



Full wwPDB EM Validation Report ⓘ

Aug 8, 2026 – 10:12 AM EDT

PDB ID : 11MK / pdb_000011mk
EMDB ID : EMD-75836
Title : Bacteriophage Goslar Capsid Asymmetric Unit
Authors : Basu, D.; Gu, Y.; Corbett, K.D.
Deposited on : 2026-03-04
Resolution : 6.28 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

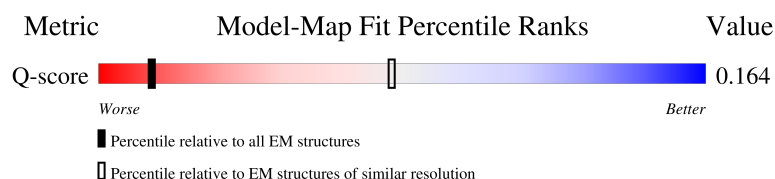
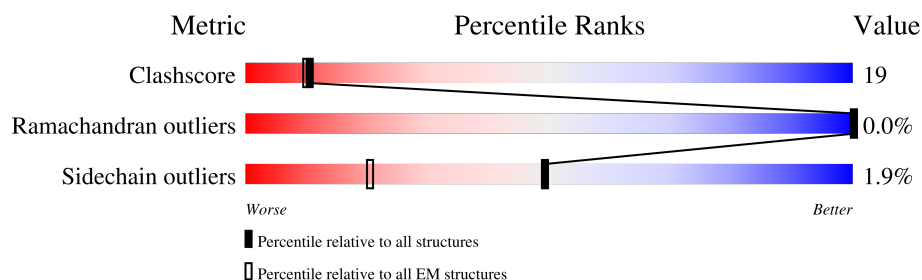
EMDB validation analysis : 0.0.1.dev133
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.50

1 Overall quality at a glance

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

The reported resolution of this entry is 6.28 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	509 (5.80 - 6.78)

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

Mol	Chain	Length	Quality of chain
1	B	104	 81% 12% 8%
2	A0	740	 49% 29% 21%
2	A1	740	 47% 31% • 21%
2	A2	740	 49% 29% • 21%

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Mol	Chain	Length	Quality of chain
2	A3	740	
2	A4	740	
2	A5	740	
2	A6	740	
2	A7	740	
2	A8	740	
2	A9	740	
2	Ar	740	
2	As	740	
2	At	740	
2	Au	740	
2	Av	740	
2	Aw	740	
2	Ax	740	
2	Ay	740	
2	Az	740	
2	BA	740	
2	BB	740	
2	BC	740	
2	BD	740	
2	BE	740	
2	BF	740	
2	BG	740	
2	BH	740	
3	Ck	934	

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Mol	Chain	Length	Quality of chain
4	G	212	
5	O	146	
5	P	146	
6	Q	206	
7	R	176	
8	a	280	

2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 139724 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Capsid Latch gp146.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	B	96	Total	C	N	O	S	0	0
			759	470	137	150	2		

- Molecule 2 is a protein called Major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	A0	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	A1	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	A2	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	A3	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	A4	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	A5	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	A6	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	A7	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	A8	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	A9	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	Ar	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	As	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	At	576	Total	C	N	O	S	0	0
			4593	2902	799	875	17		
2	Au	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	Av	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	Aw	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	Ax	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	Ay	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	Az	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	BA	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	BB	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	BC	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	BD	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	BE	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	BF	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	BG	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
2	BH	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		

- Molecule 3 is a protein called PVC Protein gp65.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	Ck	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		

- Molecule 4 is a protein called Capsid Decorator gp77.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	G	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		

- Molecule 5 is a protein called PVC Protein gp66.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	O	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
5	P	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		

- Molecule 6 is a protein called PVC Protein gp42.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	Q	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		

- Molecule 7 is a protein called PVC Protein gp59.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	R	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		

- Molecule 8 is a protein called PVC Protein gp192.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	a	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		

3 Residue-property plots

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

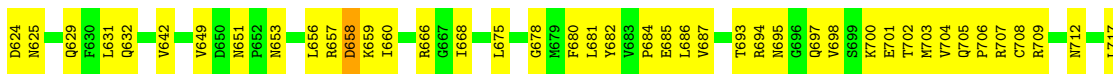
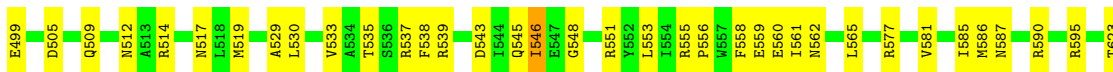
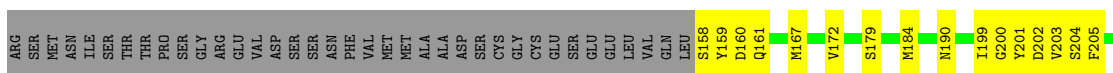
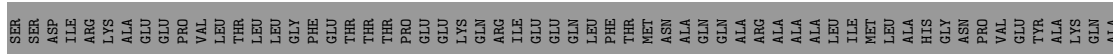
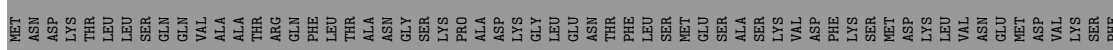
• Molecule 1: Capsid Latch gp146

Chain B: 



• Molecule 2: Major capsid protein

Chain A0: 



Chain A1:

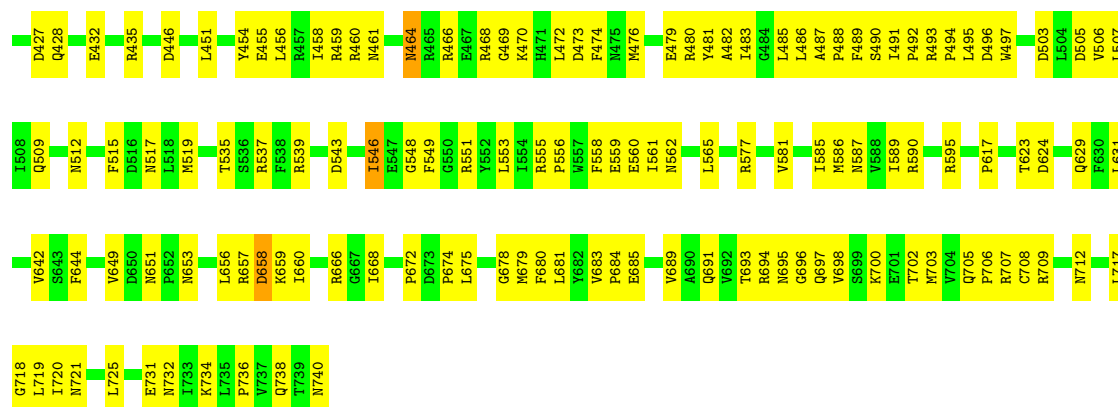


L686	V557	K470	E373	D298	R207	ARG	SER	MET
V687	F558	H471		D299	P208	SER	SER	ASN
		L472	D377	S300	L209	MET	ASP	ASP
T693	I561	D473	V378	I301	V210	ILE	LYS	ARG
N695	M562	F474			F211	ILE	ARG	THR
		K475	A381	N304		SER	LYS	LEU
G696	L565	K476		G305	L214	THR	ALA	LEU
	L566	K477	E384	Y306	R215	THR	GLU	SER
V698	Q570	Q478		S307	R216	PRO	GLU	GLN
S699			I390	D308		SER	PRO	GLN
K700	R577	A482		N309	D219	GLY	VAL	VAL
E701	R578	I483	K393	T310	G220	ARG	ALA	ALA
T702		G484		D311		GLU	THR	ALA
M703	M586	L485	A396	A312	A223	VAL	THR	THR
V704	L486	L486	Q397	L313	D224	ASP	LEU	ARG
Q705	R590	D487	L398	D314	W225	SER	GLY	LEU
P706		A488		A315	V226	SER	PHE	PHE
R707	G601	F489	E401	Q316	R227	ASN	GLU	LEU
G708		S490	V402	I317		PHE	THR	THR
R709	P617			L318	L230	VAL	THR	ALA
		R493	S405	L319		MET	THR	ASN
N712	T623	P494	S406	T320	M235	MET	PRO	GLY
	D624	L495	N407	K321		ALA	GLU	SER
L719		D496	W408	I322	V239	ALA	GLY	LYS
I720	Q629	W497	E409	L323	L240	ASP	LYS	PRO
M721	F630	E498	K410		N241	SER	GLN	ALA
	L631	E499	A411	S328	N242	CYS	ASP	ASP
L725	Q632		Q412		D243	GLY	ILE	LYS
		D505	L413	K333	V244	CYS	GLY	GLY
					T245	GLU	GLU	LEU
Y729	T639				D246	SER	GLN	GLU
T730		Q509	L422	Y336		GLU	LEU	ASN
E731	V642	Y423	Y423	V337	L247	GLU	THR	THR
N732	S643	M512	R424	P338		GLU	THR	PHE
I733	F644			F339	R252	LEU	THR	THR
K734		F515	D427			VAL	MET	LEU
L735	V649	D516	Q428	S342	N257	GLN	ASN	SER
P736	D650	M517	D429			LEU	ALA	MET
	M651	N430		N347	V262	S188	GLN	GLU
		A529		G348		Y159	GLN	SER
L656	L656	L530	R435	F349	I266	D160	ALA	ALA
R657			Q350	Q350	V267	Q161	ARG	SER
D658		V533	F440	K351		K162	ALA	LYS
R659	A594			S352			ALA	VAL
I660		T535	D446	L353	R270	D166	ALA	VAL
					D271	M167	ALA	ASP
R666	R666	F538	E455	D356	E273	M168	ILE	LYS
G667	G667	R539	L456	F357		P169	MET	SER
I668			R457	E358	V277	Y170	MET	ASP
		D543	I458	K359	T278		ALA	MET
P674		T544	R459	M360	Y279	S179	HIS	LYS
L675	L674	Q545	R460	T361	K280	R180	GLY	LEU
		T546	N461	L362	T281		ASN	VAL
G678		G547	Q462	A343		N190	PRO	ASN
K679		G548	S463	F364	L289		VAL	GLU
F680		F549	W464	D365	L290	G200	GLU	GLU
L681		G550	R465	T366	D291		TYR	MET
V682		R551	R466	H367		V203	ALA	VAL
G683			E467		G294	S204	LYS	LYS
P684		R555				P205	GLN	ALA
E685		C468		F370	L295	P206	ALA	PHE

Chain A2:

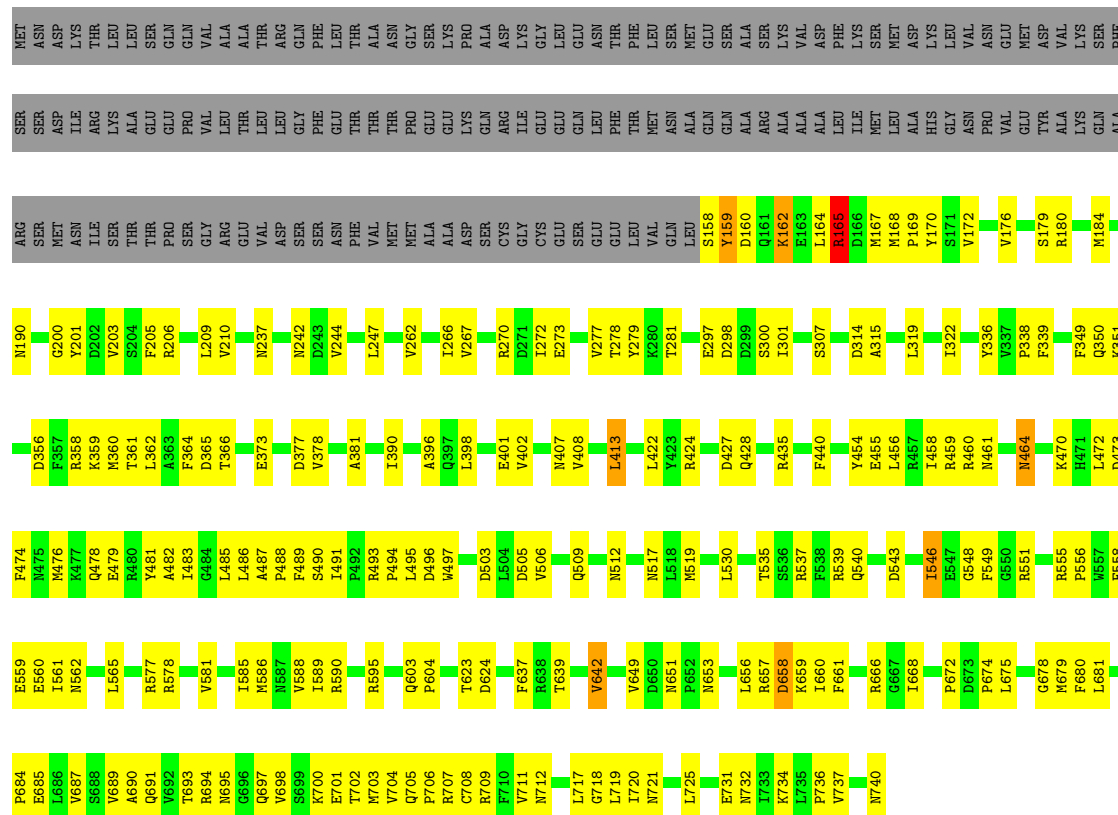


S300	N190	ARG	SER	SER	ASN	MET
S307	I199	MET	ASN	ASP	ASN	ASN
D314	G200	ILE	ILE	ILE	LYS	LYS
A315	Y201	SER	SER	LYS	THR	THR
L319	D202	THR	THR	ALA	LEU	LEU
I322	V203	THR	THR	GLU	SER	SER
L323	S204	PRO	PRO	GLU	GLN	GLN
I326	F205	GLY	GLY	VAL	VAL	VAL
K327	L208	ARG	ARG	LEU	ALA	ALA
S328	V210	GLU	GLU	THR	THR	THR
K333	P211	VAL	VAL	LEU	ARG	ARG
T334	L214	ASP	ASP	LEU	GLN	GLN
P338	R215	SER	SER	PHE	PHE	PHE
F339	R216	ASN	ASN	GLU	LEU	LEU
K351	K217	PHE	PHE	THR	THR	THR
R358	A218	VAL	VAL	THR	ALA	ALA
F364	D219	MET	MET	THR	ASN	ASN
D365	G220	MET	MET	PRO	GLY	GLY
F370	W225	ALA	ALA	GLU	SER	SER
E373	L230	ASP	ASP	LYS	LYS	LYS
D377	N237	SER	SER	GLN	PRO	PRO
V378	D238	CYS	CYS	ARG	ALA	ALA
A381	V239	CYS	CYS	ILE	ASP	ASP
E384	L240	GLU	GLU	GLU	LYS	LYS
A385	S241	SER	SER	GLU	GLY	GLY
I390	N242	GLU	GLU	GLN	LEU	LEU
S394	D243	GLU	GLU	ASN	GLU	GLU
A395	V244	VAL	VAL	THR	THR	THR
A396	L247	GLN	GLN	MET	PHE	PHE
G397	V262	LEU	LEU	ASN	LEU	LEU
L398	D266	LYS	LYS	ALA	SER	SER
E401	V267	ALA	ALA	VAL	MET	MET
V402	R270	ILE	ILE	ALA	VAL	VAL
N407	D271	ILE	ILE	ASP	ASP	ASP
V408	T272	ILE	ILE	LYS	LYS	LYS
L413	E273	MET	MET	LYS	VAL	VAL
L422	V277	LEU	LEU	MET	ASN	ASN
Y423	T278	ASP	ASP	THR	GLU	GLU
Y424	Y279	LYS	LYS	VAL	ASP	ASP
	K280	ALA	ALA	VAL	LYS	LYS
	T281	VAL	VAL	GLU	GLN	GLN
	L289	LYS	LYS	THR	THR	THR
	M292	LYS	LYS	VAL	VAL	VAL
	D298	ALA	ALA	GLN	GLN	GLN
	V298	ALA	ALA	THR	THR	THR



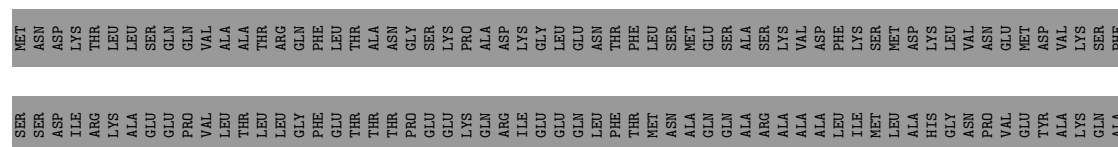
• Molecule 2: Major capsid protein

Chain A3: 51% 26% 21%



• Molecule 2: Major capsid protein

Chain A4: 49% 29% 21%

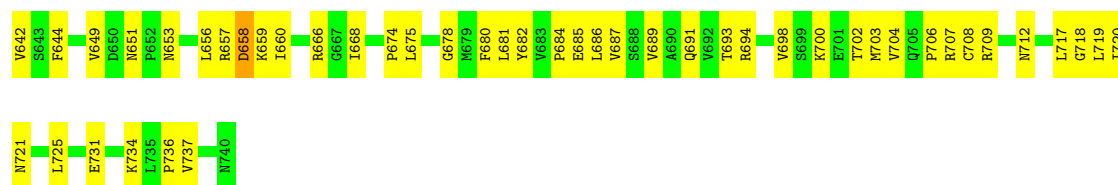


Response	Percentage
Yes, a lot more	53%
Yes, a little more	25%
No more	2%
Don't know	21%



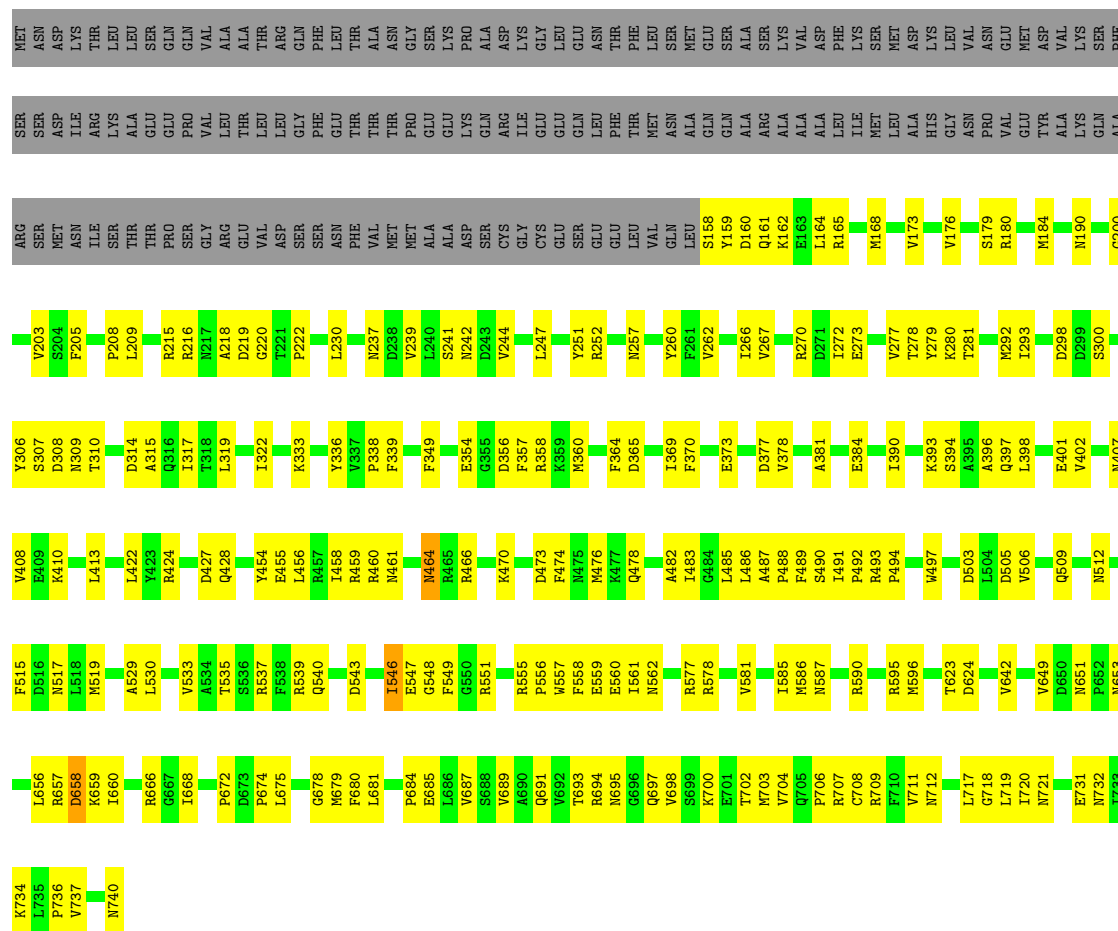
Response	Percentage
Yes, more action is needed	51%
No, the U.S. is doing enough	28%
Don't know	21%





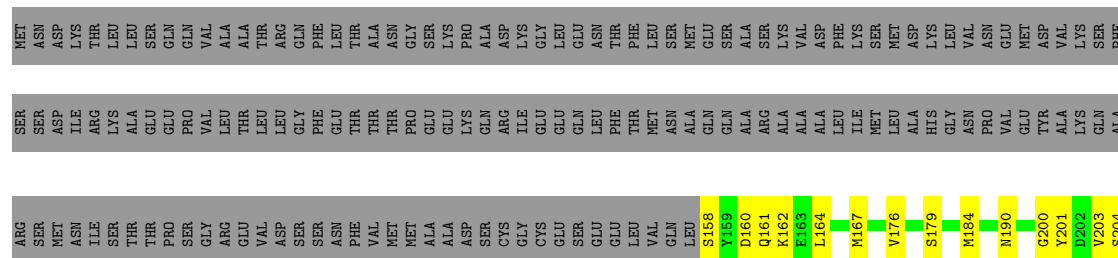
• Molecule 2: Major capsid protein

Chain A8: 50% 28% 21%



• Molecule 2: Major capsid protein

Chain A9: 48% 30% 21%



Chain As:



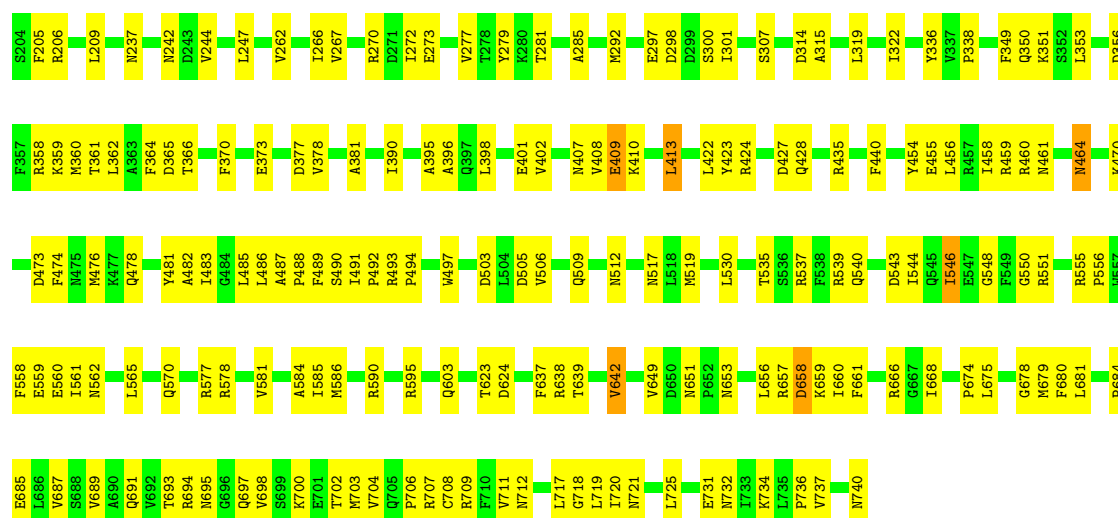
MET	SER	ARG	Y201	D298	M407	N512	V642	L725
ASN	SER	SER	D202	D299	V408	F515	V649	E731
ASP	ASP	MET	V203	S300	E409	DS16	N650	P736
LYS	ILE	ASN	S204	I301	K410	N517	N651	V737
THR	ARG	ILE	F205	L302	L413	N518	N652	N740
LEU	LYS	SER	R206	G305	L422	N519	N653	
LEU	ALA	THR	R207	Y306	R423	L530	L656	
GLN	GLU	GLU	P208	S307	R424	T535	R657	
GLN	PRO	VAL	L209	D308	D427	S536	D658	
VAL	VAL	GLY	V210	N309	Q428	R537	R659	
VAL	VAL	ARG	F211	T310	Y454	F538	I660	
ALA	LEU	GLU	L214	D311	E455	R539	P661	
ALA	THR	VAL	R215	D314	A456	Q540	R666	
THR	LEU	ASP	R216	A315	L457	G543	I668	
ARG	LEU	GLY	N217	A319	R457	D543	P672	
PHE	GLU	SER	A218	T322	R458	E546	D673	
LEU	THR	ASN	D219	Y336	R459	E547	P674	
THR	THR	PHE	G220	V337	N461	G548	L675	
ALA	THR	VAL	T221	P338	N464	F549	G678	
ASN	ALA	MET	W225	F339	K470	R551	M679	
GLY	GLN	GLY	R228	F349	L471	P555	P680	
SER	LYS	ILE	N237	K351	D473	W557	L681	
ALA	GLN	GLU	V244	D356	F474	F558	P684	
PRO	ALA	SER	L247	P357	N475	E559	E685	
ALA	ALA	GLU	L250	R358	M476	E560	L686	
GLU	VAL	THR	V251	K359	R477	I561	V687	
ASN	LEU	LEU	R252	N360	E478	N562	S688	
GLU	LEU	GLN	N257	F364	R480	L565	V689	
THR	GLN	LEU	Y159	D365	A481	R577	R694	
PHE	ALA	GLN	D160	T366	A482	R578	N695	
LEU	ALA	ALA	Q161	V262	L485	V581	Q696	
SER	LYS	ALA	K162	F370	L486	K700	Q697	
VAL	VAL	ALA	E163	E373	A487	M585	E701	
ASP	PHE	ALA	L164	D377	P488	M586	I702	
LYS	LEU	LEU	R165	V378	S490	T589	M703	
SER	ILE	MET	D166	I491	I491	R590	V704	
MET	LEU	LEU	M167	E273	R492	R595	Q705	
ASP	ALA	ALA	V172	A381	P494	M596	P706	
LYS	HIS	GLY	V176	T390	W497	Q603	R707	
LEU	ASN	VAL	Y279	A395	D503	P604	R709	
VAL	PRO	VAL	S179	K280	L504	N712	L717	
ASN	VAL	GLU	R180	Q397	D505	T623	G718	
GLU	TYR	ALA	M184	L398	V506	D624	L719	
ASP	ALA	LYS	N190	E401	Q509	F637	L720	
VAL	LYS	GLN	G200	V402	R638	R638	N721	
SER	ALA	ALA	E297			T639		

- Molecule 2: Major capsid protein

Chain At:

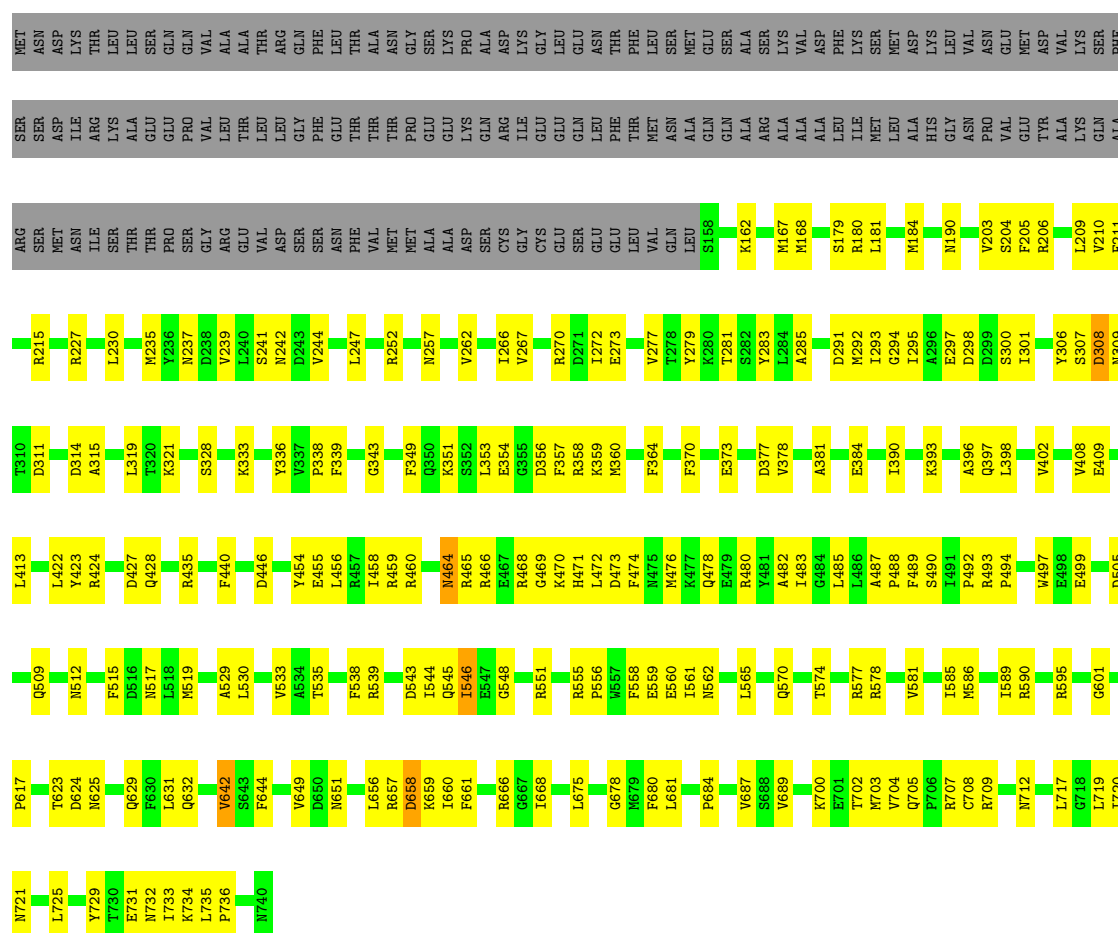


MET	SER	ARG	G220	T320	Q428
ASN	SER	SER	T221	K321	D429
ASP	ASP	MET	P222	I332	N430
LYS	ILE	ASN	R227	H331	R435
THR	ARG	ILE	R228	Y336	K436
LEU	LYS	SER	P229	Y337	F440
LEU	ALA	THR	Y236	F338	K441
SER	GLU	GLN	N237	F339	K450
GLN	PRO	VAL	D238	I345	Y454
VAL	VAL	GLY	V239	T346	E455
LEU	LEU	ARG	L240	Q350	L456
THR	THR	THR	L247	K351	R460
LEU	LEU	GLY	H248	S352	N461
LEU	LEU	SER	P249	E354	N462
GLY	PHE	ASN	D255	G355	S463
THR	THR	THR	V262	D356	N464
ALA	ASN	ALA	D263	F357	R465
ALA	GLY	GLN	K264	F354	R466
SER	GLY	LYS	A265	H367	E467
LYS	PRO	ALA	T266	E373	K470
PRO	ALA	ALA	V267	D377	H471
GLN	ARG	GLY	D271	V378	D473
ASP	ASP	LYS	I272	A381	F474
GLN	GLY	GLU	E273	Y481	E479
ALA	GLU	SER	V277	Q387	R480
ALA	GLN	ASN	T278	I390	Y481
GLU	GLN	LEU	T279	A396	A482
THR	THR	THR	K280	I400	I483
PHE	PHE	LEU	Y283	E401	G484
LEU	LEU	GLN	L289	V402	L485
ASN	ALA	ALA	D291	Y403	R489
GLU	ALA	LYS	I295	N407	P494
MET	VAL	ASP	A296	V408	L495
GLU	ALA	LEU	E297	E409	D496
GLU	ALA	ASP	D298	L413	E498
GLU	VAL	LYS	D299	V415	E499
GLU	ASN	GLY	S300	N419	D503
LEU	PRO	ASN	Y306	L422	L504
LYS	VAL	VAL	S307	Y423	L507
ASP	GLU	GLU	N309	V426	I508
LEU	TYR	ALA	T310	D427	N512
ASP	VAL	VAL	D311		K527
GLU	MET	ASP	D314		L530
VAL	VAL	VAL	A315		T535
LYS	LYS	GLN	H213		
SER	ALA	ALA	D219		



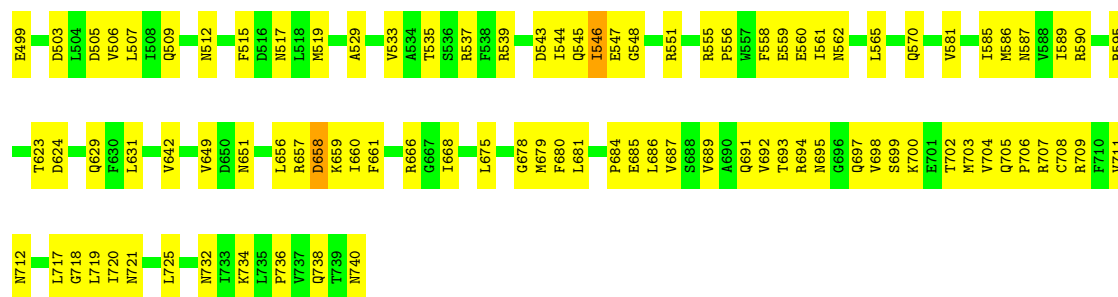
• Molecule 2: Major capsid protein

Chain Aw: 50% 28% 21%

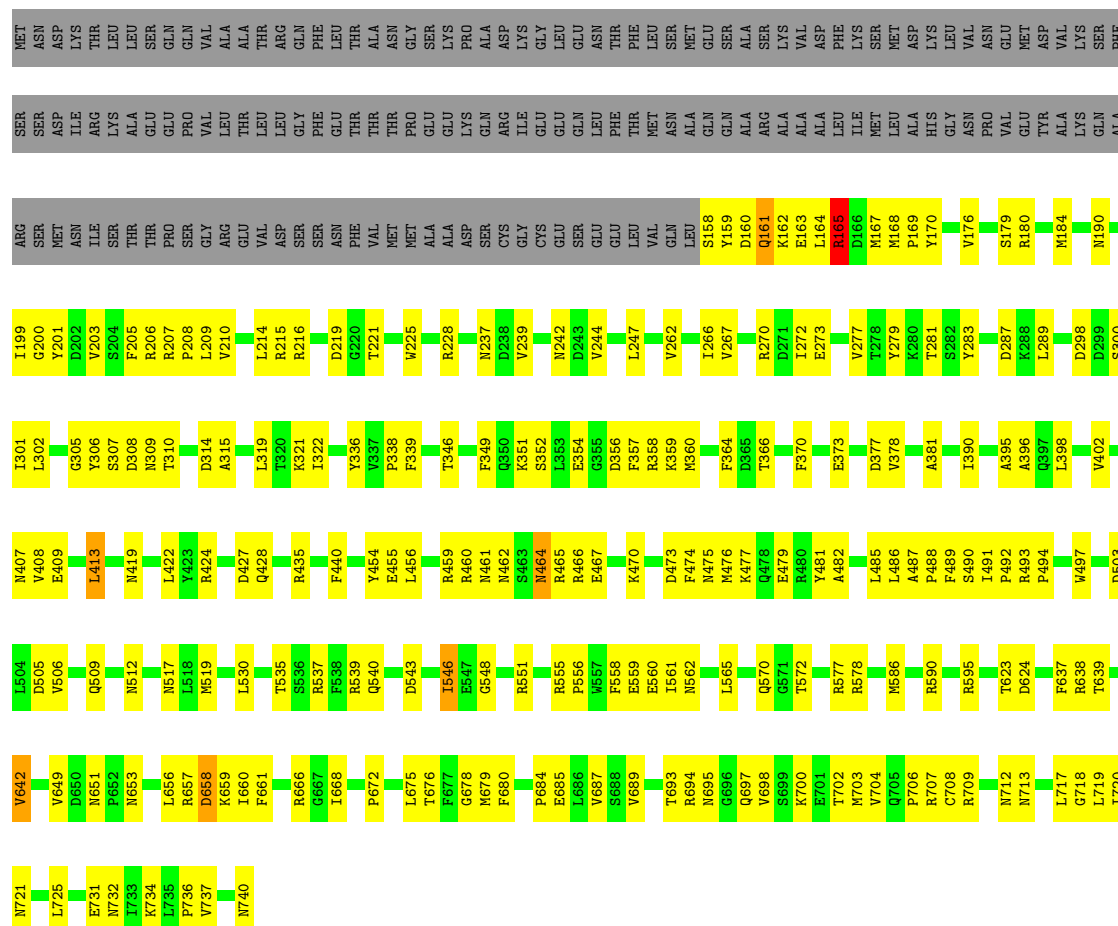


• Molecule 2: Major capsid protein

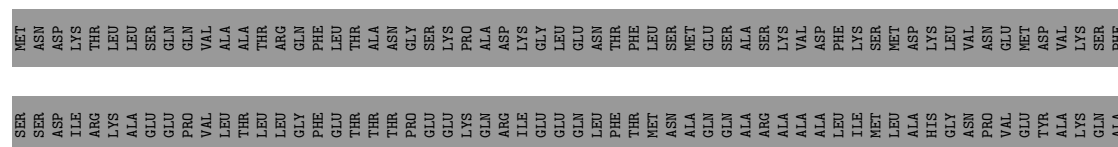
Chain Ax: 51% 27% 21%

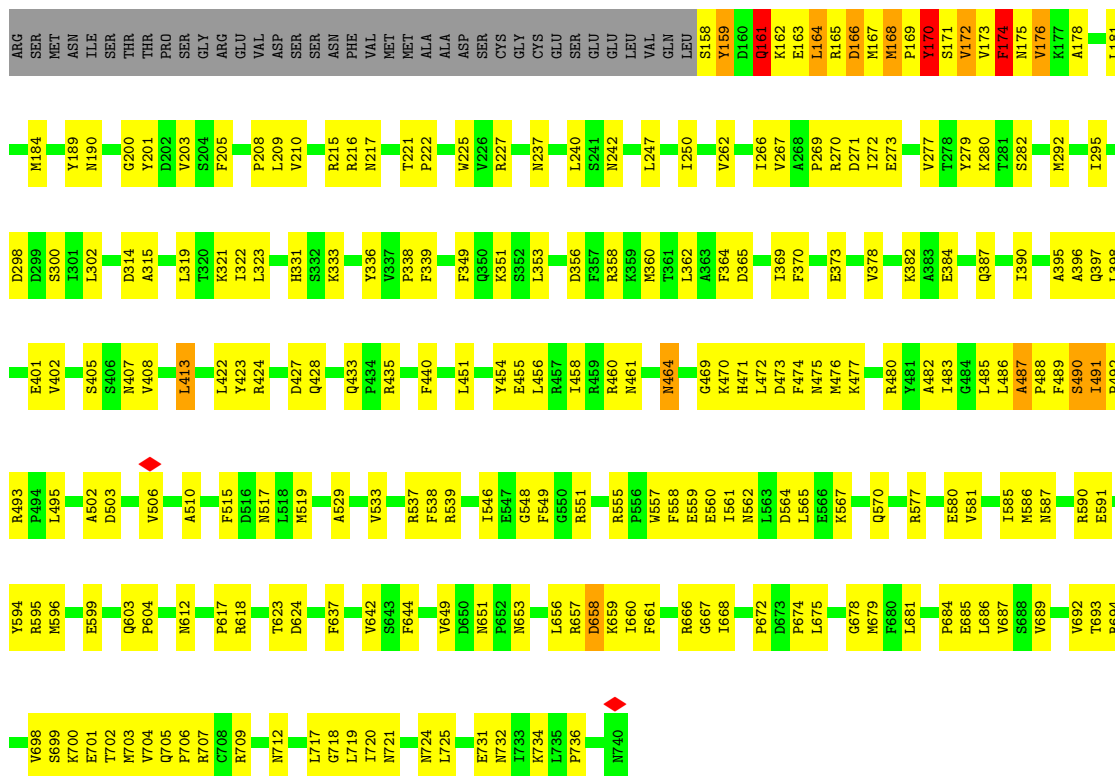


- Molecule 2: Major capsid protein



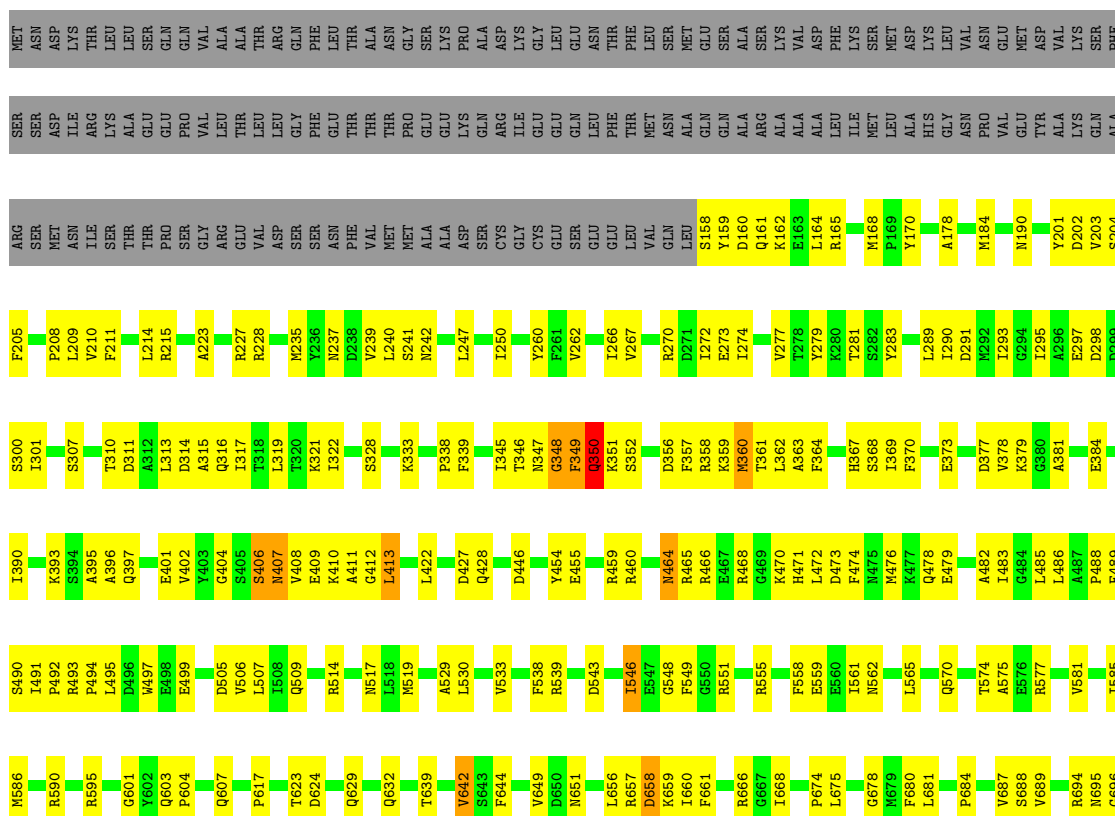
- Molecule 2: Major capsid protein





• Molecule 2: Major capsid protein

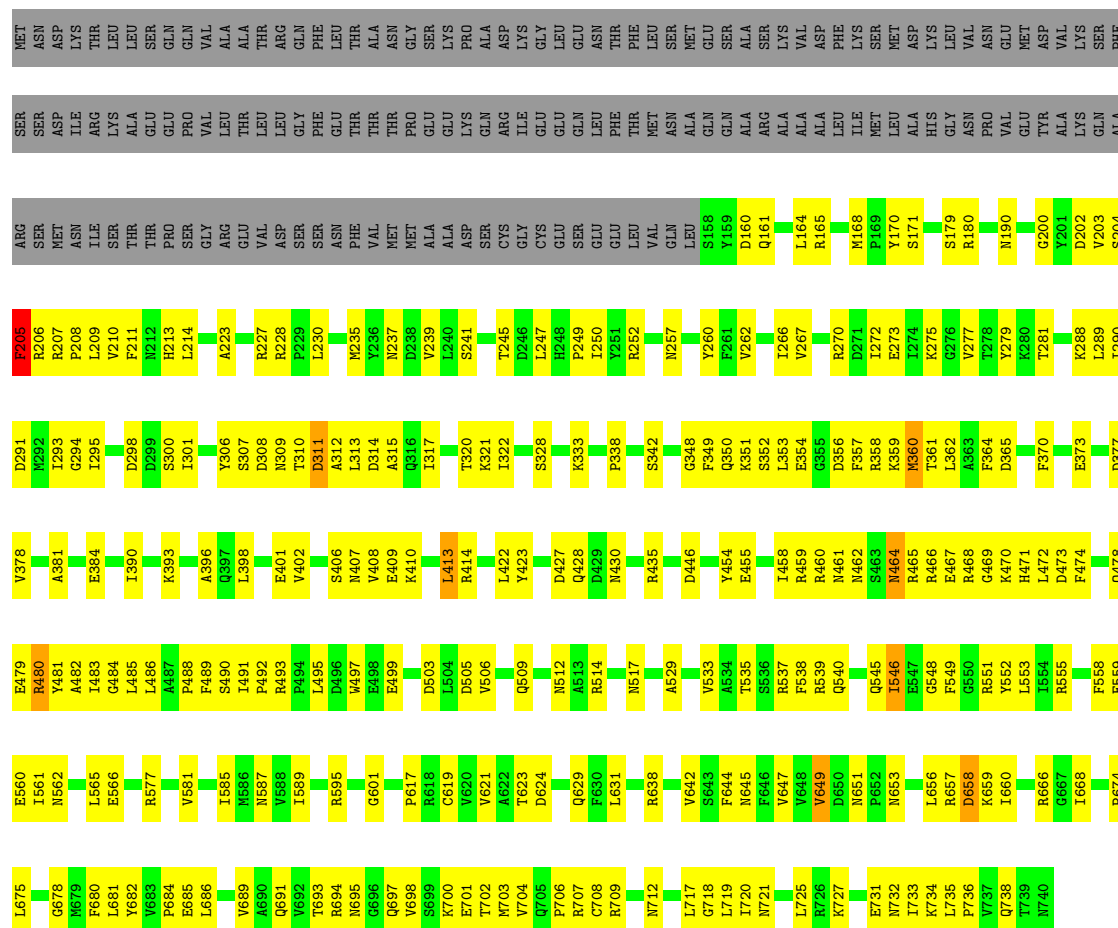
Chain BB:





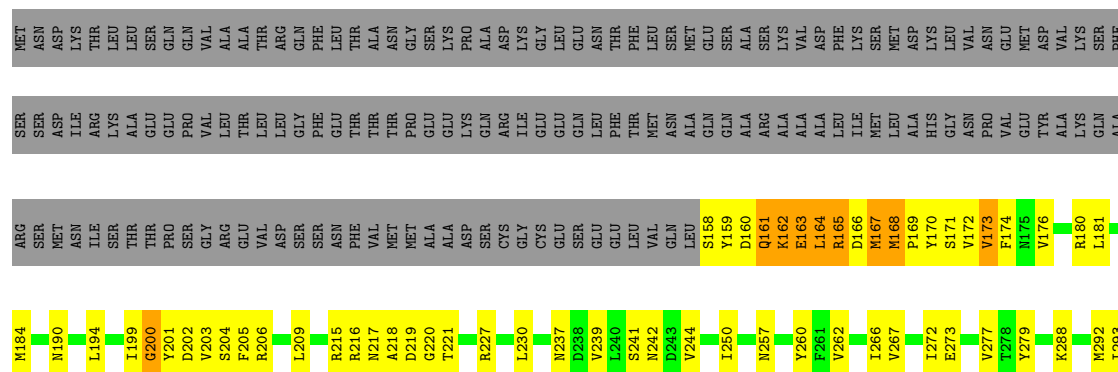
• Molecule 2: Major capsid protein

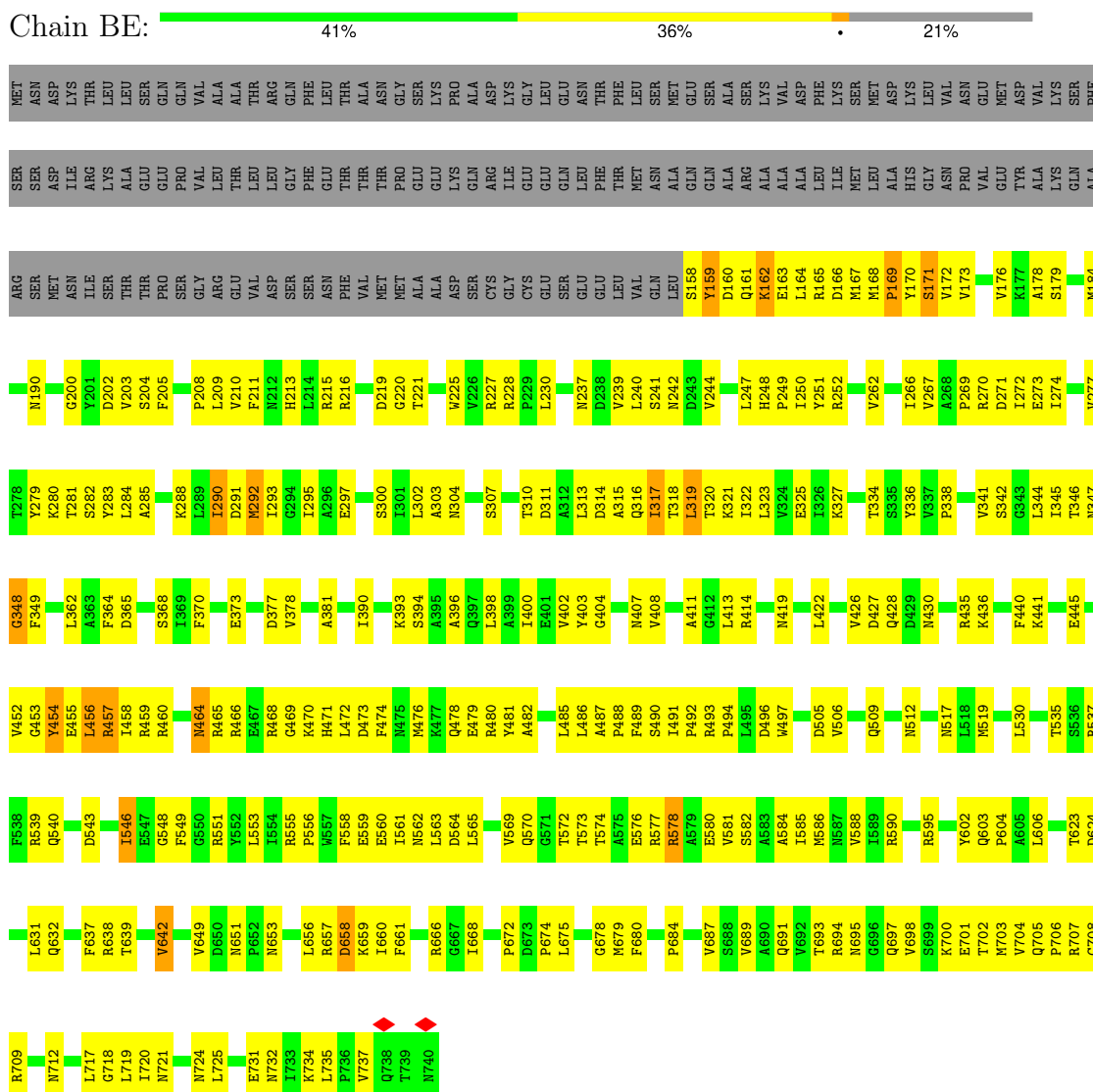
Chain BC: 45% 33% 21%



• Molecule 2: Major capsid protein

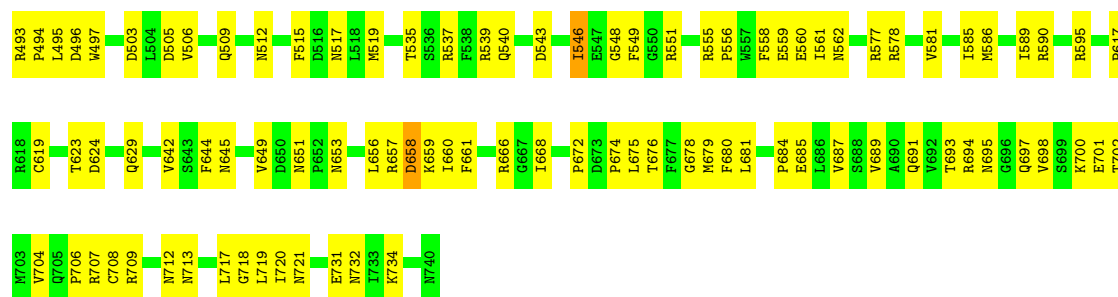
Chain BD: 46% 31% 21%



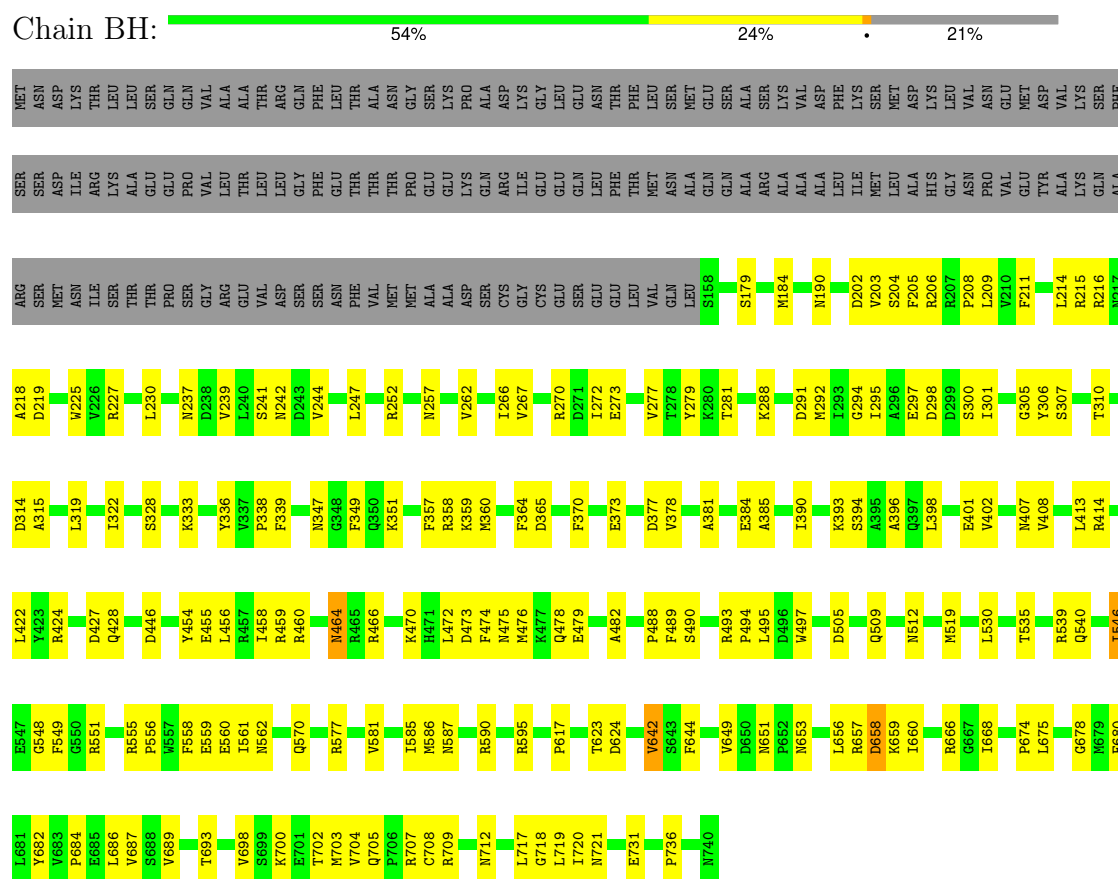


Chain BF:

