93
1:A:37:PRO:CB	1:A:501:VAL:HG23	1.99	0.92
1:B:103:TRP:O	1:B:107:THR:OG1	1.87	0.92
1:B:105:LYS:CA	1:B:108:ALA:HB3	1.98	0.92
1:B:158:LEU:HA	1:B:160:PRO:N	1.84	0.92
1:B:226:SER:HA	1:B:229:LEU:HB3	1.50	0.92
1:A:22:ILE:C	1:A:299:LYS:HD3	1.88	0.92
1:A:86:VAL:HG11	1:A:191:ARG:CG	1.99	0.92
1:A:108:ALA:CA	1:A:112:GLY:HA3	1.99	0.92
1:A:128:PRO:CG	1:A:166:PRO:O	2.17	0.92
1:A:257:LEU:HD22	1:A:288:LEU:CD1	1.98	0.92
1:A:595:VAL:HB	1:A:602:TYR:HB3	1.50	0.92
1:B:16:LEU:HG	1:B:546:LEU:CD1	1.97	0.92
1:B:502:VAL:CG2	1:B:519:VAL:HG22	1.98	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:702:MET:HG2	1:B:714:LEU:CD1	1.99	0.92
1:A:187:VAL:CG1	1:A:246:ALA:O	2.10	0.92
1:A:346:THR:HG21	1:A:438:THR:OG1	1.67	0.92
1:A:459:ILE:O	1:A:463:ARG:N	2.03	0.92
1:A:740:ARG:H	1:A:742:GLU:CD	1.71	0.92
1:B:73:TYR:O	1:B:78:GLY:N	2.02	0.92
1:B:221:ALA:HB1	1:B:222:PRO:CD	1.98	0.92
1:B:472:GLU:OE1	1:B:473:ALA:N	2.03	0.92
1:B:693:LEU:HG	1:B:697:ARG:NH1	1.83	0.92
1:A:159:SER:HB2	1:A:164:ILE:HB	0.96	0.92
1:A:417:ARG:NH1	1:A:642:GLU:OE1	2.01	0.92
1:A:741:SER:N	1:A:742:GLU:OE1	2.02	0.92
1:B:93:HIS:O	1:B:237:PHE:CD1	2.22	0.92
1:B:125:LYS:N	1:B:165:LEU:HD21	1.83	0.92
1:A:176:ARG:CZ	1:A:446:GLU:HB3	1.98	0.92
1:A:213:THR:OG1	1:A:215:LYS:NZ	2.03	0.92
1:A:334:ARG:HG3	1:A:335:PRO:N	1.84	0.92
1:B:444:VAL:HG12	1:B:486:TYR:CD1	2.05	0.92
1:B:551:TYR:O	1:B:552:ASN:OD1	1.88	0.92
1:A:127:PRO:HB2	1:A:130:ALA:HB3	1.52	0.92
1:A:134:GLN:O	1:A:137:THR:OG1	1.85	0.92
1:A:337:ASN:HD21	1:A:496:ALA:HB1	1.35	0.92
1:A:566:LEU:HD12	1:A:567:ASP:N	1.85	0.92
1:B:66:TYR:O	1:B:69:LEU:N	2.03	0.92
1:B:183:PHE:CE2	1:B:184:TYR:CE1	2.57	0.92
1:B:415:LYS:HE3	1:B:416:ASN:CA	2.00	0.92
1:A:386:PHE:CE1	1:A:576:HIS:HB3	2.05	0.92
1:B:530:VAL:HB	1:B:551:TYR:CZ	2.03	0.92
1:B:595:VAL:HG22	1:B:714:LEU:HD22	1.52	0.92
1:A:2:PHE:O	1:A:3:ASN:ND2	2.03	0.92
1:A:310:ASP:CB	1:A:313:LEU:HD13	2.00	0.92
1:A:541:ARG:CZ	1:A:542:THR:HA	2.00	0.92
1:A:636:TRP:CD2	1:A:640:PHE:CZ	2.58	0.92
1:A:715:HIS:CD2	1:B:388:ASP:OD2	2.23	0.92
1:B:38:LEU:O	1:B:39:GLN:HG2	1.68	0.92
1:B:125:LYS:N	1:B:165:LEU:HD11	1.85	0.92
1:A:663:ILE:O	1:A:667:ARG:N	2.03	0.92
1:B:13:ALA:CB	1:B:16:LEU:HD22	2.00	0.92
1:B:19:ALA:HB1	1:B:24:GLU:HB3	0.95	0.92
1:B:45:SER:OG	1:B:179:THR:O	1.87	0.92
1:B:183:PHE:HZ	1:B:301:ARG:HH12	1.17	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:362:GLU:HA	1:B:441:PHE:HA	1.49	0.92
1:A:173:ARG:NH1	1:A:173:ARG:HB2	1.85	0.92
1:A:303:ARG:HH12	1:A:513:GLN:HG3	1.34	0.92
1:B:16:LEU:CG	1:B:546:LEU:HD11	2.00	0.91
1:B:44:PHE:CZ	1:B:333:LEU:HD22	2.05	0.91
1:B:102:ILE:HG22	1:B:138:LEU:HD12	1.51	0.91
1:B:209:MET:HG3	1:B:225:ILE:HG21	1.52	0.91
1:B:209:MET:HG3	1:B:225:ILE:CG2	2.00	0.91
1:B:668:MET:SD	1:B:671:ALA:HB3	2.09	0.91
1:A:105:LYS:NZ	1:A:134:GLN:O	2.00	0.91
1:A:503:VAL:CG1	1:A:518:LEU:HA	2.00	0.91
1:B:156:HIS:CD2	1:B:210:LEU:CD2	2.54	0.91
1:B:190:VAL:CG1	1:B:323:GLU:HB3	2.00	0.91
1:B:414:VAL:O	1:B:418:THR:OG1	1.88	0.91
1:A:101:GLU:O	1:A:104:ARG:HG2	1.69	0.91
1:A:345:GLN:HB3	1:A:556:GLN:HE21	1.34	0.91
1:A:715:HIS:NE2	1:B:376:VAL:HG12	1.84	0.91
1:B:70:PHE:CD1	1:B:85:LEU:HD11	2.05	0.91
1:B:132:LEU:CD2	1:B:151:THR:HG23	1.99	0.91
1:B:481:ARG:HA	1:B:484:PHE:HD2	1.35	0.91
1:B:637:TYR:HA	1:B:640:PHE:HD2	1.33	0.91
1:A:213:THR:CB	1:A:215:LYS:HD3	2.00	0.91
1:B:3:ASN:CB	1:B:436:GLU:HG2	1.99	0.91
1:B:401:LEU:CD2	1:B:404:ILE:CD1	2.47	0.91
1:B:666:ARG:HA	1:B:669:GLN:NE2	1.84	0.91
1:A:36:LEU:HG	1:A:263:PRO:HA	1.45	0.91
1:A:40:PHE:CD2	1:A:291:PHE:CB	2.51	0.91
1:A:128:PRO:CD	1:A:166:PRO:O	2.19	0.91
1:A:352:MET:SD	1:A:427:ARG:HA	2.09	0.91
1:B:360:VAL:HG23	1:B:439:LEU:HA	1.49	0.91
1:B:597:ILE:HD12	1:B:713:ASP:OD2	1.66	0.91
1:A:20:PHE:O	1:A:22:ILE:N	2.04	0.91
1:A:99:ASN:OD1	1:A:101:GLU:CD	2.07	0.91
1:A:637:TYR:OH	1:A:745:ALA:HB3	1.70	0.91
1:B:47:SER:OG	1:B:332:LYS:NZ	2.04	0.91
1:B:202:LEU:HD11	1:B:236:ALA:CB	1.99	0.91
1:B:303:ARG:HG3	1:B:303:ARG:HH11	1.34	0.91
1:B:630:HIS:O	1:B:634:GLN:NE2	2.03	0.91
1:A:275:LEU:CB	1:A:276:ARG:HD3	1.97	0.91
1:A:349:ILE:HG13	1:A:350:ASP:H	1.35	0.91
1:A:751:GLY:O	1:A:754:ASN:O	1.88	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:45:SER:O	1:B:334:ARG:NH2	2.04	0.91
1:B:132:LEU:HD11	1:B:150:THR:HB	1.53	0.91
1:B:260:LEU:HD12	1:B:261:TRP:NE1	1.85	0.91
1:B:350:ASP:CA	1:B:427:ARG:O	2.19	0.91
1:B:354:GLN:CG	1:B:528:ILE:HG21	2.00	0.91
1:A:39:GLN:O	1:A:39:GLN:NE2	2.04	0.91
1:A:100:PRO:O	1:A:103:TRP:HB2	1.70	0.91
1:A:195:LEU:HD22	1:A:199:LEU:CG	2.01	0.91
1:A:503:VAL:HG23	1:A:519:VAL:HB	1.51	0.91
1:A:717:GLY:O	1:A:720:ARG:CA	2.18	0.91
1:B:205:VAL:HG21	1:B:232:ALA:HB1	1.52	0.91
1:B:677:LYS:N	1:B:677:LYS:HE3	1.85	0.91
1:A:40:PHE:CD2	1:A:288:LEU:O	2.24	0.91
1:A:187:VAL:CG1	1:A:247:ASN:HA	1.98	0.91
1:A:205:VAL:HG21	1:A:239:ARG:NH2	1.86	0.91
1:A:306:VAL:HG11	1:A:309:SER:HB2	1.52	0.91
1:A:361:TYR:HD2	1:A:362:GLU:H	1.05	0.91
1:A:732:LEU:O	1:A:738:LEU:CD2	2.18	0.91
1:B:44:PHE:CD1	1:B:333:LEU:HA	2.06	0.91
1:B:607:LYS:HB2	1:B:609:PHE:CD1	2.06	0.91
1:B:642:GLU:CG	1:B:645:ARG:HH22	1.82	0.91
1:A:16:LEU:HD21	1:A:462:LEU:HB3	1.50	0.91
1:A:184:TYR:O	1:A:187:VAL:N	2.04	0.91
1:A:190:VAL:HG11	1:A:249:VAL:HG21	1.50	0.91
1:A:517:TYR:CD2	1:A:520:TRP:CE2	2.57	0.91
1:B:244:PHE:HZ	1:B:318:ILE:HA	1.30	0.91
1:B:590:GLU:HB2	1:B:607:LYS:CD	2.00	0.91
1:A:462:LEU:HD11	1:A:483:MET:CG	2.01	0.90
1:A:535:ILE:HD11	1:A:540:ILE:CA	1.99	0.90
1:B:5:LYS:C	1:B:435:ALA:HB3	1.92	0.90
1:B:535:ILE:O	1:B:536:GLU:HB2	1.70	0.90
1:B:535:ILE:HG21	1:B:539:SER:N	1.86	0.90
1:A:1:GLY:O	1:A:3:ASN:ND2	2.04	0.90
1:A:40:PHE:HD2	1:A:291:PHE:HB2	1.18	0.90
1:A:177:THR:OG1	1:A:447:ARG:NH2	2.02	0.90
1:A:283:GLN:O	1:A:286:SER:OG	1.87	0.90
1:A:448:ASP:HB2	1:A:455:PRO:CD	2.00	0.90
1:A:758:MET:HB3	1:A:759:VAL:HA	1.52	0.90
1:B:97:ALA:CA	1:B:234:THR:HG21	2.00	0.90
1:B:128:PRO:CB	1:B:131:ILE:HG22	2.00	0.90
1:B:340:THR:O	1:B:342:TYR:CE2	2.24	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:287:ASN:HD21	1:A:290:LEU:HD11	1.37	0.90
1:A:630:HIS:CA	1:A:737:LEU:CG	2.47	0.90
1:A:735:MET:HE3	1:A:737:LEU:HB2	1.52	0.90
1:A:750:LEU:HD12	1:A:751:GLY:N	1.86	0.90
1:B:6:VAL:HG21	1:B:530:VAL:HA	1.53	0.90
1:B:373:PHE:CE2	1:B:583:ALA:CB	2.46	0.90
1:B:668:MET:HA	1:B:671:ALA:CB	2.00	0.90
1:A:128:PRO:N	1:A:129:THR:HB	1.87	0.90
1:A:128:PRO:CA	1:A:166:PRO:CB	2.48	0.90
1:A:169:ALA:C	1:A:575:ILE:HG21	1.90	0.90
1:A:278:THR:HG21	1:A:281:ILE:CG2	2.01	0.90
1:A:527:ARG:NH1	1:A:528:ILE:HD12	1.85	0.90
1:B:260:LEU:HG	1:B:285:ARG:HB3	1.51	0.90
1:B:288:LEU:HD13	1:B:495:VAL:CG1	2.02	0.90
1:B:462:LEU:HD13	1:B:463:ARG:N	1.85	0.90
1:B:522:VAL:HB	1:B:540:ILE:CG1	2.01	0.90
1:A:61:ILE:CB	1:A:156:HIS:HD2	1.79	0.90
1:A:128:PRO:CA	1:A:166:PRO:HB2	2.01	0.90
1:A:373:PHE:HE2	1:A:387:LEU:HD22	1.37	0.90
1:A:653:THR:CA	1:A:655:ARG:CG	2.42	0.90
1:B:3:ASN:ND2	1:B:436:GLU:OE2	2.04	0.90
1:B:38:LEU:HD11	1:B:502:VAL:N	1.86	0.90
1:B:540:ILE:HD11	1:B:551:TYR:O	1.72	0.90
1:B:633:ILE:HG23	1:B:738:LEU:HD11	1.53	0.90
1:A:18:GLN:CA	1:A:21:ALA:HB2	2.00	0.90
1:A:52:LEU:HD13	1:A:53:LEU:H	1.37	0.90
1:A:349:ILE:HG12	1:A:354:GLN:C	1.91	0.90
1:A:581:HIS:O	1:A:583:ALA:N	2.04	0.90
1:B:371:THR:OG1	1:B:623:ILE:HG12	1.71	0.90
1:B:695:GLN:O	1:B:699:VAL:N	2.04	0.90
1:A:73:TYR:CE2	1:A:143:HIS:CB	2.54	0.90
1:A:81:SER:O	1:A:85:LEU:CD2	2.19	0.90
1:A:262:SER:HB3	1:A:516:LEU:HD21	1.52	0.90
1:A:660:LYS:HG3	1:A:661:LEU:HD13	1.54	0.90
1:B:82:VAL:O	1:B:85:LEU:N	2.05	0.90
1:B:338:GLU:OE1	1:B:339:THR:N	2.04	0.90
1:A:127:PRO:C	1:A:166:PRO:HB2	1.89	0.90
1:A:669:GLN:HB2	1:B:123:VAL:CG1	2.02	0.90
1:A:715:HIS:NE2	1:B:376:VAL:CG1	2.34	0.90
1:A:729:LEU:HA	1:A:732:LEU:HD23	1.52	0.90
1:B:18:GLN:OE1	1:B:518:LEU:HD12	1.71	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:408:PHE:O	1:B:632:ILE:HD11	1.70	0.90
1:A:310:ASP:HB3	1:A:313:LEU:HD13	1.53	0.90
1:A:548:ALA:HA	1:A:551:TYR:HB2	1.50	0.90
1:B:23:GLY:HA2	1:B:299:LYS:NZ	1.86	0.90
1:B:51:GLU:OE1	1:B:565:VAL:N	2.05	0.90
1:B:176:ARG:NH2	1:B:447:ARG:HA	1.86	0.90
1:B:180:TYR:CZ	1:B:492:HIS:CE1	2.60	0.90
1:B:427:ARG:N	1:B:428:GLY:HA3	1.84	0.90
1:B:610:GLU:O	1:B:612:LEU:N	2.05	0.90
1:B:642:GLU:HG2	1:B:645:ARG:CZ	2.02	0.90
1:A:187:VAL:HG13	1:A:247:ASN:N	1.81	0.90
1:B:183:PHE:HE2	1:B:184:TYR:CE1	1.90	0.90
1:B:360:VAL:CG2	1:B:439:LEU:HA	2.01	0.90
1:B:361:TYR:CE1	1:B:441:PHE:CE2	2.52	0.90
1:B:525:GLU:OE1	1:B:525:GLU:N	2.05	0.90
1:A:173:ARG:HB2	1:A:173:ARG:HH11	1.34	0.89
1:B:294:TYR:CE1	1:B:298:VAL:HG21	2.07	0.89
1:B:313:LEU:HA	1:B:316:THR:HB	1.54	0.89
1:A:345:GLN:CD	1:A:346:THR:N	2.23	0.89
1:A:540:ILE:HG22	1:A:541:ARG:HH21	1.33	0.89
1:A:630:HIS:CB	1:A:737:LEU:CD1	2.49	0.89
1:B:343:ILE:HD11	1:B:493:TYR:CE1	2.07	0.89
1:A:189:CYS:HB3	1:A:323:GLU:CD	1.92	0.89
1:A:344:GLY:HA3	1:A:361:TYR:H	1.35	0.89
1:B:30:SER:OG	1:B:543:PRO:HG3	1.73	0.89
1:B:125:LYS:HA	1:B:128:PRO:HD3	1.52	0.89
1:B:205:VAL:HG21	1:B:232:ALA:CB	2.01	0.89
1:B:365:GLN:NE2	1:B:365:GLN:HA	1.86	0.89
1:A:292:ILE:HG23	1:A:295:GLN:CG	2.00	0.89
1:A:533:ASN:HD21	1:A:541:ARG:CZ	1.85	0.89
1:A:716:VAL:CG2	1:B:378:LEU:HD13	2.03	0.89
1:B:103:TRP:O	1:B:107:THR:N	2.04	0.89
1:B:580:TRP:CH2	1:B:581:HIS:NE2	2.39	0.89
1:A:108:ALA:HA	1:A:112:GLY:CA	2.01	0.89
1:A:187:VAL:HG11	1:A:247:ASN:HA	1.54	0.89
1:A:276:ARG:HB3	1:A:281:ILE:HG12	1.53	0.89
1:A:338:GLU:OE1	1:A:338:GLU:N	2.05	0.89
1:B:371:THR:O	1:B:623:ILE:CB	2.20	0.89
1:B:497:HIS:HB2	1:B:549:ILE:HD11	0.91	0.89
1:B:575:ILE:CA	1:B:576:HIS:HB2	2.02	0.89
1:B:729:LEU:CA	1:B:732:LEU:HB3	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:527:ARG:HA	1:A:527:ARG:NH1	1.88	0.89
1:A:675:LEU:HD13	1:A:721:HIS:CD2	2.07	0.89
1:B:71:PHE:CE2	1:B:329:SER:HA	2.08	0.89
1:A:281:ILE:HD12	1:A:282:ASP:N	1.87	0.89
1:A:507:GLN:N	1:A:507:GLN:OE1	2.05	0.89
1:A:654:SER:OG	1:A:659:GLU:OE1	1.89	0.89
1:B:41:THR:OG1	1:B:287:ASN:ND2	2.05	0.89
1:B:184:TYR:HA	1:B:187:VAL:CG2	2.03	0.89
1:B:501:VAL:HA	1:B:520:TRP:CD1	2.08	0.89
1:B:729:LEU:HD22	1:B:732:LEU:HD13	1.54	0.89
1:A:358:VAL:O	1:A:438:THR:OG1	1.89	0.89
1:A:503:VAL:HG11	1:A:518:LEU:CA	2.02	0.89
1:B:403:PRO:O	1:B:406:ASN:CB	2.21	0.89
1:A:257:LEU:HD13	1:A:261:TRP:CH2	2.07	0.89
1:A:268:GLU:CD	1:A:269:LEU:HG	1.92	0.89
1:B:9:LEU:CD2	1:B:16:LEU:HB3	2.02	0.89
1:A:754:ASN:HB3	1:A:755:ALA:C	1.93	0.89
1:B:695:GLN:HA	1:B:698:ILE:HG13	1.53	0.89
1:A:39:GLN:CG	1:A:499:PRO:HB3	2.03	0.88
1:A:99:ASN:CG	1:A:101:GLU:CD	2.32	0.88
1:A:129:THR:O	1:A:132:LEU:CB	2.20	0.88
1:A:268:GLU:OE1	1:A:269:LEU:N	2.04	0.88
1:A:346:THR:CB	1:A:358:VAL:HA	2.02	0.88
1:B:56:VAL:HB	1:B:148:HIS:NE2	1.88	0.88
1:B:366:PHE:CA	1:B:563:ALA:HB2	2.03	0.88
1:B:376:VAL:O	1:B:378:LEU:CG	2.21	0.88
1:B:583:ALA:HA	1:B:624:LEU:HB2	1.53	0.88
1:B:597:ILE:CD1	1:B:713:ASP:CG	2.41	0.88
1:A:51:GLU:C	1:A:174:VAL:HG11	1.93	0.88
1:A:213:THR:HG1	1:A:215:LYS:NZ	1.71	0.88
1:B:40:PHE:CZ	1:B:495:VAL:HG12	2.08	0.88
1:B:105:LYS:HA	1:B:108:ALA:CB	2.03	0.88
1:B:308:PHE:CE2	1:B:318:ILE:CD1	2.55	0.88
1:A:60:ASN:CA	1:A:156:HIS:CG	2.55	0.88
1:A:101:GLU:CB	1:A:104:ARG:CD	2.48	0.88
1:A:159:SER:CB	1:A:164:ILE:CA	2.46	0.88
1:A:234:THR:CA	1:A:237:PHE:CB	2.50	0.88
1:A:653:THR:C	1:A:655:ARG:HB2	1.92	0.88
1:B:37:PRO:HG2	1:B:261:TRP:CH2	2.07	0.88
1:B:260:LEU:HD12	1:B:261:TRP:HD1	1.05	0.88
1:B:569:ALA:HA	1:B:572:THR:CB	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:89:PHE:CD2	1:A:146:PHE:HD2	1.92	0.88
1:A:126:VAL:O	1:A:166:PRO:CA	2.20	0.88
1:B:38:LEU:HD21	1:B:501:VAL:N	1.87	0.88
1:B:127:PRO:HA	1:B:130:ALA:HB3	1.56	0.88
1:B:215:LYS:N	1:B:220:LEU:HD13	1.87	0.88
1:B:235:THR:HB	1:B:239:ARG:NH2	1.88	0.88
1:B:356:SER:O	1:B:436:GLU:N	2.04	0.88
1:B:729:LEU:HA	1:B:732:LEU:HB3	1.55	0.88
1:A:52:LEU:HA	1:A:53:LEU:HD23	1.56	0.88
1:A:145:LEU:O	1:A:149:ILE:N	2.04	0.88
1:A:182:ASN:HA	1:A:484:PHE:HE2	1.38	0.88
1:A:281:ILE:HD12	1:A:282:ASP:CA	2.03	0.88
1:A:688:ALA:HA	1:A:691:VAL:CG2	2.04	0.88
1:B:190:VAL:HG13	1:B:323:GLU:HG3	1.53	0.88
1:B:205:VAL:HG11	1:B:232:ALA:CB	2.03	0.88
1:B:358:VAL:HG21	1:B:438:THR:CB	2.03	0.88
1:A:2:PHE:CE1	1:A:459:ILE:CG2	2.57	0.88
1:A:5:LYS:HB3	1:A:433:ASN:ND2	1.89	0.88
1:A:498:ASN:O	1:A:498:ASN:ND2	2.06	0.88
1:B:408:PHE:CZ	1:B:633:ILE:HD11	2.08	0.88
1:B:501:VAL:CG1	1:B:518:LEU:CB	2.48	0.88
1:B:723:ILE:HD12	1:B:726:TRP:HD1	1.36	0.88
1:A:38:LEU:HD23	1:A:39:GLN:N	1.88	0.88
1:A:117:ALA:O	1:A:118:ILE:HG22	1.73	0.88
1:A:428:GLY:N	1:A:429:THR:HA	1.87	0.88
1:A:540:ILE:CG2	1:A:541:ARG:NH2	2.37	0.88
1:B:456:MET:CA	1:B:459:ILE:HD12	2.02	0.88
1:B:501:VAL:HA	1:B:520:TRP:HD1	1.37	0.88
1:B:705:ARG:CB	1:B:708:ILE:HG13	2.04	0.88
1:B:729:LEU:CA	1:B:732:LEU:HD13	2.03	0.88
1:A:25:LEU:HG	1:A:26:LYS:NZ	1.88	0.88
1:A:248:ALA:O	1:A:251:SER:OG	1.91	0.88
1:B:527:ARG:HG3	1:B:534:ALA:O	1.72	0.88
1:B:587:PHE:CA	1:B:622:ARG:HD3	2.03	0.88
1:A:2:PHE:CE1	1:A:459:ILE:HG21	2.07	0.88
1:A:477:ASN:O	1:A:480:LYS:NZ	2.07	0.88
1:A:630:HIS:CG	1:A:737:LEU:HD11	2.09	0.88
1:B:220:LEU:HD23	1:B:224:LEU:HD13	1.56	0.88
1:B:502:VAL:O	1:B:518:LEU:HA	1.73	0.88
1:B:693:LEU:HG	1:B:697:ARG:HH12	1.38	0.88
1:A:272:SER:N	1:A:276:ARG:CZ	2.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:713:ASP:O	1:A:714:LEU:CB	2.21	0.88
1:B:13:ALA:HB3	1:B:16:LEU:HD22	1.54	0.88
1:B:126:VAL:HG13	1:B:127:PRO:HD3	1.56	0.88
1:B:146:PHE:O	1:B:150:THR:OG1	1.90	0.88
1:B:208:LYS:HA	1:B:208:LYS:CE	2.00	0.88
1:B:308:PHE:CZ	1:B:318:ILE:CG1	2.53	0.88
1:B:371:THR:CA	1:B:623:ILE:HG12	2.04	0.88
1:B:371:THR:H	1:B:623:ILE:CG1	1.86	0.88
1:B:372:ALA:CB	1:B:389:VAL:CG2	2.42	0.88
1:B:693:LEU:O	1:B:697:ARG:NH1	2.07	0.88
1:A:34:LEU:HD23	1:A:504:SER:HB2	1.56	0.87
1:A:108:ALA:HA	1:A:112:GLY:C	1.95	0.87
1:A:580:TRP:CH2	1:A:581:HIS:CE1	2.62	0.87
1:B:236:ALA:HA	1:B:239:ARG:CD	2.05	0.87
1:B:267:LYS:HZ3	1:B:268:GLU:H	1.22	0.87
1:B:302:GLY:HA3	1:B:303:ARG:NH1	1.86	0.87
1:B:403:PRO:HA	1:B:406:ASN:ND2	1.88	0.87
1:B:471:LEU:HD12	1:B:479:LEU:HD22	1.55	0.87
1:A:2:PHE:HZ	1:A:486:TYR:CZ	1.91	0.87
1:A:201:ALA:HA	1:A:204:SER:HB3	1.55	0.87
1:B:22:ILE:HG21	1:B:517:TYR:CE1	2.09	0.87
1:B:373:PHE:CD2	1:B:583:ALA:CA	2.39	0.87
1:A:271:PRO:HB3	1:A:276:ARG:NH1	1.87	0.87
1:A:544:GLU:HG2	1:A:547:GLU:CD	1.95	0.87
1:A:595:VAL:HG11	1:A:698:ILE:CD1	2.05	0.87
1:B:144:GLU:O	1:B:147:HIS:N	2.07	0.87
1:A:6:VAL:CA	1:A:9:LEU:HD13	2.04	0.87
1:A:10:ASN:C	1:A:14:ARG:HB2	1.95	0.87
1:A:441:PHE:CB	1:A:443:SER:OG	2.22	0.87
1:A:459:ILE:O	1:A:462:LEU:N	2.06	0.87
1:B:41:THR:OG1	1:B:43:THR:OG1	1.63	0.87
1:B:42:ARG:CZ	1:B:42:ARG:HB2	2.02	0.87
1:B:127:PRO:O	1:B:131:ILE:N	2.08	0.87
1:B:349:ILE:HD13	1:B:353:GLY:CA	2.03	0.87
1:B:401:LEU:HD13	1:B:737:LEU:HD11	1.54	0.87
1:B:593:TYR:OH	1:B:722:ARG:HG3	1.75	0.87
1:A:46:ALA:CB	1:A:334:ARG:HH22	1.88	0.87
1:A:232:ALA:CA	1:A:235:THR:HB	2.03	0.87
1:A:497:HIS:CD2	1:A:549:ILE:HD13	2.09	0.87
1:B:79:ALA:CB	1:B:80:LEU:HD23	2.05	0.87
1:B:102:ILE:HG13	1:B:103:TRP:CE3	2.10	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:362:GLU:OE2	1:B:635:MET:HE1	1.72	0.87
1:B:590:GLU:HB2	1:B:607:LYS:HD2	1.57	0.87
1:A:35:GLN:HB2	1:A:263:PRO:HB2	1.55	0.87
1:A:223:ALA:HB3	1:A:227:GLN:HG3	1.54	0.87
1:A:532:TYR:CE2	1:A:533:ASN:HB3	2.09	0.87
1:B:386:PHE:CE1	1:B:576:HIS:N	2.17	0.87
1:B:597:ILE:CG1	1:B:714:LEU:HA	2.05	0.87
1:B:623:ILE:HG23	1:B:625:LYS:CG	2.04	0.87
1:B:623:ILE:O	1:B:625:LYS:N	2.08	0.87
1:B:681:ILE:CB	1:B:731:VAL:HG11	2.05	0.87
1:A:540:ILE:HG13	1:A:551:TYR:CZ	2.09	0.87
1:B:449:TYR:CE2	1:B:630:HIS:HB3	2.09	0.87
1:B:501:VAL:HG22	1:B:520:TRP:CD1	2.09	0.87
1:A:126:VAL:O	1:A:166:PRO:HB3	1.73	0.87
1:A:189:CYS:C	1:A:323:GLU:HG3	1.95	0.87
1:A:396:ARG:HE	1:A:612:LEU:CD1	1.88	0.87
1:B:316:THR:HG22	1:B:320:TRP:NE1	1.87	0.87
1:B:363:ASP:HB3	1:B:441:PHE:HB3	1.56	0.87
1:B:377:LYS:CG	1:B:385:ARG:NH1	2.36	0.87
1:B:660:LYS:O	1:B:663:ILE:HG13	1.73	0.87
1:A:4:LEU:O	1:A:436:GLU:N	2.08	0.87
1:A:12:SER:CB	1:A:463:ARG:HH21	1.88	0.87
1:A:117:ALA:N	1:A:220:LEU:CD1	1.99	0.87
1:A:147:HIS:O	1:A:151:THR:CG2	2.21	0.87
1:A:435:ALA:N	1:A:437:MET:HE3	1.87	0.87
1:A:523:ARG:NH2	1:A:525:GLU:HA	1.90	0.87
1:A:535:ILE:CD1	1:A:540:ILE:HA	2.02	0.87
1:A:548:ALA:O	1:A:552:ASN:CB	2.21	0.87
1:A:590:GLU:CD	1:A:608:GLU:CD	2.31	0.87
1:A:684:THR:HG23	1:A:685:GLY:O	1.74	0.87
1:A:720:ARG:O	1:A:723:ILE:HG22	1.75	0.87
1:A:742:GLU:OE1	1:A:742:GLU:N	2.08	0.87
1:B:88:GLN:HE22	1:B:143:HIS:CD2	1.93	0.87
1:B:112:GLY:O	1:B:113:SER:HB2	1.73	0.87
1:B:245:ASP:OD2	1:B:248:ALA:N	2.08	0.87
1:B:384:GLN:HA	1:B:577:ILE:CG2	2.04	0.87
1:B:635:MET:O	1:B:638:SER:OG	1.92	0.87
1:B:655:ARG:HA	1:B:655:ARG:NE	1.88	0.87
1:A:36:LEU:CG	1:A:263:PRO:CA	2.47	0.86
1:A:42:ARG:CA	1:A:289:ALA:HB1	1.89	0.86
1:A:101:GLU:HB2	1:A:104:ARG:CD	2.03	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:235:THR:O	1:A:239:ARG:HG3	1.75	0.86
1:A:294:TYR:HE1	1:A:515:SER:HA	1.39	0.86
1:A:521:ASN:OD1	1:A:541:ARG:HA	1.75	0.86
1:A:747:THR:HA	1:A:750:LEU:HD21	1.56	0.86
1:B:47:SER:HB3	1:B:332:LYS:HE2	1.57	0.86
1:B:195:LEU:O	1:B:198:MET:HB3	1.73	0.86
1:B:666:ARG:HA	1:B:669:GLN:CD	1.95	0.86
1:A:6:VAL:HG11	1:A:531:GLY:H	1.36	0.86
1:A:180:TYR:HB3	1:A:331:PHE:HA	1.57	0.86
1:A:195:LEU:HD22	1:A:199:LEU:CD1	2.05	0.86
1:A:213:THR:HG1	1:A:215:LYS:HB3	1.38	0.86
1:A:268:GLU:OE2	1:A:269:LEU:HD12	1.73	0.86
1:A:421:TYR:CD1	1:A:422:GLU:N	2.42	0.86
1:A:520:TRP:CG	1:A:545:PRO:HG3	2.08	0.86
1:A:636:TRP:CH2	1:A:640:PHE:HE2	1.58	0.86
1:A:754:ASN:HB3	1:A:756:LEU:N	1.90	0.86
1:B:190:VAL:HG13	1:B:323:GLU:CB	2.04	0.86
1:B:501:VAL:HG13	1:B:520:TRP:CD1	2.10	0.86
1:A:298:VAL:CG2	1:A:515:SER:HB3	2.06	0.86
1:A:352:MET:N	1:A:353:GLY:CA	2.38	0.86
1:A:544:GLU:HG3	1:A:547:GLU:H	1.40	0.86
1:A:549:ILE:HD13	1:A:552:ASN:ND2	1.90	0.86
1:B:323:GLU:OE1	1:B:323:GLU:N	2.08	0.86
1:B:571:HIS:HA	1:B:574:SER:CB	2.05	0.86
1:B:594:SER:HB3	1:B:603:THR:N	1.88	0.86
1:B:673:THR:HG22	1:B:677:LYS:NZ	1.90	0.86
1:A:36:LEU:HB2	1:A:263:PRO:CA	2.03	0.86
1:A:502:VAL:HG22	1:A:503:VAL:O	1.73	0.86
1:A:8:ASP:O	1:A:12:SER:N	2.06	0.86
1:A:186:LEU:H	1:A:186:LEU:HD12	1.40	0.86
1:A:201:ALA:HA	1:A:204:SER:CB	2.05	0.86
1:A:272:SER:H	1:A:276:ARG:CZ	1.88	0.86
1:A:298:VAL:HG21	1:A:515:SER:CB	2.05	0.86
1:B:200:THR:HG23	1:B:201:ALA:H	1.39	0.86
1:A:30:SER:HB3	1:A:506:HIS:NE2	1.90	0.86
1:A:187:VAL:O	1:A:190:VAL:HG23	1.76	0.86
1:A:233:ALA:O	1:A:236:ALA:CB	2.21	0.86
1:B:130:ALA:O	1:B:133:GLU:HB3	1.76	0.86
1:B:308:PHE:CE2	1:B:318:ILE:HD13	2.10	0.86
1:B:575:ILE:HA	1:B:576:HIS:HB2	1.55	0.86
1:B:597:ILE:HG13	1:B:714:LEU:CA	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:607:LYS:C	1:B:609:PHE:CB	2.38	0.86
1:A:498:ASN:HB3	1:A:522:VAL:CG1	2.06	0.86
1:A:627:THR:OG1	1:A:628:VAL:N	2.08	0.86
1:A:694:ALA:HB2	1:A:726:TRP:CE3	2.09	0.86
1:B:397:MET:O	1:B:401:LEU:HG	1.75	0.86
1:B:568:LEU:O	1:B:572:THR:N	2.06	0.86
1:B:590:GLU:HA	1:B:607:LYS:HB3	1.58	0.86
1:B:684:THR:OG1	1:B:731:VAL:CG2	2.22	0.86
1:B:729:LEU:C	1:B:732:LEU:HB3	1.96	0.86
1:A:40:PHE:CE1	1:A:289:ALA:CB	2.39	0.86
1:A:259:ARG:CB	1:A:266:PRO:HB3	2.05	0.86
1:A:349:ILE:HD12	1:A:357:HIS:H	1.41	0.86
1:A:544:GLU:CG	1:A:547:GLU:H	1.89	0.86
1:B:44:PHE:CD1	1:B:333:LEU:HD22	2.11	0.86
1:B:183:PHE:HE2	1:B:184:TYR:HE1	1.18	0.86
1:B:356:SER:HB2	1:B:435:ALA:CA	2.06	0.86
1:B:364:TRP:HB3	1:B:410:VAL:HG11	1.58	0.86
1:A:73:TYR:O	1:A:77:GLY:N	2.08	0.86
1:A:86:VAL:CB	1:A:191:ARG:HG2	2.06	0.86
1:A:160:PRO:CB	1:A:208:LYS:HD3	2.05	0.86
1:B:45:SER:CB	1:B:180:TYR:HA	2.06	0.86
1:B:226:SER:CA	1:B:229:LEU:HB3	2.00	0.86
1:B:284:LEU:HD21	1:B:290:LEU:CD2	2.04	0.86
1:B:623:ILE:HD13	1:B:624:LEU:O	1.75	0.86
1:A:2:PHE:O	1:A:439:LEU:CD1	2.24	0.86
1:A:61:ILE:HG21	1:A:156:HIS:HD2	1.41	0.86
1:B:86:VAL:HG21	1:B:191:ARG:HG3	1.55	0.86
1:B:233:ALA:O	1:B:237:PHE:N	2.08	0.86
1:B:288:LEU:HD13	1:B:495:VAL:HG13	1.58	0.86
1:B:364:TRP:HA	1:B:364:TRP:CE3	2.11	0.86
1:B:408:PHE:HD1	1:B:413:PHE:CE2	1.80	0.86
1:B:437:MET:CE	1:B:550:ALA:HA	2.06	0.86
1:B:460:ALA:O	1:B:464:THR:HG22	1.76	0.86
1:B:745:ALA:HA	1:B:748:LYS:HD3	1.58	0.86
1:A:106:LEU:HD11	1:A:135:LEU:CD2	2.05	0.85
1:A:352:MET:SD	1:A:429:THR:OG1	2.34	0.85
1:A:365:GLN:H	1:A:562:GLN:CA	1.89	0.85
1:A:366:PHE:HZ	1:A:632:ILE:HG13	1.40	0.85
1:A:517:TYR:HE2	1:A:520:TRP:CE2	1.87	0.85
1:A:668:MET:O	1:A:672:VAL:HG23	1.74	0.85
1:B:164:ILE:HG23	1:B:165:LEU:H	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:317:ILE:HG23	1:B:320:TRP:CH2	2.11	0.85
1:B:366:PHE:HA	1:B:563:ALA:CB	2.06	0.85
1:B:600:LYS:HE3	1:B:707:LEU:HD21	1.57	0.85
1:B:675:LEU:O	1:B:678:ILE:HG13	1.75	0.85
1:B:702:MET:CG	1:B:714:LEU:CD1	2.53	0.85
1:A:24:GLU:HA	1:A:26:LYS:HE2	1.57	0.85
1:A:211:GLN:HG3	1:A:214:PHE:HD2	1.39	0.85
1:A:433:ASN:HB3	1:A:434:GLY:HA3	1.57	0.85
1:A:585:THR:HA	1:A:622:ARG:CZ	2.06	0.85
1:A:630:HIS:HA	1:A:737:LEU:CD1	2.06	0.85
1:B:14:ARG:NE	1:B:26:LYS:HD2	1.89	0.85
1:B:48:MET:HA	1:B:179:THR:CG2	2.05	0.85
1:B:117:ALA:HB1	1:B:222:PRO:HG2	1.58	0.85
1:B:156:HIS:NE2	1:B:157:VAL:CG2	2.25	0.85
1:B:186:LEU:O	1:B:190:VAL:HG22	1.76	0.85
1:B:568:LEU:HD12	1:B:572:THR:HG1	1.03	0.85
1:A:128:PRO:HB2	1:A:168:ALA:HB2	1.58	0.85
1:A:181:PRO:HB2	1:A:484:PHE:CE1	2.12	0.85
1:A:346:THR:HG1	1:A:358:VAL:HA	1.40	0.85
1:A:501:VAL:CB	1:A:518:LEU:HD12	2.06	0.85
1:B:43:THR:H	1:B:334:ARG:HB3	1.39	0.85
1:B:61:ILE:HD11	1:B:156:HIS:C	1.95	0.85
1:B:104:ARG:O	1:B:108:ALA:N	2.09	0.85
1:B:119:LYS:NZ	1:B:217:LYS:HB3	1.92	0.85
1:B:188:ASP:O	1:B:191:ARG:N	2.09	0.85
1:B:477:ASN:HA	1:B:480:LYS:HG3	1.56	0.85
1:A:36:LEU:N	1:A:263:PRO:CB	2.26	0.85
1:A:649:ALA:HA	1:A:652:ARG:HH11	1.39	0.85
1:B:222:PRO:CA	1:B:224:LEU:HG	2.03	0.85
1:B:544:GLU:O	1:B:547:GLU:HB2	1.76	0.85
1:A:31:VAL:CG1	1:A:32:GLY:H	1.83	0.85
1:A:630:HIS:CB	1:A:737:LEU:HD11	2.07	0.85
1:A:674:LEU:HA	1:A:677:LYS:CE	2.06	0.85
1:B:346:THR:OG1	1:B:359:VAL:HG21	1.75	0.85
1:B:347:SER:O	1:B:421:TYR:OH	1.93	0.85
1:A:116:ARG:C	1:A:220:LEU:CD1	2.26	0.85
1:A:126:VAL:O	1:A:166:PRO:CB	2.25	0.85
1:A:173:ARG:HG2	1:A:579:PRO:CG	2.05	0.85
1:B:13:ALA:HA	1:B:463:ARG:HA	1.56	0.85
1:B:272:SER:OG	1:B:275:LEU:N	2.07	0.85
1:A:176:ARG:NE	1:A:447:ARG:HD3	1.91	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:313:LEU:HA	1:A:315:SER:CB	2.06	0.85
1:A:461:ALA:O	1:A:465:GLY:N	2.09	0.85
1:A:572:THR:HA	1:A:575:ILE:O	1.77	0.85
1:B:118:ILE:H	1:B:222:PRO:CG	1.89	0.85
1:B:349:ILE:HD12	1:B:351:HIS:H	1.39	0.85
1:B:535:ILE:HG12	1:B:539:SER:C	1.97	0.85
1:A:3:ASN:ND2	1:A:439:LEU:HD11	1.90	0.85
1:A:173:ARG:CD	1:A:579:PRO:HB3	2.07	0.85
1:A:262:SER:HB3	1:A:516:LEU:CD2	2.05	0.85
1:A:272:SER:C	1:A:276:ARG:HE	1.80	0.85
1:A:422:GLU:HG3	1:B:116:ARG:HG2	1.59	0.85
1:A:717:GLY:O	1:A:720:ARG:HB3	1.75	0.85
1:B:264:SER:OG	1:B:266:PRO:HD2	1.76	0.85
1:A:59:GLY:O	1:A:61:ILE:HB	1.75	0.85
1:A:119:LYS:HB2	1:A:119:LYS:NZ	1.91	0.85
1:A:187:VAL:HA	1:A:190:VAL:CG2	2.06	0.85
1:A:553:LYS:HA	1:A:553:LYS:NZ	1.91	0.85
1:A:557:PRO:HB2	1:A:559:GLU:HB2	1.59	0.85
1:B:4:LEU:HD22	1:B:9:LEU:HA	1.56	0.85
1:B:96:THR:HG22	1:B:234:THR:HG22	1.59	0.85
1:B:373:PHE:HD2	1:B:583:ALA:HB1	1.08	0.85
1:B:705:ARG:HB2	1:B:708:ILE:CG1	2.05	0.85
1:A:60:ASN:CA	1:A:156:HIS:ND1	2.36	0.85
1:A:106:LEU:HD21	1:A:135:LEU:HD21	1.58	0.85
1:A:144:GLU:OE1	1:A:145:LEU:HG	1.76	0.85
1:A:294:TYR:OH	1:A:515:SER:N	2.10	0.85
1:B:118:ILE:HG12	1:B:119:LYS:N	1.91	0.85
1:B:176:ARG:NH1	1:B:446:GLU:HG2	1.92	0.85
1:B:182:ASN:O	1:B:186:LEU:HD12	1.77	0.85
1:B:222:PRO:HA	1:B:224:LEU:CG	2.05	0.85
1:B:451:LEU:HB3	1:B:453:ARG:CD	2.05	0.85
1:B:501:VAL:HA	1:B:519:VAL:O	1.77	0.85
1:B:597:ILE:CB	1:B:714:LEU:HD23	2.02	0.85
1:B:686:ILE:O	1:B:687:GLY:C	2.14	0.85
1:A:2:PHE:C	1:A:3:ASN:ND2	2.28	0.84
1:A:439:LEU:HD23	1:A:439:LEU:H	1.42	0.84
1:A:553:LYS:HA	1:A:553:LYS:CE	2.07	0.84
1:B:182:ASN:HB2	1:B:484:PHE:CD1	2.12	0.84
1:B:312:GLU:CD	1:B:313:LEU:HD23	1.97	0.84
1:B:642:GLU:O	1:B:645:ARG:HG2	1.76	0.84
1:B:732:LEU:HD23	1:B:733:GLN:N	1.91	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:128:PRO:CB	1:A:166:PRO:O	2.25	0.84
1:A:527:ARG:HH22	1:A:528:ILE:HD13	1.42	0.84
1:A:593:TYR:CD1	1:A:604:ALA:HB3	2.11	0.84
1:B:23:GLY:O	1:B:25:LEU:HD13	1.76	0.84
1:B:491:MET:O	1:B:495:VAL:N	2.08	0.84
1:B:534:ALA:N	1:B:535:ILE:HA	1.90	0.84
1:B:600:LYS:HB2	1:B:602:TYR:CE1	2.10	0.84
1:A:82:VAL:O	1:A:85:LEU:N	2.09	0.84
1:A:119:LYS:O	1:A:219:ALA:N	2.09	0.84
1:A:592:ALA:HA	1:A:605:GLU:HA	1.60	0.84
1:B:614:LEU:HD11	1:B:615:GLY:O	1.77	0.84
1:A:24:GLU:HG3	1:A:26:LYS:CG	2.07	0.84
1:A:553:LYS:CG	1:A:554:PRO:HD2	2.07	0.84
1:A:572:THR:O	1:A:574:SER:N	2.10	0.84
1:B:125:LYS:H	1:B:165:LEU:HD21	1.40	0.84
1:B:659:GLU:O	1:B:663:ILE:HG23	1.77	0.84
1:B:705:ARG:CB	1:B:707:LEU:CD1	2.54	0.84
1:A:282:ASP:CG	1:A:283:GLN:H	1.79	0.84
1:A:377:LYS:HA	1:A:385:ARG:HA	1.58	0.84
1:B:314:SER:HA	1:B:316:THR:N	1.92	0.84
1:B:607:LYS:HB2	1:B:608:GLU:O	1.76	0.84
1:A:185:ALA:HA	1:A:188:ASP:OD2	1.77	0.84
1:B:94:GLN:N	1:B:237:PHE:CE2	2.40	0.84
1:B:267:LYS:O	1:B:267:LYS:HD2	1.78	0.84
1:B:552:ASN:HA	1:B:553:LYS:CE	2.06	0.84
1:B:694:ALA:O	1:B:698:ILE:CG1	2.24	0.84
1:A:101:GLU:CA	1:A:104:ARG:HD3	2.05	0.84
1:A:493:TYR:CZ	1:A:549:ILE:HG21	2.12	0.84
1:B:24:GLU:OE2	1:B:27:ASN:N	2.08	0.84
1:B:114:SER:CB	1:B:117:ALA:HB2	2.07	0.84
1:B:724:ARG:HB2	1:B:724:ARG:NH1	1.92	0.84
1:B:724:ARG:O	1:B:727:ALA:HB3	1.78	0.84
1:A:36:LEU:N	1:A:502:VAL:HG21	1.91	0.84
1:A:106:LEU:CD1	1:A:135:LEU:HD22	2.07	0.84
1:B:93:HIS:CA	1:B:237:PHE:CE1	2.60	0.84
1:B:125:LYS:HA	1:B:128:PRO:CD	2.06	0.84
1:B:354:GLN:HB3	1:B:528:ILE:CB	2.07	0.84
1:B:358:VAL:HG21	1:B:438:THR:N	1.93	0.84
1:B:528:ILE:O	1:B:530:VAL:HG13	1.76	0.84
1:B:600:LYS:HG3	1:B:708:ILE:HG22	1.60	0.84
1:A:193:SER:HA	1:A:196:ARG:CB	2.05	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:549:ILE:CD1	1:A:552:ASN:ND2	2.39	0.84
1:B:49:THR:CG2	1:B:176:ARG:HG3	2.07	0.84
1:B:356:SER:HB2	1:B:435:ALA:HA	1.58	0.84
1:B:597:ILE:O	1:B:599:ASN:N	2.10	0.84
1:B:674:LEU:O	1:B:678:ILE:HG23	1.77	0.84
1:A:245:ASP:HB2	1:A:249:VAL:N	1.93	0.84
1:A:258:GLY:HA2	1:A:261:TRP:CE3	2.13	0.84
1:A:616:GLN:N	1:A:616:GLN:HE21	1.74	0.84
1:B:92:TYR:CE2	1:B:146:PHE:CD1	2.65	0.84
1:B:360:VAL:HG22	1:B:438:THR:O	1.76	0.84
1:B:377:LYS:HB2	1:B:385:ARG:CZ	2.06	0.84
1:A:41:THR:O	1:A:42:ARG:NH1	2.11	0.83
1:A:107:THR:OG1	1:A:226:SER:OG	1.95	0.83
1:A:208:LYS:HA	1:A:208:LYS:CE	2.05	0.83
1:A:303:ARG:CZ	1:A:303:ARG:HA	2.08	0.83
1:A:649:ALA:HA	1:A:652:ARG:CG	2.07	0.83
1:B:292:ILE:H	1:B:292:ILE:HD12	1.43	0.83
1:B:521:ASN:C	1:B:539:SER:HB3	1.95	0.83
1:A:36:LEU:N	1:A:263:PRO:HA	1.93	0.83
1:A:129:THR:O	1:A:132:LEU:CA	2.25	0.83
1:A:617:ARG:HD3	1:A:618:ARG:N	1.92	0.83
1:A:644:ASP:OD1	1:A:645:ARG:HG2	1.78	0.83
1:B:57:GLY:H	1:B:58:LYS:HZ3	1.26	0.83
1:B:101:GLU:O	1:B:105:LYS:HD2	1.78	0.83
1:B:190:VAL:HG13	1:B:323:GLU:HB3	1.59	0.83
1:B:193:SER:O	1:B:196:ARG:HB3	1.77	0.83
1:B:699:VAL:CA	1:B:702:MET:HB2	2.07	0.83
1:A:338:GLU:HA	1:A:341:SER:CB	2.09	0.83
1:A:357:HIS:O	1:A:358:VAL:HG23	1.77	0.83
1:A:417:ARG:CZ	1:A:642:GLU:OE1	2.25	0.83
1:A:476:SER:O	1:A:478:ASP:N	2.11	0.83
1:A:636:TRP:CZ3	1:A:640:PHE:CG	2.66	0.83
1:B:173:ARG:O	1:B:174:VAL:HG13	1.77	0.83
1:B:407:THR:HG21	1:B:408:PHE:HE2	1.36	0.83
1:B:408:PHE:HB3	1:B:632:ILE:HG12	1.60	0.83
1:B:623:ILE:O	1:B:624:LEU:C	2.12	0.83
1:A:18:GLN:NE2	1:A:18:GLN:O	2.12	0.83
1:A:128:PRO:CD	1:A:166:PRO:CB	2.51	0.83
1:A:602:TYR:HA	1:A:701:GLN:OE1	1.78	0.83
1:B:260:LEU:CG	1:B:285:ARG:HB3	2.09	0.83
1:B:445:VAL:HG21	1:B:635:MET:SD	2.19	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:128:PRO:HA	1:A:166:PRO:CB	2.06	0.83
1:A:211:GLN:HG3	1:A:214:PHE:CD2	2.14	0.83
1:A:374:THR:CG2	1:A:390:GLU:HG3	2.07	0.83
1:A:556:GLN:CD	1:A:557:PRO:HD2	1.98	0.83
1:B:53:LEU:HB2	1:B:173:ARG:HB2	1.57	0.83
1:B:126:VAL:HG12	1:B:127:PRO:CD	2.08	0.83
1:B:215:LYS:HA	1:B:215:LYS:HZ3	1.42	0.83
1:B:245:ASP:CG	1:B:248:ALA:HB2	1.98	0.83
1:B:371:THR:H	1:B:623:ILE:CD1	1.92	0.83
1:B:501:VAL:HG12	1:B:518:LEU:HB3	1.61	0.83
1:A:4:LEU:HB3	1:A:13:ALA:HB3	1.57	0.83
1:A:344:GLY:O	1:A:360:VAL:CG2	2.26	0.83
1:A:349:ILE:HD11	1:A:356:SER:N	1.92	0.83
1:B:44:PHE:CD1	1:B:333:LEU:HD13	2.12	0.83
1:B:455:PRO:HB2	1:B:459:ILE:HD11	1.59	0.83
1:B:481:ARG:HA	1:B:484:PHE:CD2	2.14	0.83
1:B:491:MET:HA	1:B:491:MET:CE	2.09	0.83
1:A:100:PRO:HG2	1:A:101:GLU:N	1.94	0.83
1:A:109:TYR:O	1:A:110:ILE:HD12	1.78	0.83
1:A:475:ALA:O	1:A:478:ASP:N	2.09	0.83
1:A:533:ASN:HD21	1:A:541:ARG:NH2	1.76	0.83
1:A:676:ARG:HA	1:A:679:GLU:HG2	1.60	0.83
1:B:183:PHE:O	1:B:186:LEU:N	2.12	0.83
1:B:677:LYS:O	1:B:681:ILE:HG13	1.77	0.83
1:A:38:LEU:HD23	1:A:39:GLN:C	1.98	0.83
1:A:44:PHE:CB	1:A:333:LEU:HD22	2.08	0.83
1:A:281:ILE:HD12	1:A:282:ASP:HA	1.59	0.83
1:B:102:ILE:HB	1:B:135:LEU:CD1	2.07	0.83
1:B:235:THR:HB	1:B:239:ARG:CZ	2.09	0.83
1:A:355:PRO:O	1:A:356:SER:OG	1.95	0.83
1:A:492:HIS:ND1	1:A:495:VAL:HG21	1.94	0.83
1:B:62:ASP:OD1	1:B:64:VAL:HG22	1.79	0.83
1:B:245:ASP:OD2	1:B:248:ALA:CA	2.27	0.83
1:B:358:VAL:HG11	1:B:438:THR:N	1.94	0.83
1:A:351:HIS:NE2	1:B:116:ARG:NH2	2.27	0.83
1:A:649:ALA:HA	1:A:652:ARG:HG2	1.60	0.83
1:A:744:GLU:O	1:A:747:THR:HG22	1.79	0.83
1:B:176:ARG:NE	1:B:176:ARG:O	2.12	0.83
1:B:284:LEU:HD11	1:B:290:LEU:HD22	1.61	0.83
1:B:307:ILE:HG22	1:B:309:SER:O	1.79	0.83
1:B:317:ILE:HG12	1:B:320:TRP:CE2	2.14	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:362:GLU:CD	1:B:635:MET:HE1	1.99	0.83
1:B:723:ILE:HD12	1:B:726:TRP:CD1	2.14	0.83
1:B:740:ARG:CG	1:B:741:SER:N	2.41	0.83
1:A:82:VAL:CA	1:A:85:LEU:HD23	2.07	0.82
1:A:422:GLU:CD	1:B:116:ARG:HG2	1.99	0.82
1:A:549:ILE:HD13	1:A:552:ASN:HD21	1.42	0.82
1:A:756:LEU:HG	1:A:756:LEU:O	1.79	0.82
1:B:235:THR:O	1:B:239:ARG:HG3	1.78	0.82
1:B:257:LEU:HD23	1:B:294:TYR:HB2	1.60	0.82
1:B:321:PHE:CD1	1:B:325:MET:CG	2.61	0.82
1:B:506:HIS:HA	1:B:507:GLN:HB3	1.59	0.82
1:A:388:ASP:CG	1:A:389:VAL:N	2.33	0.82
1:A:548:ALA:CA	1:A:551:TYR:HB2	2.09	0.82
1:A:643:ASP:O	1:A:646:THR:OG1	1.95	0.82
1:B:53:LEU:HD21	1:B:571:HIS:HE1	1.00	0.82
1:B:61:ILE:HD11	1:B:156:HIS:CA	2.08	0.82
1:B:560:VAL:HG23	1:B:562:GLN:N	1.93	0.82
1:B:568:LEU:O	1:B:571:HIS:N	2.12	0.82
1:B:630:HIS:CG	1:B:634:GLN:HE22	1.97	0.82
1:A:40:PHE:CE2	1:A:291:PHE:CB	2.62	0.82
1:A:56:VAL:HG13	1:A:66:TYR:CE1	2.13	0.82
1:A:234:THR:CA	1:A:237:PHE:HB3	2.08	0.82
1:B:280:GLY:O	1:B:283:GLN:NE2	2.11	0.82
1:B:404:ILE:HD12	1:B:737:LEU:HD21	1.61	0.82
1:B:453:ARG:HH11	1:B:453:ARG:N	1.78	0.82
1:B:614:LEU:HD13	1:B:615:GLY:H	0.74	0.82
1:B:628:VAL:O	1:B:631:ALA:HB3	1.79	0.82
1:A:73:TYR:CZ	1:A:143:HIS:CB	2.62	0.82
1:A:422:GLU:CG	1:B:116:ARG:HG2	2.08	0.82
1:A:520:TRP:HB3	1:A:542:THR:HG22	1.60	0.82
1:A:556:GLN:HA	1:A:556:GLN:HE21	1.44	0.82
1:B:275:LEU:HD23	1:B:278:THR:CB	2.09	0.82
1:B:372:ALA:O	1:B:373:PHE:HD1	1.62	0.82
1:B:570:ASN:HD22	1:B:571:HIS:CD2	1.98	0.82
1:B:661:LEU:HD23	1:B:662:ALA:N	1.94	0.82
1:A:89:PHE:CD2	1:A:146:PHE:CD2	2.66	0.82
1:A:493:TYR:CD1	1:A:549:ILE:HD12	2.15	0.82
1:A:623:ILE:HG23	1:A:624:LEU:O	1.80	0.82
1:B:216:ALA:HA	1:B:217:LYS:CG	2.09	0.82
1:B:302:GLY:C	1:B:303:ARG:NH1	2.33	0.82
1:B:526:LEU:HD23	1:B:527:ARG:CD	2.06	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:686:ILE:HG13	1:B:687:GLY:H	1.41	0.82
1:A:278:THR:OG1	1:A:281:ILE:N	2.12	0.82
1:A:350:ASP:N	1:A:353:GLY:O	2.13	0.82
1:A:414:VAL:HA	1:A:639:TRP:HZ3	1.44	0.82
1:A:455:PRO:HA	1:A:458:ALA:HB2	1.61	0.82
1:A:502:VAL:HA	1:A:503:VAL:CB	2.05	0.82
1:A:540:ILE:HG22	1:A:541:ARG:NH2	1.92	0.82
1:B:70:PHE:HA	1:B:85:LEU:HD11	1.62	0.82
1:B:103:TRP:CD2	1:B:230:ALA:HB3	2.14	0.82
1:B:314:SER:HA	1:B:316:THR:H	1.44	0.82
1:B:358:VAL:CG1	1:B:438:THR:H	1.93	0.82
1:B:732:LEU:HD23	1:B:733:GLN:CB	2.09	0.82
1:A:313:LEU:HG	1:A:317:ILE:HG23	1.61	0.82
1:B:274:ARG:H	1:B:274:ARG:NH1	1.77	0.82
1:B:288:LEU:HD21	1:B:292:ILE:HD11	1.61	0.82
1:B:404:ILE:CD1	1:B:735:MET:HG3	2.10	0.82
1:A:81:SER:O	1:A:84:GLU:HB2	1.78	0.82
1:A:288:LEU:O	1:A:291:PHE:N	2.13	0.82
1:A:329:SER:O	1:A:331:PHE:N	2.13	0.82
1:A:383:ASN:OD1	1:A:384:GLN:N	2.12	0.82
1:A:519:VAL:HG22	1:A:541:ARG:O	1.78	0.82
1:B:51:GLU:OE1	1:B:564:LYS:HB3	1.78	0.82
1:B:187:VAL:O	1:B:190:VAL:HG23	1.79	0.82
1:B:314:SER:CB	1:B:317:ILE:H	1.92	0.82
1:B:354:GLN:HB3	1:B:528:ILE:HB	1.60	0.82
1:B:364:TRP:HA	1:B:364:TRP:HE3	1.44	0.82
1:A:213:THR:OG1	1:A:215:LYS:HB3	1.79	0.82
1:A:624:LEU:HD12	1:A:626:PRO:HG3	1.60	0.82
1:A:653:THR:HA	1:A:655:ARG:HG2	1.58	0.82
1:B:125:LYS:HD2	1:B:163:PHE:CE1	2.14	0.82
1:B:126:VAL:CG1	1:B:127:PRO:CD	2.58	0.82
1:B:173:ARG:HG3	1:B:566:LEU:CD1	2.09	0.82
1:B:317:ILE:HG12	1:B:320:TRP:NE1	1.94	0.82
1:B:459:ILE:O	1:B:463:ARG:HG3	1.78	0.82
1:A:18:GLN:HA	1:A:21:ALA:CB	2.08	0.82
1:A:51:GLU:CA	1:A:174:VAL:HG21	2.10	0.82
1:A:128:PRO:HA	1:A:166:PRO:HG3	1.59	0.82
1:A:589:TYR:HE2	1:A:591:ASP:CB	1.93	0.82
1:B:44:PHE:HE1	1:B:332:LYS:C	1.83	0.82
1:B:216:ALA:HB1	1:B:217:LYS:C	2.00	0.82
1:B:651:ARG:CZ	1:B:660:LYS:HG2	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:733:GLN:NE2	1:B:738:LEU:O	2.13	0.82
1:A:189:CYS:O	1:A:193:SER:OG	1.97	0.81
1:A:544:GLU:OE1	1:A:546:LEU:N	2.13	0.81
1:B:54:TRP:HA	1:B:54:TRP:HE3	1.40	0.81
1:B:245:ASP:OD2	1:B:248:ALA:CB	2.29	0.81
1:B:581:HIS:CD2	1:B:582:GLU:H	1.97	0.81
1:B:623:ILE:CD1	1:B:625:LYS:CA	2.58	0.81
1:A:698:ILE:O	1:A:702:MET:HE3	1.78	0.81
1:A:729:LEU:CD1	1:A:733:GLN:CG	1.91	0.81
1:B:131:ILE:HG13	1:B:134:GLN:HG2	1.61	0.81
1:B:317:ILE:HA	1:B:320:TRP:CG	2.15	0.81
1:B:317:ILE:HG23	1:B:320:TRP:CZ3	2.15	0.81
1:B:451:LEU:O	1:B:453:ARG:NH1	2.13	0.81
1:B:477:ASN:OD1	1:B:480:LYS:HB2	1.79	0.81
1:A:6:VAL:HA	1:A:9:LEU:CD1	2.08	0.81
1:A:40:PHE:HB3	1:A:288:LEU:HB3	1.62	0.81
1:A:44:PHE:HB2	1:A:333:LEU:HD22	1.61	0.81
1:A:53:LEU:HA	1:A:172:TYR:O	1.81	0.81
1:A:104:ARG:HB3	1:A:104:ARG:NH1	1.96	0.81
1:A:232:ALA:C	1:A:236:ALA:H	1.83	0.81
1:A:250:VAL:CB	1:A:253:VAL:HG13	2.07	0.81
1:A:272:SER:C	1:A:276:ARG:NE	2.34	0.81
1:A:272:SER:HB2	1:A:275:LEU:HD13	1.61	0.81
1:A:307:ILE:HD12	1:A:308:PHE:CD1	2.15	0.81
1:A:365:GLN:N	1:A:562:GLN:HA	1.92	0.81
1:A:366:PHE:CZ	1:A:632:ILE:HG13	2.16	0.81
1:A:510:ALA:CB	1:A:511:ALA:HB2	2.11	0.81
1:A:541:ARG:HD2	1:A:542:THR:HA	1.61	0.81
1:A:553:LYS:HG3	1:A:554:PRO:CD	2.11	0.81
1:B:52:LEU:O	1:B:174:VAL:N	2.13	0.81
1:B:55:GLU:OE1	1:B:169:ALA:HB1	1.80	0.81
1:B:686:ILE:O	1:B:688:ALA:N	2.11	0.81
1:B:712:SER:OG	1:B:715:HIS:N	2.13	0.81
1:A:314:SER:HB2	1:A:318:ILE:C	2.00	0.81
1:A:436:GLU:CD	1:A:439:LEU:HD13	2.01	0.81
1:A:630:HIS:HA	1:A:737:LEU:HG	1.62	0.81
1:B:128:PRO:CA	1:B:131:ILE:HG22	2.09	0.81
1:B:582:GLU:OE1	1:B:624:LEU:CD1	2.28	0.81
1:B:642:GLU:CG	1:B:645:ARG:NH1	2.43	0.81
1:A:99:ASN:CG	1:A:101:GLU:OE2	2.19	0.81
1:A:177:THR:HG22	1:A:178:ALA:H	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:293:ALA:HA	1:A:296:ASP:OD2	1.81	0.81
1:A:454:ASP:O	1:A:457:VAL:HG12	1.80	0.81
1:B:156:HIS:NE2	1:B:210:LEU:HD22	1.91	0.81
1:B:243:ASN:ND2	1:B:244:PHE:HB2	1.95	0.81
1:B:535:ILE:HD13	1:B:540:ILE:HA	1.62	0.81
1:B:580:TRP:HH2	1:B:583:ALA:HB2	1.40	0.81
1:A:15:GLY:HA2	1:A:20:PHE:HD2	1.46	0.81
1:A:232:ALA:O	1:A:236:ALA:HB2	1.80	0.81
1:A:365:GLN:CG	1:A:367:ALA:H	1.93	0.81
1:B:36:LEU:H	1:B:36:LEU:HD12	1.46	0.81
1:B:89:PHE:CD1	1:B:146:PHE:CD2	2.68	0.81
1:A:10:ASN:OD1	1:A:14:ARG:HG2	1.80	0.81
1:A:128:PRO:HB3	1:A:166:PRO:O	1.81	0.81
1:A:477:ASN:O	1:A:480:LYS:HB3	1.81	0.81
1:A:729:LEU:HD21	1:A:738:LEU:CD1	2.10	0.81
1:A:736:GLY:O	1:A:737:LEU:HD22	1.81	0.81
1:B:45:SER:CA	1:B:181:PRO:HD3	2.10	0.81
1:B:58:LYS:NZ	1:B:66:TYR:OH	2.11	0.81
1:B:109:TYR:CZ	1:B:131:ILE:HG12	2.14	0.81
1:B:173:ARG:CD	1:B:174:VAL:N	2.40	0.81
1:B:357:HIS:NE2	1:B:420:VAL:HG21	1.96	0.81
1:B:600:LYS:CE	1:B:707:LEU:HD21	2.10	0.81
1:B:693:LEU:HG	1:B:697:ARG:CZ	2.11	0.81
1:A:52:LEU:CD1	1:A:53:LEU:H	1.94	0.81
1:A:345:GLN:HA	1:A:360:VAL:CG1	2.11	0.81
1:A:432:SER:O	1:A:433:ASN:ND2	2.12	0.81
1:A:546:LEU:HD12	1:A:546:LEU:O	1.79	0.81
1:B:118:ILE:HG12	1:B:119:LYS:H	1.45	0.81
1:B:268:GLU:OE1	1:B:268:GLU:HA	1.79	0.81
1:A:4:LEU:H	1:A:436:GLU:HB2	1.44	0.81
1:A:16:LEU:CD1	1:A:463:ARG:HA	2.10	0.81
1:A:36:LEU:N	1:A:263:PRO:CA	2.43	0.81
1:A:334:ARG:HG2	1:A:334:ARG:HH11	1.45	0.81
1:A:462:LEU:CD1	1:A:483:MET:HG3	2.09	0.81
1:A:520:TRP:HB2	1:A:542:THR:O	1.81	0.81
1:A:748:LYS:NZ	1:A:748:LYS:O	2.14	0.81
1:B:53:LEU:HA	1:B:173:ARG:CA	2.09	0.81
1:B:267:LYS:NZ	1:B:268:GLU:H	1.79	0.81
1:B:317:ILE:HG23	1:B:320:TRP:CZ2	2.16	0.81
1:B:580:TRP:CE3	1:B:581:HIS:HA	2.15	0.81
1:B:700:ASP:O	1:B:704:GLY:N	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:131:ILE:O	1:A:132:LEU:C	2.20	0.81
1:A:176:ARG:HH11	1:A:446:GLU:HG2	1.43	0.81
1:A:347:SER:O	1:A:358:VAL:HG22	1.81	0.81
1:B:249:VAL:HG23	1:B:318:ILE:CG2	2.09	0.81
1:B:526:LEU:HD23	1:B:527:ARG:NH1	1.96	0.81
1:B:686:ILE:CG1	1:B:687:GLY:N	2.43	0.81
1:A:89:PHE:CE2	1:A:146:PHE:CD2	2.63	0.80
1:A:161:LEU:HD13	1:A:162:GLY:N	1.96	0.80
1:A:161:LEU:C	1:A:163:PHE:H	1.83	0.80
1:A:349:ILE:HD11	1:A:355:PRO:C	2.01	0.80
1:A:735:MET:CG	1:A:737:LEU:H	1.92	0.80
1:B:92:TYR:CZ	1:B:139:ALA:HB1	2.16	0.80
1:B:251:SER:O	1:B:255:THR:HG23	1.82	0.80
1:B:348:ALA:CB	1:B:355:PRO:HA	2.02	0.80
1:A:183:PHE:HE2	1:A:184:TYR:CE1	1.95	0.80
1:A:687:GLY:O	1:A:690:ALA:N	2.14	0.80
1:A:744:GLU:C	1:A:747:THR:HG22	2.00	0.80
1:B:35:GLN:CB	1:B:502:VAL:HB	2.08	0.80
1:B:269:LEU:HD13	1:B:271:PRO:HD2	1.62	0.80
1:B:408:PHE:CZ	1:B:633:ILE:CD1	2.65	0.80
1:B:501:VAL:HG12	1:B:502:VAL:N	1.94	0.80
1:B:519:VAL:CG1	1:B:543:PRO:HB3	2.08	0.80
1:B:580:TRP:CD2	1:B:581:HIS:HA	2.17	0.80
1:B:642:GLU:CG	1:B:645:ARG:CZ	2.58	0.80
1:A:40:PHE:HD2	1:A:288:LEU:O	1.64	0.80
1:A:173:ARG:HG2	1:A:579:PRO:CB	2.11	0.80
1:A:229:LEU:O	1:A:233:ALA:CB	2.24	0.80
1:A:525:GLU:OE2	1:A:527:ARG:HB3	1.80	0.80
1:A:690:ALA:O	1:A:693:LEU:N	2.15	0.80
1:B:14:ARG:HG2	1:B:14:ARG:HH11	1.47	0.80
1:B:253:VAL:O	1:B:256:ILE:HG22	1.82	0.80
1:B:412:ALA:O	1:B:415:LYS:HB3	1.81	0.80
1:B:535:ILE:HG23	1:B:537:GLY:N	1.95	0.80
1:B:600:LYS:HG3	1:B:708:ILE:CG2	2.12	0.80
1:B:610:GLU:C	1:B:612:LEU:H	1.83	0.80
1:A:309:SER:OG	1:A:313:LEU:O	1.99	0.80
1:A:593:TYR:HD1	1:A:604:ALA:HB3	1.45	0.80
1:B:13:ALA:O	1:B:16:LEU:HB2	1.82	0.80
1:B:53:LEU:HD23	1:B:53:LEU:O	1.80	0.80
1:B:124:GLY:H	1:B:165:LEU:HD11	1.47	0.80
1:B:226:SER:O	1:B:229:LEU:HB3	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:527:ARG:CZ	1:A:528:ILE:H	1.93	0.80
1:A:553:LYS:CD	1:A:554:PRO:HD2	2.12	0.80
1:A:630:HIS:HA	1:A:737:LEU:CG	2.10	0.80
1:B:456:MET:CE	1:B:637:TYR:OH	2.29	0.80
1:A:49:THR:C	1:A:50:SER:OG	2.10	0.80
1:A:181:PRO:HB2	1:A:484:PHE:CD1	2.16	0.80
1:A:250:VAL:HB	1:A:253:VAL:HG13	1.62	0.80
1:A:289:ALA:C	1:A:291:PHE:H	1.85	0.80
1:A:583:ALA:HA	1:A:625:LYS:HZ1	1.47	0.80
1:B:5:LYS:HD3	1:B:435:ALA:O	1.80	0.80
1:B:82:VAL:N	1:B:188:ASP:OD2	2.15	0.80
1:B:260:LEU:O	1:B:260:LEU:HD13	1.82	0.80
1:A:282:ASP:CG	1:A:283:GLN:N	2.33	0.80
1:A:355:PRO:HG3	1:A:529:PRO:HG3	1.61	0.80
1:B:5:LYS:HA	1:B:435:ALA:H	1.46	0.80
1:B:43:THR:HG23	1:B:287:ASN:OD1	1.81	0.80
1:B:75:GLN:OE1	1:B:177:THR:HB	1.81	0.80
1:B:106:LEU:HD11	1:B:154:VAL:HG11	1.64	0.80
1:B:201:ALA:O	1:B:205:VAL:N	2.14	0.80
1:B:321:PHE:HZ	1:B:326:SER:HB3	1.45	0.80
1:B:371:THR:N	1:B:623:ILE:CG1	2.45	0.80
1:B:705:ARG:HA	1:B:705:ARG:HE	1.45	0.80
1:B:742:GLU:O	1:B:745:ALA:N	2.13	0.80
1:A:524:THR:CG2	1:A:540:ILE:HG12	2.12	0.80
1:B:479:LEU:HG	1:B:483:MET:SD	2.22	0.80
1:B:533:ASN:C	1:B:535:ILE:HD12	2.02	0.80
1:B:740:ARG:O	1:B:742:GLU:N	2.13	0.80
1:A:158:LEU:C	1:A:163:PHE:O	2.20	0.80
1:A:237:PHE:HA	1:A:240:SER:HB3	1.64	0.80
1:A:547:GLU:HA	1:A:550:ALA:CB	2.11	0.80
1:A:718:ILE:CA	1:A:721:HIS:HB2	2.09	0.80
1:B:4:LEU:CA	1:B:5:LYS:HG2	2.08	0.80
1:B:181:PRO:HB3	1:B:331:PHE:CZ	2.16	0.80
1:B:356:SER:HB2	1:B:435:ALA:HB2	1.63	0.80
1:B:409:ALA:O	1:B:412:ALA:HB3	1.80	0.80
1:B:716:VAL:N	1:B:720:ARG:HH21	1.80	0.80
1:A:22:ILE:C	1:A:299:LYS:CD	2.48	0.80
1:A:45:SER:HB3	1:A:333:LEU:N	1.97	0.80
1:A:343:ILE:HG13	1:A:344:GLY:H	1.47	0.80
1:B:396:ARG:HD2	1:B:612:LEU:HD22	0.88	0.80
1:A:42:ARG:O	1:A:289:ALA:HB1	1.61	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:288:LEU:O	1:A:289:ALA:C	2.20	0.79
1:A:347:SER:HB2	1:A:554:PRO:HB3	1.63	0.79
1:A:723:ILE:HG23	1:A:724:ARG:CD	2.06	0.79
1:B:204:SER:O	1:B:208:LYS:N	2.16	0.79
1:B:317:ILE:HG23	1:B:320:TRP:CE2	2.17	0.79
1:B:462:LEU:CD1	1:B:463:ARG:CG	2.60	0.79
1:B:575:ILE:CB	1:B:576:HIS:HB2	2.12	0.79
1:B:587:PHE:N	1:B:621:VAL:O	2.15	0.79
1:A:59:GLY:HA3	1:A:155:CYS:SG	2.22	0.79
1:A:234:THR:CA	1:A:237:PHE:HB2	2.08	0.79
1:A:676:ARG:HG2	1:A:676:ARG:HH11	1.48	0.79
1:B:43:THR:H	1:B:334:ARG:CB	1.95	0.79
1:B:159:SER:HB2	1:B:161:LEU:O	1.81	0.79
1:B:221:ALA:HB1	1:B:222:PRO:HD2	1.65	0.79
1:B:274:ARG:HH11	1:B:274:ARG:N	1.79	0.79
1:B:364:TRP:CE2	1:B:442:PRO:HB3	2.18	0.79
1:A:20:PHE:O	1:A:21:ALA:C	2.17	0.79
1:A:108:ALA:O	1:A:112:GLY:O	2.00	0.79
1:A:234:THR:HG23	1:A:237:PHE:CG	2.17	0.79
1:A:263:PRO:HG3	1:A:502:VAL:CG2	2.11	0.79
1:A:365:GLN:HG2	1:A:367:ALA:N	1.93	0.79
1:A:671:ALA:HA	1:A:674:LEU:CD1	2.13	0.79
1:B:38:LEU:CD2	1:B:501:VAL:HB	2.12	0.79
1:B:71:PHE:CZ	1:B:330:PRO:HD3	2.17	0.79
1:B:128:PRO:HB3	1:B:131:ILE:HG21	1.63	0.79
1:B:323:GLU:O	1:B:326:SER:N	2.15	0.79
1:B:403:PRO:O	1:B:406:ASN:N	2.16	0.79
1:A:86:VAL:HB	1:A:191:ARG:HD2	1.63	0.79
1:A:183:PHE:CE2	1:A:184:TYR:HE1	1.99	0.79
1:A:433:ASN:HB3	1:A:434:GLY:CA	2.12	0.79
1:A:461:ALA:O	1:A:463:ARG:C	2.19	0.79
1:B:195:LEU:CD2	1:B:199:LEU:HD11	2.12	0.79
1:B:373:PHE:CG	1:B:583:ALA:HB1	2.11	0.79
1:B:643:ASP:CG	1:B:666:ARG:HG2	2.01	0.79
1:B:723:ILE:HA	1:B:726:TRP:HB2	1.64	0.79
1:A:68:ARG:HH12	1:A:329:SER:HA	1.48	0.79
1:A:133:GLU:CD	1:A:136:ARG:CB	2.51	0.79
1:A:523:ARG:CD	1:A:524:THR:C	2.50	0.79
1:B:178:ALA:HB2	1:B:447:ARG:NH2	1.98	0.79
1:B:260:LEU:HD13	1:B:261:TRP:CD1	2.17	0.79
1:B:674:LEU:CD1	1:B:749:VAL:HG11	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:740:ARG:HG3	1:B:741:SER:N	1.97	0.79
1:A:42:ARG:HG2	1:A:43:THR:O	1.82	0.79
1:A:53:LEU:HD13	1:A:171:VAL:HG13	1.63	0.79
1:A:430:VAL:CG1	1:A:529:PRO:HB3	2.13	0.79
1:A:700:ASP:O	1:A:704:GLY:N	2.15	0.79
1:B:40:PHE:HB3	1:B:42:ARG:HG3	1.65	0.79
1:B:284:LEU:O	1:B:287:ASN:HB2	1.82	0.79
1:B:294:TYR:CE2	1:B:516:LEU:HD11	2.17	0.79
1:B:633:ILE:CG2	1:B:738:LEU:CD1	2.61	0.79
1:A:64:VAL:HG11	1:A:196:ARG:HE	1.46	0.79
1:A:387:LEU:HD12	1:A:572:THR:CG2	2.11	0.79
1:B:58:LYS:HG2	1:B:59:GLY:N	1.97	0.79
1:B:371:THR:H	1:B:623:ILE:HD11	1.47	0.79
1:B:372:ALA:HB2	1:B:389:VAL:HG23	1.60	0.79
1:B:733:GLN:HG3	1:B:734:MET:CE	2.13	0.79
1:A:3:ASN:OD1	1:A:439:LEU:HD21	1.82	0.79
1:A:49:THR:HG23	1:A:50:SER:H	1.48	0.79
1:A:201:ALA:O	1:A:204:SER:N	2.15	0.79
1:A:387:LEU:CD1	1:A:572:THR:HG21	2.13	0.79
1:A:472:GLU:HG2	1:A:474:ARG:O	1.81	0.79
1:B:214:PHE:HA	1:B:220:LEU:CD2	2.08	0.79
1:B:234:THR:O	1:B:237:PHE:N	2.16	0.79
1:B:358:VAL:CG1	1:B:437:MET:HA	2.13	0.79
1:B:545:PRO:O	1:B:546:LEU:C	2.18	0.79
1:B:607:LYS:CB	1:B:608:GLU:C	2.46	0.79
1:B:633:ILE:CG2	1:B:738:LEU:CD2	2.29	0.79
1:B:695:GLN:CA	1:B:698:ILE:HG13	2.12	0.79
1:A:71:PHE:O	1:A:74:ALA:HB3	1.82	0.79
1:A:221:ALA:CB	1:A:225:ILE:HG13	2.11	0.79
1:A:377:LYS:HG2	1:A:379:ALA:O	1.82	0.79
1:A:544:GLU:CD	1:A:547:GLU:H	1.86	0.79
1:B:38:LEU:HD21	1:B:501:VAL:CA	2.12	0.79
1:B:45:SER:OG	1:B:180:TYR:HA	1.83	0.79
1:B:163:PHE:CB	1:B:164:ILE:HG22	2.07	0.79
1:B:183:PHE:HA	1:B:186:LEU:HD13	0.82	0.79
1:B:424:VAL:CG2	1:B:430:VAL:CG1	2.59	0.79
1:B:702:MET:SD	1:B:714:LEU:CG	2.71	0.79
1:A:232:ALA:HA	1:A:235:THR:CB	2.09	0.79
1:A:498:ASN:ND2	1:A:522:VAL:HA	1.98	0.79
1:A:544:GLU:HG3	1:A:547:GLU:N	1.98	0.79
1:A:649:ALA:CA	1:A:652:ARG:HG2	2.13	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:73:TYR:HA	1:B:76:ALA:HB3	1.65	0.79
1:B:363:ASP:H	1:B:441:PHE:HA	1.48	0.79
1:A:127:PRO:CG	1:A:130:ALA:C	2.50	0.78
1:A:186:LEU:O	1:A:190:VAL:HG22	1.83	0.78
1:A:197:ARG:C	1:A:199:LEU:N	2.33	0.78
1:A:377:LYS:HB2	1:A:385:ARG:HG2	0.89	0.78
1:A:544:GLU:HB3	1:A:545:PRO:HA	1.65	0.78
1:A:644:ASP:OD1	1:A:645:ARG:N	2.15	0.78
1:A:742:GLU:O	1:A:746:LEU:HB2	1.82	0.78
1:B:70:PHE:HA	1:B:85:LEU:CD1	2.12	0.78
1:B:83:ASP:HA	1:B:191:ARG:CG	2.12	0.78
1:B:97:ALA:HB2	1:B:234:THR:HB	1.63	0.78
1:B:156:HIS:CD2	1:B:157:VAL:N	2.44	0.78
1:B:423:ALA:O	1:B:430:VAL:HG22	1.83	0.78
1:B:444:VAL:O	1:B:486:TYR:OH	2.01	0.78
1:B:471:LEU:HD11	1:B:479:LEU:CD2	2.11	0.78
1:B:652:ARG:HA	1:B:652:ARG:HE	1.47	0.78
1:B:667:ARG:O	1:B:670:ASN:HB3	1.83	0.78
1:B:694:ALA:HA	1:B:697:ARG:NH2	1.98	0.78
1:A:224:LEU:HD12	1:A:224:LEU:O	1.82	0.78
1:B:125:LYS:N	1:B:165:LEU:CD2	2.43	0.78
1:B:205:VAL:O	1:B:209:MET:N	2.15	0.78
1:B:294:TYR:HE2	1:B:516:LEU:HD21	1.48	0.78
1:B:309:SER:CB	1:B:315:SER:HA	2.13	0.78
1:B:400:THR:O	1:B:403:PRO:HD2	1.82	0.78
1:B:497:HIS:HB2	1:B:549:ILE:CD1	1.77	0.78
1:B:519:VAL:HG12	1:B:543:PRO:CA	2.12	0.78
1:B:640:PHE:HA	1:B:670:ASN:OD1	1.83	0.78
1:A:56:VAL:HG22	1:A:66:TYR:CE1	2.17	0.78
1:A:187:VAL:HG13	1:A:247:ASN:CA	2.12	0.78
1:A:338:GLU:CA	1:A:341:SER:HB2	2.11	0.78
1:A:459:ILE:HG12	1:A:486:TYR:HE2	1.47	0.78
1:A:553:LYS:HE3	1:A:554:PRO:CD	2.12	0.78
1:A:600:LYS:HB2	1:A:602:TYR:HE1	1.48	0.78
1:A:718:ILE:O	1:A:721:HIS:CA	2.31	0.78
1:B:245:ASP:CG	1:B:248:ALA:CB	2.51	0.78
1:B:354:GLN:CB	1:B:528:ILE:CB	2.56	0.78
1:B:384:GLN:O	1:B:385:ARG:HG2	1.83	0.78
1:B:416:ASN:HD21	1:B:673:THR:HG23	1.49	0.78
1:B:505:GLU:HB2	1:B:507:GLN:N	1.99	0.78
1:A:128:PRO:HA	1:A:166:PRO:HG2	0.79	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:396:ARG:HE	1:A:612:LEU:HD13	1.48	0.78
1:A:408:PHE:CD1	1:A:636:TRP:HE1	1.40	0.78
1:B:14:ARG:HD3	1:B:465:GLY:HA3	1.65	0.78
1:B:607:LYS:HB2	1:B:608:GLU:CA	2.12	0.78
1:B:693:LEU:HG	1:B:697:ARG:NH2	1.99	0.78
1:A:8:ASP:HA	1:A:11:GLY:HA3	1.65	0.78
1:A:51:GLU:CA	1:A:174:VAL:HG11	2.14	0.78
1:A:84:GLU:O	1:A:88:GLN:HG3	1.84	0.78
1:A:306:VAL:C	1:A:307:ILE:HG13	2.03	0.78
1:A:523:ARG:CD	1:A:524:THR:O	2.31	0.78
1:B:4:LEU:C	1:B:436:GLU:HA	2.04	0.78
1:B:4:LEU:O	1:B:437:MET:N	2.16	0.78
1:B:14:ARG:CB	1:B:465:GLY:HA2	2.13	0.78
1:B:22:ILE:HG21	1:B:517:TYR:CD1	2.19	0.78
1:B:70:PHE:CD2	1:B:195:LEU:HD13	2.19	0.78
1:B:364:TRP:HZ2	1:B:628:VAL:HG22	1.49	0.78
1:B:376:VAL:H	1:B:386:PHE:C	1.86	0.78
1:B:399:ALA:O	1:B:402:ALA:HB3	1.82	0.78
1:B:642:GLU:HG2	1:B:645:ARG:NH2	1.99	0.78
1:A:61:ILE:HG12	1:A:62:ASP:H	1.49	0.78
1:A:129:THR:C	1:A:132:LEU:H	1.87	0.78
1:A:189:CYS:HB3	1:A:323:GLU:CG	2.13	0.78
1:A:303:ARG:NH1	1:A:513:GLN:HG3	1.96	0.78
1:A:315:SER:CA	1:A:318:ILE:HB	1.76	0.78
1:A:393:ILE:CG2	1:A:612:LEU:CD1	2.62	0.78
1:B:313:LEU:HA	1:B:316:THR:CB	2.13	0.78
1:B:342:TYR:HD2	1:B:559:GLU:CG	1.96	0.78
1:B:400:THR:HG21	1:B:686:ILE:HG23	1.65	0.78
1:A:51:GLU:HA	1:A:174:VAL:CB	2.12	0.78
1:A:52:LEU:CA	1:A:174:VAL:HG13	2.14	0.78
1:A:212:ALA:HB1	1:A:221:ALA:HA	1.66	0.78
1:B:681:ILE:HG21	1:B:731:VAL:CG1	1.83	0.78
1:A:85:LEU:HD23	1:A:85:LEU:H	1.47	0.78
1:A:117:ALA:O	1:A:220:LEU:HA	1.61	0.78
1:A:117:ALA:O	1:A:118:ILE:CG2	2.31	0.78
1:A:352:MET:CB	1:A:355:PRO:HD2	2.08	0.78
1:A:411:SER:O	1:A:415:LYS:HG2	1.84	0.78
1:A:589:TYR:HE2	1:A:591:ASP:HB2	1.49	0.78
1:B:180:TYR:CE2	1:B:492:HIS:ND1	2.49	0.78
1:B:183:PHE:CE1	1:B:250:VAL:CG1	2.66	0.78
1:B:393:ILE:HA	1:B:612:LEU:CD1	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:583:ALA:HA	1:B:624:LEU:CB	2.11	0.78
1:B:670:ASN:ND2	1:B:674:LEU:HD12	1.97	0.78
1:A:86:VAL:HG21	1:A:191:ARG:CG	2.13	0.78
1:A:116:ARG:O	1:A:220:LEU:HD11	1.83	0.78
1:A:237:PHE:HA	1:A:240:SER:CB	2.14	0.78
1:A:345:GLN:CD	1:A:346:THR:H	1.84	0.78
1:A:404:ILE:CD1	1:A:681:ILE:HD12	2.14	0.78
1:A:562:GLN:NE2	1:A:562:GLN:O	2.16	0.78
1:A:598:ARG:HD2	1:A:598:ARG:N	1.93	0.78
1:A:652:ARG:HH11	1:A:652:ARG:HG3	1.48	0.78
1:A:670:ASN:O	1:A:674:LEU:HG	1.83	0.78
1:B:100:PRO:O	1:B:103:TRP:HB2	1.84	0.78
1:B:343:ILE:HD11	1:B:493:TYR:CZ	2.19	0.78
1:B:345:GLN:O	1:B:554:PRO:HB3	1.84	0.78
1:B:471:LEU:CD1	1:B:479:LEU:CD2	2.60	0.78
1:B:478:ASP:OD1	1:B:479:LEU:N	2.17	0.78
1:B:521:ASN:CB	1:B:541:ARG:HD3	2.12	0.78
1:B:650:ALA:O	1:B:653:THR:OG1	2.00	0.78
1:A:101:GLU:O	1:A:103:TRP:N	2.15	0.78
1:A:404:ILE:HD13	1:A:681:ILE:HD12	1.65	0.78
1:B:71:PHE:CE2	1:B:330:PRO:HD3	2.18	0.78
1:B:98:CYS:O	1:B:100:PRO:HD2	1.83	0.78
1:B:303:ARG:NH1	1:B:303:ARG:HG3	1.97	0.78
1:B:721:HIS:HD1	1:B:721:HIS:H	1.31	0.78
1:A:4:LEU:HD13	1:A:9:LEU:HB2	1.65	0.77
1:A:4:LEU:HG	1:A:436:GLU:CG	2.15	0.77
1:A:161:LEU:HD23	1:A:211:GLN:HB2	1.64	0.77
1:A:448:ASP:HB2	1:A:455:PRO:CG	2.14	0.77
1:B:37:PRO:O	1:B:261:TRP:CZ3	2.37	0.77
1:B:102:ILE:HG13	1:B:103:TRP:CZ3	2.19	0.77
1:B:173:ARG:HG3	1:B:173:ARG:HH11	1.47	0.77
1:B:535:ILE:CD1	1:B:540:ILE:HA	2.14	0.77
1:B:633:ILE:HG21	1:B:738:LEU:CG	2.13	0.77
1:A:258:GLY:HA3	1:A:294:TYR:HD2	1.50	0.77
1:A:685:GLY:C	1:A:687:GLY:H	1.86	0.77
1:A:688:ALA:CA	1:A:691:VAL:HG23	2.13	0.77
1:A:717:GLY:C	1:A:720:ARG:H	1.86	0.77
1:B:49:THR:O	1:B:564:LYS:HD2	1.83	0.77
1:B:57:GLY:H	1:B:58:LYS:NZ	1.82	0.77
1:B:276:ARG:HG2	1:B:276:ARG:HH11	1.49	0.77
1:A:404:ILE:HD11	1:A:681:ILE:CG2	2.09	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:542:THR:HG23	1:A:544:GLU:CB	2.14	0.77
1:B:171:VAL:CG1	1:B:577:ILE:CA	2.63	0.77
1:B:269:LEU:CD1	1:B:271:PRO:HD2	2.13	0.77
1:B:607:LYS:HB2	1:B:609:PHE:HD1	1.47	0.77
1:A:292:ILE:HG23	1:A:295:GLN:HB3	1.51	0.77
1:A:303:ARG:NE	1:A:304:ALA:H	1.82	0.77
1:A:520:TRP:H	1:A:542:THR:H	1.27	0.77
1:A:630:HIS:O	1:A:633:ILE:HG13	1.85	0.77
1:B:14:ARG:HB2	1:B:465:GLY:CA	2.15	0.77
1:B:46:ALA:HB3	1:B:179:THR:C	2.04	0.77
1:B:180:TYR:CE2	1:B:492:HIS:HE1	2.03	0.77
1:B:271:PRO:C	1:B:276:ARG:HD2	2.03	0.77
1:B:368:LYS:HD3	1:B:369:GLU:OE2	1.84	0.77
1:A:126:VAL:CG2	1:A:165:LEU:CB	2.18	0.77
1:A:327:GLU:HA	1:A:331:PHE:HZ	1.50	0.77
1:B:69:LEU:HD12	1:B:172:TYR:CE1	2.19	0.77
1:B:123:VAL:CA	1:B:164:ILE:HG21	2.11	0.77
1:B:196:ARG:NE	1:B:196:ARG:O	2.17	0.77
1:B:255:THR:HG21	1:B:303:ARG:O	1.83	0.77
1:B:366:PHE:CZ	1:B:632:ILE:HG21	2.18	0.77
1:A:2:PHE:CZ	1:A:486:TYR:HE2	1.96	0.77
1:A:189:CYS:CB	1:A:323:GLU:HG3	2.14	0.77
1:A:274:ARG:HG2	1:A:274:ARG:HH11	1.50	0.77
1:A:689:SER:C	1:A:693:LEU:HD22	2.04	0.77
1:B:302:GLY:C	1:B:303:ARG:HH11	1.85	0.77
1:B:340:THR:O	1:B:342:TYR:CE1	2.37	0.77
1:B:408:PHE:CE1	1:B:413:PHE:CZ	2.70	0.77
1:B:535:ILE:HG12	1:B:540:ILE:CA	2.14	0.77
1:A:448:ASP:HB3	1:A:453:ARG:CB	2.15	0.77
1:A:502:VAL:CA	1:A:503:VAL:HG12	2.13	0.77
1:A:520:TRP:CD2	1:A:545:PRO:CG	2.63	0.77
1:B:83:ASP:O	1:B:87:ASN:HB3	1.85	0.77
1:B:365:GLN:HA	1:B:365:GLN:HE21	1.48	0.77
1:B:453:ARG:HD2	1:B:453:ARG:H	1.48	0.77
1:B:568:LEU:HD11	1:B:572:THR:OG1	1.79	0.77
1:A:86:VAL:CB	1:A:191:ARG:CG	2.63	0.77
1:A:218:GLY:HA2	1:A:219:ALA:HB3	1.67	0.77
1:A:344:GLY:CA	1:A:361:TYR:H	1.98	0.77
1:A:417:ARG:HB2	1:A:639:TRP:CE3	2.19	0.77
1:A:468:ASP:O	1:A:469:GLU:HG3	1.84	0.77
1:A:558:SER:OG	1:A:559:GLU:N	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:107:THR:HA	1:B:110:ILE:CG1	2.14	0.77
1:B:125:LYS:HD2	1:B:163:PHE:CD1	2.19	0.77
1:B:288:LEU:HD22	1:B:495:VAL:HG11	1.65	0.77
1:B:623:ILE:CD1	1:B:625:LYS:HA	2.15	0.77
1:A:42:ARG:CG	1:A:336:ILE:HD11	2.10	0.77
1:A:92:TYR:CE1	1:A:150:THR:HG21	2.20	0.77
1:A:117:ALA:C	1:A:118:ILE:HG22	2.03	0.77
1:A:236:ALA:O	1:A:240:SER:HB3	1.84	0.77
1:A:334:ARG:HG3	1:A:335:PRO:CD	2.14	0.77
1:A:441:PHE:HB3	1:A:443:SER:HG	1.50	0.77
1:A:507:GLN:CD	1:A:508:GLY:H	1.88	0.77
1:A:588:ALA:HB1	1:A:589:TYR:HA	1.66	0.77
1:A:752:ASP:C	1:A:754:ASN:O	2.23	0.77
1:B:103:TRP:HE3	1:B:103:TRP:H	1.33	0.77
1:B:113:SER:HB3	1:B:115:ASN:CG	2.05	0.77
1:B:525:GLU:OE2	1:B:551:TYR:HB3	1.85	0.77
1:B:586:GLU:O	1:B:622:ARG:CD	2.33	0.77
1:B:721:HIS:HD2	1:B:757:GLY:HA2	1.49	0.77
1:A:4:LEU:HG	1:A:436:GLU:HG2	1.67	0.77
1:A:245:ASP:CB	1:A:249:VAL:N	2.46	0.77
1:A:263:PRO:HB3	1:A:502:VAL:HG21	1.67	0.77
1:A:337:ASN:ND2	1:A:340:THR:OG1	2.18	0.77
1:A:361:TYR:CD2	1:A:410:VAL:HG21	2.19	0.77
1:A:421:TYR:HD1	1:A:422:GLU:H	1.29	0.77
1:A:676:ARG:HG2	1:A:676:ARG:NH1	2.00	0.77
1:B:128:PRO:CB	1:B:131:ILE:CG2	2.59	0.77
1:B:210:LEU:HD12	1:B:211:GLN:N	2.00	0.77
1:B:703:ALA:HA	1:B:708:ILE:CD1	2.15	0.77
1:B:712:SER:HG	1:B:715:HIS:CE1	2.02	0.77
1:A:278:THR:HG21	1:A:281:ILE:HG23	1.66	0.76
1:A:436:GLU:OE1	1:A:439:LEU:HD22	1.85	0.76
1:A:584:SER:HB2	1:A:625:LYS:HE3	1.67	0.76
1:A:600:LYS:HB2	1:A:602:TYR:CE1	2.20	0.76
1:B:42:ARG:HH22	1:B:339:THR:H	1.33	0.76
1:B:358:VAL:HG21	1:B:438:THR:CA	2.15	0.76
1:B:592:ALA:HA	1:B:726:TRP:CH2	2.19	0.76
1:B:614:LEU:HD12	1:B:615:GLY:O	1.82	0.76
1:B:673:THR:O	1:B:677:LYS:NZ	2.17	0.76
1:B:701:GLN:OE1	1:B:701:GLN:HA	1.85	0.76
1:A:16:LEU:CD2	1:A:462:LEU:HB3	2.15	0.76
1:A:180:TYR:CD1	1:A:331:PHE:CB	2.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:288:LEU:O	1:A:290:LEU:N	2.18	0.76
1:A:370:ILE:HD12	1:A:371:THR:N	2.01	0.76
1:A:417:ARG:O	1:A:420:VAL:HB	1.85	0.76
1:B:23:GLY:C	1:B:506:HIS:HE1	1.88	0.76
1:B:177:THR:O	1:B:447:ARG:HD3	1.85	0.76
1:B:404:ILE:HG21	1:B:737:LEU:HD21	0.96	0.76
1:B:501:VAL:O	1:B:502:VAL:HG12	1.83	0.76
1:A:30:SER:HB3	1:A:506:HIS:CE1	2.20	0.76
1:A:133:GLU:CD	1:A:136:ARG:HB3	2.05	0.76
1:A:359:VAL:CA	1:A:438:THR:HA	2.08	0.76
1:A:359:VAL:HG13	1:A:438:THR:C	2.06	0.76
1:A:422:GLU:HG3	1:B:116:ARG:CG	2.14	0.76
1:A:520:TRP:CB	1:A:542:THR:HG22	2.15	0.76
1:A:541:ARG:HD3	1:A:543:PRO:HD3	1.66	0.76
1:A:624:LEU:HD12	1:A:626:PRO:CG	2.15	0.76
1:B:411:SER:O	1:B:414:VAL:HG13	1.86	0.76
1:A:38:LEU:CD2	1:A:39:GLN:O	2.33	0.76
1:A:44:PHE:O	1:A:334:ARG:HB3	1.84	0.76
1:A:602:TYR:HE2	1:A:702:MET:SD	2.09	0.76
1:B:84:GLU:C	1:B:87:ASN:HD22	1.87	0.76
1:B:221:ALA:CB	1:B:222:PRO:CD	2.61	0.76
1:B:361:TYR:CG	1:B:414:VAL:HG11	2.19	0.76
1:B:383:ASN:O	1:B:384:GLN:C	2.19	0.76
1:B:686:ILE:CG1	1:B:687:GLY:H	1.98	0.76
1:B:725:ILE:CD1	1:B:728:GLY:HA3	2.13	0.76
1:A:176:ARG:CZ	1:A:446:GLU:CB	2.63	0.76
1:B:144:GLU:C	1:B:145:LEU:HD12	2.05	0.76
1:B:656:ASP:OD1	1:B:658:ALA:N	2.17	0.76
1:B:744:GLU:O	1:B:747:THR:OG1	2.03	0.76
1:A:233:ALA:O	1:A:237:PHE:N	2.19	0.76
1:A:594:SER:HA	1:A:603:THR:HA	1.67	0.76
1:A:732:LEU:O	1:A:732:LEU:HG	1.86	0.76
1:B:80:LEU:CG	1:B:84:GLU:HG3	2.14	0.76
1:B:145:LEU:HD13	1:B:146:PHE:CE1	2.21	0.76
1:B:259:ARG:CG	1:B:269:LEU:HD22	2.10	0.76
1:B:408:PHE:CB	1:B:632:ILE:CD1	2.64	0.76
1:A:45:SER:CB	1:A:332:LYS:HA	2.14	0.76
1:A:472:GLU:HB3	1:A:475:ALA:CB	2.11	0.76
1:B:501:VAL:HG22	1:B:520:TRP:NE1	1.99	0.76
1:B:506:HIS:CA	1:B:507:GLN:HB3	2.14	0.76
1:B:702:MET:SD	1:B:714:LEU:CB	2.73	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3:ASN:CG	1:A:439:LEU:HD21	2.05	0.76
1:A:24:GLU:HG3	1:A:26:LYS:HB3	1.66	0.76
1:A:50:SER:HA	1:A:564:LYS:NZ	2.01	0.76
1:A:135:LEU:HD12	1:A:151:THR:CG2	2.15	0.76
1:A:234:THR:O	1:A:237:PHE:CA	2.33	0.76
1:A:354:GLN:OE1	1:A:354:GLN:N	2.16	0.76
1:B:144:GLU:O	1:B:147:HIS:HB3	1.85	0.76
1:B:249:VAL:CG2	1:B:318:ILE:HG22	2.12	0.76
1:B:673:THR:O	1:B:677:LYS:HG2	1.85	0.76
1:A:31:VAL:H	1:A:506:HIS:CE1	2.03	0.76
1:A:230:ALA:HA	1:A:233:ALA:HB3	1.66	0.76
1:A:410:VAL:O	1:A:412:ALA:N	2.19	0.76
1:A:740:ARG:HH11	1:A:740:ARG:HG3	1.51	0.76
1:B:44:PHE:CE1	1:B:333:LEU:HA	2.21	0.76
1:B:86:VAL:CG2	1:B:191:ARG:HG3	2.15	0.76
1:B:94:GLN:O	1:B:96:THR:OG1	2.03	0.76
1:B:400:THR:HG21	1:B:686:ILE:HD13	1.67	0.76
1:B:534:ALA:N	1:B:535:ILE:CA	2.48	0.76
1:B:44:PHE:CE2	1:B:324:ALA:HB2	2.21	0.76
1:B:425:SER:HB3	1:B:429:THR:CG2	2.15	0.76
1:B:618:ARG:N	1:B:619:GLU:HA	2.00	0.76
1:B:647:LEU:HD23	1:B:663:ILE:CB	2.14	0.76
1:A:21:ALA:HA	1:A:487:TYR:OH	1.86	0.75
1:A:86:VAL:CB	1:A:191:ARG:HD3	2.08	0.75
1:A:329:SER:C	1:A:331:PHE:H	1.89	0.75
1:A:337:ASN:HD21	1:A:496:ALA:CB	1.98	0.75
1:A:555:ILE:HG12	1:A:556:GLN:N	1.99	0.75
1:B:46:ALA:N	1:B:179:THR:O	2.20	0.75
1:B:51:GLU:H	1:B:564:LYS:HE3	1.50	0.75
1:B:628:VAL:O	1:B:631:ALA:CA	2.34	0.75
1:B:729:LEU:HA	1:B:732:LEU:CB	2.15	0.75
1:A:189:CYS:HB3	1:A:323:GLU:HG3	1.66	0.75
1:A:356:SER:N	1:A:437:MET:HE1	1.99	0.75
1:A:500:GLU:HG2	1:A:522:VAL:H	1.50	0.75
1:A:607:LYS:N	1:A:610:GLU:OE1	2.19	0.75
1:B:190:VAL:CG1	1:B:323:GLU:HG3	2.15	0.75
1:B:369:GLU:O	1:B:370:ILE:HG12	1.86	0.75
1:B:378:LEU:HD12	1:B:379:ALA:N	2.00	0.75
1:B:424:VAL:HG23	1:B:430:VAL:CG1	2.14	0.75
1:B:481:ARG:O	1:B:485:ASN:ND2	2.19	0.75
1:B:491:MET:HA	1:B:491:MET:HE3	1.66	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:685:GLY:O	1:B:686:ILE:C	2.21	0.75
1:B:715:HIS:HB3	1:B:719:ASN:ND2	2.01	0.75
1:A:591:ASP:N	1:A:606:VAL:HG12	2.00	0.75
1:B:80:LEU:HD23	1:B:80:LEU:N	2.01	0.75
1:B:125:LYS:C	1:B:165:LEU:CD2	2.55	0.75
1:B:125:LYS:HZ2	1:B:163:PHE:HE1	1.34	0.75
1:B:228:HIS:O	1:B:229:LEU:C	2.24	0.75
1:B:363:ASP:H	1:B:441:PHE:CB	1.99	0.75
1:B:523:ARG:HB2	1:B:523:ARG:CZ	2.15	0.75
1:B:581:HIS:HD2	1:B:582:GLU:H	1.30	0.75
