



Full wwPDB X-ray Structure Validation Report ⓘ

May 13, 2020 – 02:11 am BST

PDB ID : 5JJ3
Title : Refined Structure of the Mature Virion Conformation of P22 Portal Protein
Authors : Lokareddy, R.K.; Sankhala, R.S.; Cingolani, G.
Deposited on : 2016-04-22
Resolution : 7.00 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.11
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

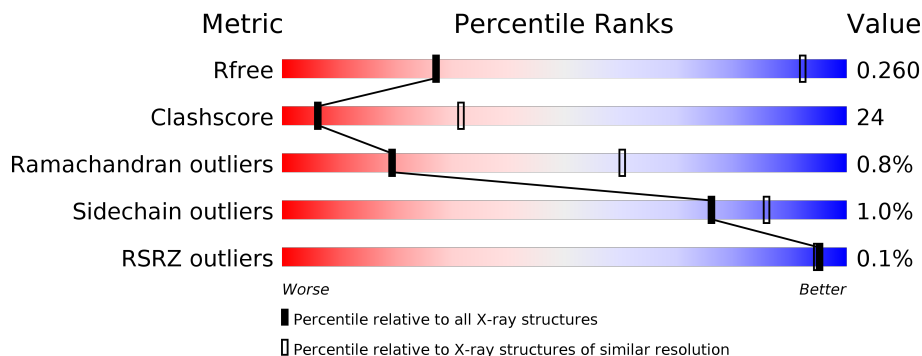
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 7.00 Å.

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








Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1004 (10.00-3.90)
Clashscore	141614	1069 (10.00-3.90)
Ramachandran outliers	138981	1002 (10.00-3.90)
Sidechain outliers	138945	1002 (10.00-3.86)
RSRZ outliers	127900	1004 (9.50-3.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	725	
1	B	725	
1	C	725	
1	D	725	
1	E	725	
1	F	725	

Continued on next page...

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Mol	Chain	Length	Quality of chain			
1	G	725		49%	42%	• 7%
1	H	725		50%	41%	• 7%
1	I	725		49%	43%	• 7%
1	J	725		50%	42%	• 7%
1	K	725		49%	43%	• 7%
1	L	725		49%	43%	• 7%

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 64536 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

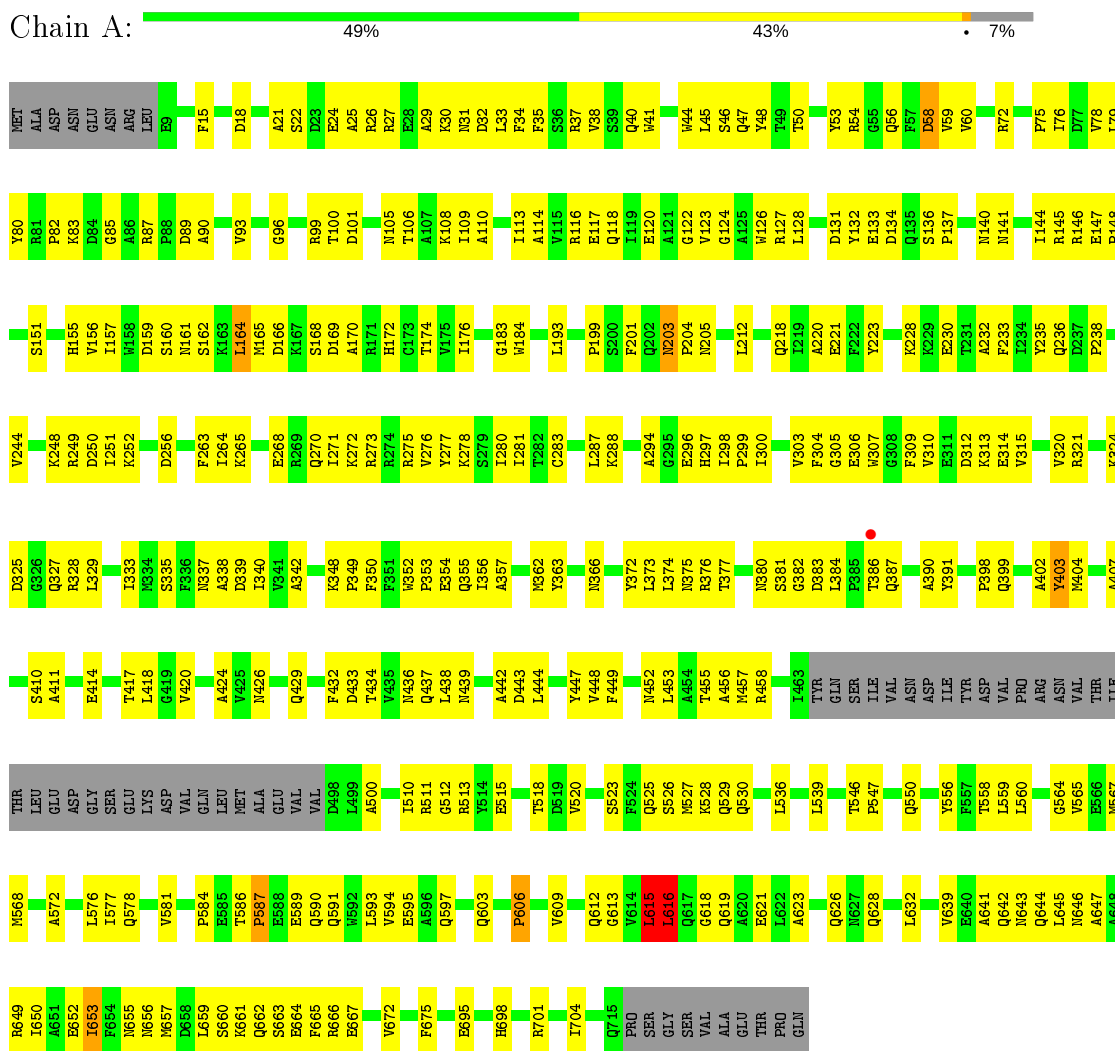
- Molecule 1 is a protein called Portal protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	673	5378	3367	937	1051	23	0	0	0
1	B	673	5378	3367	937	1051	23	0	0	0
1	C	673	5378	3367	937	1051	23	0	0	0
1	D	673	5378	3367	937	1051	23	0	0	0
1	E	673	5378	3367	937	1051	23	0	0	0
1	F	673	5378	3367	937	1051	23	0	0	0
1	G	673	5378	3367	937	1051	23	0	0	0
1	H	673	5378	3367	937	1051	23	0	0	0
1	I	673	5378	3367	937	1051	23	0	0	0
1	J	673	5378	3367	937	1051	23	0	0	0
1	K	673	5378	3367	937	1051	23	0	0	0
1	L	673	5378	3367	937	1051	23	0	0	0

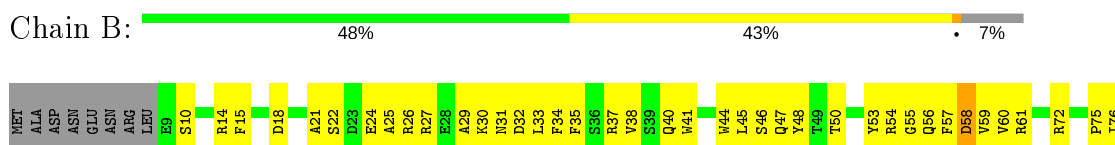
3 Residue-property plots [i](#)

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

- Molecule 1: Portal protein



- Molecule 1: Portal protein

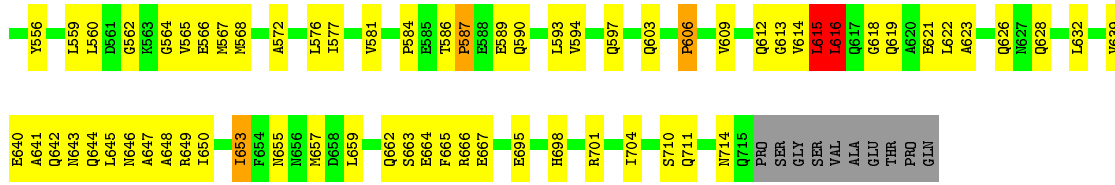


D77	V78	Y80	R81	K83	D84	G85	A86	P88	D89	A90	A91	V93	G96	R99	T100	D101	M105	K108	I109	I113	A114	E117	Q118	G122	V123	G124	R127	L128	D131	Y132	E133	D134	P137	M140	Q142	V143	I144	R145	R146	E147	P148	S151															
A152	H155	V156	D159	S160	M161	S162	K163	L164	M165	D166	K167	S168	H172	C173	T174	V175	I176	G183	L193	F201	Q202	N203	P204	L212	A220	E221	Y223	E224	V225	R228	K229	E230	T231	A232	Y235	Q236	D237	P238	V244	K248	R249	D250	E147	P148	K252												
D256	A259	F263	I264	K265	E268	R269	Q270	R271	K272	R273	R274	V276	Y277	P348	F350	F351	N352	P353	E354	Q355	I356	S279	I280	I281	T282	C283	V286	L287	K288	A294	G295	E296	H297	I298	P299	I300	V303	F304	G305	E306	W307	G308	F309	V310	E311	D312	K313	E314	V315	V320	R321	L322	T323	G324	D325	G326	R328
M334	S335	F336	N337	A338	D339	I340	V341	A342	K348	P349	F350	F351	N352	P353	E354	Q355	I356	S357	G358	T359	F359	M362	Y363	N366	Y372	L373	L374	N375	R376	P299	T377	N360	S381	G382	D383	L384	P385	T386	Q387	A390	Y391	N394	V397	P398	Q399	L322	D361	G362	A402	Y403	A403	S410	E414				
T417	L418	M426	Q429	F432	D433	T434	V435	N436	Q437	L438	N439	A442	D443	L444	Y447	V448	F449	D450	D451	M452	L453	A454	T455	A456	M457	N458	I463	T463	T463	GLN	SER	ILE	VAL	ASN	ASP	ILE	TYR	ILE	THR	ASP	VAL	PRO	ARG	ASN	VAL	THR	ILE	THR	LEU	GLU	ASP	GLY	SER	GLU	LYS		
ASP	VAL	GLN	LEU	MET	ALA	GLU	VAL	D498	L499	A500	I510	R511	G512	R513	Y514	E515	C516	F517	T518	D519	V520	G521	P522	S523	F524	Q525	S526	M527	K528	Q529	Q530	L536	F537	L538	L539	G540	K541	T542	T546	P547	Q550	L551	A556	L559	L560	D561	G562	A563	R564	I565	P566	T563	F564	M567			
M568	A572	L576	L577	V581	P584	E585	T586	P587	E588	E589	Q590	Q591	Y591	L593	V594	E595	T597	Q603	P606	V609	Q612	G613	V614	L615	L616	Q617	G618	Q619	A620	E621	Q628	L632	V639	E640	A641	Q642	N643	Q644	L645	N646	A647	A648	R649	I650	T653	F654											
M555	M556	M557	D558	L559	S560	K561	Q562	S563	E564	F565	R566	E567	E568	E569	H568	K569	Q591	Q592	L593	R594	W595	R701	M702	D703	I704	G715	PRO	SER	GLY	SER	VAL	ALA	GLU	THR	PRO	GLN																					

• Molecule 1: Portal protein

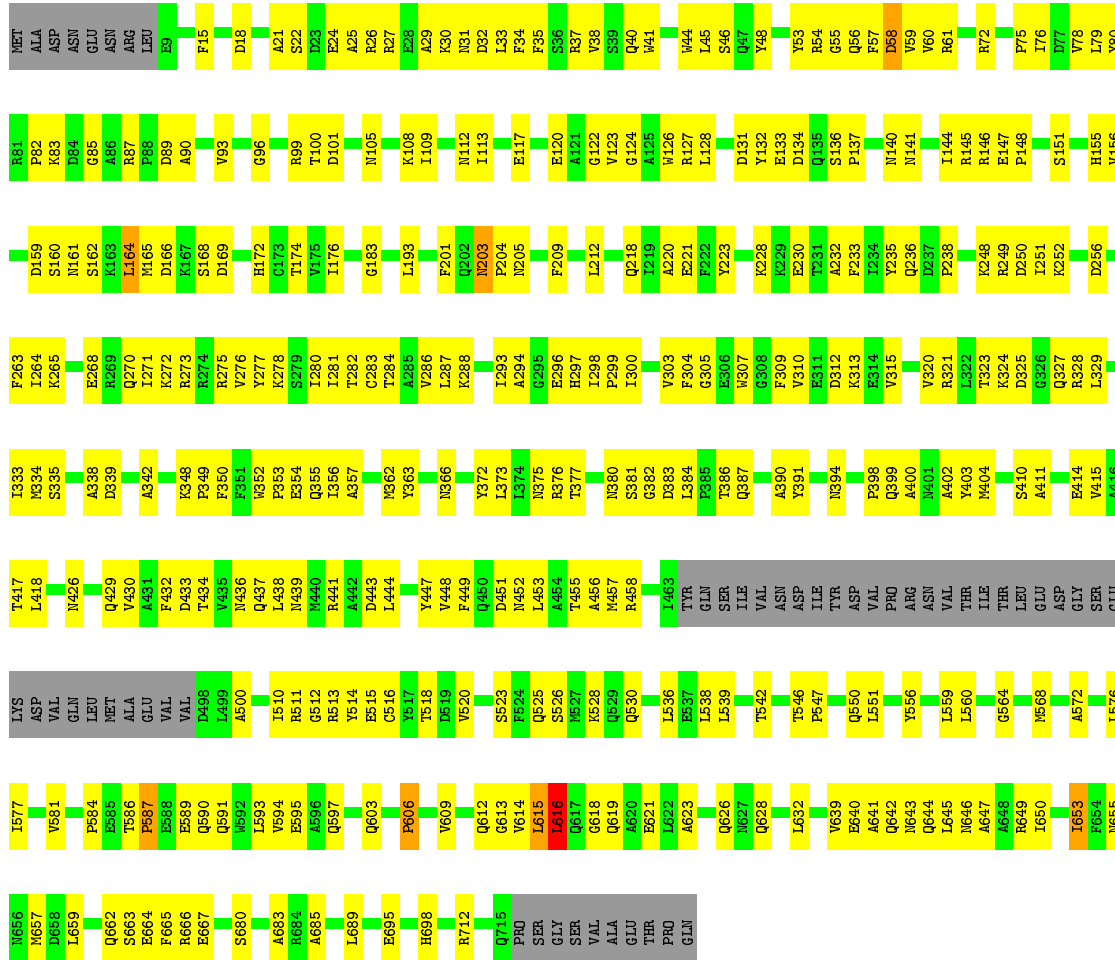


MET	ALA	ASP	ASN	GLU	ASN	ARG	LEU	F9	S10	R11	K13	F14	F15	D18	A21	S22	D23	E24	R26	R27	E28	A29	K30	N31	D32	L33	F34	F35	S36	R37	V38	S39	Q40	N41	D42	D43	N44	S46	Q47	Y48	T49	T50	V53	R54	Q55	Q56	F57	D58	V59	N60	R61	R65	S69		
R72	P75	I76	D77	V78	L79	Y80	R81	P82	K83	G84	G85	R87	P88	D89	A90	V93	G96	R99	T100	D101	M105	H106	C107	K108	A109	I110	V111	I112	I113	A114	E117	Q118	I119	E120	A121	G122	V123	G124	A220	E221	L128	L128	D131	Y132	E133	D134	Q135	S136	P137	M140					
M141	Q142	V143	I144	R145	E146	E147	P148	I149	H150	A151	A152	H155	V156	D159	S160	M161	K163	L164	D166	M165	A166	K167	S168	D169	A170	R171	H172	C173	T174	V175	I176	G183	L193	F201	Q202	N203	P204	N205	L212	A220	E221	Y223	K228	L228	D131	Y132	E133	W307	G308	F309	V310	A232	F233	L234	Y235
Q236	S245	K248	R249	D250	I251	K252	D256	A259	F263	K265	E268	R269	I271	K272	R273	R274	R275	V276	Y277	K278	S279	I280	T281	T282	C283	T284	A285	V286	L287	K288	L293	A294	G295	E296	H297	I298	P299	I300	V303	F304	G305	E306	W307	G308	F309	V310	E311	D312	K313						
E314	V315	V320	R321	L322	T323	K324	D325	A326	M334	S335	F336	N337	A338	D339	V341	A342	K348	P349	F350	F351	N352	P353	E354	Q355	I356	A357	E360	H361	K362	Y363	N366	Y372	L373	L374	N375	R376	P299	R376	T377	G382	D383	L384	P385	T386	Q387	A390	Y391	N394							
P398	Q399	A400	M401	A402	Y403	M404	S410	A411	E414	V415	A416	T417	L418	M426	Q429	F432	D433	V434	M435	M436	Q437	L438	M439	E442	D443	L444	Y447	V448	F449	Q450	D451	M452	L453	A454	T455	A456	M457	R458	I463	TYR	GLN	SER	ILE	VAL	ASN	ASP	ILE	TYR	ASP	VAL					
PRO	ARG	ASN	VAL	THR	THR	THR	GLU	ASP	GLY	SER	GLU	LYS	ASP	VAL	GLM	LEU	MET	ALA	VAL	D498	I510	R511	G512	R513	Y514	E515	C516	F517	T518	D519	V520	S523	F524	Q525	S526	M527	K528	Q529	Q530	M531	R532	L536	F537	L538	L539	T542	T546	P547	Q550	L551					



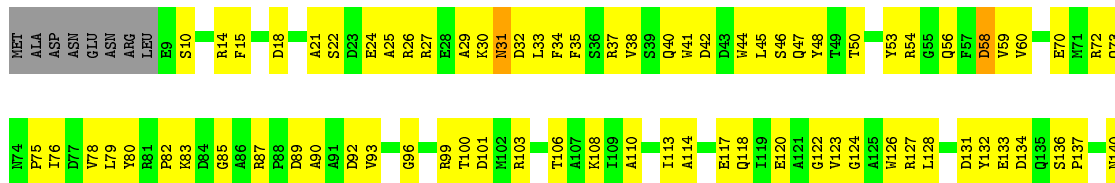
• Molecule 1: Portal protein

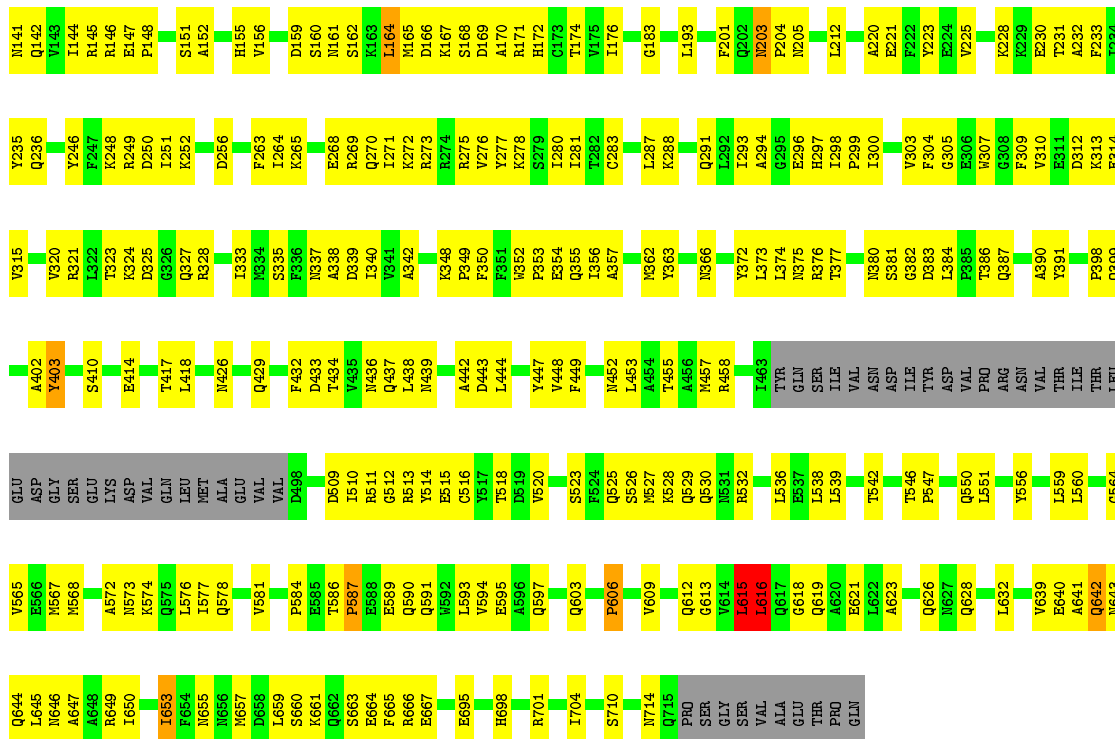
Chain D: 50% 42% 7%



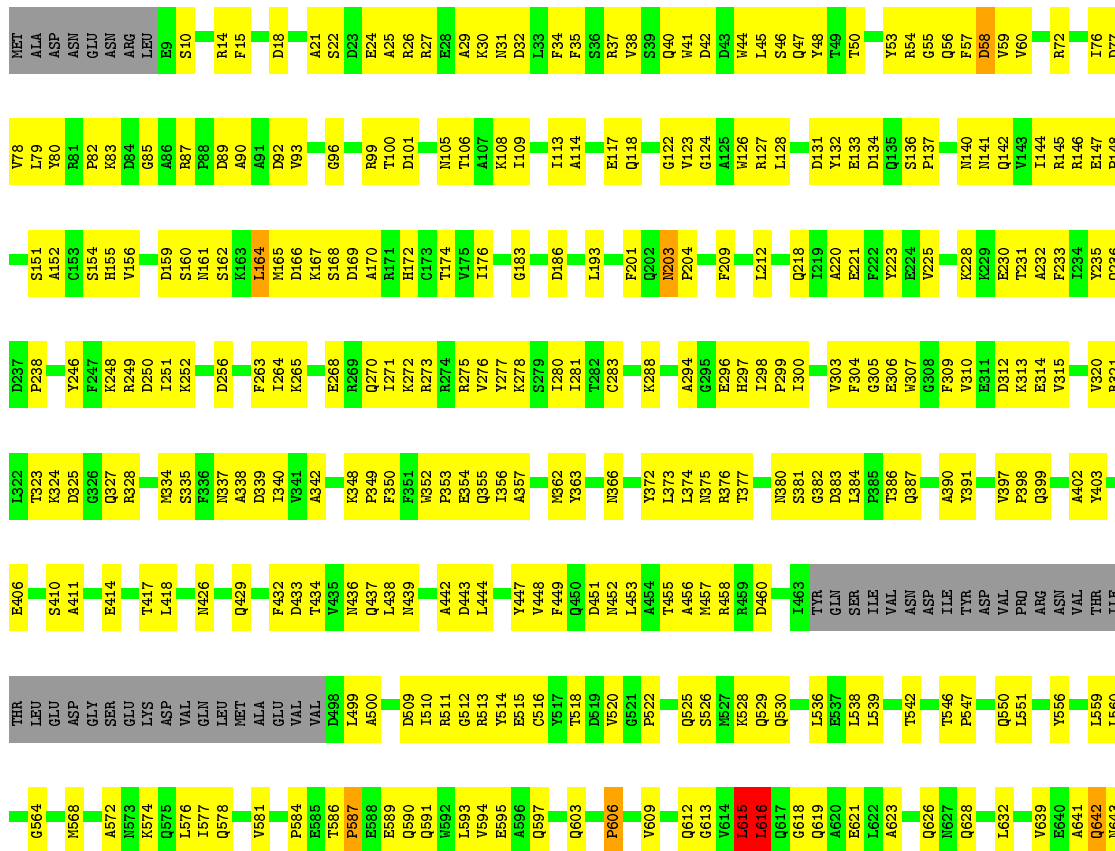
• Molecule 1: Portal protein

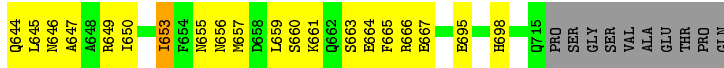
Chain E: 48% 43% 7%



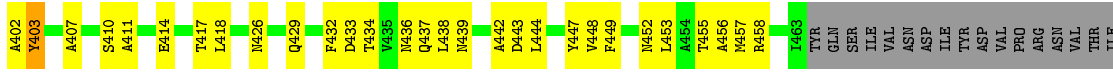
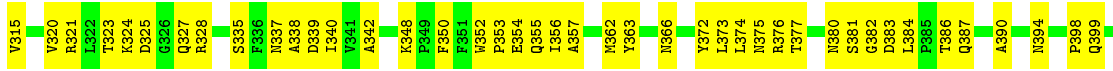
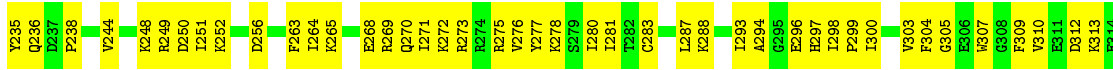


• Molecule 1: Portal protein

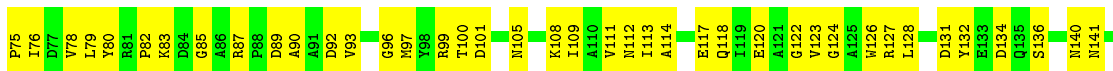


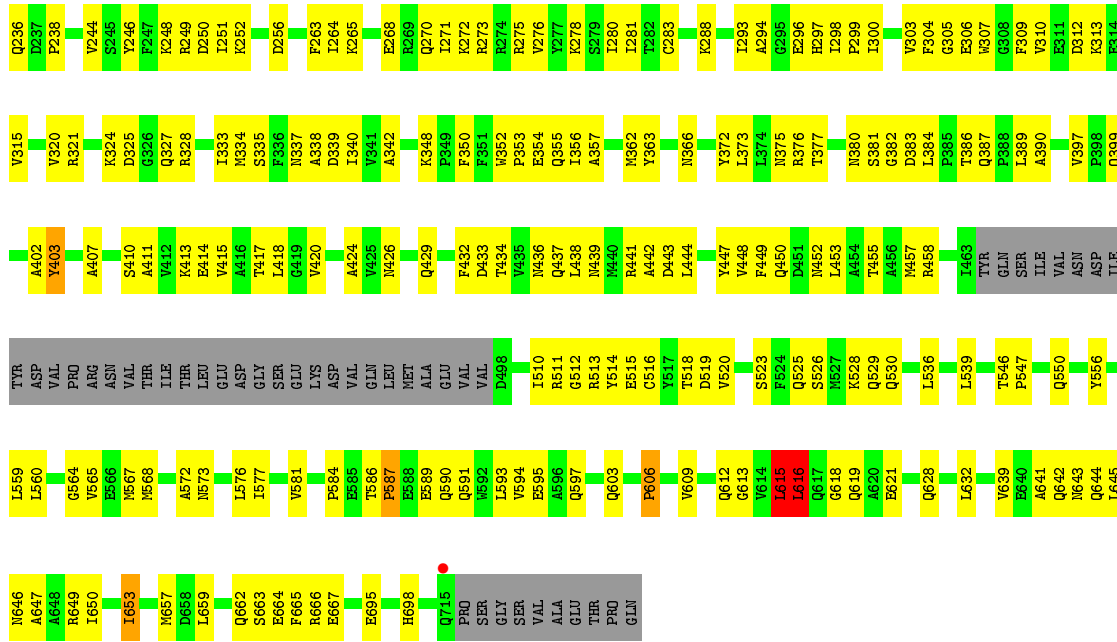


• Molecule 1: Portal protein

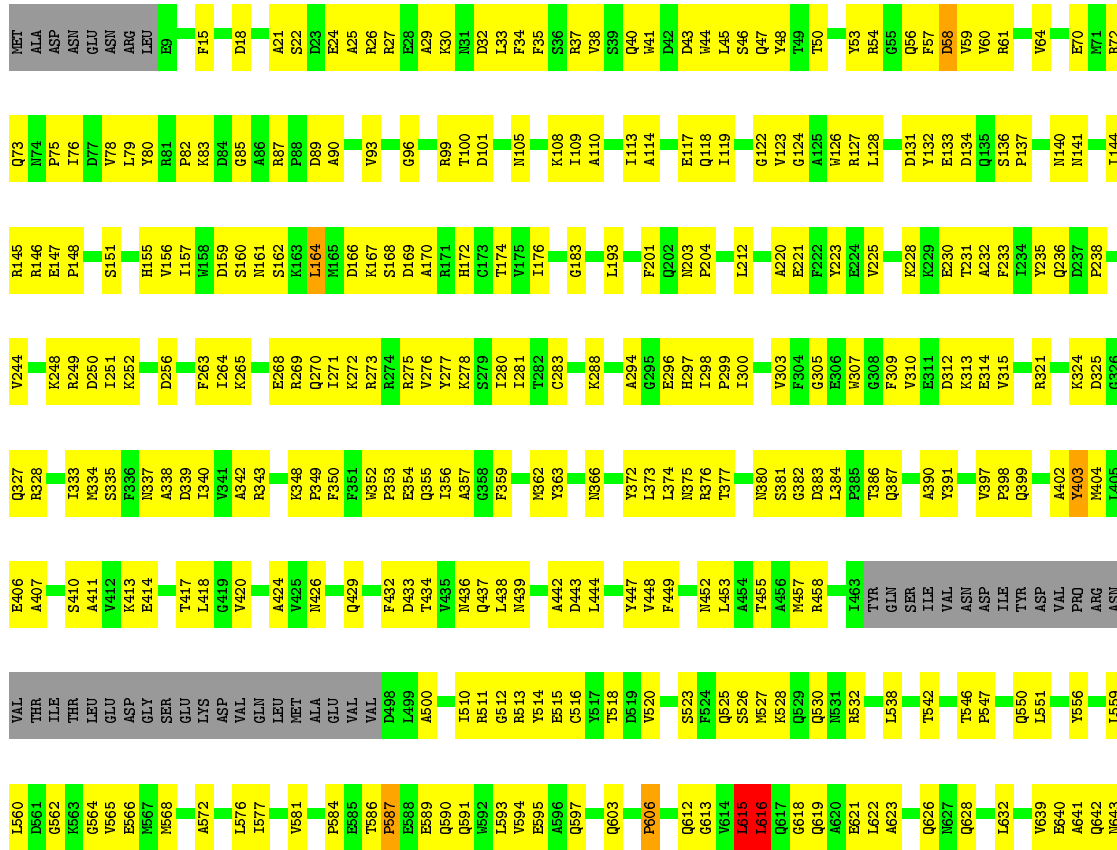


• Molecule 1: Portal protein



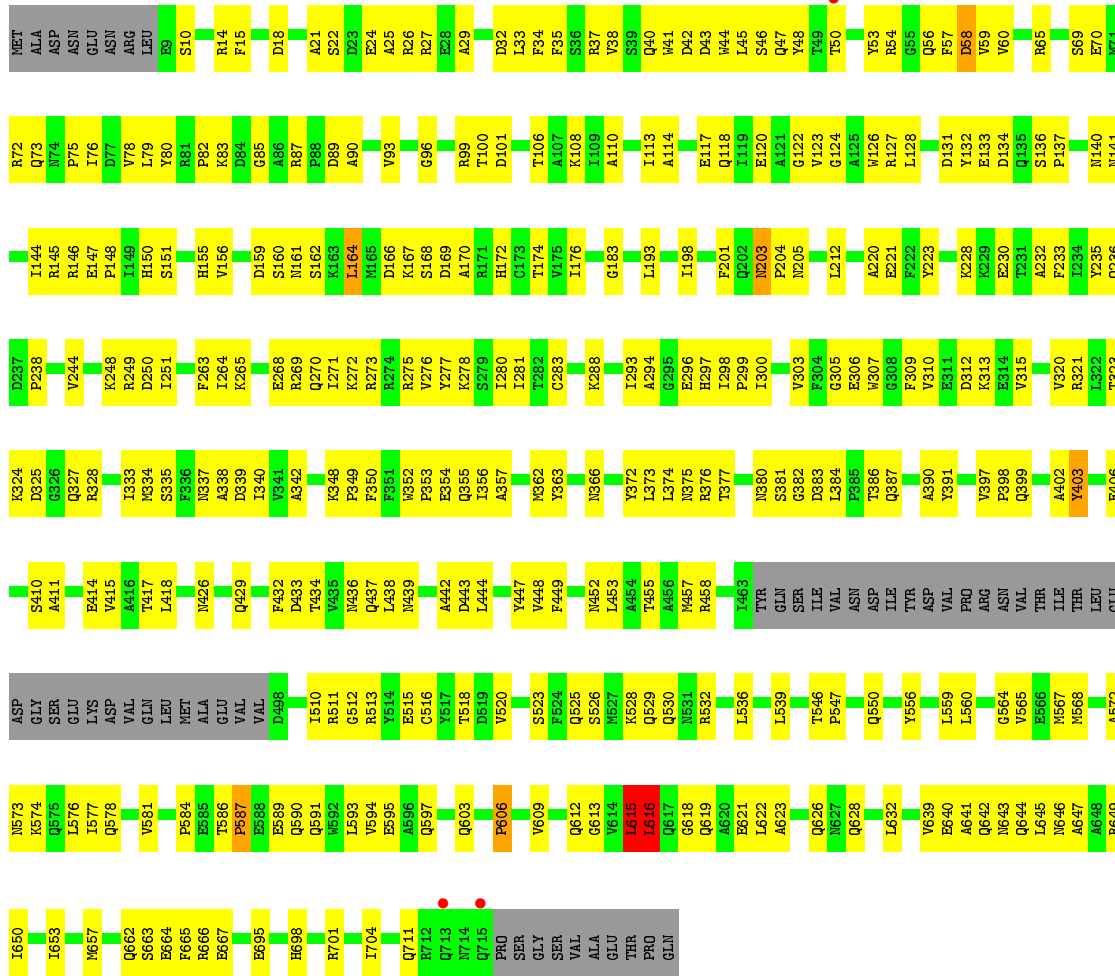


● Molecule 1: Portal protein

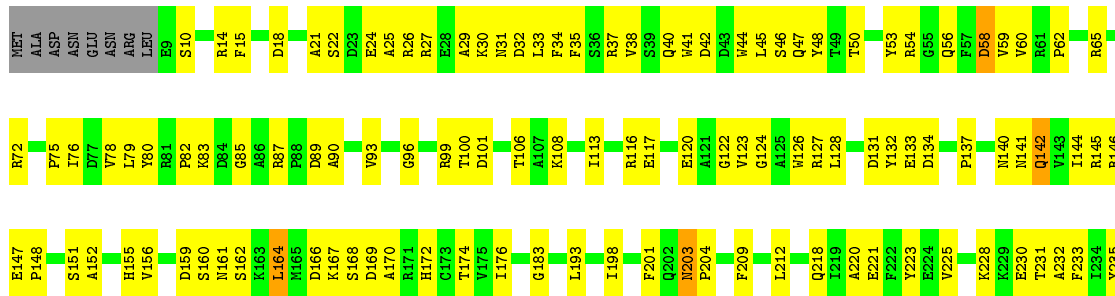




• Molecule 1: Portal protein



• Molecule 1: Portal protein



R649	I650	A651	E652	I653	F654	M655	M656	M657	D658	L659	Q662	S663	E664	F665	R666	E667	T671	F675	E695	H698	R701	I704	Q715	PRO	SER	GLY	SER	SER	VAL	ALA	GLU	THR	PRO	GLN
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4 Data and refinement statistics

Property	Value	Source
Space group	I 4	Depositor
Cell constants a, b, c, α , β , γ	409.04Å 409.04Å 260.00Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	14.99 – 7.00 14.99 – 7.00	Depositor EDS
% Data completeness (in resolution range)	99.0 (14.99-7.00) 99.1 (14.99-7.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.07 (at 7.36Å)	Xtrriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
R, R_{free}	0.239 , 0.260 0.239 , 0.260	Depositor DCC
R_{free} test set	1561 reflections (5.19%)	wwPDB-VP
Wilson B-factor (Å ²)	214.7	Xtrriage
Anisotropy	0.009	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.14 , -10.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtrriage
Estimated twinning fraction	0.045 for -k,-h,-l	Xtrriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	64536	wwPDB-VP
Average B, all atoms (Å ²)	118.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.93% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	A	0.28	0/5482	0.58	3/7429 (0.0%)
1	B	0.28	0/5482	0.59	2/7429 (0.0%)
1	C	0.28	0/5482	0.59	2/7429 (0.0%)
1	D	0.28	0/5482	0.57	3/7429 (0.0%)
1	E	0.27	0/5482	0.58	2/7429 (0.0%)
1	F	0.27	0/5482	0.58	3/7429 (0.0%)
1	G	0.27	0/5482	0.58	2/7429 (0.0%)
1	H	0.27	0/5482	0.57	2/7429 (0.0%)
1	I	0.28	0/5482	0.59	3/7429 (0.0%)
1	J	0.29	1/5482 (0.0%)	0.59	3/7429 (0.0%)
1	K	0.30	1/5482 (0.0%)	0.59	2/7429 (0.0%)
1	L	0.29	1/5482 (0.0%)	0.58	3/7429 (0.0%)
All	All	0.28	3/65784 (0.0%)	0.58	30/89148 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	4
1	B	0	4
1	C	0	3
1	D	0	4
1	E	0	3
1	F	0	4
1	G	0	4
1	H	0	3
1	I	0	3
1	J	0	3
1	K	0	4
1	L	0	3
All	All	0	42

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	198	ILE	C-N	8.54	1.50	1.34
1	J	198	ILE	C-N	8.02	1.49	1.34
1	L	198	ILE	C-N	6.80	1.47	1.34

All (30) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	616	LEU	CA-CB-CG	13.49	146.32	115.30
1	J	616	LEU	CA-CB-CG	13.31	145.92	115.30
1	C	615	LEU	CA-CB-CG	12.84	144.83	115.30
1	B	616	LEU	CA-CB-CG	12.57	144.21	115.30
1	I	615	LEU	CA-CB-CG	12.56	144.19	115.30
1	B	615	LEU	CA-CB-CG	12.46	143.96	115.30
1	F	615	LEU	CA-CB-CG	12.45	143.93	115.30
1	E	615	LEU	CA-CB-CG	12.36	143.72	115.30
1	K	615	LEU	CA-CB-CG	12.34	143.69	115.30
1	J	615	LEU	CA-CB-CG	12.26	143.49	115.30
1	K	616	LEU	CA-CB-CG	12.20	143.35	115.30
1	A	615	LEU	CA-CB-CG	12.12	143.17	115.30
1	A	616	LEU	CA-CB-CG	12.11	143.16	115.30
1	G	615	LEU	CA-CB-CG	12.05	143.02	115.30
1	C	616	LEU	CA-CB-CG	11.96	142.81	115.30
1	E	616	LEU	CA-CB-CG	11.84	142.52	115.30
1	L	615	LEU	CA-CB-CG	11.83	142.51	115.30
1	F	616	LEU	CA-CB-CG	11.65	142.10	115.30
1	H	615	LEU	CA-CB-CG	11.46	141.65	115.30
1	G	616	LEU	CA-CB-CG	11.10	140.82	115.30
1	H	616	LEU	CA-CB-CG	11.05	140.73	115.30
1	D	616	LEU	CA-CB-CG	10.79	140.13	115.30
1	L	616	LEU	CA-CB-CG	10.30	138.98	115.30
1	D	615	LEU	CA-CB-CG	9.18	136.41	115.30
1	F	616	LEU	CB-CG-CD1	6.51	122.07	111.00
1	J	616	LEU	CB-CG-CD1	6.50	122.05	111.00
1	I	616	LEU	CB-CG-CD1	6.36	121.82	111.00
1	L	616	LEU	CB-CG-CD1	6.20	121.55	111.00
1	D	616	LEU	CB-CG-CD1	5.88	120.99	111.00
1	A	616	LEU	CB-CG-CD1	5.07	119.62	111.00

There are no chirality outliers.