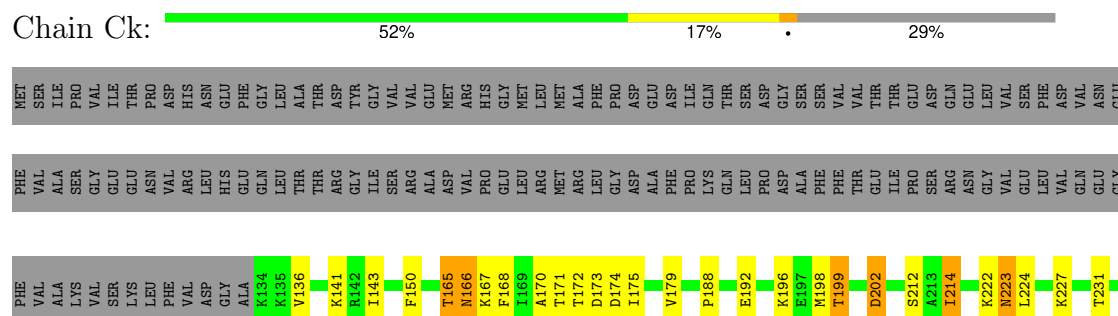


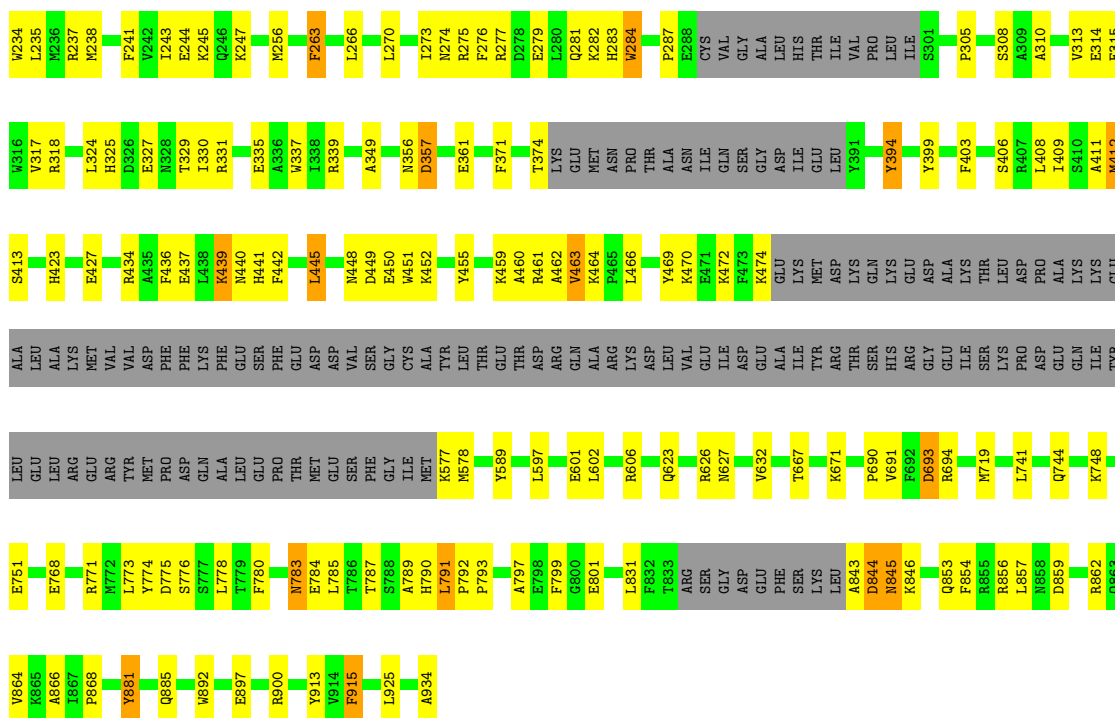


• Molecule 2: Major capsid protein

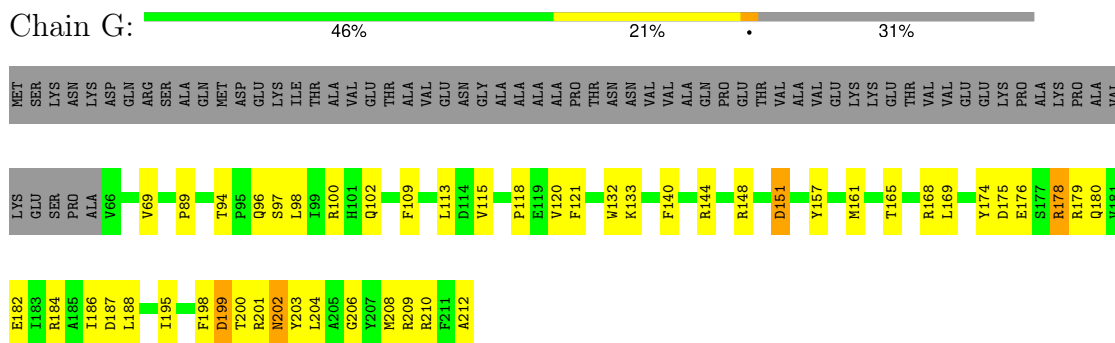


• Molecule 3: PVC Protein gp65

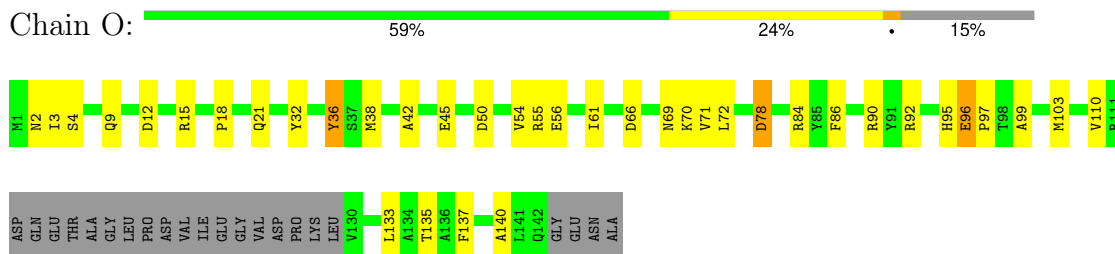




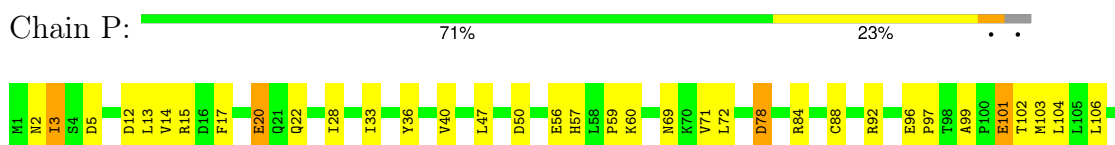
- Molecule 4: Capsid Decorator gp77



- Molecule 5: PVC Protein gp66



- Molecule 5: PVC Protein gp66

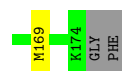
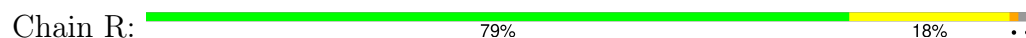




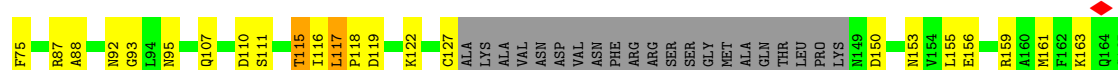
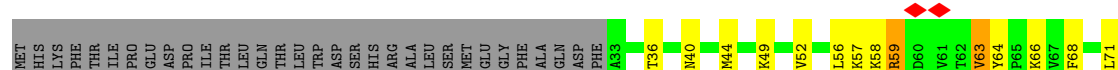
• Molecule 6: PVC Protein gp42



• Molecule 7: PVC Protein gp59



• Molecule 8: PVC Protein gp192



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	5214	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	1.748	Depositor
Minimum map value	-0.531	Depositor
Average map value	-0.002	Depositor
Map value standard deviation	0.111	Depositor
Recommended contour level	0.3	Depositor
Map size (Å)	2380.0, 2380.0, 2380.0	wwPDB
Map dimensions	800, 800, 800	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	2.975, 2.975, 2.975	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	B	0.21	0/766	0.41	0/1027
2	A0	0.21	0/4735	0.45	0/6411
2	A1	0.25	0/4735	0.55	2/6411 (0.0%)
2	A2	0.22	0/4735	0.50	0/6411
2	A3	0.23	0/4735	0.56	4/6411 (0.1%)
2	A4	0.24	0/4735	0.52	2/6411 (0.0%)
2	A5	0.23	0/4735	0.60	5/6411 (0.1%)
2	A6	0.21	0/4735	0.46	0/6411
2	A7	0.19	0/4735	0.43	0/6411
2	A8	0.20	0/4735	0.44	0/6411
2	A9	0.23	0/4735	0.54	1/6411 (0.0%)
2	Ar	0.20	0/4735	0.44	0/6411
2	As	0.22	0/4735	0.46	0/6411
2	At	0.18	0/4676	0.43	0/6330
2	Au	0.20	0/4735	0.42	0/6411
2	Av	0.22	0/4735	0.49	3/6411 (0.0%)
2	Aw	0.22	0/4735	0.47	1/6411 (0.0%)
2	Ax	0.22	0/4735	0.49	4/6411 (0.1%)
2	Ay	0.26	0/4735	0.57	6/6411 (0.1%)
2	Az	0.29	1/4735 (0.0%)	0.59	6/6411 (0.1%)
2	BA	0.34	1/4735 (0.0%)	0.72	13/6411 (0.2%)
2	BB	0.30	0/4735	0.71	17/6411 (0.3%)
2	BC	0.29	0/4735	0.67	10/6411 (0.2%)
2	BD	0.31	0/4735	0.75	21/6411 (0.3%)
2	BE	0.32	0/4735	0.77	18/6411 (0.3%)
2	BF	0.36	0/4735	0.78	14/6411 (0.2%)
2	BG	0.18	0/4735	0.40	0/6411
2	BH	0.18	0/4735	0.40	0/6411
3	Ck	0.15	0/5481	0.31	0/7397
4	G	0.14	0/1224	0.33	0/1656
5	O	0.18	0/988	0.35	0/1339
5	P	0.16	0/1098	0.35	0/1492
6	Q	0.19	0/1669	0.41	0/2277
7	R	0.18	0/1433	0.36	0/1947

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
8	a	0.19	0/1811	0.49	0/2454
All	All	0.24	2/142256 (0.0%)	0.54	127/192605 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	A3	0	1
2	BA	0	3
2	BB	0	2
2	BC	0	1
8	a	0	3
All	All	0	10

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Az	161	GLN	CA-C	6.24	1.62	1.52
2	BA	161	GLN	CB-CG	-5.54	1.35	1.52

All (127) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A5	165	ARG	CA-CB-CG	16.43	146.96	114.10
2	A5	165	ARG	CB-CG-CD	15.40	146.72	111.30
2	BD	163	GLU	CA-CB-CG	13.59	141.28	114.10
2	Az	165	ARG	CB-CG-CD	13.46	142.26	111.30
2	A3	165	ARG	CB-CG-CD	13.39	142.10	111.30
2	BB	350	GLN	CA-CB-CG	13.38	140.86	114.10
2	BB	350	GLN	CB-CA-C	-11.53	86.16	109.79
2	A3	165	ARG	CA-CB-CG	11.24	136.57	114.10
2	BC	205	PHE	CB-CA-C	10.24	130.17	109.38
2	BA	174	PHE	N-CA-CB	-10.13	93.20	110.83
2	BD	162	LYS	CA-C-N	10.03	135.89	120.75
2	BD	162	LYS	C-N-CA	10.03	135.89	120.75
2	Az	165	ARG	CA-CB-CG	9.46	133.03	114.10
2	BF	696	GLY	N-CA-C	9.42	135.51	113.18
2	A5	165	ARG	N-CA-CB	-9.39	93.41	111.53
2	BC	205	PHE	N-CA-CB	-9.01	95.00	111.13
2	BB	350	GLN	N-CA-C	8.66	122.94	109.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	BB	348	GLY	CA-C-N	8.30	132.66	120.87
2	BB	348	GLY	C-N-CA	8.30	132.66	120.87
2	A3	165	ARG	N-CA-CB	-7.99	96.11	111.53
2	Ay	304	ASN	N-CA-C	7.96	125.18	114.12
2	BB	349	PHE	N-CA-CB	-7.63	98.76	109.97
2	Az	165	ARG	N-CA-CB	-7.55	96.95	111.53
2	BE	162	LYS	CB-CA-C	-7.55	95.64	109.54
2	BD	167	MET	N-CA-C	-7.23	98.86	108.34
2	Ay	305	GLY	CA-C-N	-7.22	109.06	121.85
2	Ay	305	GLY	C-N-CA	-7.22	109.06	121.85
2	BC	203	VAL	CA-C-N	-7.21	111.64	122.74
2	BC	203	VAL	C-N-CA	-7.21	111.64	122.74
2	BD	167	MET	CB-CG-SD	-7.10	91.41	112.70
2	BC	360	MET	CB-CG-SD	7.00	133.70	112.70
2	BD	165	ARG	CA-C-N	-6.95	112.97	122.77
2	BD	165	ARG	C-N-CA	-6.95	112.97	122.77
2	BB	349	PHE	CA-C-N	6.92	133.45	122.59
2	BB	349	PHE	C-N-CA	6.92	133.45	122.59
2	BD	167	MET	CA-C-N	-6.91	109.03	122.70
2	BD	167	MET	C-N-CA	-6.91	109.03	122.70
2	BC	480	ARG	CB-CA-C	6.84	123.23	109.68
2	BA	166	ASP	N-CA-C	6.83	119.61	108.26
2	BE	162	LYS	CA-CB-CG	6.80	127.71	114.10
2	BD	163	GLU	N-CA-CB	-6.80	100.05	110.04
2	BE	456	LEU	CA-CB-CG	6.71	139.78	116.30
2	A1	360	MET	CB-CG-SD	6.69	132.76	112.70
2	Ax	313	LEU	CA-CB-CG	6.67	139.64	116.30
2	BB	349	PHE	N-CA-C	6.65	120.12	110.28
2	BE	292	MET	CB-CG-SD	6.59	132.47	112.70
2	BE	171	SER	N-CA-C	6.56	119.86	109.50
2	BD	200	GLY	CA-C-N	6.52	132.83	122.59
2	BD	200	GLY	C-N-CA	6.52	132.83	122.59
2	BA	174	PHE	CA-CB-CG	6.50	120.31	113.80
2	BD	164	LEU	N-CA-C	6.44	122.74	114.56
2	A9	313	LEU	CA-CB-CG	6.19	137.97	116.30
2	BA	176	VAL	N-CA-C	6.18	116.77	108.11
2	A3	165	ARG	CB-CA-C	6.16	124.24	111.97
2	BB	406	SER	CA-C-N	6.16	132.27	122.59
2	BB	406	SER	C-N-CA	6.16	132.27	122.59
2	BF	495	LEU	N-CA-C	6.12	120.01	112.54
2	BF	242	ASN	N-CA-C	6.11	119.22	107.44
2	BB	349	PHE	CB-CA-C	6.08	120.05	109.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	BD	200	GLY	N-CA-C	6.06	127.53	113.18
2	BB	360	MET	CB-CG-SD	6.02	130.75	112.70
2	BE	457	ARG	N-CA-C	6.02	120.28	107.70
2	BA	491	ILE	N-CA-C	6.01	121.86	108.88
2	BD	165	ARG	CB-CA-C	-5.96	100.11	111.97
2	BC	480	ARG	CA-CB-CG	5.95	125.99	114.10
2	A4	360	MET	CB-CG-SD	5.94	130.51	112.70
2	BB	350	GLN	N-CA-CB	5.93	121.87	111.55
2	BA	170	TYR	N-CA-C	5.92	118.03	108.32
2	BE	578	ARG	CB-CG-CD	-5.88	97.78	111.30
2	BB	350	GLN	CA-C-N	5.83	129.00	120.71
2	BB	350	GLN	C-N-CA	5.83	129.00	120.71
2	BD	173	VAL	CB-CA-C	-5.83	102.14	110.83
2	BA	490	SER	CA-C-N	5.77	132.81	122.13
2	BA	490	SER	C-N-CA	5.77	132.81	122.13
2	BE	348	GLY	N-CA-C	5.77	119.73	110.90
2	Ax	360	MET	CB-CG-SD	5.73	129.90	112.70
2	BE	460	ARG	N-CA-C	5.69	118.91	109.46
2	BE	290	ILE	CA-C-N	-5.68	114.87	122.42
2	BE	290	ILE	C-N-CA	-5.68	114.87	122.42
2	BF	480	ARG	CA-C-N	5.68	131.41	122.21
2	BF	480	ARG	C-N-CA	5.68	131.41	122.21
2	Av	162	LYS	N-CA-C	5.67	118.87	110.48
2	Ax	312	ALA	N-CA-C	5.66	122.86	110.80
2	Aw	308	ASP	CB-CA-C	5.65	126.59	113.19
2	BE	457	ARG	CA-C-N	5.65	130.80	122.94
2	BE	457	ARG	C-N-CA	5.65	130.80	122.94
2	Ay	306	TYR	CA-CB-CG	5.61	124.00	113.90
2	BF	480	ARG	N-CA-C	5.57	116.42	108.74
2	BD	168	MET	N-CA-C	-5.55	100.52	109.40
2	BF	693	THR	N-CA-C	5.53	117.87	108.02
2	BA	168	MET	CB-CA-C	5.52	116.87	109.42
2	BA	172	VAL	CG1-CB-CG2	5.52	122.94	110.80
2	BB	409	GLU	N-CA-C	5.47	117.33	111.36
2	Ax	313	LEU	N-CA-CB	5.45	120.03	111.20
2	BF	693	THR	N-CA-CB	-5.45	102.56	110.84
2	BE	319	LEU	N-CA-C	5.43	118.66	109.76
2	Az	165	ARG	CG-CD-NE	5.39	123.87	112.00
2	A4	360	MET	CA-CB-CG	-5.39	103.31	114.10
2	BE	169	PRO	CB-CA-C	5.38	118.06	110.20
2	Av	160	ASP	CA-C-N	-5.37	112.98	123.13
2	Av	160	ASP	C-N-CA	-5.37	112.98	123.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Ay	307	SER	CA-C-N	5.36	130.16	122.23
2	Ay	307	SER	C-N-CA	5.36	130.16	122.23
2	BC	311	ASP	CA-C-N	-5.33	113.30	123.32
2	BC	311	ASP	C-N-CA	-5.33	113.30	123.32
2	BD	162	LYS	N-CA-C	5.29	117.51	110.53
2	BD	165	ARG	CB-CG-CD	-5.27	99.17	111.30
2	Az	161	GLN	CB-CG-CD	-5.26	103.65	112.60
2	BF	469	GLY	N-CA-C	5.22	121.74	112.55
2	BA	168	MET	CA-CB-CG	-5.22	103.66	114.10
2	BF	308	ASP	N-CA-C	-5.22	101.51	108.34
2	BF	481	TYR	N-CA-CB	5.22	120.77	111.69
2	BC	480	ARG	N-CA-CB	-5.21	101.69	111.13
2	Az	165	ARG	CB-CA-C	5.18	122.28	111.97
2	BE	321	LYS	N-CA-C	5.13	116.99	109.24
2	BD	161	GLN	N-CA-C	5.13	116.59	110.44
2	BF	695	ASN	CA-C-N	5.12	131.44	121.41
2	BF	695	ASN	C-N-CA	5.12	131.44	121.41
2	BE	291	ASP	N-CA-C	-5.08	100.23	108.41
2	BF	496	ASP	N-CA-C	5.07	119.16	112.92
2	A1	360	MET	CA-CB-CG	-5.06	103.99	114.10
2	BA	170	TYR	CA-CB-CG	5.04	122.97	113.90
2	A5	160	ASP	CA-C-N	-5.02	113.37	122.50
2	A5	160	ASP	C-N-CA	-5.02	113.37	122.50
2	BA	487	ALA	N-CA-C	5.01	116.99	110.08
2	BD	168	MET	CB-CA-C	5.00	116.17	109.42
2	BE	317	ILE	CG1-CB-CG2	-5.00	95.69	110.70

There are no chirality outliers.

All (10) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	A3	162	LYS	Peptide
2	BA	161	GLN	Mainchain
2	BA	170	TYR	Peptide
2	BA	174	PHE	Sidechain
2	BB	350	GLN	Peptide
2	BB	407	ASN	Mainchain
2	BC	205	PHE	Sidechain
8	a	183	ARG	Sidechain
8	a	237	ARG	Sidechain
8	a	59	ARG	Sidechain

5.2 Too-close contacts ⓘ

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	B	759	0	770	13	0
2	A0	4651	0	4633	223	0
2	A1	4651	0	4633	269	0
2	A2	4651	0	4633	224	0
2	A3	4651	0	4633	221	0
2	A4	4651	0	4633	219	0
2	A5	4651	0	4633	246	0
2	A6	4651	0	4633	179	0
2	A7	4651	0	4633	176	0
2	A8	4651	0	4633	207	0
2	A9	4651	0	4633	239	0
2	Ar	4651	0	4633	208	0
2	As	4651	0	4633	232	0
2	At	4593	0	4562	150	0
2	Au	4651	0	4633	172	0
2	Av	4651	0	4633	180	0
2	Aw	4651	0	4633	200	0
2	Ax	4651	0	4633	192	0
2	Ay	4651	0	4633	266	0
2	Az	4651	0	4633	252	0
2	BA	4651	0	4633	364	0
2	BB	4651	0	4633	302	0
2	BC	4651	0	4633	319	0
2	BD	4651	0	4633	363	0
2	BE	4651	0	4633	406	0
2	BF	4651	0	4633	392	0
2	BG	4651	0	4633	145	0
2	BH	4651	0	4633	141	0
3	Ck	5383	0	5418	119	0
4	G	1198	0	1190	30	0
5	O	971	0	989	33	0
5	P	1079	0	1073	37	0
6	Q	1629	0	1559	38	0
7	R	1400	0	1347	18	0
8	a	1786	0	1795	64	0
All	All	139724	0	139161	5228	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 19.