1:A:259:ARG:CD	1:A:269:LEU:HD13	2.16	0.75
1:A:343:ILE:N	1:A:559:GLU:HG2	2.00	0.75
1:A:479:LEU:N	1:A:479:LEU:HD12	2.01	0.75
1:B:35:GLN:HB3	1:B:502:VAL:CB	2.12	0.75
1:B:259:ARG:CA	1:B:269:LEU:HD11	2.16	0.75
1:A:360:VAL:HG22	1:A:438:THR:HG23	1.69	0.75
1:A:366:PHE:HZ	1:A:632:ILE:CG1	1.97	0.75
1:A:410:VAL:CG1	1:A:411:SER:N	2.48	0.75
1:A:535:ILE:HG13	1:A:540:ILE:HD13	1.68	0.75
1:A:623:ILE:HD12	1:A:624:LEU:H	1.51	0.75
1:A:630:HIS:CB	1:A:737:LEU:CD2	2.58	0.75
1:A:666:ARG:CA	1:A:669:GLN:OE1	2.34	0.75
1:A:716:VAL:O	1:A:720:ARG:HB2	1.85	0.75
1:B:275:LEU:HD23	1:B:278:THR:OG1	1.86	0.75
1:B:309:SER:HB2	1:B:315:SER:HA	1.67	0.75
1:B:371:THR:N	1:B:623:ILE:HG13	2.01	0.75
1:B:373:PHE:CE2	1:B:624:LEU:HB2	2.22	0.75
1:B:491:MET:O	1:B:495:VAL:HG23	1.86	0.75
1:B:501:VAL:O	1:B:502:VAL:CG1	2.34	0.75
1:B:540:ILE:HD11	1:B:552:ASN:OD1	1.85	0.75
1:B:607:LYS:HB3	1:B:608:GLU:CB	2.17	0.75
1:B:674:LEU:HD13	1:B:749:VAL:HG21	1.67	0.75
1:A:59:GLY:CA	1:A:155:CYS:HB3	2.15	0.75
1:A:283:GLN:CA	1:A:286:SER:HB3	2.13	0.75
1:A:307:ILE:CD1	1:A:308:PHE:HD1	1.99	0.75
1:A:352:MET:HB3	1:A:429:THR:OG1	1.86	0.75
1:A:429:THR:HG23	1:A:430:VAL:HG13	1.68	0.75
1:A:442:PRO:CD	1:A:443:SER:N	2.47	0.75
1:B:14:ARG:O	1:B:17:THR:OG1	2.02	0.75
1:B:158:LEU:HA	1:B:159:SER:C	2.06	0.75
1:B:245:ASP:OD1	1:B:247:ASN:N	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:426:GLN:CG	1:B:427:ARG:HA	2.16	0.75
1:B:462:LEU:CD1	1:B:463:ARG:HG2	2.17	0.75
1:A:64:VAL:HG22	1:A:200:THR:OG1	1.85	0.75
1:A:170:TYR:CD1	1:A:576:HIS:CE1	2.74	0.75
1:A:197:ARG:O	1:A:198:MET:C	2.24	0.75
1:A:344:GLY:HA3	1:A:361:TYR:N	1.99	0.75
1:A:359:VAL:HG13	1:A:439:LEU:N	2.01	0.75
1:B:292:ILE:O	1:B:295:GLN:HG2	1.86	0.75
1:B:366:PHE:HB3	1:B:628:VAL:CG1	2.17	0.75
1:B:504:SER:O	1:B:516:LEU:HA	1.87	0.75
1:B:607:LYS:CB	1:B:608:GLU:HB3	2.14	0.75
1:A:271:PRO:HB3	1:A:276:ARG:HH12	1.50	0.75
1:A:341:SER:O	1:A:559:GLU:HG3	1.86	0.75
1:A:387:LEU:HD11	1:A:577:ILE:CG2	2.17	0.75
1:B:119:LYS:HZ3	1:B:217:LYS:HB3	1.50	0.75
1:B:254:LEU:CD2	1:B:297:MET:CB	2.26	0.75
1:B:276:ARG:C	1:B:285:ARG:HH22	1.90	0.75
1:B:309:SER:OG	1:B:315:SER:HA	1.87	0.75
1:B:696:SER:O	1:B:699:VAL:HB	1.85	0.75
1:A:81:SER:O	1:A:84:GLU:N	2.20	0.75
1:A:148:HIS:O	1:A:151:THR:OG1	2.02	0.75
1:A:377:LYS:HE2	1:A:377:LYS:C	2.08	0.75
1:A:595:VAL:O	1:A:602:TYR:HB2	1.87	0.75
1:B:38:LEU:HD11	1:B:501:VAL:C	2.07	0.75
1:B:163:PHE:HB3	1:B:164:ILE:CB	2.16	0.75
1:B:289:ALA:HA	1:B:292:ILE:CD1	2.11	0.75
1:B:560:VAL:C	1:B:561:LEU:HD23	2.07	0.75
1:B:719:ASN:CG	1:B:720:ARG:N	2.40	0.75
1:A:29:LEU:N	1:A:29:LEU:HD22	2.02	0.74
1:A:86:VAL:HG21	1:A:191:ARG:HG2	1.67	0.74
1:A:108:ALA:HA	1:A:112:GLY:HA3	1.66	0.74
1:A:148:HIS:NE2	1:A:578:TRP:CH2	2.55	0.74
1:A:607:LYS:N	1:A:607:LYS:HE2	2.02	0.74
1:A:678:ILE:CG2	1:A:725:ILE:HD13	2.16	0.74
1:B:36:LEU:CB	1:B:37:PRO:HD2	2.16	0.74
1:B:42:ARG:CD	1:B:336:ILE:HA	2.16	0.74
1:B:43:THR:HG21	1:B:287:ASN:HB3	1.69	0.74
1:B:228:HIS:HD2	1:B:231:ASN:HD22	1.32	0.74
1:B:342:TYR:CD2	1:B:559:GLU:HG2	2.16	0.74
1:B:520:TRP:CE3	1:B:548:ALA:HB1	2.21	0.74
1:B:535:ILE:HG12	1:B:540:ILE:N	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:723:ILE:HG13	1:B:723:ILE:O	1.87	0.74
1:A:5:LYS:N	1:A:5:LYS:HD2	2.02	0.74
1:A:82:VAL:HA	1:A:85:LEU:HD21	1.68	0.74
1:A:102:ILE:HD13	1:A:138:LEU:HD23	1.67	0.74
1:A:523:ARG:CZ	1:A:525:GLU:HA	2.17	0.74
1:A:598:ARG:CD	1:A:598:ARG:H	1.96	0.74
1:A:661:LEU:H	1:A:661:LEU:CD2	1.99	0.74
1:B:43:THR:CG2	1:B:289:ALA:H	2.00	0.74
1:B:260:LEU:HD11	1:B:261:TRP:NE1	2.01	0.74
1:B:366:PHE:HB3	1:B:628:VAL:HG11	1.68	0.74
1:A:82:VAL:N	1:A:85:LEU:CD2	2.50	0.74
1:A:127:PRO:N	1:A:166:PRO:HB3	2.01	0.74
1:A:467:VAL:O	1:A:469:GLU:HG2	1.87	0.74
1:A:522:VAL:HG23	1:A:523:ARG:N	2.01	0.74
1:A:683:THR:HG22	1:A:684:THR:N	2.02	0.74
1:B:255:THR:HG22	1:B:303:ARG:O	1.88	0.74
1:B:276:ARG:HG2	1:B:276:ARG:NH1	2.01	0.74
1:B:394:SER:HA	1:B:397:MET:HE3	1.67	0.74
1:B:570:ASN:ND2	1:B:571:HIS:CD2	2.51	0.74
1:B:666:ARG:O	1:B:669:GLN:HG2	1.86	0.74
1:A:81:SER:C	1:A:85:LEU:HD21	2.08	0.74
1:A:624:LEU:CD1	1:A:626:PRO:HG3	2.17	0.74
1:B:9:LEU:H	1:B:9:LEU:CD1	1.96	0.74
1:B:125:LYS:N	1:B:165:LEU:CD1	2.47	0.74
1:B:226:SER:HA	1:B:229:LEU:HB2	0.78	0.74
1:B:363:ASP:H	1:B:441:PHE:CA	2.00	0.74
1:B:725:ILE:HD13	1:B:728:GLY:CA	2.12	0.74
1:A:115:ASN:OD1	1:A:116:ARG:N	2.20	0.74
1:A:128:PRO:CD	1:A:129:THR:HB	2.17	0.74
1:A:144:GLU:HB2	1:A:147:HIS:HB2	0.93	0.74
1:A:303:ARG:HD3	1:A:304:ALA:O	1.86	0.74
1:A:688:ALA:O	1:A:691:VAL:HG23	1.86	0.74
1:A:716:VAL:CA	1:A:720:ARG:HB2	2.18	0.74
1:B:36:LEU:HB2	1:B:37:PRO:HD2	1.68	0.74
1:B:69:LEU:HG	1:B:172:TYR:CD2	2.22	0.74
1:B:236:ALA:HA	1:B:239:ARG:HG3	1.69	0.74
1:B:506:HIS:CB	1:B:517:TYR:CZ	2.28	0.74
1:B:522:VAL:HG11	1:B:552:ASN:ND2	2.02	0.74
1:B:673:THR:HG22	1:B:677:LYS:HZ2	1.50	0.74
1:A:160:PRO:HB2	1:A:208:LYS:HD3	1.68	0.74
1:A:169:ALA:O	1:A:575:ILE:HG12	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:351:HIS:C	1:A:353:GLY:HA2	2.08	0.74
1:A:422:GLU:CG	1:B:116:ARG:CG	2.65	0.74
1:A:542:THR:HG23	1:A:544:GLU:HB3	1.67	0.74
1:A:752:ASP:CA	1:A:754:ASN:O	2.36	0.74
1:B:5:LYS:CA	1:B:435:ALA:HB3	2.17	0.74
1:B:8:ASP:OD1	1:B:9:LEU:C	2.26	0.74
1:B:38:LEU:HD22	1:B:38:LEU:H	1.53	0.74
1:B:132:LEU:HD13	1:B:151:THR:HA	1.70	0.74
1:B:317:ILE:HD13	1:B:320:TRP:CZ2	2.23	0.74
1:B:522:VAL:CG2	1:B:540:ILE:HD12	2.17	0.74
1:B:602:TYR:HB3	1:B:701:GLN:CB	2.17	0.74
1:A:24:GLU:HA	1:A:26:LYS:CE	2.17	0.74
1:A:190:VAL:HG11	1:A:249:VAL:CG2	2.17	0.74
1:A:444:VAL:HG23	1:A:445:VAL:H	1.52	0.74
1:A:661:LEU:HA	1:A:664:ASP:OD2	1.87	0.74
1:A:685:GLY:HA2	1:A:688:ALA:H	1.51	0.74
1:B:83:ASP:OD2	1:B:191:ARG:HD2	1.87	0.74
1:B:92:TYR:CD2	1:B:146:PHE:CD2	2.76	0.74
1:B:125:LYS:HG3	1:B:128:PRO:HG2	1.69	0.74
1:B:127:PRO:C	1:B:128:PRO:CA	2.56	0.74
1:B:628:VAL:O	1:B:631:ALA:CB	2.35	0.74
1:B:743:ALA:O	1:B:747:THR:HG23	1.88	0.74
1:A:170:TYR:CE1	1:A:576:HIS:NE2	2.48	0.74
1:A:259:ARG:HB3	1:A:266:PRO:CB	2.17	0.74
1:A:345:GLN:CA	1:A:360:VAL:HG12	2.17	0.74
1:A:503:VAL:HB	1:A:519:VAL:N	2.03	0.74
1:A:636:TRP:CH2	1:A:640:PHE:CZ	2.66	0.74
1:A:651:ARG:HG2	1:A:660:LYS:HB3	1.70	0.74
1:B:38:LEU:CD1	1:B:502:VAL:HA	2.18	0.74
1:B:115:ASN:OD1	1:B:116:ARG:N	2.21	0.74
1:B:196:ARG:HG3	1:B:196:ARG:NH1	2.02	0.74
1:B:214:PHE:CA	1:B:220:LEU:HD22	2.11	0.74
1:B:257:LEU:HD23	1:B:294:TYR:CB	2.16	0.74
1:B:361:TYR:CB	1:B:414:VAL:HG11	2.17	0.74
1:B:361:TYR:HB3	1:B:414:VAL:HG21	1.68	0.74
1:B:597:ILE:HD13	1:B:713:ASP:OD2	1.88	0.74
1:B:691:VAL:O	1:B:695:GLN:HB2	1.88	0.74
1:A:42:ARG:CG	1:A:336:ILE:CD1	2.56	0.74
1:A:44:PHE:CB	1:A:334:ARG:H	2.01	0.74
1:A:349:ILE:HG13	1:A:350:ASP:N	2.03	0.74
1:A:527:ARG:NH1	1:A:528:ILE:H	1.85	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:358:VAL:CG2	1:B:438:THR:HG22	2.17	0.74
1:A:36:LEU:HG	1:A:263:PRO:C	2.08	0.74
1:A:101:GLU:HA	1:A:104:ARG:NE	2.02	0.74
1:A:160:PRO:HB3	1:A:208:LYS:HD3	1.67	0.74
1:A:305:GLU:O	1:A:307:ILE:HG13	1.88	0.74
1:A:345:GLN:HB3	1:A:556:GLN:NE2	2.02	0.74
1:B:14:ARG:NH1	1:B:17:THR:HG21	2.03	0.74
1:B:44:PHE:CZ	1:B:324:ALA:HB1	2.23	0.74
1:B:124:GLY:H	1:B:165:LEU:CD1	2.00	0.74
1:B:124:GLY:N	1:B:165:LEU:HD11	2.03	0.74
1:B:225:ILE:O	1:B:228:HIS:N	2.21	0.74
1:B:401:LEU:HA	1:B:404:ILE:CD1	2.17	0.74
1:B:719:ASN:CG	1:B:720:ARG:H	1.91	0.74
1:A:18:GLN:CD	1:A:520:TRP:HH2	1.91	0.73
1:A:198:MET:O	1:A:201:ALA:HB3	1.88	0.73
1:A:420:VAL:HG11	1:A:643:ASP:OD1	1.88	0.73
1:A:748:LYS:NZ	1:A:748:LYS:HA	2.02	0.73
1:B:628:VAL:HA	1:B:631:ALA:HB3	1.69	0.73
1:A:16:LEU:HD11	1:A:463:ARG:HA	1.68	0.73
1:A:34:LEU:HG	1:A:35:GLN:N	2.02	0.73
1:A:61:ILE:HB	1:A:156:HIS:CD2	2.21	0.73
1:A:87:ASN:HD21	1:A:191:ARG:CZ	2.01	0.73
1:A:195:LEU:HD22	1:A:199:LEU:HD12	1.69	0.73
1:A:205:VAL:CG2	1:A:239:ARG:NH2	2.51	0.73
1:A:388:ASP:OD2	1:A:389:VAL:HG12	1.89	0.73
1:A:526:LEU:N	1:A:526:LEU:HD23	2.03	0.73
1:B:22:ILE:HG13	1:B:517:TYR:HD1	1.53	0.73
1:B:24:GLU:HB2	1:B:506:HIS:NE2	2.02	0.73
1:B:29:LEU:N	1:B:29:LEU:HD23	2.03	0.73
1:B:408:PHE:CD1	1:B:413:PHE:CZ	2.73	0.73
1:B:437:MET:HE1	1:B:550:ALA:HA	1.67	0.73
1:A:99:ASN:OD1	1:A:100:PRO:HD2	1.88	0.73
1:A:233:ALA:O	1:A:236:ALA:N	2.20	0.73
1:A:327:GLU:HA	1:A:331:PHE:CZ	2.23	0.73
1:A:595:VAL:CG1	1:A:698:ILE:HD12	2.17	0.73
1:B:106:LEU:CD1	1:B:154:VAL:HG11	2.19	0.73
1:B:236:ALA:O	1:B:239:ARG:HB2	1.88	0.73
1:A:217:LYS:C	1:A:219:ALA:HB2	2.08	0.73
1:A:536:GLU:OE1	1:A:536:GLU:N	2.20	0.73
1:B:2:PHE:CZ	1:B:3:ASN:O	2.42	0.73
1:B:92:TYR:CE2	1:B:146:PHE:CG	2.77	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:220:LEU:O	1:B:224:LEU:HD11	1.88	0.73
1:B:424:VAL:CB	1:B:430:VAL:HG13	2.17	0.73
1:A:75:GLN:HE22	1:A:447:ARG:NH2	1.86	0.73
1:A:75:GLN:HE22	1:A:447:ARG:HH21	1.35	0.73
1:A:221:ALA:HB1	1:A:225:ILE:N	2.02	0.73
1:A:568:LEU:N	1:A:568:LEU:HD12	2.04	0.73
1:A:632:ILE:HD13	1:A:632:ILE:N	2.04	0.73
1:A:690:ALA:O	1:A:693:LEU:CB	2.32	0.73
1:A:754:ASN:OD1	1:A:756:LEU:HB2	1.89	0.73
1:B:89:PHE:HE1	1:B:146:PHE:N	1.85	0.73
1:B:131:ILE:HD12	1:B:134:GLN:HB3	1.70	0.73
1:B:136:ARG:HD3	1:B:147:HIS:HD2	1.54	0.73
1:B:156:HIS:ND1	1:B:157:VAL:HG22	2.03	0.73
1:B:715:HIS:HA	1:B:719:ASN:CB	2.18	0.73
1:A:205:VAL:HG12	1:A:206:ASP:H	1.53	0.73
1:A:733:GLN:HA	1:A:733:GLN:HE21	1.51	0.73
1:B:33:ALA:O	1:B:35:GLN:NE2	2.21	0.73
1:B:58:LYS:HE2	1:B:58:LYS:N	2.02	0.73
1:B:308:PHE:HZ	1:B:318:ILE:H	1.35	0.73
1:B:485:ASN:OD1	1:B:486:TYR:HD1	1.70	0.73
1:B:627:THR:O	1:B:628:VAL:C	2.23	0.73
1:A:510:ALA:HB1	1:A:511:ALA:HB2	1.69	0.73
1:A:544:GLU:HB3	1:A:545:PRO:CA	2.18	0.73
1:B:35:GLN:CG	1:B:502:VAL:HG23	2.18	0.73
1:B:36:LEU:HD12	1:B:36:LEU:N	2.03	0.73
1:B:106:LEU:C	1:B:110:ILE:HG13	2.09	0.73
1:B:156:HIS:HD2	1:B:158:LEU:HB3	1.52	0.73
1:B:156:HIS:HB3	1:B:206:ASP:CG	2.08	0.73
1:B:233:ALA:HA	1:B:236:ALA:HB3	1.69	0.73
1:B:361:TYR:CD1	1:B:441:PHE:CD2	2.77	0.73
1:B:451:LEU:HG	1:B:453:ARG:NE	2.02	0.73
1:B:522:VAL:HG21	1:B:540:ILE:HD12	1.70	0.73
1:B:540:ILE:HD13	1:B:551:TYR:HB2	1.70	0.73
1:B:590:GLU:HB2	1:B:607:LYS:CG	2.17	0.73
1:B:608:GLU:N	1:B:609:PHE:HB2	2.02	0.73
1:B:681:ILE:HG22	1:B:731:VAL:CB	2.17	0.73
1:A:181:PRO:HB2	1:A:484:PHE:CZ	2.23	0.73
1:A:245:ASP:O	1:A:249:VAL:N	2.22	0.73
1:A:274:ARG:HG2	1:A:274:ARG:NH1	2.03	0.73
1:A:532:TYR:OH	1:A:541:ARG:HD3	1.88	0.73
1:A:570:ASN:OD1	1:A:571:HIS:N	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:636:TRP:CD2	1:A:640:PHE:CE1	2.76	0.73
1:A:690:ALA:CA	1:A:693:LEU:HD22	2.19	0.73
1:B:103:TRP:HE1	1:B:231:ASN:CA	2.01	0.73
1:B:199:LEU:C	1:B:202:LEU:HB2	2.09	0.73
1:B:247:ASN:OD1	1:B:248:ALA:N	2.21	0.73
1:B:317:ILE:HG23	1:B:320:TRP:CD2	2.24	0.73
1:B:385:ARG:C	1:B:386:PHE:HD1	1.92	0.73
1:B:708:ILE:HD12	1:B:709:ASP:N	2.03	0.73
1:A:51:GLU:HA	1:A:174:VAL:HG11	1.70	0.73
1:A:60:ASN:OD1	1:A:156:HIS:ND1	2.21	0.73
1:A:343:ILE:H	1:A:559:GLU:HG2	1.53	0.73
1:B:102:ILE:HG22	1:B:138:LEU:CD1	2.19	0.73
1:B:309:SER:CB	1:B:315:SER:CA	2.67	0.73
1:B:317:ILE:HG23	1:B:320:TRP:CE3	2.23	0.73
1:B:360:VAL:HG22	1:B:438:THR:C	2.08	0.73
1:B:560:VAL:CG2	1:B:562:GLN:H	1.97	0.73
1:A:45:SER:C	1:A:332:LYS:HB2	2.09	0.73
1:A:263:PRO:HG3	1:A:502:VAL:HG23	1.70	0.73
1:A:694:ALA:HB2	1:A:726:TRP:CZ3	2.24	0.73
1:B:18:GLN:CG	1:B:487:TYR:OH	2.36	0.73
1:B:22:ILE:CG2	1:B:506:HIS:ND1	2.51	0.73
1:B:24:GLU:HA	1:B:25:LEU:HD13	1.70	0.73
1:B:101:GLU:OE1	1:B:101:GLU:N	2.21	0.73
1:B:182:ASN:HB3	1:B:484:PHE:CZ	2.23	0.73
1:B:523:ARG:HG3	1:B:538:GLY:O	1.89	0.73
1:B:610:GLU:CG	1:B:614:LEU:O	2.36	0.73
1:B:619:GLU:OE1	1:B:619:GLU:N	2.22	0.73
1:A:37:PRO:HB2	1:A:501:VAL:HG23	1.69	0.72
1:A:99:ASN:ND2	1:A:101:GLU:CD	2.42	0.72
1:A:323:GLU:OE2	1:A:328:VAL:HG22	1.88	0.72
1:A:528:ILE:HD12	1:A:528:ILE:N	2.03	0.72
1:A:638:SER:O	1:A:641:VAL:CB	2.36	0.72
1:A:655:ARG:N	1:A:656:ASP:HB2	2.04	0.72
1:A:674:LEU:HA	1:A:677:LYS:HE2	1.71	0.72
1:B:3:ASN:C	1:B:4:LEU:HD12	2.09	0.72
1:B:321:PHE:HZ	1:B:326:SER:CB	2.01	0.72
1:B:364:TRP:HE1	1:B:628:VAL:HG13	1.53	0.72
1:B:373:PHE:HD2	1:B:583:ALA:CB	1.72	0.72
1:B:592:ALA:HA	1:B:726:TRP:HZ2	1.54	0.72
1:B:597:ILE:CB	1:B:714:LEU:HA	2.19	0.72
1:B:720:ARG:O	1:B:724:ARG:CB	2.28	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:148:HIS:CE1	1:A:578:TRP:HH2	2.07	0.72
1:A:205:VAL:HG12	1:A:206:ASP:N	2.04	0.72
1:A:221:ALA:HB1	1:A:225:ILE:H	1.53	0.72
1:A:448:ASP:CB	1:A:455:PRO:HD3	2.16	0.72
1:A:623:ILE:CD1	1:A:624:LEU:H	2.02	0.72
1:A:689:SER:O	1:A:690:ALA:C	2.25	0.72
1:B:9:LEU:HD11	1:B:544:GLU:OE1	1.89	0.72
1:B:106:LEU:O	1:B:109:TYR:N	2.22	0.72
1:B:614:LEU:CD1	1:B:615:GLY:C	2.57	0.72
1:B:642:GLU:HA	1:B:645:ARG:HH11	0.77	0.72
1:B:695:GLN:HE22	1:B:715:HIS:CE1	2.07	0.72
1:B:702:MET:HA	1:B:702:MET:CE	2.18	0.72
1:A:4:LEU:HB2	1:A:9:LEU:HA	1.70	0.72
1:A:35:GLN:O	1:A:502:VAL:HG11	1.88	0.72
1:A:213:THR:CB	1:A:215:LYS:HZ2	2.01	0.72
1:A:257:LEU:HD22	1:A:261:TRP:CH2	2.24	0.72
1:A:278:THR:O	1:A:279:ASN:ND2	2.22	0.72
1:A:347:SER:CA	1:A:554:PRO:HB3	2.20	0.72
1:A:600:LYS:HE2	1:A:705:ARG:NH1	2.04	0.72
1:B:38:LEU:HD13	1:B:38:LEU:N	2.02	0.72
1:B:235:THR:HB	1:B:239:ARG:NH1	2.03	0.72
1:B:497:HIS:HD2	1:B:549:ILE:CD1	1.98	0.72
1:B:526:LEU:C	1:B:527:ARG:NH1	2.43	0.72
1:A:18:GLN:C	1:A:21:ALA:H	1.91	0.72
1:A:377:LYS:HE3	1:A:379:ALA:N	2.04	0.72
1:A:408:PHE:CE1	1:A:636:TRP:NE1	2.43	0.72
1:A:476:SER:C	1:A:478:ASP:N	2.37	0.72
1:A:493:TYR:CE1	1:A:549:ILE:HD12	2.22	0.72
1:A:541:ARG:HD2	1:A:542:THR:CA	2.18	0.72
1:B:724:ARG:HA	1:B:724:ARG:NE	2.04	0.72
1:A:2:PHE:CD2	1:A:459:ILE:CG2	2.50	0.72
1:A:61:ILE:HG23	1:A:62:ASP:N	2.05	0.72
1:A:404:ILE:HD13	1:A:681:ILE:HG23	1.66	0.72
1:A:444:VAL:CG2	1:A:445:VAL:N	2.45	0.72
1:B:369:GLU:C	1:B:370:ILE:HG12	2.08	0.72
1:B:404:ILE:O	1:B:407:THR:HG22	1.90	0.72
1:B:607:LYS:CB	1:B:608:GLU:CB	2.68	0.72
1:B:668:MET:HA	1:B:671:ALA:HB3	1.70	0.72
1:A:3:ASN:ND2	1:A:439:LEU:HD21	2.05	0.72
1:A:18:GLN:HG2	1:A:491:MET:CE	2.15	0.72
1:A:144:GLU:O	1:A:146:PHE:N	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:237:PHE:CA	1:A:240:SER:HB3	2.18	0.72
1:A:346:THR:CG2	1:A:359:VAL:O	2.18	0.72
1:A:439:LEU:H	1:A:439:LEU:CD2	2.03	0.72
1:B:6:VAL:CG2	1:B:530:VAL:HA	2.19	0.72
1:B:67:ALA:CA	1:B:70:PHE:HB2	2.19	0.72
1:B:156:HIS:CE1	1:B:210:LEU:HD21	2.23	0.72
1:B:156:HIS:HD2	1:B:158:LEU:CB	2.03	0.72
1:B:341:SER:O	1:B:559:GLU:HB2	1.89	0.72
1:B:453:ARG:N	1:B:453:ARG:HD2	2.03	0.72
1:B:501:VAL:HG13	1:B:520:TRP:NE1	2.03	0.72
1:A:278:THR:HG23	1:A:281:ILE:HG12	1.70	0.72
1:A:630:HIS:N	1:A:737:LEU:HG	2.04	0.72
1:A:713:ASP:O	1:A:714:LEU:CD2	2.38	0.72
1:B:45:SER:HA	1:B:181:PRO:CD	2.18	0.72
1:B:86:VAL:HB	1:B:191:ARG:CG	2.19	0.72
1:B:694:ALA:HB1	1:B:726:TRP:NE1	2.04	0.72
1:B:737:LEU:C	1:B:738:LEU:HD22	2.09	0.72
1:A:365:GLN:NE2	1:A:366:PHE:HA	2.05	0.72
1:A:413:PHE:CZ	1:A:639:TRP:CZ2	2.57	0.72
1:A:524:THR:OG1	1:A:538:GLY:C	2.27	0.72
1:A:636:TRP:CZ2	1:A:640:PHE:HE2	1.78	0.72
1:A:637:TYR:HH	1:A:745:ALA:HB1	1.53	0.72
1:A:653:THR:HA	1:A:655:ARG:HG3	1.58	0.72
1:A:663:ILE:HD12	1:A:664:ASP:N	2.04	0.72
1:B:182:ASN:C	1:B:186:LEU:CD1	2.58	0.72
1:B:183:PHE:CZ	1:B:301:ARG:NH1	2.51	0.72
1:B:215:LYS:O	1:B:215:LYS:NZ	2.22	0.72
1:B:371:THR:CA	1:B:623:ILE:CG1	2.68	0.72
1:A:24:GLU:CA	1:A:26:LYS:HB2	2.20	0.72
1:A:34:LEU:HD23	1:A:504:SER:CB	2.20	0.72
1:A:196:ARG:O	1:A:197:ARG:NH2	2.22	0.72
1:A:354:GLN:H	1:A:354:GLN:CD	1.92	0.72
1:A:547:GLU:HA	1:A:550:ALA:HB3	1.71	0.72
1:A:669:GLN:HG2	1:A:670:ASN:N	2.05	0.72
1:B:14:ARG:CZ	1:B:17:THR:HG21	2.20	0.72
1:B:47:SER:CB	1:B:332:LYS:HZ1	2.03	0.72
1:B:104:ARG:C	1:B:105:LYS:HZ3	1.92	0.72
1:B:129:THR:HA	1:B:151:THR:HG22	1.72	0.72
1:B:308:PHE:HZ	1:B:318:ILE:N	1.87	0.72
1:A:194:ASP:OD2	1:A:198:MET:HE2	1.89	0.72
1:A:361:TYR:CZ	1:A:414:VAL:HG21	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:363:ASP:O	1:A:364:TRP:CD2	2.42	0.72
1:A:606:VAL:HG22	1:A:610:GLU:OE1	1.90	0.72
1:B:46:ALA:CB	1:B:179:THR:HA	2.16	0.72
1:B:126:VAL:N	1:B:128:PRO:HD3	2.05	0.72
1:B:129:THR:HA	1:B:151:THR:CG2	2.20	0.72
1:B:195:LEU:HD23	1:B:199:LEU:HD11	1.72	0.72
1:B:268:GLU:O	1:B:269:LEU:HD22	1.90	0.72
1:B:361:TYR:HD1	1:B:441:PHE:CD2	2.08	0.72
1:B:533:ASN:HB2	1:B:535:ILE:CD1	2.20	0.72
1:B:604:ALA:CB	1:B:698:ILE:HG23	2.19	0.72
1:A:182:ASN:ND2	1:A:184:TYR:HB2	2.05	0.71
1:A:271:PRO:CB	1:A:276:ARG:NH1	2.52	0.71
1:A:294:TYR:HE1	1:A:515:SER:CA	2.02	0.71
1:A:365:GLN:CD	1:A:366:PHE:HA	2.11	0.71
1:A:630:HIS:HA	1:A:737:LEU:HD12	1.71	0.71
1:B:118:ILE:N	1:B:222:PRO:HG3	2.00	0.71
1:B:345:GLN:HB3	1:B:554:PRO:CA	2.18	0.71
1:B:349:ILE:CD1	1:B:353:GLY:HA3	2.15	0.71
1:B:455:PRO:O	1:B:459:ILE:HG13	1.89	0.71
1:B:585:THR:N	1:B:622:ARG:HG3	2.05	0.71
1:B:597:ILE:CD1	1:B:713:ASP:O	2.37	0.71
1:A:108:ALA:O	1:A:112:GLY:CA	2.38	0.71
1:A:201:ALA:C	1:A:204:SER:H	1.93	0.71
1:A:363:ASP:O	1:A:364:TRP:CG	2.42	0.71
1:A:377:LYS:HE3	1:A:379:ALA:CA	2.19	0.71
1:B:38:LEU:HD22	1:B:38:LEU:N	2.01	0.71
1:B:69:LEU:N	1:B:69:LEU:HD22	2.05	0.71
1:B:72:GLN:CG	1:B:174:VAL:HG12	2.18	0.71
1:B:309:SER:CB	1:B:315:SER:OG	2.37	0.71
1:B:407:THR:HG23	1:B:408:PHE:CG	2.18	0.71
1:B:606:VAL:CG2	1:B:693:LEU:HD21	2.20	0.71
1:B:623:ILE:HD12	1:B:625:LYS:CA	2.20	0.71
1:B:706:GLY:O	1:B:709:ASP:HB3	1.90	0.71
1:A:36:LEU:HG	1:A:263:PRO:O	1.90	0.71
1:A:43:THR:OG1	1:A:332:LYS:HE2	1.89	0.71
1:A:61:ILE:HG21	1:A:156:HIS:CD2	2.18	0.71
1:A:86:VAL:CG2	1:A:191:ARG:HG2	2.19	0.71
1:B:13:ALA:HB3	1:B:16:LEU:CD2	2.20	0.71
1:B:38:LEU:HD21	1:B:501:VAL:H	1.51	0.71
1:B:100:PRO:O	1:B:104:ARG:N	2.23	0.71
1:B:384:GLN:HE22	1:B:576:HIS:CA	2.02	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:501:VAL:CA	1:B:519:VAL:O	2.38	0.71
1:A:2:PHE:CZ	1:A:486:TYR:CZ	2.73	0.71
1:A:21:ALA:O	1:A:299:LYS:HG2	1.90	0.71
1:A:532:TYR:HE1	1:A:543:PRO:HD2	1.54	0.71
1:B:68:ARG:O	1:B:71:PHE:HB3	1.88	0.71
1:B:371:THR:H	1:B:623:ILE:HG13	1.54	0.71
1:B:376:VAL:CB	1:B:386:PHE:H	2.02	0.71
1:B:505:GLU:C	1:B:517:TYR:OH	2.27	0.71
1:B:510:ALA:HB3	1:B:511:ALA:CA	2.20	0.71
1:B:522:VAL:O	1:B:540:ILE:N	2.19	0.71
1:B:535:ILE:HD11	1:B:540:ILE:O	1.89	0.71
1:B:596:THR:CG2	1:B:601:ARG:CZ	2.69	0.71
1:A:4:LEU:HD21	1:A:17:THR:HG21	1.72	0.71
1:A:35:GLN:CB	1:A:263:PRO:CB	2.68	0.71
1:A:35:GLN:C	1:A:502:VAL:HG11	2.10	0.71
1:A:346:THR:CB	1:A:358:VAL:C	2.58	0.71
1:A:490:VAL:HG23	1:A:491:MET:N	2.04	0.71
1:B:23:GLY:O	1:B:25:LEU:CD1	2.39	0.71
1:B:45:SER:HB2	1:B:181:PRO:CD	2.14	0.71
1:B:302:GLY:CA	1:B:303:ARG:HH12	1.99	0.71
1:B:344:GLY:HA2	1:B:555:ILE:O	1.90	0.71
1:B:358:VAL:HG21	1:B:438:THR:HB	1.71	0.71
1:B:377:LYS:CA	1:B:385:ARG:HD3	2.21	0.71
1:B:530:VAL:HB	1:B:551:TYR:CE1	2.25	0.71
1:B:545:PRO:O	1:B:548:ALA:N	2.23	0.71
1:B:650:ALA:HA	1:B:653:THR:OG1	1.91	0.71
1:A:176:ARG:NH1	1:A:446:GLU:CG	2.53	0.71
1:A:303:ARG:NH1	1:A:303:ARG:HB2	2.05	0.71
1:A:502:VAL:H	1:A:518:LEU:HD13	1.55	0.71
1:A:530:VAL:HG21	1:A:551:TYR:CE2	2.25	0.71
1:A:553:LYS:HA	1:A:553:LYS:HE3	1.71	0.71
1:B:164:ILE:HG23	1:B:165:LEU:HD12	1.71	0.71
1:B:245:ASP:OD1	1:B:248:ALA:N	2.18	0.71
1:B:522:VAL:HB	1:B:540:ILE:CD1	2.19	0.71
1:B:533:ASN:HD22	1:B:551:TYR:HE2	1.38	0.71
1:B:583:ALA:CA	1:B:624:LEU:CB	2.61	0.71
1:B:585:THR:H	1:B:622:ARG:HG3	1.55	0.71
1:B:704:GLY:N	1:B:708:ILE:HD11	2.05	0.71
1:A:24:GLU:HG3	1:A:26:LYS:HG2	1.72	0.71
1:A:241:ARG:HD3	1:A:241:ARG:C	2.11	0.71
1:A:492:HIS:O	1:A:495:VAL:HB	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:505:GLU:OE2	1:A:507:GLN:HA	1.91	0.71
1:A:654:SER:N	1:A:655:ARG:HB2	2.05	0.71
1:A:693:LEU:HB3	1:A:726:TRP:HH2	1.54	0.71
1:B:44:PHE:CE2	1:B:333:LEU:HD22	2.25	0.71
1:B:245:ASP:CB	1:B:248:ALA:HB3	2.17	0.71
1:B:259:ARG:O	1:B:269:LEU:HD11	1.91	0.71
1:B:341:SER:O	1:B:342:TYR:CB	2.36	0.71
1:B:342:TYR:HB3	1:B:559:GLU:CB	2.21	0.71
1:B:358:VAL:HG23	1:B:438:THR:HG22	1.72	0.71
1:B:364:TRP:CB	1:B:410:VAL:HG11	2.20	0.71
1:B:607:LYS:H	1:B:609:PHE:CB	2.04	0.71
1:B:666:ARG:HG3	1:B:669:GLN:HE21	1.54	0.71
1:A:42:ARG:HH11	1:A:336:ILE:CD1	1.91	0.71
1:A:52:LEU:C	1:A:53:LEU:HD23	2.11	0.71
1:A:82:VAL:N	1:A:85:LEU:HD21	2.06	0.71
1:A:126:VAL:C	1:A:166:PRO:HB3	2.10	0.71
1:A:336:ILE:HD13	1:A:336:ILE:N	2.06	0.71
1:A:676:ARG:HA	1:A:679:GLU:CG	2.21	0.71
1:B:339:THR:OG1	1:B:496:ALA:CB	2.38	0.71
1:B:404:ILE:HG21	1:B:737:LEU:CG	2.18	0.71
1:B:596:THR:HG21	1:B:601:ARG:HD2	1.72	0.71
1:B:673:THR:C	1:B:677:LYS:HZ1	1.94	0.71
1:A:18:GLN:OE1	1:A:295:GLN:NE2	2.23	0.71
1:A:81:SER:OG	1:A:82:VAL:N	2.23	0.71
1:A:144:GLU:O	1:A:145:LEU:HD12	1.89	0.71
1:A:223:ALA:O	1:A:226:SER:N	2.23	0.71
1:A:259:ARG:HD2	1:A:266:PRO:HA	1.71	0.71
1:A:377:LYS:HE3	1:A:379:ALA:C	2.10	0.71
1:A:430:VAL:HG12	1:A:529:PRO:CB	2.16	0.71
1:A:492:HIS:CA	1:A:495:VAL:HG23	2.20	0.71
1:A:527:ARG:HH12	1:A:528:ILE:CD1	2.02	0.71
1:B:103:TRP:CE2	1:B:230:ALA:HB3	2.26	0.71
1:B:332:LYS:HD2	1:B:334:ARG:NH2	2.04	0.71
1:B:373:PHE:O	1:B:621:VAL:HA	1.91	0.71
1:B:677:LYS:O	1:B:680:MET:HG3	1.90	0.71
1:A:108:ALA:C	1:A:112:GLY:HA3	2.10	0.71
1:A:359:VAL:HG21	1:A:639:TRP:CZ2	2.26	0.71
1:A:503:VAL:HB	1:A:519:VAL:H	1.54	0.71
1:A:587:PHE:HE2	1:A:621:VAL:CA	2.04	0.71
1:A:733:GLN:HA	1:A:733:GLN:NE2	2.04	0.71
1:B:575:ILE:HG22	1:B:576:HIS:HB2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:92:TYR:OH	1:A:150:THR:HG21	1.91	0.70
1:A:591:ASP:H	1:A:606:VAL:CG1	1.99	0.70
1:A:652:ARG:HH11	1:A:652:ARG:CG	2.03	0.70
1:B:93:HIS:CD2	1:B:237:PHE:CD1	2.70	0.70
1:B:114:SER:OG	1:B:117:ALA:HB2	1.91	0.70
1:B:186:LEU:HD12	1:B:186:LEU:N	2.05	0.70
1:B:292:ILE:HD12	1:B:292:ILE:N	2.06	0.70
1:B:314:SER:HB2	1:B:317:ILE:CB	2.19	0.70
1:B:408:PHE:HB3	1:B:632:ILE:CG1	2.20	0.70
1:B:600:LYS:HB2	1:B:602:TYR:OH	1.90	0.70
1:B:607:LYS:CB	1:B:608:GLU:CA	2.69	0.70
1:B:619:GLU:HB2	1:B:620:ARG:HG3	1.72	0.70
1:B:694:ALA:HB1	1:B:726:TRP:HE1	1.56	0.70
1:A:59:GLY:O	1:A:156:HIS:CG	2.44	0.70
1:A:60:ASN:C	1:A:156:HIS:CG	2.57	0.70
1:A:89:PHE:HE2	1:A:146:PHE:HD2	1.34	0.70
1:A:201:ALA:HA	1:A:204:SER:OG	1.90	0.70
1:A:290:LEU:HD12	1:A:290:LEU:O	1.90	0.70
1:B:40:PHE:HE2	1:B:495:VAL:HG12	1.55	0.70
1:B:60:ASN:O	1:B:61:ILE:HD12	1.90	0.70
1:B:105:LYS:N	1:B:105:LYS:HZ3	1.89	0.70
1:B:127:PRO:C	1:B:131:ILE:H	1.94	0.70
1:B:408:PHE:HB2	1:B:632:ILE:CD1	2.21	0.70
1:B:590:GLU:CA	1:B:607:LYS:HB3	2.21	0.70
1:B:681:ILE:HG22	1:B:731:VAL:HG13	1.59	0.70
1:B:705:ARG:HA	1:B:705:ARG:NE	2.05	0.70
1:A:29:LEU:HD22	1:A:29:LEU:H	1.56	0.70
1:A:338:GLU:C	1:A:341:SER:H	1.93	0.70
1:A:503:VAL:HG23	1:A:519:VAL:CB	2.21	0.70
1:B:4:LEU:CB	1:B:5:LYS:HB2	2.19	0.70
1:B:97:ALA:HB2	1:B:234:THR:CG2	2.21	0.70
1:B:158:LEU:HD23	1:B:158:LEU:O	1.91	0.70
1:B:191:ARG:NH1	1:B:191:ARG:HB2	2.06	0.70
1:B:214:PHE:HD1	1:B:214:PHE:H	1.37	0.70
1:B:462:LEU:HD12	1:B:463:ARG:HG3	1.71	0.70
1:B:471:LEU:CB	1:B:476:SER:HA	2.21	0.70
1:B:568:LEU:HB2	1:B:571:HIS:HB2	1.73	0.70
1:B:647:LEU:O	1:B:647:LEU:HD22	1.91	0.70
1:B:726:TRP:CE3	1:B:729:LEU:HB2	2.26	0.70
1:A:278:THR:HG21	1:A:281:ILE:HG21	1.72	0.70
1:A:281:ILE:HD13	1:A:285:ARG:HH21	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:544:GLU:HG2	1:A:547:GLU:HB2	1.73	0.70
1:A:597:ILE:CD1	1:A:598:ARG:HD2	2.14	0.70
1:A:630:HIS:CB	1:A:737:LEU:HD21	2.17	0.70
1:B:102:ILE:HG21	1:B:135:LEU:HD21	1.73	0.70
1:B:127:PRO:CA	1:B:130:ALA:HB3	2.22	0.70
1:B:400:THR:HG21	1:B:686:ILE:CG1	2.21	0.70
1:B:616:GLN:C	1:B:618:ARG:CA	2.53	0.70
1:B:668:MET:HA	1:B:671:ALA:HB2	1.71	0.70
1:A:49:THR:HG23	1:A:50:SER:N	2.07	0.70
1:A:59:GLY:O	1:A:156:HIS:CD2	2.44	0.70
1:A:233:ALA:O	1:A:236:ALA:CA	2.39	0.70
1:A:309:SER:O	1:A:313:LEU:HD22	1.91	0.70
1:A:498:ASN:ND2	1:A:522:VAL:HG12	2.06	0.70
1:A:624:LEU:O	1:A:626:PRO:HD3	1.91	0.70
1:B:118:ILE:O	1:B:222:PRO:CD	2.40	0.70
1:B:145:LEU:N	1:B:145:LEU:HD12	2.06	0.70
1:B:260:LEU:HD11	1:B:285:ARG:HB2	1.73	0.70
1:B:322:ILE:HG13	1:B:323:GLU:OE1	1.92	0.70
1:B:401:LEU:HD22	1:B:404:ILE:HD11	1.71	0.70
1:B:462:LEU:HD13	1:B:463:ARG:CG	2.21	0.70
1:B:735:MET:CG	1:B:737:LEU:HD13	2.21	0.70
1:A:4:LEU:HD13	1:A:9:LEU:CB	2.22	0.70
1:A:12:SER:C	1:A:14:ARG:H	1.94	0.70
1:A:52:LEU:N	1:A:174:VAL:HG22	2.07	0.70
1:A:265:THR:CB	1:A:267:LYS:H	2.02	0.70
1:A:349:ILE:CG2	1:A:354:GLN:HA	2.20	0.70
1:A:742:GLU:O	1:A:746:LEU:N	2.22	0.70
1:B:21:ALA:CB	1:B:295:GLN:HG3	2.21	0.70
1:B:38:LEU:HD21	1:B:501:VAL:C	2.12	0.70
1:B:243:ASN:HD21	1:B:244:PHE:HD2	1.38	0.70
1:A:194:ASP:O	1:A:198:MET:N	2.24	0.70
1:A:346:THR:OG1	1:A:347:SER:O	2.08	0.70
1:A:386:PHE:CD1	1:A:576:HIS:HB3	2.26	0.70
1:B:294:TYR:O	1:B:298:VAL:HG23	1.92	0.70
1:B:363:ASP:CB	1:B:441:PHE:HB3	2.21	0.70
1:B:571:HIS:CA	1:B:574:SER:HB2	2.17	0.70
1:A:42:ARG:O	1:A:289:ALA:C	2.29	0.70
1:A:47:SER:H	1:A:48:MET:CE	2.05	0.70
1:A:148:HIS:NE2	1:A:578:TRP:HH2	1.89	0.70
1:A:232:ALA:O	1:A:236:ALA:CB	2.39	0.70
1:A:546:LEU:O	1:A:549:ILE:N	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:7:LYS:CD	1:B:531:GLY:HA2	2.10	0.70
1:B:56:VAL:O	1:B:170:TYR:HB2	1.92	0.70
1:B:156:HIS:CD2	1:B:210:LEU:HD22	2.21	0.70
1:B:283:GLN:NE2	1:B:283:GLN:H	1.90	0.70
1:B:372:ALA:HB3	1:B:389:VAL:CB	2.21	0.70
1:B:518:LEU:O	1:B:543:PRO:HA	1.92	0.70
1:A:600:LYS:HE2	1:A:705:ARG:CZ	2.22	0.70
1:A:677:LYS:HA	1:A:680:MET:CG	2.21	0.70
1:A:715:HIS:CD2	1:A:716:VAL:HG13	2.26	0.70
1:B:45:SER:HA	1:B:181:PRO:HD3	1.71	0.70
1:B:106:LEU:O	1:B:110:ILE:HG13	1.91	0.70
1:B:312:GLU:HG3	1:B:313:LEU:H	1.55	0.70
1:B:354:GLN:HB2	1:B:528:ILE:HG21	0.74	0.70
1:B:623:ILE:HD12	1:B:625:LYS:HB3	0.75	0.70
1:A:654:SER:CA	1:A:655:ARG:CB	2.59	0.70
1:A:718:ILE:C	1:A:722:ARG:H	1.95	0.70
1:A:732:LEU:C	1:A:738:LEU:HD21	2.12	0.70
1:B:449:TYR:CB	1:B:634:GLN:OE1	2.40	0.70
1:B:580:TRP:CZ3	1:B:583:ALA:HB2	2.26	0.70
1:B:726:TRP:CE3	1:B:726:TRP:HA	2.27	0.70
1:A:493:TYR:OH	1:A:549:ILE:HB	1.91	0.69
1:A:629:ALA:HB3	1:A:735:MET:CE	2.23	0.69
1:A:723:ILE:CG2	1:A:724:ARG:HD3	2.10	0.69
1:A:729:LEU:CD1	1:A:733:GLN:HG2	2.18	0.69
1:B:68:ARG:HH22	1:B:328:VAL:HA	1.57	0.69
1:B:173:ARG:O	1:B:174:VAL:CG1	2.40	0.69
1:B:180:TYR:HE2	1:B:492:HIS:CE1	2.08	0.69
1:B:228:HIS:HA	1:B:231:ASN:HB3	1.73	0.69
1:B:235:THR:HB	1:B:239:ARG:HH22	1.56	0.69
1:B:282:ASP:HB2	1:B:285:ARG:NH2	2.07	0.69
1:B:345:GLN:HB2	1:B:554:PRO:HA	1.73	0.69
1:B:462:LEU:CD1	1:B:463:ARG:HG3	2.22	0.69
1:B:527:ARG:H	1:B:527:ARG:HD2	1.57	0.69
1:B:542:THR:HG21	1:B:547:GLU:CB	2.20	0.69
1:B:756:LEU:HG	1:B:757:GLY:H	1.57	0.69
1:A:22:ILE:HG22	1:A:23:GLY:N	2.03	0.69
1:A:170:TYR:HA	1:A:576:HIS:CE1	2.26	0.69
1:A:200:THR:O	1:A:204:SER:N	2.25	0.69
1:A:285:ARG:O	1:A:288:LEU:HD13	1.93	0.69
1:A:505:GLU:HG2	1:A:515:SER:O	1.91	0.69
1:A:605:GLU:C	1:A:607:LYS:HZ1	1.94	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:671:ALA:HB1	1:A:753:SER:C	2.11	0.69
1:B:102:ILE:HD12	1:B:103:TRP:N	2.08	0.69
1:B:190:VAL:HG12	1:B:323:GLU:HB3	1.72	0.69
1:B:371:THR:OG1	1:B:623:ILE:CG1	2.40	0.69
1:B:501:VAL:C	1:B:502:VAL:HG13	2.12	0.69
1:A:108:ALA:CA	1:A:112:GLY:CA	2.66	0.69
1:A:236:ALA:HA	1:A:239:ARG:HD3	1.74	0.69
1:A:287:ASN:ND2	1:A:290:LEU:HD21	2.07	0.69
1:A:374:THR:HG22	1:A:620:ARG:NH1	2.06	0.69
1:A:444:VAL:C	1:A:446:GLU:N	2.41	0.69
1:A:459:ILE:HG12	1:A:486:TYR:CE2	2.27	0.69
1:A:547:GLU:CA	1:A:550:ALA:HB3	2.22	0.69
1:A:732:LEU:CG	1:A:738:LEU:HD21	2.22	0.69
1:A:758:MET:CB	1:A:759:VAL:HA	2.21	0.69
1:B:57:GLY:CA	1:B:58:LYS:HE2	2.21	0.69
1:B:312:GLU:OE1	1:B:313:LEU:HD23	1.91	0.69
1:B:340:THR:HB	1:B:342:TYR:OH	1.91	0.69
1:B:401:LEU:CD2	1:B:404:ILE:HD11	2.22	0.69
1:B:506:HIS:HB2	1:B:517:TYR:HH	1.56	0.69
1:B:742:GLU:HA	1:B:742:GLU:OE1	1.92	0.69
1:B:756:LEU:CG	1:B:757:GLY:H	2.05	0.69
1:A:22:ILE:HD11	1:A:295:GLN:CD	2.12	0.69
1:A:54:TRP:O	1:A:171:VAL:HA	1.92	0.69
1:A:213:THR:HB	1:A:215:LYS:HB3	1.72	0.69
1:A:393:ILE:CG2	1:A:612:LEU:HD12	2.22	0.69
1:A:471:LEU:HD12	1:A:477:ASN:H	1.56	0.69
1:A:685:GLY:C	1:A:687:GLY:N	2.43	0.69
1:B:106:LEU:O	1:B:110:ILE:N	2.25	0.69
1:B:196:ARG:HG3	1:B:196:ARG:HH11	1.56	0.69
1:B:216:ALA:H	1:B:220:LEU:HD12	1.56	0.69
1:B:362:GLU:OE2	1:B:442:PRO:N	2.26	0.69
1:B:426:GLN:O	1:B:429:THR:HG22	1.92	0.69
1:B:535:ILE:HG12	1:B:539:SER:O	1.91	0.69
1:B:756:LEU:HD12	1:B:757:GLY:N	2.08	0.69
1:A:128:PRO:HD3	1:A:166:PRO:CB	2.16	0.69
1:A:180:TYR:HB3	1:A:331:PHE:CA	2.22	0.69
1:A:346:THR:HG23	1:A:438:THR:OG1	1.93	0.69
1:A:436:GLU:C	1:A:438:THR:H	1.96	0.69
1:A:455:PRO:HA	1:A:458:ALA:CB	2.23	0.69
1:A:614:LEU:HD23	1:A:615:GLY:H	1.57	0.69
1:A:690:ALA:HA	1:A:693:LEU:HD22	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:748:LYS:HA	1:A:748:LYS:CE	2.23	0.69
1:B:90:THR:O	1:B:237:PHE:CE1	2.46	0.69
1:B:153:PHE:CE2	1:B:202:LEU:HB3	2.27	0.69
1:B:156:HIS:CD2	1:B:158:LEU:HB3	2.27	0.69
1:B:444:VAL:HB	1:B:486:TYR:CZ	2.27	0.69
1:B:674:LEU:CD1	1:B:749:VAL:HG21	2.22	0.69
1:B:684:THR:OG1	1:B:731:VAL:HG22	1.91	0.69
1:A:4:LEU:CB	1:A:13:ALA:HB3	2.22	0.69
1:A:40:PHE:CD2	1:A:288:LEU:C	2.53	0.69
1:A:82:VAL:CA	1:A:85:LEU:HD21	2.21	0.69
1:A:104:ARG:CD	1:A:104:ARG:H	2.03	0.69
1:A:128:PRO:CG	1:A:129:THR:HB	2.22	0.69
1:A:422:GLU:OE2	1:B:116:ARG:CG	2.40	0.69
1:A:519:VAL:HG22	1:A:541:ARG:C	2.13	0.69
1:B:114:SER:OG	1:B:223:ALA:N	2.25	0.69
1:B:614:LEU:HD12	1:B:615:GLY:C	2.13	0.69
1:A:183:PHE:CE2	1:A:184:TYR:CD1	2.81	0.69
1:A:259:ARG:HG3	1:A:269:LEU:CD1	2.14	0.69
1:A:527:ARG:NH1	1:A:528:ILE:CD1	2.55	0.69
1:A:585:THR:O	1:A:622:ARG:HD2	1.92	0.69
1:B:53:LEU:CD1	1:B:571:HIS:ND1	2.56	0.69
1:B:68:ARG:NH1	1:B:328:VAL:O	2.26	0.69
1:B:128:PRO:HA	1:B:131:ILE:CA	2.23	0.69
1:B:275:LEU:HD11	1:B:316:THR:N	2.06	0.69
1:A:38:LEU:C	1:A:501:VAL:HG11	2.13	0.69
1:A:62:ASP:HB3	1:A:66:TYR:CE2	2.27	0.69
1:A:110:ILE:HG22	1:A:111:THR:N	2.08	0.69
1:A:129:THR:HG22	1:A:130:ALA:HB2	1.74	0.69
1:A:315:SER:CB	1:A:318:ILE:HB	2.22	0.69
1:A:595:VAL:HG23	1:A:602:TYR:O	1.92	0.69
1:B:82:VAL:HG23	1:B:188:ASP:OD2	1.93	0.69
1:B:125:LYS:CA	1:B:128:PRO:HD3	2.23	0.69
1:B:180:TYR:CE1	1:B:489:ALA:HA	2.27	0.69
1:B:370:ILE:HG21	1:B:625:LYS:HB2	1.73	0.69
1:B:425:SER:CB	1:B:429:THR:HG23	2.17	0.69
1:B:520:TRP:CZ3	1:B:548:ALA:HB1	2.27	0.69
1:B:535:ILE:O	1:B:536:GLU:CB	2.37	0.69
1:B:596:THR:HG22	1:B:601:ARG:NE	2.08	0.69
1:B:638:SER:O	1:B:641:VAL:HG23	1.92	0.69
1:B:715:HIS:C	1:B:720:ARG:HH21	1.95	0.69
1:A:6:VAL:HG12	1:A:531:GLY:CA	2.20	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:272:SER:CA	1:A:276:ARG:NE	2.55	0.69
1:B:173:ARG:HD2	1:B:174:VAL:CA	2.23	0.69
1:A:80:LEU:N	1:A:80:LEU:HD23	2.07	0.69
1:A:170:TYR:N	1:A:575:ILE:HG21	2.08	0.69
1:A:507:GLN:OE1	1:A:508:GLY:N	2.25	0.69
1:A:544:GLU:HG2	1:A:547:GLU:OE1	1.92	0.69
1:A:572:THR:O	1:A:573:THR:C	2.31	0.69
1:B:38:LEU:HG	1:B:501:VAL:CB	2.15	0.69
1:B:172:TYR:HD1	1:B:173:ARG:N	1.90	0.69
1:B:651:ARG:NE	1:B:660:LYS:CG	2.56	0.69
1:A:498:ASN:HD21	1:A:500:GLU:CD	1.95	0.68
1:A:661:LEU:HD22	1:A:661:LEU:N	2.01	0.68
1:A:674:LEU:CA	1:A:677:LYS:HE2	2.23	0.68
1:A:744:GLU:OE1	1:A:744:GLU:HA	1.92	0.68
1:B:22:ILE:CG1	1:B:517:TYR:HD1	2.06	0.68
1:B:216:ALA:HB1	1:B:217:LYS:HB2	1.75	0.68
1:B:316:THR:HG22	1:B:320:TRP:CD1	2.28	0.68
1:B:477:ASN:HA	1:B:480:LYS:CG	2.24	0.68
1:B:498:ASN:OD1	1:B:522:VAL:HG22	1.93	0.68
1:B:506:HIS:N	1:B:507:GLN:HB3	2.08	0.68
1:B:523:ARG:HA	1:B:539:SER:HA	1.76	0.68
1:B:602:TYR:CB	1:B:701:GLN:HB3	2.22	0.68
1:B:678:ILE:HD12	1:B:679:GLU:N	2.07	0.68
1:B:693:LEU:HG	1:B:697:ARG:HH22	1.59	0.68
1:A:213:THR:HB	1:A:215:LYS:CD	2.14	0.68
1:A:287:ASN:ND2	1:A:290:LEU:HD11	2.08	0.68
1:A:476:SER:O	1:A:477:ASN:C	2.26	0.68
1:A:578:TRP:O	1:A:579:PRO:C	2.29	0.68
1:B:45:SER:HB2	1:B:180:TYR:HA	1.74	0.68
1:B:70:PHE:HD1	1:B:85:LEU:HD11	1.56	0.68
1:B:393:ILE:CG2	1:B:397:MET:HG2	2.23	0.68
1:B:637:TYR:HA	1:B:640:PHE:CE2	2.28	0.68
1:A:16:LEU:HD11	1:A:463:ARG:CA	2.23	0.68
1:A:384:GLN:CB	1:A:578:TRP:HE1	1.97	0.68
1:A:601:ARG:CZ	1:A:601:ARG:HA	2.23	0.68
1:A:636:TRP:CE2	1:A:640:PHE:HZ	2.08	0.68
1:A:716:VAL:HG21	1:B:378:LEU:HD13	1.74	0.68
1:B:93:HIS:HB3	1:B:237:PHE:CD1	2.10	0.68
1:B:249:VAL:O	1:B:253:VAL:HG23	1.93	0.68
1:B:284:LEU:HD11	1:B:290:LEU:CD2	2.23	0.68
1:B:523:ARG:HG3	1:B:538:GLY:C	2.13	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:587:PHE:HA	1:B:622:ARG:HA	1.75	0.68
1:B:607:LYS:HG3	1:B:609:PHE:CG	2.05	0.68
1:A:276:ARG:O	1:A:276:ARG:NH2	2.26	0.68
1:A:344:GLY:C	1:A:360:VAL:CB	2.41	0.68
1:A:520:TRP:CE3	1:A:545:PRO:CG	2.76	0.68
1:A:522:VAL:HG23	1:A:523:ARG:O	1.94	0.68
1:B:24:GLU:C	1:B:25:LEU:HD13	2.13	0.68
1:B:368:LYS:HB2	1:B:369:GLU:OE1	1.93	0.68
1:B:377:LYS:CB	1:B:385:ARG:NE	2.57	0.68
1:B:393:ILE:HA	1:B:612:LEU:HD12	1.75	0.68
1:B:617:ARG:HG3	1:B:617:ARG:HH11	1.58	0.68
1:A:35:GLN:HB2	1:A:263:PRO:CB	2.23	0.68
1:A:82:VAL:HB	1:A:188:ASP:HB3	1.75	0.68
1:A:170:TYR:CD1	1:A:576:HIS:HE1	2.11	0.68
1:A:211:GLN:CG	1:A:214:PHE:HD2	2.05	0.68
1:A:680:MET:O	1:A:684:THR:HB	1.93	0.68
1:A:750:LEU:C	1:A:753:SER:OG	2.32	0.68
1:B:97:ALA:HB2	1:B:234:THR:CB	2.22	0.68
1:B:156:HIS:HD2	1:B:158:LEU:CA	2.07	0.68
1:B:183:PHE:N	1:B:186:LEU:HD13	2.08	0.68
1:B:228:HIS:HD2	1:B:231:ASN:HD21	0.69	0.68
1:B:471:LEU:HB2	1:B:476:SER:N	2.08	0.68
1:B:525:GLU:H	1:B:525:GLU:CD	1.96	0.68
1:A:24:GLU:CG	1:A:26:LYS:HG2	2.23	0.68
1:A:45:SER:N	1:A:332:LYS:HG3	2.08	0.68
1:A:51:GLU:HA	1:A:174:VAL:CG1	2.24	0.68
1:A:259:ARG:O	1:A:260:LEU:C	2.30	0.68
1:A:272:SER:C	1:A:275:LEU:HB2	2.14	0.68
1:A:346:THR:HG21	1:A:438:THR:HG1	1.57	0.68
1:A:355:PRO:HB2	1:A:434:GLY:H	1.57	0.68
1:A:386:PHE:C	1:A:387:LEU:HG	2.14	0.68
1:A:524:THR:HG21	1:A:540:ILE:CG1	2.23	0.68
1:A:666:ARG:O	1:A:667:ARG:C	2.30	0.68
1:B:29:LEU:HD13	1:B:532:TYR:CE1	2.28	0.68
1:B:140:PRO:O	1:B:141:SER:OG	2.12	0.68
1:B:183:PHE:CA	1:B:186:LEU:CD1	2.53	0.68
1:B:324:ALA:CB	1:B:333:LEU:HD23	2.23	0.68
1:B:362:GLU:OE1	1:B:442:PRO:CG	2.39	0.68
1:A:64:VAL:HG13	1:A:196:ARG:HA	1.75	0.68
1:A:231:ASN:O	1:A:235:THR:OG1	2.09	0.68
1:A:292:ILE:HG22	1:A:295:GLN:CG	2.15	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:674:LEU:HA	1:A:677:LYS:HZ3	1.58	0.68
1:A:692:HIS:O	1:A:696:SER:N	2.25	0.68
1:A:698:ILE:HG12	1:A:702:MET:HE1	1.76	0.68
1:A:752:ASP:OD1	1:A:752:ASP:N	2.23	0.68
1:B:102:ILE:HD12	1:B:102:ILE:C	2.14	0.68
1:B:410:VAL:O	1:B:414:VAL:HG12	1.93	0.68
1:B:519:VAL:C	1:B:520:TRP:CD1	2.67	0.68
1:A:674:LEU:O	1:A:678:ILE:HG13	1.94	0.68
1:A:752:ASP:HA	1:A:754:ASN:O	1.94	0.68
1:B:47:SER:CB	1:B:332:LYS:HE2	2.22	0.68
1:B:226:SER:C	1:B:229:LEU:HB3	2.14	0.68
1:B:585:THR:OG1	1:B:586:GLU:N	2.24	0.68
1:A:48:MET:O	1:A:49:THR:HG22	1.93	0.68
1:A:315:SER:OG	1:A:316:THR:N	2.26	0.68
1:A:535:ILE:CG1	1:A:540:ILE:HD13	2.23	0.68
1:A:549:ILE:O	1:A:552:ASN:O	2.11	0.68
1:A:639:TRP:O	1:A:640:PHE:C	2.25	0.68
1:A:689:SER:O	1:A:690:ALA:O	2.12	0.68
1:B:9:LEU:CB	1:B:16:LEU:HD23	2.16	0.68
1:B:37:PRO:O	1:B:38:LEU:HD13	1.94	0.68
1:B:128:PRO:HA	1:B:131:ILE:H	1.59	0.68
1:B:292:ILE:H	1:B:292:ILE:CD1	2.05	0.68
1:B:318:ILE:N	1:B:318:ILE:HD12	2.09	0.68
1:B:401:LEU:C	1:B:404:ILE:HB	2.14	0.68
1:B:542:THR:CG2	1:B:547:GLU:HB3	2.21	0.68
1:B:688:ALA:O	1:B:691:VAL:HB	1.93	0.68
1:A:319:PRO:HD2	1:A:320:TRP:H	1.58	0.68
1:A:589:TYR:OH	1:A:591:ASP:OD1	2.04	0.68
1:A:617:ARG:HD2	1:A:618:ARG:O	1.94	0.68
1:A:740:ARG:HG3	1:A:740:ARG:NH1	2.09	0.68
1:B:69:LEU:HD22	1:B:69:LEU:H	1.59	0.68
1:B:238:GLU:OE1	1:B:238:GLU:HA	1.92	0.68
1:B:363:ASP:H	1:B:441:PHE:HB3	1.57	0.68
1:B:583:ALA:HB3	1:B:584:SER:C	2.14	0.68
1:B:625:LYS:H	1:B:625:LYS:NZ	1.92	0.68
1:B:670:ASN:HD21	1:B:749:VAL:HG11	0.51	0.68
1:A:177:THR:HG22	1:A:178:ALA:N	2.07	0.67
1:A:258:GLY:HA3	1:A:294:TYR:CD2	2.28	0.67
1:A:718:ILE:C	1:A:721:HIS:H	1.95	0.67
1:B:350:ASP:HB2	1:B:427:ARG:C	2.13	0.67
1:B:371:THR:C	1:B:623:ILE:CG1	2.50	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:471:LEU:HD12	1:B:476:SER:CA	2.18	0.67
1:B:735:MET:HG3	1:B:737:LEU:CD1	2.24	0.67
1:A:52:LEU:CB	1:A:174:VAL:HG13	2.24	0.67
1:A:150:THR:O	1:A:154:VAL:HG23	1.94	0.67
1:A:388:ASP:OD2	1:A:389:VAL:CG1	2.42	0.67
1:A:407:THR:O	1:A:408:PHE:HB2	1.92	0.67
1:A:505:GLU:CA	1:A:516:LEU:HB3	2.24	0.67
1:A:546:LEU:HD12	1:A:546:LEU:C	2.14	0.67
1:B:408:PHE:HB2	1:B:632:ILE:HD13	1.75	0.67
1:B:539:SER:C	1:B:541:ARG:HG2	2.07	0.67
1:A:128:PRO:HG2	1:A:129:THR:CB	2.23	0.67
1:A:151:THR:O	1:A:155:CYS:N	2.26	0.67
1:A:183:PHE:HE2	1:A:184:TYR:HE1	1.37	0.67
1:A:283:GLN:HA	1:A:286:SER:CB	2.16	0.67
1:A:292:ILE:HA	1:A:295:GLN:HB3	1.76	0.67
1:A:448:ASP:C	1:A:455:PRO:HD3	2.15	0.67
1:A:599:ASN:HD21	1:A:600:LYS:HD2	1.60	0.67
1:A:721:HIS:O	1:A:724:ARG:N	2.27	0.67
1:B:62:ASP:CG	1:B:63:PRO:HD2	2.15	0.67
1:B:172:TYR:OH	1:B:579:PRO:HG3	1.95	0.67
1:B:284:LEU:HD23	1:B:284:LEU:C	2.14	0.67
1:B:284:LEU:CD2	1:B:290:LEU:HD23	2.18	0.67
1:B:288:LEU:O	1:B:291:PHE:N	2.28	0.67
1:B:294:TYR:CZ	1:B:516:LEU:HD11	2.29	0.67
1:B:349:ILE:CD1	1:B:351:HIS:H	2.07	0.67
1:B:373:PHE:CZ	1:B:624:LEU:HB2	2.30	0.67
1:B:544:GLU:HB3	1:B:547:GLU:HG2	1.76	0.67
1:B:583:ALA:HB3	1:B:585:THR:N	2.09	0.67
1:B:651:ARG:CZ	1:B:660:LYS:CG	2.53	0.67
1:B:695:GLN:O	1:B:698:ILE:HG13	1.94	0.67
1:A:35:GLN:CB	1:A:263:PRO:HB2	2.24	0.67
1:A:107:THR:CG2	1:A:226:SER:OG	2.43	0.67
1:A:119:LYS:C	1:A:219:ALA:HA	2.15	0.67
1:A:411:SER:OG	1:A:415:LYS:HD3	1.94	0.67
1:A:462:LEU:HG	1:A:483:MET:SD	2.35	0.67
1:A:476:SER:C	1:A:479:LEU:H	1.98	0.67
1:A:597:ILE:CD1	1:A:598:ARG:N	2.56	0.67
1:B:42:ARG:HD2	1:B:337:ASN:N	2.08	0.67
1:B:44:PHE:CG	1:B:333:LEU:HD22	2.28	0.67
1:B:165:LEU:O	1:B:165:LEU:HD13	1.95	0.67
1:B:177:THR:OG1	1:B:178:ALA:N	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:182:ASN:O	1:B:186:LEU:CD1	2.42	0.67
1:B:245:ASP:O	1:B:249:VAL:N	2.25	0.67
1:B:341:SER:C	1:B:342:TYR:CG	2.63	0.67
1:B:396:ARG:HB3	1:B:612:LEU:HD21	1.76	0.67
1:B:408:PHE:HB3	1:B:632:ILE:CD1	2.24	0.67
1:B:561:LEU:HD23	1:B:561:LEU:N	2.09	0.67
1:B:568:LEU:HD13	1:B:572:THR:HA	1.75	0.67
1:B:623:ILE:HD13	1:B:624:LEU:C	2.15	0.67
1:B:695:GLN:HA	1:B:698:ILE:CG1	2.24	0.67
1:A:40:PHE:CB	1:A:288:LEU:C	2.46	0.67
1:A:278:THR:OG1	1:A:281:ILE:HG13	1.95	0.67
1:A:281:ILE:O	1:A:282:ASP:C	2.26	0.67
1:A:523:ARG:NE	1:A:524:THR:C	2.48	0.67
1:A:587:PHE:CE2	1:A:621:VAL:CA	2.76	0.67
1:A:674:LEU:O	1:A:677:LYS:HE2	1.94	0.67
1:B:69:LEU:HG	1:B:172:TYR:CG	2.29	0.67
1:B:81:SER:HB2	1:B:188:ASP:OD2	1.95	0.67
1:B:107:THR:O	1:B:110:ILE:HB	1.95	0.67
1:B:146:PHE:HA	1:B:149:ILE:HB	1.76	0.67
1:B:165:LEU:C	1:B:165:LEU:HD22	2.14	0.67
1:B:171:VAL:HG13	1:B:578:TRP:N	2.10	0.67
1:B:349:ILE:HD12	1:B:351:HIS:N	2.08	0.67
1:B:393:ILE:O	1:B:397:MET:HG3	1.94	0.67
1:B:462:LEU:HD12	1:B:463:ARG:CG	2.24	0.67
1:B:602:TYR:HA	1:B:701:GLN:NE2	2.10	0.67
1:B:628:VAL:C	1:B:631:ALA:H	1.97	0.67
1:A:51:GLU:HB3	1:A:174:VAL:CG2	2.23	0.67
1:A:250:VAL:C	1:A:253:VAL:HG12	2.14	0.67
1:A:350:ASP:OD1	1:A:351:HIS:CB	2.32	0.67
1:B:269:LEU:HD13	1:B:271:PRO:CD	2.24	0.67
1:B:401:LEU:CA	1:B:404:ILE:CG1	2.53	0.67
1:B:437:MET:HE2	1:B:550:ALA:HA	1.77	0.67
1:B:519:VAL:C	1:B:520:TRP:HD1	1.98	0.67
1:B:593:TYR:CE2	1:B:723:ILE:HA	2.29	0.67
1:B:614:LEU:HD13	1:B:615:GLY:CA	2.22	0.67
1:B:619:GLU:CB	1:B:620:ARG:HG3	2.25	0.67
1:B:627:THR:O	1:B:631:ALA:N	2.25	0.67
1:B:663:ILE:HD12	1:B:663:ILE:C	2.15	0.67
1:A:18:GLN:CG	1:A:491:MET:HE1	2.19	0.67
1:A:49:THR:OG1	1:A:564:LYS:N	2.28	0.67
1:A:52:LEU:N	1:A:174:VAL:HG13	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:221:ALA:CA	1:A:224:LEU:HB3	2.22	0.67
1:A:281:ILE:O	1:A:285:ARG:N	2.19	0.67
1:A:448:ASP:HB3	1:A:453:ARG:HG2	1.76	0.67
1:A:498:ASN:HD22	1:A:522:VAL:HG12	1.59	0.67
1:A:593:TYR:O	1:A:604:ALA:N	2.28	0.67
1:B:42:ARG:NE	1:B:335:PRO:O	2.28	0.67
1:B:56:VAL:H	1:B:170:TYR:HB3	1.59	0.67
1:B:606:VAL:HG11	1:B:694:ALA:HB2	1.76	0.67
1:B:715:HIS:HA	1:B:719:ASN:CG	2.15	0.67
1:A:6:VAL:HG23	1:A:433:ASN:HB3	1.75	0.67
1:A:73:TYR:CE2	1:A:143:HIS:HB2	2.29	0.67
1:A:92:TYR:CZ	1:A:150:THR:HG21	2.30	0.67
1:A:108:ALA:O	1:A:112:GLY:HA3	1.94	0.67
1:A:183:PHE:HA	1:A:186:LEU:HD13	1.76	0.67
1:A:523:ARG:CA	1:A:539:SER:HB2	2.25	0.67
1:A:553:LYS:O	1:A:555:ILE:HG23	1.95	0.67
1:A:692:HIS:O	1:A:695:GLN:N	2.27	0.67
1:B:97:ALA:CB	1:B:234:THR:HG21	2.25	0.67
1:B:114:SER:HB3	1:B:117:ALA:HB2	1.76	0.67
1:B:128:PRO:CA	1:B:131:ILE:CG2	2.73	0.67
1:B:187:VAL:HG12	1:B:247:ASN:HA	1.77	0.67
1:B:225:ILE:HG22	1:B:228:HIS:ND1	2.10	0.67
1:B:232:ALA:O	1:B:236:ALA:N	2.27	0.67
1:B:368:LYS:HD2	1:B:368:LYS:N	2.06	0.67
1:B:578:TRP:HD1	1:B:579:PRO:HD2	1.59	0.67
1:B:703:ALA:C	1:B:708:ILE:HD11	2.16	0.67
1:A:36:LEU:CA	1:A:263:PRO:HA	2.24	0.67
1:A:100:PRO:HG2	1:A:101:GLU:H	1.60	0.67
1:A:244:PHE:CE2	1:A:317:ILE:CD1	2.78	0.67
1:A:348:ALA:O	1:A:349:ILE:C	2.32	0.67
1:A:533:ASN:ND2	1:A:541:ARG:CZ	2.58	0.67
1:A:654:SER:N	1:A:655:ARG:CB	2.57	0.67
1:B:53:LEU:HD23	1:B:53:LEU:C	2.15	0.67
1:B:288:LEU:CG	1:B:292:ILE:HD11	2.25	0.67
1:B:298:VAL:C	1:B:302:GLY:H	1.99	0.67
1:B:376:VAL:O	1:B:378:LEU:CD1	2.43	0.67
1:B:651:ARG:HG3	1:B:663:ILE:HG12	1.75	0.67
1:A:300:GLN:NE2	1:A:300:GLN:H	1.92	0.67
1:A:520:TRP:CZ3	1:A:545:PRO:HD3	2.29	0.67
1:A:649:ALA:HA	1:A:652:ARG:NH1	2.10	0.67
1:A:729:LEU:O	1:A:733:GLN:N	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:54:TRP:HD1	1:B:69:LEU:CD1	1.99	0.67
1:B:92:TYR:CD2	1:B:146:PHE:CD1	2.83	0.67
1:B:260:LEU:CD2	1:B:285:ARG:HB3	2.24	0.67
1:B:339:THR:OG1	1:B:496:ALA:HB1	1.95	0.67
1:B:339:THR:O	1:B:340:THR:HG23	1.95	0.67
1:B:456:MET:HE1	1:B:637:TYR:OH	1.94	0.67
1:B:705:ARG:CB	1:B:707:LEU:HD11	2.24	0.67
1:B:745:ALA:CA	1:B:748:LYS:HD3	2.25	0.67
1:A:25:LEU:H	1:A:26:LYS:NZ	1.92	0.66
1:A:213:THR:OG1	1:A:215:LYS:O	2.13	0.66
1:A:268:GLU:OE1	1:A:269:LEU:HG	1.95	0.66
1:A:448:ASP:CG	1:A:455:PRO:HG3	2.16	0.66
1:A:521:ASN:HA	1:A:540:ILE:O	1.95	0.66
1:A:577:ILE:HB	1:A:579:PRO:HD2	1.75	0.66
1:A:599:ASN:ND2	1:A:600:LYS:HD2	2.09	0.66
1:B:82:VAL:CG2	1:B:188:ASP:HB3	2.25	0.66
1:B:128:PRO:HA	1:B:131:ILE:CG2	2.25	0.66
1:B:164:ILE:HG23	1:B:165:LEU:N	2.09	0.66
1:B:610:GLU:OE1	1:B:611:LEU:N	2.28	0.66
1:A:36:LEU:CB	1:A:263:PRO:N	2.46	0.66
1:A:179:THR:H	1:A:485:ASN:ND2	1.94	0.66
1:A:292:ILE:CA	1:A:295:GLN:HB3	2.25	0.66
1:A:303:ARG:HB2	1:A:303:ARG:HH11	1.60	0.66
1:A:333:LEU:C	1:A:333:LEU:HD13	2.15	0.66
1:A:345:GLN:N	1:A:360:VAL:HB	2.08	0.66
1:A:476:SER:O	1:A:478:ASP:C	2.34	0.66
1:A:485:ASN:O	1:A:488:ALA:HB3	1.95	0.66
1:A:499:PRO:O	1:A:500:GLU:OE1	2.12	0.66
1:A:585:THR:O	1:A:622:ARG:HA	1.95	0.66
1:B:38:LEU:HD21	1:B:501:VAL:O	1.95	0.66
1:B:156:HIS:CD2	1:B:157:VAL:HG23	2.27	0.66
1:A:250:VAL:C	1:A:252:SER:N	2.49	0.66
1:A:349:ILE:O	1:A:350:ASP:HB3	1.95	0.66
1:A:349:ILE:CD1	1:A:357:HIS:H	2.08	0.66
1:A:748:LYS:HA	1:A:748:LYS:HZ3	1.58	0.66
1:B:70:PHE:O	1:B:85:LEU:HD13	1.96	0.66
1:B:100:PRO:HG2	1:B:101:GLU:OE1	1.94	0.66
1:B:308:PHE:HZ	1:B:318:ILE:CA	2.07	0.66
1:B:606:VAL:HG21	1:B:693:LEU:CD2	2.24	0.66
1:B:724:ARG:HA	1:B:724:ARG:CZ	2.25	0.66
1:A:38:LEU:HD21	1:A:39:GLN:O	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:272:SER:O	1:A:275:LEU:CB	2.44	0.66
1:A:364:TRP:HA	1:A:364:TRP:CE3	2.30	0.66
1:A:388:ASP:OD2	1:A:389:VAL:N	2.20	0.66
1:A:617:ARG:CD	1:A:618:ARG:O	2.43	0.66
1:B:6:VAL:HG21	1:B:530:VAL:CA	2.23	0.66
1:B:51:GLU:CD	1:B:565:VAL:H	1.99	0.66
1:B:73:TYR:O	1:B:76:ALA:HB3	1.95	0.66
1:B:216:ALA:H	1:B:220:LEU:CD1	2.09	0.66
1:B:271:PRO:O	1:B:276:ARG:HD2	1.95	0.66
1:B:346:THR:O	1:B:359:VAL:HB	1.94	0.66
1:B:479:LEU:O	1:B:483:MET:HG3	1.95	0.66
1:B:520:TRP:O	1:B:541:ARG:HA	1.95	0.66
1:B:523:ARG:HA	1:B:538:GLY:O	1.94	0.66
1:B:580:TRP:CE2	1:B:581:HIS:ND1	2.59	0.66
1:A:252:SER:HG	1:A:308:PHE:HE1	1.44	0.66
1:A:663:ILE:HD12	1:A:663:ILE:C	2.15	0.66
1:B:86:VAL:HG21	1:B:191:ARG:O	1.94	0.66
1:B:101:GLU:HA	1:B:104:ARG:CB	2.26	0.66
1:B:190:VAL:CG1	1:B:323:GLU:CG	2.69	0.66
1:B:257:LEU:HD22	1:B:290:LEU:CG	2.21	0.66
1:B:289:ALA:HB2	1:B:492:HIS:NE2	2.10	0.66
1:B:356:SER:CB	1:B:435:ALA:HA	2.24	0.66
1:B:661:LEU:HD23	1:B:661:LEU:C	2.16	0.66
1:A:52:LEU:O	1:A:174:VAL:HG13	1.95	0.66
1:A:278:THR:HG1	1:A:281:ILE:HG13	1.60	0.66
1:A:361:TYR:HE2	1:A:410:VAL:HG11	1.60	0.66
1:A:555:ILE:O	1:A:556:GLN:HB3	1.95	0.66
1:A:676:ARG:HA	1:A:679:GLU:CD	2.16	0.66
1:A:716:VAL:HG23	1:A:717:GLY:N	2.11	0.66
1:B:244:PHE:CZ	1:B:318:ILE:HG23	2.31	0.66
1:B:288:LEU:HD23	1:B:292:ILE:HD11	1.75	0.66
1:B:371:THR:O	1:B:623:ILE:HB	1.96	0.66
1:B:404:ILE:CB	1:B:737:LEU:HD21	2.25	0.66
1:B:490:VAL:O	1:B:494:ALA:N	2.29	0.66
1:B:501:VAL:C	1:B:502:VAL:CG1	2.63	0.66
1:A:68:ARG:NH1	1:A:329:SER:HA	2.09	0.66
1:A:180:TYR:CB	1:A:331:PHE:HA	2.25	0.66
1:A:455:PRO:O	1:A:458:ALA:HB3	1.96	0.66
1:A:523:ARG:CG	1:A:524:THR:N	2.58	0.66
1:B:43:THR:HG21	1:B:289:ALA:H	1.60	0.66
1:B:58:LYS:HG2	1:B:59:GLY:H	1.58	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:334:ARG:CD	1:B:335:PRO:HD3	2.10	0.66
1:B:400:THR:CG2	1:B:686:ILE:HD13	2.24	0.66
1:B:506:HIS:CA	1:B:507:GLN:CB	2.73	0.66
1:B:584:SER:C	1:B:585:THR:HG22	2.16	0.66
1:B:678:ILE:HD12	1:B:678:ILE:C	2.16	0.66
1:A:20:PHE:HD1	1:A:299:LYS:HZ3	1.44	0.66
1:A:159:SER:N	1:A:163:PHE:O	2.28	0.66
1:A:187:VAL:HA	1:A:190:VAL:HG23	1.76	0.66
1:A:259:ARG:CD	1:A:266:PRO:HB3	2.25	0.66
1:A:268:GLU:OE1	1:A:269:LEU:CA	2.43	0.66
1:A:420:VAL:HG11	1:A:643:ASP:OD2	1.96	0.66
1:A:639:TRP:C	1:A:641:VAL:N	2.43	0.66
1:B:101:GLU:HB3	1:B:105:LYS:HD3	1.77	0.66
1:B:437:MET:SD	1:B:550:ALA:HB1	2.36	0.66
1:B:451:LEU:C	1:B:453:ARG:HD2	2.15	0.66
1:B:672:VAL:O	1:B:675:LEU:HD13	1.95	0.66
1:B:729:LEU:CD2	1:B:732:LEU:HD13	2.25	0.66
1:B:754:ASN:O	1:B:756:LEU:N	2.23	0.66
1:B:759:VAL:C	1:B:760:VAL:HG23	2.16	0.66
1:A:34:LEU:CD1	1:A:35:GLN:HG3	2.25	0.66
1:A:128:PRO:HG2	1:A:129:THR:OG1	1.96	0.66
1:A:193:SER:C	1:A:196:ARG:HB2	2.15	0.66
1:A:201:ALA:CA	1:A:204:SER:HB3	2.24	0.66
1:A:334:ARG:HG3	1:A:335:PRO:HD2	1.78	0.66
1:A:501:VAL:HB	1:A:518:LEU:CD1	2.17	0.66
1:A:503:VAL:CG2	1:A:519:VAL:HB	2.23	0.66
1:A:597:ILE:HD13	1:A:598:ARG:HD3	1.76	0.66
1:B:270:ASP:N	1:B:270:ASP:OD1	2.29	0.66
1:B:396:ARG:CD	1:B:612:LEU:CD2	2.57	0.66
1:B:501:VAL:CG1	1:B:502:VAL:H	2.03	0.66
1:B:510:ALA:HB3	1:B:511:ALA:C	2.17	0.66
1:B:642:GLU:CG	1:B:645:ARG:HH12	2.02	0.66
1:B:721:HIS:HD2	1:B:757:GLY:CA	2.09	0.66
1:A:355:PRO:HG3	1:A:529:PRO:CG	2.25	0.66
1:A:361:TYR:CG	1:A:362:GLU:N	2.52	0.66
1:A:365:GLN:HE21	1:A:367:ALA:C	1.99	0.66
1:A:498:ASN:HB3	1:A:522:VAL:HG11	1.77	0.66
1:A:532:TYR:HE1	1:A:541:ARG:NH1	1.93	0.66
1:A:589:TYR:CE2	1:A:591:ASP:HB2	2.31	0.66
1:B:36:LEU:CB	1:B:37:PRO:CD	2.74	0.66
1:B:184:TYR:O	1:B:187:VAL:HG23	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:600:LYS:HE3	1:B:707:LEU:CD2	2.25	0.66
1:A:38:LEU:HD23	1:A:39:GLN:CA	2.27	0.65
1:A:47:SER:H	1:A:48:MET:HE1	1.61	0.65
1:A:259:ARG:O	1:A:266:PRO:HG3	1.95	0.65
1:A:298:VAL:HG21	1:A:515:SER:CA	2.26	0.65
1:A:386:PHE:CE1	1:A:576:HIS:CD2	2.84	0.65
1:A:386:PHE:CZ	1:A:576:HIS:CD2	2.85	0.65
1:A:723:ILE:HD13	1:A:723:ILE:O	1.96	0.65
1:B:4:LEU:HA	1:B:5:LYS:CG	2.16	0.65
1:B:125:LYS:H	1:B:165:LEU:CG	2.09	0.65
1:A:272:SER:CB	1:A:275:LEU:HD13	2.26	0.65
1:A:346:THR:CB	1:A:358:VAL:CA	2.70	0.65
1:A:553:LYS:HA	1:A:553:LYS:HZ1	1.61	0.65
1:A:653:THR:CG2	1:A:655:ARG:HG3	2.26	0.65
1:B:33:ALA:O	1:B:35:GLN:CD	2.33	0.65
1:B:37:PRO:O	1:B:261:TRP:HZ3	1.78	0.65
1:B:96:THR:HG23	1:B:237:PHE:CG	2.31	0.65
1:B:107:THR:CA	1:B:110:ILE:HG13	2.26	0.65
1:B:158:LEU:HD23	1:B:158:LEU:C	2.17	0.65
1:B:581:HIS:HD2	1:B:582:GLU:N	1.93	0.65
1:B:681:ILE:HG22	1:B:731:VAL:HG11	0.67	0.65
1:B:710:ASP:OD1	1:B:710:ASP:N	2.24	0.65
1:B:715:HIS:HA	1:B:719:ASN:HB3	1.78	0.65
1:A:40:PHE:HE2	1:A:291:PHE:H	1.41	0.65
1:A:87:ASN:OD1	1:A:191:ARG:CZ	2.43	0.65
1:A:106:LEU:CD2	1:A:135:LEU:HD21	2.17	0.65
1:A:129:THR:O	1:A:132:LEU:HB3	1.96	0.65
1:A:176:ARG:NH1	1:A:446:GLU:CB	2.58	0.65
1:A:195:LEU:HD21	1:A:199:LEU:HG	1.67	0.65
1:A:217:LYS:HG3	1:A:218:GLY:N	2.12	0.65
1:A:281:ILE:HD12	1:A:281:ILE:C	2.17	0.65
1:A:524:THR:HG23	1:A:539:SER:C	2.16	0.65
1:A:630:HIS:CA	1:A:737:LEU:CD1	2.72	0.65
1:A:747:THR:HA	1:A:750:LEU:CD2	2.27	0.65
1:B:14:ARG:CD	1:B:26:LYS:HD2	2.26	0.65
1:B:52:LEU:HD13	1:B:53:LEU:H	1.61	0.65
1:B:110:ILE:C	1:B:111:THR:HG23	2.17	0.65
1:B:127:PRO:N	1:B:128:PRO:N	2.44	0.65
1:B:186:LEU:HD12	1:B:186:LEU:H	1.61	0.65
1:B:329:SER:OG	1:B:331:PHE:HB2	1.97	0.65
1:B:467:VAL:HG23	1:B:479:LEU:HD11	1.69	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:486:TYR:O	1:B:490:VAL:HG23	1.97	0.65
1:A:164:ILE:O	1:A:165:LEU:HD22	1.95	0.65
1:A:190:VAL:CG1	1:A:249:VAL:HG21	2.25	0.65
1:A:383:ASN:O	1:A:385:ARG:HG3	1.96	0.65
1:B:396:ARG:CD	1:B:612:LEU:O	2.45	0.65
1:B:408:PHE:CZ	1:B:633:ILE:HG12	2.32	0.65
1:B:651:ARG:NE	1:B:660:LYS:HG2	2.11	0.65
1:A:300:GLN:H	1:A:300:GLN:HE21	1.45	0.65
1:A:388:ASP:CG	1:A:389:VAL:HG12	2.17	0.65
1:A:758:MET:HB3	1:A:759:VAL:CA	2.26	0.65
1:B:23:GLY:HA2	1:B:299:LYS:HZ1	1.57	0.65
1:B:61:ILE:HG22	1:B:62:ASP:N	2.06	0.65
1:B:191:ARG:HB2	1:B:191:ARG:HH11	1.62	0.65
1:B:198:MET:O	1:B:202:LEU:HD13	1.97	0.65
1:B:201:ALA:HA	1:B:204:SER:OG	1.96	0.65
1:B:359:VAL:HG22	1:B:418:THR:HG22	1.79	0.65
1:B:590:GLU:CB	1:B:607:LYS:HD2	2.26	0.65
1:B:719:ASN:ND2	1:B:720:ARG:HG3	2.11	0.65
1:A:2:PHE:CE1	1:A:459:ILE:HG23	2.30	0.65
1:A:6:VAL:O	1:A:9:LEU:HD22	1.97	0.65
1:A:352:MET:HE1	1:A:428:GLY:N	2.08	0.65
1:A:352:MET:H	1:A:353:GLY:HA2	1.56	0.65
1:A:624:LEU:CB	1:A:626:PRO:HG3	2.26	0.65
1:A:659:GLU:O	1:A:663:ILE:HG23	1.96	0.65
1:A:690:ALA:HA	1:A:693:LEU:CD2	2.27	0.65
1:B:13:ALA:HB1	1:B:16:LEU:HD22	1.79	0.65
1:B:233:ALA:O	1:B:236:ALA:HB3	1.96	0.65
1:B:575:ILE:CG2	1:B:576:HIS:HB2	2.27	0.65
1:B:733:GLN:HG3	1:B:734:MET:HE1	1.77	0.65
1:A:24:GLU:OE2	1:A:508:GLY:HA2	1.96	0.65
1:A:493:TYR:OH	1:A:546:LEU:HD13	1.97	0.65
1:A:34:LEU:HB3	1:A:503:VAL:O	1.96	0.65
1:A:154:VAL:O	1:A:158:LEU:HB2	1.97	0.65
1:A:187:VAL:HG12	1:A:246:ALA:C	2.12	0.65
1:A:472:GLU:N	1:A:475:ALA:HB3	2.12	0.65
1:A:527:ARG:CZ	1:A:528:ILE:CD1	2.68	0.65
1:A:535:ILE:HG13	1:A:535:ILE:O	1.96	0.65
1:A:541:ARG:HE	1:A:541:ARG:H	1.45	0.65
1:B:69:LEU:CD1	1:B:172:TYR:CE1	2.80	0.65
1:B:131:ILE:CD1	1:B:134:GLN:HB3	2.26	0.65
1:B:141:SER:HB3	1:B:147:HIS:HB2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:312:GLU:HG3	1:B:313:LEU:HG	1.78	0.65
1:B:321:PHE:CZ	1:B:326:SER:OG	2.47	0.65
1:B:339:THR:HG21	1:B:496:ALA:HB2	1.79	0.65
1:B:371:THR:OG1	1:B:623:ILE:CD1	2.45	0.65
1:B:608:GLU:C	1:B:609:PHE:HD1	2.01	0.65
1:A:24:GLU:HA	1:A:26:LYS:CG	2.26	0.65
1:A:34:LEU:HG	1:A:35:GLN:CB	2.27	0.65
1:A:40:PHE:HD1	1:A:41:THR:N	1.95	0.65
1:A:56:VAL:HG12	1:A:152:ASP:OD2	1.97	0.65
1:A:498:ASN:HB3	1:A:522:VAL:HG12	1.78	0.65
1:A:729:LEU:O	1:A:729:LEU:HD13	1.97	0.65
1:B:49:THR:HG23	1:B:176:ARG:CB	2.27	0.65
1:B:346:THR:O	1:B:358:VAL:O	2.14	0.65
1:B:408:PHE:CB	1:B:632:ILE:HD11	2.26	0.65
1:A:173:ARG:CG	1:A:579:PRO:HG3	2.25	0.65
1:A:262:SER:O	1:A:263:PRO:O	2.14	0.65
1:A:348:ALA:O	1:A:349:ILE:O	2.15	0.65
1:A:510:ALA:HB1	1:A:511:ALA:CB	2.27	0.65
1:A:542:THR:CG2	1:A:544:GLU:HB3	2.26	0.65
1:A:547:GLU:HA	1:A:550:ALA:HB2	1.78	0.65
1:A:729:LEU:CD2	1:A:738:LEU:CD1	2.75	0.65
1:B:4:LEU:HB3	1:B:5:LYS:CB	2.20	0.65
1:B:171:VAL:HG13	1:B:577:ILE:C	2.17	0.65
1:B:173:ARG:CG	1:B:566:LEU:CD1	2.74	0.65
1:B:309:SER:OG	1:B:315:SER:HB2	1.93	0.65
1:B:322:ILE:HG23	1:B:323:GLU:OE1	1.97	0.65
1:B:408:PHE:CE1	1:B:633:ILE:CD1	2.80	0.65
1:A:20:PHE:HD1	1:A:299:LYS:NZ	1.96	0.64
1:A:732:LEU:CA	1:A:738:LEU:HD21	2.27	0.64
1:B:173:ARG:HG3	1:B:566:LEU:HD12	1.79	0.64
1:B:426:GLN:HE22	1:B:427:ARG:HE	1.45	0.64
1:B:582:GLU:OE1	1:B:624:LEU:HD13	1.97	0.64
1:B:650:ALA:O	1:B:654:SER:N	2.28	0.64
1:A:40:PHE:HD2	1:A:291:PHE:CB	2.02	0.64
1:A:109:TYR:C	1:A:110:ILE:HD12	2.18	0.64
1:A:170:TYR:HA	1:A:576:HIS:HE1	1.60	0.64
1:A:234:THR:CG2	1:A:237:PHE:HB3	2.27	0.64
1:A:605:GLU:HG2	1:A:607:LYS:NZ	2.12	0.64
1:B:84:GLU:HA	1:B:87:ASN:ND2	2.11	0.64
1:B:103:TRP:HE1	1:B:231:ASN:HA	1.62	0.64
1:B:173:ARG:CG	1:B:566:LEU:HD12	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:192:ALA:CB	1:B:328:VAL:HG21	2.27	0.64
1:B:255:THR:O	1:B:259:ARG:HD3	1.98	0.64
1:B:456:MET:HG3	1:B:457:VAL:N	2.12	0.64
1:B:527:ARG:N	1:B:527:ARG:HD2	2.13	0.64
1:B:705:ARG:O	1:B:709:ASP:HB2	1.97	0.64
1:B:732:LEU:HD23	1:B:732:LEU:C	2.17	0.64
1:A:7:LYS:H	1:A:433:ASN:CG	1.96	0.64
1:A:213:THR:HG21	1:A:220:LEU:HD22	1.80	0.64
1:A:442:PRO:CD	1:A:443:SER:H	2.10	0.64
1:A:602:TYR:CD2	1:A:702:MET:HE1	2.33	0.64
1:A:654:SER:HB3	1:A:659:GLU:OE2	1.96	0.64
1:A:685:GLY:HA2	1:A:687:GLY:N	2.11	0.64
1:B:190:VAL:CG1	1:B:323:GLU:CB	2.70	0.64
1:B:282:ASP:HA	1:B:285:ARG:CG	2.27	0.64
1:B:314:SER:OG	1:B:319:PRO:HD2	1.97	0.64
1:B:647:LEU:HD13	1:B:647:LEU:C	2.17	0.64
1:A:6:VAL:CG1	1:A:531:GLY:H	2.07	0.64
1:A:344:GLY:HA3	1:A:361:TYR:C	2.18	0.64
1:A:520:TRP:CE2	1:A:545:PRO:HG3	2.32	0.64
1:A:524:THR:CB	1:A:539:SER:HA	2.26	0.64
1:A:544:GLU:HG2	1:A:547:GLU:CG	2.28	0.64
1:B:45:SER:HA	1:B:181:PRO:HG3	1.79	0.64
1:B:171:VAL:CG2	1:B:575:ILE:HD13	2.26	0.64
1:B:183:PHE:CD1	1:B:250:VAL:HG12	2.32	0.64
1:B:246:ALA:HA	1:B:249:VAL:HG12	1.80	0.64
1:B:348:ALA:C	1:B:354:GLN:O	2.34	0.64
1:B:400:THR:HG21	1:B:686:ILE:CD1	2.27	0.64
1:B:533:ASN:ND2	1:B:551:TYR:HE2	1.94	0.64
1:B:602:TYR:HE2	1:B:714:LEU:HD11	1.62	0.64
1:B:754:ASN:N	1:B:754:ASN:OD1	2.30	0.64
1:A:52:LEU:O	1:A:174:VAL:N	2.31	0.64
1:A:60:ASN:OD1	1:A:156:HIS:O	2.15	0.64
1:A:346:THR:CB	1:A:359:VAL:N	2.61	0.64
1:A:361:TYR:O	1:A:362:GLU:CB	2.46	0.64
1:A:503:VAL:HG13	1:A:504:SER:N	2.11	0.64
1:A:566:LEU:HD11	1:A:568:LEU:HD12	1.79	0.64
1:A:568:LEU:O	1:A:572:THR:N	2.27	0.64
1:A:591:ASP:O	1:A:606:VAL:N	2.29	0.64
1:A:607:LYS:H	1:A:610:GLU:CD	2.00	0.64
1:A:649:ALA:HA	1:A:652:ARG:HG3	1.78	0.64
1:B:35:GLN:HG2	1:B:502:VAL:C	2.18	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:51:GLU:HB2	1:B:564:LYS:NZ	2.13	0.64
1:B:71:PHE:HE2	1:B:329:SER:CB	2.09	0.64
1:B:182:ASN:O	1:B:185:ALA:N	2.31	0.64
1:B:183:PHE:CD2	1:B:184:TYR:CE1	2.86	0.64
1:B:209:MET:HG3	1:B:225:ILE:HG22	1.78	0.64
1:B:215:LYS:HA	1:B:215:LYS:NZ	2.11	0.64
1:B:415:LYS:CE	1:B:416:ASN:HA	2.11	0.64
1:B:510:ALA:HB3	1:B:511:ALA:HA	1.77	0.64
1:B:510:ALA:HB3	1:B:511:ALA:O	1.98	0.64
1:B:540:ILE:CD1	1:B:552:ASN:OD1	2.45	0.64
1:B:564:LYS:O	1:B:565:VAL:HG22	1.97	0.64
1:B:755:ALA:O	1:B:758:MET:HG3	1.97	0.64
1:A:56:VAL:HG22	1:A:66:TYR:HE1	1.61	0.64
1:A:404:ILE:HD13	1:A:681:ILE:CD1	2.26	0.64
1:A:540:ILE:HG22	1:A:541:ARG:HE	1.62	0.64
1:A:593:TYR:HB3	1:A:726:TRP:NE1	2.13	0.64
1:A:629:ALA:HB3	1:A:735:MET:HE3	1.80	0.64
1:B:22:ILE:HG13	1:B:516:LEU:O	1.97	0.64
1:B:341:SER:HB2	1:B:558:SER:HB3	1.79	0.64
1:B:371:THR:CB	1:B:623:ILE:HG12	2.28	0.64
1:B:564:LYS:O	1:B:565:VAL:HG13	1.97	0.64
1:B:702:MET:CE	1:B:714:LEU:HG	2.28	0.64
1:A:51:GLU:HA	1:A:174:VAL:HG21	1.79	0.64
1:A:164:ILE:O	1:A:165:LEU:HD13	1.97	0.64
1:A:439:LEU:HG	1:A:439:LEU:O	1.96	0.64
1:A:597:ILE:HD11	1:A:600:LYS:HD3	1.80	0.64
1:B:96:THR:HG23	1:B:237:PHE:CB	2.28	0.64
1:B:146:PHE:O	1:B:150:THR:N	2.22	0.64
1:B:354:GLN:HG3	1:B:528:ILE:CG2	2.27	0.64
1:B:361:TYR:HB3	1:B:414:VAL:CG2	2.26	0.64
1:B:384:GLN:HA	1:B:577:ILE:HG22	1.80	0.64
1:B:424:VAL:O	1:B:425:SER:HB2	1.97	0.64
1:A:164:ILE:C	1:A:164:ILE:HD12	2.18	0.64
1:A:195:LEU:HD23	1:A:199:LEU:CG	2.19	0.64
1:A:196:ARG:O	1:A:197:ARG:CZ	2.46	0.64
1:A:244:PHE:CD2	1:A:317:ILE:HD11	2.33	0.64
1:A:422:GLU:CD	1:B:116:ARG:CG	2.65	0.64
1:B:53:LEU:CD2	1:B:571:HIS:HE1	1.75	0.64
1:B:63:PRO:HB3	1:B:199:LEU:HB2	1.80	0.64
1:B:82:VAL:HG23	1:B:188:ASP:CG	2.18	0.64
1:B:143:HIS:HB3	1:B:145:LEU:HD21	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:404:ILE:CD1	1:B:737:LEU:HD22	2.04	0.64
1:B:597:ILE:HB	1:B:714:LEU:HA	1.78	0.64
1:B:619:GLU:HB3	1:B:620:ARG:HA	1.78	0.64
1:B:705:ARG:HB2	1:B:707:LEU:CD1	2.28	0.64
1:A:64:VAL:HG11	1:A:196:ARG:NE	2.12	0.64
1:A:232:ALA:O	1:A:236:ALA:CA	2.46	0.64
1:A:343:ILE:O	1:A:557:PRO:HB3	1.96	0.64
1:A:378:LEU:H	1:A:378:LEU:HD12	1.61	0.64
1:A:457:VAL:O	1:A:460:ALA:N	2.31	0.64
1:A:520:TRP:O	1:A:542:THR:N	2.31	0.64
1:B:182:ASN:ND2	1:B:183:PHE:H	1.96	0.64
1:B:628:VAL:HA	1:B:631:ALA:CB	2.28	0.64
1:A:9:LEU:HD11	1:A:547:GLU:OE2	1.98	0.64
1:A:23:GLY:C	1:A:26:LYS:HZ1	1.95	0.64
1:A:38:LEU:N	1:A:501:VAL:HB	2.13	0.64
1:A:487:TYR:O	1:A:490:VAL:HG22	1.98	0.64
1:A:583:ALA:O	1:A:625:LYS:HE3	1.97	0.64
1:A:678:ILE:O	1:A:679:GLU:C	2.33	0.64
1:A:732:LEU:HG	1:A:738:LEU:HD22	1.55	0.64
1:B:24:GLU:O	1:B:25:LEU:HD22	1.97	0.64
1:B:123:VAL:CA	1:B:163:PHE:HD2	2.12	0.64
1:B:128:PRO:HA	1:B:131:ILE:N	2.13	0.64
1:B:364:TRP:CZ2	1:B:628:VAL:HG22	2.33	0.64
1:B:426:GLN:NE2	1:B:427:ARG:HE	1.95	0.64
1:A:38:LEU:H	1:A:501:VAL:HB	1.64	0.63
1:A:39:GLN:HG2	1:A:499:PRO:CB	2.16	0.63
1:A:107:THR:C	1:A:112:GLY:HA3	2.18	0.63
1:A:186:LEU:HD12	1:A:186:LEU:N	2.13	0.63
1:A:422:GLU:OE2	1:B:116:ARG:HG3	1.98	0.63
1:A:581:HIS:CE1	1:A:584:SER:HA	2.32	0.63
1:A:689:SER:O	1:A:693:LEU:HD13	1.98	0.63
1:B:136:ARG:HD3	1:B:147:HIS:CD2	2.33	0.63
1:B:204:SER:O	1:B:208:LYS:CB	2.40	0.63
1:B:272:SER:O	1:B:276:ARG:HB2	1.98	0.63
1:B:566:LEU:O	1:B:566:LEU:HD23	1.98	0.63