All (42) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	212	LEU	Peptide
1	A	456	ALA	Peptide
1	A	59	VAL	Peptide
1	A	606	PRO	Peptide
1	B	212	LEU	Peptide
1	B	456	ALA	Peptide
1	B	59	VAL	Peptide
1	B	606	PRO	Peptide
1	C	212	LEU	Peptide
1	C	59	VAL	Peptide
1	C	606	PRO	Peptide
1	D	212	LEU	Peptide
1	D	456	ALA	Peptide
1	D	59	VAL	Peptide
1	D	606	PRO	Peptide
1	E	212	LEU	Peptide
1	E	59	VAL	Peptide
1	E	606	PRO	Peptide
1	F	212	LEU	Peptide
1	F	456	ALA	Peptide
1	F	59	VAL	Peptide
1	F	606	PRO	Peptide
1	G	212	LEU	Peptide
1	G	456	ALA	Peptide
1	G	59	VAL	Peptide
1	G	606	PRO	Peptide
1	H	212	LEU	Peptide
1	H	59	VAL	Peptide
1	H	606	PRO	Peptide
1	I	212	LEU	Peptide
1	I	59	VAL	Peptide
1	I	606	PRO	Peptide
1	J	212	LEU	Peptide
1	J	59	VAL	Peptide
1	J	606	PRO	Peptide
1	K	212	LEU	Peptide
1	K	456	ALA	Peptide
1	K	59	VAL	Peptide
1	K	606	PRO	Peptide
1	L	212	LEU	Peptide
1	L	59	VAL	Peptide
1	L	606	PRO	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5378	0	5178	281	0
1	B	5378	0	5178	286	0
1	C	5378	0	5178	295	0
1	D	5378	0	5178	276	0
1	E	5378	0	5178	290	0
1	F	5378	0	5178	278	0
1	G	5378	0	5178	277	0
1	H	5378	0	5178	279	0
1	I	5378	0	5178	280	0
1	J	5378	0	5178	280	0
1	K	5378	0	5178	287	0
1	L	5378	0	5178	283	0
All	All	64536	0	62136	3062	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 24.