All (5228) 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)
2:A1:350:GLN:O	2:A3:165:ARG:NE	1.79	1.12
2:BC:480:ARG:HG2	2:BD:167:MET:HB2	1.28	1.12
2:A4:350:GLN:O	2:Az:165:ARG:NE	1.86	1.08
2:BA:163:GLU:HB2	2:BE:317:ILE:HG22	1.37	1.04
2:A2:202:ASP:HB3	2:A3:169:PRO:HA	1.39	1.04
2:BB:351:LYS:HA	2:BB:360:MET:HG2	1.39	1.04
2:BA:165:ARG:HH11	2:BE:402:VAL:HG12	1.24	1.02
2:BC:307:SER:HB3	2:BE:158:SER:HB3	1.42	1.01
2:BA:537:ARG:HH12	2:BF:430:ASN:HA	1.24	1.00
2:BA:692:VAL:HG22	2:BF:468:ARG:HE	1.26	1.00
2:BF:497:TRP:NE1	2:BF:499:GLU:O	1.95	0.99
2:BA:736:PRO:HB2	2:BB:734:LYS:HG2	1.45	0.96
2:A0:202:ASP:HB3	2:A5:169:PRO:HA	1.44	0.96
2:Ar:485:LEU:HG	2:Ar:707:ARG:HG2	1.47	0.95
2:A5:158:SER:N	2:A9:308:ASP:O	1.97	0.95
2:BA:373:GLU:HA	2:BA:390:ILE:HG12	1.51	0.93
2:A1:308:ASP:O	2:A3:158:SER:N	2.02	0.93
2:Ay:482:ALA:HB2	2:Az:167:MET:HE2	1.51	0.93
2:BA:734:LYS:HZ1	2:BF:738:GLN:HG2	1.34	0.92
2:A4:364:PHE:HB3	2:A4:402:VAL:HB	1.50	0.91
2:A5:219:ASP:O	2:BC:257:ASN:ND2	2.04	0.91
2:A3:577:ARG:NH1	2:A3:731:GLU:O	2.03	0.91
2:BA:174:PHE:CZ	2:BF:231:LEU:HB3	2.06	0.90
2:Av:577:ARG:NH1	2:Av:731:GLU:O	2.05	0.90
2:BC:308:ASP:O	2:BE:158:SER:N	2.04	0.90
2:BE:316:GLN:OE1	2:BF:484:GLY:HA2	1.71	0.90
2:BC:462:ASN:ND2	2:BC:467:GLU:O	2.05	0.90
2:BE:373:GLU:HA	2:BE:390:ILE:HG12	1.55	0.89
2:A1:313:LEU:HB2	2:A3:162:LYS:HE2	1.54	0.89
2:BC:409:GLU:HA	2:BE:161:GLN:HG2	1.51	0.89
2:A3:461:ASN:ND2	2:Ay:160:ASP:OD2	2.06	0.88
2:Ax:312:ALA:HB3	2:Ax:461:ASN:HB3	1.54	0.88
2:A3:373:GLU:HA	2:A3:390:ILE:HG12	1.54	0.88
2:BA:694:ARG:HH11	2:BF:304:ASN:HD21	1.22	0.88
2:A7:461:ASN:ND2	2:A9:160:ASP:OD2	2.07	0.88
2:Ay:423:TYR:O	2:Ay:435:ARG:NH2	2.05	0.88
2:BA:351:LYS:HB3	2:BC:165:ARG:HD3	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BF:310:THR:O	2:BF:464:ASN:ND2	2.07	0.88
2:BD:205:PHE:H	2:BD:476:MET:HG3	1.38	0.88
3:Ck:356:ASN:ND2	5:P:123:GLU:O	2.06	0.88
2:BA:174:PHE:H	2:BF:207:ARG:HD3	1.39	0.87
2:A0:546:ILE:O	2:A0:551:ARG:NH1	2.07	0.87
2:BA:163:GLU:H	2:BE:458:ILE:HG13	1.37	0.87
2:Ay:305:GLY:H	2:BF:696:GLY:N	1.71	0.87
2:Ay:304:ASN:H	2:BF:696:GLY:HA2	1.40	0.87
2:A0:468:ARG:HH12	2:A5:697:GLN:HE22	1.17	0.87
2:A5:373:GLU:HA	2:A5:390:ILE:HG12	1.55	0.87
2:A6:577:ARG:NH1	2:A6:731:GLU:O	2.08	0.87
2:Av:373:GLU:HA	2:Av:390:ILE:HG12	1.56	0.87
2:BB:350:GLN:HG2	2:BD:165:ARG:C	2.00	0.87
2:BA:692:VAL:HG22	2:BF:468:ARG:NE	1.89	0.87
2:BD:373:GLU:HA	2:BD:390:ILE:HG12	1.54	0.87
2:Az:577:ARG:NH1	2:Az:731:GLU:O	2.08	0.86
2:A4:308:ASP:O	2:Az:158:SER:N	2.08	0.86
2:As:160:ASP:H	2:Aw:409:GLU:HA	1.39	0.86
5:P:50:ASP:HB3	5:P:84:ARG:HH21	1.39	0.86
2:A5:165:ARG:NE	2:A9:350:GLN:H	1.73	0.86
2:Ay:587:ASN:OD1	2:Az:578:ARG:NH2	2.09	0.86
2:BB:407:ASN:HB3	2:BD:161:GLN:NE2	1.91	0.86
2:A1:245:THR:O	2:A1:460:ARG:N	2.08	0.86
2:Az:373:GLU:HA	2:Az:390:ILE:HG12	1.57	0.86
2:BB:158:SER:N	2:BF:308:ASP:O	2.09	0.86
2:BD:491:ILE:HD12	2:BD:503:ASP:HB3	1.54	0.85
2:Ax:577:ARG:NH1	2:Ax:731:GLU:O	2.09	0.85
2:A1:543:ASP:OD2	2:Az:424:ARG:NH1	2.08	0.85
2:BA:163:GLU:N	2:BE:458:ILE:HG13	1.92	0.85
2:A0:577:ARG:NH1	2:A0:731:GLU:O	2.10	0.85
2:BC:361:THR:H	2:BE:165:ARG:HD3	1.40	0.85
2:BC:364:PHE:HB3	2:BC:402:VAL:HB	1.58	0.85
2:A7:257:ASN:ND2	2:BG:219:ASP:O	2.09	0.85
2:BD:423:TYR:O	2:BD:435:ARG:NH2	2.10	0.85
2:BE:284:LEU:HB2	2:BE:454:TYR:HE1	1.40	0.85
2:A1:301:ILE:HD11	2:A1:460:ARG:HH22	1.42	0.85
2:A1:577:ARG:NH1	2:A1:731:GLU:O	2.10	0.84
2:A3:364:PHE:HB3	2:A3:402:VAL:HB	1.59	0.84
2:A8:577:ARG:NH1	2:A8:731:GLU:O	2.10	0.84
2:BA:167:MET:HE1	2:BE:341:VAL:HG23	1.58	0.84
2:BC:208:PRO:HA	2:BC:474:PHE:HA	1.56	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:482:ALA:HB2	2:A3:167:MET:HE2	1.59	0.84
2:A9:364:PHE:HB3	2:A9:402:VAL:HB	1.59	0.84
2:BA:732:ASN:ND2	2:BF:736:PRO:O	2.10	0.84
2:A4:317:ILE:HD11	2:Az:162:LYS:HZ3	1.41	0.84
2:Au:629:GLN:HE22	2:Ax:642:VAL:H	1.22	0.84
2:A6:301:ILE:HD11	2:A6:460:ARG:HH22	1.41	0.84
2:Aw:577:ARG:NH1	2:Aw:731:GLU:O	2.10	0.84
2:BD:204:SER:O	2:BE:171:SER:OG	1.95	0.84
2:BG:577:ARG:NH1	2:BG:731:GLU:O	2.11	0.84
2:A1:310:THR:OG1	2:As:697:GLN:OE1	1.95	0.84
2:As:461:ASN:ND2	2:Au:160:ASP:OD2	2.10	0.84
2:BD:203:VAL:HA	2:BE:171:SER:HB2	1.58	0.84
2:A0:257:ASN:ND2	2:BD:219:ASP:O	2.10	0.84
2:A4:546:ILE:O	2:A4:551:ARG:NH1	2.11	0.84
2:Ay:546:ILE:O	2:Ay:551:ARG:NH1	2.11	0.84
2:As:546:ILE:O	2:As:551:ARG:NH1	2.11	0.84
2:A9:697:GLN:OE1	2:BH:310:THR:OG1	1.96	0.83
2:BF:482:ALA:O	2:BF:709:ARG:HD2	1.78	0.83
2:BH:577:ARG:NH1	2:BH:731:GLU:O	2.10	0.83
2:BB:459:ARG:NH1	2:BC:485:LEU:O	2.10	0.83
2:BC:313:LEU:HA	2:BC:461:ASN:H	1.41	0.83
2:Av:424:ARG:NH1	2:Aw:543:ASP:OD2	2.11	0.83
2:A9:577:ARG:NH1	2:A9:731:GLU:O	2.11	0.83
2:BA:166:ASP:HA	2:BE:347:ASN:O	1.78	0.83
2:Ay:202:ASP:HB3	2:Az:169:PRO:HA	1.61	0.83
2:BA:163:GLU:O	2:BE:456:LEU:HA	1.79	0.83
2:A9:373:GLU:HA	2:A9:390:ILE:HG12	1.61	0.83
2:A3:642:VAL:H	2:A4:629:GLN:HE22	1.27	0.83
2:BE:471:HIS:ND1	2:BF:490:SER:O	2.11	0.83
2:Av:546:ILE:O	2:Av:551:ARG:NH1	2.12	0.82
2:A6:546:ILE:O	2:A6:551:ARG:NH1	2.12	0.82
2:BB:349:PHE:CD2	2:BD:164:LEU:HA	2.15	0.82
2:A1:161:GLN:HG3	2:BF:497:TRP:HZ3	1.42	0.82
2:A2:483:ILE:HD11	2:A2:681:LEU:HB3	1.61	0.82
2:Ar:160:ASP:OD2	2:Av:461:ASN:ND2	2.12	0.82
2:BC:205:PHE:CG	2:BD:173:VAL:HG23	2.13	0.82
2:BE:577:ARG:NH1	2:BE:731:GLU:O	2.13	0.82
2:As:309:ASN:HB3	2:BH:214:LEU:HB3	1.61	0.82
2:A5:736:PRO:HB2	2:A6:734:LYS:HG2	1.60	0.82
2:BA:169:PRO:O	2:BF:480:ARG:N	2.12	0.82
2:BC:482:ALA:O	2:BC:709:ARG:NH1	2.11	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BF:488:PRO:HB3	2:BF:705:GLN:HB2	1.60	0.82
2:A8:257:ASN:ND2	2:As:219:ASP:O	2.13	0.82
2:Au:482:ALA:O	2:Au:709:ARG:NH1	2.11	0.82
2:BA:167:MET:SD	2:BE:347:ASN:ND2	2.52	0.82
2:BB:160:ASP:HB2	2:BF:312:ALA:HB2	1.59	0.82
2:BB:736:PRO:HB2	2:BC:734:LYS:HG2	1.59	0.82
2:BC:350:GLN:O	2:BE:165:ARG:HD2	1.80	0.82
2:A4:577:ARG:NH1	2:A4:731:GLU:O	2.13	0.82
2:BC:480:ARG:HG2	2:BD:167:MET:CB	2.09	0.82
2:BD:202:ASP:HA	2:BE:169:PRO:HG2	1.60	0.82
2:BE:209:LEU:N	2:BE:473:ASP:O	2.13	0.82
2:BE:284:LEU:HB2	2:BE:454:TYR:CE1	2.14	0.82
2:At:573:THR:H	2:At:577:ARG:HH12	1.25	0.82
2:At:310:THR:OG1	2:BB:697:GLN:OE1	1.98	0.81
2:Ay:491:ILE:HD12	2:Ay:503:ASP:HB3	1.62	0.81
2:BA:492:PRO:HD3	2:BF:213:HIS:CD2	2.14	0.81
2:BA:517:ASN:HD21	2:BF:237:ASN:HB3	1.42	0.81
2:BB:412:GLY:N	2:BD:161:GLN:HG3	1.94	0.81
2:BA:701:GLU:HB2	2:BF:468:ARG:CG	2.10	0.81
2:BB:642:VAL:H	2:BC:629:GLN:HE22	1.27	0.81
2:A3:162:LYS:HD3	2:A3:164:LEU:HD21	1.62	0.81
2:As:373:GLU:HA	2:As:390:ILE:HG12	1.61	0.81
2:As:577:ARG:NH1	2:As:731:GLU:O	2.13	0.81
2:BC:206:ARG:H	2:BD:173:VAL:HG22	1.45	0.81
2:A4:358:ARG:HD2	2:A4:408:VAL:HG11	1.62	0.81
2:Av:158:SER:N	2:Ax:308:ASP:O	2.14	0.81
2:A1:424:ARG:NH2	2:A2:543:ASP:OD2	2.13	0.81
2:A4:311:ASP:OD1	2:A4:464:ASN:ND2	2.13	0.81
2:A9:546:ILE:O	2:A9:551:ARG:NH1	2.13	0.81
2:A4:242:ASN:ND2	2:Ay:488:PRO:O	2.13	0.81
2:Az:562:ASN:OD1	2:Az:721:ASN:ND2	2.13	0.81
2:BC:427:ASP:O	2:BD:537:ARG:NH2	2.13	0.81
2:A1:546:ILE:O	2:A1:551:ARG:NH1	2.14	0.81
2:BA:364:PHE:HB3	2:BA:402:VAL:HB	1.62	0.81
2:A8:546:ILE:O	2:A8:551:ARG:NH1	2.14	0.80
2:Av:165:ARG:NH1	2:Ax:351:LYS:O	2.13	0.80
2:BD:482:ALA:HB2	2:BE:167:MET:HG2	1.64	0.80
2:A5:165:ARG:HG3	2:A9:360:MET:HG2	1.62	0.80
2:A6:409:GLU:HA	2:A8:160:ASP:H	1.45	0.80
2:A7:459:ARG:NH1	2:A8:485:LEU:O	2.14	0.80
2:BD:486:LEU:HB2	2:BD:706:PRO:HG2	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:203:VAL:N	2:A0:479:GLU:O	2.11	0.80
2:A7:482:ALA:O	2:A7:709:ARG:NH1	2.14	0.80
2:A6:642:VAL:H	2:A7:629:GLN:HE22	1.27	0.80
2:Aw:562:ASN:OD1	2:Aw:721:ASN:ND2	2.14	0.80
2:A0:543:ASP:OD2	2:A9:424:ARG:NH1	2.15	0.80
2:Au:485:LEU:HG	2:Au:707:ARG:HG2	1.61	0.80
2:A6:562:ASN:OD1	2:A6:721:ASN:ND2	2.15	0.80
2:BB:562:ASN:OD1	2:BB:721:ASN:ND2	2.14	0.80
2:A0:482:ALA:HB2	2:A5:167:MET:HE2	1.62	0.80
2:A3:546:ILE:O	2:A3:551:ARG:NH1	2.15	0.80
2:As:736:PRO:HB2	2:Ax:734:LYS:HG2	1.64	0.80
2:Aw:546:ILE:O	2:Aw:551:ARG:NH1	2.14	0.80
2:BC:205:PHE:O	2:BD:171:SER:OG	1.99	0.80
2:A0:461:ASN:ND2	2:A6:160:ASP:OD2	2.15	0.80
2:A2:215:ARG:HG3	2:Aw:306:TYR:CD2	2.17	0.80
2:BC:562:ASN:OD1	2:BC:721:ASN:ND2	2.15	0.80
2:BF:485:LEU:HG	2:BF:707:ARG:HG2	1.64	0.80
6:Q:5:ARG:NH2	6:Q:6:TYR:O	2.15	0.80
2:A1:562:ASN:OD1	2:A1:721:ASN:ND2	2.15	0.79
2:Ar:373:GLU:HA	2:Ar:390:ILE:HG12	1.64	0.79
2:A8:373:GLU:HA	2:A8:390:ILE:HG12	1.63	0.79
2:BC:471:HIS:ND1	2:BD:490:SER:O	2.16	0.79
2:Av:160:ASP:OD2	2:Ax:313:LEU:HG	1.82	0.79
2:Az:214:LEU:HB3	2:BD:309:ASN:HB3	1.63	0.79
2:A2:486:LEU:HB2	2:A2:706:PRO:HG2	1.65	0.79
2:Av:562:ASN:OD1	2:Av:721:ASN:ND2	2.15	0.79
2:BG:562:ASN:OD1	2:BG:721:ASN:ND2	2.14	0.79
2:A4:482:ALA:O	2:A4:709:ARG:NH1	2.14	0.79
2:A6:459:ARG:NH1	2:A7:485:LEU:O	2.15	0.79
2:BB:349:PHE:HA	2:BD:164:LEU:C	2.07	0.79
2:BC:307:SER:HB3	2:BE:158:SER:CB	2.12	0.79
2:BH:546:ILE:O	2:BH:551:ARG:NH1	2.15	0.79
2:A5:165:ARG:HE	2:A9:350:GLN:H	1.27	0.79
2:Ay:459:ARG:NH1	2:Az:485:LEU:O	2.15	0.79
2:BA:162:LYS:HD3	2:BE:457:ARG:HA	1.65	0.79
2:A4:642:VAL:H	2:Ay:629:GLN:HE22	1.30	0.79
2:A7:424:ARG:NH2	2:A8:543:ASP:OD2	2.13	0.79
2:A8:219:ASP:O	2:BH:257:ASN:ND2	2.13	0.79
2:BA:174:PHE:CD1	2:BF:553:LEU:HA	2.17	0.79
2:A0:167:MET:HG2	2:A9:200:GLY:H	1.48	0.79
2:A4:562:ASN:OD1	2:A4:721:ASN:ND2	2.14	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:At:684:PRO:O	2:At:707:ARG:NH2	2.12	0.79
2:Ax:562:ASN:OD1	2:Ax:721:ASN:ND2	2.15	0.79
2:Ay:486:LEU:HB2	2:Ay:706:PRO:HG2	1.63	0.79
2:Az:162:LYS:HE2	2:Az:164:LEU:HD21	1.65	0.79
2:BA:162:LYS:HB2	2:BE:456:LEU:HB3	1.64	0.78
2:Ay:311:ASP:OD1	2:Ay:466:ARG:NH2	2.15	0.78
2:BA:161:GLN:O	2:BE:458:ILE:HD12	1.83	0.78
2:BB:360:MET:N	2:BB:406:SER:O	2.12	0.78
2:BA:491:ILE:HD11	2:BF:211:PHE:O	1.84	0.78
2:A0:562:ASN:OD1	2:A0:721:ASN:ND2	2.15	0.78
2:A9:562:ASN:OD1	2:A9:721:ASN:ND2	2.15	0.78
2:A1:158:SER:OG	2:BF:493:ARG:HB2	1.84	0.78
2:A5:562:ASN:OD1	2:A5:721:ASN:ND2	2.16	0.78
2:Au:546:ILE:O	2:Au:551:ARG:NH1	2.17	0.78
2:Aw:351:LYS:NZ	2:Aw:356:ASP:O	2.16	0.78
2:BA:577:ARG:NH1	2:BA:731:GLU:O	2.16	0.78
2:BF:486:LEU:HB2	2:BF:706:PRO:HG2	1.65	0.78
2:A3:660:ILE:HB	2:A3:720:ILE:HB	1.65	0.78
2:Ar:629:GLN:HE22	2:Aw:642:VAL:H	1.28	0.78
2:Ay:738:GLN:HB2	2:Az:734:LYS:HB3	1.65	0.78
2:BF:214:LEU:HD11	2:BF:223:ALA:HB1	1.65	0.78
7:R:8:PRO:HA	7:R:25:LYS:HB2	1.64	0.78
2:A3:562:ASN:OD1	2:A3:721:ASN:ND2	2.16	0.78
2:Av:200:GLY:H	2:Aw:167:MET:HG2	1.47	0.78
2:Ax:482:ALA:O	2:Ax:709:ARG:NH1	2.16	0.78
2:BH:562:ASN:OD1	2:BH:721:ASN:ND2	2.17	0.78
2:A7:562:ASN:OD1	2:A7:721:ASN:ND2	2.16	0.78
2:As:257:ASN:ND2	2:BH:219:ASP:O	2.17	0.78
2:A3:736:PRO:HB2	2:A4:734:LYS:HG2	1.64	0.78
2:Ar:562:ASN:OD1	2:Ar:721:ASN:ND2	2.16	0.78
2:Au:691:GLN:HA	2:Au:700:LYS:HA	1.66	0.78
2:Ay:562:ASN:OD1	2:Ay:721:ASN:ND2	2.17	0.78
2:Az:546:ILE:O	2:Az:551:ARG:NH1	2.16	0.78
2:BH:307:SER:HA	2:BH:466:ARG:HH12	1.49	0.78
2:A9:314:ASP:HB2	2:A9:459:ARG:HB2	1.66	0.77
2:Au:562:ASN:OD1	2:Au:721:ASN:ND2	2.17	0.77
2:Av:459:ARG:NH1	2:Aw:485:LEU:O	2.17	0.77
2:A0:310:THR:OG1	2:BE:697:GLN:OE1	1.99	0.77
2:A2:562:ASN:OD1	2:A2:721:ASN:ND2	2.17	0.77
2:A4:361:THR:H	2:Az:165:ARG:HD3	1.47	0.77
2:A5:364:PHE:HB3	2:A5:402:VAL:HB	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ax:301:ILE:HD11	2:Ax:460:ARG:HH22	1.46	0.77
2:BA:660:ILE:HB	2:BA:720:ILE:HB	1.65	0.77
2:BB:350:GLN:HG2	2:BD:165:ARG:HB3	1.64	0.77
2:BA:165:ARG:HH12	2:BE:403:TYR:C	1.92	0.77
2:A5:482:ALA:O	2:A5:709:ARG:NH1	2.17	0.77
2:A8:562:ASN:OD1	2:A8:721:ASN:ND2	2.16	0.77
2:As:562:ASN:OD1	2:As:721:ASN:ND2	2.15	0.77
2:Au:577:ARG:NH1	2:Au:731:GLU:O	2.16	0.77
2:Ay:306:TYR:N	2:BF:697:GLN:HG2	1.99	0.77
2:BA:165:ARG:NH1	2:BE:402:VAL:HG12	1.99	0.77
2:BC:205:PHE:H	2:BD:171:SER:HB3	1.49	0.77
2:A2:161:GLN:O	2:Az:358:ARG:NH2	2.16	0.77
2:Ar:691:GLN:HA	2:Ar:700:LYS:HA	1.64	0.77
2:Au:373:GLU:HA	2:Au:390:ILE:HG12	1.67	0.77
2:BC:546:ILE:O	2:BC:551:ARG:NH1	2.18	0.77
2:BE:242:ASN:ND2	2:BF:488:PRO:O	2.15	0.77
2:BE:346:THR:OG1	2:BE:365:ASP:O	2.01	0.77
2:BE:660:ILE:HB	2:BE:720:ILE:HB	1.67	0.77
2:A2:587:ASN:OD1	2:A3:578:ARG:NH2	2.17	0.77
2:A4:352:SER:HA	2:Az:165:ARG:NH2	2.00	0.77
2:A8:364:PHE:HB3	2:A8:402:VAL:HB	1.65	0.77
2:BA:161:GLN:HE22	2:BE:411:ALA:HB1	1.50	0.77
2:BB:242:ASN:ND2	2:BC:488:PRO:O	2.17	0.77
2:BC:360:MET:HB2	2:BE:164:LEU:HD12	1.65	0.77
2:A2:546:ILE:O	2:A2:551:ARG:NH1	2.17	0.77
2:A7:577:ARG:NH1	2:A7:731:GLU:O	2.18	0.77
2:Av:364:PHE:HB3	2:Av:402:VAL:HB	1.65	0.77
2:Az:660:ILE:HB	2:Az:720:ILE:HB	1.67	0.77
2:BB:362:LEU:HB2	2:BD:164:LEU:HB3	1.66	0.77
2:A0:364:PHE:HB3	2:A0:402:VAL:HB	1.65	0.77
2:A3:424:ARG:NH1	2:A4:543:ASP:OD2	2.16	0.77
2:BA:174:PHE:HB3	2:BF:207:ARG:HH11	1.49	0.77
2:A4:307:SER:HA	2:A4:466:ARG:HH12	1.49	0.76
2:A5:164:LEU:HB2	2:A9:360:MET:SD	2.26	0.76
2:BF:562:ASN:OD1	2:BF:721:ASN:ND2	2.17	0.76
2:Ax:546:ILE:O	2:Ax:551:ARG:NH1	2.18	0.76
2:BA:701:GLU:HB2	2:BF:468:ARG:HG3	1.67	0.76
2:BB:459:ARG:O	2:BD:162:LYS:NZ	2.18	0.76
2:BB:364:PHE:HB3	2:BB:402:VAL:HB	1.66	0.76
2:At:572:THR:HA	2:At:577:ARG:HH22	1.48	0.76
2:A6:695:ASN:ND2	2:BC:306:TYR:O	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BD:693:THR:HG23	2:BD:698:VAL:HG22	1.67	0.76
2:A5:200:GLY:H	2:A6:167:MET:HG2	1.50	0.76
2:As:310:THR:OG1	2:BG:697:GLN:OE1	2.04	0.76
2:Ay:483:ILE:HD11	2:Ay:681:LEU:HB3	1.67	0.76
2:BB:482:ALA:O	2:BB:709:ARG:NH1	2.18	0.76
2:A1:257:ASN:ND2	2:Ar:219:ASP:O	2.18	0.76
2:A2:373:GLU:HA	2:A2:390:ILE:HG12	1.68	0.76
2:A5:577:ARG:NH1	2:A5:731:GLU:O	2.19	0.76
2:BA:424:ARG:NH1	2:BB:543:ASP:OD2	2.18	0.76
2:BA:490:SER:HA	2:BF:470:LYS:N	2.01	0.76
2:BD:203:VAL:HG23	2:BE:169:PRO:HB2	1.68	0.76
2:BD:570:GLN:NE2	2:BE:572:THR:O	2.19	0.76
2:A5:216:ARG:HH21	2:BC:293:ILE:HD12	1.50	0.76
2:BB:684:PRO:O	2:BB:707:ARG:NH2	2.18	0.76
2:A1:200:GLY:H	2:A2:167:MET:HG2	1.51	0.76
2:Ay:373:GLU:HA	2:Ay:390:ILE:HG12	1.68	0.76
2:BB:546:ILE:O	2:BB:551:ARG:NH1	2.19	0.76
2:BE:562:ASN:OD1	2:BE:721:ASN:ND2	2.17	0.76
2:A8:252:ARG:NH2	2:As:218:ALA:O	2.18	0.76
2:Az:482:ALA:O	2:Az:709:ARG:NH1	2.19	0.76
2:BA:562:ASN:OD1	2:BA:721:ASN:ND2	2.19	0.76
2:BC:468:ARG:HB2	2:BD:490:SER:OG	1.86	0.76
2:Ar:459:ARG:NH1	2:As:485:LEU:O	2.20	0.75
2:Az:351:LYS:NZ	2:Az:356:ASP:O	2.16	0.75
2:BB:351:LYS:HB2	2:BB:360:MET:HE2	1.68	0.75
2:BD:562:ASN:OD1	2:BD:721:ASN:ND2	2.18	0.75
2:A3:349:PHE:HB3	2:A3:360:MET:HB3	1.68	0.75
2:A8:459:ARG:NH1	2:A9:485:LEU:O	2.18	0.75
2:BB:488:PRO:HB3	2:BB:705:GLN:HB2	1.68	0.75
2:A1:312:ALA:O	2:A1:460:ARG:HG3	1.86	0.75
2:Ar:684:PRO:O	2:Ar:707:ARG:NH2	2.20	0.75
2:Av:482:ALA:O	2:Av:709:ARG:NH1	2.19	0.75
2:BB:660:ILE:HB	2:BB:720:ILE:HB	1.67	0.75
2:Aw:482:ALA:O	2:Aw:709:ARG:NH1	2.19	0.75
2:BA:488:PRO:C	2:BF:242:ASN:HD21	1.95	0.75
2:BC:348:GLY:HA3	2:BE:167:MET:HE1	1.69	0.75
2:A4:350:GLN:NE2	2:Az:167:MET:SD	2.58	0.75
2:A1:247:LEU:HD11	2:A1:313:LEU:HD22	1.68	0.75
2:Ar:364:PHE:HB3	2:Ar:402:VAL:HB	1.68	0.75
2:Au:587:ASN:OD1	2:Av:578:ARG:NH2	2.19	0.75
2:Ax:312:ALA:O	2:Ax:460:ARG:HG3	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BC:478:GLN:OE1	2:BC:480:ARG:NH2	2.20	0.75
2:A2:424:ARG:NH2	2:A3:543:ASP:OD2	2.20	0.75
2:At:464:ASN:HB2	2:BB:697:GLN:HB2	1.69	0.75
2:Ay:738:GLN:HB2	2:Az:734:LYS:HD3	1.68	0.75
2:BC:311:ASP:OD1	2:BC:464:ASN:ND2	2.19	0.75
2:BC:548:GLY:O	2:BC:551:ARG:NH1	2.20	0.75
2:BE:396:ALA:HB1	2:BE:422:LEU:HD11	1.68	0.75
2:BF:684:PRO:O	2:BF:707:ARG:NH2	2.20	0.75
2:A5:424:ARG:NH1	2:A6:543:ASP:OD2	2.20	0.74
2:A9:482:ALA:O	2:A9:709:ARG:NH1	2.20	0.74
2:BD:481:TYR:O	2:BE:168:MET:N	2.14	0.74
2:BG:364:PHE:HB3	2:BG:402:VAL:HB	1.67	0.74
2:A9:462:ASN:ND2	2:A9:467:GLU:O	2.20	0.74
2:Ar:546:ILE:O	2:Ar:551:ARG:NH1	2.20	0.74
2:Av:301:ILE:HD11	2:Av:460:ARG:HH22	1.52	0.74
2:BB:351:LYS:NZ	2:BB:356:ASP:O	2.20	0.74
2:BH:539:ARG:O	2:BH:555:ARG:NH1	2.20	0.74
3:Ck:436:PHE:O	3:Ck:440:ASN:ND2	2.17	0.74
2:A1:350:GLN:NE2	2:Aw:354:GLU:OE2	2.21	0.74
2:BD:548:GLY:O	2:BD:551:ARG:NH1	2.20	0.74
2:BF:311:ASP:OD1	2:BF:464:ASN:ND2	2.19	0.74
2:BG:373:GLU:HA	2:BG:390:ILE:HG12	1.67	0.74
2:A4:408:VAL:HG13	2:Az:162:LYS:O	1.87	0.74
2:Av:660:ILE:HB	2:Av:720:ILE:HB	1.68	0.74
2:BD:482:ALA:O	2:BD:709:ARG:NH1	2.19	0.74
2:Ar:482:ALA:O	2:Ar:709:ARG:NH1	2.21	0.74
2:At:548:GLY:O	2:At:551:ARG:NH1	2.20	0.74
2:Av:351:LYS:NZ	2:Av:356:ASP:O	2.19	0.74
2:Az:301:ILE:HD11	2:Az:460:ARG:HH22	1.52	0.74
2:BC:352:SER:HB2	2:BE:165:ARG:HH12	1.52	0.74
2:BH:373:GLU:HA	2:BH:390:ILE:HG12	1.69	0.74
2:A4:313:LEU:HD12	2:Az:162:LYS:HD2	1.69	0.74
2:A5:691:GLN:HA	2:A5:700:LYS:HA	1.70	0.74
1:B:37:ASN:ND2	2:BA:302:LEU:O	2.20	0.74
2:At:570:GLN:NE2	2:At:729:TYR:OH	2.21	0.74
2:Ay:424:ARG:NH2	2:Az:543:ASP:OD2	2.19	0.74
2:BH:684:PRO:O	2:BH:707:ARG:NH2	2.16	0.74
2:A0:482:ALA:O	2:A0:709:ARG:NH1	2.19	0.74
2:Az:209:LEU:N	2:Az:473:ASP:O	2.21	0.74
2:BC:313:LEU:HB2	2:BE:162:LYS:CG	2.18	0.74
2:BD:577:ARG:NH1	2:BD:731:GLU:O	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BE:466:ARG:O	2:BF:694:ARG:NH2	2.20	0.74
2:BG:660:ILE:HB	2:BG:720:ILE:HB	1.69	0.74
2:A0:684:PRO:O	2:A0:707:ARG:NH2	2.19	0.73
2:A1:311:ASP:OD1	2:A1:464:ASN:ND2	2.21	0.73
2:A6:373:GLU:HA	2:A6:390:ILE:HG12	1.69	0.73
2:BA:165:ARG:HB3	2:BE:362:LEU:HD21	1.70	0.73
2:BA:548:GLY:O	2:BA:551:ARG:NH1	2.20	0.73
2:BB:351:LYS:HD2	2:BB:359:LYS:O	1.88	0.73
2:BG:546:ILE:O	2:BG:551:ARG:NH1	2.20	0.73
2:A9:660:ILE:HB	2:A9:720:ILE:HB	1.70	0.73
2:Ar:587:ASN:OD1	2:As:578:ARG:NH2	2.21	0.73
2:Av:349:PHE:HB3	2:Av:360:MET:HB3	1.69	0.73
2:BA:163:GLU:HB2	2:BE:317:ILE:CG2	2.17	0.73
2:BB:359:LYS:HA	2:BB:407:ASN:HA	1.69	0.73
3:Ck:693:ASP:N	3:Ck:693:ASP:OD1	2.18	0.73
2:A5:220:GLY:HA3	2:BC:295:ILE:HG12	1.71	0.73
2:As:558:PHE:HD1	2:As:717:LEU:HB3	1.53	0.73
2:BA:734:LYS:HZ2	2:BF:740:ASN:HB2	1.52	0.73
2:BC:313:LEU:HB2	2:BE:162:LYS:HG2	1.70	0.73
2:BC:458:ILE:HG23	2:BE:162:LYS:NZ	2.03	0.73
2:As:459:ARG:NH1	2:Ax:485:LEU:O	2.21	0.73
2:At:209:LEU:HD13	2:At:227:ARG:HG3	1.71	0.73
2:BB:272:ILE:O	2:BB:279:TYR:N	2.16	0.73
2:BC:317:ILE:HG12	2:BE:162:LYS:HZ2	1.53	0.73
2:Ay:482:ALA:O	2:Ay:709:ARG:NH1	2.18	0.73
2:BF:546:ILE:O	2:BF:551:ARG:NH1	2.21	0.73
2:A3:200:GLY:H	2:A4:167:MET:HG2	1.53	0.73
2:Ar:577:ARG:NH1	2:Ar:731:GLU:O	2.21	0.73
2:A1:159:TYR:O	2:BF:497:TRP:HB2	1.89	0.73
2:A8:482:ALA:O	2:A8:709:ARG:NH1	2.21	0.73
2:A0:424:ARG:NH2	2:A5:543:ASP:OD2	2.21	0.73
2:Au:432:GLU:HB2	2:Av:540:GLN:HE22	1.54	0.73
2:Az:684:PRO:O	2:Az:707:ARG:NH2	2.19	0.73
2:At:725:LEU:HA	2:At:727:LYS:HE2	1.69	0.73
2:BC:230:LEU:HB3	2:BD:176:VAL:HG21	1.71	0.73
2:Aw:684:PRO:O	2:Aw:707:ARG:NH2	2.19	0.73
2:Ay:485:LEU:HG	2:Ay:707:ARG:HG2	1.71	0.73
2:BC:485:LEU:HG	2:BC:707:ARG:HG2	1.70	0.73
2:A1:307:SER:HB3	2:A3:158:SER:HB3	1.70	0.72
2:A2:577:ARG:NH1	2:A2:731:GLU:O	2.21	0.72
2:A3:351:LYS:O	2:Ay:165:ARG:NH1	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A3:558:PHE:HD1	2:A3:717:LEU:HB3	1.54	0.72
2:At:350:GLN:NE2	2:BF:354:GLU:OE2	2.22	0.72
2:BD:558:PHE:HD1	2:BD:717:LEU:HB3	1.54	0.72
2:BE:580:GLU:HG2	2:BF:574:THR:H	1.54	0.72
2:A0:480:ARG:NH1	2:A9:350:GLN:OE1	2.20	0.72
2:A1:364:PHE:HB3	2:A1:402:VAL:HB	1.70	0.72
2:A2:432:GLU:HB2	2:A3:540:GLN:HE22	1.54	0.72
3:Ck:452:LYS:HA	3:Ck:455:TYR:HB3	1.69	0.72
2:A4:301:ILE:HD11	2:A4:460:ARG:HH22	1.55	0.72
2:Ax:364:PHE:HB3	2:Ax:402:VAL:HB	1.72	0.72
2:BC:312:ALA:O	2:BC:460:ARG:HG3	1.89	0.72
2:BE:430:ASN:O	2:BF:540:GLN:NE2	2.23	0.72
2:A0:538:PHE:HZ	2:A9:395:ALA:HB3	1.53	0.72
2:A6:312:ALA:HB3	2:A6:461:ASN:HB3	1.70	0.72
2:A9:312:ALA:HB3	2:A9:461:ASN:HB3	1.71	0.72
2:Aw:307:SER:HA	2:Aw:466:ARG:HH12	1.53	0.72
2:Aw:373:GLU:HA	2:Aw:390:ILE:HG12	1.70	0.72
2:BF:205:PHE:HD2	2:BF:206:ARG:H	1.35	0.72
2:BH:482:ALA:O	2:BH:709:ARG:NH1	2.21	0.72
2:A7:546:ILE:O	2:A7:551:ARG:NH1	2.23	0.72
2:Ar:424:ARG:NH2	2:As:543:ASP:OD2	2.22	0.72
2:As:424:ARG:NH1	2:Ax:543:ASP:OD2	2.15	0.72
2:BA:163:GLU:CB	2:BE:317:ILE:HG22	2.17	0.72
2:BA:174:PHE:CE2	2:BF:231:LEU:HB3	2.25	0.72
2:BE:311:ASP:OD1	2:BE:464:ASN:ND2	2.21	0.72
2:A0:373:GLU:HA	2:A0:390:ILE:HG12	1.69	0.72
2:A5:158:SER:HB3	2:A9:307:SER:HB3	1.71	0.72
2:At:497:TRP:O	2:At:700:LYS:NZ	2.23	0.72
2:Ay:548:GLY:O	2:Ay:551:ARG:NH1	2.23	0.72
2:BC:239:VAL:O	2:BC:470:LYS:NZ	2.22	0.72
2:BD:203:VAL:HG22	2:BE:170:TYR:H	1.54	0.72
2:BD:239:VAL:O	2:BD:470:LYS:NZ	2.22	0.72
2:BG:543:ASP:OD2	2:BH:424:ARG:NH2	2.21	0.72
2:As:482:ALA:O	2:As:709:ARG:NH1	2.21	0.72
2:Au:459:ARG:NH1	2:Av:485:LEU:O	2.22	0.72
2:Ay:305:GLY:C	2:BF:697:GLN:H	1.97	0.72
3:Ck:270:LEU:O	3:Ck:274:ASN:ND2	2.23	0.72
2:A2:202:ASP:N	2:A3:168:MET:O	2.22	0.72
2:A8:539:ARG:O	2:A8:555:ARG:NH1	2.23	0.72
2:Au:488:PRO:O	2:Ax:242:ASN:ND2	2.22	0.72
2:BD:691:GLN:HB2	2:BD:700:LYS:HG2	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:79:THR:OG1	1:B:82:GLU:OE1	2.08	0.72
2:A0:423:TYR:O	2:A0:435:ARG:NH2	2.22	0.72
2:Ay:432:GLU:HB2	2:Az:540:GLN:HE22	1.55	0.72
2:BB:307:SER:HB2	2:BD:158:SER:HB3	1.71	0.72
3:Ck:277:ARG:O	3:Ck:281:GLN:NE2	2.23	0.72
2:A0:629:GLN:HE22	2:A9:642:VAL:H	1.37	0.71
2:A1:167:MET:HG2	2:Az:200:GLY:H	1.55	0.71
2:A1:642:VAL:H	2:A2:629:GLN:HE22	1.37	0.71
2:At:482:ALA:O	2:At:709:ARG:NH1	2.23	0.71
2:BE:559:GLU:OE1	2:BE:595:ARG:NH1	2.23	0.71
2:A0:587:ASN:OD1	2:A5:578:ARG:NH2	2.23	0.71
2:A4:471:HIS:ND1	2:Ay:490:SER:O	2.21	0.71
2:A5:558:PHE:HD1	2:A5:717:LEU:HB3	1.53	0.71
2:BA:559:GLU:OE1	2:BA:595:ARG:NH1	2.20	0.71
2:BB:160:ASP:O	2:BF:409:GLU:HG3	1.90	0.71
2:BE:470:LYS:HB2	2:BF:489:PHE:CD2	2.24	0.71
3:Ck:247:LYS:HD3	3:Ck:374:THR:HG22	1.73	0.71
2:A1:295:ILE:HG12	2:Ar:220:GLY:HA3	1.71	0.71
2:BA:558:PHE:HD1	2:BA:717:LEU:HB3	1.53	0.71
2:BB:349:PHE:O	2:BD:166:ASP:HB3	1.89	0.71
2:A1:482:ALA:O	2:A1:709:ARG:NH1	2.23	0.71
2:A1:660:ILE:HB	2:A1:720:ILE:HB	1.73	0.71
2:A3:159:TYR:HH	2:Ar:225:TRP:CG	2.08	0.71
2:At:311:ASP:OD1	2:At:464:ASN:ND2	2.22	0.71
2:A6:482:ALA:O	2:A6:709:ARG:NH1	2.23	0.71
2:Au:424:ARG:NH2	2:Av:543:ASP:OD2	2.23	0.71
2:BE:684:PRO:O	2:BE:707:ARG:NH2	2.20	0.71
2:Ay:464:ASN:HB3	2:BF:698:VAL:O	1.90	0.71
2:BD:230:LEU:HD22	2:BE:506:VAL:HG13	1.72	0.71
2:BD:459:ARG:NH1	2:BE:485:LEU:O	2.24	0.71
2:BE:482:ALA:O	2:BE:709:ARG:NH1	2.24	0.71
2:A1:309:ASN:HA	2:A3:159:TYR:H	1.56	0.71
2:A5:165:ARG:HE	2:A9:350:GLN:N	1.89	0.71
2:At:479:GLU:OE1	2:At:481:TYR:OH	2.08	0.71
2:BE:530:LEU:HD22	2:BE:558:PHE:HB2	1.73	0.71
2:A4:350:GLN:CD	2:Ay:480:ARG:HD3	2.16	0.71
2:A4:424:ARG:NH2	2:Ay:543:ASP:OD2	2.22	0.71
2:A9:684:PRO:O	2:A9:707:ARG:NH2	2.20	0.71
2:Ay:305:GLY:H	2:BF:696:GLY:CA	2.03	0.71
2:BC:207:ARG:HB3	2:BD:174:PHE:H	1.56	0.71
2:BD:424:ARG:NH2	2:BE:543:ASP:OD2	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ck:623:GLN:NE2	3:Ck:627:ASN:OD1	2.24	0.71
2:A4:360:MET:SD	2:Az:164:LEU:N	2.63	0.71
2:A4:684:PRO:O	2:A4:707:ARG:NH2	2.20	0.71
2:Ay:305:GLY:O	2:BF:695:ASN:C	2.33	0.71
2:BB:348:GLY:H	2:BD:167:MET:HE2	1.54	0.71
2:BD:242:ASN:ND2	2:BE:488:PRO:O	2.20	0.71
2:BE:470:LYS:HB2	2:BF:489:PHE:HD2	1.55	0.71
2:BE:624:ASP:HB3	2:BE:656:LEU:O	1.90	0.71
2:Av:160:ASP:O	2:Ax:409:GLU:HA	1.89	0.71
2:A1:216:ARG:NE	2:A5:158:SER:OG	2.16	0.70
2:A7:242:ASN:ND2	2:A8:488:PRO:O	2.21	0.70
2:A9:219:ASP:O	2:Ar:257:ASN:ND2	2.24	0.70
2:BC:204:SER:HA	2:BD:171:SER:HB3	1.72	0.70
2:A8:218:ALA:O	2:BH:252:ARG:NH2	2.23	0.70
2:A0:488:PRO:O	2:A9:242:ASN:ND2	2.23	0.70
2:A6:697:GLN:OE1	2:BC:310:THR:OG1	2.08	0.70
2:Ar:543:ASP:OD2	2:Aw:424:ARG:NH2	2.20	0.70
2:A5:459:ARG:NH1	2:A6:485:LEU:O	2.24	0.70
2:Ax:660:ILE:HB	2:Ax:720:ILE:HB	1.71	0.70
2:BD:204:SER:H	2:BE:171:SER:HB2	1.53	0.70
2:BD:559:GLU:OE1	2:BD:595:ARG:NH1	2.24	0.70
2:A4:317:ILE:HD11	2:Az:162:LYS:NZ	2.05	0.70
2:A4:660:ILE:HB	2:A4:720:ILE:HB	1.74	0.70
2:A7:307:SER:HA	2:A7:466:ARG:HH12	1.56	0.70
2:A7:548:GLY:O	2:A7:551:ARG:NH1	2.24	0.70
2:A0:548:GLY:O	2:A0:551:ARG:NH1	2.25	0.70
2:A8:485:LEU:HG	2:A8:707:ARG:HG2	1.74	0.70
2:Ar:691:GLN:HB2	2:Ar:700:LYS:HG2	1.72	0.70
2:Aw:660:ILE:HB	2:Aw:720:ILE:HB	1.73	0.70
2:BC:465:ARG:HH12	2:BD:689:VAL:C	2.00	0.70
2:BH:364:PHE:HB3	2:BH:402:VAL:HB	1.72	0.70
2:A5:480:ARG:HB3	2:BC:354:GLU:HG2	1.73	0.70
2:A6:684:PRO:O	2:A6:707:ARG:NH2	2.20	0.70
2:As:660:ILE:HB	2:As:720:ILE:HB	1.73	0.70
2:A7:684:PRO:O	2:A7:707:ARG:NH2	2.21	0.70
2:Au:548:GLY:O	2:Au:551:ARG:NH1	2.25	0.70
2:Aw:311:ASP:OD1	2:Aw:464:ASN:ND2	2.24	0.70
3:Ck:273:ILE:HG22	3:Ck:277:ARG:HE	1.57	0.70
8:a:191:ALA:HB1	8:a:195:ARG:HH12	1.56	0.70
2:A8:218:ALA:HA	2:BH:297:GLU:HG3	1.73	0.70
2:Av:736:PRO:HB2	2:Aw:734:LYS:HG2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a:116:ILE:HG23	8:a:117:LEU:HD22	1.72	0.70
2:At:373:GLU:HA	2:At:390:ILE:HG12	1.73	0.69
2:BB:396:ALA:HB1	2:BB:422:LEU:HD11	1.74	0.69
2:BB:570:GLN:NE2	2:BC:733:ILE:O	2.23	0.69
2:BC:209:LEU:N	2:BC:473:ASP:O	2.21	0.69
2:BE:561:ILE:HD13	2:BF:726:ARG:HH22	1.55	0.69
2:A2:201:TYR:O	2:A2:481:TYR:N	2.16	0.69
2:A2:738:GLN:HB2	2:A3:734:LYS:HD3	1.73	0.69
2:A7:373:GLU:HA	2:A7:390:ILE:HG12	1.73	0.69
2:BC:539:ARG:O	2:BC:555:ARG:NH1	2.25	0.69
2:BD:691:GLN:HA	2:BD:700:LYS:HA	1.74	0.69
2:BG:684:PRO:O	2:BG:707:ARG:NH2	2.22	0.69
2:A3:684:PRO:O	2:A3:707:ARG:NH2	2.22	0.69
2:A4:736:PRO:HB2	2:Ay:734:LYS:HG2	1.74	0.69
2:A9:558:PHE:HD1	2:A9:717:LEU:HB3	1.57	0.69
2:Ar:487:ALA:HB1	2:Aw:244:VAL:HG22	1.73	0.69
2:Ar:548:GLY:O	2:Ar:551:ARG:NH1	2.25	0.69
2:Aw:349:PHE:HB3	2:Aw:360:MET:HB3	1.75	0.69
3:Ck:626:ARG:HD3	3:Ck:934:ALA:HB1	1.74	0.69
2:A1:158:SER:N	2:BF:497:TRP:HB3	2.08	0.69
2:A3:548:GLY:O	2:A3:551:ARG:NH1	2.25	0.69
2:A6:660:ILE:HB	2:A6:720:ILE:HB	1.72	0.69
2:A8:307:SER:HA	2:A8:466:ARG:HH12	1.56	0.69
2:A8:486:LEU:HB2	2:A8:706:PRO:HG2	1.75	0.69
2:BA:423:TYR:O	2:BA:435:ARG:NH2	2.26	0.69
2:BE:546:ILE:O	2:BE:551:ARG:NH1	2.25	0.69
2:BF:206:ARG:HE	2:BF:474:PHE:CB	2.05	0.69
3:Ck:172:THR:OG1	3:Ck:434:ARG:NE	2.25	0.69
5:O:95:HIS:O	5:P:36:TYR:OH	2.10	0.69
2:A3:351:LYS:NZ	2:A3:356:ASP:O	2.25	0.69
2:BD:660:ILE:HB	2:BD:720:ILE:HB	1.73	0.69
2:BE:558:PHE:HD1	2:BE:717:LEU:HB3	1.57	0.69
2:Ax:350:GLN:O	2:Ax:361:THR:N	2.21	0.69
2:BA:165:ARG:HH22	2:BE:404:GLY:N	1.90	0.69
2:BA:173:VAL:HB	2:BF:205:PHE:CG	2.27	0.69
2:BB:293:ILE:HB	2:BD:158:SER:O	1.93	0.69
2:BC:310:THR:C	2:BC:464:ASN:HD21	2.01	0.69
2:BC:684:PRO:O	2:BC:707:ARG:NH2	2.22	0.69
2:BG:548:GLY:O	2:BG:551:ARG:NH1	2.26	0.69
2:A1:734:LYS:HG2	2:Az:736:PRO:HB2	1.75	0.69
2:A5:160:ASP:O	2:A9:408:VAL:HG12	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Az:624:ASP:HB3	2:Az:656:LEU:O	1.93	0.69
2:BB:158:SER:N	2:BF:311:ASP:H	1.89	0.69
2:A4:349:PHE:CZ	2:A4:362:LEU:HB2	2.27	0.69
2:A6:697:GLN:NE2	2:BC:308:ASP:OD2	2.26	0.69
2:At:567:LYS:HD3	2:At:567:LYS:H	1.57	0.69
2:Aw:190:ASN:ND2	2:Aw:668:ILE:O	2.25	0.69
2:BA:491:ILE:O	2:BA:701:GLU:HG2	1.92	0.69
2:BB:689:VAL:HG22	2:BB:702:THR:HG23	1.73	0.69
2:BD:432:GLU:HB2	2:BE:540:GLN:HE22	1.57	0.69
2:BF:423:TYR:O	2:BF:435:ARG:NH2	2.26	0.69
2:BG:488:PRO:O	2:BH:242:ASN:ND2	2.23	0.69
2:A1:666:ARG:HE	2:A1:675:LEU:HD12	1.57	0.69
2:A3:624:ASP:HB3	2:A3:656:LEU:O	1.93	0.69
2:A5:737:VAL:HG22	2:A6:735:LEU:HB2	1.74	0.69
2:BA:491:ILE:N	2:BF:470:LYS:HA	2.07	0.69
2:A2:548:GLY:O	2:A2:551:ARG:NH1	2.26	0.69
2:A4:230:LEU:HD23	2:Ay:176:VAL:HB	1.75	0.69
2:A4:350:GLN:N	2:Az:165:ARG:HG2	2.07	0.69
2:Ar:486:LEU:HB2	2:Ar:706:PRO:HG2	1.75	0.69
2:As:364:PHE:HB3	2:As:402:VAL:HB	1.75	0.69
5:P:17:PHE:HB2	5:P:22:GLN:HE21	1.56	0.69
2:A0:239:VAL:O	2:A0:470:LYS:NZ	2.25	0.68
2:A1:684:PRO:O	2:A1:707:ARG:NH2	2.21	0.68
2:A5:180:ARG:HA	2:A5:512:ASN:HB3	1.76	0.68
2:A5:684:PRO:O	2:A5:707:ARG:NH2	2.20	0.68
2:A1:361:THR:H	2:A3:165:ARG:CD	2.07	0.68
2:A6:209:LEU:N	2:A6:473:ASP:O	2.25	0.68
2:As:548:GLY:O	2:As:551:ARG:NH1	2.27	0.68
2:BA:510:ALA:HA	2:BF:240:LEU:HD13	1.75	0.68
2:BD:483:ILE:HD11	2:BD:681:LEU:HB3	1.76	0.68
2:A1:158:SER:C	2:BF:493:ARG:HB3	2.18	0.68
2:As:200:GLY:H	2:Ax:167:MET:HG2	1.58	0.68
2:At:569:VAL:O	2:At:577:ARG:NH2	2.26	0.68
2:BB:313:LEU:HD13	2:BD:162:LYS:HG3	1.73	0.68
3:Ck:166:ASN:ND2	3:Ck:349:ALA:O	2.27	0.68
2:A5:548:GLY:O	2:A5:551:ARG:NH1	2.26	0.68
2:A6:364:PHE:HB3	2:A6:402:VAL:HB	1.73	0.68
2:A8:548:GLY:O	2:A8:551:ARG:NH1	2.26	0.68
2:Ar:297:GLU:OE2	2:Ar:307:SER:OG	2.08	0.68
2:Ay:558:PHE:HD1	2:Ay:717:LEU:HB3	1.58	0.68
6:Q:197:ARG:HA	6:Q:197:ARG:HE	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ay:460:ARG:NH1	2:Ay:466:ARG:HH11	1.91	0.68
2:BC:202:ASP:CG	2:BD:169:PRO:HG2	2.18	0.68
2:BC:621:VAL:N	2:BC:647:VAL:O	2.23	0.68
2:BD:684:PRO:O	2:BD:707:ARG:NH2	2.21	0.68
2:A1:631:LEU:O	2:Az:639:THR:HA	1.94	0.68
2:A2:202:ASP:HB2	2:A2:480:ARG:HE	1.58	0.68
2:Ar:242:ASN:ND2	2:As:488:PRO:O	2.23	0.68
2:Av:639:THR:HA	2:Aw:631:LEU:O	1.94	0.68
2:BA:701:GLU:HB3	2:BF:469:GLY:O	1.92	0.68
5:P:14:VAL:O	5:P:22:GLN:NE2	2.26	0.68
2:A2:364:PHE:HB3	2:A2:402:VAL:HB	1.74	0.68
2:A6:242:ASN:ND2	2:A7:488:PRO:O	2.22	0.68
2:BB:666:ARG:HE	2:BB:675:LEU:HD12	1.58	0.68
2:BC:481:TYR:O	2:BD:168:MET:N	2.26	0.68
2:A5:539:ARG:O	2:A5:555:ARG:NH1	2.26	0.68
2:A7:252:ARG:NH2	2:BG:218:ALA:O	2.27	0.68
2:A7:428:GLN:HA	2:A8:537:ARG:HH22	1.59	0.68
2:A9:245:THR:O	2:A9:460:ARG:N	2.21	0.68
2:Ax:373:GLU:HA	2:Ax:390:ILE:HG12	1.73	0.68
2:Ax:497:TRP:NE1	2:Ax:499:GLU:O	2.24	0.68
2:Az:208:PRO:HA	2:Az:474:PHE:HA	1.75	0.68
2:BA:396:ALA:HB1	2:BA:422:LEU:HD11	1.76	0.68
2:BB:317:ILE:HD11	2:BD:162:LYS:HB3	1.76	0.68
2:BC:307:SER:HA	2:BC:466:ARG:HH12	1.59	0.68
2:BE:269:PRO:HA	2:BE:282:SER:HB2	1.76	0.68
2:A0:215:ARG:HG3	2:Az:306:TYR:CE2	2.28	0.68
2:A2:161:GLN:C	2:Az:358:ARG:HH21	2.02	0.68
2:A4:361:THR:HB	2:Az:165:ARG:HH11	1.58	0.68
2:Ar:483:ILE:HD11	2:Ar:681:LEU:HB3	1.76	0.68
2:BA:489:PHE:HB3	2:BF:470:LYS:HE3	1.76	0.68
2:BG:485:LEU:O	2:BH:459:ARG:NH1	2.27	0.68
2:BA:490:SER:HA	2:BF:469:GLY:C	2.19	0.68
2:BA:701:GLU:HG3	2:BF:468:ARG:NH1	2.09	0.68
2:A3:209:LEU:N	2:A3:473:ASP:O	2.27	0.67
2:A4:361:THR:H	2:Az:165:ARG:CD	2.07	0.67
2:A5:546:ILE:O	2:A5:551:ARG:NH1	2.27	0.67
2:Az:163:GLU:O	2:Az:164:LEU:HD23	1.94	0.67
2:Az:548:GLY:O	2:Az:551:ARG:NH1	2.27	0.67
2:BA:163:GLU:HG2	2:BA:166:ASP:HB3	1.76	0.67
2:BC:333:LYS:HD3	2:BC:384:GLU:HB3	1.76	0.67
2:BC:587:ASN:OD1	2:BD:578:ARG:NH2	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BG:539:ARG:O	2:BG:555:ARG:NH1	2.27	0.67
2:A3:301:ILE:HD11	2:A3:460:ARG:HH22	1.59	0.67
2:As:684:PRO:O	2:As:707:ARG:NH2	2.23	0.67
2:A1:313:LEU:HA	2:A1:460:ARG:HA	1.76	0.67
2:A1:736:PRO:HB2	2:A2:734:LYS:HG2	1.76	0.67
2:A5:162:LYS:HD2	2:A9:461:ASN:HD22	1.58	0.67
2:Av:539:ARG:O	2:Av:555:ARG:NH1	2.28	0.67
2:BG:485:LEU:HG	2:BG:707:ARG:HG2	1.77	0.67
2:A2:220:GLY:HA3	2:Aw:295:ILE:HG12	1.76	0.67
2:A9:539:ARG:O	2:A9:555:ARG:NH1	2.28	0.67
2:As:642:VAL:H	2:Ax:629:GLN:HE22	1.42	0.67
2:Au:364:PHE:HB3	2:Au:402:VAL:HB	1.76	0.67
2:Au:486:LEU:HB2	2:Au:706:PRO:HG2	1.75	0.67
2:Ay:691:GLN:HB2	2:Ay:700:LYS:HG2	1.77	0.67
2:BA:689:VAL:O	2:BF:465:ARG:NH2	2.27	0.67
2:BB:349:PHE:HD2	2:BD:163:GLU:O	1.78	0.67
2:A2:242:ASN:ND2	2:A3:488:PRO:O	2.25	0.67
2:Au:691:GLN:HB2	2:Au:700:LYS:HG2	1.75	0.67
2:Aw:292:MET:HE2	2:Aw:458:ILE:HD12	1.77	0.67
2:BB:209:LEU:N	2:BB:473:ASP:O	2.26	0.67
2:A1:352:SER:HA	2:A3:165:ARG:NH2	2.09	0.67
2:A5:159:TYR:HB2	2:A9:309:ASN:HA	1.77	0.67
2:Au:684:PRO:O	2:Au:707:ARG:NH2	2.21	0.67
2:A0:201:TYR:O	2:A0:481:TYR:N	2.21	0.67
2:A4:410:LYS:HA	2:Az:159:TYR:CE1	2.30	0.67
2:A6:548:GLY:O	2:A6:551:ARG:NH1	2.27	0.67
2:A6:736:PRO:HB2	2:A7:734:LYS:HG2	1.75	0.67
2:BA:162:LYS:HE3	2:BE:247:LEU:O	1.94	0.67
2:A1:306:TYR:O	2:As:695:ASN:ND2	2.28	0.67
2:A6:272:ILE:O	2:A6:279:TYR:N	2.19	0.67
2:A7:209:LEU:N	2:A7:473:ASP:O	2.26	0.67
2:A8:660:ILE:HB	2:A8:720:ILE:HB	1.76	0.67
2:At:427:ASP:OD1	2:At:428:GLN:N	2.26	0.67
2:Ay:684:PRO:O	2:Ay:707:ARG:NH2	2.26	0.67
2:BD:364:PHE:HB3	2:BD:402:VAL:HB	1.77	0.67
2:BF:545:GLN:HG2	2:BF:552:TYR:OH	1.95	0.67
3:Ck:768:GLU:O	3:Ck:771:ARG:NE	2.27	0.67
2:A7:272:ILE:O	2:A7:279:TYR:N	2.20	0.67
2:A9:272:ILE:O	2:A9:279:TYR:N	2.20	0.67
2:BD:396:ALA:HB1	2:BD:422:LEU:HD11	1.77	0.67
2:A1:209:LEU:N	2:A1:473:ASP:O	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:209:LEU:N	2:A4:473:ASP:O	2.25	0.67
2:A4:307:SER:HB3	2:Az:158:SER:HB3	1.74	0.67
2:Au:485:LEU:O	2:Ax:459:ARG:NH1	2.28	0.67
2:Ax:311:ASP:OD1	2:Ax:464:ASN:ND2	2.28	0.67
2:BA:489:PHE:CZ	2:BF:242:ASN:HB2	2.30	0.67
2:A0:202:ASP:HB2	2:A0:480:ARG:HE	1.60	0.66
2:A5:485:LEU:HG	2:A5:707:ARG:HG2	1.76	0.66
2:Ar:165:ARG:NH1	2:Av:351:LYS:O	2.27	0.66
2:Ar:539:ARG:O	2:Ar:555:ARG:NH1	2.28	0.66
2:As:539:ARG:O	2:As:555:ARG:NH1	2.28	0.66
2:Ay:301:ILE:O	2:BF:696:GLY:HA2	1.95	0.66
2:BB:350:GLN:HG2	2:BD:165:ARG:O	1.95	0.66
2:A1:349:PHE:HB3	2:A3:165:ARG:CG	2.24	0.66
2:A4:373:GLU:HA	2:A4:390:ILE:HG12	1.76	0.66
2:A9:311:ASP:OD1	2:A9:464:ASN:ND2	2.27	0.66
2:At:633:THR:O	2:At:638:ARG:NH1	2.28	0.66
2:BA:269:PRO:HA	2:BA:282:SER:HB2	1.76	0.66
2:BB:291:ASP:OD1	2:BD:159:TYR:HA	1.95	0.66
2:BB:338:PRO:HD3	2:BB:378:VAL:HG22	1.77	0.66
2:BC:211:PHE:CE1	2:BC:473:ASP:HB2	2.29	0.66
2:BC:313:LEU:CA	2:BC:461:ASN:H	2.08	0.66
2:BC:360:MET:HG2	2:BE:165:ARG:NE	2.10	0.66
2:A3:691:GLN:HA	2:A3:700:LYS:HA	1.77	0.66
2:A8:587:ASN:OD1	2:A9:578:ARG:NH2	2.24	0.66
2:As:624:ASP:HB3	2:As:656:LEU:O	1.95	0.66
2:Av:247:LEU:HD21	2:Av:460:ARG:HB2	1.76	0.66
2:Av:548:GLY:O	2:Av:551:ARG:NH1	2.29	0.66
2:Av:624:ASP:HB3	2:Av:656:LEU:O	1.94	0.66
2:BH:548:GLY:O	2:BH:551:ARG:NH1	2.28	0.66
2:A2:200:GLY:HA3	2:A2:482:ALA:HA	1.76	0.66
2:Ay:364:PHE:HB3	2:Ay:402:VAL:HB	1.76	0.66
2:BC:481:TYR:N	2:BD:168:MET:H	1.93	0.66
2:BD:272:ILE:O	2:BD:279:TYR:N	2.23	0.66
2:A8:272:ILE:O	2:A8:279:TYR:N	2.23	0.66
2:BD:322:ILE:HA	2:BD:454:TYR:HA	1.78	0.66
2:A0:734:LYS:HG2	2:A9:736:PRO:HB2	1.78	0.66
2:A1:309:ASN:HB2	2:A3:159:TYR:HB2	1.77	0.66
2:A5:220:GLY:HA2	2:BC:294:GLY:C	2.21	0.66
2:A6:358:ARG:NH2	2:A8:161:GLN:O	2.19	0.66
2:Ar:488:PRO:O	2:Aw:242:ASN:ND2	2.24	0.66
2:BA:172:VAL:HB	2:BF:552:TYR:HB2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:260:TYR:CD1	2:BB:290:ILE:HG12	2.30	0.66
2:BE:494:PRO:O	2:BE:700:LYS:HE2	1.95	0.66
2:A0:350:GLN:HB3	2:BC:353:LEU:HD12	1.77	0.66
2:A1:216:ARG:NH1	2:A9:291:ASP:OD1	2.29	0.66
2:A2:695:ASN:HD21	2:A9:306:TYR:HE1	1.44	0.66
2:A8:244:VAL:HG22	2:A9:487:ALA:HB1	1.78	0.66
2:A8:684:PRO:O	2:A8:707:ARG:NH2	2.23	0.66
2:Ar:491:ILE:HD12	2:Ar:503:ASP:HB3	1.76	0.66
2:BA:486:LEU:HB2	2:BA:706:PRO:HG2	1.78	0.66
2:BE:539:ARG:O	2:BE:555:ARG:NH1	2.29	0.66
2:BH:660:ILE:HB	2:BH:720:ILE:HB	1.75	0.66
2:A4:349:PHE:HB3	2:Az:165:ARG:CB	2.26	0.66
2:A4:548:GLY:O	2:A4:551:ARG:NH1	2.29	0.66
2:As:351:LYS:NZ	2:As:356:ASP:O	2.24	0.66