1:B:570:ASN:HD22	1:B:571:HIS:N	1.96	0.63
1:B:578:TRP:CD1	1:B:579:PRO:HD2	2.33	0.63
1:B:606:VAL:HG22	1:B:607:LYS:O	1.98	0.63
1:B:623:ILE:O	1:B:625:LYS:HG3	1.97	0.63
1:A:133:GLU:HA	1:A:136:ARG:HB3	1.80	0.63
1:A:281:ILE:CD1	1:A:282:ASP:N	2.61	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:349:ILE:HG23	1:A:353:GLY:O	1.98	0.63
1:A:689:SER:O	1:A:693:LEU:HD22	1.97	0.63
1:B:102:ILE:HG13	1:B:103:TRP:HE3	1.61	0.63
1:B:377:LYS:CA	1:B:385:ARG:CD	2.76	0.63
1:B:400:THR:CG2	1:B:686:ILE:HG23	2.29	0.63
1:B:625:LYS:H	1:B:625:LYS:CE	2.10	0.63
1:A:115:ASN:O	1:A:116:ARG:CD	2.45	0.63
1:A:510:ALA:HB3	1:A:511:ALA:HB2	1.79	0.63
1:A:530:VAL:HG22	1:A:531:GLY:N	2.12	0.63
1:A:716:VAL:C	1:A:720:ARG:CB	2.61	0.63
1:B:362:GLU:CA	1:B:441:PHE:HA	2.24	0.63
1:B:753:SER:C	1:B:755:ALA:N	2.51	0.63
1:A:128:PRO:HG3	1:A:166:PRO:O	1.99	0.63
1:A:190:VAL:HG21	1:A:246:ALA:O	1.98	0.63
1:A:195:LEU:C	1:A:199:LEU:HB2	2.17	0.63
1:A:729:LEU:CD1	1:A:733:GLN:CB	2.73	0.63
1:B:5:LYS:HA	1:B:435:ALA:N	2.07	0.63
1:B:156:HIS:HE2	1:B:210:LEU:HD22	1.61	0.63
1:B:364:TRP:HB3	1:B:410:VAL:CG1	2.27	0.63
1:B:602:TYR:HB3	1:B:701:GLN:HB3	1.81	0.63
1:B:675:LEU:HD22	1:B:675:LEU:C	2.19	0.63
1:A:62:ASP:CG	1:A:65:MET:H	2.01	0.63
1:A:716:VAL:HG22	1:B:378:LEU:HD13	1.76	0.63
1:B:14:ARG:NH2	1:B:17:THR:HG21	2.13	0.63
1:B:47:SER:H	1:B:332:LYS:NZ	1.96	0.63
1:B:101:GLU:HA	1:B:104:ARG:HB3	1.81	0.63
1:B:118:ILE:N	1:B:222:PRO:CG	2.60	0.63
1:B:476:SER:O	1:B:479:LEU:HB3	1.98	0.63
1:B:522:VAL:CB	1:B:540:ILE:HG13	2.22	0.63
1:A:42:ARG:O	1:A:289:ALA:CA	2.45	0.63
1:A:237:PHE:O	1:A:240:SER:OG	2.13	0.63
1:A:348:ALA:C	1:A:349:ILE:HG22	2.19	0.63
1:A:404:ILE:HD12	1:A:681:ILE:HG21	1.81	0.63
1:A:408:PHE:HB3	1:A:636:TRP:HD1	1.64	0.63
1:A:729:LEU:HD13	1:A:729:LEU:C	2.18	0.63
1:B:43:THR:HG21	1:B:287:ASN:CB	2.28	0.63
1:B:172:TYR:CD1	1:B:173:ARG:N	2.67	0.63
1:B:199:LEU:O	1:B:202:LEU:CA	2.46	0.63
1:B:224:LEU:O	1:B:227:GLN:HB3	1.98	0.63
1:B:228:HIS:CD2	1:B:231:ASN:HD22	2.09	0.63
1:B:236:ALA:HA	1:B:239:ARG:CB	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:703:ALA:CA	1:B:708:ILE:CD1	2.76	0.63
1:A:342:TYR:HA	1:A:559:GLU:CB	2.28	0.63
1:A:342:TYR:C	1:A:559:GLU:HG2	2.18	0.63
1:A:371:THR:HA	1:A:394:SER:HB3	1.80	0.63
1:A:444:VAL:CG2	1:A:445:VAL:H	2.08	0.63
1:A:723:ILE:HD13	1:A:723:ILE:C	2.19	0.63
1:B:69:LEU:HG	1:B:172:TYR:CE2	2.33	0.63
1:B:617:ARG:C	1:B:619:GLU:HG3	2.19	0.63
1:B:685:GLY:O	1:B:688:ALA:N	2.31	0.63
1:A:6:VAL:CG1	1:A:531:GLY:HA2	2.22	0.63
1:A:38:LEU:HD23	1:A:39:GLN:O	1.96	0.63
1:A:119:LYS:HB2	1:A:119:LYS:HZ3	1.63	0.63
1:A:159:SER:HA	1:A:164:ILE:N	2.12	0.63
1:A:181:PRO:HB2	1:A:484:PHE:CG	2.33	0.63
1:A:303:ARG:NH1	1:A:513:GLN:CG	2.62	0.63
1:A:410:VAL:HG13	1:A:411:SER:H	1.64	0.63
1:A:649:ALA:C	1:A:652:ARG:HG2	2.19	0.63
1:A:660:LYS:O	1:A:661:LEU:C	2.34	0.63
1:A:664:ASP:O	1:A:668:MET:SD	2.57	0.63
1:B:309:SER:HG	1:B:315:SER:CB	2.10	0.63
1:B:500:GLU:O	1:B:520:TRP:HB3	1.99	0.63
1:B:540:ILE:CG1	1:B:551:TYR:HB2	2.29	0.63
1:B:590:GLU:CA	1:B:608:GLU:CB	2.43	0.63
1:B:597:ILE:HD12	1:B:713:ASP:CB	2.28	0.63
1:B:607:LYS:N	1:B:609:PHE:CG	2.67	0.63
1:B:705:ARG:HB2	1:B:707:LEU:HD13	1.81	0.63
1:A:24:GLU:HA	1:A:26:LYS:HG2	1.79	0.63
1:A:30:SER:O	1:A:31:VAL:CG1	2.43	0.63
1:A:258:GLY:CA	1:A:294:TYR:HD2	2.11	0.63
1:A:673:THR:O	1:A:677:LYS:HE2	1.99	0.63
1:A:738:LEU:C	1:A:739:SER:OG	2.35	0.63
1:B:24:GLU:HA	1:B:506:HIS:CE1	2.34	0.63
1:B:321:PHE:HD1	1:B:322:ILE:N	1.73	0.63
1:B:377:LYS:HD3	1:B:377:LYS:C	2.18	0.63
1:B:712:SER:HG	1:B:715:HIS:CG	2.17	0.63
1:B:715:HIS:C	1:B:720:ARG:NH2	2.52	0.63
1:A:653:THR:O	1:A:653:THR:HG22	1.99	0.62
1:B:35:GLN:HG2	1:B:502:VAL:CG2	2.27	0.62
1:B:57:GLY:N	1:B:148:HIS:HE1	1.97	0.62
1:B:93:HIS:C	1:B:237:PHE:CZ	2.50	0.62
1:B:118:ILE:C	1:B:222:PRO:HD3	2.19	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:416:ASN:O	1:B:419:ALA:HB3	1.98	0.62
1:B:670:ASN:HD21	1:B:674:LEU:HD12	1.57	0.62
1:B:685:GLY:O	1:B:686:ILE:O	2.17	0.62
1:A:5:LYS:HB3	1:A:433:ASN:HD22	1.65	0.62
1:A:337:ASN:ND2	1:A:496:ALA:HB1	2.11	0.62
1:A:523:ARG:HA	1:A:539:SER:HB2	1.80	0.62
1:A:735:MET:HB3	1:A:737:LEU:O	1.99	0.62
1:A:742:GLU:CD	1:A:742:GLU:H	1.93	0.62
1:B:54:TRP:CD1	1:B:69:LEU:CD2	2.80	0.62
1:B:68:ARG:HH11	1:B:68:ARG:HG3	1.64	0.62
1:B:288:LEU:O	1:B:292:ILE:HD12	1.98	0.62
1:B:376:VAL:H	1:B:386:PHE:N	1.96	0.62
1:B:456:MET:HE2	1:B:637:TYR:OH	1.99	0.62
1:B:642:GLU:HG2	1:B:645:ARG:NH1	2.12	0.62
1:A:49:THR:O	1:A:50:SER:OG	2.17	0.62
1:A:154:VAL:O	1:A:158:LEU:HD13	1.97	0.62
1:A:259:ARG:C	1:A:266:PRO:HG3	2.19	0.62
1:A:493:TYR:CE1	1:A:549:ILE:HG13	2.34	0.62
1:A:582:GLU:C	1:A:625:LYS:HZ3	1.94	0.62
1:A:633:ILE:HD11	1:A:737:LEU:HD12	1.80	0.62
1:B:49:THR:HG23	1:B:176:ARG:HB3	1.81	0.62
1:B:521:ASN:HB2	1:B:541:ARG:CD	2.21	0.62
1:B:640:PHE:CA	1:B:670:ASN:OD1	2.47	0.62
1:B:707:LEU:HD22	1:B:708:ILE:N	2.14	0.62
1:A:143:HIS:O	1:A:144:GLU:O	2.17	0.62
1:A:144:GLU:OE1	1:A:145:LEU:N	2.33	0.62
1:A:157:VAL:O	1:A:160:PRO:HD2	1.99	0.62
1:A:346:THR:CG2	1:A:360:VAL:N	2.50	0.62
1:A:372:ALA:N	1:A:394:SER:OG	2.32	0.62
1:B:82:VAL:HG23	1:B:188:ASP:HB3	1.81	0.62
1:B:101:GLU:C	1:B:105:LYS:HD2	2.19	0.62
1:B:132:LEU:HD11	1:B:150:THR:CB	2.26	0.62
1:B:180:TYR:OH	1:B:492:HIS:ND1	1.82	0.62
1:B:291:PHE:CE2	1:B:503:VAL:HG21	2.34	0.62
1:B:498:ASN:C	1:B:498:ASN:HD22	2.01	0.62
1:A:61:ILE:CG2	1:A:156:HIS:NE2	2.32	0.62
1:A:252:SER:O	1:A:256:ILE:HG12	1.98	0.62
1:A:335:PRO:C	1:A:336:ILE:HD13	2.20	0.62
1:A:336:ILE:O	1:A:340:THR:HG23	1.99	0.62
1:A:685:GLY:HA2	1:A:686:ILE:C	2.19	0.62
1:A:747:THR:O	1:A:750:LEU:HG	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:748:LYS:O	1:A:748:LYS:HD3	1.99	0.62
1:B:92:TYR:HB2	1:B:146:PHE:CE2	2.34	0.62
1:B:96:THR:CG2	1:B:237:PHE:CD2	2.83	0.62
1:B:298:VAL:HG13	1:B:302:GLY:O	1.99	0.62
1:B:426:GLN:CB	1:B:427:ARG:HA	2.28	0.62
1:B:663:ILE:HD12	1:B:664:ASP:N	2.15	0.62
1:A:40:PHE:O	1:A:41:THR:HG22	2.00	0.62
1:A:45:SER:HB3	1:A:332:LYS:HA	1.80	0.62
1:A:67:ALA:HA	1:A:70:PHE:HB2	1.81	0.62
1:A:250:VAL:O	1:A:253:VAL:HG12	1.99	0.62
1:A:263:PRO:HG2	1:A:504:SER:HA	1.81	0.62
1:A:352:MET:CE	1:A:428:GLY:H	2.09	0.62
1:A:424:VAL:HG12	1:A:425:SER:O	1.98	0.62
1:A:528:ILE:HG22	1:A:530:VAL:CG1	2.29	0.62
1:A:637:TYR:OH	1:A:745:ALA:HB2	1.91	0.62
1:A:657:ASP:HA	1:A:660:LYS:HE3	1.81	0.62
1:A:677:LYS:HA	1:A:680:MET:HG3	1.80	0.62
1:A:721:HIS:HE1	1:A:760:VAL:HG13	1.64	0.62
1:B:702:MET:HA	1:B:702:MET:HE2	1.79	0.62
1:A:200:THR:O	1:A:203:SER:HB3	2.00	0.62
1:A:237:PHE:HA	1:A:240:SER:OG	1.99	0.62
1:A:274:ARG:HH11	1:A:274:ARG:CG	2.12	0.62
1:A:343:ILE:H	1:A:559:GLU:CG	2.12	0.62
1:A:731:VAL:HG13	1:A:732:LEU:N	2.14	0.62
1:A:756:LEU:O	1:A:756:LEU:CG	2.47	0.62
1:B:2:PHE:CZ	1:B:4:LEU:CD2	2.76	0.62
1:B:46:ALA:CB	1:B:178:ALA:O	2.47	0.62
1:B:68:ARG:CZ	1:B:68:ARG:HB2	2.30	0.62
1:B:160:PRO:C	1:B:161:LEU:HD13	2.20	0.62
1:B:408:PHE:CE1	1:B:413:PHE:HZ	2.17	0.62
1:B:472:GLU:O	1:B:475:ALA:N	2.32	0.62
1:B:540:ILE:CG2	1:B:542:THR:HG22	2.22	0.62
1:B:571:HIS:C	1:B:574:SER:H	2.01	0.62
1:B:696:SER:CA	1:B:699:VAL:HG23	2.23	0.62
1:B:720:ARG:C	1:B:724:ARG:NH1	2.52	0.62
1:A:374:THR:HG23	1:A:390:GLU:CG	2.24	0.62
1:A:676:ARG:O	1:A:679:GLU:HG2	2.00	0.62
1:B:43:THR:HG22	1:B:289:ALA:HB2	1.81	0.62
1:B:79:ALA:HB1	1:B:80:LEU:HD23	1.78	0.62
1:B:80:LEU:HG	1:B:84:GLU:HG3	1.80	0.62
1:B:123:VAL:HG22	1:B:124:GLY:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:361:TYR:HB3	1:B:414:VAL:CB	2.30	0.62
1:B:448:ASP:O	1:B:453:ARG:HD3	2.00	0.62
1:B:595:VAL:CG2	1:B:714:LEU:HD22	2.28	0.62
1:B:651:ARG:HE	1:B:660:LYS:CG	2.12	0.62
1:B:708:ILE:HD12	1:B:708:ILE:C	2.21	0.62
1:A:16:LEU:HD12	1:A:463:ARG:HA	1.80	0.62
1:A:62:ASP:OD2	1:A:65:MET:N	2.32	0.62
1:A:74:ALA:CB	1:A:85:LEU:HD11	2.30	0.62
1:A:99:ASN:OD1	1:A:101:GLU:OE1	2.16	0.62
1:A:105:LYS:CE	1:A:137:THR:OG1	2.46	0.62
1:B:85:LEU:HD23	1:B:85:LEU:C	2.20	0.62
1:B:125:LYS:C	1:B:165:LEU:HD21	2.18	0.62
1:B:267:LYS:HD2	1:B:267:LYS:C	2.19	0.62
1:B:362:GLU:HA	1:B:440:GLY:O	2.00	0.62
1:B:498:ASN:HB3	1:B:520:TRP:CE3	2.35	0.62
1:B:651:ARG:HE	1:B:660:LYS:HG3	1.63	0.62
1:A:439:LEU:HA	1:A:441:PHE:CZ	2.35	0.62
1:A:530:VAL:HG11	1:A:551:TYR:OH	1.99	0.62
1:A:685:GLY:CA	1:A:687:GLY:N	2.63	0.62
1:B:24:GLU:CA	1:B:25:LEU:HD13	2.30	0.62
1:B:79:ALA:C	1:B:80:LEU:HD23	2.19	0.62
1:B:316:THR:CG2	1:B:320:TRP:HE1	2.08	0.62
1:B:654:SER:HB2	1:B:659:GLU:CD	2.20	0.62
1:B:705:ARG:HB3	1:B:707:LEU:HD12	1.82	0.62
1:B:707:LEU:CD1	1:B:708:ILE:H	2.00	0.62
1:A:119:LYS:HB2	1:A:119:LYS:HZ2	1.64	0.61
1:A:305:GLU:O	1:A:307:ILE:CG1	2.48	0.61
1:A:584:SER:HB2	1:A:625:LYS:CE	2.30	0.61
1:A:636:TRP:CE3	1:A:640:PHE:CZ	2.87	0.61
1:A:758:MET:HE1	1:A:760:VAL:O	2.00	0.61
1:B:21:ALA:O	1:B:299:LYS:HB2	2.00	0.61
1:B:68:ARG:HH11	1:B:68:ARG:CG	2.13	0.61
1:B:90:THR:O	1:B:237:PHE:HE1	1.81	0.61
1:B:176:ARG:HH22	1:B:447:ARG:HA	1.63	0.61
1:B:272:SER:O	1:B:276:ARG:HD3	2.00	0.61
1:B:339:THR:CG2	1:B:496:ALA:HB2	2.30	0.61
1:B:666:ARG:HA	1:B:669:GLN:CG	2.29	0.61
1:B:729:LEU:O	1:B:732:LEU:HD22	1.99	0.61
1:B:737:LEU:O	1:B:738:LEU:HD22	2.00	0.61
1:A:8:ASP:OD1	1:A:12:SER:HB2	1.99	0.61
1:A:347:SER:CB	1:A:348:ALA:CB	2.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:352:MET:SD	1:A:429:THR:HA	2.40	0.61
1:A:388:ASP:C	1:A:569:ALA:HB1	2.20	0.61
1:A:505:GLU:OE1	1:A:507:GLN:HA	2.00	0.61
1:A:630:HIS:CD2	1:A:737:LEU:HD11	2.35	0.61
1:B:54:TRP:CD1	1:B:69:LEU:CD1	2.79	0.61
1:B:368:LYS:CD	1:B:369:GLU:CD	2.69	0.61
1:B:607:LYS:CB	1:B:608:GLU:O	2.48	0.61
1:B:676:ARG:HH11	1:B:676:ARG:CG	2.13	0.61
1:A:44:PHE:HB3	1:A:333:LEU:HD22	1.81	0.61
1:A:52:LEU:HD13	1:A:53:LEU:N	2.11	0.61
1:A:90:THR:O	1:A:94:GLN:HG2	1.98	0.61
1:A:268:GLU:CG	1:A:269:LEU:H	2.12	0.61
1:A:500:GLU:HG2	1:A:522:VAL:N	2.15	0.61
1:A:660:LYS:O	1:A:663:ILE:HG13	2.00	0.61
1:A:681:ILE:O	1:A:684:THR:HG22	2.00	0.61
1:B:38:LEU:HD11	1:B:501:VAL:O	2.01	0.61
1:B:408:PHE:CE2	1:B:633:ILE:HG12	2.35	0.61
1:B:593:TYR:CE2	1:B:726:TRP:HB2	2.35	0.61
1:B:607:LYS:N	1:B:609:PHE:HB2	2.15	0.61
1:B:748:LYS:HG2	1:B:749:VAL:N	2.15	0.61
1:A:86:VAL:CG2	1:A:191:ARG:CG	2.76	0.61
1:A:184:TYR:O	1:A:187:VAL:HG23	2.00	0.61
1:A:218:GLY:HA2	1:A:219:ALA:CB	2.31	0.61
1:A:257:LEU:CD2	1:A:288:LEU:CD1	2.76	0.61
1:A:435:ALA:HB3	1:A:437:MET:CE	2.28	0.61
1:A:733:GLN:NE2	1:A:738:LEU:HD11	2.15	0.61
1:B:96:THR:HG23	1:B:237:PHE:CD2	2.34	0.61
1:B:239:ARG:CG	1:B:239:ARG:HH11	2.11	0.61
1:B:246:ALA:O	1:B:249:VAL:HG12	2.01	0.61
1:B:282:ASP:HA	1:B:285:ARG:HG2	1.82	0.61
1:B:302:GLY:CA	1:B:303:ARG:HH11	2.10	0.61
1:B:377:LYS:CB	1:B:385:ARG:CD	2.79	0.61
1:B:401:LEU:C	1:B:404:ILE:H	2.04	0.61
1:B:411:SER:HA	1:B:414:VAL:CG1	2.31	0.61
1:B:521:ASN:HA	1:B:541:ARG:HD2	1.81	0.61
1:B:596:THR:HG23	1:B:601:ARG:CZ	2.31	0.61
1:B:623:ILE:CD1	1:B:625:LYS:CB	2.44	0.61
1:A:45:SER:HA	1:A:334:ARG:HB3	1.81	0.61
1:A:68:ARG:NH2	1:A:330:PRO:HD3	2.15	0.61
1:A:86:VAL:CG1	1:A:191:ARG:CG	2.65	0.61
1:A:205:VAL:HG21	1:A:239:ARG:CZ	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:298:VAL:HG21	1:A:515:SER:HA	1.81	0.61
1:A:377:LYS:CA	1:A:385:ARG:HA	2.30	0.61
1:A:408:PHE:CD2	1:A:636:TRP:CE2	2.59	0.61
1:A:707:LEU:HD12	1:A:707:LEU:O	2.00	0.61
1:B:178:ALA:HB2	1:B:447:ARG:HH21	1.66	0.61
1:B:376:VAL:CA	1:B:386:PHE:O	2.47	0.61
1:B:377:LYS:HA	1:B:385:ARG:CD	2.26	0.61
1:B:595:VAL:HG22	1:B:714:LEU:CD2	2.29	0.61
1:A:170:TYR:CE1	1:A:576:HIS:CE1	2.89	0.61
1:A:212:ALA:HB1	1:A:221:ALA:CA	2.31	0.61
1:A:213:THR:HG1	1:A:215:LYS:CB	2.11	0.61
1:A:308:PHE:O	1:A:309:SER:C	2.36	0.61
1:A:425:SER:CB	1:A:426:GLN:HB3	2.30	0.61
1:A:544:GLU:CG	1:A:547:GLU:HB2	2.30	0.61
1:A:617:ARG:HD3	1:A:618:ARG:H	1.64	0.61
1:B:124:GLY:CA	1:B:165:LEU:HD11	2.29	0.61
1:A:35:GLN:C	1:A:263:PRO:HB3	2.21	0.61
1:A:493:TYR:CE1	1:A:549:ILE:CD1	2.83	0.61
1:A:598:ARG:O	1:A:599:ASN:CG	2.36	0.61
1:A:750:LEU:HD12	1:A:751:GLY:CA	2.31	0.61
1:B:2:PHE:CZ	1:B:4:LEU:HD21	2.34	0.61
1:B:102:ILE:CG1	1:B:103:TRP:CE3	2.84	0.61
1:B:262:SER:HB2	1:B:269:LEU:HD21	1.83	0.61
1:B:363:ASP:OD1	1:B:561:LEU:HB3	2.01	0.61
1:A:53:LEU:HD13	1:A:171:VAL:CG1	2.31	0.61
1:A:169:ALA:O	1:A:575:ILE:HG21	2.00	0.61
1:A:227:GLN:O	1:A:231:ASN:HB3	2.01	0.61
1:A:568:LEU:H	1:A:568:LEU:HD12	1.66	0.61
1:A:636:TRP:CE3	1:A:640:PHE:CE1	2.89	0.61
1:B:86:VAL:CB	1:B:191:ARG:HG3	2.31	0.61
1:B:160:PRO:CG	1:B:161:LEU:HD22	2.22	0.61
1:B:734:MET:HE1	1:B:739:SER:O	2.01	0.61
1:A:37:PRO:CA	1:A:501:VAL:HG23	2.31	0.61
1:A:62:ASP:OD2	1:A:65:MET:HB2	2.01	0.61
1:A:200:THR:O	1:A:203:SER:CB	2.48	0.61
1:A:234:THR:C	1:A:237:PHE:H	2.02	0.61
1:A:517:TYR:OH	1:A:543:PRO:HA	2.01	0.61
1:A:671:ALA:HB1	1:A:753:SER:O	2.01	0.61
1:B:14:ARG:CD	1:B:465:GLY:HA3	2.30	0.61
1:B:126:VAL:N	1:B:127:PRO:CD	2.38	0.61
1:B:128:PRO:CA	1:B:131:ILE:H	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:159:SER:HG	1:B:163:PHE:H	1.47	0.61
1:B:623:ILE:HG23	1:B:623:ILE:O	2.00	0.61
1:B:654:SER:OG	1:B:659:GLU:HG2	2.01	0.61
1:B:757:GLY:N	1:B:758:MET:HA	2.16	0.61
1:A:56:VAL:HG12	1:A:56:VAL:O	2.00	0.61
1:A:68:ARG:HG2	1:A:68:ARG:HH11	1.66	0.61
1:A:161:LEU:CD2	1:A:211:GLN:HB2	2.30	0.61
1:A:448:ASP:HB3	1:A:453:ARG:CG	2.31	0.61
1:A:520:TRP:CE2	1:A:545:PRO:CG	2.83	0.61
1:A:557:PRO:CB	1:A:558:SER:O	2.44	0.61
1:A:669:GLN:CB	1:B:123:VAL:CG1	2.77	0.61
1:B:57:GLY:N	1:B:58:LYS:HE2	2.15	0.61
1:B:61:ILE:HD11	1:B:156:HIS:HA	1.82	0.61
1:B:103:TRP:CE2	1:B:230:ALA:CB	2.83	0.61
1:B:132:LEU:C	1:B:132:LEU:HD23	2.22	0.61
1:B:182:ASN:O	1:B:185:ALA:CA	2.49	0.61
1:B:208:LYS:HA	1:B:208:LYS:HZ3	1.66	0.61
1:B:226:SER:HB3	1:B:229:LEU:HD12	1.82	0.61
1:B:259:ARG:HA	1:B:269:LEU:HD11	1.82	0.61
1:B:275:LEU:CD1	1:B:316:THR:HA	2.17	0.61
1:B:321:PHE:CE1	1:B:326:SER:OG	2.51	0.61
1:B:375:PRO:HG2	1:B:385:ARG:NH1	2.15	0.61
1:B:451:LEU:HG	1:B:453:ARG:NH2	2.14	0.61
1:B:724:ARG:HB2	1:B:724:ARG:HH11	1.65	0.61
1:A:100:PRO:CG	1:A:101:GLU:N	2.62	0.60
1:A:502:VAL:N	1:A:518:LEU:HD13	2.15	0.60
1:A:751:GLY:O	1:A:754:ASN:C	2.39	0.60
1:B:6:VAL:HG13	1:B:7:LYS:N	2.16	0.60
1:B:34:LEU:O	1:B:35:GLN:NE2	2.34	0.60
1:B:181:PRO:CA	1:B:331:PHE:CZ	2.84	0.60
1:B:181:PRO:HA	1:B:331:PHE:HZ	1.66	0.60
1:B:216:ALA:HB1	1:B:217:LYS:CA	2.31	0.60
1:A:51:GLU:HA	1:A:174:VAL:HB	1.83	0.60
1:A:87:ASN:CG	1:A:191:ARG:NH1	2.53	0.60
1:A:128:PRO:CB	1:A:168:ALA:HB2	2.31	0.60
1:A:244:PHE:CE2	1:A:317:ILE:HD11	2.36	0.60
1:A:497:HIS:CD2	1:A:549:ILE:CD1	2.83	0.60
1:B:2:PHE:HZ	1:B:4:LEU:HD21	1.66	0.60
1:B:5:LYS:HB2	1:B:8:ASP:O	2.01	0.60
1:B:29:LEU:HB3	1:B:532:TYR:OH	2.01	0.60
1:B:68:ARG:HH12	1:B:328:VAL:C	2.04	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:84:GLU:O	1:B:88:GLN:N	2.29	0.60
1:B:103:TRP:CG	1:B:230:ALA:HB3	2.35	0.60
1:B:105:LYS:HZ2	1:B:108:ALA:CB	2.14	0.60
1:B:117:ALA:CA	1:B:222:PRO:HG2	2.30	0.60
1:B:200:THR:HG23	1:B:201:ALA:N	2.12	0.60
1:B:288:LEU:HD23	1:B:492:HIS:HD2	1.64	0.60
1:B:352:MET:HB3	1:B:354:GLN:OE1	2.00	0.60
1:B:492:HIS:HB3	1:B:495:VAL:HB	1.83	0.60
1:B:530:VAL:O	1:B:530:VAL:HG23	1.99	0.60
1:B:590:GLU:HB2	1:B:607:LYS:HB3	1.83	0.60
1:B:757:GLY:N	1:B:758:MET:CA	2.63	0.60
1:A:81:SER:O	1:A:84:GLU:CB	2.48	0.60
1:A:524:THR:CG2	1:A:539:SER:C	2.70	0.60
1:A:544:GLU:OE2	1:A:547:GLU:HG3	1.99	0.60
1:A:617:ARG:HG2	1:A:617:ARG:NH1	2.06	0.60
1:A:638:SER:O	1:A:641:VAL:N	2.35	0.60
1:B:24:GLU:CA	1:B:506:HIS:CE1	2.84	0.60
1:B:171:VAL:HB	1:B:575:ILE:HG21	1.82	0.60
1:B:222:PRO:O	1:B:224:LEU:HD23	2.01	0.60
1:B:260:LEU:HD13	1:B:260:LEU:C	2.20	0.60
1:B:364:TRP:CE2	1:B:628:VAL:HG13	2.36	0.60
1:B:372:ALA:HB3	1:B:389:VAL:HG21	1.80	0.60
1:B:449:TYR:HE2	1:B:630:HIS:HB3	1.66	0.60
1:B:462:LEU:HD13	1:B:463:ARG:H	1.62	0.60
1:B:625:LYS:HD2	1:B:625:LYS:O	2.00	0.60
1:B:668:MET:HG2	1:B:753:SER:HB2	1.83	0.60
1:B:735:MET:HG3	1:B:737:LEU:HD13	1.80	0.60
1:A:106:LEU:CD1	1:A:135:LEU:CD2	2.75	0.60
1:A:351:HIS:C	1:A:353:GLY:CA	2.70	0.60
1:A:596:THR:O	1:A:597:ILE:HG22	2.02	0.60
1:A:676:ARG:CA	1:A:679:GLU:HG2	2.31	0.60
1:B:44:PHE:CZ	1:B:324:ALA:CB	2.84	0.60
1:B:72:GLN:O	1:B:75:GLN:N	2.35	0.60
1:B:73:TYR:CA	1:B:76:ALA:HB3	2.32	0.60
1:B:373:PHE:HE2	1:B:624:LEU:HB2	1.63	0.60
1:B:444:VAL:HB	1:B:486:TYR:CE2	2.36	0.60
1:B:462:LEU:HD13	1:B:463:ARG:CA	2.30	0.60
1:B:590:GLU:HB2	1:B:607:LYS:CB	2.30	0.60
1:B:729:LEU:CB	1:B:732:LEU:HD13	2.31	0.60
1:A:386:PHE:CE1	1:A:576:HIS:CB	2.83	0.60
1:A:417:ARG:HG3	1:A:643:ASP:CG	2.21	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:532:TYR:CE1	1:A:543:PRO:HD2	2.35	0.60
1:A:544:GLU:HG2	1:A:547:GLU:CB	2.31	0.60
1:A:547:GLU:O	1:A:550:ALA:HB3	2.01	0.60
1:B:40:PHE:HB3	1:B:42:ARG:CG	2.32	0.60
1:B:364:TRP:CZ2	1:B:628:VAL:CG2	2.85	0.60
1:B:414:VAL:C	1:B:418:THR:HG1	1.98	0.60
1:B:581:HIS:CD2	1:B:582:GLU:N	2.67	0.60
1:A:107:THR:HG23	1:A:226:SER:OG	2.01	0.60
1:A:222:PRO:C	1:A:224:LEU:H	1.98	0.60
1:A:305:GLU:OE1	1:A:305:GLU:HA	2.01	0.60
1:A:491:MET:O	1:A:494:ALA:HB3	2.01	0.60
1:A:530:VAL:HG21	1:A:551:TYR:OH	2.00	0.60
1:A:648:ALA:O	1:A:652:ARG:HG2	2.01	0.60
1:B:44:PHE:CE2	1:B:324:ALA:CB	2.84	0.60
1:B:44:PHE:CD2	1:B:333:LEU:HD22	2.36	0.60
1:B:165:LEU:HB2	1:B:166:PRO:HA	1.82	0.60
1:B:385:ARG:C	1:B:386:PHE:CD1	2.74	0.60
1:B:404:ILE:CG1	1:B:737:LEU:HD21	2.29	0.60
1:B:426:GLN:HG2	1:B:427:ARG:HA	1.83	0.60
1:B:491:MET:HE2	1:B:494:ALA:HB3	1.83	0.60
1:A:17:THR:O	1:A:18:GLN:HB3	2.00	0.60
1:A:37:PRO:HA	1:A:502:VAL:HB	1.83	0.60
1:A:278:THR:HG23	1:A:281:ILE:CG1	2.32	0.60
1:A:480:LYS:HD2	1:A:481:ARG:N	2.17	0.60
1:A:585:THR:HA	1:A:622:ARG:NH1	2.15	0.60
1:B:45:SER:HA	1:B:181:PRO:CG	2.30	0.60
1:B:52:LEU:CD1	1:B:53:LEU:H	2.14	0.60
1:B:92:TYR:CE2	1:B:146:PHE:HB2	2.37	0.60
1:B:178:ALA:HB2	1:B:447:ARG:CZ	2.31	0.60
1:B:216:ALA:CB	1:B:217:LYS:HB2	2.32	0.60
1:B:255:THR:C	1:B:259:ARG:HH11	2.04	0.60
1:B:257:LEU:HD21	1:B:291:PHE:HA	1.82	0.60
1:B:317:ILE:HG12	1:B:320:TRP:CZ2	2.36	0.60
1:B:317:ILE:C	1:B:319:PRO:HD2	2.22	0.60
1:B:317:ILE:CD1	1:B:320:TRP:CZ2	2.85	0.60
1:B:410:VAL:HG12	1:B:632:ILE:HG13	1.82	0.60
1:B:412:ALA:HA	1:B:415:LYS:HB3	1.83	0.60
1:B:487:TYR:CZ	1:B:491:MET:SD	2.94	0.60
1:B:522:VAL:O	1:B:539:SER:HA	2.00	0.60
1:B:560:VAL:O	1:B:561:LEU:HG	2.01	0.60
1:B:632:ILE:O	1:B:635:MET:HG2	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:33:ALA:O	1:A:34:LEU:HB2	2.01	0.60
1:A:128:PRO:HG2	1:A:129:THR:HB	1.84	0.60
1:A:221:ALA:HA	1:A:224:LEU:HB3	1.82	0.60
1:A:346:THR:N	1:A:360:VAL:HG12	2.17	0.60
1:A:491:MET:O	1:A:495:VAL:N	2.33	0.60
1:A:636:TRP:CZ3	1:A:640:PHE:CZ	2.88	0.60
1:A:657:ASP:O	1:A:661:LEU:CD2	2.50	0.60
1:A:695:GLN:NE2	1:A:695:GLN:HA	2.15	0.60
1:B:44:PHE:CE1	1:B:332:LYS:C	2.72	0.60
1:B:79:ALA:HB3	1:B:80:LEU:HD23	1.81	0.60
1:B:153:PHE:CE2	1:B:202:LEU:CB	2.85	0.60
1:B:281:ILE:O	1:B:285:ARG:N	2.34	0.60
1:B:282:ASP:O	1:B:285:ARG:HG3	2.02	0.60
1:B:539:SER:O	1:B:541:ARG:CB	2.50	0.60
1:B:578:TRP:HD1	1:B:579:PRO:CD	2.14	0.60
1:B:596:THR:CG2	1:B:601:ARG:NE	2.65	0.60
1:B:753:SER:O	1:B:755:ALA:CB	2.50	0.60
1:A:34:LEU:HD21	1:A:35:GLN:OE1	2.02	0.60
1:A:356:SER:O	1:A:437:MET:HE2	2.02	0.60
1:A:393:ILE:HG23	1:A:612:LEU:HD12	1.82	0.60
1:A:528:ILE:CG2	1:A:530:VAL:HG12	2.32	0.60
1:A:534:ALA:O	1:A:535:ILE:HG22	2.02	0.60
1:A:547:GLU:C	1:A:550:ALA:H	2.05	0.60
1:B:23:GLY:HA2	1:B:299:LYS:HZ2	1.66	0.60
1:B:44:PHE:CD1	1:B:333:LEU:CD1	2.85	0.60
1:B:181:PRO:HA	1:B:331:PHE:CZ	2.37	0.60
1:B:506:HIS:N	1:B:507:GLN:CB	2.64	0.60
1:B:540:ILE:HD11	1:B:551:TYR:HB2	1.79	0.60
1:B:584:SER:O	1:B:585:THR:HG22	2.02	0.60
1:B:602:TYR:CD2	1:B:701:GLN:HB3	2.36	0.60
1:A:34:LEU:CB	1:A:504:SER:HB3	2.28	0.60
1:A:56:VAL:HG13	1:A:66:TYR:CZ	2.36	0.60
1:A:234:THR:HG23	1:A:237:PHE:CB	2.32	0.60
1:A:359:VAL:CG2	1:A:639:TRP:CZ2	2.84	0.60
1:A:556:GLN:NE2	1:A:557:PRO:HD2	2.16	0.60
1:B:2:PHE:CE1	1:B:3:ASN:O	2.54	0.60
1:B:14:ARG:O	1:B:17:THR:N	2.35	0.60
1:B:34:LEU:O	1:B:34:LEU:HD12	2.02	0.60
1:B:71:PHE:CE2	1:B:329:SER:CA	2.83	0.60
1:B:71:PHE:CZ	1:B:330:PRO:CD	2.85	0.60
1:B:71:PHE:HD2	1:B:329:SER:HA	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:181:PRO:CB	1:B:331:PHE:CZ	2.85	0.60
1:B:363:ASP:N	1:B:441:PHE:HA	2.15	0.60
1:B:707:LEU:CD1	1:B:708:ILE:N	2.61	0.60
1:B:726:TRP:CZ3	1:B:729:LEU:HB2	2.37	0.60
1:B:729:LEU:O	1:B:732:LEU:HB3	2.01	0.60
1:A:51:GLU:HA	1:A:174:VAL:CG2	2.31	0.59
1:A:66:TYR:O	1:A:69:LEU:HB2	2.02	0.59
1:A:71:PHE:CE2	1:A:329:SER:HB2	2.37	0.59
1:A:187:VAL:HG13	1:A:247:ASN:HA	1.79	0.59
1:A:306:VAL:O	1:A:307:ILE:HG13	2.01	0.59
1:A:309:SER:O	1:A:318:ILE:CD1	2.50	0.59
1:A:505:GLU:CD	1:A:507:GLN:HA	2.23	0.59
1:A:540:ILE:HG22	1:A:541:ARG:NE	2.17	0.59
1:A:610:GLU:HA	1:A:613:GLY:CA	2.27	0.59
1:A:735:MET:HG3	1:A:737:LEU:O	2.00	0.59
1:A:758:MET:SD	1:A:759:VAL:HA	2.41	0.59
1:B:102:ILE:HG21	1:B:135:LEU:CD2	2.32	0.59
1:B:158:LEU:HB2	1:B:210:LEU:HD22	1.84	0.59
1:B:176:ARG:NH1	1:B:446:GLU:O	2.34	0.59
1:B:607:LYS:CB	1:B:609:PHE:CG	2.85	0.59
1:B:628:VAL:CA	1:B:631:ALA:HB3	2.31	0.59
1:B:647:LEU:CB	1:B:667:ARG:HG3	2.31	0.59
1:A:45:SER:CA	1:A:332:LYS:HB2	2.32	0.59
1:A:109:TYR:O	1:A:109:TYR:HD1	1.84	0.59
1:A:126:VAL:O	1:A:165:LEU:C	2.41	0.59
1:A:180:TYR:CE1	1:A:331:PHE:HB3	2.36	0.59
1:A:213:THR:OG1	1:A:219:ALA:HB1	2.02	0.59
1:A:294:TYR:CE1	1:A:515:SER:CA	2.85	0.59
1:A:344:GLY:HA3	1:A:361:TYR:O	2.02	0.59
1:A:374:THR:HG22	1:A:620:ARG:CZ	2.32	0.59
1:A:416:ASN:O	1:A:420:VAL:HG23	2.02	0.59
1:A:570:ASN:O	1:A:573:THR:HG22	2.03	0.59
1:A:723:ILE:HG23	1:A:724:ARG:N	2.16	0.59
1:B:22:ILE:CG1	1:B:517:TYR:CD1	2.85	0.59
1:B:109:TYR:CD2	1:B:134:GLN:NE2	2.70	0.59
1:B:236:ALA:HA	1:B:239:ARG:HB2	1.84	0.59
1:B:259:ARG:CG	1:B:269:LEU:HD13	2.32	0.59
1:B:317:ILE:CG2	1:B:320:TRP:CH2	2.85	0.59
1:B:362:GLU:CG	1:B:635:MET:HE2	2.31	0.59
1:B:364:TRP:CD2	1:B:442:PRO:HG2	2.37	0.59
1:B:491:MET:HE3	1:B:491:MET:CA	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:504:SER:HB3	1:B:517:TYR:CE2	2.37	0.59
1:B:618:ARG:H	1:B:619:GLU:HA	1.65	0.59
1:A:68:ARG:HH22	1:A:330:PRO:HD3	1.68	0.59
1:A:540:ILE:HG21	1:A:541:ARG:NH2	2.10	0.59
1:A:593:TYR:CB	1:A:726:TRP:CD1	2.86	0.59
1:A:732:LEU:HG	1:A:738:LEU:CD1	2.32	0.59
1:A:746:LEU:O	1:A:747:THR:C	2.41	0.59
1:B:42:ARG:HB2	1:B:42:ARG:NH1	2.17	0.59
1:B:43:THR:CG2	1:B:287:ASN:HB3	2.32	0.59
1:B:93:HIS:HB3	1:B:237:PHE:HE1	0.64	0.59
1:B:173:ARG:CD	1:B:174:VAL:H	2.01	0.59
1:B:317:ILE:CG1	1:B:320:TRP:CE2	2.85	0.59
1:B:350:ASP:O	1:B:351:HIS:CB	2.51	0.59
1:B:364:TRP:CD2	1:B:442:PRO:CG	2.86	0.59
1:A:86:VAL:CG2	1:A:191:ARG:HD2	2.33	0.59
1:A:105:LYS:HZ1	1:A:137:THR:HG1	1.49	0.59
1:A:182:ASN:O	1:A:186:LEU:HD12	2.02	0.59
1:A:319:PRO:CD	1:A:320:TRP:H	2.16	0.59
1:A:420:VAL:CG2	1:A:643:ASP:OD2	2.42	0.59
1:A:580:TRP:CZ3	1:A:581:HIS:CE1	2.90	0.59
1:A:643:ASP:HA	1:A:646:THR:OG1	2.02	0.59
1:B:343:ILE:CD1	1:B:493:TYR:CZ	2.85	0.59
1:B:578:TRP:CD1	1:B:579:PRO:CD	2.85	0.59
1:B:617:ARG:HH11	1:B:617:ARG:CG	2.14	0.59
1:B:670:ASN:CG	1:B:749:VAL:HG11	2.19	0.59
1:B:676:ARG:NH1	1:B:676:ARG:HG2	2.17	0.59
1:B:702:MET:CE	1:B:714:LEU:HD12	2.32	0.59
1:B:712:SER:CB	1:B:715:HIS:CE1	2.85	0.59
1:A:408:PHE:CB	1:A:636:TRP:CD1	2.85	0.59
1:A:544:GLU:HB3	1:A:545:PRO:C	2.22	0.59
1:A:600:LYS:CB	1:A:602:TYR:CE1	2.86	0.59
1:A:683:THR:CG2	1:A:684:THR:H	2.09	0.59
1:B:24:GLU:HA	1:B:506:HIS:NE2	2.16	0.59
1:B:42:ARG:HD3	1:B:336:ILE:HA	1.83	0.59
1:B:43:THR:N	1:B:334:ARG:CB	2.64	0.59
1:B:70:PHE:CD2	1:B:195:LEU:CD1	2.86	0.59
1:B:109:TYR:CE2	1:B:131:ILE:HG12	2.36	0.59
1:B:113:SER:OG	1:B:115:ASN:HB3	2.03	0.59
1:B:176:ARG:HD3	1:B:176:ARG:N	2.16	0.59
1:B:354:GLN:HG3	1:B:528:ILE:HG21	1.84	0.59
1:B:467:VAL:HG22	1:B:468:ASP:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:501:VAL:CG2	1:B:520:TRP:CD1	2.85	0.59
1:B:596:THR:CG2	1:B:601:ARG:HD2	2.32	0.59
1:B:651:ARG:CZ	1:B:660:LYS:HG3	2.25	0.59
1:B:672:VAL:HA	1:B:675:LEU:HD12	1.85	0.59
1:A:59:GLY:HA2	1:A:152:ASP:CA	2.32	0.59
1:A:143:HIS:O	1:A:145:LEU:CD1	2.45	0.59
1:A:293:ALA:O	1:A:297:MET:HB2	2.02	0.59
1:A:347:SER:HB3	1:A:348:ALA:HB2	0.76	0.59
1:A:448:ASP:OD1	1:A:448:ASP:N	2.34	0.59
1:A:472:GLU:CB	1:A:475:ALA:HB2	2.17	0.59
1:B:29:LEU:CD1	1:B:532:TYR:CE1	2.85	0.59
1:B:44:PHE:CD1	1:B:333:LEU:CD2	2.85	0.59
1:B:68:ARG:NH1	1:B:68:ARG:HA	2.18	0.59
1:B:128:PRO:CA	1:B:131:ILE:HB	2.27	0.59
1:B:408:PHE:CZ	1:B:633:ILE:CG1	2.86	0.59
1:B:521:ASN:CA	1:B:541:ARG:HD2	2.33	0.59
1:B:623:ILE:O	1:B:625:LYS:HE3	2.02	0.59
1:A:101:GLU:CD	1:A:101:GLU:H	2.06	0.59
1:A:128:PRO:N	1:A:166:PRO:CG	2.50	0.59
1:A:173:ARG:CG	1:A:579:PRO:HB3	2.33	0.59
1:A:191:ARG:O	1:A:194:ASP:HB3	2.01	0.59
1:A:234:THR:O	1:A:238:GLU:N	2.36	0.59
1:A:417:ARG:C	1:A:420:VAL:HB	2.22	0.59
1:A:500:GLU:CG	1:A:522:VAL:H	2.14	0.59
1:A:507:GLN:CG	1:A:508:GLY:H	2.15	0.59
1:A:508:GLY:HA3	1:A:510:ALA:O	2.03	0.59
1:A:653:THR:HG22	1:A:655:ARG:NE	2.17	0.59
1:B:24:GLU:CG	1:B:28:GLN:HG3	2.33	0.59
1:B:94:GLN:HA	1:B:96:THR:OG1	2.01	0.59
1:B:103:TRP:HD1	1:B:227:GLN:O	1.84	0.59
1:B:191:ARG:NE	1:B:194:ASP:OD2	2.35	0.59
1:B:226:SER:CB	1:B:229:LEU:HD12	2.32	0.59
1:B:294:TYR:CE1	1:B:298:VAL:CG2	2.84	0.59
1:B:294:TYR:OH	1:B:516:LEU:HD11	2.03	0.59
1:B:317:ILE:CG1	1:B:320:TRP:CZ2	2.85	0.59
1:B:358:VAL:HG21	1:B:438:THR:CG2	2.33	0.59
1:B:364:TRP:HZ2	1:B:628:VAL:CG2	2.15	0.59
1:B:408:PHE:HZ	1:B:633:ILE:HD11	1.64	0.59
1:B:505:GLU:HB2	1:B:506:HIS:C	2.22	0.59
1:B:593:TYR:CD2	1:B:726:TRP:CB	2.85	0.59
1:B:759:VAL:O	1:B:760:VAL:HG23	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4:LEU:HD22	1:A:17:THR:HG21	1.81	0.59
1:A:18:GLN:CB	1:A:21:ALA:HB2	2.33	0.59
1:A:158:LEU:HD12	1:A:158:LEU:N	2.18	0.59
1:A:170:TYR:HE2	1:A:578:TRP:CZ2	2.19	0.59
1:A:294:TYR:OH	1:A:516:LEU:HG	2.02	0.59
1:A:331:PHE:O	1:A:332:LYS:HG2	2.02	0.59
1:A:633:ILE:O	1:A:636:TRP:HB3	2.02	0.59
1:A:733:GLN:NE2	1:A:738:LEU:CD1	2.66	0.59
1:B:44:PHE:H	1:B:289:ALA:HB3	1.67	0.59
1:B:109:TYR:HD2	1:B:134:GLN:NE2	2.01	0.59
1:B:522:VAL:HG21	1:B:552:ASN:HD21	1.68	0.59
1:A:16:LEU:HG	1:A:462:LEU:O	2.01	0.59
1:A:51:GLU:O	1:A:52:LEU:HB2	2.03	0.59
1:A:176:ARG:CG	1:A:447:ARG:NH1	2.52	0.59
1:A:187:VAL:C	1:A:190:VAL:HG23	2.22	0.59
1:A:349:ILE:HG12	1:A:354:GLN:O	2.01	0.59
1:A:377:LYS:HB3	1:A:385:ARG:HH11	1.68	0.59
1:A:476:SER:HA	1:A:479:LEU:HD12	1.84	0.59
1:A:493:TYR:CZ	1:A:549:ILE:CG2	2.85	0.59
1:A:682:GLY:O	1:A:727:ALA:HB1	2.03	0.59
1:A:690:ALA:N	1:A:693:LEU:HD22	2.18	0.59
1:A:729:LEU:HD21	1:A:738:LEU:HD11	1.83	0.59
1:B:44:PHE:CE1	1:B:333:LEU:CA	2.85	0.59
1:B:71:PHE:HE2	1:B:329:SER:HB2	1.66	0.59
1:B:101:GLU:O	1:B:104:ARG:N	2.36	0.59
1:B:106:LEU:O	1:B:108:ALA:N	2.35	0.59
1:B:368:LYS:H	1:B:368:LYS:CD	2.06	0.59
1:B:368:LYS:HD3	1:B:369:GLU:CD	2.22	0.59
1:B:370:ILE:HD11	1:B:401:LEU:HD12	1.85	0.59
1:B:651:ARG:NE	1:B:660:LYS:HG3	2.16	0.59
1:A:25:LEU:HG	1:A:26:LYS:HZ3	1.68	0.59
1:A:159:SER:CA	1:A:164:ILE:CA	2.81	0.59
1:A:213:THR:CG2	1:A:220:LEU:HD23	2.33	0.59
1:A:272:SER:O	1:A:276:ARG:CD	2.49	0.59
1:A:444:VAL:HA	1:A:447:ARG:HB2	1.83	0.59
1:A:493:TYR:CE1	1:A:549:ILE:CG1	2.85	0.59
1:A:502:VAL:H	1:A:518:LEU:CD1	2.16	0.59
1:A:523:ARG:HD3	1:A:524:THR:O	1.96	0.59
1:A:544:GLU:HG3	1:A:545:PRO:O	2.03	0.59
1:A:602:TYR:CE2	1:A:702:MET:CE	2.86	0.59
1:B:109:TYR:CE2	1:B:131:ILE:CG1	2.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:127:PRO:CA	1:B:128:PRO:N	2.64	0.59
1:B:131:ILE:C	1:B:133:GLU:N	2.53	0.59
1:B:183:PHE:CE2	1:B:184:TYR:CD1	2.90	0.59
1:B:321:PHE:CZ	1:B:326:SER:CB	2.85	0.59
1:B:501:VAL:CA	1:B:520:TRP:CD1	2.85	0.59
1:B:623:ILE:HD13	1:B:625:LYS:CA	2.32	0.59
1:B:653:THR:HG1	1:B:654:SER:N	2.01	0.59
1:B:691:VAL:HG13	1:B:723:ILE:HG12	1.85	0.59
1:A:62:ASP:OD2	1:A:66:TYR:N	2.36	0.58
1:A:272:SER:O	1:A:276:ARG:N	2.36	0.58
1:A:286:SER:C	1:A:288:LEU:H	2.07	0.58
1:A:472:GLU:H	1:A:475:ALA:HB3	1.66	0.58
1:A:478:ASP:O	1:A:481:ARG:N	2.36	0.58
1:A:666:ARG:C	1:A:668:MET:N	2.53	0.58
1:B:14:ARG:HD2	1:B:26:LYS:CD	2.33	0.58
1:B:24:GLU:N	1:B:506:HIS:CE1	2.71	0.58
1:B:102:ILE:CD1	1:B:103:TRP:CE3	2.86	0.58
1:B:200:THR:O	1:B:203:SER:N	2.36	0.58
1:B:259:ARG:C	1:B:269:LEU:HD11	2.22	0.58
1:B:600:LYS:CB	1:B:602:TYR:CE1	2.85	0.58
1:B:703:ALA:CA	1:B:708:ILE:HD13	2.33	0.58
1:A:82:VAL:CG2	1:A:188:ASP:HB3	2.33	0.58
1:A:143:HIS:C	1:A:145:LEU:HD12	2.23	0.58
1:A:159:SER:OG	1:A:164:ILE:HB	2.01	0.58
1:A:181:PRO:HB2	1:A:484:PHE:CE2	2.38	0.58
1:A:197:ARG:HA	1:A:200:THR:HB	1.84	0.58
1:A:209:MET:CG	1:A:210:LEU:H	2.14	0.58
1:A:347:SER:HA	1:A:554:PRO:HB3	1.85	0.58
1:A:349:ILE:HD11	1:A:356:SER:CA	2.33	0.58
1:B:8:ASP:CG	1:B:9:LEU:C	2.62	0.58
1:B:24:GLU:CB	1:B:506:HIS:NE2	2.66	0.58
1:B:87:ASN:ND2	1:B:88:GLN:N	2.50	0.58
1:B:309:SER:OG	1:B:315:SER:OG	2.21	0.58
1:B:526:LEU:HD22	1:B:527:ARG:CA	2.32	0.58
1:B:620:ARG:C	1:B:621:VAL:HG22	2.23	0.58
1:B:629:ALA:O	1:B:632:ILE:HG22	2.02	0.58
1:A:86:VAL:CG2	1:A:191:ARG:CD	2.82	0.58
1:A:177:THR:CG2	1:A:178:ALA:H	2.15	0.58
1:A:222:PRO:HG2	1:A:223:ALA:H	1.67	0.58
1:A:294:TYR:CE1	1:A:515:SER:HA	2.29	0.58
1:A:541:ARG:NH2	1:A:542:THR:OG1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:42:ARG:N	1:B:43:THR:OG1	2.36	0.58
1:B:158:LEU:CD1	1:B:210:LEU:HB3	2.24	0.58
1:B:251:SER:HA	1:B:301:ARG:NH2	2.18	0.58
1:B:294:TYR:HE2	1:B:516:LEU:HD11	1.65	0.58
1:B:308:PHE:HZ	1:B:318:ILE:CD1	2.07	0.58
1:B:587:PHE:C	1:B:622:ARG:HE	2.06	0.58
1:B:695:GLN:HE22	1:B:715:HIS:HE1	1.51	0.58
1:A:173:ARG:NE	1:A:579:PRO:HB3	2.18	0.58
1:A:205:VAL:CG2	1:A:239:ARG:HH22	2.15	0.58
1:A:335:PRO:HB2	1:A:338:GLU:OE2	2.04	0.58
1:A:352:MET:CE	1:A:427:ARG:HA	2.32	0.58
1:A:442:PRO:O	1:A:446:GLU:HB2	2.02	0.58
1:A:448:ASP:CB	1:A:455:PRO:HG3	2.32	0.58
1:A:693:LEU:CB	1:A:726:TRP:HH2	2.16	0.58
1:B:38:LEU:O	1:B:39:GLN:CG	2.45	0.58
1:B:103:TRP:HE3	1:B:103:TRP:N	2.01	0.58
1:B:171:VAL:CG1	1:B:577:ILE:C	2.72	0.58
1:B:276:ARG:HH11	1:B:276:ARG:CG	2.15	0.58
1:B:400:THR:CG2	1:B:686:ILE:HG12	2.34	0.58
1:B:424:VAL:HB	1:B:430:VAL:HG13	1.84	0.58
1:B:617:ARG:HB3	1:B:619:GLU:HG3	1.83	0.58
1:A:114:SER:O	1:A:115:ASN:HB3	2.02	0.58
1:A:181:PRO:CB	1:A:484:PHE:CD1	2.86	0.58
1:A:189:CYS:HB3	1:A:323:GLU:OE1	2.02	0.58
1:A:284:LEU:HG	1:A:287:ASN:OD1	2.04	0.58
1:A:287:ASN:O	1:A:288:LEU:C	2.42	0.58
1:A:343:ILE:N	1:A:559:GLU:OE2	2.35	0.58
1:A:441:PHE:HB2	1:A:443:SER:OG	2.03	0.58
1:A:521:ASN:O	1:A:522:VAL:HG22	2.02	0.58
1:A:583:ALA:HA	1:A:625:LYS:NZ	2.17	0.58
1:B:44:PHE:CG	1:B:333:LEU:CD2	2.87	0.58
1:B:57:GLY:C	1:B:58:LYS:HE2	2.23	0.58
1:B:103:TRP:CD2	1:B:230:ALA:CB	2.85	0.58
1:B:183:PHE:CD2	1:B:184:TYR:CD1	2.92	0.58
1:B:535:ILE:HG21	1:B:538:GLY:C	2.22	0.58
1:B:640:PHE:CD1	1:B:670:ASN:OD1	2.56	0.58
1:A:4:LEU:CD2	1:A:17:THR:CG2	2.75	0.58
1:A:64:VAL:CG1	1:A:196:ARG:HA	2.33	0.58
1:A:299:LYS:HB3	1:A:300:GLN:NE2	2.18	0.58
1:A:345:GLN:HG2	1:A:554:PRO:O	2.02	0.58
1:A:434:GLY:C	1:A:437:MET:HE3	2.24	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:610:GLU:O	1:A:613:GLY:HA3	2.03	0.58
1:B:125:LYS:C	1:B:165:LEU:HD22	2.23	0.58
1:B:131:ILE:O	1:B:134:GLN:N	2.35	0.58
1:B:236:ALA:HB2	1:B:239:ARG:HE	1.69	0.58
1:B:326:SER:C	1:B:327:GLU:OE1	2.42	0.58
1:B:540:ILE:O	1:B:542:THR:N	2.37	0.58
1:B:552:ASN:C	1:B:553:LYS:HD3	2.24	0.58
1:B:598:ARG:NH1	1:B:710:ASP:O	2.34	0.58
1:B:705:ARG:N	1:B:708:ILE:HD11	2.19	0.58
1:A:210:LEU:HB3	1:A:212:ALA:O	2.04	0.58
1:A:293:ALA:HA	1:A:296:ASP:CG	2.22	0.58
1:A:297:MET:HE3	1:A:297:MET:O	2.04	0.58
1:A:306:VAL:CG1	1:A:309:SER:HB2	2.31	0.58
1:A:408:PHE:HB3	1:A:636:TRP:CD1	2.39	0.58
1:A:636:TRP:CE3	1:A:640:PHE:CE2	2.88	0.58
1:A:718:ILE:O	1:A:719:ASN:C	2.42	0.58
1:A:753:SER:N	1:A:754:ASN:O	2.37	0.58
1:B:275:LEU:HD23	1:B:278:THR:HB	1.84	0.58
1:B:695:GLN:C	1:B:698:ILE:HG13	2.24	0.58
1:B:737:LEU:N	1:B:737:LEU:HD12	2.18	0.58
1:A:220:LEU:HD23	1:A:220:LEU:O	2.03	0.58
1:A:234:THR:C	1:A:237:PHE:CB	2.52	0.58
1:A:292:ILE:CB	1:A:295:GLN:HB3	2.30	0.58
1:A:466:ILE:HD12	1:A:466:ILE:O	2.02	0.58
1:A:523:ARG:HG2	1:A:538:GLY:CA	2.34	0.58
1:A:530:VAL:HG21	1:A:551:TYR:CZ	2.39	0.58
1:A:535:ILE:HG12	1:A:540:ILE:CD1	2.34	0.58
1:A:535:ILE:HG12	1:A:540:ILE:HD12	1.86	0.58
1:A:640:PHE:N	1:A:640:PHE:HD1	2.02	0.58
1:B:214:PHE:C	1:B:220:LEU:HD13	2.23	0.58
1:B:314:SER:CB	1:B:317:ILE:HB	2.26	0.58
1:B:376:VAL:C	1:B:378:LEU:HG	2.20	0.58
1:B:501:VAL:HG13	1:B:520:TRP:HE1	1.66	0.58
1:B:637:TYR:CA	1:B:640:PHE:HD2	2.11	0.58
1:A:22:ILE:HD11	1:A:295:GLN:NE2	2.19	0.58
1:A:102:ILE:O	1:A:102:ILE:HG22	2.04	0.58
1:A:173:ARG:HD2	1:A:579:PRO:HB3	1.84	0.58
1:A:272:SER:O	1:A:275:LEU:N	2.36	0.58
1:A:284:LEU:HA	1:A:287:ASN:HB3	1.85	0.58
1:A:287:ASN:ND2	1:A:290:LEU:CG	2.67	0.58
1:A:359:VAL:HA	1:A:438:THR:C	2.24	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:9:LEU:HD12	1:B:9:LEU:N	2.04	0.58
1:B:14:ARG:CG	1:B:465:GLY:HA3	2.34	0.58
1:B:127:PRO:O	1:B:130:ALA:HB3	2.03	0.58
1:B:228:HIS:HA	1:B:231:ASN:CB	2.33	0.58
1:B:317:ILE:HG22	1:B:318:ILE:HD12	1.85	0.58
1:B:577:ILE:HD12	1:B:578:TRP:CA	2.27	0.58
1:B:740:ARG:HG2	1:B:741:SER:H	1.66	0.58
1:A:35:GLN:N	1:A:503:VAL:O	2.36	0.58
1:A:82:VAL:C	1:A:85:LEU:HD23	2.24	0.58
1:A:278:THR:CG2	1:A:281:ILE:HG12	2.32	0.58
1:A:636:TRP:CE3	1:A:640:PHE:CD1	2.92	0.58
1:B:8:ASP:OD2	1:B:10:ASN:N	2.37	0.58
1:B:9:LEU:HD23	1:B:16:LEU:CB	2.28	0.58
1:B:18:GLN:NE2	1:B:545:PRO:HD3	2.19	0.58
1:B:323:GLU:O	1:B:326:SER:OG	2.21	0.58
1:B:415:LYS:NZ	1:B:415:LYS:O	2.23	0.58
1:B:593:TYR:CZ	1:B:722:ARG:HG3	2.38	0.58
1:A:59:GLY:O	1:A:156:HIS:CB	2.52	0.57
1:A:298:VAL:HG13	1:A:299:LYS:N	2.18	0.57
1:A:338:GLU:C	1:A:340:THR:N	2.56	0.57
1:A:374:THR:O	1:A:387:LEU:HB3	2.04	0.57
1:A:396:ARG:NE	1:A:612:LEU:HD13	2.18	0.57
1:A:417:ARG:HH11	1:A:417:ARG:CG	2.14	0.57
1:A:524:THR:CG2	1:A:539:SER:CA	2.60	0.57
1:A:532:TYR:CG	1:A:533:ASN:N	2.72	0.57
1:B:18:GLN:HG3	1:B:487:TYR:HH	1.69	0.57
1:B:34:LEU:HD12	1:B:34:LEU:C	2.24	0.57
1:B:72:GLN:O	1:B:75:GLN:HB2	2.04	0.57
1:B:74:ALA:O	1:B:77:GLY:CA	2.51	0.57
1:B:221:ALA:HB1	1:B:222:PRO:HD3	1.85	0.57
1:B:234:THR:C	1:B:237:PHE:H	2.07	0.57
1:B:363:ASP:N	1:B:441:PHE:HB3	2.18	0.57
1:B:409:ALA:O	1:B:412:ALA:CB	2.50	0.57
1:A:12:SER:HB3	1:A:463:ARG:NH2	2.10	0.57
1:A:82:VAL:HG21	1:A:188:ASP:CB	2.33	0.57
1:A:252:SER:CB	1:A:308:PHE:HE1	2.17	0.57
1:A:258:GLY:CA	1:A:261:TRP:CE3	2.85	0.57
1:A:435:ALA:CB	1:A:437:MET:HE2	2.33	0.57
1:A:502:VAL:HG22	1:A:503:VAL:C	2.23	0.57
1:B:43:THR:N	1:B:334:ARG:HB3	2.15	0.57
1:B:103:TRP:C	1:B:107:THR:HG1	1.97	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:317:ILE:HA	1:B:320:TRP:NE1	2.18	0.57
1:B:386:PHE:HD1	1:B:386:PHE:N	2.02	0.57
1:B:625:LYS:H	1:B:625:LYS:HZ2	1.50	0.57
1:A:87:ASN:ND2	1:A:191:ARG:CZ	2.67	0.57
1:A:259:ARG:CG	1:A:266:PRO:HB3	2.33	0.57
1:A:442:PRO:HD2	1:A:443:SER:OG	2.04	0.57
1:A:523:ARG:CZ	1:A:525:GLU:CA	2.83	0.57
1:A:687:GLY:O	1:A:688:ALA:C	2.42	0.57
1:A:732:LEU:HG	1:A:738:LEU:HD21	1.82	0.57
1:B:56:VAL:HG23	1:B:170:TYR:CG	2.40	0.57
1:B:308:PHE:CD1	1:B:309:SER:N	2.73	0.57
1:B:317:ILE:CG2	1:B:320:TRP:CZ2	2.85	0.57
1:B:484:PHE:CG	1:B:485:ASN:N	2.72	0.57
1:B:587:PHE:C	1:B:622:ARG:NE	2.57	0.57
1:B:592:ALA:CA	1:B:726:TRP:CZ2	2.82	0.57
1:B:632:ILE:HG23	1:B:633:ILE:N	2.19	0.57
1:B:726:TRP:CE3	1:B:726:TRP:CA	2.86	0.57
1:A:87:ASN:OD1	1:A:191:ARG:HD3	2.02	0.57
1:A:93:HIS:CE1	1:A:237:PHE:HD2	2.22	0.57
1:A:349:ILE:HG21	1:A:354:GLN:CA	2.25	0.57
1:A:387:LEU:HD11	1:A:577:ILE:HG23	1.86	0.57
1:A:517:TYR:HH	1:A:543:PRO:HA	1.70	0.57
1:A:751:GLY:O	1:A:755:ALA:N	2.38	0.57
1:B:235:THR:C	1:B:239:ARG:HG3	2.24	0.57
1:B:321:PHE:CD1	1:B:325:MET:CE	2.87	0.57
1:B:359:VAL:O	1:B:359:VAL:HG12	2.04	0.57
1:B:362:GLU:O	1:B:410:VAL:HG23	2.03	0.57
1:B:453:ARG:NH2	1:B:478:ASP:HB2	2.18	0.57
1:B:585:THR:N	1:B:622:ARG:CG	2.66	0.57
1:B:654:SER:HB2	1:B:659:GLU:OE1	2.04	0.57
1:B:658:ALA:O	1:B:661:LEU:HB3	2.03	0.57
1:B:729:LEU:HD22	1:B:732:LEU:HD12	1.83	0.57
1:A:52:LEU:C	1:A:174:VAL:HG13	2.25	0.57
1:A:347:SER:CB	1:A:348:ALA:CA	2.83	0.57
1:A:377:LYS:HB3	1:A:385:ARG:NH1	2.19	0.57
1:A:438:THR:O	1:A:438:THR:HG23	2.04	0.57
1:A:555:ILE:CG1	1:A:556:GLN:H	2.09	0.57
1:A:589:TYR:CD2	1:A:590:GLU:N	2.72	0.57
1:A:593:TYR:O	1:A:604:ALA:HB3	2.05	0.57
1:A:676:ARG:HH11	1:A:676:ARG:CG	2.15	0.57
1:A:683:THR:O	1:A:684:THR:HG22	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:42:ARG:HH12	1:B:339:THR:N	2.01	0.57
1:B:58:LYS:CD	1:B:58:LYS:H	2.17	0.57
1:B:60:ASN:OD1	1:B:60:ASN:N	2.35	0.57
1:B:82:VAL:HG23	1:B:188:ASP:CB	2.33	0.57
1:B:393:ILE:O	1:B:397:MET:CG	2.52	0.57
1:B:401:LEU:C	1:B:404:ILE:HG13	2.24	0.57
1:B:686:ILE:C	1:B:688:ALA:N	2.55	0.57
1:A:143:HIS:C	1:A:145:LEU:CD1	2.72	0.57
1:A:425:SER:HB2	1:A:426:GLN:HB3	1.85	0.57
1:B:43:THR:CG2	1:B:44:PHE:H	2.17	0.57
1:B:48:MET:CA	1:B:179:THR:HG22	2.20	0.57
1:B:114:SER:HG	1:B:222:PRO:HB2	1.70	0.57
1:B:171:VAL:HG22	1:B:578:TRP:CE3	2.39	0.57
1:B:228:HIS:HA	1:B:231:ASN:CG	2.25	0.57
1:B:315:SER:O	1:B:319:PRO:HG3	2.03	0.57
1:B:370:ILE:HG22	1:B:623:ILE:CD1	2.34	0.57
1:B:376:VAL:N	1:B:386:PHE:H	2.02	0.57
1:B:462:LEU:CD1	1:B:463:ARG:N	2.64	0.57
1:B:532:TYR:N	1:B:532:TYR:CD1	2.72	0.57
1:B:609:PHE:CD1	1:B:609:PHE:N	2.73	0.57
1:A:85:LEU:HD23	1:A:85:LEU:N	2.19	0.57
1:A:291:PHE:C	1:A:292:ILE:HG13	2.25	0.57
1:A:361:TYR:O	1:A:362:GLU:CG	2.53	0.57
1:A:387:LEU:O	1:A:572:THR:HB	2.05	0.57
1:A:641:VAL:HA	1:A:644:ASP:OD2	2.05	0.57
1:A:648:ALA:HB1	1:A:652:ARG:CZ	2.32	0.57
1:B:2:PHE:CD1	1:B:3:ASN:N	2.73	0.57
1:B:72:GLN:HG2	1:B:174:VAL:CG1	2.27	0.57
1:B:231:ASN:ND2	1:B:232:ALA:N	2.53	0.57
1:B:323:GLU:CD	1:B:324:ALA:H	2.08	0.57
1:B:363:ASP:OD1	1:B:561:LEU:HD22	2.05	0.57
1:A:284:LEU:HA	1:A:287:ASN:OD1	2.05	0.57
1:A:350:ASP:O	1:A:351:HIS:CB	2.50	0.57
1:A:381:ASN:O	1:A:382:SER:OG	2.14	0.57
1:A:433:ASN:HB2	1:A:434:GLY:O	2.05	0.57
1:A:532:TYR:CZ	1:A:533:ASN:ND2	2.73	0.57
1:A:574:SER:O	1:A:575:ILE:HD12	2.05	0.57
1:A:588:ALA:HA	1:A:590:GLU:OE2	2.04	0.57
1:A:758:MET:SD	1:A:759:VAL:CA	2.93	0.57
1:B:23:GLY:C	1:B:506:HIS:CE1	2.75	0.57
1:B:173:ARG:HG3	1:B:173:ARG:NH1	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:243:ASN:ND2	1:B:244:PHE:CD2	2.73	0.57
1:B:350:ASP:CB	1:B:430:VAL:H	2.18	0.57
1:B:571:HIS:O	1:B:573:THR:N	2.37	0.57
1:B:681:ILE:O	1:B:684:THR:CG2	2.52	0.57
1:B:702:MET:CE	1:B:714:LEU:CD1	2.82	0.57
1:B:729:LEU:HA	1:B:732:LEU:CG	2.33	0.57
1:A:252:SER:OG	1:A:308:PHE:HE1	1.88	0.57
1:A:272:SER:CA	1:A:276:ARG:CD	2.83	0.57
1:A:607:LYS:O	1:A:610:GLU:HB3	2.03	0.57
1:A:653:THR:HG22	1:A:655:ARG:HE	1.70	0.57
1:B:92:TYR:CZ	1:B:139:ALA:CB	2.87	0.57
1:B:97:ALA:C	1:B:99:ASN:N	2.55	0.57
1:B:171:VAL:O	1:B:578:TRP:HB3	2.04	0.57
1:B:245:ASP:CG	1:B:248:ALA:CA	2.69	0.57
1:B:358:VAL:HG13	1:B:437:MET:SD	2.45	0.57
1:B:372:ALA:HB3	1:B:389:VAL:HB	1.87	0.57
1:B:415:LYS:HZ1	1:B:419:ALA:CB	2.09	0.57
1:B:509:VAL:HG23	1:B:511:ALA:CA	2.34	0.57
1:B:520:TRP:CD1	1:B:520:TRP:N	2.73	0.57
1:B:564:LYS:C	1:B:565:VAL:HG13	2.25	0.57
1:A:9:LEU:CD2	1:A:10:ASN:N	2.46	0.57
1:A:45:SER:CB	1:A:332:LYS:CA	2.82	0.57
1:A:82:VAL:CB	1:A:188:ASP:HB3	2.35	0.57
1:A:182:ASN:O	1:A:185:ALA:HB3	2.04	0.57
1:A:186:LEU:H	1:A:186:LEU:CD1	2.13	0.57
1:A:292:ILE:HG22	1:A:295:GLN:HG2	1.76	0.57
1:A:343:ILE:HA	1:A:362:GLU:OE1	2.05	0.57
1:A:352:MET:HG3	1:A:355:PRO:O	2.05	0.57
1:A:361:TYR:HD2	1:A:362:GLU:N	1.78	0.57
1:A:414:VAL:HA	1:A:639:TRP:CZ3	2.34	0.57
1:A:440:GLY:HA3	1:A:635:MET:CE	2.35	0.57
1:A:544:GLU:CG	1:A:547:GLU:CB	2.83	0.57
1:B:61:ILE:CD1	1:B:156:HIS:HA	2.35	0.57
1:B:110:ILE:HG22	1:B:110:ILE:O	2.05	0.57
1:B:173:ARG:NH1	1:B:578:TRP:CZ2	2.72	0.57
1:B:262:SER:CB	1:B:269:LEU:HG	2.35	0.57
1:B:322:ILE:CA	1:B:325:MET:SD	2.93	0.57
1:B:339:THR:OG1	1:B:496:ALA:HB2	2.04	0.57
1:B:351:HIS:HB3	1:B:428:GLY:CA	2.30	0.57
1:B:485:ASN:OD1	1:B:486:TYR:N	2.38	0.57
1:B:641:VAL:HG13	1:B:748:LYS:NZ	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:44:PHE:CD1	1:A:44:PHE:N	2.72	0.56
1:A:185:ALA:HA	1:A:188:ASP:CG	2.24	0.56
1:A:268:GLU:O	1:A:269:LEU:C	2.37	0.56
1:A:282:ASP:N	1:A:282:ASP:OD1	2.38	0.56
1:A:292:ILE:HA	1:A:295:GLN:CB	2.34	0.56
1:A:334:ARG:HG2	1:A:334:ARG:NH1	2.18	0.56
1:A:345:GLN:CG	1:A:556:GLN:HA	2.34	0.56
1:A:364:TRP:HE3	1:A:562:GLN:HA	1.70	0.56
1:A:510:ALA:HB1	1:A:511:ALA:CA	2.35	0.56
1:A:530:VAL:HG21	1:A:551:TYR:HE2	1.69	0.56
1:A:542:THR:CG2	1:A:544:GLU:CB	2.83	0.56
1:A:577:ILE:O	1:A:577:ILE:HG13	2.04	0.56
1:A:593:TYR:CG	1:A:726:TRP:CD1	2.93	0.56
1:B:47:SER:H	1:B:332:LYS:HZ1	1.52	0.56
1:B:173:ARG:HB3	1:B:173:ARG:CZ	2.34	0.56
1:B:288:LEU:CD1	1:B:495:VAL:CG2	2.83	0.56
1:B:291:PHE:CE2	1:B:503:VAL:CG2	2.88	0.56
1:B:425:SER:O	1:B:430:VAL:HG22	2.05	0.56
1:B:472:GLU:H	1:B:475:ALA:CB	2.05	0.56
1:A:260:LEU:HD13	1:A:271:PRO:HG3	1.86	0.56
1:A:643:ASP:C	1:A:646:THR:HG1	2.02	0.56
1:B:112:GLY:O	1:B:113:SER:HB3	2.02	0.56
1:B:324:ALA:HB3	1:B:333:LEU:HD23	1.86	0.56
1:B:623:ILE:HD13	1:B:625:LYS:HA	1.87	0.56
1:B:630:HIS:CG	1:B:634:GLN:NE2	2.72	0.56
1:B:693:LEU:C	1:B:697:ARG:HH12	2.08	0.56
1:B:695:GLN:NE2	1:B:715:HIS:CE1	2.73	0.56
1:A:58:LYS:HG2	1:A:59:GLY:N	2.19	0.56
1:A:257:LEU:CD1	1:A:261:TRP:CH2	2.86	0.56
1:A:602:TYR:CE2	1:A:702:MET:SD	2.94	0.56
1:A:729:LEU:CD2	1:A:738:LEU:HD13	2.35	0.56
1:B:4:LEU:HD23	1:B:8:ASP:OD1	2.06	0.56
1:B:42:ARG:NH2	1:B:339:THR:H	2.03	0.56
1:B:343:ILE:HG22	1:B:344:GLY:O	2.05	0.56
1:B:358:VAL:HG21	1:B:438:THR:HG22	1.87	0.56
1:B:376:VAL:CB	1:B:386:PHE:O	2.48	0.56
1:B:412:ALA:C	1:B:415:LYS:HB3	2.24	0.56
1:B:415:LYS:HZ2	1:B:415:LYS:C	2.07	0.56
1:B:471:LEU:HD13	1:B:479:LEU:HB3	1.87	0.56
1:B:533:ASN:CA	1:B:535:ILE:HD12	2.35	0.56
1:B:540:ILE:HG12	1:B:551:TYR:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:586:GLU:O	1:B:622:ARG:HG2	2.05	0.56
1:B:598:ARG:NH2	1:B:708:ILE:HA	2.19	0.56
1:B:630:HIS:CD2	1:B:634:GLN:NE2	2.73	0.56
1:B:661:LEU:HD23	1:B:662:ALA:CA	2.35	0.56
1:B:685:GLY:O	1:B:688:ALA:HB3	2.05	0.56
1:B:697:ARG:O	1:B:700:ASP:HB3	2.06	0.56
1:B:719:ASN:O	1:B:720:ARG:C	2.43	0.56
1:A:55:GLU:HA	1:A:170:TYR:O	2.05	0.56
1:A:61:ILE:HG12	1:A:62:ASP:N	2.19	0.56
1:A:133:GLU:O	1:A:134:GLN:C	2.40	0.56
1:A:180:TYR:CG	1:A:331:PHE:CB	2.84	0.56
1:A:187:VAL:CA	1:A:190:VAL:HG23	2.35	0.56
1:A:329:SER:C	1:A:331:PHE:N	2.57	0.56
1:A:334:ARG:CD	1:A:335:PRO:HD2	2.34	0.56
1:A:442:PRO:HD2	1:A:443:SER:N	2.19	0.56
1:A:540:ILE:HG22	1:A:542:THR:OG1	2.06	0.56
1:A:666:ARG:O	1:A:669:GLN:HG2	2.04	0.56
1:B:71:PHE:CE2	1:B:330:PRO:CD	2.88	0.56
1:B:102:ILE:CG2	1:B:135:LEU:HD21	2.34	0.56
1:B:216:ALA:CA	1:B:217:LYS:CB	2.84	0.56
1:B:288:LEU:HD22	1:B:495:VAL:HG21	1.86	0.56
1:B:450:ALA:HB2	1:B:627:THR:HG21	1.86	0.56
1:B:670:ASN:HD22	1:B:749:VAL:HG12	1.65	0.56
1:A:22:ILE:CG2	1:A:23:GLY:H	2.07	0.56
1:A:92:TYR:HE1	1:A:150:THR:HG21	1.69	0.56
1:A:159:SER:HA	1:A:164:ILE:CA	2.35	0.56
1:A:221:ALA:HB2	1:A:225:ILE:HG13	1.87	0.56
1:A:361:TYR:N	1:A:361:TYR:CD1	2.73	0.56
1:A:553:LYS:CE	1:A:554:PRO:HD2	2.35	0.56
1:A:675:LEU:O	1:A:678:ILE:HB	2.06	0.56
1:B:128:PRO:CA	1:B:131:ILE:CB	2.75	0.56
1:B:362:GLU:HB2	1:B:410:VAL:HB	1.87	0.56
1:B:415:LYS:HD3	1:B:416:ASN:N	2.20	0.56
1:B:437:MET:SD	1:B:550:ALA:CB	2.94	0.56
1:B:503:VAL:HA	1:B:517:TYR:O	2.05	0.56
1:B:580:TRP:CD2	1:B:581:HIS:CA	2.89	0.56
1:B:681:ILE:O	1:B:684:THR:CB	2.51	0.56
1:B:735:MET:CE	1:B:737:LEU:HD11	2.35	0.56
1:A:31:VAL:HG22	1:A:32:GLY:N	2.21	0.56
1:A:50:SER:HA	1:A:564:LYS:HZ3	1.70	0.56
1:A:59:GLY:HA2	1:A:152:ASP:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:61:ILE:CG1	1:A:66:TYR:CE2	2.85	0.56
1:A:360:VAL:H	1:A:438:THR:HG23	1.69	0.56
1:A:651:ARG:HG2	1:A:660:LYS:CB	2.36	0.56
1:A:694:ALA:H	1:A:726:TRP:HZ3	1.53	0.56
1:A:694:ALA:N	1:A:726:TRP:CZ3	2.73	0.56
1:B:12:SER:C	1:B:463:ARG:HA	2.26	0.56
1:B:119:LYS:HZ3	1:B:217:LYS:CB	2.17	0.56
1:B:176:ARG:NH2	1:B:446:GLU:O	2.38	0.56
1:B:192:ALA:C	1:B:328:VAL:HG21	2.26	0.56
1:B:288:LEU:CD2	1:B:495:VAL:HG11	2.35	0.56
1:B:313:LEU:CA	1:B:316:THR:HB	2.31	0.56
1:B:382:SER:OG	1:B:383:ASN:N	2.37	0.56
1:B:449:TYR:CE2	1:B:630:HIS:CB	2.63	0.56
1:B:506:HIS:O	1:B:515:SER:O	2.23	0.56
1:B:533:ASN:ND2	1:B:551:TYR:CE2	2.73	0.56
1:A:41:THR:O	1:A:336:ILE:HD11	2.06	0.56
1:A:51:GLU:O	1:A:174:VAL:HG11	2.05	0.56
1:A:540:ILE:HG22	1:A:541:ARG:CZ	2.35	0.56
1:A:581:HIS:CE1	1:A:584:SER:CA	2.89	0.56
1:A:674:LEU:C	1:A:677:LYS:HE2	2.26	0.56
1:A:716:VAL:HG21	1:B:378:LEU:CD1	2.35	0.56
1:B:75:GLN:CD	1:B:177:THR:HB	2.25	0.56
1:B:127:PRO:C	1:B:130:ALA:HB3	2.25	0.56
1:B:350:ASP:HB3	1:B:430:VAL:HG23	1.87	0.56
1:B:350:ASP:CG	1:B:430:VAL:H	2.08	0.56
1:B:386:PHE:N	1:B:386:PHE:CD1	2.72	0.56
1:B:520:TRP:O	1:B:541:ARG:N	2.39	0.56
1:B:633:ILE:HG21	1:B:738:LEU:HD21	0.59	0.56
1:A:332:LYS:CD	1:A:339:THR:HG21	2.36	0.56
1:A:520:TRP:O	1:A:542:THR:HB	2.06	0.56
1:A:649:ALA:O	1:A:652:ARG:HB2	2.06	0.56
1:A:676:ARG:O	1:A:679:GLU:N	2.38	0.56
1:A:688:ALA:O	1:A:691:VAL:N	2.39	0.56
1:B:24:GLU:HA	1:B:506:HIS:HE2	1.71	0.56
1:B:180:TYR:CZ	1:B:489:ALA:HA	2.40	0.56
1:B:196:ARG:HB2	1:B:328:VAL:CG1	2.35	0.56
1:B:284:LEU:CD1	1:B:290:LEU:HD22	2.35	0.56
1:B:323:GLU:HA	1:B:326:SER:OG	2.06	0.56
1:B:354:GLN:CG	1:B:528:ILE:CG2	2.69	0.56
1:B:358:VAL:CG1	1:B:437:MET:SD	2.93	0.56
1:B:530:VAL:HB	1:B:551:TYR:OH	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:49:THR:OG1	1:A:563:ALA:HA	2.06	0.56
1:A:82:VAL:O	1:A:83:ASP:C	2.44	0.56
1:A:218:GLY:CA	1:A:219:ALA:CB	2.84	0.56
1:A:244:PHE:HE2	1:A:317:ILE:CD1	2.18	0.56
1:A:361:TYR:O	1:A:362:GLU:HB2	2.06	0.56
1:A:449:TYR:N	1:A:455:PRO:HD3	2.20	0.56
1:A:640:PHE:N	1:A:640:PHE:CD1	2.71	0.56
1:A:715:HIS:CB	1:A:716:VAL:HG13	2.34	0.56
1:B:310:ASP:O	1:B:315:SER:HB2	2.05	0.56
1:B:343:ILE:CD1	1:B:493:TYR:CE1	2.85	0.56
1:B:370:ILE:CG2	1:B:625:LYS:HB2	2.35	0.56
1:B:493:TYR:CD1	1:B:497:HIS:NE2	2.74	0.56
1:B:597:ILE:HG21	1:B:714:LEU:H	1.69	0.56
1:B:614:LEU:CD1	1:B:615:GLY:CA	2.84	0.56
1:A:207:SER:CB	1:A:228:HIS:CE1	2.81	0.56
1:A:313:LEU:HB3	1:A:315:SER:C	2.10	0.56
1:A:342:TYR:HD1	1:A:362:GLU:CD	2.08	0.56
1:A:436:GLU:C	1:A:438:THR:N	2.56	0.56
1:A:541:ARG:HD3	1:A:543:PRO:CD	2.35	0.56
1:A:691:VAL:O	1:A:694:ALA:HB3	2.06	0.56
1:A:735:MET:SD	1:A:736:GLY:CA	2.94	0.56
1:B:288:LEU:HG	1:B:292:ILE:HD11	1.87	0.56
1:A:56:VAL:CG1	1:A:66:TYR:CE1	2.86	0.55
1:A:160:PRO:HB2	1:A:208:LYS:CD	2.36	0.55
1:A:259:ARG:HD2	1:A:266:PRO:CA	2.35	0.55
1:A:663:ILE:HD12	1:A:664:ASP:CA	2.36	0.55
1:B:3:ASN:O	1:B:4:LEU:HG	2.05	0.55
1:B:186:LEU:CD1	1:B:186:LEU:H	2.19	0.55
1:B:350:ASP:OD1	1:B:428:GLY:C	2.45	0.55
1:B:362:GLU:CD	1:B:635:MET:CE	2.72	0.55
1:B:400:THR:CG2	1:B:686:ILE:CG1	2.84	0.55
1:B:448:ASP:HB3	1:B:453:ARG:CG	2.36	0.55
1:B:479:LEU:CD1	1:B:483:MET:SD	2.94	0.55
1:B:696:SER:HA	1:B:699:VAL:CB	2.36	0.55
1:A:31:VAL:CG1	1:A:32:GLY:N	2.51	0.55
1:A:44:PHE:HB2	1:A:333:LEU:CD2	2.35	0.55
1:A:158:LEU:HD23	1:A:225:ILE:CG2	2.36	0.55
1:A:187:VAL:HG11	1:A:247:ASN:CB	2.35	0.55
1:A:333:LEU:HD22	1:A:334:ARG:H	1.72	0.55
1:A:337:ASN:CA	1:A:340:THR:HG23	2.21	0.55
1:A:352:MET:SD	1:A:429:THR:CA	2.94	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:441:PHE:N	1:A:441:PHE:CD1	2.73	0.55
1:A:462:LEU:HD21	1:A:483:MET:HE3	1.88	0.55
1:A:520:TRP:N	1:A:542:THR:H	2.01	0.55
1:A:527:ARG:CZ	1:A:528:ILE:N	2.67	0.55
1:A:620:ARG:HH12	1:A:621:VAL:HA	1.71	0.55
1:B:14:ARG:CG	1:B:465:GLY:CA	2.84	0.55
1:B:40:PHE:CZ	1:B:495:VAL:CG1	2.86	0.55
1:B:111:THR:N	1:B:113:SER:H	2.04	0.55
1:B:260:LEU:HD21	1:B:285:ARG:CB	2.36	0.55
1:B:294:TYR:HE2	1:B:516:LEU:CD2	2.15	0.55
1:B:334:ARG:HG2	1:B:334:ARG:NH1	2.20	0.55
1:B:539:SER:O	1:B:541:ARG:N	2.40	0.55
1:B:552:ASN:OD1	1:B:552:ASN:N	2.31	0.55
1:B:568:LEU:HD12	1:B:572:THR:CB	2.30	0.55
1:B:602:TYR:CE2	1:B:714:LEU:HD11	2.40	0.55
1:B:633:ILE:CB	1:B:738:LEU:HD21	2.30	0.55
1:A:20:PHE:CD1	1:A:299:LYS:NZ	2.71	0.55
1:A:43:THR:C	1:A:44:PHE:HD1	2.09	0.55
1:A:44:PHE:HB2	1:A:334:ARG:N	2.22	0.55
1:A:461:ALA:O	1:A:462:LEU:C	2.43	0.55
1:A:530:VAL:CG2	1:A:551:TYR:CE2	2.89	0.55
1:A:740:ARG:N	1:A:742:GLU:CD	2.51	0.55
1:B:30:SER:CB	1:B:543:PRO:HG3	2.37	0.55
1:B:32:GLY:O	1:B:33:ALA:HB3	2.06	0.55
1:B:102:ILE:CG2	1:B:138:LEU:CD1	2.84	0.55
1:B:119:LYS:NZ	1:B:217:LYS:CB	2.69	0.55
1:B:171:VAL:CG2	1:B:578:TRP:HE3	2.20	0.55
1:B:291:PHE:HE2	1:B:503:VAL:HG21	1.71	0.55
1:B:303:ARG:HD2	1:B:305:GLU:OE2	2.07	0.55
1:B:408:PHE:O	1:B:410:VAL:N	2.40	0.55
1:B:509:VAL:CG2	1:B:511:ALA:HB2	2.36	0.55
1:B:520:TRP:O	1:B:541:ARG:CA	2.55	0.55
1:B:587:PHE:HA	1:B:622:ARG:CD	2.19	0.55
1:A:142:GLU:OE2	1:A:143:HIS:NE2	2.39	0.55
1:A:350:ASP:O	1:A:351:HIS:HB2	2.06	0.55
1:A:448:ASP:HA	1:A:451:LEU:HB2	1.88	0.55
1:A:745:ALA:O	1:A:746:LEU:C	2.43	0.55
1:B:43:THR:CG2	1:B:287:ASN:CB	2.85	0.55
1:B:288:LEU:HG	1:B:292:ILE:CD1	2.36	0.55
1:B:575:ILE:HG22	1:B:576:HIS:CB	2.35	0.55
1:A:86:VAL:HG21	1:A:191:ARG:CB	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:92:TYR:O	1:A:95:SER:OG	2.17	0.55
1:A:345:GLN:C	1:A:360:VAL:HA	2.26	0.55
1:A:383:ASN:O	1:A:384:GLN:C	2.43	0.55
1:A:383:ASN:O	1:A:384:GLN:O	2.25	0.55
1:A:421:TYR:O	1:A:424:VAL:N	2.39	0.55
1:A:548:ALA:HA	1:A:551:TYR:CB	2.30	0.55
1:A:666:ARG:HA	1:A:669:GLN:CD	2.25	0.55
1:A:737:LEU:O	1:A:738:LEU:HG	2.06	0.55
1:B:37:PRO:CG	1:B:261:TRP:CH2	2.84	0.55
1:B:205:VAL:HG21	1:B:232:ALA:HB2	1.87	0.55
1:B:220:LEU:O	1:B:221:ALA:C	2.44	0.55
1:B:381:ASN:N	1:B:381:ASN:OD1	2.39	0.55
1:B:448:ASP:HB3	1:B:453:ARG:HG2	1.88	0.55
1:B:668:MET:CG	1:B:671:ALA:HB3	2.36	0.55
1:B:673:THR:CA	1:B:677:LYS:HZ1	2.20	0.55
1:B:724:ARG:CZ	1:B:724:ARG:CA	2.85	0.55
1:A:74:ALA:HB2	1:A:85:LEU:HD11	1.88	0.55
1:A:333:LEU:HD22	1:A:334:ARG:N	2.22	0.55
1:A:748:LYS:CE	1:A:748:LYS:CA	2.85	0.55
1:B:86:VAL:HB	1:B:191:ARG:HD3	1.88	0.55
1:B:86:VAL:CB	1:B:191:ARG:CG	2.85	0.55
1:B:343:ILE:CD1	1:B:497:HIS:CE1	2.89	0.55
1:B:349:ILE:HD11	1:B:351:HIS:CA	2.35	0.55
1:B:393:ILE:HA	1:B:612:LEU:HD11	1.87	0.55
1:B:705:ARG:CB	1:B:707:LEU:HD13	2.32	0.55
1:B:707:LEU:O	1:B:710:ASP:OD1	2.24	0.55
1:B:733:GLN:NE2	1:B:739:SER:O	2.40	0.55
1:A:176:ARG:HE	1:A:447:ARG:HD3	1.72	0.55
1:A:268:GLU:C	1:A:269:LEU:O	2.39	0.55
1:A:303:ARG:HE	1:A:304:ALA:H	1.54	0.55
1:A:349:ILE:HD11	1:A:356:SER:CB	2.37	0.55
1:A:459:ILE:CG1	1:A:486:TYR:HE2	2.16	0.55
1:A:498:ASN:HD21	1:A:522:VAL:HA	1.69	0.55
1:A:528:ILE:HG22	1:A:530:VAL:HG12	1.87	0.55
1:A:532:TYR:CE2	1:A:533:ASN:CB	2.86	0.55
1:A:595:VAL:HG21	1:A:698:ILE:HD12	1.87	0.55
1:B:92:TYR:CD2	1:B:146:PHE:CB	2.89	0.55
1:B:102:ILE:HA	1:B:105:LYS:HB2	1.88	0.55
1:B:144:GLU:O	1:B:147:HIS:CB	2.53	0.55
1:B:216:ALA:CA	1:B:217:LYS:CG	2.84	0.55
1:B:260:LEU:CD2	1:B:276:ARG:HH12	2.12	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:322:ILE:O	1:B:325:MET:HG2	2.06	0.55
1:B:359:VAL:HG13	1:B:418:THR:HG21	1.88	0.55
1:B:479:LEU:CG	1:B:483:MET:SD	2.94	0.55
1:B:593:TYR:CE2	1:B:726:TRP:CD1	2.92	0.55
1:B:607:LYS:N	1:B:609:PHE:CB	2.69	0.55
1:B:668:MET:HG2	1:B:671:ALA:CB	2.37	0.55
1:A:50:SER:HA	1:A:564:LYS:HZ1	1.70	0.55
1:A:104:ARG:CB	1:A:104:ARG:CZ	2.85	0.55
1:A:170:TYR:CZ	1:A:576:HIS:CE1	2.78	0.55
1:A:447:ARG:HB3	1:A:448:ASP:OD1	2.07	0.55
1:A:475:ALA:O	1:A:476:SER:C	2.44	0.55
1:A:623:ILE:HD12	1:A:624:LEU:N	2.19	0.55
1:A:729:LEU:O	1:A:732:LEU:C	2.44	0.55
1:B:9:LEU:HD22	1:B:16:LEU:HB3	1.86	0.55
1:B:117:ALA:HB1	1:B:222:PRO:CG	2.35	0.55
1:B:164:ILE:HG23	1:B:165:LEU:CD1	2.35	0.55
1:B:358:VAL:CG2	1:B:438:THR:CG2	2.85	0.55
1:B:491:MET:HE2	1:B:494:ALA:CB	2.37	0.55
1:B:533:ASN:CB	1:B:535:ILE:CD1	2.85	0.55
1:B:623:ILE:O	1:B:625:LYS:CG	2.55	0.55
1:B:719:ASN:CG	1:B:720:ARG:NE	2.60	0.55
1:A:38:LEU:CD2	1:A:39:GLN:N	2.66	0.55
1:A:283:GLN:O	1:A:283:GLN:HG3	2.07	0.55
1:A:359:VAL:CG2	1:A:639:TRP:CH2	2.90	0.55
1:A:480:LYS:HD2	1:A:480:LYS:C	2.27	0.55
1:A:523:ARG:HD3	1:A:538:GLY:O	1.88	0.55
1:A:571:HIS:O	1:A:572:THR:O	2.25	0.55
1:A:640:PHE:HD1	1:A:640:PHE:H	1.55	0.55
1:A:715:HIS:HD2	1:B:388:ASP:OD2	1.84	0.55
1:B:35:GLN:CB	1:B:502:VAL:CG2	2.85	0.55
1:B:73:TYR:HA	1:B:76:ALA:CB	2.35	0.55
1:B:89:PHE:CE1	1:B:146:PHE:CD2	2.94	0.55
1:B:103:TRP:CD1	1:B:227:GLN:O	2.59	0.55
1:B:127:PRO:HA	1:B:130:ALA:CB	2.31	0.55
1:B:259:ARG:CB	1:B:269:LEU:HD13	2.37	0.55
1:B:306:VAL:O	1:B:307:ILE:C	2.45	0.55
1:B:586:GLU:O	1:B:622:ARG:CG	2.54	0.55
1:B:590:GLU:HA	1:B:608:GLU:HB3	0.69	0.55
1:A:2:PHE:CZ	1:A:459:ILE:CG2	2.81	0.55
1:A:6:VAL:HG11	1:A:531:GLY:N	2.17	0.55
1:A:44:PHE:CE1	1:A:290:LEU:CD2	2.84	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:45:SER:OG	1:A:332:LYS:HA	2.05	0.55
1:A:276:ARG:HB3	1:A:281:ILE:CG1	2.32	0.55
1:A:505:GLU:HA	1:A:515:SER:O	2.07	0.55
1:A:541:ARG:HE	1:A:541:ARG:N	2.05	0.55
1:A:595:VAL:HG21	1:A:698:ILE:CG1	2.37	0.55
1:A:732:LEU:CB	1:A:738:LEU:HD21	2.36	0.55
1:A:748:LYS:HD3	1:A:748:LYS:C	2.26	0.55
1:B:47:SER:CB	1:B:332:LYS:CE	2.85	0.55
1:B:87:ASN:HA	1:B:90:THR:OG1	2.07	0.55
1:B:93:HIS:CA	1:B:237:PHE:CD1	2.87	0.55
1:B:97:ALA:CB	1:B:234:THR:CG2	2.85	0.55
1:B:125:LYS:NZ	1:B:163:PHE:HE1	2.03	0.55
1:B:216:ALA:HA	1:B:217:LYS:CB	2.37	0.55
1:B:259:ARG:CA	1:B:269:LEU:CD1	2.85	0.55
1:B:260:LEU:HD22	1:B:276:ARG:NH1	2.15	0.55
1:B:272:SER:HG	1:B:275:LEU:H	1.44	0.55
1:B:289:ALA:CB	1:B:492:HIS:NE2	2.69	0.55
1:B:373:PHE:N	1:B:622:ARG:O	2.40	0.55
1:B:451:LEU:HB3	1:B:453:ARG:NE	2.22	0.55
1:B:482:SER:HA	1:B:485:ASN:HD21	1.72	0.55
1:A:40:PHE:CB	1:A:288:LEU:HB3	2.34	0.54
1:A:104:ARG:HB3	1:A:104:ARG:CZ	2.38	0.54
1:A:164:ILE:C	1:A:165:LEU:HD22	2.27	0.54
1:A:278:THR:CG2	1:A:281:ILE:CG1	2.85	0.54
1:A:287:ASN:HD22	1:A:290:LEU:CG	2.20	0.54
1:A:363:ASP:O	1:A:364:TRP:CD1	2.59	0.54
1:A:521:ASN:CG	1:A:541:ARG:HA	2.26	0.54
1:A:654:SER:C	1:A:656:ASP:HB2	2.27	0.54
1:B:211:GLN:HE22	1:B:214:PHE:HZ	1.54	0.54
1:B:288:LEU:HD23	1:B:492:HIS:CD2	2.42	0.54
1:B:361:TYR:CD2	1:B:414:VAL:CG1	2.85	0.54
1:B:448:ASP:CB	1:B:453:ARG:HG3	2.38	0.54
1:B:520:TRP:CZ3	1:B:548:ALA:CB	2.90	0.54
1:A:20:PHE:O	1:A:20:PHE:HD1	1.91	0.54
1:A:56:VAL:CG2	1:A:66:TYR:CE1	2.88	0.54
1:A:127:PRO:CA	1:A:166:PRO:HB2	2.13	0.54
1:A:131:ILE:O	1:A:133:GLU:N	2.40	0.54
1:A:213:THR:HG22	1:A:220:LEU:HD23	1.88	0.54
1:A:288:LEU:O	1:A:291:PHE:CA	2.55	0.54
1:A:352:MET:HB3	1:A:429:THR:HG1	1.68	0.54
1:A:362:GLU:OE2	1:A:559:GLU:HB3	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:435:ALA:CB	1:A:437:MET:CE	2.86	0.54
1:A:498:ASN:CB	1:A:522:VAL:HG12	2.36	0.54
1:A:606:VAL:C	1:A:607:LYS:HZ3	2.11	0.54
1:A:669:GLN:HG2	1:A:670:ASN:H	1.72	0.54
1:A:671:ALA:O	1:A:674:LEU:HD12	2.07	0.54
1:B:216:ALA:N	1:B:220:LEU:HD12	2.22	0.54
1:B:244:PHE:CZ	1:B:318:ILE:CA	2.65	0.54
1:B:401:LEU:CB	1:B:404:ILE:HD12	2.37	0.54
1:B:522:VAL:O	1:B:540:ILE:HG13	2.08	0.54
1:B:522:VAL:CA	1:B:539:SER:HB3	2.37	0.54
1:B:543:PRO:HG2	1:B:544:GLU:H	1.72	0.54
1:B:694:ALA:CA	1:B:697:ARG:NH2	2.70	0.54
1:B:704:GLY:N	1:B:708:ILE:CD1	2.70	0.54
1:A:52:LEU:CB	1:A:174:VAL:CG1	2.85	0.54
1:A:213:THR:C	1:A:215:LYS:HB3	2.27	0.54
1:A:287:ASN:ND2	1:A:290:LEU:CD1	2.70	0.54
1:A:316:THR:O	1:A:320:TRP:HB3	2.08	0.54
1:A:361:TYR:CE2	1:A:410:VAL:HG11	2.41	0.54
1:A:505:GLU:HA	1:A:516:LEU:HA	1.90	0.54
1:A:589:TYR:HE2	1:A:591:ASP:CG	2.09	0.54
1:A:660:LYS:HG2	1:A:661:LEU:HD22	1.88	0.54
1:A:714:LEU:O	1:A:715:HIS:C	2.41	0.54
1:B:14:ARG:HG2	1:B:14:ARG:NH1	2.19	0.54
1:B:69:LEU:CD1	1:B:172:TYR:CD1	2.91	0.54
1:B:114:SER:OG	1:B:222:PRO:HB2	2.08	0.54
1:B:119:LYS:NZ	1:B:218:GLY:N	2.55	0.54
1:B:158:LEU:CA	1:B:159:SER:C	2.74	0.54
1:B:361:TYR:CB	1:B:414:VAL:CG1	2.86	0.54
1:B:505:GLU:HA	1:B:506:HIS:O	2.07	0.54
1:B:594:SER:HB3	1:B:603:THR:CA	2.37	0.54
1:B:666:ARG:CG	1:B:669:GLN:HE21	2.20	0.54
1:A:181:PRO:HB2	1:A:484:PHE:CD2	2.42	0.54
1:A:224:LEU:O	1:A:228:HIS:HB2	2.06	0.54
1:A:312:GLU:O	1:A:312:GLU:HG3	2.07	0.54
1:A:332:LYS:HE3	1:A:339:THR:CB	2.36	0.54
1:A:342:TYR:HD1	1:A:362:GLU:OE1	1.90	0.54
1:A:359:VAL:HG13	1:A:438:THR:O	2.06	0.54
1:A:365:GLN:HG2	1:A:367:ALA:CB	2.38	0.54
1:A:374:THR:CG2	1:A:620:ARG:CZ	2.86	0.54
1:A:387:LEU:CD1	1:A:577:ILE:CG2	2.84	0.54
1:A:593:TYR:HB3	1:A:726:TRP:CD1	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:735:MET:HE1	1:A:737:LEU:HB2	1.82	0.54
1:B:6:VAL:CG2	1:B:530:VAL:CA	2.85	0.54
1:B:444:VAL:CG1	1:B:486:TYR:CD1	2.86	0.54
1:B:535:ILE:CG1	1:B:540:ILE:CA	2.85	0.54
1:B:654:SER:CB	1:B:659:GLU:CG	2.59	0.54
1:B:670:ASN:ND2	1:B:749:VAL:CB	2.65	0.54
1:B:676:ARG:HH11	1:B:676:ARG:HG2	1.73	0.54
1:B:712:SER:OG	1:B:715:HIS:ND1	2.30	0.54
1:A:46:ALA:H	1:A:334:ARG:NH2	2.05	0.54
1:A:143:HIS:CB	1:A:145:LEU:HD11	2.24	0.54
1:A:275:LEU:O	1:A:278:THR:HG22	2.08	0.54
1:A:337:ASN:HA	1:A:340:THR:HG21	1.87	0.54
1:A:361:TYR:CE2	1:A:410:VAL:HG21	2.42	0.54
1:A:605:GLU:HG2	1:A:607:LYS:HZ1	1.72	0.54
1:A:643:ASP:O	1:A:646:THR:N	2.41	0.54
1:B:46:ALA:HB2	1:B:178:ALA:O	2.08	0.54
1:B:94:GLN:CB	1:B:237:PHE:CE2	2.85	0.54
1:B:144:GLU:O	1:B:147:HIS:CA	2.56	0.54
1:B:213:THR:O	1:B:220:LEU:CD2	2.55	0.54
1:B:216:ALA:HB1	1:B:217:LYS:CB	2.37	0.54
1:B:318:ILE:N	1:B:319:PRO:HD2	2.22	0.54
1:B:350:ASP:OD1	1:B:429:THR:N	2.40	0.54
1:B:377:LYS:HB3	1:B:385:ARG:NE	2.10	0.54