All (3062) 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:J:220:ALA:HB3	1:J:281:ILE:O	1.55	1.05
1:B:220:ALA:HB3	1:B:281:ILE:O	1.58	1.03
1:E:220:ALA:HB3	1:E:281:ILE:O	1.58	1.02
1:I:220:ALA:HB3	1:I:281:ILE:O	1.59	1.02
1:K:220:ALA:HB3	1:K:281:ILE:O	1.59	1.01
1:H:220:ALA:HB3	1:H:281:ILE:O	1.60	1.01
1:C:220:ALA:HB3	1:C:281:ILE:O	1.61	1.01
1:A:220:ALA:HB3	1:A:281:ILE:O	1.60	1.00
1:L:220:ALA:HB3	1:L:281:ILE:O	1.61	0.99
1:G:220:ALA:HB3	1:G:281:ILE:O	1.61	0.99
1:A:613:GLY:HA2	1:A:616:LEU:HD12	1.47	0.97
1:F:220:ALA:HB3	1:F:281:ILE:O	1.63	0.97
1:D:220:ALA:HB3	1:D:281:ILE:O	1.66	0.95
1:H:613:GLY:HA2	1:H:616:LEU:HD13	1.49	0.94
1:B:613:GLY:HA2	1:B:616:LEU:HD13	1.49	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:613:GLY:HA2	1:G:616:LEU:HD13	1.53	0.91
1:D:577:ILE:HG12	1:D:597:GLN:HE22	1.36	0.91
1:L:577:ILE:HG12	1:L:597:GLN:HE22	1.36	0.90
1:A:352:TRP:HB3	1:B:376:ARG:HD2	1.53	0.89
1:H:352:TRP:HB3	1:I:376:ARG:HD2	1.55	0.89
1:C:577:ILE:HG12	1:C:597:GLN:HE22	1.37	0.89
1:A:376:ARG:HD2	1:L:352:TRP:HB3	1.55	0.89
1:I:577:ILE:HG12	1:I:597:GLN:HE22	1.37	0.88
1:B:352:TRP:HB3	1:C:376:ARG:HD2	1.54	0.88
1:I:352:TRP:HB3	1:J:376:ARG:HD2	1.57	0.87
1:G:352:TRP:HB3	1:H:376:ARG:HD2	1.54	0.86
1:I:434:THR:O	1:I:437:GLN:HB3	1.75	0.86
1:D:352:TRP:HB3	1:E:376:ARG:HD2	1.57	0.86
1:K:352:TRP:HB3	1:L:376:ARG:HD2	1.57	0.86
1:B:577:ILE:HG12	1:B:597:GLN:HE22	1.39	0.86
1:G:577:ILE:HG12	1:G:597:GLN:HE22	1.39	0.85
1:C:352:TRP:HB3	1:D:376:ARG:HD2	1.58	0.85
1:F:352:TRP:HB3	1:G:376:ARG:HD2	1.59	0.85
1:J:352:TRP:HB3	1:K:376:ARG:HD2	1.59	0.85
1:D:355:GLN:HG2	1:E:376:ARG:HH12	1.39	0.85
1:E:352:TRP:HB3	1:F:376:ARG:HD2	1.57	0.85
1:A:353:PRO:HD2	1:B:376:ARG:HB2	1.60	0.84
1:B:353:PRO:HD2	1:C:376:ARG:HB2	1.60	0.84
1:E:577:ILE:HG12	1:E:597:GLN:HE22	1.42	0.84
1:B:307:TRP:HA	1:B:315:VAL:O	1.78	0.83
1:B:621:GLU:OE2	1:C:619:GLN:NE2	2.11	0.83
1:H:248:LYS:HD2	1:H:251:ILE:HB	1.61	0.83
1:H:612:GLN:HA	1:H:615:LEU:HD13	1.61	0.83
1:J:577:ILE:HG12	1:J:597:GLN:HE22	1.44	0.83
1:A:577:ILE:HG12	1:A:597:GLN:HE22	1.44	0.83
1:F:577:ILE:HG12	1:F:597:GLN:HE22	1.43	0.83
1:K:577:ILE:HG12	1:K:597:GLN:HE22	1.44	0.83
1:H:72:ARG:HD2	1:H:108:LYS:HE2	1.60	0.82
1:A:621:GLU:OE2	1:B:619:GLN:NE2	2.11	0.82
1:L:296:GLU:HB2	1:L:449:PHE:HD2	1.44	0.82
1:E:621:GLU:OE2	1:F:619:GLN:NE2	2.13	0.81
1:F:621:GLU:OE2	1:G:619:GLN:NE2	2.13	0.81
1:C:613:GLY:HA2	1:C:616:LEU:CD1	2.10	0.81
1:H:621:GLU:OE2	1:I:619:GLN:NE2	2.14	0.81
1:J:621:GLU:OE2	1:K:619:GLN:NE2	2.12	0.81
1:I:353:PRO:HD2	1:J:376:ARG:HB2	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:619:GLN:NE2	1:L:621:GLU:OE2	2.13	0.81
1:F:248:LYS:HD2	1:F:251:ILE:HB	1.63	0.81
1:D:72:ARG:HD2	1:D:108:LYS:HE2	1.61	0.81
1:I:72:ARG:HD2	1:I:108:LYS:HE2	1.62	0.81
1:C:546:THR:HB	1:C:550:GLN:HE22	1.45	0.80
1:H:577:ILE:HG12	1:H:597:GLN:HE22	1.43	0.80
1:L:307:TRP:HA	1:L:315:VAL:O	1.80	0.80
1:H:613:GLY:HA2	1:H:616:LEU:CD1	2.10	0.80
1:B:72:ARG:HD2	1:B:108:LYS:HE2	1.61	0.80
1:D:128:LEU:HA	1:D:145:ARG:O	1.81	0.80
1:D:251:ILE:HD11	1:D:273:ARG:HH22	1.47	0.80
1:D:621:GLU:OE2	1:E:619:GLN:NE2	2.14	0.80
1:G:25:ALA:O	1:G:29:ALA:HB2	1.81	0.80
1:I:621:GLU:OE2	1:J:619:GLN:NE2	2.14	0.80
1:K:621:GLU:OE2	1:L:619:GLN:NE2	2.14	0.80
1:I:127:ARG:O	1:I:146:ARG:HA	1.82	0.80
1:G:307:TRP:HA	1:G:315:VAL:O	1.82	0.80
1:G:621:GLU:OE2	1:H:619:GLN:NE2	2.14	0.80
1:H:353:PRO:HD2	1:I:376:ARG:HB2	1.63	0.79
1:B:248:LYS:HD2	1:B:251:ILE:HB	1.65	0.79
1:I:248:LYS:HD2	1:I:251:ILE:HB	1.64	0.79
1:J:353:PRO:HD2	1:K:376:ARG:HB2	1.64	0.79
1:J:355:GLN:HG2	1:K:376:ARG:HH12	1.47	0.79
1:D:296:GLU:HB2	1:D:449:PHE:HD2	1.47	0.79
1:F:546:THR:HB	1:F:550:GLN:HE22	1.48	0.79
1:H:434:THR:O	1:H:437:GLN:HB3	1.82	0.79
1:K:546:THR:HB	1:K:550:GLN:HE22	1.48	0.79
1:C:621:GLU:OE2	1:D:619:GLN:NE2	2.16	0.79
1:B:128:LEU:HA	1:B:145:ARG:O	1.83	0.78
1:J:127:ARG:O	1:J:146:ARG:HA	1.83	0.78
1:L:72:ARG:HD2	1:L:108:LYS:HE2	1.65	0.78
1:E:353:PRO:HD2	1:F:376:ARG:HB2	1.63	0.78
1:A:296:GLU:HB2	1:A:449:PHE:HD2	1.48	0.78
1:G:612:GLN:HA	1:G:615:LEU:HD13	1.66	0.78
1:H:127:ARG:O	1:H:146:ARG:HA	1.84	0.78
1:K:127:ARG:O	1:K:146:ARG:HA	1.84	0.78
1:D:25:ALA:O	1:D:29:ALA:HB2	1.84	0.78
1:I:355:GLN:HG2	1:J:376:ARG:HH12	1.48	0.78
1:G:72:ARG:HD2	1:G:108:LYS:HE2	1.66	0.77
1:B:127:ARG:O	1:B:146:ARG:HA	1.83	0.77
1:D:546:THR:HB	1:D:550:GLN:HE22	1.47	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:72:ARG:HD2	1:E:108:LYS:HE2	1.66	0.77
1:H:355:GLN:HG2	1:I:376:ARG:HH12	1.47	0.77
1:I:25:ALA:O	1:I:29:ALA:HB2	1.84	0.77
1:J:248:LYS:HD2	1:J:251:ILE:HB	1.65	0.77
1:A:248:LYS:HD2	1:A:251:ILE:HB	1.64	0.77
1:D:127:ARG:O	1:D:146:ARG:HA	1.84	0.77
1:A:546:THR:HB	1:A:550:GLN:HE22	1.50	0.77
1:B:355:GLN:HG2	1:C:376:ARG:HH12	1.48	0.77
1:L:128:LEU:HA	1:L:145:ARG:O	1.85	0.77
1:I:546:THR:HB	1:I:550:GLN:HE22	1.48	0.77
1:A:376:ARG:HH12	1:L:355:GLN:HG2	1.50	0.77
1:C:307:TRP:HA	1:C:315:VAL:O	1.83	0.77
1:E:25:ALA:O	1:E:29:ALA:HB2	1.85	0.77
1:C:248:LYS:HD2	1:C:251:ILE:HB	1.66	0.77
1:F:72:ARG:HD2	1:F:108:LYS:HE2	1.67	0.77
1:L:127:ARG:O	1:L:146:ARG:HA	1.85	0.77
1:K:307:TRP:HA	1:K:315:VAL:O	1.85	0.76
1:K:353:PRO:HD2	1:L:376:ARG:HB2	1.65	0.76
1:A:72:ARG:HD2	1:A:108:LYS:HE2	1.67	0.76
1:D:434:THR:O	1:D:437:GLN:HB3	1.86	0.76
1:F:355:GLN:HG2	1:G:376:ARG:HH12	1.50	0.76
1:G:546:THR:HB	1:G:550:GLN:HE22	1.51	0.76
1:E:546:THR:HB	1:E:550:GLN:HE22	1.50	0.76
1:I:128:LEU:HA	1:I:145:ARG:O	1.85	0.76
1:F:296:GLU:HB2	1:F:449:PHE:HD2	1.49	0.76
1:K:248:LYS:HD2	1:K:251:ILE:HB	1.65	0.76
1:A:25:ALA:O	1:A:29:ALA:HB2	1.85	0.76
1:D:248:LYS:HD2	1:D:251:ILE:HB	1.68	0.76
1:F:127:ARG:O	1:F:146:ARG:HA	1.85	0.76
1:G:248:LYS:HD2	1:G:251:ILE:HB	1.66	0.76
1:F:128:LEU:HA	1:F:145:ARG:O	1.86	0.76
1:E:355:GLN:HG2	1:F:376:ARG:HH12	1.50	0.76
1:B:546:THR:HB	1:B:550:GLN:HE22	1.50	0.76
1:H:296:GLU:HB2	1:H:449:PHE:HD2	1.48	0.76
1:L:248:LYS:HD2	1:L:251:ILE:HB	1.67	0.76
1:L:546:THR:HB	1:L:550:GLN:HE22	1.50	0.76
1:E:310:VAL:HG22	1:F:40:GLN:HG3	1.68	0.76
1:J:25:ALA:O	1:J:29:ALA:HB2	1.86	0.76
1:F:251:ILE:HD11	1:F:273:ARG:HH22	1.49	0.75
1:E:296:GLU:HB2	1:E:449:PHE:HD2	1.50	0.75
1:H:546:THR:HB	1:H:550:GLN:HE22	1.49	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:127:ARG:O	1:A:146:ARG:HA	1.86	0.75
1:I:296:GLU:HB2	1:I:449:PHE:HD2	1.50	0.75
1:B:122:GLY:O	1:B:305:GLY:N	2.18	0.75
1:F:25:ALA:O	1:F:29:ALA:HB2	1.86	0.75
1:J:546:THR:HB	1:J:550:GLN:HE22	1.50	0.75
1:E:248:LYS:HD2	1:E:251:ILE:HB	1.68	0.75
1:K:613:GLY:HA2	1:K:616:LEU:HD13	1.68	0.75
1:A:663:SER:HA	1:A:666:ARG:HE	1.52	0.75
1:A:355:GLN:HG2	1:B:376:ARG:HH12	1.51	0.75
1:C:25:ALA:O	1:C:29:ALA:HB2	1.86	0.75
1:B:25:ALA:O	1:B:29:ALA:HB2	1.86	0.74
1:D:122:GLY:O	1:D:305:GLY:N	2.19	0.74
1:J:613:GLY:HA2	1:J:616:LEU:HD12	1.68	0.74
1:J:251:ILE:HD11	1:J:273:ARG:HH22	1.51	0.74
1:K:128:LEU:HA	1:K:145:ARG:O	1.87	0.74
1:B:296:GLU:HB2	1:B:449:PHE:HD2	1.52	0.74
1:G:127:ARG:O	1:G:146:ARG:HA	1.86	0.74
1:G:353:PRO:HD2	1:H:376:ARG:HB2	1.68	0.74
1:I:251:ILE:HD11	1:I:273:ARG:HH22	1.53	0.74
1:L:25:ALA:O	1:L:29:ALA:HB2	1.86	0.74
1:A:325:ASP:OD2	1:B:56:GLN:N	2.21	0.74
1:C:663:SER:HA	1:C:666:ARG:HE	1.52	0.74
1:E:663:SER:HA	1:E:666:ARG:HE	1.51	0.74
1:K:296:GLU:HB2	1:K:449:PHE:HD2	1.50	0.74
1:C:251:ILE:HD11	1:C:273:ARG:HH22	1.53	0.74
1:C:296:GLU:HB2	1:C:449:PHE:HD2	1.53	0.74
1:J:434:THR:O	1:J:437:GLN:HB3	1.87	0.74
1:L:122:GLY:O	1:L:305:GLY:N	2.19	0.74
1:F:307:TRP:HA	1:F:315:VAL:O	1.88	0.74
1:A:307:TRP:HA	1:A:315:VAL:O	1.86	0.74
1:E:122:GLY:O	1:E:305:GLY:N	2.19	0.74
1:E:127:ARG:O	1:E:146:ARG:HA	1.87	0.74
1:J:307:TRP:HA	1:J:315:VAL:O	1.86	0.74
1:K:25:ALA:O	1:K:29:ALA:HB2	1.87	0.74
1:C:122:GLY:O	1:C:305:GLY:N	2.20	0.73
1:C:356:ILE:HG13	1:C:357:ALA:H	1.53	0.73
1:F:122:GLY:O	1:F:305:GLY:N	2.19	0.73
1:F:37:ARG:NH1	1:F:48:TYR:OH	2.22	0.73
1:F:511:ARG:HD3	1:F:513:ARG:HH22	1.54	0.73
1:G:296:GLU:HB2	1:G:449:PHE:HD2	1.53	0.73
1:J:663:SER:HA	1:J:666:ARG:HE	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:663:SER:HA	1:B:666:ARG:HE	1.54	0.73
1:D:353:PRO:HD2	1:E:376:ARG:HB2	1.68	0.73
1:G:251:ILE:HD11	1:G:273:ARG:HH22	1.54	0.73
1:H:38:VAL:HG21	1:H:324:LYS:HD2	1.69	0.73
1:L:356:ILE:HG13	1:L:357:ALA:H	1.53	0.73
1:G:128:LEU:HA	1:G:145:ARG:O	1.88	0.73
1:E:294:ALA:HA	1:E:453:LEU:HD23	1.71	0.73
1:K:663:SER:HA	1:K:666:ARG:HE	1.54	0.73
1:L:294:ALA:HA	1:L:453:LEU:HD23	1.71	0.73
1:B:612:GLN:HA	1:B:615:LEU:HD13	1.71	0.72
1:C:127:ARG:O	1:C:146:ARG:HA	1.89	0.72
1:D:307:TRP:HA	1:D:315:VAL:O	1.89	0.72
1:H:128:LEU:HA	1:H:145:ARG:O	1.89	0.72
1:J:296:GLU:HB2	1:J:449:PHE:HD2	1.53	0.72
1:E:307:TRP:HA	1:E:315:VAL:O	1.88	0.72
1:F:294:ALA:HA	1:F:453:LEU:HD23	1.71	0.72
1:F:663:SER:HA	1:F:666:ARG:HE	1.52	0.72
1:K:72:ARG:HD2	1:K:108:LYS:HE2	1.70	0.72
1:G:294:ALA:HA	1:G:453:LEU:HD23	1.71	0.72
1:H:25:ALA:O	1:H:29:ALA:HB2	1.88	0.72
1:I:58:ASP:HA	1:I:327:GLN:OE1	1.90	0.72
1:K:434:THR:O	1:K:437:GLN:HB3	1.90	0.72
1:H:586:THR:HG22	1:H:590:GLN:HE22	1.53	0.72
1:I:325:ASP:OD2	1:J:56:GLN:N	2.22	0.72
1:J:122:GLY:O	1:J:305:GLY:N	2.20	0.72
1:E:128:LEU:HA	1:E:145:ARG:O	1.90	0.72
1:C:434:THR:O	1:C:437:GLN:HB3	1.90	0.72
1:D:663:SER:HA	1:D:666:ARG:HE	1.52	0.72
1:L:663:SER:HA	1:L:666:ARG:HE	1.54	0.72
1:H:294:ALA:HA	1:H:453:LEU:HD23	1.72	0.72
1:I:122:GLY:O	1:I:305:GLY:N	2.20	0.72
1:K:355:GLN:HG2	1:L:376:ARG:HH12	1.55	0.72
1:C:128:LEU:HA	1:C:145:ARG:O	1.88	0.72
1:F:612:GLN:HA	1:F:615:LEU:HD13	1.72	0.72
1:D:325:ASP:OD2	1:E:56:GLN:N	2.23	0.71
1:F:356:ILE:HG13	1:F:357:ALA:H	1.55	0.71
1:K:612:GLN:HA	1:K:615:LEU:HD13	1.72	0.71
1:C:353:PRO:HD2	1:D:376:ARG:HB2	1.72	0.71
1:F:586:THR:HG22	1:F:590:GLN:HE22	1.54	0.71
1:H:650:ILE:HA	1:H:653:ILE:HD12	1.73	0.71
1:B:434:THR:O	1:B:437:GLN:HB3	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:307:TRP:HA	1:I:315:VAL:O	1.90	0.71
1:C:38:VAL:HG21	1:C:324:LYS:HD2	1.70	0.71
1:F:434:THR:O	1:F:437:GLN:HB3	1.89	0.71
1:L:251:ILE:HD11	1:L:273:ARG:HH22	1.56	0.71
1:C:325:ASP:OD2	1:D:56:GLN:N	2.24	0.71
1:A:122:GLY:O	1:A:305:GLY:N	2.21	0.71
1:K:586:THR:HG22	1:K:590:GLN:HE22	1.56	0.71
1:A:128:LEU:HA	1:A:145:ARG:O	1.90	0.71
1:C:58:ASP:HA	1:C:327:GLN:OE1	1.91	0.71
1:G:270:GLN:NE2	1:G:271:ILE:O	2.24	0.71
1:J:612:GLN:HA	1:J:615:LEU:HD13	1.73	0.71
1:K:294:ALA:HA	1:K:453:LEU:HD23	1.70	0.71
1:E:251:ILE:HD11	1:E:273:ARG:HH22	1.55	0.70
1:A:164:LEU:HD12	1:A:166:ASP:HB3	1.73	0.70
1:G:663:SER:HA	1:G:666:ARG:HE	1.55	0.70
1:A:356:ILE:HG13	1:A:357:ALA:H	1.57	0.70
1:K:356:ILE:HG13	1:K:357:ALA:H	1.56	0.70
1:C:72:ARG:HD2	1:C:108:LYS:HE2	1.71	0.70
1:I:612:GLN:HA	1:I:615:LEU:HD13	1.74	0.70
1:E:356:ILE:HG13	1:E:357:ALA:H	1.56	0.70
1:B:325:ASP:OD2	1:C:56:GLN:N	2.24	0.70
1:F:650:ILE:HA	1:F:653:ILE:HD12	1.73	0.70
1:G:434:THR:O	1:G:437:GLN:HB3	1.90	0.70
1:A:294:ALA:HA	1:A:453:LEU:HD23	1.71	0.70
1:D:356:ILE:HG13	1:D:357:ALA:H	1.57	0.70
1:H:663:SER:HA	1:H:666:ARG:HE	1.55	0.70
1:K:122:GLY:O	1:K:305:GLY:N	2.22	0.70
1:L:339:ASP:HA	1:L:342:ALA:HB3	1.74	0.70
1:A:251:ILE:HD11	1:A:273:ARG:HH22	1.57	0.70
1:H:122:GLY:O	1:H:305:GLY:N	2.22	0.70
1:J:128:LEU:HA	1:J:145:ARG:O	1.90	0.70
1:F:613:GLY:HA2	1:F:616:LEU:HD12	1.73	0.70
1:L:434:THR:O	1:L:437:GLN:HB3	1.92	0.70
1:A:434:THR:O	1:A:437:GLN:HB3	1.91	0.69
1:C:612:GLN:HA	1:C:615:LEU:HD13	1.72	0.69
1:E:325:ASP:OD2	1:F:56:GLN:N	2.25	0.69
1:F:325:ASP:OD2	1:G:56:GLN:N	2.25	0.69
1:F:353:PRO:HD2	1:G:376:ARG:HB2	1.73	0.69
1:J:38:VAL:HG21	1:J:324:LYS:HD2	1.74	0.69
1:E:613:GLY:HA2	1:E:616:LEU:HD13	1.73	0.69
1:B:58:ASP:HA	1:B:327:GLN:OE1	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:134:ASP:OD1	1:C:141:ASN:ND2	2.21	0.69
1:G:38:VAL:HG21	1:G:324:LYS:HD2	1.74	0.69
1:I:294:ALA:HA	1:I:453:LEU:HD23	1.72	0.69
1:J:72:ARG:HD2	1:J:108:LYS:HE2	1.73	0.69
1:I:356:ILE:HG13	1:I:357:ALA:H	1.57	0.69
1:C:113:ILE:HG13	1:C:148:PRO:HB2	1.74	0.69
1:H:325:ASP:OD2	1:I:56:GLN:N	2.24	0.69
1:B:586:THR:HG22	1:B:590:GLN:HE22	1.56	0.69
1:D:160:SER:OG	1:D:172:HIS:ND1	2.21	0.69
1:D:294:ALA:HA	1:D:453:LEU:HD23	1.74	0.69
1:I:663:SER:HA	1:I:666:ARG:HE	1.55	0.69
1:A:376:ARG:HB2	1:L:353:PRO:HD2	1.72	0.69
1:A:650:ILE:HA	1:A:653:ILE:HD12	1.74	0.69
1:D:58:ASP:HA	1:D:327:GLN:OE1	1.92	0.69
1:D:586:THR:HG22	1:D:590:GLN:HE22	1.55	0.69
1:K:251:ILE:HD11	1:K:273:ARG:HH22	1.57	0.69
1:J:325:ASP:OD2	1:K:56:GLN:N	2.26	0.69
1:A:87:ARG:HG2	1:A:89:ASP:H	1.57	0.69
1:E:58:ASP:HA	1:E:327:GLN:OE1	1.92	0.69
1:F:160:SER:OG	1:F:172:HIS:ND1	2.23	0.69
1:G:511:ARG:HD3	1:G:513:ARG:HH22	1.58	0.69
1:J:160:SER:OG	1:J:172:HIS:ND1	2.22	0.69
1:A:586:THR:HG22	1:A:590:GLN:HE22	1.58	0.69
1:C:613:GLY:O	1:C:616:LEU:HD13	1.93	0.69
1:G:356:ILE:HG13	1:G:357:ALA:H	1.58	0.69
1:B:251:ILE:HD11	1:B:273:ARG:HH22	1.59	0.68
1:H:356:ILE:HG13	1:H:357:ALA:H	1.56	0.68
1:H:37:ARG:NH1	1:H:48:TYR:OH	2.26	0.68
1:I:613:GLY:HA2	1:I:616:LEU:HD12	1.75	0.68
1:J:356:ILE:HG13	1:J:357:ALA:H	1.56	0.68
1:A:612:GLN:HA	1:A:615:LEU:HD13	1.75	0.68
1:C:711:GLN:OE1	1:D:712:ARG:NH1	2.26	0.68
1:G:122:GLY:O	1:G:305:GLY:N	2.23	0.68
1:H:134:ASP:OD1	1:H:141:ASN:ND2	2.22	0.68
1:B:356:ILE:HG13	1:B:357:ALA:H	1.58	0.68
1:C:613:GLY:HA2	1:C:616:LEU:HD12	1.74	0.68
1:C:58:ASP:HB3	1:C:60:VAL:HG23	1.75	0.68
1:J:586:THR:HG22	1:J:590:GLN:HE22	1.59	0.68
1:L:58:ASP:HA	1:L:327:GLN:OE1	1.93	0.68
1:C:270:GLN:NE2	1:C:271:ILE:O	2.26	0.68
1:D:270:GLN:NE2	1:D:271:ILE:O	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:160:SER:OG	1:I:172:HIS:ND1	2.20	0.68
1:A:56:GLN:N	1:L:325:ASP:OD2	2.26	0.68
1:B:650:ILE:HA	1:B:653:ILE:HD12	1.74	0.68
1:G:510:ILE:HG12	1:G:512:GLY:H	1.58	0.68
1:J:294:ALA:HA	1:J:453:LEU:HD23	1.75	0.68
1:E:80:TYR:HD1	1:E:518:THR:HA	1.60	0.68
1:E:93:VAL:O	1:E:96:GLY:N	2.27	0.68
1:K:325:ASP:OD2	1:L:56:GLN:N	2.27	0.68
1:B:339:ASP:HA	1:B:342:ALA:HB3	1.76	0.67
1:G:25:ALA:O	1:G:29:ALA:CB	2.42	0.67
1:H:164:LEU:HD12	1:H:166:ASP:HB3	1.76	0.67
1:B:25:ALA:O	1:B:29:ALA:CB	2.41	0.67
1:B:294:ALA:HA	1:B:453:LEU:HD23	1.74	0.67
1:H:307:TRP:HA	1:H:315:VAL:O	1.93	0.67
1:K:510:ILE:HG12	1:K:512:GLY:H	1.59	0.67
1:K:160:SER:OG	1:K:172:HIS:ND1	2.21	0.67
1:L:93:VAL:O	1:L:96:GLY:N	2.28	0.67
1:D:339:ASP:HA	1:D:342:ALA:HB3	1.75	0.67
1:F:164:LEU:HD12	1:F:166:ASP:HB3	1.75	0.67
1:F:58:ASP:HB3	1:F:60:VAL:HG23	1.77	0.67
1:A:25:ALA:O	1:A:29:ALA:CB	2.42	0.67
1:B:58:ASP:HB3	1:B:60:VAL:HG23	1.77	0.67
1:H:25:ALA:O	1:H:29:ALA:CB	2.42	0.67
1:C:294:ALA:HA	1:C:453:LEU:HD23	1.76	0.67
1:F:58:ASP:HA	1:F:327:GLN:OE1	1.93	0.67
1:H:251:ILE:HD11	1:H:273:ARG:HH22	1.59	0.67
1:G:355:GLN:HG2	1:H:376:ARG:HH12	1.59	0.67
1:J:22:SER:O	1:J:26:ARG:HG2	1.95	0.67
1:B:22:SER:O	1:B:26:ARG:HG2	1.94	0.67
1:F:38:VAL:HG21	1:F:324:LYS:HD2	1.77	0.67
1:J:161:ASN:HD21	1:K:183:GLY:HA3	1.59	0.67
1:J:650:ILE:HA	1:J:653:ILE:HD12	1.77	0.67
1:K:58:ASP:HB3	1:K:60:VAL:HG23	1.76	0.67
1:D:58:ASP:HB3	1:D:60:VAL:HG23	1.77	0.67
1:H:87:ARG:HG2	1:H:89:ASP:H	1.60	0.67
1:B:270:GLN:NE2	1:B:271:ILE:O	2.27	0.66
1:A:40:GLN:HG3	1:L:310:VAL:HG22	1.76	0.66
1:L:38:VAL:HG21	1:L:324:LYS:HD2	1.77	0.66
1:C:79:LEU:H	1:C:520:VAL:HA	1.60	0.66
1:E:25:ALA:O	1:E:29:ALA:CB	2.43	0.66
1:G:93:VAL:O	1:G:96:GLY:N	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:556:TYR:HB3	1:C:572:ALA:HB2	1.77	0.66
1:G:58:ASP:HA	1:G:327:GLN:OE1	1.95	0.66
1:J:134:ASP:OD1	1:J:141:ASN:ND2	2.23	0.66
1:L:556:TYR:HB3	1:L:572:ALA:HB2	1.78	0.66
1:A:270:GLN:NE2	1:A:271:ILE:O	2.28	0.66
1:D:164:LEU:HD12	1:D:166:ASP:HB3	1.77	0.66
1:E:586:THR:HG22	1:E:590:GLN:HE22	1.59	0.66
1:I:25:ALA:O	1:I:29:ALA:CB	2.42	0.66
1:J:37:ARG:NH1	1:J:48:TYR:OH	2.28	0.66
1:K:310:VAL:HG22	1:L:40:GLN:HG3	1.77	0.66
1:B:613:GLY:HA2	1:B:616:LEU:CD1	2.22	0.66
1:C:164:LEU:HD12	1:C:166:ASP:HB3	1.76	0.66
1:B:310:VAL:HG22	1:C:40:GLN:HG3	1.77	0.66
1:D:25:ALA:O	1:D:29:ALA:CB	2.42	0.66
1:E:510:ILE:HG12	1:E:512:GLY:H	1.60	0.66
1:F:22:SER:O	1:F:26:ARG:HG2	1.96	0.66
1:H:457:MET:O	1:H:458:ARG:HG2	1.96	0.66
1:K:339:ASP:HA	1:K:342:ALA:HB3	1.78	0.66
1:I:586:THR:HG22	1:I:590:GLN:HE22	1.60	0.66
1:J:457:MET:O	1:J:458:ARG:HG2	1.96	0.66
1:K:134:ASP:OD1	1:K:141:ASN:ND2	2.26	0.66
1:K:511:ARG:HD3	1:K:513:ARG:HH22	1.60	0.66
1:E:434:THR:O	1:E:437:GLN:HB3	1.95	0.66
1:F:113:ILE:HG13	1:F:148:PRO:HB2	1.77	0.66
1:F:510:ILE:HG12	1:F:512:GLY:H	1.61	0.66
1:G:87:ARG:HG2	1:G:89:ASP:H	1.61	0.66
1:E:164:LEU:HD12	1:E:166:ASP:HB3	1.76	0.66
1:E:37:ARG:NH1	1:E:48:TYR:OH	2.29	0.66
1:I:58:ASP:HB3	1:I:60:VAL:HG23	1.77	0.65
1:F:457:MET:O	1:F:458:ARG:HG2	1.97	0.65
1:I:134:ASP:OD1	1:I:141:ASN:ND2	2.25	0.65
1:C:25:ALA:O	1:C:29:ALA:CB	2.44	0.65
1:F:25:ALA:O	1:F:29:ALA:CB	2.44	0.65
1:G:325:ASP:OD2	1:H:56:GLN:N	2.27	0.65
1:K:164:LEU:HD12	1:K:166:ASP:HB3	1.77	0.65
1:L:586:THR:HG22	1:L:590:GLN:HE22	1.61	0.65
1:E:160:SER:OG	1:E:172:HIS:ND1	2.22	0.65
1:E:650:ILE:HA	1:E:653:ILE:HD12	1.77	0.65
1:D:457:MET:O	1:D:458:ARG:HG2	1.96	0.65
1:H:22:SER:O	1:H:26:ARG:HG2	1.97	0.65
1:I:87:ARG:HG2	1:I:89:ASP:H	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:457:MET:O	1:L:458:ARG:HG2	1.96	0.65
1:F:221:GLU:HG2	1:F:280:ILE:HG12	1.79	0.65
1:K:22:SER:O	1:K:26:ARG:HG2	1.96	0.65
1:K:58:ASP:HA	1:K:327:GLN:OE1	1.95	0.65
1:A:22:SER:O	1:A:26:ARG:HG2	1.96	0.65
1:A:93:VAL:O	1:A:96:GLY:N	2.30	0.65
1:E:83:LYS:HB2	1:E:515:GLU:HB3	1.78	0.65
1:J:58:ASP:HB3	1:J:60:VAL:HG23	1.79	0.65
1:A:510:ILE:HG12	1:A:512:GLY:H	1.62	0.65
1:H:93:VAL:O	1:H:96:GLY:N	2.30	0.65
1:C:160:SER:OG	1:C:172:HIS:ND1	2.23	0.65
1:E:577:ILE:HD12	1:E:584:PRO:HB3	1.79	0.65
1:H:221:GLU:HG2	1:H:280:ILE:HG12	1.78	0.65
1:H:613:GLY:CA	1:H:616:LEU:HD13	2.26	0.65
1:C:362:MET:HA	1:C:366:ASN:HB2	1.79	0.64
1:I:22:SER:O	1:I:26:ARG:HG2	1.96	0.64
1:I:38:VAL:HG21	1:I:324:LYS:HD2	1.79	0.64
1:J:25:ALA:O	1:J:29:ALA:CB	2.45	0.64
1:A:83:LYS:HB2	1:A:515:GLU:HB3	1.78	0.64
1:C:457:MET:O	1:C:458:ARG:HG2	1.97	0.64
1:E:22:SER:O	1:E:26:ARG:HG2	1.97	0.64
1:K:270:GLN:NE2	1:K:271:ILE:O	2.30	0.64
1:A:457:MET:O	1:A:458:ARG:HG2	1.98	0.64
1:C:586:THR:HG22	1:C:590:GLN:HE22	1.61	0.64
1:F:87:ARG:HG2	1:F:89:ASP:H	1.62	0.64
1:G:58:ASP:HB3	1:G:60:VAL:HG23	1.78	0.64
1:L:650:ILE:HA	1:L:653:ILE:HD12	1.78	0.64
1:C:510:ILE:HG12	1:C:512:GLY:H	1.62	0.64
1:D:22:SER:O	1:D:26:ARG:HG2	1.96	0.64
1:F:577:ILE:HG12	1:F:597:GLN:NE2	2.13	0.64
1:K:650:ILE:HA	1:K:653:ILE:HD12	1.77	0.64
1:A:183:GLY:HA3	1:L:161:ASN:HD21	1.63	0.64
1:L:25:ALA:O	1:L:29:ALA:CB	2.44	0.64
1:A:58:ASP:HB3	1:A:60:VAL:HG23	1.79	0.64
1:C:93:VAL:O	1:C:96:GLY:N	2.31	0.64
1:E:79:LEU:H	1:E:520:VAL:HA	1.62	0.64
1:G:556:TYR:HB3	1:G:572:ALA:HB2	1.78	0.64
1:G:310:VAL:HG22	1:H:40:GLN:HG3	1.79	0.64
1:H:452:ASN:OD1	1:H:453:LEU:N	2.31	0.64
1:C:87:ARG:HG2	1:C:89:ASP:H	1.63	0.64
1:E:612:GLN:HA	1:E:615:LEU:HD13	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:134:ASP:OD1	1:F:141:ASN:ND2	2.26	0.64
1:F:270:GLN:NE2	1:F:271:ILE:O	2.31	0.64
1:L:433:ASP:O	1:L:437:GLN:N	2.30	0.64
1:B:164:LEU:HD12	1:B:166:ASP:HB3	1.79	0.64
1:C:452:ASN:OD1	1:C:453:LEU:N	2.31	0.64
1:D:510:ILE:HG12	1:D:512:GLY:H	1.63	0.64
1:G:433:ASP:O	1:G:437:GLN:N	2.29	0.64
1:B:457:MET:O	1:B:458:ARG:HG2	1.98	0.64
1:B:510:ILE:HG12	1:B:512:GLY:H	1.63	0.64
1:B:87:ARG:HG2	1:B:89:ASP:H	1.62	0.64
1:D:113:ILE:HG13	1:D:148:PRO:HB2	1.80	0.64
1:J:58:ASP:HA	1:J:327:GLN:OE1	1.97	0.64
1:K:25:ALA:O	1:K:29:ALA:CB	2.45	0.64
1:K:457:MET:O	1:K:458:ARG:HG2	1.98	0.64
1:L:510:ILE:HG12	1:L:512:GLY:H	1.61	0.64
1:A:96:GLY:O	1:A:100:THR:OG1	2.09	0.64
1:F:353:PRO:HA	1:G:373:LEU:HD23	1.80	0.64
1:A:38:VAL:HG21	1:A:324:LYS:HD2	1.79	0.64
1:D:134:ASP:OD1	1:D:141:ASN:ND2	2.26	0.64
1:E:457:MET:O	1:E:458:ARG:HG2	1.97	0.64
1:H:577:ILE:HG12	1:H:597:GLN:NE2	2.11	0.64
1:K:87:ARG:HG2	1:K:89:ASP:H	1.63	0.64
1:D:650:ILE:HA	1:D:653:ILE:HD12	1.80	0.63
1:I:270:GLN:NE2	1:I:271:ILE:O	2.31	0.63
1:B:93:VAL:O	1:B:96:GLY:N	2.31	0.63
1:D:79:LEU:H	1:D:520:VAL:HA	1.62	0.63
1:D:93:VAL:O	1:D:96:GLY:N	2.30	0.63
1:D:96:GLY:O	1:D:100:THR:OG1	2.08	0.63
1:E:58:ASP:HB3	1:E:60:VAL:HG23	1.79	0.63
1:F:93:VAL:O	1:F:96:GLY:N	2.31	0.63
1:G:586:THR:HG22	1:G:590:GLN:HE22	1.61	0.63
1:H:58:ASP:HB3	1:H:60:VAL:HG23	1.80	0.63
1:I:339:ASP:HA	1:I:342:ALA:HB3	1.81	0.63
1:I:510:ILE:HG12	1:I:512:GLY:H	1.63	0.63
1:K:38:VAL:HG21	1:K:324:LYS:HD2	1.80	0.63
1:A:79:LEU:H	1:A:520:VAL:HA	1.62	0.63
1:C:353:PRO:HA	1:D:373:LEU:HD23	1.80	0.63
1:E:117:GLU:HB3	1:E:123:VAL:HG23	1.81	0.63
1:G:437:GLN:HG2	1:G:520:VAL:HG21	1.80	0.63
1:I:457:MET:O	1:I:458:ARG:HG2	1.97	0.63
1:J:93:VAL:O	1:J:96:GLY:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:511:ARG:HD3	1:L:513:ARG:HH22	1.63	0.63
1:G:457:MET:O	1:G:458:ARG:HG2	1.98	0.63
1:L:134:ASP:OD1	1:L:141:ASN:ND2	2.24	0.63
1:L:80:TYR:HD1	1:L:518:THR:HA	1.64	0.63
1:B:309:PHE:HB3	1:B:312:ASP:HA	1.81	0.63
1:H:339:ASP:HA	1:H:342:ALA:HB3	1.80	0.63
1:L:164:LEU:HD12	1:L:166:ASP:HB3	1.79	0.63
1:L:58:ASP:HB3	1:L:60:VAL:HG23	1.79	0.63
1:L:79:LEU:H	1:L:520:VAL:HA	1.62	0.63
1:J:164:LEU:HD12	1:J:166:ASP:HB3	1.81	0.63
1:J:511:ARG:HD3	1:J:513:ARG:HH22	1.62	0.63
1:L:87:ARG:HG2	1:L:89:ASP:H	1.62	0.63
1:D:38:VAL:HG21	1:D:324:LYS:HD2	1.80	0.63
1:G:339:ASP:HA	1:G:342:ALA:HB3	1.80	0.63
1:J:362:MET:HA	1:J:366:ASN:HB2	1.80	0.63
1:A:339:ASP:HA	1:A:342:ALA:HB3	1.79	0.63
1:C:577:ILE:HD12	1:C:584:PRO:HB3	1.81	0.63
1:F:297:HIS:CD2	1:F:298:ILE:HG13	2.33	0.63
1:G:22:SER:O	1:G:26:ARG:HG2	1.98	0.63
1:L:250:ASP:OD1	1:L:251:ILE:N	2.32	0.63
1:L:613:GLY:O	1:L:616:LEU:HD12	1.99	0.63
1:C:80:TYR:HD1	1:C:518:THR:HA	1.64	0.63
1:D:250:ASP:OD1	1:D:251:ILE:N	2.32	0.63
1:D:452:ASN:OD1	1:D:453:LEU:N	2.32	0.63
1:E:452:ASN:OD1	1:E:453:LEU:N	2.32	0.63
1:G:650:ILE:HA	1:G:653:ILE:HD12	1.81	0.63
1:H:418:LEU:HD23	1:H:429:GLN:HB3	1.81	0.63
1:A:577:ILE:HG12	1:A:597:GLN:NE2	2.13	0.62
1:B:250:ASP:OD1	1:B:251:ILE:N	2.32	0.62
1:F:339:ASP:HA	1:F:342:ALA:HB3	1.81	0.62
1:H:96:GLY:O	1:H:100:THR:OG1	2.08	0.62
1:K:577:ILE:HD12	1:K:584:PRO:HB3	1.81	0.62
1:A:666:ARG:NH1	1:L:667:GLU:HG2	2.14	0.62
1:A:83:LYS:HE2	1:A:85:GLY:HA3	1.81	0.62
1:B:160:SER:OG	1:B:172:HIS:ND1	2.23	0.62
1:B:276:VAL:HG22	1:B:296:GLU:HA	1.81	0.62
1:E:38:VAL:HG21	1:E:324:LYS:HD2	1.79	0.62
1:H:310:VAL:HG22	1:I:40:GLN:HG3	1.80	0.62
1:J:577:ILE:HG12	1:J:597:GLN:NE2	2.15	0.62
1:L:612:GLN:HA	1:L:615:LEU:HD13	1.81	0.62
1:A:41:TRP:CH2	1:A:44:TRP:HB2	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:452:ASN:OD1	1:B:453:LEU:N	2.32	0.62
1:B:437:GLN:HG2	1:B:520:VAL:HG21	1.82	0.62
1:C:250:ASP:OD1	1:C:251:ILE:N	2.32	0.62
1:K:37:ARG:NH1	1:K:48:TYR:OH	2.29	0.62
1:L:22:SER:O	1:L:26:ARG:HG2	2.00	0.62
1:L:83:LYS:HE2	1:L:85:GLY:HA3	1.82	0.62
1:A:297:HIS:CD2	1:A:298:ILE:HG13	2.35	0.62
1:C:528:LYS:HZ3	1:C:560:LEU:HD23	1.65	0.62
1:C:355:GLN:HG2	1:D:376:ARG:HH12	1.63	0.62
1:G:113:ILE:HG13	1:G:148:PRO:HB2	1.81	0.62
1:L:37:ARG:NH1	1:L:48:TYR:OH	2.29	0.62
1:E:577:ILE:HG12	1:E:597:GLN:NE2	2.12	0.62
1:F:79:LEU:H	1:F:520:VAL:HA	1.64	0.62
1:G:434:THR:HG22	1:H:108:LYS:HE3	1.81	0.62
1:I:164:LEU:HD12	1:I:166:ASP:HB3	1.80	0.62
1:I:83:LYS:HE2	1:I:85:GLY:HA3	1.80	0.62
1:K:362:MET:HA	1:K:366:ASN:HB2	1.80	0.62
1:B:221:GLU:HG2	1:B:280:ILE:HG12	1.82	0.62
1:H:510:ILE:HG12	1:H:512:GLY:H	1.63	0.62
1:A:160:SER:OG	1:A:172:HIS:ND1	2.22	0.62
1:A:452:ASN:OD1	1:A:453:LEU:N	2.33	0.62
1:A:556:TYR:HB3	1:A:572:ALA:HB2	1.80	0.62
1:C:22:SER:O	1:C:26:ARG:HG2	2.00	0.62
1:C:83:LYS:HE2	1:C:85:GLY:HA3	1.80	0.62
1:E:297:HIS:CD2	1:E:298:ILE:HG13	2.35	0.62
1:E:437:GLN:HG2	1:E:520:VAL:HG21	1.82	0.62
1:G:250:ASP:OD1	1:G:251:ILE:N	2.33	0.62
1:G:321:ARG:HA	1:G:324:LYS:HE2	1.81	0.62
1:H:58:ASP:HA	1:H:327:GLN:OE1	1.98	0.62
1:I:452:ASN:OD1	1:I:453:LEU:N	2.33	0.62
1:I:511:ARG:HD3	1:I:513:ARG:HH22	1.62	0.62
1:J:577:ILE:HD12	1:J:584:PRO:HB3	1.82	0.62
1:J:250:ASP:OD1	1:J:251:ILE:N	2.33	0.62
1:J:297:HIS:CD2	1:J:298:ILE:HG13	2.35	0.62
1:L:113:ILE:HG13	1:L:148:PRO:HB2	1.81	0.62
1:L:362:MET:HA	1:L:366:ASN:HB2	1.80	0.62
1:L:653:ILE:O	1:L:657:MET:HG2	2.00	0.62
1:K:664:GLU:HG3	1:L:659:LEU:HD22	1.80	0.62
1:B:577:ILE:HG12	1:B:597:GLN:NE2	2.13	0.62
1:G:79:LEU:H	1:G:520:VAL:HA	1.65	0.62
1:H:160:SER:OG	1:H:172:HIS:ND1	2.22	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:83:LYS:HB2	1:I:515:GLU:HB3	1.81	0.62
1:J:339:ASP:HA	1:J:342:ALA:HB3	1.82	0.62
1:K:117:GLU:HB3	1:K:123:VAL:HG23	1.81	0.62
1:K:236:GLN:HB2	1:K:265:LYS:HD2	1.81	0.62
1:H:653:ILE:O	1:H:657:MET:HG2	2.00	0.61
1:A:372:TYR:HB3	1:L:350:PHE:CD1	2.35	0.61
1:C:41:TRP:CH2	1:C:44:TRP:HB2	2.34	0.61
1:E:250:ASP:OD1	1:E:251:ILE:N	2.33	0.61
1:H:113:ILE:HG13	1:H:148:PRO:HB2	1.81	0.61
1:I:93:VAL:O	1:I:96:GLY:N	2.33	0.61
1:L:577:ILE:HD12	1:L:584:PRO:HB3	1.81	0.61
1:A:250:ASP:OD1	1:A:251:ILE:N	2.33	0.61
1:B:134:ASP:OD1	1:B:141:ASN:ND2	2.30	0.61
1:C:83:LYS:HB2	1:C:515:GLU:HB3	1.82	0.61
1:J:113:ILE:HG13	1:J:148:PRO:HB2	1.81	0.61
1:L:83:LYS:HB2	1:L:515:GLU:HB3	1.80	0.61
1:A:113:ILE:HG13	1:A:148:PRO:HB2	1.82	0.61
1:A:667:GLU:HG2	1:B:666:ARG:NH1	2.15	0.61
1:A:664:GLU:OE2	1:B:666:ARG:NH2	2.34	0.61
1:C:339:ASP:HA	1:C:342:ALA:HB3	1.81	0.61
1:C:363:TYR:OH	1:C:373:LEU:O	2.15	0.61
1:C:310:VAL:HG22	1:D:40:GLN:HG3	1.83	0.61
1:E:667:GLU:HG2	1:F:666:ARG:NH1	2.14	0.61
1:H:270:GLN:NE2	1:H:271:ILE:O	2.33	0.61
1:H:362:MET:HA	1:H:366:ASN:HB2	1.81	0.61
1:I:297:HIS:CD2	1:I:298:ILE:HG13	2.35	0.61
1:I:577:ILE:HD12	1:I:584:PRO:HB3	1.82	0.61
1:K:221:GLU:HG2	1:K:280:ILE:HG12	1.81	0.61
1:L:270:GLN:NE2	1:L:271:ILE:O	2.33	0.61
1:B:363:TYR:OH	1:B:373:LEU:O	2.14	0.61
1:B:79:LEU:H	1:B:520:VAL:HA	1.64	0.61
1:F:250:ASP:OD1	1:F:251:ILE:N	2.33	0.61
1:H:236:GLN:HB2	1:H:265:LYS:HD2	1.83	0.61
1:K:250:ASP:OD1	1:K:251:ILE:N	2.33	0.61
1:H:83:LYS:HB2	1:H:515:GLU:HB3	1.81	0.61
1:A:434:THR:HG22	1:B:108:LYS:HE3	1.83	0.61
1:A:511:ARG:HD3	1:A:513:ARG:HH22	1.65	0.61
1:E:434:THR:HG22	1:F:108:LYS:HE3	1.82	0.61
1:G:362:MET:HA	1:G:366:ASN:HB2	1.82	0.61
1:H:612:GLN:HA	1:H:615:LEU:CD1	2.31	0.61
1:J:452:ASN:OD1	1:J:453:LEU:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:87:ARG:HG2	1:J:89:ASP:H	1.64	0.61
1:B:297:HIS:CD2	1:B:298:ILE:HG13	2.36	0.61
1:E:113:ILE:HG13	1:E:148:PRO:HB2	1.83	0.61
1:G:134:ASP:OD1	1:G:141:ASN:ND2	2.27	0.61
1:G:297:HIS:CD2	1:G:298:ILE:HG13	2.36	0.61
1:A:134:ASP:OD1	1:A:141:ASN:ND2	2.25	0.61
1:B:434:THR:HG22	1:C:108:LYS:HE3	1.83	0.61
1:C:37:ARG:NH1	1:C:48:TYR:OH	2.33	0.61
1:D:232:ALA:HB1	1:D:268:GLU:HA	1.82	0.61
1:D:362:MET:HA	1:D:366:ASN:HB2	1.83	0.61
1:D:399:GLN:HA	1:D:402:ALA:HB3	1.83	0.61
1:E:350:PHE:N	1:E:390:ALA:O	2.29	0.61
1:F:96:GLY:O	1:F:100:THR:OG1	2.11	0.61
1:G:639:VAL:O	1:G:643:ASN:ND2	2.31	0.61
1:G:96:GLY:O	1:G:100:THR:OG1	2.10	0.61
1:J:510:ILE:HG12	1:J:512:GLY:H	1.64	0.61
1:K:101:ASP:OD2	1:K:144:ILE:HG12	2.00	0.61
1:K:79:LEU:H	1:K:520:VAL:HA	1.65	0.61
1:D:161:ASN:HD21	1:E:183:GLY:HA3	1.64	0.61
1:D:87:ARG:HG2	1:D:89:ASP:H	1.66	0.61
1:K:161:ASN:HD21	1:L:183:GLY:HA3	1.66	0.61
1:L:452:ASN:OD1	1:L:453:LEU:N	2.33	0.61
1:A:58:ASP:HA	1:A:327:GLN:OE1	2.01	0.60
1:I:434:THR:HG21	1:J:72:ARG:HG3	1.82	0.60
1:B:38:VAL:HG21	1:B:324:LYS:HD2	1.83	0.60
1:C:653:ILE:O	1:C:657:MET:HG2	2.01	0.60
1:D:438:LEU:HD11	1:E:108:LYS:HD3	1.83	0.60
1:F:556:TYR:HB3	1:F:572:ALA:HB2	1.83	0.60
1:H:297:HIS:CD2	1:H:298:ILE:HG13	2.35	0.60
1:J:96:GLY:O	1:J:100:THR:OG1	2.10	0.60
1:D:37:ARG:NH1	1:D:48:TYR:OH	2.33	0.60
1:E:603:GLN:O	1:E:606:PRO:HD3	2.01	0.60
1:A:221:GLU:HG2	1:A:280:ILE:HG12	1.81	0.60
1:F:452:ASN:OD1	1:F:453:LEU:N	2.33	0.60
1:K:83:LYS:HB2	1:K:515:GLU:HB3	1.83	0.60
1:C:297:HIS:CD2	1:C:298:ILE:HG13	2.35	0.60
1:I:309:PHE:HB3	1:I:312:ASP:HA	1.83	0.60
1:J:236:GLN:HB2	1:J:265:LYS:HD2	1.84	0.60
1:I:310:VAL:HG22	1:J:40:GLN:HG3	1.83	0.60
1:J:310:VAL:HG22	1:K:40:GLN:HG3	1.84	0.60
1:B:603:GLN:O	1:B:606:PRO:HD3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:653:ILE:O	1:E:657:MET:HG2	2.02	0.60
1:G:164:LEU:HD12	1:G:166:ASP:HB3	1.84	0.60
1:H:250:ASP:OD1	1:H:251:ILE:N	2.34	0.60
1:I:250:ASP:OD1	1:I:251:ILE:N	2.34	0.60
1:J:83:LYS:HB2	1:J:515:GLU:HB3	1.83	0.60
1:K:434:THR:HG22	1:L:108:LYS:HE3	1.83	0.60
1:K:452:ASN:OD1	1:K:453:LEU:N	2.34	0.60
1:K:577:ILE:HG12	1:K:597:GLN:NE2	2.13	0.60
1:A:362:MET:HA	1:A:366:ASN:HB2	1.83	0.60
1:A:577:ILE:HD12	1:A:584:PRO:HB3	1.82	0.60
1:B:426:ASN:O	1:B:429:GLN:NE2	2.34	0.60
1:F:653:ILE:O	1:F:657:MET:HG2	2.02	0.60
1:I:221:GLU:HG2	1:I:280:ILE:HG12	1.83	0.60
1:J:433:ASP:O	1:J:437:GLN:N	2.30	0.60
1:A:526:SER:O	1:A:530:GLN:HG3	2.01	0.60
1:B:362:MET:HA	1:B:366:ASN:HB2	1.84	0.60
1:E:134:ASP:OD1	1:E:141:ASN:ND2	2.24	0.60
1:F:434:THR:HG22	1:G:108:LYS:HE3	1.83	0.60
1:B:37:ARG:NH1	1:B:48:TYR:OH	2.35	0.60
1:C:101:ASP:OD2	1:C:144:ILE:HG12	2.02	0.60
1:C:263:PHE:O	1:C:265:LYS:HG3	2.02	0.60
1:G:452:ASN:OD1	1:G:453:LEU:N	2.35	0.60
1:I:362:MET:HA	1:I:366:ASN:HB2	1.82	0.60
1:B:41:TRP:CH2	1:B:44:TRP:HB2	2.37	0.60
1:D:310:VAL:HG22	1:E:40:GLN:HG3	1.83	0.60
1:F:577:ILE:HD12	1:F:584:PRO:HB3	1.82	0.60
1:H:79:LEU:H	1:H:520:VAL:HA	1.67	0.60
1:L:117:GLU:HB3	1:L:123:VAL:HG23	1.82	0.60
1:B:577:ILE:HD12	1:B:584:PRO:HB3	1.83	0.59
1:B:653:ILE:O	1:B:657:MET:HG2	2.01	0.59
1:E:362:MET:HA	1:E:366:ASN:HB2	1.84	0.59
1:G:577:ILE:HD12	1:G:584:PRO:HB3	1.82	0.59
1:H:321:ARG:HA	1:H:324:LYS:HE2	1.84	0.59
1:I:363:TYR:OH	1:I:373:LEU:O	2.16	0.59
1:J:433:ASP:HA	1:J:436:ASN:HB3	1.84	0.59
1:A:108:LYS:HE3	1:L:434:THR:HG22	1.84	0.59
1:E:526:SER:O	1:E:530:GLN:HG3	2.03	0.59
1:F:350:PHE:HB2	1:F:390:ALA:HB3	1.84	0.59
1:F:433:ASP:O	1:F:437:GLN:N	2.34	0.59
1:F:310:VAL:HG22	1:G:40:GLN:HG3	1.84	0.59
1:J:434:THR:HG22	1:K:108:LYS:HE3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:79:LEU:H	1:J:520:VAL:HA	1.67	0.59
1:K:443:ASP:OD1	1:K:444:LEU:N	2.35	0.59
1:A:236:GLN:HB2	1:A:265:LYS:HD2	1.84	0.59
1:D:410:SER:O	1:D:414:GLU:HG2	2.02	0.59
1:D:526:SER:O	1:D:530:GLN:HG3	2.01	0.59
1:D:603:GLN:O	1:D:606:PRO:HD3	2.02	0.59
1:E:236:GLN:HB2	1:E:265:LYS:HD2	1.84	0.59
1:D:667:GLU:HG2	1:E:666:ARG:NH1	2.18	0.59
1:H:434:THR:HG22	1:I:108:LYS:HE3	1.83	0.59
1:I:161:ASN:HD21	1:J:183:GLY:HA3	1.66	0.59
1:A:399:GLN:HA	1:A:402:ALA:HB3	1.83	0.59
1:C:221:GLU:HG2	1:C:280:ILE:HG12	1.82	0.59
1:D:353:PRO:HA	1:E:373:LEU:HD23	1.85	0.59
1:D:577:ILE:HD12	1:D:584:PRO:HB3	1.84	0.59
1:E:556:TYR:HB3	1:E:572:ALA:HB2	1.84	0.59
1:I:526:SER:O	1:I:530:GLN:HG3	2.02	0.59
1:A:662:GLN:HA	1:A:665:PHE:CD2	2.38	0.59
1:B:80:TYR:HD1	1:B:518:THR:HA	1.67	0.59
1:B:78:VAL:HG22	1:B:520:VAL:HG12	1.82	0.59
1:D:83:LYS:HE2	1:D:85:GLY:HA3	1.83	0.59
1:G:443:ASP:OD1	1:G:444:LEU:N	2.36	0.59
1:H:577:ILE:HD12	1:H:584:PRO:HB3	1.83	0.59
1:I:79:LEU:H	1:I:520:VAL:HA	1.68	0.59
1:J:221:GLU:HG2	1:J:280:ILE:HG12	1.84	0.59
1:L:437:GLN:HG2	1:L:520:VAL:HG21	1.84	0.59
1:L:603:GLN:O	1:L:606:PRO:HD3	2.01	0.59
1:B:232:ALA:HB1	1:B:268:GLU:HA	1.84	0.59
1:B:526:SER:O	1:B:530:GLN:HG3	2.03	0.59
1:C:156:VAL:HA	1:C:174:THR:O	2.02	0.59
1:C:96:GLY:O	1:C:100:THR:OG1	2.11	0.59
1:E:433:ASP:O	1:E:437:GLN:N	2.34	0.59
1:F:363:TYR:OH	1:F:373:LEU:O	2.16	0.59
1:F:443:ASP:OD1	1:F:444:LEU:N	2.36	0.59
1:G:526:SER:O	1:G:530:GLN:HG3	2.03	0.59
1:H:603:GLN:O	1:H:606:PRO:HD3	2.02	0.59
1:J:556:TYR:HB3	1:J:572:ALA:HB2	1.85	0.59
1:K:418:LEU:HD23	1:K:429:GLN:HB3	1.84	0.59
1:L:526:SER:O	1:L:530:GLN:HG3	2.03	0.59
1:A:156:VAL:HA	1:A:174:THR:O	2.03	0.59
1:C:443:ASP:OD1	1:C:444:LEU:N	2.35	0.59
1:H:161:ASN:HD21	1:I:183:GLY:HA3	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:526:SER:O	1:K:530:GLN:HG3	2.03	0.59
1:K:83:LYS:HE2	1:K:85:GLY:HA3	1.85	0.59
1:A:373:LEU:HD23	1:L:353:PRO:HA	1.85	0.59
1:A:443:ASP:OD1	1:A:444:LEU:N	2.36	0.59
1:H:556:TYR:HB3	1:H:572:ALA:HB2	1.85	0.59
1:I:434:THR:HG22	1:J:108:LYS:HE3	1.85	0.59
1:B:350:PHE:CD1	1:C:372:TYR:HB3	2.38	0.59
1:F:117:GLU:HB3	1:F:123:VAL:HG23	1.83	0.59
1:J:526:SER:O	1:J:530:GLN:HG3	2.03	0.59
1:K:410:SER:O	1:K:414:GLU:HG2	2.03	0.59
1:A:433:ASP:O	1:A:437:GLN:N	2.35	0.59
1:B:156:VAL:HA	1:B:174:THR:O	2.02	0.59
1:B:443:ASP:OD1	1:B:444:LEU:N	2.35	0.59
1:C:526:SER:O	1:C:530:GLN:HG3	2.02	0.59
1:D:309:PHE:HB3	1:D:312:ASP:HA	1.85	0.59
1:G:156:VAL:HA	1:G:174:THR:O	2.03	0.59
1:F:350:PHE:CD1	1:G:372:TYR:HB3	2.37	0.59
1:I:113:ILE:HG13	1:I:148:PRO:HB2	1.83	0.59
1:A:375:ASN:OD1	1:A:376:ARG:N	2.36	0.58
1:B:201:PHE:CD1	1:B:283:CYS:HB2	2.38	0.58
1:C:603:GLN:O	1:C:606:PRO:HD3	2.03	0.58
1:D:443:ASP:OD1	1:D:444:LEU:N	2.36	0.58
1:D:653:ILE:O	1:D:657:MET:HG2	2.02	0.58
1:E:41:TRP:CH2	1:E:44:TRP:HB2	2.37	0.58
1:G:83:LYS:HB2	1:G:515:GLU:HB3	1.84	0.58
1:A:363:TYR:OH	1:A:373:LEU:O	2.18	0.58
1:C:613:GLY:HA2	1:C:616:LEU:HD13	1.83	0.58
1:G:618:GLY:O	1:G:621:GLU:HB2	2.03	0.58
1:H:433:ASP:O	1:H:437:GLN:N	2.33	0.58
1:I:356:ILE:HG21	1:J:373:LEU:HD21	1.85	0.58
1:J:375:ASN:OD1	1:J:376:ARG:N	2.36	0.58
1:J:83:LYS:HE2	1:J:85:GLY:HA3	1.85	0.58
1:G:612:GLN:HA	1:G:615:LEU:CD1	2.32	0.58
1:I:653:ILE:O	1:I:657:MET:HG2	2.04	0.58
1:A:310:VAL:HG22	1:B:40:GLN:HG3	1.85	0.58
1:J:603:GLN:O	1:J:606:PRO:HD3	2.03	0.58
1:B:612:GLN:HA	1:B:615:LEU:CD1	2.33	0.58
1:B:83:LYS:HB2	1:B:515:GLU:HB3	1.85	0.58
1:C:589:GLU:O	1:C:593:LEU:HB2	2.04	0.58
1:D:434:THR:HG22	1:E:108:LYS:HE3	1.84	0.58
1:G:83:LYS:HE2	1:G:85:GLY:HA3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:589:GLU:O	1:H:593:LEU:HB2	2.04	0.58
1:I:418:LEU:HD23	1:I:429:GLN:HB3	1.85	0.58
1:K:350:PHE:CD1	1:L:372:TYR:HB3	2.37	0.58
1:L:443:ASP:OD1	1:L:444:LEU:N	2.36	0.58
1:B:117:GLU:HB3	1:B:123:VAL:HG23	1.83	0.58
1:B:618:GLY:O	1:B:621:GLU:HB2	2.03	0.58
1:B:82:PRO:HB3	1:B:90:ALA:HB3	1.86	0.58
1:C:650:ILE:HA	1:C:653:ILE:HD12	1.86	0.58
1:D:613:GLY:O	1:D:616:LEU:HD12	2.04	0.58
1:E:87:ARG:HG2	1:E:89:ASP:H	1.67	0.58
1:F:193:LEU:HD21	1:F:288:LYS:HZ3	1.69	0.58
1:G:653:ILE:O	1:G:657:MET:HG2	2.03	0.58
1:H:526:SER:O	1:H:530:GLN:HG3	2.03	0.58