2:At:240:LEU:HA	2:At:470:LYS:HZ2	1.61	0.66
2:Az:539:ARG:O	2:Az:555:ARG:NH1	2.29	0.66
2:BD:570:GLN:HB3	2:BE:574:THR:H	1.60	0.66
2:BE:468:ARG:HB2	2:BF:490:SER:OG	1.96	0.66
2:A0:202:ASP:N	2:A5:168:MET:O	2.29	0.66
2:A0:464:ASN:HB3	2:BE:697:GLN:HA	1.78	0.66
2:A0:631:LEU:O	2:A9:639:THR:HA	1.95	0.66
2:A1:548:GLY:O	2:A1:551:ARG:NH1	2.29	0.66
2:A8:306:TYR:O	2:Ax:695:ASN:ND2	2.29	0.66
2:BA:570:GLN:H	2:BB:574:THR:HG1	1.44	0.66
2:BC:486:LEU:HB2	2:BC:706:PRO:HG2	1.77	0.66
2:BD:738:GLN:CB	2:BE:734:LYS:HB3	2.26	0.66
2:BE:666:ARG:HE	2:BE:675:LEU:HD12	1.61	0.66
2:A9:287:ASP:OD2	2:Az:419:ASN:ND2	2.29	0.65
2:A9:419:ASN:ND2	2:Az:287:ASP:OD2	2.28	0.65
2:Ar:660:ILE:HB	2:Ar:720:ILE:HB	1.78	0.65
2:Ax:272:ILE:O	2:Ax:279:TYR:N	2.20	0.65
2:BA:184:MET:HE3	2:BA:519:MET:HE1	1.79	0.65
2:BA:502:ALA:HB2	2:BF:474:PHE:CE1	2.31	0.65
2:BB:190:ASN:ND2	2:BB:668:ILE:O	2.29	0.65
2:BB:313:LEU:HB3	2:BD:162:LYS:HE2	1.76	0.65
2:BH:209:LEU:N	2:BH:473:ASP:O	2.28	0.65
2:A1:272:ILE:O	2:A1:279:TYR:N	2.23	0.65
2:A3:539:ARG:O	2:A3:555:ARG:NH1	2.28	0.65
2:A7:230:LEU:HD23	2:A8:176:VAL:HB	1.79	0.65
2:Ay:202:ASP:N	2:Az:168:MET:O	2.28	0.65
2:BF:207:ARG:O	2:BF:474:PHE:HA	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:310:THR:O	2:A4:464:ASN:ND2	2.30	0.65
2:A6:314:ASP:HB2	2:A6:459:ARG:HB2	1.78	0.65
2:A8:558:PHE:HD1	2:A8:717:LEU:HB3	1.61	0.65
2:Ar:428:GLN:HA	2:As:537:ARG:HH22	1.60	0.65
2:Az:396:ALA:HB1	2:Az:422:LEU:HD11	1.78	0.65
2:Az:494:PRO:O	2:Az:700:LYS:HE2	1.96	0.65
2:BA:485:LEU:HG	2:BA:707:ARG:HG2	1.79	0.65
2:BA:736:PRO:HG2	2:BB:734:LYS:HA	1.78	0.65
2:BB:412:GLY:H	2:BD:161:GLN:HG3	1.60	0.65
4:G:176:GLU:HA	4:G:179:ARG:HB2	1.78	0.65
2:A1:307:SER:HA	2:A1:466:ARG:HH12	1.58	0.65
2:A1:629:GLN:HE22	2:Az:642:VAL:H	1.44	0.65
2:A3:486:LEU:HB2	2:A3:706:PRO:HG2	1.78	0.65
2:A3:642:VAL:H	2:A4:629:GLN:NE2	1.94	0.65
2:A3:694:ARG:HB2	2:A3:697:GLN:HG2	1.79	0.65
2:A3:695:ASN:HD21	2:Aw:306:TYR:HE1	1.43	0.65
2:A9:548:GLY:O	2:A9:551:ARG:NH1	2.29	0.65
2:Ar:209:LEU:N	2:Ar:473:ASP:O	2.26	0.65
2:BA:732:ASN:OD1	2:BF:570:GLN:NE2	2.27	0.65
2:BB:736:PRO:HG2	2:BC:734:LYS:HA	1.78	0.65
2:BC:480:ARG:C	2:BD:167:MET:HB3	2.21	0.65
2:A0:424:ARG:HH22	2:A5:543:ASP:CG	2.05	0.65
2:A4:349:PHE:HB3	2:Az:165:ARG:CG	2.26	0.65
2:A5:695:ASN:ND2	2:Az:306:TYR:OH	2.30	0.65
2:A6:639:THR:HA	2:A7:631:LEU:O	1.95	0.65
2:A9:396:ALA:HB1	2:A9:422:LEU:HD11	1.79	0.65
2:As:485:LEU:HG	2:As:707:ARG:HG2	1.79	0.65
2:BA:570:GLN:N	2:BB:574:THR:OG1	2.23	0.65
2:A1:333:LYS:HD3	2:A1:384:GLU:HB3	1.76	0.65
2:A1:466:ARG:NH2	2:As:695:ASN:O	2.30	0.65
2:A1:485:LEU:O	2:Az:459:ARG:NH1	2.30	0.65
2:A4:272:ILE:O	2:A4:279:TYR:N	2.21	0.65
2:A5:214:LEU:HD23	2:A5:225:TRP:CE2	2.32	0.65
2:A5:624:ASP:HB3	2:A5:656:LEU:O	1.97	0.65
2:Ax:684:PRO:O	2:Ax:707:ARG:NH2	2.21	0.65
2:Az:479:GLU:OE1	2:Az:481:TYR:OH	2.13	0.65
2:BA:163:GLU:HB3	2:BE:318:THR:O	1.96	0.65
2:BA:732:ASN:CG	2:BF:736:PRO:HG2	2.21	0.65
2:BA:734:LYS:NZ	2:BF:738:GLN:HG2	2.10	0.65
2:BC:365:ASP:CG	2:BC:401:GLU:HG2	2.22	0.65
2:BF:495:LEU:HD23	2:BF:700:LYS:HG3	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ck:141:LYS:HG3	3:Ck:371:PHE:HZ	1.61	0.65
2:A6:247:LEU:HD21	2:A6:460:ARG:HB2	1.79	0.65
2:Au:428:GLN:HA	2:Av:537:ARG:HH22	1.62	0.65
2:Aw:548:GLY:O	2:Aw:551:ARG:NH1	2.30	0.65
2:BB:164:LEU:HD21	2:BF:408:VAL:HG21	1.79	0.65
2:A1:373:GLU:HA	2:A1:390:ILE:HG12	1.78	0.65
2:A9:215:ARG:HG3	2:Ar:306:TYR:CD2	2.32	0.65
2:BC:619:CYS:N	2:BC:645:ASN:O	2.24	0.65
2:A2:666:ARG:HE	2:A2:675:LEU:HD12	1.61	0.65
2:A3:482:ALA:O	2:A3:709:ARG:NH1	2.28	0.65
2:A3:559:GLU:OE1	2:A3:595:ARG:NH1	2.29	0.65
2:A7:358:ARG:HH21	2:A9:161:GLN:C	2.05	0.65
2:As:306:TYR:O	2:BG:695:ASN:ND2	2.30	0.65
2:Ay:200:GLY:O	2:Az:168:MET:HB3	1.96	0.65
2:BB:307:SER:HA	2:BB:466:ARG:HH12	1.61	0.65
2:BC:245:THR:O	2:BC:460:ARG:N	2.23	0.65
2:A1:200:GLY:N	2:A2:167:MET:HG2	2.11	0.65
2:A5:161:GLN:HA	2:A9:408:VAL:HG12	1.79	0.65
2:BC:361:THR:N	2:BE:165:ARG:HD3	2.12	0.65
2:A6:666:ARG:HE	2:A6:675:LEU:HD12	1.61	0.64
2:A7:666:ARG:HE	2:A7:675:LEU:HD12	1.62	0.64
2:At:179:SER:O	2:At:512:ASN:ND2	2.30	0.64
2:Ay:201:TYR:O	2:Ay:481:TYR:N	2.23	0.64
2:BA:161:GLN:CG	2:BE:292:MET:HB2	2.27	0.64
2:BB:159:TYR:CD1	2:BF:409:GLU:HG2	2.31	0.64
2:BB:350:GLN:H	2:BD:165:ARG:N	1.95	0.64
2:BD:546:ILE:O	2:BD:551:ARG:NH1	2.29	0.64
2:BE:737:VAL:HG21	2:BF:737:VAL:HB	1.77	0.64
2:BG:487:ALA:HB1	2:BH:244:VAL:HG22	1.79	0.64
3:Ck:459:LYS:O	3:Ck:463:VAL:HB	1.96	0.64
3:Ck:470:LYS:HB3	3:Ck:474:LYS:HE2	1.78	0.64
2:A1:472:LEU:HD13	2:A2:506:VAL:HG12	1.79	0.64
2:A6:349:PHE:HB3	2:A6:360:MET:HB3	1.79	0.64
2:Az:349:PHE:HB3	2:Az:360:MET:HB3	1.79	0.64
2:BB:159:TYR:CE1	2:BF:409:GLU:HG2	2.33	0.64
3:Ck:143:ILE:HG21	3:Ck:406:SER:HB3	1.80	0.64
2:A4:396:ALA:HB1	2:A4:422:LEU:HD11	1.79	0.64
2:Ar:358:ARG:HD2	2:Ar:408:VAL:HB	1.78	0.64
2:Ay:691:GLN:HA	2:Ay:700:LYS:HA	1.79	0.64
2:BA:162:LYS:HA	2:BE:458:ILE:HB	1.78	0.64
2:BA:734:LYS:NZ	2:BF:740:ASN:HB2	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:548:GLY:O	2:BB:551:ARG:NH1	2.29	0.64
2:A1:216:ARG:HH21	2:A5:158:SER:C	2.05	0.64
2:A2:479:GLU:OE2	2:A2:551:ARG:NH2	2.30	0.64
2:As:165:ARG:HH12	2:Aw:353:LEU:CD2	2.11	0.64
2:Au:209:LEU:N	2:Au:473:ASP:O	2.31	0.64
2:BC:479:GLU:OE2	2:BC:551:ARG:NH2	2.30	0.64
2:BD:624:ASP:HB3	2:BD:656:LEU:O	1.98	0.64
2:BE:244:VAL:HG22	2:BF:487:ALA:HB1	1.80	0.64
2:A0:695:ASN:ND2	2:Ar:306:TYR:O	2.31	0.64
2:A2:694:ARG:HB2	2:A2:697:GLN:CG	2.27	0.64
2:A5:666:ARG:HE	2:A5:675:LEU:HD12	1.63	0.64
2:A6:642:VAL:H	2:A7:629:GLN:NE2	1.95	0.64
2:As:158:SER:OG	2:Aw:309:ASN:HA	1.98	0.64
2:Au:490:SER:HA	2:Au:702:THR:O	1.98	0.64
2:Ax:239:VAL:O	2:Ax:470:LYS:NZ	2.31	0.64
2:Ax:307:SER:HA	2:Ax:466:ARG:HH12	1.60	0.64
2:BA:537:ARG:HH12	2:BF:430:ASN:CA	2.07	0.64
2:BB:350:GLN:O	2:BB:360:MET:HB3	1.97	0.64
2:A0:485:LEU:O	2:A9:459:ARG:NH1	2.29	0.64
2:A6:539:ARG:O	2:A6:555:ARG:NH1	2.30	0.64
2:A8:491:ILE:HD12	2:A8:503:ASP:HB3	1.79	0.64
2:Av:684:PRO:O	2:Av:707:ARG:NH2	2.23	0.64
2:Az:219:ASP:O	2:BD:257:ASN:ND2	2.30	0.64
2:BA:172:VAL:HG22	2:BF:549:PHE:HA	1.79	0.64
2:BA:349:PHE:HB3	2:BA:360:MET:HB3	1.80	0.64
2:BH:666:ARG:HE	2:BH:675:LEU:HD12	1.63	0.64
8:a:66:LYS:O	8:a:268:ASN:ND2	2.31	0.64
2:A2:165:ARG:NH1	2:Az:351:LYS:O	2.30	0.64
2:Ar:734:LYS:HG2	2:Aw:736:PRO:HB2	1.79	0.64
2:Av:272:ILE:O	2:Av:279:TYR:N	2.25	0.64
6:Q:28:LEU:O	6:Q:81:TYR:OH	2.15	0.64
2:A2:459:ARG:NH1	2:A3:485:LEU:O	2.30	0.64
2:A2:696:GLY:HA3	2:A9:305:GLY:HA3	1.79	0.64
2:A6:190:ASN:ND2	2:A6:668:ILE:O	2.30	0.64
2:Au:487:ALA:HB1	2:Ax:244:VAL:HG22	1.80	0.64
2:Av:558:PHE:HD1	2:Av:717:LEU:HB3	1.62	0.64
2:Av:642:VAL:H	2:Aw:629:GLN:HE22	1.43	0.64
2:BA:667:GLY:H	6:Q:22:ARG:CZ	2.10	0.64
2:BB:350:GLN:HA	2:BD:166:ASP:HB2	1.80	0.64
8:a:179:GLU:OE2	8:a:183:ARG:NH2	2.29	0.64
2:A1:428:GLN:HA	2:A2:537:ARG:NH2	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:491:ILE:HD12	2:A2:503:ASP:HB3	1.80	0.64
2:A7:485:LEU:HG	2:A7:707:ARG:HG2	1.78	0.64
2:At:211:PHE:HB3	2:At:227:ARG:HB3	1.79	0.64
2:Aw:666:ARG:HE	2:Aw:675:LEU:HD12	1.63	0.64
2:BE:184:MET:HE3	2:BE:519:MET:HE1	1.78	0.64
2:BE:285:ALA:O	2:BE:454:TYR:OH	2.11	0.64
3:Ck:768:GLU:HG3	3:Ck:771:ARG:HH21	1.62	0.64
4:G:175:ASP:OD2	4:G:178:ARG:NH1	2.30	0.64
2:A1:349:PHE:CZ	2:A1:362:LEU:HB2	2.32	0.64
2:A6:314:ASP:N	2:A6:459:ARG:O	2.27	0.64
2:A6:740:ASN:HB3	2:A8:734:LYS:NZ	2.13	0.64
2:A7:364:PHE:HB3	2:A7:402:VAL:HB	1.80	0.64
2:As:242:ASN:ND2	2:Ax:488:PRO:O	2.28	0.64
2:BA:517:ASN:ND2	2:BF:237:ASN:HB3	2.11	0.64
3:Ck:412:MET:N	3:Ck:412:MET:SD	2.71	0.64
2:A2:660:ILE:HB	2:A2:720:ILE:HB	1.79	0.63
2:A6:314:ASP:HA	2:A8:162:LYS:HZ2	1.63	0.63
2:A7:539:ARG:O	2:A7:555:ARG:NH1	2.31	0.63
2:A8:242:ASN:ND2	2:A9:488:PRO:O	2.29	0.63
2:A8:559:GLU:OE1	2:A8:595:ARG:NH1	2.31	0.63
2:As:396:ALA:HB1	2:As:422:LEU:HD11	1.80	0.63
2:At:483:ILE:HG12	2:At:709:ARG:HB2	1.80	0.63
2:BB:301:ILE:HD11	2:BB:460:ARG:HH22	1.63	0.63
2:BC:458:ILE:HG23	2:BE:162:LYS:HZ3	1.63	0.63
2:Ar:176:VAL:HB	2:Aw:230:LEU:HD23	1.79	0.63
2:Ay:242:ASN:ND2	2:Az:488:PRO:O	2.28	0.63
2:BA:161:GLN:HE21	2:BE:292:MET:HB2	1.64	0.63
2:BA:461:ASN:ND2	2:BC:160:ASP:OD2	2.31	0.63
2:BA:701:GLU:HB2	2:BF:468:ARG:HB2	1.81	0.63
2:BD:204:SER:H	2:BE:171:SER:CB	2.10	0.63
2:BF:621:VAL:N	2:BF:647:VAL:O	2.29	0.63
2:A4:468:ARG:HB2	2:Ay:490:SER:OG	1.97	0.63
2:A5:486:LEU:HB2	2:A5:706:PRO:HG2	1.80	0.63
2:As:559:GLU:OE1	2:As:595:ARG:NH1	2.32	0.63
2:As:666:ARG:HE	2:As:675:LEU:HD12	1.63	0.63
2:Au:734:LYS:HG2	2:Ax:736:PRO:HB2	1.79	0.63
2:Ay:200:GLY:HA3	2:Ay:482:ALA:HA	1.79	0.63
2:BA:686:LEU:O	2:BA:705:GLN:N	2.28	0.63
2:BE:345:ILE:CG2	2:BE:346:THR:HG23	2.27	0.63
8:a:110:ASP:OD1	8:a:111:SER:N	2.32	0.63
2:A0:190:ASN:ND2	2:A0:668:ILE:O	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:488:PRO:HB3	2:A1:705:GLN:HB2	1.81	0.63
2:A5:491:ILE:HD12	2:A5:503:ASP:HB3	1.79	0.63
2:A7:292:MET:HE2	2:A7:458:ILE:HD12	1.81	0.63
2:As:164:LEU:HD11	2:Aw:408:VAL:HG21	1.79	0.63
2:Aw:396:ALA:HB1	2:Aw:422:LEU:HD11	1.78	0.63
2:BE:548:GLY:O	2:BE:551:ARG:NH1	2.31	0.63
2:A2:684:PRO:O	2:A2:707:ARG:NH2	2.24	0.63
2:A4:239:VAL:O	2:A4:470:LYS:NZ	2.31	0.63
2:A4:312:ALA:O	2:A4:460:ARG:HG3	1.98	0.63
2:Av:485:LEU:HG	2:Av:707:ARG:HG2	1.80	0.63
2:Ax:548:GLY:O	2:Ax:551:ARG:NH1	2.31	0.63
2:BA:161:GLN:NE2	2:BE:293:ILE:HG13	2.13	0.63
2:BE:349:PHE:CE1	2:BE:362:LEU:HD22	2.33	0.63
2:A1:161:GLN:HG3	2:BF:497:TRP:CZ3	2.30	0.63
2:A5:660:ILE:HB	2:A5:720:ILE:HB	1.78	0.63
2:Au:559:GLU:OE1	2:Au:595:ARG:NH1	2.31	0.63
2:BA:703:MET:HB2	2:BF:469:GLY:N	2.13	0.63
2:BB:468:ARG:HB2	2:BC:490:SER:OG	1.99	0.63
2:A2:307:SER:HA	2:A2:466:ARG:HH12	1.62	0.63
2:A2:428:GLN:HA	2:A3:537:ARG:HH22	1.64	0.63
2:Ar:272:ILE:O	2:Ar:279:TYR:N	2.26	0.63
2:Av:396:ALA:HB1	2:Av:422:LEU:HD11	1.80	0.63
2:BD:184:MET:HE3	2:BD:519:MET:HE1	1.81	0.63
2:BE:251:TYR:N	2:BE:280:LYS:O	2.30	0.63
2:A4:465:ARG:HH12	2:Ay:689:VAL:C	2.07	0.63
2:A4:666:ARG:HE	2:A4:675:LEU:HD12	1.63	0.63
2:A6:244:VAL:HG22	2:A7:487:ALA:HB1	1.79	0.63
2:Ar:666:ARG:HE	2:Ar:675:LEU:HD12	1.64	0.63
2:At:633:THR:H	2:At:638:ARG:HH11	1.45	0.63
2:Au:666:ARG:HE	2:Au:675:LEU:HD12	1.64	0.63
2:Ay:257:ASN:ND2	2:BE:219:ASP:O	2.31	0.63
2:BA:472:LEU:HD13	2:BB:506:VAL:HG12	1.81	0.63
2:BB:250:ILE:H	2:BB:295:ILE:HG22	1.64	0.63
2:BC:206:ARG:N	2:BD:173:VAL:HG22	2.12	0.63
2:BH:292:MET:HE2	2:BH:458:ILE:HD12	1.81	0.63
8:a:88:ALA:N	8:a:170:THR:O	2.29	0.63
1:B:91:GLU:OE2	2:At:236:TYR:OH	2.17	0.63
2:A0:244:VAL:HG22	2:A5:487:ALA:HB1	1.79	0.63
2:A0:629:GLN:NE2	2:A9:642:VAL:H	1.96	0.63
2:A1:158:SER:CB	2:BF:493:ARG:HB2	2.29	0.63
2:Ax:539:ARG:O	2:Ax:555:ARG:NH1	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ay:305:GLY:HA2	2:BF:694:ARG:CA	2.29	0.63
2:BE:576:GLU:OE1	2:BF:573:THR:HG22	1.99	0.63
2:A1:488:PRO:O	2:Az:242:ASN:ND2	2.29	0.62
2:A2:480:ARG:HD3	2:A3:167:MET:HB2	1.81	0.62
2:Ay:247:LEU:HD21	2:Ay:460:ARG:HB2	1.81	0.62
2:Az:364:PHE:HB3	2:Az:402:VAL:HB	1.80	0.62
2:BG:537:ARG:NH2	2:BH:428:GLN:HA	2.13	0.62
2:A4:358:ARG:HD2	2:A4:408:VAL:CG1	2.28	0.62
2:A5:691:GLN:HB2	2:A5:700:LYS:HG2	1.81	0.62
2:Aw:333:LYS:HD3	2:Aw:384:GLU:HB3	1.81	0.62
2:BA:506:VAL:HB	2:BF:472:LEU:HD13	1.81	0.62
2:BC:472:LEU:HD13	2:BD:506:VAL:HG12	1.81	0.62
2:A0:333:LYS:HD3	2:A0:384:GLU:HB3	1.82	0.62
2:A5:477:LYS:HG2	2:BC:356:ASP:HA	1.80	0.62
2:A7:472:LEU:HD13	2:A8:506:VAL:HG12	1.82	0.62
2:Au:394:SER:HA	2:Av:537:ARG:NH2	2.14	0.62
2:A2:485:LEU:HG	2:A2:707:ARG:HG2	1.81	0.62
2:A3:678:GLY:HA2	2:A3:712:ASN:HA	1.82	0.62
2:A8:220:GLY:HA3	2:BH:295:ILE:HG12	1.79	0.62
2:A9:310:THR:O	2:A9:464:ASN:ND2	2.31	0.62
2:Ar:423:TYR:O	2:Ar:435:ARG:NH2	2.32	0.62
2:Av:642:VAL:H	2:Aw:629:GLN:NE2	1.97	0.62
2:Ay:304:ASN:HA	2:BF:693:THR:HG23	1.80	0.62
2:BA:470:LYS:HB2	2:BB:489:PHE:CD2	2.34	0.62
3:Ck:263:PHE:HA	3:Ck:266:LEU:HB3	1.82	0.62
2:A4:539:ARG:O	2:A4:555:ARG:NH1	2.33	0.62
2:As:678:GLY:HA2	2:As:712:ASN:HA	1.82	0.62
2:BB:412:GLY:H	2:BD:161:GLN:NE2	1.98	0.62
2:BC:205:PHE:CD2	2:BD:173:VAL:N	2.67	0.62
2:BC:666:ARG:HE	2:BC:675:LEU:HD12	1.65	0.62
2:BD:666:ARG:HE	2:BD:675:LEU:HD12	1.64	0.62
2:A0:485:LEU:HG	2:A0:707:ARG:HG2	1.81	0.62
2:A9:624:ASP:HB3	2:A9:656:LEU:O	1.99	0.62
2:Ay:305:GLY:HA2	2:BF:694:ARG:N	2.15	0.62
2:Ay:693:THR:HG23	2:Ay:698:VAL:HG22	1.80	0.62
2:BB:642:VAL:H	2:BC:629:GLN:NE2	1.96	0.62
2:BC:691:GLN:HA	2:BC:700:LYS:HA	1.81	0.62
2:BE:304:ASN:ND2	2:BF:694:ARG:HD2	2.14	0.62
2:BF:333:LYS:HD3	2:BF:384:GLU:HB3	1.80	0.62
2:A0:272:ILE:O	2:A0:279:TYR:N	2.24	0.62
2:A9:479:GLU:OE1	2:A9:481:TYR:OH	2.18	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Au:230:LEU:HD23	2:Av:176:VAL:HB	1.82	0.62
2:Ay:693:THR:HA	2:Ay:698:VAL:HA	1.82	0.62
2:Az:666:ARG:HE	2:Az:675:LEU:HD12	1.65	0.62
2:BA:159:TYR:HD2	2:BE:295:ILE:HB	1.65	0.62
2:BB:350:GLN:CA	2:BD:166:ASP:HB2	2.29	0.62
2:BF:235:MET:HE1	2:BF:601:GLY:HA2	1.81	0.62
2:BF:495:LEU:HA	2:BF:700:LYS:HE2	1.80	0.62
2:A0:247:LEU:HD21	2:A0:460:ARG:HB2	1.81	0.62
2:A3:396:ALA:HB1	2:A3:422:LEU:HD11	1.82	0.62
2:A8:209:LEU:N	2:A8:473:ASP:O	2.29	0.62
2:Ar:734:LYS:NZ	2:Av:740:ASN:HB3	2.15	0.62
2:As:209:LEU:N	2:As:473:ASP:O	2.33	0.62
2:Au:629:GLN:NE2	2:Ax:642:VAL:H	1.97	0.62
2:Au:678:GLY:HA2	2:Au:712:ASN:HA	1.81	0.62
2:BA:169:PRO:C	2:BF:479:GLU:HB3	2.25	0.62
2:BA:208:PRO:HA	2:BA:474:PHE:HA	1.82	0.62
2:BA:351:LYS:NZ	2:BA:356:ASP:O	2.30	0.62
2:A0:354:GLU:OE2	2:BC:350:GLN:NE2	2.32	0.62
2:A1:497:TRP:NE1	2:A1:499:GLU:O	2.33	0.62
2:A4:494:PRO:O	2:A4:700:LYS:HE2	2.00	0.62
2:Ar:208:PRO:HA	2:Ar:474:PHE:HA	1.82	0.62
2:Aw:247:LEU:HD21	2:Aw:460:ARG:HB2	1.81	0.62
2:Az:215:ARG:HG3	2:BD:306:TYR:CD2	2.35	0.62
2:BA:164:LEU:O	2:BE:319:LEU:HD13	1.99	0.62
2:BA:167:MET:HB2	2:BE:347:ASN:ND2	2.15	0.62
2:BA:687:VAL:HG22	2:BA:704:VAL:HG22	1.80	0.62
2:BA:701:GLU:HB2	2:BF:468:ARG:CB	2.29	0.62
2:BA:701:GLU:HA	2:BF:471:HIS:NE2	2.14	0.62
5:P:12:ASP:OD1	5:P:15:ARG:NH1	2.33	0.62
2:A0:230:LEU:HD23	2:A5:176:VAL:HB	1.81	0.62
2:A1:695:ASN:ND2	2:BD:306:TYR:O	2.33	0.62
2:A6:678:GLY:HA2	2:A6:712:ASN:HA	1.81	0.62
2:A8:190:ASN:ND2	2:A8:668:ILE:O	2.33	0.62
2:A8:292:MET:HE2	2:A8:458:ILE:HD12	1.82	0.62
2:Au:483:ILE:HD11	2:Au:681:LEU:HB3	1.81	0.62
2:Az:247:LEU:HD21	2:Az:460:ARG:HB2	1.81	0.62
2:BC:483:ILE:HD11	2:BC:681:LEU:HB3	1.82	0.62
2:BG:666:ARG:HE	2:BG:675:LEU:HD12	1.65	0.62
2:A0:306:TYR:CD2	2:BD:215:ARG:HG3	2.35	0.61
2:A1:242:ASN:ND2	2:A2:488:PRO:O	2.22	0.61
2:A2:490:SER:HA	2:A2:702:THR:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A3:298:ASP:OD2	2:A3:300:SER:OG	2.18	0.61
2:A4:310:THR:C	2:A4:464:ASN:HD21	2.06	0.61
2:A7:301:ILE:HD11	2:A7:460:ARG:HH22	1.65	0.61
2:BC:472:LEU:HD13	2:BD:506:VAL:CG1	2.30	0.61
2:A5:396:ALA:HB1	2:A5:422:LEU:HD11	1.81	0.61
2:Ay:559:GLU:OE1	2:Ay:595:ARG:NH1	2.32	0.61
2:BA:169:PRO:HB3	2:BE:346:THR:H	1.66	0.61
2:BA:700:LYS:O	2:BF:471:HIS:NE2	2.31	0.61
2:BB:678:GLY:HA2	2:BB:712:ASN:HA	1.82	0.61
2:BD:349:PHE:HB3	2:BD:360:MET:HB3	1.82	0.61
2:BD:480:ARG:HD3	2:BE:167:MET:HB2	1.82	0.61
2:BD:694:ARG:HB2	2:BD:697:GLN:HG3	1.81	0.61
2:BE:338:PRO:HD3	2:BE:378:VAL:HG22	1.82	0.61
3:Ck:773:LEU:HB2	3:Ck:791:LEU:HD12	1.81	0.61
2:Ay:202:ASP:OD1	2:Ay:480:ARG:NE	2.33	0.61
2:BC:207:ARG:HB3	2:BD:173:VAL:HA	1.82	0.61
2:BC:349:PHE:HB3	2:BE:165:ARG:HG2	1.80	0.61
2:A1:215:ARG:HG3	2:A9:306:TYR:CE2	2.34	0.61
2:A4:214:LEU:HD11	2:A4:223:ALA:HB1	1.82	0.61
2:A8:298:ASP:OD2	2:A8:300:SER:OG	2.19	0.61
2:Au:242:ASN:ND2	2:Av:488:PRO:O	2.27	0.61
2:Ay:322:ILE:HA	2:Ay:454:TYR:HA	1.82	0.61
2:BA:492:PRO:HD3	2:BF:213:HIS:CG	2.35	0.61
2:BC:205:PHE:H	2:BD:171:SER:CB	2.12	0.61
2:BC:471:HIS:CE1	2:BD:492:PRO:HD3	2.36	0.61
2:BD:490:SER:HA	2:BD:702:THR:O	2.01	0.61
2:BE:248:HIS:HB2	2:BE:274:ILE:HD11	1.83	0.61
2:A1:166:ASP:O	2:Az:199:ILE:N	2.33	0.61
2:A1:239:VAL:O	2:A1:470:LYS:NZ	2.32	0.61
2:A5:159:TYR:H	2:A9:309:ASN:HA	1.66	0.61
2:A6:396:ALA:HB1	2:A6:422:LEU:HD11	1.82	0.61
2:Aw:494:PRO:O	2:Aw:700:LYS:HE2	2.01	0.61
2:Ay:298:ASP:OD2	2:Ay:300:SER:OG	2.18	0.61
2:Ay:694:ARG:HB2	2:Ay:697:GLN:HG3	1.82	0.61
2:BA:165:ARG:HE	2:BE:362:LEU:CD2	2.13	0.61
2:A1:353:LEU:HD13	2:Ar:480:ARG:NH1	2.16	0.61
2:A4:313:LEU:HG	2:Az:160:ASP:OD2	2.01	0.61
2:Ar:214:LEU:HD23	2:Ar:225:TRP:CE2	2.35	0.61
2:As:244:VAL:HG22	2:Ax:487:ALA:HB1	1.82	0.61
2:Ay:272:ILE:O	2:Ay:279:TYR:N	2.24	0.61
2:BE:678:GLY:HA2	2:BE:712:ASN:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:292:MET:HE2	2:A0:458:ILE:HD12	1.81	0.61
2:A3:459:ARG:NH1	2:A4:485:LEU:O	2.33	0.61
2:A6:360:MET:HE2	2:A8:164:LEU:HD22	1.82	0.61
2:Ar:396:ALA:HB1	2:Ar:422:LEU:HD11	1.83	0.61
2:Ar:485:LEU:O	2:Aw:459:ARG:NH1	2.34	0.61
2:As:158:SER:N	2:Aw:308:ASP:O	2.33	0.61
2:At:407:ASN:OD1	2:At:408:VAL:N	2.33	0.61
2:Ay:305:GLY:HA2	2:BF:694:ARG:C	2.24	0.61
2:BB:159:TYR:H	2:BF:309:ASN:HA	1.64	0.61
2:BC:190:ASN:ND2	2:BC:668:ILE:O	2.33	0.61
2:BC:577:ARG:NH1	2:BC:731:GLU:O	2.33	0.61
2:A0:158:SER:HB2	2:A8:310:THR:HB	1.80	0.61
2:Aw:464:ASN:OD1	2:Aw:464:ASN:N	2.29	0.61
2:Ay:740:ASN:HB3	2:Az:737:VAL:O	2.00	0.61
2:Az:308:ASP:OD2	2:Az:310:THR:OG1	2.17	0.61
2:BB:348:GLY:O	2:BD:166:ASP:N	2.33	0.61
2:BC:202:ASP:HB2	2:BD:168:MET:HE2	1.82	0.61
2:BC:207:ARG:CB	2:BD:174:PHE:H	2.12	0.61
2:BC:491:ILE:HD12	2:BC:503:ASP:HB3	1.82	0.61
2:A2:539:ARG:O	2:A2:555:ARG:NH1	2.33	0.61
2:Ar:190:ASN:ND2	2:Ar:668:ILE:O	2.33	0.61
2:Ar:200:GLY:H	2:As:167:MET:HG2	1.66	0.61
2:At:678:GLY:HA2	2:At:712:ASN:HA	1.82	0.61
2:BB:395:ALA:HB3	2:BC:538:PHE:HZ	1.66	0.61
4:G:69:VAL:HG13	4:G:120:VAL:HG22	1.82	0.61
2:A0:487:ALA:HB1	2:A9:244:VAL:HG22	1.82	0.61
2:A5:423:TYR:O	2:A5:435:ARG:NH2	2.34	0.61
2:A9:349:PHE:CZ	2:A9:362:LEU:HB2	2.36	0.61
2:Ar:292:MET:HE2	2:Ar:458:ILE:HD12	1.83	0.61
2:Ar:490:SER:HA	2:Ar:702:THR:O	2.01	0.61
2:Av:678:GLY:HA2	2:Av:712:ASN:HA	1.81	0.61
2:Ay:490:SER:HA	2:Ay:702:THR:O	2.00	0.61
2:BA:164:LEU:HD21	2:BE:456:LEU:HD23	1.83	0.61
2:BA:624:ASP:HB3	2:BA:656:LEU:O	2.00	0.61
2:BA:689:VAL:H	2:BF:465:ARG:HH21	1.48	0.61
8:a:57:LYS:HG2	8:a:58:LYS:HG3	1.83	0.61
8:a:156:GLU:HA	8:a:159:ARG:HE	1.65	0.61
2:A1:230:LEU:HD23	2:A2:176:VAL:HB	1.83	0.60
2:A5:693:THR:HG23	2:A5:698:VAL:HG22	1.82	0.60
2:A9:666:ARG:HE	2:A9:675:LEU:HD12	1.64	0.60
2:BA:322:ILE:HA	2:BA:454:TYR:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:701:GLU:HA	2:BF:471:HIS:CE1	2.36	0.60
2:BB:350:GLN:H	2:BD:165:ARG:H	1.49	0.60
2:BF:373:GLU:HA	2:BF:390:ILE:HG12	1.83	0.60
2:BF:490:SER:HA	2:BF:702:THR:O	2.00	0.60
2:BH:298:ASP:OD2	2:BH:300:SER:OG	2.17	0.60
2:A2:214:LEU:HD23	2:A2:225:TRP:CE2	2.36	0.60
2:A3:485:LEU:HG	2:A3:707:ARG:HG2	1.83	0.60
2:A4:409:GLU:HA	2:Az:161:GLN:HG2	1.82	0.60
2:Ar:490:SER:OG	2:Aw:468:ARG:HB2	2.02	0.60
2:As:737:VAL:HG22	2:Ax:735:LEU:HB2	1.83	0.60
2:At:356:ASP:OD1	2:At:357:PHE:N	2.34	0.60
2:Au:491:ILE:HD12	2:Au:503:ASP:HB3	1.80	0.60
2:BB:350:GLN:N	2:BD:165:ARG:H	1.98	0.60
2:BB:407:ASN:O	2:BD:161:GLN:HB3	2.02	0.60
2:BB:577:ARG:NH1	2:BB:731:GLU:O	2.34	0.60
8:a:36:THR:HG22	8:a:40:ASN:HD21	1.66	0.60
2:A1:629:GLN:NE2	2:Az:642:VAL:H	1.98	0.60
2:A2:394:SER:HA	2:A3:537:ARG:NH2	2.17	0.60
2:A8:624:ASP:HB3	2:A8:656:LEU:O	2.02	0.60
2:Ar:428:GLN:HA	2:As:537:ARG:NH2	2.15	0.60
2:Ay:244:VAL:HG22	2:Az:487:ALA:HB1	1.83	0.60
2:Ay:304:ASN:O	2:BF:693:THR:HG23	2.01	0.60
2:BE:163:GLU:O	2:BE:164:LEU:HD23	2.01	0.60
2:A2:160:ASP:OD2	2:Az:461:ASN:ND2	2.34	0.60
2:As:161:GLN:HA	2:Aw:358:ARG:HE	1.66	0.60
2:Aw:364:PHE:HB3	2:Aw:402:VAL:HB	1.84	0.60
2:BA:158:SER:CB	2:BE:250:ILE:HD12	2.32	0.60
2:BD:201:TYR:O	2:BE:169:PRO:HG2	2.01	0.60
2:BE:297:GLU:OE2	2:BE:307:SER:N	2.34	0.60
2:BG:396:ALA:HB1	2:BG:422:LEU:HD11	1.84	0.60
2:BG:578:ARG:NH2	2:BH:587:ASN:OD1	2.33	0.60
3:Ck:212:SER:HB2	3:Ck:331:ARG:HH21	1.66	0.60
5:O:54:VAL:HG23	5:O:84:ARG:HH22	1.65	0.60
2:A0:242:ASN:ND2	2:A5:488:PRO:O	2.29	0.60
2:A0:305:GLY:HA3	2:BE:695:ASN:HB2	1.84	0.60
2:Av:209:LEU:N	2:Av:473:ASP:O	2.34	0.60
2:Ay:466:ARG:NH2	2:BF:697:GLN:OE1	2.34	0.60
2:BA:159:TYR:HB3	2:BE:292:MET:O	2.01	0.60
2:BA:482:ALA:O	2:BA:709:ARG:NH1	2.27	0.60
2:BA:657:ARG:O	2:BA:659:LYS:N	2.34	0.60
2:BC:214:LEU:HD11	2:BC:223:ALA:HB1	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BD:244:VAL:HG22	2:BE:487:ALA:HB1	1.84	0.60
2:BH:396:ALA:HB1	2:BH:422:LEU:HD11	1.82	0.60
2:A2:244:VAL:HG22	2:A3:487:ALA:HB1	1.84	0.60
2:A3:247:LEU:HD21	2:A3:460:ARG:HB2	1.83	0.60
2:A4:462:ASN:ND2	2:A4:467:GLU:O	2.34	0.60
2:Av:165:ARG:NE	2:Ax:351:LYS:HB3	2.17	0.60
2:BA:559:GLU:CD	2:BA:595:ARG:HH12	2.10	0.60
3:Ck:775:ASP:O	3:Ck:790:HIS:ND1	2.35	0.60
2:A0:208:PRO:HA	2:A0:474:PHE:HA	1.84	0.60
2:A1:204:SER:N	2:A2:170:TYR:O	2.35	0.60
2:A4:350:GLN:H	2:Az:165:ARG:HG2	1.66	0.60
2:A8:306:TYR:CD2	2:As:215:ARG:HG3	2.36	0.60
2:Aw:239:VAL:O	2:Aw:470:LYS:NZ	2.35	0.60
2:BB:162:LYS:NZ	2:BF:461:ASN:O	2.34	0.60
2:A1:167:MET:HG2	2:Az:200:GLY:N	2.16	0.60
2:Ax:351:LYS:HD3	2:Ax:360:MET:HE2	1.84	0.60
2:BE:213:HIS:HB2	2:BE:471:HIS:NE2	2.17	0.60
2:BG:734:LYS:HG2	2:BH:736:PRO:HB2	1.83	0.60
7:R:5:ARG:H	7:R:5:ARG:HD2	1.66	0.60
2:A4:678:GLY:HA2	2:A4:712:ASN:HA	1.84	0.60
2:A9:239:VAL:O	2:A9:470:LYS:NZ	2.34	0.60
2:As:310:THR:O	2:Au:158:SER:HB2	2.02	0.60
2:Az:559:GLU:OE1	2:Az:595:ARG:NH1	2.33	0.60
2:BA:331:HIS:CE1	2:BA:387:GLN:HB3	2.37	0.60
2:BC:423:TYR:O	2:BC:435:ARG:NH2	2.35	0.60
2:BE:561:ILE:N	2:BE:719:LEU:O	2.32	0.60
2:A1:353:LEU:HD13	2:Ar:480:ARG:HH12	1.66	0.60
2:A4:313:LEU:HA	2:A4:461:ASN:H	1.65	0.60
2:A4:472:LEU:HD13	2:Ay:506:VAL:HG12	1.83	0.60
2:A6:488:PRO:HB3	2:A6:705:GLN:HB2	1.82	0.60
2:Ar:432:GLU:HB2	2:As:540:GLN:HE22	1.67	0.60
2:BA:493:ARG:O	2:BA:699:SER:HB2	2.02	0.60
2:BB:358:ARG:HD2	2:BB:408:VAL:HB	1.84	0.60
2:As:301:ILE:HD11	2:As:460:ARG:HH22	1.66	0.59
2:As:639:THR:HA	2:Ax:631:LEU:O	2.02	0.59
2:BB:360:MET:SD	2:BD:163:GLU:HA	2.43	0.59
2:BC:352:SER:HB2	2:BE:165:ARG:NH1	2.17	0.59
2:BC:469:GLY:HA3	2:BD:489:PHE:HA	1.83	0.59
3:Ck:589:TYR:HD2	3:Ck:854:PHE:HD2	1.48	0.59
3:Ck:843:ALA:HA	3:Ck:846:LYS:HE3	1.83	0.59
6:Q:12:TRP:CD1	6:Q:12:TRP:H	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:204:SER:HB2	2:A5:171:SER:HA	1.84	0.59
2:A3:338:PRO:HD3	2:A3:378:VAL:HG22	1.85	0.59
2:A4:333:LYS:HD3	2:A4:384:GLU:HB3	1.84	0.59
2:A6:239:VAL:O	2:A6:470:LYS:NZ	2.35	0.59
2:Ay:305:GLY:HA2	2:BF:694:ARG:H	1.66	0.59
2:BA:237:ASN:HA	2:BB:517:ASN:HD22	1.67	0.59
2:BB:350:GLN:N	2:BD:165:ARG:N	2.50	0.59
2:A0:468:ARG:HB2	2:A5:490:SER:OG	2.01	0.59
2:A2:180:ARG:HG3	2:A2:515:PHE:CD2	2.37	0.59
2:A9:695:ASN:ND2	2:BH:306:TYR:O	2.35	0.59
2:At:634:ASP:N	2:At:634:ASP:OD1	2.34	0.59
2:BB:360:MET:H	2:BB:406:SER:C	2.08	0.59
2:BD:394:SER:HA	2:BE:537:ARG:NH2	2.16	0.59
2:BD:485:LEU:HA	2:BD:707:ARG:HG2	1.83	0.59
2:BE:336:TYR:O	2:BE:378:VAL:HG23	2.01	0.59
2:A2:377:ASP:OD1	2:A2:381:ALA:N	2.36	0.59
2:A5:697:GLN:HA	2:Az:466:ARG:HH21	1.66	0.59
2:A8:239:VAL:O	2:A8:470:LYS:NZ	2.36	0.59
2:Ay:305:GLY:N	2:BF:694:ARG:O	2.35	0.59
2:BA:247:LEU:HD12	2:BA:458:ILE:HG22	1.83	0.59
2:BC:210:VAL:O	2:BC:227:ARG:HA	2.03	0.59
2:BD:482:ALA:HB2	2:BE:167:MET:CG	2.33	0.59
2:BD:674:PRO:HG3	2:BE:172:VAL:HG21	1.85	0.59
3:Ck:831:LEU:HD21	3:Ck:900:ARG:HA	1.84	0.59
2:A2:190:ASN:ND2	2:A2:668:ILE:O	2.35	0.59
2:A5:216:ARG:NH2	2:BC:293:ILE:HD12	2.18	0.59
2:A5:678:GLY:HA2	2:A5:712:ASN:HA	1.84	0.59
2:Au:539:ARG:O	2:Au:555:ARG:NH1	2.36	0.59
2:BC:360:MET:HA	2:BE:165:ARG:CZ	2.33	0.59
8:a:271:TRP:HA	8:a:271:TRP:CE3	2.38	0.59
2:A0:545:GLN:OE1	2:A9:366:THR:OG1	2.19	0.59
2:A1:190:ASN:ND2	2:A1:668:ILE:O	2.36	0.59
2:A9:338:PRO:HD3	2:A9:378:VAL:HG22	1.85	0.59
2:At:557:TRP:NE1	2:At:599:GLU:OE1	2.33	0.59
2:BA:162:LYS:O	2:BE:456:LEU:HD22	2.02	0.59
2:BA:491:ILE:HD13	2:BF:211:PHE:CE2	2.36	0.59
2:BB:360:MET:O	2:BB:406:SER:N	2.32	0.59
3:Ck:224:LEU:HA	3:Ck:227:LYS:HD2	1.84	0.59
2:A1:244:VAL:HG22	2:A2:487:ALA:HB1	1.84	0.59
2:Ax:190:ASN:ND2	2:Ax:668:ILE:O	2.36	0.59
2:Ay:738:GLN:CB	2:Az:734:LYS:HB3	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:298:ASP:OD2	2:BA:300:SER:OG	2.19	0.59
2:BC:408:VAL:O	2:BE:161:GLN:HA	2.02	0.59
2:BF:577:ARG:NH1	2:BF:731:GLU:O	2.35	0.59
2:A1:206:ARG:HB3	2:A2:173:VAL:HA	1.84	0.59
2:A1:489:PHE:HE2	2:Az:470:LYS:HD2	1.68	0.59
2:A6:204:SER:N	2:A7:170:TYR:O	2.35	0.59
2:Av:559:GLU:OE1	2:Av:595:ARG:NH1	2.33	0.59
2:Ax:209:LEU:N	2:Ax:473:ASP:O	2.36	0.59
2:Az:307:SER:HA	2:Az:466:ARG:HH12	1.68	0.59
2:BC:351:LYS:N	2:BE:165:ARG:HB3	2.17	0.59
2:BE:344:LEU:HD22	2:BE:368:SER:OG	2.03	0.59
2:BE:638:ARG:O	2:BF:632:GLN:HA	2.02	0.59
2:BF:687:VAL:HG22	2:BF:704:VAL:HG22	1.84	0.59
3:Ck:165:THR:HG22	3:Ck:168:PHE:HB3	1.83	0.59
2:A0:666:ARG:HE	2:A0:675:LEU:HD12	1.68	0.59
2:A1:204:SER:HB2	2:A2:171:SER:HA	1.84	0.59
2:A1:306:TYR:CD2	2:Ar:215:ARG:HG3	2.38	0.59
2:A5:490:SER:HA	2:A5:702:THR:O	2.03	0.59
2:A8:310:THR:OG1	2:Ax:697:GLN:OE1	2.19	0.59
2:Ar:394:SER:HA	2:As:537:ARG:NH2	2.18	0.59
2:As:486:LEU:HB2	2:As:706:PRO:HG2	1.85	0.59
2:As:740:ASN:HB3	2:Au:734:LYS:NZ	2.17	0.59
2:Ay:304:ASN:H	2:BF:696:GLY:CA	2.11	0.59
2:BA:174:PHE:CE2	2:BF:229:PRO:HB2	2.38	0.59
2:BA:506:VAL:HG13	2:BF:230:LEU:HD11	1.83	0.59
2:BA:557:TRP:NE1	2:BA:599:GLU:OE1	2.22	0.59
2:BC:693:THR:HG23	2:BC:698:VAL:HG22	1.84	0.59
2:BF:190:ASN:ND2	2:BF:668:ILE:O	2.36	0.59
2:A5:190:ASN:ND2	2:A5:668:ILE:O	2.35	0.59
2:A8:424:ARG:NH2	2:A9:543:ASP:OD2	2.36	0.59
2:A9:494:PRO:O	2:A9:700:LYS:HE2	2.02	0.59
2:As:158:SER:N	2:Aw:311:ASP:O	2.36	0.59
2:Ay:209:LEU:N	2:Ay:473:ASP:O	2.35	0.59
2:Ay:410:LYS:HA	2:BE:225:TRP:CZ2	2.37	0.59
2:BA:471:HIS:HA	2:BB:490:SER:O	2.03	0.59
2:BA:558:PHE:CD1	2:BA:717:LEU:HB3	2.35	0.59
2:BA:666:ARG:HE	2:BA:675:LEU:HD12	1.67	0.59
2:BD:489:PHE:CB	2:BD:507:LEU:HD22	2.33	0.59
2:BE:459:ARG:NH1	2:BF:485:LEU:O	2.35	0.59
2:BE:471:HIS:HD1	2:BF:491:ILE:HA	1.68	0.59
7:R:11:LEU:HD23	7:R:27:GLN:HG3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:349:PHE:HB3	2:A0:360:MET:HB3	1.84	0.58
2:A2:230:LEU:HD23	2:A3:176:VAL:HB	1.84	0.58
2:A6:409:GLU:O	2:A8:159:TYR:HA	2.02	0.58
2:A8:490:SER:HA	2:A8:702:THR:O	2.02	0.58
2:At:569:VAL:HG12	2:At:729:TYR:CD2	2.38	0.58
2:Au:272:ILE:O	2:Au:279:TYR:N	2.26	0.58
2:Aw:351:LYS:HD2	2:Aw:359:LYS:O	2.03	0.58
2:Ay:180:ARG:HG3	2:Ay:515:PHE:CD2	2.38	0.58
2:BD:373:GLU:HB2	2:BD:390:ILE:HG23	1.85	0.58
2:BD:481:TYR:O	2:BE:167:MET:HB3	2.02	0.58
2:BE:345:ILE:HG23	2:BE:346:THR:HG23	1.85	0.58
2:BF:562:ASN:HA	2:BF:721:ASN:HB2	1.85	0.58
2:A0:685:GLU:HG2	2:A0:706:PRO:HA	1.85	0.58
2:A1:365:ASP:CG	2:A1:401:GLU:HG2	2.28	0.58
2:A3:697:GLN:N	2:Aw:466:ARG:HH21	2.01	0.58
2:A6:424:ARG:NH1	2:A7:543:ASP:OD2	2.35	0.58
2:A9:350:GLN:NE2	2:Az:354:GLU:OE2	2.36	0.58
2:Ar:694:ARG:NH2	2:Ar:701:GLU:OE2	2.32	0.58
2:Aw:539:ARG:O	2:Aw:555:ARG:NH1	2.36	0.58
2:Ay:678:GLY:HA2	2:Ay:712:ASN:HA	1.85	0.58
2:Az:530:LEU:HD22	2:Az:558:PHE:HB2	1.84	0.58
2:BA:190:ASN:ND2	2:BA:668:ILE:O	2.36	0.58
2:BB:270:ARG:HE	2:BB:281:THR:HG23	1.66	0.58
2:BD:657:ARG:O	2:BD:659:LYS:N	2.36	0.58
2:BF:311:ASP:OD2	2:BF:466:ARG:NH1	2.36	0.58
6:Q:134:SER:N	6:Q:150:ASP:O	2.36	0.58
2:A0:252:ARG:NH2	2:BD:218:ALA:O	2.37	0.58
2:A3:272:ILE:O	2:A3:279:TYR:N	2.28	0.58
2:A5:570:GLN:N	2:A6:574:THR:OG1	2.32	0.58
2:A9:209:LEU:N	2:A9:473:ASP:O	2.35	0.58
2:A9:362:LEU:N	2:A9:404:GLY:O	2.18	0.58
2:Av:298:ASP:OD2	2:Av:300:SER:OG	2.18	0.58
2:Az:561:ILE:N	2:Az:719:LEU:O	2.34	0.58
2:BA:164:LEU:HD22	2:BE:454:TYR:CG	2.38	0.58
2:BE:200:GLY:H	2:BF:167:MET:HG2	1.68	0.58
1:B:26:PHE:CE2	2:At:299:ASP:HB3	2.38	0.58
2:A0:358:ARG:HH21	2:A6:161:GLN:C	2.10	0.58
2:A7:360:MET:HE3	2:A9:164:LEU:HD22	1.85	0.58
2:Ar:239:VAL:O	2:Ar:470:LYS:NZ	2.36	0.58
2:As:159:TYR:HA	2:Aw:409:GLU:O	2.03	0.58
2:At:314:ASP:OD1	2:At:315:ALA:N	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:At:485:LEU:HG	2:At:707:ARG:HG2	1.84	0.58
2:BA:209:LEU:N	2:BA:473:ASP:O	2.31	0.58
2:BA:678:GLY:HA2	2:BA:712:ASN:HA	1.85	0.58
2:BA:684:PRO:O	2:BA:707:ARG:NH2	2.26	0.58
2:BC:481:TYR:H	2:BD:168:MET:H	1.50	0.58
2:BE:250:ILE:HD13	2:BE:279:TYR:CD1	2.38	0.58
2:A0:295:ILE:HG12	2:BD:220:GLY:HA3	1.85	0.58
2:A5:165:ARG:HD2	2:A9:361:THR:H	1.69	0.58
2:Az:272:ILE:O	2:Az:279:TYR:N	2.25	0.58
2:BA:172:VAL:CG1	2:BF:552:TYR:HB2	2.33	0.58
2:BC:377:ASP:OD1	2:BC:381:ALA:N	2.37	0.58
2:BD:203:VAL:CG2	2:BE:170:TYR:H	2.16	0.58
2:BE:241:SER:O	2:BE:470:LYS:HE3	2.02	0.58
2:BE:435:ARG:HA	2:BE:440:PHE:CD2	2.39	0.58
2:A0:202:ASP:CB	2:A0:480:ARG:HE	2.17	0.58
2:A2:209:LEU:N	2:A2:473:ASP:O	2.32	0.58
2:Ax:694:ARG:HB2	2:Ax:697:GLN:HG3	1.85	0.58
2:BE:319:LEU:HG	2:BE:320:THR:N	2.15	0.58
2:BE:472:LEU:HD13	2:BF:506:VAL:HG12	1.86	0.58
4:G:206:GLY:O	4:G:210:ARG:HG3	2.02	0.58
6:Q:30:ASP:OD2	6:Q:33:SER:N	2.35	0.58
2:A1:190:ASN:O	2:A1:680:PHE:N	2.31	0.58
2:A1:311:ASP:HB2	2:A3:158:SER:N	2.19	0.58
2:A1:349:PHE:HB3	2:A3:165:ARG:HG2	1.83	0.58
2:A1:361:THR:H	2:A3:165:ARG:HD3	1.69	0.58
2:A4:689:VAL:HG22	2:A4:702:THR:HG23	1.86	0.58
2:A9:559:GLU:OE1	2:A9:595:ARG:NH1	2.36	0.58
2:BC:480:ARG:HA	2:BD:168:MET:O	2.04	0.58
2:BE:465:ARG:CZ	2:BF:688:SER:HB2	2.34	0.58
2:BF:691:GLN:NE2	2:BF:698:VAL:HG13	2.19	0.58
2:BG:694:ARG:HB2	2:BG:697:GLN:HG3	1.84	0.58
2:BH:272:ILE:O	2:BH:279:TYR:N	2.25	0.58
2:BH:678:GLY:HA2	2:BH:712:ASN:HA	1.86	0.58
6:Q:17:ILE:HD11	6:Q:28:LEU:HD21	1.85	0.58
2:A1:476:MET:HE2	2:A9:357:PHE:HB3	1.85	0.58
2:A2:494:PRO:O	2:A2:700:LYS:HE2	2.03	0.58
2:A2:740:ASN:HB3	2:A3:737:VAL:O	2.03	0.58
2:A5:161:GLN:HB3	2:A9:358:ARG:HE	1.68	0.58
2:A7:298:ASP:OD2	2:A7:300:SER:OG	2.19	0.58
2:Ar:506:VAL:HG12	2:Aw:472:LEU:HD13	1.86	0.58
2:Av:158:SER:N	2:Ax:311:ASP:HB2	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Aw:666:ARG:NH1	2:Aw:668:ILE:HD11	2.19	0.58
2:A1:495:LEU:HD23	2:A1:700:LYS:HG3	1.86	0.58
2:A1:734:LYS:HA	2:Az:736:PRO:HG2	1.86	0.58
2:A6:190:ASN:O	2:A6:680:PHE:N	2.33	0.58
2:A6:308:ASP:O	2:A8:158:SER:N	2.37	0.58
2:A8:666:ARG:HE	2:A8:675:LEU:HD12	1.68	0.58
2:Av:486:LEU:HB2	2:Av:706:PRO:HG2	1.86	0.58
2:Ax:351:LYS:HA	2:Ax:360:MET:HG2	1.85	0.58
2:BB:164:LEU:HD22	2:BF:360:MET:HE3	1.86	0.58
2:A1:214:LEU:HD21	2:A1:223:ALA:HB3	1.84	0.58
2:A1:357:PHE:HB3	2:Ar:476:MET:HE2	1.85	0.58
2:A5:165:ARG:CG	2:A9:349:PHE:HB3	2.34	0.58
2:A5:218:ALA:O	2:BC:252:ARG:NH2	2.36	0.58
2:A6:351:LYS:O	2:A8:165:ARG:NH1	2.37	0.58
2:Au:176:VAL:HB	2:Ax:230:LEU:HD23	1.86	0.58
2:Ax:464:ASN:N	2:Ax:464:ASN:OD1	2.35	0.58
2:BC:480:ARG:HG3	2:BD:168:MET:C	2.28	0.58
2:BD:672:PRO:HB3	2:BD:679:MET:SD	2.44	0.58
2:BD:738:GLN:HB2	2:BE:734:LYS:HB3	1.86	0.58
2:BE:190:ASN:ND2	2:BE:668:ILE:O	2.37	0.58
2:BG:537:ARG:HH21	2:BH:394:SER:HA	1.68	0.58
4:G:175:ASP:OD1	4:G:176:GLU:N	2.35	0.58
5:P:56:GLU:O	5:P:60:LYS:NZ	2.24	0.58
2:A2:218:ALA:O	2:Aw:252:ARG:NH2	2.37	0.57
2:As:237:ASN:HA	2:Ax:517:ASN:HD22	1.69	0.57
2:Au:377:ASP:OD1	2:Au:381:ALA:N	2.37	0.57
2:BA:491:ILE:HG22	2:BF:471:HIS:HD2	1.69	0.57
2:A1:359:LYS:C	2:A1:360:MET:HG3	2.29	0.57
2:At:623:THR:OG1	2:At:624:ASP:N	2.37	0.57
2:Ay:377:ASP:OD1	2:Ay:381:ALA:N	2.36	0.57
2:BA:489:PHE:CE2	2:BF:242:ASN:HB2	2.39	0.57
2:BE:430:ASN:ND2	2:BF:537:ARG:O	2.36	0.57
2:A1:168:MET:SD	2:Az:201:TYR:OH	2.59	0.57
2:A6:270:ARG:HE	2:A6:281:THR:HG23	1.69	0.57
2:As:160:ASP:OD1	2:As:161:GLN:N	2.37	0.57
2:Av:535:THR:O	2:Av:539:ARG:HB2	2.05	0.57
2:Ax:485:LEU:HG	2:Ax:707:ARG:HG2	1.86	0.57
2:BB:494:PRO:O	2:BB:700:LYS:HE2	2.04	0.57
2:BE:570:GLN:HB2	2:BF:732:ASN:CG	2.29	0.57
2:A1:570:GLN:HB2	2:A2:732:ASN:CG	2.29	0.57
2:A3:685:GLU:HG2	2:A3:706:PRO:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A6:353:LEU:HD23	2:A8:165:ARG:HH22	1.69	0.57
2:A7:239:VAL:O	2:A7:470:LYS:NZ	2.38	0.57
2:Aw:338:PRO:HD3	2:Aw:378:VAL:HG22	1.84	0.57
2:Ay:305:GLY:HA2	2:BF:694:ARG:HB2	1.86	0.57
2:Az:298:ASP:OD2	2:Az:300:SER:OG	2.18	0.57
2:BA:565:LEU:HD12	2:BA:725:LEU:HA	1.86	0.57
2:BA:694:ARG:NH1	2:BF:304:ASN:HD21	1.97	0.57
2:BC:205:PHE:HD2	2:BD:173:VAL:H	1.49	0.57
2:BD:736:PRO:HG3	2:BE:732:ASN:ND2	2.19	0.57
2:BF:205:PHE:HD2	2:BF:206:ARG:N	2.01	0.57
3:Ck:602:LEU:HD23	3:Ck:897:GLU:HG3	1.86	0.57
2:A1:158:SER:CA	2:BF:497:TRP:HB3	2.34	0.57
2:A1:208:PRO:HA	2:A1:474:PHE:HA	1.86	0.57
2:A2:333:LYS:HD3	2:A2:384:GLU:HB3	1.86	0.57
2:A5:164:LEU:HD11	2:A9:313:LEU:HD12	1.86	0.57
2:A6:360:MET:HG2	2:A8:164:LEU:HD13	1.85	0.57
2:A7:685:GLU:HG2	2:A7:706:PRO:HA	1.85	0.57
2:Ar:322:ILE:HA	2:Ar:454:TYR:HA	1.86	0.57
2:Az:184:MET:HE3	2:Az:519:MET:HE1	1.85	0.57
2:BA:158:SER:HB3	2:BE:250:ILE:HD12	1.86	0.57
2:BA:167:MET:HE3	2:BE:319:LEU:HB3	1.87	0.57
2:BA:732:ASN:ND2	2:BF:736:PRO:HG2	2.18	0.57
2:BC:206:ARG:H	2:BD:173:VAL:CG2	2.15	0.57
2:BC:313:LEU:HA	2:BC:460:ARG:HA	1.86	0.57
2:BC:314:ASP:CB	2:BC:459:ARG:HB2	2.34	0.57
2:BG:624:ASP:HB3	2:BG:656:LEU:O	2.04	0.57
3:Ck:136:VAL:HG13	3:Ck:403:PHE:HE1	1.68	0.57
3:Ck:235:LEU:HD11	3:Ck:409:ILE:HG12	1.86	0.57
8:a:207:ALA:HA	8:a:210:ARG:HE	1.68	0.57
2:A1:485:LEU:HG	2:A1:707:ARG:HG2	1.85	0.57
2:A2:559:GLU:OE1	2:A2:595:ARG:NH1	2.34	0.57
2:A2:734:LYS:NZ	2:Az:740:ASN:HB3	2.19	0.57
2:A3:694:ARG:CG	2:A3:697:GLN:HE21	2.18	0.57
2:A8:184:MET:HE3	2:A8:519:MET:HE1	1.87	0.57
2:Ar:394:SER:HA	2:As:537:ARG:HH21	1.70	0.57
2:Aw:190:ASN:O	2:Aw:680:PHE:N	2.31	0.57
2:BA:703:MET:HB2	2:BF:469:GLY:H	1.69	0.57
4:G:199:ASP:N	4:G:199:ASP:OD1	2.37	0.57
2:A4:642:VAL:H	2:Ay:629:GLN:NE2	1.99	0.57
2:Ay:560:GLU:HG3	2:Ay:719:LEU:HB3	1.86	0.57
2:Az:558:PHE:HD1	2:Az:717:LEU:HB3	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:176:VAL:CG2	2:BF:231:LEU:HA	2.35	0.57
2:BA:703:MET:HE1	2:BF:467:GLU:HB3	1.87	0.57
2:BB:428:GLN:HA	2:BC:537:ARG:HH21	1.70	0.57
2:BC:272:ILE:O	2:BC:279:TYR:N	2.30	0.57
2:BE:373:GLU:HB2	2:BE:390:ILE:HG23	1.86	0.57
2:BE:689:VAL:HG22	2:BE:702:THR:HG23	1.87	0.57
2:BF:365:ASP:CG	2:BF:401:GLU:HG2	2.29	0.57
2:BF:377:ASP:OD1	2:BF:381:ALA:N	2.38	0.57
2:BG:176:VAL:HB	2:BH:230:LEU:HD23	1.86	0.57
2:BG:298:ASP:OD2	2:BG:300:SER:OG	2.18	0.57
8:a:202:LYS:HB3	8:a:206:LYS:HE3	1.86	0.57
2:A0:678:GLY:HA2	2:A0:712:ASN:HA	1.86	0.57
2:A8:319:LEU:HA	2:A8:456:LEU:HD23	1.87	0.57
2:BA:170:TYR:CE2	2:BF:549:PHE:HB3	2.40	0.57
2:BA:395:ALA:HB3	2:BB:538:PHE:HZ	1.70	0.57
2:BB:311:ASP:OD1	2:BB:464:ASN:ND2	2.37	0.57
2:BB:559:GLU:OE1	2:BB:595:ARG:NH1	2.35	0.57
2:BE:202:ASP:HB3	2:BF:169:PRO:HA	1.87	0.57
2:A0:497:TRP:NE1	2:A0:499:GLU:O	2.35	0.57
2:A2:200:GLY:O	2:A3:168:MET:HB3	2.05	0.57
2:A5:242:ASN:ND2	2:A6:488:PRO:O	2.35	0.57
2:A7:737:VAL:C	2:A8:734:LYS:HD3	2.30	0.57
2:A8:560:GLU:HG3	2:A8:719:LEU:HB3	1.87	0.57
2:Av:666:ARG:HE	2:Av:675:LEU:HD12	1.69	0.57