1:B:623:ILE:HG23	1:B:625:LYS:CB	2.37	0.54
1:B:712:SER:HG	1:B:715:HIS:N	2.06	0.54
1:B:753:SER:O	1:B:755:ALA:HB2	2.07	0.54
1:A:6:VAL:CG1	1:A:531:GLY:CA	2.85	0.54
1:A:101:GLU:HA	1:A:104:ARG:HD2	1.49	0.54
1:A:101:GLU:OE1	1:A:101:GLU:N	2.40	0.54
1:A:119:LYS:HA	1:A:219:ALA:CA	2.18	0.54
1:A:535:ILE:CG1	1:A:540:ILE:CD1	2.85	0.54
1:A:708:ILE:HB	1:A:711:SER:OG	2.07	0.54
1:B:22:ILE:CG2	1:B:517:TYR:CD1	2.90	0.54
1:B:43:THR:CG2	1:B:289:ALA:HB3	2.27	0.54
1:B:125:LYS:HB3	1:B:165:LEU:O	2.07	0.54
1:B:324:ALA:CB	1:B:333:LEU:CD2	2.85	0.54
1:B:354:GLN:HB3	1:B:528:ILE:CG2	2.24	0.54
1:B:385:ARG:O	1:B:386:PHE:CD1	2.61	0.54
1:B:568:LEU:CD1	1:B:572:THR:CB	2.81	0.54
1:A:152:ASP:O	1:A:156:HIS:N	2.39	0.54
1:A:212:ALA:CB	1:A:221:ALA:CA	2.86	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:234:THR:CG2	1:A:237:PHE:CB	2.86	0.54
1:A:294:TYR:HD1	1:A:294:TYR:C	2.11	0.54
1:A:349:ILE:HD11	1:A:356:SER:HB2	1.88	0.54
1:B:30:SER:HB2	1:B:517:TYR:CE2	2.42	0.54
1:B:31:VAL:HG13	1:B:32:GLY:N	2.21	0.54
1:B:43:THR:HG23	1:B:287:ASN:CG	2.27	0.54
1:B:79:ALA:HB3	1:B:84:GLU:OE1	2.08	0.54
1:B:243:ASN:HD22	1:B:244:PHE:CB	2.13	0.54
1:B:261:TRP:HB3	1:B:291:PHE:HE2	1.71	0.54
1:A:40:PHE:HB2	1:A:288:LEU:C	1.96	0.54
1:A:303:ARG:CD	1:A:304:ALA:H	2.20	0.54
1:A:408:PHE:CD2	1:A:636:TRP:HE1	1.51	0.54
1:A:542:THR:HG23	1:A:545:PRO:HA	1.90	0.54
1:A:553:LYS:HE3	1:A:554:PRO:HD2	1.90	0.54
1:A:568:LEU:CD1	1:A:569:ALA:H	2.21	0.54
1:A:718:ILE:O	1:A:721:HIS:C	2.44	0.54
1:A:729:LEU:O	1:A:732:LEU:N	2.41	0.54
1:B:58:LYS:H	1:B:58:LYS:HD3	1.73	0.54
1:B:101:GLU:HA	1:B:104:ARG:HB2	1.90	0.54
1:B:105:LYS:HZ2	1:B:108:ALA:HB2	1.71	0.54
1:B:105:LYS:NZ	1:B:108:ALA:HB2	2.23	0.54
1:B:291:PHE:HD1	1:B:291:PHE:O	1.90	0.54
1:B:575:ILE:CB	1:B:576:HIS:CB	2.85	0.54
1:B:754:ASN:O	1:B:755:ALA:HB3	2.08	0.54
1:A:37:PRO:HB2	1:A:501:VAL:CG2	2.36	0.54
1:A:82:VAL:N	1:A:85:LEU:HD23	2.18	0.54
1:A:89:PHE:HD2	1:A:146:PHE:CD2	2.24	0.54
1:A:173:ARG:HG2	1:A:579:PRO:HB3	1.88	0.54
1:A:221:ALA:C	1:A:224:LEU:H	2.11	0.54
1:A:244:PHE:HE2	1:A:317:ILE:HD13	1.73	0.54
1:A:278:THR:CG2	1:A:281:ILE:HG23	2.37	0.54
1:A:344:GLY:C	1:A:361:TYR:H	2.11	0.54
1:A:373:PHE:HE1	1:A:622:ARG:HB2	1.72	0.54
1:A:467:VAL:HG13	1:A:469:GLU:OE2	2.07	0.54
1:A:528:ILE:CG2	1:A:530:VAL:CG1	2.85	0.54
1:A:542:THR:O	1:A:544:GLU:N	2.41	0.54
1:A:566:LEU:HD12	1:A:567:ASP:CA	2.37	0.54
1:A:688:ALA:C	1:A:691:VAL:HG23	2.27	0.54
1:B:96:THR:CG2	1:B:234:THR:HG22	2.36	0.54
1:B:102:ILE:CB	1:B:135:LEU:HD21	2.36	0.54
1:B:119:LYS:NZ	1:B:218:GLY:H	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:165:LEU:CB	1:B:166:PRO:HA	2.38	0.54
1:B:183:PHE:CE2	1:B:301:ARG:NH1	2.75	0.54
1:B:356:SER:C	1:B:436:GLU:H	2.10	0.54
1:B:493:TYR:CE1	1:B:497:HIS:NE2	2.74	0.54
1:B:540:ILE:O	1:B:541:ARG:C	2.46	0.54
1:B:578:TRP:CD1	1:B:579:PRO:N	2.76	0.54
1:B:597:ILE:HD12	1:B:713:ASP:C	2.27	0.54
1:B:597:ILE:HG13	1:B:713:ASP:O	2.08	0.54
1:B:678:ILE:HD12	1:B:679:GLU:CA	2.37	0.54
1:B:695:GLN:HA	1:B:695:GLN:OE1	2.08	0.54
1:A:15:GLY:HA2	1:A:20:PHE:CD2	2.36	0.54
1:A:34:LEU:HD11	1:A:35:GLN:HG3	1.89	0.54
1:A:82:VAL:CA	1:A:85:LEU:CG	2.51	0.54
1:A:128:PRO:CG	1:A:129:THR:CB	2.85	0.54
1:A:133:GLU:OE1	1:A:133:GLU:HA	2.08	0.54
1:A:365:GLN:N	1:A:562:GLN:CB	2.71	0.54
1:A:396:ARG:HH11	1:A:396:ARG:HG3	1.73	0.54
1:A:532:TYR:CD2	1:A:533:ASN:N	2.76	0.54
1:A:673:THR:O	1:A:677:LYS:HG3	2.08	0.54
1:B:158:LEU:HB3	1:B:206:ASP:OD1	2.08	0.54
1:B:681:ILE:HG22	1:B:731:VAL:CG2	2.37	0.54
1:B:693:LEU:CG	1:B:697:ARG:HH22	2.20	0.54
1:B:707:LEU:HD21	1:B:708:ILE:HG23	1.90	0.54
1:B:708:ILE:HD12	1:B:709:ASP:CA	2.38	0.54
1:A:193:SER:OG	1:A:323:GLU:HG2	2.08	0.53
1:A:248:ALA:O	1:A:251:SER:N	2.42	0.53
1:A:365:GLN:N	1:A:562:GLN:HB2	2.22	0.53
1:B:114:SER:OG	1:B:222:PRO:HG2	2.07	0.53
1:B:156:HIS:HE2	1:B:210:LEU:CD2	2.09	0.53
1:B:288:LEU:O	1:B:292:ILE:CD1	2.56	0.53
1:B:321:PHE:CD1	1:B:322:ILE:O	2.60	0.53
1:B:456:MET:CG	1:B:457:VAL:N	2.70	0.53
1:B:472:GLU:CD	1:B:473:ALA:H	2.08	0.53
1:B:504:SER:H	1:B:517:TYR:H	1.54	0.53
1:B:568:LEU:HD13	1:B:572:THR:CA	2.38	0.53
1:A:40:PHE:CB	1:A:288:LEU:CB	2.85	0.53
1:A:69:LEU:O	1:A:72:GLN:HB2	2.09	0.53
1:A:272:SER:O	1:A:275:LEU:HB2	2.09	0.53
1:A:337:ASN:O	1:A:340:THR:OG1	2.23	0.53
1:A:435:ALA:HB3	1:A:437:MET:HE2	1.90	0.53
1:A:439:LEU:N	1:A:439:LEU:CD2	2.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:455:PRO:CA	1:A:458:ALA:CB	2.86	0.53
1:A:491:MET:O	1:A:494:ALA:N	2.42	0.53
1:A:491:MET:C	1:A:495:VAL:HG23	2.29	0.53
1:A:498:ASN:CG	1:A:522:VAL:HB	2.29	0.53
1:A:614:LEU:HD23	1:A:615:GLY:N	2.22	0.53
1:A:663:ILE:HD12	1:A:664:ASP:HA	1.89	0.53
1:A:729:LEU:HD13	1:A:733:GLN:CB	2.37	0.53
1:B:228:HIS:O	1:B:231:ASN:ND2	2.36	0.53
1:B:249:VAL:HG13	1:B:250:VAL:N	2.23	0.53
1:B:324:ALA:HB1	1:B:333:LEU:HD23	1.90	0.53
1:B:366:PHE:HZ	1:B:408:PHE:HB2	1.73	0.53
1:B:368:LYS:CD	1:B:369:GLU:OE2	2.54	0.53
1:B:445:VAL:CG1	1:B:635:MET:SD	2.89	0.53
1:B:476:SER:O	1:B:479:LEU:HD23	2.08	0.53
1:B:587:PHE:CA	1:B:622:ARG:CD	2.84	0.53
1:B:707:LEU:HD22	1:B:707:LEU:C	2.29	0.53
1:A:518:LEU:N	1:A:518:LEU:CD2	2.71	0.53
1:A:568:LEU:HD13	1:A:569:ALA:N	2.24	0.53
1:A:600:LYS:CB	1:A:602:TYR:HE1	2.19	0.53
1:A:643:ASP:O	1:A:644:ASP:C	2.41	0.53
1:A:671:ALA:HA	1:A:674:LEU:CG	2.38	0.53
1:B:22:ILE:HG12	1:B:517:TYR:HB3	1.90	0.53
1:B:44:PHE:CE1	1:B:332:LYS:O	2.62	0.53
1:B:70:PHE:O	1:B:82:VAL:HG13	2.09	0.53
1:B:118:ILE:CG1	1:B:119:LYS:N	2.67	0.53
1:B:126:VAL:H	1:B:128:PRO:HD3	1.70	0.53
1:B:358:VAL:C	1:B:359:VAL:HG23	2.28	0.53
1:B:453:ARG:HH11	1:B:453:ARG:CA	2.22	0.53
1:A:44:PHE:CB	1:A:333:LEU:CD2	2.85	0.53
1:A:56:VAL:HG22	1:A:66:TYR:CD1	2.43	0.53
1:A:265:THR:HG23	1:A:267:LYS:CB	2.38	0.53
1:A:343:ILE:HG13	1:A:344:GLY:N	2.19	0.53
1:A:441:PHE:O	1:A:445:VAL:HG23	2.09	0.53
1:A:544:GLU:HB3	1:A:545:PRO:O	2.09	0.53
1:A:589:TYR:CG	1:A:590:GLU:N	2.75	0.53
1:B:44:PHE:N	1:B:289:ALA:HB3	2.24	0.53
1:B:61:ILE:CD1	1:B:156:HIS:CA	2.85	0.53
1:B:321:PHE:CE1	1:B:325:MET:SD	2.97	0.53
1:B:339:THR:HG21	1:B:496:ALA:CB	2.39	0.53
1:B:350:ASP:HB2	1:B:429:THR:H	1.73	0.53
1:B:368:LYS:HD2	1:B:369:GLU:CD	2.29	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:383:ASN:N	1:B:383:ASN:OD1	2.41	0.53
1:B:501:VAL:CG1	1:B:520:TRP:CD1	2.85	0.53
1:B:520:TRP:O	1:B:541:ARG:HD2	2.07	0.53
1:B:535:ILE:HG21	1:B:539:SER:CA	2.38	0.53
1:B:735:MET:CG	1:B:737:LEU:CD1	2.85	0.53
1:A:34:LEU:HG	1:A:35:GLN:CG	2.38	0.53
1:A:143:HIS:CD2	1:A:143:HIS:N	2.77	0.53
1:A:176:ARG:NH1	1:A:446:GLU:CA	2.68	0.53
1:A:213:THR:CG2	1:A:220:LEU:CD2	2.86	0.53
1:A:230:ALA:HA	1:A:233:ALA:CB	2.37	0.53
1:A:410:VAL:CG1	1:A:411:SER:H	2.19	0.53
1:A:457:VAL:O	1:A:460:ALA:HB2	2.08	0.53
1:A:462:LEU:HD21	1:A:483:MET:CE	2.39	0.53
1:A:547:GLU:O	1:A:550:ALA:N	2.41	0.53
1:A:577:ILE:HD12	1:A:579:PRO:HD2	1.91	0.53
1:A:695:GLN:O	1:A:696:SER:C	2.44	0.53
1:B:24:GLU:CA	1:B:506:HIS:NE2	2.70	0.53
1:B:42:ARG:CZ	1:B:337:ASN:N	2.72	0.53
1:B:42:ARG:CD	1:B:337:ASN:N	2.71	0.53
1:B:196:ARG:HH11	1:B:196:ARG:CG	2.18	0.53
1:B:259:ARG:CB	1:B:269:LEU:CD1	2.87	0.53
1:B:309:SER:HG	1:B:315:SER:HB2	1.70	0.53
1:B:321:PHE:CA	1:B:325:MET:CE	2.75	0.53
1:B:343:ILE:HD12	1:B:497:HIS:CE1	2.43	0.53
1:B:396:ARG:HD2	1:B:612:LEU:O	2.07	0.53
1:B:415:LYS:HZ2	1:B:419:ALA:HB2	1.70	0.53
1:B:498:ASN:HD22	1:B:499:PRO:N	2.07	0.53
1:B:516:LEU:HD22	1:B:516:LEU:N	2.23	0.53
1:A:49:THR:O	1:A:50:SER:CB	2.55	0.53
1:A:52:LEU:N	1:A:174:VAL:CG1	2.72	0.53
1:A:63:PRO:HB2	1:A:64:VAL:HG23	1.91	0.53
1:A:85:LEU:CD2	1:A:85:LEU:N	2.71	0.53
1:A:355:PRO:CG	1:A:529:PRO:HG3	2.35	0.53
1:A:498:ASN:O	1:A:499:PRO:C	2.46	0.53
1:A:744:GLU:HA	1:A:747:THR:HG21	1.84	0.53
1:B:14:ARG:CD	1:B:26:LYS:CD	2.86	0.53
1:B:84:GLU:O	1:B:87:ASN:N	2.42	0.53
1:B:176:ARG:HE	1:B:176:ARG:C	2.10	0.53
1:B:312:GLU:OE1	1:B:313:LEU:N	2.42	0.53
1:B:401:LEU:O	1:B:404:ILE:CG1	2.57	0.53
1:B:404:ILE:HD12	1:B:735:MET:HG3	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:472:GLU:HB3	1:B:475:ALA:H	1.73	0.53
1:B:593:TYR:CE1	1:B:722:ARG:NE	2.76	0.53
1:B:593:TYR:HE2	1:B:723:ILE:HB	1.74	0.53
1:B:606:VAL:HG23	1:B:693:LEU:HD21	1.89	0.53
1:B:688:ALA:HA	1:B:691:VAL:HG23	1.91	0.53
1:A:4:LEU:CB	1:A:13:ALA:CB	2.70	0.53
1:A:157:VAL:HG11	1:A:228:HIS:CE1	2.44	0.53
1:A:346:THR:HB	1:A:359:VAL:N	2.23	0.53
1:A:517:TYR:CZ	1:A:520:TRP:CE3	2.94	0.53
1:A:554:PRO:O	1:A:555:ILE:HG12	2.09	0.53
1:A:677:LYS:HA	1:A:680:MET:HG2	1.91	0.53
1:B:125:LYS:CA	1:B:165:LEU:CD2	2.87	0.53
1:B:593:TYR:N	1:B:726:TRP:CZ2	2.77	0.53
1:A:110:ILE:N	1:A:110:ILE:CD1	2.72	0.53
1:A:129:THR:O	1:A:132:LEU:HB2	2.08	0.53
1:A:352:MET:SD	1:A:429:THR:CB	2.97	0.53
1:A:449:TYR:HA	1:A:454:ASP:H	1.73	0.53
1:A:502:VAL:HA	1:A:503:VAL:HB	1.90	0.53
1:B:5:LYS:HD3	1:B:435:ALA:C	2.29	0.53
1:B:132:LEU:HD21	1:B:150:THR:OG1	2.08	0.53
1:B:283:GLN:CD	1:B:284:LEU:H	2.11	0.53
1:B:396:ARG:HB3	1:B:612:LEU:CD2	2.39	0.53
1:B:753:SER:O	1:B:755:ALA:CA	2.56	0.53
1:A:56:VAL:CG2	1:A:66:TYR:CD1	2.92	0.53
1:A:179:THR:HG21	1:A:488:ALA:HB1	1.90	0.53
1:A:325:MET:O	1:A:327:GLU:HG3	2.09	0.53
1:A:432:SER:O	1:A:433:ASN:CB	2.57	0.53
1:A:585:THR:CB	1:A:586:GLU:HA	2.29	0.53
1:B:349:ILE:HG22	1:B:421:TYR:OH	2.09	0.53
1:B:400:THR:CG2	1:B:686:ILE:CD1	2.85	0.53
1:B:462:LEU:CD1	1:B:463:ARG:H	2.22	0.53
1:B:504:SER:O	1:B:517:TYR:N	2.42	0.53
1:B:643:ASP:OD2	1:B:666:ARG:CB	2.54	0.53
1:B:724:ARG:CB	1:B:724:ARG:CZ	2.86	0.53
1:A:4:LEU:CD2	1:A:13:ALA:HB3	2.39	0.53
1:A:44:PHE:HB2	1:A:334:ARG:H	1.72	0.53
1:A:44:PHE:HE1	1:A:290:LEU:HB3	1.75	0.53
1:A:108:ALA:CA	1:A:112:GLY:C	2.73	0.53
1:A:241:ARG:CG	1:A:242:GLY:N	2.72	0.53
1:A:498:ASN:ND2	1:A:522:VAL:CA	2.71	0.53
1:A:588:ALA:HB1	1:A:589:TYR:CA	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:655:ARG:H	1:A:656:ASP:C	2.11	0.53
1:A:754:ASN:HB3	1:A:755:ALA:CA	2.39	0.53
1:B:36:LEU:HB3	1:B:37:PRO:HD2	1.90	0.53
1:B:92:TYR:HD2	1:B:146:PHE:CG	2.18	0.53
1:B:308:PHE:HE1	1:B:319:PRO:HD3	1.74	0.53
1:B:312:GLU:CG	1:B:313:LEU:N	2.72	0.53
1:B:408:PHE:CE1	1:B:633:ILE:HD13	2.43	0.53
1:B:451:LEU:O	1:B:451:LEU:HD12	2.09	0.53
1:B:459:ILE:O	1:B:462:LEU:HB3	2.08	0.53
1:B:506:HIS:HA	1:B:507:GLN:C	2.28	0.53
1:B:552:ASN:HA	1:B:553:LYS:NZ	2.24	0.53
1:B:623:ILE:HG23	1:B:625:LYS:HB3	1.89	0.53
1:B:707:LEU:CD2	1:B:708:ILE:HG23	2.39	0.53
1:B:719:ASN:HD21	1:B:720:ARG:HG3	1.72	0.53
1:B:756:LEU:HB3	1:B:758:MET:HA	1.90	0.53
1:A:42:ARG:HD3	1:A:334:ARG:O	2.09	0.52
1:A:78:GLY:O	1:A:80:LEU:HD23	2.09	0.52
1:A:88:GLN:O	1:A:91:GLU:HB3	2.08	0.52
1:A:213:THR:HG21	1:A:220:LEU:CD2	2.38	0.52
1:A:294:TYR:CE1	1:A:516:LEU:N	2.75	0.52
1:A:363:ASP:O	1:A:561:LEU:O	2.27	0.52
1:A:523:ARG:CA	1:A:539:SER:CB	2.86	0.52
1:A:627:THR:OG1	1:A:628:VAL:CA	2.56	0.52
1:A:686:ILE:HG13	1:A:686:ILE:O	2.07	0.52
1:B:44:PHE:N	1:B:289:ALA:CB	2.72	0.52
1:B:344:GLY:HA2	1:B:555:ILE:C	2.29	0.52
1:B:358:VAL:CG2	1:B:438:THR:HB	2.38	0.52
1:B:358:VAL:CG2	1:B:438:THR:N	2.70	0.52
1:B:535:ILE:CD1	1:B:540:ILE:CA	2.87	0.52
1:B:604:ALA:HB1	1:B:697:ARG:HB3	1.91	0.52
1:B:630:HIS:CD2	1:B:634:GLN:HE22	2.28	0.52
1:B:703:ALA:HA	1:B:708:ILE:HD13	1.88	0.52
1:A:16:LEU:HD11	1:A:463:ARG:N	2.24	0.52
1:A:265:THR:CG2	1:A:267:LYS:N	2.73	0.52
1:A:349:ILE:CD1	1:A:357:HIS:N	2.72	0.52
1:A:404:ILE:HD12	1:A:681:ILE:HD12	1.88	0.52
1:A:433:ASN:CB	1:A:434:GLY:CA	2.85	0.52
1:A:448:ASP:HB2	1:A:453:ARG:HB2	1.88	0.52
1:B:10:ASN:O	1:B:26:LYS:NZ	2.41	0.52
1:B:68:ARG:NH1	1:B:68:ARG:CA	2.73	0.52
1:B:79:ALA:CB	1:B:80:LEU:CD2	2.85	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:96:THR:HG22	1:B:234:THR:CG2	2.36	0.52
1:B:97:ALA:CA	1:B:234:THR:CG2	2.84	0.52
1:B:136:ARG:NH1	1:B:147:HIS:CD2	2.78	0.52
1:B:156:HIS:CD2	1:B:158:LEU:CB	2.85	0.52
1:B:156:HIS:HB3	1:B:206:ASP:OD2	2.09	0.52
1:B:164:ILE:CG2	1:B:165:LEU:N	2.72	0.52
1:B:236:ALA:CA	1:B:239:ARG:NE	2.72	0.52
1:B:245:ASP:O	1:B:248:ALA:N	2.41	0.52
1:B:262:SER:HB2	1:B:269:LEU:CD2	2.39	0.52
1:B:552:ASN:CA	1:B:553:LYS:NZ	2.73	0.52
1:B:580:TRP:CE2	1:B:581:HIS:CB	2.92	0.52
1:B:597:ILE:HD12	1:B:713:ASP:O	2.09	0.52
1:B:693:LEU:CD2	1:B:697:ARG:NH2	2.72	0.52
1:A:52:LEU:HA	1:A:53:LEU:CD2	2.34	0.52
1:A:58:LYS:NZ	1:A:58:LYS:HB3	2.24	0.52
1:A:127:PRO:HG3	1:A:130:ALA:CB	2.35	0.52
1:A:176:ARG:NE	1:A:447:ARG:CD	2.70	0.52
1:A:179:THR:N	1:A:180:TYR:HA	2.25	0.52
1:A:287:ASN:ND2	1:A:290:LEU:CD2	2.72	0.52
1:A:313:LEU:CA	1:A:315:SER:HB3	2.30	0.52
1:A:377:LYS:HE2	1:A:377:LYS:O	2.08	0.52
1:A:377:LYS:CE	1:A:379:ALA:N	2.71	0.52
1:A:448:ASP:CB	1:A:455:PRO:CG	2.85	0.52
1:A:503:VAL:CB	1:A:519:VAL:N	2.72	0.52
1:B:38:LEU:CD2	1:B:501:VAL:CB	2.86	0.52
1:B:88:GLN:HE22	1:B:143:HIS:CG	2.25	0.52
1:B:125:LYS:CA	1:B:165:LEU:HD21	2.38	0.52
1:B:174:VAL:HG23	1:B:174:VAL:O	2.10	0.52
1:B:312:GLU:CG	1:B:313:LEU:H	2.20	0.52
1:B:343:ILE:CD1	1:B:497:HIS:NE2	2.72	0.52
1:B:364:TRP:CE3	1:B:442:PRO:HG2	2.43	0.52
1:B:456:MET:O	1:B:459:ILE:HB	2.09	0.52
1:B:643:ASP:OD1	1:B:666:ARG:HG2	2.08	0.52
1:B:673:THR:HG22	1:B:677:LYS:HZ3	1.74	0.52
1:B:702:MET:HE3	1:B:714:LEU:CD1	2.39	0.52
1:B:756:LEU:CG	1:B:757:GLY:N	2.71	0.52
1:A:45:SER:CA	1:A:332:LYS:CB	2.87	0.52
1:A:104:ARG:CD	1:A:104:ARG:N	2.73	0.52
1:A:493:TYR:CD1	1:A:549:ILE:CD1	2.91	0.52
1:A:566:LEU:CD1	1:A:567:ASP:N	2.68	0.52
1:A:597:ILE:CD1	1:A:598:ARG:H	2.01	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:30:SER:OG	1:B:543:PRO:CG	2.52	0.52
1:B:41:THR:CG2	1:B:287:ASN:ND2	2.72	0.52
1:B:70:PHE:CG	1:B:85:LEU:HD21	2.45	0.52
1:B:75:GLN:NE2	1:B:177:THR:CB	2.73	0.52
1:B:84:GLU:CA	1:B:87:ASN:ND2	2.72	0.52
1:B:125:LYS:CD	1:B:163:PHE:CE1	2.91	0.52
1:B:156:HIS:HE2	1:B:157:VAL:HG23	1.56	0.52
1:B:158:LEU:HD12	1:B:210:LEU:CB	2.26	0.52
1:B:259:ARG:HB3	1:B:271:PRO:CG	2.39	0.52
1:B:501:VAL:CB	1:B:520:TRP:CD1	2.92	0.52
1:B:530:VAL:CB	1:B:551:TYR:CZ	2.85	0.52
1:B:606:VAL:CG2	1:B:693:LEU:CD2	2.85	0.52
1:B:677:LYS:HE3	1:B:677:LYS:CA	2.39	0.52
1:A:128:PRO:CA	1:A:166:PRO:HG3	2.28	0.52
1:A:173:ARG:CG	1:A:579:PRO:CB	2.86	0.52
1:A:265:THR:HG23	1:A:267:LYS:N	2.24	0.52
1:A:307:ILE:CD1	1:A:308:PHE:CD1	2.86	0.52
1:A:319:PRO:CD	1:A:320:TRP:N	2.73	0.52
1:A:377:LYS:HE2	1:A:378:LEU:N	2.24	0.52
1:A:503:VAL:CG2	1:A:519:VAL:N	2.73	0.52
1:A:653:THR:HG22	1:A:655:ARG:HG3	1.91	0.52
1:B:228:HIS:CG	1:B:231:ASN:ND2	2.71	0.52
1:B:236:ALA:N	1:B:239:ARG:CZ	2.73	0.52
1:B:385:ARG:H	1:B:577:ILE:CG2	2.21	0.52
1:B:610:GLU:CB	1:B:614:LEU:O	2.57	0.52
1:B:681:ILE:CG2	1:B:731:VAL:HG13	2.23	0.52
1:B:705:ARG:H	1:B:708:ILE:CG1	2.22	0.52
1:B:719:ASN:O	1:B:721:HIS:N	2.42	0.52
1:A:44:PHE:CB	1:A:334:ARG:N	2.71	0.52
1:A:58:LYS:NZ	1:A:58:LYS:CB	2.73	0.52
1:A:159:SER:N	1:A:160:PRO:CD	2.73	0.52
1:A:198:MET:HE1	1:A:241:ARG:HD3	1.92	0.52
1:A:282:ASP:O	1:A:285:ARG:CB	2.48	0.52
1:A:290:LEU:HD12	1:A:290:LEU:C	2.29	0.52
1:A:349:ILE:CG1	1:A:350:ASP:H	2.16	0.52
1:A:449:TYR:N	1:A:455:PRO:CD	2.73	0.52
1:A:602:TYR:CD2	1:A:702:MET:CE	2.92	0.52
1:A:649:ALA:CA	1:A:652:ARG:NH1	2.73	0.52
1:B:45:SER:C	1:B:334:ARG:HH12	2.12	0.52
1:B:57:GLY:N	1:B:58:LYS:CE	2.73	0.52
1:B:58:LYS:N	1:B:58:LYS:CE	2.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:71:PHE:CE2	1:B:329:SER:CB	2.92	0.52
1:B:173:ARG:CG	1:B:173:ARG:NH1	2.72	0.52
1:B:244:PHE:HZ	1:B:318:ILE:CA	2.13	0.52
1:B:255:THR:CB	1:B:259:ARG:NH1	2.72	0.52
1:B:371:THR:N	1:B:623:ILE:HD11	2.20	0.52
1:B:501:VAL:C	1:B:519:VAL:O	2.48	0.52
1:B:590:GLU:CB	1:B:607:LYS:HB3	2.40	0.52
1:B:593:TYR:CD2	1:B:726:TRP:HB2	2.45	0.52
1:B:633:ILE:CG2	1:B:738:LEU:CG	2.82	0.52
1:B:737:LEU:CD1	1:B:737:LEU:N	2.73	0.52
1:A:23:GLY:HA2	1:A:299:LYS:HE3	1.92	0.52
1:A:193:SER:O	1:A:196:ARG:HB2	2.09	0.52
1:A:259:ARG:HD2	1:A:266:PRO:HB3	1.91	0.52
1:A:303:ARG:CD	1:A:304:ALA:N	2.73	0.52
1:A:334:ARG:CG	1:A:335:PRO:HD2	2.39	0.52
1:A:337:ASN:CG	1:A:340:THR:HG21	2.30	0.52
1:A:350:ASP:C	1:A:353:GLY:HA2	2.30	0.52
1:A:498:ASN:CB	1:A:522:VAL:CG1	2.85	0.52
1:A:533:ASN:ND2	1:A:541:ARG:NE	2.57	0.52
1:B:98:CYS:C	1:B:100:PRO:HD2	2.29	0.52
1:B:158:LEU:HB2	1:B:210:LEU:CD2	2.40	0.52
1:B:267:LYS:CD	1:B:268:GLU:N	2.73	0.52
1:B:288:LEU:HD22	1:B:492:HIS:HB3	1.91	0.52
1:B:321:PHE:CZ	1:B:326:SER:HB3	2.36	0.52
1:B:346:THR:H	1:B:359:VAL:HB	1.75	0.52
1:B:366:PHE:HB3	1:B:628:VAL:HG12	1.91	0.52
1:B:560:VAL:HG23	1:B:561:LEU:N	2.25	0.52
1:B:693:LEU:CD2	1:B:697:ARG:HH22	2.23	0.52
1:B:732:LEU:CD2	1:B:733:GLN:N	2.68	0.52
1:A:16:LEU:HG	1:A:462:LEU:C	2.30	0.52
1:A:35:GLN:CA	1:A:263:PRO:HB3	2.40	0.52
1:A:522:VAL:C	1:A:539:SER:HB2	2.30	0.52
1:A:540:ILE:HG13	1:A:551:TYR:OH	2.09	0.52
1:A:620:ARG:NH1	1:A:621:VAL:HA	2.24	0.52
1:A:675:LEU:CD2	1:A:725:ILE:HD11	2.40	0.52
1:A:718:ILE:CG2	1:A:722:ARG:HG2	2.39	0.52
1:A:748:LYS:NZ	1:A:748:LYS:CA	2.72	0.52
1:B:282:ASP:HA	1:B:285:ARG:CZ	2.40	0.52
1:B:288:LEU:HD13	1:B:495:VAL:HG11	1.88	0.52
1:B:587:PHE:HD1	1:B:587:PHE:H	1.57	0.52
1:B:714:LEU:O	1:B:719:ASN:HB3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:13:ALA:C	1:A:15:GLY:H	2.12	0.52
1:A:30:SER:C	1:A:31:VAL:HG12	2.28	0.52
1:A:124:GLY:O	1:A:125:LYS:HG3	2.09	0.52
1:A:259:ARG:C	1:A:266:PRO:CG	2.78	0.52
1:A:523:ARG:CZ	1:A:524:THR:C	2.78	0.52
1:A:541:ARG:CZ	1:A:542:THR:CA	2.84	0.52
1:A:602:TYR:HD2	1:A:702:MET:HE1	1.75	0.52
1:A:636:TRP:CE3	1:A:640:PHE:CG	2.97	0.52
1:A:637:TYR:HH	1:A:745:ALA:CB	2.09	0.52
1:B:14:ARG:HH11	1:B:14:ARG:CG	2.17	0.52
1:B:68:ARG:CZ	1:B:68:ARG:CB	2.87	0.52
1:B:111:THR:HG23	1:B:121:ASP:OD2	2.09	0.52
1:B:126:VAL:N	1:B:128:PRO:CD	2.73	0.52
1:B:318:ILE:N	1:B:319:PRO:CD	2.73	0.52
1:B:366:PHE:CE1	1:B:632:ILE:HG21	2.41	0.52
1:B:384:GLN:NE2	1:B:576:HIS:CA	2.61	0.52
1:B:640:PHE:CB	1:B:670:ASN:OD1	2.58	0.52
1:A:38:LEU:N	1:A:501:VAL:CG2	2.73	0.52
1:A:42:ARG:HG3	1:A:42:ARG:HH11	1.73	0.52
1:A:52:LEU:N	1:A:53:LEU:HD23	2.26	0.52
1:A:99:ASN:ND2	1:A:101:GLU:OE2	2.42	0.52
1:A:196:ARG:HH11	1:A:328:VAL:HG13	1.75	0.52
1:A:245:ASP:N	1:A:249:VAL:HG13	2.23	0.52
1:A:287:ASN:HD21	1:A:290:LEU:CD1	2.16	0.52
1:A:303:ARG:CG	1:A:304:ALA:N	2.72	0.52
1:A:313:LEU:CD1	1:A:313:LEU:N	2.73	0.52
1:A:453:ARG:NH2	1:A:475:ALA:HA	2.25	0.52
1:A:530:VAL:CG2	1:A:531:GLY:N	2.73	0.52
1:A:597:ILE:HD11	1:A:600:LYS:CD	2.40	0.52
1:A:641:VAL:HG12	1:A:642:GLU:N	2.24	0.52
1:B:14:ARG:HD2	1:B:26:LYS:HD2	1.92	0.52
1:B:58:LYS:N	1:B:58:LYS:CD	2.72	0.52
1:B:160:PRO:O	1:B:161:LEU:HD13	2.10	0.52
1:B:171:VAL:HG11	1:B:577:ILE:CA	2.15	0.52
1:B:329:SER:HG	1:B:331:PHE:H	1.51	0.52
1:B:361:TYR:HD2	1:B:414:VAL:HG11	1.63	0.52
1:B:408:PHE:O	1:B:410:VAL:CG1	2.58	0.52
1:B:586:GLU:O	1:B:622:ARG:CZ	2.51	0.52
1:B:694:ALA:CB	1:B:726:TRP:NE1	2.73	0.52
1:B:702:MET:C	1:B:708:ILE:HD13	2.30	0.52
1:A:212:ALA:HB2	1:A:221:ALA:HB2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:234:THR:HG23	1:A:237:PHE:CD2	2.45	0.51
1:A:291:PHE:CD1	1:A:292:ILE:N	2.73	0.51
1:A:310:ASP:HB3	1:A:313:LEU:H	1.75	0.51
1:A:314:SER:CB	1:A:318:ILE:C	2.59	0.51
1:A:534:ALA:O	1:A:535:ILE:CG2	2.58	0.51
1:A:548:ALA:C	1:A:551:TYR:HB2	2.30	0.51
1:A:612:LEU:CD2	1:A:612:LEU:N	2.73	0.51
1:A:656:ASP:N	1:A:656:ASP:OD1	2.43	0.51
1:B:25:LEU:HD13	1:B:25:LEU:N	2.23	0.51
1:B:81:SER:O	1:B:84:GLU:HB2	2.10	0.51
1:B:125:LYS:CB	1:B:165:LEU:O	2.57	0.51
1:B:170:TYR:HE1	1:B:577:ILE:O	1.93	0.51
1:B:183:PHE:CD1	1:B:250:VAL:CG1	2.93	0.51
1:B:259:ARG:HA	1:B:269:LEU:CD1	2.39	0.51
1:B:324:ALA:HB1	1:B:333:LEU:CD2	2.40	0.51
1:B:361:TYR:CE1	1:B:441:PHE:CD2	2.97	0.51
1:B:521:ASN:CB	1:B:541:ARG:CD	2.84	0.51
1:B:533:ASN:C	1:B:535:ILE:HA	2.31	0.51
1:B:627:THR:OG1	1:B:628:VAL:N	2.43	0.51
1:A:2:PHE:O	1:A:439:LEU:HD12	2.09	0.51
1:A:25:LEU:H	1:A:26:LYS:HZ1	1.57	0.51
1:A:35:GLN:CB	1:A:263:PRO:HB3	2.39	0.51
1:A:43:THR:C	1:A:44:PHE:CD1	2.84	0.51
1:A:82:VAL:HG21	1:A:188:ASP:HB3	1.92	0.51
1:A:144:GLU:C	1:A:147:HIS:H	2.13	0.51
1:A:336:ILE:CD1	1:A:336:ILE:N	2.73	0.51
1:A:347:SER:C	1:A:358:VAL:HG22	2.30	0.51
1:A:374:THR:CG2	1:A:620:ARG:NH1	2.73	0.51
1:A:374:THR:CB	1:A:620:ARG:NH1	2.73	0.51
1:A:510:ALA:CB	1:A:511:ALA:CB	2.84	0.51
1:A:536:GLU:OE1	1:A:537:GLY:N	2.44	0.51
1:A:725:ILE:O	1:A:725:ILE:HG22	2.10	0.51
1:B:103:TRP:CE3	1:B:103:TRP:N	2.76	0.51
1:B:144:GLU:O	1:B:148:HIS:N	2.40	0.51
1:B:267:LYS:HD2	1:B:268:GLU:N	2.24	0.51
1:B:267:LYS:CE	1:B:268:GLU:N	2.73	0.51
1:B:288:LEU:HD22	1:B:495:VAL:CG1	2.39	0.51
1:B:408:PHE:C	1:B:632:ILE:HD11	2.28	0.51
1:B:472:GLU:CA	1:B:475:ALA:HB3	2.39	0.51
1:B:732:LEU:HD23	1:B:733:GLN:CA	2.38	0.51
1:A:125:LYS:O	1:A:126:VAL:HB	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:467:VAL:O	1:A:468:ASP:C	2.48	0.51
1:A:520:TRP:CG	1:A:545:PRO:CG	2.90	0.51
1:A:568:LEU:CD1	1:A:569:ALA:N	2.74	0.51
1:B:6:VAL:CG1	1:B:7:LYS:N	2.73	0.51
1:B:90:THR:O	1:B:93:HIS:HB3	2.10	0.51
1:B:317:ILE:N	1:B:319:PRO:HD2	2.26	0.51
1:B:341:SER:CB	1:B:558:SER:HB3	2.40	0.51
1:B:362:GLU:HG2	1:B:440:GLY:O	2.10	0.51
1:B:535:ILE:CG1	1:B:540:ILE:HA	2.39	0.51
1:A:52:LEU:N	1:A:174:VAL:CG2	2.72	0.51
1:A:161:LEU:HD13	1:A:161:LEU:C	2.30	0.51
1:A:182:ASN:CA	1:A:484:PHE:CE2	2.86	0.51
1:A:267:LYS:O	1:A:269:LEU:O	2.29	0.51
1:A:352:MET:SD	1:A:427:ARG:CA	2.93	0.51
1:A:402:ALA:HB3	1:A:403:PRO:HD3	1.92	0.51
1:A:478:ASP:C	1:A:481:ARG:H	2.13	0.51
1:A:653:THR:CB	1:A:655:ARG:HG3	2.37	0.51
1:B:14:ARG:NH1	1:B:17:THR:CG2	2.73	0.51
1:B:14:ARG:HG3	1:B:465:GLY:CA	2.39	0.51
1:B:43:THR:HG22	1:B:289:ALA:H	1.74	0.51
1:B:107:THR:HG22	1:B:110:ILE:HD12	1.93	0.51
1:B:156:HIS:CD2	1:B:210:LEU:HD23	2.43	0.51
1:B:171:VAL:HB	1:B:575:ILE:HD13	1.92	0.51
1:B:269:LEU:HD12	1:B:271:PRO:HD2	1.91	0.51
1:B:297:MET:CE	1:B:301:ARG:NH2	2.74	0.51
1:B:628:VAL:C	1:B:631:ALA:HB3	2.30	0.51
1:B:681:ILE:O	1:B:684:THR:HG23	2.09	0.51
1:B:726:TRP:HE3	1:B:729:LEU:HB2	1.71	0.51
1:A:38:LEU:CD2	1:A:39:GLN:C	2.74	0.51
1:A:136:ARG:HG3	1:A:136:ARG:O	2.09	0.51
1:A:161:LEU:O	1:A:163:PHE:HB2	2.11	0.51
1:A:262:SER:HA	1:A:516:LEU:HD22	1.91	0.51
1:A:302:GLY:O	1:A:303:ARG:NH1	2.44	0.51
1:A:337:ASN:O	1:A:338:GLU:C	2.48	0.51
1:A:505:GLU:HA	1:A:516:LEU:HB3	1.93	0.51
1:A:602:TYR:HD2	1:A:698:ILE:HD11	1.76	0.51
1:A:654:SER:OG	1:A:654:SER:O	2.28	0.51
1:A:663:ILE:CD1	1:A:664:ASP:N	2.73	0.51
1:B:13:ALA:CA	1:B:463:ARG:HA	2.33	0.51
1:B:14:ARG:NH1	1:B:14:ARG:CG	2.73	0.51
1:B:44:PHE:HD1	1:B:333:LEU:HA	1.70	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:79:ALA:HB1	1:B:80:LEU:CD2	2.40	0.51
1:B:80:LEU:HD11	1:B:84:GLU:CG	2.27	0.51
1:B:362:GLU:CG	1:B:635:MET:CE	2.89	0.51
1:B:366:PHE:HE2	1:B:405:GLY:HA2	1.63	0.51
1:B:703:ALA:C	1:B:708:ILE:CD1	2.78	0.51
1:A:6:VAL:CG1	1:A:531:GLY:N	2.73	0.51
1:A:236:ALA:HA	1:A:239:ARG:CD	2.41	0.51
1:A:302:GLY:O	1:A:303:ARG:HB2	2.10	0.51
1:A:532:TYR:CZ	1:A:533:ASN:CG	2.84	0.51
1:A:558:SER:O	1:A:559:GLU:HB2	2.11	0.51
1:B:56:VAL:C	1:B:148:HIS:CE1	2.84	0.51
1:B:101:GLU:HB3	1:B:105:LYS:CD	2.40	0.51
1:B:318:ILE:CD1	1:B:318:ILE:N	2.73	0.51
1:B:400:THR:HG21	1:B:686:ILE:CB	2.41	0.51
1:B:400:THR:HG21	1:B:686:ILE:HG21	1.87	0.51
1:B:451:LEU:CG	1:B:453:ARG:NE	2.73	0.51
1:B:505:GLU:HB2	1:B:507:GLN:H	1.72	0.51
1:B:607:LYS:HD2	1:B:608:GLU:O	2.11	0.51
1:B:670:ASN:HD22	1:B:749:VAL:CG1	2.08	0.51
1:B:712:SER:OG	1:B:714:LEU:N	2.44	0.51
1:A:24:GLU:OE2	1:A:26:LYS:HG2	2.11	0.51
1:A:348:ALA:C	1:A:349:ILE:CG2	2.79	0.51
1:A:373:PHE:CD1	1:A:373:PHE:C	2.84	0.51
1:A:387:LEU:HD21	1:A:577:ILE:HG12	1.91	0.51
1:A:556:GLN:NE2	1:A:557:PRO:CD	2.73	0.51
1:A:557:PRO:CB	1:A:559:GLU:HB2	2.37	0.51
1:A:669:GLN:CB	1:B:123:VAL:HG13	2.40	0.51
1:A:713:ASP:O	1:A:714:LEU:HD22	2.08	0.51
1:A:732:LEU:C	1:A:738:LEU:HD11	2.12	0.51
1:B:35:GLN:HG3	1:B:503:VAL:O	2.11	0.51
1:B:74:ALA:O	1:B:75:GLN:C	2.49	0.51
1:B:171:VAL:CG2	1:B:578:TRP:CE3	2.94	0.51
1:B:262:SER:CB	1:B:269:LEU:CD2	2.89	0.51
1:B:453:ARG:NH2	1:B:478:ASP:CB	2.72	0.51
1:B:580:TRP:CZ3	1:B:624:LEU:HD12	2.45	0.51
1:B:668:MET:CG	1:B:753:SER:HB2	2.41	0.51
1:A:10:ASN:HA	1:A:14:ARG:HA	1.92	0.51
1:A:42:ARG:CB	1:A:289:ALA:HB3	2.40	0.51
1:A:58:LYS:HB3	1:A:58:LYS:HZ3	1.76	0.51
1:A:199:LEU:O	1:A:201:ALA:N	2.44	0.51
1:A:359:VAL:HG21	1:A:639:TRP:CH2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:377:LYS:CB	1:A:385:ARG:NH1	2.73	0.51
1:A:388:ASP:OD1	1:A:389:VAL:HG12	2.11	0.51
1:A:448:ASP:CA	1:A:455:PRO:HD3	2.40	0.51
1:A:505:GLU:HA	1:A:516:LEU:CA	2.41	0.51
1:A:542:THR:HG23	1:A:544:GLU:H	1.76	0.51
1:A:731:VAL:CG1	1:A:732:LEU:N	2.74	0.51
1:B:216:ALA:N	1:B:220:LEU:CD1	2.74	0.51
1:B:309:SER:OG	1:B:314:SER:C	2.44	0.51
1:B:309:SER:HA	1:B:314:SER:O	2.11	0.51
1:B:327:GLU:OE1	1:B:327:GLU:HA	2.11	0.51
1:B:334:ARG:HA	1:B:334:ARG:NE	2.26	0.51
1:B:712:SER:OG	1:B:714:LEU:HB2	2.11	0.51
1:A:475:ALA:O	1:A:478:ASP:HB2	2.11	0.51
1:B:43:THR:HG22	1:B:44:PHE:H	1.75	0.51
1:B:213:THR:O	1:B:220:LEU:HD22	2.11	0.51
1:B:265:THR:N	1:B:266:PRO:CD	2.73	0.51
1:B:376:VAL:HB	1:B:386:PHE:H	1.76	0.51
1:B:522:VAL:C	1:B:539:SER:HA	2.30	0.51
1:B:540:ILE:HD11	1:B:551:TYR:C	2.31	0.51
1:B:647:LEU:HD21	1:B:663:ILE:CG1	2.39	0.51
1:B:695:GLN:CA	1:B:698:ILE:CG1	2.85	0.51
1:A:105:LYS:NZ	1:A:137:THR:HG1	1.98	0.51
1:A:306:VAL:O	1:A:308:PHE:N	2.38	0.51
1:A:361:TYR:CD1	1:A:414:VAL:HG21	2.44	0.51
1:A:492:HIS:HA	1:A:495:VAL:HG21	1.90	0.51
1:A:498:ASN:O	1:A:500:GLU:HB2	2.10	0.51
1:A:580:TRP:CG	1:A:581:HIS:CA	2.85	0.51
1:A:580:TRP:CH2	1:A:581:HIS:ND1	2.79	0.51
1:B:204:SER:HG	1:B:205:VAL:N	2.09	0.51
1:B:235:THR:HB	1:B:239:ARG:HH12	1.74	0.51
1:B:261:TRP:HB3	1:B:291:PHE:CE2	2.46	0.51
1:B:267:LYS:CE	1:B:268:GLU:H	2.24	0.51
1:B:296:ASP:O	1:B:297:MET:C	2.49	0.51
1:B:359:VAL:HA	1:B:418:THR:CG2	2.41	0.51
1:B:377:LYS:HB2	1:B:385:ARG:NE	2.24	0.51
1:B:439:LEU:CD2	1:B:439:LEU:N	2.73	0.51
1:B:587:PHE:N	1:B:587:PHE:CD1	2.78	0.51
1:B:597:ILE:HG23	1:B:598:ARG:CG	2.41	0.51
1:A:89:PHE:HD2	1:A:146:PHE:CE2	2.29	0.50
1:A:104:ARG:NE	1:A:104:ARG:CA	2.74	0.50
1:A:474:ARG:O	1:A:475:ALA:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:14:ARG:HH12	1:B:17:THR:HG21	1.75	0.50
1:B:19:ALA:CA	1:B:22:ILE:HB	2.30	0.50
1:B:89:PHE:CE1	1:B:146:PHE:N	2.73	0.50
1:B:115:ASN:OD1	1:B:115:ASN:N	2.43	0.50
1:B:119:LYS:HG3	1:B:119:LYS:O	2.12	0.50
1:B:259:ARG:HG3	1:B:268:GLU:O	2.11	0.50
1:B:332:LYS:HZ2	1:B:332:LYS:HB3	1.76	0.50
1:B:583:ALA:H	1:B:584:SER:HA	1.74	0.50
1:B:693:LEU:CG	1:B:697:ARG:NH2	2.72	0.50
1:A:73:TYR:CD1	1:A:73:TYR:C	2.84	0.50
1:A:212:ALA:HB3	1:A:220:LEU:C	2.31	0.50
1:A:231:ASN:CG	1:A:232:ALA:N	2.62	0.50
1:A:361:TYR:CD2	1:A:362:GLU:CA	2.94	0.50
1:A:532:TYR:CE1	1:A:533:ASN:CG	2.85	0.50
1:A:694:ALA:O	1:A:698:ILE:HG22	2.12	0.50
1:B:4:LEU:O	1:B:436:GLU:HA	2.12	0.50
1:B:61:ILE:CG2	1:B:62:ASP:H	2.03	0.50
1:B:71:PHE:CD1	1:B:71:PHE:C	2.84	0.50
1:B:172:TYR:CZ	1:B:579:PRO:CD	2.94	0.50
1:B:257:LEU:O	1:B:258:GLY:C	2.45	0.50
1:B:297:MET:CE	1:B:301:ARG:HH21	2.24	0.50
1:B:409:ALA:O	1:B:412:ALA:N	2.44	0.50
1:B:521:ASN:HA	1:B:541:ARG:CD	2.42	0.50
1:A:20:PHE:C	1:A:22:ILE:N	2.60	0.50
1:A:53:LEU:HD23	1:A:53:LEU:N	2.26	0.50
1:A:53:LEU:C	1:A:54:TRP:CE3	2.85	0.50
1:A:86:VAL:HG21	1:A:191:ARG:HB3	1.93	0.50
1:A:180:TYR:CD1	1:A:180:TYR:C	2.84	0.50
1:A:222:PRO:CG	1:A:223:ALA:N	2.72	0.50
1:A:247:ASN:OD1	1:A:248:ALA:N	2.45	0.50
1:A:276:ARG:NE	1:A:276:ARG:N	2.59	0.50
1:A:322:ILE:HG22	1:A:325:MET:HE2	1.92	0.50
1:A:417:ARG:HH11	1:A:417:ARG:CB	2.23	0.50
1:A:494:ALA:CB	1:A:545:PRO:HB2	2.41	0.50
1:A:655:ARG:N	1:A:656:ASP:CB	2.72	0.50
1:B:51:GLU:HB2	1:B:564:LYS:HZ2	1.75	0.50
1:B:234:THR:HA	1:B:237:PHE:HB2	1.93	0.50
1:B:282:ASP:HB2	1:B:285:ARG:HH21	1.75	0.50
1:B:282:ASP:OD1	1:B:283:GLN:N	2.44	0.50
1:B:509:VAL:HG23	1:B:510:ALA:N	2.26	0.50
1:B:637:TYR:O	1:B:641:VAL:HG22	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:707:LEU:CD1	1:B:707:LEU:N	2.74	0.50
1:A:49:THR:CG2	1:A:50:SER:N	2.75	0.50
1:A:104:ARG:N	1:A:104:ARG:NE	2.60	0.50
1:A:456:MET:HG3	1:A:457:VAL:H	1.76	0.50
1:A:503:VAL:HG21	1:A:518:LEU:C	2.32	0.50
1:A:510:ALA:CB	1:A:511:ALA:CA	2.89	0.50
1:A:548:ALA:O	1:A:551:TYR:HB2	2.11	0.50
1:A:605:GLU:CG	1:A:607:LYS:NZ	2.73	0.50
1:A:617:ARG:HD3	1:A:618:ARG:O	2.09	0.50
1:A:723:ILE:CG2	1:A:724:ARG:N	2.73	0.50
1:B:349:ILE:HD11	1:B:351:HIS:C	2.31	0.50
1:B:525:GLU:O	1:B:527:ARG:NH2	2.44	0.50
1:B:540:ILE:HG23	1:B:551:TYR:CD2	2.46	0.50
1:A:283:GLN:O	1:A:287:ASN:HB3	2.10	0.50
1:A:419:ALA:C	1:A:421:TYR:CD1	2.84	0.50
1:A:523:ARG:O	1:A:539:SER:OG	2.29	0.50
1:A:617:ARG:NH1	1:A:617:ARG:CG	2.72	0.50
1:B:143:HIS:ND1	1:B:145:LEU:HD21	2.27	0.50
1:B:172:TYR:CE1	1:B:579:PRO:HD2	2.46	0.50
1:B:236:ALA:HA	1:B:239:ARG:NE	2.25	0.50
1:B:377:LYS:CG	1:B:385:ARG:HH12	2.21	0.50
1:B:385:ARG:N	1:B:577:ILE:HG21	2.26	0.50
1:B:451:LEU:CB	1:B:453:ARG:CD	2.85	0.50
1:B:506:HIS:HA	1:B:508:GLY:N	2.27	0.50
1:B:512:GLU:C	1:B:514:GLY:H	2.15	0.50
1:B:594:SER:O	1:B:601:ARG:NH2	2.45	0.50
1:B:597:ILE:HG21	1:B:714:LEU:CA	2.42	0.50
1:A:34:LEU:HG	1:A:35:GLN:HB2	1.93	0.50
1:A:94:GLN:NE2	1:A:237:PHE:CE1	2.55	0.50
1:A:177:THR:CG2	1:A:178:ALA:N	2.73	0.50
1:A:201:ALA:CA	1:A:204:SER:CB	2.85	0.50
1:A:203:SER:O	1:A:206:ASP:OD1	2.30	0.50
1:A:257:LEU:HD21	1:A:284:LEU:O	2.11	0.50
1:A:303:ARG:HH12	1:A:513:GLN:CG	2.15	0.50
1:A:566:LEU:HD13	1:A:568:LEU:CG	2.22	0.50
1:A:580:TRP:CD1	1:A:581:HIS:N	2.80	0.50
1:A:607:LYS:N	1:A:607:LYS:CE	2.74	0.50
1:A:608:GLU:O	1:A:609:PHE:C	2.49	0.50
1:B:2:PHE:CD1	1:B:2:PHE:C	2.85	0.50
1:B:5:LYS:CA	1:B:435:ALA:CB	2.85	0.50
1:B:97:ALA:O	1:B:100:PRO:HD3	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:342:TYR:CD2	1:B:559:GLU:CG	2.86	0.50
1:B:350:ASP:O	1:B:351:HIS:HB3	2.12	0.50
1:B:408:PHE:HA	1:B:413:PHE:CE2	2.46	0.50
1:B:678:ILE:HD12	1:B:679:GLU:HA	1.94	0.50
1:A:18:GLN:O	1:A:21:ALA:HB3	2.11	0.50
1:A:18:GLN:CD	1:A:520:TRP:CH2	2.80	0.50
1:A:42:ARG:H	1:A:289:ALA:HB2	0.55	0.50
1:A:53:LEU:CD1	1:A:171:VAL:HG13	2.36	0.50
1:A:183:PHE:CD2	1:A:184:TYR:CD1	3.00	0.50
1:A:261:TRP:HZ2	1:A:288:LEU:HA	1.76	0.50
1:A:345:GLN:HG2	1:A:556:GLN:N	2.26	0.50
1:A:363:ASP:C	1:A:561:LEU:O	2.51	0.50
1:A:493:TYR:O	1:A:497:HIS:HD2	1.95	0.50
1:A:502:VAL:HG23	1:A:503:VAL:HG12	1.94	0.50
1:A:523:ARG:C	1:A:539:SER:HA	2.32	0.50
1:A:553:LYS:HE3	1:A:554:PRO:HD3	1.90	0.50
1:A:623:ILE:CD1	1:A:624:LEU:N	2.74	0.50
1:A:754:ASN:N	1:A:755:ALA:HA	2.27	0.50
1:B:132:LEU:HD13	1:B:151:THR:CA	2.38	0.50
1:B:188:ASP:O	1:B:189:CYS:C	2.48	0.50
1:B:317:ILE:HA	1:B:320:TRP:CD2	2.46	0.50
1:B:383:ASN:O	1:B:385:ARG:N	2.44	0.50
1:B:383:ASN:O	1:B:577:ILE:HG21	2.12	0.50
1:B:498:ASN:HB3	1:B:520:TRP:HE3	1.76	0.50
1:B:601:ARG:HA	1:B:601:ARG:HE	1.77	0.50
1:B:607:LYS:CA	1:B:609:PHE:CB	2.83	0.50
1:B:608:GLU:O	1:B:609:PHE:HD1	1.92	0.50
1:A:25:LEU:N	1:A:26:LYS:HZ3	2.10	0.50
1:A:234:THR:O	1:A:237:PHE:N	2.44	0.50
1:A:355:PRO:HB2	1:A:434:GLY:N	2.24	0.50
1:A:359:VAL:HG23	1:A:437:MET:O	2.12	0.50
1:A:472:GLU:N	1:A:475:ALA:CB	2.75	0.50
1:A:724:ARG:HD3	1:A:724:ARG:N	2.25	0.50
1:B:53:LEU:HD11	1:B:571:HIS:CG	2.46	0.50
1:B:69:LEU:H	1:B:69:LEU:CD2	2.23	0.50
1:B:94:GLN:O	1:B:96:THR:N	2.45	0.50
1:B:196:ARG:HB2	1:B:328:VAL:HG11	1.92	0.50
1:B:205:VAL:CG1	1:B:232:ALA:CB	2.85	0.50
1:B:362:GLU:HA	1:B:441:PHE:CA	2.31	0.50
1:B:365:GLN:HE22	1:B:409:ALA:HA	1.75	0.50
1:B:460:ALA:HA	1:B:463:ARG:HD3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:594:SER:HB3	1:B:603:THR:H	1.73	0.50
1:B:668:MET:HA	1:B:671:ALA:H	1.76	0.50
1:B:688:ALA:HA	1:B:691:VAL:CG2	2.42	0.50
1:A:41:THR:O	1:A:336:ILE:CD1	2.60	0.50
1:A:181:PRO:CB	1:A:484:PHE:CE1	2.89	0.50
1:A:490:VAL:CG2	1:A:491:MET:N	2.73	0.50
1:A:524:THR:CG2	1:A:540:ILE:N	2.75	0.50
1:A:583:ALA:CA	1:A:625:LYS:HZ1	2.19	0.50
1:A:653:THR:O	1:A:655:ARG:CD	2.57	0.50
1:A:715:HIS:ND1	1:A:715:HIS:N	2.60	0.50
1:B:44:PHE:HE1	1:B:333:LEU:N	2.10	0.50
1:B:86:VAL:HB	1:B:191:ARG:CD	2.41	0.50
1:B:383:ASN:O	1:B:385:ARG:HG2	2.12	0.50
1:B:583:ALA:H	1:B:584:SER:CA	2.24	0.50
1:B:602:TYR:O	1:B:603:THR:CB	2.60	0.50
1:A:75:GLN:HE22	1:A:177:THR:HG23	1.75	0.49
1:A:121:ASP:N	1:A:121:ASP:OD1	2.44	0.49
1:A:247:ASN:O	1:A:251:SER:OG	2.30	0.49
1:A:299:LYS:O	1:A:301:ARG:O	2.30	0.49
1:A:346:THR:OG1	1:A:358:VAL:C	2.48	0.49
1:A:384:GLN:OE1	1:A:578:TRP:HZ2	1.95	0.49
1:A:419:ALA:O	1:A:421:TYR:HD1	1.95	0.49
1:A:503:VAL:HG21	1:A:517:TYR:O	2.11	0.49
1:A:508:GLY:CA	1:A:510:ALA:O	2.60	0.49
1:A:523:ARG:HG2	1:A:538:GLY:HA2	1.93	0.49
1:B:70:PHE:CE2	1:B:195:LEU:HD11	2.46	0.49
1:B:88:GLN:NE2	1:B:143:HIS:CG	2.80	0.49
1:B:153:PHE:CZ	1:B:202:LEU:C	2.85	0.49
1:B:249:VAL:CG2	1:B:318:ILE:CG2	2.84	0.49
1:B:358:VAL:CG2	1:B:438:THR:CB	2.86	0.49
1:B:596:THR:CG2	1:B:601:ARG:CD	2.90	0.49
1:B:652:ARG:HA	1:B:652:ARG:NE	2.21	0.49
1:B:715:HIS:N	1:B:715:HIS:ND1	2.60	0.49
1:B:723:ILE:O	1:B:726:TRP:HB3	2.11	0.49
1:B:755:ALA:O	1:B:758:MET:HA	2.12	0.49
1:A:38:LEU:N	1:A:501:VAL:HG21	2.26	0.49
1:A:42:ARG:CG	1:A:336:ILE:HD12	2.32	0.49
1:A:131:ILE:HG22	1:A:135:LEU:HG	1.93	0.49
1:A:259:ARG:CD	1:A:266:PRO:HA	2.40	0.49
1:A:298:VAL:CG1	1:A:299:LYS:N	2.75	0.49
1:A:303:ARG:CZ	1:A:513:GLN:HB3	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:343:ILE:N	1:A:362:GLU:OE2	2.45	0.49
1:A:370:ILE:HD12	1:A:370:ILE:C	2.32	0.49
1:A:715:HIS:ND1	1:A:716:VAL:N	2.60	0.49
1:A:729:LEU:O	1:A:729:LEU:HD22	2.13	0.49
1:A:758:MET:HE3	1:A:759:VAL:HA	1.94	0.49
1:A:758:MET:HG3	1:B:576:HIS:NE2	2.26	0.49
1:B:6:VAL:HG21	1:B:530:VAL:CB	2.41	0.49
1:B:90:THR:O	1:B:237:PHE:CZ	2.66	0.49
1:B:199:LEU:O	1:B:202:LEU:C	2.50	0.49
1:B:349:ILE:HG23	1:B:349:ILE:O	2.11	0.49
1:B:349:ILE:CG2	1:B:421:TYR:HE2	2.25	0.49
1:B:362:GLU:HG3	1:B:635:MET:HE2	1.94	0.49
1:B:364:TRP:CG	1:B:442:PRO:CG	2.95	0.49
1:B:366:PHE:CZ	1:B:408:PHE:HB2	2.48	0.49
1:B:491:MET:HA	1:B:494:ALA:HB3	1.93	0.49
1:B:617:ARG:N	1:B:618:ARG:CA	2.56	0.49
1:A:6:VAL:HG23	1:A:434:GLY:CA	2.19	0.49
1:A:257:LEU:C	1:A:261:TRP:CE3	2.85	0.49
1:A:257:LEU:CB	1:A:261:TRP:CH2	2.86	0.49
1:A:334:ARG:HG3	1:A:338:GLU:OE2	2.12	0.49
1:A:371:THR:O	1:A:623:ILE:HG12	2.12	0.49
1:A:500:GLU:CB	1:A:522:VAL:H	2.25	0.49
1:B:29:LEU:HD12	1:B:532:TYR:CZ	2.47	0.49
1:B:57:GLY:N	1:B:148:HIS:CE1	2.79	0.49
1:B:71:PHE:HD2	1:B:328:VAL:O	1.95	0.49
1:B:99:ASN:N	1:B:99:ASN:OD1	2.30	0.49
1:B:186:LEU:CD1	1:B:186:LEU:N	2.72	0.49
1:B:200:THR:CG2	1:B:201:ALA:H	2.17	0.49
1:B:236:ALA:CA	1:B:239:ARG:HG3	2.39	0.49
1:B:249:VAL:CG1	1:B:250:VAL:N	2.75	0.49
1:B:361:TYR:HB2	1:B:414:VAL:HG11	1.94	0.49
1:B:444:VAL:HG12	1:B:486:TYR:CG	2.45	0.49
1:B:471:LEU:O	1:B:476:SER:OG	2.28	0.49
1:B:580:TRP:HZ3	1:B:624:LEU:HD12	1.77	0.49
1:B:676:ARG:CG	1:B:676:ARG:NH1	2.73	0.49
1:B:724:ARG:NH1	1:B:724:ARG:CB	2.72	0.49
1:A:20:PHE:CD1	1:A:20:PHE:C	2.85	0.49
1:A:92:TYR:CE1	1:A:146:PHE:HB2	2.48	0.49
1:A:136:ARG:HD2	1:A:381:ASN:O	2.12	0.49
1:A:190:VAL:HA	1:A:193:SER:OG	2.12	0.49
1:A:222:PRO:CG	1:A:223:ALA:H	2.22	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:283:GLN:CA	1:A:286:SER:CB	2.85	0.49
1:A:580:TRP:CZ3	1:A:581:HIS:ND1	2.81	0.49
1:A:669:GLN:HB2	1:B:123:VAL:HG13	1.88	0.49
1:A:712:SER:HB3	1:A:713:ASP:HA	1.94	0.49
1:B:35:GLN:CB	1:B:502:VAL:CB	2.83	0.49
1:B:47:SER:N	1:B:332:LYS:NZ	2.60	0.49
1:B:103:TRP:HE1	1:B:231:ASN:N	2.10	0.49
1:B:284:LEU:CD2	1:B:290:LEU:CD2	2.85	0.49
1:B:289:ALA:HB2	1:B:492:HIS:CD2	2.46	0.49
1:B:306:VAL:O	1:B:306:VAL:HG22	2.10	0.49
1:B:360:VAL:HG22	1:B:439:LEU:HA	1.92	0.49
1:B:435:ALA:O	1:B:436:GLU:HG3	2.12	0.49
1:B:453:ARG:NH1	1:B:453:ARG:CA	2.75	0.49
1:B:485:ASN:OD1	1:B:486:TYR:CD1	2.59	0.49
1:B:521:ASN:CA	1:B:541:ARG:CD	2.90	0.49
1:B:535:ILE:HG12	1:B:540:ILE:C	2.33	0.49
1:A:128:PRO:HB3	1:A:166:PRO:C	2.32	0.49
1:A:303:ARG:NH1	1:A:303:ARG:CB	2.73	0.49
1:A:337:ASN:ND2	1:A:496:ALA:CB	2.70	0.49
1:A:387:LEU:CD2	1:A:577:ILE:HG12	2.43	0.49
1:A:503:VAL:HG11	1:A:517:TYR:O	2.13	0.49
1:B:24:GLU:O	1:B:24:GLU:HG2	2.13	0.49
1:B:24:GLU:HG2	1:B:28:GLN:HG3	1.95	0.49
1:B:42:ARG:NE	1:B:337:ASN:N	2.60	0.49
1:B:42:ARG:NH2	1:B:335:PRO:O	2.43	0.49
1:B:57:GLY:H	1:B:58:LYS:CE	2.25	0.49
1:B:80:LEU:HD21	1:B:84:GLU:OE1	2.12	0.49
1:B:180:TYR:CD1	1:B:489:ALA:HA	2.48	0.49
1:B:326:SER:O	1:B:327:GLU:OE1	2.30	0.49
1:B:396:ARG:CG	1:B:612:LEU:CD2	2.90	0.49
1:B:501:VAL:HG22	1:B:520:TRP:CE2	2.47	0.49
1:B:716:VAL:HB	1:B:718:ILE:H	1.78	0.49
1:B:724:ARG:HB2	1:B:724:ARG:CZ	2.42	0.49
1:A:297:MET:CA	1:A:297:MET:CE	2.91	0.49
1:A:323:GLU:O	1:A:326:SER:OG	2.27	0.49
1:A:575:ILE:HG13	1:A:576:HIS:H	1.77	0.49
1:A:738:LEU:C	1:A:739:SER:HG	2.14	0.49
1:B:199:LEU:HA	1:B:202:LEU:HB2	1.94	0.49
1:B:298:VAL:O	1:B:302:GLY:CA	2.60	0.49
1:B:308:PHE:CD1	1:B:308:PHE:C	2.85	0.49
1:B:360:VAL:CG2	1:B:439:LEU:CA	2.85	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:361:TYR:HB3	1:B:414:VAL:HB	1.94	0.49
1:B:408:PHE:CE1	1:B:633:ILE:HD11	2.46	0.49
1:B:444:VAL:CG1	1:B:486:TYR:CG	2.96	0.49
1:B:544:GLU:CB	1:B:547:GLU:HG2	2.40	0.49
1:B:640:PHE:HD1	1:B:670:ASN:OD1	1.94	0.49
1:B:668:MET:CA	1:B:671:ALA:HB3	2.39	0.49
1:B:681:ILE:C	1:B:731:VAL:CG2	2.53	0.49
1:A:68:ARG:NH1	1:A:68:ARG:HG2	2.28	0.49
1:A:159:SER:H	1:A:160:PRO:HD3	1.77	0.49
1:A:214:PHE:HA	1:A:217:LYS:O	2.13	0.49
1:A:268:GLU:O	1:A:269:LEU:O	2.30	0.49
1:A:303:ARG:CZ	1:A:303:ARG:CA	2.85	0.49
1:A:555:ILE:CG1	1:A:556:GLN:N	2.72	0.49
1:A:649:ALA:N	1:A:652:ARG:NH1	2.60	0.49
1:A:741:SER:OG	1:A:742:GLU:N	2.45	0.49
1:B:42:ARG:HE	1:B:336:ILE:CA	2.17	0.49
1:B:69:LEU:HG	1:B:172:TYR:CD1	2.46	0.49
1:B:119:LYS:HZ2	1:B:218:GLY:H	1.58	0.49
1:B:123:VAL:N	1:B:163:PHE:HD2	2.10	0.49
1:B:208:LYS:HA	1:B:208:LYS:HZ2	1.69	0.49
1:B:260:LEU:HG	1:B:285:ARG:CB	2.34	0.49
1:B:364:TRP:CG	1:B:442:PRO:HG3	2.48	0.49
1:B:417:ARG:HH21	1:B:639:TRP:CB	2.18	0.49
1:B:715:HIS:CB	1:B:719:ASN:ND2	2.73	0.49
1:A:3:ASN:HA	1:A:436:GLU:HG3	1.93	0.49
1:A:45:SER:O	1:A:332:LYS:HD2	2.13	0.49
1:A:101:GLU:CB	1:A:104:ARG:HD2	2.24	0.49
1:A:143:HIS:HB2	1:A:145:LEU:CD1	2.24	0.49
1:A:210:LEU:C	1:A:212:ALA:O	2.51	0.49
1:A:365:GLN:CG	1:A:367:ALA:HB3	2.43	0.49
1:A:370:ILE:CD1	1:A:371:THR:N	2.74	0.49
1:A:566:LEU:CD1	1:A:568:LEU:CB	2.91	0.49
1:A:608:GLU:HG3	1:A:609:PHE:N	2.27	0.49
1:A:676:ARG:HA	1:A:679:GLU:OE2	2.13	0.49
1:A:681:ILE:HG22	1:A:731:VAL:HG11	1.94	0.49
1:B:117:ALA:CA	1:B:222:PRO:CG	2.90	0.49
1:B:125:LYS:CA	1:B:128:PRO:CD	2.86	0.49
1:B:288:LEU:CB	1:B:495:VAL:HG11	2.43	0.49
1:B:295:GLN:HG2	1:B:296:ASP:N	2.28	0.49
1:B:332:LYS:NZ	1:B:332:LYS:HB3	2.27	0.49
1:B:370:ILE:HG22	1:B:623:ILE:HD11	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:639:TRP:CD1	1:B:639:TRP:C	2.85	0.49
1:B:756:LEU:HD12	1:B:756:LEU:C	2.32	0.49
1:A:265:THR:CG2	1:A:267:LYS:CA	2.91	0.49
1:A:365:GLN:NE2	1:A:367:ALA:N	2.60	0.49
1:A:425:SER:OG	1:A:426:GLN:HB3	2.12	0.49
1:A:484:PHE:O	1:A:484:PHE:HD1	1.96	0.49
1:A:524:THR:HG23	1:A:540:ILE:N	2.26	0.49
1:A:584:SER:HB3	1:A:586:GLU:HB2	1.95	0.49
1:A:655:ARG:N	1:A:656:ASP:CA	2.76	0.49
1:A:681:ILE:O	1:A:684:THR:CG2	2.60	0.49
1:A:733:GLN:HE21	1:A:738:LEU:HD11	1.77	0.49
1:B:71:PHE:C	1:B:71:PHE:HD1	2.15	0.49
1:B:105:LYS:N	1:B:105:LYS:NZ	2.60	0.49
1:B:158:LEU:HA	1:B:160:PRO:CD	2.42	0.49
1:B:173:ARG:HG2	1:B:566:LEU:HD12	1.94	0.49
1:B:233:ALA:CA	1:B:236:ALA:HB3	2.38	0.49
1:B:261:TRP:NE1	1:B:285:ARG:O	2.45	0.49
1:B:308:PHE:CE1	1:B:319:PRO:HD3	2.48	0.49
1:B:352:MET:O	1:B:352:MET:HE3	2.12	0.49
1:B:593:TYR:HB3	1:B:726:TRP:CD2	2.48	0.49
1:B:597:ILE:HG23	1:B:598:ARG:HG2	1.94	0.49
1:B:653:THR:HG1	1:B:654:SER:H	1.60	0.49
1:B:687:GLY:O	1:B:690:ALA:N	2.46	0.49
1:A:217:LYS:O	1:A:219:ALA:HB2	2.12	0.49
1:A:286:SER:C	1:A:288:LEU:N	2.62	0.49
1:A:476:SER:CA	1:A:479:LEU:H	2.25	0.49
1:A:479:LEU:HD12	1:A:479:LEU:H	1.76	0.49
1:B:8:ASP:OD1	1:B:9:LEU:CA	2.60	0.49
1:B:12:SER:O	1:B:463:ARG:HA	2.13	0.49
1:B:43:THR:H	1:B:334:ARG:HB2	1.78	0.49
1:B:43:THR:CG2	1:B:44:PHE:N	2.75	0.49
1:B:66:TYR:O	1:B:67:ALA:C	2.50	0.49
1:B:82:VAL:O	1:B:85:LEU:HB3	2.13	0.49
1:B:105:LYS:O	1:B:109:TYR:HB2	2.13	0.49
1:B:376:VAL:CA	1:B:386:PHE:H	2.26	0.49
1:B:433:ASN:N	1:B:433:ASN:ND2	2.60	0.49
1:B:577:ILE:HD11	1:B:580:TRP:HB3	1.95	0.49
1:B:721:HIS:N	1:B:721:HIS:ND1	2.59	0.49
1:A:170:TYR:CE2	1:A:578:TRP:CH2	3.00	0.48
1:A:281:ILE:HD13	1:A:285:ARG:NH2	2.26	0.48
1:A:345:GLN:C	1:A:360:VAL:HG12	2.33	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:429:THR:HG23	1:A:430:VAL:N	2.28	0.48
1:A:430:VAL:CG1	1:A:529:PRO:CB	2.85	0.48
1:B:4:LEU:CA	1:B:5:LYS:CG	2.85	0.48
1:B:29:LEU:O	1:B:30:SER:C	2.50	0.48
1:B:102:ILE:CG2	1:B:135:LEU:HG	2.43	0.48
1:B:132:LEU:HB3	1:B:151:THR:HG22	1.95	0.48
1:B:142:GLU:CD	1:B:143:HIS:N	2.65	0.48
1:B:215:LYS:NZ	1:B:215:LYS:CA	2.76	0.48
1:B:257:LEU:HD23	1:B:294:TYR:HB3	1.94	0.48
1:B:260:LEU:CG	1:B:285:ARG:CB	2.85	0.48
1:B:317:ILE:HG12	1:B:320:TRP:HE1	1.75	0.48
1:B:378:LEU:CD1	1:B:379:ALA:N	2.73	0.48
1:B:407:THR:CG2	1:B:408:PHE:HD2	1.95	0.48
1:B:455:PRO:CB	1:B:459:ILE:HD11	2.37	0.48
1:B:523:ARG:CB	1:B:523:ARG:NH1	2.76	0.48
1:B:587:PHE:N	1:B:587:PHE:HD1	2.10	0.48
1:B:726:TRP:HA	1:B:726:TRP:HE3	1.76	0.48
1:B:757:GLY:C	1:B:759:VAL:N	2.63	0.48
1:A:25:LEU:N	1:A:26:LYS:NZ	2.60	0.48
1:A:62:ASP:HB3	1:A:66:TYR:CE1	2.45	0.48
1:A:418:THR:O	1:A:421:TYR:CG	2.66	0.48
1:A:493:TYR:CD1	1:A:493:TYR:C	2.86	0.48
1:A:507:GLN:CG	1:A:508:GLY:N	2.76	0.48
1:A:523:ARG:C	1:A:539:SER:CA	2.82	0.48
1:B:2:PHE:CG	1:B:3:ASN:N	2.81	0.48
1:B:47:SER:CB	1:B:332:LYS:NZ	2.72	0.48
1:B:87:ASN:ND2	1:B:88:GLN:H	2.11	0.48
1:B:118:ILE:C	1:B:221:ALA:HA	2.33	0.48
1:B:188:ASP:O	1:B:190:VAL:N	2.47	0.48
1:B:205:VAL:HG12	1:B:206:ASP:N	2.29	0.48
1:B:211:GLN:O	1:B:214:PHE:HE1	1.96	0.48
1:B:236:ALA:HB2	1:B:239:ARG:NE	2.28	0.48
1:B:317:ILE:HA	1:B:320:TRP:CE2	2.47	0.48
1:B:593:TYR:CE2	1:B:723:ILE:HB	2.48	0.48
1:B:598:ARG:NH2	1:B:708:ILE:CA	2.76	0.48
1:B:725:ILE:HD12	1:B:729:LEU:HD23	1.95	0.48
1:A:61:ILE:CG1	1:A:66:TYR:HE2	2.12	0.48
1:A:182:ASN:O	1:A:185:ALA:N	2.45	0.48
1:A:271:PRO:CA	1:A:276:ARG:NH1	2.76	0.48
1:A:310:ASP:HB2	1:A:313:LEU:HD22	1.94	0.48
1:A:387:LEU:CD1	1:A:577:ILE:HG23	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:445:VAL:O	1:A:449:TYR:HB3	2.13	0.48
1:A:532:TYR:OH	1:A:541:ARG:CD	2.59	0.48
1:A:587:PHE:CE2	1:A:621:VAL:C	2.87	0.48
1:A:595:VAL:CG1	1:A:698:ILE:CD1	2.85	0.48
1:A:629:ALA:O	1:A:633:ILE:HG12	2.12	0.48
1:A:683:THR:C	1:A:684:THR:HG22	2.33	0.48
1:A:733:GLN:HE21	1:A:738:LEU:CD1	2.25	0.48
1:B:27:ASN:ND2	1:B:27:ASN:N	2.60	0.48
1:B:40:PHE:CE2	1:B:495:VAL:CG1	2.83	0.48
1:B:74:ALA:HB2	1:B:82:VAL:HG22	1.95	0.48
1:B:102:ILE:CG2	1:B:135:LEU:CG	2.92	0.48
1:B:111:THR:OG1	1:B:111:THR:O	2.30	0.48
1:B:182:ASN:ND2	1:B:183:PHE:N	2.60	0.48
1:B:255:THR:HB	1:B:259:ARG:NH1	2.27	0.48
1:B:297:MET:O	1:B:301:ARG:N	2.38	0.48
1:B:618:ARG:N	1:B:619:GLU:CA	2.73	0.48
1:B:639:TRP:HD1	1:B:639:TRP:O	1.96	0.48
1:A:158:LEU:N	1:A:158:LEU:CD1	2.76	0.48
1:A:170:TYR:CE2	1:A:576:HIS:CD2	3.00	0.48
1:A:272:SER:HB2	1:A:275:LEU:CD1	2.36	0.48
1:A:346:THR:H	1:A:360:VAL:HG12	1.78	0.48
1:A:716:VAL:CG2	1:B:378:LEU:CD1	2.85	0.48
1:B:2:PHE:HZ	1:B:4:LEU:CD2	2.01	0.48
1:B:43:THR:HG22	1:B:44:PHE:N	2.28	0.48
1:B:136:ARG:HH11	1:B:147:HIS:CD2	2.31	0.48
1:B:352:MET:HB3	1:B:352:MET:HE2	1.64	0.48
1:B:368:LYS:CD	1:B:369:GLU:OE1	2.61	0.48
1:B:493:TYR:CD1	1:B:497:HIS:CE1	2.99	0.48
1:B:593:TYR:CE1	1:B:722:ARG:CD	2.97	0.48
1:B:615:GLY:HA2	1:B:616:GLN:CB	2.43	0.48
1:B:729:LEU:CG	1:B:732:LEU:HD13	2.44	0.48
1:A:38:LEU:N	1:A:501:VAL:CB	2.76	0.48
1:A:99:ASN:ND2	1:A:101:GLU:OE1	2.41	0.48
1:A:159:SER:N	1:A:160:PRO:HD3	2.29	0.48
1:A:263:PRO:CB	1:A:502:VAL:HG21	2.41	0.48
1:A:364:TRP:HA	1:A:561:LEU:O	2.12	0.48
1:A:387:LEU:HD21	1:A:577:ILE:CG1	2.42	0.48
1:A:503:VAL:CB	1:A:519:VAL:HB	2.42	0.48
1:A:587:PHE:CE2	1:A:621:VAL:O	2.66	0.48
1:A:654:SER:N	1:A:655:ARG:CA	2.76	0.48
1:A:716:VAL:CG2	1:A:717:GLY:N	2.73	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:22:ILE:N	1:B:22:ILE:CD1	2.77	0.48
1:B:56:VAL:H	1:B:170:TYR:CB	2.24	0.48
1:B:102:ILE:CG1	1:B:103:TRP:CZ3	2.95	0.48
1:B:125:LYS:O	1:B:165:LEU:HD22	2.13	0.48
1:B:288:LEU:CG	1:B:495:VAL:HG11	2.44	0.48
1:B:308:PHE:HD1	1:B:309:SER:N	2.10	0.48
1:B:404:ILE:CD1	1:B:735:MET:CG	2.86	0.48
1:B:600:LYS:HG3	1:B:708:ILE:HG21	1.93	0.48
1:B:608:GLU:C	1:B:609:PHE:CD1	2.85	0.48
1:B:623:ILE:O	1:B:625:LYS:CB	2.61	0.48
1:B:631:ALA:O	1:B:635:MET:HG2	2.13	0.48
1:B:702:MET:CE	1:B:714:LEU:CG	2.91	0.48
1:A:213:THR:HB	1:A:215:LYS:CB	2.42	0.48
1:A:213:THR:OG1	1:A:214:PHE:N	2.47	0.48
1:A:276:ARG:CA	1:A:278:THR:HG23	2.16	0.48
1:A:294:TYR:CE2	1:A:516:LEU:HG	2.46	0.48
1:A:467:VAL:O	1:A:467:VAL:HG13	2.12	0.48
1:A:547:GLU:O	1:A:551:TYR:HB2	2.12	0.48
1:B:53:LEU:CD2	1:B:571:HIS:ND1	2.50	0.48
1:B:101:GLU:O	1:B:105:LYS:HB2	2.14	0.48
1:B:102:ILE:O	1:B:106:LEU:HD23	2.13	0.48
1:B:180:TYR:CE2	1:B:488:ALA:O	2.67	0.48
1:B:258:GLY:HA3	1:B:294:TYR:CE1	2.49	0.48
1:B:317:ILE:C	1:B:320:TRP:H	2.02	0.48
1:B:437:MET:HE2	1:B:550:ALA:CA	2.42	0.48
1:B:650:ALA:C	1:B:653:THR:HG1	2.10	0.48
1:B:664:ASP:O	1:B:668:MET:HB2	2.13	0.48
1:B:708:ILE:HD12	1:B:709:ASP:HA	1.94	0.48
1:B:756:LEU:CD1	1:B:757:GLY:N	2.76	0.48
1:A:89:PHE:HE2	1:A:146:PHE:CD2	2.20	0.48
1:A:92:TYR:C	1:A:95:SER:HG	2.14	0.48
1:A:194:ASP:O	1:A:198:MET:CB	2.61	0.48
1:A:231:ASN:O	1:A:235:THR:CB	2.62	0.48
1:A:241:ARG:CG	1:A:243:ASN:OD1	2.62	0.48
1:A:250:VAL:O	1:A:253:VAL:CG1	2.61	0.48
1:A:252:SER:CB	1:A:308:PHE:CE1	2.96	0.48
1:A:314:SER:HB2	1:A:318:ILE:O	2.12	0.48
1:A:374:THR:HG22	1:A:620:ARG:HH12	1.79	0.48
1:A:413:PHE:CD1	1:A:413:PHE:C	2.86	0.48
1:A:417:ARG:NH1	1:A:417:ARG:CG	2.73	0.48
1:A:477:ASN:OD1	1:A:478:ASP:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:7:LYS:HZ2	1:B:531:GLY:C	1.97	0.48
1:B:9:LEU:CD2	1:B:16:LEU:CB	2.85	0.48
1:B:173:ARG:HG3	1:B:566:LEU:HD11	1.95	0.48
1:B:270:ASP:N	1:B:271:PRO:CD	2.76	0.48
1:B:282:ASP:OD1	1:B:283:GLN:NE2	2.46	0.48
1:B:294:TYR:HE2	1:B:516:LEU:CG	2.27	0.48
1:B:308:PHE:CZ	1:B:318:ILE:CA	2.84	0.48
1:B:317:ILE:CG2	1:B:320:TRP:CE2	2.93	0.48
1:B:726:TRP:CZ3	1:B:729:LEU:CB	2.96	0.48
1:A:59:GLY:CA	1:A:155:CYS:SG	2.98	0.48
1:A:62:ASP:CG	1:A:65:MET:HB2	2.34	0.48
1:A:105:LYS:NZ	1:A:138:LEU:HD12	2.28	0.48
1:A:285:ARG:O	1:A:288:LEU:HD22	2.14	0.48
1:A:347:SER:OG	1:A:348:ALA:HA	2.14	0.48
1:A:383:ASN:C	1:A:384:GLN:O	2.48	0.48
1:A:493:TYR:CZ	1:A:549:ILE:CB	2.97	0.48
1:A:523:ARG:NH1	1:A:525:GLU:N	2.60	0.48
1:A:524:THR:N	1:A:539:SER:HA	2.29	0.48
1:A:542:THR:CG2	1:A:545:PRO:HA	2.43	0.48
1:A:553:LYS:CE	1:A:554:PRO:CD	2.85	0.48
1:A:605:GLU:CG	1:A:607:LYS:HZ2	2.26	0.48
1:B:12:SER:O	1:B:463:ARG:HB3	2.13	0.48
1:B:14:ARG:CB	1:B:465:GLY:CA	2.85	0.48
1:B:36:LEU:HB3	1:B:37:PRO:CD	2.43	0.48
1:B:40:PHE:N	1:B:286:SER:OG	2.47	0.48
1:B:68:ARG:NH1	1:B:68:ARG:CB	2.76	0.48
1:B:171:VAL:HG22	1:B:578:TRP:HE3	1.77	0.48
1:B:268:GLU:HG3	1:B:305:GLU:OE2	2.14	0.48
1:B:272:SER:O	1:B:276:ARG:CD	2.60	0.48
1:B:275:LEU:CD1	1:B:316:THR:N	2.74	0.48
1:B:282:ASP:C	1:B:285:ARG:HG3	2.33	0.48
1:B:340:THR:HB	1:B:342:TYR:CZ	2.49	0.48
1:B:349:ILE:CD1	1:B:353:GLY:CA	2.85	0.48
1:B:361:TYR:CD1	1:B:361:TYR:C	2.87	0.48
1:B:526:LEU:CD2	1:B:527:ARG:NH1	2.73	0.48
1:B:618:ARG:HG2	1:B:618:ARG:HH11	1.79	0.48
1:B:661:LEU:CD2	1:B:662:ALA:N	2.73	0.48
1:B:693:LEU:CG	1:B:697:ARG:HH12	2.20	0.48
1:A:24:GLU:HA	1:A:26:LYS:HB2	1.93	0.48
1:A:108:ALA:O	1:A:112:GLY:C	2.52	0.48
1:A:187:VAL:CA	1:A:190:VAL:CG2	2.85	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:196:ARG:HH11	1:A:328:VAL:CG1	2.26	0.48
1:A:281:ILE:O	1:A:284:LEU:N	2.46	0.48
1:A:287:ASN:ND2	1:A:287:ASN:O	2.46	0.48
1:A:375:PRO:HD2	1:A:620:ARG:HD2	1.96	0.48
1:A:476:SER:O	1:A:478:ASP:CA	2.61	0.48
1:A:532:TYR:CE1	1:A:533:ASN:ND2	2.82	0.48
1:B:14:ARG:HG3	1:B:465:GLY:HA3	1.95	0.48
1:B:69:LEU:HG	1:B:172:TYR:CZ	2.49	0.48
1:B:72:GLN:CD	1:B:174:VAL:HG12	2.35	0.48
1:B:145:LEU:HD13	1:B:146:PHE:CD1	2.48	0.48
1:B:373:PHE:HB2	1:B:622:ARG:O	2.14	0.48
1:B:471:LEU:HB2	1:B:476:SER:OG	2.13	0.48
1:B:552:ASN:CA	1:B:553:LYS:CE	2.86	0.48
1:B:577:ILE:CD1	1:B:578:TRP:CE3	2.96	0.48
1:B:604:ALA:HB1	1:B:697:ARG:CB	2.43	0.48
1:B:623:ILE:HD13	1:B:623:ILE:C	2.34	0.48
1:B:655:ARG:HA	1:B:655:ARG:CZ	2.44	0.48
1:A:25:LEU:H	1:A:26:LYS:HZ3	1.60	0.48
1:A:143:HIS:HD2	1:A:146:PHE:CZ	2.32	0.48
1:A:303:ARG:NE	1:A:304:ALA:N	2.59	0.48
1:A:417:ARG:HG3	1:A:643:ASP:OD2	2.13	0.48
1:A:502:VAL:N	1:A:518:LEU:CD1	2.76	0.48
1:A:522:VAL:O	1:A:539:SER:HB2	2.14	0.48
1:A:566:LEU:HD13	1:A:568:LEU:CB	2.44	0.48
1:A:568:LEU:HD12	1:A:569:ALA:H	1.78	0.48
1:A:589:TYR:CE2	1:A:591:ASP:CB	2.85	0.48
1:A:630:HIS:HB2	1:A:737:LEU:HD11	1.71	0.48
1:B:123:VAL:CG2	1:B:124:GLY:N	2.75	0.48
1:B:313:LEU:CA	1:B:316:THR:CB	2.90	0.48
1:B:370:ILE:CD1	1:B:401:LEU:HD12	2.44	0.48
1:B:533:ASN:HB2	1:B:535:ILE:HD11	1.96	0.48
1:B:535:ILE:HD11	1:B:540:ILE:C	2.34	0.48
1:B:575:ILE:HB	1:B:576:HIS:CA	2.43	0.48
1:B:575:ILE:HB	1:B:576:HIS:CB	2.44	0.48
1:B:702:MET:HA	1:B:702:MET:HE3	1.92	0.48
1:B:744:GLU:HA	1:B:747:THR:CG2	2.43	0.48
1:A:36:LEU:CG	1:A:263:PRO:N	2.77	0.47
1:A:127:PRO:C	1:A:166:PRO:CG	2.81	0.47
1:A:206:ASP:N	1:A:206:ASP:OD1	2.45	0.47
1:A:262:SER:CB	1:A:516:LEU:CD2	2.87	0.47
1:A:272:SER:HB2	1:A:275:LEU:CB	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:278:THR:CG2	1:A:281:ILE:CG2	2.85	0.47
1:A:337:ASN:N	1:A:338:GLU:OE1	2.47	0.47
1:A:583:ALA:O	1:A:584:SER:HB2	2.13	0.47
1:B:54:TRP:NE1	1:B:69:LEU:HD21	2.27	0.47
1:B:173:ARG:C	1:B:174:VAL:HG13	2.34	0.47
1:B:281:ILE:HA	1:B:284:LEU:HB3	1.95	0.47
1:B:505:GLU:CA	1:B:506:HIS:C	2.82	0.47
1:B:520:TRP:C	1:B:541:ARG:HD2	2.34	0.47
1:A:221:ALA:O	1:A:222:PRO:C	2.52	0.47
1:A:299:LYS:HB3	1:A:300:GLN:HE22	1.78	0.47
1:A:345:GLN:NE2	1:A:346:THR:H	2.10	0.47
1:A:523:ARG:CZ	1:A:525:GLU:N	2.77	0.47
1:A:595:VAL:HG21	1:A:698:ILE:HG13	1.96	0.47
1:B:30:SER:HB2	1:B:517:TYR:CD2	2.48	0.47
1:B:171:VAL:HG21	1:B:575:ILE:HD13	1.95	0.47
1:B:245:ASP:O	1:B:248:ALA:HB3	2.13	0.47
1:B:471:LEU:CD1	1:B:479:LEU:HB3	2.45	0.47
1:B:540:ILE:HG21	1:B:548:ALA:HA	1.96	0.47
1:B:632:ILE:CG2	1:B:633:ILE:N	2.78	0.47
1:A:10:ASN:CA	1:A:14:ARG:HB2	2.43	0.47
1:A:36:LEU:HG	1:A:263:PRO:N	2.28	0.47
1:A:41:THR:O	1:A:336:ILE:HG13	2.13	0.47
1:A:294:TYR:CZ	1:A:516:LEU:CG	2.88	0.47
1:A:310:ASP:CB	1:A:313:LEU:CD1	2.85	0.47
1:A:322:ILE:HG13	1:A:324:ALA:H	1.79	0.47
1:A:491:MET:HE1	1:A:520:TRP:CH2	2.48	0.47
1:A:595:VAL:HG21	1:A:698:ILE:CD1	2.44	0.47
1:A:618:ARG:HB3	1:A:618:ARG:NH1	2.29	0.47
1:A:729:LEU:CD2	1:A:738:LEU:HD11	2.42	0.47
1:B:97:ALA:O	1:B:100:PRO:CD	2.62	0.47
1:B:117:ALA:HA	1:B:222:PRO:CG	2.44	0.47
1:B:184:TYR:CA	1:B:187:VAL:HG22	2.31	0.47
1:B:361:TYR:O	1:B:440:GLY:C	2.53	0.47
1:B:383:ASN:O	1:B:385:ARG:CG	2.63	0.47
1:B:575:ILE:HB	1:B:576:HIS:C	2.34	0.47
1:B:702:MET:HE2	1:B:702:MET:CA	2.44	0.47
1:B:725:ILE:HA	1:B:728:GLY:H	1.79	0.47
1:A:288:LEU:C	1:A:290:LEU:N	2.67	0.47
1:A:479:LEU:HB3	1:A:483:MET:CE	2.44	0.47
1:B:42:ARG:N	1:B:43:THR:CB	2.77	0.47
1:B:63:PRO:HB2	1:B:196:ARG:HD2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:106:LEU:CD1	1:B:154:VAL:CG1	2.90	0.47
1:B:180:TYR:HH	1:B:492:HIS:CG	2.12	0.47
1:B:384:GLN:C	1:B:385:ARG:HG2	2.35	0.47
1:B:452:ASP:C	1:B:453:ARG:HH11	2.16	0.47
1:B:594:SER:CB	1:B:603:THR:HA	2.44	0.47
1:B:705:ARG:CA	1:B:708:ILE:HG13	2.45	0.47
1:A:24:GLU:OE2	1:A:508:GLY:CA	2.62	0.47
1:A:173:ARG:HG2	1:A:579:PRO:CA	2.44	0.47
1:A:294:TYR:C	1:A:294:TYR:CD1	2.88	0.47
1:A:333:LEU:HD13	1:A:334:ARG:N	2.30	0.47
1:A:413:PHE:CZ	1:A:639:TRP:CH2	2.84	0.47
1:A:527:ARG:HH12	1:A:528:ILE:HD11	1.76	0.47
1:B:83:ASP:HA	1:B:191:ARG:CD	2.43	0.47
1:B:114:SER:HB3	1:B:223:ALA:HB2	1.96	0.47
1:B:153:PHE:CZ	1:B:202:LEU:CB	2.84	0.47
1:B:294:TYR:HE2	1:B:516:LEU:CD1	2.27	0.47
1:B:349:ILE:HG23	1:B:421:TYR:HE2	1.80	0.47
1:B:358:VAL:HG21	1:B:438:THR:H	1.75	0.47
1:B:385:ARG:H	1:B:577:ILE:HG21	1.80	0.47
1:B:426:GLN:NE2	1:B:427:ARG:NE	2.62	0.47
1:B:479:LEU:HD12	1:B:483:MET:SD	2.55	0.47
1:B:584:SER:OG	1:B:625:LYS:HE3	2.14	0.47
1:B:733:GLN:CG	1:B:734:MET:HE1	2.43	0.47
1:A:322:ILE:HG22	1:A:325:MET:CE	2.44	0.47
1:A:334:ARG:CG	1:A:338:GLU:OE2	2.62	0.47
1:A:355:PRO:HB3	1:A:529:PRO:HG2	1.96	0.47
1:A:432:SER:O	1:A:433:ASN:HB2	2.14	0.47
1:A:624:LEU:CD1	1:A:626:PRO:CG	2.86	0.47
1:A:713:ASP:O	1:A:714:LEU:HD23	2.13	0.47
1:B:206:ASP:OD1	1:B:210:LEU:HD23	2.14	0.47
1:B:439:LEU:HD23	1:B:439:LEU:O	2.15	0.47
1:B:467:VAL:HG13	1:B:469:GLU:HB2	1.95	0.47
1:B:593:TYR:CE1	1:B:595:VAL:HB	2.49	0.47
1:B:726:TRP:HE3	1:B:726:TRP:O	1.97	0.47
1:B:735:MET:HE3	1:B:737:LEU:HD11	1.89	0.47
1:B:738:LEU:HD22	1:B:738:LEU:N	2.29	0.47
1:A:29:LEU:H	1:A:29:LEU:CD2	2.27	0.47
1:A:60:ASN:CA	1:A:156:HIS:CD2	2.86	0.47
1:A:118:ILE:HG23	1:A:118:ILE:O	2.14	0.47
1:A:128:PRO:CA	1:A:129:THR:HB	2.45	0.47
1:A:170:TYR:CE2	1:A:578:TRP:CZ2	3.01	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:259:ARG:O	1:A:261:TRP:N	2.47	0.47
1:A:265:THR:CG2	1:A:267:LYS:CB	2.92	0.47
1:A:292:ILE:HG21	1:A:295:GLN:HG2	1.86	0.47
1:A:300:GLN:NE2	1:A:300:GLN:N	2.60	0.47
1:A:349:ILE:CD1	1:A:356:SER:HB2	2.44	0.47
1:A:351:HIS:ND1	1:A:427:ARG:HB2	2.29	0.47
1:A:393:ILE:HD13	1:A:393:ILE:H	1.80	0.47
1:A:418:THR:O	1:A:421:TYR:CD1	2.67	0.47
1:A:440:GLY:HA3	1:A:635:MET:HE3	1.95	0.47
1:A:461:ALA:O	1:A:464:THR:CA	2.61	0.47
1:A:510:ALA:HB1	1:A:511:ALA:HA	1.96	0.47
1:A:520:TRP:HE3	1:A:542:THR:O	1.98	0.47
1:A:544:GLU:CB	1:A:545:PRO:CA	2.89	0.47
1:B:14:ARG:O	1:B:15:GLY:C	2.53	0.47
1:B:24:GLU:HB2	1:B:506:HIS:CE1	2.50	0.47
1:B:107:THR:N	1:B:110:ILE:HG13	2.28	0.47
1:B:222:PRO:O	1:B:223:ALA:HB3	2.14	0.47
1:B:267:LYS:HA	1:B:269:LEU:C	2.34	0.47
1:B:294:TYR:CE2	1:B:516:LEU:CD2	2.85	0.47
1:B:350:ASP:CB	1:B:427:ARG:O	2.61	0.47
1:B:370:ILE:HG22	1:B:623:ILE:HD12	1.97	0.47
1:B:448:ASP:CG	1:B:453:ARG:HG3	2.35	0.47
1:B:471:LEU:HD13	1:B:479:LEU:CB	2.45	0.47
1:B:523:ARG:CZ	1:B:523:ARG:CB	2.86	0.47
1:B:583:ALA:N	1:B:584:SER:CA	2.78	0.47
1:B:584:SER:OG	1:B:625:LYS:CE	2.62	0.47
1:A:3:ASN:HD21	1:A:439:LEU:HD21	1.77	0.47
1:A:8:ASP:O	1:A:11:GLY:N	2.48	0.47
1:A:13:ALA:O	1:A:15:GLY:N	2.48	0.47
1:A:51:GLU:N	1:A:564:LYS:HE2	2.29	0.47
1:A:237:PHE:CA	1:A:240:SER:CB	2.85	0.47
1:A:241:ARG:HG3	1:A:242:GLY:H	1.79	0.47
1:A:257:LEU:CG	1:A:261:TRP:CH2	2.98	0.47
1:A:345:GLN:CG	1:A:346:THR:N	2.78	0.47
1:A:453:ARG:O	1:A:454:ASP:HB3	2.14	0.47
1:A:505:GLU:OE2	1:A:507:GLN:CA	2.61	0.47
1:A:544:GLU:CD	1:A:547:GLU:HG3	2.36	0.47
1:A:675:LEU:HD23	1:A:675:LEU:HA	1.73	0.47
1:A:758:MET:SD	1:A:759:VAL:C	2.93	0.47
1:B:142:GLU:CD	1:B:143:HIS:H	2.17	0.47
1:B:205:VAL:CG2	1:B:232:ALA:CB	2.84	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:211:GLN:NE2	1:B:214:PHE:CZ	2.83	0.47
1:B:349:ILE:CD1	1:B:351:HIS:N	2.73	0.47
1:B:519:VAL:HA	1:B:543:PRO:HA	1.97	0.47
1:B:569:ALA:C	1:B:572:THR:HB	2.34	0.47
1:B:617:ARG:CG	1:B:617:ARG:NH1	2.73	0.47
1:A:94:GLN:HE22	1:A:237:PHE:HE1	1.54	0.47
1:A:135:LEU:CD1	1:A:151:THR:HG22	2.23	0.47
1:A:190:VAL:HA	1:A:323:GLU:HB2	1.97	0.47
1:A:232:ALA:C	1:A:236:ALA:N	2.57	0.47
1:A:252:SER:HB2	1:A:308:PHE:HE1	1.80	0.47
1:A:259:ARG:HA	1:A:259:ARG:HD3	1.56	0.47
1:A:347:SER:OG	1:A:554:PRO:HB3	2.15	0.47
1:A:410:VAL:C	1:A:412:ALA:N	2.66	0.47
1:A:458:ALA:C	1:A:460:ALA:H	2.18	0.47
1:B:125:LYS:HA	1:B:128:PRO:CG	2.45	0.47
1:B:309:SER:HB3	1:B:315:SER:OG	2.14	0.47
1:B:312:GLU:HG3	1:B:313:LEU:N	2.27	0.47
1:B:350:ASP:OD2	1:B:430:VAL:N	2.48	0.47
1:B:358:VAL:O	1:B:359:VAL:HB	2.15	0.47
1:B:362:GLU:OE1	1:B:442:PRO:CA	2.63	0.47
1:B:386:PHE:O	1:B:387:LEU:C	2.51	0.47
1:B:400:THR:C	1:B:403:PRO:HD2	2.35	0.47
1:B:472:GLU:CB	1:B:475:ALA:HB3	2.45	0.47
1:B:500:GLU:C	1:B:520:TRP:HB3	2.34	0.47
1:B:583:ALA:N	1:B:584:SER:HA	2.29	0.47
1:B:670:ASN:CG	1:B:674:LEU:HD12	2.34	0.47
1:A:13:ALA:C	1:A:15:GLY:N	2.67	0.47
1:A:21:ALA:O	1:A:299:LYS:CG	2.61	0.47
1:A:27:ASN:ND2	1:A:28:GLN:N	2.63	0.47
1:A:71:PHE:CD2	1:A:329:SER:HB2	2.49	0.47
1:A:209:MET:CG	1:A:210:LEU:N	2.72	0.47
1:A:257:LEU:CD2	1:A:261:TRP:CH2	2.98	0.47
1:A:291:PHE:CG	1:A:292:ILE:N	2.82	0.47
1:A:319:PRO:HD2	1:A:320:TRP:N	2.25	0.47
1:A:338:GLU:O	1:A:339:THR:C	2.50	0.47
1:A:462:LEU:CG	1:A:483:MET:SD	3.02	0.47
1:B:14:ARG:CG	1:B:465:GLY:HA2	2.45	0.47
1:B:61:ILE:HG12	1:B:156:HIS:HA	1.96	0.47
1:B:80:LEU:HG	1:B:84:GLU:CG	2.45	0.47
1:B:119:LYS:HZ1	1:B:217:LYS:HB3	1.74	0.47
1:B:146:PHE:HB2	1:B:150:THR:HG23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:275:LEU:HD12	1:B:312:GLU:O	2.15	0.47
1:B:354:GLN:HA	1:B:355:PRO:HD3	1.64	0.47
1:B:361:TYR:HD1	1:B:361:TYR:C	2.19	0.47
1:B:361:TYR:CB	1:B:414:VAL:CB	2.93	0.47
1:B:361:TYR:HE1	1:B:441:PHE:CE2	2.29	0.47
1:B:437:MET:CE	1:B:550:ALA:CA	2.85	0.47
1:B:609:PHE:HD1	1:B:609:PHE:N	2.13	0.47
1:B:623:ILE:O	1:B:623:ILE:HD13	2.14	0.47
1:B:647:LEU:HD21	1:B:663:ILE:HD13	1.97	0.47
1:B:757:GLY:CA	1:B:758:MET:C	2.83	0.47
1:A:183:PHE:O	1:A:186:LEU:HD13	2.15	0.46
1:A:189:CYS:CA	1:A:323:GLU:HG3	2.44	0.46
1:A:210:LEU:HB3	1:A:224:LEU:HD21	1.96	0.46
1:A:272:SER:N	1:A:276:ARG:NH1	2.63	0.46