1:I:556:TYR:HB3	1:I:572:ALA:HB2	1.85	0.58
1:J:29:ALA:O	1:J:33:LEU:HB2	2.04	0.58
1:K:337:ASN:HA	1:K:340:ILE:HD12	1.86	0.58
1:K:618:GLY:O	1:K:621:GLU:HB2	2.03	0.58
1:C:236:GLN:HB2	1:C:265:LYS:HD2	1.85	0.58
1:C:321:ARG:HA	1:C:324:LYS:HE2	1.84	0.58
1:E:339:ASP:HA	1:E:342:ALA:HB3	1.84	0.58
1:D:350:PHE:CD1	1:E:372:TYR:HB3	2.38	0.58
1:F:362:MET:HA	1:F:366:ASN:HB2	1.85	0.58
1:F:526:SER:O	1:F:530:GLN:HG3	2.03	0.58
1:F:667:GLU:HG2	1:G:666:ARG:NH1	2.18	0.58
1:H:399:GLN:HA	1:H:402:ALA:HB3	1.85	0.58
1:A:603:GLN:O	1:A:606:PRO:HD3	2.02	0.58
1:D:639:VAL:O	1:D:643:ASN:ND2	2.37	0.58
1:E:263:PHE:O	1:E:265:LYS:HG3	2.04	0.58
1:H:410:SER:O	1:H:414:GLU:HG2	2.03	0.58
1:I:41:TRP:CH2	1:I:44:TRP:HB2	2.39	0.58
1:J:117:GLU:HB3	1:J:123:VAL:HG23	1.86	0.58
1:L:263:PHE:O	1:L:265:LYS:HG3	2.03	0.58
1:D:263:PHE:O	1:D:265:LYS:HG3	2.03	0.58
1:D:297:HIS:CD2	1:D:298:ILE:HG13	2.39	0.58
1:G:375:ASN:OD1	1:G:376:ARG:N	2.36	0.58
1:G:80:TYR:HD1	1:G:518:THR:HA	1.69	0.58
1:H:350:PHE:CD1	1:I:372:TYR:HB3	2.39	0.58
1:K:297:HIS:CD2	1:K:298:ILE:HG13	2.39	0.58
1:K:375:ASN:OD1	1:K:376:ARG:N	2.35	0.58
1:L:162:SER:HB2	1:L:170:ALA:HB2	1.84	0.58
1:L:639:VAL:O	1:L:643:ASN:ND2	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:434:THR:HG22	1:D:108:LYS:HE3	1.86	0.58
1:C:577:ILE:HG12	1:C:597:GLN:NE2	2.13	0.58
1:D:221:GLU:HG2	1:D:280:ILE:HG12	1.86	0.58
1:D:41:TRP:CH2	1:D:44:TRP:HB2	2.39	0.58
1:I:443:ASP:OD1	1:I:444:LEU:N	2.36	0.58
1:J:350:PHE:CD1	1:K:372:TYR:HB3	2.39	0.58
1:L:236:GLN:HB2	1:L:265:LYS:HD2	1.84	0.58
1:A:653:ILE:O	1:A:657:MET:HG2	2.04	0.57
1:B:375:ASN:OD1	1:B:376:ARG:N	2.37	0.57
1:B:83:LYS:HE2	1:B:85:GLY:HA3	1.85	0.57
1:E:443:ASP:OD1	1:E:444:LEU:N	2.37	0.57
1:G:603:GLN:O	1:G:606:PRO:HD3	2.04	0.57
1:I:399:GLN:HA	1:I:402:ALA:HB3	1.86	0.57
1:K:612:GLN:HA	1:K:615:LEU:CD1	2.34	0.57
1:A:117:GLU:HB3	1:A:123:VAL:HG23	1.86	0.57
1:C:511:ARG:HD3	1:C:513:ARG:HH22	1.68	0.57
1:C:639:VAL:O	1:C:643:ASN:ND2	2.36	0.57
1:D:275:ARG:NH2	1:D:293:ILE:O	2.30	0.57
1:D:80:TYR:HD1	1:D:518:THR:HA	1.69	0.57
1:E:96:GLY:O	1:E:100:THR:OG1	2.10	0.57
1:G:263:PHE:O	1:G:265:LYS:HG3	2.04	0.57
1:J:443:ASP:OD1	1:J:444:LEU:N	2.37	0.57
1:L:399:GLN:HA	1:L:402:ALA:HB3	1.87	0.57
1:A:659:LEU:HD22	1:L:664:GLU:HG3	1.87	0.57
1:A:127:ARG:HB3	1:A:147:GLU:HB2	1.87	0.57
1:B:433:ASP:O	1:B:437:GLN:N	2.31	0.57
1:D:433:ASP:O	1:D:437:GLN:N	2.32	0.57
1:E:511:ARG:HD3	1:E:513:ARG:HH22	1.69	0.57
1:F:603:GLN:O	1:F:606:PRO:HD3	2.05	0.57
1:G:363:TYR:OH	1:G:373:LEU:O	2.18	0.57
1:J:276:VAL:HG22	1:J:296:GLU:HA	1.85	0.57
1:K:162:SER:HB2	1:K:170:ALA:HB2	1.86	0.57
1:L:297:HIS:CD2	1:L:298:ILE:HG13	2.40	0.57
1:C:438:LEU:HD11	1:D:108:LYS:HD3	1.85	0.57
1:D:363:TYR:OH	1:D:373:LEU:O	2.14	0.57
1:F:350:PHE:N	1:F:390:ALA:O	2.31	0.57
1:J:410:SER:O	1:J:414:GLU:HG2	2.04	0.57
1:K:232:ALA:HB1	1:K:268:GLU:HA	1.86	0.57
1:L:232:ALA:HB1	1:L:268:GLU:HA	1.86	0.57
1:F:201:PHE:CD1	1:F:283:CYS:HB2	2.40	0.57
1:F:83:LYS:HE2	1:F:85:GLY:HA3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:113:ILE:HG13	1:K:148:PRO:HB2	1.85	0.57
1:D:83:LYS:HB2	1:D:515:GLU:HB3	1.85	0.57
1:E:321:ARG:HA	1:E:324:LYS:HE2	1.85	0.57
1:E:399:GLN:HA	1:E:402:ALA:HB3	1.86	0.57
1:G:236:GLN:HB2	1:G:265:LYS:HD2	1.87	0.57
1:H:83:LYS:HE2	1:H:85:GLY:HA3	1.86	0.57
1:I:528:LYS:HZ3	1:I:560:LEU:HD23	1.70	0.57
1:J:406:GLU:O	1:J:410:SER:OG	2.17	0.57
1:J:434:THR:HG21	1:K:72:ARG:HG3	1.86	0.57
1:K:556:TYR:HB3	1:K:572:ALA:HB2	1.86	0.57
1:L:375:ASN:OD1	1:L:376:ARG:N	2.36	0.57
1:A:276:VAL:HG22	1:A:296:GLU:HA	1.86	0.57
1:B:667:GLU:HG2	1:C:666:ARG:NH1	2.20	0.57
1:C:410:SER:O	1:C:414:GLU:HG2	2.04	0.57
1:E:221:GLU:HG2	1:E:280:ILE:HG12	1.86	0.57
1:E:664:GLU:OE2	1:F:666:ARG:NH2	2.38	0.57
1:F:193:LEU:HD21	1:F:288:LYS:NZ	2.19	0.57
1:F:80:TYR:HD1	1:F:518:THR:HA	1.69	0.57
1:G:232:ALA:HB1	1:G:268:GLU:HA	1.86	0.57
1:G:47:GLN:HB2	1:G:50:THR:HG21	1.87	0.57
1:G:613:GLY:HA2	1:G:616:LEU:CD1	2.33	0.57
1:H:232:ALA:HB1	1:H:268:GLU:HA	1.87	0.57
1:H:443:ASP:OD1	1:H:444:LEU:N	2.37	0.57
1:K:263:PHE:O	1:K:265:LYS:HG3	2.05	0.57
1:A:80:TYR:HD1	1:A:518:THR:HA	1.70	0.57
1:B:223:TYR:HE1	1:B:278:LYS:HG3	1.70	0.57
1:B:615:LEU:O	1:B:619:GLN:HG2	2.05	0.57
1:B:639:VAL:O	1:B:643:ASN:ND2	2.38	0.57
1:C:615:LEU:O	1:C:619:GLN:HG2	2.04	0.57
1:F:263:PHE:O	1:F:265:LYS:HG3	2.05	0.57
1:F:589:GLU:O	1:F:593:LEU:HB2	2.05	0.57
1:H:643:ASN:HA	1:H:646:ASN:ND2	2.20	0.57
1:I:117:GLU:HB3	1:I:123:VAL:HG23	1.87	0.57
1:J:270:GLN:NE2	1:J:271:ILE:O	2.38	0.57
1:J:653:ILE:O	1:J:657:MET:HG2	2.05	0.57
1:K:29:ALA:O	1:K:33:LEU:HB2	2.05	0.57
1:A:666:ARG:NH2	1:L:664:GLU:OE2	2.38	0.57
1:H:667:GLU:HG2	1:I:666:ARG:NH1	2.19	0.56
1:H:353:PRO:HA	1:I:373:LEU:HD23	1.87	0.56
1:J:263:PHE:O	1:J:265:LYS:HG3	2.05	0.56
1:A:613:GLY:O	1:A:616:LEU:HD13	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:612:GLN:HA	1:C:615:LEU:CD1	2.36	0.56
1:D:236:GLN:HB2	1:D:265:LYS:HD2	1.85	0.56
1:E:615:LEU:O	1:E:619:GLN:HG2	2.05	0.56
1:G:353:PRO:O	1:G:356:ILE:HG22	2.05	0.56
1:I:162:SER:HA	1:I:169:ASP:OD1	2.06	0.56
1:I:37:ARG:NH1	1:I:48:TYR:OH	2.38	0.56
1:I:615:LEU:O	1:I:619:GLN:HG2	2.05	0.56
1:I:650:ILE:HA	1:I:653:ILE:HD12	1.87	0.56
1:K:353:PRO:HA	1:L:373:LEU:HD23	1.87	0.56
1:B:577:ILE:HG21	1:B:593:LEU:HD13	1.87	0.56
1:C:433:ASP:O	1:C:437:GLN:N	2.35	0.56
1:C:667:GLU:HG2	1:D:666:ARG:NH1	2.20	0.56
1:D:353:PRO:O	1:D:356:ILE:HG22	2.05	0.56
1:C:350:PHE:CD1	1:D:372:TYR:HB3	2.39	0.56
1:D:426:ASN:O	1:D:429:GLN:NE2	2.39	0.56
1:F:236:GLN:HB2	1:F:265:LYS:HD2	1.87	0.56
1:H:375:ASN:OD1	1:H:376:ARG:N	2.36	0.56
1:I:433:ASP:O	1:I:437:GLN:N	2.37	0.56
1:J:232:ALA:HB1	1:J:268:GLU:HA	1.86	0.56
1:K:433:ASP:O	1:K:437:GLN:N	2.37	0.56
1:L:82:PRO:HB3	1:L:90:ALA:HB3	1.86	0.56
1:C:34:PHE:O	1:C:38:VAL:HG23	2.05	0.56
1:G:577:ILE:HG12	1:G:597:GLN:NE2	2.14	0.56
1:J:162:SER:HB2	1:J:170:ALA:HB2	1.86	0.56
1:J:711:GLN:OE1	1:K:712:ARG:NH1	2.38	0.56
1:A:589:GLU:O	1:A:593:LEU:HB2	2.05	0.56
1:C:375:ASN:OD1	1:C:376:ARG:N	2.37	0.56
1:C:386:THR:HG22	1:C:387:GLN:H	1.70	0.56
1:I:232:ALA:HB1	1:I:268:GLU:HA	1.87	0.56
1:B:113:ILE:HG13	1:B:148:PRO:HB2	1.88	0.56
1:E:82:PRO:HB3	1:E:90:ALA:HB3	1.87	0.56
1:G:276:VAL:HG22	1:G:296:GLU:HA	1.88	0.56
1:J:34:PHE:O	1:J:38:VAL:HG23	2.05	0.56
1:K:41:TRP:CH2	1:K:44:TRP:HB2	2.41	0.56
1:K:603:GLN:O	1:K:606:PRO:HD3	2.04	0.56
1:B:263:PHE:O	1:B:265:LYS:HG3	2.05	0.56
1:B:386:THR:HG22	1:B:387:GLN:H	1.70	0.56
1:B:511:ARG:HD3	1:B:513:ARG:HH22	1.71	0.56
1:E:618:GLY:O	1:E:621:GLU:HB2	2.06	0.56
1:F:41:TRP:CH2	1:F:44:TRP:HB2	2.41	0.56
1:H:201:PHE:CD1	1:H:283:CYS:HB2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:276:VAL:HG22	1:I:296:GLU:HA	1.87	0.56
1:I:639:VAL:O	1:I:643:ASN:ND2	2.37	0.56
1:I:667:GLU:HG2	1:J:666:ARG:NH1	2.20	0.56
1:F:386:THR:HG22	1:F:387:GLN:H	1.71	0.56
1:J:577:ILE:HG21	1:J:593:LEU:HD13	1.87	0.56
1:A:193:LEU:HD21	1:A:288:LYS:NZ	2.21	0.56
1:D:386:THR:HG22	1:D:387:GLN:H	1.71	0.56
1:E:270:GLN:NE2	1:E:271:ILE:O	2.38	0.56
1:E:375:ASN:OD1	1:E:376:ARG:N	2.35	0.56
1:E:386:THR:HG22	1:E:387:GLN:H	1.70	0.56
1:E:639:VAL:O	1:E:643:ASN:ND2	2.38	0.56
1:G:309:PHE:HB3	1:G:312:ASP:HA	1.87	0.56
1:B:410:SER:O	1:B:414:GLU:HG2	2.06	0.56
1:D:577:ILE:HG12	1:D:597:GLN:NE2	2.16	0.56
1:E:356:ILE:HG21	1:F:373:LEU:HD21	1.87	0.56
1:G:272:LYS:O	1:H:134:ASP:HB2	2.06	0.56
1:H:236:GLN:HB2	1:H:265:LYS:CD	2.36	0.56
1:K:363:TYR:OH	1:K:373:LEU:O	2.18	0.56
1:L:410:SER:O	1:L:414:GLU:HG2	2.05	0.56
1:H:438:LEU:HD11	1:I:108:LYS:HD3	1.88	0.56
1:J:321:ARG:HA	1:J:324:LYS:HE2	1.87	0.56
1:J:426:ASN:O	1:J:429:GLN:NE2	2.39	0.56
1:J:639:VAL:O	1:J:643:ASN:ND2	2.37	0.56
1:K:201:PHE:CD1	1:K:283:CYS:HB2	2.41	0.56
1:B:220:ALA:CB	1:B:281:ILE:O	2.46	0.55
1:E:337:ASN:HA	1:E:340:ILE:HD12	1.88	0.55
1:F:321:ARG:HA	1:F:324:LYS:HE2	1.87	0.55
1:I:353:PRO:O	1:I:356:ILE:HG22	2.06	0.55
1:I:589:GLU:O	1:I:593:LEU:HB2	2.06	0.55
1:J:353:PRO:O	1:J:356:ILE:HG22	2.06	0.55
1:J:386:THR:HG22	1:J:387:GLN:H	1.70	0.55
1:K:386:THR:HG22	1:K:387:GLN:H	1.72	0.55
1:A:433:ASP:HA	1:A:436:ASN:HB3	1.87	0.55
1:B:335:SER:O	1:B:338:ALA:HB3	2.06	0.55
1:B:337:ASN:HA	1:B:340:ILE:HD12	1.88	0.55
1:C:577:ILE:HG21	1:C:593:LEU:HD13	1.86	0.55
1:D:433:ASP:HA	1:D:436:ASN:HB3	1.88	0.55
1:E:299:PRO:HG2	1:E:300:ILE:HD12	1.88	0.55
1:E:438:LEU:HD11	1:F:108:LYS:HD3	1.88	0.55
1:F:299:PRO:HG2	1:F:300:ILE:HD12	1.87	0.55
1:F:429:GLN:HA	1:F:432:PHE:HD2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:618:GLY:O	1:F:621:GLU:HB2	2.05	0.55
1:F:438:LEU:HD11	1:G:108:LYS:HD3	1.87	0.55
1:G:643:ASN:HA	1:G:646:ASN:ND2	2.21	0.55
1:H:426:ASN:O	1:H:429:GLN:NE2	2.40	0.55
1:I:429:GLN:HA	1:I:432:PHE:HD2	1.72	0.55
1:L:386:THR:HG22	1:L:387:GLN:H	1.71	0.55
1:A:263:PHE:O	1:A:265:LYS:HG3	2.06	0.55
1:A:386:THR:HG22	1:A:387:GLN:H	1.71	0.55
1:A:426:ASN:O	1:A:429:GLN:NE2	2.39	0.55
1:D:350:PHE:N	1:D:390:ALA:O	2.32	0.55
1:D:612:GLN:HA	1:D:615:LEU:HG	1.88	0.55
1:C:664:GLU:HG3	1:D:659:LEU:HD22	1.88	0.55
1:E:276:VAL:HG22	1:E:296:GLU:HA	1.88	0.55
1:F:375:ASN:OD1	1:F:376:ARG:N	2.37	0.55
1:F:612:GLN:HA	1:F:615:LEU:CD1	2.35	0.55
1:G:386:THR:HG22	1:G:387:GLN:H	1.71	0.55
1:G:426:ASN:O	1:G:429:GLN:NE2	2.40	0.55
1:I:603:GLN:O	1:I:606:PRO:HD3	2.05	0.55
1:J:353:PRO:HA	1:K:373:LEU:HD23	1.89	0.55
1:B:236:GLN:HB2	1:B:265:LYS:HD2	1.89	0.55
1:B:643:ASN:HA	1:B:646:ASN:ND2	2.21	0.55
1:C:350:PHE:N	1:C:390:ALA:O	2.32	0.55
1:E:410:SER:O	1:E:414:GLU:HG2	2.06	0.55
1:E:161:ASN:HD21	1:F:183:GLY:HA3	1.71	0.55
1:F:232:ALA:HB1	1:F:268:GLU:HA	1.87	0.55
1:E:350:PHE:CD1	1:F:372:TYR:HB3	2.42	0.55
1:G:34:PHE:O	1:G:38:VAL:HG23	2.05	0.55
1:I:34:PHE:O	1:I:38:VAL:HG23	2.06	0.55
1:J:643:ASN:HA	1:J:646:ASN:ND2	2.21	0.55
1:D:375:ASN:OD1	1:D:376:ARG:N	2.36	0.55
1:E:193:LEU:HD21	1:E:288:LYS:NZ	2.22	0.55
1:J:309:PHE:HB3	1:J:312:ASP:HA	1.88	0.55
1:L:433:ASP:HA	1:L:436:ASN:HB3	1.88	0.55
1:A:232:ALA:HB1	1:A:268:GLU:HA	1.87	0.55
1:B:433:ASP:HA	1:B:436:ASN:HB3	1.88	0.55
1:D:27:ARG:HD3	1:D:313:LYS:HE3	1.88	0.55
1:D:556:TYR:HB3	1:D:572:ALA:HB2	1.88	0.55
1:D:643:ASN:HA	1:D:646:ASN:ND2	2.22	0.55
1:E:363:TYR:HE1	1:E:372:TYR:HA	1.70	0.55
1:H:263:PHE:O	1:H:265:LYS:HG3	2.05	0.55
1:K:438:LEU:HD11	1:L:108:LYS:HD3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:276:VAL:HG22	1:L:296:GLU:HA	1.88	0.55
1:B:353:PRO:O	1:B:356:ILE:HG22	2.06	0.55
1:B:418:LEU:HD23	1:B:429:GLN:HB3	1.89	0.55
1:C:201:PHE:CD1	1:C:283:CYS:HB2	2.41	0.55
1:C:399:GLN:HA	1:C:402:ALA:HB3	1.88	0.55
1:D:117:GLU:HB3	1:D:123:VAL:HG23	1.88	0.55
1:G:325:ASP:O	1:G:328:ARG:HG2	2.07	0.55
1:H:615:LEU:O	1:H:619:GLN:HG2	2.07	0.55
1:H:639:VAL:O	1:H:642:GLN:HG2	2.07	0.55
1:J:272:LYS:O	1:K:134:ASP:HB2	2.06	0.55
1:L:528:LYS:NZ	1:L:559:LEU:O	2.40	0.55
1:B:589:GLU:O	1:B:593:LEU:HB2	2.07	0.55
1:D:511:ARG:HD3	1:D:513:ARG:HH22	1.71	0.55
1:E:353:PRO:HA	1:F:373:LEU:HD23	1.89	0.55
1:E:426:ASN:O	1:E:429:GLN:NE2	2.38	0.55
1:F:643:ASN:HA	1:F:646:ASN:ND2	2.21	0.55
1:G:350:PHE:CD1	1:H:372:TYR:HB3	2.41	0.55
1:I:32:ASP:O	1:I:35:PHE:HB2	2.07	0.55
1:J:418:LEU:HD23	1:J:429:GLN:HB3	1.89	0.55
1:K:193:LEU:HD21	1:K:288:LYS:NZ	2.22	0.55
1:A:612:GLN:HA	1:A:615:LEU:CD1	2.37	0.55
1:C:236:GLN:HB2	1:C:265:LYS:CD	2.36	0.55
1:D:589:GLU:O	1:D:593:LEU:HB2	2.06	0.55
1:I:433:ASP:O	1:I:436:ASN:HB3	2.07	0.55
1:I:612:GLN:HA	1:I:615:LEU:CD1	2.36	0.55
1:J:363:TYR:HE1	1:J:372:TYR:HA	1.72	0.55
1:K:309:PHE:HB3	1:K:312:ASP:HA	1.88	0.55
1:K:93:VAL:O	1:K:96:GLY:N	2.40	0.55
1:L:337:ASN:HA	1:L:340:ILE:HD12	1.89	0.55
1:L:589:GLU:O	1:L:593:LEU:HB2	2.06	0.55
1:A:309:PHE:HB3	1:A:312:ASP:HA	1.88	0.54
1:E:612:GLN:HA	1:E:615:LEU:CD1	2.37	0.54
1:F:536:LEU:HD23	1:F:539:LEU:HD12	1.88	0.54
1:H:276:VAL:HG22	1:H:296:GLU:HA	1.89	0.54
1:I:263:PHE:O	1:I:265:LYS:HG3	2.07	0.54
1:J:127:ARG:HB3	1:J:147:GLU:HB2	1.89	0.54
1:L:350:PHE:N	1:L:390:ALA:O	2.32	0.54
1:C:162:SER:OG	1:C:164:LEU:O	2.25	0.54
1:D:664:GLU:OE2	1:E:666:ARG:NH2	2.40	0.54
1:G:117:GLU:HB3	1:G:123:VAL:HG23	1.89	0.54
1:G:335:SER:O	1:G:338:ALA:HB3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:356:ILE:HG21	1:H:373:LEU:HD21	1.89	0.54
1:K:536:LEU:HD23	1:K:539:LEU:HD12	1.89	0.54
1:K:643:ASN:HA	1:K:646:ASN:ND2	2.22	0.54
1:L:201:PHE:CD1	1:L:283:CYS:HB2	2.42	0.54
1:D:156:VAL:HA	1:D:174:THR:O	2.07	0.54
1:D:34:PHE:O	1:D:38:VAL:HG23	2.07	0.54
1:G:193:LEU:HD21	1:G:288:LYS:NZ	2.22	0.54
1:G:350:PHE:HB2	1:G:390:ALA:HB3	1.88	0.54
1:G:615:LEU:O	1:G:619:GLN:HG2	2.07	0.54
1:H:353:PRO:O	1:H:356:ILE:HG22	2.07	0.54
1:I:386:THR:HG22	1:I:387:GLN:H	1.72	0.54
1:J:612:GLN:HA	1:J:615:LEU:CD1	2.36	0.54
1:L:577:ILE:HG12	1:L:597:GLN:NE2	2.17	0.54
1:A:307:TRP:HE1	1:A:314:GLU:HG2	1.71	0.54
1:B:236:GLN:HB2	1:B:265:LYS:CD	2.38	0.54
1:C:433:ASP:HA	1:C:436:ASN:HB3	1.89	0.54
1:C:618:GLY:O	1:C:621:GLU:HB2	2.07	0.54
1:D:236:GLN:HB2	1:D:265:LYS:CD	2.37	0.54
1:E:349:PRO:HG3	1:E:391:TYR:CZ	2.42	0.54
1:I:176:ILE:HD11	1:I:204:PRO:HB3	1.90	0.54
1:K:276:VAL:HG22	1:K:296:GLU:HA	1.90	0.54
1:L:27:ARG:HD3	1:L:313:LYS:HE3	1.89	0.54
1:L:309:PHE:HB3	1:L:312:ASP:HA	1.88	0.54
1:B:96:GLY:O	1:B:100:THR:OG1	2.08	0.54
1:D:193:LEU:HD21	1:D:288:LYS:NZ	2.23	0.54
1:D:348:LYS:HB2	1:E:372:TYR:CD2	2.43	0.54
1:E:78:VAL:HG22	1:E:520:VAL:HG12	1.90	0.54
1:F:236:GLN:HB2	1:F:265:LYS:CD	2.38	0.54
1:I:375:ASN:OD1	1:I:376:ARG:N	2.36	0.54
1:J:220:ALA:CB	1:J:281:ILE:O	2.43	0.54
1:J:399:GLN:HA	1:J:402:ALA:HB3	1.88	0.54
1:L:156:VAL:HA	1:L:174:THR:O	2.07	0.54
1:A:162:SER:HA	1:A:169:ASP:OD1	2.08	0.54
1:D:176:ILE:HD11	1:D:204:PRO:HB3	1.90	0.54
1:F:353:PRO:O	1:F:356:ILE:HG22	2.08	0.54
1:G:221:GLU:HG2	1:G:280:ILE:HG12	1.89	0.54
1:G:528:LYS:HZ3	1:G:560:LEU:HD23	1.72	0.54
1:I:410:SER:O	1:I:414:GLU:HG2	2.08	0.54
1:I:618:GLY:O	1:I:621:GLU:HB2	2.08	0.54
1:J:363:TYR:OH	1:J:373:LEU:O	2.16	0.54
1:B:399:GLN:HA	1:B:402:ALA:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:350:PHE:HB2	1:E:390:ALA:HB3	1.89	0.54
1:F:309:PHE:HB3	1:F:312:ASP:HA	1.88	0.54
1:I:236:GLN:HB2	1:I:265:LYS:HD2	1.89	0.54
1:I:354:GLU:HG2	1:J:376:ARG:HD3	1.90	0.54
1:J:193:LEU:HD21	1:J:288:LYS:NZ	2.23	0.54
1:J:201:PHE:CD1	1:J:283:CYS:HB2	2.42	0.54
1:J:589:GLU:O	1:J:593:LEU:HB2	2.07	0.54
1:A:410:SER:O	1:A:414:GLU:HG2	2.07	0.54
1:A:643:ASN:HA	1:A:646:ASN:ND2	2.22	0.54
1:C:643:ASN:HA	1:C:646:ASN:ND2	2.22	0.54
1:G:337:ASN:HA	1:G:340:ILE:HD12	1.88	0.54
1:H:386:THR:HG22	1:H:387:GLN:H	1.73	0.54
1:I:335:SER:O	1:I:338:ALA:HB3	2.07	0.54
1:J:162:SER:HA	1:J:169:ASP:OD1	2.08	0.54
1:J:275:ARG:NH2	1:J:293:ILE:O	2.35	0.54
1:A:201:PHE:CD1	1:A:283:CYS:HB2	2.43	0.54
1:C:15:PHE:HA	1:C:18:ASP:HB3	1.90	0.54
1:C:418:LEU:HD23	1:C:429:GLN:HB3	1.88	0.54
1:C:426:ASN:O	1:C:429:GLN:NE2	2.41	0.54
1:E:201:PHE:CD1	1:E:283:CYS:HB2	2.43	0.54
1:E:83:LYS:HE2	1:E:85:GLY:HA3	1.89	0.54
1:J:32:ASP:O	1:J:35:PHE:HB2	2.07	0.54
1:K:589:GLU:O	1:K:593:LEU:HB2	2.08	0.54
1:K:653:ILE:O	1:K:657:MET:HG2	2.06	0.54
1:A:321:ARG:HA	1:A:324:LYS:HE2	1.89	0.54
1:A:353:PRO:O	1:A:356:ILE:HG22	2.08	0.54
1:B:34:PHE:O	1:B:38:VAL:HG23	2.08	0.54
1:D:350:PHE:HB2	1:D:390:ALA:HB3	1.88	0.54
1:F:337:ASN:HA	1:F:340:ILE:HD12	1.89	0.54
1:F:433:ASP:HA	1:F:436:ASN:HB3	1.89	0.54
1:H:337:ASN:HA	1:H:340:ILE:HD12	1.89	0.54
1:H:350:PHE:HB2	1:H:390:ALA:HB3	1.90	0.54
1:I:363:TYR:HE1	1:I:372:TYR:HA	1.73	0.54
1:K:426:ASN:O	1:K:429:GLN:NE2	2.41	0.54
1:C:335:SER:O	1:C:338:ALA:HB3	2.08	0.53
1:E:232:ALA:HB1	1:E:268:GLU:HA	1.89	0.53
1:E:309:PHE:HB3	1:E:312:ASP:HA	1.90	0.53
1:J:618:GLY:O	1:J:621:GLU:HB2	2.07	0.53
1:K:615:LEU:O	1:K:619:GLN:HG2	2.06	0.53
1:L:193:LEU:HD21	1:L:288:LYS:NZ	2.23	0.53
1:L:34:PHE:O	1:L:38:VAL:HG23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:429:GLN:HA	1:L:432:PHE:HD2	1.73	0.53
1:E:236:GLN:HB2	1:E:265:LYS:CD	2.37	0.53
1:E:353:PRO:O	1:E:356:ILE:HG22	2.08	0.53
1:H:272:LYS:O	1:I:134:ASP:HB2	2.08	0.53
1:H:335:SER:O	1:H:338:ALA:HB3	2.08	0.53
1:J:528:LYS:HZ3	1:J:560:LEU:HD23	1.73	0.53
1:K:433:ASP:HA	1:K:436:ASN:HB3	1.90	0.53
1:A:235:TYR:HE1	1:A:264:ILE:HA	1.74	0.53
1:B:556:TYR:HB3	1:B:572:ALA:HB2	1.90	0.53
1:E:363:TYR:OH	1:E:373:LEU:O	2.20	0.53
1:E:643:ASN:HA	1:E:646:ASN:ND2	2.23	0.53
1:J:337:ASN:HA	1:J:340:ILE:HD12	1.90	0.53
1:L:350:PHE:HB2	1:L:390:ALA:HB3	1.90	0.53
1:L:618:GLY:O	1:L:621:GLU:HB2	2.08	0.53
1:A:433:ASP:O	1:A:436:ASN:HB3	2.08	0.53
1:E:335:SER:O	1:E:338:ALA:HB3	2.09	0.53
1:E:515:GLU:N	1:E:515:GLU:OE1	2.41	0.53
1:E:589:GLU:O	1:E:593:LEU:HB2	2.08	0.53
1:F:577:ILE:HG21	1:F:593:LEU:HD13	1.89	0.53
1:I:577:ILE:HG21	1:I:593:LEU:HD13	1.89	0.53
1:L:162:SER:HA	1:L:169:ASP:OD1	2.09	0.53
1:B:223:TYR:CE1	1:B:278:LYS:HG3	2.43	0.53
1:C:382:GLY:N	1:C:383:ASP:HA	2.23	0.53
1:E:528:LYS:NZ	1:E:559:LEU:O	2.39	0.53
1:F:276:VAL:HG22	1:F:296:GLU:HA	1.90	0.53
1:G:433:ASP:HA	1:G:436:ASN:HB3	1.91	0.53
1:I:643:ASN:HA	1:I:646:ASN:ND2	2.23	0.53
1:I:96:GLY:O	1:I:100:THR:OG1	2.11	0.53
1:A:87:ARG:HD3	1:A:89:ASP:HB2	1.90	0.53
1:B:193:LEU:HD21	1:B:288:LYS:NZ	2.23	0.53
1:C:101:ASP:OD1	1:C:101:ASP:N	2.42	0.53
1:D:618:GLY:O	1:D:621:GLU:HB2	2.08	0.53
1:F:156:VAL:HA	1:F:174:THR:O	2.08	0.53
1:F:31:ASN:O	1:F:35:PHE:HD2	1.91	0.53
1:I:87:ARG:HD3	1:I:89:ASP:HB2	1.89	0.53
1:K:32:ASP:O	1:K:35:PHE:HB2	2.09	0.53
1:K:399:GLN:HA	1:K:402:ALA:HB3	1.89	0.53
1:A:335:SER:O	1:A:338:ALA:HB3	2.08	0.53
1:C:131:ASP:OD1	1:C:132:TYR:N	2.42	0.53
1:D:528:LYS:NZ	1:D:559:LEU:O	2.40	0.53
1:F:410:SER:O	1:F:414:GLU:HG2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:201:PHE:CD1	1:G:283:CYS:HB2	2.44	0.53
1:H:528:LYS:HZ3	1:H:560:LEU:HD23	1.74	0.53
1:L:131:ASP:OD1	1:L:132:TYR:N	2.42	0.53
1:L:221:GLU:HG2	1:L:280:ILE:HG12	1.90	0.53
1:L:124:GLY:HA3	1:L:303:VAL:HG22	1.91	0.53
1:C:162:SER:HA	1:C:169:ASP:OD1	2.09	0.53
1:C:230:GLU:OE2	1:C:249:ARG:HG2	2.09	0.53
1:C:536:LEU:HD23	1:C:539:LEU:HD12	1.91	0.53
1:F:273:ARG:NE	1:F:296:GLU:OE2	2.42	0.53
1:F:78:VAL:HG22	1:F:520:VAL:HG12	1.90	0.53
1:H:363:TYR:HE1	1:H:372:TYR:HA	1.74	0.53
1:H:433:ASP:HA	1:H:436:ASN:HB3	1.91	0.53
1:J:27:ARG:HD3	1:J:313:LYS:HE3	1.89	0.53
1:B:15:PHE:HA	1:B:18:ASP:HB3	1.91	0.53
1:D:235:TYR:HE1	1:D:264:ILE:HA	1.74	0.53
1:H:309:PHE:HB3	1:H:312:ASP:HA	1.90	0.53
1:H:577:ILE:HG21	1:H:593:LEU:HD13	1.91	0.53
1:J:78:VAL:HG22	1:J:520:VAL:HG12	1.89	0.53
1:K:96:GLY:O	1:K:100:THR:OG1	2.13	0.53
1:A:536:LEU:HD23	1:A:539:LEU:HD12	1.91	0.53
1:B:515:GLU:N	1:B:515:GLU:OE1	2.42	0.53
1:D:230:GLU:OE2	1:D:249:ARG:HG2	2.09	0.53
1:F:538:LEU:O	1:F:542:THR:OG1	2.27	0.53
1:G:353:PRO:HA	1:H:373:LEU:HD23	1.91	0.53
1:I:80:TYR:HD1	1:I:518:THR:HA	1.74	0.53
1:I:272:LYS:O	1:J:134:ASP:HB2	2.09	0.53
1:L:168:SER:HA	1:L:297:HIS:NE2	2.24	0.53
1:C:350:PHE:HB2	1:C:390:ALA:HB3	1.91	0.52
1:E:162:SER:HA	1:E:169:ASP:OD1	2.09	0.52
1:F:83:LYS:HB2	1:F:515:GLU:HB3	1.91	0.52
1:F:528:LYS:NZ	1:F:559:LEU:O	2.42	0.52
1:G:536:LEU:HD23	1:G:539:LEU:HD12	1.91	0.52
1:H:618:GLY:O	1:H:621:GLU:HB2	2.09	0.52
1:I:201:PHE:CD1	1:I:283:CYS:HB2	2.44	0.52
1:J:382:GLY:N	1:J:383:ASP:HA	2.24	0.52
1:J:438:LEU:HD11	1:K:108:LYS:HD3	1.91	0.52
1:L:382:GLY:N	1:L:383:ASP:HA	2.24	0.52
1:C:299:PRO:HG2	1:C:300:ILE:HD12	1.90	0.52
1:G:399:GLN:HA	1:G:402:ALA:HB3	1.91	0.52
1:G:438:LEU:HD11	1:H:108:LYS:HD3	1.91	0.52
1:A:108:LYS:HD3	1:L:438:LEU:HD11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:615:LEU:O	1:A:619:GLN:HG2	2.08	0.52
1:B:299:PRO:HG2	1:B:300:ILE:HD12	1.92	0.52
1:F:15:PHE:HA	1:F:18:ASP:HB3	1.91	0.52
1:I:101:ASP:OD2	1:I:144:ILE:HG12	2.09	0.52
1:J:335:SER:O	1:J:338:ALA:HB3	2.09	0.52
1:L:335:SER:O	1:L:338:ALA:HB3	2.09	0.52
1:A:363:TYR:HE1	1:A:372:TYR:HA	1.74	0.52
1:E:159:ASP:C	1:E:161:ASN:H	2.13	0.52
1:F:252:LYS:HD2	1:F:256:ASP:HB3	1.91	0.52
1:F:325:ASP:O	1:F:328:ARG:HG2	2.09	0.52
1:A:235:TYR:CE1	1:A:264:ILE:HA	2.44	0.52
1:A:618:GLY:O	1:A:621:GLU:HB2	2.09	0.52
1:D:201:PHE:CD1	1:D:283:CYS:HB2	2.45	0.52
1:K:353:PRO:O	1:K:356:ILE:HG22	2.09	0.52
1:A:628:GLN:O	1:A:632:LEU:HB2	2.10	0.52
1:A:663:SER:HA	1:A:666:ARG:NE	2.24	0.52
1:C:232:ALA:HB1	1:C:268:GLU:HA	1.90	0.52
1:C:161:ASN:HD21	1:D:183:GLY:HA3	1.73	0.52
1:D:276:VAL:HG22	1:D:296:GLU:HA	1.90	0.52
1:D:515:GLU:OE1	1:D:515:GLU:N	2.42	0.52
1:E:162:SER:HB2	1:E:170:ALA:HB2	1.90	0.52
1:E:433:ASP:HA	1:E:436:ASN:HB3	1.92	0.52
1:H:41:TRP:CH2	1:H:44:TRP:HB2	2.44	0.52
1:I:156:VAL:HA	1:I:174:THR:O	2.08	0.52
1:I:577:ILE:HG12	1:I:597:GLN:NE2	2.16	0.52
1:K:53:TYR:O	1:K:54:ARG:NH1	2.41	0.52
1:L:299:PRO:HG2	1:L:300:ILE:HD12	1.90	0.52
1:L:321:ARG:HA	1:L:324:LYS:HE2	1.91	0.52
1:L:615:LEU:O	1:L:619:GLN:HG2	2.10	0.52
1:B:159:ASP:C	1:B:161:ASN:H	2.13	0.52
1:H:156:VAL:HA	1:H:174:THR:O	2.09	0.52
1:K:433:ASP:O	1:K:436:ASN:HB3	2.10	0.52
1:L:353:PRO:O	1:L:356:ILE:HG22	2.09	0.52
1:L:363:TYR:HE1	1:L:372:TYR:HA	1.75	0.52
1:L:515:GLU:N	1:L:515:GLU:OE1	2.43	0.52
1:A:15:PHE:HA	1:A:18:ASP:HB3	1.92	0.52
1:A:429:GLN:HA	1:A:432:PHE:HD2	1.75	0.52
1:F:615:LEU:O	1:F:619:GLN:HG2	2.10	0.52
1:H:273:ARG:NE	1:H:296:GLU:OE2	2.43	0.52
1:H:536:LEU:HD23	1:H:539:LEU:HD12	1.92	0.52
1:J:168:SER:HA	1:J:297:HIS:NE2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:377:THR:HA	1:J:383:ASP:OD2	2.10	0.52
1:L:536:LEU:HD23	1:L:539:LEU:HD12	1.90	0.52
1:A:338:ALA:O	1:A:342:ALA:N	2.41	0.52
1:A:78:VAL:HG22	1:A:520:VAL:HG12	1.92	0.52
1:B:127:ARG:HB3	1:B:147:GLU:HB2	1.91	0.52
1:D:124:GLY:HA3	1:D:303:VAL:HG22	1.92	0.52
1:D:615:LEU:O	1:D:619:GLN:HG2	2.10	0.52
1:D:78:VAL:HG22	1:D:520:VAL:HG12	1.92	0.52
1:E:429:GLN:HA	1:E:432:PHE:HD2	1.75	0.52
1:F:162:SER:HB2	1:F:170:ALA:HB2	1.92	0.52
1:H:299:PRO:HG2	1:H:300:ILE:HD12	1.91	0.52
1:H:78:VAL:HG22	1:H:520:VAL:HG12	1.91	0.52
1:I:193:LEU:HD21	1:I:288:LYS:NZ	2.25	0.52
1:J:80:TYR:HD1	1:J:518:THR:HA	1.74	0.52
1:L:127:ARG:HB3	1:L:147:GLU:HB2	1.90	0.52
1:D:127:ARG:HB3	1:D:147:GLU:HB2	1.92	0.52
1:D:577:ILE:HG21	1:D:593:LEU:HD13	1.91	0.52
1:E:382:GLY:N	1:E:383:ASP:HA	2.25	0.52
1:I:299:PRO:HG2	1:I:300:ILE:HD12	1.92	0.52
1:J:355:GLN:HG2	1:K:376:ARG:NH1	2.22	0.52
1:K:82:PRO:HB3	1:K:90:ALA:HB3	1.92	0.52
1:L:612:GLN:HA	1:L:615:LEU:CD1	2.39	0.52
1:A:27:ARG:HH11	1:A:313:LYS:HE3	1.74	0.51
1:B:101:ASP:OD2	1:B:144:ILE:HG12	2.10	0.51
1:B:152:ALA:HA	1:B:155:HIS:HB2	1.92	0.51
1:B:353:PRO:HA	1:C:373:LEU:HD23	1.91	0.51
1:B:433:ASP:O	1:B:436:ASN:HB3	2.11	0.51
1:D:303:VAL:HB	1:D:439:ASN:ND2	2.25	0.51
1:F:363:TYR:HE1	1:F:372:TYR:HA	1.75	0.51
1:F:382:GLY:N	1:F:383:ASP:HA	2.25	0.51
1:I:230:GLU:OE2	1:I:249:ARG:HG2	2.09	0.51
1:A:418:LEU:HD23	1:A:429:GLN:HB3	1.92	0.51
1:A:613:GLY:HA2	1:A:616:LEU:CD1	2.32	0.51
1:C:276:VAL:HG22	1:C:296:GLU:HA	1.92	0.51
1:C:303:VAL:HB	1:C:439:ASN:ND2	2.26	0.51
1:C:528:LYS:NZ	1:C:559:LEU:O	2.38	0.51
1:G:299:PRO:HG2	1:G:300:ILE:HD12	1.92	0.51
1:J:299:PRO:HG2	1:J:300:ILE:HD12	1.92	0.51
1:L:643:ASN:HA	1:L:646:ASN:ND2	2.24	0.51
1:A:348:LYS:HB2	1:B:372:TYR:CD2	2.46	0.51
1:D:321:ARG:HA	1:D:324:LYS:HE2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:353:PRO:HD3	1:E:374:LEU:O	2.10	0.51
1:D:32:ASP:O	1:D:35:PHE:HB2	2.10	0.51
1:C:646:ASN:HA	1:D:644:GLN:HG2	1.91	0.51
1:H:324:LYS:O	1:H:327:GLN:HB2	2.10	0.51
1:I:273:ARG:NE	1:I:296:GLU:OE2	2.43	0.51
1:K:127:ARG:HB3	1:K:147:GLU:HB2	1.91	0.51
1:L:32:ASP:O	1:L:35:PHE:HB2	2.11	0.51
1:B:664:GLU:OE2	1:C:666:ARG:NH2	2.43	0.51
1:C:151:SER:HB2	1:C:155:HIS:CE1	2.46	0.51
1:E:586:THR:CG2	1:E:590:GLN:HE22	2.24	0.51
1:B:131:ASP:OD1	1:B:132:TYR:N	2.44	0.51
1:B:281:ILE:HG12	1:B:287:LEU:H	1.74	0.51
1:C:106:THR:HG23	1:C:146:ARG:HE	1.75	0.51
1:C:252:LYS:HD2	1:C:256:ASP:HB3	1.91	0.51
1:E:613:GLY:HA2	1:E:616:LEU:CD1	2.39	0.51
1:G:131:ASP:OD1	1:G:132:TYR:N	2.44	0.51
1:H:417:THR:O	1:H:418:LEU:HD12	2.11	0.51
1:H:515:GLU:OE1	1:H:515:GLU:N	2.44	0.51
1:I:587:PRO:HD2	1:I:589:GLU:HG3	1.92	0.51
1:I:348:LYS:HB2	1:J:372:TYR:CD2	2.46	0.51
1:K:162:SER:HA	1:K:169:ASP:OD1	2.11	0.51
1:K:299:PRO:HG2	1:K:300:ILE:HD12	1.91	0.51
1:K:34:PHE:O	1:K:38:VAL:HG23	2.10	0.51
1:K:667:GLU:HG2	1:L:666:ARG:NH1	2.25	0.51
1:L:325:ASP:O	1:L:328:ARG:HG2	2.11	0.51
1:A:438:LEU:HD11	1:B:108:LYS:HD3	1.92	0.51
1:B:613:GLY:CA	1:B:616:LEU:HD13	2.33	0.51
1:F:27:ARG:HH11	1:F:313:LYS:HE3	1.76	0.51
1:F:433:ASP:O	1:F:436:ASN:HB3	2.11	0.51
1:G:363:TYR:HE1	1:G:372:TYR:HA	1.75	0.51
1:G:410:SER:O	1:G:414:GLU:HG2	2.11	0.51
1:H:32:ASP:O	1:H:35:PHE:HB2	2.11	0.51
1:A:325:ASP:O	1:A:328:ARG:HG2	2.11	0.51
1:D:131:ASP:OD1	1:D:132:TYR:N	2.43	0.51
1:D:299:PRO:HG2	1:D:300:ILE:HD12	1.93	0.51
1:E:433:ASP:O	1:E:436:ASN:HB3	2.10	0.51
1:F:335:SER:O	1:F:338:ALA:HB3	2.10	0.51
1:G:586:THR:CG2	1:G:590:GLN:HE22	2.24	0.51
1:I:382:GLY:N	1:I:383:ASP:HA	2.25	0.51
1:J:159:ASP:C	1:J:161:ASN:H	2.14	0.51
1:J:303:VAL:HB	1:J:439:ASN:ND2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:220:ALA:CB	1:K:281:ILE:O	2.46	0.51
1:A:34:PHE:O	1:A:38:VAL:HG23	2.10	0.51
1:B:642:GLN:HA	1:B:645:LEU:HD12	1.92	0.51
1:D:161:ASN:ND2	1:E:183:GLY:HA3	2.25	0.51
1:F:101:ASP:OD2	1:F:144:ILE:HG12	2.11	0.51
1:G:162:SER:HA	1:G:169:ASP:OD1	2.10	0.51
1:G:273:ARG:NE	1:G:296:GLU:OE2	2.44	0.51
1:F:653:ILE:HG12	1:G:648:ALA:HA	1.92	0.51
1:H:101:ASP:OD2	1:H:144:ILE:HG12	2.11	0.51
1:H:34:PHE:O	1:H:38:VAL:HG23	2.11	0.51
1:J:325:ASP:O	1:J:328:ARG:HG2	2.10	0.51
1:J:429:GLN:HA	1:J:432:PHE:HD2	1.75	0.51
1:K:27:ARG:HD3	1:K:313:LYS:HE3	1.93	0.51
1:C:272:LYS:O	1:D:134:ASP:HB2	2.10	0.51
1:D:159:ASP:C	1:D:161:ASN:H	2.13	0.51
1:D:273:ARG:NE	1:D:296:GLU:OE2	2.44	0.51
1:D:335:SER:O	1:D:338:ALA:HB3	2.10	0.51
1:D:355:GLN:HG2	1:E:376:ARG:NH1	2.20	0.51
1:E:559:LEU:HB3	1:E:565:VAL:HB	1.92	0.51
1:G:303:VAL:HB	1:G:439:ASN:ND2	2.26	0.51
1:G:382:GLY:N	1:G:383:ASP:HA	2.25	0.51
1:H:223:TYR:CE1	1:H:278:LYS:HG3	2.46	0.51
1:J:156:VAL:HA	1:J:174:THR:O	2.10	0.51
1:L:577:ILE:HG21	1:L:593:LEU:HD13	1.92	0.51
1:A:434:THR:HG21	1:B:72:ARG:HG3	1.92	0.51
1:C:309:PHE:HB3	1:C:312:ASP:HA	1.93	0.51
1:E:307:TRP:HE1	1:E:314:GLU:HG2	1.75	0.51
1:G:577:ILE:HG21	1:G:593:LEU:HD13	1.91	0.51
1:H:162:SER:HA	1:H:169:ASP:OD1	2.11	0.51
1:H:363:TYR:OH	1:H:373:LEU:O	2.17	0.51
1:J:354:GLU:HG2	1:K:376:ARG:HD3	1.92	0.51
1:K:156:VAL:HA	1:K:174:THR:O	2.11	0.51
1:K:325:ASP:O	1:K:328:ARG:HG2	2.10	0.51
1:K:78:VAL:HG22	1:K:520:VAL:HG12	1.92	0.51
1:L:628:GLN:O	1:L:632:LEU:HB2	2.10	0.51
1:A:273:ARG:NE	1:A:296:GLU:OE2	2.44	0.50
1:B:24:GLU:OE1	1:B:24:GLU:N	2.44	0.50
1:B:273:ARG:NE	1:B:296:GLU:OE2	2.44	0.50
1:E:228:LYS:HB2	1:E:275:ARG:HB3	1.93	0.50
1:E:27:ARG:HD3	1:E:313:LYS:HE3	1.92	0.50
1:E:355:GLN:HA	1:E:375:ASN:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:161:ASN:ND2	1:J:183:GLY:HA3	2.26	0.50
1:I:236:GLN:HB2	1:I:265:LYS:CD	2.41	0.50
1:I:417:THR:O	1:I:418:LEU:HD12	2.11	0.50
1:J:353:PRO:HD3	1:K:374:LEU:O	2.11	0.50
1:I:350:PHE:CD1	1:J:372:TYR:HB3	2.46	0.50
1:J:587:PRO:HD2	1:J:589:GLU:HG3	1.93	0.50
1:K:577:ILE:HG21	1:K:593:LEU:HD13	1.92	0.50
1:J:664:GLU:HG3	1:K:659:LEU:HD22	1.93	0.50
1:L:53:TYR:O	1:L:54:ARG:NH1	2.43	0.50
1:B:536:LEU:HD23	1:B:539:LEU:HD12	1.94	0.50
1:E:156:VAL:HA	1:E:174:THR:O	2.11	0.50
1:H:348:LYS:HB2	1:I:372:TYR:CD2	2.46	0.50
1:K:159:ASP:C	1:K:161:ASN:H	2.15	0.50
1:K:223:TYR:CE1	1:K:278:LYS:HG3	2.45	0.50
1:L:236:GLN:HB2	1:L:265:LYS:CD	2.40	0.50
1:A:655:ASN:ND2	1:L:657:MET:SD	2.85	0.50
1:B:162:SER:OG	1:B:164:LEU:O	2.30	0.50
1:B:349:PRO:HG3	1:B:391:TYR:CZ	2.47	0.50
1:D:382:GLY:N	1:D:383:ASP:HA	2.25	0.50
1:E:32:ASP:O	1:E:35:PHE:HB2	2.11	0.50
1:G:168:SER:HA	1:G:297:HIS:NE2	2.26	0.50
1:G:667:GLU:HG2	1:H:666:ARG:NH1	2.26	0.50
1:J:615:LEU:O	1:J:619:GLN:HG2	2.10	0.50
1:K:417:THR:O	1:K:418:LEU:HD12	2.12	0.50
1:A:101:ASP:OD2	1:A:144:ILE:HG12	2.11	0.50
1:B:382:GLY:N	1:B:383:ASP:HA	2.25	0.50
1:B:434:THR:HG21	1:C:72:ARG:HG3	1.91	0.50
1:B:663:SER:HA	1:B:666:ARG:NE	2.23	0.50
1:D:349:PRO:HG3	1:D:391:TYR:CZ	2.46	0.50
1:D:418:LEU:HD23	1:D:429:GLN:HB3	1.93	0.50
1:E:325:ASP:O	1:E:328:ARG:HG2	2.10	0.50
1:G:140:ASN:HB3	1:G:455:THR:OG1	2.11	0.50
1:H:131:ASP:OD1	1:H:132:TYR:N	2.44	0.50
1:J:559:LEU:HB3	1:J:565:VAL:HB	1.94	0.50
1:J:667:GLU:HG2	1:K:666:ARG:NH1	2.26	0.50
1:L:349:PRO:HG3	1:L:391:TYR:CZ	2.46	0.50
1:C:444:LEU:O	1:C:447:TYR:HB3	2.12	0.50
1:E:34:PHE:O	1:E:38:VAL:HG23	2.12	0.50
1:F:168:SER:HA	1:F:297:HIS:NE2	2.27	0.50
1:H:29:ALA:O	1:H:33:LEU:HB2	2.12	0.50
1:I:343:ARG:HH22	1:K:368:ASP:HA	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:581:VAL:HG22	1:K:567:MET:HB2	1.94	0.50
1:L:159:ASP:C	1:L:161:ASN:H	2.14	0.50
1:C:436:ASN:HA	1:C:439:ASN:ND2	2.27	0.50
1:C:586:THR:CG2	1:C:590:GLN:HE22	2.25	0.50
1:D:278:LYS:HE2	1:D:280:ILE:HD11	1.93	0.50
1:D:55:GLY:H	1:D:335:SER:HG	1.60	0.50
1:E:434:THR:HG21	1:F:72:ARG:HG3	1.94	0.50
1:F:204:PRO:HD3	1:F:218:GLN:HG2	1.94	0.50
1:H:230:GLU:OE2	1:H:249:ARG:HG2	2.11	0.50
1:I:321:ARG:HA	1:I:324:LYS:HE2	1.94	0.50
1:J:101:ASP:OD2	1:J:144:ILE:HG12	2.11	0.50
1:K:228:LYS:HB2	1:K:275:ARG:HB3	1.93	0.50
1:K:363:TYR:HE1	1:K:372:TYR:HA	1.76	0.50
1:K:62:PRO:HA	1:K:65:ARG:HH21	1.76	0.50
1:L:433:ASP:O	1:L:436:ASN:HB3	2.12	0.50
1:A:124:GLY:HA3	1:A:303:VAL:HG22	1.93	0.50
1:A:515:GLU:OE1	1:A:515:GLU:N	2.45	0.50
1:B:272:LYS:O	1:C:134:ASP:HB2	2.12	0.50
1:B:320:VAL:O	1:B:323:THR:OG1	2.18	0.50
1:B:338:ALA:O	1:B:342:ALA:N	2.43	0.50
1:C:273:ARG:NE	1:C:296:GLU:OE2	2.44	0.50
1:C:29:ALA:O	1:C:33:LEU:HB2	2.11	0.50
1:E:101:ASP:OD2	1:E:144:ILE:HG12	2.12	0.50
1:D:272:LYS:O	1:E:134:ASP:HB2	2.12	0.50
1:E:168:SER:HA	1:E:297:HIS:NE2	2.26	0.50
1:E:230:GLU:OE2	1:E:249:ARG:HG2	2.12	0.50
1:F:27:ARG:HD3	1:F:313:LYS:HE3	1.94	0.50
1:F:140:ASN:HB3	1:F:455:THR:OG1	2.12	0.50
1:I:131:ASP:OD1	1:I:132:TYR:N	2.44	0.50
1:J:236:GLN:HB2	1:J:265:LYS:CD	2.41	0.50
1:J:515:GLU:N	1:J:515:GLU:OE1	2.45	0.50
1:A:24:GLU:OE1	1:A:24:GLU:N	2.44	0.50
1:C:193:LEU:HD21	1:C:288:LYS:NZ	2.26	0.50
1:E:127:ARG:HB3	1:E:147:GLU:HB2	1.93	0.50
1:E:273:ARG:NE	1:E:296:GLU:OE2	2.44	0.50
1:G:24:GLU:OE1	1:G:24:GLU:N	2.45	0.50
1:H:377:THR:HA	1:H:383:ASP:OD2	2.12	0.50
1:I:127:ARG:HB3	1:I:147:GLU:HB2	1.94	0.50
1:J:131:ASP:OD1	1:J:132:TYR:N	2.45	0.50
1:K:24:GLU:N	1:K:24:GLU:OE1	2.45	0.50
1:A:120:GLU:HA	1:A:320:VAL:HB	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:162:SER:HA	1:B:169:ASP:OD1	2.12	0.50
1:B:438:LEU:HD11	1:C:108:LYS:HD3	1.94	0.50
1:B:528:LYS:HZ3	1:B:560:LEU:HD23	1.77	0.50
1:D:680:SER:O	1:D:683:ALA:HB3	2.11	0.50
1:I:235:TYR:HE1	1:I:264:ILE:HA	1.77	0.50
1:K:515:GLU:OE1	1:K:515:GLU:N	2.45	0.50
1:L:24:GLU:N	1:L:24:GLU:OE1	2.45	0.50
1:B:303:VAL:HB	1:B:439:ASN:ND2	2.27	0.49
1:C:417:THR:O	1:C:418:LEU:HD12	2.12	0.49
1:D:101:ASP:OD2	1:D:144:ILE:HG12	2.12	0.49
1:D:235:TYR:CE1	1:D:264:ILE:HA	2.47	0.49
1:E:363:TYR:CE1	1:E:372:TYR:HA	2.47	0.49
1:G:176:ILE:HD11	1:G:204:PRO:HB3	1.93	0.49
1:J:230:GLU:OE2	1:J:249:ARG:HG2	2.11	0.49
1:J:528:LYS:NZ	1:J:559:LEU:O	2.43	0.49
1:L:307:TRP:HE1	1:L:314:GLU:HG2	1.77	0.49
1:L:78:VAL:HG22	1:L:520:VAL:HG12	1.93	0.49
1:A:299:PRO:HG2	1:A:300:ILE:HD12	1.93	0.49
1:A:161:ASN:HD21	1:B:183:GLY:HA3	1.77	0.49
1:B:201:PHE:HD1	1:B:283:CYS:HB2	1.77	0.49
1:B:363:TYR:HE1	1:B:372:TYR:HA	1.77	0.49
1:F:127:ARG:HB3	1:F:147:GLU:HB2	1.94	0.49
1:F:45:LEU:HG	1:F:46:SER:H	1.76	0.49
1:E:664:GLU:HG3	1:F:659:LEU:HD22	1.92	0.49
1:F:161:ASN:HD21	1:G:183:GLY:HA3	1.78	0.49
1:G:248:LYS:HE3	1:G:252:LYS:HB2	1.93	0.49
1:F:348:LYS:HB2	1:G:372:TYR:CD2	2.48	0.49
1:H:220:ALA:CB	1:H:281:ILE:O	2.48	0.49
1:I:663:SER:O	1:I:666:ARG:HG3	2.12	0.49
1:J:348:LYS:HB2	1:K:372:TYR:CD2	2.46	0.49
1:A:236:GLN:HG2	1:A:244:VAL:H	1.76	0.49
1:A:168:SER:HA	1:A:297:HIS:NE2	2.26	0.49
1:C:657:MET:SD	1:D:655:ASN:ND2	2.85	0.49
1:D:338:ALA:O	1:D:342:ALA:N	2.45	0.49
1:D:536:LEU:HD23	1:D:539:LEU:HD12	1.94	0.49
1:D:53:TYR:O	1:D:54:ARG:NH1	2.43	0.49
1:D:576:LEU:O	1:D:581:VAL:HG12	2.12	0.49
1:F:223:TYR:HE1	1:F:278:LYS:HG3	1.78	0.49
1:F:34:PHE:O	1:F:38:VAL:HG23	2.13	0.49
1:G:162:SER:OG	1:G:164:LEU:O	2.31	0.49
1:G:589:GLU:O	1:G:593:LEU:HB2	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:338:ALA:O	1:I:342:ALA:N	2.45	0.49
1:I:80:TYR:CD1	1:I:444:LEU:HD21	2.47	0.49
1:J:350:PHE:HB2	1:J:390:ALA:HB3	1.94	0.49
1:K:106:THR:HG23	1:K:146:ARG:HE	1.77	0.49
1:K:622:LEU:O	1:K:626:GLN:HG3	2.11	0.49
1:L:228:LYS:HB2	1:L:275:ARG:HB3	1.94	0.49
1:A:159:ASP:C	1:A:161:ASN:H	2.14	0.49
1:B:78:VAL:HA	1:B:520:VAL:HA	1.92	0.49
1:D:433:ASP:O	1:D:436:ASN:HB3	2.13	0.49
1:E:348:LYS:HB2	1:F:372:TYR:CD2	2.47	0.49
1:F:528:LYS:HZ3	1:F:560:LEU:HD23	1.78	0.49
1:G:236:GLN:HB2	1:G:265:LYS:CD	2.43	0.49
1:H:15:PHE:HA	1:H:18:ASP:HB3	1.94	0.49
1:H:354:GLU:HG2	1:I:376:ARG:HD3	1.93	0.49
1:I:433:ASP:HA	1:I:436:ASN:HB3	1.93	0.49
1:J:176:ILE:HD11	1:J:204:PRO:HB3	1.94	0.49
1:K:586:THR:CG2	1:K:590:GLN:HE22	2.24	0.49
1:L:417:THR:O	1:L:418:LEU:HD12	2.12	0.49
1:A:32:ASP:O	1:A:35:PHE:HB2	2.12	0.49
1:C:337:ASN:HA	1:C:340:ILE:HD12	1.95	0.49
1:C:353:PRO:O	1:C:356:ILE:HG22	2.11	0.49
1:B:348:LYS:HB2	1:C:372:TYR:CD2	2.48	0.49
1:F:426:ASN:O	1:F:429:GLN:NE2	2.44	0.49
1:F:352:TRP:CB	1:G:376:ARG:HD2	2.39	0.49
1:G:528:LYS:NZ	1:G:559:LEU:O	2.42	0.49
1:H:201:PHE:HD1	1:H:283:CYS:HB2	1.77	0.49
1:L:101:ASP:OD2	1:L:144:ILE:HG12	2.12	0.49
1:K:348:LYS:HB2	1:L:372:TYR:CD2	2.48	0.49
1:L:363:TYR:OH	1:L:373:LEU:O	2.18	0.49
1:A:223:TYR:CE1	1:A:278:LYS:HG3	2.48	0.49
1:B:124:GLY:HA3	1:B:303:VAL:HG22	1.94	0.49
1:C:124:GLY:HA3	1:C:303:VAL:HG22	1.94	0.49
1:F:159:ASP:C	1:F:161:ASN:H	2.14	0.49
1:F:248:LYS:HE3	1:F:252:LYS:HB2	1.94	0.49
1:F:377:THR:HA	1:F:383:ASP:OD2	2.13	0.49
1:G:101:ASP:OD2	1:G:144:ILE:HG12	2.13	0.49
1:G:161:ASN:HD21	1:H:183:GLY:HA3	1.77	0.49
1:H:525:GLN:HB2	1:H:529:GLN:OE1	2.13	0.49
1:L:223:TYR:CE1	1:L:278:LYS:HG3	2.47	0.49
1:A:236:GLN:HB2	1:A:265:LYS:CD	2.43	0.49
1:A:80:TYR:CD1	1:A:444:LEU:HD21	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:613:GLY:CA	1:C:616:LEU:HD13	2.43	0.49