2:BA:701:GLU:HG3	2:BF:468:ARG:HH11	1.70	0.57
2:BC:314:ASP:HB2	2:BC:459:ARG:HB2	1.86	0.57
2:BF:689:VAL:HG22	2:BF:702:THR:HG23	1.87	0.57
2:BG:482:ALA:O	2:BG:709:ARG:NH1	2.34	0.57
2:BH:488:PRO:HB3	2:BH:705:GLN:HB2	1.87	0.57
8:a:59:ARG:NH1	8:a:205:LYS:HE3	2.20	0.57
8:a:92:ASN:HD21	8:a:166:THR:HA	1.70	0.57
2:A0:483:ILE:HD11	2:A0:681:LEU:HB3	1.87	0.57
2:A9:678:GLY:HA2	2:A9:712:ASN:HA	1.87	0.57
2:As:247:LEU:HD21	2:As:460:ARG:HB2	1.86	0.57
2:Ax:247:LEU:HD21	2:Ax:460:ARG:HB2	1.86	0.57
2:Az:678:GLY:HA2	2:Az:712:ASN:HA	1.86	0.57
2:BB:314:ASP:OD1	2:BB:315:ALA:N	2.37	0.57
2:BB:322:ILE:HA	2:BB:454:TYR:HA	1.87	0.57
8:a:107:GLN:HA	8:a:110:ASP:OD2	2.05	0.57
2:A0:396:ALA:HB1	2:A0:422:LEU:HD11	1.86	0.56
2:A0:660:ILE:HB	2:A0:720:ILE:HB	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:687:VAL:HG22	2:A0:704:VAL:HG22	1.86	0.56
2:A3:737:VAL:HG22	2:A4:735:LEU:HB2	1.87	0.56
2:A5:685:GLU:HG2	2:A5:706:PRO:HA	1.87	0.56
2:A6:624:ASP:HB3	2:A6:656:LEU:O	2.05	0.56
2:A8:678:GLY:HA2	2:A8:712:ASN:HA	1.86	0.56
2:Ar:693:THR:HG23	2:Ar:698:VAL:HG22	1.86	0.56
2:As:338:PRO:HD3	2:As:378:VAL:HG22	1.85	0.56
2:Au:424:ARG:NH1	2:Av:543:ASP:OD1	2.24	0.56
2:Av:160:ASP:OD1	2:Ax:312:ALA:HA	2.05	0.56
2:Ax:495:LEU:HD23	2:Ax:700:LYS:HG3	1.87	0.56
2:Ax:678:GLY:HA2	2:Ax:712:ASN:HA	1.87	0.56
2:BA:537:ARG:CZ	2:BF:426:VAL:HG13	2.35	0.56
2:BB:565:LEU:HD12	2:BB:725:LEU:HA	1.87	0.56
2:BF:364:PHE:HB3	2:BF:402:VAL:HB	1.85	0.56
2:BG:338:PRO:HD3	2:BG:378:VAL:HG22	1.86	0.56
2:A1:361:THR:H	2:A3:165:ARG:HD2	1.71	0.56
2:A1:517:ASN:HD22	2:Az:237:ASN:HA	1.69	0.56
2:A2:365:ASP:CG	2:A2:401:GLU:HG2	2.30	0.56
2:A3:180:ARG:HA	2:A3:512:ASN:HB3	1.86	0.56
2:A4:307:SER:HB3	2:Az:158:SER:CB	2.35	0.56
2:A6:395:ALA:HB3	2:A7:538:PHE:HZ	1.70	0.56
2:A7:295:ILE:HG12	2:BG:220:GLY:HA3	1.87	0.56
2:A8:349:PHE:HB3	2:A8:360:MET:HB3	1.87	0.56
2:Ay:190:ASN:ND2	2:Ay:668:ILE:O	2.38	0.56
2:Ay:570:GLN:NE2	2:Az:572:THR:O	2.38	0.56
2:BA:373:GLU:HB2	2:BA:390:ILE:HG23	1.87	0.56
2:BA:637:PHE:CE1	2:BB:632:GLN:HB2	2.40	0.56
2:BC:310:THR:O	2:BC:464:ASN:ND2	2.34	0.56
2:BC:471:HIS:ND1	2:BD:492:PRO:HD3	2.19	0.56
7:R:51:LYS:O	7:R:55:GLN:HG3	2.05	0.56
1:B:73:ARG:NH2	1:B:77:ASP:O	2.31	0.56
2:A0:167:MET:HG2	2:A9:200:GLY:N	2.18	0.56
2:A0:733:ILE:O	2:A9:570:GLN:NE2	2.36	0.56
2:A1:351:LYS:N	2:A3:165:ARG:O	2.39	0.56
2:A3:237:ASN:HA	2:A4:517:ASN:HD22	1.69	0.56
2:A4:309:ASN:HA	2:Az:159:TYR:HB3	1.88	0.56
2:A8:693:THR:HG23	2:A8:698:VAL:HG22	1.87	0.56
2:Ar:333:LYS:HD3	2:Ar:384:GLU:HB3	1.87	0.56
2:At:190:ASN:N	2:At:190:ASN:OD1	2.36	0.56
2:Av:494:PRO:O	2:Av:700:LYS:HE2	2.05	0.56
2:Ay:666:ARG:NH1	2:Ay:668:ILE:HD11	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:164:LEU:CD2	2:BF:408:VAL:HG21	2.35	0.56
2:BD:292:MET:HE2	2:BD:458:ILE:HD12	1.86	0.56
2:BH:208:PRO:HA	2:BH:474:PHE:HA	1.86	0.56
2:BH:239:VAL:O	2:BH:470:LYS:NZ	2.37	0.56
8:a:244:TYR:O	8:a:248:LYS:HG3	2.04	0.56
2:A0:301:ILE:HD11	2:A0:460:ARG:HH22	1.69	0.56
2:A0:693:THR:HG23	2:A0:698:VAL:HG22	1.88	0.56
2:A1:313:LEU:HA	2:A1:461:ASN:H	1.70	0.56
2:A1:360:MET:SD	2:A3:164:LEU:HB2	2.46	0.56
2:A2:219:ASP:O	2:Aw:257:ASN:ND2	2.27	0.56
2:A4:471:HIS:ND1	2:Ay:492:PRO:HD3	2.20	0.56
2:A5:694:ARG:HB2	2:A5:697:GLN:HE21	1.70	0.56
2:A6:408:VAL:HG12	2:A8:160:ASP:HB3	1.86	0.56
2:A8:377:ASP:OD1	2:A8:381:ALA:N	2.39	0.56
2:A9:184:MET:HE3	2:A9:519:MET:HE1	1.87	0.56
2:Ar:678:GLY:HA2	2:Ar:712:ASN:HA	1.87	0.56
2:Ar:685:GLU:HG2	2:Ar:706:PRO:HA	1.87	0.56
2:As:395:ALA:HB3	2:Ax:538:PHE:HZ	1.70	0.56
2:Ax:311:ASP:OD2	2:Ax:466:ARG:NH1	2.39	0.56
2:Ax:693:THR:HG23	2:Ax:698:VAL:HG22	1.87	0.56
2:BA:161:GLN:NE2	2:BE:411:ALA:HB1	2.17	0.56
2:BC:207:ARG:NH1	2:BC:552:TYR:HB3	2.20	0.56
2:BD:485:LEU:HG	2:BD:707:ARG:HG2	1.87	0.56
2:BG:678:GLY:HA2	2:BG:712:ASN:HA	1.85	0.56
2:A1:247:LEU:HD11	2:A1:313:LEU:CD2	2.33	0.56
2:A4:313:LEU:HB2	2:Az:162:LYS:HB3	1.88	0.56
2:A4:570:GLN:HB2	2:Ay:732:ASN:CG	2.30	0.56
2:A7:206:ARG:HB3	2:A8:173:VAL:HA	1.86	0.56
2:A9:666:ARG:NH1	2:A9:668:ILE:HD11	2.21	0.56
2:Ar:377:ASP:OD1	2:Ar:381:ALA:N	2.37	0.56
2:Au:693:THR:HG23	2:Au:698:VAL:HG22	1.86	0.56
2:Av:535:THR:HG21	2:Av:556:PRO:HB2	1.88	0.56
2:Ay:427:ASP:OD1	2:Ay:428:GLN:N	2.36	0.56
2:Ay:666:ARG:HE	2:Ay:675:LEU:HD12	1.70	0.56
2:Az:338:PRO:HD3	2:Az:378:VAL:HG22	1.87	0.56
2:BA:489:PHE:CB	2:BF:470:LYS:HG3	2.36	0.56
2:BA:503:ASP:OD1	2:BF:472:LEU:N	2.24	0.56
2:BD:209:LEU:HD13	2:BD:227:ARG:HD3	1.86	0.56
2:BD:738:GLN:HB3	2:BE:734:LYS:HB3	1.88	0.56
2:BE:317:ILE:HG23	2:BE:458:ILE:HG12	1.87	0.56
2:BG:486:LEU:HB2	2:BG:706:PRO:HG2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:2:ASN:OD1	5:O:4:SER:OG	2.18	0.56
2:A1:476:MET:O	2:A9:356:ASP:HA	2.05	0.56
2:A3:184:MET:HE3	2:A3:519:MET:HE1	1.87	0.56
2:A3:740:ASN:HB3	2:Ay:734:LYS:NZ	2.20	0.56
2:A4:190:ASN:ND2	2:A4:668:ILE:O	2.39	0.56
2:A5:165:ARG:CZ	2:A9:350:GLN:H	2.18	0.56
2:A9:485:LEU:HG	2:A9:707:ARG:HG2	1.87	0.56
2:Ar:427:ASP:OD1	2:Ar:428:GLN:N	2.38	0.56
2:As:470:LYS:HD2	2:Ax:489:PHE:HE2	1.70	0.56
2:Ay:292:MET:HE2	2:Ay:458:ILE:HD12	1.87	0.56
2:Ay:472:LEU:HD13	2:Az:506:VAL:HG12	1.87	0.56
2:BA:667:GLY:O	6:Q:22:ARG:HD3	2.05	0.56
2:BD:206:ARG:HB3	2:BE:173:VAL:HG13	1.86	0.56
2:BE:580:GLU:HA	2:BF:574:THR:HB	1.87	0.56
2:BF:427:ASP:OD1	2:BF:428:GLN:N	2.38	0.56
2:A0:469:GLY:HA3	2:A5:489:PHE:HA	1.87	0.56
2:A3:657:ARG:O	2:A3:659:LYS:N	2.39	0.56
2:A3:666:ARG:HE	2:A3:675:LEU:HD12	1.71	0.56
2:A4:428:GLN:HA	2:Ay:537:ARG:NH2	2.21	0.56
2:A7:338:PRO:HD3	2:A7:378:VAL:HG22	1.88	0.56
2:A8:394:SER:HA	2:A9:537:ARG:HH21	1.69	0.56
2:At:212:ASN:OD1	2:At:213:HIS:N	2.32	0.56
2:At:573:THR:H	2:At:577:ARG:NH1	2.00	0.56
2:Av:407:ASN:OD1	2:Av:408:VAL:N	2.39	0.56
2:BH:338:PRO:HD3	2:BH:378:VAL:HG22	1.87	0.56
3:Ck:335:GLU:OE2	3:Ck:339:ARG:NH2	2.39	0.56
4:G:118:PRO:HB3	4:G:203:TYR:HE1	1.71	0.56
2:A2:678:GLY:HA2	2:A2:712:ASN:HA	1.86	0.56
2:A3:270:ARG:HE	2:A3:281:THR:HG23	1.71	0.56
2:A3:494:PRO:O	2:A3:700:LYS:HE2	2.06	0.56
2:A6:689:VAL:HG22	2:A6:702:THR:HG23	1.86	0.56
2:Ar:559:GLU:OE1	2:Ar:595:ARG:NH1	2.35	0.56
2:As:201:TYR:OH	2:Ax:168:MET:SD	2.61	0.56
2:As:470:LYS:HB2	2:Ax:489:PHE:HD2	1.71	0.56
2:At:539:ARG:HD3	2:At:556:PRO:O	2.05	0.56
2:Aw:485:LEU:HG	2:Aw:707:ARG:HG2	1.88	0.56
2:Ax:488:PRO:HB3	2:Ax:705:GLN:HB2	1.87	0.56
2:BA:492:PRO:HG3	2:BF:214:LEU:O	2.05	0.56
2:BE:208:PRO:HA	2:BE:474:PHE:HA	1.87	0.56
2:BH:190:ASN:ND2	2:BH:668:ILE:O	2.39	0.56
2:A0:697:GLN:HB3	2:Ar:466:ARG:HH21	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A7:666:ARG:NH1	2:A7:668:ILE:HD11	2.20	0.56
2:At:409:GLU:OE2	2:BA:227:ARG:NH2	2.36	0.56
2:Au:543:ASP:CG	2:Ax:424:ARG:HH12	2.13	0.56
2:Ay:539:ARG:O	2:Ay:555:ARG:NH1	2.39	0.56
2:BA:491:ILE:O	2:BF:471:HIS:CD2	2.59	0.56
2:BB:427:ASP:OD1	2:BB:428:GLN:N	2.37	0.56
2:BC:328:SER:HA	2:BC:446:ASP:O	2.06	0.56
2:A0:215:ARG:HG3	2:Az:306:TYR:HE2	1.70	0.56
2:Au:244:VAL:HG22	2:Av:487:ALA:HB1	1.87	0.56
2:Ay:686:LEU:O	2:Ay:704:VAL:HA	2.05	0.56
2:BA:247:LEU:HD21	2:BA:460:ARG:HB2	1.89	0.56
2:BC:471:HIS:HD1	2:BD:491:ILE:HA	1.70	0.56
2:BD:428:GLN:HA	2:BE:537:ARG:HH22	1.70	0.56
2:BD:549:PHE:CZ	2:BE:170:TYR:HE2	2.24	0.56
2:BD:560:GLU:HG3	2:BD:719:LEU:HB3	1.87	0.56
2:BD:693:THR:HA	2:BD:698:VAL:HA	1.86	0.56
2:BG:535:THR:O	2:BG:539:ARG:HB2	2.05	0.56
2:BG:695:ASN:N	2:BG:695:ASN:OD1	2.39	0.56
2:BH:322:ILE:HA	2:BH:454:TYR:HA	1.87	0.56
2:A0:625:ASN:ND2	2:A9:603:GLN:OE1	2.38	0.55
2:A0:694:ARG:HB2	2:A0:697:GLN:HG3	1.88	0.55
2:A3:491:ILE:HD12	2:A3:503:ASP:HB3	1.87	0.55
2:A5:209:LEU:N	2:A5:473:ASP:O	2.36	0.55
2:A8:428:GLN:HA	2:A9:537:ARG:NH2	2.21	0.55
2:A8:483:ILE:HD11	2:A8:681:LEU:HB3	1.87	0.55
2:A8:657:ARG:O	2:A8:659:LYS:N	2.39	0.55
2:Ax:396:ALA:HB1	2:Ax:422:LEU:HD11	1.87	0.55
2:Az:689:VAL:HG22	2:Az:702:THR:HG23	1.88	0.55
2:BB:624:ASP:HB3	2:BB:656:LEU:O	2.06	0.55
2:BC:206:ARG:O	2:BD:173:VAL:HG13	2.06	0.55
2:A2:558:PHE:HD1	2:A2:717:LEU:HB3	1.71	0.55
2:A3:190:ASN:ND2	2:A3:668:ILE:O	2.40	0.55
2:A4:241:SER:O	2:A4:470:LYS:HE3	2.05	0.55
2:Av:190:ASN:ND2	2:Av:668:ILE:O	2.39	0.55
2:Ax:365:ASP:CG	2:Ax:401:GLU:HG2	2.32	0.55
2:BA:172:VAL:HG22	2:BF:549:PHE:CA	2.35	0.55
2:BA:365:ASP:CG	2:BA:401:GLU:HG2	2.31	0.55
2:BE:479:GLU:OE1	2:BE:481:TYR:OH	2.23	0.55
2:A4:245:THR:O	2:A4:460:ARG:N	2.25	0.55
2:A5:204:SER:O	2:A6:172:VAL:N	2.35	0.55
2:A7:377:ASP:OD1	2:A7:381:ALA:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:As:409:GLU:OE1	2:BH:227:ARG:NH2	2.39	0.55
2:As:470:LYS:HB2	2:Ax:489:PHE:CD2	2.42	0.55
2:Au:535:THR:O	2:Au:539:ARG:HB2	2.06	0.55
2:Ay:180:ARG:HG3	2:Ay:515:PHE:HD2	1.71	0.55
2:Ay:333:LYS:HD3	2:Ay:384:GLU:HB3	1.88	0.55
2:BC:298:ASP:OD2	2:BC:300:SER:OG	2.21	0.55
2:BC:309:ASN:HA	2:BE:159:TYR:HB2	1.87	0.55
2:BD:298:ASP:OD2	2:BD:300:SER:OG	2.19	0.55
2:BD:365:ASP:CG	2:BD:401:GLU:HG2	2.31	0.55
2:BE:407:ASN:OD1	2:BE:408:VAL:N	2.39	0.55
8:a:258:ASN:O	8:a:262:GLU:HG2	2.06	0.55
2:A0:468:ARG:NH1	2:A5:697:GLN:HE22	1.96	0.55
2:A2:472:LEU:HD13	2:A3:506:VAL:HG12	1.89	0.55
2:A3:695:ASN:ND2	2:Aw:306:TYR:HE1	2.05	0.55
2:Av:242:ASN:ND2	2:Aw:488:PRO:O	2.38	0.55
2:Ay:266:ILE:HG22	2:Ay:267:VAL:HG23	1.89	0.55
2:BA:489:PHE:O	2:BF:470:LYS:N	2.39	0.55
2:BB:362:LEU:HB2	2:BD:164:LEU:HD13	1.87	0.55
2:BC:489:PHE:O	2:BC:703:MET:HA	2.07	0.55
2:BE:349:PHE:CD1	2:BE:362:LEU:HB2	2.41	0.55
2:BE:737:VAL:CG2	2:BF:737:VAL:HB	2.36	0.55
2:BH:558:PHE:HD1	2:BH:717:LEU:HB3	1.71	0.55
2:A0:161:GLN:HA	2:A8:358:ARG:HH22	1.70	0.55
2:A1:338:PRO:HD3	2:A1:378:VAL:HG22	1.88	0.55
2:A2:560:GLU:HG3	2:A2:719:LEU:HB3	1.87	0.55
2:A5:184:MET:HE3	2:A5:519:MET:HE1	1.89	0.55
2:A7:486:LEU:HB2	2:A7:706:PRO:HG2	1.88	0.55
2:A9:319:LEU:HD12	2:A9:455:GLU:O	2.07	0.55
2:Av:666:ARG:NH1	2:Av:668:ILE:HD11	2.21	0.55
2:Ay:184:MET:HE3	2:Ay:519:MET:HE1	1.87	0.55
2:Ay:306:TYR:H	2:BF:697:GLN:HG2	1.70	0.55
2:BA:486:LEU:O	2:BA:705:GLN:HG3	2.06	0.55
2:BB:348:GLY:H	2:BD:167:MET:CE	2.17	0.55
2:BB:373:GLU:OE1	2:BB:393:LYS:HG2	2.06	0.55
2:BC:468:ARG:NH2	2:BD:694:ARG:HG3	2.22	0.55
4:G:209:ARG:HA	4:G:212:ALA:HB3	1.88	0.55
2:A0:666:ARG:NH1	2:A0:668:ILE:HD11	2.21	0.55
2:A1:642:VAL:H	2:A2:629:GLN:NE2	2.03	0.55
2:A2:736:PRO:HG3	2:A3:732:ASN:HD22	1.71	0.55
2:A3:694:ARG:HB2	2:A3:697:GLN:CG	2.37	0.55
2:A4:359:LYS:C	2:A4:360:MET:HG3	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A5:165:ARG:HG3	2:A9:360:MET:CG	2.34	0.55
2:A6:530:LEU:HD22	2:A6:558:PHE:HB2	1.89	0.55
2:Av:237:ASN:HA	2:Aw:517:ASN:HD22	1.71	0.55
2:Ay:306:TYR:CE2	2:BE:215:ARG:HB2	2.42	0.55
2:BB:162:LYS:NZ	2:BF:461:ASN:HB3	2.22	0.55
2:BD:680:PHE:CZ	2:BD:708:CYS:HB2	2.42	0.55
2:BE:639:THR:HA	2:BF:631:LEU:O	2.06	0.55
2:A0:225:TRP:CH2	2:Az:309:ASN:HB2	2.41	0.55
2:A1:694:ARG:HB2	2:A1:697:GLN:HG3	1.89	0.55
2:A5:298:ASP:OD2	2:A5:300:SER:OG	2.19	0.55
2:A5:559:GLU:OE1	2:A5:595:ARG:NH1	2.38	0.55
2:A6:695:ASN:OD1	2:A6:695:ASN:N	2.39	0.55
2:BB:310:THR:O	2:BB:464:ASN:ND2	2.38	0.55
2:BB:350:GLN:H	2:BD:164:LEU:N	2.05	0.55
2:BC:190:ASN:O	2:BC:680:PHE:N	2.32	0.55
2:BC:206:ARG:O	2:BD:173:VAL:HG22	2.05	0.55
2:A0:190:ASN:O	2:A0:680:PHE:N	2.33	0.55
2:A0:472:LEU:HD13	2:A5:506:VAL:HG12	1.89	0.55
2:A0:489:PHE:HE2	2:A9:470:LYS:HD2	1.72	0.55
2:A1:396:ALA:HB1	2:A1:422:LEU:HD11	1.89	0.55
2:A4:485:LEU:HG	2:A4:707:ARG:HG2	1.88	0.55
2:A5:165:ARG:HG2	2:A9:349:PHE:HB3	1.87	0.55
2:A5:476:MET:O	2:BC:357:PHE:HD1	1.88	0.55
2:A7:468:ARG:HB2	2:A8:490:SER:OG	2.07	0.55
2:A7:660:ILE:HB	2:A7:720:ILE:HB	1.88	0.55
2:Ar:485:LEU:HB2	2:Aw:314:ASP:OD2	2.06	0.55
2:Ax:666:ARG:HE	2:Ax:675:LEU:HD12	1.71	0.55
2:BA:336:TYR:O	2:BA:378:VAL:HG23	2.07	0.55
2:BB:377:ASP:OD1	2:BB:381:ALA:N	2.39	0.55
2:BD:230:LEU:HD23	2:BE:176:VAL:HB	1.89	0.55
2:BD:266:ILE:HG22	2:BD:267:VAL:HG23	1.89	0.55
2:BE:313:LEU:HB2	2:BE:408:VAL:HG13	1.89	0.55
2:BE:314:ASP:OD1	2:BE:315:ALA:N	2.34	0.55
2:BE:561:ILE:HD13	2:BF:726:ARG:NH2	2.21	0.55
2:BF:228:ARG:HH11	2:BF:239:VAL:HA	1.72	0.55
2:BG:506:VAL:HG12	2:BH:472:LEU:HD13	1.88	0.55
8:a:59:ARG:HH21	8:a:202:LYS:HE3	1.70	0.55
2:A1:349:PHE:HB3	2:A3:165:ARG:CB	2.36	0.55
2:A3:358:ARG:HH21	2:Ay:161:GLN:C	2.15	0.55
2:A4:313:LEU:HB2	2:Az:162:LYS:HD2	1.89	0.55
2:A7:190:ASN:ND2	2:A7:668:ILE:O	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A7:241:SER:O	2:A7:470:LYS:HE3	2.07	0.55
2:A7:351:LYS:HD2	2:A7:359:LYS:O	2.06	0.55
2:A7:678:GLY:HA2	2:A7:712:ASN:HA	1.89	0.55
2:At:345:ILE:HG13	2:At:346:THR:HG23	1.89	0.55
2:Au:560:GLU:HG3	2:Au:719:LEU:HB3	1.89	0.55
2:Aw:678:GLY:HA2	2:Aw:712:ASN:HA	1.89	0.55
2:Ax:695:ASN:OD1	2:Ax:695:ASN:N	2.39	0.55
2:Ay:365:ASP:CG	2:Ay:401:GLU:HG2	2.32	0.55
2:Az:190:ASN:ND2	2:Az:668:ILE:O	2.40	0.55
2:BA:158:SER:OG	2:BE:252:ARG:NH2	2.38	0.55
2:BA:561:ILE:O	2:BA:720:ILE:HA	2.06	0.55
2:BA:699:SER:O	2:BF:468:ARG:NH1	2.39	0.55
2:BD:558:PHE:CD1	2:BD:717:LEU:HB3	2.41	0.55
2:BF:473:ASP:OD1	2:BF:474:PHE:N	2.37	0.55
2:BG:272:ILE:O	2:BG:279:TYR:N	2.26	0.55
2:BG:558:PHE:HD1	2:BG:717:LEU:HB3	1.71	0.55
3:Ck:741:LEU:HD12	3:Ck:857:LEU:HD11	1.88	0.55
2:A3:740:ASN:HB3	2:Ay:734:LYS:HZ1	1.72	0.55
2:A4:377:ASP:OD1	2:A4:381:ALA:N	2.39	0.55
2:A7:247:LEU:HD21	2:A7:460:ARG:HB2	1.89	0.55
2:As:184:MET:HE3	2:As:519:MET:HE1	1.88	0.55
2:Av:165:ARG:HB2	2:Ax:351:LYS:H	1.71	0.55
2:BD:199:ILE:HD12	2:BE:166:ASP:CG	2.32	0.55
2:BD:203:VAL:O	2:BD:478:GLN:HG2	2.07	0.55
2:BD:561:ILE:O	2:BD:720:ILE:HA	2.07	0.55
2:BE:492:PRO:HA	2:BE:700:LYS:O	2.07	0.55
2:BG:190:ASN:ND2	2:BG:668:ILE:O	2.40	0.55
2:BG:559:GLU:OE1	2:BG:595:ARG:NH1	2.38	0.55
2:A2:485:LEU:HG	2:A2:707:ARG:CG	2.37	0.54
2:A5:319:LEU:HA	2:A5:456:LEU:HD23	1.90	0.54
2:A6:314:ASP:OD1	2:A6:315:ALA:N	2.34	0.54
2:A8:691:GLN:HA	2:A8:700:LYS:HA	1.89	0.54
2:A9:310:THR:C	2:A9:464:ASN:HD21	2.15	0.54
2:At:497:TRP:NE1	2:At:499:GLU:O	2.40	0.54
2:Av:530:LEU:HD22	2:Av:558:PHE:HB2	1.89	0.54
2:Aw:272:ILE:O	2:Aw:279:TYR:N	2.27	0.54
2:BA:491:ILE:HD13	2:BF:211:PHE:CZ	2.41	0.54
2:BB:373:GLU:HA	2:BB:390:ILE:HG12	1.88	0.54
2:BD:689:VAL:HG22	2:BD:702:THR:HG23	1.89	0.54
2:BE:317:ILE:HG23	2:BE:458:ILE:CD1	2.36	0.54
2:BG:666:ARG:NH1	2:BG:668:ILE:HD11	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A5:205:PHE:O	2:A5:476:MET:HA	2.07	0.54
2:A5:237:ASN:HA	2:A6:517:ASN:HD22	1.72	0.54
2:Ar:461:ASN:ND2	2:Ax:160:ASP:OD2	2.40	0.54
2:Au:657:ARG:O	2:Au:659:LYS:N	2.40	0.54
2:Av:338:PRO:HD3	2:Av:378:VAL:HG22	1.88	0.54
2:BA:491:ILE:HG21	2:BF:211:PHE:CZ	2.42	0.54
2:BD:319:LEU:HA	2:BD:456:LEU:HD23	1.90	0.54
2:BH:624:ASP:HB3	2:BH:656:LEU:O	2.07	0.54
5:P:88:CYS:O	5:P:92:ARG:HG3	2.08	0.54
8:a:184:GLN:HA	8:a:187:LYS:HD2	1.89	0.54
2:A0:377:ASP:OD1	2:A0:381:ALA:N	2.41	0.54
2:A1:309:ASN:CB	2:A3:159:TYR:HB2	2.37	0.54
2:A1:565:LEU:HD12	2:A1:725:LEU:HA	1.89	0.54
2:A5:165:ARG:NE	2:A9:350:GLN:O	2.41	0.54
2:A6:338:PRO:HD3	2:A6:378:VAL:HG22	1.88	0.54
2:As:349:PHE:HB3	2:As:360:MET:HB3	1.89	0.54
2:At:473:ASP:OD1	2:At:474:PHE:N	2.41	0.54
2:Aw:314:ASP:OD1	2:Aw:315:ALA:N	2.37	0.54
2:Ax:377:ASP:OD1	2:Ax:381:ALA:N	2.41	0.54
2:Az:239:VAL:O	2:Az:470:LYS:NZ	2.40	0.54
2:BB:317:ILE:HD11	2:BD:162:LYS:CB	2.37	0.54
2:BF:179:SER:O	2:BF:512:ASN:HB3	2.06	0.54
2:A4:313:LEU:CD1	2:Az:162:LYS:HD2	2.35	0.54
2:A4:666:ARG:NH1	2:A4:668:ILE:HD11	2.22	0.54
2:A5:272:ILE:O	2:A5:279:TYR:N	2.29	0.54
2:A8:365:ASP:CG	2:A8:401:GLU:HG2	2.33	0.54
2:As:297:GLU:OE2	2:As:307:SER:OG	2.16	0.54
2:At:725:LEU:HD23	2:At:727:LYS:HE2	1.87	0.54
2:Az:559:GLU:CD	2:Az:595:ARG:HH12	2.15	0.54
2:Az:666:ARG:NH1	2:Az:668:ILE:HD11	2.23	0.54
2:BD:489:PHE:O	2:BD:703:MET:HA	2.07	0.54
2:BH:377:ASP:OD1	2:BH:381:ALA:N	2.41	0.54
2:A1:312:ALA:HA	2:A3:160:ASP:OD1	2.06	0.54
2:A1:464:ASN:OD1	2:A1:464:ASN:N	2.40	0.54
2:A2:239:VAL:O	2:A2:470:LYS:NZ	2.39	0.54
2:A3:559:GLU:CD	2:A3:595:ARG:HH12	2.15	0.54
2:At:591:GLU:CD	2:At:595:ARG:HH21	2.15	0.54
2:Ay:660:ILE:HB	2:Ay:720:ILE:HB	1.89	0.54
2:BD:489:PHE:HB2	2:BD:507:LEU:HD22	1.89	0.54
2:BD:559:GLU:O	2:BD:718:GLY:HA2	2.08	0.54
2:BE:398:LEU:HD23	2:BE:422:LEU:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BE:569:VAL:HG21	2:BE:581:VAL:HG22	1.88	0.54
3:Ck:778:LEU:H	3:Ck:790:HIS:CE1	2.26	0.54
2:A1:350:GLN:N	2:A3:165:ARG:HG2	2.23	0.54
2:A4:338:PRO:HD3	2:A4:378:VAL:HG22	1.89	0.54
2:A5:470:LYS:HD2	2:A6:489:PHE:HE2	1.72	0.54
2:A5:483:ILE:HD11	2:A5:681:LEU:HB3	1.90	0.54
2:A6:292:MET:HE2	2:A6:458:ILE:HD12	1.88	0.54
2:A7:465:ARG:HH12	2:A8:689:VAL:C	2.16	0.54
2:Ar:161:GLN:C	2:Av:358:ARG:HH21	2.15	0.54
2:Ar:535:THR:O	2:Ar:539:ARG:HB2	2.07	0.54
2:At:466:ARG:NH2	2:BB:695:ASN:O	2.38	0.54
2:Au:190:ASN:ND2	2:Au:668:ILE:O	2.41	0.54
2:Av:603:GLN:OE1	2:Aw:625:ASN:ND2	2.41	0.54
2:BA:161:GLN:HG3	2:BE:292:MET:HB2	1.87	0.54
2:BA:685:GLU:HG2	2:BA:706:PRO:HA	1.90	0.54
2:BD:539:ARG:O	2:BD:555:ARG:NH1	2.40	0.54
2:BE:489:PHE:O	2:BE:703:MET:HA	2.07	0.54
2:BE:691:GLN:HA	2:BE:700:LYS:HA	1.89	0.54
2:A0:697:GLN:OE1	2:Ar:310:THR:OG1	2.25	0.54
2:A1:642:VAL:HG23	2:A2:629:GLN:HE22	1.72	0.54
2:A7:309:ASN:HB3	2:BG:214:LEU:HB3	1.89	0.54
2:Au:184:MET:HE3	2:Au:519:MET:HE1	1.90	0.54
2:Au:247:LEU:HD12	2:Au:458:ILE:HG22	1.89	0.54
2:Aw:209:LEU:N	2:Aw:473:ASP:O	2.35	0.54
2:Ay:311:ASP:CG	2:Ay:466:ARG:HH22	2.16	0.54
2:BB:639:THR:HA	2:BC:631:LEU:O	2.07	0.54
2:BC:317:ILE:CG1	2:BE:162:LYS:HZ2	2.19	0.54
2:BC:691:GLN:HB2	2:BC:700:LYS:HG2	1.90	0.54
2:BE:319:LEU:HD12	2:BE:320:THR:H	1.72	0.54
2:BG:687:VAL:HG22	2:BG:704:VAL:HG22	1.89	0.54
2:BH:687:VAL:HG22	2:BH:704:VAL:HG22	1.89	0.54
6:Q:48:ALA:HA	6:Q:92:VAL:HG13	1.89	0.54
2:A0:159:TYR:H	2:Ax:494:PRO:HD3	1.73	0.54
2:A2:162:LYS:HE3	2:Az:461:ASN:ND2	2.23	0.54
2:A3:336:TYR:O	2:A3:378:VAL:HG23	2.08	0.54
2:A4:360:MET:SD	2:Az:165:ARG:N	2.81	0.54
2:At:228:ARG:HD2	2:At:229:PRO:HD2	1.90	0.54
2:At:464:ASN:O	2:BB:698:VAL:N	2.29	0.54
2:Au:239:VAL:O	2:Au:470:LYS:NZ	2.40	0.54
2:Ax:530:LEU:HD22	2:Ax:558:PHE:HB2	1.89	0.54
2:Ay:485:LEU:HG	2:Ay:707:ARG:CG	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BC:241:SER:O	2:BC:470:LYS:HE3	2.07	0.54
2:BC:410:LYS:HA	2:BE:159:TYR:CZ	2.43	0.54
2:BE:735:LEU:HD22	2:BF:735:LEU:HD12	1.90	0.54
2:BG:537:ARG:HH22	2:BH:428:GLN:HA	1.72	0.54
2:A8:266:ILE:HG22	2:A8:267:VAL:HG23	1.90	0.54
2:Ar:398:LEU:HD23	2:Ar:422:LEU:HA	1.90	0.54
2:Au:427:ASP:OD1	2:Au:428:GLN:N	2.36	0.54
2:Av:491:ILE:HD12	2:Av:503:ASP:HB3	1.90	0.54
2:BA:161:GLN:CD	2:BE:293:ILE:HG13	2.32	0.54
2:BC:250:ILE:H	2:BC:295:ILE:CG2	2.21	0.54
2:BD:493:ARG:HD2	2:BD:497:TRP:CG	2.43	0.54
2:BE:559:GLU:CD	2:BE:595:ARG:HH12	2.12	0.54
2:BE:565:LEU:HB2	2:BE:724:ASN:O	2.07	0.54
2:BG:365:ASP:CG	2:BG:401:GLU:HG2	2.33	0.54
3:Ck:445:LEU:HA	3:Ck:451:TRP:HE3	1.73	0.54
2:A0:398:LEU:HD23	2:A0:422:LEU:HA	1.90	0.54
2:A0:694:ARG:NE	2:A0:701:GLU:OE2	2.36	0.54
2:A2:202:ASP:CB	2:A2:480:ARG:HE	2.21	0.54
2:A2:666:ARG:NH1	2:A2:668:ILE:HD11	2.23	0.54
2:A3:200:GLY:N	2:A4:167:MET:HG2	2.22	0.54
2:A4:624:ASP:HB3	2:A4:656:LEU:O	2.08	0.54
2:Ar:266:ILE:HG22	2:Ar:267:VAL:HG23	1.90	0.54
2:Av:200:GLY:N	2:Aw:167:MET:HG2	2.18	0.54
2:Ax:427:ASP:OD1	2:Ax:428:GLN:N	2.39	0.54
2:BB:314:ASP:OD1	2:BC:485:LEU:HD13	2.08	0.54
2:BB:570:GLN:HB2	2:BC:732:ASN:CG	2.33	0.54
2:BC:266:ILE:HG22	2:BC:267:VAL:HG23	1.89	0.54
2:BF:228:ARG:NH1	2:BF:239:VAL:HA	2.23	0.54
2:A3:373:GLU:HB2	2:A3:390:ILE:HG23	1.89	0.53
2:A4:307:SER:CB	2:Az:158:SER:HB3	2.37	0.53
2:A5:494:PRO:O	2:A5:700:LYS:HE2	2.07	0.53
2:A5:657:ARG:O	2:A5:659:LYS:N	2.42	0.53
2:A8:338:PRO:HD3	2:A8:378:VAL:HG22	1.89	0.53
2:Ar:537:ARG:NH2	2:Aw:428:GLN:HA	2.22	0.53
2:As:657:ARG:O	2:As:659:LYS:N	2.41	0.53
2:Ax:312:ALA:CB	2:Ax:461:ASN:HB3	2.34	0.53
2:BB:363:ALA:HB3	2:BD:165:ARG:HG3	1.90	0.53
2:BD:205:PHE:H	2:BD:476:MET:CG	2.16	0.53
2:BE:317:ILE:HG23	2:BE:458:ILE:HD11	1.90	0.53
2:BF:565:LEU:HB2	2:BF:728:VAL:HG21	1.89	0.53
4:G:165:THR:HA	4:G:168:ARG:HD2	1.88	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:322:ILE:HA	2:A0:454:TYR:HA	1.90	0.53
2:A1:361:THR:O	2:A3:165:ARG:HD2	2.08	0.53
2:A1:666:ARG:NH1	2:A1:668:ILE:HD11	2.22	0.53
2:A2:624:ASP:HB3	2:A2:656:LEU:O	2.08	0.53
2:A3:666:ARG:NH1	2:A3:668:ILE:HD11	2.23	0.53
2:A7:427:ASP:OD1	2:A7:428:GLN:N	2.36	0.53
2:A9:535:THR:HG21	2:A9:556:PRO:HB2	1.90	0.53
2:Ar:244:VAL:HG22	2:As:487:ALA:HB1	1.89	0.53
2:As:272:ILE:O	2:As:279:TYR:N	2.24	0.53
2:At:724:ASN:OD1	2:At:727:LYS:NZ	2.38	0.53
2:Au:738:GLN:HB2	2:Av:734:LYS:HD3	1.90	0.53
2:Aw:427:ASP:OD1	2:Aw:428:GLN:N	2.38	0.53
2:Ay:358:ARG:HD2	2:Ay:408:VAL:HB	1.89	0.53
2:BA:168:MET:HG2	2:BF:480:ARG:HG3	1.90	0.53
2:BB:349:PHE:C	2:BD:166:ASP:H	2.16	0.53
2:BE:303:ALA:O	2:BF:695:ASN:HB3	2.08	0.53
5:O:55:ARG:NE	5:O:56:GLU:OE2	2.40	0.53
2:A0:307:SER:HB3	2:BD:216:ARG:HG3	1.89	0.53
2:A0:427:ASP:O	2:A5:537:ARG:NH2	2.40	0.53
2:A1:489:PHE:CD2	2:Az:470:LYS:HB2	2.44	0.53
2:A2:266:ILE:HG22	2:A2:267:VAL:HG23	1.90	0.53
2:A2:695:ASN:O	2:A9:305:GLY:HA3	2.08	0.53
2:A3:535:THR:O	2:A3:539:ARG:HB2	2.07	0.53
2:A3:561:ILE:O	2:A3:720:ILE:HA	2.08	0.53
2:A5:587:ASN:OD1	2:A6:578:ARG:NH2	2.32	0.53
2:A8:427:ASP:OD1	2:A8:428:GLN:N	2.38	0.53
2:Ar:319:LEU:HA	2:Ar:456:LEU:HD23	1.90	0.53
2:At:338:PRO:HD3	2:At:378:VAL:HG22	1.90	0.53
2:Au:666:ARG:NH1	2:Au:668:ILE:HD11	2.22	0.53
2:Aw:373:GLU:OE1	2:Aw:393:LYS:HG2	2.07	0.53
2:Ay:482:ALA:O	2:Ay:709:ARG:HD2	2.08	0.53
2:Az:427:ASP:OD1	2:Az:428:GLN:N	2.37	0.53
2:BE:327:LYS:HG2	2:BE:334:THR:HG23	1.90	0.53
2:BF:657:ARG:O	2:BF:659:LYS:N	2.42	0.53
2:A0:428:GLN:HA	2:A5:537:ARG:HH22	1.74	0.53
2:A1:314:ASP:CB	2:A1:459:ARG:HB2	2.38	0.53
2:A5:203:VAL:O	2:A5:478:GLN:HA	2.08	0.53
2:A7:657:ARG:O	2:A7:659:LYS:N	2.42	0.53
2:A8:270:ARG:HE	2:A8:281:THR:HG23	1.73	0.53
2:A8:322:ILE:HA	2:A8:454:TYR:HA	1.90	0.53
2:As:190:ASN:ND2	2:As:668:ILE:O	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ax:666:ARG:NH1	2:Ax:668:ILE:HD11	2.22	0.53
2:Ay:230:LEU:HD23	2:Az:176:VAL:HB	1.90	0.53
2:BA:173:VAL:HG11	2:BF:206:ARG:C	2.32	0.53
2:BA:488:PRO:HD2	2:BF:245:THR:HG23	1.91	0.53
2:BA:693:THR:HG23	2:BA:698:VAL:HG22	1.91	0.53
2:BA:736:PRO:O	2:BB:735:LEU:N	2.37	0.53
2:BB:737:VAL:HG22	2:BC:735:LEU:HB2	1.91	0.53
2:BE:200:GLY:N	2:BF:167:MET:HG2	2.23	0.53
2:BH:666:ARG:NH1	2:BH:668:ILE:HD11	2.23	0.53
2:A0:464:ASN:HD22	2:BE:697:GLN:HB3	1.73	0.53
2:A9:190:ASN:ND2	2:A9:668:ILE:O	2.41	0.53
2:A9:530:LEU:HD22	2:A9:558:PHE:HB2	1.91	0.53
2:Ar:547:GLU:HB2	2:Aw:343:GLY:O	2.08	0.53
2:As:642:VAL:H	2:Ax:629:GLN:NE2	2.06	0.53
2:At:396:ALA:HB1	2:At:422:LEU:HD11	1.91	0.53
2:Aw:301:ILE:HD11	2:Aw:460:ARG:HH22	1.72	0.53
2:Ay:349:PHE:HB3	2:Ay:360:MET:HB3	1.90	0.53
2:BB:162:LYS:HE3	2:BF:312:ALA:HB3	1.90	0.53
2:BC:349:PHE:CE2	2:BC:362:LEU:HB2	2.43	0.53
2:BC:350:GLN:C	2:BE:165:ARG:HD2	2.34	0.53
2:BE:209:LEU:HD13	2:BE:227:ARG:HB3	1.89	0.53
2:A0:307:SER:HB2	2:BD:216:ARG:HB2	1.90	0.53
2:A2:396:ALA:HB1	2:A2:422:LEU:HD11	1.89	0.53
2:A6:358:ARG:HE	2:A8:161:GLN:C	2.17	0.53
2:A8:393:LYS:O	2:A9:537:ARG:NH2	2.41	0.53
2:Ar:666:ARG:NH1	2:Ar:668:ILE:HD11	2.24	0.53
2:As:366:THR:OG1	2:Ax:545:GLN:OE1	2.17	0.53
2:At:401:GLU:OE1	2:At:403:TYR:OH	2.15	0.53
2:Au:631:LEU:O	2:Ax:639:THR:HA	2.08	0.53
2:Av:247:LEU:HD12	2:Av:458:ILE:HG22	1.91	0.53
2:Aw:241:SER:O	2:Aw:470:LYS:HE3	2.08	0.53
2:Az:486:LEU:HB2	2:Az:706:PRO:HG2	1.89	0.53
2:BA:370:PHE:HA	2:BA:396:ALA:O	2.08	0.53
2:BA:559:GLU:O	2:BA:718:GLY:HA2	2.09	0.53
2:BC:313:LEU:HA	2:BC:461:ASN:N	2.18	0.53
2:BC:473:ASP:OD1	2:BC:474:PHE:N	2.42	0.53
2:BC:657:ARG:O	2:BC:659:LYS:N	2.41	0.53
2:BF:266:ILE:HG22	2:BF:267:VAL:HG23	1.91	0.53
2:A0:241:SER:O	2:A0:470:LYS:HE3	2.09	0.53
2:A1:215:ARG:HG3	2:A9:306:TYR:CD2	2.44	0.53
2:A1:313:LEU:HG	2:A3:160:ASP:OD2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:678:GLY:HA2	2:A1:712:ASN:HA	1.90	0.53
2:A5:219:ASP:C	2:BC:257:ASN:HD21	2.11	0.53
2:A7:559:GLU:OE1	2:A7:595:ARG:NH1	2.39	0.53
2:A9:689:VAL:HG22	2:A9:702:THR:HG23	1.89	0.53
2:As:427:ASP:OD1	2:As:428:GLN:N	2.38	0.53
2:As:490:SER:HA	2:As:702:THR:O	2.08	0.53
2:Ay:304:ASN:N	2:BF:696:GLY:HA2	2.18	0.53
2:Ay:466:ARG:NH2	2:BF:697:GLN:HB2	2.23	0.53
2:Ay:657:ARG:O	2:Ay:659:LYS:N	2.42	0.53
2:Az:322:ILE:HA	2:Az:454:TYR:HA	1.89	0.53
2:BA:174:PHE:HD1	2:BF:553:LEU:HA	1.71	0.53
2:BA:427:ASP:OD1	2:BA:428:GLN:N	2.38	0.53
2:BC:497:TRP:NE1	2:BC:499:GLU:O	2.40	0.53
2:BD:687:VAL:HG22	2:BD:704:VAL:HG22	1.90	0.53
2:BE:297:GLU:HB3	2:BE:302:LEU:HD21	1.91	0.53
3:Ck:597:LEU:O	3:Ck:601:GLU:HG3	2.09	0.53
5:O:78:ASP:OD1	5:O:78:ASP:N	2.42	0.53
2:A2:694:ARG:HB2	2:A2:697:GLN:HG2	1.90	0.53
2:A7:266:ILE:HG22	2:A7:267:VAL:HG23	1.91	0.53
2:A8:396:ALA:HB1	2:A8:422:LEU:HD11	1.91	0.53
2:A9:210:VAL:N	2:A9:228:ARG:O	2.40	0.53
2:A9:657:ARG:O	2:A9:659:LYS:N	2.42	0.53
2:Ar:338:PRO:HD3	2:Ar:378:VAL:HG22	1.91	0.53
2:As:164:LEU:HD22	2:Aw:360:MET:CE	2.38	0.53
2:As:373:GLU:HB2	2:As:390:ILE:HG23	1.89	0.53
2:Ax:398:LEU:HD23	2:Ax:422:LEU:HA	1.91	0.53
2:BB:688:SER:O	2:BB:703:MET:N	2.30	0.53
2:BC:560:GLU:HG3	2:BC:719:LEU:HB3	1.91	0.53
2:BD:472:LEU:HD12	2:BE:491:ILE:HD11	1.91	0.53
2:BF:624:ASP:HB3	2:BF:656:LEU:O	2.08	0.53
3:Ck:768:GLU:HG3	3:Ck:771:ARG:NH2	2.24	0.53
3:Ck:780:PHE:HB2	3:Ck:787:THR:CG2	2.39	0.53
6:Q:68:HIS:NE2	6:Q:164:ILE:HG23	2.24	0.53
6:Q:185:ALA:HA	6:Q:190:PHE:HD2	1.74	0.53
2:A0:373:GLU:OE1	2:A0:393:LYS:HG2	2.09	0.53
2:A0:657:ARG:O	2:A0:659:LYS:N	2.42	0.53
2:A2:322:ILE:HA	2:A2:454:TYR:HA	1.91	0.53
2:A4:365:ASP:CG	2:A4:401:GLU:HG2	2.34	0.53
2:A4:488:PRO:HB3	2:A4:705:GLN:HB2	1.91	0.53
2:A5:165:ARG:NE	2:A9:350:GLN:N	2.48	0.53
2:A5:427:ASP:OD1	2:A5:428:GLN:N	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A6:351:LYS:NZ	2:A6:356:ASP:O	2.33	0.53
2:Az:535:THR:O	2:Az:539:ARG:HB2	2.09	0.53
2:Az:657:ARG:O	2:Az:659:LYS:N	2.41	0.53
2:BA:689:VAL:HG22	2:BA:702:THR:HG23	1.91	0.53
2:BB:178:ALA:N	2:BB:509:GLN:OE1	2.35	0.53
2:BB:350:GLN:CG	2:BD:165:ARG:HB3	2.37	0.53
2:BB:407:ASN:HB3	2:BD:161:GLN:CD	2.34	0.53
2:BF:679:MET:HG3	2:BF:711:VAL:HB	1.90	0.53
2:BF:686:LEU:O	2:BF:704:VAL:HA	2.09	0.53
2:A1:483:ILE:HD11	2:A1:681:LEU:HB3	1.91	0.53
2:A2:681:LEU:N	2:A2:709:ARG:O	2.39	0.53
2:A2:694:ARG:CG	2:A2:697:GLN:HE21	2.21	0.53
2:A7:396:ALA:HB1	2:A7:422:LEU:HD11	1.90	0.53
2:A8:373:GLU:HB2	2:A8:390:ILE:HG23	1.91	0.53
2:Ax:559:GLU:OE1	2:Ax:595:ARG:NH1	2.41	0.53
2:BA:487:ALA:O	2:BF:242:ASN:ND2	2.42	0.53
2:BG:206:ARG:HE	2:BG:474:PHE:HB3	1.73	0.53
3:Ck:212:SER:O	3:Ck:331:ARG:NH2	2.42	0.53
2:A0:517:ASN:HD22	2:A9:237:ASN:HA	1.74	0.52
2:A2:216:ARG:NH1	2:Aw:291:ASP:OD2	2.43	0.52
2:A2:535:THR:O	2:A2:539:ARG:HB2	2.09	0.52
2:A5:505:ASP:O	2:A5:509:GLN:HG2	2.10	0.52
2:A6:693:THR:HG23	2:A6:698:VAL:HG22	1.91	0.52
2:Av:685:GLU:HG2	2:Av:706:PRO:HA	1.91	0.52
2:Av:691:GLN:HA	2:Av:700:LYS:HA	1.91	0.52
2:Ax:657:ARG:O	2:Ax:659:LYS:N	2.42	0.52
2:BA:407:ASN:OD1	2:BA:408:VAL:N	2.41	0.52
2:BB:412:GLY:H	2:BD:161:GLN:CG	2.21	0.52
2:BC:311:ASP:OD2	2:BC:466:ARG:NH1	2.42	0.52
2:BD:492:PRO:HA	2:BD:700:LYS:O	2.09	0.52
2:BE:347:ASN:HB3	2:BE:364:PHE:CE1	2.44	0.52
2:BE:505:ASP:O	2:BE:509:GLN:HG2	2.09	0.52
2:BH:314:ASP:OD1	2:BH:315:ALA:N	2.41	0.52
2:BH:373:GLU:OE1	2:BH:393:LYS:HG2	2.09	0.52
5:P:5:ASP:HB3	8:a:118:PRO:HG3	1.91	0.52
2:A0:297:GLU:HG3	2:BD:218:ALA:HA	1.91	0.52
2:A4:270:ARG:HE	2:A4:281:THR:HG23	1.75	0.52
2:A5:165:ARG:O	2:A9:351:LYS:N	2.42	0.52
2:A7:471:HIS:ND1	2:A8:492:PRO:HD3	2.24	0.52
2:A7:687:VAL:HG22	2:A7:704:VAL:HG22	1.89	0.52
2:Ar:692:VAL:N	2:Ar:699:SER:O	2.31	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:As:200:GLY:N	2:Ax:167:MET:HG2	2.25	0.52
2:As:494:PRO:O	2:As:700:LYS:HE2	2.10	0.52
2:As:685:GLU:HG2	2:As:706:PRO:HA	1.91	0.52
2:At:356:ASP:HA	2:BA:477:LYS:HG2	1.92	0.52
2:Au:468:ARG:HB2	2:Av:490:SER:OG	2.09	0.52
2:Au:537:ARG:NH2	2:Ax:428:GLN:HA	2.24	0.52
2:Av:657:ARG:O	2:Av:659:LYS:N	2.41	0.52
2:Aw:377:ASP:OD1	2:Aw:381:ALA:N	2.42	0.52
2:Ay:306:TYR:CE2	2:BE:213:HIS:CE1	2.97	0.52
2:BB:490:SER:HA	2:BB:702:THR:O	2.08	0.52
2:BC:313:LEU:HB2	2:BE:162:LYS:HG3	1.90	0.52
2:BC:490:SER:HA	2:BC:702:THR:O	2.08	0.52
2:BC:666:ARG:NH1	2:BC:668:ILE:HD11	2.24	0.52
2:BD:503:ASP:O	2:BD:507:LEU:HG	2.09	0.52
2:BE:325:GLU:HB2	2:BE:452:VAL:CG2	2.38	0.52
2:BE:657:ARG:O	2:BE:659:LYS:N	2.42	0.52
2:BG:319:LEU:HA	2:BG:456:LEU:HD23	1.91	0.52
2:BG:689:VAL:HG22	2:BG:702:THR:HG23	1.91	0.52
6:Q:150:ASP:OD1	6:Q:151:CYS:N	2.41	0.52
2:A0:209:LEU:N	2:A0:473:ASP:O	2.34	0.52
2:A3:247:LEU:HD12	2:A3:458:ILE:HG22	1.91	0.52
2:A3:637:PHE:CZ	2:A4:632:GLN:HB2	2.44	0.52
2:A5:365:ASP:CG	2:A5:401:GLU:HG2	2.34	0.52
2:A6:428:GLN:HA	2:A7:537:ARG:NH2	2.23	0.52
2:A6:494:PRO:O	2:A6:700:LYS:HE2	2.09	0.52
2:A8:737:VAL:HA	2:A9:735:LEU:H	1.75	0.52
2:A9:695:ASN:OD1	2:A9:695:ASN:N	2.42	0.52
2:As:336:TYR:O	2:As:378:VAL:HG23	2.09	0.52
2:Au:333:LYS:HD3	2:Au:384:GLU:HB3	1.90	0.52
2:Au:468:ARG:NH1	2:Av:694:ARG:HG3	2.24	0.52
2:Az:210:VAL:N	2:Az:228:ARG:O	2.41	0.52
2:Az:490:SER:HA	2:Az:702:THR:O	2.09	0.52
2:BC:314:ASP:OD1	2:BC:315:ALA:N	2.41	0.52
2:BF:539:ARG:HG2	2:BF:555:ARG:HD3	1.91	0.52
2:A0:565:LEU:HD12	2:A0:725:LEU:HA	1.91	0.52
2:A4:465:ARG:HH12	2:Ay:689:VAL:CA	2.23	0.52
2:A9:319:LEU:HA	2:A9:456:LEU:HD23	1.91	0.52
2:A9:464:ASN:OD1	2:A9:464:ASN:N	2.41	0.52
2:As:308:ASP:HA	2:BH:215:ARG:HA	1.92	0.52
2:Au:689:VAL:C	2:Ax:465:ARG:HH12	2.18	0.52
2:Av:490:SER:HA	2:Av:702:THR:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:174:PHE:CE1	2:BF:553:LEU:HA	2.43	0.52
2:BB:214:LEU:HD11	2:BB:223:ALA:HB1	1.92	0.52
2:BC:301:ILE:HD11	2:BC:460:ARG:HH22	1.73	0.52
2:BD:737:VAL:HG22	2:BE:735:LEU:HD12	1.92	0.52
2:BE:490:SER:HA	2:BE:702:THR:O	2.09	0.52
2:BF:483:ILE:HD11	2:BF:681:LEU:HB3	1.91	0.52
2:BH:657:ARG:O	2:BH:659:LYS:N	2.42	0.52
3:Ck:315:GLU:HA	3:Ck:318:ARG:HH21	1.74	0.52
8:a:155:LEU:HB3	8:a:159:ARG:CZ	2.40	0.52
2:A0:488:PRO:HB3	2:A0:705:GLN:HB2	1.91	0.52
2:A1:733:ILE:O	2:Az:570:GLN:NE2	2.42	0.52
2:A3:560:GLU:HG3	2:A3:719:LEU:HB3	1.92	0.52
2:A5:200:GLY:N	2:A6:167:MET:HG2	2.19	0.52
2:A5:666:ARG:NH1	2:A5:668:ILE:HD11	2.25	0.52
2:As:266:ILE:HG22	2:As:267:VAL:HG23	1.92	0.52
2:At:485:LEU:HB3	2:At:705:GLN:HE21	1.74	0.52
2:Ay:304:ASN:C	2:BF:693:THR:HG23	2.35	0.52
2:Ay:306:TYR:CE2	2:BE:213:HIS:HE1	2.27	0.52
2:BB:274:ILE:HB	2:BB:279:TYR:CE2	2.44	0.52
2:BB:361:THR:O	2:BD:165:ARG:HB2	2.09	0.52
2:BB:497:TRP:NE1	2:BB:499:GLU:O	2.41	0.52
2:BC:349:PHE:CZ	2:BC:362:LEU:HB2	2.45	0.52
2:BG:190:ASN:O	2:BG:680:PHE:N	2.37	0.52
3:Ck:273:ILE:O	3:Ck:277:ARG:HG3	2.09	0.52
6:Q:107:TYR:OH	6:Q:131:ARG:O	2.27	0.52
2:A3:377:ASP:OD1	2:A3:381:ALA:N	2.42	0.52
2:A5:424:ARG:HH12	2:A6:543:ASP:CG	2.16	0.52
2:A7:244:VAL:HG22	2:A8:487:ALA:HB1	1.91	0.52
2:A7:483:ILE:HD11	2:A7:681:LEU:HB3	1.90	0.52
2:A7:560:GLU:HG3	2:A7:719:LEU:HB3	1.92	0.52
2:A8:215:ARG:HG3	2:BH:306:TYR:CD2	2.44	0.52
2:Av:319:LEU:HD12	2:Av:455:GLU:O	2.10	0.52
2:Av:373:GLU:HB2	2:Av:390:ILE:HG23	1.90	0.52
2:Ax:338:PRO:HD3	2:Ax:378:VAL:HG22	1.92	0.52
2:Az:377:ASP:OD1	2:Az:381:ALA:N	2.42	0.52
2:BE:427:ASP:OD1	2:BE:428:GLN:N	2.36	0.52
3:Ck:281:GLN:HA	3:Ck:284:TRP:CD1	2.44	0.52
6:Q:15:HIS:HB3	6:Q:19:ARG:NH1	2.25	0.52
2:A0:307:SER:HA	2:A0:466:ARG:HH12	1.74	0.52
2:A8:237:ASN:HA	2:A9:517:ASN:ND2	2.25	0.52
2:Ar:624:ASP:HB3	2:Ar:656:LEU:O	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:As:161:GLN:C	2:Aw:358:ARG:HH21	2.16	0.52
2:At:354:GLU:CD	2:BA:480:ARG:HB3	2.35	0.52
2:At:364:PHE:HB3	2:At:402:VAL:HB	1.92	0.52
2:Ay:689:VAL:HG22	2:Ay:702:THR:HG23	1.91	0.52
2:Az:270:ARG:HE	2:Az:281:THR:HG23	1.74	0.52
2:Az:319:LEU:HA	2:Az:456:LEU:HD23	1.92	0.52
2:BA:158:SER:HB2	2:BE:250:ILE:HB	1.92	0.52
2:BA:172:VAL:HG22	2:BF:549:PHE:C	2.33	0.52
2:BB:350:GLN:HB3	2:BB:351:LYS:O	2.09	0.52
2:A0:306:TYR:H	2:BE:695:ASN:HD22	1.58	0.52
2:A4:360:MET:O	2:A4:406:SER:N	2.41	0.52
2:A7:398:LEU:HD23	2:A7:422:LEU:HA	1.92	0.52
2:A8:535:THR:O	2:A8:539:ARG:HB2	2.10	0.52
2:As:666:ARG:NH1	2:As:668:ILE:HD11	2.24	0.52
2:Au:173:VAL:HA	2:Ax:206:ARG:HB3	1.92	0.52
2:Av:586:MET:O	2:Av:590:ARG:HG3	2.10	0.52
2:Av:689:VAL:HG22	2:Av:702:THR:HG23	1.91	0.52
2:Ay:319:LEU:HA	2:Ay:456:LEU:HD23	1.90	0.52
2:BA:491:ILE:HG13	2:BF:470:LYS:HG2	1.91	0.52
2:BB:239:VAL:O	2:BB:470:LYS:NZ	2.43	0.52
2:BB:350:GLN:NE2	2:BD:165:ARG:HH21	2.08	0.52
2:BB:411:ALA:HA	2:BD:161:GLN:HB2	1.91	0.52
2:BC:260:TYR:CD1	2:BC:290:ILE:HG12	2.45	0.52
2:BE:468:ARG:HA	2:BF:703:MET:HE2	1.92	0.52
2:BF:680:PHE:CZ	2:BF:708:CYS:HB2	2.44	0.52
2:BH:266:ILE:HG22	2:BH:267:VAL:HG23	1.92	0.52
3:Ck:436:PHE:O	3:Ck:439:LYS:HG3	2.10	0.52
2:A1:216:ARG:NH2	2:A5:159:TYR:CD1	2.78	0.52
2:A1:266:ILE:HG22	2:A1:267:VAL:HG23	1.92	0.52
2:A1:538:PHE:HZ	2:Az:395:ALA:HB3	1.75	0.52
2:A2:180:ARG:HA	2:A2:512:ASN:HB3	1.92	0.52
2:A2:657:ARG:O	2:A2:659:LYS:N	2.42	0.52
2:A4:368:SER:HB3	2:Ay:545:GLN:HB2	1.91	0.52
2:As:322:ILE:HA	2:As:454:TYR:HA	1.91	0.52
2:As:535:THR:O	2:As:539:ARG:HB2	2.10	0.52
2:As:535:THR:HG21	2:As:556:PRO:HB2	1.92	0.52
2:At:298:ASP:OD2	2:At:300:SER:OG	2.18	0.52
2:At:435:ARG:HA	2:At:440:PHE:CD2	2.44	0.52
2:Au:319:LEU:HA	2:Au:456:LEU:HD23	1.91	0.52
2:Au:689:VAL:HG22	2:Au:702:THR:HG23	1.91	0.52
2:Ax:624:ASP:HB3	2:Ax:656:LEU:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Az:336:TYR:O	2:Az:378:VAL:HG23	2.09	0.52
2:BF:535:THR:HB	2:BF:556:PRO:HG2	1.92	0.52
2:BF:666:ARG:NH1	2:BF:668:ILE:HD11	2.24	0.52
2:BF:685:GLU:HG2	2:BF:706:PRO:HA	1.92	0.52
2:BG:694:ARG:HB2	2:BG:697:GLN:CG	2.40	0.52
3:Ck:223:ASN:OD1	3:Ck:223:ASN:N	2.42	0.52
5:O:36:TYR:OH	5:P:103:MET:SD	2.67	0.52
8:a:93:GLY:O	8:a:163:LYS:N	2.41	0.52
2:A0:311:ASP:OD1	2:A0:464:ASN:ND2	2.43	0.52
2:A0:495:LEU:HD23	2:A0:700:LYS:HG3	1.91	0.52
2:A3:407:ASN:OD1	2:A3:408:VAL:N	2.43	0.52
2:A4:373:GLU:OE1	2:A4:393:LYS:HG2	2.09	0.52
2:A6:464:ASN:OD1	2:A6:464:ASN:N	2.41	0.52
2:A7:314:ASP:OD1	2:A7:315:ALA:N	2.40	0.52
2:As:270:ARG:HE	2:As:281:THR:HG23	1.75	0.52
2:Au:490:SER:OG	2:Ax:468:ARG:HB2	2.10	0.52
2:Aw:398:LEU:HD23	2:Aw:422:LEU:HA	1.92	0.52
2:BA:162:LYS:CB	2:BE:456:LEU:HB3	2.37	0.52
2:BA:489:PHE:C	2:BF:470:LYS:HG3	2.35	0.52
2:BB:333:LYS:HD3	2:BB:384:GLU:HB3	1.92	0.52
2:BC:205:PHE:N	2:BD:171:SER:HB3	2.23	0.52
2:BC:409:GLU:HG3	2:BE:161:GLN:HE21	1.75	0.52
2:BH:365:ASP:CG	2:BH:401:GLU:HG2	2.34	0.52
2:BH:560:GLU:HG3	2:BH:719:LEU:HB3	1.92	0.52
2:A0:489:PHE:HD2	2:A9:470:LYS:HB2	1.74	0.51
2:A1:313:LEU:CA	2:A1:461:ASN:H	2.22	0.51
2:A1:351:LYS:HA	2:A3:165:ARG:O	2.09	0.51
2:A1:468:ARG:HB2	2:A2:490:SER:OG	2.10	0.51
2:A3:493:ARG:HD2	2:A3:497:TRP:CD2	2.45	0.51
2:A4:639:THR:HA	2:Ay:631:LEU:O	2.10	0.51
2:A6:427:ASP:OD1	2:A6:428:GLN:N	2.38	0.51