1:A:281:ILE:CG1	1:A:282:ASP:N	2.78	0.46
1:A:421:TYR:CD1	1:A:421:TYR:N	2.81	0.46
1:A:573:THR:HG23	1:A:574:SER:N	2.30	0.46
1:A:580:TRP:CD1	1:A:581:HIS:HA	2.47	0.46
1:A:714:LEU:O	1:A:714:LEU:HG	2.13	0.46
1:B:22:ILE:CG2	1:B:517:TYR:CE1	2.91	0.46
1:B:178:ALA:CB	1:B:447:ARG:HH21	2.28	0.46
1:B:199:LEU:O	1:B:202:LEU:N	2.47	0.46
1:B:600:LYS:NZ	1:B:707:LEU:HD21	2.29	0.46
1:A:40:PHE:O	1:A:286:SER:O	2.32	0.46
1:A:183:PHE:HA	1:A:186:LEU:CD1	2.44	0.46
1:A:294:TYR:CZ	1:A:515:SER:N	2.83	0.46
1:A:342:TYR:HD1	1:A:362:GLU:OE2	1.98	0.46
1:A:422:GLU:HG3	1:B:116:ARG:CB	2.46	0.46
1:A:680:MET:O	1:A:683:THR:O	2.33	0.46
1:A:718:ILE:HG22	1:A:722:ARG:HG2	1.97	0.46
1:B:22:ILE:HG12	1:B:517:TYR:CD1	2.50	0.46
1:B:103:TRP:CZ2	1:B:230:ALA:O	2.68	0.46
1:B:156:HIS:CG	1:B:206:ASP:OD1	2.68	0.46
1:B:246:ALA:CA	1:B:249:VAL:HG12	2.44	0.46
1:B:362:GLU:CD	1:B:442:PRO:N	2.68	0.46
1:B:620:ARG:O	1:B:621:VAL:CB	2.62	0.46
1:B:668:MET:CG	1:B:671:ALA:CB	2.93	0.46
1:A:8:ASP:C	1:A:11:GLY:H	2.17	0.46
1:A:24:GLU:CA	1:A:26:LYS:HE2	2.38	0.46
1:A:232:ALA:HA	1:A:235:THR:CG2	2.46	0.46
1:A:268:GLU:CG	1:A:269:LEU:N	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:303:ARG:HG3	1:A:304:ALA:N	2.30	0.46
1:A:455:PRO:CA	1:A:458:ALA:HB3	2.46	0.46
1:A:478:ASP:HA	1:A:481:ARG:HB3	1.96	0.46
1:A:503:VAL:HG11	1:A:517:TYR:C	2.36	0.46
1:A:601:ARG:HA	1:A:601:ARG:NE	2.29	0.46
1:A:627:THR:O	1:A:629:ALA:N	2.49	0.46
1:A:733:GLN:NE2	1:A:733:GLN:CA	2.76	0.46
1:B:102:ILE:HG13	1:B:103:TRP:HZ3	1.79	0.46
1:B:257:LEU:O	1:B:260:LEU:HB3	2.14	0.46
1:B:258:GLY:O	1:B:262:SER:N	2.48	0.46
1:B:269:LEU:C	1:B:271:PRO:HD2	2.34	0.46
1:B:552:ASN:CA	1:B:553:LYS:HZ3	2.28	0.46
1:B:597:ILE:CG1	1:B:713:ASP:O	2.64	0.46
1:B:678:ILE:CD1	1:B:679:GLU:N	2.77	0.46
1:A:40:PHE:HE2	1:A:291:PHE:CB	2.25	0.46
1:A:145:LEU:C	1:A:148:HIS:H	2.19	0.46
1:A:182:ASN:HA	1:A:484:PHE:CD2	2.48	0.46
1:A:197:ARG:C	1:A:199:LEU:H	2.14	0.46
1:A:386:PHE:CE1	1:A:576:HIS:HD2	2.33	0.46
1:A:571:HIS:O	1:A:572:THR:C	2.50	0.46
1:A:695:GLN:O	1:A:699:VAL:HG23	2.15	0.46
1:B:24:GLU:HG3	1:B:28:GLN:HG3	1.97	0.46
1:B:73:TYR:O	1:B:77:GLY:N	2.48	0.46
1:B:176:ARG:HH22	1:B:447:ARG:CA	2.29	0.46
1:B:184:TYR:CA	1:B:187:VAL:CG2	2.85	0.46
1:B:191:ARG:HA	1:B:194:ASP:OD2	2.15	0.46
1:B:262:SER:HB2	1:B:269:LEU:CG	2.46	0.46
1:B:269:LEU:CD1	1:B:271:PRO:CD	2.85	0.46
1:B:368:LYS:CB	1:B:369:GLU:OE1	2.62	0.46
1:B:471:LEU:HB2	1:B:476:SER:CB	2.45	0.46
1:B:604:ALA:HB2	1:B:698:ILE:CG2	2.26	0.46
1:B:668:MET:SD	1:B:671:ALA:CB	2.94	0.46
1:B:694:ALA:N	1:B:697:ARG:HH22	2.13	0.46
1:A:89:PHE:CD2	1:A:146:PHE:CE2	3.03	0.46
1:A:449:TYR:OH	1:A:737:LEU:HD21	2.14	0.46
1:A:517:TYR:O	1:A:517:TYR:CD1	2.69	0.46
1:A:530:VAL:CG2	1:A:551:TYR:HE2	2.28	0.46
1:A:544:GLU:CG	1:A:547:GLU:CG	2.93	0.46
1:A:548:ALA:O	1:A:552:ASN:HB2	1.64	0.46
1:A:606:VAL:C	1:A:607:LYS:NZ	2.69	0.46
1:B:14:ARG:HH12	1:B:17:THR:CG2	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:103:TRP:NE1	1:B:231:ASN:N	2.63	0.46
1:B:211:GLN:O	1:B:214:PHE:CE1	2.67	0.46
1:B:288:LEU:CD1	1:B:495:VAL:HG21	2.45	0.46
1:B:349:ILE:CD1	1:B:351:HIS:CA	2.93	0.46
1:B:600:LYS:HZ1	1:B:707:LEU:HD21	1.80	0.46
1:B:630:HIS:CD2	1:B:738:LEU:HD13	2.51	0.46
1:B:674:LEU:O	1:B:677:LYS:HB2	2.15	0.46
1:A:34:LEU:HD21	1:A:35:GLN:CD	2.35	0.46
1:A:126:VAL:HG22	1:A:166:PRO:HD3	1.96	0.46
1:A:365:GLN:N	1:A:562:GLN:CA	2.65	0.46
1:A:523:ARG:CA	1:A:538:GLY:C	2.81	0.46
1:A:597:ILE:HG12	1:A:602:TYR:CZ	2.46	0.46
1:A:624:LEU:HD12	1:A:626:PRO:HG2	1.95	0.46
1:A:758:MET:SD	1:A:758:MET:C	2.94	0.46
1:B:4:LEU:HD12	1:B:4:LEU:N	2.29	0.46
1:B:42:ARG:CA	1:B:43:THR:HB	2.45	0.46
1:B:61:ILE:O	1:B:62:ASP:HB3	2.16	0.46
1:B:98:CYS:C	1:B:100:PRO:CD	2.84	0.46
1:B:118:ILE:O	1:B:221:ALA:HA	2.15	0.46
1:B:163:PHE:HB3	1:B:164:ILE:HB	1.96	0.46
1:B:251:SER:HA	1:B:301:ARG:HH22	1.80	0.46
1:B:262:SER:HB3	1:B:269:LEU:HG	1.97	0.46
1:B:373:PHE:HE2	1:B:583:ALA:HA	0.83	0.46
1:B:376:VAL:N	1:B:386:PHE:N	2.60	0.46
1:B:448:ASP:HA	1:B:453:ARG:HD3	1.98	0.46
1:B:500:GLU:HB3	1:B:520:TRP:HB3	1.97	0.46
1:B:523:ARG:N	1:B:539:SER:OG	2.48	0.46
1:B:715:HIS:HA	1:B:719:ASN:ND2	2.30	0.46
1:A:81:SER:O	1:A:84:GLU:CA	2.64	0.46
1:A:115:ASN:CG	1:A:116:ARG:N	2.68	0.46
1:A:126:VAL:HG22	1:A:165:LEU:CB	2.31	0.46
1:A:263:PRO:HD2	1:A:516:LEU:HD22	1.98	0.46
1:A:408:PHE:CE1	1:A:636:TRP:CE2	2.96	0.46
1:A:439:LEU:HB2	1:A:441:PHE:HE1	1.80	0.46
1:A:448:ASP:O	1:A:452:ASP:N	2.49	0.46
1:A:520:TRP:CE2	1:A:545:PRO:HG2	2.50	0.46
1:A:540:ILE:HG13	1:A:551:TYR:CE2	2.50	0.46
1:A:669:GLN:CG	1:A:670:ASN:N	2.77	0.46
1:A:729:LEU:HD21	1:A:738:LEU:HD13	1.93	0.46
1:A:744:GLU:O	1:A:747:THR:CG2	2.59	0.46
1:B:14:ARG:HA	1:B:17:THR:HG23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:16:LEU:O	1:B:487:TYR:HE2	1.98	0.46
1:B:118:ILE:HG23	1:B:120:ALA:HB2	1.97	0.46
1:B:132:LEU:CD1	1:B:150:THR:C	2.85	0.46
1:B:209:MET:CG	1:B:225:ILE:HG22	2.44	0.46
1:B:220:LEU:HD23	1:B:224:LEU:CD1	2.37	0.46
1:B:282:ASP:HA	1:B:285:ARG:NE	2.31	0.46
1:B:408:PHE:O	1:B:410:VAL:HG13	2.15	0.46
1:B:592:ALA:CA	1:B:726:TRP:CH2	2.94	0.46
1:B:691:VAL:HA	1:B:723:ILE:HD11	1.96	0.46
1:B:726:TRP:HZ3	1:B:729:LEU:CB	2.29	0.46
1:A:55:GLU:HG3	1:A:170:TYR:H	1.79	0.46
1:A:183:PHE:O	1:A:187:VAL:HG23	2.15	0.46
1:A:234:THR:C	1:A:237:PHE:N	2.68	0.46
1:A:287:ASN:C	1:A:289:ALA:N	2.69	0.46
1:A:349:ILE:HD12	1:A:357:HIS:N	2.21	0.46
1:A:436:GLU:OE1	1:A:439:LEU:HD13	2.14	0.46
1:A:532:TYR:CE1	1:A:543:PRO:CD	2.99	0.46
1:A:615:GLY:HA2	1:A:616:GLN:HA	1.61	0.46
1:A:660:LYS:CG	1:A:661:LEU:N	2.79	0.46
1:A:674:LEU:HA	1:A:677:LYS:HZ1	1.75	0.46
1:A:739:SER:CA	1:A:742:GLU:OE2	2.63	0.46
1:B:33:ALA:O	1:B:35:GLN:OE1	2.34	0.46
1:B:44:PHE:CD2	1:B:333:LEU:CD2	2.98	0.46
1:B:44:PHE:HD1	1:B:333:LEU:HD13	1.73	0.46
1:B:340:THR:O	1:B:342:TYR:CD2	2.67	0.46
1:B:363:ASP:N	1:B:441:PHE:CD2	2.84	0.46
1:B:500:GLU:O	1:B:520:TRP:CG	2.69	0.46
1:B:555:ILE:HA	1:B:556:GLN:NE2	2.31	0.46
1:A:41:THR:HG23	1:A:42:ARG:NH1	2.31	0.46
1:A:75:GLN:CD	1:A:177:THR:OG1	2.51	0.46
1:A:86:VAL:CB	1:A:191:ARG:HD2	2.30	0.46
1:A:201:ALA:O	1:A:204:SER:OG	2.28	0.46
1:A:336:ILE:O	1:A:340:THR:CG2	2.64	0.46
1:A:343:ILE:H	1:A:559:GLU:CD	2.19	0.46
1:A:357:HIS:C	1:A:437:MET:SD	2.94	0.46
1:A:577:ILE:HB	1:A:579:PRO:CD	2.42	0.46
1:A:597:ILE:CG1	1:A:602:TYR:CE1	2.87	0.46
1:A:638:SER:O	1:A:641:VAL:CA	2.64	0.46
1:A:677:LYS:O	1:A:681:ILE:HG12	2.16	0.46
1:A:743:ALA:O	1:A:746:LEU:HB3	2.16	0.46
1:A:747:THR:HG23	1:A:748:LYS:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:29:LEU:CD1	1:B:532:TYR:CZ	2.99	0.46
1:B:132:LEU:HD13	1:B:150:THR:C	2.36	0.46
1:B:361:TYR:HB2	1:B:414:VAL:CG1	2.46	0.46
1:B:368:LYS:N	1:B:368:LYS:CD	2.73	0.46
1:A:169:ALA:O	1:A:170:TYR:CD1	2.68	0.46
1:A:177:THR:HA	1:A:447:ARG:NH1	2.13	0.46
1:A:289:ALA:C	1:A:291:PHE:N	2.45	0.46
1:A:345:GLN:HG2	1:A:556:GLN:CA	2.46	0.46
1:A:350:ASP:O	1:A:353:GLY:HA2	2.16	0.46
1:A:527:ARG:NH1	1:A:528:ILE:N	2.60	0.46
1:A:687:GLY:O	1:A:690:ALA:HB3	2.17	0.46
1:B:46:ALA:HB3	1:B:179:THR:O	2.16	0.46
1:B:66:TYR:HA	1:B:69:LEU:HD23	1.97	0.46
1:B:70:PHE:CD1	1:B:85:LEU:HD21	2.50	0.46
1:B:200:THR:C	1:B:203:SER:H	2.19	0.46
1:B:274:ARG:N	1:B:274:ARG:HD3	2.30	0.46
1:B:391:PRO:HA	1:B:395:ASP:OD2	2.16	0.46
1:B:424:VAL:HG21	1:B:430:VAL:CG1	2.44	0.46
1:B:570:ASN:ND2	1:B:571:HIS:N	2.64	0.46
1:B:592:ALA:C	1:B:726:TRP:CZ2	2.89	0.46
1:B:733:GLN:HG2	1:B:740:ARG:HB2	1.97	0.46
1:A:1:GLY:C	1:A:3:ASN:ND2	2.70	0.45
1:A:34:LEU:O	1:A:502:VAL:HG13	2.16	0.45
1:A:61:ILE:HG13	1:A:152:ASP:HB3	1.97	0.45
1:A:417:ARG:NH1	1:A:417:ARG:HG2	2.31	0.45
1:A:419:ALA:O	1:A:421:TYR:CD1	2.69	0.45
1:A:577:ILE:O	1:A:578:TRP:CD1	2.69	0.45
1:A:719:ASN:HA	1:A:722:ARG:HB2	1.97	0.45
1:B:5:LYS:HA	1:B:435:ALA:HB3	1.96	0.45
1:B:38:LEU:CD2	1:B:501:VAL:CA	2.91	0.45
1:B:153:PHE:HE2	1:B:202:LEU:CB	2.29	0.45
1:B:255:THR:OG1	1:B:259:ARG:NH1	2.49	0.45
1:B:260:LEU:HD21	1:B:285:ARG:HB3	1.95	0.45
1:B:262:SER:CB	1:B:269:LEU:HD21	2.45	0.45
1:B:318:ILE:CD1	1:B:318:ILE:H	2.29	0.45
1:B:322:ILE:HG22	1:B:325:MET:SD	2.56	0.45
1:B:501:VAL:HG11	1:B:518:LEU:HB2	1.91	0.45
1:B:540:ILE:HG23	1:B:551:TYR:HD2	1.81	0.45
1:B:591:ASP:O	1:B:726:TRP:HH2	1.99	0.45
1:B:602:TYR:CE1	1:B:701:GLN:O	2.69	0.45
1:B:707:LEU:CD1	1:B:707:LEU:H	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:747:THR:HA	1:B:750:LEU:HD23	1.98	0.45
1:A:35:GLN:HB3	1:A:263:PRO:CB	2.46	0.45
1:A:36:LEU:O	1:A:502:VAL:HB	2.15	0.45
1:A:222:PRO:CA	1:A:224:LEU:H	2.19	0.45
1:A:237:PHE:O	1:A:237:PHE:CD1	2.70	0.45
1:A:338:GLU:O	1:A:340:THR:N	2.50	0.45
1:A:408:PHE:CD1	1:A:408:PHE:N	2.82	0.45
1:A:478:ASP:O	1:A:481:ARG:HB3	2.16	0.45
1:A:633:ILE:HG13	1:A:634:GLN:N	2.31	0.45
1:B:51:GLU:HB2	1:B:564:LYS:HZ1	1.81	0.45
1:B:75:GLN:NE2	1:B:177:THR:HG21	2.31	0.45
1:B:136:ARG:NH1	1:B:147:HIS:NE2	2.64	0.45
1:B:216:ALA:HB1	1:B:217:LYS:O	2.15	0.45
1:B:313:LEU:HA	1:B:314:SER:HA	1.71	0.45
1:B:332:LYS:CD	1:B:334:ARG:HE	2.29	0.45
1:B:361:TYR:HD2	1:B:414:VAL:CG1	2.28	0.45
1:B:575:ILE:HB	1:B:576:HIS:O	2.16	0.45
1:B:680:MET:O	1:B:683:THR:C	2.55	0.45
1:A:21:ALA:C	1:A:299:LYS:NZ	2.69	0.45
1:A:37:PRO:O	1:A:38:LEU:HB2	2.16	0.45
1:A:135:LEU:O	1:A:137:THR:N	2.49	0.45
1:A:188:ASP:OD1	1:A:188:ASP:N	2.48	0.45
1:A:221:ALA:CB	1:A:225:ILE:H	2.26	0.45
1:A:259:ARG:CA	1:A:266:PRO:HG3	2.47	0.45
1:A:523:ARG:N	1:A:539:SER:OG	2.48	0.45
1:A:523:ARG:HA	1:A:538:GLY:C	2.37	0.45
1:A:546:LEU:O	1:A:550:ALA:N	2.49	0.45
1:A:663:ILE:CG1	1:A:664:ASP:N	2.79	0.45
1:B:75:GLN:C	1:B:77:GLY:H	2.19	0.45
1:B:102:ILE:HG22	1:B:135:LEU:HG	1.99	0.45
1:B:131:ILE:C	1:B:133:GLU:H	2.18	0.45
1:B:322:ILE:O	1:B:326:SER:OG	2.35	0.45
1:B:453:ARG:NH1	1:B:453:ARG:HA	2.32	0.45
1:B:471:LEU:CG	1:B:476:SER:HA	2.44	0.45
1:B:526:LEU:HD23	1:B:527:ARG:N	2.06	0.45
1:B:625:LYS:N	1:B:625:LYS:CE	2.78	0.45
1:A:37:PRO:C	1:A:501:VAL:HG21	2.37	0.45
1:A:38:LEU:O	1:A:518:LEU:HG	2.15	0.45
1:A:75:GLN:HE22	1:A:177:THR:CG2	2.29	0.45
1:A:195:LEU:HD23	1:A:199:LEU:CB	2.46	0.45
1:A:498:ASN:ND2	1:A:498:ASN:C	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:580:TRP:CD1	1:A:580:TRP:C	2.90	0.45
1:A:652:ARG:HG3	1:A:652:ARG:NH1	2.25	0.45
1:A:653:THR:CG2	1:A:655:ARG:CG	2.95	0.45
1:A:685:GLY:CA	1:A:686:ILE:C	2.84	0.45
1:B:36:LEU:N	1:B:36:LEU:CD1	2.73	0.45
1:B:104:ARG:O	1:B:108:ALA:HB2	2.17	0.45
1:B:171:VAL:CB	1:B:575:ILE:HD13	2.46	0.45
1:B:726:TRP:CE3	1:B:726:TRP:O	2.70	0.45
1:A:73:TYR:O	1:A:73:TYR:CD1	2.70	0.45
1:A:126:VAL:O	1:A:166:PRO:CD	2.64	0.45
1:A:327:GLU:OE1	1:A:333:LEU:HG	2.16	0.45
1:A:359:VAL:CG2	1:A:639:TRP:HZ2	2.27	0.45
1:A:384:GLN:H	1:A:384:GLN:HG2	1.63	0.45
1:A:521:ASN:HD22	1:A:539:SER:CB	2.08	0.45
1:A:534:ALA:C	1:A:535:ILE:CG2	2.84	0.45
1:A:655:ARG:H	1:A:656:ASP:CA	2.30	0.45
1:B:115:ASN:CG	1:B:116:ARG:H	2.19	0.45
1:B:122:ALA:O	1:B:164:ILE:HB	2.16	0.45
1:B:126:VAL:O	1:B:129:THR:OG1	2.35	0.45
1:B:215:LYS:H	1:B:220:LEU:HD13	1.75	0.45
1:B:316:THR:O	1:B:320:TRP:CD1	2.70	0.45
1:B:361:TYR:O	1:B:441:PHE:CD1	2.70	0.45
1:B:375:PRO:O	1:B:385:ARG:NH1	2.50	0.45
1:B:415:LYS:C	1:B:415:LYS:CD	2.85	0.45
1:B:707:LEU:HD13	1:B:707:LEU:N	2.31	0.45
1:A:29:LEU:N	1:A:29:LEU:CD2	2.73	0.45
1:A:270:ASP:O	1:A:272:SER:OG	2.35	0.45
1:A:480:LYS:C	1:A:480:LYS:CD	2.85	0.45
1:A:738:LEU:HA	1:A:742:GLU:HG2	1.99	0.45
1:A:758:MET:CE	1:A:759:VAL:C	2.85	0.45
1:B:14:ARG:O	1:B:17:THR:HG23	2.17	0.45
1:B:24:GLU:C	1:B:25:LEU:CG	2.85	0.45
1:B:41:THR:C	1:B:42:ARG:HG3	2.37	0.45
1:B:43:THR:CG2	1:B:289:ALA:N	2.76	0.45
1:B:61:ILE:CG1	1:B:156:HIS:HA	2.47	0.45
1:B:161:LEU:HD13	1:B:161:LEU:N	2.32	0.45
1:B:191:ARG:HA	1:B:191:ARG:CZ	2.46	0.45
1:B:259:ARG:HB3	1:B:269:LEU:HD13	1.98	0.45
1:B:279:ASN:OD1	1:B:279:ASN:N	2.50	0.45
1:B:350:ASP:CG	1:B:429:THR:N	2.70	0.45
1:B:412:ALA:CA	1:B:415:LYS:HB3	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:463:ARG:NH1	1:B:463:ARG:HB2	2.32	0.45
1:B:522:VAL:C	1:B:539:SER:CB	2.85	0.45
1:B:580:TRP:CG	1:B:581:HIS:N	2.85	0.45
1:B:687:GLY:O	1:B:690:ALA:HB3	2.17	0.45
1:B:735:MET:HG3	1:B:737:LEU:HD11	1.97	0.45
1:A:40:PHE:CE2	1:A:291:PHE:N	2.68	0.45
1:A:142:GLU:OE1	1:A:143:HIS:CE1	2.70	0.45
1:A:142:GLU:OE1	1:A:143:HIS:CD2	2.70	0.45
1:A:143:HIS:O	1:A:146:PHE:CE1	2.69	0.45
1:A:213:THR:C	1:A:215:LYS:CB	2.85	0.45
1:A:231:ASN:OD1	1:A:231:ASN:N	2.48	0.45
1:A:272:SER:O	1:A:275:LEU:CA	2.65	0.45
1:A:287:ASN:HD22	1:A:290:LEU:HG	1.81	0.45
1:A:384:GLN:HB3	1:A:578:TRP:CD1	2.49	0.45
1:A:666:ARG:CB	1:A:669:GLN:OE1	2.64	0.45
1:B:125:LYS:CE	1:B:163:PHE:CE1	3.00	0.45
1:B:220:LEU:O	1:B:224:LEU:HD21	2.17	0.45
1:B:243:ASN:ND2	1:B:244:PHE:CB	2.73	0.45
1:B:334:ARG:HG2	1:B:334:ARG:HH11	1.81	0.45
1:B:342:TYR:CD2	1:B:559:GLU:OE2	2.70	0.45
1:B:349:ILE:HD11	1:B:351:HIS:HA	1.99	0.45
1:B:361:TYR:O	1:B:441:PHE:CE1	2.69	0.45
1:B:361:TYR:O	1:B:441:PHE:CE2	2.70	0.45
1:B:494:ALA:O	1:B:520:TRP:CH2	2.69	0.45
1:B:501:VAL:CG1	1:B:520:TRP:NE1	2.77	0.45
1:B:577:ILE:HD12	1:B:578:TRP:H	0.66	0.45
1:B:597:ILE:HB	1:B:714:LEU:CG	2.45	0.45
1:B:634:GLN:O	1:B:637:TYR:HD1	1.99	0.45
1:B:674:LEU:HD13	1:B:749:VAL:CG2	2.44	0.45
1:A:258:GLY:O	1:A:259:ARG:C	2.51	0.45
1:A:401:LEU:HD13	1:A:404:ILE:HB	1.98	0.45
1:A:562:GLN:NE2	1:A:563:ALA:O	2.50	0.45
1:A:589:TYR:CE2	1:A:590:GLU:O	2.70	0.45
1:B:166:PRO:O	1:B:167:ASP:OD1	2.35	0.45
1:B:256:ILE:N	1:B:259:ARG:HH11	2.14	0.45
1:B:289:ALA:C	1:B:292:ILE:HD13	2.35	0.45
1:B:361:TYR:O	1:B:441:PHE:CZ	2.70	0.45
1:B:372:ALA:HB2	1:B:389:VAL:CG2	2.33	0.45
1:B:441:PHE:CD1	1:B:441:PHE:N	2.84	0.45
1:B:448:ASP:CB	1:B:453:ARG:CG	2.94	0.45
1:B:666:ARG:HD2	1:B:669:GLN:NE2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:716:VAL:HB	1:B:718:ILE:N	2.32	0.45
1:A:22:ILE:N	1:A:22:ILE:HD13	2.32	0.45
1:A:40:PHE:CD2	1:A:291:PHE:N	2.84	0.45
1:A:40:PHE:HD1	1:A:42:ARG:H	1.55	0.45
1:A:46:ALA:HB3	1:A:334:ARG:NH2	2.11	0.45
1:A:53:LEU:O	1:A:54:TRP:CD2	2.70	0.45
1:A:144:GLU:C	1:A:145:LEU:CG	2.86	0.45
1:A:161:LEU:O	1:A:163:PHE:CA	2.60	0.45
1:A:297:MET:HE3	1:A:297:MET:HA	1.99	0.45
1:A:365:GLN:HE21	1:A:367:ALA:CA	2.29	0.45
1:A:365:GLN:O	1:A:366:PHE:CD1	2.70	0.45
1:A:540:ILE:O	1:A:542:THR:HB	2.17	0.45
1:B:96:THR:C	1:B:234:THR:HG22	2.36	0.45
1:B:97:ALA:O	1:B:99:ASN:N	2.50	0.45
1:B:118:ILE:CG1	1:B:119:LYS:H	2.22	0.45
1:B:143:HIS:HB3	1:B:145:LEU:CD2	2.44	0.45
1:B:216:ALA:C	1:B:217:LYS:CG	2.85	0.45
1:B:361:TYR:O	1:B:441:PHE:CD2	2.70	0.45
1:B:587:PHE:C	1:B:622:ARG:HD3	2.36	0.45
1:A:131:ILE:O	1:A:134:GLN:HB2	2.16	0.45
1:A:142:GLU:OE1	1:A:143:HIS:CG	2.70	0.45
1:A:180:TYR:CD1	1:A:180:TYR:O	2.70	0.45
1:A:252:SER:HB2	1:A:308:PHE:CE1	2.52	0.45
1:A:254:LEU:O	1:A:255:THR:C	2.56	0.45
1:A:365:GLN:OE1	1:A:366:PHE:CD1	2.70	0.45
1:A:426:GLN:HG3	1:A:426:GLN:O	2.16	0.45
1:A:490:VAL:HG23	1:A:491:MET:HG2	1.98	0.45
1:A:505:GLU:N	1:A:516:LEU:HB3	2.31	0.45
1:A:524:THR:OG1	1:A:538:GLY:O	2.14	0.45
1:A:676:ARG:O	1:A:679:GLU:CG	2.65	0.45
1:A:729:LEU:HD12	1:A:733:GLN:CG	2.14	0.45
1:B:43:THR:N	1:B:334:ARG:HB2	2.31	0.45
1:B:53:LEU:HD13	1:B:568:LEU:HB3	1.98	0.45
1:B:73:TYR:C	1:B:76:ALA:HB3	2.38	0.45
1:B:156:HIS:CB	1:B:206:ASP:CG	2.84	0.45
1:B:171:VAL:HG21	1:B:575:ILE:CD1	2.47	0.45
1:B:173:ARG:HH22	1:B:578:TRP:HZ2	1.65	0.45
1:B:403:PRO:O	1:B:406:ASN:CA	2.64	0.45
1:B:535:ILE:CD1	1:B:540:ILE:C	2.85	0.45
1:B:630:HIS:CE1	1:B:634:GLN:OE1	2.70	0.45
1:A:4:LEU:CG	1:A:436:GLU:HG2	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:44:PHE:CG	1:A:332:LYS:O	2.70	0.44
1:A:59:GLY:O	1:A:156:HIS:HB2	2.15	0.44
1:A:161:LEU:C	1:A:161:LEU:CD1	2.86	0.44
1:A:212:ALA:CB	1:A:221:ALA:N	2.79	0.44
1:A:308:PHE:O	1:A:308:PHE:CD2	2.70	0.44
1:A:364:TRP:CE3	1:A:561:LEU:O	2.70	0.44
1:A:421:TYR:HD1	1:A:421:TYR:N	2.15	0.44
1:A:494:ALA:HB1	1:A:545:PRO:HB2	1.97	0.44
1:A:541:ARG:NE	1:A:541:ARG:N	2.64	0.44
1:A:541:ARG:HD2	1:A:542:THR:N	2.32	0.44
1:A:593:TYR:CD1	1:A:593:TYR:O	2.70	0.44
1:A:597:ILE:CG1	1:A:598:ARG:N	2.79	0.44
1:A:748:LYS:HA	1:A:748:LYS:HE2	1.98	0.44
1:B:36:LEU:HB2	1:B:37:PRO:CD	2.37	0.44
1:B:75:GLN:CD	1:B:177:THR:CB	2.86	0.44
1:B:92:TYR:CE2	1:B:146:PHE:CB	3.00	0.44
1:B:102:ILE:O	1:B:106:LEU:HB2	2.16	0.44
1:B:153:PHE:CE2	1:B:202:LEU:CA	3.00	0.44
1:B:232:ALA:HA	1:B:235:THR:OG1	2.17	0.44
1:B:254:LEU:HB3	1:B:297:MET:HE2	0.78	0.44
1:B:291:PHE:CZ	1:B:503:VAL:HG22	2.53	0.44
1:B:321:PHE:CD1	1:B:321:PHE:C	2.85	0.44
1:B:363:ASP:N	1:B:441:PHE:CB	2.72	0.44
1:B:543:PRO:HG2	1:B:544:GLU:N	2.31	0.44
1:B:583:ALA:CB	1:B:584:SER:C	2.85	0.44
1:B:673:THR:CG2	1:B:677:LYS:NZ	2.73	0.44
1:B:712:SER:OG	1:B:714:LEU:CA	2.65	0.44
1:A:16:LEU:CG	1:A:462:LEU:C	2.86	0.44
1:A:176:ARG:HD2	1:A:446:GLU:CD	2.38	0.44
1:A:182:ASN:OD1	1:A:183:PHE:N	2.50	0.44
1:A:266:PRO:C	1:A:267:LYS:CG	2.85	0.44
1:A:327:GLU:CA	1:A:331:PHE:HZ	2.27	0.44
1:A:345:GLN:CA	1:A:360:VAL:CB	2.96	0.44
1:A:363:ASP:HB3	1:A:561:LEU:O	2.17	0.44
1:A:365:GLN:CG	1:A:367:ALA:CB	2.95	0.44
1:A:386:PHE:CE1	1:A:576:HIS:CG	3.05	0.44
1:A:544:GLU:CB	1:A:545:PRO:C	2.85	0.44
1:B:69:LEU:N	1:B:69:LEU:CD2	2.76	0.44
1:B:145:LEU:N	1:B:145:LEU:CD1	2.72	0.44
1:B:216:ALA:CA	1:B:217:LYS:HB2	2.47	0.44
1:B:229:LEU:C	1:B:229:LEU:CD2	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:275:LEU:CD2	1:B:278:THR:HB	2.47	0.44
1:B:366:PHE:CB	1:B:563:ALA:HB2	2.47	0.44
1:B:370:ILE:CG2	1:B:625:LYS:CB	2.96	0.44
1:B:415:LYS:CD	1:B:416:ASN:N	2.81	0.44
1:B:439:LEU:HD23	1:B:439:LEU:H	1.82	0.44
1:B:442:PRO:O	1:B:445:VAL:HG23	2.17	0.44
1:B:442:PRO:O	1:B:446:GLU:HB3	2.17	0.44
1:B:482:SER:O	1:B:486:TYR:CG	2.71	0.44
1:B:498:ASN:ND2	1:B:500:GLU:H	2.15	0.44
1:B:530:VAL:HG23	1:B:533:ASN:O	2.17	0.44
1:B:552:ASN:C	1:B:553:LYS:CD	2.85	0.44
1:B:594:SER:CB	1:B:603:THR:CA	2.95	0.44
1:B:610:GLU:C	1:B:612:LEU:N	2.51	0.44
1:A:157:VAL:C	1:A:160:PRO:CD	2.85	0.44
1:A:241:ARG:HG3	1:A:242:GLY:N	2.30	0.44
1:A:258:GLY:N	1:A:261:TRP:CE3	2.85	0.44
1:A:333:LEU:O	1:A:334:ARG:HB2	2.18	0.44
1:A:335:PRO:HA	1:A:336:ILE:HD13	2.00	0.44
1:A:357:HIS:HA	1:A:437:MET:HG2	1.98	0.44
1:A:373:PHE:CD1	1:A:373:PHE:O	2.70	0.44
1:A:401:LEU:HA	1:A:404:ILE:HB	1.99	0.44
1:A:605:GLU:HB2	1:A:607:LYS:NZ	2.32	0.44
1:A:651:ARG:CG	1:A:660:LYS:CB	2.95	0.44
1:B:153:PHE:CE2	1:B:202:LEU:O	2.70	0.44
1:B:182:ASN:CB	1:B:484:PHE:CE2	2.96	0.44
1:B:183:PHE:HE1	1:B:250:VAL:CG1	2.12	0.44
1:B:254:LEU:HA	1:B:254:LEU:HD12	1.74	0.44
1:B:275:LEU:CD1	1:B:315:SER:C	2.85	0.44
1:B:459:ILE:O	1:B:462:LEU:HD12	2.17	0.44
1:B:493:TYR:O	1:B:497:HIS:CD2	2.70	0.44
1:B:542:THR:CG2	1:B:547:GLU:CB	2.91	0.44
1:B:583:ALA:CA	1:B:584:SER:C	2.85	0.44
1:B:650:ALA:CA	1:B:653:THR:OG1	2.62	0.44
1:B:675:LEU:C	1:B:675:LEU:CD2	2.85	0.44
1:B:682:GLY:HA2	1:B:731:VAL:HG23	1.99	0.44
1:B:717:GLY:O	1:B:721:HIS:CE1	2.70	0.44
1:B:741:SER:C	1:B:743:ALA:H	2.20	0.44
1:A:4:LEU:HD23	1:A:13:ALA:CB	2.47	0.44
1:A:16:LEU:O	1:A:487:TYR:CE1	2.71	0.44
1:A:37:PRO:CB	1:A:501:VAL:CG2	2.86	0.44
1:A:40:PHE:HB2	1:A:288:LEU:CA	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:131:ILE:CG2	1:A:135:LEU:HD21	2.47	0.44
1:A:222:PRO:N	1:A:224:LEU:H	1.79	0.44
1:A:313:LEU:HA	1:A:315:SER:OG	2.15	0.44
1:A:320:TRP:CE3	1:A:320:TRP:C	2.90	0.44
1:A:413:PHE:CD1	1:A:639:TRP:HB2	2.52	0.44
1:A:479:LEU:N	1:A:479:LEU:CD1	2.73	0.44
1:A:497:HIS:NE2	1:A:549:ILE:HD13	2.33	0.44
1:A:520:TRP:O	1:A:542:THR:CB	2.65	0.44
1:A:522:VAL:CG2	1:A:523:ARG:N	2.71	0.44
1:A:605:GLU:OE1	1:A:697:ARG:HG2	2.18	0.44
1:A:623:ILE:HD13	1:A:623:ILE:HA	1.81	0.44
1:B:45:SER:OG	1:B:46:ALA:N	2.51	0.44
1:B:47:SER:HB3	1:B:332:LYS:CE	2.37	0.44
1:B:104:ARG:HA	1:B:107:THR:OG1	2.16	0.44
1:B:144:GLU:HA	1:B:147:HIS:HB3	1.99	0.44
1:B:156:HIS:CD2	1:B:206:ASP:OD1	2.70	0.44
1:B:172:TYR:CZ	1:B:579:PRO:HD2	2.52	0.44
1:B:348:ALA:HA	1:B:421:TYR:OH	2.17	0.44
1:B:512:GLU:C	1:B:514:GLY:N	2.71	0.44
1:B:598:ARG:HH12	1:B:710:ASP:CG	2.21	0.44
1:B:641:VAL:HG13	1:B:748:LYS:HZ2	1.82	0.44
1:B:672:VAL:CG1	1:B:673:THR:N	2.80	0.44
1:A:6:VAL:O	1:A:9:LEU:HD13	2.17	0.44
1:A:18:GLN:CA	1:A:21:ALA:CB	2.83	0.44
1:A:21:ALA:HA	1:A:487:TYR:CZ	2.53	0.44
1:A:37:PRO:C	1:A:501:VAL:CG2	2.85	0.44
1:A:40:PHE:HB2	1:A:288:LEU:CB	2.48	0.44
1:A:126:VAL:HG23	1:A:131:ILE:HD11	2.00	0.44
1:A:145:LEU:CA	1:A:148:HIS:H	2.31	0.44
1:A:160:PRO:CB	1:A:208:LYS:CD	2.86	0.44
1:A:234:THR:HG22	1:A:237:PHE:HB3	1.97	0.44
1:A:346:THR:CB	1:A:359:VAL:O	2.65	0.44
1:A:372:ALA:CB	1:A:394:SER:OG	2.65	0.44
1:A:718:ILE:C	1:A:720:ARG:N	2.65	0.44
1:B:37:PRO:O	1:B:38:LEU:CD1	2.63	0.44
1:B:52:LEU:CD1	1:B:53:LEU:N	2.79	0.44
1:B:86:VAL:CG1	1:B:191:ARG:HD3	2.47	0.44
1:B:97:ALA:C	1:B:99:ASN:H	2.21	0.44
1:B:215:LYS:O	1:B:216:ALA:HB3	2.18	0.44
1:B:288:LEU:HD13	1:B:495:VAL:CG2	2.48	0.44
1:B:349:ILE:HD12	1:B:349:ILE:C	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:438:THR:HA	1:B:439:LEU:HD22	1.99	0.44
1:A:18:GLN:HB2	1:A:21:ALA:HB2	1.99	0.44
1:A:44:PHE:CD2	1:A:332:LYS:O	2.70	0.44
1:A:86:VAL:O	1:A:90:THR:HG23	2.18	0.44
1:A:104:ARG:NH1	1:A:104:ARG:CB	2.73	0.44
1:A:145:LEU:C	1:A:148:HIS:N	2.70	0.44
1:A:153:PHE:CE1	1:A:202:LEU:O	2.71	0.44
1:A:276:ARG:CZ	1:A:276:ARG:HB2	2.48	0.44
1:A:295:GLN:OE1	1:A:517:TYR:HB3	2.17	0.44
1:A:303:ARG:HD3	1:A:305:GLU:OE2	2.18	0.44
1:A:322:ILE:HG23	1:A:325:MET:H	1.83	0.44
1:A:374:THR:HA	1:A:620:ARG:NH1	2.33	0.44
1:A:413:PHE:HZ	1:A:639:TRP:CZ2	2.13	0.44
1:A:442:PRO:HD2	1:A:443:SER:H	1.76	0.44
1:A:509:VAL:HG23	1:A:510:ALA:N	2.33	0.44
1:A:532:TYR:CD1	1:A:533:ASN:OD1	2.70	0.44
1:A:586:GLU:O	1:A:586:GLU:HG2	2.16	0.44
1:A:612:LEU:O	1:A:614:LEU:N	2.50	0.44
1:A:647:LEU:N	1:A:647:LEU:HD12	2.32	0.44
1:A:698:ILE:HG12	1:A:702:MET:CE	2.44	0.44
1:A:753:SER:N	1:A:754:ASN:C	2.71	0.44
1:B:35:GLN:CG	1:B:502:VAL:CG2	2.92	0.44
1:B:110:ILE:O	1:B:111:THR:OG1	2.35	0.44
1:B:361:TYR:N	1:B:441:PHE:CZ	2.83	0.44
1:B:510:ALA:CB	1:B:511:ALA:C	2.85	0.44
1:B:571:HIS:C	1:B:573:THR:N	2.69	0.44
1:B:583:ALA:H	1:B:584:SER:C	2.20	0.44
1:B:586:GLU:C	1:B:622:ARG:CG	2.85	0.44
1:B:614:LEU:HD12	1:B:615:GLY:N	2.20	0.44
1:B:647:LEU:HB3	1:B:667:ARG:HG3	1.97	0.44
1:B:697:ARG:O	1:B:701:GLN:N	2.45	0.44
1:A:3:ASN:HA	1:A:439:LEU:HD11	1.99	0.44
1:A:24:GLU:HA	1:A:26:LYS:CB	2.48	0.44
1:A:74:ALA:HB2	1:A:85:LEU:CD1	2.47	0.44
1:A:332:LYS:HD2	1:A:339:THR:HG21	2.00	0.44
1:A:344:GLY:C	1:A:361:TYR:N	2.71	0.44
1:A:345:GLN:CB	1:A:556:GLN:CA	2.86	0.44
1:A:608:GLU:CG	1:A:609:PHE:N	2.80	0.44
1:A:641:VAL:O	1:A:642:GLU:C	2.55	0.44
1:B:92:TYR:HE2	1:B:146:PHE:HB2	1.79	0.44
1:B:118:ILE:N	1:B:222:PRO:CD	2.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:210:LEU:O	1:B:214:PHE:CD1	2.71	0.44
1:B:412:ALA:O	1:B:415:LYS:HD3	2.18	0.44
1:B:415:LYS:CE	1:B:415:LYS:C	2.86	0.44
1:B:437:MET:CE	1:B:550:ALA:CB	2.96	0.44
1:B:482:SER:O	1:B:486:TYR:CD1	2.71	0.44
1:B:487:TYR:CD1	1:B:487:TYR:C	2.91	0.44
1:B:497:HIS:CD2	1:B:549:ILE:CG1	2.94	0.44
1:B:577:ILE:HD13	1:B:578:TRP:CE3	2.53	0.44
1:A:212:ALA:HB3	1:A:219:ALA:O	2.18	0.44
1:A:345:GLN:CA	1:A:360:VAL:CG1	2.86	0.44
1:A:566:LEU:CD1	1:A:568:LEU:HD12	2.46	0.44
1:A:712:SER:CB	1:A:713:ASP:HA	2.47	0.44
1:A:748:LYS:C	1:A:748:LYS:CD	2.85	0.44
1:B:43:THR:HG21	1:B:289:ALA:N	2.31	0.44
1:B:153:PHE:CE2	1:B:202:LEU:C	2.91	0.44
1:B:239:ARG:CG	1:B:239:ARG:NH1	2.73	0.44
1:B:275:LEU:HA	1:B:278:THR:OG1	2.18	0.44
1:B:377:LYS:HB3	1:B:385:ARG:CD	2.45	0.44
1:B:401:LEU:C	1:B:404:ILE:CB	2.76	0.44
1:B:417:ARG:CZ	1:B:639:TRP:CD1	2.98	0.44
1:B:471:LEU:HD11	1:B:479:LEU:HD13	1.99	0.44
1:B:636:TRP:O	1:B:640:PHE:CD2	2.70	0.44
1:A:4:LEU:HG	1:A:436:GLU:CB	2.47	0.44
1:A:8:ASP:OD1	1:A:12:SER:N	2.51	0.44
1:A:38:LEU:HA	1:A:501:VAL:HG21	1.99	0.44
1:A:80:LEU:HA	1:A:81:SER:HA	1.23	0.44
1:A:83:ASP:OD1	1:A:87:ASN:ND2	2.51	0.44
1:A:132:LEU:O	1:A:135:LEU:N	2.51	0.44
1:A:147:HIS:O	1:A:151:THR:HG21	2.12	0.44
1:A:209:MET:SD	1:A:210:LEU:HB2	2.58	0.44
1:A:248:ALA:HA	1:A:251:SER:OG	2.17	0.44
1:A:281:ILE:O	1:A:282:ASP:O	2.35	0.44
1:A:306:VAL:O	1:A:308:PHE:CD1	2.70	0.44
1:A:417:ARG:CB	1:A:639:TRP:CE3	2.97	0.44
1:A:448:ASP:CB	1:A:453:ARG:CB	2.79	0.44
1:A:501:VAL:CA	1:A:518:LEU:HD12	2.47	0.44
1:A:522:VAL:C	1:A:539:SER:CB	2.86	0.44
1:A:610:GLU:HG2	1:A:611:LEU:N	2.32	0.44
1:B:38:LEU:CD2	1:B:501:VAL:N	2.72	0.44
1:B:44:PHE:HB2	1:B:333:LEU:HD11	2.00	0.44
1:B:71:PHE:CD2	1:B:328:VAL:O	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:97:ALA:O	1:B:100:PRO:N	2.51	0.44
1:B:372:ALA:C	1:B:373:PHE:CD1	2.89	0.44
1:B:444:VAL:O	1:B:486:TYR:CZ	2.70	0.44
1:B:504:SER:O	1:B:517:TYR:CD1	2.70	0.44
1:B:522:VAL:HG23	1:B:540:ILE:HB	2.00	0.44
1:B:535:ILE:CG2	1:B:538:GLY:C	2.85	0.44
1:B:666:ARG:C	1:B:669:GLN:HG2	2.37	0.44
1:B:712:SER:HB3	1:B:715:HIS:CD2	2.52	0.44
1:B:726:TRP:CA	1:B:726:TRP:HE3	2.30	0.44
1:A:23:GLY:N	1:A:299:LYS:CD	2.80	0.43
1:A:266:PRO:C	1:A:267:LYS:HG3	2.38	0.43
1:A:326:SER:C	1:A:327:GLU:HG3	2.38	0.43
1:A:491:MET:O	1:A:495:VAL:HG23	2.18	0.43
1:A:618:ARG:HB3	1:A:618:ARG:HH11	1.83	0.43
1:B:2:PHE:CE1	1:B:3:ASN:C	2.89	0.43
1:B:29:LEU:N	1:B:29:LEU:CD2	2.73	0.43
1:B:31:VAL:CG1	1:B:32:GLY:N	2.81	0.43
1:B:43:THR:OG1	1:B:287:ASN:HA	2.17	0.43
1:B:66:TYR:O	1:B:70:PHE:N	2.43	0.43
1:B:68:ARG:NH1	1:B:68:ARG:CG	2.73	0.43
1:B:102:ILE:CG2	1:B:138:LEU:HD13	2.47	0.43
1:B:176:ARG:NH2	1:B:447:ARG:CA	2.72	0.43
1:B:260:LEU:CD2	1:B:285:ARG:CB	2.93	0.43
1:B:294:TYR:CZ	1:B:298:VAL:HG21	2.48	0.43
1:B:309:SER:CA	1:B:314:SER:O	2.66	0.43
1:B:414:VAL:O	1:B:418:THR:N	2.51	0.43
1:B:427:ARG:H	1:B:428:GLY:HA3	1.78	0.43
1:B:493:TYR:O	1:B:493:TYR:HD1	1.99	0.43
1:B:517:TYR:C	1:B:518:LEU:HG	2.39	0.43
1:B:522:VAL:CB	1:B:540:ILE:HD12	2.48	0.43
1:B:522:VAL:C	1:B:539:SER:CA	2.86	0.43
1:B:526:LEU:CB	1:B:527:ARG:NH1	2.69	0.43
1:B:619:GLU:HB3	1:B:620:ARG:HG3	1.97	0.43
1:B:668:MET:SD	1:B:668:MET:O	2.76	0.43
1:A:176:ARG:NH2	1:A:446:GLU:HB3	2.31	0.43
1:A:187:VAL:HG11	1:A:247:ASN:HB3	1.99	0.43
1:A:259:ARG:HD2	1:A:266:PRO:CB	2.48	0.43
1:A:345:GLN:CG	1:A:556:GLN:CA	2.96	0.43
1:A:346:THR:HB	1:A:358:VAL:HA	1.96	0.43
1:A:421:TYR:HD1	1:A:422:GLU:N	2.00	0.43
1:A:498:ASN:CG	1:A:522:VAL:CB	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:578:TRP:N	1:A:579:PRO:CD	2.81	0.43
1:A:589:TYR:CE2	1:A:591:ASP:CG	2.91	0.43
1:A:667:ARG:HH11	1:A:667:ARG:HG3	1.83	0.43
1:A:723:ILE:C	1:A:723:ILE:CD1	2.85	0.43
1:B:8:ASP:OD1	1:B:9:LEU:O	2.35	0.43
1:B:99:ASN:C	1:B:101:GLU:H	2.22	0.43
1:B:125:LYS:C	1:B:128:PRO:HD3	2.37	0.43
1:B:173:ARG:HD2	1:B:174:VAL:C	2.38	0.43
1:B:183:PHE:O	1:B:186:LEU:HB2	2.18	0.43
1:B:505:GLU:CB	1:B:506:HIS:C	2.87	0.43
1:B:598:ARG:NH1	1:B:710:ASP:CG	2.72	0.43
1:B:702:MET:HE1	1:B:714:LEU:HG	1.99	0.43
1:A:24:GLU:CD	1:A:26:LYS:HG2	2.37	0.43
1:A:55:GLU:CA	1:A:170:TYR:O	2.65	0.43
1:A:56:VAL:CG2	1:A:69:LEU:CD1	2.96	0.43
1:A:144:GLU:O	1:A:146:PHE:CD1	2.70	0.43
1:A:314:SER:CA	1:A:315:SER:HB3	2.48	0.43
1:A:320:TRP:C	1:A:320:TRP:CD2	2.92	0.43
1:A:334:ARG:CG	1:A:335:PRO:CD	2.91	0.43
1:A:343:ILE:HA	1:A:343:ILE:HD12	1.64	0.43
1:A:356:SER:C	1:A:437:MET:CE	2.87	0.43
1:A:417:ARG:HG2	1:A:642:GLU:OE1	2.18	0.43
1:A:549:ILE:CD1	1:A:552:ASN:HD21	2.11	0.43
1:A:609:PHE:CD2	1:A:616:GLN:O	2.70	0.43
1:A:695:GLN:NE2	1:A:695:GLN:CA	2.77	0.43
1:A:757:GLY:CA	1:A:758:MET:C	2.87	0.43
1:B:8:ASP:CG	1:B:10:ASN:N	2.72	0.43
1:B:23:GLY:HA2	1:B:299:LYS:CE	2.48	0.43
1:B:42:ARG:HH12	1:B:339:THR:H	1.66	0.43
1:B:119:LYS:HB3	1:B:119:LYS:HE2	1.68	0.43
1:B:258:GLY:HA3	1:B:294:TYR:CZ	2.53	0.43
1:B:384:GLN:CA	1:B:577:ILE:CG2	2.87	0.43
1:B:533:ASN:CB	1:B:535:ILE:HD12	2.48	0.43
1:A:4:LEU:C	1:A:4:LEU:HD12	2.39	0.43
1:A:183:PHE:N	1:A:183:PHE:CD1	2.83	0.43
1:A:213:THR:CB	1:A:215:LYS:CD	2.86	0.43
1:A:297:MET:CE	1:A:297:MET:HA	2.47	0.43
1:A:334:ARG:NH1	1:A:334:ARG:CG	2.79	0.43
1:A:349:ILE:CD1	1:A:356:SER:N	2.72	0.43
1:A:556:GLN:HE21	1:A:556:GLN:CA	2.20	0.43
1:A:581:HIS:CE1	1:A:622:ARG:HH21	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:716:VAL:O	1:A:719:ASN:OD1	2.37	0.43
1:B:24:GLU:C	1:B:25:LEU:CD1	2.85	0.43
1:B:43:THR:CG2	1:B:287:ASN:CG	2.86	0.43
1:B:102:ILE:HG23	1:B:138:LEU:HD13	1.99	0.43
1:B:259:ARG:HG3	1:B:269:LEU:CG	2.48	0.43
1:B:439:LEU:N	1:B:439:LEU:HD23	2.34	0.43
1:B:467:VAL:CG2	1:B:468:ASP:N	2.81	0.43
1:B:568:LEU:O	1:B:569:ALA:C	2.56	0.43
1:B:596:THR:HG22	1:B:601:ARG:CD	2.48	0.43
1:B:668:MET:CA	1:B:671:ALA:H	2.31	0.43
1:B:747:THR:HG1	1:B:748:LYS:N	2.17	0.43
1:A:31:VAL:N	1:A:506:HIS:CE1	2.78	0.43
1:A:64:VAL:O	1:A:64:VAL:HG12	2.19	0.43
1:A:109:TYR:C	1:A:110:ILE:CD1	2.86	0.43
1:A:210:LEU:CB	1:A:212:ALA:O	2.66	0.43
1:A:340:THR:HG1	1:A:341:SER:N	2.17	0.43
1:A:410:VAL:HG13	1:A:411:SER:CA	2.46	0.43
1:A:420:VAL:CG1	1:A:643:ASP:OD2	2.66	0.43
1:A:486:TYR:HD1	1:A:486:TYR:HA	1.72	0.43
1:A:648:ALA:C	1:A:652:ARG:NH1	2.72	0.43
1:B:39:GLN:C	1:B:40:PHE:CD1	2.92	0.43
1:B:127:PRO:C	1:B:128:PRO:HA	2.36	0.43
1:B:255:THR:HG1	1:B:256:ILE:H	1.65	0.43
1:B:519:VAL:HG12	1:B:543:PRO:HA	1.96	0.43
1:B:578:TRP:CE2	1:B:580:TRP:HA	2.53	0.43
1:B:635:MET:HG2	1:B:635:MET:H	1.55	0.43
1:B:702:MET:SD	1:B:714:LEU:HG	2.58	0.43
1:A:5:LYS:O	1:A:8:ASP:N	2.51	0.43
1:A:210:LEU:C	1:A:212:ALA:HA	2.39	0.43
1:A:343:ILE:CA	1:A:362:GLU:CD	2.87	0.43
1:A:350:ASP:C	1:A:353:GLY:CA	2.87	0.43
1:A:420:VAL:CB	1:A:643:ASP:OD2	2.67	0.43
1:A:747:THR:C	1:A:750:LEU:HG	2.38	0.43
1:B:14:ARG:C	1:B:16:LEU:N	2.70	0.43
1:B:38:LEU:CD1	1:B:502:VAL:N	2.71	0.43
1:B:124:GLY:O	1:B:128:PRO:HG3	2.18	0.43
1:B:173:ARG:NH2	1:B:578:TRP:CZ2	2.87	0.43
1:B:256:ILE:O	1:B:259:ARG:HB2	2.18	0.43
1:B:301:ARG:HD2	1:B:304:ALA:HB2	2.01	0.43
1:B:343:ILE:HD12	1:B:497:HIS:HE1	1.82	0.43
1:B:578:TRP:NE1	1:B:580:TRP:HA	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:602:TYR:CA	1:B:701:GLN:NE2	2.80	0.43
1:B:625:LYS:O	1:B:626:PRO:C	2.56	0.43
1:B:666:ARG:CG	1:B:669:GLN:NE2	2.81	0.43
1:B:757:GLY:C	1:B:759:VAL:H	2.22	0.43
1:A:82:VAL:O	1:A:85:LEU:CB	2.66	0.43
1:A:179:THR:O	1:A:332:LYS:HD3	2.18	0.43
1:A:187:VAL:HA	1:A:246:ALA:O	2.19	0.43
1:A:200:THR:O	1:A:203:SER:CA	2.67	0.43
1:A:241:ARG:HG3	1:A:243:ASN:OD1	2.19	0.43
1:A:438:THR:N	1:A:439:LEU:HD22	2.34	0.43
1:A:459:ILE:O	1:A:462:LEU:CA	2.67	0.43
1:A:461:ALA:C	1:A:464:THR:N	2.66	0.43
1:A:528:ILE:HD13	1:A:528:ILE:O	2.18	0.43
1:A:605:GLU:CB	1:A:607:LYS:NZ	2.81	0.43
1:A:639:TRP:CD1	1:A:642:GLU:HB2	2.54	0.43
1:A:735:MET:SD	1:A:736:GLY:C	2.94	0.43
1:B:61:ILE:HD11	1:B:156:HIS:O	2.18	0.43
1:B:96:THR:OG1	1:B:237:PHE:CE2	2.67	0.43
1:B:117:ALA:HA	1:B:222:PRO:HG3	2.01	0.43
1:B:192:ALA:HB1	1:B:328:VAL:HG21	2.01	0.43
1:B:200:THR:HA	1:B:203:SER:OG	2.18	0.43
1:B:202:LEU:CD1	1:B:236:ALA:CB	2.85	0.43
1:B:236:ALA:C	1:B:239:ARG:HB2	2.38	0.43
1:B:255:THR:OG1	1:B:256:ILE:N	2.52	0.43
1:B:349:ILE:C	1:B:351:HIS:H	2.21	0.43
1:B:384:GLN:HA	1:B:577:ILE:HG21	1.94	0.43
1:B:712:SER:OG	1:B:714:LEU:CB	2.66	0.43
1:B:742:GLU:O	1:B:743:ALA:C	2.57	0.43
1:A:64:VAL:HG22	1:A:200:THR:CB	2.48	0.43
1:A:92:TYR:CZ	1:A:146:PHE:HB2	2.54	0.43
1:A:127:PRO:HD2	1:A:130:ALA:C	2.39	0.43
1:A:169:ALA:HB3	1:A:575:ILE:HB	2.00	0.43
1:A:343:ILE:O	1:A:362:GLU:HG3	2.19	0.43
1:A:359:VAL:CG2	1:A:437:MET:O	2.66	0.43
1:A:502:VAL:CA	1:A:503:VAL:HB	2.47	0.43
1:A:596:THR:C	1:A:597:ILE:CG2	2.87	0.43
1:A:718:ILE:CA	1:A:721:HIS:H	2.30	0.43
1:A:754:ASN:CG	1:A:756:LEU:HB2	2.39	0.43
1:B:94:GLN:C	1:B:96:THR:N	2.72	0.43
1:B:118:ILE:O	1:B:222:PRO:CG	2.67	0.43
1:B:260:LEU:CD1	1:B:260:LEU:C	2.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:283:GLN:CD	1:B:284:LEU:N	2.72	0.43
1:B:527:ARG:NH1	1:B:527:ARG:N	2.67	0.43
1:B:716:VAL:HG12	1:B:717:GLY:H	1.84	0.43
1:B:738:LEU:CD2	1:B:738:LEU:N	2.81	0.43
1:A:2:PHE:CZ	1:A:486:TYR:OH	2.70	0.43
1:A:3:ASN:HB3	1:A:4:LEU:H	1.71	0.43
1:A:126:VAL:CG2	1:A:165:LEU:CA	2.93	0.43
1:A:182:ASN:OD1	1:A:183:PHE:CD1	2.71	0.43
1:A:275:LEU:C	1:A:276:ARG:HG3	2.39	0.43
1:A:342:TYR:CD1	1:A:362:GLU:OE1	2.70	0.43
1:A:345:GLN:HA	1:A:345:GLN:NE2	2.34	0.43
1:A:352:MET:H	1:A:352:MET:HG2	1.58	0.43
1:A:636:TRP:HZ3	1:A:640:PHE:CD2	2.11	0.43
1:B:38:LEU:CD1	1:B:501:VAL:C	2.85	0.43
1:B:66:TYR:CD1	1:B:66:TYR:N	2.84	0.43
1:B:232:ALA:C	1:B:239:ARG:NH2	2.70	0.43
1:B:282:ASP:CB	1:B:285:ARG:NH2	2.80	0.43
1:B:336:ILE:C	1:B:337:ASN:N	2.72	0.43
1:B:361:TYR:O	1:B:440:GLY:O	2.37	0.43
1:B:491:MET:HA	1:B:491:MET:HE2	1.95	0.43
1:A:38:LEU:H	1:A:518:LEU:HD11	1.83	0.43
1:A:40:PHE:CE2	1:A:291:PHE:HB3	2.50	0.43
1:A:61:ILE:HB	1:A:156:HIS:HD2	1.62	0.43
1:A:99:ASN:ND2	1:A:102:ILE:HG13	2.34	0.43
1:A:110:ILE:C	1:A:112:GLY:N	2.30	0.43
1:A:248:ALA:C	1:A:251:SER:OG	2.55	0.43
1:A:343:ILE:CA	1:A:362:GLU:OE1	2.66	0.43
1:A:357:HIS:C	1:A:358:VAL:N	2.72	0.43
1:A:363:ASP:O	1:A:364:TRP:CE2	2.72	0.43
1:A:381:ASN:C	1:A:381:ASN:ND2	2.73	0.43
1:A:439:LEU:CA	1:A:441:PHE:CE1	3.02	0.43
1:A:520:TRP:CE3	1:A:545:PRO:CD	3.02	0.43
1:A:583:ALA:CA	1:A:625:LYS:NZ	2.81	0.43
1:A:597:ILE:HD13	1:A:598:ARG:CD	2.37	0.43
1:A:653:THR:CG2	1:A:655:ARG:CD	2.96	0.43
1:A:738:LEU:HB3	1:A:742:GLU:HG2	1.63	0.43
1:B:71:PHE:HD1	1:B:71:PHE:O	2.02	0.43
1:B:83:ASP:HB2	1:B:188:ASP:OD1	2.19	0.43
1:B:128:PRO:O	1:B:131:ILE:HG22	2.18	0.43
1:B:173:ARG:HH12	1:B:578:TRP:HZ2	1.67	0.43
1:B:176:ARG:NH1	1:B:446:GLU:CG	2.73	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:199:LEU:O	1:B:202:LEU:HB3	2.08	0.43
1:B:226:SER:C	1:B:229:LEU:N	2.73	0.43
1:B:341:SER:O	1:B:342:TYR:HB3	2.17	0.43
1:B:507:GLN:CD	1:B:508:GLY:N	2.73	0.43
1:B:600:LYS:O	1:B:602:TYR:CE1	2.71	0.43
1:B:703:ALA:N	1:B:708:ILE:HD13	2.34	0.43
1:B:715:HIS:CB	1:B:720:ARG:NH2	2.82	0.43
1:A:3:ASN:ND2	1:A:439:LEU:CD1	2.73	0.42
1:A:81:SER:OG	1:A:82:VAL:HG23	2.19	0.42
1:A:108:ALA:C	1:A:112:GLY:O	2.57	0.42
1:A:119:LYS:C	1:A:219:ALA:CA	2.85	0.42
1:A:161:LEU:HB2	1:A:208:LYS:NZ	2.33	0.42
1:A:294:TYR:OH	1:A:516:LEU:CG	2.66	0.42
1:A:402:ALA:HB3	1:A:403:PRO:CD	2.49	0.42
1:A:490:VAL:HG23	1:A:491:MET:CG	2.49	0.42
1:A:553:LYS:HG3	1:A:554:PRO:N	2.34	0.42
1:A:639:TRP:HD1	1:A:642:GLU:HB2	1.84	0.42
1:B:41:THR:O	1:B:336:ILE:HG22	2.19	0.42
1:B:105:LYS:C	1:B:108:ALA:HB3	2.40	0.42
1:B:159:SER:OG	1:B:163:PHE:CD1	2.72	0.42
1:B:257:LEU:HD21	1:B:291:PHE:CA	2.49	0.42
1:B:401:LEU:HD23	1:B:404:ILE:HD11	1.98	0.42
1:B:505:GLU:HA	1:B:506:HIS:C	2.40	0.42
1:B:712:SER:OG	1:B:715:HIS:CG	2.70	0.42
1:A:44:PHE:C	1:A:334:ARG:N	2.72	0.42
1:A:176:ARG:HD2	1:A:446:GLU:OE2	2.19	0.42
1:A:224:LEU:HD12	1:A:224:LEU:C	2.37	0.42
1:A:505:GLU:HA	1:A:516:LEU:CB	2.49	0.42
1:A:528:ILE:HB	1:A:530:VAL:HG12	2.00	0.42
1:A:544:GLU:OE1	1:A:546:LEU:CA	2.66	0.42
1:A:598:ARG:O	1:A:599:ASN:CB	2.64	0.42
1:A:611:LEU:HD12	1:A:611:LEU:HA	1.81	0.42
1:A:653:THR:O	1:A:655:ARG:NE	2.51	0.42
1:B:14:ARG:CZ	1:B:14:ARG:HB3	2.48	0.42
1:B:70:PHE:CA	1:B:85:LEU:CD1	2.90	0.42
1:B:105:LYS:HA	1:B:105:LYS:HZ2	1.84	0.42
1:B:317:ILE:CB	1:B:320:TRP:CE2	3.02	0.42
1:B:673:THR:HA	1:B:677:LYS:HZ1	1.84	0.42
1:A:144:GLU:CD	1:A:144:GLU:N	2.73	0.42
1:A:179:THR:O	1:A:332:LYS:CD	2.66	0.42
1:A:241:ARG:HD2	1:A:243:ASN:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:298:VAL:CG2	1:A:514:GLY:O	2.67	0.42
1:A:337:ASN:O	1:A:340:THR:N	2.53	0.42
1:A:444:VAL:C	1:A:446:GLU:H	2.20	0.42
1:A:542:THR:C	1:A:544:GLU:N	2.73	0.42
1:B:41:THR:O	1:B:42:ARG:NE	2.53	0.42
1:B:102:ILE:HG12	1:B:135:LEU:HD21	2.01	0.42
1:B:119:LYS:HB2	1:B:219:ALA:CB	2.35	0.42
1:B:228:HIS:O	1:B:230:ALA:N	2.53	0.42
1:B:244:PHE:CD1	1:B:318:ILE:HG23	2.51	0.42
1:B:408:PHE:HA	1:B:413:PHE:HE2	1.83	0.42
1:B:504:SER:N	1:B:517:TYR:H	2.16	0.42
1:B:618:ARG:HH22	1:B:620:ARG:N	2.17	0.42
1:B:628:VAL:O	1:B:632:ILE:N	2.52	0.42
1:A:154:VAL:O	1:A:158:LEU:CB	2.67	0.42
1:A:221:ALA:O	1:A:222:PRO:O	2.37	0.42
1:A:265:THR:CB	1:A:267:LYS:N	2.74	0.42
1:A:309:SER:O	1:A:313:LEU:HB2	2.19	0.42
1:A:439:LEU:HA	1:A:441:PHE:CE1	2.55	0.42
1:A:641:VAL:O	1:A:644:ASP:CG	2.58	0.42
1:A:753:SER:N	1:A:754:ASN:CA	2.82	0.42
1:B:75:GLN:CD	1:B:177:THR:HG21	2.40	0.42
1:B:132:LEU:HD13	1:B:151:THR:N	2.34	0.42
1:B:160:PRO:HG2	1:B:161:LEU:H	1.83	0.42
1:B:196:ARG:NE	1:B:196:ARG:C	2.73	0.42
1:B:226:SER:C	1:B:229:LEU:H	2.23	0.42
1:B:233:ALA:C	1:B:236:ALA:HB3	2.39	0.42
1:B:449:TYR:HB2	1:B:634:GLN:OE1	2.16	0.42
1:B:604:ALA:O	1:B:605:GLU:HB3	2.19	0.42
1:B:639:TRP:CD1	1:B:639:TRP:O	2.72	0.42
1:A:16:LEU:CG	1:A:462:LEU:O	2.66	0.42
1:A:101:GLU:CD	1:A:101:GLU:N	2.73	0.42
1:A:193:SER:HA	1:A:196:ARG:CG	2.49	0.42
1:A:345:GLN:CA	1:A:360:VAL:HB	2.49	0.42
1:A:448:ASP:HB2	1:A:455:PRO:CB	2.49	0.42
1:A:476:SER:O	1:A:480:LYS:N	2.41	0.42
1:A:533:ASN:N	1:A:533:ASN:OD1	2.33	0.42
1:B:42:ARG:NH1	1:B:337:ASN:C	2.73	0.42
1:B:51:GLU:CD	1:B:564:LYS:HB3	2.40	0.42
1:B:85:LEU:C	1:B:85:LEU:CD2	2.85	0.42
1:B:92:TYR:CD2	1:B:146:PHE:HB2	2.54	0.42
1:B:253:VAL:HA	1:B:256:ILE:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:275:LEU:CD2	1:B:278:THR:CB	2.91	0.42
1:B:491:MET:O	1:B:494:ALA:N	2.52	0.42
1:B:492:HIS:CB	1:B:495:VAL:HB	2.49	0.42
1:B:645:ARG:HG3	1:B:646:THR:N	2.34	0.42
1:B:656:ASP:OD2	1:B:658:ALA:HB3	2.20	0.42
1:B:691:VAL:HG11	1:B:724:ARG:NH2	2.34	0.42
1:B:702:MET:O	1:B:708:ILE:HD13	2.20	0.42
1:A:44:PHE:HB2	1:A:333:LEU:C	2.36	0.42
1:A:54:TRP:CE3	1:A:54:TRP:N	2.88	0.42
1:A:347:SER:HB2	1:A:554:PRO:CB	2.43	0.42
1:A:457:VAL:HG13	1:A:458:ALA:N	2.34	0.42
1:A:612:LEU:N	1:A:612:LEU:HD22	2.34	0.42
1:A:729:LEU:CD1	1:A:729:LEU:C	2.85	0.42
1:B:149:ILE:C	1:B:151:THR:N	2.73	0.42
1:B:214:PHE:O	1:B:214:PHE:CG	2.71	0.42
1:B:247:ASN:CG	1:B:248:ALA:N	2.72	0.42
1:B:314:SER:CA	1:B:316:THR:N	2.73	0.42
1:B:317:ILE:C	1:B:319:PRO:CD	2.88	0.42
1:B:360:VAL:HG22	1:B:439:LEU:N	2.35	0.42
1:B:401:LEU:CG	1:B:404:ILE:HD12	2.47	0.42
1:B:456:MET:N	1:B:459:ILE:HD12	2.34	0.42
1:B:504:SER:HB2	1:B:517:TYR:O	2.20	0.42
1:A:26:LYS:HD3	1:A:26:LYS:HA	1.67	0.42
1:A:39:GLN:N	1:A:501:VAL:HG11	2.35	0.42
1:A:105:LYS:O	1:A:109:TYR:HB2	2.19	0.42
1:A:131:ILE:HG22	1:A:135:LEU:CG	2.49	0.42
1:A:157:VAL:O	1:A:157:VAL:HG12	2.18	0.42
1:A:303:ARG:NH1	1:A:513:GLN:CB	2.83	0.42
1:A:305:GLU:O	1:A:306:VAL:C	2.58	0.42
1:A:313:LEU:HD13	1:A:313:LEU:N	2.33	0.42
1:A:384:GLN:OE1	1:A:578:TRP:CZ2	2.72	0.42
1:A:470:SER:O	1:A:470:SER:OG	2.31	0.42
1:A:476:SER:HA	1:A:479:LEU:H	1.83	0.42
1:A:493:TYR:CZ	1:A:549:ILE:HB	2.54	0.42
1:A:541:ARG:CD	1:A:543:PRO:CD	2.98	0.42
1:A:553:LYS:HD3	1:A:554:PRO:HD2	2.00	0.42
1:B:42:ARG:NH1	1:B:42:ARG:CB	2.82	0.42
1:B:288:LEU:CD2	1:B:495:VAL:CG2	2.83	0.42
1:B:510:ALA:CB	1:B:511:ALA:CA	2.89	0.42
1:B:532:TYR:N	1:B:532:TYR:HD1	2.17	0.42
1:B:661:LEU:HD23	1:B:662:ALA:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:703:ALA:HA	1:B:709:ASP:HA	2.01	0.42
1:B:733:GLN:NE2	1:B:739:SER:C	2.73	0.42
1:A:37:PRO:HB3	1:A:501:VAL:HG23	1.94	0.42
1:A:39:GLN:H	1:A:39:GLN:CD	2.23	0.42
1:A:170:TYR:CA	1:A:576:HIS:HE1	2.29	0.42
1:A:221:ALA:C	1:A:224:LEU:N	2.72	0.42
1:A:322:ILE:HG23	1:A:325:MET:HB2	2.02	0.42
1:A:343:ILE:N	1:A:362:GLU:CD	2.73	0.42
1:A:361:TYR:O	1:A:362:GLU:HG3	2.18	0.42
1:A:374:THR:HG22	1:A:620:ARG:NH2	2.35	0.42
1:A:476:SER:CA	1:A:479:LEU:HD13	2.31	0.42
1:A:540:ILE:CG1	1:A:551:TYR:CZ	2.92	0.42
1:A:655:ARG:HB3	1:A:656:ASP:CG	2.39	0.42
1:B:3:ASN:O	1:B:4:LEU:HD12	2.17	0.42
1:B:24:GLU:HB2	1:B:506:HIS:CD2	2.55	0.42
1:B:82:VAL:C	1:B:84:GLU:N	2.72	0.42
1:B:102:ILE:CG2	1:B:135:LEU:HD11	2.50	0.42
1:B:211:GLN:HA	1:B:214:PHE:CE1	2.53	0.42
1:B:364:TRP:C	1:B:561:LEU:HB2	2.40	0.42
1:B:365:GLN:N	1:B:561:LEU:O	2.53	0.42
1:B:403:PRO:HA	1:B:406:ASN:CG	2.38	0.42
1:B:415:LYS:O	1:B:419:ALA:N	2.53	0.42
1:B:530:VAL:CG2	1:B:533:ASN:O	2.67	0.42
1:B:570:ASN:ND2	1:B:570:ASN:C	2.73	0.42
1:B:618:ARG:NH2	1:B:619:GLU:C	2.72	0.42
1:B:625:LYS:HD2	1:B:625:LYS:C	2.39	0.42
1:A:8:ASP:C	1:A:11:GLY:N	2.73	0.42
1:A:38:LEU:H	1:A:518:LEU:CD1	2.33	0.42
1:A:45:SER:O	1:A:332:LYS:CD	2.68	0.42
1:A:73:TYR:O	1:A:77:GLY:CA	2.67	0.42
1:A:106:LEU:CG	1:A:135:LEU:CD2	2.96	0.42
1:A:142:GLU:CD	1:A:143:HIS:NE2	2.73	0.42
1:A:245:ASP:HB2	1:A:249:VAL:CA	2.50	0.42
1:A:291:PHE:C	1:A:292:ILE:CG1	2.85	0.42
1:A:361:TYR:O	1:A:362:GLU:OE1	2.37	0.42
1:A:485:ASN:HD22	1:A:485:ASN:HA	1.69	0.42
1:A:520:TRP:O	1:A:542:THR:HG22	2.19	0.42
1:A:527:ARG:NH2	1:A:528:ILE:O	2.52	0.42
1:A:541:ARG:CZ	1:A:542:THR:OG1	2.67	0.42
1:A:548:ALA:C	1:A:552:ASN:H	2.17	0.42
1:A:610:GLU:O	1:A:613:GLY:CA	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:620:ARG:NH1	1:A:620:ARG:C	2.73	0.42
1:A:714:LEU:O	1:A:720:ARG:NE	2.52	0.42
1:A:750:LEU:HD12	1:A:750:LEU:C	2.40	0.42
1:B:12:SER:C	1:B:463:ARG:CA	2.88	0.42
1:B:18:GLN:O	1:B:21:ALA:N	2.52	0.42
1:B:75:GLN:C	1:B:77:GLY:N	2.73	0.42
1:B:104:ARG:O	1:B:108:ALA:CB	2.68	0.42
1:B:129:THR:HA	1:B:151:THR:HG21	1.97	0.42
1:B:176:ARG:HH21	1:B:447:ARG:HA	1.75	0.42
1:B:283:GLN:OE1	1:B:284:LEU:N	2.50	0.42
1:B:321:PHE:HD1	1:B:325:MET:CE	2.16	0.42
1:B:322:ILE:HD12	1:B:322:ILE:HA	1.90	0.42
1:B:323:GLU:CD	1:B:324:ALA:N	2.73	0.42
1:B:388:ASP:O	1:B:390:GLU:HG2	2.20	0.42
1:B:481:ARG:C	1:B:485:ASN:ND2	2.73	0.42
1:B:497:HIS:HD2	1:B:549:ILE:CG1	2.32	0.42
1:B:605:GLU:OE1	1:B:605:GLU:HA	2.19	0.42
1:B:633:ILE:HD13	1:B:633:ILE:HA	1.75	0.42
1:B:646:THR:OG1	1:B:647:LEU:N	2.53	0.42
1:B:733:GLN:OE1	1:B:740:ARG:N	2.53	0.42
1:A:146:PHE:O	1:A:150:THR:OG1	2.35	0.42
1:A:169:ALA:O	1:A:576:HIS:CE1	2.72	0.42
1:A:241:ARG:HD2	1:A:243:ASN:OD1	2.19	0.42
1:A:342:TYR:CA	1:A:362:GLU:OE2	2.68	0.42
1:A:393:ILE:CG2	1:A:612:LEU:HD11	2.28	0.42
1:A:466:ILE:O	1:A:467:VAL:O	2.28	0.42
1:A:527:ARG:HA	1:A:527:ARG:HD2	1.88	0.42
1:A:585:THR:HG23	1:A:622:ARG:NH1	2.35	0.42
1:B:3:ASN:N	1:B:3:ASN:OD1	2.46	0.42
1:B:66:TYR:O	1:B:68:ARG:N	2.53	0.42
1:B:94:GLN:HA	1:B:96:THR:HG1	1.83	0.42
1:B:123:VAL:N	1:B:163:PHE:CD2	2.88	0.42
1:B:125:LYS:CA	1:B:165:LEU:HD22	2.50	0.42
1:B:190:VAL:CG2	1:B:246:ALA:HB1	2.50	0.42
1:B:243:ASN:ND2	1:B:243:ASN:C	2.73	0.42
1:B:263:PRO:HD3	1:B:503:VAL:CG1	2.50	0.42
1:B:288:LEU:CD1	1:B:495:VAL:HG22	2.49	0.42
1:B:318:ILE:H	1:B:318:ILE:HD12	1.81	0.42
1:B:408:PHE:CG	1:B:413:PHE:HE2	2.27	0.42
1:B:466:ILE:HD12	1:B:466:ILE:HA	1.79	0.42
1:B:501:VAL:HA	1:B:519:VAL:C	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:571:HIS:O	1:B:572:THR:C	2.58	0.42
1:B:586:GLU:HA	1:B:621:VAL:O	2.20	0.42
1:B:719:ASN:C	1:B:721:HIS:N	2.70	0.42
1:B:754:ASN:C	1:B:756:LEU:N	2.73	0.42
1:A:61:ILE:HG23	1:A:62:ASP:H	1.81	0.41
1:A:200:THR:O	1:A:203:SER:N	2.53	0.41
1:A:342:TYR:HB2	1:A:362:GLU:OE2	2.20	0.41
1:A:359:VAL:HA	1:A:438:THR:OG1	2.19	0.41
1:A:415:LYS:O	1:A:418:THR:OG1	2.38	0.41
1:B:41:THR:C	1:B:42:ARG:CG	2.88	0.41
1:B:82:VAL:HG21	1:B:188:ASP:HB3	2.01	0.41
1:B:99:ASN:C	1:B:101:GLU:N	2.72	0.41
1:B:236:ALA:CA	1:B:239:ARG:HB2	2.50	0.41
1:B:243:ASN:HD22	1:B:244:PHE:N	2.17	0.41
1:B:255:THR:C	1:B:259:ARG:NH1	2.73	0.41
1:B:317:ILE:O	1:B:320:TRP:CB	2.68	0.41
1:B:376:VAL:CB	1:B:386:PHE:N	2.69	0.41
1:B:471:LEU:CB	1:B:476:SER:OG	2.68	0.41
1:B:568:LEU:O	1:B:571:HIS:CA	2.68	0.41
1:B:568:LEU:HD13	1:B:572:THR:OG1	1.97	0.41
1:B:694:ALA:CB	1:B:726:TRP:CD1	3.03	0.41
1:A:61:ILE:HG12	1:A:66:TYR:CZ	2.53	0.41
1:A:132:LEU:HD11	1:A:148:HIS:CD2	2.55	0.41
1:A:254:LEU:HA	1:A:257:LEU:HD12	2.01	0.41
1:A:267:LYS:HB2	1:A:268:GLU:H	1.62	0.41
1:A:374:THR:HB	1:A:620:ARG:NH1	2.33	0.41
1:A:627:THR:O	1:A:628:VAL:C	2.58	0.41
1:A:758:MET:SD	1:A:760:VAL:O	2.78	0.41
1:B:6:VAL:CG1	1:B:7:LYS:H	2.33	0.41
1:B:42:ARG:HA	1:B:43:THR:HB	2.02	0.41
1:B:107:THR:O	1:B:110:ILE:CB	2.67	0.41
1:B:178:ALA:HB2	1:B:447:ARG:NE	2.35	0.41
1:B:187:VAL:CG1	1:B:247:ASN:HA	2.47	0.41
1:B:192:ALA:HB3	1:B:328:VAL:HG21	2.00	0.41
1:B:233:ALA:HA	1:B:236:ALA:CB	2.43	0.41
1:B:587:PHE:C	1:B:622:ARG:CD	2.88	0.41
1:B:697:ARG:CZ	1:B:697:ARG:HB2	2.49	0.41
1:B:705:ARG:CB	1:B:708:ILE:CG1	2.84	0.41
1:A:144:GLU:OE1	1:A:144:GLU:N	2.53	0.41
1:A:148:HIS:CE1	1:A:578:TRP:CZ3	3.02	0.41
1:A:157:VAL:HB	1:A:158:LEU:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:294:TYR:OH	1:A:516:LEU:HD23	2.20	0.41
1:A:345:GLN:CB	1:A:556:GLN:HE21	2.18	0.41
1:A:422:GLU:CG	1:B:116:ARG:HG3	2.48	0.41
1:A:503:VAL:CG1	1:A:504:SER:N	2.79	0.41
1:A:523:ARG:CZ	1:A:524:THR:O	2.61	0.41
1:A:566:LEU:HD12	1:A:567:ASP:C	2.39	0.41
1:B:23:GLY:CA	1:B:299:LYS:CE	2.97	0.41
1:B:163:PHE:CB	1:B:164:ILE:CB	2.94	0.41
1:B:272:SER:O	1:B:276:ARG:CB	2.67	0.41
1:B:394:SER:HA	1:B:397:MET:CE	2.42	0.41
1:B:461:ALA:HB2	1:B:468:ASP:HB2	2.03	0.41
1:B:504:SER:H	1:B:517:TYR:N	2.17	0.41
1:B:612:LEU:HD23	1:B:612:LEU:HA	1.90	0.41
1:A:127:PRO:CD	1:A:130:ALA:C	2.87	0.41
1:A:180:TYR:CG	1:A:331:PHE:HA	2.55	0.41
1:A:294:TYR:CZ	1:A:516:LEU:N	2.88	0.41
1:A:294:TYR:O	1:A:298:VAL:HG12	2.20	0.41
1:A:334:ARG:HD3	1:A:335:PRO:HD2	2.00	0.41
1:A:343:ILE:C	1:A:362:GLU:CD	2.78	0.41
1:A:431:ASN:OD1	1:A:431:ASN:N	2.51	0.41
1:A:458:ALA:C	1:A:460:ALA:N	2.73	0.41
1:A:537:GLY:O	1:A:539:SER:N	2.45	0.41
1:A:549:ILE:C	1:A:552:ASN:H	2.23	0.41
1:A:612:LEU:C	1:A:614:LEU:H	2.24	0.41
1:B:87:ASN:HD22	1:B:88:GLN:H	1.67	0.41
1:B:105:LYS:HD2	1:B:105:LYS:H	1.85	0.41
1:B:122:ALA:O	1:B:164:ILE:CB	2.69	0.41
1:B:282:ASP:HB2	1:B:285:ARG:CZ	2.49	0.41
1:B:477:ASN:O	1:B:481:ARG:HG3	2.20	0.41
1:B:597:ILE:O	1:B:598:ARG:C	2.54	0.41
1:B:661:LEU:C	1:B:661:LEU:CD2	2.86	0.41
1:B:721:HIS:CD2	1:B:757:GLY:HA2	2.41	0.41
1:A:180:TYR:CE2	1:A:185:ALA:HB1	2.56	0.41
1:A:234:THR:O	1:A:237:PHE:C	2.59	0.41
1:A:265:THR:CG2	1:A:267:LYS:CG	2.85	0.41
1:A:278:THR:CB	1:A:281:ILE:HG23	2.51	0.41
1:A:303:ARG:HA	1:A:303:ARG:NE	2.32	0.41
1:A:342:TYR:CB	1:A:362:GLU:OE2	2.68	0.41
1:A:349:ILE:O	1:A:350:ASP:CB	2.60	0.41
1:A:535:ILE:CD1	1:A:539:SER:O	2.69	0.41
1:A:743:ALA:O	1:A:746:LEU:CB	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:56:VAL:CB	1:B:148:HIS:NE2	2.73	0.41
1:B:235:THR:CB	1:B:239:ARG:HH22	2.29	0.41
1:B:316:THR:HB	1:B:317:ILE:HG13	2.02	0.41
1:B:363:ASP:N	1:B:441:PHE:HD2	2.18	0.41
1:B:373:PHE:O	1:B:621:VAL:HG12	2.20	0.41
1:B:702:MET:SD	1:B:711:SER:O	2.78	0.41
1:B:719:ASN:HD21	1:B:720:ARG:CZ	2.33	0.41
1:A:37:PRO:O	1:A:37:PRO:HD2	2.21	0.41
1:A:42:ARG:HH11	1:A:42:ARG:CG	2.34	0.41
1:A:64:VAL:CG1	1:A:196:ARG:NE	2.83	0.41
1:A:128:PRO:CA	1:A:129:THR:CB	2.98	0.41
1:A:410:VAL:C	1:A:412:ALA:H	2.24	0.41
1:A:611:LEU:HD11	1:A:690:ALA:N	2.36	0.41
1:A:677:LYS:HG3	1:A:677:LYS:H	1.63	0.41
1:B:52:LEU:O	1:B:173:ARG:C	2.58	0.41
1:B:69:LEU:O	1:B:72:GLN:N	2.53	0.41
1:B:74:ALA:CB	1:B:82:VAL:HG22	2.51	0.41
1:B:111:THR:C	1:B:113:SER:N	2.74	0.41
1:B:187:VAL:HA	1:B:190:VAL:CG2	2.51	0.41
1:B:190:VAL:HB	1:B:246:ALA:HB1	2.01	0.41
1:B:192:ALA:CB	1:B:328:VAL:CG2	2.98	0.41
1:B:234:THR:O	1:B:237:PHE:HB3	2.21	0.41
1:B:361:TYR:CB	1:B:414:VAL:HB	2.49	0.41
1:B:373:PHE:CB	1:B:622:ARG:O	2.68	0.41
1:B:579:PRO:O	1:B:579:PRO:HG2	2.20	0.41
1:B:593:TYR:HB3	1:B:726:TRP:CE2	2.56	0.41
1:A:18:GLN:CA	1:A:21:ALA:H	2.33	0.41
1:A:145:LEU:C	1:A:147:HIS:N	2.72	0.41
1:A:309:SER:O	1:A:310:ASP:CB	2.69	0.41
1:A:315:SER:HB3	1:A:318:ILE:HB	2.00	0.41
1:A:364:TRP:CE3	1:A:562:GLN:HA	2.53	0.41
1:A:377:LYS:HE2	1:A:378:LEU:CA	2.50	0.41
1:A:401:LEU:HA	1:A:404:ILE:HG12	2.03	0.41
1:A:498:ASN:HD22	1:A:500:GLU:HB2	1.85	0.41
1:A:505:GLU:HB2	1:A:516:LEU:HB3	2.02	0.41
1:A:523:ARG:N	1:A:539:SER:HB2	2.36	0.41
1:A:619:GLU:H	1:A:619:GLU:HG3	1.63	0.41
1:B:103:TRP:CD1	1:B:230:ALA:HB3	2.54	0.41
1:B:114:SER:OG	1:B:222:PRO:CB	2.68	0.41
1:B:183:PHE:O	1:B:184:TYR:C	2.55	0.41
1:B:183:PHE:N	1:B:186:LEU:CD1	2.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:183:PHE:C	1:B:186:LEU:H	2.22	0.41
1:B:205:VAL:O	1:B:209:MET:HB2	2.20	0.41
1:B:600:LYS:NZ	1:B:708:ILE:HG23	2.35	0.41
1:B:606:VAL:HG21	1:B:693:LEU:HD23	2.01	0.41
1:B:630:HIS:C	1:B:634:GLN:NE2	2.72	0.41
1:B:696:SER:HA	1:B:699:VAL:HB	2.01	0.41
1:B:705:ARG:H	1:B:708:ILE:HG12	1.84	0.41
1:A:24:GLU:HG3	1:A:26:LYS:HB2	1.94	0.41
1:A:35:GLN:OE1	1:A:264:SER:HA	2.19	0.41
1:A:64:VAL:HG13	1:A:196:ARG:CA	2.47	0.41
1:A:145:LEU:N	1:A:147:HIS:H	2.19	0.41
1:A:205:VAL:O	1:A:206:ASP:CB	2.69	0.41
1:A:365:GLN:HE21	1:A:367:ALA:N	2.19	0.41
1:A:402:ALA:CB	1:A:403:PRO:HD3	2.50	0.41
1:A:503:VAL:CG1	1:A:517:TYR:O	2.68	0.41
1:A:581:HIS:HE1	1:A:584:SER:O	2.03	0.41
1:A:676:ARG:O	1:A:679:GLU:CB	2.68	0.41
1:A:702:MET:HE3	1:A:702:MET:HB2	1.89	0.41
1:B:3:ASN:HB2	1:B:436:GLU:CD	2.36	0.41
1:B:160:PRO:HG2	1:B:161:LEU:N	2.35	0.41
1:B:195:LEU:HD23	1:B:199:LEU:CD1	2.47	0.41
1:B:234:THR:O	1:B:238:GLU:N	2.48	0.41
1:B:322:ILE:O	1:B:325:MET:SD	2.79	0.41
1:B:350:ASP:HB3	1:B:430:VAL:CG2	2.50	0.41
1:B:451:LEU:CB	1:B:453:ARG:NE	2.84	0.41
1:B:552:ASN:N	1:B:553:LYS:NZ	2.69	0.41
1:B:586:GLU:C	1:B:622:ARG:CD	2.89	0.41
1:B:678:ILE:CG1	1:B:679:GLU:N	2.83	0.41
1:A:51:GLU:HG2	1:A:564:LYS:HG3	2.02	0.41
1:A:128:PRO:HD3	1:A:166:PRO:CA	2.51	0.41
1:A:159:SER:CA	1:A:164:ILE:HA	2.47	0.41
1:A:237:PHE:C	1:A:240:SER:HB3	2.41	0.41
1:A:278:THR:C	1:A:279:ASN:ND2	2.73	0.41
1:A:294:TYR:CE1	1:A:515:SER:N	2.89	0.41
1:A:309:SER:O	1:A:318:ILE:HG13	2.21	0.41
1:A:342:TYR:O	1:A:342:TYR:CG	2.74	0.41
1:A:348:ALA:N	1:A:358:VAL:HG22	2.35	0.41
1:A:349:ILE:CG1	1:A:353:GLY:O	2.69	0.41
1:A:350:ASP:O	1:A:352:MET:N	2.48	0.41
1:A:451:LEU:O	1:A:452:ASP:HB2	2.21	0.41
1:A:455:PRO:O	1:A:458:ALA:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:471:LEU:HD12	1:A:477:ASN:N	2.31	0.41
1:A:520:TRP:CE3	1:A:542:THR:O	2.74	0.41
1:A:523:ARG:HG2	1:A:538:GLY:C	2.42	0.41
1:A:523:ARG:C	1:A:539:SER:CB	2.89	0.41
1:A:600:LYS:NZ	1:A:602:TYR:OH	2.45	0.41
1:A:671:ALA:HB1	1:A:754:ASN:N	2.35	0.41
1:A:714:LEU:O	1:A:720:ARG:CZ	2.69	0.41
1:A:737:LEU:O	1:A:738:LEU:HD23	2.21	0.41
1:A:750:LEU:O	1:A:753:SER:C	2.59	0.41
1:B:6:VAL:HG22	1:B:551:TYR:OH	2.20	0.41
1:B:62:ASP:CG	1:B:63:PRO:CD	2.86	0.41
1:B:119:LYS:HZ2	1:B:218:GLY:N	2.16	0.41
1:B:132:LEU:HD21	1:B:147:HIS:O	2.21	0.41
1:B:165:LEU:HD13	1:B:165:LEU:C	2.41	0.41
1:B:176:ARG:CZ	1:B:446:GLU:CG	2.86	0.41
1:B:200:THR:CG2	1:B:201:ALA:N	2.78	0.41
1:B:262:SER:HB2	1:B:269:LEU:HG	2.03	0.41
1:B:334:ARG:HH11	1:B:334:ARG:CG	2.34	0.41
1:B:341:SER:O	1:B:559:GLU:OE2	2.39	0.41
1:B:350:ASP:CG	1:B:430:VAL:N	2.72	0.41
1:B:364:TRP:CE2	1:B:628:VAL:CG1	3.02	0.41
1:B:400:THR:OG1	1:B:686:ILE:HG23	2.21	0.41
1:B:401:LEU:HB3	1:B:404:ILE:HD12	2.03	0.41
1:B:512:GLU:O	1:B:514:GLY:N	2.53	0.41
1:B:534:ALA:N	1:B:535:ILE:C	2.73	0.41
1:B:735:MET:HB3	1:B:737:LEU:CD1	2.16	0.41
1:A:6:VAL:CG2	1:A:434:GLY:CA	2.85	0.41
1:A:38:LEU:CG	1:A:39:GLN:N	2.84	0.41
1:A:52:LEU:CD1	1:A:53:LEU:N	2.72	0.41
1:A:73:TYR:C	1:A:73:TYR:HD1	2.25	0.41
1:A:110:ILE:O	1:A:112:GLY:N	2.43	0.41
1:A:179:THR:O	1:A:332:LYS:CE	2.65	0.41
1:A:204:SER:O	1:A:205:VAL:HB	2.21	0.41
1:A:263:PRO:HG3	1:A:502:VAL:HG21	2.00	0.41
1:A:349:ILE:HD12	1:A:357:HIS:O	2.20	0.41
1:A:387:LEU:H	1:A:572:THR:HG22	1.85	0.41
1:A:542:THR:HG23	1:A:544:GLU:HB2	1.98	0.41
1:A:735:MET:SD	1:A:737:LEU:HB2	2.59	0.41
1:A:735:MET:HG3	1:A:737:LEU:C	2.40	0.41
1:A:747:THR:HA	1:A:750:LEU:CG	2.51	0.41
1:B:44:PHE:O	1:B:45:SER:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:52:LEU:O	1:B:173:ARG:HA	2.21	0.41
1:B:70:PHE:CA	1:B:85:LEU:HD13	2.51	0.41
1:B:102:ILE:O	1:B:106:LEU:CB	2.69	0.41
1:B:350:ASP:HB2	1:B:429:THR:N	2.35	0.41
1:B:364:TRP:N	1:B:410:VAL:HG21	2.36	0.41
1:B:374:THR:H	1:B:387:LEU:CB	2.34	0.41
1:B:399:ALA:O	1:B:403:PRO:CD	2.69	0.41
1:B:591:ASP:O	1:B:606:VAL:O	2.37	0.41
1:A:5:LYS:N	1:A:5:LYS:CD	2.77	0.40
1:A:36:LEU:CA	1:A:263:PRO:CA	2.94	0.40
1:A:62:ASP:OD1	1:A:65:MET:N	2.46	0.40
1:A:89:PHE:CD1	1:A:89:PHE:C	2.94	0.40
1:A:101:GLU:OE1	1:A:102:ILE:HG13	2.21	0.40
1:A:185:ALA:O	1:A:189:CYS:SG	2.78	0.40
1:A:345:GLN:HA	1:A:360:VAL:CB	2.51	0.40
1:A:359:VAL:CG1	1:A:438:THR:O	2.69	0.40
1:A:417:ARG:CA	1:A:420:VAL:HB	2.51	0.40
1:A:503:VAL:CG2	1:A:519:VAL:CA	2.99	0.40
1:A:547:GLU:CA	1:A:550:ALA:CB	2.85	0.40
1:A:580:TRP:CD1	1:A:581:HIS:CA	3.04	0.40
1:A:641:VAL:O	1:A:645:ARG:HG2	2.21	0.40
1:A:735:MET:CG	1:A:737:LEU:N	2.72	0.40
1:B:58:LYS:HE2	1:B:58:LYS:H	1.84	0.40
1:B:68:ARG:NH2	1:B:328:VAL:HA	2.31	0.40
1:B:116:ARG:HD3	1:B:116:ARG:HA	1.76	0.40
1:B:159:SER:OG	1:B:159:SER:O	2.37	0.40
1:B:176:ARG:NE	1:B:176:ARG:C	2.72	0.40
1:B:467:VAL:HG22	1:B:468:ASP:H	1.84	0.40
1:B:509:VAL:HG23	1:B:511:ALA:HB2	2.03	0.40
1:B:631:ALA:O	1:B:635:MET:SD	2.79	0.40
1:A:157:VAL:C	1:A:158:LEU:HD12	2.41	0.40
1:A:182:ASN:O	1:A:185:ALA:CB	2.68	0.40
1:A:380:ASN:O	1:A:381:ASN:CB	2.69	0.40
1:A:446:GLU:O	1:A:450:ALA:CB	2.69	0.40
1:A:509:VAL:HG23	1:A:510:ALA:H	1.85	0.40
1:A:616:GLN:HE21	1:A:616:GLN:CA	2.31	0.40
1:A:675:LEU:CD1	1:A:721:HIS:CD2	2.94	0.40
1:B:12:SER:O	1:B:463:ARG:CB	2.69	0.40
1:B:65:MET:O	1:B:69:LEU:HD23	2.20	0.40
1:B:66:TYR:C	1:B:68:ARG:N	2.73	0.40
1:B:114:SER:O	1:B:117:ALA:CB	2.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:119:LYS:CB	1:B:219:ALA:HB3	2.35	0.40
1:B:132:LEU:CD2	1:B:147:HIS:O	2.70	0.40
1:B:173:ARG:NH2	1:B:578:TRP:HZ2	2.20	0.40
1:B:181:PRO:CB	1:B:331:PHE:CE2	2.85	0.40
1:B:232:ALA:CA	1:B:235:THR:OG1	2.69	0.40
1:B:522:VAL:HB	1:B:540:ILE:HD12	2.01	0.40
1:B:553:LYS:HD3	1:B:553:LYS:HA	1.92	0.40
1:B:564:LYS:HB3	1:B:565:VAL:H	1.55	0.40
1:B:577:ILE:CD1	1:B:578:TRP:O	2.69	0.40
1:B:702:MET:CE	1:B:702:MET:CA	2.92	0.40
1:B:744:GLU:HA	1:B:747:THR:OG1	2.20	0.40
1:A:18:GLN:O	1:A:21:ALA:CB	2.70	0.40
1:A:29:LEU:O	1:A:30:SER:HB2	2.21	0.40
1:A:44:PHE:CD2	1:A:333:LEU:HA	2.57	0.40
1:A:104:ARG:CZ	1:A:104:ARG:CA	2.99	0.40
1:A:145:LEU:O	1:A:148:HIS:CA	2.68	0.40
1:A:173:ARG:CB	1:A:579:PRO:HG3	2.51	0.40
1:A:182:ASN:O	1:A:186:LEU:CD1	2.69	0.40
1:A:201:ALA:O	1:A:204:SER:CA	2.69	0.40
1:A:237:PHE:CD1	1:A:237:PHE:C	2.95	0.40
1:A:237:PHE:C	1:A:240:SER:CB	2.90	0.40
1:A:462:LEU:HD22	1:A:462:LEU:HA	1.89	0.40
1:A:600:LYS:HD3	1:A:602:TYR:HE1	1.86	0.40
1:A:606:VAL:HA	1:A:610:GLU:OE2	2.21	0.40
1:B:22:ILE:CD1	1:B:516:LEU:O	2.70	0.40
1:B:77:GLY:O	1:B:78:GLY:C	2.59	0.40
1:B:96:THR:HG23	1:B:237:PHE:HB3	2.03	0.40
1:B:103:TRP:NE1	1:B:231:ASN:HA	2.31	0.40
1:B:165:LEU:CD2	1:B:166:PRO:HA	2.52	0.40
1:B:254:LEU:HG	1:B:294:TYR:HA	2.03	0.40
1:B:308:PHE:CZ	1:B:318:ILE:N	2.78	0.40
1:B:343:ILE:CG2	1:B:345:GLN:OE1	2.69	0.40
1:B:500:GLU:O	1:B:501:VAL:CG2	2.69	0.40
1:B:560:VAL:CG2	1:B:561:LEU:N	2.84	0.40
1:B:645:ARG:CG	1:B:646:THR:N	2.85	0.40
1:B:647:LEU:HD13	1:B:648:ALA:HA	2.04	0.40
1:B:714:LEU:HD23	1:B:714:LEU:HA	1.91	0.40
1:A:64:VAL:HG12	1:A:196:ARG:HG2	2.04	0.40
1:A:100:PRO:CG	1:A:101:GLU:H	2.28	0.40
1:A:126:VAL:HG21	1:A:165:LEU:CB	2.11	0.40
1:A:187:VAL:HG11	1:A:247:ASN:N	2.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:292:ILE:O	1:A:296:ASP:CB	2.69	0.40
1:A:374:THR:HB	1:A:620:ARG:CZ	2.51	0.40
1:A:421:TYR:CA	1:A:423:ALA:O	2.70	0.40
1:A:498:ASN:ND2	1:A:522:VAL:CG1	2.80	0.40
1:A:502:VAL:CG2	1:A:503:VAL:HG12	2.51	0.40
1:A:530:VAL:CB	1:A:551:TYR:OH	2.70	0.40
1:A:580:TRP:CE2	1:A:581:HIS:HA	2.50	0.40
1:A:589:TYR:CE2	1:A:590:GLU:C	2.95	0.40
1:A:653:THR:HG23	1:A:655:ARG:HD3	2.03	0.40
1:B:24:GLU:O	1:B:24:GLU:CG	2.69	0.40
1:B:46:ALA:C	1:B:334:ARG:NH2	2.75	0.40
1:B:88:GLN:NE2	1:B:143:HIS:CD2	2.74	0.40
1:B:117:ALA:CB	1:B:222:PRO:CG	2.85	0.40
1:B:238:GLU:O	1:B:241:ARG:HD3	2.21	0.40
1:B:254:LEU:HB2	1:B:297:MET:HE1	1.63	0.40
1:B:259:ARG:CG	1:B:268:GLU:O	2.70	0.40
1:B:298:VAL:CA	1:B:302:GLY:H	2.34	0.40
1:B:527:ARG:N	1:B:527:ARG:CD	2.81	0.40
1:B:561:LEU:N	1:B:561:LEU:CD2	2.81	0.40
1:B:589:TYR:H	1:B:734:MET:HG3	1.85	0.40
1:B:607:LYS:HG3	1:B:609:PHE:CD2	2.49	0.40
1:B:647:LEU:C	1:B:647:LEU:CD1	2.85	0.40
1:A:4:LEU:HD21	1:A:17:THR:CG2	2.45	0.40
1:A:151:THR:O	1:A:154:VAL:HB	2.21	0.40
1:A:217:LYS:O	1:A:219:ALA:CB	2.70	0.40
1:A:230:ALA:CA	1:A:233:ALA:HB3	2.45	0.40
1:A:268:GLU:CD	1:A:269:LEU:CG	2.70	0.40
1:A:365:GLN:CD	1:A:366:PHE:CA	2.85	0.40
1:A:404:ILE:C	1:A:406:ASN:H	2.24	0.40
1:A:466:ILE:H	1:A:466:ILE:HG13	1.57	0.40
1:A:493:TYR:CG	1:A:549:ILE:HD12	2.54	0.40
1:A:517:TYR:OH	1:A:520:TRP:CE3	2.74	0.40
1:A:534:ALA:C	1:A:535:ILE:HG23	2.41	0.40
1:A:535:ILE:HD11	1:A:541:ARG:N	2.37	0.40
1:A:572:THR:O	1:A:574:SER:C	2.54	0.40
1:B:14:ARG:O	1:B:17:THR:CB	2.70	0.40
1:B:53:LEU:CG	1:B:571:HIS:ND1	2.84	0.40
1:B:72:GLN:O	1:B:75:GLN:CA	2.69	0.40
1:B:75:GLN:NE2	1:B:177:THR:OG1	2.54	0.40
1:B:97:ALA:CA	1:B:99:ASN:OD1	2.70	0.40
1:B:107:THR:CA	1:B:110:ILE:CG1	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:111:THR:CG2	1:B:121:ASP:OD1	2.70	0.40
1:B:123:VAL:HA	1:B:164:ILE:HG22	1.93	0.40
1:B:244:PHE:CD1	1:B:318:ILE:CG2	2.96	0.40
1:B:291:PHE:CE2	1:B:503:VAL:HG22	2.56	0.40
1:B:307:ILE:O	1:B:308:PHE:C	2.60	0.40
1:B:327:GLU:OE1	1:B:327:GLU:CA	2.69	0.40
1:B:342:TYR:HB2	1:B:363:ASP:CB	2.51	0.40
1:B:410:VAL:HG23	1:B:411:SER:N	2.36	0.40
1:B:497:HIS:CD2	1:B:549:ILE:HD11	2.02	0.40
1:B:663:ILE:C	1:B:663:ILE:CD1	2.85	0.40
1:B:694:ALA:HB1	1:B:726:TRP:CD1	2.57	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	755/761 (99%)	575 (76%)	109 (14%)	71 (9%)	0	12
1	B	757/761 (100%)	591 (78%)	105 (14%)	61 (8%)	1	14
All	All	1512/1522 (99%)	1166 (77%)	214 (14%)	132 (9%)	1	13