1:C:82:PRO:HB3	1:C:90:ALA:HB3	1.94	0.49
1:E:24:GLU:OE1	1:E:24:GLU:N	2.45	0.49
1:E:587:PRO:HD2	1:E:589:GLU:HG3	1.94	0.49
1:E:663:SER:HA	1:E:666:ARG:NE	2.23	0.49
1:F:613:GLY:O	1:F:616:LEU:HD13	2.13	0.49
1:G:151:SER:HB2	1:G:155:HIS:CE1	2.48	0.49
1:G:514:TYR:HB2	1:H:136:SER:OG	2.13	0.49
1:I:515:GLU:OE1	1:I:515:GLU:N	2.46	0.49
1:I:78:VAL:HG22	1:I:520:VAL:HG12	1.95	0.49
1:A:350:PHE:HB2	1:A:390:ALA:HB3	1.94	0.49
1:A:639:VAL:O	1:A:642:GLN:HG2	2.12	0.49
1:D:354:GLU:HG2	1:E:376:ARG:HD3	1.94	0.49
1:E:639:VAL:O	1:E:642:GLN:HG2	2.13	0.49
1:F:114:ALA:O	1:F:118:GLN:HB2	2.13	0.49
1:G:377:THR:HA	1:G:383:ASP:OD2	2.11	0.49
1:H:228:LYS:HB2	1:H:275:ARG:HB3	1.95	0.49
1:H:382:GLY:N	1:H:383:ASP:HA	2.27	0.49
1:H:590:GLN:HA	1:H:594:VAL:HB	1.94	0.49
1:J:24:GLU:N	1:J:24:GLU:OE1	2.46	0.49
1:L:124:GLY:CA	1:L:303:VAL:HG22	2.43	0.49
1:B:325:ASP:O	1:B:328:ARG:HG2	2.12	0.49
1:C:32:ASP:O	1:C:35:PHE:HB2	2.12	0.49
1:C:55:GLY:N	1:C:335:SER:OG	2.43	0.49
1:D:24:GLU:N	1:D:24:GLU:OE1	2.45	0.49
1:E:642:GLN:HA	1:E:645:LEU:HD12	1.94	0.49
1:E:646:ASN:HA	1:F:644:GLN:HG2	1.95	0.49
1:J:417:THR:O	1:J:418:LEU:HD12	2.12	0.49
1:J:628:GLN:O	1:J:632:LEU:HB2	2.13	0.49
1:K:236:GLN:HB2	1:K:265:LYS:CD	2.43	0.49
1:K:382:GLY:N	1:K:383:ASP:HA	2.25	0.49
1:C:152:ALA:HA	1:C:155:HIS:HB2	1.94	0.49
1:C:220:ALA:CB	1:C:281:ILE:O	2.48	0.49
1:D:363:TYR:HE1	1:D:372:TYR:HA	1.77	0.49
1:D:417:THR:O	1:D:418:LEU:HD12	2.13	0.49
1:F:230:GLU:OE2	1:F:249:ARG:HG2	2.12	0.49
1:F:223:TYR:CE1	1:F:278:LYS:HG3	2.47	0.49
1:F:434:THR:HG21	1:G:72:ARG:HG3	1.95	0.49
1:G:41:TRP:CH2	1:G:44:TRP:HB2	2.48	0.49
1:I:168:SER:HA	1:I:297:HIS:NE2	2.27	0.49
1:I:337:ASN:HA	1:I:340:ILE:HD12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:303:VAL:HG12	1:J:439:ASN:HB3	1.95	0.49
1:K:176:ILE:HD11	1:K:204:PRO:HB3	1.95	0.49
1:K:335:SER:O	1:K:338:ALA:HB3	2.13	0.49
1:L:613:GLY:O	1:L:616:LEU:CD1	2.61	0.49
1:B:32:ASP:O	1:B:35:PHE:HB2	2.12	0.48
1:C:639:VAL:O	1:C:642:GLN:HG2	2.13	0.48
1:D:249:ARG:HG3	1:D:250:ASP:N	2.28	0.48
1:E:152:ALA:HA	1:E:155:HIS:HB2	1.94	0.48
1:E:281:ILE:HG12	1:E:287:LEU:H	1.78	0.48
1:F:639:VAL:O	1:F:642:GLN:HG2	2.13	0.48
1:H:151:SER:HB2	1:H:155:HIS:CE1	2.48	0.48
1:H:159:ASP:C	1:H:161:ASN:H	2.17	0.48
1:H:511:ARG:HD3	1:H:513:ARG:HH22	1.78	0.48
1:I:162:SER:HB2	1:I:170:ALA:HB2	1.95	0.48
1:I:613:GLY:CA	1:I:616:LEU:HD12	2.41	0.48
1:J:433:ASP:O	1:J:436:ASN:HB3	2.13	0.48
1:A:75:PRO:HD2	1:A:523:SER:HB3	1.94	0.48
1:A:621:GLU:OE2	1:B:616:LEU:HB3	2.14	0.48
1:B:576:LEU:O	1:B:581:VAL:HG12	2.13	0.48
1:E:131:ASP:OD1	1:E:132:TYR:N	2.46	0.48
1:G:32:ASP:O	1:G:35:PHE:HB2	2.13	0.48
1:H:433:ASP:O	1:H:436:ASN:HB3	2.12	0.48
1:I:159:ASP:C	1:I:161:ASN:H	2.16	0.48
1:J:324:LYS:O	1:J:327:GLN:HB2	2.13	0.48
1:K:140:ASN:HB3	1:K:455:THR:OG1	2.13	0.48
1:A:106:THR:HG23	1:A:146:ARG:HE	1.78	0.48
1:A:230:GLU:OE2	1:A:249:ARG:HG2	2.12	0.48
1:A:37:ARG:NH1	1:A:48:TYR:OH	2.42	0.48
1:A:417:THR:O	1:A:418:LEU:HD12	2.12	0.48
1:A:525:GLN:HB2	1:A:529:GLN:OE1	2.13	0.48
1:A:528:LYS:NZ	1:A:559:LEU:O	2.44	0.48
1:A:576:LEU:O	1:A:581:VAL:HG12	2.13	0.48
1:B:168:SER:HA	1:B:297:HIS:NE2	2.29	0.48
1:C:24:GLU:OE1	1:C:24:GLU:N	2.46	0.48
1:E:235:TYR:HE1	1:E:264:ILE:HA	1.78	0.48
1:E:303:VAL:HB	1:E:439:ASN:ND2	2.28	0.48
1:F:399:GLN:HA	1:F:402:ALA:HB3	1.95	0.48
1:F:591:GLN:HA	1:F:595:GLU:CD	2.33	0.48
1:H:99:ARG:NH2	1:H:525:GLN:HA	2.28	0.48
1:H:356:ILE:HG21	1:I:373:LEU:HD21	1.95	0.48
1:I:75:PRO:HD2	1:I:523:SER:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:349:PRO:HG3	1:K:391:TYR:CZ	2.48	0.48
1:K:377:THR:HA	1:K:383:ASP:OD2	2.14	0.48
1:L:444:LEU:O	1:L:447:TYR:HB3	2.13	0.48
1:L:576:LEU:O	1:L:581:VAL:HG12	2.12	0.48
1:B:438:LEU:O	1:B:442:ALA:N	2.38	0.48
1:C:201:PHE:HD1	1:C:283:CYS:HB2	1.77	0.48
1:D:162:SER:OG	1:D:164:LEU:O	2.31	0.48
1:D:281:ILE:HG12	1:D:287:LEU:H	1.78	0.48
1:E:248:LYS:HE3	1:E:252:LYS:HB2	1.95	0.48
1:E:235:TYR:CE1	1:E:264:ILE:HA	2.48	0.48
1:E:377:THR:HA	1:E:383:ASP:OD2	2.13	0.48
1:E:45:LEU:HG	1:E:46:SER:H	1.79	0.48
1:F:131:ASP:OD1	1:F:132:TYR:N	2.45	0.48
1:F:24:GLU:OE1	1:F:24:GLU:N	2.47	0.48
1:J:536:LEU:HD23	1:J:539:LEU:HD12	1.93	0.48
1:J:586:THR:CG2	1:J:590:GLN:HE22	2.26	0.48
1:K:581:VAL:HG22	1:L:567:MET:HB2	1.94	0.48
1:K:587:PRO:HD2	1:K:589:GLU:HG3	1.95	0.48
1:B:354:GLU:HG2	1:C:376:ARG:HD3	1.95	0.48
1:B:528:LYS:NZ	1:B:559:LEU:O	2.43	0.48
1:B:581:VAL:HG22	1:C:567:MET:HB2	1.96	0.48
1:D:140:ASN:HB3	1:D:455:THR:OG1	2.14	0.48
1:D:75:PRO:HD2	1:D:523:SER:HB3	1.95	0.48
1:D:613:GLY:HA2	1:D:616:LEU:HD12	1.96	0.48
1:C:664:GLU:OE2	1:D:666:ARG:NH2	2.46	0.48
1:E:220:ALA:CB	1:E:281:ILE:O	2.46	0.48
1:E:438:LEU:O	1:E:442:ALA:N	2.40	0.48
1:F:162:SER:HA	1:F:169:ASP:OD1	2.13	0.48
1:F:444:LEU:O	1:F:447:TYR:HB3	2.13	0.48
1:G:78:VAL:HG22	1:G:520:VAL:HG12	1.96	0.48
1:G:80:TYR:CD1	1:G:444:LEU:HD21	2.49	0.48
1:I:586:THR:CG2	1:I:590:GLN:HE22	2.25	0.48
1:J:82:PRO:HB3	1:J:90:ALA:HB3	1.96	0.48
1:L:106:THR:HG23	1:L:146:ARG:HE	1.79	0.48
1:L:586:THR:CG2	1:L:590:GLN:HE22	2.26	0.48
1:L:593:LEU:O	1:L:597:GLN:HG3	2.12	0.48
1:A:45:LEU:HG	1:A:46:SER:H	1.77	0.48
1:A:350:PHE:CD1	1:B:372:TYR:HB3	2.48	0.48
1:A:306:GLU:OE2	1:B:61:ARG:NE	2.46	0.48
1:C:159:ASP:C	1:C:161:ASN:H	2.16	0.48
1:F:641:ALA:HA	1:F:644:GLN:OE1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:272:LYS:O	1:G:134:ASP:HB2	2.13	0.48
1:G:433:ASP:O	1:G:436:ASN:HB3	2.14	0.48
1:I:353:PRO:HA	1:J:373:LEU:HD23	1.94	0.48
1:A:403:TYR:OH	1:B:397:VAL:HG11	2.14	0.48
1:B:641:ALA:HA	1:B:644:GLN:OE1	2.14	0.48
1:D:124:GLY:CA	1:D:303:VAL:HG22	2.43	0.48
1:F:515:GLU:N	1:F:515:GLU:OE1	2.46	0.48
1:G:230:GLU:OE2	1:G:249:ARG:HG2	2.14	0.48
1:G:660:SER:O	1:G:663:SER:OG	2.24	0.48
1:G:663:SER:O	1:G:666:ARG:HG3	2.14	0.48
1:J:161:ASN:ND2	1:K:183:GLY:HA3	2.25	0.48
1:K:528:LYS:HZ3	1:K:560:LEU:HD23	1.76	0.48
1:A:641:ALA:HA	1:A:644:GLN:OE1	2.13	0.48
1:C:223:TYR:CE1	1:C:278:LYS:HG3	2.49	0.48
1:C:349:PRO:HG3	1:C:391:TYR:CZ	2.49	0.48
1:E:201:PHE:HD1	1:E:283:CYS:HB2	1.78	0.48
1:E:417:THR:O	1:E:418:LEU:HD12	2.14	0.48
1:E:80:TYR:CD1	1:E:444:LEU:HD21	2.49	0.48
1:F:32:ASP:O	1:F:35:PHE:HB2	2.14	0.48
1:G:37:ARG:NH1	1:G:48:TYR:OH	2.38	0.48
1:H:162:SER:OG	1:H:164:LEU:O	2.31	0.48
1:I:24:GLU:OE1	1:I:24:GLU:N	2.47	0.48
1:K:21:ALA:HA	1:K:159:ASP:OD2	2.14	0.48
1:L:99:ARG:NE	1:L:525:GLN:O	2.46	0.48
1:A:220:ALA:CB	1:A:281:ILE:O	2.48	0.48
1:C:21:ALA:HA	1:C:159:ASP:OD2	2.14	0.48
1:C:363:TYR:HE1	1:C:372:TYR:HA	1.79	0.48
1:D:223:TYR:CE1	1:D:278:LYS:HG3	2.48	0.48
1:F:628:GLN:O	1:F:632:LEU:HB2	2.14	0.48
1:G:664:GLU:HG3	1:H:659:LEU:HD22	1.94	0.48
1:J:228:LYS:HB2	1:J:275:ARG:HB3	1.95	0.48
1:K:235:TYR:HE1	1:K:264:ILE:HA	1.78	0.48
1:K:576:LEU:O	1:K:581:VAL:HG12	2.14	0.48
1:L:587:PRO:HD2	1:L:589:GLU:HG3	1.95	0.48
1:A:151:SER:HB2	1:A:155:HIS:CE1	2.48	0.48
1:A:162:SER:HB2	1:A:170:ALA:HB2	1.96	0.48
1:B:444:LEU:O	1:B:448:VAL:HG23	2.14	0.48
1:B:80:TYR:CZ	1:B:516:CYS:HB2	2.49	0.48
1:B:587:PRO:HD2	1:B:589:GLU:HG3	1.95	0.48
1:C:433:ASP:O	1:C:436:ASN:HB3	2.13	0.48
1:C:515:GLU:N	1:C:515:GLU:OE1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:35:PHE:CZ	1:E:321:ARG:HB2	2.49	0.48
1:E:577:ILE:HG21	1:E:593:LEU:HD13	1.95	0.48
1:E:641:ALA:HA	1:E:644:GLN:OE1	2.14	0.48
1:F:303:VAL:HB	1:F:439:ASN:ND2	2.29	0.48
1:F:82:PRO:HB3	1:F:90:ALA:HB3	1.96	0.48
1:H:193:LEU:HD21	1:H:288:LYS:NZ	2.29	0.48
1:I:325:ASP:O	1:I:328:ARG:HG2	2.14	0.48
1:I:576:LEU:O	1:I:581:VAL:HG12	2.14	0.48
1:J:124:GLY:HA3	1:J:303:VAL:HG22	1.96	0.48
1:J:444:LEU:O	1:J:448:VAL:HG23	2.13	0.48
1:K:303:VAL:HB	1:K:439:ASN:ND2	2.28	0.48
1:A:131:ASP:OD1	1:A:132:TYR:N	2.46	0.47
1:A:278:LYS:HE2	1:A:280:ILE:HD11	1.96	0.47
1:A:577:ILE:HG21	1:A:593:LEU:HD13	1.94	0.47
1:B:321:ARG:HA	1:B:324:LYS:HE2	1.95	0.47
1:E:165:MET:HB3	1:E:304:PHE:CG	2.48	0.47
1:G:82:PRO:HB3	1:G:90:ALA:HB3	1.94	0.47
1:H:441:ARG:NH2	1:H:519:ASP:OD1	2.47	0.47
1:H:87:ARG:HD3	1:H:89:ASP:HB2	1.96	0.47
1:I:162:SER:OG	1:I:164:LEU:O	2.32	0.47
1:I:350:PHE:HB2	1:I:390:ALA:HB3	1.95	0.47
1:L:105:ASN:O	1:L:109:ILE:HG12	2.14	0.47
1:L:152:ALA:HA	1:L:155:HIS:HB2	1.95	0.47
1:L:662:GLN:HA	1:L:665:PHE:CD2	2.49	0.47
1:A:382:GLY:N	1:A:383:ASP:HA	2.27	0.47
1:C:27:ARG:HD3	1:C:313:LYS:HE3	1.97	0.47
1:C:532:ARG:HH22	1:C:560:LEU:HD11	1.78	0.47
1:C:514:TYR:HB2	1:D:136:SER:OG	2.14	0.47
1:D:639:VAL:O	1:D:642:GLN:HG2	2.13	0.47
1:E:590:GLN:HA	1:E:594:VAL:HB	1.96	0.47
1:F:587:PRO:HD2	1:F:589:GLU:HG3	1.96	0.47
1:G:417:THR:O	1:G:418:LEU:HD12	2.14	0.47
1:G:444:LEU:O	1:G:448:VAL:HG23	2.14	0.47
1:G:444:LEU:O	1:G:447:TYR:HB3	2.15	0.47
1:I:27:ARG:HD3	1:I:313:LYS:HE3	1.96	0.47
1:J:591:GLN:HA	1:J:595:GLU:CD	2.35	0.47
1:K:15:PHE:HA	1:K:18:ASP:HB3	1.95	0.47
1:A:136:SER:OG	1:L:514:TYR:HB2	2.14	0.47
1:B:105:ASN:O	1:B:109:ILE:HG12	2.15	0.47
1:B:228:LYS:HB2	1:B:275:ARG:HB3	1.96	0.47
1:B:27:ARG:HA	1:B:30:LYS:HE2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:664:GLU:HG3	1:C:659:LEU:HD22	1.95	0.47
1:E:140:ASN:HB3	1:E:455:THR:OG1	2.14	0.47
1:F:249:ARG:HG3	1:F:250:ASP:N	2.29	0.47
1:F:649:ARG:O	1:F:653:ILE:HG13	2.14	0.47
1:G:303:VAL:HG12	1:G:439:ASN:HB3	1.96	0.47
1:G:614:VAL:HG21	1:H:609:VAL:CG1	2.44	0.47
1:I:664:GLU:OE2	1:J:666:ARG:NH2	2.47	0.47
1:K:639:VAL:O	1:K:642:GLN:HG2	2.15	0.47
1:L:164:LEU:HD11	1:L:168:SER:H	1.79	0.47
1:L:203:ASN:OD1	1:L:205:ASN:N	2.34	0.47
1:L:338:ALA:O	1:L:342:ALA:N	2.45	0.47
1:A:324:LYS:O	1:A:327:GLN:HB2	2.14	0.47
1:B:230:GLU:OE2	1:B:249:ARG:HG2	2.14	0.47
1:B:29:ALA:O	1:B:33:LEU:HB2	2.13	0.47
1:B:80:TYR:CD1	1:B:444:LEU:HD21	2.49	0.47
1:D:105:ASN:O	1:D:109:ILE:HG12	2.14	0.47
1:E:380:ASN:OD1	1:E:381:SER:N	2.47	0.47
1:F:538:LEU:HB3	1:F:551:LEU:HD11	1.95	0.47
1:G:47:GLN:HB2	1:G:50:THR:CG2	2.43	0.47
1:H:303:VAL:HB	1:H:439:ASN:ND2	2.28	0.47
1:H:53:TYR:CG	1:H:54:ARG:N	2.83	0.47
1:I:223:TYR:CE1	1:I:278:LYS:HG3	2.50	0.47
1:J:380:ASN:OD1	1:J:381:SER:N	2.47	0.47
1:I:696:GLN:HE22	1:J:698:HIS:CE1	2.32	0.47
1:K:80:TYR:CZ	1:K:516:CYS:HB2	2.50	0.47
1:L:528:LYS:HZ3	1:L:560:LEU:HD23	1.79	0.47
1:C:165:MET:HB3	1:C:304:PHE:CG	2.49	0.47
1:E:663:SER:O	1:E:666:ARG:HG3	2.14	0.47
1:F:80:TYR:CZ	1:F:516:CYS:HB2	2.49	0.47
1:F:576:LEU:O	1:F:581:VAL:HG12	2.14	0.47
1:G:124:GLY:HA3	1:G:303:VAL:HG22	1.96	0.47
1:G:418:LEU:HD23	1:G:429:GLN:HB3	1.95	0.47
1:G:587:PRO:HD2	1:G:589:GLU:HG3	1.97	0.47
1:F:306:GLU:OE2	1:G:61:ARG:NE	2.48	0.47
1:H:124:GLY:HA3	1:H:303:VAL:HG22	1.95	0.47
1:H:176:ILE:HD11	1:H:204:PRO:HB3	1.96	0.47
1:H:353:PRO:HD3	1:I:374:LEU:O	2.14	0.47
1:J:641:ALA:HA	1:J:644:GLN:OE1	2.15	0.47
1:J:701:ARG:HA	1:J:704:ILE:HD12	1.97	0.47
1:K:303:VAL:HG12	1:K:439:ASN:HB3	1.95	0.47
1:J:657:MET:SD	1:K:655:ASN:ND2	2.88	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:223:TYR:HE1	1:L:278:LYS:HG3	1.79	0.47
1:A:176:ILE:HD11	1:A:204:PRO:HB3	1.95	0.47
1:A:124:GLY:CA	1:A:303:VAL:HG22	2.45	0.47
1:B:161:ASN:HD21	1:C:183:GLY:HA3	1.79	0.47
1:B:646:ASN:HA	1:C:644:GLN:HG2	1.97	0.47
1:D:377:THR:HA	1:D:383:ASP:OD2	2.14	0.47
1:F:417:THR:O	1:F:418:LEU:HD12	2.14	0.47
1:F:661:LYS:HE3	1:F:665:PHE:CZ	2.50	0.47
1:G:159:ASP:C	1:G:161:ASN:H	2.16	0.47
1:J:201:PHE:HD1	1:J:283:CYS:HB2	1.79	0.47
1:J:350:PHE:N	1:J:390:ALA:O	2.36	0.47
1:K:444:LEU:O	1:K:447:TYR:HB3	2.15	0.47
1:L:235:TYR:CE1	1:L:264:ILE:HA	2.50	0.47
1:A:193:LEU:HD21	1:A:288:LYS:HZ3	1.78	0.47
1:A:53:TYR:CG	1:A:54:ARG:N	2.83	0.47
1:A:586:THR:CG2	1:A:590:GLN:HE22	2.26	0.47
1:B:417:THR:O	1:B:418:LEU:HD12	2.14	0.47
1:B:649:ARG:O	1:B:653:ILE:HG13	2.14	0.47
1:C:387:GLN:HG3	1:C:387:GLN:O	2.14	0.47
1:D:252:LYS:HD2	1:D:256:ASP:HB3	1.96	0.47
1:G:171:ARG:NH1	1:H:186:ASP:OD2	2.48	0.47
1:I:426:ASN:O	1:I:429:GLN:NE2	2.48	0.47
1:L:21:ALA:HA	1:L:159:ASP:OD2	2.14	0.47
1:A:661:LYS:HE3	1:A:665:PHE:CZ	2.49	0.47
1:B:350:PHE:HB2	1:B:390:ALA:HB3	1.97	0.47
1:B:45:LEU:HG	1:B:46:SER:H	1.80	0.47
1:B:248:LYS:HG2	1:B:511:ARG:HH21	1.80	0.47
1:B:663:SER:O	1:B:666:ARG:HG3	2.15	0.47
1:D:303:VAL:HG12	1:D:439:ASN:HB3	1.96	0.47
1:H:528:LYS:NZ	1:H:559:LEU:O	2.45	0.47
1:H:576:LEU:O	1:H:581:VAL:HG12	2.15	0.47
1:H:646:ASN:OD1	1:H:647:ALA:N	2.48	0.47
1:I:228:LYS:HB2	1:I:275:ARG:HB3	1.96	0.47
1:I:201:PHE:HD1	1:I:283:CYS:HB2	1.79	0.47
1:J:114:ALA:O	1:J:118:GLN:HB2	2.14	0.47
1:K:131:ASP:OD1	1:K:132:TYR:N	2.48	0.47
1:K:80:TYR:CD1	1:K:444:LEU:HD21	2.49	0.47
1:K:80:TYR:HD1	1:K:518:THR:HA	1.78	0.47
1:J:621:GLU:OE2	1:K:616:LEU:HB3	2.15	0.47
1:L:201:PHE:HD1	1:L:283:CYS:HB2	1.80	0.47
1:L:320:VAL:O	1:L:323:THR:OG1	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:646:ASN:HA	1:L:644:GLN:HG2	1.97	0.47
1:A:444:LEU:HD23	1:A:518:THR:HB	1.97	0.47
1:C:249:ARG:HG3	1:C:250:ASP:N	2.30	0.47
1:C:641:ALA:HA	1:C:644:GLN:OE1	2.14	0.47
1:B:657:MET:SD	1:C:655:ASN:ND2	2.88	0.47
1:D:613:GLY:O	1:D:616:LEU:CD1	2.63	0.47
1:E:536:LEU:HD23	1:E:539:LEU:HD12	1.95	0.47
1:E:538:LEU:HB3	1:E:551:LEU:HD11	1.97	0.47
1:E:528:LYS:HZ3	1:E:560:LEU:HD23	1.79	0.47
1:E:576:LEU:O	1:E:581:VAL:HG12	2.15	0.47
1:F:151:SER:HB2	1:F:155:HIS:CE1	2.50	0.47
1:F:162:SER:OG	1:F:164:LEU:O	2.33	0.47
1:I:444:LEU:O	1:I:447:TYR:HB3	2.15	0.47
1:I:641:ALA:HA	1:I:644:GLN:OE1	2.15	0.47
1:K:663:SER:O	1:K:666:ARG:HG3	2.14	0.47
1:A:134:ASP:HB2	1:L:272:LYS:O	2.14	0.47
1:A:444:LEU:O	1:A:448:VAL:HG23	2.14	0.47
1:C:117:GLU:HB3	1:C:123:VAL:HG23	1.97	0.47
1:C:325:ASP:O	1:C:328:ARG:HG2	2.15	0.47
1:D:80:TYR:CD1	1:D:444:LEU:HD21	2.49	0.47
1:E:124:GLY:HA3	1:E:303:VAL:HG22	1.96	0.47
1:E:695:GLU:HA	1:E:698:HIS:ND1	2.30	0.47
1:F:238:PRO:HB3	1:F:263:PHE:CD1	2.50	0.47
1:H:238:PRO:HB3	1:H:263:PHE:CD1	2.49	0.47
1:H:80:TYR:CD1	1:H:444:LEU:HD21	2.50	0.47
1:I:377:THR:HA	1:I:383:ASP:OD2	2.14	0.47
1:J:363:TYR:CE1	1:J:372:TYR:HA	2.49	0.47
1:L:387:GLN:O	1:L:387:GLN:HG3	2.15	0.47
1:C:333:ILE:HG22	1:C:337:ASN:OD1	2.15	0.47
1:C:78:VAL:HG22	1:C:520:VAL:HG12	1.97	0.47
1:D:82:PRO:HB3	1:D:90:ALA:HB3	1.97	0.47
1:F:590:GLN:HA	1:F:594:VAL:HB	1.96	0.47
1:G:27:ARG:HH11	1:G:313:LYS:HE3	1.80	0.47
1:G:380:ASN:OD1	1:G:381:SER:N	2.48	0.47
1:H:105:ASN:O	1:H:109:ILE:HG12	2.15	0.47
1:H:223:TYR:HE1	1:H:278:LYS:HG3	1.80	0.47
1:H:27:ARG:HD3	1:H:313:LYS:HE3	1.96	0.47
1:H:587:PRO:HD2	1:H:589:GLU:HG3	1.97	0.47
1:G:434:THR:HG21	1:H:72:ARG:HG3	1.96	0.47
1:I:403:TYR:OH	1:J:397:VAL:HG11	2.15	0.47
1:A:444:LEU:O	1:A:447:TYR:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:21:ALA:HB2	1:C:172:HIS:CD2	2.50	0.46
1:B:356:ILE:HG21	1:C:373:LEU:HD21	1.97	0.46
1:C:663:SER:HA	1:C:666:ARG:NE	2.25	0.46
1:D:162:SER:HA	1:D:169:ASP:OD1	2.15	0.46
1:E:164:LEU:HD11	1:E:168:SER:H	1.79	0.46
1:E:15:PHE:HA	1:E:18:ASP:HB3	1.97	0.46
1:F:105:ASN:O	1:F:109:ILE:HG12	2.15	0.46
1:F:353:PRO:HD3	1:G:374:LEU:O	2.14	0.46
1:F:303:VAL:HG12	1:F:439:ASN:HB3	1.98	0.46
1:G:281:ILE:HG12	1:G:287:LEU:H	1.80	0.46
1:H:117:GLU:HB3	1:H:123:VAL:HG23	1.96	0.46
1:I:235:TYR:CE1	1:I:264:ILE:HA	2.49	0.46
1:J:53:TYR:O	1:J:54:ARG:NH1	2.46	0.46
1:J:306:GLU:HG3	1:K:116:ARG:NH2	2.30	0.46
1:K:250:ASP:OD1	1:K:251:ILE:HG13	2.16	0.46
1:K:350:PHE:N	1:K:390:ALA:O	2.37	0.46
1:L:377:THR:HA	1:L:383:ASP:OD2	2.15	0.46
1:A:328:ARG:HD2	1:B:53:TYR:OH	2.16	0.46
1:A:642:GLN:HA	1:A:645:LEU:HD12	1.98	0.46
1:B:387:GLN:O	1:B:387:GLN:HG3	2.15	0.46
1:B:646:ASN:OD1	1:B:647:ALA:N	2.49	0.46
1:D:646:ASN:OD1	1:D:647:ALA:N	2.49	0.46
1:E:444:LEU:O	1:E:448:VAL:HG23	2.15	0.46
1:F:387:GLN:O	1:F:387:GLN:HG3	2.15	0.46
1:G:21:ALA:HA	1:G:159:ASP:OD2	2.16	0.46
1:G:350:PHE:N	1:G:390:ALA:O	2.35	0.46
1:G:591:GLN:HA	1:G:595:GLU:CD	2.36	0.46
1:F:664:GLU:OE2	1:G:666:ARG:NH2	2.48	0.46
1:H:161:ASN:ND2	1:I:183:GLY:HA3	2.28	0.46
1:I:303:VAL:HG12	1:I:439:ASN:HB3	1.97	0.46
1:J:438:LEU:O	1:J:442:ALA:N	2.41	0.46
1:K:641:ALA:HA	1:K:644:GLN:OE1	2.15	0.46
1:L:126:TRP:CD1	1:L:146:ARG:HG3	2.51	0.46
1:A:528:LYS:HZ3	1:A:560:LEU:HD23	1.81	0.46
1:B:458:ARG:HH21	1:B:500:ALA:HB1	1.81	0.46
1:B:564:GLY:O	1:B:568:MET:HG2	2.15	0.46
1:C:80:TYR:CZ	1:C:516:CYS:HB2	2.51	0.46
1:D:151:SER:HB2	1:D:155:HIS:CE1	2.50	0.46
1:C:398:PRO:HB3	1:D:394:ASN:HB3	1.96	0.46
1:F:99:ARG:NH2	1:F:525:GLN:HA	2.31	0.46
1:H:249:ARG:HG3	1:H:250:ASP:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:420:VAL:HB	1:H:424:ALA:HA	1.97	0.46
1:J:306:GLU:HG3	1:K:116:ARG:HH22	1.80	0.46
1:J:35:PHE:CZ	1:J:321:ARG:HB2	2.51	0.46
1:J:41:TRP:CH2	1:J:44:TRP:HB2	2.49	0.46
1:K:321:ARG:HA	1:K:324:LYS:HE2	1.96	0.46
1:K:354:GLU:HG2	1:L:376:ARG:HD3	1.96	0.46
1:A:303:VAL:HB	1:A:439:ASN:ND2	2.30	0.46
1:A:646:ASN:OD1	1:A:647:ALA:N	2.49	0.46
1:B:151:SER:HB2	1:B:155:HIS:CE1	2.50	0.46
1:B:350:PHE:N	1:B:390:ALA:O	2.33	0.46
1:C:203:ASN:OD1	1:C:205:ASN:N	2.36	0.46
1:D:444:LEU:O	1:D:448:VAL:HG23	2.15	0.46
1:E:246:TYR:HB2	1:E:511:ARG:H	1.81	0.46
1:E:272:LYS:O	1:F:134:ASP:HB2	2.15	0.46
1:F:307:TRP:HE1	1:F:314:GLU:HG2	1.80	0.46
1:G:436:ASN:HA	1:G:439:ASN:ND2	2.30	0.46
1:G:515:GLU:N	1:G:515:GLU:OE1	2.48	0.46
1:G:590:GLN:HA	1:G:594:VAL:HB	1.97	0.46
1:G:646:ASN:OD1	1:G:647:ALA:N	2.49	0.46
1:H:641:ALA:HA	1:H:644:GLN:OE1	2.16	0.46
1:J:338:ALA:O	1:J:342:ALA:N	2.48	0.46
1:J:387:GLN:HG3	1:J:387:GLN:O	2.15	0.46
1:J:349:PRO:HG3	1:J:391:TYR:CZ	2.50	0.46
1:J:590:GLN:HA	1:J:594:VAL:HB	1.97	0.46
1:J:613:GLY:CA	1:J:616:LEU:HD12	2.43	0.46
1:K:21:ALA:HB2	1:K:172:HIS:NE2	2.30	0.46
1:K:701:ARG:HA	1:K:704:ILE:HD12	1.96	0.46
1:A:249:ARG:HG3	1:A:250:ASP:N	2.30	0.46
1:B:248:LYS:CD	1:B:251:ILE:HB	2.41	0.46
1:B:699:LYS:O	1:B:702:MET:HB3	2.16	0.46
1:C:576:LEU:O	1:C:581:VAL:HG12	2.15	0.46
1:D:380:ASN:OD1	1:D:381:SER:N	2.48	0.46
1:F:21:ALA:HA	1:F:159:ASP:OD2	2.16	0.46
1:F:564:GLY:O	1:F:568:MET:HG2	2.15	0.46
1:G:576:LEU:O	1:G:581:VAL:HG12	2.15	0.46
1:I:99:ARG:NE	1:I:525:GLN:O	2.48	0.46
1:I:53:TYR:CG	1:I:54:ARG:N	2.84	0.46
1:I:82:PRO:HB3	1:I:90:ALA:HB3	1.96	0.46
1:J:235:TYR:CE1	1:J:264:ILE:HA	2.51	0.46
1:J:640:GLU:HA	1:J:643:ASN:HD22	1.81	0.46
1:K:444:LEU:O	1:K:448:VAL:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:609:VAL:O	1:K:612:GLN:HB2	2.16	0.46
1:L:230:GLU:OE2	1:L:249:ARG:HG2	2.15	0.46
1:B:444:LEU:O	1:B:447:TYR:HB3	2.16	0.46
1:C:250:ASP:OD1	1:C:251:ILE:HG13	2.16	0.46
1:C:193:LEU:HD21	1:C:288:LYS:HZ3	1.81	0.46
1:E:223:TYR:CE1	1:E:278:LYS:HG3	2.51	0.46
1:E:235:TYR:HA	1:E:265:LYS:O	2.16	0.46
1:E:387:GLN:HG3	1:E:387:GLN:O	2.16	0.46
1:E:574:LYS:O	1:E:578:GLN:HG3	2.16	0.46
1:G:438:LEU:O	1:G:442:ALA:N	2.40	0.46
1:G:348:LYS:HB2	1:H:372:TYR:CD2	2.51	0.46
1:H:45:LEU:HG	1:H:46:SER:H	1.81	0.46
1:H:649:ARG:O	1:H:653:ILE:HG13	2.16	0.46
1:J:532:ARG:HH22	1:J:560:LEU:HD11	1.80	0.46
1:K:564:GLY:O	1:K:568:MET:HG2	2.15	0.46
1:L:235:TYR:HE1	1:L:264:ILE:HA	1.80	0.46
1:A:133:GLU:O	1:A:137:PRO:HB3	2.16	0.46
1:A:72:ARG:HG3	1:L:434:THR:HG21	1.98	0.46
1:B:377:THR:HA	1:B:383:ASP:OD2	2.16	0.46
1:D:444:LEU:O	1:D:447:TYR:HB3	2.16	0.46
1:E:110:ALA:HB1	1:E:126:TRP:CE3	2.51	0.46
1:F:201:PHE:HD1	1:F:283:CYS:HB2	1.81	0.46
1:F:646:ASN:OD1	1:F:647:ALA:N	2.49	0.46
1:J:120:GLU:HA	1:J:320:VAL:HB	1.98	0.46
1:K:24:GLU:HB2	1:K:159:ASP:OD2	2.16	0.46
1:J:352:TRP:CB	1:K:376:ARG:HD2	2.39	0.46
1:L:151:SER:HB2	1:L:155:HIS:CE1	2.51	0.46
1:A:21:ALA:HA	1:A:159:ASP:OD2	2.16	0.46
1:A:238:PRO:HB3	1:A:263:PHE:CD1	2.51	0.46
1:A:372:TYR:CD2	1:L:348:LYS:HB2	2.50	0.46
1:A:272:LYS:O	1:B:134:ASP:HB2	2.16	0.46
1:B:225:VAL:HA	1:B:276:VAL:HG12	1.97	0.46
1:B:124:GLY:CA	1:B:303:VAL:HG22	2.45	0.46
1:C:228:LYS:HB2	1:C:275:ARG:HB3	1.97	0.46
1:C:444:LEU:O	1:C:448:VAL:HG23	2.15	0.46
1:D:649:ARG:O	1:D:653:ILE:HG13	2.16	0.46
1:E:124:GLY:CA	1:E:303:VAL:HG22	2.46	0.46
1:E:646:ASN:OD1	1:E:647:ALA:N	2.48	0.46
1:E:354:GLU:HG2	1:F:376:ARG:HD3	1.97	0.46
1:F:586:THR:CG2	1:F:590:GLN:HE22	2.27	0.46
1:G:114:ALA:O	1:G:118:GLN:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:42:ASP:HB3	1:G:44:TRP:HD1	1.81	0.46
1:H:21:ALA:HA	1:H:159:ASP:OD2	2.16	0.46
1:H:325:ASP:O	1:H:328:ARG:HG2	2.15	0.46
1:H:80:TYR:HD1	1:H:518:THR:HA	1.81	0.46
1:G:411:ALA:HA	1:H:57:PHE:HE1	1.81	0.46
1:I:21:ALA:HA	1:I:159:ASP:OD2	2.15	0.46
1:I:646:ASN:OD1	1:I:647:ALA:N	2.49	0.46
1:K:223:TYR:HE1	1:K:278:LYS:HG3	1.80	0.46
1:K:387:GLN:O	1:K:387:GLN:HG3	2.15	0.46
1:K:528:LYS:NZ	1:K:559:LEU:O	2.44	0.46
1:K:591:GLN:HA	1:K:595:GLU:CD	2.36	0.46
1:A:376:ARG:HD3	1:L:354:GLU:HG2	1.98	0.46
1:L:41:TRP:CH2	1:L:44:TRP:HB2	2.51	0.46
1:A:165:MET:HB3	1:A:304:PHE:CG	2.50	0.46
1:A:350:PHE:N	1:A:390:ALA:O	2.38	0.46
1:A:82:PRO:HB3	1:A:90:ALA:HB3	1.98	0.46
1:B:586:THR:CG2	1:B:590:GLN:HE22	2.26	0.46
1:B:593:LEU:O	1:B:597:GLN:HG3	2.16	0.46
1:B:591:GLN:HA	1:B:595:GLU:CD	2.36	0.46
1:C:306:GLU:OE2	1:D:61:ARG:NE	2.49	0.46
1:D:642:GLN:HA	1:D:645:LEU:HD12	1.98	0.46
1:E:249:ARG:HG3	1:E:250:ASP:N	2.30	0.46
1:E:444:LEU:HD23	1:E:518:THR:HB	1.98	0.46
1:G:162:SER:HB2	1:G:170:ALA:HB2	1.97	0.46
1:G:87:ARG:HD3	1:G:89:ASP:HB2	1.98	0.46
1:H:114:ALA:O	1:H:118:GLN:HB2	2.16	0.46
1:H:387:GLN:HG3	1:H:387:GLN:O	2.16	0.46
1:H:350:PHE:N	1:H:390:ALA:O	2.35	0.46
1:I:249:ARG:HG3	1:I:250:ASP:N	2.31	0.46
1:I:124:GLY:HA3	1:I:303:VAL:HG22	1.97	0.46
1:I:387:GLN:HG3	1:I:387:GLN:O	2.16	0.46
1:I:590:GLN:HA	1:I:594:VAL:HB	1.98	0.46
1:K:235:TYR:CE1	1:K:264:ILE:HA	2.49	0.46
1:L:24:GLU:HB2	1:L:159:ASP:OD2	2.16	0.46
1:K:306:GLU:OE2	1:L:61:ARG:NE	2.49	0.46
1:A:248:LYS:HE3	1:A:252:LYS:HB2	1.98	0.46
1:C:124:GLY:CA	1:C:303:VAL:HG22	2.46	0.46
1:C:695:GLU:HA	1:C:698:HIS:ND1	2.31	0.46
1:D:250:ASP:OD1	1:D:251:ILE:HG13	2.16	0.46
1:F:87:ARG:HD3	1:F:89:ASP:HB2	1.98	0.46
1:G:201:PHE:HD1	1:G:283:CYS:HB2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:35:PHE:CZ	1:G:321:ARG:HB2	2.51	0.46
1:G:45:LEU:HG	1:G:46:SER:H	1.81	0.46
1:G:663:SER:HA	1:G:666:ARG:NE	2.28	0.46
1:H:429:GLN:HA	1:H:432:PHE:HD2	1.80	0.46
1:H:140:ASN:HB3	1:H:455:THR:OG1	2.16	0.46
1:I:117:GLU:OE1	1:I:124:GLY:HA2	2.16	0.46
1:I:349:PRO:HG3	1:I:391:TYR:CZ	2.51	0.46
1:J:80:TYR:CD1	1:J:444:LEU:HD21	2.51	0.46
1:A:26:ARG:O	1:A:30:LYS:HG3	2.16	0.45
1:A:587:PRO:HD2	1:A:589:GLU:HG3	1.97	0.45
1:B:176:ILE:HD11	1:B:204:PRO:HB3	1.98	0.45
1:B:303:VAL:HG12	1:B:439:ASN:HB3	1.97	0.45
1:C:235:TYR:CE1	1:C:264:ILE:HA	2.51	0.45
1:C:303:VAL:HG12	1:C:439:ASN:HB3	1.97	0.45
1:D:641:ALA:HA	1:D:644:GLN:OE1	2.15	0.45
1:E:21:ALA:HB2	1:E:172:HIS:CD2	2.51	0.45
1:F:80:TYR:CD1	1:F:444:LEU:HD21	2.51	0.45
1:G:10:SER:O	1:G:14:ARG:HG2	2.17	0.45
1:G:15:PHE:HA	1:G:18:ASP:HB3	1.98	0.45
1:G:338:ALA:O	1:G:342:ALA:N	2.46	0.45
1:G:53:TYR:CG	1:G:54:ARG:N	2.84	0.45
1:H:82:PRO:HB3	1:H:90:ALA:HB3	1.99	0.45
1:J:574:LYS:O	1:J:578:GLN:HG3	2.16	0.45
1:K:142:GLN:NE2	1:K:455:THR:OG1	2.50	0.45
1:K:230:GLU:OE2	1:K:249:ARG:HG2	2.15	0.45
1:K:45:LEU:HG	1:K:46:SER:H	1.80	0.45
1:K:646:ASN:OD1	1:K:647:ALA:N	2.49	0.45
1:B:250:ASP:OD1	1:B:251:ILE:HG13	2.16	0.45
1:C:281:ILE:HG12	1:C:287:LEU:H	1.81	0.45
1:C:429:GLN:HA	1:C:432:PHE:HD2	1.81	0.45
1:D:223:TYR:HE1	1:D:278:LYS:HG3	1.81	0.45
1:D:657:MET:SD	1:E:655:ASN:ND2	2.90	0.45
1:E:203:ASN:OD1	1:E:205:ASN:N	2.37	0.45
1:F:444:LEU:HD23	1:F:518:THR:HB	1.98	0.45
1:H:165:MET:HB3	1:H:304:PHE:CG	2.52	0.45
1:H:42:ASP:HB3	1:H:44:TRP:HD1	1.81	0.45
1:H:591:GLN:HA	1:H:595:GLU:CD	2.36	0.45
1:H:662:GLN:HA	1:H:665:PHE:CD2	2.51	0.45
1:I:438:LEU:O	1:I:442:ALA:N	2.40	0.45
1:J:151:SER:HB2	1:J:155:HIS:CE1	2.52	0.45
1:J:236:GLN:HG2	1:J:244:VAL:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:273:ARG:NE	1:J:296:GLU:OE2	2.49	0.45
1:L:296:GLU:HB2	1:L:449:PHE:CD2	2.36	0.45
1:L:564:GLY:O	1:L:568:MET:HG2	2.17	0.45
1:A:355:GLN:HA	1:A:375:ASN:HB3	1.98	0.45
1:A:377:THR:HA	1:A:383:ASP:OD2	2.16	0.45
1:B:99:ARG:NE	1:B:525:GLN:O	2.49	0.45
1:B:661:LYS:HE3	1:B:665:PHE:CZ	2.51	0.45
1:D:99:ARG:NH2	1:D:525:GLN:HA	2.31	0.45
1:D:593:LEU:O	1:D:597:GLN:HG3	2.16	0.45
1:E:444:LEU:O	1:E:447:TYR:HB3	2.16	0.45
1:F:53:TYR:CG	1:F:54:ARG:N	2.83	0.45
1:G:162:SER:OG	1:G:167:LYS:HA	2.16	0.45
1:I:444:LEU:O	1:I:448:VAL:HG23	2.16	0.45
1:J:193:LEU:HD21	1:J:288:LYS:HZ3	1.81	0.45
1:K:320:VAL:O	1:K:323:THR:OG1	2.19	0.45
1:L:133:GLU:O	1:L:137:PRO:HB3	2.16	0.45
1:L:303:VAL:HG12	1:L:439:ASN:HB3	1.98	0.45
1:L:363:TYR:CE1	1:L:372:TYR:HA	2.52	0.45
1:A:105:ASN:O	1:A:109:ILE:HG12	2.15	0.45
1:A:21:ALA:HB2	1:A:172:HIS:NE2	2.31	0.45
1:A:303:VAL:HG12	1:A:439:ASN:HB3	1.98	0.45
1:B:21:ALA:HB2	1:B:172:HIS:NE2	2.31	0.45
1:C:377:THR:HA	1:C:383:ASP:OD2	2.15	0.45
1:C:526:SER:O	1:C:530:GLN:N	2.45	0.45
1:C:99:ARG:NH2	1:C:525:GLN:HA	2.32	0.45
1:D:235:TYR:HA	1:D:265:LYS:O	2.16	0.45
1:D:325:ASP:O	1:D:328:ARG:HG2	2.15	0.45
1:G:80:TYR:CZ	1:G:516:CYS:HB2	2.52	0.45
1:H:250:ASP:OD1	1:H:251:ILE:HG13	2.17	0.45
1:H:26:ARG:O	1:H:30:LYS:HG3	2.17	0.45
1:I:663:SER:HA	1:I:666:ARG:NE	2.29	0.45
1:J:576:LEU:O	1:J:581:VAL:HG12	2.15	0.45
1:J:70:GLU:O	1:J:73:GLN:HG3	2.16	0.45
1:K:355:GLN:HA	1:K:375:ASN:HB3	1.98	0.45
1:K:272:LYS:O	1:L:134:ASP:HB2	2.16	0.45
1:L:250:ASP:OD1	1:L:251:ILE:HG13	2.16	0.45
1:A:363:TYR:CE1	1:A:372:TYR:HA	2.52	0.45
1:A:701:ARG:HA	1:A:704:ILE:HD12	1.99	0.45
1:B:429:GLN:HA	1:B:432:PHE:HD2	1.82	0.45
1:B:628:GLN:O	1:B:632:LEU:HB2	2.15	0.45
1:C:438:LEU:O	1:C:442:ALA:N	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:593:LEU:O	1:C:597:GLN:HG3	2.16	0.45
1:D:203:ASN:OD1	1:D:205:ASN:N	2.38	0.45
1:D:53:TYR:CG	1:D:54:ARG:N	2.84	0.45
1:E:320:VAL:O	1:E:323:THR:OG1	2.18	0.45
1:E:53:TYR:CG	1:E:54:ARG:N	2.85	0.45
1:E:75:PRO:HD2	1:E:523:SER:HB3	1.98	0.45
1:F:35:PHE:CZ	1:F:321:ARG:HB2	2.52	0.45
1:G:140:ASN:HB3	1:G:455:THR:HG1	1.81	0.45
1:I:238:PRO:HB3	1:I:263:PHE:CD1	2.51	0.45
1:I:380:ASN:OD1	1:I:381:SER:N	2.48	0.45
1:J:106:THR:HG23	1:J:146:ARG:HE	1.81	0.45
1:J:642:GLN:HA	1:J:645:LEU:HD12	1.99	0.45
1:K:248:LYS:HE3	1:K:252:LYS:HB2	1.99	0.45
1:L:45:LEU:HG	1:L:46:SER:H	1.81	0.45
1:A:387:GLN:O	1:A:387:GLN:HG3	2.15	0.45
1:B:232:ALA:HA	1:B:269:ARG:H	1.81	0.45
1:B:656:ASN:O	1:B:660:SER:OG	2.31	0.45
1:C:105:ASN:O	1:C:109:ILE:HG12	2.17	0.45
1:C:80:TYR:CD1	1:C:444:LEU:HD21	2.51	0.45
1:C:251:ILE:HD13	1:C:453:LEU:HD13	1.99	0.45
1:C:587:PRO:HD2	1:C:589:GLU:HG3	1.99	0.45
1:C:590:GLN:HA	1:C:594:VAL:HB	1.99	0.45
1:C:646:ASN:OD1	1:C:647:ALA:N	2.49	0.45
1:D:21:ALA:HA	1:D:159:ASP:OD2	2.16	0.45
1:C:356:ILE:HG21	1:D:373:LEU:HD21	1.99	0.45
1:F:21:ALA:HB2	1:F:172:HIS:NE2	2.31	0.45
1:F:355:GLN:HG2	1:G:376:ARG:NH1	2.25	0.45
1:F:663:SER:HA	1:F:666:ARG:NE	2.25	0.45
1:I:639:VAL:O	1:I:642:GLN:HG2	2.17	0.45
1:J:444:LEU:HD23	1:J:518:THR:HB	1.98	0.45
1:J:646:ASN:OD1	1:J:647:ALA:N	2.50	0.45
1:L:15:PHE:HA	1:L:18:ASP:HB3	1.97	0.45
1:L:380:ASN:OD1	1:L:381:SER:N	2.48	0.45
1:A:567:MET:HB2	1:L:581:VAL:HG22	1.98	0.45
1:L:663:SER:HA	1:L:666:ARG:NE	2.28	0.45
1:D:24:GLU:HB2	1:D:159:ASP:OD2	2.17	0.45
1:E:21:ALA:HB2	1:E:172:HIS:NE2	2.32	0.45
1:E:418:LEU:HD23	1:E:429:GLN:HB3	1.99	0.45
1:F:429:GLN:HA	1:F:432:PHE:CD2	2.49	0.45
1:F:438:LEU:O	1:F:442:ALA:N	2.42	0.45
1:G:593:LEU:O	1:G:597:GLN:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:429:GLN:HA	1:I:432:PHE:CD2	2.51	0.45
1:I:628:GLN:O	1:I:632:LEU:HB2	2.16	0.45
1:J:403:TYR:OH	1:K:397:VAL:HG11	2.17	0.45
1:J:639:VAL:O	1:J:642:GLN:HG2	2.17	0.45
1:K:338:ALA:O	1:K:342:ALA:N	2.48	0.45
1:L:297:HIS:CG	1:L:298:ILE:H	2.35	0.45
1:A:380:ASN:OD1	1:A:381:SER:N	2.49	0.45
1:A:99:ARG:NE	1:A:525:GLN:O	2.49	0.45
1:D:238:PRO:HB3	1:D:263:PHE:CD1	2.52	0.45
1:D:436:ASN:HA	1:D:439:ASN:ND2	2.31	0.45
1:D:538:LEU:HB3	1:D:551:LEU:HD11	1.99	0.45
1:D:528:LYS:HZ3	1:D:560:LEU:HD23	1.81	0.45
1:D:80:TYR:CZ	1:D:516:CYS:HB2	2.52	0.45
1:E:80:TYR:CZ	1:E:516:CYS:HB2	2.52	0.45
1:E:640:GLU:HA	1:E:643:ASN:HD22	1.82	0.45
1:F:124:GLY:HA3	1:F:303:VAL:HG22	1.99	0.45
1:F:165:MET:HB3	1:F:304:PHE:CG	2.52	0.45
1:F:406:GLU:O	1:F:410:SER:OG	2.26	0.45
1:G:193:LEU:HD21	1:G:288:LYS:HZ1	1.81	0.45
1:F:398:PRO:HA	1:G:394:ASN:HB3	1.97	0.45
1:G:429:GLN:HA	1:G:432:PHE:HD2	1.82	0.45
1:G:564:GLY:O	1:G:568:MET:HG2	2.17	0.45
1:H:333:ILE:HG22	1:H:337:ASN:OD1	2.17	0.45
1:H:97:MET:HE2	1:H:450:GLN:HE22	1.81	0.45
1:I:252:LYS:HD2	1:I:256:ASP:HB3	1.99	0.45
1:I:220:ALA:CB	1:I:281:ILE:O	2.47	0.45
1:I:29:ALA:O	1:I:33:LEU:HB2	2.17	0.45
1:J:29:ALA:O	1:J:33:LEU:CB	2.64	0.45
1:J:45:LEU:HG	1:J:46:SER:H	1.82	0.45
1:L:238:PRO:HB3	1:L:263:PHE:CD1	2.52	0.45
1:L:426:ASN:O	1:L:429:GLN:NE2	2.50	0.45
1:L:701:ARG:HA	1:L:704:ILE:HD12	1.99	0.45
1:A:117:GLU:OE1	1:A:124:GLY:HA2	2.17	0.45
1:A:354:GLU:HG2	1:B:376:ARG:HD3	1.99	0.45
1:B:140:ASN:HB3	1:B:455:THR:OG1	2.16	0.45
1:B:47:GLN:HB2	1:B:50:THR:CG2	2.47	0.45
1:C:235:TYR:HA	1:C:265:LYS:O	2.16	0.45
1:C:275:ARG:NH2	1:C:293:ILE:O	2.36	0.45
1:D:387:GLN:O	1:D:387:GLN:HG3	2.16	0.45
1:D:538:LEU:O	1:D:542:THR:OG1	2.34	0.45
1:E:628:GLN:O	1:E:632:LEU:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:176:ILE:HD11	1:F:204:PRO:HB3	1.97	0.45
1:G:106:THR:HG23	1:G:146:ARG:HE	1.82	0.45
1:G:320:VAL:O	1:G:324:LYS:HG3	2.17	0.45
1:H:24:GLU:OE1	1:H:24:GLU:N	2.48	0.45
1:H:380:ASN:OD1	1:H:381:SER:N	2.49	0.45
1:H:80:TYR:CZ	1:H:516:CYS:HB2	2.52	0.45
1:I:232:ALA:HA	1:I:269:ARG:H	1.82	0.45
1:I:420:VAL:HB	1:I:424:ALA:HA	1.99	0.45
1:H:664:GLU:HG3	1:I:659:LEU:HD22	1.99	0.45
1:J:80:TYR:CZ	1:J:516:CYS:HB2	2.51	0.45
1:K:297:HIS:CG	1:K:298:ILE:H	2.35	0.45
1:A:201:PHE:HD1	1:A:283:CYS:HB2	1.81	0.45
1:A:649:ARG:O	1:A:653:ILE:HG13	2.17	0.45
1:A:663:SER:O	1:A:666:ARG:HG3	2.16	0.45
1:B:21:ALA:HA	1:B:159:ASP:OD2	2.16	0.45
1:B:259:ALA:HA	1:B:263:PHE:CD2	2.52	0.45
1:C:642:GLN:HA	1:C:645:LEU:HD12	1.98	0.45
1:D:640:GLU:HA	1:D:643:ASN:HD22	1.81	0.45
1:F:349:PRO:HG3	1:F:391:TYR:CZ	2.52	0.45
1:G:75:PRO:HD2	1:G:523:SER:HB3	1.98	0.45
1:H:35:PHE:CZ	1:H:321:ARG:HB2	2.52	0.45
1:I:53:TYR:O	1:I:54:ARG:NH1	2.49	0.45
1:J:203:ASN:OD1	1:J:205:ASN:N	2.35	0.45
1:K:128:LEU:HD22	1:K:144:ILE:HD12	1.99	0.45
1:K:53:TYR:CG	1:K:54:ARG:N	2.85	0.45
1:K:628:GLN:O	1:K:632:LEU:HB2	2.17	0.45
1:L:695:GLU:HA	1:L:698:HIS:ND1	2.32	0.45
1:A:35:PHE:CZ	1:A:321:ARG:HB2	2.52	0.44
1:C:26:ARG:O	1:C:30:LYS:HG3	2.17	0.44
1:C:53:TYR:CG	1:C:54:ARG:N	2.85	0.44
1:D:168:SER:HA	1:D:297:HIS:NE2	2.32	0.44
1:D:591:GLN:HA	1:D:595:GLU:CD	2.37	0.44
1:E:303:VAL:HG12	1:E:439:ASN:HB3	1.98	0.44
1:E:593:LEU:O	1:E:597:GLN:HG3	2.17	0.44
1:F:235:TYR:HE1	1:F:264:ILE:HA	1.82	0.44
1:F:642:GLN:HA	1:F:645:LEU:HD12	1.98	0.44
1:G:184:TRP:CZ3	1:G:199:PRO:HG3	2.52	0.44
1:G:228:LYS:HB2	1:G:275:ARG:HB3	1.98	0.44
1:G:609:VAL:O	1:G:612:GLN:HB2	2.17	0.44
1:I:15:PHE:HA	1:I:18:ASP:HB3	1.98	0.44
1:K:526:SER:O	1:K:530:GLN:N	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:75:PRO:HD2	1:K:523:SER:HB3	1.98	0.44
1:D:356:ILE:HG21	1:E:373:LEU:HD21	1.99	0.44
1:E:538:LEU:O	1:E:542:THR:OG1	2.34	0.44
1:F:250:ASP:OD1	1:F:251:ILE:HG13	2.17	0.44
1:H:663:SER:HA	1:H:666:ARG:HG2	1.98	0.44
1:J:15:PHE:HA	1:J:18:ASP:HB3	1.98	0.44
1:J:232:ALA:HA	1:J:269:ARG:H	1.83	0.44
1:J:75:PRO:HD2	1:J:523:SER:HB3	1.99	0.44
1:K:124:GLY:HA3	1:K:303:VAL:HG22	1.98	0.44
1:K:273:ARG:NE	1:K:296:GLU:OE2	2.50	0.44
1:K:363:TYR:CE1	1:K:372:TYR:HA	2.52	0.44
1:K:623:ALA:HA	1:K:626:GLN:CD	2.38	0.44
1:K:695:GLU:HA	1:K:698:HIS:CE1	2.51	0.44
1:L:140:ASN:HB3	1:L:455:THR:OG1	2.16	0.44
1:L:249:ARG:HG3	1:L:250:ASP:N	2.32	0.44
1:A:203:ASN:OD1	1:A:205:ASN:N	2.33	0.44
1:A:657:MET:SD	1:B:655:ASN:ND2	2.90	0.44
1:B:514:TYR:HB2	1:C:136:SER:OG	2.17	0.44
1:B:653:ILE:HG12	1:C:648:ALA:HA	2.00	0.44
1:C:21:ALA:HB2	1:C:172:HIS:NE2	2.32	0.44
1:C:259:ALA:HA	1:C:263:PHE:CD2	2.53	0.44
1:C:614:VAL:HG11	1:D:609:VAL:HG11	1.99	0.44
1:D:646:ASN:HA	1:E:644:GLN:HG2	1.99	0.44
1:E:21:ALA:HA	1:E:159:ASP:OD2	2.16	0.44
1:E:246:TYR:HB2	1:E:510:ILE:HG13	1.99	0.44
1:F:21:ALA:HB2	1:F:172:HIS:CD2	2.52	0.44
1:F:363:TYR:CE1	1:F:372:TYR:HA	2.52	0.44
1:G:398:PRO:O	1:G:399:GLN:HG2	2.18	0.44
1:H:444:LEU:O	1:H:447:TYR:HB3	2.18	0.44
1:H:444:LEU:HD23	1:H:518:THR:HB	1.99	0.44
1:H:664:GLU:OE2	1:I:666:ARG:NH2	2.50	0.44
1:J:110:ALA:HB1	1:J:126:TRP:CE3	2.51	0.44
1:J:99:ARG:NH2	1:J:525:GLN:HA	2.31	0.44
1:J:78:VAL:HA	1:J:520:VAL:HA	1.99	0.44
1:K:168:SER:HA	1:K:297:HIS:NE2	2.32	0.44
1:K:201:PHE:HD1	1:K:283:CYS:HB2	1.80	0.44
1:K:324:LYS:O	1:K:327:GLN:HB2	2.18	0.44
1:L:444:LEU:O	1:L:448:VAL:HG23	2.17	0.44
1:L:526:SER:O	1:L:530:GLN:N	2.48	0.44
1:A:223:TYR:HE1	1:A:278:LYS:HG3	1.81	0.44
1:A:591:GLN:HA	1:A:595:GLU:CD	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:578:GLN:HA	1:A:597:GLN:HE21	1.82	0.44
1:B:26:ARG:O	1:B:30:LYS:HG3	2.16	0.44
1:C:248:LYS:HG2	1:C:511:ARG:HH21	1.81	0.44
1:D:458:ARG:NH2	1:D:500:ALA:HB1	2.32	0.44
1:E:231:THR:HG22	1:E:249:ARG:HE	1.82	0.44
1:E:250:ASP:OD1	1:E:251:ILE:HG13	2.17	0.44
1:E:120:GLU:HA	1:E:320:VAL:HB	1.99	0.44
1:G:223:TYR:HE1	1:G:278:LYS:HG3	1.83	0.44
1:G:363:TYR:CE1	1:G:372:TYR:HA	2.51	0.44
1:G:387:GLN:O	1:G:387:GLN:HG3	2.17	0.44
1:H:124:GLY:CA	1:H:303:VAL:HG22	2.48	0.44
1:H:203:ASN:OD1	1:H:205:ASN:N	2.33	0.44
1:H:355:GLN:HA	1:H:375:ASN:HB3	1.98	0.44
1:H:628:GLN:O	1:H:632:LEU:HB2	2.18	0.44
1:I:193:LEU:HD21	1:I:288:LYS:HZ3	1.82	0.44
1:J:124:GLY:CA	1:J:303:VAL:HG22	2.47	0.44
1:J:47:GLN:HB2	1:J:50:THR:HG21	2.00	0.44
1:K:203:ASN:HD21	1:K:209:PHE:HZ	1.65	0.44
1:L:444:LEU:HD23	1:L:518:THR:HB	1.99	0.44
1:A:250:ASP:OD1	1:A:251:ILE:HG13	2.17	0.44
1:B:380:ASN:OD1	1:B:381:SER:N	2.49	0.44
1:B:398:PRO:HA	1:C:394:ASN:HB3	1.99	0.44
1:B:47:GLN:HB2	1:B:50:THR:HG21	2.00	0.44
1:B:590:GLN:HA	1:B:594:VAL:HB	1.99	0.44
1:C:663:SER:O	1:C:666:ARG:HG3	2.18	0.44
1:E:649:ARG:O	1:E:653:ILE:HG13	2.17	0.44
1:G:250:ASP:OD1	1:G:251:ILE:HG13	2.17	0.44
1:G:613:GLY:CA	1:G:616:LEU:HD13	2.38	0.44
1:H:27:ARG:HH11	1:H:313:LYS:HE3	1.83	0.44
1:H:657:MET:SD	1:I:655:ASN:ND2	2.91	0.44
1:I:21:ALA:HB2	1:I:172:HIS:NE2	2.32	0.44
1:I:233:PHE:HB2	1:I:249:ARG:HB3	2.00	0.44
1:J:233:PHE:HB2	1:J:249:ARG:HB3	1.98	0.44
1:J:526:SER:O	1:J:530:GLN:N	2.45	0.44