2:A6:495:LEU:HD23	2:A6:700:LYS:HG3	1.93	0.51
2:A7:461:ASN:ND2	2:A9:162:LYS:HE3	2.26	0.51
2:A8:561:ILE:O	2:A8:720:ILE:HA	2.09	0.51
2:Ar:657:ARG:O	2:Ar:659:LYS:N	2.43	0.51
2:As:410:LYS:HG2	2:BH:225:TRP:CE2	2.45	0.51
2:As:694:ARG:HB2	2:As:697:GLN:CG	2.40	0.51
2:Au:558:PHE:HD1	2:Au:717:LEU:HB3	1.74	0.51
2:Av:184:MET:HE3	2:Av:519:MET:HE1	1.92	0.51
2:BB:530:LEU:HD22	2:BB:558:PHE:HB2	1.91	0.51
2:BF:350:GLN:N	2:BF:361:THR:O	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BF:548:GLY:O	2:BF:551:ARG:NH1	2.43	0.51
2:BG:209:LEU:N	2:BG:473:ASP:O	2.41	0.51
2:BH:398:LEU:HD23	2:BH:422:LEU:HA	1.92	0.51
2:A0:461:ASN:HD21	2:A6:162:LYS:HE3	1.75	0.51
2:A1:241:SER:O	2:A1:470:LYS:HE3	2.10	0.51
2:A2:680:PHE:CZ	2:A2:708:CYS:HB2	2.45	0.51
2:A4:435:ARG:HA	2:A4:440:PHE:CD2	2.46	0.51
2:A5:373:GLU:HB2	2:A5:390:ILE:HG23	1.92	0.51
2:A5:561:ILE:O	2:A5:720:ILE:HA	2.09	0.51
2:A6:424:ARG:HH12	2:A7:543:ASP:CG	2.19	0.51
2:A9:270:ARG:HE	2:A9:281:THR:HG23	1.75	0.51
2:A9:354:GLU:OE1	2:Az:346:THR:HG22	2.10	0.51
2:Ar:689:VAL:HG22	2:Ar:702:THR:HG23	1.91	0.51
2:Au:266:ILE:HG22	2:Au:267:VAL:HG23	1.92	0.51
2:Au:468:ARG:HH12	2:Av:694:ARG:HG3	1.75	0.51
2:Av:377:ASP:OD1	2:Av:381:ALA:N	2.43	0.51
2:BB:313:LEU:HD22	2:BD:162:LYS:HE3	1.92	0.51
2:BD:241:SER:O	2:BD:470:LYS:HE3	2.10	0.51
2:BE:317:ILE:HG23	2:BE:458:ILE:CG1	2.40	0.51
2:A2:319:LEU:HA	2:A2:456:LEU:HD23	1.91	0.51
2:A4:350:GLN:CG	2:Ay:480:ARG:HH11	2.24	0.51
2:A4:362:LEU:O	2:A4:404:GLY:N	2.40	0.51
2:A4:362:LEU:N	2:A4:404:GLY:O	2.28	0.51
2:A5:165:ARG:HG2	2:A9:349:PHE:HD2	1.76	0.51
2:A9:377:ASP:OD1	2:A9:381:ALA:N	2.43	0.51
2:Av:693:THR:HG23	2:Av:698:VAL:HG22	1.91	0.51
2:Ax:373:GLU:OE1	2:Ax:393:LYS:HG2	2.11	0.51
2:Ay:468:ARG:HB2	2:Az:490:SER:OG	2.09	0.51
2:Az:694:ARG:HB2	2:Az:697:GLN:HG3	1.92	0.51
2:BG:657:ARG:O	2:BG:659:LYS:N	2.44	0.51
2:BG:685:GLU:HG2	2:BG:706:PRO:HA	1.91	0.51
2:BH:464:ASN:N	2:BH:464:ASN:OD1	2.44	0.51
2:BH:693:THR:HG23	2:BH:698:VAL:HG22	1.92	0.51
4:G:180:GLN:HB3	4:G:184:ARG:CZ	2.39	0.51
2:A2:468:ARG:HB2	2:A3:490:SER:OG	2.09	0.51
2:A3:689:VAL:HG22	2:A3:702:THR:HG23	1.92	0.51
2:A5:237:ASN:HA	2:A6:517:ASN:ND2	2.26	0.51
2:A5:694:ARG:HB2	2:A5:697:GLN:CG	2.40	0.51
2:A9:365:ASP:CG	2:A9:401:GLU:HG2	2.36	0.51
2:Ar:560:GLU:HG3	2:Ar:719:LEU:HB3	1.92	0.51
2:As:200:GLY:HA3	2:As:481:TYR:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:As:689:VAL:HG22	2:As:702:THR:HG23	1.91	0.51
2:Av:165:ARG:HH22	2:Ax:353:LEU:HD23	1.75	0.51
2:Av:336:TYR:O	2:Av:378:VAL:HG23	2.10	0.51
2:BB:165:ARG:HD2	2:BF:351:LYS:HG2	1.91	0.51
2:BE:642:VAL:H	2:BF:629:GLN:NE2	2.07	0.51
2:BG:173:VAL:HA	2:BH:206:ARG:HB3	1.93	0.51
5:O:50:ASP:HB3	5:O:84:ARG:HH21	1.74	0.51
2:A1:304:ASN:HA	2:A2:695:ASN:HB3	1.92	0.51
2:A1:489:PHE:HD2	2:Az:470:LYS:HB2	1.76	0.51
2:A3:559:GLU:O	2:A3:718:GLY:HA2	2.11	0.51
2:A4:565:LEU:HD12	2:A4:725:LEU:HA	1.92	0.51
2:A5:495:LEU:HD12	2:Az:465:ARG:HG3	1.92	0.51
2:A7:558:PHE:HD1	2:A7:717:LEU:HB3	1.74	0.51
2:A8:666:ARG:NH1	2:A8:668:ILE:HD11	2.25	0.51
2:A9:312:ALA:CB	2:A9:461:ASN:HB3	2.39	0.51
2:Au:561:ILE:O	2:Au:720:ILE:HA	2.10	0.51
2:Au:732:ASN:CG	2:Ax:570:GLN:HB2	2.36	0.51
2:Ay:489:PHE:O	2:Ay:703:MET:HA	2.11	0.51
2:Az:565:LEU:HD12	2:Az:725:LEU:HA	1.92	0.51
2:BC:307:SER:HA	2:BC:466:ARG:NH1	2.26	0.51
2:BC:427:ASP:OD1	2:BC:428:GLN:N	2.36	0.51
2:BE:535:THR:HG21	2:BE:556:PRO:HB2	1.92	0.51
2:BG:184:MET:HE3	2:BG:519:MET:HE1	1.93	0.51
2:BG:398:LEU:HD23	2:BG:422:LEU:HA	1.93	0.51
2:A1:409:GLU:HG2	2:Ar:227:ARG:HH22	1.73	0.51
2:A1:639:THR:HA	2:A2:631:LEU:O	2.10	0.51
2:A1:657:ARG:O	2:A1:659:LYS:N	2.44	0.51
2:A4:319:LEU:HD12	2:A4:455:GLU:O	2.10	0.51
2:A6:398:LEU:HD23	2:A6:422:LEU:HA	1.93	0.51
2:A7:462:ASN:ND2	2:A7:467:GLU:O	2.44	0.51
2:A9:307:SER:HA	2:A9:466:ARG:HH12	1.76	0.51
2:A9:314:ASP:OD1	2:A9:315:ALA:N	2.40	0.51
2:A9:561:ILE:N	2:A9:719:LEU:O	2.36	0.51
2:As:695:ASN:OD1	2:As:695:ASN:N	2.40	0.51
2:Av:366:THR:OG1	2:Aw:545:GLN:OE1	2.18	0.51
2:Ax:333:LYS:HD3	2:Ax:384:GLU:HB3	1.91	0.51
2:Ay:469:GLY:HA3	2:Az:489:PHE:HA	1.93	0.51
2:BA:173:VAL:HG21	2:BF:205:PHE:O	2.11	0.51
2:BB:235:MET:HE1	2:BB:601:GLY:HA2	1.93	0.51
2:BB:289:LEU:CD1	2:BB:413:LEU:H	2.23	0.51
2:BC:350:GLN:C	2:BE:165:ARG:HB3	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BE:368:SER:HB3	2:BF:545:GLN:OE1	2.11	0.51
2:BF:688:SER:O	2:BF:703:MET:N	2.34	0.51
2:BG:247:LEU:HD21	2:BG:460:ARG:HB2	1.92	0.51
2:BG:490:SER:HA	2:BG:702:THR:O	2.10	0.51
3:Ck:460:ALA:O	3:Ck:464:LYS:HG3	2.10	0.51
5:O:135:THR:HG22	5:P:13:LEU:HD21	1.93	0.51
2:A0:200:GLY:HA3	2:A0:482:ALA:HA	1.93	0.51
2:A1:632:GLN:HA	2:Az:638:ARG:O	2.11	0.51
2:A7:693:THR:HG23	2:A7:698:VAL:HG22	1.92	0.51
2:A9:336:TYR:O	2:A9:378:VAL:HG23	2.11	0.51
2:Ar:165:ARG:HD3	2:Av:351:LYS:HB3	1.93	0.51
2:As:407:ASN:OD1	2:As:408:VAL:N	2.44	0.51
2:Aw:657:ARG:O	2:Aw:659:LYS:N	2.43	0.51
2:BD:203:VAL:HG23	2:BE:169:PRO:CB	2.39	0.51
2:BD:427:ASP:OD1	2:BD:428:GLN:N	2.39	0.51
2:BE:400:ILE:HG13	2:BE:419:ASN:O	2.10	0.51
2:BE:666:ARG:NH1	2:BE:668:ILE:HD11	2.26	0.51
2:BF:272:ILE:O	2:BF:279:TYR:N	2.31	0.51
3:Ck:317:VAL:HG21	3:Ck:411:ALA:HB1	1.91	0.51
3:Ck:881:TYR:O	3:Ck:885:GLN:HG3	2.11	0.51
5:O:86:PHE:CZ	5:P:106:LEU:HD13	2.46	0.51
6:Q:30:ASP:OD2	6:Q:33:SER:OG	2.28	0.51
2:A0:351:LYS:NZ	2:A0:356:ASP:O	2.43	0.51
2:A1:313:LEU:CB	2:A3:162:LYS:HE2	2.34	0.51
2:A3:736:PRO:HG2	2:A4:734:LYS:HA	1.93	0.51
2:A4:206:ARG:HB3	2:Ay:173:VAL:HA	1.93	0.51
2:A4:210:VAL:O	2:A4:227:ARG:HA	2.11	0.51
2:A4:314:ASP:OD1	2:A4:315:ALA:N	2.42	0.51
2:A7:179:SER:O	2:A7:512:ASN:HB3	2.11	0.51
2:A8:358:ARG:HD2	2:A8:408:VAL:HB	1.92	0.51
2:As:298:ASP:OD2	2:As:300:SER:OG	2.20	0.51
2:At:659:LYS:HG3	2:At:719:LEU:HD11	1.93	0.51
2:BA:173:VAL:CG1	2:BF:207:ARG:HB3	2.41	0.51
2:BA:272:ILE:O	2:BA:279:TYR:N	2.31	0.51
2:BA:560:GLU:HG3	2:BA:719:LEU:HB3	1.92	0.51
2:BB:410:LYS:N	2:BD:161:GLN:OE1	2.44	0.51
2:BC:360:MET:SD	2:BE:164:LEU:N	2.80	0.51
2:BC:410:LYS:O	2:BE:159:TYR:HE1	1.94	0.51
2:BF:397:GLN:OE1	2:BF:424:ARG:HD2	2.11	0.51
2:BG:427:ASP:OD1	2:BG:428:GLN:N	2.39	0.51
2:A0:353:LEU:HD12	2:BC:350:GLN:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:464:ASN:N	2:A0:464:ASN:OD1	2.44	0.51
2:A0:480:ARG:HH11	2:A9:350:GLN:CD	2.15	0.51
2:A1:530:LEU:HD22	2:A1:558:PHE:HB2	1.92	0.51
2:A1:545:GLN:OE1	2:Az:366:THR:OG1	2.23	0.51
2:A2:199:ILE:HG22	2:A2:483:ILE:H	1.76	0.51
2:A2:694:ARG:HG3	2:A2:697:GLN:HE21	1.76	0.51
2:A4:314:ASP:O	2:Az:162:LYS:HE3	2.11	0.51
2:A9:179:SER:O	2:A9:512:ASN:HB3	2.11	0.51
2:As:319:LEU:HA	2:As:456:LEU:HD23	1.92	0.51
2:At:273:GLU:HA	2:At:277:VAL:O	2.11	0.51
2:At:346:THR:O	2:At:364:PHE:HD1	1.94	0.51
2:Aw:689:VAL:HG22	2:Aw:702:THR:HG23	1.93	0.51
2:Ay:301:ILE:O	2:BF:696:GLY:CA	2.59	0.51
2:Az:464:ASN:OD1	2:Az:464:ASN:N	2.44	0.51
2:BC:205:PHE:HB3	2:BD:171:SER:O	2.11	0.51
2:BG:495:LEU:HD23	2:BG:700:LYS:HG3	1.93	0.51
2:A1:427:ASP:OD1	2:A1:428:GLN:N	2.37	0.51
2:A2:201:TYR:N	2:A2:481:TYR:O	2.42	0.51
2:A2:398:LEU:HD23	2:A2:422:LEU:HA	1.92	0.51
2:A4:215:ARG:HD2	2:Ay:695:ASN:HD21	1.76	0.51
2:A5:213:HIS:HE1	2:BC:306:TYR:HE2	1.58	0.51
2:A5:301:ILE:HD11	2:A5:460:ARG:HH22	1.75	0.51
2:A5:637:PHE:CZ	2:A6:632:GLN:HB2	2.45	0.51
2:A5:734:LYS:NZ	2:A9:740:ASN:HB3	2.26	0.51
2:A8:559:GLU:O	2:A8:718:GLY:HA2	2.11	0.51
2:As:165:ARG:HB2	2:Aw:351:LYS:HB3	1.93	0.51
2:As:307:SER:HB3	2:BH:216:ARG:HG3	1.93	0.51
2:Au:423:TYR:O	2:Au:435:ARG:NH2	2.44	0.51
2:Au:464:ASN:N	2:Au:464:ASN:OD1	2.44	0.51
2:Aw:624:ASP:HB3	2:Aw:656:LEU:O	2.09	0.51
2:Ay:535:THR:O	2:Ay:539:ARG:HB2	2.11	0.51
2:BA:506:VAL:HB	2:BF:472:LEU:CD1	2.41	0.51
2:BB:666:ARG:NH1	2:BB:668:ILE:HD11	2.26	0.51
2:BD:686:LEU:O	2:BD:704:VAL:HA	2.11	0.51
2:BF:497:TRP:CZ2	2:BF:499:GLU:HB2	2.46	0.51
2:BF:505:ASP:O	2:BF:509:GLN:HG2	2.11	0.51
2:BH:494:PRO:O	2:BH:700:LYS:HE2	2.11	0.51
4:G:195:ILE:O	4:G:201:ARG:NH1	2.43	0.51
8:a:245:GLN:O	8:a:249:GLN:HG3	2.11	0.51
2:A2:493:ARG:HD2	2:A2:497:TRP:CD2	2.46	0.50
2:A4:349:PHE:HD2	2:Az:165:ARG:HG3	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:464:ASN:OD1	2:A4:464:ASN:N	2.44	0.50
2:A6:697:GLN:HB2	2:BC:464:ASN:HB3	1.94	0.50
2:A9:246:ASP:OD1	2:A9:459:ARG:HG2	2.11	0.50
2:As:530:LEU:HD22	2:As:558:PHE:HB2	1.93	0.50
2:Au:489:PHE:O	2:Au:703:MET:HA	2.11	0.50
2:Au:493:ARG:HD2	2:Au:497:TRP:CD2	2.46	0.50
2:Ay:396:ALA:HB1	2:Ay:422:LEU:HD11	1.94	0.50
2:Ay:468:ARG:HH12	2:Az:694:ARG:HG3	1.75	0.50
2:Az:562:ASN:HA	2:Az:721:ASN:HB2	1.92	0.50
2:BD:479:GLU:OE2	2:BD:551:ARG:NH2	2.44	0.50
2:BF:682:TYR:OH	2:BF:684:PRO:HA	2.11	0.50
2:BG:693:THR:HG23	2:BG:698:VAL:HG22	1.92	0.50
3:Ck:463:VAL:HA	3:Ck:466:LEU:HB3	1.93	0.50
2:A0:319:LEU:HA	2:A0:456:LEU:HD23	1.92	0.50
2:A2:423:TYR:O	2:A2:435:ARG:NH2	2.44	0.50
2:A2:486:LEU:O	2:A2:705:GLN:HG3	2.11	0.50
2:A2:697:GLN:HA	2:A9:466:ARG:HH21	1.76	0.50
2:A5:162:LYS:HD3	2:A9:313:LEU:O	2.10	0.50
2:A5:266:ILE:HG22	2:A5:267:VAL:HG23	1.92	0.50
2:A5:535:THR:O	2:A5:539:ARG:HB2	2.11	0.50
2:A6:298:ASP:OD2	2:A6:300:SER:OG	2.22	0.50
2:Ar:734:LYS:HZ3	2:Av:740:ASN:HB3	1.73	0.50
2:Av:292:MET:HE2	2:Av:458:ILE:HD12	1.92	0.50
2:Ax:319:LEU:HD12	2:Ax:455:GLU:O	2.12	0.50
2:Ax:558:PHE:HD1	2:Ax:717:LEU:HB3	1.75	0.50
2:BA:689:VAL:N	2:BF:465:ARG:HH21	2.09	0.50
2:BB:695:ASN:OD1	2:BB:695:ASN:N	2.45	0.50
2:BE:637:PHE:CE1	2:BF:632:GLN:HB2	2.46	0.50
5:O:110:VAL:HG22	5:P:28:ILE:HD13	1.93	0.50
6:Q:125:THR:HA	6:Q:130:LYS:HD3	1.92	0.50
2:A0:266:ILE:HG22	2:A0:267:VAL:HG23	1.94	0.50
2:A0:695:ASN:HB2	2:Ar:306:TYR:H	1.77	0.50
2:A2:427:ASP:OD1	2:A2:428:GLN:N	2.37	0.50
2:A4:427:ASP:OD1	2:A4:428:GLN:N	2.38	0.50
2:A6:377:ASP:OD1	2:A6:381:ALA:N	2.45	0.50
2:A6:666:ARG:NH1	2:A6:668:ILE:HD11	2.26	0.50
2:A8:200:GLY:H	2:A9:167:MET:HG2	1.75	0.50
2:Ar:680:PHE:CZ	2:Ar:708:CYS:HB2	2.46	0.50
2:Av:736:PRO:HG2	2:Aw:734:LYS:HA	1.94	0.50
2:Ax:310:THR:OG1	2:Ax:464:ASN:ND2	2.44	0.50
2:Ay:306:TYR:HD1	2:BF:694:ARG:HB3	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:174:PHE:CD2	2:BF:229:PRO:HB2	2.47	0.50
2:BC:359:LYS:C	2:BC:360:MET:HG3	2.36	0.50
2:BC:565:LEU:HD12	2:BC:725:LEU:HA	1.94	0.50
2:BE:322:ILE:HA	2:BE:454:TYR:HA	1.91	0.50
8:a:64:TYR:O	8:a:193:ARG:NH2	2.45	0.50
2:A0:427:ASP:OD1	2:A0:428:GLN:N	2.39	0.50
2:A0:624:ASP:HB3	2:A0:656:LEU:O	2.10	0.50
2:A1:377:ASP:OD1	2:A1:381:ALA:N	2.44	0.50
2:A1:466:ARG:HA	2:A2:694:ARG:HH12	1.77	0.50
2:A1:578:ARG:HG3	2:A1:729:TYR:OH	2.12	0.50
2:A2:351:LYS:HG2	2:A4:165:ARG:HD3	1.93	0.50
2:A2:482:ALA:O	2:A2:709:ARG:NH1	2.36	0.50
2:A3:322:ILE:HA	2:A3:454:TYR:HA	1.93	0.50
2:A3:483:ILE:HD11	2:A3:681:LEU:HB3	1.94	0.50
2:A4:309:ASN:HA	2:Az:159:TYR:CB	2.42	0.50
2:A4:530:LEU:HD22	2:A4:558:PHE:HB2	1.92	0.50
2:A5:247:LEU:HD21	2:A5:460:ARG:HB2	1.93	0.50
2:A6:180:ARG:HG3	2:A6:515:PHE:CD2	2.46	0.50
2:A8:493:ARG:HD2	2:A8:497:TRP:CG	2.46	0.50
2:A8:689:VAL:HG22	2:A8:702:THR:HG23	1.92	0.50
2:Aw:179:SER:O	2:Aw:512:ASN:HB3	2.12	0.50
2:Aw:488:PRO:HB3	2:Aw:705:GLN:HB2	1.93	0.50
2:BA:167:MET:HB2	2:BE:347:ASN:CG	2.37	0.50
2:BD:398:LEU:HD23	2:BD:422:LEU:HA	1.93	0.50
3:Ck:578:MET:HB3	3:Ck:866:ALA:HB1	1.94	0.50
4:G:96:GLN:OE1	4:G:96:GLN:N	2.33	0.50
4:G:169:LEU:HD22	4:G:208:MET:HE1	1.92	0.50
8:a:273:ALA:O	8:a:277:ASN:ND2	2.44	0.50
2:A3:470:LYS:HB2	2:A4:489:PHE:CD2	2.47	0.50
2:A6:740:ASN:HB3	2:A8:734:LYS:HZ3	1.75	0.50
2:A8:464:ASN:N	2:A8:464:ASN:OD1	2.45	0.50
2:Ar:489:PHE:O	2:Ar:703:MET:HA	2.12	0.50
2:As:351:LYS:HB3	2:Au:165:ARG:HD3	1.93	0.50
2:As:428:GLN:HA	2:Ax:537:ARG:NH2	2.27	0.50
2:Ay:321:LYS:HB2	2:Ay:455:GLU:HB3	1.92	0.50
2:Ay:354:GLU:OE2	2:BE:480:ARG:HB3	2.11	0.50
2:Ay:561:ILE:O	2:Ay:720:ILE:HA	2.10	0.50
2:BA:489:PHE:HB3	2:BF:470:LYS:HG3	1.92	0.50
2:BB:688:SER:OG	2:BB:703:MET:HB3	2.12	0.50
2:BE:300:SER:O	2:BE:304:ASN:ND2	2.44	0.50
2:BG:537:ARG:NH2	2:BH:394:SER:HA	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a:179:GLU:HG2	8:a:183:ARG:HE	1.77	0.50
2:A0:314:ASP:OD1	2:A0:315:ALA:N	2.42	0.50
2:A0:558:PHE:HD1	2:A0:717:LEU:HB3	1.76	0.50
2:A0:682:TYR:OH	2:A0:684:PRO:HA	2.11	0.50
2:A4:206:ARG:N	2:Ay:172:VAL:O	2.45	0.50
2:A5:493:ARG:HD2	2:A5:497:TRP:CD2	2.45	0.50
2:A9:200:GLY:HA3	2:A9:481:TYR:O	2.12	0.50
2:A9:346:THR:HG22	2:Az:354:GLU:HB3	1.94	0.50
2:A9:490:SER:HA	2:A9:702:THR:O	2.11	0.50
2:Ar:373:GLU:HB2	2:Ar:390:ILE:HG23	1.93	0.50
2:Ay:323:LEU:O	2:Ay:451:LEU:HD12	2.11	0.50
2:BA:169:PRO:O	2:BF:479:GLU:HB3	2.10	0.50
2:BA:538:PHE:CZ	2:BF:424:ARG:HD3	2.46	0.50
2:BB:586:MET:O	2:BB:590:ARG:HG3	2.11	0.50
2:BC:398:LEU:HD23	2:BC:422:LEU:HA	1.94	0.50
2:BD:217:ASN:ND2	2:BD:221:THR:OG1	2.45	0.50
2:BE:651:ASN:HD22	2:BE:653:ASN:HB2	1.76	0.50
2:BF:184:MET:HE3	2:BF:519:MET:HE1	1.93	0.50
2:A0:373:GLU:HB2	2:A0:390:ILE:HG23	1.93	0.50
2:A1:409:GLU:HA	2:A3:160:ASP:O	2.11	0.50
2:A2:180:ARG:HG3	2:A2:515:PHE:HD2	1.75	0.50
2:A2:469:GLY:HA3	2:A3:489:PHE:HA	1.94	0.50
2:A3:237:ASN:HA	2:A4:517:ASN:ND2	2.26	0.50
2:A3:535:THR:HG21	2:A3:556:PRO:HB2	1.94	0.50
2:A4:211:PHE:CE1	2:A4:473:ASP:HB2	2.47	0.50
2:A6:179:SER:O	2:A6:512:ASN:HB3	2.12	0.50
2:A6:247:LEU:HD12	2:A6:458:ILE:HG22	1.93	0.50
2:A6:351:LYS:HB3	2:A8:165:ARG:HB2	1.93	0.50
2:A7:322:ILE:HA	2:A7:454:TYR:HA	1.94	0.50
2:A8:424:ARG:HH12	2:A9:543:ASP:CG	2.17	0.50
2:Ar:322:ILE:HG13	2:Ar:339:PHE:HB2	1.93	0.50
2:Ay:305:GLY:O	2:BF:696:GLY:N	2.44	0.50
2:Ay:659:LYS:HB3	2:Ay:719:LEU:HD11	1.93	0.50
2:Az:477:LYS:HG2	2:BD:356:ASP:HA	1.93	0.50
2:BB:316:GLN:OE1	2:BC:484:GLY:HA3	2.12	0.50
2:BC:493:ARG:HD2	2:BC:497:TRP:CG	2.47	0.50
2:BD:297:GLU:OE2	2:BD:307:SER:OG	2.14	0.50
2:BD:370:PHE:HA	2:BD:396:ALA:O	2.11	0.50
2:BF:319:LEU:HD12	2:BF:455:GLU:O	2.11	0.50
2:BG:200:GLY:HA3	2:BG:481:TYR:O	2.12	0.50
2:BG:694:ARG:NH2	2:BG:701:GLU:OE2	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ck:845:ASN:N	3:Ck:845:ASN:OD1	2.43	0.50
2:A0:734:LYS:HA	2:A9:736:PRO:HG2	1.94	0.50
2:A1:693:THR:HG23	2:A1:698:VAL:HG22	1.92	0.50
2:A2:184:MET:HE3	2:A2:519:MET:HE1	1.94	0.50
2:A2:215:ARG:HG3	2:Aw:306:TYR:CE2	2.45	0.50
2:A2:561:ILE:O	2:A2:720:ILE:HA	2.12	0.50
2:A5:560:GLU:HG3	2:A5:719:LEU:HB3	1.93	0.50
2:A5:696:GLY:CA	2:Az:305:GLY:HA3	2.42	0.50
2:A8:317:ILE:HG23	2:A8:458:ILE:HG12	1.93	0.50
2:Ar:365:ASP:CG	2:Ar:401:GLU:HG2	2.36	0.50
2:Aw:298:ASP:OD2	2:Aw:300:SER:OG	2.22	0.50
2:Ay:321:LYS:HD2	2:Ay:455:GLU:OE1	2.11	0.50
2:BB:362:LEU:HD23	2:BB:404:GLY:HA3	1.93	0.50
2:BC:495:LEU:HD21	2:BC:698:VAL:HG12	1.93	0.50
2:BC:638:ARG:O	2:BD:632:GLN:HG3	2.11	0.50
2:BD:666:ARG:NH1	2:BD:668:ILE:HD11	2.26	0.50
2:BE:471:HIS:CE1	2:BF:492:PRO:HD3	2.46	0.50
3:Ck:897:GLU:OE1	3:Ck:900:ARG:NH2	2.45	0.50
2:A2:505:ASP:O	2:A2:509:GLN:HG2	2.12	0.50
2:A3:319:LEU:HD12	2:A3:455:GLU:O	2.11	0.50
2:A4:235:MET:HE1	2:A4:601:GLY:HA2	1.93	0.50
2:A5:535:THR:HG21	2:A5:556:PRO:HB2	1.94	0.50
2:A8:230:LEU:HD23	2:A9:176:VAL:HB	1.93	0.50
2:Ar:535:THR:HG21	2:Ar:556:PRO:HB2	1.93	0.50
2:At:570:GLN:HA	2:At:729:TYR:HE2	1.77	0.50
2:Au:685:GLU:HG2	2:Au:706:PRO:HA	1.93	0.50
2:Au:694:ARG:HG3	2:Ax:468:ARG:NH1	2.27	0.50
2:BA:164:LEU:HD22	2:BE:454:TYR:CD2	2.47	0.50
2:BA:491:ILE:H	2:BF:470:LYS:HA	1.77	0.50
2:BD:681:LEU:N	2:BD:709:ARG:O	2.40	0.50
2:BE:336:TYR:HD2	2:BE:452:VAL:HG21	1.77	0.50
2:BF:208:PRO:HA	2:BF:473:ASP:O	2.12	0.50
2:BG:322:ILE:HA	2:BG:454:TYR:HA	1.94	0.50
3:Ck:150:PHE:CE1	3:Ck:413:SER:HB2	2.47	0.50
3:Ck:273:ILE:HD13	3:Ck:394:TYR:CE1	2.47	0.50
8:a:40:ASN:HB3	8:a:44:MET:HE3	1.94	0.50
8:a:225:ASP:O	8:a:229:GLY:N	2.45	0.50
8:a:260:LEU:O	8:a:264:ILE:HG13	2.12	0.50
2:A2:734:LYS:HZ3	2:Az:740:ASN:HB3	1.76	0.49
2:A3:427:ASP:OD1	2:A3:428:GLN:N	2.38	0.49
2:A4:657:ARG:O	2:A4:659:LYS:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A5:214:LEU:HD23	2:A5:225:TRP:CZ2	2.47	0.49
2:A5:680:PHE:CZ	2:A5:708:CYS:HB2	2.47	0.49
2:A5:695:ASN:OD1	2:A5:695:ASN:N	2.41	0.49
2:A6:210:VAL:O	2:A6:227:ARG:HA	2.12	0.49
2:A6:657:ARG:O	2:A6:659:LYS:N	2.43	0.49
2:A8:559:GLU:CD	2:A8:595:ARG:HH12	2.20	0.49
2:Aw:658:ASP:N	2:Aw:658:ASP:OD1	2.45	0.49
2:Ax:190:ASN:O	2:Ax:680:PHE:N	2.38	0.49
2:Ay:559:GLU:O	2:Ay:718:GLY:HA2	2.11	0.49
2:Ay:736:PRO:HG3	2:Az:732:ASN:ND2	2.27	0.49
2:Az:535:THR:HG21	2:Az:556:PRO:HB2	1.93	0.49
2:BA:166:ASP:O	2:BE:318:THR:HA	2.12	0.49
2:BB:160:ASP:OD1	2:BF:309:ASN:O	2.29	0.49
2:BC:230:LEU:HG	2:BD:176:VAL:HG11	1.94	0.49
2:BD:535:THR:O	2:BD:539:ARG:HB2	2.12	0.49
7:R:107:ALA:O	7:R:111:ILE:HG13	2.11	0.49
2:A1:624:ASP:HB3	2:A1:656:LEU:O	2.11	0.49
2:A4:364:PHE:O	2:A4:402:VAL:N	2.29	0.49
2:A4:660:ILE:O	2:A4:719:LEU:HD12	2.11	0.49
2:A8:489:PHE:O	2:A8:703:MET:HA	2.12	0.49
2:As:559:GLU:CD	2:As:595:ARG:HH12	2.19	0.49
2:Au:624:ASP:HB3	2:Au:656:LEU:O	2.11	0.49
2:Ay:394:SER:HA	2:Az:537:ARG:NH2	2.27	0.49
2:Az:216:ARG:NH2	2:BD:293:ILE:HD12	2.27	0.49
2:BA:172:VAL:CG1	2:BF:553:LEU:HG	2.42	0.49
2:BB:210:VAL:O	2:BB:227:ARG:HA	2.12	0.49
2:BB:507:LEU:HD13	2:BB:704:VAL:HG23	1.94	0.49
2:BB:694:ARG:HB2	2:BB:697:GLN:HG3	1.93	0.49
2:BC:666:ARG:NE	2:BC:675:LEU:HD12	2.27	0.49
2:BC:736:PRO:HG3	2:BD:732:ASN:HD22	1.77	0.49
2:BG:629:GLN:HE22	2:BH:642:VAL:H	1.61	0.49
2:BH:319:LEU:HA	2:BH:456:LEU:HD23	1.92	0.49
3:Ck:778:LEU:O	3:Ck:789:ALA:N	2.39	0.49
8:a:127:CYS:HB2	8:a:218:LEU:HD22	1.93	0.49
2:A2:685:GLU:HG2	2:A2:706:PRO:HA	1.94	0.49
2:A3:319:LEU:HA	2:A3:456:LEU:HD23	1.93	0.49
2:A3:350:GLN:CD	2:A4:480:ARG:HH11	2.20	0.49
2:A7:680:PHE:CZ	2:A7:708:CYS:HB2	2.48	0.49
2:A8:319:LEU:HD12	2:A8:455:GLU:O	2.12	0.49
2:Ar:464:ASN:N	2:Ar:464:ASN:OD1	2.45	0.49
2:Ar:493:ARG:HD2	2:Ar:497:TRP:CD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ar:543:ASP:CG	2:Aw:424:ARG:HH12	2.20	0.49
2:As:559:GLU:O	2:As:718:GLY:HA2	2.12	0.49
2:As:561:ILE:O	2:As:720:ILE:HA	2.11	0.49
2:Av:427:ASP:OD1	2:Av:428:GLN:N	2.38	0.49
2:Aw:180:ARG:HG3	2:Aw:515:PHE:CD2	2.47	0.49
2:Ax:298:ASP:OD2	2:Ax:300:SER:OG	2.18	0.49
2:BA:166:ASP:OD1	2:BE:348:GLY:HA2	2.12	0.49
2:BA:557:TRP:CZ3	2:BA:596:MET:HG2	2.47	0.49
2:BC:694:ARG:NH2	2:BC:701:GLU:OE2	2.37	0.49
2:BD:493:ARG:HD2	2:BD:497:TRP:CD2	2.47	0.49
2:BE:473:ASP:OD1	2:BE:474:PHE:N	2.45	0.49
2:BE:558:PHE:HA	2:BE:717:LEU:O	2.12	0.49
2:BF:209:LEU:N	2:BF:473:ASP:O	2.45	0.49
2:BH:190:ASN:O	2:BH:680:PHE:N	2.40	0.49
6:Q:76:MET:N	6:Q:76:MET:SD	2.85	0.49
2:A0:202:ASP:CG	2:A0:480:ARG:HE	2.19	0.49
2:A1:210:VAL:O	2:A1:227:ARG:HA	2.13	0.49
2:A2:689:VAL:HG22	2:A2:702:THR:HG23	1.95	0.49
2:A3:489:PHE:O	2:A3:703:MET:HA	2.13	0.49
2:A5:377:ASP:OD1	2:A5:381:ALA:N	2.45	0.49
2:A6:310:THR:O	2:A6:464:ASN:ND2	2.44	0.49
2:Ar:492:PRO:HD3	2:Aw:471:HIS:ND1	2.27	0.49
2:As:365:ASP:CG	2:As:401:GLU:HG2	2.37	0.49
2:As:740:ASN:HB3	2:Au:734:LYS:HZ1	1.78	0.49
2:At:319:LEU:HA	2:At:456:LEU:HD23	1.95	0.49
2:Au:205:PHE:O	2:Au:476:MET:HA	2.12	0.49
2:BA:167:MET:SD	2:BE:342:SER:HA	2.53	0.49
2:BA:333:LYS:HD3	2:BA:384:GLU:HB3	1.94	0.49
2:BA:495:LEU:HD21	2:BA:698:VAL:HG12	1.93	0.49
2:BB:247:LEU:HD21	2:BB:460:ARG:HB2	1.92	0.49
2:BB:362:LEU:HB2	2:BD:164:LEU:CB	2.39	0.49
2:BD:180:ARG:HA	2:BD:512:ASN:HB3	1.94	0.49
2:BF:464:ASN:OD1	2:BF:464:ASN:N	2.44	0.49
2:BF:496:ASP:OD1	2:BF:496:ASP:N	2.45	0.49
2:BG:266:ILE:HG22	2:BG:267:VAL:HG23	1.93	0.49
2:BH:319:LEU:HD12	2:BH:455:GLU:O	2.12	0.49
5:O:38:MET:HG3	5:O:61:ILE:HD11	1.93	0.49
2:A1:735:LEU:HB2	2:Az:737:VAL:HG22	1.95	0.49
2:A2:314:ASP:OD1	2:A2:315:ALA:N	2.43	0.49
2:A9:347:ASN:HB3	2:A9:364:PHE:CE1	2.47	0.49
2:As:319:LEU:HD12	2:As:455:GLU:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:At:377:ASP:OD1	2:At:381:ALA:N	2.46	0.49
2:At:436:LYS:HA	2:At:441:LYS:HE3	1.94	0.49
2:Av:322:ILE:HA	2:Av:454:TYR:HA	1.94	0.49
2:Aw:530:LEU:HD22	2:Aw:558:PHE:HB2	1.93	0.49
2:Ax:535:THR:HG21	2:Ax:556:PRO:HB2	1.94	0.49
2:Az:561:ILE:O	2:Az:720:ILE:HA	2.13	0.49
2:BA:176:VAL:HG22	2:BF:231:LEU:HA	1.93	0.49
2:BA:666:ARG:NH1	2:BA:668:ILE:HD11	2.27	0.49
2:BB:362:LEU:HB3	2:BB:404:GLY:CA	2.43	0.49
2:BB:364:PHE:O	2:BB:401:GLU:HA	2.12	0.49
2:BC:480:ARG:HG3	2:BD:169:PRO:N	2.28	0.49
2:BE:204:SER:O	2:BF:172:VAL:N	2.40	0.49
2:BF:231:LEU:HD11	2:BF:234:PHE:CD2	2.46	0.49
2:BF:273:GLU:HA	2:BF:277:VAL:O	2.13	0.49
2:A1:314:ASP:N	2:A1:459:ARG:O	2.24	0.49
2:A1:351:LYS:CA	2:A3:165:ARG:O	2.61	0.49
2:A2:319:LEU:HD12	2:A2:455:GLU:O	2.13	0.49
2:A5:480:ARG:HB3	2:BC:354:GLU:CG	2.42	0.49
2:A6:658:ASP:OD1	2:A6:658:ASP:N	2.45	0.49
2:A7:365:ASP:CG	2:A7:401:GLU:HG2	2.37	0.49
2:A9:362:LEU:O	2:A9:404:GLY:N	2.43	0.49
2:A9:427:ASP:OD1	2:A9:428:GLN:N	2.39	0.49
2:Ar:693:THR:HA	2:Ar:698:VAL:HA	1.93	0.49
2:As:560:GLU:HG3	2:As:719:LEU:HB3	1.93	0.49
2:At:291:ASP:HB2	2:BA:222:PRO:HA	1.93	0.49
2:Av:637:PHE:CZ	2:Aw:632:GLN:HB2	2.48	0.49
2:Ax:658:ASP:N	2:Ax:658:ASP:OD1	2.46	0.49
2:BA:161:GLN:HG2	2:BE:292:MET:HG3	1.94	0.49
2:BB:411:ALA:CB	2:BD:159:TYR:HB3	2.42	0.49
2:BB:464:ASN:N	2:BB:464:ASN:OD1	2.46	0.49
2:BD:237:ASN:HA	2:BE:517:ASN:ND2	2.28	0.49
2:BE:472:LEU:HB2	2:BF:491:ILE:HD11	1.95	0.49
2:BH:530:LEU:HD22	2:BH:558:PHE:HB2	1.95	0.49
5:O:3:ILE:HG21	5:O:71:VAL:HG21	1.95	0.49
8:a:71:LEU:HB3	8:a:75:PHE:HE2	1.77	0.49
2:A0:480:ARG:HD2	2:A9:350:GLN:NE2	2.28	0.49
2:A1:225:TRP:CZ2	2:A5:159:TYR:HE2	2.31	0.49
2:A1:658:ASP:N	2:A1:658:ASP:OD1	2.45	0.49
2:A2:230:LEU:HD22	2:A3:506:VAL:HG13	1.95	0.49
2:A2:358:ARG:HD2	2:A2:408:VAL:HB	1.94	0.49
2:A6:314:ASP:HA	2:A8:162:LYS:NZ	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A9:322:ILE:HA	2:A9:454:TYR:HA	1.93	0.49
2:A9:694:ARG:HB2	2:A9:697:GLN:CG	2.43	0.49
2:Ar:162:LYS:HE3	2:Av:461:ASN:ND2	2.27	0.49
2:As:464:ASN:N	2:As:464:ASN:OD1	2.46	0.49
2:At:236:TYR:HB2	2:At:239:VAL:HG23	1.95	0.49
2:Au:686:LEU:O	2:Au:704:VAL:HA	2.13	0.49
2:Ay:479:GLU:OE2	2:Ay:551:ARG:NH2	2.46	0.49
2:Az:373:GLU:HB2	2:Az:390:ILE:HG23	1.94	0.49
2:BA:162:LYS:HE3	2:BE:247:LEU:H	1.78	0.49
2:BA:165:ARG:HE	2:BE:362:LEU:HD21	1.78	0.49
2:BA:618:ARG:NH1	6:Q:22:ARG:HH12	2.10	0.49
2:BA:701:GLU:OE1	2:BF:468:ARG:HG3	2.13	0.49
2:BB:190:ASN:O	2:BB:680:PHE:N	2.35	0.49
2:BC:623:THR:OG1	2:BC:624:ASP:N	2.45	0.49
2:BD:651:ASN:HD22	2:BD:653:ASN:HB2	1.77	0.49
2:BE:202:ASP:O	2:BF:170:TYR:N	2.45	0.49
2:BG:658:ASP:N	2:BG:658:ASP:OD1	2.46	0.49
8:a:59:ARG:NH2	8:a:202:LYS:HE3	2.27	0.49
2:A0:493:ARG:HD2	2:A0:497:TRP:CD2	2.48	0.49
2:A2:241:SER:O	2:A2:470:LYS:HE3	2.11	0.49
2:A5:559:GLU:O	2:A5:718:GLY:HA2	2.12	0.49
2:A5:658:ASP:OD1	2:A5:658:ASP:N	2.46	0.49
2:A9:260:TYR:CD1	2:A9:290:ILE:HG12	2.48	0.49
2:Ar:230:LEU:HD23	2:As:176:VAL:HB	1.93	0.49
2:As:489:PHE:O	2:As:703:MET:HA	2.13	0.49
2:Av:559:GLU:CD	2:Av:595:ARG:HH12	2.20	0.49
2:Ay:624:ASP:HB3	2:Ay:656:LEU:O	2.12	0.49
2:BB:346:THR:C	2:BD:167:MET:HE2	2.37	0.49
2:BD:358:ARG:HD2	2:BD:408:VAL:HB	1.94	0.49
2:BD:464:ASN:OD1	2:BD:464:ASN:N	2.45	0.49
2:BE:323:LEU:HB3	2:BE:453:GLY:N	2.28	0.49
2:BE:695:ASN:OD1	2:BE:695:ASN:N	2.43	0.49
2:BG:464:ASN:N	2:BG:464:ASN:OD1	2.45	0.49
5:O:140:ALA:HB3	5:P:33:ILE:HD12	1.95	0.49
2:A0:351:LYS:HD2	2:A0:359:LYS:O	2.12	0.49
2:A0:482:ALA:O	2:A0:709:ARG:HD2	2.12	0.49
2:A3:266:ILE:HG22	2:A3:267:VAL:HG23	1.94	0.49
2:A6:319:LEU:HA	2:A6:456:LEU:HD23	1.95	0.49
2:A6:565:LEU:HD12	2:A6:725:LEU:HA	1.93	0.49
2:A8:293:ILE:HD12	2:As:216:ARG:NH2	2.28	0.49
2:A9:314:ASP:N	2:A9:459:ARG:O	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ar:200:GLY:N	2:As:167:MET:HG2	2.27	0.49
2:Ar:490:SER:O	2:Aw:471:HIS:ND1	2.45	0.49
2:As:252:ARG:NH2	2:BH:218:ALA:O	2.44	0.49
2:At:574:THR:H	2:At:577:ARG:NH1	2.11	0.49
2:Ay:201:TYR:N	2:Ay:481:TYR:O	2.45	0.49
2:Ay:322:ILE:CG1	2:Ay:339:PHE:HB2	2.42	0.49
2:Ay:407:ASN:OD1	2:Ay:408:VAL:N	2.46	0.49
2:BA:266:ILE:HG22	2:BA:267:VAL:HG23	1.95	0.49
2:BA:529:ALA:O	2:BA:533:VAL:HG23	2.13	0.49
2:BB:367:HIS:CE1	2:BC:545:GLN:HE22	2.31	0.49
2:BC:317:ILE:HD12	2:BE:164:LEU:HD22	1.95	0.49
2:BD:559:GLU:CD	2:BD:595:ARG:HH12	2.16	0.49
2:BG:535:THR:HG21	2:BG:556:PRO:HB2	1.95	0.49
3:Ck:437:GLU:HG2	3:Ck:441:HIS:CE1	2.48	0.49
2:A1:179:SER:O	2:A1:512:ASN:HB3	2.12	0.49
2:A1:406:SER:OG	2:A1:412:GLY:O	2.16	0.49
2:A4:350:GLN:HG3	2:Ay:480:ARG:HH11	1.77	0.49
2:A4:398:LEU:HD23	2:A4:422:LEU:HA	1.94	0.49
2:A9:361:THR:HA	2:A9:405:SER:HA	1.94	0.49
2:At:272:ILE:O	2:At:279:TYR:N	2.33	0.49
2:Az:398:LEU:HD23	2:Az:422:LEU:HA	1.95	0.49
2:BC:408:VAL:HG13	2:BE:162:LYS:O	2.12	0.49
2:BD:737:VAL:HG22	2:BE:735:LEU:CD1	2.43	0.49
2:BF:328:SER:HA	2:BF:446:ASP:O	2.12	0.49
2:BG:377:ASP:OD1	2:BG:381:ALA:N	2.45	0.49
3:Ck:136:VAL:HG13	3:Ck:403:PHE:CE1	2.47	0.49
3:Ck:356:ASN:OD1	5:P:127:PRO:HD3	2.13	0.49
4:G:157:TYR:O	4:G:161:MET:HG2	2.13	0.49
8:a:239:ILE:O	8:a:243:ILE:HG12	2.13	0.49
2:A0:559:GLU:OE1	2:A0:595:ARG:NH1	2.43	0.48
2:A3:360:MET:HE2	2:Ay:164:LEU:HB3	1.95	0.48
2:A3:398:LEU:HD23	2:A3:422:LEU:HA	1.95	0.48
2:A5:407:ASN:OD1	2:A5:408:VAL:N	2.46	0.48
2:A7:333:LYS:HD3	2:A7:384:GLU:HB3	1.95	0.48
2:A7:490:SER:HA	2:A7:702:THR:O	2.13	0.48
2:A7:587:ASN:OD1	2:A8:578:ARG:NH2	2.44	0.48
2:At:219:ASP:OD1	2:At:220:GLY:N	2.46	0.48
2:At:658:ASP:HB3	2:At:722:VAL:HG23	1.94	0.48
2:Au:247:LEU:HD21	2:Au:460:ARG:HB2	1.94	0.48
2:Av:205:PHE:O	2:Av:476:MET:HA	2.13	0.48
2:Av:658:ASP:OD1	2:Av:658:ASP:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ay:295:ILE:HG12	2:BE:220:GLY:HA2	1.94	0.48
2:Ay:658:ASP:OD1	2:Ay:658:ASP:N	2.45	0.48
2:BA:237:ASN:HA	2:BB:517:ASN:ND2	2.28	0.48
2:BB:241:SER:O	2:BB:470:LYS:HE3	2.13	0.48
2:BB:321:LYS:HD2	2:BB:455:GLU:OE1	2.13	0.48
2:BD:488:PRO:HB3	2:BD:705:GLN:HB2	1.95	0.48
2:BE:304:ASN:CG	2:BF:694:ARG:HD2	2.38	0.48
2:BF:319:LEU:HA	2:BF:456:LEU:HD23	1.95	0.48
7:R:49:ASP:O	7:R:53:GLU:HG3	2.13	0.48
2:A0:350:GLN:HB3	2:BC:353:LEU:CD1	2.43	0.48
2:A2:247:LEU:HD21	2:A2:460:ARG:HB2	1.95	0.48
2:A2:273:GLU:HA	2:A2:277:VAL:O	2.13	0.48
2:A3:366:THR:OG1	2:A4:545:GLN:OE1	2.19	0.48
2:A5:336:TYR:O	2:A5:378:VAL:HG23	2.12	0.48
2:Ar:165:ARG:HH12	2:Av:353:LEU:HD23	1.78	0.48
2:As:637:PHE:CZ	2:Ax:632:GLN:HB2	2.48	0.48
2:Au:322:ILE:HG13	2:Au:339:PHE:HB2	1.94	0.48
2:Av:409:GLU:HG2	2:Av:410:LYS:HG3	1.95	0.48
2:Aw:687:VAL:HG22	2:Aw:704:VAL:HG22	1.95	0.48
2:Ax:270:ARG:HE	2:Ax:281:THR:HG23	1.77	0.48
2:Ay:202:ASP:O	2:Az:170:TYR:N	2.46	0.48
2:BC:358:ARG:HD2	2:BC:408:VAL:CG1	2.43	0.48
2:BE:270:ARG:O	2:BE:280:LYS:HA	2.14	0.48
2:BE:561:ILE:HG21	2:BF:726:ARG:HH22	1.78	0.48
2:BH:427:ASP:OD1	2:BH:428:GLN:N	2.37	0.48
4:G:132:TRP:HA	4:G:140:PHE:CE2	2.48	0.48
4:G:133:LYS:NZ	4:G:175:ASP:OD1	2.29	0.48
5:O:95:HIS:C	5:P:36:TYR:HH	2.17	0.48
2:A0:697:GLN:NE2	2:Ar:308:ASP:OD2	2.46	0.48
2:A1:289:LEU:HA	2:A1:413:LEU:O	2.13	0.48
2:A4:313:LEU:CA	2:A4:461:ASN:H	2.25	0.48
2:A5:161:GLN:HA	2:A9:408:VAL:CG1	2.42	0.48
2:A6:205:PHE:O	2:A6:476:MET:HA	2.13	0.48
2:A6:319:LEU:HD12	2:A6:455:GLU:O	2.12	0.48
2:A8:322:ILE:HG13	2:A8:339:PHE:HB2	1.93	0.48
2:A9:535:THR:O	2:A9:539:ARG:HB2	2.13	0.48
2:A9:565:LEU:HD12	2:A9:725:LEU:HA	1.95	0.48
2:A9:687:VAL:HG22	2:A9:704:VAL:HG22	1.95	0.48
2:Ar:493:ARG:HD2	2:Ar:497:TRP:CG	2.48	0.48
2:As:377:ASP:OD1	2:As:381:ALA:N	2.47	0.48
2:At:238:ASP:OD1	2:At:238:ASP:N	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Au:298:ASP:OD2	2:Au:300:SER:OG	2.20	0.48
2:Aw:211:PHE:CE1	2:Aw:473:ASP:HB2	2.48	0.48
2:Ax:462:ASN:ND2	2:Ax:467:GLU:O	2.46	0.48
2:Ax:689:VAL:HG22	2:Ax:702:THR:HG23	1.94	0.48
2:Ay:299:ASP:HA	2:Ay:302:LEU:HD12	1.96	0.48
2:Ay:321:LYS:O	2:Ay:455:GLU:N	2.46	0.48
2:BA:159:TYR:OH	2:BE:290:ILE:HD13	2.14	0.48
2:BB:293:ILE:HG13	2:BD:160:ASP:OD2	2.14	0.48
2:BD:319:LEU:HD12	2:BD:455:GLU:O	2.13	0.48
2:BE:561:ILE:O	2:BE:720:ILE:HA	2.13	0.48
2:BE:586:MET:O	2:BE:590:ARG:HG3	2.13	0.48
2:BG:179:SER:O	2:BG:512:ASN:HB3	2.12	0.48
2:BH:561:ILE:O	2:BH:720:ILE:HA	2.14	0.48
3:Ck:199:THR:OG1	3:Ck:202:ASP:OD1	2.29	0.48
5:P:101:GLU:OE1	5:P:102:THR:N	2.46	0.48
2:A1:294:GLY:C	2:Ar:220:GLY:HA2	2.37	0.48
2:A2:464:ASN:N	2:A2:464:ASN:OD1	2.44	0.48
2:A4:204:SER:O	2:Ay:171:SER:HA	2.13	0.48
2:A4:322:ILE:HA	2:A4:454:TYR:HA	1.96	0.48
2:A6:266:ILE:HG22	2:A6:267:VAL:HG23	1.96	0.48
2:A7:319:LEU:HD12	2:A7:455:GLU:O	2.13	0.48
2:A7:349:PHE:HB3	2:A7:360:MET:HB3	1.94	0.48
2:A8:251:TYR:N	2:A8:280:LYS:O	2.40	0.48
2:A8:535:THR:HG21	2:A8:556:PRO:HB2	1.94	0.48
2:A9:658:ASP:OD1	2:A9:658:ASP:N	2.46	0.48
2:As:358:ARG:HH21	2:Au:161:GLN:C	2.22	0.48
2:Au:314:ASP:OD1	2:Au:315:ALA:N	2.42	0.48
2:Av:161:GLN:HB3	2:Ax:358:ARG:HE	1.78	0.48
2:Av:489:PHE:O	2:Av:703:MET:HA	2.14	0.48
2:Ay:486:LEU:O	2:Ay:705:GLN:HG3	2.13	0.48
2:BA:181:LEU:HD21	2:BA:515:PHE:HB3	1.95	0.48
2:BA:587:ASN:HB3	2:BB:729:TYR:CE2	2.47	0.48
2:BA:667:GLY:H	6:Q:22:ARG:NH1	2.11	0.48
2:BB:368:SER:CB	2:BC:545:GLN:HB2	2.43	0.48
2:BB:694:ARG:HB2	2:BB:697:GLN:CG	2.43	0.48
2:BD:470:LYS:HB2	2:BE:489:PHE:HD2	1.79	0.48
2:BF:310:THR:C	2:BF:464:ASN:HD21	2.19	0.48
2:BF:489:PHE:O	2:BF:703:MET:HA	2.13	0.48
3:Ck:214:ILE:HG13	3:Ck:337:TRP:HZ2	1.78	0.48
3:Ck:844:ASP:OD1	3:Ck:844:ASP:N	2.44	0.48
4:G:97:SER:HA	4:G:100:ARG:NH1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:77:ASP:OD1	1:B:77:ASP:N	2.44	0.48
2:A1:487:ALA:HB1	2:Az:244:VAL:HG22	1.96	0.48
2:A1:682:TYR:OH	2:A1:684:PRO:HA	2.13	0.48
2:A2:623:THR:OG1	2:A2:624:ASP:N	2.46	0.48
2:A5:486:LEU:HD12	2:A5:706:PRO:HG2	1.94	0.48
2:A6:336:TYR:O	2:A6:378:VAL:HG23	2.14	0.48
2:A6:350:GLN:N	2:A6:361:THR:O	2.37	0.48
2:A6:373:GLU:HB2	2:A6:390:ILE:HG23	1.96	0.48
2:A9:559:GLU:CD	2:A9:595:ARG:HH12	2.22	0.48
2:Ay:319:LEU:HD12	2:Ay:455:GLU:O	2.14	0.48
2:Az:505:ASP:O	2:Az:509:GLN:HG2	2.14	0.48
2:BB:250:ILE:HD12	2:BB:297:GLU:H	1.78	0.48
2:BB:260:TYR:HD1	2:BB:290:ILE:HG12	1.76	0.48
2:BB:360:MET:HB2	2:BB:406:SER:HB3	1.96	0.48
2:BB:471:HIS:ND1	2:BC:492:PRO:HD3	2.29	0.48
2:BC:364:PHE:O	2:BC:402:VAL:N	2.28	0.48
2:BE:272:ILE:O	2:BE:279:TYR:N	2.30	0.48
2:BG:319:LEU:HD12	2:BG:455:GLU:O	2.13	0.48
2:BG:336:TYR:O	2:BG:378:VAL:HG23	2.12	0.48
2:BH:336:TYR:O	2:BH:378:VAL:HG23	2.14	0.48
2:A0:203:VAL:O	2:A0:479:GLU:N	2.34	0.48
2:A0:560:GLU:HG3	2:A0:719:LEU:HB3	1.95	0.48
2:A2:208:PRO:HA	2:A2:474:PHE:HA	1.96	0.48
2:A2:216:ARG:NE	2:As:158:SER:HB2	2.29	0.48
2:A4:658:ASP:N	2:A4:658:ASP:OD1	2.46	0.48
2:A5:319:LEU:HD12	2:A5:455:GLU:O	2.13	0.48
2:A5:577:ARG:HH12	2:A5:732:ASN:HA	1.78	0.48
2:A7:468:ARG:NH1	2:A8:694:ARG:HG3	2.28	0.48
2:A8:314:ASP:OD1	2:A8:315:ALA:N	2.43	0.48
2:A9:364:PHE:N	2:A9:402:VAL:O	2.37	0.48
2:A9:373:GLU:HB2	2:A9:390:ILE:HG23	1.96	0.48
2:A9:560:GLU:HG3	2:A9:719:LEU:HB3	1.95	0.48
2:At:561:ILE:O	2:At:720:ILE:HA	2.14	0.48
2:Ax:235:MET:HE1	2:Ax:601:GLY:HA2	1.96	0.48
2:Ax:493:ARG:HD2	2:Ax:497:TRP:CD2	2.49	0.48
2:Ay:305:GLY:H	2:BF:696:GLY:H	1.57	0.48
2:BA:168:MET:HB3	2:BF:481:TYR:HA	1.94	0.48
2:BA:242:ASN:ND2	2:BB:488:PRO:O	2.46	0.48
2:BB:211:PHE:CE1	2:BB:473:ASP:HB2	2.48	0.48
2:BD:489:PHE:HB3	2:BD:507:LEU:HD22	1.95	0.48
2:BE:493:ARG:HD2	2:BE:497:TRP:CD2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BE:694:ARG:HB2	2:BE:697:GLN:HG3	1.95	0.48
2:BF:688:SER:OG	2:BF:703:MET:HB3	2.13	0.48
2:BH:535:THR:O	2:BH:539:ARG:HB2	2.13	0.48
2:A0:537:ARG:HH21	2:A9:428:GLN:HA	1.79	0.48
2:A1:410:LYS:HA	2:A3:159:TYR:CE1	2.48	0.48
2:A1:535:THR:HG21	2:A1:556:PRO:HB2	1.94	0.48
2:A2:691:GLN:HA	2:A2:700:LYS:HA	1.95	0.48
2:A3:200:GLY:HA3	2:A3:481:TYR:O	2.13	0.48
2:A3:680:PHE:CZ	2:A3:708:CYS:HB2	2.49	0.48
2:A4:307:SER:HB3	2:Az:158:SER:N	2.27	0.48
2:A4:349:PHE:HB3	2:Az:165:ARG:HG2	1.94	0.48
2:A5:687:VAL:HG22	2:A5:704:VAL:HG22	1.95	0.48
2:A7:201:TYR:OH	2:A8:168:MET:SD	2.66	0.48
2:A8:160:ASP:OD1	2:A8:161:GLN:N	2.47	0.48
2:Av:464:ASN:N	2:Av:464:ASN:OD1	2.47	0.48
2:Av:694:ARG:HB2	2:Av:697:GLN:HG3	1.96	0.48
2:Aw:306:TYR:CE2	2:Aw:308:ASP:HB3	2.48	0.48
2:Aw:435:ARG:HA	2:Aw:440:PHE:CD2	2.49	0.48
2:Ax:179:SER:O	2:Ax:512:ASN:HB3	2.14	0.48
2:Ax:687:VAL:HG22	2:Ax:704:VAL:HG22	1.94	0.48
2:Ay:273:GLU:HA	2:Ay:277:VAL:O	2.13	0.48
2:Ay:322:ILE:HG13	2:Ay:339:PHE:HB2	1.96	0.48
2:Az:179:SER:O	2:Az:512:ASN:HB3	2.13	0.48
2:BA:612:ASN:ND2	6:Q:19:ARG:O	2.46	0.48
2:BC:320:THR:HA	2:BC:342:SER:HB3	1.94	0.48
2:BC:480:ARG:HE	2:BD:169:PRO:HB3	1.79	0.48
2:BD:205:PHE:O	2:BD:476:MET:HG3	2.14	0.48
2:BH:680:PHE:CZ	2:BH:708:CYS:HB2	2.49	0.48
3:Ck:449:ASP:OD1	3:Ck:449:ASP:N	2.41	0.48
5:O:69:ASN:HA	5:O:72:LEU:O	2.13	0.48
5:P:3:ILE:HB	5:P:71:VAL:HG21	1.94	0.48
2:A1:623:THR:OG1	2:A1:624:ASP:N	2.47	0.48
2:A4:202:ASP:O	2:Ay:169:PRO:HA	2.14	0.48
2:A4:298:ASP:OD2	2:A4:300:SER:OG	2.26	0.48
2:A5:322:ILE:HA	2:A5:454:TYR:HA	1.94	0.48
2:A5:322:ILE:HG13	2:A5:339:PHE:HB2	1.95	0.48
2:A5:737:VAL:HA	2:A6:735:LEU:H	1.79	0.48
2:A6:468:ARG:NH1	2:A7:694:ARG:HG3	2.29	0.48
2:A7:535:THR:O	2:A7:539:ARG:HB2	2.14	0.48
2:A7:624:ASP:HB3	2:A7:656:LEU:O	2.13	0.48
2:A8:306:TYR:H	2:Ax:695:ASN:HB2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:As:203:VAL:O	2:As:478:GLN:HA	2.14	0.48
2:Au:428:GLN:HA	2:Av:537:ARG:NH2	2.28	0.48
2:Ax:205:PHE:O	2:Ax:476:MET:HA	2.13	0.48
2:Ay:306:TYR:HD1	2:BF:694:ARG:CB	2.27	0.48
2:Ay:493:ARG:HD2	2:Ay:497:TRP:CD2	2.49	0.48
2:Ay:680:PHE:CZ	2:Ay:708:CYS:HB2	2.49	0.48
2:Ay:687:VAL:HG22	2:Ay:704:VAL:HG22	1.96	0.48
2:Az:319:LEU:HD12	2:Az:455:GLU:O	2.13	0.48
2:BC:480:ARG:CG	2:BD:167:MET:HB2	2.20	0.48
2:BD:333:LYS:HD3	2:BD:384:GLU:HB3	1.95	0.48
2:BG:180:ARG:HG3	2:BG:515:PHE:CD2	2.49	0.48
2:BH:184:MET:HE3	2:BH:519:MET:HE1	1.94	0.48
2:A2:298:ASP:OD2	2:A2:300:SER:OG	2.23	0.48
2:A8:205:PHE:O	2:A8:476:MET:HA	2.13	0.48
2:Ar:468:ARG:HH12	2:As:694:ARG:HG3	1.78	0.48
2:At:307:SER:HB2	2:BA:216:ARG:HB2	1.94	0.48
2:At:503:ASP:O	2:At:507:LEU:HG	2.14	0.48
2:At:565:LEU:O	2:At:569:VAL:HG23	2.14	0.48
2:Av:737:VAL:HG22	2:Aw:735:LEU:HB2	1.95	0.48
2:Aw:210:VAL:O	2:Aw:227:ARG:HA	2.13	0.48
2:Ay:398:LEU:HD23	2:Ay:422:LEU:HA	1.95	0.48
2:BA:358:ARG:HH21	2:BC:161:GLN:HA	1.79	0.48
2:BB:411:ALA:HB1	2:BD:159:TYR:C	2.39	0.48
2:BC:205:PHE:HD2	2:BD:172:VAL:HA	1.77	0.48
2:BC:357:PHE:CE2	2:BC:358:ARG:HG2	2.49	0.48
2:BC:561:ILE:O	2:BC:720:ILE:HA	2.14	0.48
2:BC:689:VAL:HG22	2:BC:702:THR:HG23	1.96	0.48
2:BC:738:GLN:N	2:BD:734:LYS:HD3	2.28	0.48
2:BE:370:PHE:HA	2:BE:396:ALA:O	2.13	0.48
2:BG:691:GLN:HA	2:BG:700:LYS:HA	1.96	0.48
5:O:42:ALA:CB	5:P:40:VAL:HB	2.44	0.48
8:a:63:VAL:HG12	8:a:64:TYR:H	1.77	0.48
2:A1:398:LEU:HD23	2:A1:422:LEU:HA	1.95	0.48
2:A3:490:SER:HA	2:A3:702:THR:O	2.14	0.48
2:A7:328:SER:HA	2:A7:446:ASP:O	2.14	0.48
2:A7:561:ILE:O	2:A7:720:ILE:HA	2.14	0.48
2:A8:247:LEU:HD21	2:A8:460:ARG:HB2	1.95	0.48
2:As:164:LEU:HD22	2:Aw:360:MET:HE3	1.96	0.48
2:At:209:LEU:N	2:At:473:ASP:O	2.42	0.48
2:At:331:HIS:CE1	2:At:387:GLN:HB3	2.49	0.48