All (132) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	34	LEU
1	A	61	ILE
1	A	119	LYS
1	A	123	VAL
1	A	144	GLU
1	A	162	GLY
1	A	181	PRO

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Mol	Chain	Res	Type
1	A	198	MET
1	A	241	ARG
1	A	263	PRO
1	A	356	SER
1	A	386	PHE
1	A	433	ASN
1	A	477	ASN
1	A	503	VAL
1	A	527	ARG
1	A	531	GLY
1	A	582	GLU
1	A	625	LYS
1	A	655	ARG
1	A	740	ARG
1	B	45	SER
1	B	61	ILE
1	B	99	ASN
1	B	113	SER
1	B	118	ILE
1	B	126	VAL
1	B	145	LEU
1	B	156	HIS
1	B	164	ILE
1	B	221	ALA
1	B	222	PRO
1	B	268	GLU
1	B	277	ASN
1	B	303	ARG
1	B	340	THR
1	B	342	TYR
1	B	349	ILE
1	B	355	PRO
1	B	359	VAL
1	B	378	LEU
1	B	442	PRO
1	B	540	ILE
1	B	565	VAL
1	B	582	GLU
1	B	585	THR
1	B	598	ARG
1	B	626	PRO
1	B	740	ARG

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Mol	Chain	Res	Type
1	B	754	ASN
1	B	760	VAL
1	A	115	ASN
1	A	219	ALA
1	A	251	SER
1	A	292	ILE
1	A	332	LYS
1	A	348	ALA
1	A	349	ILE
1	A	361	TYR
1	A	362	GLU
1	A	437	MET
1	A	497	HIS
1	A	502	VAL
1	A	584	SER
1	A	597	ILE
1	A	684	THR
1	A	739	SER
1	B	62	ASP
1	B	98	CYS
1	B	111	THR
1	B	174	VAL
1	B	271	PRO
1	B	376	VAL
1	B	409	ALA
1	B	501	VAL
1	B	621	VAL
1	A	129	THR
1	A	222	PRO
1	A	289	ALA
1	A	319	PRO
1	A	338	GLU
1	A	381	ASN
1	A	467	VAL
1	A	522	VAL
1	A	555	ILE
1	A	558	SER
1	A	656	ASP
1	B	5	LYS
1	B	48	MET
1	B	603	THR
1	B	609	PHE