1:J:649:ARG:O	1:J:653:ILE:HG13	2.16	0.44
1:K:47:GLN:HB2	1:K:50:THR:HG21	2.00	0.44
1:K:614:VAL:HG11	1:L:609:VAL:HG11	2.00	0.44
1:L:176:ILE:HD11	1:L:204:PRO:HB3	1.99	0.44
1:L:418:LEU:HD23	1:L:429:GLN:HB3	2.00	0.44
1:L:613:GLY:CA	1:L:616:LEU:HD12	2.47	0.44
1:A:420:VAL:HB	1:A:424:ALA:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:613:GLY:CA	1:A:616:LEU:HD12	2.34	0.44
1:B:235:TYR:CE1	1:B:264:ILE:HA	2.52	0.44
1:B:27:ARG:HH11	1:B:313:LYS:HE3	1.83	0.44
1:B:444:LEU:HD23	1:B:518:THR:HB	2.00	0.44
1:C:448:VAL:HA	1:C:451:ASP:OD2	2.18	0.44
1:C:444:LEU:HD23	1:C:518:THR:HB	2.00	0.44
1:D:228:LYS:HB2	1:D:275:ARG:HB3	1.99	0.44
1:D:329:LEU:O	1:D:333:ILE:HG13	2.17	0.44
1:E:162:SER:OG	1:E:164:LEU:O	2.35	0.44
1:F:106:THR:HG23	1:F:146:ARG:HE	1.82	0.44
1:F:418:LEU:HD23	1:F:429:GLN:HB3	1.99	0.44
1:G:223:TYR:CE1	1:G:278:LYS:HG3	2.52	0.44
1:G:124:GLY:CA	1:G:303:VAL:HG22	2.48	0.44
1:G:99:ARG:NE	1:G:525:GLN:O	2.50	0.44
1:A:162:SER:OG	1:A:164:LEU:O	2.35	0.44
1:B:525:GLN:HB2	1:B:529:GLN:OE1	2.17	0.44
1:C:640:GLU:HA	1:C:643:ASN:HD22	1.83	0.44
1:C:75:PRO:HD2	1:C:523:SER:HB3	1.99	0.44
1:D:29:ALA:O	1:D:33:LEU:HB2	2.18	0.44
1:C:348:LYS:HB2	1:D:372:TYR:CD2	2.53	0.44
1:E:99:ARG:NE	1:E:525:GLN:O	2.50	0.44
1:F:126:TRP:CD1	1:F:146:ARG:HG3	2.53	0.44
1:F:581:VAL:HG22	1:G:567:MET:HB2	2.00	0.44
1:H:278:LYS:HE2	1:H:280:ILE:HD11	1.99	0.44
1:I:406:GLU:O	1:I:410:SER:OG	2.28	0.44
1:I:45:LEU:HG	1:I:46:SER:H	1.82	0.44
1:I:99:ARG:NH2	1:I:525:GLN:HA	2.32	0.44
1:J:21:ALA:HB2	1:J:172:HIS:NE2	2.32	0.44
1:J:320:VAL:O	1:J:323:THR:OG1	2.19	0.44
1:J:436:ASN:HA	1:J:439:ASN:ND2	2.33	0.44
1:J:525:GLN:HB2	1:J:529:GLN:OE1	2.18	0.44
1:I:581:VAL:HG22	1:J:567:MET:HB2	1.99	0.44
1:K:29:ALA:O	1:K:33:LEU:CB	2.66	0.44
1:A:29:ALA:O	1:A:33:LEU:HB2	2.17	0.44
1:A:664:GLU:HG3	1:B:659:LEU:HD22	1.99	0.44
1:B:306:GLU:OE2	1:C:61:ARG:NE	2.50	0.44
1:B:639:VAL:O	1:B:642:GLN:HG2	2.17	0.44
1:C:140:ASN:HB3	1:C:455:THR:OG1	2.17	0.44
1:C:559:LEU:HB3	1:C:565:VAL:HB	2.00	0.44
1:E:573:ASN:HA	1:E:576:LEU:HD12	2.00	0.44
1:F:235:TYR:CE1	1:F:264:ILE:HA	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:525:GLN:HB2	1:F:529:GLN:OE1	2.17	0.44
1:F:656:ASN:O	1:F:660:SER:OG	2.35	0.44
1:G:133:GLU:O	1:G:137:PRO:HB3	2.18	0.44
1:G:646:ASN:HA	1:H:644:GLN:HG2	1.99	0.44
1:I:250:ASP:OD1	1:I:251:ILE:HG13	2.17	0.44
1:I:363:TYR:CE1	1:I:372:TYR:HA	2.50	0.44
1:I:309:PHE:HB2	1:J:150:HIS:HB2	2.00	0.44
1:J:250:ASP:OD1	1:J:251:ILE:HG13	2.17	0.44
1:J:140:ASN:HB3	1:J:455:THR:OG1	2.18	0.44
1:K:124:GLY:CA	1:K:303:VAL:HG22	2.48	0.44
1:K:204:PRO:HD3	1:K:218:GLN:HG2	2.00	0.44
1:K:21:ALA:HB2	1:K:172:HIS:CD2	2.53	0.44
1:A:349:PRO:HG3	1:A:391:TYR:CZ	2.53	0.44
1:B:458:ARG:NH2	1:B:500:ALA:HB1	2.33	0.44
1:C:320:VAL:O	1:C:324:LYS:HG3	2.18	0.44
1:C:45:LEU:HG	1:C:46:SER:H	1.81	0.44
1:C:701:ARG:HA	1:C:704:ILE:HD12	1.99	0.44
1:C:354:GLU:HG2	1:D:376:ARG:HD3	2.00	0.44
1:E:29:ALA:O	1:E:33:LEU:HB2	2.17	0.44
1:G:235:TYR:HE1	1:G:264:ILE:HA	1.83	0.44
1:H:526:SER:O	1:H:530:GLN:N	2.47	0.44
1:I:593:LEU:O	1:I:597:GLN:HG3	2.17	0.44
1:K:10:SER:O	1:K:14:ARG:HG2	2.18	0.44
1:K:151:SER:HB2	1:K:155:HIS:CE1	2.52	0.44
1:K:252:LYS:HD2	1:K:256:ASP:HB3	1.99	0.44
1:K:350:PHE:HB2	1:K:390:ALA:HB3	2.00	0.44
1:K:590:GLN:HA	1:K:594:VAL:HB	2.00	0.44
1:L:235:TYR:HA	1:L:265:LYS:O	2.18	0.44
1:L:35:PHE:CZ	1:L:321:ARG:HB2	2.53	0.44
1:L:383:ASP:O	1:L:384:LEU:HD12	2.18	0.44
1:L:80:TYR:CD1	1:L:444:LEU:HD21	2.52	0.44
1:L:53:TYR:CG	1:L:54:ARG:N	2.86	0.44
1:L:646:ASN:OD1	1:L:647:ALA:N	2.50	0.44
1:A:660:SER:O	1:A:663:SER:OG	2.24	0.43
1:B:162:SER:OG	1:B:167:LYS:HA	2.17	0.43
1:D:21:ALA:HB2	1:D:172:HIS:CD2	2.53	0.43
1:D:514:TYR:HB2	1:E:136:SER:OG	2.17	0.43
1:F:203:ASN:HD21	1:F:209:PHE:HZ	1.65	0.43
1:F:320:VAL:O	1:F:323:THR:OG1	2.19	0.43
1:F:57:PHE:HB2	1:F:334:MET:SD	2.58	0.43
1:F:663:SER:O	1:F:666:ARG:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:117:GLU:OE1	1:H:124:GLY:HA2	2.18	0.43
1:J:333:ILE:HG22	1:J:337:ASN:OD1	2.19	0.43
1:L:281:ILE:HG12	1:L:287:LEU:H	1.83	0.43
1:L:663:SER:O	1:L:666:ARG:HG3	2.17	0.43
1:A:228:LYS:HB2	1:A:275:ARG:HB3	1.99	0.43
1:A:526:SER:O	1:A:530:GLN:N	2.45	0.43
1:B:701:ARG:HA	1:B:704:ILE:HD12	2.00	0.43
1:C:10:SER:O	1:C:14:ARG:HG2	2.18	0.43
1:C:168:SER:HA	1:C:297:HIS:NE2	2.34	0.43
1:C:278:LYS:HE2	1:C:280:ILE:HD11	2.00	0.43
1:E:248:LYS:CD	1:E:251:ILE:HB	2.43	0.43
1:F:26:ARG:O	1:F:30:LYS:HG3	2.18	0.43
1:H:9:GLU:HB3	1:H:12:LEU:HG	2.00	0.43
1:H:235:TYR:CE1	1:H:264:ILE:HA	2.53	0.43
1:I:124:GLY:CA	1:I:303:VAL:HG22	2.49	0.43
1:I:140:ASN:HB3	1:I:455:THR:OG1	2.18	0.43
1:I:514:TYR:HB2	1:J:136:SER:OG	2.18	0.43
1:J:695:GLU:HA	1:J:698:HIS:ND1	2.34	0.43
1:K:162:SER:OG	1:K:164:LEU:O	2.36	0.43
1:L:333:ILE:HG22	1:L:337:ASN:OD1	2.18	0.43
1:L:590:GLN:HA	1:L:594:VAL:HB	1.99	0.43
1:A:140:ASN:HB3	1:A:455:THR:OG1	2.18	0.43
1:A:564:GLY:O	1:A:568:MET:HG2	2.18	0.43
1:B:609:VAL:O	1:B:612:GLN:HB2	2.18	0.43
1:C:338:ALA:O	1:C:342:ALA:N	2.46	0.43
1:C:65:ARG:O	1:C:69:SER:HB2	2.17	0.43
1:D:204:PRO:HD3	1:D:218:GLN:HG2	2.00	0.43
1:D:587:PRO:HD2	1:D:589:GLU:HG3	1.99	0.43
1:E:383:ASP:O	1:E:384:LEU:HD12	2.19	0.43
1:F:444:LEU:O	1:F:448:VAL:HG23	2.17	0.43
1:G:444:LEU:HD23	1:G:518:THR:HB	2.00	0.43
1:G:525:GLN:HB2	1:G:529:GLN:OE1	2.18	0.43
1:H:21:ALA:HB2	1:H:172:HIS:CD2	2.52	0.43
1:I:151:SER:HB2	1:I:155:HIS:CE1	2.52	0.43
1:I:223:TYR:HE1	1:I:278:LYS:HG3	1.84	0.43
1:I:350:PHE:N	1:I:390:ALA:O	2.36	0.43
1:J:444:LEU:O	1:J:447:TYR:HB3	2.18	0.43
1:K:162:SER:OG	1:K:167:LYS:HA	2.18	0.43
1:K:649:ARG:O	1:K:653:ILE:HG13	2.18	0.43
1:K:99:ARG:NH2	1:K:525:GLN:HA	2.32	0.43
1:L:29:ALA:O	1:L:33:LEU:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:33:LEU:HA	1:L:33:LEU:HD12	1.89	0.43
1:L:87:ARG:HD3	1:L:89:ASP:HB2	2.00	0.43
1:A:383:ASP:O	1:A:384:LEU:HD12	2.19	0.43
1:A:528:LYS:HE3	1:A:558:THR:HB	2.01	0.43
1:B:35:PHE:CZ	1:B:321:ARG:HB2	2.53	0.43
1:B:99:ARG:NH2	1:B:525:GLN:HA	2.33	0.43
1:B:538:LEU:O	1:B:542:THR:OG1	2.37	0.43
1:C:35:PHE:CZ	1:C:321:ARG:HB2	2.54	0.43
1:D:31:ASN:O	1:D:35:PHE:HD2	2.02	0.43
1:E:398:PRO:O	1:E:399:GLN:HG2	2.19	0.43
1:E:526:SER:O	1:E:530:GLN:N	2.49	0.43
1:E:657:MET:SD	1:F:655:ASN:ND2	2.91	0.43
1:G:238:PRO:HB3	1:G:263:PHE:CD1	2.53	0.43
1:G:649:ARG:O	1:G:653:ILE:HG13	2.19	0.43
1:H:438:LEU:O	1:H:442:ALA:N	2.40	0.43
1:H:436:ASN:HA	1:H:439:ASN:ND2	2.33	0.43
1:H:653:ILE:HG12	1:I:648:ALA:HA	1.99	0.43
1:I:532:ARG:HH22	1:I:560:LEU:HD11	1.83	0.43
1:I:564:GLY:O	1:I:568:MET:HG2	2.18	0.43
1:J:383:ASP:O	1:J:384:LEU:HD12	2.18	0.43
1:J:663:SER:O	1:J:666:ARG:HG3	2.18	0.43
1:K:126:TRP:CD1	1:K:146:ARG:HG3	2.53	0.43
1:K:383:ASP:O	1:K:384:LEU:HD12	2.18	0.43
1:K:398:PRO:O	1:K:399:GLN:HG2	2.18	0.43
1:K:578:GLN:HA	1:K:597:GLN:HE21	1.82	0.43
1:L:114:ALA:O	1:L:118:GLN:HB2	2.19	0.43
1:A:376:ARG:NH1	1:L:355:GLN:HG2	2.27	0.43
1:L:525:GLN:HB2	1:L:529:GLN:OE1	2.19	0.43
1:A:672:VAL:HA	1:A:675:PHE:CD2	2.54	0.43
1:B:114:ALA:O	1:B:118:GLN:HB2	2.18	0.43
1:B:436:ASN:HA	1:B:439:ASN:ND2	2.32	0.43
1:D:297:HIS:CG	1:D:298:ILE:H	2.36	0.43
1:D:590:GLN:HA	1:D:594:VAL:HB	1.99	0.43
1:E:99:ARG:NH2	1:E:525:GLN:HA	2.34	0.43
1:E:546:THR:OG1	1:E:547:PRO:HD3	2.19	0.43
1:F:225:VAL:HG22	1:F:276:VAL:HG12	2.01	0.43
1:F:220:ALA:CB	1:F:281:ILE:O	2.50	0.43
1:F:55:GLY:N	1:F:335:SER:OG	2.49	0.43
1:F:77:ASP:HB2	1:F:522:PRO:O	2.19	0.43
1:F:664:GLU:HG3	1:G:659:LEU:HD22	1.99	0.43
1:G:695:GLU:HA	1:G:698:HIS:ND1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:248:LYS:HG2	1:H:511:ARG:HH21	1.83	0.43
1:H:83:LYS:HD2	1:H:515:GLU:CG	2.49	0.43
1:I:114:ALA:O	1:I:118:GLN:HB2	2.18	0.43
1:I:21:ALA:HB1	1:I:157:ILE:HB	2.01	0.43
1:K:695:GLU:HA	1:K:698:HIS:ND1	2.33	0.43
1:K:514:TYR:HB2	1:L:136:SER:OG	2.18	0.43
1:L:546:THR:OG1	1:L:547:PRO:HD3	2.19	0.43
1:L:591:GLN:HA	1:L:595:GLU:CD	2.38	0.43
1:B:133:GLU:O	1:B:137:PRO:HB3	2.19	0.43
1:C:434:THR:HG21	1:D:72:ARG:HG3	2.01	0.43
1:D:201:PHE:HD1	1:D:283:CYS:HB2	1.84	0.43
1:E:117:GLU:OE1	1:E:124:GLY:HA2	2.19	0.43
1:E:223:TYR:HE1	1:E:278:LYS:HG3	1.83	0.43
1:E:436:ASN:HA	1:E:439:ASN:ND2	2.34	0.43
1:H:252:LYS:HD2	1:H:256:ASP:HB3	2.00	0.43
1:H:89:ASP:O	1:H:92:ASP:HB2	2.18	0.43
1:I:248:LYS:HE3	1:I:252:LYS:HB2	2.00	0.43
1:I:528:LYS:NZ	1:I:559:LEU:O	2.44	0.43
1:I:640:GLU:HA	1:I:643:ASN:HD22	1.83	0.43
1:I:642:GLN:HA	1:I:645:LEU:HD12	1.99	0.43
1:I:695:GLU:HA	1:I:698:HIS:ND1	2.33	0.43
1:J:53:TYR:CG	1:J:54:ARG:N	2.86	0.43
1:J:609:VAL:O	1:J:612:GLN:HB2	2.19	0.43
1:J:663:SER:HA	1:J:666:ARG:NE	2.29	0.43
1:K:193:LEU:HD23	1:K:193:LEU:HA	1.90	0.43
1:K:403:TYR:OH	1:L:397:VAL:HG11	2.19	0.43
1:L:72:ARG:HH22	1:L:112:ASN:HA	1.83	0.43
1:A:373:LEU:HD21	1:L:356:ILE:HG21	2.01	0.43
1:A:609:VAL:O	1:A:612:GLN:HB2	2.19	0.43
1:B:353:PRO:HD3	1:C:374:LEU:O	2.19	0.43
1:B:383:ASP:O	1:B:384:LEU:HD12	2.19	0.43
1:C:47:GLN:HB2	1:C:50:THR:CG2	2.48	0.43
1:C:695:GLU:HA	1:C:698:HIS:CE1	2.54	0.43
1:D:383:ASP:O	1:D:384:LEU:HD12	2.18	0.43
1:D:662:GLN:HA	1:D:665:PHE:CD2	2.54	0.43
1:F:383:ASP:O	1:F:384:LEU:HD12	2.18	0.43
1:G:235:TYR:CE1	1:G:264:ILE:HA	2.53	0.43
1:H:193:LEU:HD21	1:H:288:LYS:HZ3	1.82	0.43
1:H:303:VAL:HG12	1:H:439:ASN:HB3	1.99	0.43
1:H:642:GLN:HA	1:H:645:LEU:HD12	2.01	0.43
1:I:35:PHE:CZ	1:I:321:ARG:HB2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:333:ILE:HG22	1:I:337:ASN:OD1	2.18	0.43
1:I:78:VAL:HA	1:I:520:VAL:HA	2.00	0.43
1:I:70:GLU:O	1:I:73:GLN:HG3	2.18	0.43
1:J:21:ALA:HA	1:J:159:ASP:OD2	2.19	0.43
1:J:249:ARG:HG3	1:J:250:ASP:N	2.33	0.43
1:K:249:ARG:HG3	1:K:250:ASP:N	2.34	0.43
1:L:640:GLU:HA	1:L:643:ASN:HD22	1.84	0.43
1:A:146:ARG:HG2	1:A:148:PRO:HD3	2.01	0.43
1:A:376:ARG:HD2	1:L:352:TRP:CB	2.40	0.43
1:B:53:TYR:CG	1:B:54:ARG:N	2.87	0.43
1:C:662:GLN:HA	1:C:665:PHE:CD2	2.53	0.43
1:D:126:TRP:CD1	1:D:146:ARG:HG3	2.54	0.43
1:D:165:MET:HB3	1:D:304:PHE:CG	2.53	0.43
1:E:10:SER:O	1:E:14:ARG:HG2	2.18	0.43
1:E:591:GLN:HA	1:E:595:GLU:CD	2.38	0.43
1:G:120:GLU:HA	1:G:320:VAL:HB	1.99	0.43
1:G:383:ASP:O	1:G:384:LEU:HD12	2.18	0.43
1:G:272:LYS:N	1:H:134:ASP:OD2	2.52	0.43
1:H:162:SER:HB2	1:H:170:ALA:HB2	1.99	0.43
1:H:168:SER:HA	1:H:297:HIS:NE2	2.34	0.43
1:I:47:GLN:HB2	1:I:50:THR:HG21	2.01	0.43
1:I:662:GLN:HA	1:I:665:PHE:CD2	2.53	0.43
1:K:350:PHE:CE1	1:L:372:TYR:HB3	2.53	0.43
1:K:429:GLN:HA	1:K:432:PHE:HD2	1.84	0.43
1:K:525:GLN:HB2	1:K:529:GLN:OE1	2.19	0.43
1:K:593:LEU:O	1:K:597:GLN:HG3	2.19	0.43
1:L:21:ALA:HB2	1:L:172:HIS:CD2	2.54	0.43
1:B:355:GLN:HA	1:B:375:ASN:HB3	2.01	0.43
1:C:162:SER:OG	1:C:167:LYS:HA	2.19	0.43
1:C:233:PHE:HB2	1:C:249:ARG:HB3	1.99	0.43
1:E:133:GLU:O	1:E:137:PRO:HB3	2.19	0.43
1:E:193:LEU:HD21	1:E:288:LYS:HZ1	1.82	0.43
1:F:354:GLU:HG2	1:G:376:ARG:HD3	2.00	0.43
1:H:24:GLU:HB2	1:H:159:ASP:OD2	2.19	0.43
1:H:444:LEU:O	1:H:448:VAL:HG23	2.18	0.43
1:I:612:GLN:O	1:I:615:LEU:HD22	2.19	0.43
1:I:438:LEU:HD11	1:J:108:LYS:HD3	1.99	0.43
1:J:38:VAL:HG22	1:J:43:ASP:OD1	2.19	0.43
1:K:233:PHE:HB2	1:K:249:ARG:HB3	2.00	0.43
1:K:225:VAL:HG22	1:K:276:VAL:HG12	2.01	0.43
1:K:193:LEU:HD21	1:K:288:LYS:HZ3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:410:SER:O	1:K:413:LYS:HG2	2.18	0.43
1:K:434:THR:HG21	1:L:72:ARG:HG3	2.01	0.43
1:K:42:ASP:HB3	1:K:44:TRP:HD1	1.82	0.43
1:B:538:LEU:HB3	1:B:551:LEU:HD11	2.01	0.43
1:C:161:ASN:ND2	1:D:183:GLY:HA3	2.34	0.43
1:C:538:LEU:HB3	1:C:551:LEU:HD11	2.01	0.43
1:D:99:ARG:NE	1:D:525:GLN:O	2.52	0.43
1:E:333:ILE:HG22	1:E:337:ASN:OD1	2.18	0.43
1:E:47:GLN:HB2	1:E:50:THR:HG21	1.99	0.43
1:F:228:LYS:HB2	1:F:275:ARG:HB3	2.01	0.43
1:G:99:ARG:NH2	1:G:525:GLN:HA	2.34	0.43
1:H:621:GLU:OE2	1:I:616:LEU:HA	2.19	0.43
1:I:663:SER:HA	1:I:666:ARG:HG2	2.01	0.43
1:L:613:GLY:O	1:L:616:LEU:N	2.51	0.43
1:A:559:LEU:HB3	1:A:565:VAL:HB	2.01	0.42
1:B:75:PRO:HD2	1:B:523:SER:HB3	2.01	0.42
1:C:117:GLU:OE1	1:C:124:GLY:HA2	2.19	0.42
1:C:323:THR:HG22	1:C:415:VAL:CG2	2.49	0.42
1:C:411:ALA:O	1:C:415:VAL:HG22	2.19	0.42
1:D:57:PHE:HB2	1:D:334:MET:SD	2.59	0.42
1:E:525:GLN:HB2	1:E:529:GLN:OE1	2.19	0.42
1:F:133:GLU:O	1:F:137:PRO:HB3	2.19	0.42
1:F:146:ARG:HG2	1:F:148:PRO:HD3	2.01	0.42
1:F:32:ASP:HA	1:F:35:PHE:CD2	2.54	0.42
1:F:380:ASN:OD1	1:F:381:SER:N	2.50	0.42
1:F:398:PRO:O	1:F:399:GLN:HG2	2.19	0.42
1:G:275:ARG:NH2	1:G:293:ILE:O	2.38	0.42
1:H:338:ALA:O	1:H:342:ALA:N	2.52	0.42
1:H:514:TYR:HB2	1:I:136:SER:OG	2.19	0.42
1:I:353:PRO:HD3	1:J:374:LEU:O	2.19	0.42
1:I:538:LEU:O	1:I:542:THR:OG1	2.37	0.42
1:I:559:LEU:HB3	1:I:565:VAL:HB	2.01	0.42
1:K:35:PHE:CZ	1:K:321:ARG:HB2	2.54	0.42
1:K:559:LEU:HB3	1:K:565:VAL:HB	2.01	0.42
1:L:110:ALA:HB1	1:L:126:TRP:CE3	2.53	0.42
1:L:429:GLN:HA	1:L:432:PHE:CD2	2.53	0.42
1:A:126:TRP:CD1	1:A:146:ARG:HG3	2.54	0.42
1:A:99:ARG:NH2	1:A:525:GLN:HA	2.34	0.42
1:B:252:LYS:HD2	1:B:256:ASP:HB3	2.01	0.42
1:C:114:ALA:O	1:C:118:GLN:HB2	2.19	0.42
1:C:42:ASP:HB3	1:C:44:TRP:HD1	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:564:GLY:O	1:C:568:MET:HG2	2.19	0.42
1:D:664:GLU:HG3	1:E:659:LEU:HD22	2.01	0.42
1:E:403:TYR:OH	1:F:397:VAL:HG11	2.19	0.42
1:F:436:ASN:HA	1:F:439:ASN:ND2	2.34	0.42
1:F:695:GLU:HA	1:F:698:HIS:ND1	2.34	0.42
1:I:248:LYS:CD	1:I:251:ILE:HB	2.42	0.42
1:I:538:LEU:HB3	1:I:551:LEU:HD11	2.01	0.42
1:J:133:GLU:O	1:J:137:PRO:HB3	2.19	0.42
1:J:578:GLN:HA	1:J:597:GLN:HE21	1.83	0.42
1:L:231:THR:HG22	1:L:249:ARG:HE	1.84	0.42
1:B:10:SER:O	1:B:14:ARG:HG2	2.19	0.42
1:C:31:ASN:O	1:C:35:PHE:HD2	2.02	0.42
1:C:383:ASP:O	1:C:384:LEU:HD12	2.19	0.42
1:D:430:VAL:O	1:D:433:ASP:HB2	2.20	0.42
1:D:546:THR:OG1	1:D:547:PRO:HD3	2.19	0.42
1:E:297:HIS:CG	1:E:298:ILE:H	2.38	0.42
1:E:70:GLU:O	1:E:73:GLN:HG3	2.18	0.42
1:H:21:ALA:HB2	1:H:172:HIS:NE2	2.34	0.42
1:H:42:ASP:OD2	1:H:44:TRP:NE1	2.53	0.42
1:I:383:ASP:O	1:I:384:LEU:HD12	2.19	0.42
1:K:444:LEU:HD23	1:K:518:THR:HB	2.01	0.42
1:L:649:ARG:O	1:L:653:ILE:HG13	2.19	0.42
1:A:204:PRO:HD3	1:A:218:GLN:HG2	2.01	0.42
1:B:309:PHE:HB2	1:C:150:HIS:HB2	2.01	0.42
1:C:400:ALA:O	1:C:404:MET:HB2	2.19	0.42
1:D:220:ALA:CB	1:D:281:ILE:O	2.52	0.42
1:E:661:LYS:HE3	1:E:665:PHE:CZ	2.54	0.42
1:E:514:TYR:HB2	1:F:136:SER:OG	2.18	0.42
1:F:152:ALA:HA	1:F:155:HIS:HB2	2.01	0.42
1:G:21:ALA:HB1	1:G:157:ILE:HB	2.01	0.42
1:H:126:TRP:CD1	1:H:146:ARG:HG3	2.54	0.42
1:H:204:PRO:HD3	1:H:218:GLN:HG2	2.02	0.42
1:H:320:VAL:O	1:H:324:LYS:HG3	2.20	0.42
1:J:223:TYR:CE1	1:J:278:LYS:HG3	2.55	0.42
1:J:27:ARG:HH11	1:J:313:LYS:HE3	1.84	0.42
1:L:613:GLY:HA2	1:L:616:LEU:HD12	2.01	0.42
1:A:337:ASN:HA	1:A:340:ILE:HD12	2.01	0.42
1:A:374:LEU:O	1:L:353:PRO:HD3	2.18	0.42
1:A:590:GLN:HA	1:A:594:VAL:HB	2.01	0.42
1:A:695:GLU:HA	1:A:698:HIS:ND1	2.35	0.42
1:B:281:ILE:HG23	1:B:286:VAL:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:133:GLU:O	1:C:137:PRO:HB3	2.19	0.42
1:D:233:PHE:HB2	1:D:249:ARG:HB3	2.01	0.42
1:D:363:TYR:CE1	1:D:372:TYR:HA	2.54	0.42
1:D:72:ARG:HH22	1:D:112:ASN:HA	1.84	0.42
1:E:24:GLU:HB2	1:E:159:ASP:OD2	2.20	0.42
1:E:53:TYR:O	1:E:54:ARG:NH1	2.48	0.42
1:D:614:VAL:HG11	1:E:609:VAL:HG11	2.00	0.42
1:E:78:VAL:HA	1:E:520:VAL:HA	2.02	0.42
1:G:248:LYS:CD	1:G:251:ILE:HB	2.44	0.42
1:G:31:ASN:O	1:G:35:PHE:HD2	2.02	0.42
1:H:586:THR:CG2	1:H:590:GLN:HE22	2.27	0.42
1:I:26:ARG:O	1:I:30:LYS:HG3	2.19	0.42
1:I:57:PHE:HB2	1:I:334:MET:SD	2.60	0.42
1:I:80:TYR:CZ	1:I:516:CYS:HB2	2.54	0.42
1:J:65:ARG:O	1:J:69:SER:HB2	2.20	0.42
1:K:133:GLU:O	1:K:137:PRO:HB3	2.19	0.42
1:K:99:ARG:NE	1:K:525:GLN:O	2.51	0.42
1:L:447:TYR:O	1:L:450:GLN:HB3	2.19	0.42
1:L:671:THR:HG22	1:L:675:PHE:CZ	2.54	0.42
1:A:281:ILE:HG12	1:A:287:LEU:H	1.84	0.42
1:A:652:GLU:O	1:A:656:ASN:HB2	2.19	0.42
1:B:77:ASP:HB2	1:B:522:PRO:O	2.18	0.42
1:D:411:ALA:O	1:D:415:VAL:HG22	2.19	0.42
1:D:429:GLN:HA	1:D:432:PHE:HD2	1.84	0.42
1:D:663:SER:HA	1:D:666:ARG:HG2	2.01	0.42
1:E:233:PHE:HB2	1:E:249:ARG:HB3	2.01	0.42
1:E:26:ARG:O	1:E:30:LYS:HG3	2.20	0.42
1:E:320:VAL:O	1:E:324:LYS:HG3	2.20	0.42
1:E:701:ARG:HA	1:E:704:ILE:HD12	2.02	0.42
1:G:232:ALA:HA	1:G:269:ARG:H	1.84	0.42
1:H:248:LYS:CD	1:H:251:ILE:HB	2.41	0.42
1:I:444:LEU:HD23	1:I:518:THR:HB	2.00	0.42
1:J:248:LYS:CD	1:J:251:ILE:HB	2.43	0.42
1:J:663:SER:HA	1:J:666:ARG:HG2	2.02	0.42
1:K:447:TYR:O	1:K:450:GLN:HB3	2.19	0.42
1:L:21:ALA:HB2	1:L:172:HIS:NE2	2.35	0.42
1:L:252:LYS:HD2	1:L:256:ASP:HB3	2.01	0.42
1:A:21:ALA:HB1	1:A:157:ILE:HB	2.00	0.42
1:A:31:ASN:O	1:A:35:PHE:HD2	2.01	0.42
1:B:165:MET:HB3	1:B:304:PHE:CG	2.55	0.42
1:B:236:GLN:HG2	1:B:244:VAL:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:53:TYR:O	1:C:54:ARG:NH1	2.50	0.42
1:D:695:GLU:HA	1:D:698:HIS:ND1	2.35	0.42
1:E:31:ASN:O	1:E:35:PHE:HD2	2.02	0.42
1:F:338:ALA:O	1:F:342:ALA:N	2.52	0.42
1:G:142:GLN:NE2	1:G:455:THR:OG1	2.53	0.42
1:G:546:THR:OG1	1:G:547:PRO:HD3	2.19	0.42
1:J:10:SER:O	1:J:14:ARG:HG2	2.20	0.42
1:L:420:VAL:HB	1:L:424:ALA:HA	2.00	0.42
1:A:193:LEU:HD23	1:A:193:LEU:HA	1.92	0.42
1:A:252:LYS:HD2	1:A:256:ASP:HB3	2.00	0.42
1:A:297:HIS:CG	1:A:298:ILE:H	2.37	0.42
1:B:307:TRP:HE1	1:B:314:GLU:HG2	1.85	0.42
1:B:539:LEU:HG	1:B:551:LEU:HD22	2.02	0.42
1:A:653:ILE:HG12	1:B:648:ALA:HA	2.01	0.42
1:D:117:GLU:OE1	1:D:124:GLY:HA2	2.19	0.42
1:D:248:LYS:CD	1:D:251:ILE:HB	2.44	0.42
1:E:162:SER:OG	1:E:167:LYS:HA	2.20	0.42
1:E:275:ARG:NH2	1:E:293:ILE:O	2.40	0.42
1:E:564:GLY:O	1:E:568:MET:HG2	2.19	0.42
1:G:249:ARG:HG3	1:G:250:ASP:N	2.34	0.42
1:G:354:GLU:HG2	1:H:376:ARG:HD3	2.01	0.42
1:H:383:ASP:O	1:H:384:LEU:HD12	2.19	0.42
1:I:24:GLU:HB2	1:I:159:ASP:OD2	2.20	0.42
1:I:404:MET:HA	1:I:407:ALA:HB3	2.02	0.42
1:J:411:ALA:O	1:J:415:VAL:HG22	2.19	0.42
1:I:411:ALA:HA	1:J:57:PHE:HE1	1.83	0.42
1:K:546:THR:OG1	1:K:547:PRO:HD3	2.19	0.42
1:K:613:GLY:HA2	1:K:616:LEU:CD1	2.46	0.42
1:B:21:ALA:HB2	1:B:172:HIS:CD2	2.55	0.42
1:B:81:ARG:HB2	1:B:517:TYR:CZ	2.55	0.42
1:C:38:VAL:HG22	1:C:43:ASP:OD1	2.20	0.42
1:C:609:VAL:O	1:C:612:GLN:HB2	2.20	0.42
1:D:203:ASN:HD21	1:D:209:PHE:HZ	1.68	0.42
1:D:120:GLU:HA	1:D:320:VAL:HB	2.01	0.42
1:E:89:ASP:O	1:E:92:ASP:HB2	2.20	0.42
1:E:99:ARG:O	1:E:103:ARG:N	2.53	0.42
1:F:193:LEU:HD23	1:F:193:LEU:HA	1.88	0.42
1:F:246:TYR:HB2	1:F:511:ARG:H	1.85	0.42
1:F:78:VAL:HA	1:F:520:VAL:HA	2.01	0.42
1:H:235:TYR:HE1	1:H:264:ILE:HA	1.85	0.42
1:H:434:THR:HG21	1:I:72:ARG:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:75:PRO:HD2	1:H:523:SER:HB3	2.01	0.42
1:I:622:LEU:O	1:I:626:GLN:HG3	2.20	0.42
1:L:297:HIS:CG	1:L:298:ILE:N	2.87	0.42
1:L:538:LEU:O	1:L:542:THR:OG1	2.38	0.42
1:A:21:ALA:HB2	1:A:172:HIS:CD2	2.54	0.42
1:C:307:TRP:HE1	1:C:314:GLU:HG2	1.85	0.42
1:C:649:ARG:O	1:C:653:ILE:HG13	2.20	0.42
1:D:623:ALA:O	1:D:626:GLN:HB2	2.20	0.42
1:D:628:GLN:O	1:D:632:LEU:HB2	2.19	0.42
1:E:176:ILE:HD11	1:E:204:PRO:HB3	2.01	0.42
1:E:623:ALA:O	1:E:626:GLN:HB2	2.19	0.42
1:G:642:GLN:HA	1:G:645:LEU:HD12	2.01	0.42
1:H:235:TYR:HA	1:H:265:LYS:O	2.20	0.42
1:H:447:TYR:O	1:H:450:GLN:HB3	2.20	0.42
1:I:21:ALA:HB2	1:I:172:HIS:CD2	2.54	0.42
1:J:162:SER:OG	1:J:164:LEU:O	2.38	0.42
1:K:297:HIS:CG	1:K:298:ILE:N	2.88	0.42
1:B:55:GLY:N	1:B:335:SER:OG	2.52	0.41
1:C:236:GLN:HA	1:C:245:SER:H	1.85	0.41
1:C:448:VAL:HG12	1:C:514:TYR:CE1	2.55	0.41
1:C:622:LEU:O	1:C:626:GLN:HG3	2.20	0.41
1:D:35:PHE:CZ	1:D:321:ARG:HB2	2.55	0.41
1:E:532:ARG:HH22	1:E:560:LEU:HD11	1.85	0.41
1:D:581:VAL:HG22	1:E:567:MET:HB2	2.01	0.41
1:E:660:SER:O	1:E:663:SER:OG	2.24	0.41
1:F:124:GLY:CA	1:F:303:VAL:HG22	2.49	0.41
1:F:47:GLN:HB2	1:F:50:THR:HG21	2.02	0.41
1:G:117:GLU:OE1	1:G:124:GLY:HA2	2.20	0.41
1:G:527:MET:HA	1:G:530:GLN:CD	2.40	0.41
1:G:628:GLN:O	1:G:632:LEU:HB2	2.19	0.41
1:G:641:ALA:HA	1:G:644:GLN:OE1	2.20	0.41
1:H:231:THR:HG22	1:H:249:ARG:HE	1.85	0.41
1:H:410:SER:O	1:H:413:LYS:HG2	2.20	0.41
1:J:162:SER:OG	1:J:167:LYS:HA	2.20	0.41
1:J:297:HIS:CG	1:J:298:ILE:H	2.37	0.41
1:K:532:ARG:HH22	1:K:560:LEU:HD11	1.85	0.41
1:L:31:ASN:O	1:L:35:PHE:HD2	2.02	0.41
1:A:83:LYS:HD2	1:A:515:GLU:CG	2.50	0.41
1:B:238:PRO:HB3	1:B:263:PHE:CD1	2.55	0.41
1:B:325:ASP:HA	1:B:328:ARG:NH1	2.36	0.41
1:B:695:GLU:HA	1:B:698:HIS:ND1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:151:SER:O	1:C:155:HIS:ND1	2.44	0.41
1:C:162:SER:HB2	1:C:170:ALA:HB2	2.02	0.41
1:C:248:LYS:CD	1:C:251:ILE:HB	2.43	0.41
1:C:357:ALA:HA	1:C:360:GLU:OE2	2.20	0.41
1:C:47:GLN:HB2	1:C:50:THR:HG21	2.01	0.41
1:C:710:SER:O	1:C:714:ASN:HB2	2.20	0.41
1:D:248:LYS:HE3	1:D:252:LYS:HB2	2.02	0.41
1:D:323:THR:HG22	1:D:415:VAL:CG2	2.50	0.41
1:D:564:GLY:O	1:D:568:MET:HG2	2.19	0.41
1:D:663:SER:O	1:D:666:ARG:HG3	2.19	0.41
1:E:171:ARG:NH1	1:F:186:ASP:OD2	2.52	0.41
1:F:233:PHE:HB2	1:F:249:ARG:HB3	2.02	0.41
1:G:21:ALA:HB2	1:G:172:HIS:CD2	2.54	0.41
1:G:403:TYR:OH	1:H:397:VAL:HG11	2.21	0.41
1:H:695:GLU:HA	1:H:698:HIS:ND1	2.34	0.41
1:I:133:GLU:O	1:I:137:PRO:HB3	2.20	0.41
1:I:307:TRP:HE1	1:I:314:GLU:HG2	1.85	0.41
1:J:146:ARG:HG2	1:J:148:PRO:HD3	2.02	0.41
1:J:275:ARG:HD2	1:J:296:GLU:HG2	2.02	0.41
1:J:57:PHE:HB2	1:J:334:MET:SD	2.60	0.41
1:J:546:THR:OG1	1:J:547:PRO:HD3	2.19	0.41
1:J:564:GLY:O	1:J:568:MET:HG2	2.20	0.41
1:K:652:GLU:O	1:K:656:ASN:HB2	2.21	0.41
1:L:386:THR:HG22	1:L:387:GLN:N	2.35	0.41
1:C:231:THR:HG22	1:C:249:ARG:HE	1.85	0.41
1:C:120:GLU:HA	1:C:320:VAL:HB	2.02	0.41
1:D:444:LEU:HD23	1:D:518:THR:HB	2.01	0.41
1:E:35:PHE:H	1:E:35:PHE:HD2	1.68	0.41
1:F:623:ALA:O	1:F:626:GLN:HB2	2.21	0.41
1:G:231:THR:HG22	1:G:249:ARG:HE	1.84	0.41
1:G:29:ALA:O	1:G:33:LEU:HB2	2.20	0.41
1:H:120:GLU:HA	1:H:320:VAL:HB	2.02	0.41
1:H:411:ALA:O	1:H:415:VAL:HG22	2.21	0.41
1:I:276:VAL:HG11	1:I:297:HIS:O	2.20	0.41
1:I:546:THR:OG1	1:I:547:PRO:HD3	2.21	0.41
1:I:591:GLN:HA	1:I:595:GLU:CD	2.40	0.41
1:J:235:TYR:HE1	1:J:264:ILE:HA	1.84	0.41
1:J:355:GLN:HA	1:J:375:ASN:HB3	2.02	0.41
1:L:441:ARG:O	1:L:444:LEU:HB3	2.20	0.41
1:L:527:MET:HA	1:L:530:GLN:CD	2.41	0.41
1:B:57:PHE:HB2	1:B:334:MET:SD	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:72:ARG:NH2	1:C:111:VAL:HG12	2.34	0.41
1:D:45:LEU:HG	1:D:46:SER:H	1.84	0.41
1:F:83:LYS:HD2	1:F:515:GLU:CG	2.51	0.41
1:G:110:ALA:HB1	1:G:126:TRP:CE3	2.56	0.41
1:H:246:TYR:HB2	1:H:511:ARG:H	1.85	0.41
1:H:389:LEU:HD23	1:H:389:LEU:HA	1.89	0.41
1:I:297:HIS:CG	1:I:298:ILE:H	2.38	0.41
1:J:398:PRO:O	1:J:399:GLN:HG2	2.20	0.41
1:J:593:LEU:O	1:J:597:GLN:HG3	2.21	0.41
1:J:83:LYS:HD2	1:J:515:GLU:CG	2.50	0.41
1:K:509:ASP:OD2	1:K:513:ARG:NH2	2.53	0.41
1:L:641:ALA:HA	1:L:644:GLN:OE1	2.21	0.41
1:A:438:LEU:O	1:A:442:ALA:N	2.42	0.41
1:A:646:ASN:HA	1:B:644:GLN:HG2	2.02	0.41
1:B:231:THR:HG22	1:B:249:ARG:HE	1.85	0.41
1:A:411:ALA:HA	1:B:57:PHE:HE1	1.84	0.41
1:C:386:THR:HG22	1:C:387:GLN:N	2.35	0.41
1:C:621:GLU:OE2	1:D:616:LEU:HA	2.20	0.41
1:C:623:ALA:HA	1:C:626:GLN:CD	2.41	0.41
1:C:628:GLN:O	1:C:632:LEU:HB2	2.21	0.41
1:D:386:THR:HG22	1:D:387:GLN:N	2.35	0.41
1:D:441:ARG:O	1:D:444:LEU:HB3	2.21	0.41
1:E:193:LEU:HA	1:E:193:LEU:HD23	1.91	0.41
1:F:231:THR:HG22	1:F:249:ARG:HE	1.85	0.41
1:F:386:THR:HG22	1:F:387:GLN:N	2.36	0.41
1:F:509:ASP:OD2	1:F:513:ARG:NH2	2.53	0.41
1:F:546:THR:OG1	1:F:547:PRO:HD3	2.21	0.41
1:G:320:VAL:O	1:G:323:THR:OG1	2.21	0.41
1:G:663:SER:HA	1:G:666:ARG:HG2	2.01	0.41
1:H:564:GLY:O	1:H:568:MET:HG2	2.20	0.41
1:I:105:ASN:O	1:I:109:ILE:HG12	2.21	0.41
1:J:320:VAL:O	1:J:324:LYS:HG3	2.21	0.41
1:K:120:GLU:HA	1:K:320:VAL:HB	2.03	0.41
1:K:333:ILE:HG22	1:K:337:ASN:OD1	2.20	0.41
1:L:162:SER:OG	1:L:167:LYS:HA	2.20	0.41
1:L:47:GLN:HB2	1:L:50:THR:HG21	2.02	0.41
1:L:623:ALA:HA	1:L:626:GLN:CD	2.40	0.41
1:A:110:ALA:HB1	1:A:126:TRP:CE3	2.56	0.41
1:A:436:ASN:HA	1:A:439:ASN:ND2	2.34	0.41
1:B:447:TYR:O	1:B:450:GLN:HB3	2.20	0.41
1:B:541:LYS:HB3	1:B:541:LYS:HE2	1.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:281:ILE:HG23	1:C:286:VAL:HA	2.03	0.41
1:C:546:THR:OG1	1:C:547:PRO:HD3	2.19	0.41
1:E:106:THR:HG23	1:E:146:ARG:HE	1.86	0.41
1:E:232:ALA:HA	1:E:269:ARG:H	1.86	0.41
1:F:151:SER:HB3	1:F:154:SER:OG	2.20	0.41
1:G:38:VAL:HG22	1:G:43:ASP:OD1	2.20	0.41
1:G:526:SER:O	1:G:530:GLN:N	2.49	0.41
1:H:276:VAL:HG23	1:H:293:ILE:HD13	2.02	0.41
1:I:126:TRP:CD1	1:I:146:ARG:HG3	2.56	0.41
1:I:70:GLU:OE1	1:I:429:GLN:HG3	2.21	0.41
1:J:47:GLN:HB2	1:J:50:THR:CG2	2.50	0.41
1:J:622:LEU:O	1:J:626:GLN:HG3	2.21	0.41
1:K:117:GLU:OE1	1:K:124:GLY:HA2	2.20	0.41
1:K:231:THR:HG22	1:K:249:ARG:HE	1.86	0.41
1:K:232:ALA:HA	1:K:269:ARG:H	1.85	0.41
1:K:389:LEU:HD23	1:K:389:LEU:HA	1.90	0.41
1:L:26:ARG:O	1:L:30:LYS:HG3	2.21	0.41
1:L:77:ASP:HB2	1:L:523:SER:HA	2.03	0.41
1:A:329:LEU:O	1:A:333:ILE:HG13	2.21	0.41
1:A:350:PHE:CE1	1:B:372:TYR:HB3	2.56	0.41
1:B:546:THR:OG1	1:B:547:PRO:HD3	2.21	0.41
1:D:281:ILE:HG23	1:D:286:VAL:HA	2.02	0.41
1:D:296:GLU:HB2	1:D:449:PHE:CD2	2.39	0.41
1:F:514:TYR:HB2	1:G:136:SER:OG	2.20	0.41
1:G:386:THR:HG22	1:G:387:GLN:N	2.35	0.41
1:I:231:THR:HG22	1:I:249:ARG:HE	1.85	0.41
1:I:238:PRO:HB3	1:I:263:PHE:CE1	2.56	0.41
1:L:193:LEU:HD21	1:L:288:LYS:HZ3	1.86	0.41
1:K:353:PRO:HD3	1:L:374:LEU:O	2.21	0.41
1:L:623:ALA:O	1:L:626:GLN:HB2	2.21	0.41
1:L:652:GLU:O	1:L:656:ASN:HB2	2.20	0.41
1:L:83:LYS:HD2	1:L:515:GLU:CG	2.50	0.41
1:B:275:ARG:HD2	1:B:296:GLU:HG2	2.03	0.41
1:B:31:ASN:O	1:B:35:PHE:HD2	2.03	0.41
1:B:359:PHE:HB3	1:B:363:TYR:HE2	1.85	0.41
1:A:398:PRO:HB3	1:B:394:ASN:HB3	2.03	0.41
1:C:72:ARG:HH21	1:C:111:VAL:HG12	1.86	0.41
1:E:151:SER:HB2	1:E:155:HIS:CE1	2.55	0.41
1:E:710:SER:O	1:E:714:ASN:HB2	2.21	0.41
1:F:458:ARG:NH2	1:F:500:ALA:HB1	2.36	0.41
1:F:663:SER:HA	1:F:666:ARG:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:546:THR:OG1	1:H:547:PRO:HD3	2.20	0.41
1:I:110:ALA:HB1	1:I:126:TRP:CE3	2.55	0.41
1:I:38:VAL:HG22	1:I:43:ASP:OD1	2.21	0.41
1:J:238:PRO:HB3	1:J:263:PHE:CE1	2.56	0.41
1:J:646:ASN:HA	1:K:644:GLN:HG2	2.03	0.41
1:J:667:GLU:HG2	1:K:666:ARG:CZ	2.51	0.41
1:K:26:ARG:O	1:K:30:LYS:HG3	2.21	0.41
1:K:436:ASN:HA	1:K:439:ASN:ND2	2.35	0.41
1:L:509:ASP:OD1	1:L:509:ASP:N	2.54	0.41
1:L:538:LEU:HB3	1:L:551:LEU:HD11	2.03	0.41
1:A:276:VAL:HG11	1:A:297:HIS:O	2.20	0.41
1:A:386:THR:HG22	1:A:387:GLN:N	2.35	0.41
1:A:623:ALA:O	1:A:626:GLN:HB2	2.20	0.41
1:C:297:HIS:CG	1:C:298:ILE:H	2.38	0.41
1:C:57:PHE:HB2	1:C:334:MET:SD	2.61	0.41
1:C:538:LEU:O	1:C:542:THR:OG1	2.38	0.41
1:B:614:VAL:HG11	1:C:609:VAL:HG11	2.03	0.41
1:E:225:VAL:HA	1:E:276:VAL:HG12	2.02	0.41
1:E:278:LYS:HB3	1:E:291:GLN:O	2.21	0.41
1:E:42:ASP:HB3	1:E:44:TRP:HD1	1.86	0.41
1:E:47:GLN:HB2	1:E:50:THR:CG2	2.51	0.41
1:G:220:ALA:CB	1:G:281:ILE:O	2.48	0.41
1:G:662:GLN:HA	1:G:665:PHE:CD2	2.55	0.41
1:H:127:ARG:HB3	1:H:147:GLU:HB2	2.02	0.41
1:H:203:ASN:HD21	1:H:209:PHE:HZ	1.69	0.41
1:H:306:GLU:OE2	1:I:61:ARG:NE	2.54	0.41
1:H:57:PHE:HB2	1:H:334:MET:SD	2.61	0.41
1:H:363:TYR:CE1	1:H:372:TYR:HA	2.53	0.41
1:H:593:LEU:O	1:H:597:GLN:HG3	2.21	0.41
1:I:236:GLN:HG2	1:I:244:VAL:H	1.86	0.41
1:I:359:PHE:HB3	1:I:363:TYR:HE2	1.86	0.41
1:I:649:ARG:O	1:I:653:ILE:HG13	2.20	0.41
1:K:238:PRO:HB3	1:K:263:PHE:CD1	2.56	0.41
1:K:663:SER:HA	1:K:666:ARG:NE	2.28	0.41
1:L:248:LYS:HG2	1:L:511:ARG:HH21	1.85	0.41
1:L:622:LEU:O	1:L:626:GLN:HG3	2.21	0.41
1:B:117:GLU:OE1	1:B:124:GLY:HA2	2.21	0.41
1:F:162:SER:OG	1:F:167:LYS:HA	2.20	0.41
1:F:448:VAL:HA	1:F:451:ASP:OD2	2.21	0.41
1:F:89:ASP:O	1:F:92:ASP:HB2	2.21	0.41
1:G:325:ASP:HA	1:G:328:ARG:NH1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:458:ARG:NH2	1:G:500:ALA:HB1	2.36	0.41
1:I:162:SER:OG	1:I:167:LYS:HA	2.20	0.41
1:I:225:VAL:HG22	1:I:276:VAL:HG12	2.03	0.41
1:I:410:SER:O	1:I:413:LYS:HG2	2.20	0.41
1:I:458:ARG:NH2	1:I:500:ALA:HB1	2.35	0.41
1:I:562:GLY:O	1:I:566:GLU:HG3	2.21	0.41
1:I:615:LEU:O	1:I:618:GLY:N	2.54	0.41
1:J:42:ASP:HB3	1:J:44:TRP:HD1	1.85	0.41
1:K:235:TYR:HA	1:K:265:LYS:O	2.21	0.41
1:K:359:PHE:HB2	1:K:360:GLU:H	1.78	0.41
1:K:407:ALA:HA	1:K:410:SER:HB2	2.03	0.41
1:L:10:SER:O	1:L:14:ARG:HG2	2.21	0.41
1:L:282:THR:HG23	1:L:284:THR:H	1.85	0.41
1:A:184:TRP:CZ3	1:A:199:PRO:HG3	2.56	0.41
1:A:47:GLN:HB2	1:A:50:THR:HG21	2.03	0.41
1:A:458:ARG:NH2	1:A:500:ALA:HB1	2.36	0.41
1:B:398:PRO:O	1:B:399:GLN:HG2	2.20	0.41
1:B:87:ARG:HD3	1:B:89:ASP:HB2	2.02	0.41
1:C:282:THR:HG23	1:C:284:THR:H	1.86	0.41
1:C:562:GLY:O	1:C:566:GLU:HG3	2.20	0.41
1:C:83:LYS:HD2	1:C:515:GLU:CG	2.51	0.41
1:D:282:THR:HG23	1:D:284:THR:H	1.86	0.41
1:D:448:VAL:HA	1:D:451:ASP:OD2	2.21	0.41
1:D:526:SER:O	1:D:530:GLN:N	2.47	0.41
1:D:663:SER:HA	1:D:666:ARG:NE	2.27	0.41
1:F:460:ASP:HA	1:F:499:LEU:O	2.21	0.41
1:F:574:LYS:O	1:F:578:GLN:HG3	2.21	0.41
1:G:165:MET:HB3	1:G:304:PHE:CG	2.56	0.41
1:G:236:GLN:HG2	1:G:244:VAL:H	1.86	0.41
1:H:72:ARG:HH21	1:H:111:VAL:HG12	1.86	0.41
1:H:297:HIS:CG	1:H:298:ILE:H	2.38	0.41
1:H:403:TYR:OH	1:I:397:VAL:HG11	2.20	0.41
1:I:527:MET:HA	1:I:530:GLN:CD	2.41	0.41
1:J:21:ALA:HB2	1:J:172:HIS:CD2	2.56	0.41
1:J:386:THR:HG22	1:J:387:GLN:N	2.35	0.41
1:L:438:LEU:O	1:L:442:ALA:N	2.42	0.41
1:A:114:ALA:O	1:A:118:GLN:HB2	2.20	0.40
1:A:233:PHE:HB2	1:A:249:ARG:HB3	2.03	0.40
1:C:176:ILE:HG21	1:C:201:PHE:CE2	2.56	0.40
1:C:35:PHE:H	1:C:35:PHE:HD2	1.68	0.40
1:D:26:ARG:O	1:D:30:LYS:HG3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:398:PRO:O	1:D:399:GLN:HG2	2.20	0.40
1:E:252:LYS:NZ	1:E:256:ASP:HB3	2.36	0.40
1:E:83:LYS:HD2	1:E:515:GLU:CG	2.52	0.40
1:F:556:TYR:HB3	1:F:572:ALA:CB	2.48	0.40
1:F:593:LEU:O	1:F:597:GLN:HG3	2.20	0.40
1:G:252:LYS:HD2	1:G:256:ASP:HB3	2.04	0.40
1:G:26:ARG:O	1:G:30:LYS:HG3	2.20	0.40
1:G:89:ASP:O	1:G:92:ASP:HB2	2.21	0.40
1:H:236:GLN:HG2	1:H:244:VAL:H	1.85	0.40
1:H:559:LEU:HB3	1:H:565:VAL:HB	2.04	0.40
1:J:662:GLN:HA	1:J:665:PHE:CD2	2.56	0.40
1:K:362:MET:HA	1:K:366:ASN:CB	2.50	0.40
1:K:83:LYS:HD2	1:K:515:GLU:CG	2.52	0.40
1:K:685:ALA:O	1:K:689:LEU:HG	2.21	0.40
1:L:248:LYS:CD	1:L:251:ILE:HB	2.45	0.40
1:L:259:ALA:HA	1:L:263:PHE:CD2	2.56	0.40
1:L:398:PRO:O	1:L:399:GLN:HG2	2.21	0.40
1:L:47:GLN:HB2	1:L:50:THR:CG2	2.51	0.40
1:A:183:GLY:HA3	1:L:161:ASN:ND2	2.33	0.40
1:A:35:PHE:HD2	1:A:35:PHE:H	1.69	0.40
1:A:644:GLN:HG2	1:L:646:ASN:HA	2.03	0.40
1:B:297:HIS:CG	1:B:298:ILE:H	2.38	0.40
1:B:363:TYR:CE1	1:B:372:TYR:HA	2.55	0.40
1:B:562:GLY:O	1:B:566:GLU:HG3	2.21	0.40
1:D:297:HIS:CG	1:D:298:ILE:N	2.90	0.40
1:D:35:PHE:HD2	1:D:35:PHE:H	1.68	0.40
1:D:323:THR:HG22	1:D:415:VAL:HG23	2.02	0.40
1:E:114:ALA:O	1:E:118:GLN:HB2	2.22	0.40
1:E:31:ASN:O	1:E:35:PHE:CD2	2.75	0.40
1:E:509:ASP:OD1	1:E:509:ASP:N	2.54	0.40
1:E:527:MET:HA	1:E:530:GLN:CD	2.41	0.40
1:F:117:GLU:OE1	1:F:124:GLY:HA2	2.21	0.40
1:F:10:SER:O	1:F:14:ARG:HG2	2.21	0.40
1:E:353:PRO:HD3	1:F:374:LEU:O	2.20	0.40
1:F:411:ALA:HA	1:G:57:PHE:HE1	1.86	0.40
1:G:105:ASN:O	1:G:109:ILE:HG12	2.20	0.40
1:G:276:VAL:HG11	1:G:297:HIS:O	2.21	0.40
1:G:581:VAL:HG22	1:H:567:MET:HB2	2.02	0.40
1:H:10:SER:O	1:H:14:ARG:HG2	2.21	0.40
1:H:573:ASN:HA	1:H:576:LEU:HD12	2.03	0.40
1:I:623:ALA:HA	1:I:626:GLN:CD	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:623:ALA:O	1:J:626:GLN:HB2	2.21	0.40
1:K:152:ALA:HA	1:K:155:HIS:HB2	2.04	0.40
1:K:411:ALA:O	1:K:415:VAL:HG22	2.21	0.40
1:L:117:GLU:OE1	1:L:124:GLY:HA2	2.22	0.40
1:A:116:ARG:NH2	1:L:306:GLU:HG3	2.36	0.40
1:L:609:VAL:O	1:L:612:GLN:HB2	2.20	0.40
1:A:398:PRO:CB	1:B:394:ASN:HB3	2.52	0.40
1:A:404:MET:HA	1:A:407:ALA:HB3	2.03	0.40
1:B:101:ASP:N	1:B:101:ASP:OD1	2.55	0.40
1:B:89:ASP:O	1:B:92:ASP:HB2	2.20	0.40
1:C:363:TYR:CE1	1:C:372:TYR:HA	2.56	0.40
1:D:133:GLU:O	1:D:137:PRO:HB3	2.21	0.40
1:D:15:PHE:HA	1:D:18:ASP:HB3	2.03	0.40
1:D:21:ALA:HB2	1:D:172:HIS:NE2	2.36	0.40
1:D:320:VAL:O	1:D:323:THR:OG1	2.19	0.40
1:E:83:LYS:HD2	1:E:515:GLU:HG3	2.03	0.40
1:G:562:GLY:O	1:G:566:GLU:HG3	2.21	0.40
1:H:176:ILE:HG21	1:H:201:PHE:CE2	2.56	0.40
1:I:64:VAL:HG22	1:I:119:ILE:HG21	2.04	0.40
1:L:278:LYS:HB3	1:L:291:GLN:O	2.21	0.40
1:A:546:THR:OG1	1:A:547:PRO:HD3	2.20	0.40
1:B:151:SER:O	1:B:155:HIS:ND1	2.43	0.40
1:B:526:SER:O	1:B:530:GLN:N	2.52	0.40
1:C:137:PRO:HG3	1:C:141:ASN:OD1	2.21	0.40
1:D:400:ALA:O	1:D:404:MET:HB2	2.22	0.40
1:F:609:VAL:O	1:F:612:GLN:HB2	2.22	0.40
1:F:657:MET:SD	1:G:655:ASN:ND2	2.94	0.40
1:G:374:LEU:HA	1:G:374:LEU:HD13	1.97	0.40
1:G:65:ARG:O	1:G:69:SER:HB2	2.22	0.40
1:G:161:ASN:ND2	1:H:183:GLY:HA3	2.37	0.40
1:H:47:GLN:HB2	1:H:50:THR:HG21	2.03	0.40
1:I:398:PRO:O	1:I:399:GLN:HG2	2.21	0.40
1:I:623:ALA:O	1:I:626:GLN:HB2	2.22	0.40
1:J:573:ASN:HA	1:J:576:LEU:HD12	2.03	0.40
1:K:657:MET:SD	1:L:655:ASN:ND2	2.94	0.40
1:L:248:LYS:CG	1:L:511:ARG:HH21	2.35	0.40
1:L:448:VAL:HA	1:L:451:ASP:OD2	2.21	0.40
1:A:527:MET:HA	1:A:530:GLN:CD	2.42	0.40
1:B:248:LYS:HE3	1:B:252:LYS:HB2	2.02	0.40
1:D:621:GLU:OE2	1:E:616:LEU:HB3	2.21	0.40
1:D:685:ALA:O	1:D:689:LEU:HG	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:42:ASP:HB3	1:F:44:TRP:HD1	1.87	0.40
1:G:297:HIS:CG	1:G:298:ILE:H	2.40	0.40
1:G:407:ALA:HA	1:G:410:SER:HB2	2.04	0.40
1:G:538:LEU:HB3	1:G:551:LEU:HD11	2.03	0.40
1:H:238:PRO:HB3	1:H:263:PHE:CE1	2.57	0.40
1:H:407:ALA:HA	1:H:410:SER:HB2	2.04	0.40
1:H:72:ARG:HH22	1:H:112:ASN:HA	1.85	0.40
1:H:78:VAL:HA	1:H:520:VAL:HA	2.04	0.40
1:K:236:GLN:OE1	1:K:265:LYS:HD3	2.22	0.40
1:K:441:ARG:O	1:K:444:LEU:HB3	2.22	0.40
1:K:663:SER:HA	1:K:666:ARG:HG2	2.04	0.40
1:K:87:ARG:HD3	1:K:89:ASP:HB2	2.02	0.40
1:L:626:GLN:O	1:L:630:LEU:HB2	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	669/725 (92%)	562 (84%)	102 (15%)	5 (1%)	22	63
1	B	669/725 (92%)	561 (84%)	103 (15%)	5 (1%)	22	63
1	C	669/725 (92%)	560 (84%)	104 (16%)	5 (1%)	22	63
1	D	669/725 (92%)	561 (84%)	103 (15%)	5 (1%)	22	63
1	E	669/725 (92%)	562 (84%)	101 (15%)	6 (1%)	17	57
1	F	669/725 (92%)	561 (84%)	103 (15%)	5 (1%)	22	63
1	G	669/725 (92%)	563 (84%)	100 (15%)	6 (1%)	17	57
1	H	669/725 (92%)	561 (84%)	103 (15%)	5 (1%)	22	63
1	I	669/725 (92%)	560 (84%)	105 (16%)	4 (1%)	25	66
1	J	669/725 (92%)	559 (84%)	106 (16%)	4 (1%)	25	66