2:Aw:247:LEU:HD12	2:Aw:458:ILE:HG22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Aw:565:LEU:HD12	2:Aw:725:LEU:HA	1.95	0.48
2:Ax:241:SER:O	2:Ax:470:LYS:HE3	2.14	0.48
2:BA:173:VAL:HG13	2:BF:207:ARG:HG2	1.96	0.48
2:BA:672:PRO:HB3	2:BA:679:MET:SD	2.54	0.48
2:BB:205:PHE:O	2:BB:476:MET:HA	2.14	0.48
2:BC:313:LEU:HG	2:BE:160:ASP:OD2	2.14	0.48
2:BD:322:ILE:CG1	2:BD:339:PHE:HB2	2.44	0.48
2:BE:565:LEU:HD12	2:BE:725:LEU:HA	1.94	0.48
2:BE:694:ARG:HB2	2:BE:697:GLN:CG	2.43	0.48
2:BG:560:GLU:HG3	2:BG:719:LEU:HB3	1.95	0.48
2:BH:247:LEU:HD21	2:BH:460:ARG:HB2	1.94	0.48
5:P:17:PHE:O	5:P:22:GLN:NE2	2.47	0.48
8:a:115:THR:C	8:a:118:PRO:HD2	2.39	0.48
2:A0:298:ASP:OD2	2:A0:300:SER:OG	2.22	0.47
2:A1:170:TYR:O	2:Az:203:VAL:HA	2.13	0.47
2:A2:482:ALA:O	2:A2:709:ARG:HD2	2.14	0.47
2:A3:565:LEU:HD12	2:A3:725:LEU:HA	1.95	0.47
2:A5:165:ARG:HD3	2:A9:350:GLN:O	2.14	0.47
2:A6:559:GLU:OE1	2:A6:595:ARG:NH1	2.46	0.47
2:A7:494:PRO:O	2:A7:700:LYS:HE2	2.14	0.47
2:As:205:PHE:O	2:As:476:MET:HA	2.14	0.47
2:Au:373:GLU:HB2	2:Au:390:ILE:HG23	1.95	0.47
2:Av:561:ILE:O	2:Av:720:ILE:HA	2.13	0.47
2:Ax:314:ASP:OD1	2:Ax:315:ALA:N	2.43	0.47
2:BB:657:ARG:O	2:BB:659:LYS:N	2.45	0.47
2:BC:535:THR:O	2:BC:539:ARG:HB2	2.14	0.47
2:BD:168:MET:CG	2:BD:169:PRO:HD2	2.44	0.47
2:BD:203:VAL:HG22	2:BE:170:TYR:O	2.13	0.47
2:BD:205:PHE:N	2:BD:476:MET:HG3	2.19	0.47
2:BE:310:THR:O	2:BE:464:ASN:ND2	2.40	0.47
2:BF:322:ILE:CG1	2:BF:339:PHE:HB2	2.44	0.47
2:BF:544:ILE:O	2:BF:551:ARG:HD2	2.14	0.47
2:BH:270:ARG:HE	2:BH:281:THR:HG23	1.79	0.47
6:Q:133:LEU:HA	6:Q:151:CYS:HA	1.94	0.47
2:A0:159:TYR:HB3	2:Ax:493:ARG:NH1	2.29	0.47
2:A1:364:PHE:N	2:A1:402:VAL:O	2.38	0.47
2:A1:373:GLU:OE1	2:A1:393:LYS:HG2	2.14	0.47
2:A3:205:PHE:O	2:A3:476:MET:HA	2.14	0.47
2:A3:530:LEU:HD22	2:A3:558:PHE:HB2	1.97	0.47
2:A7:623:THR:OG1	2:A7:624:ASP:N	2.47	0.47
2:Ar:314:ASP:OD1	2:Ar:315:ALA:N	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ar:561:ILE:O	2:Ar:720:ILE:HA	2.14	0.47
2:Au:469:GLY:HA3	2:Av:489:PHE:HA	1.95	0.47
2:Au:658:ASP:N	2:Au:658:ASP:OD1	2.46	0.47
2:Av:266:ILE:HG22	2:Av:267:VAL:HG23	1.96	0.47
2:Av:270:ARG:HE	2:Av:281:THR:HG23	1.79	0.47
2:Av:470:LYS:HB2	2:Aw:489:PHE:CD2	2.49	0.47
2:Aw:266:ILE:HG22	2:Aw:267:VAL:HG23	1.96	0.47
2:Aw:307:SER:HA	2:Aw:466:ARG:NH1	2.26	0.47
2:Aw:319:LEU:HD12	2:Aw:455:GLU:O	2.14	0.47
2:Ax:203:VAL:O	2:Ax:478:GLN:HA	2.14	0.47
2:Ax:694:ARG:HB2	2:Ax:697:GLN:CG	2.44	0.47
2:BB:307:SER:CB	2:BD:158:SER:HB3	2.44	0.47
2:BC:566:GLU:OE2	2:BC:727:LYS:HD3	2.14	0.47
2:BE:658:ASP:OD1	2:BE:658:ASP:N	2.47	0.47
2:BF:351:LYS:HG3	2:BF:352:SER:O	2.14	0.47
2:BF:529:ALA:O	2:BF:533:VAL:HG23	2.13	0.47
2:BG:693:THR:HA	2:BG:698:VAL:HA	1.96	0.47
2:BH:493:ARG:HD2	2:BH:497:TRP:CD2	2.49	0.47
2:BH:559:GLU:OE1	2:BH:595:ARG:NH1	2.45	0.47
5:O:97:PRO:HD3	5:P:36:TYR:CZ	2.50	0.47
2:A1:158:SER:N	2:BF:497:TRP:CD1	2.82	0.47
2:A1:211:PHE:CE1	2:A1:473:ASP:HB2	2.50	0.47
2:A3:505:ASP:O	2:A3:509:GLN:HG2	2.14	0.47
2:A4:361:THR:O	2:Az:165:ARG:HD2	2.14	0.47
2:A4:483:ILE:HD11	2:A4:681:LEU:HB3	1.97	0.47
2:A4:623:THR:OG1	2:A4:624:ASP:N	2.47	0.47
2:A6:586:MET:O	2:A6:590:ARG:HG3	2.14	0.47
2:A7:428:GLN:HA	2:A8:537:ARG:NH2	2.26	0.47
2:A7:489:PHE:O	2:A7:703:MET:HA	2.14	0.47
2:As:165:ARG:HH12	2:Aw:353:LEU:HD21	1.79	0.47
2:Au:740:ASN:HB3	2:Av:737:VAL:O	2.14	0.47
2:Av:244:VAL:HG22	2:Aw:487:ALA:HB1	1.95	0.47
2:Ax:561:ILE:O	2:Ax:720:ILE:HA	2.14	0.47
2:Ay:489:PHE:CB	2:Ay:507:LEU:HD22	2.44	0.47
2:Az:190:ASN:O	2:Az:680:PHE:N	2.41	0.47
2:BB:283:TYR:HD2	2:BB:454:TYR:O	1.97	0.47
2:BD:204:SER:N	2:BE:171:SER:HB2	2.25	0.47
2:BE:373:GLU:CA	2:BE:390:ILE:HG12	2.37	0.47
2:BH:241:SER:O	2:BH:470:LYS:HE3	2.14	0.47
6:Q:111:THR:HB	6:Q:151:CYS:SG	2.54	0.47
7:R:9:LEU:O	7:R:25:LYS:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:319:LEU:HD12	2:A0:455:GLU:O	2.14	0.47
2:A1:697:GLN:HB3	2:BD:466:ARG:HH21	1.80	0.47
2:A5:489:PHE:O	2:A5:703:MET:HA	2.14	0.47
2:A5:672:PRO:HB3	2:A5:679:MET:SD	2.55	0.47
2:A5:697:GLN:OE1	2:Az:308:ASP:OD2	2.31	0.47
2:A6:360:MET:CE	2:A8:164:LEU:HD22	2.44	0.47
2:A6:365:ASP:CG	2:A6:401:GLU:HG2	2.40	0.47
2:A6:497:TRP:NE1	2:A6:499:GLU:O	2.45	0.47
2:A9:559:GLU:O	2:A9:718:GLY:HA2	2.15	0.47
2:Ar:358:ARG:HD3	2:Ar:358:ARG:HA	1.80	0.47
2:As:658:ASP:OD1	2:As:658:ASP:N	2.47	0.47
2:Au:368:SER:HB2	2:Av:544:ILE:HG23	1.96	0.47
2:Ay:410:LYS:HG2	2:BE:225:TRP:CD2	2.49	0.47
2:Az:586:MET:O	2:Az:590:ARG:HG3	2.14	0.47
2:Az:694:ARG:HB2	2:Az:697:GLN:CG	2.43	0.47
2:BC:205:PHE:HB3	2:BD:171:SER:C	2.39	0.47
2:BD:200:GLY:HA3	2:BE:168:MET:HG3	1.95	0.47
2:BD:469:GLY:HA3	2:BE:489:PHE:HA	1.96	0.47
2:BD:577:ARG:HH12	2:BD:732:ASN:HA	1.80	0.47
2:BF:658:ASP:OD1	2:BF:658:ASP:N	2.45	0.47
2:BG:322:ILE:HG13	2:BG:339:PHE:HB2	1.96	0.47
2:BG:623:THR:OG1	2:BG:624:ASP:N	2.47	0.47
2:BH:689:VAL:HG22	2:BH:702:THR:HG23	1.97	0.47
3:Ck:859:ASP:HA	3:Ck:862:ARG:NH2	2.29	0.47
5:O:54:VAL:CG2	5:O:84:ARG:HH22	2.26	0.47
2:A0:209:LEU:HD13	2:A0:227:ARG:HB3	1.96	0.47
2:A2:203:VAL:N	2:A2:479:GLU:O	2.23	0.47
2:A4:190:ASN:O	2:A4:680:PHE:N	2.42	0.47
2:A5:470:LYS:HB2	2:A6:489:PHE:HD2	1.80	0.47
2:A7:319:LEU:HA	2:A7:456:LEU:HD23	1.95	0.47
2:A8:180:ARG:HA	2:A8:512:ASN:HB3	1.97	0.47
2:A8:505:ASP:O	2:A8:509:GLN:HG2	2.15	0.47
2:Ar:173:VAL:HA	2:Aw:206:ARG:HB3	1.95	0.47
2:At:558:PHE:HD1	2:At:717:LEU:HB3	1.78	0.47
2:Ay:230:LEU:HD22	2:Az:506:VAL:HG13	1.96	0.47
2:Az:207:ARG:O	2:Az:475:ASN:N	2.45	0.47
2:Az:491:ILE:HD12	2:Az:503:ASP:HB3	1.96	0.47
2:BB:298:ASP:OD2	2:BB:300:SER:OG	2.23	0.47
2:BE:661:PHE:CE1	2:BE:719:LEU:HD13	2.49	0.47
1:B:3:GLU:O	1:B:7:GLU:HG3	2.14	0.47
2:A1:291:ASP:OD2	2:Ar:216:ARG:NH1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:364:PHE:O	2:A1:402:VAL:N	2.33	0.47
2:A1:490:SER:HA	2:A1:702:THR:O	2.15	0.47
2:A3:695:ASN:ND2	2:Aw:306:TYR:CE1	2.82	0.47
2:A4:350:GLN:C	2:Az:165:ARG:O	2.58	0.47
2:A5:398:LEU:HD23	2:A5:422:LEU:HA	1.97	0.47
2:A5:692:VAL:N	2:A5:699:SER:O	2.39	0.47
2:A6:485:LEU:HG	2:A6:707:ARG:HG2	1.97	0.47
2:A7:273:GLU:HA	2:A7:277:VAL:O	2.15	0.47
2:A8:737:VAL:HG22	2:A9:735:LEU:HB2	1.96	0.47
2:A9:201:TYR:O	2:A9:480:ARG:HA	2.14	0.47
2:Ar:273:GLU:HA	2:Ar:277:VAL:O	2.14	0.47
2:Ar:694:ARG:HG3	2:Aw:468:ARG:NH1	2.30	0.47
2:As:204:SER:O	2:Ax:172:VAL:N	2.44	0.47
2:As:237:ASN:HA	2:Ax:517:ASN:ND2	2.29	0.47
2:At:504:LEU:O	2:At:508:ILE:HG13	2.14	0.47
2:Au:322:ILE:HA	2:Au:454:TYR:HA	1.97	0.47
2:Au:432:GLU:HB2	2:Av:540:GLN:NE2	2.26	0.47
2:Av:561:ILE:N	2:Av:719:LEU:O	2.38	0.47
2:Av:565:LEU:HD12	2:Av:725:LEU:HA	1.97	0.47
2:Aw:211:PHE:HE1	2:Aw:473:ASP:HB2	1.79	0.47
2:Ax:210:VAL:O	2:Ax:227:ARG:HA	2.14	0.47
2:Az:661:PHE:CE1	2:Az:719:LEU:HD13	2.49	0.47
2:BB:349:PHE:O	2:BD:163:GLU:HG3	2.14	0.47
2:BB:349:PHE:C	2:BD:166:ASP:N	2.72	0.47
2:BC:213:HIS:HB2	2:BC:471:HIS:NE2	2.29	0.47
2:BC:270:ARG:HE	2:BC:281:THR:HG23	1.79	0.47
2:BC:470:LYS:HB2	2:BD:489:PHE:HD2	1.80	0.47
2:BE:205:PHE:O	2:BE:476:MET:HA	2.15	0.47
2:BH:586:MET:O	2:BH:590:ARG:HG3	2.14	0.47
2:A0:350:GLN:CB	2:BC:353:LEU:HD12	2.43	0.47
2:A0:695:ASN:C	2:Ar:305:GLY:HA3	2.40	0.47
2:A1:203:VAL:O	2:A1:478:GLN:HA	2.15	0.47
2:A1:225:TRP:CE2	2:A5:159:TYR:HE2	2.33	0.47
2:A1:469:GLY:HA3	2:A2:489:PHE:HA	1.97	0.47
2:A2:216:ARG:HE	2:As:158:SER:HB2	1.80	0.47
2:A2:220:GLY:HA2	2:Aw:294:GLY:C	2.39	0.47
2:A2:658:ASP:N	2:A2:658:ASP:OD1	2.46	0.47
2:A3:549:PHE:CE2	2:A3:674:PRO:HG3	2.49	0.47
2:A3:687:VAL:HG22	2:A3:704:VAL:HG22	1.96	0.47
2:A4:179:SER:O	2:A4:512:ASN:HB3	2.15	0.47
2:A4:559:GLU:OE1	2:A4:595:ARG:NH1	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A5:165:ARG:HG2	2:A9:349:PHE:CD2	2.49	0.47
2:A5:464:ASN:N	2:A5:464:ASN:OD1	2.47	0.47
2:A6:312:ALA:O	2:A6:460:ARG:HG3	2.15	0.47
2:A6:333:LYS:HD3	2:A6:384:GLU:HB3	1.96	0.47
2:A6:694:ARG:HB2	2:A6:697:GLN:HG3	1.95	0.47
2:A7:468:ARG:HH12	2:A8:694:ARG:HG3	1.80	0.47
2:A9:266:ILE:HG22	2:A9:267:VAL:HG23	1.96	0.47
2:A9:312:ALA:O	2:A9:460:ARG:HG3	2.14	0.47
2:A9:586:MET:O	2:A9:590:ARG:HG3	2.15	0.47
2:Ar:241:SER:O	2:Ar:470:LYS:HE3	2.14	0.47
2:At:263:ASP:N	2:At:263:ASP:OD1	2.47	0.47
2:Au:319:LEU:HD12	2:Au:455:GLU:O	2.14	0.47
2:Au:322:ILE:CG1	2:Au:339:PHE:HB2	2.44	0.47
2:Au:338:PRO:HD3	2:Au:378:VAL:HG22	1.96	0.47
2:Au:473:ASP:OD1	2:Au:474:PHE:N	2.48	0.47
2:Av:505:ASP:O	2:Av:509:GLN:HG2	2.14	0.47
2:Aw:373:GLU:HB2	2:Aw:390:ILE:HG23	1.97	0.47
2:Az:205:PHE:O	2:Az:476:MET:HA	2.15	0.47
2:Az:435:ARG:HA	2:Az:440:PHE:CD2	2.48	0.47
2:Az:658:ASP:N	2:Az:658:ASP:OD1	2.46	0.47
2:BA:164:LEU:HD23	2:BE:455:GLU:C	2.39	0.47
2:BA:464:ASN:OD1	2:BA:464:ASN:N	2.46	0.47
2:BA:694:ARG:HH11	2:BF:304:ASN:ND2	2.02	0.47
2:BB:162:LYS:HZ2	2:BF:461:ASN:HB3	1.78	0.47
2:BB:317:ILE:HB	2:BB:349:PHE:CG	2.49	0.47
2:BB:472:LEU:HD13	2:BC:506:VAL:HG12	1.97	0.47
2:BB:658:ASP:OD1	2:BB:658:ASP:N	2.44	0.47
2:BC:273:GLU:HA	2:BC:277:VAL:O	2.15	0.47
2:BC:338:PRO:HD3	2:BC:378:VAL:HG22	1.97	0.47
2:BC:472:LEU:HB2	2:BD:491:ILE:HD11	1.97	0.47
2:BC:686:LEU:O	2:BC:704:VAL:HA	2.15	0.47
2:BE:465:ARG:NH1	2:BF:690:ALA:HB2	2.30	0.47
2:BE:486:LEU:HB2	2:BE:706:PRO:HG2	1.96	0.47
2:BF:488:PRO:HB3	2:BF:705:GLN:CB	2.38	0.47
2:BF:535:THR:HG21	2:BF:556:PRO:HB2	1.95	0.47
2:BG:168:MET:O	2:BH:202:ASP:N	2.41	0.47
3:Ck:780:PHE:HB2	3:Ck:787:THR:HG23	1.97	0.47
5:P:69:ASN:HA	5:P:72:LEU:O	2.15	0.47
5:P:92:ARG:O	5:P:96:GLU:N	2.45	0.47
7:R:72:GLU:O	7:R:75:SER:OG	2.22	0.47
7:R:109:GLN:HG2	7:R:169:MET:HE1	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a:224:GLN:HA	8:a:227:ASN:ND2	2.29	0.47
2:A0:211:PHE:CE1	2:A0:473:ASP:HB2	2.50	0.47
2:A0:623:THR:OG1	2:A0:624:ASP:N	2.47	0.47
2:A2:272:ILE:O	2:A2:279:TYR:N	2.32	0.47
2:A7:491:ILE:HD12	2:A7:503:ASP:HB3	1.96	0.47
2:A8:398:LEU:HD23	2:A8:422:LEU:HA	1.97	0.47
2:A8:672:PRO:HB3	2:A8:679:MET:SD	2.55	0.47
2:A9:216:ARG:HG3	2:Ar:307:SER:HB3	1.97	0.47
2:Ar:482:ALA:O	2:Ar:709:ARG:HD2	2.15	0.47
2:Ar:485:LEU:HD13	2:As:162:LYS:NZ	2.30	0.47
2:As:179:SER:O	2:As:512:ASN:HB3	2.15	0.47
2:Au:543:ASP:OD2	2:Ax:424:ARG:NH2	2.44	0.47
2:Ax:494:PRO:O	2:Ax:700:LYS:HE2	2.15	0.47
2:Ay:239:VAL:O	2:Ay:470:LYS:NZ	2.48	0.47
2:Ay:308:ASP:N	2:Ay:308:ASP:OD1	2.47	0.47
2:Ay:410:LYS:HG2	2:BE:225:TRP:CE3	2.49	0.47
2:Az:308:ASP:OD1	2:Az:308:ASP:N	2.44	0.47
2:Az:351:LYS:HD2	2:Az:359:LYS:O	2.15	0.47
2:BB:204:SER:N	2:BC:170:TYR:O	2.40	0.47
2:BB:411:ALA:HA	2:BD:161:GLN:CB	2.45	0.47
2:BC:360:MET:SD	2:BE:164:LEU:HB2	2.55	0.47
2:BC:373:GLU:HA	2:BC:390:ILE:HG12	1.95	0.47
2:BC:470:LYS:HB2	2:BD:489:PHE:CD2	2.50	0.47
2:BD:351:LYS:NZ	2:BD:356:ASP:O	2.44	0.47
2:BD:658:ASP:N	2:BD:658:ASP:OD1	2.46	0.47
2:BE:517:ASN:OD1	2:BE:517:ASN:N	2.47	0.47
2:BE:642:VAL:H	2:BF:629:GLN:HE22	1.63	0.47
3:Ck:170:ALA:HA	3:Ck:173:ASP:OD2	2.15	0.47
2:A0:360:MET:HE3	2:A6:164:LEU:HD22	1.97	0.47
2:A0:479:GLU:OE2	2:A0:551:ARG:NH2	2.48	0.47
2:A1:310:THR:C	2:A1:464:ASN:HD21	2.21	0.47
2:A1:328:SER:HA	2:A1:446:ASP:O	2.14	0.47
2:A4:350:GLN:NE2	2:Ay:480:ARG:HD3	2.29	0.47
2:A4:361:THR:HB	2:Az:165:ARG:NH1	2.29	0.47
2:A5:165:ARG:CD	2:A9:350:GLN:O	2.63	0.47
2:A7:206:ARG:HD3	2:A8:173:VAL:HG13	1.96	0.47
2:A7:689:VAL:HG22	2:A7:702:THR:HG23	1.97	0.47
2:A9:398:LEU:HD23	2:A9:422:LEU:HA	1.96	0.47
2:As:505:ASP:O	2:As:509:GLN:HG2	2.15	0.47
2:At:200:GLY:HA3	2:At:481:TYR:O	2.15	0.47
2:At:461:ASN:HD21	2:At:463:SER:HB3	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ay:694:ARG:N	2:Ay:697:GLN:O	2.48	0.47
2:BA:502:ALA:HB2	2:BF:474:PHE:HE1	1.78	0.47
2:BB:250:ILE:H	2:BB:295:ILE:CG2	2.28	0.47
2:BB:321:LYS:O	2:BB:455:GLU:N	2.47	0.47
2:BC:736:PRO:HB2	2:BD:734:LYS:HE2	1.97	0.47
2:BD:288:LYS:C	2:BD:414:ARG:HG3	2.40	0.47
2:BH:373:GLU:HB2	2:BH:390:ILE:HG23	1.95	0.47
2:BH:682:TYR:OH	2:BH:684:PRO:HA	2.14	0.47
3:Ck:691:VAL:N	3:Ck:694:ARG:HH21	2.13	0.47
2:A1:321:LYS:HA	2:A1:339:PHE:O	2.15	0.47
2:A2:158:SER:HA	2:A5:494:PRO:CA	2.45	0.47
2:A2:247:LEU:HD12	2:A2:458:ILE:HG22	1.97	0.47
2:A2:370:PHE:HA	2:A2:396:ALA:O	2.14	0.47
2:A3:242:ASN:ND2	2:A4:488:PRO:O	2.47	0.47
2:A4:351:LYS:N	2:Az:165:ARG:O	2.48	0.47
2:A4:535:THR:HG21	2:A4:556:PRO:HB2	1.96	0.47
2:A5:470:LYS:HB2	2:A6:489:PHE:CD2	2.50	0.47
2:A6:366:THR:OG1	2:A7:545:GLN:OE1	2.26	0.47
2:A6:483:ILE:HD11	2:A6:681:LEU:HB3	1.97	0.47
2:A7:211:PHE:CE1	2:A7:473:ASP:HB2	2.50	0.47
2:A7:307:SER:HB3	2:BG:216:ARG:HG3	1.97	0.47
2:A8:322:ILE:CG1	2:A8:339:PHE:HB2	2.44	0.47
2:A8:333:LYS:HD3	2:A8:384:GLU:HB3	1.97	0.47
2:A8:658:ASP:OD1	2:A8:658:ASP:N	2.46	0.47
2:Au:398:LEU:HD23	2:Au:422:LEU:HA	1.96	0.47
2:Au:485:LEU:HG	2:Au:707:ARG:CG	2.39	0.47
2:Av:560:GLU:HG3	2:Av:719:LEU:HB3	1.96	0.47
2:Av:651:ASN:HD22	2:Av:653:ASN:HB2	1.79	0.47
2:Ax:211:PHE:CE1	2:Ax:473:ASP:HB2	2.50	0.47
2:Ax:266:ILE:HG22	2:Ax:267:VAL:HG23	1.97	0.47
2:BA:692:VAL:HG22	2:BF:468:ARG:CZ	2.45	0.47
2:BB:539:ARG:O	2:BB:555:ARG:NH1	2.48	0.47
2:BB:687:VAL:HG22	2:BB:704:VAL:HG22	1.95	0.47
2:BD:203:VAL:HG22	2:BE:170:TYR:N	2.27	0.47
2:BD:273:GLU:HA	2:BD:277:VAL:O	2.14	0.47
2:BF:370:PHE:HA	2:BF:396:ALA:O	2.15	0.47
2:BG:180:ARG:HA	2:BG:512:ASN:HB3	1.96	0.47
2:BH:301:ILE:HD11	2:BH:460:ARG:HH22	1.80	0.47
2:BH:623:THR:OG1	2:BH:624:ASP:N	2.47	0.47
7:R:146:THR:HA	7:R:149:HIS:HB3	1.96	0.47
8:a:68:PHE:HZ	8:a:275:LYS:HD3	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:471:HIS:ND1	2:A2:490:SER:O	2.47	0.46
2:A3:672:PRO:HB3	2:A3:679:MET:SD	2.56	0.46
2:A4:361:THR:HA	2:A4:405:SER:HA	1.97	0.46
2:A5:623:THR:OG1	2:A5:624:ASP:N	2.48	0.46
2:A7:493:ARG:HD2	2:A7:497:TRP:CD2	2.50	0.46
2:A8:493:ARG:HD2	2:A8:497:TRP:CD2	2.50	0.46
2:A8:685:GLU:HG2	2:A8:706:PRO:HA	1.98	0.46
2:As:493:ARG:HD2	2:As:497:TRP:CD2	2.49	0.46
2:Av:164:LEU:HG	2:Ax:360:MET:SD	2.56	0.46
2:Aw:283:TYR:HD2	2:Aw:454:TYR:O	1.98	0.46
2:Az:266:ILE:HG22	2:Az:267:VAL:HG23	1.97	0.46
2:BA:174:PHE:HD1	2:BF:553:LEU:HD23	1.80	0.46
2:BA:322:ILE:CG1	2:BA:339:PHE:HB2	2.45	0.46
2:BB:349:PHE:HA	2:BD:165:ARG:N	2.29	0.46
2:BC:321:LYS:HD2	2:BC:455:GLU:OE1	2.14	0.46
2:BE:560:GLU:HG3	2:BE:719:LEU:HB3	1.97	0.46
2:BG:483:ILE:HD11	2:BG:681:LEU:HB3	1.97	0.46
5:P:20:GLU:H	5:P:20:GLU:CD	2.21	0.46
2:A0:202:ASP:OD2	2:A0:480:ARG:NH2	2.46	0.46
2:A0:225:TRP:HH2	2:Az:309:ASN:HB2	1.79	0.46
2:A1:694:ARG:NE	2:A1:701:GLU:OE2	2.38	0.46
2:A2:461:ASN:HD21	2:A4:162:LYS:NZ	2.13	0.46
2:A2:693:THR:HG23	2:A2:698:VAL:HG22	1.97	0.46
2:A5:694:ARG:CG	2:A5:697:GLN:HE21	2.28	0.46
2:A6:373:GLU:OE1	2:A6:393:LYS:HG2	2.14	0.46
2:A7:464:ASN:OD1	2:A7:464:ASN:N	2.48	0.46
2:A8:410:LYS:HA	2:As:225:TRP:CZ2	2.50	0.46
2:Ar:485:LEU:HG	2:Ar:707:ARG:CG	2.33	0.46
2:Ar:658:ASP:N	2:Ar:658:ASP:OD1	2.45	0.46
2:At:354:GLU:OE2	2:BA:480:ARG:HB3	2.14	0.46
2:At:676:THR:O	2:At:713:ASN:HB2	2.15	0.46
2:Ax:314:ASP:HB2	2:Ax:459:ARG:HB2	1.96	0.46
2:BA:491:ILE:HB	2:BF:471:HIS:H	1.80	0.46
2:BA:623:THR:OG1	2:BA:624:ASP:N	2.48	0.46
2:BC:658:ASP:OD1	2:BC:658:ASP:N	2.46	0.46
2:BD:168:MET:HG2	2:BD:169:PRO:HD2	1.97	0.46
2:BD:377:ASP:OD1	2:BD:381:ALA:N	2.48	0.46
2:BE:559:GLU:O	2:BE:718:GLY:HA2	2.15	0.46
2:BE:584:ALA:O	2:BE:588:VAL:HG23	2.15	0.46
2:BF:231:LEU:HD11	2:BF:234:PHE:CE2	2.49	0.46
2:BG:489:PHE:HD2	2:BH:470:LYS:HB2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:G:151:ASP:OD1	4:G:151:ASP:N	2.48	0.46
5:O:12:ASP:HA	5:O:15:ARG:HG3	1.96	0.46
7:R:94:PHE:HE2	7:R:147:TRP:HE1	1.64	0.46
2:A0:632:GLN:HB2	2:A9:637:PHE:CZ	2.50	0.46
2:A1:505:ASP:O	2:A1:509:GLN:HG2	2.16	0.46
2:A2:205:PHE:HZ	2:A2:553:LEU:HD21	1.79	0.46
2:A2:216:ARG:HE	2:As:158:SER:CB	2.28	0.46
2:A3:365:ASP:CG	2:A3:401:GLU:HG2	2.39	0.46
2:A3:464:ASN:N	2:A3:464:ASN:OD1	2.48	0.46
2:A3:495:LEU:HD21	2:A3:698:VAL:HG12	1.96	0.46
2:A6:687:VAL:HG22	2:A6:704:VAL:HG22	1.97	0.46
2:A7:658:ASP:N	2:A7:658:ASP:OD1	2.46	0.46
2:A8:273:GLU:HA	2:A8:277:VAL:O	2.14	0.46
2:A8:687:VAL:HG22	2:A8:704:VAL:HG22	1.96	0.46
2:A9:561:ILE:O	2:A9:720:ILE:HA	2.14	0.46
2:Ar:180:ARG:HG3	2:Ar:515:PHE:CD2	2.51	0.46
2:Ar:505:ASP:O	2:Ar:509:GLN:HG2	2.14	0.46
2:Ar:558:PHE:HD1	2:Ar:717:LEU:HB3	1.80	0.46
2:Ar:623:THR:OG1	2:Ar:624:ASP:N	2.47	0.46
2:As:160:ASP:OD1	2:As:162:LYS:HG3	2.16	0.46
2:As:491:ILE:HD12	2:As:503:ASP:HB3	1.97	0.46
2:Av:351:LYS:HD2	2:Av:359:LYS:O	2.14	0.46
2:Aw:497:TRP:NE1	2:Aw:499:GLU:O	2.46	0.46
2:Ay:306:TYR:CZ	2:BE:213:HIS:CE1	3.03	0.46
2:Ay:505:ASP:O	2:Ay:509:GLN:HG2	2.16	0.46
2:BA:483:ILE:HD11	2:BA:681:LEU:HB3	1.96	0.46
2:BB:347:ASN:N	2:BD:167:MET:HE2	2.30	0.46
2:BD:535:THR:HG21	2:BD:556:PRO:HB2	1.98	0.46
2:BD:558:PHE:HA	2:BD:717:LEU:O	2.15	0.46
2:BE:494:PRO:HB2	2:BE:496:ASP:OD1	2.15	0.46
2:BE:672:PRO:HB3	2:BE:679:MET:SD	2.55	0.46
2:BH:658:ASP:OD1	2:BH:658:ASP:N	2.45	0.46
3:Ck:171:THR:HA	3:Ck:174:ASP:OD2	2.16	0.46
3:Ck:275:ARG:HH12	3:Ck:282:LYS:NZ	2.13	0.46
5:P:56:GLU:O	5:P:59:PRO:HD2	2.15	0.46
5:P:60:LYS:H	5:P:60:LYS:HD2	1.80	0.46
2:A1:158:SER:O	2:BF:494:PRO:O	2.33	0.46
2:A1:252:ARG:NH2	2:Ar:218:ALA:O	2.47	0.46
2:A2:225:TRP:HH2	2:Aw:309:ASN:HB3	1.79	0.46
2:A4:368:SER:CB	2:Ay:545:GLN:HB2	2.46	0.46
2:Ar:180:ARG:HA	2:Ar:512:ASN:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ar:184:MET:HE3	2:Ar:519:MET:HE1	1.98	0.46
2:As:561:ILE:N	2:As:719:LEU:O	2.39	0.46
2:As:651:ASN:HD22	2:As:653:ASN:HB2	1.80	0.46
2:Av:203:VAL:O	2:Av:478:GLN:HA	2.15	0.46
2:Av:273:GLU:HA	2:Av:277:VAL:O	2.16	0.46
2:Av:687:VAL:HG22	2:Av:704:VAL:HG22	1.96	0.46
2:Aw:270:ARG:HE	2:Aw:281:THR:HG23	1.80	0.46
2:Ax:565:LEU:HD12	2:Ax:725:LEU:HA	1.97	0.46
2:Az:492:PRO:HA	2:Az:700:LYS:O	2.15	0.46
2:BB:313:LEU:CD1	2:BD:161:GLN:H	2.29	0.46
2:BB:351:LYS:CA	2:BB:360:MET:HG2	2.29	0.46
2:BB:411:ALA:C	2:BD:161:GLN:HG3	2.40	0.46
2:BB:539:ARG:HG2	2:BB:555:ARG:HD3	1.96	0.46
2:BC:660:ILE:HB	2:BC:720:ILE:HB	1.98	0.46
2:BE:336:TYR:C	2:BE:378:VAL:HG23	2.40	0.46
2:BE:377:ASP:OD1	2:BE:381:ALA:N	2.48	0.46
2:BF:314:ASP:HB2	2:BF:459:ARG:O	2.15	0.46
2:BG:493:ARG:HD2	2:BG:497:TRP:CD2	2.50	0.46
2:BG:561:ILE:O	2:BG:720:ILE:HA	2.15	0.46
2:BG:586:MET:O	2:BG:590:ARG:HG3	2.15	0.46
3:Ck:577:LYS:O	3:Ck:868:PRO:HA	2.16	0.46
2:A0:370:PHE:HA	2:A0:396:ALA:O	2.16	0.46
2:A1:216:ARG:NH2	2:A5:159:TYR:HD1	2.13	0.46
2:A2:483:ILE:HD11	2:A2:681:LEU:CB	2.37	0.46
2:A2:559:GLU:O	2:A2:718:GLY:HA2	2.16	0.46
2:A3:273:GLU:HA	2:A3:277:VAL:O	2.15	0.46
2:A5:159:TYR:CG	2:A9:409:GLU:O	2.68	0.46
2:A5:314:ASP:OD1	2:A5:315:ALA:N	2.46	0.46
2:A6:301:ILE:HD13	2:A6:460:ARG:HH12	1.81	0.46
2:A9:486:LEU:HB2	2:A9:706:PRO:HG2	1.97	0.46
2:Au:370:PHE:HA	2:Au:396:ALA:O	2.15	0.46
2:Au:396:ALA:HB1	2:Au:422:LEU:HD11	1.96	0.46
2:Aw:623:THR:OG1	2:Aw:624:ASP:N	2.47	0.46
2:Ay:305:GLY:HA2	2:BF:694:ARG:CB	2.46	0.46
2:BA:485:LEU:HB3	2:BA:705:GLN:HE21	1.81	0.46
2:BA:492:PRO:CD	2:BF:213:HIS:HA	2.45	0.46
2:BA:689:VAL:H	2:BF:465:ARG:NH2	2.12	0.46
2:BB:203:VAL:O	2:BB:479:GLU:N	2.43	0.46
2:BB:319:LEU:HD12	2:BB:455:GLU:O	2.15	0.46
2:BB:350:GLN:HG2	2:BD:165:ARG:CB	2.41	0.46
2:BB:680:PHE:CZ	2:BB:708:CYS:HB2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BC:260:TYR:HD1	2:BC:290:ILE:HG12	1.80	0.46
2:BC:464:ASN:OD1	2:BC:464:ASN:N	2.48	0.46
2:BC:680:PHE:CZ	2:BC:708:CYS:HB2	2.50	0.46
2:BD:549:PHE:HE2	2:BD:674:PRO:HG3	1.81	0.46
2:BE:240:LEU:O	2:BF:514:ARG:NE	2.48	0.46
2:BF:322:ILE:HA	2:BF:454:TYR:HA	1.95	0.46
2:BF:560:GLU:HA	2:BF:719:LEU:O	2.16	0.46
2:BF:578:ARG:HG3	2:BF:729:TYR:OH	2.15	0.46
2:BH:473:ASP:OD1	2:BH:474:PHE:N	2.48	0.46
4:G:121:PHE:CE2	4:G:203:TYR:HB3	2.51	0.46
5:O:9:GLN:HA	5:O:12:ASP:OD2	2.16	0.46
2:A0:338:PRO:HD3	2:A0:378:VAL:HG22	1.96	0.46
2:A0:483:ILE:HD11	2:A0:681:LEU:CB	2.46	0.46
2:A0:658:ASP:OD1	2:A0:658:ASP:N	2.46	0.46
2:A1:314:ASP:HB2	2:A1:459:ARG:HB2	1.97	0.46
2:A2:736:PRO:HG3	2:A3:732:ASN:ND2	2.29	0.46
2:A7:471:HIS:ND1	2:A8:490:SER:O	2.49	0.46
2:Ar:247:LEU:HD12	2:Ar:458:ILE:HG22	1.98	0.46
2:Ar:322:ILE:CG1	2:Ar:339:PHE:HB2	2.45	0.46
2:As:351:LYS:HB3	2:Au:165:ARG:HB2	1.98	0.46
2:At:482:ALA:H	2:At:709:ARG:HH12	1.63	0.46
2:Au:179:SER:O	2:Au:512:ASN:HB3	2.16	0.46
2:Au:365:ASP:CG	2:Au:401:GLU:HG2	2.40	0.46
2:Av:319:LEU:HA	2:Av:456:LEU:HD23	1.96	0.46
2:Av:559:GLU:O	2:Av:718:GLY:HA2	2.16	0.46
2:Aw:184:MET:HE3	2:Aw:519:MET:HE1	1.98	0.46
2:Ax:560:GLU:HG3	2:Ax:719:LEU:HB3	1.96	0.46
2:Ay:260:TYR:OH	2:BE:221:THR:HA	2.15	0.46
2:Ay:517:ASN:OD1	2:Ay:517:ASN:N	2.49	0.46
2:Az:651:ASN:HD22	2:Az:653:ASN:HB2	1.81	0.46
2:BA:637:PHE:CZ	2:BB:632:GLN:HB2	2.51	0.46
2:BB:202:ASP:N	2:BC:168:MET:O	2.35	0.46
2:BB:260:TYR:HE1	2:BB:289:LEU:O	1.99	0.46
2:BC:309:ASN:HA	2:BE:159:TYR:CB	2.45	0.46
2:BD:693:THR:CG2	2:BD:698:VAL:HG22	2.43	0.46
2:BH:179:SER:O	2:BH:512:ASN:HB3	2.16	0.46
2:BH:333:LYS:HD3	2:BH:384:GLU:HB3	1.98	0.46
5:P:50:ASP:HB3	5:P:84:ARG:NH2	2.20	0.46
8:a:95:ASN:HB2	8:a:163:LYS:HG2	1.97	0.46
1:B:82:GLU:OE1	1:B:82:GLU:N	2.49	0.46
2:A0:306:TYR:H	2:BE:695:ASN:ND2	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:697:GLN:OE1	2:BD:310:THR:OG1	2.31	0.46
2:A4:283:TYR:HD2	2:A4:454:TYR:O	1.98	0.46
2:A4:408:VAL:O	2:Az:161:GLN:HA	2.16	0.46
2:A8:220:GLY:HA2	2:BH:294:GLY:C	2.40	0.46
2:A8:651:ASN:HD22	2:A8:653:ASN:HB2	1.80	0.46
2:At:297:GLU:OE2	2:At:307:SER:OG	2.22	0.46
2:Au:273:GLU:HA	2:Au:277:VAL:O	2.15	0.46
2:Au:407:ASN:OD1	2:Au:408:VAL:N	2.49	0.46
2:Av:483:ILE:HD11	2:Av:681:LEU:HB3	1.97	0.46
2:Aw:490:SER:HA	2:Aw:702:THR:O	2.15	0.46
2:Ay:323:LEU:HB3	2:Ay:453:GLY:H	1.81	0.46
2:BA:322:ILE:HG13	2:BA:339:PHE:HB2	1.97	0.46
2:BB:351:LYS:HZ1	2:BB:357:PHE:HA	1.80	0.46
2:BB:489:PHE:O	2:BB:703:MET:HA	2.16	0.46
2:BC:360:MET:CB	2:BE:164:LEU:HB2	2.46	0.46
2:BD:302:LEU:HA	2:BD:305:GLY:O	2.16	0.46
2:BD:323:LEU:O	2:BD:451:LEU:HD12	2.14	0.46
2:BH:203:VAL:O	2:BH:478:GLN:HA	2.16	0.46
2:BH:505:ASP:O	2:BH:509:GLN:HG2	2.15	0.46
3:Ck:273:ILE:HG21	3:Ck:394:TYR:CD1	2.50	0.46
6:Q:5:ARG:HB3	6:Q:5:ARG:CZ	2.45	0.46
2:A1:529:ALA:O	2:A1:533:VAL:HG23	2.16	0.46
2:A1:660:ILE:O	2:A1:719:LEU:HD12	2.15	0.46
2:A4:203:VAL:O	2:A4:478:GLN:HA	2.15	0.46
2:A5:297:GLU:OE2	2:A5:307:SER:OG	2.20	0.46
2:A5:370:PHE:HA	2:A5:396:ALA:O	2.15	0.46
2:A7:691:GLN:HA	2:A7:700:LYS:HA	1.97	0.46
2:A8:464:ASN:HB3	2:Ax:697:GLN:HB2	1.96	0.46
2:A9:247:LEU:HD21	2:A9:460:ARG:HB2	1.98	0.46
2:As:160:ASP:HB3	2:Aw:408:VAL:HG12	1.97	0.46
2:As:165:ARG:HD3	2:Aw:351:LYS:HB3	1.97	0.46
2:As:211:PHE:HE1	2:As:473:ASP:HB2	1.81	0.46
2:As:398:LEU:HD23	2:As:422:LEU:HA	1.98	0.46
2:At:289:LEU:HD12	2:At:413:LEU:H	1.81	0.46
2:Au:170:TYR:O	2:Ax:204:SER:N	2.43	0.46
2:Ax:289:LEU:HD12	2:Ax:413:LEU:H	1.81	0.46
2:BA:273:GLU:HA	2:BA:277:VAL:O	2.14	0.46
2:BC:352:SER:H	2:BE:165:ARG:CZ	2.29	0.46
2:BF:289:LEU:HA	2:BF:413:LEU:O	2.16	0.46
2:BG:505:ASP:O	2:BG:509:GLN:HG2	2.16	0.46
2:A1:486:LEU:O	2:A1:705:GLN:NE2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:203:VAL:O	2:A2:479:GLU:N	2.37	0.46
2:A2:489:PHE:O	2:A2:703:MET:HA	2.16	0.46
2:A5:273:GLU:HA	2:A5:277:VAL:O	2.15	0.46
2:A5:317:ILE:HG23	2:A5:458:ILE:HG12	1.96	0.46
2:A6:473:ASP:OD1	2:A6:474:PHE:N	2.49	0.46
2:A7:370:PHE:HA	2:A7:396:ALA:O	2.16	0.46
2:A7:473:ASP:OD1	2:A7:474:PHE:N	2.48	0.46
2:A9:493:ARG:HD2	2:A9:497:TRP:CD2	2.51	0.46
2:Ar:370:PHE:HA	2:Ar:396:ALA:O	2.16	0.46
2:Ar:691:GLN:CB	2:Ar:700:LYS:HG2	2.43	0.46
2:Ar:732:ASN:CG	2:Aw:570:GLN:HB2	2.40	0.46
2:At:466:ARG:HA	2:BB:696:GLY:O	2.16	0.46
2:At:549:PHE:HE2	2:At:674:PRO:HG3	1.81	0.46
2:Av:179:SER:O	2:Av:512:ASN:HB3	2.16	0.46
2:Av:517:ASN:OD1	2:Av:517:ASN:N	2.48	0.46
2:Av:680:PHE:CZ	2:Av:708:CYS:HB2	2.50	0.46
2:Aw:203:VAL:O	2:Aw:478:GLN:HA	2.14	0.46
2:Ax:349:PHE:CD2	2:Ax:362:LEU:HB2	2.50	0.46
2:Ax:586:MET:O	2:Ax:590:ARG:HG3	2.16	0.46
2:BA:167:MET:HE2	2:BE:319:LEU:O	2.16	0.46
2:BA:319:LEU:HA	2:BA:456:LEU:HD23	1.98	0.46
2:BA:485:LEU:HG	2:BA:707:ARG:CG	2.45	0.46
2:BC:313:LEU:CB	2:BE:162:LYS:HG2	2.44	0.46
2:BC:694:ARG:HB2	2:BC:697:GLN:HG3	1.97	0.46
2:BF:623:THR:OG1	2:BF:624:ASP:N	2.48	0.46
3:Ck:247:LYS:NZ	3:Ck:374:THR:HA	2.31	0.46
2:A0:303:ALA:O	2:A5:695:ASN:HB3	2.15	0.46
2:A0:358:ARG:NH2	2:A6:162:LYS:O	2.49	0.46
2:A1:159:TYR:N	2:BF:493:ARG:HB3	2.30	0.46
2:A1:167:MET:CG	2:Az:200:GLY:H	2.24	0.46
2:A1:168:MET:O	2:Az:201:TYR:HA	2.16	0.46
2:A1:407:ASN:OD1	2:A1:408:VAL:N	2.49	0.46
2:A1:632:GLN:HB2	2:Az:637:PHE:CZ	2.50	0.46
2:A1:695:ASN:HB2	2:BD:306:TYR:H	1.81	0.46
2:A2:158:SER:OG	2:Az:464:ASN:ND2	2.49	0.46
2:A2:657:ARG:HA	2:A2:657:ARG:HD3	1.75	0.46
2:A3:658:ASP:OD1	2:A3:658:ASP:N	2.47	0.46
2:A4:260:TYR:CD1	2:A4:290:ILE:HG12	2.51	0.46
2:A6:493:ARG:HD2	2:A6:497:TRP:CD2	2.51	0.46
2:A9:370:PHE:HA	2:A9:396:ALA:O	2.16	0.46
2:Ar:165:ARG:CD	2:Av:351:LYS:HB3	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:As:158:SER:HA	2:Aw:293:ILE:HD12	1.98	0.46
2:As:586:MET:O	2:As:590:ARG:HG3	2.16	0.46
2:At:465:ARG:HD2	2:BB:495:LEU:HD12	1.98	0.46
2:Av:623:THR:OG1	2:Av:624:ASP:N	2.49	0.46
2:Ax:494:PRO:HB2	2:Ax:496:ASP:OD1	2.16	0.46
2:Az:180:ARG:HA	2:Az:512:ASN:HB3	1.98	0.46
2:BA:398:LEU:HD23	2:BA:422:LEU:HA	1.98	0.46
2:BB:492:PRO:HA	2:BB:700:LYS:O	2.16	0.46
2:BB:505:ASP:O	2:BB:509:GLN:HG2	2.16	0.46
2:BD:321:LYS:O	2:BD:455:GLU:N	2.49	0.46
2:BF:251:TYR:HD1	2:BF:261:PHE:CD2	2.34	0.46
6:Q:4:LEU:HA	6:Q:4:LEU:HD12	1.77	0.46
2:A4:410:LYS:HA	2:Az:159:TYR:HE1	1.79	0.45
2:A5:586:MET:O	2:A5:590:ARG:HG3	2.16	0.45
2:A6:237:ASN:HA	2:A7:517:ASN:HD22	1.81	0.45
2:A6:694:ARG:HH21	2:A6:701:GLU:CD	2.23	0.45
2:Ar:247:LEU:HD21	2:Ar:460:ARG:HB2	1.98	0.45
2:Ar:358:ARG:NH2	2:Ax:161:GLN:HA	2.31	0.45
2:Ar:689:VAL:C	2:Aw:465:ARG:HH12	2.24	0.45
2:Ar:694:ARG:HB2	2:Ar:697:GLN:HG3	1.97	0.45
2:At:306:TYR:O	2:BB:695:ASN:ND2	2.49	0.45
2:Au:505:ASP:O	2:Au:509:GLN:HG2	2.15	0.45
2:Ay:586:MET:O	2:Ay:590:ARG:HG3	2.16	0.45
2:Ay:738:GLN:HB2	2:Az:734:LYS:CD	2.44	0.45
2:Az:314:ASP:OD1	2:Az:315:ALA:N	2.45	0.45
2:Az:517:ASN:N	2:Az:517:ASN:OD1	2.50	0.45
2:BA:205:PHE:O	2:BA:476:MET:HA	2.15	0.45
2:BA:558:PHE:HA	2:BA:717:LEU:O	2.16	0.45
2:BB:274:ILE:HB	2:BB:279:TYR:HE2	1.80	0.45
2:BC:288:LYS:O	2:BC:414:ARG:HG3	2.15	0.45
2:BC:311:ASP:HB2	2:BE:158:SER:N	2.30	0.45
2:BF:398:LEU:HD23	2:BF:422:LEU:HA	1.98	0.45
2:A0:179:SER:O	2:A0:512:ASN:HB3	2.16	0.45
2:A0:494:PRO:HB2	2:A0:496:ASP:OD1	2.16	0.45
2:A1:350:GLN:H	2:A3:165:ARG:HG2	1.82	0.45
2:A5:201:TYR:O	2:A5:480:ARG:HA	2.15	0.45
2:A5:351:LYS:HB3	2:A7:165:ARG:HD3	1.98	0.45
2:A6:273:GLU:HA	2:A6:277:VAL:O	2.15	0.45
2:A8:336:TYR:O	2:A8:378:VAL:HG23	2.16	0.45
2:A8:354:GLU:OE2	2:As:480:ARG:HB3	2.16	0.45
2:A8:530:LEU:HD22	2:A8:558:PHE:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A9:491:ILE:HD12	2:A9:503:ASP:HB3	1.98	0.45
2:Ar:432:GLU:HB2	2:As:540:GLN:NE2	2.30	0.45
2:As:736:PRO:HG2	2:Ax:734:LYS:HA	1.99	0.45
2:Au:172:VAL:O	2:Ax:206:ARG:N	2.49	0.45
2:Aw:559:GLU:OE1	2:Aw:595:ARG:NH1	2.46	0.45
2:Ax:349:PHE:CZ	2:Ax:413:LEU:HD21	2.51	0.45
2:Ax:660:ILE:O	2:Ax:719:LEU:HD12	2.17	0.45
2:Ay:305:GLY:CA	2:BF:694:ARG:C	2.89	0.45
2:Ay:535:THR:HG21	2:Ay:556:PRO:HB2	1.98	0.45
2:Az:273:GLU:HA	2:Az:277:VAL:O	2.16	0.45
2:Az:489:PHE:O	2:Az:703:MET:HA	2.16	0.45
2:BA:360:MET:HE3	2:BC:164:LEU:HD13	1.98	0.45
2:BC:621:VAL:O	2:BC:649:VAL:N	2.42	0.45
2:BF:550:GLY:O	2:BF:554:ILE:HG12	2.16	0.45
2:A0:273:GLU:HA	2:A0:277:VAL:O	2.17	0.45
2:A1:225:TRP:CZ2	2:A5:159:TYR:CE2	3.05	0.45
2:A1:298:ASP:OD2	2:A1:300:SER:OG	2.27	0.45
2:A1:356:ASP:HA	2:Ar:476:MET:O	2.16	0.45
2:A1:462:ASN:ND2	2:A2:703:MET:SD	2.89	0.45
2:A1:464:ASN:HD22	2:As:697:GLN:HB2	1.82	0.45
2:A2:493:ARG:HD2	2:A2:497:TRP:CG	2.51	0.45
2:A3:493:ARG:HD3	2:A3:493:ARG:HA	1.74	0.45
2:A3:540:GLN:HA	2:A3:555:ARG:HH12	1.80	0.45
2:A3:558:PHE:CD1	2:A3:717:LEU:HB3	2.44	0.45
2:A4:490:SER:HA	2:A4:702:THR:O	2.16	0.45
2:A6:657:ARG:HD3	2:A6:657:ARG:HA	1.74	0.45
2:A7:205:PHE:O	2:A7:476:MET:HA	2.17	0.45
2:A7:394:SER:HA	2:A8:537:ARG:NH2	2.31	0.45
2:A7:493:ARG:HD3	2:A7:493:ARG:HA	1.73	0.45
2:A8:308:ASP:OD2	2:Ax:697:GLN:NE2	2.49	0.45
2:Ar:686:LEU:O	2:Ar:704:VAL:HA	2.16	0.45
2:As:322:ILE:HG13	2:As:339:PHE:HB2	1.99	0.45
2:As:550:GLY:HA2	2:As:674:PRO:HB3	1.98	0.45
2:At:726:ARG:O	2:At:730:THR:HG23	2.17	0.45
2:Au:535:THR:HG21	2:Au:556:PRO:HB2	1.98	0.45
2:Av:160:ASP:O	2:Ax:408:VAL:HG12	2.17	0.45
2:Aw:297:GLU:OE2	2:Aw:307:SER:OG	2.30	0.45
2:BA:158:SER:HB2	2:BE:250:ILE:HD12	1.98	0.45
2:BA:292:MET:HE2	2:BA:458:ILE:HD12	1.98	0.45
2:BA:586:MET:O	2:BA:590:ARG:HG3	2.16	0.45
2:BB:412:GLY:H	2:BD:161:GLN:CD	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:483:ILE:HD11	2:BB:681:LEU:HB3	1.98	0.45
2:BB:651:ASN:HB3	2:BB:656:LEU:CD1	2.46	0.45
2:BC:559:GLU:OE1	2:BC:595:ARG:NH1	2.41	0.45
2:BD:486:LEU:O	2:BD:705:GLN:HG3	2.15	0.45
2:BD:570:GLN:CD	2:BE:573:THR:HA	2.41	0.45
2:BE:211:PHE:CE1	2:BE:473:ASP:HB2	2.51	0.45
2:BE:657:ARG:HA	2:BE:657:ARG:HD3	1.71	0.45
2:A3:203:VAL:O	2:A3:478:GLN:HA	2.16	0.45
2:A5:159:TYR:HD1	2:A5:159:TYR:HA	1.56	0.45
2:A5:323:LEU:O	2:A5:451:LEU:HD12	2.17	0.45
2:A8:309:ASN:HB3	2:As:214:LEU:HB3	1.98	0.45
2:A8:623:THR:OG1	2:A8:624:ASP:N	2.46	0.45
2:A9:205:PHE:O	2:A9:476:MET:HA	2.17	0.45
2:A9:273:GLU:HA	2:A9:277:VAL:O	2.17	0.45
2:As:302:LEU:HA	2:As:305:GLY:O	2.16	0.45
2:As:311:ASP:O	2:BH:216:ARG:NH2	2.50	0.45
2:As:314:ASP:OD1	2:As:315:ALA:N	2.45	0.45
2:As:483:ILE:HD11	2:As:681:LEU:HB3	1.97	0.45
2:At:266:ILE:HG22	2:At:267:VAL:HG23	1.97	0.45
2:Av:237:ASN:HA	2:Aw:517:ASN:ND2	2.31	0.45
2:Ay:559:GLU:CD	2:Ay:595:ARG:HH12	2.22	0.45
2:Az:685:GLU:HG2	2:Az:706:PRO:HA	1.98	0.45
2:BA:162:LYS:HB3	2:BE:457:ARG:CA	2.47	0.45
2:BA:323:LEU:O	2:BA:451:LEU:HD12	2.17	0.45
2:BB:247:LEU:HD12	2:BD:162:LYS:HZ2	1.81	0.45
2:BD:672:PRO:HG2	2:BE:170:TYR:CE1	2.51	0.45
2:BE:178:ALA:N	2:BE:509:GLN:OE1	2.27	0.45
2:BG:205:PHE:O	2:BG:476:MET:HA	2.17	0.45
2:BH:349:PHE:HB3	2:BH:360:MET:HB3	1.98	0.45
2:A1:310:THR:O	2:A1:464:ASN:ND2	2.43	0.45
2:A1:435:ARG:HA	2:A1:440:PHE:CD2	2.51	0.45
2:A4:577:ARG:HH12	2:A4:732:ASN:HA	1.81	0.45
2:A5:200:GLY:HA3	2:A5:481:TYR:O	2.16	0.45
2:A5:493:ARG:HB3	2:A5:497:TRP:CB	2.46	0.45
2:A5:661:PHE:CE1	2:A5:719:LEU:HD13	2.51	0.45
2:A5:740:ASN:O	2:A6:738:GLN:HA	2.17	0.45
2:A8:410:LYS:HG2	2:As:225:TRP:CD2	2.51	0.45
2:As:206:ARG:HE	2:As:474:PHE:HB3	1.81	0.45
2:Aw:586:MET:O	2:Aw:590:ARG:HG3	2.16	0.45
2:Aw:660:ILE:O	2:Aw:719:LEU:HD12	2.17	0.45
2:Ay:205:PHE:O	2:Ay:476:MET:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Az:225:TRP:CZ2	2:BD:410:LYS:HA	2.52	0.45
2:Az:623:THR:OG1	2:Az:624:ASP:N	2.49	0.45
2:BA:172:VAL:HG11	2:BF:552:TYR:H	1.82	0.45
2:BA:657:ARG:HA	2:BA:657:ARG:HD3	1.70	0.45
2:BC:493:ARG:HD2	2:BC:497:TRP:CD2	2.51	0.45
2:BD:695:ASN:OD1	2:BD:695:ASN:N	2.50	0.45
2:BF:288:LYS:C	2:BF:414:ARG:HG3	2.41	0.45
2:BG:651:ASN:HB3	2:BG:656:LEU:CD1	2.47	0.45
8:a:190:ASP:O	8:a:194:ILE:HG13	2.17	0.45
2:A0:489:PHE:CD2	2:A9:470:LYS:HB2	2.50	0.45
2:A1:539:ARG:O	2:A1:555:ARG:NH1	2.50	0.45
2:A2:322:ILE:CG1	2:A2:339:PHE:HB2	2.46	0.45
2:A3:435:ARG:HA	2:A3:440:PHE:CD2	2.52	0.45
2:A3:651:ASN:HD22	2:A3:653:ASN:HB2	1.82	0.45
2:A4:336:TYR:O	2:A4:378:VAL:HG23	2.17	0.45
2:A4:473:ASP:OD1	2:A4:474:PHE:N	2.48	0.45
2:A6:204:SER:O	2:A7:172:VAL:N	2.48	0.45
2:A6:241:SER:O	2:A6:470:LYS:HE3	2.16	0.45
2:A8:180:ARG:HG3	2:A8:515:PHE:CD2	2.52	0.45
2:A9:558:PHE:CE1	2:A9:717:LEU:HD23	2.52	0.45
2:A9:660:ILE:O	2:A9:719:LEU:HD12	2.16	0.45
2:Av:395:ALA:HB3	2:Aw:538:PHE:HZ	1.81	0.45
2:Av:493:ARG:HD2	2:Av:497:TRP:CD2	2.51	0.45
2:Av:540:GLN:HA	2:Av:555:ARG:HH12	1.82	0.45
2:Av:562:ASN:HA	2:Av:721:ASN:HB2	1.99	0.45
2:Av:570:GLN:NE2	2:Aw:733:ILE:O	2.48	0.45
2:Ax:359:LYS:C	2:Ax:360:MET:HG3	2.42	0.45
2:Ay:305:GLY:N	2:BF:696:GLY:C	2.75	0.45
2:BA:173:VAL:HG12	2:BF:207:ARG:HB3	1.99	0.45
2:BB:349:PHE:CD2	2:BD:163:GLU:O	2.65	0.45
2:BB:411:ALA:CA	2:BD:161:GLN:HG3	2.47	0.45
2:BD:203:VAL:H	2:BE:169:PRO:HB2	1.81	0.45
2:BG:373:GLU:HB2	2:BG:390:ILE:HG23	1.99	0.45
2:A1:314:ASP:O	2:A3:162:LYS:NZ	2.45	0.45
2:A1:314:ASP:OD1	2:A1:315:ALA:N	2.44	0.45
2:A1:408:VAL:CG1	2:A3:162:LYS:HB2	2.47	0.45
2:A2:428:GLN:HA	2:A3:537:ARG:NH2	2.31	0.45
2:A3:561:ILE:N	2:A3:719:LEU:O	2.38	0.45
2:A4:320:THR:O	2:A4:341:VAL:N	2.40	0.45
2:A5:247:LEU:HD12	2:A5:458:ILE:HG22	1.97	0.45
2:A5:322:ILE:CG1	2:A5:339:PHE:HB2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A5:517:ASN:N	2:A5:517:ASN:OD1	2.48	0.45
2:A7:190:ASN:O	2:A7:680:PHE:N	2.44	0.45
2:A8:694:ARG:HB2	2:A8:697:GLN:HG3	1.97	0.45
2:A9:517:ASN:OD1	2:A9:517:ASN:N	2.50	0.45
2:As:351:LYS:HD2	2:As:359:LYS:O	2.17	0.45
2:At:567:LYS:O	2:At:570:GLN:HB3	2.17	0.45
2:Au:680:PHE:CZ	2:Au:708:CYS:HB2	2.51	0.45
2:Au:689:VAL:CA	2:Ax:465:ARG:HH12	2.29	0.45
2:Ay:370:PHE:HA	2:Ay:396:ALA:O	2.17	0.45
2:Ay:558:PHE:CD1	2:Ay:717:LEU:HB3	2.44	0.45
2:Az:358:ARG:HD3	2:Az:358:ARG:HA	1.66	0.45
2:BA:174:PHE:CE1	2:BF:231:LEU:HD23	2.52	0.45
2:BB:407:ASN:O	2:BD:161:GLN:CB	2.64	0.45
2:BD:181:LEU:HD23	2:BD:181:LEU:HA	1.77	0.45
2:BE:237:ASN:OD1	2:BF:517:ASN:ND2	2.49	0.45
2:BE:488:PRO:HB3	2:BE:705:GLN:HB2	1.99	0.45
2:BE:660:ILE:N	2:BE:720:ILE:O	2.39	0.45
2:BG:651:ASN:HD22	2:BG:653:ASN:HB2	1.82	0.45
2:A0:514:ARG:NE	2:A9:240:LEU:O	2.50	0.45
2:A1:697:GLN:OE1	2:BD:464:ASN:ND2	2.49	0.45
2:A2:407:ASN:OD1	2:A2:408:VAL:N	2.50	0.45
2:A5:493:ARG:HD2	2:A5:497:TRP:CG	2.51	0.45
2:A6:351:LYS:HB3	2:A8:165:ARG:CB	2.47	0.45
2:A6:490:SER:HA	2:A6:702:THR:O	2.16	0.45
2:A8:407:ASN:OD1	2:A8:408:VAL:N	2.50	0.45
2:At:239:VAL:O	2:At:470:LYS:NZ	2.49	0.45
2:Au:241:SER:O	2:Au:470:LYS:HE3	2.16	0.45
2:Au:559:GLU:O	2:Au:718:GLY:HA2	2.16	0.45
2:Au:660:ILE:HB	2:Au:720:ILE:HB	1.99	0.45
2:Az:493:ARG:HD2	2:Az:497:TRP:CD2	2.52	0.45
2:BA:658:ASP:N	2:BA:658:ASP:OD1	2.47	0.45
2:BC:237:ASN:HD21	2:BD:653:ASN:HD21	1.63	0.45
2:BC:322:ILE:HA	2:BC:454:TYR:HA	1.99	0.45
2:BC:370:PHE:HA	2:BC:396:ALA:O	2.16	0.45
2:BD:493:ARG:HB3	2:BD:497:TRP:CB	2.47	0.45
2:BE:202:ASP:N	2:BF:168:MET:O	2.45	0.45
2:BE:203:VAL:O	2:BE:478:GLN:HA	2.17	0.45
2:BE:680:PHE:CZ	2:BE:708:CYS:HB2	2.51	0.45
2:BF:471:HIS:C	2:BF:472:LEU:HG	2.40	0.45
3:Ck:667:THR:O	3:Ck:671:LYS:HG3	2.17	0.45
5:O:103:MET:HE1	5:O:137:PHE:CE2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a:204:VAL:O	8:a:208:ILE:HG13	2.17	0.45
2:A0:216:ARG:HG2	2:Az:308:ASP:C	2.42	0.45
2:A2:322:ILE:HG13	2:A2:339:PHE:HB2	1.98	0.45
2:A2:328:SER:HA	2:A2:446:ASP:O	2.17	0.45
2:A2:496:ASP:OD1	2:A9:463:SER:HB2	2.17	0.45
2:A4:313:LEU:HB2	2:Az:162:LYS:CD	2.47	0.45
2:A5:180:ARG:HA	2:A5:512:ASN:CB	2.46	0.45
2:A5:227:ARG:HH22	2:BC:409:GLU:HG2	1.81	0.45
2:A5:693:THR:HA	2:A5:698:VAL:HA	1.98	0.45
2:A7:307:SER:HB2	2:BG:216:ARG:HB2	1.98	0.45
2:A9:211:PHE:HE1	2:A9:473:ASP:HB2	1.81	0.45
2:Ar:319:LEU:HD12	2:Ar:455:GLU:O	2.17	0.45
2:Ar:472:LEU:HD13	2:As:506:VAL:HG12	1.98	0.45