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Mol	Chain	Res	Type
1	A	21	ALA
1	A	31	VAL
1	A	165	LEU
1	A	205	VAL
1	A	328	VAL
1	A	382	SER
1	A	408	PHE
1	A	468	ASP
1	A	475	ALA
1	B	36	LEU
1	B	78	GLY
1	B	351	HIS
1	B	454	ASP
1	B	611	LEU
1	A	18	GLN
1	A	315	SER
1	A	445	VAL
1	A	559	GLU
1	A	690	ALA
1	A	714	LEU
1	B	43	THR
1	B	229	LEU
1	B	509	VAL
1	B	529	PRO
1	B	557	PRO
1	A	127	PRO
1	A	330	PRO
1	A	573	THR
1	B	429	THR
1	A	37	PRO
1	B	127	PRO
1	B	441	PHE
1	B	578	TRP
1	A	110	ILE
1	A	556	GLN
1	B	270	ASP
1	A	375	PRO
1	A	578	TRP
1	B	502	VAL
1	B	555	ILE
1	B	370	ILE

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	629/629 (100%)	341 (54%)	288 (46%)	0 0
1	B	629/629 (100%)	340 (54%)	289 (46%)	0 0
All	All	1258/1258 (100%)	681 (54%)	577 (46%)	0 0