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	K	669/725 (92%)	560 (84%)	104 (16%)	5 (1%)	22	63
1	L	669/725 (92%)	562 (84%)	101 (15%)	6 (1%)	17	57
All	All	8028/8700 (92%)	6732 (84%)	1235 (15%)	61 (1%)	19	60

All (61) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	58	ASP
1	B	58	ASP
1	C	58	ASP
1	D	58	ASP
1	E	58	ASP
1	F	58	ASP
1	G	58	ASP
1	H	58	ASP
1	I	58	ASP
1	J	58	ASP
1	K	58	ASP
1	L	58	ASP
1	A	587	PRO
1	C	587	PRO
1	D	587	PRO
1	H	587	PRO
1	I	587	PRO
1	B	587	PRO
1	E	587	PRO
1	F	587	PRO
1	G	587	PRO
1	J	587	PRO
1	K	587	PRO
1	L	587	PRO
1	A	203	ASN
1	B	203	ASN
1	C	203	ASN
1	D	203	ASN
1	E	31	ASN
1	E	203	ASN
1	F	203	ASN
1	G	120	GLU
1	G	203	ASN
1	H	203	ASN

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Mol	Chain	Res	Type
1	I	203	ASN
1	J	203	ASN
1	K	31	ASN
1	K	203	ASN
1	L	31	ASN
1	L	203	ASN
1	A	76	ILE
1	B	76	ILE
1	C	76	ILE
1	D	76	ILE
1	E	76	ILE
1	F	76	ILE
1	G	76	ILE
1	H	76	ILE
1	I	76	ILE
1	J	76	ILE
1	K	76	ILE
1	L	76	ILE
1	B	653	ILE
1	C	653	ILE
1	E	653	ILE
1	F	653	ILE
1	H	653	ILE
1	L	653	ILE
1	A	653	ILE
1	D	653	ILE
1	G	653	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 X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	572/630 (91%)	567 (99%)	5 (1%)	78 87
1	B	572/630 (91%)	566 (99%)	6 (1%)	76 86
1	C	572/630 (91%)	566 (99%)	6 (1%)	76 86

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	D	572/630 (91%)	568 (99%)	4 (1%)	84	90
1	E	572/630 (91%)	565 (99%)	7 (1%)	71	83
1	F	572/630 (91%)	565 (99%)	7 (1%)	71	83
1	G	572/630 (91%)	566 (99%)	6 (1%)	76	86
1	H	572/630 (91%)	568 (99%)	4 (1%)	84	90
1	I	572/630 (91%)	567 (99%)	5 (1%)	78	87
1	J	572/630 (91%)	567 (99%)	5 (1%)	78	87
1	K	572/630 (91%)	566 (99%)	6 (1%)	76	86
1	L	572/630 (91%)	567 (99%)	5 (1%)	78	87
All	All	6864/7560 (91%)	6798 (99%)	66 (1%)	76	86

All (66) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	164	LEU
1	A	277	TYR
1	A	403	TYR
1	A	615	LEU
1	A	616	LEU
1	B	142	GLN
1	B	164	LEU
1	B	277	TYR
1	B	403	TYR
1	B	615	LEU
1	B	616	LEU
1	C	142	GLN
1	C	164	LEU
1	C	277	TYR
1	C	403	TYR
1	C	615	LEU
1	C	616	LEU
1	D	164	LEU
1	D	277	TYR
1	D	403	TYR
1	D	616	LEU
1	E	142	GLN
1	E	164	LEU
1	E	277	TYR
1	E	403	TYR

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Mol	Chain	Res	Type
1	E	615	LEU
1	E	616	LEU
1	E	642	GLN
1	F	142	GLN
1	F	164	LEU
1	F	277	TYR
1	F	403	TYR
1	F	615	LEU
1	F	616	LEU
1	F	642	GLN
1	G	142	GLN
1	G	164	LEU
1	G	277	TYR
1	G	403	TYR
1	G	615	LEU
1	G	616	LEU
1	H	164	LEU
1	H	403	TYR
1	H	615	LEU
1	H	616	LEU
1	I	164	LEU
1	I	277	TYR
1	I	403	TYR
1	I	615	LEU
1	I	616	LEU
1	J	164	LEU
1	J	277	TYR
1	J	403	TYR
1	J	615	LEU
1	J	616	LEU
1	K	142	GLN
1	K	164	LEU
1	K	277	TYR
1	K	403	TYR
1	K	615	LEU
1	K	616	LEU
1	L	164	LEU
1	L	277	TYR
1	L	403	TYR
1	L	615	LEU
1	L	616	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (72) such

sidechains are listed below:

Mol	Chain	Res	Type
1	A	142	GLN
1	A	161	ASN
1	A	439	ASN
1	A	550	GLN
1	A	597	GLN
1	B	142	GLN
1	B	161	ASN
1	B	439	ASN
1	B	450	GLN
1	B	550	GLN
1	B	597	GLN
1	C	142	GLN
1	C	161	ASN
1	C	439	ASN
1	C	450	GLN
1	C	550	GLN
1	C	597	GLN
1	C	643	ASN
1	D	142	GLN
1	D	161	ASN
1	D	439	ASN
1	D	450	GLN
1	D	550	GLN
1	D	597	GLN
1	D	643	ASN
1	E	161	ASN
1	E	439	ASN
1	E	550	GLN
1	E	597	GLN
1	F	142	GLN
1	F	161	ASN
1	F	439	ASN
1	F	550	GLN
1	F	597	GLN
1	G	142	GLN
1	G	161	ASN
1	G	337	ASN
1	G	439	ASN
1	G	550	GLN
1	G	597	GLN
1	H	142	GLN
1	H	161	ASN

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Mol	Chain	Res	Type
1	H	439	ASN
1	H	450	GLN
1	H	550	GLN
1	H	597	GLN
1	I	142	GLN
1	I	161	ASN
1	I	450	GLN
1	I	550	GLN
1	I	597	GLN
1	I	643	ASN
1	I	696	GLN
1	J	142	GLN
1	J	161	ASN
1	J	439	ASN
1	J	450	GLN
1	J	550	GLN
1	J	597	GLN
1	J	643	ASN
1	K	142	GLN
1	K	161	ASN
1	K	337	ASN
1	K	439	ASN
1	K	450	GLN
1	K	550	GLN
1	K	597	GLN
1	L	142	GLN
1	L	161	ASN
1	L	450	GLN
1	L	550	GLN
1	L	597	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 [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data i

6.1 Protein, DNA and RNA chains i

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	673/725 (92%)	-0.71	1 (0%) 95 95	46, 96, 204, 282	0
1	B	673/725 (92%)	-0.69	0 100 100	31, 97, 169, 284	0
1	C	673/725 (92%)	-0.70	0 100 100	47, 81, 181, 288	0
1	D	673/725 (92%)	-0.68	0 100 100	51, 97, 160, 240	0
1	E	673/725 (92%)	-0.68	0 100 100	54, 100, 176, 292	0
1	F	673/725 (92%)	-0.68	0 100 100	73, 110, 184, 317	0
1	G	673/725 (92%)	-0.62	3 (0%) 92 87	71, 117, 190, 362	0
1	H	673/725 (92%)	-0.66	1 (0%) 95 95	77, 127, 205, 345	0
1	I	673/725 (92%)	-0.64	0 100 100	90, 134, 222, 333	0
1	J	673/725 (92%)	-0.62	3 (0%) 92 87	70, 139, 211, 312	0
1	K	673/725 (92%)	-0.67	1 (0%) 95 95	65, 113, 182, 250	0
1	L	673/725 (92%)	-0.70	0 100 100	63, 106, 203, 303	0
All	All	8076/8700 (92%)	-0.67	9 (0%) 95 95	31, 112, 196, 362	0

All (9) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	G	714	ASN	4.0
1	G	715	GLN	3.7
1	G	712	ARG	2.7
1	J	50	THR	2.5
1	H	715	GLN	2.4
1	J	715	GLN	2.4
1	A	386	THR	2.2
1	J	713	GLN	2.2
1	K	386	THR	2.0

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

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

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.