All (577) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	5	LYS
1	A	6	VAL
1	A	8	ASP
1	A	9	LEU
1	A	14	ARG
1	A	16	LEU
1	A	17	THR
1	A	20	PHE
1	A	24	GLU
1	A	25	LEU
1	A	26	LYS
1	A	27	ASN
1	A	28	GLN
1	A	39	GLN
1	A	40	PHE
1	A	41	THR
1	A	42	ARG
1	A	43	THR
1	A	44	PHE
1	A	45	SER
1	A	48	MET
1	A	49	THR
1	A	50	SER
1	A	51	GLU
1	A	52	LEU
1	A	53	LEU
1	A	55	GLU

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Mol	Chain	Res	Type
1	A	58	LYS
1	A	62	ASP
1	A	68	ARG
1	A	70	PHE
1	A	71	PHE
1	A	72	GLN
1	A	73	TYR
1	A	80	LEU
1	A	81	SER
1	A	84	GLU
1	A	85	LEU
1	A	92	TYR
1	A	95	SER
1	A	101	GLU
1	A	104	ARG
1	A	105	LYS
1	A	107	THR
1	A	109	TYR
1	A	110	ILE
1	A	111	THR
1	A	113	SER
1	A	116	ARG
1	A	121	ASP
1	A	127	PRO
1	A	133	GLU
1	A	136	ARG
1	A	137	THR
1	A	141	SER
1	A	142	GLU
1	A	143	HIS
1	A	144	GLU
1	A	145	LEU
1	A	146	PHE
1	A	156	HIS
1	A	161	LEU
1	A	164	ILE
1	A	165	LEU
1	A	166	PRO
1	A	167	ASP
1	A	172	TYR
1	A	173	ARG
1	A	174	VAL

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Mol	Chain	Res	Type
1	A	179	THR
1	A	180	TYR
1	A	183	PHE
1	A	188	ASP
1	A	190	VAL
1	A	193	SER
1	A	194	ASP
1	A	195	LEU
1	A	196	ARG
1	A	197	ARG
1	A	199	LEU
1	A	200	THR
1	A	202	LEU
1	A	203	SER
1	A	206	ASP
1	A	208	LYS
1	A	209	MET
1	A	210	LEU
1	A	211	GLN
1	A	214	PHE
1	A	215	LYS
1	A	220	LEU
1	A	229	LEU
1	A	238	GLU
1	A	239	ARG
1	A	240	SER
1	A	250	VAL
1	A	251	SER
1	A	253	VAL
1	A	262	SER
1	A	267	LYS
1	A	274	ARG
1	A	275	LEU
1	A	276	ARG
1	A	284	LEU
1	A	287	ASN
1	A	288	LEU
1	A	290	LEU
1	A	292	ILE
1	A	294	TYR
1	A	300	GLN
1	A	301	ARG

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Mol	Chain	Res	Type
1	A	303	ARG
1	A	307	ILE
1	A	311	GLU
1	A	313	LEU
1	A	317	ILE
1	A	325	MET
1	A	326	SER
1	A	327	GLU
1	A	328	VAL
1	A	331	PHE
1	A	332	LYS
1	A	334	ARG
1	A	336	ILE
1	A	339	THR
1	A	340	THR
1	A	342	TYR
1	A	345	GLN
1	A	346	THR
1	A	350	ASP
1	A	351	HIS
1	A	352	MET
1	A	354	GLN
1	A	355	PRO
1	A	357	HIS
1	A	363	ASP
1	A	373	PHE
1	A	377	LYS
1	A	378	LEU
1	A	381	ASN
1	A	384	GLN
1	A	387	LEU
1	A	393	ILE
1	A	396	ARG
1	A	397	MET
1	A	398	SER
1	A	400	THR
1	A	401	LEU
1	A	407	THR
1	A	413	PHE
1	A	415	LYS
1	A	417	ARG
1	A	418	THR

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Mol	Chain	Res	Type
1	A	420	VAL
1	A	421	TYR
1	A	424	VAL
1	A	427	ARG
1	A	431	ASN
1	A	438	THR
1	A	439	LEU
1	A	443	SER
1	A	447	ARG
1	A	448	ASP
1	A	453	ARG
1	A	455	PRO
1	A	456	MET
1	A	462	LEU
1	A	463	ARG
1	A	471	LEU
1	A	474	ARG
1	A	480	LYS
1	A	481	ARG
1	A	483	MET
1	A	484	PHE
1	A	485	ASN
1	A	486	TYR
1	A	487	TYR
1	A	493	TYR
1	A	497	HIS
1	A	498	ASN
1	A	500	GLU
1	A	502	VAL
1	A	503	VAL
1	A	505	GLU
1	A	507	GLN
1	A	512	GLU
1	A	515	SER
1	A	517	TYR
1	A	518	LEU
1	A	521	ASN
1	A	522	VAL
1	A	523	ARG
1	A	525	GLU
1	A	526	LEU
1	A	527	ARG

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Mol	Chain	Res	Type
1	A	528	ILE
1	A	536	GLU
1	A	539	SER
1	A	541	ARG
1	A	542	THR
1	A	544	GLU
1	A	545	PRO
1	A	546	LEU
1	A	549	ILE
1	A	553	LYS
1	A	555	ILE
1	A	556	GLN
1	A	568	LEU
1	A	571	HIS
1	A	574	SER
1	A	575	ILE
1	A	576	HIS
1	A	577	ILE
1	A	580	TRP
1	A	581	HIS
1	A	582	GLU
1	A	584	SER
1	A	591	ASP
1	A	593	TYR
1	A	596	THR
1	A	597	ILE
1	A	598	ARG
1	A	599	ASN
1	A	600	LYS
1	A	601	ARG
1	A	606	VAL
1	A	607	LYS
1	A	609	PHE
1	A	610	GLU
1	A	611	LEU
1	A	612	LEU
1	A	614	LEU
1	A	616	GLN
1	A	617	ARG
1	A	619	GLU
1	A	620	ARG
1	A	623	ILE

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Mol	Chain	Res	Type
1	A	624	LEU
1	A	628	VAL
1	A	630	HIS
1	A	632	ILE
1	A	636	TRP
1	A	640	PHE
1	A	641	VAL
1	A	645	ARG
1	A	646	THR
1	A	651	ARG
1	A	652	ARG
1	A	656	ASP
1	A	661	LEU
1	A	664	ASP
1	A	669	GLN
1	A	673	THR
1	A	674	LEU
1	A	676	ARG
1	A	677	LYS
1	A	679	GLU
1	A	680	MET
1	A	691	VAL
1	A	693	LEU
1	A	697	ARG
1	A	698	ILE
1	A	700	ASP
1	A	701	GLN
1	A	702	MET
1	A	707	LEU
1	A	708	ILE
1	A	711	SER
1	A	714	LEU
1	A	715	HIS
1	A	716	VAL
1	A	718	ILE
1	A	720	ARG
1	A	721	HIS
1	A	722	ARG
1	A	723	ILE
1	A	724	ARG
1	A	732	LEU
1	A	733	GLN

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Mol	Chain	Res	Type
1	A	735	MET
1	A	738	LEU
1	A	739	SER
1	A	742	GLU
1	A	748	LYS
1	A	752	ASP
1	A	753	SER
1	A	759	VAL
1	A	760	VAL
1	B	9	LEU
1	B	16	LEU
1	B	20	PHE
1	B	22	ILE
1	B	25	LEU
1	B	26	LYS
1	B	27	ASN
1	B	28	GLN
1	B	29	LEU
1	B	34	LEU
1	B	35	GLN
1	B	36	LEU
1	B	38	LEU
1	B	42	ARG
1	B	44	PHE
1	B	45	SER
1	B	47	SER
1	B	48	MET
1	B	52	LEU
1	B	53	LEU
1	B	54	TRP
1	B	56	VAL
1	B	58	LYS
1	B	60	ASN
1	B	61	ILE
1	B	65	MET
1	B	66	TYR
1	B	68	ARG
1	B	71	PHE
1	B	73	TYR
1	B	80	LEU
1	B	84	GLU
1	B	87	ASN

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Mol	Chain	Res	Type
1	B	90	THR
1	B	91	GLU
1	B	92	TYR
1	B	101	GLU
1	B	102	ILE
1	B	103	TRP
1	B	104	ARG
1	B	105	LYS
1	B	109	TYR
1	B	114	SER
1	B	121	ASP
1	B	131	ILE
1	B	132	LEU
1	B	134	GLN
1	B	143	HIS
1	B	144	GLU
1	B	145	LEU
1	B	146	PHE
1	B	151	THR
1	B	155	CYS
1	B	156	HIS
1	B	157	VAL
1	B	158	LEU
1	B	161	LEU
1	B	163	PHE
1	B	164	ILE
1	B	165	LEU
1	B	170	TYR
1	B	173	ARG
1	B	176	ARG
1	B	177	THR
1	B	179	THR
1	B	187	VAL
1	B	190	VAL
1	B	191	ARG
1	B	194	ASP
1	B	196	ARG
1	B	197	ARG
1	B	200	THR
1	B	203	SER
1	B	207	SER
1	B	208	LYS

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Mol	Chain	Res	Type
1	B	209	MET
1	B	211	GLN
1	B	214	PHE
1	B	215	LYS
1	B	217	LYS
1	B	222	PRO
1	B	225	ILE
1	B	228	HIS
1	B	229	LEU
1	B	231	ASN
1	B	234	THR
1	B	235	THR
1	B	238	GLU
1	B	241	ARG
1	B	243	ASN
1	B	244	PHE
1	B	251	SER
1	B	256	ILE
1	B	262	SER
1	B	267	LYS
1	B	268	GLU
1	B	269	LEU
1	B	270	ASP
1	B	271	PRO
1	B	272	SER
1	B	274	ARG
1	B	275	LEU
1	B	276	ARG
1	B	278	THR
1	B	279	ASN
1	B	283	GLN
1	B	285	ARG
1	B	287	ASN
1	B	288	LEU
1	B	291	PHE
1	B	295	GLN
1	B	297	MET
1	B	300	GLN
1	B	301	ARG
1	B	303	ARG
1	B	308	PHE
1	B	310	ASP

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Mol	Chain	Res	Type
1	B	313	LEU
1	B	315	SER
1	B	319	PRO
1	B	321	PHE
1	B	323	GLU
1	B	325	MET
1	B	326	SER
1	B	331	PHE
1	B	332	LYS
1	B	333	LEU
1	B	334	ARG
1	B	336	ILE
1	B	337	ASN
1	B	338	GLU
1	B	340	THR
1	B	341	SER
1	B	342	TYR
1	B	343	ILE
1	B	345	GLN
1	B	346	THR
1	B	349	ILE
1	B	357	HIS
1	B	358	VAL
1	B	360	VAL
1	B	361	TYR
1	B	364	TRP
1	B	365	GLN
1	B	368	LYS
1	B	370	ILE
1	B	374	THR
1	B	377	LYS
1	B	378	LEU
1	B	381	ASN
1	B	383	ASN
1	B	386	PHE
1	B	387	LEU
1	B	388	ASP
1	B	397	MET
1	B	403	PRO
1	B	407	THR
1	B	414	VAL
1	B	415	LYS

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Mol	Chain	Res	Type
1	B	417	ARG
1	B	421	TYR
1	B	424	VAL
1	B	426	GLN
1	B	427	ARG
1	B	431	ASN
1	B	432	SER
1	B	433	ASN
1	B	438	THR
1	B	439	LEU
1	B	443	SER
1	B	445	VAL
1	B	446	GLU
1	B	447	ARG
1	B	452	ASP
1	B	453	ARG
1	B	457	VAL
1	B	462	LEU
1	B	464	THR
1	B	466	ILE
1	B	468	ASP
1	B	469	GLU
1	B	470	SER
1	B	471	LEU
1	B	472	GLU
1	B	474	ARG
1	B	479	LEU
1	B	484	PHE
1	B	491	MET
1	B	492	HIS
1	B	493	TYR
1	B	498	ASN
1	B	504	SER
1	B	506	HIS
1	B	507	GLN
1	B	513	GLN
1	B	515	SER
1	B	516	LEU
1	B	517	TYR
1	B	518	LEU
1	B	520	TRP
1	B	523	ARG

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Mol	Chain	Res	Type
1	B	524	THR
1	B	526	LEU
1	B	527	ARG
1	B	528	ILE
1	B	532	TYR
1	B	533	ASN
1	B	552	ASN
1	B	561	LEU
1	B	562	GLN
1	B	564	LYS
1	B	566	LEU
1	B	568	LEU
1	B	570	ASN
1	B	572	THR
1	B	574	SER
1	B	577	ILE
1	B	581	HIS
1	B	584	SER
1	B	585	THR
1	B	587	PHE
1	B	590	GLU
1	B	593	TYR
1	B	594	SER
1	B	597	ILE
1	B	600	LYS
1	B	601	ARG
1	B	607	LYS
1	B	609	PHE
1	B	610	GLU
1	B	612	LEU
1	B	614	LEU
1	B	616	GLN
1	B	617	ARG
1	B	619	GLU
1	B	622	ARG
1	B	623	ILE
1	B	625	LYS
1	B	626	PRO
1	B	633	ILE
1	B	634	GLN
1	B	635	MET
1	B	636	TRP

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Mol	Chain	Res	Type
1	B	637	TYR
1	B	641	VAL
1	B	642	GLU
1	B	651	ARG
1	B	652	ARG
1	B	655	ARG
1	B	656	ASP
1	B	657	ASP
1	B	659	GLU
1	B	660	LYS
1	B	661	LEU
1	B	663	ILE
1	B	666	ARG
1	B	669	GLN
1	B	673	THR
1	B	675	LEU
1	B	676	ARG
1	B	677	LYS
1	B	678	ILE
1	B	680	MET
1	B	684	THR
1	B	693	LEU
1	B	695	GLN
1	B	697	ARG
1	B	702	MET
1	B	707	LEU
1	B	710	ASP
1	B	711	SER
1	B	715	HIS
1	B	716	VAL
1	B	718	ILE
1	B	720	ARG
1	B	721	HIS
1	B	722	ARG
1	B	723	ILE
1	B	724	ARG
1	B	725	ILE
1	B	726	TRP
1	B	729	LEU
1	B	732	LEU
1	B	733	GLN
1	B	735	MET

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Mol	Chain	Res	Type
1	B	741	SER
1	B	750	LEU
1	B	753	SER
1	B	756	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (53) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	3	ASN
1	A	27	ASN
1	A	39	GLN
1	A	72	GLN
1	A	75	GLN
1	A	99	ASN
1	A	148	HIS
1	A	228	HIS
1	A	300	GLN
1	A	337	ASN
1	A	365	GLN
1	A	381	ASN
1	A	497	HIS
1	A	498	ASN
1	A	506	HIS
1	A	521	ASN
1	A	556	GLN
1	A	576	HIS
1	A	599	ASN
1	A	616	GLN
1	A	692	HIS
1	A	721	HIS
1	B	27	ASN
1	B	72	GLN
1	B	75	GLN
1	B	87	ASN
1	B	88	GLN
1	B	94	GLN
1	B	156	HIS
1	B	182	ASN
1	B	211	GLN
1	B	228	HIS
1	B	231	ASN
1	B	243	ASN

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Mol	Chain	Res	Type
1	B	287	ASN
1	B	295	GLN
1	B	300	GLN
1	B	365	GLN
1	B	416	ASN
1	B	426	GLN
1	B	433	ASN
1	B	485	ASN
1	B	498	ASN
1	B	521	ASN
1	B	533	ASN
1	B	556	GLN
1	B	570	ASN
1	B	571	HIS
1	B	581	HIS
1	B	634	GLN
1	B	669	GLN
1	B	692	HIS
1	B	695	GLN

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 monosaccharides 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 (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	5
1	B	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	51:GLU	C	52:LEU	N	2.98
1	A	357:HIS	C	358:VAL	N	2.72
1	B	336:ILE	C	337:ASN	N	2.72
1	B	127:PRO	C	128:PRO	N	1.91
1	A	437:MET	C	438:THR	N	1.61
1	A	390:GLU	C	391:PRO	N	1.19
1	A	466:ILE	C	467:VAL	N	0.50

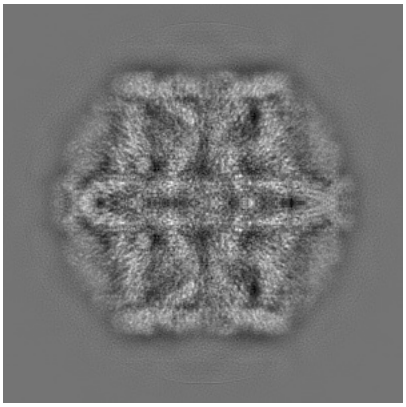
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-2364. These allow visual inspection of the internal detail of the map and identification of artifacts.

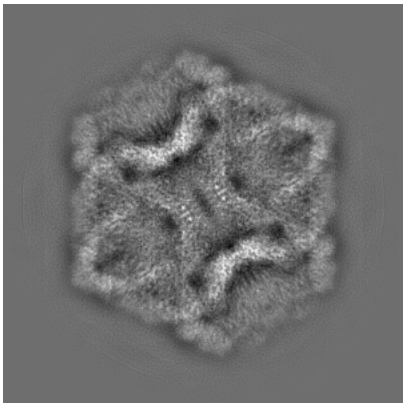
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

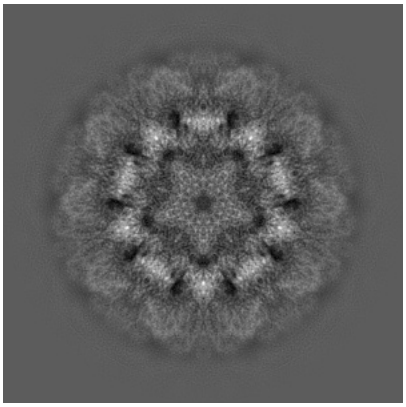
6.1.1 Primary map



X



Y

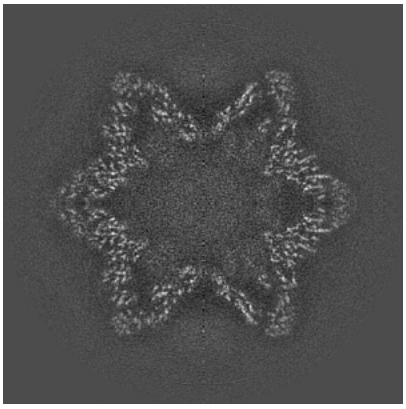


Z

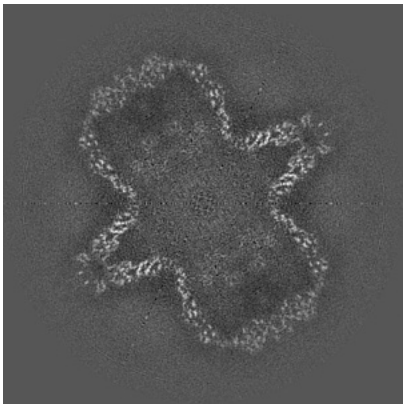
The images above show the map projected in three orthogonal directions.

6.2 Central slices

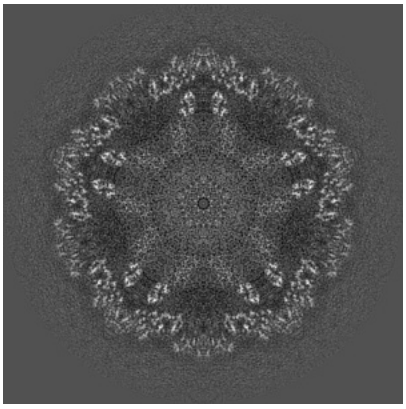
6.2.1 Primary map



X Index: 210



Y Index: 210

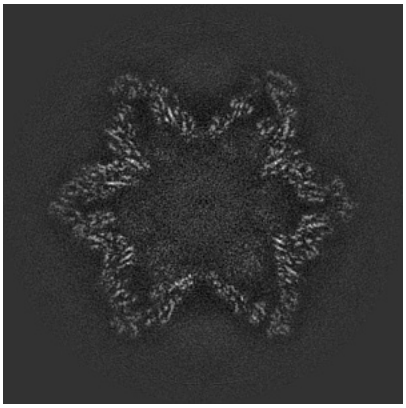


Z Index: 210

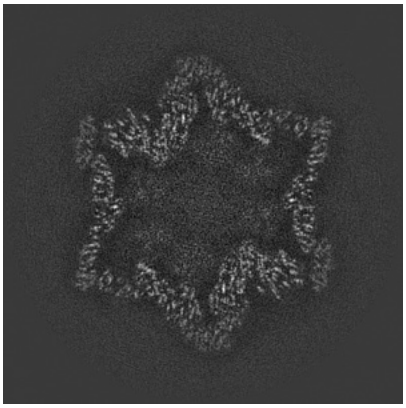
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

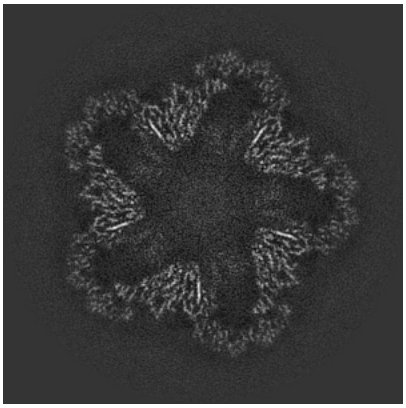
6.3.1 Primary map



X Index: 214



Y Index: 176

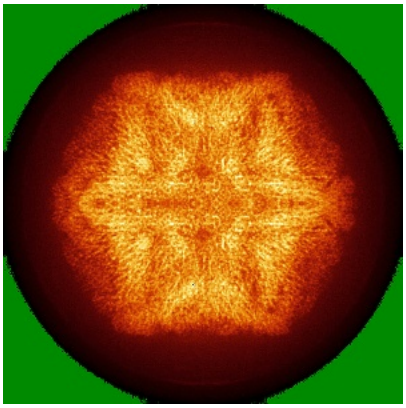


Z Index: 189

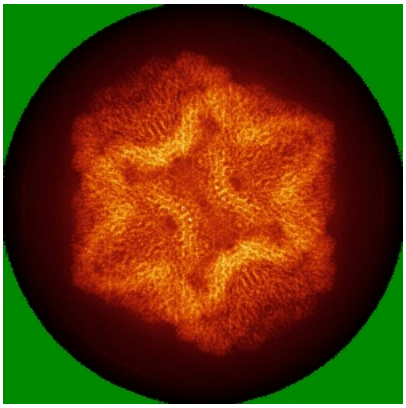
The images above show the largest variance slices of the map in three orthogonal directions.

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

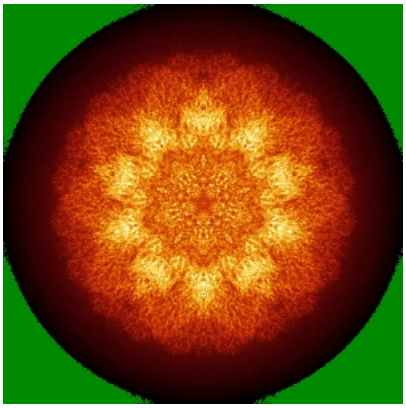
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 2.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

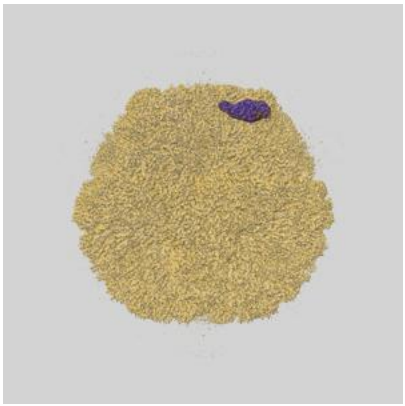
6.6 Mask visualisation

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

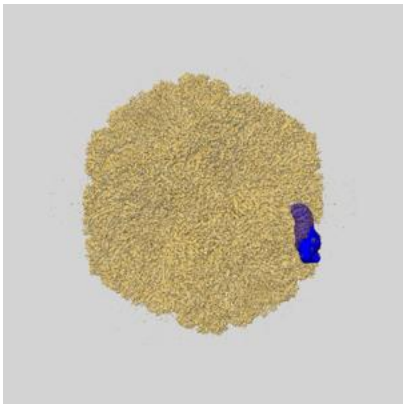
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

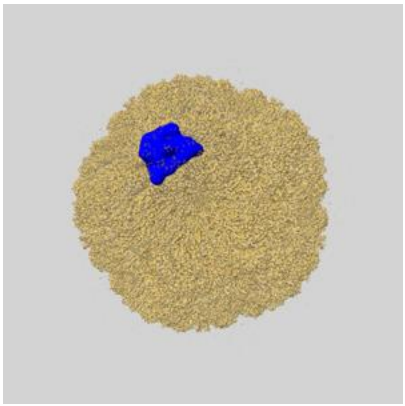
6.6.1 emd_2364_msk_1.map



X

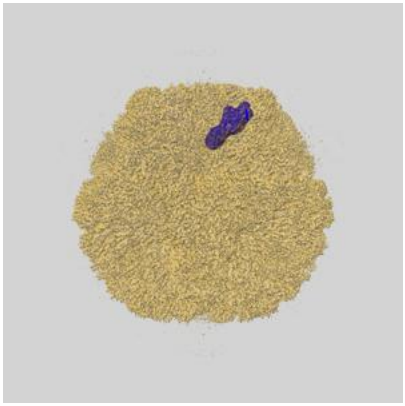


Y



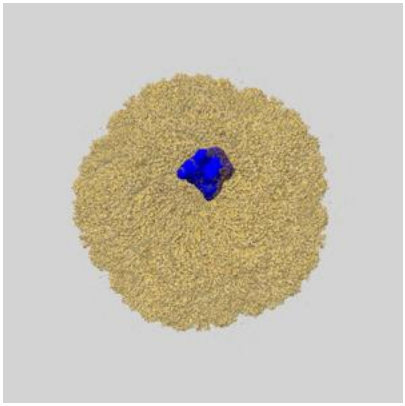
Z

6.6.2 emd_2364_msk_2.map



X

Y

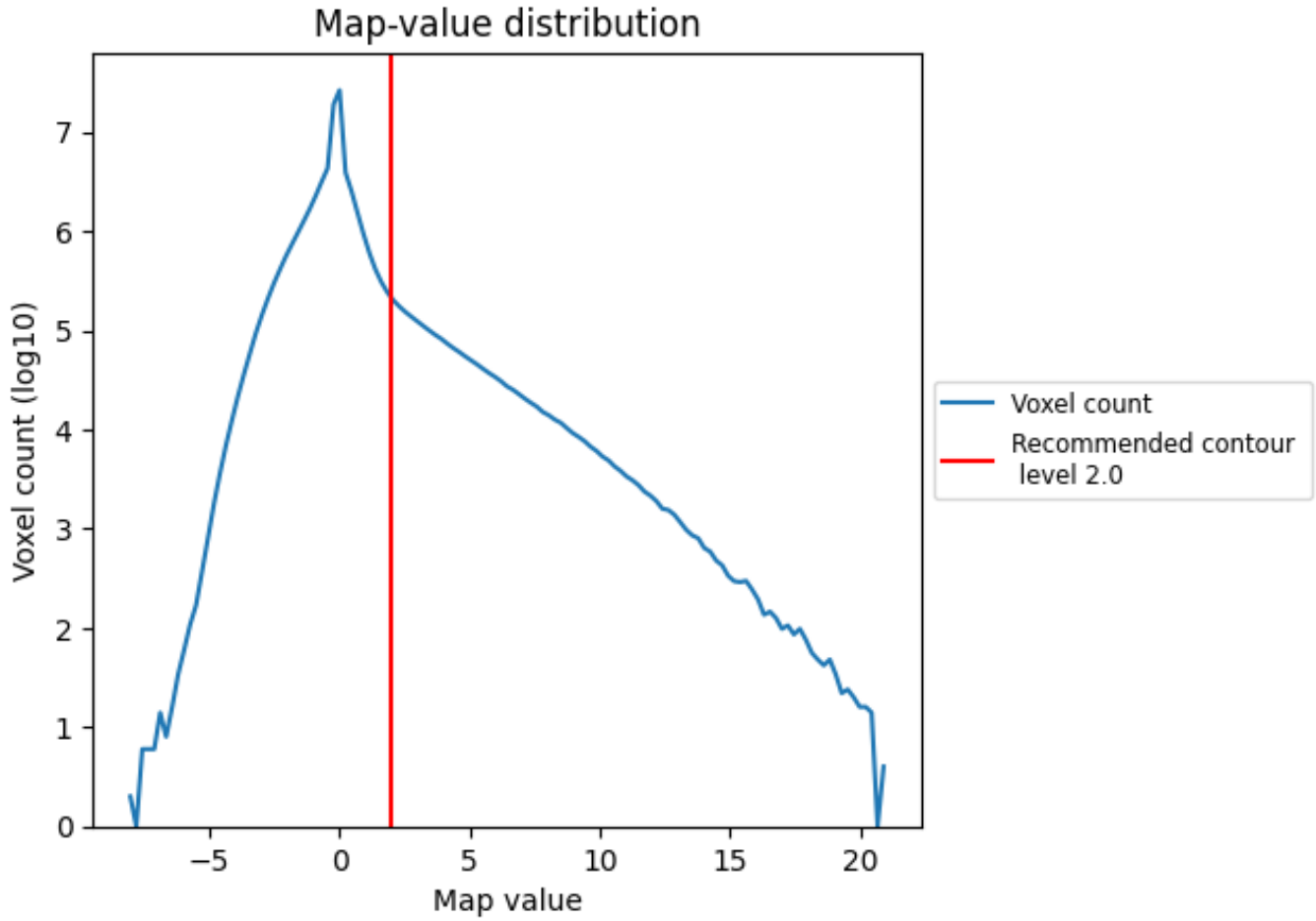


Z

7 Map analysis

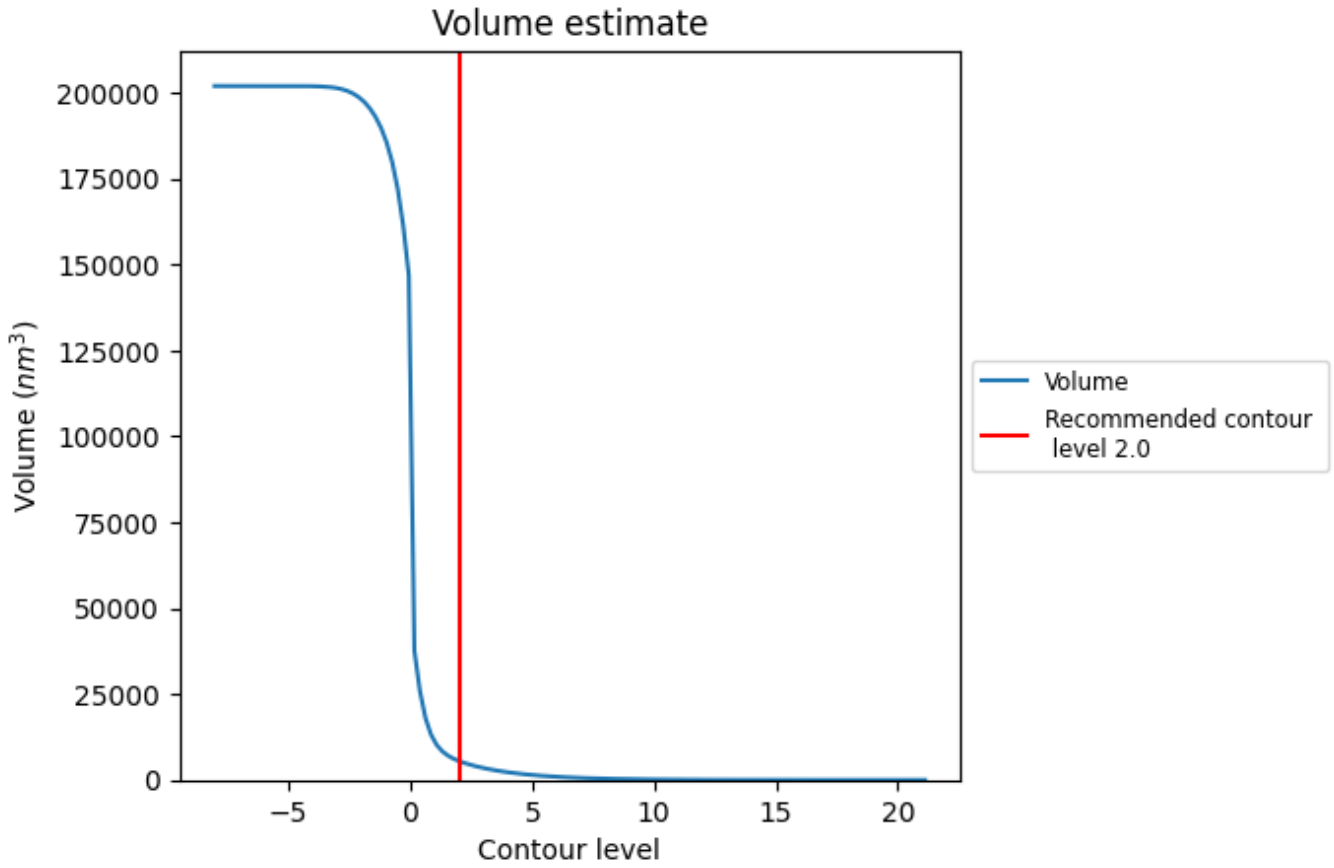
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

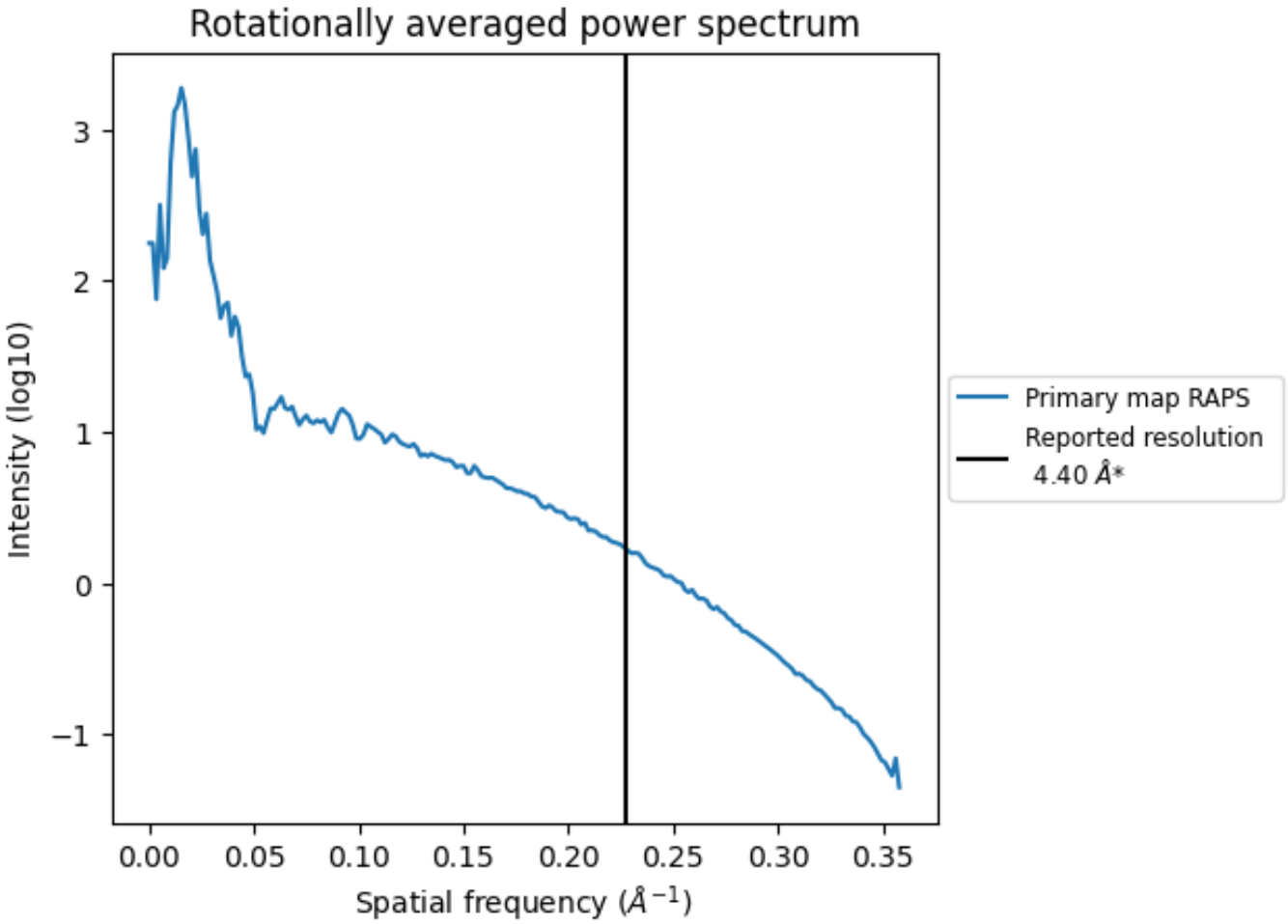
7.2 Volume estimate



The volume at the recommended contour level is 5485 nm^3; this corresponds to an approximate mass of 4954 kDa.

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

7.3 Rotationally averaged power spectrum (i)

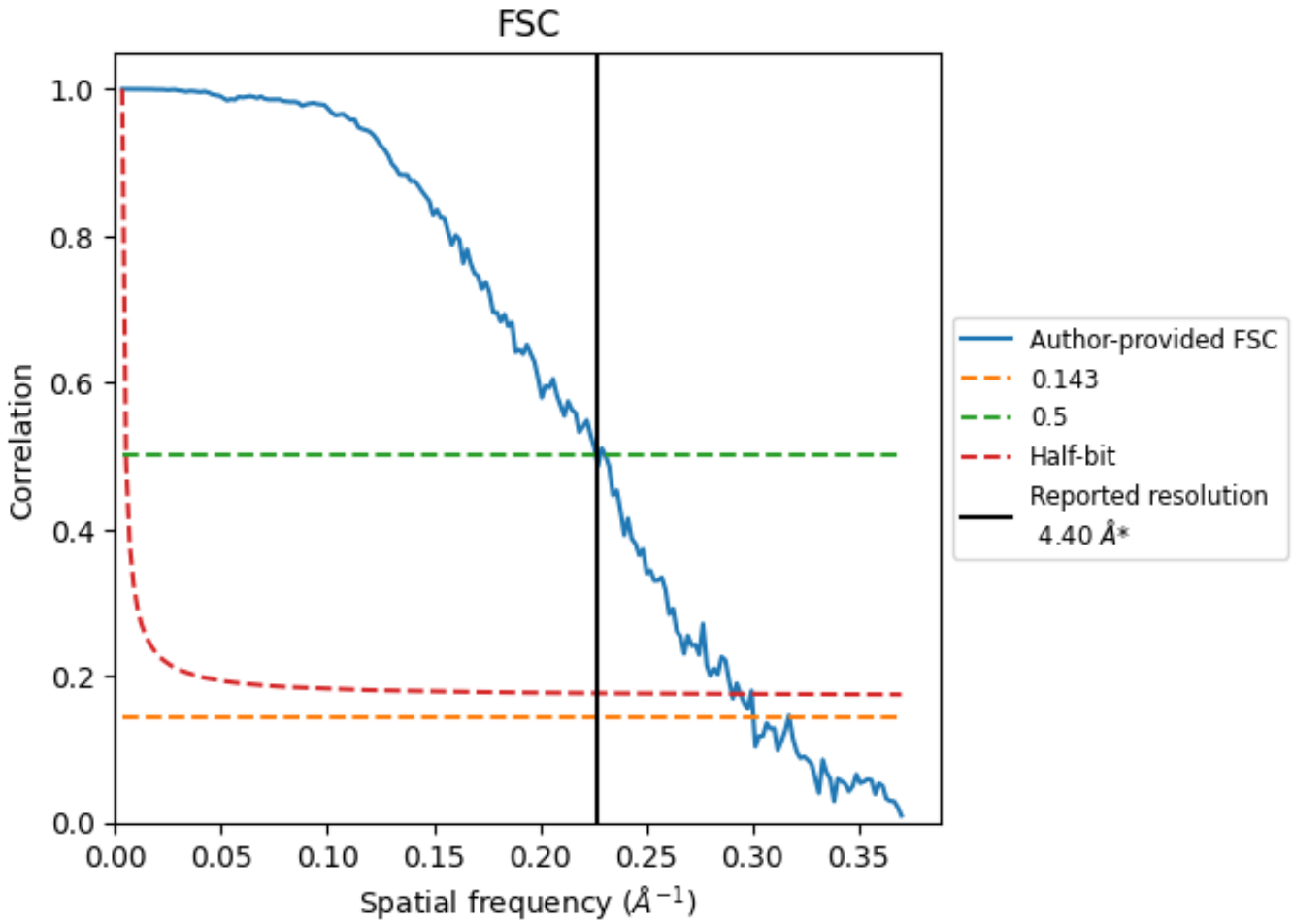


*Reported resolution corresponds to spatial frequency of 0.227 Å^{-1}

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.227 Å^{-1}

8.2 Resolution estimates (i)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	-	-	-
Author-provided FSC curve	3.33	4.42	3.44
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

9 Map-model fit

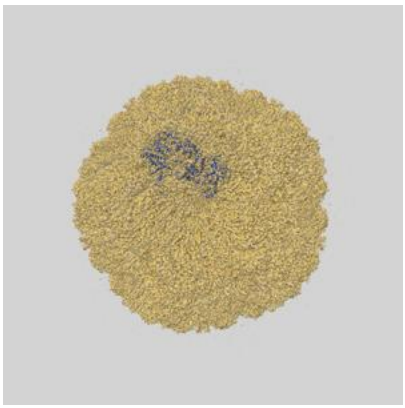
This section contains information regarding the fit between EMDB map EMD-2364 and PDB model 4BTG. Per-residue inclusion information can be found in section 3 on page 4.

9.1 Map-model overlays

9.1.1 Map-model overlay

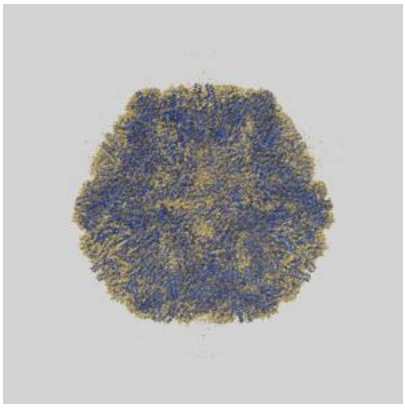
X

Y

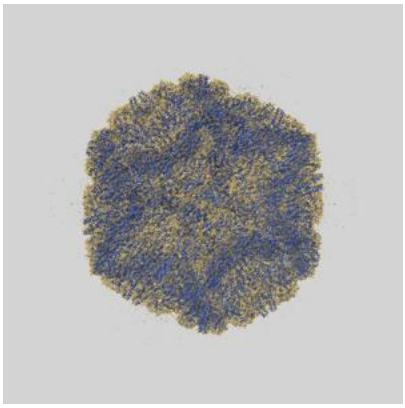


Z

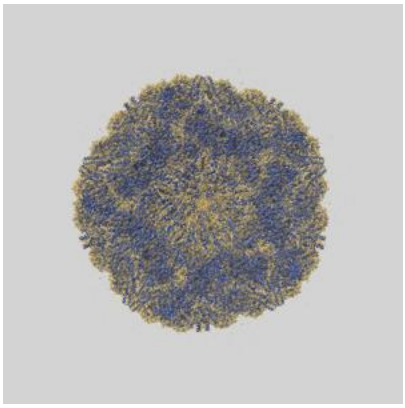
9.1.2 Map-model assembly overlay



X



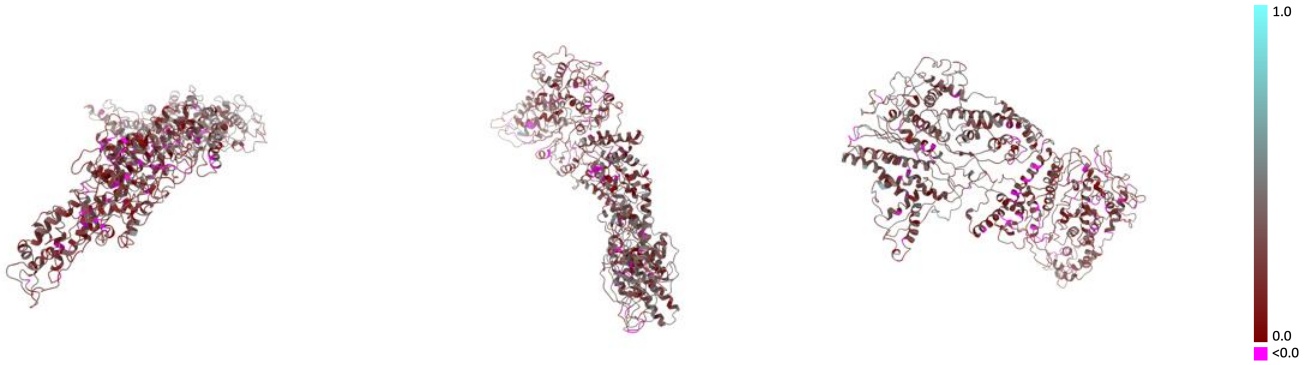
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

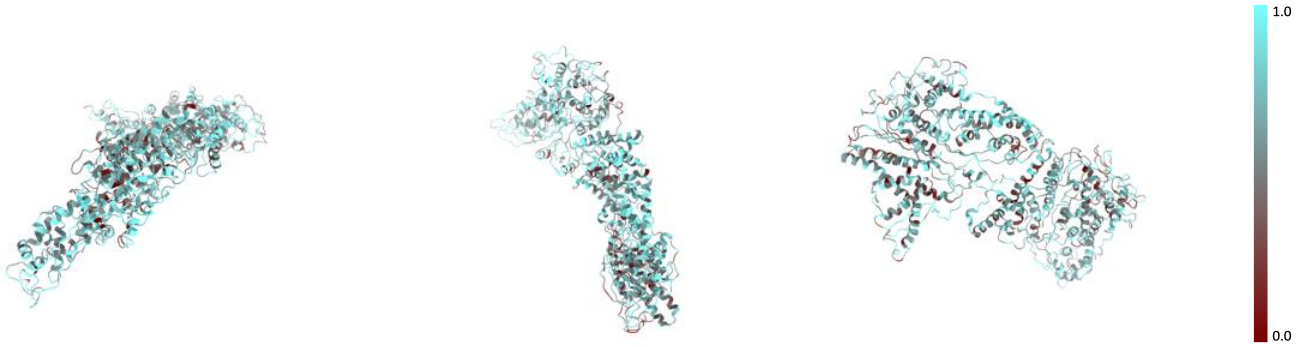
9.2 Q-score mapped to coordinate model



X Y Z

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

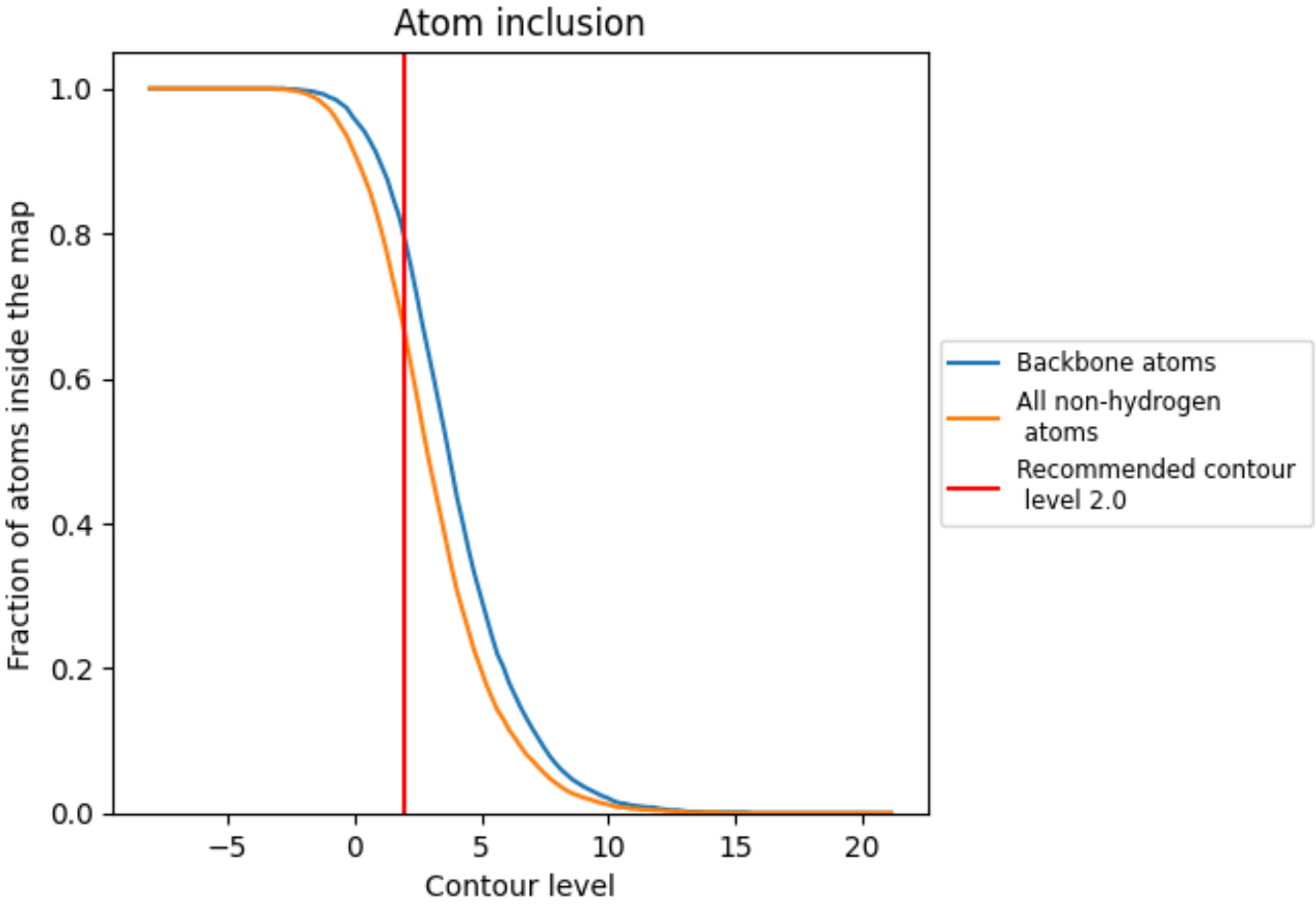
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (2.0).

9.4 Atom inclusion (i)



At the recommended contour level, 79% of all backbone atoms, 66% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (2.0) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6590	0.2840
A	0.6650	0.2390
B	0.6520	0.3280