2:Ar:689:VAL:CA	2:Aw:465:ARG:HH12	2.30	0.45
2:Ar:732:ASN:OD1	2:Aw:570:GLN:HB2	2.17	0.45
2:As:273:GLU:HA	2:As:277:VAL:O	2.16	0.45
2:At:636:ASP:OD1	2:At:637:PHE:N	2.46	0.45
2:At:681:LEU:N	2:At:709:ARG:O	2.46	0.45
2:Au:547:GLU:HB2	2:Ax:343:GLY:O	2.17	0.45
2:Aw:205:PHE:O	2:Aw:476:MET:HA	2.16	0.45
2:Ax:490:SER:HA	2:Ax:702:THR:O	2.17	0.45
2:Ay:304:ASN:CA	2:BF:693:THR:HG23	2.46	0.45
2:Ay:464:ASN:OD1	2:Ay:464:ASN:N	2.49	0.45
2:Az:485:LEU:HG	2:Az:707:ARG:HG2	1.98	0.45
2:BA:358:ARG:NH2	2:BC:161:GLN:HA	2.32	0.45
2:BA:405:SER:O	2:BA:413:LEU:HD23	2.17	0.45
2:BA:470:LYS:HB2	2:BB:489:PHE:HD2	1.79	0.45
2:BB:364:PHE:N	2:BB:402:VAL:O	2.47	0.45
2:BB:368:SER:HB3	2:BC:545:GLN:HB2	1.98	0.45
2:BB:411:ALA:HA	2:BD:161:GLN:HG3	1.99	0.45
2:BC:235:MET:HE1	2:BC:601:GLY:HA2	1.97	0.45
2:BC:678:GLY:HA2	2:BC:712:ASN:HA	1.99	0.45
2:BD:586:MET:O	2:BD:590:ARG:HG3	2.16	0.45
2:BG:407:ASN:OD1	2:BG:408:VAL:N	2.50	0.45
2:BG:493:ARG:HD3	2:BG:493:ARG:HA	1.67	0.45
3:Ck:175:ILE:HG21	3:Ck:462:ALA:HB2	1.99	0.45
4:G:98:LEU:O	4:G:102:GLN:HG2	2.17	0.45
2:A0:490:SER:HA	2:A0:702:THR:O	2.16	0.45
2:A0:493:ARG:NH1	2:Ax:159:TYR:HB3	2.32	0.45
2:A3:690:ALA:O	2:A3:701:GLU:N	2.44	0.45
2:A4:586:MET:O	2:A4:590:ARG:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A5:558:PHE:CD1	2:A5:717:LEU:HB3	2.43	0.45
2:A5:561:ILE:N	2:A5:719:LEU:O	2.41	0.45
2:A7:249:PRO:HA	2:A7:295:ILE:HG21	1.99	0.45
2:A7:354:GLU:OE2	2:BG:480:ARG:HB3	2.17	0.45
2:A8:203:VAL:O	2:A8:478:GLN:HA	2.17	0.45
2:A8:222:PRO:HA	2:BH:291:ASP:HB2	1.99	0.45
2:A9:190:ASN:O	2:A9:680:PHE:N	2.41	0.45
2:Au:651:ASN:HB3	2:Au:656:LEU:CD1	2.47	0.45
2:Ay:693:THR:CG2	2:Ay:698:VAL:HG22	2.47	0.45
2:Az:693:THR:HG23	2:Az:698:VAL:HG22	1.98	0.45
2:BA:165:ARG:O	2:BE:362:LEU:HD21	2.17	0.45
2:BA:319:LEU:HD12	2:BA:455:GLU:O	2.17	0.45
2:BA:659:LYS:HA	2:BA:720:ILE:O	2.17	0.45
2:BB:317:ILE:CD1	2:BD:162:LYS:HB3	2.44	0.45
2:BC:360:MET:HB3	2:BE:165:ARG:HG3	1.99	0.45
2:BC:407:ASN:OD1	2:BC:408:VAL:N	2.50	0.45
2:BC:465:ARG:HH12	2:BD:689:VAL:CA	2.30	0.45
2:BD:407:ASN:OD1	2:BD:408:VAL:N	2.50	0.45
2:BE:288:LYS:C	2:BE:414:ARG:HG3	2.42	0.45
2:BE:549:PHE:CE2	2:BE:674:PRO:HG3	2.52	0.45
2:BE:602:TYR:HE2	2:BE:606:LEU:HD22	1.82	0.45
2:BF:159:TYR:HD1	2:BF:160:ASP:H	1.65	0.45
2:BF:350:GLN:O	2:BF:361:THR:N	2.29	0.45
2:BF:492:PRO:HA	2:BF:700:LYS:O	2.17	0.45
2:BF:619:CYS:N	2:BF:645:ASN:O	2.31	0.45
2:BF:661:PHE:CE1	2:BF:719:LEU:HD13	2.52	0.45
2:BG:203:VAL:O	2:BG:478:GLN:HA	2.17	0.45
8:a:68:PHE:CZ	8:a:275:LYS:HD3	2.51	0.45
2:A0:468:ARG:HH12	2:A5:697:GLN:NE2	1.99	0.44
2:A3:586:MET:O	2:A3:590:ARG:HG3	2.16	0.44
2:Ar:493:ARG:HB3	2:Ar:497:TRP:CB	2.47	0.44
2:Au:161:GLN:CD	2:BG:497:TRP:HH2	2.26	0.44
2:Au:493:ARG:HD2	2:Au:497:TRP:CG	2.52	0.44
2:Av:370:PHE:HA	2:Av:396:ALA:O	2.17	0.44
2:Ax:211:PHE:HE1	2:Ax:473:ASP:HB2	1.82	0.44
2:Ay:410:LYS:HA	2:BE:225:TRP:CH2	2.52	0.44
2:BA:175:ASN:OD1	2:BF:208:PRO:HD2	2.17	0.44
2:BA:475:ASN:HD21	2:BA:477:LYS:HE3	1.82	0.44
2:BB:291:ASP:CG	2:BD:159:TYR:HA	2.41	0.44
2:BB:349:PHE:CG	2:BD:164:LEU:HA	2.51	0.44
2:BD:321:LYS:HD2	2:BD:455:GLU:OE1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BD:482:ALA:O	2:BD:709:ARG:HD2	2.16	0.44
2:BE:239:VAL:O	2:BE:470:LYS:NZ	2.49	0.44
2:BE:270:ARG:HE	2:BE:281:THR:HG23	1.82	0.44
2:BH:493:ARG:HD3	2:BH:493:ARG:HA	1.76	0.44
3:Ck:234:TRP:CE2	3:Ck:238:MET:HG3	2.52	0.44
3:Ck:719:MET:SD	3:Ck:892:TRP:HB3	2.58	0.44
3:Ck:778:LEU:H	3:Ck:790:HIS:HE1	1.63	0.44
2:A3:159:TYR:HE2	2:Ar:227:ARG:HH21	1.63	0.44
2:A4:493:ARG:HD2	2:A4:497:TRP:CD2	2.52	0.44
2:A4:562:ASN:HA	2:A4:721:ASN:HB2	1.98	0.44
2:A5:307:SER:HA	2:A5:466:ARG:HH12	1.82	0.44
2:A5:587:ASN:HB3	2:A6:729:TYR:CE2	2.53	0.44
2:A7:408:VAL:HG21	2:A9:164:LEU:HD21	1.97	0.44
2:A9:221:THR:HA	2:Ar:260:TYR:OH	2.17	0.44
2:A9:680:PHE:CZ	2:A9:708:CYS:HB2	2.52	0.44
2:Ar:517:ASN:N	2:Ar:517:ASN:OD1	2.50	0.44
2:At:319:LEU:HD12	2:At:455:GLU:O	2.18	0.44
2:Au:472:LEU:HD13	2:Av:506:VAL:HG12	1.99	0.44
2:Ax:559:GLU:O	2:Ax:718:GLY:HA2	2.18	0.44
2:Ay:694:ARG:HB2	2:Ay:697:GLN:CG	2.46	0.44
2:Az:687:VAL:HG22	2:Az:704:VAL:HG22	1.99	0.44
2:BA:174:PHE:HE2	2:BF:229:PRO:HB2	1.82	0.44
2:BA:492:PRO:HD3	2:BF:213:HIS:HA	1.98	0.44
2:BC:289:LEU:HD12	2:BC:413:LEU:O	2.16	0.44
2:BD:194:LEU:HD13	2:BD:199:ILE:O	2.17	0.44
2:BF:190:ASN:O	2:BF:680:PHE:N	2.35	0.44
2:BH:347:ASN:HB3	2:BH:364:PHE:CE1	2.53	0.44
7:R:49:ASP:OD2	7:R:52:TYR:N	2.37	0.44
8:a:117:LEU:HD21	8:a:204:VAL:HG12	1.99	0.44
2:A0:288:LYS:O	2:A0:414:ARG:HG3	2.17	0.44
2:A0:328:SER:HB2	2:A0:385:ALA:HB1	1.99	0.44
2:A0:586:MET:O	2:A0:590:ARG:HG3	2.17	0.44
2:A1:289:LEU:HD12	2:A1:413:LEU:H	1.82	0.44
2:A1:361:THR:HA	2:A1:405:SER:HA	1.98	0.44
2:A2:470:LYS:HB2	2:A3:489:PHE:HD2	1.82	0.44
2:A6:694:ARG:HB2	2:A6:697:GLN:CG	2.47	0.44
2:A7:270:ARG:HE	2:A7:281:THR:HG23	1.81	0.44
2:A9:623:THR:OG1	2:A9:624:ASP:N	2.49	0.44
2:A9:685:GLU:HG2	2:A9:706:PRO:HA	1.99	0.44
2:Ar:190:ASN:O	2:Ar:680:PHE:N	2.41	0.44
2:As:694:ARG:HB2	2:As:697:GLN:HE21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AU:180:ARG:HA	2:AU:512:ASN:HB3	1.99	0.44
2:AU:336:TYR:O	2:AU:378:VAL:HG23	2.18	0.44
2:AU:651:ASN:HD22	2:AU:653:ASN:HB2	1.81	0.44
2:AV:473:ASP:OD1	2:AV:474:PHE:N	2.49	0.44
2:AW:319:LEU:HA	2:AW:456:LEU:HD23	2.00	0.44
2:AX:505:ASP:O	2:AX:509:GLN:HG2	2.18	0.44
2:AX:680:PHE:CZ	2:AX:708:CYS:HB2	2.52	0.44
2:AY:492:PRO:HA	2:AY:700:LYS:O	2.18	0.44
2:AY:623:THR:OG1	2:AY:624:ASP:N	2.47	0.44
2:BA:503:ASP:HA	2:BF:472:LEU:HB2	2.00	0.44
2:BA:594:TYR:CD2	2:BB:629:GLN:HB3	2.53	0.44
2:BD:623:THR:OG1	2:BD:624:ASP:N	2.48	0.44
2:BE:273:GLU:HA	2:BE:277:VAL:O	2.17	0.44
2:BE:345:ILE:HG22	2:BE:346:THR:HG23	1.99	0.44
2:BF:617:PRO:HG2	2:BF:644:PHE:CD1	2.52	0.44
3:CK:748:LYS:HB2	3:CK:751:GLU:CD	2.42	0.44
7:R:81:ASN:ND2	7:R:114:TRP:O	2.50	0.44
8:a:226:TYR:OH	8:a:236:ILE:HD12	2.18	0.44
2:A0:328:SER:HA	2:A0:446:ASP:O	2.17	0.44
2:A1:162:LYS:NZ	2:AY:461:ASN:OD1	2.50	0.44
2:A1:273:GLU:HA	2:A1:277:VAL:O	2.17	0.44
2:A1:351:LYS:HD2	2:A1:352:SER:H	1.81	0.44
2:A1:695:ASN:N	2:A1:695:ASN:OD1	2.47	0.44
2:A2:482:ALA:CB	2:A3:167:MET:HE2	2.38	0.44
2:A3:623:THR:OG1	2:A3:624:ASP:N	2.48	0.44
2:A3:657:ARG:HD3	2:A3:657:ARG:HA	1.74	0.44
2:A4:184:MET:HE3	2:A4:519:MET:HE1	1.99	0.44
2:A5:219:ASP:HA	2:BC:252:ARG:HE	1.81	0.44
2:A5:558:PHE:HA	2:A5:717:LEU:O	2.18	0.44
2:A6:561:ILE:O	2:A6:720:ILE:HA	2.18	0.44
2:A7:657:ARG:HA	2:A7:657:ARG:HD3	1.76	0.44
2:A8:494:PRO:HD2	2:A8:497:TRP:HB2	1.98	0.44
2:A8:740:ASN:N	2:A9:737:VAL:O	2.50	0.44
2:A9:298:ASP:O	2:A9:302:LEU:HG	2.17	0.44
2:A9:301:ILE:HD11	2:A9:460:ARG:HH22	1.81	0.44
2:A9:562:ASN:HA	2:A9:721:ASN:HB2	1.99	0.44
2:AT:336:TYR:O	2:AT:378:VAL:HG23	2.16	0.44
2:AU:692:VAL:N	2:AU:699:SER:O	2.38	0.44
2:AV:470:LYS:HB2	2:AW:489:PHE:HD2	1.83	0.44
2:AW:493:ARG:HD2	2:AW:497:TRP:CD2	2.52	0.44
2:AY:328:SER:HA	2:AY:446:ASP:O	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Az:221:THR:HA	2:BD:260:TYR:OH	2.18	0.44
2:Az:493:ARG:HD3	2:Az:493:ARG:HA	1.78	0.44
2:BA:736:PRO:HB2	2:BB:734:LYS:CG	2.33	0.44
2:BB:204:SER:O	2:BC:171:SER:HA	2.17	0.44
2:BB:549:PHE:CE2	2:BB:674:PRO:HG3	2.52	0.44
2:BB:562:ASN:HA	2:BB:721:ASN:HB2	1.98	0.44
2:BC:558:PHE:HD1	2:BC:717:LEU:HB3	1.81	0.44
2:BD:203:VAL:CA	2:BE:171:SER:HB2	2.38	0.44
2:BE:249:PRO:O	2:BE:281:THR:HB	2.17	0.44
2:BE:290:ILE:HB	2:BE:292:MET:SD	2.58	0.44
2:BE:454:TYR:N	2:BE:454:TYR:CD1	2.85	0.44
2:BH:247:LEU:HD12	2:BH:458:ILE:HG22	2.00	0.44
3:Ck:774:TYR:CD1	3:Ck:792:PRO:HD3	2.52	0.44
2:A0:530:LEU:HD22	2:A0:558:PHE:HB2	1.99	0.44
2:A3:322:ILE:HG13	2:A3:339:PHE:HB2	1.98	0.44
2:A3:517:ASN:OD1	2:A3:517:ASN:N	2.48	0.44
2:A3:661:PHE:CE1	2:A3:719:LEU:HD13	2.52	0.44
2:A5:161:GLN:O	2:A9:358:ARG:NE	2.49	0.44
2:A6:640:VAL:HG23	2:A7:631:LEU:HB2	1.99	0.44
2:A7:464:ASN:CG	2:A9:158:SER:HB2	2.42	0.44
2:A7:736:PRO:HB2	2:A8:734:LYS:HG2	1.99	0.44
2:A8:581:VAL:O	2:A8:585:ILE:HG13	2.18	0.44
2:As:159:TYR:HD1	2:Aw:409:GLU:O	2.00	0.44
2:At:311:ASP:OD2	2:At:466:ARG:NH1	2.51	0.44
2:Aw:235:MET:HE1	2:Aw:601:GLY:HA2	1.99	0.44
2:Aw:285:ALA:O	2:Aw:454:TYR:HE1	2.00	0.44
2:Ay:657:ARG:HD3	2:Ay:657:ARG:HA	1.71	0.44
2:BA:217:ASN:ND2	2:BA:221:THR:OG1	2.50	0.44
2:BB:266:ILE:HG22	2:BB:267:VAL:HG23	2.00	0.44
2:BC:275:LYS:NZ	2:BC:467:GLU:OE1	2.40	0.44
2:BC:360:MET:O	2:BC:406:SER:N	2.50	0.44
2:BC:491:ILE:CD1	2:BC:503:ASP:HB3	2.48	0.44
2:BE:205:PHE:HZ	2:BE:553:LEU:HD21	1.83	0.44
2:BE:349:PHE:CG	2:BE:362:LEU:HB2	2.53	0.44
2:BE:562:ASN:HA	2:BE:721:ASN:HB2	1.99	0.44
2:BE:563:LEU:HB3	2:BE:721:ASN:O	2.17	0.44
2:BF:651:ASN:HB3	2:BF:656:LEU:CD1	2.48	0.44
2:BG:680:PHE:CZ	2:BG:708:CYS:HB2	2.53	0.44
2:BH:651:ASN:HB3	2:BH:656:LEU:CD1	2.48	0.44
5:O:110:VAL:HG21	5:O:133:LEU:HD13	1.99	0.44
2:A0:472:LEU:HB2	2:A5:491:ILE:HD11	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:493:ARG:HD3	2:A0:493:ARG:HA	1.80	0.44
2:A1:180:ARG:HG3	2:A1:515:PHE:CD2	2.53	0.44
2:A4:529:ALA:O	2:A4:533:VAL:HG23	2.16	0.44
2:A5:219:ASP:OD1	2:A5:220:GLY:N	2.51	0.44
2:A6:184:MET:HE3	2:A6:519:MET:HE1	1.99	0.44
2:A6:358:ARG:HD3	2:A6:358:ARG:HA	1.70	0.44
2:A6:358:ARG:HH21	2:A8:161:GLN:C	2.16	0.44
2:A7:373:GLU:OE1	2:A7:393:LYS:HG2	2.16	0.44
2:A8:190:ASN:O	2:A8:680:PHE:N	2.42	0.44
2:A9:235:MET:HE1	2:A9:601:GLY:HA2	1.99	0.44
2:As:687:VAL:HG22	2:As:704:VAL:HG22	1.99	0.44
2:At:211:PHE:O	2:At:471:HIS:HB3	2.18	0.44
2:At:560:GLU:HA	2:At:719:LEU:O	2.18	0.44
2:Au:493:ARG:HB3	2:Au:497:TRP:CB	2.47	0.44
2:Av:492:PRO:HA	2:Av:700:LYS:O	2.18	0.44
2:Aw:321:LYS:HA	2:Aw:339:PHE:O	2.18	0.44
2:Aw:351:LYS:HZ3	2:Aw:357:PHE:C	2.25	0.44
2:Ay:302:LEU:O	2:BF:696:GLY:N	2.50	0.44
2:Ay:306:TYR:HE2	2:BE:215:ARG:HB2	1.82	0.44
2:Ay:685:GLU:HG2	2:Ay:706:PRO:HA	1.98	0.44
2:Az:228:ARG:HH11	2:Az:239:VAL:HA	1.83	0.44
2:BA:353:LEU:HD23	2:BC:165:ARG:HH12	1.83	0.44
2:BA:692:VAL:CG2	2:BF:468:ARG:HE	2.13	0.44
2:BB:529:ALA:O	2:BB:533:VAL:HG23	2.18	0.44
2:BC:205:PHE:CE2	2:BD:173:VAL:HB	2.53	0.44
2:BE:347:ASN:OD1	2:BE:347:ASN:N	2.51	0.44
2:BF:314:ASP:OD1	2:BF:315:ALA:N	2.43	0.44
3:Ck:275:ARG:HE	3:Ck:279:GLU:HG3	1.82	0.44
2:A4:304:ASN:ND2	2:Ay:694:ARG:HH11	2.16	0.44
2:A7:235:MET:HE1	2:A7:601:GLY:HA2	1.99	0.44
2:A7:469:GLY:HA3	2:A8:489:PHE:HA	1.99	0.44
2:A7:651:ASN:HD22	2:A7:653:ASN:HB2	1.83	0.44
2:A8:493:ARG:HA	2:A8:493:ARG:HD3	1.76	0.44
2:As:164:LEU:HD13	2:Aw:360:MET:HG2	1.99	0.44
2:Av:694:ARG:HB2	2:Av:697:GLN:CG	2.47	0.44
2:Ay:692:VAL:O	2:Ay:699:SER:N	2.44	0.44
2:Az:493:ARG:HD2	2:Az:497:TRP:CG	2.53	0.44
2:BA:162:LYS:HA	2:BE:458:ILE:CB	2.47	0.44
2:BA:176:VAL:HG21	2:BF:230:LEU:C	2.43	0.44
2:BD:587:ASN:ND2	2:BE:578:ARG:NH2	2.65	0.44
2:BE:347:ASN:HB3	2:BE:364:PHE:CD1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ck:275:ARG:HH21	3:Ck:279:GLU:N	2.16	0.44
7:R:94:PHE:HA	7:R:99:ARG:O	2.18	0.44
2:A0:184:MET:HE3	2:A0:519:MET:HE1	2.00	0.44
2:A0:199:ILE:HD12	2:A5:166:ASP:O	2.17	0.44
2:A4:266:ILE:HG22	2:A4:267:VAL:HG23	1.99	0.44
2:A4:505:ASP:O	2:A4:509:GLN:HG2	2.18	0.44
2:A5:473:ASP:OD1	2:A5:474:PHE:N	2.50	0.44
2:A6:211:PHE:HE1	2:A6:473:ASP:HB2	1.83	0.44
2:A6:651:ASN:HB3	2:A6:656:LEU:CD1	2.48	0.44
2:A7:351:LYS:NZ	2:A7:356:ASP:O	2.42	0.44
2:A7:686:LEU:O	2:A7:704:VAL:HA	2.18	0.44
2:A8:369:ILE:O	2:A8:397:GLN:HA	2.18	0.44
2:Ar:214:LEU:HD21	2:Ar:223:ALA:HB1	1.99	0.44
2:Ar:323:LEU:O	2:Ar:451:LEU:HD12	2.18	0.44
2:Ar:349:PHE:HB3	2:Ar:360:MET:HB3	1.99	0.44
2:As:680:PHE:CZ	2:As:708:CYS:HB2	2.52	0.44
2:At:351:LYS:HG3	2:At:352:SER:O	2.18	0.44
2:At:367:HIS:HD2	2:At:423:TYR:CE2	2.35	0.44
2:At:535:THR:HG21	2:At:556:PRO:HB2	2.00	0.44
2:Au:678:GLY:CA	2:Au:712:ASN:HA	2.47	0.44
2:Ax:493:ARG:HD3	2:Ax:493:ARG:HA	1.84	0.44
2:Ay:529:ALA:O	2:Ay:533:VAL:HG23	2.18	0.44
2:BA:165:ARG:HH21	2:BE:362:LEU:HB3	1.83	0.44
2:BA:373:GLU:CA	2:BA:390:ILE:HG12	2.35	0.44
2:BB:211:PHE:HE1	2:BB:473:ASP:HB2	1.82	0.44
2:BB:660:ILE:O	2:BB:719:LEU:HD12	2.18	0.44
2:BB:661:PHE:CE1	2:BB:719:LEU:HD13	2.52	0.44
2:BD:250:ILE:H	2:BD:295:ILE:CG2	2.31	0.44
2:BF:231:LEU:HA	2:BF:231:LEU:HD12	1.69	0.44
2:BF:581:VAL:O	2:BF:585:ILE:HG13	2.18	0.44
2:BF:585:ILE:O	2:BF:589:ILE:HG13	2.18	0.44
2:BG:317:ILE:HG23	2:BG:458:ILE:HG12	2.00	0.44
3:Ck:775:ASP:OD1	3:Ck:776:SER:N	2.50	0.44
6:Q:156:ALA:HB3	6:Q:158:GLU:OE1	2.18	0.44
8:a:275:LYS:HB3	8:a:275:LYS:HE2	1.77	0.44
2:A0:529:ALA:O	2:A0:533:VAL:HG23	2.18	0.44
2:A0:535:THR:HG21	2:A0:556:PRO:HB2	1.99	0.44
2:A0:562:ASN:HA	2:A0:721:ASN:HB2	2.00	0.44
2:A0:651:ASN:HB3	2:A0:656:LEU:CD1	2.47	0.44
2:A1:319:LEU:HD12	2:A1:455:GLU:O	2.18	0.44
2:A1:694:ARG:HB2	2:A1:697:GLN:CG	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:202:ASP:CG	2:A2:480:ARG:HE	2.25	0.44
2:A4:680:PHE:CZ	2:A4:708:CYS:HB2	2.52	0.44
2:A8:517:ASN:OD1	2:A8:517:ASN:N	2.50	0.44
2:A9:203:VAL:O	2:A9:478:GLN:HA	2.18	0.44
2:Ar:586:MET:O	2:Ar:590:ARG:HG3	2.17	0.44
2:As:517:ASN:OD1	2:As:517:ASN:N	2.49	0.44
2:Au:517:ASN:N	2:Au:517:ASN:OD1	2.51	0.44
2:Av:350:GLN:N	2:Av:361:THR:O	2.43	0.44
2:Av:350:GLN:CD	2:Aw:480:ARG:HH11	2.26	0.44
2:Aw:561:ILE:O	2:Aw:720:ILE:HA	2.18	0.44
2:Ay:251:TYR:HD1	2:Ay:261:PHE:CD2	2.36	0.44
2:Ay:369:ILE:O	2:Ay:397:GLN:HA	2.18	0.44
2:BB:411:ALA:N	2:BD:161:GLN:CD	2.76	0.44
2:BC:179:SER:O	2:BC:512:ASN:HB3	2.17	0.44
2:BD:203:VAL:HG22	2:BE:170:TYR:C	2.43	0.44
2:BD:324:VAL:O	2:BD:336:TYR:HA	2.18	0.44
2:BE:494:PRO:HD2	2:BE:497:TRP:HB2	1.99	0.44
2:BF:519:MET:HB2	2:BF:710:PHE:CE2	2.53	0.44
2:BG:491:ILE:HD12	2:BG:503:ASP:HB3	2.00	0.44
2:BH:273:GLU:HA	2:BH:277:VAL:O	2.18	0.44
3:Ck:310:ALA:O	3:Ck:314:GLU:HG3	2.18	0.44
8:a:59:ARG:HE	8:a:202:LYS:HE3	1.83	0.44
8:a:161:MET:O	8:a:163:LYS:NZ	2.40	0.44
2:A1:428:GLN:HA	2:A2:537:ARG:HH22	1.81	0.43
2:A1:735:LEU:N	2:Az:736:PRO:O	2.42	0.43
2:A2:159:TYR:OH	2:Az:409:GLU:O	2.27	0.43
2:A3:350:GLN:N	2:A3:361:THR:O	2.41	0.43
2:A4:314:ASP:CG	2:Ay:485:LEU:HB2	2.43	0.43
2:A5:159:TYR:HB2	2:A9:309:ASN:CA	2.46	0.43
2:A5:559:GLU:CD	2:A5:595:ARG:HH12	2.25	0.43
2:A7:210:VAL:O	2:A7:227:ARG:HA	2.18	0.43
2:A7:586:MET:O	2:A7:590:ARG:HG3	2.18	0.43
2:A8:493:ARG:HB3	2:A8:497:TRP:HB3	2.00	0.43
2:Ar:179:SER:O	2:Ar:512:ASN:HB3	2.18	0.43
2:Ar:237:ASN:HA	2:As:517:ASN:ND2	2.32	0.43
2:Au:661:PHE:CE1	2:Au:719:LEU:HD13	2.53	0.43
2:Aw:336:TYR:O	2:Aw:378:VAL:HG23	2.18	0.43
2:Ax:529:ALA:O	2:Ax:533:VAL:HG23	2.18	0.43
2:Ay:237:ASN:HA	2:Az:517:ASN:ND2	2.33	0.43
2:BA:169:PRO:O	2:BF:480:ARG:O	2.35	0.43
2:BA:201:TYR:HA	2:BB:168:MET:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:506:VAL:CG1	2:BF:472:LEU:HD13	2.47	0.43
2:BB:346:THR:HA	2:BD:167:MET:SD	2.58	0.43
2:BC:202:ASP:CB	2:BD:168:MET:HE2	2.47	0.43
2:BC:359:LYS:O	2:BE:165:ARG:NH2	2.50	0.43
2:BD:288:LYS:O	2:BD:414:ARG:HG3	2.18	0.43
2:BD:517:ASN:N	2:BD:517:ASN:OD1	2.49	0.43
2:BD:657:ARG:HD3	2:BD:657:ARG:HA	1.68	0.43
2:BD:679:MET:CG	2:BD:711:VAL:HB	2.47	0.43
2:BE:250:ILE:HG23	2:BE:279:TYR:HB3	2.00	0.43
2:BE:558:PHE:CE1	2:BE:717:LEU:HD23	2.53	0.43
2:BE:559:GLU:O	2:BE:719:LEU:N	2.42	0.43
2:BE:585:ILE:HD12	2:BE:631:LEU:HD21	1.99	0.43
2:BF:323:LEU:O	2:BF:451:LEU:HD12	2.18	0.43
2:BG:273:GLU:HA	2:BG:277:VAL:O	2.17	0.43
5:O:32:TYR:HE2	5:P:130:VAL:HG11	1.83	0.43
6:Q:7:LEU:O	6:Q:147:ILE:N	2.50	0.43
6:Q:111:THR:HG21	6:Q:151:CYS:HB3	1.99	0.43
8:a:183:ARG:O	8:a:187:LYS:HG3	2.17	0.43
2:A0:365:ASP:CG	2:A0:401:GLU:HG2	2.43	0.43
2:A1:206:ARG:N	2:A2:172:VAL:O	2.51	0.43
2:A1:409:GLU:O	2:A3:159:TYR:CD1	2.70	0.43
2:A2:270:ARG:HE	2:A2:281:THR:HG23	1.83	0.43
2:A5:694:ARG:CB	2:A5:697:GLN:HE21	2.31	0.43
2:A8:473:ASP:OD1	2:A8:474:PHE:N	2.48	0.43
2:A8:549:PHE:CE2	2:A8:674:PRO:HG3	2.53	0.43
2:A9:359:LYS:C	2:A9:360:MET:HG3	2.43	0.43
2:As:292:MET:HE2	2:As:458:ILE:HD12	2.00	0.43
2:At:322:ILE:CG1	2:At:339:PHE:HB2	2.48	0.43
2:Ax:473:ASP:OD1	2:Ax:474:PHE:N	2.47	0.43
2:Ay:179:SER:O	2:Ay:512:ASN:HB3	2.18	0.43
2:Az:270:ARG:HG2	2:Az:281:THR:O	2.17	0.43
2:BA:173:VAL:HG13	2:BF:207:ARG:CG	2.48	0.43
2:BB:350:GLN:HA	2:BD:163:GLU:OE2	2.18	0.43
2:BC:581:VAL:O	2:BC:585:ILE:HG13	2.18	0.43
2:BD:314:ASP:OD1	2:BD:315:ALA:N	2.46	0.43
2:BD:678:GLY:HA2	2:BD:712:ASN:HA	1.99	0.43
2:BE:560:GLU:HG3	2:BE:719:LEU:HD23	2.01	0.43
2:BF:566:GLU:OE2	2:BF:727:LYS:HD3	2.18	0.43
2:BF:586:MET:O	2:BF:590:ARG:HG3	2.18	0.43
2:BG:657:ARG:HD3	2:BG:657:ARG:HA	1.74	0.43
2:BH:358:ARG:HD3	2:BH:358:ARG:HA	1.94	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ck:305:PRO:HG2	3:Ck:308:SER:OG	2.17	0.43
3:Ck:606:ARG:HG3	3:Ck:900:ARG:NH1	2.33	0.43
2:A1:352:SER:OG	2:A1:353:LEU:N	2.50	0.43
2:A1:473:ASP:OD1	2:A1:474:PHE:N	2.48	0.43
2:A2:651:ASN:HB3	2:A2:656:LEU:CD1	2.48	0.43
2:A4:350:GLN:CD	2:Ay:480:ARG:HH11	2.27	0.43
2:A4:687:VAL:HG22	2:A4:704:VAL:HG22	2.00	0.43
2:A5:208:PRO:HA	2:A5:474:PHE:HA	2.00	0.43
2:A7:362:LEU:O	2:A7:403:TYR:HA	2.18	0.43
2:A8:660:ILE:O	2:A8:719:LEU:HD12	2.18	0.43
2:A9:407:ASN:OD1	2:A9:408:VAL:N	2.51	0.43
2:Ar:407:ASN:OD1	2:Ar:408:VAL:N	2.51	0.43
2:As:159:TYR:CD1	2:Aw:409:GLU:HG2	2.53	0.43
2:As:672:PRO:HB3	2:As:679:MET:SD	2.59	0.43
2:At:163:GLU:OE1	2:At:164:LEU:N	2.51	0.43
2:Aw:529:ALA:O	2:Aw:533:VAL:HG23	2.17	0.43
2:Aw:562:ASN:HA	2:Aw:721:ASN:HB2	1.99	0.43
2:Ax:184:MET:HE3	2:Ax:519:MET:HE1	2.00	0.43
2:Ay:241:SER:O	2:Ay:470:LYS:HE3	2.18	0.43
2:Ay:493:ARG:HB3	2:Ay:497:TRP:CB	2.48	0.43
2:Az:216:ARG:HG3	2:BD:307:SER:HB3	2.00	0.43
2:BA:472:LEU:HB2	2:BB:491:ILE:HD11	2.00	0.43
2:BA:538:PHE:CE2	2:BF:424:ARG:HD3	2.53	0.43
2:BB:273:GLU:HA	2:BB:277:VAL:O	2.18	0.43
2:BB:370:PHE:HA	2:BB:396:ALA:O	2.17	0.43
2:BB:493:ARG:HD2	2:BB:497:TRP:CD2	2.53	0.43
2:BB:603:GLN:HB3	2:BB:604:PRO:HD3	1.99	0.43
2:BD:326:ILE:O	2:BD:334:THR:HA	2.18	0.43
2:BD:326:ILE:N	2:BD:335:SER:O	2.35	0.43
2:BD:692:VAL:O	2:BD:699:SER:N	2.47	0.43
2:BE:270:ARG:HG2	2:BE:281:THR:O	2.18	0.43
2:BE:581:VAL:O	2:BE:585:ILE:HG13	2.19	0.43
2:BF:369:ILE:O	2:BF:397:GLN:HA	2.18	0.43
2:BF:623:THR:O	2:BF:650:ASP:HA	2.18	0.43
2:BG:333:LYS:HD3	2:BG:384:GLU:HB3	2.01	0.43
2:BH:205:PHE:O	2:BH:476:MET:HA	2.18	0.43
3:Ck:202:ASP:OD1	3:Ck:202:ASP:N	2.50	0.43
3:Ck:313:VAL:HG11	3:Ck:408:LEU:HD23	2.00	0.43
2:A0:252:ARG:HA	2:A0:252:ARG:HD3	1.79	0.43
2:A1:651:ASN:HB3	2:A1:656:LEU:CD1	2.49	0.43
2:A2:164:LEU:HD21	2:Az:408:VAL:HG21	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:237:ASN:HD21	2:A3:653:ASN:HD21	1.66	0.43
2:A2:565:LEU:HD12	2:A2:725:LEU:HA	2.00	0.43
2:A3:349:PHE:CD1	2:A3:362:LEU:HB2	2.53	0.43
2:A4:651:ASN:HB3	2:A4:656:LEU:CD1	2.49	0.43
2:A5:475:ASN:HD21	2:A5:477:LYS:HE3	1.82	0.43
2:A5:530:LEU:HD22	2:A5:558:PHE:HB2	1.99	0.43
2:A6:461:ASN:HB2	2:A8:162:LYS:NZ	2.34	0.43
2:Ar:272:ILE:O	2:Ar:278:THR:HA	2.19	0.43
2:Ar:468:ARG:NH1	2:As:694:ARG:HG3	2.33	0.43
2:As:558:PHE:CD1	2:As:717:LEU:HB3	2.43	0.43
2:As:657:ARG:HA	2:As:657:ARG:HD3	1.70	0.43
2:Au:209:LEU:HD13	2:Au:227:ARG:HB3	2.01	0.43
2:Au:623:THR:OG1	2:Au:624:ASP:N	2.48	0.43
2:Av:160:ASP:HB2	2:Ax:408:VAL:O	2.17	0.43
2:Av:206:ARG:HE	2:Av:474:PHE:HB3	1.83	0.43
2:Aw:505:ASP:O	2:Aw:509:GLN:HG2	2.18	0.43
2:Ay:651:ASN:HB3	2:Ay:656:LEU:CD1	2.49	0.43
2:Az:302:LEU:HA	2:Az:305:GLY:O	2.18	0.43
2:Az:672:PRO:HB3	2:Az:679:MET:SD	2.57	0.43
2:BC:252:ARG:HA	2:BC:252:ARG:HD3	1.73	0.43
2:BD:493:ARG:HB3	2:BD:497:TRP:HB3	1.99	0.43
2:BE:603:GLN:HB3	2:BE:604:PRO:HD3	2.00	0.43
2:BG:201:TYR:O	2:BG:480:ARG:HA	2.18	0.43
3:Ck:214:ILE:O	3:Ck:329:THR:HG22	2.17	0.43
8:a:185:ILE:O	8:a:189:LEU:HG	2.19	0.43
2:A0:651:ASN:ND2	2:A0:653:ASN:HB2	2.34	0.43
2:A1:309:ASN:CA	2:A3:159:TYR:HB2	2.48	0.43
2:A2:179:SER:O	2:A2:512:ASN:HB3	2.18	0.43
2:A2:480:ARG:HG2	2:A3:167:MET:SD	2.57	0.43
2:A3:297:GLU:OE2	2:A3:307:SER:OG	2.14	0.43
2:A3:679:MET:HG3	2:A3:711:VAL:HB	2.01	0.43
2:A4:314:ASP:OD1	2:Ay:485:LEU:HD13	2.19	0.43
2:A4:471:HIS:CE1	2:Ay:492:PRO:HD3	2.53	0.43
2:A5:349:PHE:HB3	2:A5:360:MET:HB3	2.00	0.43
2:A6:289:LEU:HA	2:A6:413:LEU:O	2.18	0.43
2:A8:651:ASN:HB3	2:A8:656:LEU:CD1	2.48	0.43
2:A9:651:ASN:HB3	2:A9:656:LEU:CD1	2.48	0.43
2:A9:697:GLN:HB2	2:BH:464:ASN:HB3	2.00	0.43
2:Au:328:SER:HA	2:Au:446:ASP:O	2.17	0.43
2:Av:349:PHE:CZ	2:Av:413:LEU:HD21	2.53	0.43
2:Av:365:ASP:CG	2:Av:401:GLU:HG2	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ax:685:GLU:HG2	2:Ax:706:PRO:HA	2.01	0.43
2:Ay:202:ASP:CG	2:Ay:480:ARG:HE	2.24	0.43
2:Ay:691:GLN:CB	2:Ay:700:LYS:HG2	2.46	0.43
2:Az:462:ASN:ND2	2:Az:467:GLU:O	2.51	0.43
2:BA:176:VAL:HB	2:BF:230:LEU:HG	1.99	0.43
2:BA:271:ASP:OD1	2:BA:280:LYS:HG2	2.17	0.43
2:BB:162:LYS:CE	2:BF:312:ALA:HB3	2.47	0.43
2:BB:617:PRO:HG2	2:BB:644:PHE:CD1	2.54	0.43
2:BB:623:THR:OG1	2:BB:624:ASP:N	2.50	0.43
2:BC:430:ASN:OD1	2:BD:537:ARG:NH1	2.51	0.43
2:BC:549:PHE:HE2	2:BC:674:PRO:HG3	1.83	0.43
2:BC:656:LEU:HD23	2:BC:656:LEU:HA	1.86	0.43
2:BD:181:LEU:HD21	2:BD:515:PHE:HB3	2.00	0.43
2:BE:441:LYS:O	2:BE:445:GLU:HG3	2.18	0.43
2:BE:651:ASN:ND2	2:BE:653:ASN:HB2	2.33	0.43
2:BF:549:PHE:CE2	2:BF:674:PRO:HG3	2.54	0.43
2:BG:301:ILE:HD11	2:BG:460:ARG:HH22	1.83	0.43
2:A0:202:ASP:HA	2:A0:480:ARG:HA	2.00	0.43
2:A0:480:ARG:HD3	2:A5:167:MET:SD	2.59	0.43
2:A1:562:ASN:HA	2:A1:721:ASN:HB2	1.99	0.43
2:A3:322:ILE:CG1	2:A3:339:PHE:HB2	2.49	0.43
2:A4:497:TRP:NE1	2:A4:499:GLU:O	2.51	0.43
2:A5:165:ARG:CZ	2:A9:361:THR:O	2.67	0.43
2:A5:693:THR:CG2	2:A5:698:VAL:HG22	2.46	0.43
2:A6:208:PRO:HA	2:A6:474:PHE:HA	2.00	0.43
2:A6:407:ASN:OD1	2:A6:408:VAL:N	2.51	0.43
2:A7:565:LEU:HD12	2:A7:725:LEU:HA	2.01	0.43
2:A9:480:ARG:HB3	2:Ar:354:GLU:OE2	2.19	0.43
2:Ar:469:GLY:HA3	2:As:489:PHE:HA	2.00	0.43
2:As:201:TYR:O	2:As:480:ARG:HA	2.17	0.43
2:As:473:ASP:OD1	2:As:474:PHE:N	2.50	0.43
2:At:686:LEU:O	2:At:704:VAL:HA	2.19	0.43
2:Au:373:GLU:OE1	2:Au:393:LYS:HG2	2.18	0.43
2:Au:494:PRO:HD2	2:Au:497:TRP:HB2	2.01	0.43
2:Av:198:GLN:OE1	2:Aw:168:MET:HB2	2.18	0.43
2:Aw:273:GLU:HA	2:Aw:277:VAL:O	2.18	0.43
2:Ax:289:LEU:HA	2:Ax:413:LEU:O	2.19	0.43
2:Ax:651:ASN:HB3	2:Ax:656:LEU:CD1	2.49	0.43
2:Az:206:ARG:HE	2:Az:474:PHE:HB3	1.83	0.43
2:Az:322:ILE:HG13	2:Az:339:PHE:HB2	2.00	0.43
2:Az:560:GLU:HG3	2:Az:719:LEU:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:173:VAL:CG2	2:BF:205:PHE:HB3	2.49	0.43
2:BB:369:ILE:O	2:BB:397:GLN:HA	2.17	0.43
2:BB:495:LEU:HD23	2:BB:700:LYS:HG3	2.00	0.43
2:BB:657:ARG:HD3	2:BB:657:ARG:HA	1.72	0.43
2:BC:247:LEU:HD11	2:BC:313:LEU:HD21	2.01	0.43
2:BC:307:SER:CB	2:BE:158:SER:HB3	2.29	0.43
2:BC:619:CYS:O	2:BC:647:VAL:N	2.50	0.43
2:BE:464:ASN:N	2:BE:464:ASN:OD1	2.51	0.43
2:BF:211:PHE:HB2	2:BF:226:VAL:O	2.18	0.43
2:BG:314:ASP:OD1	2:BG:315:ALA:N	2.46	0.43
3:Ck:175:ILE:O	3:Ck:179:VAL:HG23	2.19	0.43
4:G:187:ASP:OD1	4:G:188:LEU:N	2.51	0.43
2:A0:358:ARG:HD3	2:A0:358:ARG:HA	1.63	0.43
2:A0:561:ILE:O	2:A0:720:ILE:HA	2.19	0.43
2:A0:632:GLN:HA	2:A9:638:ARG:O	2.19	0.43
2:A3:494:PRO:HB2	2:A3:496:ASP:OD1	2.19	0.43
2:A4:465:ARG:HH12	2:Ay:689:VAL:N	2.17	0.43
2:A7:617:PRO:HG2	2:A7:644:PHE:CD1	2.53	0.43
2:A7:656:LEU:HD23	2:A7:656:LEU:HA	1.86	0.43
2:As:369:ILE:O	2:As:397:GLN:HA	2.18	0.43
2:At:661:PHE:CE1	2:At:719:LEU:HD13	2.53	0.43
2:Av:638:ARG:O	2:Aw:632:GLN:HA	2.19	0.43
2:Ax:322:ILE:HA	2:Ax:454:TYR:HA	2.00	0.43
2:Az:559:GLU:O	2:Az:718:GLY:HA2	2.19	0.43
2:BB:570:GLN:HB2	2:BC:732:ASN:OD1	2.18	0.43
2:BC:313:LEU:CD1	2:BE:162:LYS:HE3	2.49	0.43
2:BD:461:ASN:ND2	2:BF:160:ASP:OD2	2.51	0.43
2:BE:693:THR:HG23	2:BE:698:VAL:HG22	2.01	0.43
2:BG:676:THR:O	2:BG:713:ASN:HB2	2.19	0.43
2:BH:490:SER:HA	2:BH:702:THR:O	2.19	0.43
2:BH:559:GLU:O	2:BH:718:GLY:HA2	2.17	0.43
3:Ck:442:PHE:CZ	3:Ck:459:LYS:HA	2.53	0.43
3:Ck:797:ALA:O	3:Ck:801:GLU:HG2	2.19	0.43
5:O:21:GLN:OE1	5:O:21:GLN:N	2.52	0.43
6:Q:41:ASN:HD21	6:Q:45:PHE:HE2	1.67	0.43
2:A0:159:TYR:HB3	2:Ax:493:ARG:HH11	1.83	0.43
2:A0:200:GLY:O	2:A5:168:MET:HB3	2.19	0.43
2:A0:201:TYR:O	2:A0:480:ARG:HG3	2.18	0.43
2:A0:205:PHE:HZ	2:A0:553:LEU:HD21	1.83	0.43
2:A0:651:ASN:HD22	2:A0:653:ASN:HB2	1.83	0.43
2:A1:408:VAL:HG11	2:A3:162:LYS:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:694:ARG:HD3	2:A1:694:ARG:HA	1.73	0.43
2:A2:672:PRO:HB3	2:A2:679:MET:SD	2.59	0.43
2:A3:473:ASP:OD1	2:A3:474:PHE:N	2.48	0.43
2:A5:203:VAL:HA	2:A6:170:TYR:O	2.19	0.43
2:A6:203:VAL:O	2:A6:478:GLN:HA	2.18	0.43
2:A6:651:ASN:HD22	2:A6:653:ASN:HB2	1.83	0.43
2:A7:493:ARG:HD2	2:A7:497:TRP:CG	2.53	0.43
2:A8:216:ARG:HB2	2:BH:307:SER:HB2	2.01	0.43
2:A9:298:ASP:OD2	2:A9:300:SER:OG	2.27	0.43
2:A9:356:ASP:OD1	2:A9:357:PHE:N	2.52	0.43
2:Ar:170:TYR:O	2:Aw:204:SER:N	2.45	0.43
2:Ar:205:PHE:HZ	2:Ar:553:LEU:HD21	1.84	0.43
2:As:549:PHE:CE2	2:As:674:PRO:HG3	2.54	0.43
2:At:306:TYR:CD2	2:BA:215:ARG:HG3	2.53	0.43
2:Au:493:ARG:HA	2:Au:493:ARG:HD3	1.78	0.43
2:Av:200:GLY:HA3	2:Av:481:TYR:O	2.18	0.43
2:Aw:577:ARG:HH12	2:Aw:732:ASN:HA	1.82	0.43
2:Aw:680:PHE:CZ	2:Aw:708:CYS:HB2	2.54	0.43
2:Ay:305:GLY:HA3	2:BF:697:GLN:O	2.18	0.43
2:Ay:493:ARG:HD2	2:Ay:497:TRP:CG	2.54	0.43
2:Ay:565:LEU:HD12	2:Ay:725:LEU:HA	2.01	0.43
2:BC:693:THR:HA	2:BC:698:VAL:HA	1.99	0.43
2:BD:190:ASN:ND2	2:BD:668:ILE:O	2.52	0.43
2:BE:213:HIS:N	2:BE:471:HIS:HD2	2.17	0.43
2:BF:651:ASN:HD22	2:BF:653:ASN:HB2	1.83	0.43
2:A0:505:ASP:O	2:A0:509:GLN:HG2	2.18	0.43
2:A0:545:GLN:HB2	2:A9:368:SER:OG	2.18	0.43
2:A1:408:VAL:HG12	2:A3:162:LYS:HB2	2.00	0.43
2:A1:430:ASN:OD1	2:A2:537:ARG:HG3	2.19	0.43
2:A1:517:ASN:ND2	2:Az:237:ASN:HA	2.33	0.43
2:A2:202:ASP:O	2:A3:170:TYR:N	2.52	0.43
2:A4:495:LEU:HD23	2:A4:700:LYS:HG3	2.00	0.43
2:A8:216:ARG:HG3	2:BH:307:SER:HB3	2.01	0.43
2:A8:364:PHE:O	2:A8:402:VAL:N	2.35	0.43
2:A9:208:PRO:HA	2:A9:474:PHE:HA	2.00	0.43
2:A9:246:ASP:HA	2:A9:459:ARG:HA	2.01	0.43
2:Ar:172:VAL:O	2:Aw:206:ARG:N	2.52	0.43
2:Ar:321:LYS:HB2	2:Ar:455:GLU:HB3	2.00	0.43
2:Ar:328:SER:HA	2:Ar:446:ASP:O	2.19	0.43
2:As:305:GLY:HA3	2:BG:695:ASN:C	2.44	0.43
2:As:493:ARG:HD2	2:As:497:TRP:CG	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:At:618:ARG:HD3	2:At:647:VAL:HG21	1.99	0.43
2:Au:506:VAL:HG12	2:Ax:472:LEU:HD13	1.99	0.43
2:Av:159:TYR:CE2	2:Ax:409:GLU:HG2	2.53	0.43
2:Av:349:PHE:CD1	2:Av:362:LEU:HB2	2.53	0.43
2:Aw:483:ILE:HD11	2:Aw:681:LEU:HB3	2.01	0.43
2:Ay:581:VAL:O	2:Ay:585:ILE:HG13	2.19	0.43
2:BA:560:GLU:CD	2:BA:719:LEU:HD23	2.44	0.43
2:BA:580:GLU:HG2	2:BB:575:ALA:H	1.84	0.43
2:BB:162:LYS:CD	2:BF:312:ALA:HB3	2.48	0.43
2:BB:237:ASN:HA	2:BC:517:ASN:HD22	1.84	0.43
2:BB:485:LEU:HG	2:BB:707:ARG:HG2	2.01	0.43
2:BD:321:LYS:HB2	2:BD:455:GLU:HB3	1.99	0.43
2:BD:519:MET:HB2	2:BD:710:PHE:CE2	2.54	0.43
2:BD:618:ARG:HB3	2:BD:665:SER:O	2.18	0.43
2:BD:738:GLN:HB2	2:BE:734:LYS:HD3	2.01	0.43
2:BG:494:PRO:HD2	2:BG:497:TRP:HB2	2.01	0.43
3:Ck:361:GLU:CD	5:P:104:LEU:HD11	2.44	0.43
7:R:94:PHE:HB2	7:R:100:ARG:CG	2.49	0.43
2:A0:354:GLU:OE2	2:BD:480:ARG:HB3	2.19	0.43
2:A1:687:VAL:HG22	2:A1:704:VAL:HG22	2.00	0.43
2:A2:373:GLU:HB2	2:A2:390:ILE:HG23	1.99	0.43
2:A3:479:GLU:OE1	2:A3:481:TYR:OH	2.28	0.43
2:A4:486:LEU:HB2	2:A4:706:PRO:HG2	2.00	0.43
2:A5:160:ASP:CG	2:A9:312:ALA:HA	2.44	0.43
2:A5:215:ARG:NE	2:BC:306:TYR:HB2	2.33	0.43
2:A6:505:ASP:O	2:A6:509:GLN:HG2	2.18	0.43
2:A7:321:LYS:HA	2:A7:339:PHE:O	2.19	0.43
2:A7:373:GLU:HB2	2:A7:390:ILE:HG23	2.01	0.43
2:A8:470:LYS:HB2	2:A9:489:PHE:HD2	1.82	0.43
2:Ar:493:ARG:HB3	2:Ar:497:TRP:HB3	2.01	0.43
2:Ar:661:PHE:CE1	2:Ar:719:LEU:HD13	2.53	0.43
2:Au:586:MET:O	2:Au:590:ARG:HG3	2.18	0.43
2:Au:679:MET:HG3	2:Au:711:VAL:HB	2.00	0.43
2:Av:180:ARG:HA	2:Av:512:ASN:HB3	2.01	0.43
2:Aw:328:SER:HA	2:Aw:446:ASP:O	2.19	0.43
2:Aw:356:ASP:OD1	2:Aw:357:PHE:N	2.52	0.43
2:Ay:466:ARG:HH21	2:BF:697:GLN:HB2	1.83	0.43
2:Ay:489:PHE:HB2	2:Ay:507:LEU:HD22	2.00	0.43
2:BA:172:VAL:HG12	2:BF:552:TYR:HB2	2.01	0.43
2:BA:178:ALA:HB2	2:BF:234:PHE:HE1	1.84	0.43
2:BA:651:ASN:HD22	2:BA:653:ASN:HB2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:201:TYR:CZ	2:BC:168:MET:SD	3.12	0.43
2:BB:291:ASP:O	2:BB:295:ILE:HG13	2.19	0.43
2:BB:581:VAL:O	2:BB:585:ILE:HG13	2.19	0.43
2:BC:211:PHE:HE1	2:BC:473:ASP:HB2	1.81	0.43
2:BC:314:ASP:CG	2:BD:485:LEU:H	2.27	0.43
2:BE:323:LEU:HB3	2:BE:453:GLY:CA	2.49	0.43
2:BH:322:ILE:HG13	2:BH:339:PHE:HB2	2.01	0.43
2:BH:407:ASN:OD1	2:BH:408:VAL:N	2.52	0.43
2:BH:549:PHE:CE2	2:BH:674:PRO:HG3	2.54	0.43
5:P:5:ASP:OD1	5:P:5:ASP:N	2.51	0.43
7:R:138:LEU:HB2	7:R:143:MET:HG3	2.01	0.43
8:a:36:THR:O	8:a:40:ASN:ND2	2.51	0.43
2:A0:172:VAL:N	2:A9:204:SER:O	2.47	0.42
2:A1:489:PHE:O	2:A1:703:MET:HA	2.18	0.42
2:A4:273:GLU:HA	2:A4:277:VAL:O	2.19	0.42
2:A4:350:GLN:O	2:Az:165:ARG:CD	2.64	0.42
2:A6:468:ARG:HB2	2:A7:490:SER:OG	2.18	0.42
2:A7:252:ARG:HD3	2:A7:252:ARG:HA	1.80	0.42
2:A7:336:TYR:O	2:A7:378:VAL:HG23	2.18	0.42
2:A7:505:ASP:O	2:A7:509:GLN:HG2	2.19	0.42
2:A9:345:ILE:HG23	2:A9:346:THR:HG23	2.00	0.42
2:Ar:336:TYR:O	2:Ar:378:VAL:HG23	2.18	0.42
2:Ar:695:ASN:HD21	2:Aw:215:ARG:HD2	1.84	0.42
2:As:370:PHE:HA	2:As:396:ALA:O	2.19	0.42
2:Au:529:ALA:O	2:Au:533:VAL:HG23	2.19	0.42
2:Au:581:VAL:O	2:Au:585:ILE:HG13	2.19	0.42
2:Av:285:ALA:O	2:Av:454:TYR:HE1	2.02	0.42
2:Aw:319:LEU:HD11	2:Aw:454:TYR:HB2	2.01	0.42
2:Ax:336:TYR:O	2:Ax:378:VAL:HG23	2.19	0.42
2:Ay:306:TYR:O	2:BF:697:GLN:CD	2.62	0.42
2:Ay:695:ASN:OD1	2:Ay:695:ASN:N	2.52	0.42
2:BA:210:VAL:O	2:BA:227:ARG:HA	2.19	0.42
2:BA:469:GLY:HA3	2:BB:488:PRO:O	2.19	0.42
2:BB:203:VAL:O	2:BB:478:GLN:HA	2.19	0.42
2:BC:651:ASN:HD22	2:BC:653:ASN:HB2	1.84	0.42
2:BC:682:TYR:OH	2:BC:684:PRO:HA	2.17	0.42
2:BE:266:ILE:HG22	2:BE:267:VAL:HG23	2.01	0.42
2:BF:272:ILE:O	2:BF:278:THR:HA	2.19	0.42
2:BH:489:PHE:O	2:BH:703:MET:HA	2.18	0.42
3:Ck:237:ARG:NH2	3:Ck:287:PRO:HB3	2.34	0.42
8:a:235:MET:O	8:a:239:ILE:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:29:GLN:NE2	1:B:33:PRO:O	2.51	0.42
2:A0:471:HIS:ND1	2:A5:490:SER:O	2.51	0.42
2:A1:158:SER:HB3	2:BF:700:LYS:HE3	2.00	0.42
2:A2:424:ARG:HH22	2:A3:543:ASP:CG	2.25	0.42
2:A4:367:HIS:CE1	2:Ay:545:GLN:NE2	2.87	0.42
2:A4:657:ARG:HA	2:A4:657:ARG:HD3	1.77	0.42
2:A5:492:PRO:HA	2:A5:700:LYS:O	2.19	0.42
2:A5:651:ASN:HD22	2:A5:653:ASN:HB2	1.84	0.42
2:Ar:298:ASP:OD2	2:Ar:300:SER:OG	2.23	0.42
2:As:479:GLU:OE1	2:As:481:TYR:OH	2.33	0.42
2:Au:307:SER:HA	2:Au:466:ARG:HH12	1.84	0.42
2:Au:736:PRO:HG3	2:Av:732:ASN:HD22	1.82	0.42
2:Av:158:SER:O	2:Ax:293:ILE:HD12	2.19	0.42
2:Av:584:ALA:HB2	2:Aw:574:THR:HG21	2.02	0.42
2:Aw:651:ASN:HB3	2:Aw:656:LEU:CD1	2.49	0.42
2:Ax:273:GLU:HA	2:Ax:277:VAL:O	2.18	0.42
2:Ay:314:ASP:OD1	2:Ay:315:ALA:N	2.47	0.42
2:Ay:692:VAL:N	2:Ay:699:SER:O	2.36	0.42
2:BA:172:VAL:HB	2:BF:552:TYR:CD2	2.54	0.42
2:BA:618:ARG:HD2	6:Q:22:ARG:HH22	1.84	0.42
2:BB:215:ARG:HD2	2:BC:695:ASN:HD21	1.84	0.42
2:BD:470:LYS:HB2	2:BE:489:PHE:CD2	2.53	0.42
2:BD:485:LEU:HG	2:BD:707:ARG:CG	2.50	0.42
2:BG:322:ILE:CG1	2:BG:339:PHE:HB2	2.48	0.42
2:BH:657:ARG:HD3	2:BH:657:ARG:HA	1.74	0.42
2:A0:539:ARG:O	2:A0:555:ARG:NH1	2.52	0.42
2:A1:694:ARG:N	2:A1:697:GLN:O	2.51	0.42
2:A2:165:ARG:HB2	2:Az:351:LYS:HB3	2.01	0.42
2:A2:586:MET:O	2:A2:590:ARG:HG3	2.19	0.42
2:A2:738:GLN:HB2	2:A3:734:LYS:CD	2.45	0.42
2:A4:544:ILE:O	2:A4:551:ARG:HD2	2.19	0.42
2:A5:562:ASN:HA	2:A5:721:ASN:HB2	2.00	0.42
2:A6:560:GLU:HG3	2:A6:719:LEU:HB3	2.01	0.42
2:A6:623:THR:OG1	2:A6:624:ASP:N	2.48	0.42
2:A8:476:MET:HE2	2:BH:357:PHE:HB3	2.02	0.42
2:A8:493:ARG:HB3	2:A8:497:TRP:CB	2.49	0.42
2:A9:206:ARG:HE	2:A9:474:PHE:HB3	1.85	0.42
2:A9:505:ASP:O	2:A9:509:GLN:HG2	2.20	0.42
2:Ar:251:TYR:HD1	2:Ar:261:PHE:CD2	2.37	0.42
2:At:255:ASP:OD2	2:At:264:LYS:NZ	2.43	0.42
2:At:493:ARG:HG3	2:At:497:TRP:CD1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Au:492:PRO:HA	2:Au:700:LYS:O	2.19	0.42
2:Aw:370:PHE:HA	2:Aw:396:ALA:O	2.19	0.42
2:Aw:492:PRO:HA	2:Aw:700:LYS:O	2.20	0.42
2:Ax:312:ALA:O	2:Ax:461:ASN:N	2.52	0.42
2:Ay:493:ARG:HB3	2:Ay:497:TRP:HB3	2.01	0.42
2:Az:225:TRP:CD2	2:BD:410:LYS:HG2	2.54	0.42
2:Az:680:PHE:CZ	2:Az:708:CYS:HB2	2.54	0.42
2:BB:201:TYR:OH	2:BC:168:MET:SD	2.74	0.42
2:BB:293:ILE:O	2:BB:297:GLU:HG2	2.19	0.42
2:BB:362:LEU:HB3	2:BB:404:GLY:N	2.34	0.42
2:BB:473:ASP:OD1	2:BB:474:PHE:N	2.49	0.42
2:BC:553:LEU:HD23	2:BD:174:PHE:HD1	1.84	0.42
2:BC:624:ASP:HB3	2:BC:656:LEU:O	2.20	0.42
2:BD:322:ILE:HG13	2:BD:339:PHE:HB2	2.01	0.42
2:BD:494:PRO:HD2	2:BD:497:TRP:HB2	2.00	0.42
2:BE:210:VAL:N	2:BE:228:ARG:O	2.52	0.42
2:BF:201:TYR:O	2:BF:480:ARG:HB3	2.18	0.42
2:BF:478:GLN:C	2:BF:479:GLU:HG3	2.45	0.42
2:BF:565:LEU:HD12	2:BF:725:LEU:HA	2.02	0.42
2:BF:727:LYS:HG3	2:BF:731:GLU:OE1	2.19	0.42
2:BH:495:LEU:HD23	2:BH:700:LYS:HG3	2.02	0.42
4:G:144:ARG:HA	4:G:144:ARG:HE	1.84	0.42
2:A0:489:PHE:O	2:A0:703:MET:HA	2.19	0.42
2:A0:495:LEU:HA	2:A0:700:LYS:HE2	2.02	0.42
2:A2:202:ASP:HA	2:A2:480:ARG:HA	2.00	0.42
2:A2:272:ILE:O	2:A2:278:THR:HA	2.20	0.42
2:A2:432:GLU:HB2	2:A3:540:GLN:NE2	2.28	0.42
2:A2:488:PRO:HB3	2:A2:705:GLN:HB2	2.01	0.42
2:A2:617:PRO:HG2	2:A2:644:PHE:CD1	2.54	0.42
2:A3:206:ARG:HE	2:A3:474:PHE:HB3	1.84	0.42
2:A3:210:VAL:HG22	2:A3:472:LEU:HD22	2.01	0.42
2:A3:660:ILE:O	2:A3:719:LEU:HD12	2.19	0.42
2:A4:560:GLU:HG3	2:A4:719:LEU:HB3	2.02	0.42
2:A5:494:PRO:HD2	2:A5:497:TRP:HB2	2.01	0.42
2:A7:544:ILE:O	2:A7:551:ARG:HD2	2.19	0.42
2:A8:679:MET:HG3	2:A8:711:VAL:HB	2.01	0.42
2:A9:321:LYS:HA	2:A9:339:PHE:O	2.19	0.42
2:Ar:230:LEU:HD22	2:As:506:VAL:HG13	2.02	0.42
2:Ar:356:ASP:OD1	2:Ar:357:PHE:N	2.52	0.42
2:As:161:GLN:CA	2:Aw:358:ARG:HE	2.31	0.42
2:As:210:VAL:N	2:As:228:ARG:O	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:As:322:ILE:CG1	2:As:339:PHE:HB2	2.50	0.42
2:Au:559:GLU:CD	2:Au:595:ARG:HH12	2.25	0.42
2:Aw:358:ARG:HD3	2:Aw:358:ARG:HA	1.74	0.42
2:Ay:180:ARG:HA	2:Ay:512:ASN:HB3	2.00	0.42
2:Ay:465:ARG:HG3	2:BF:495:LEU:HD12	2.01	0.42
2:Ay:544:ILE:O	2:Ay:551:ARG:HD2	2.20	0.42
2:BA:338:PRO:HD3	2:BA:378:VAL:HG22	2.01	0.42
2:BA:427:ASP:HB2	2:BA:433:GLN:HE21	1.84	0.42
2:BA:491:ILE:HD12	2:BF:471:HIS:O	2.18	0.42
2:BE:349:PHE:CE1	2:BE:362:LEU:HB2	2.55	0.42
2:BE:436:LYS:HA	2:BE:441:LYS:HE3	2.00	0.42
2:BE:564:ASP:OD1	2:BE:724:ASN:ND2	2.53	0.42
2:BF:651:ASN:ND2	2:BF:653:ASN:HB2	2.35	0.42
3:Ck:448:ASN:O	3:Ck:452:LYS:NZ	2.52	0.42
3:Ck:853:GLN:OE1	3:Ck:856:ARG:NH2	2.50	0.42
4:G:200:THR:HB	4:G:202:ASN:HD21	1.85	0.42
8:a:56:LEU:HD12	8:a:205:LYS:HE2	2.01	0.42
2:A1:360:MET:HB3	2:A3:165:ARG:HG3	2.00	0.42
2:A1:686:LEU:O	2:A1:704:VAL:HA	2.19	0.42
2:A2:292:MET:HE2	2:A2:458:ILE:HD12	2.02	0.42
2:A2:549:PHE:CE2	2:A2:674:PRO:HG3	2.54	0.42
2:A2:651:ASN:HD22	2:A2:653:ASN:HB2	1.83	0.42
2:A2:694:ARG:O	2:A2:696:GLY:N	2.52	0.42
2:A3:162:LYS:HD2	2:A3:164:LEU:HD11	2.02	0.42
2:A4:205:PHE:O	2:A4:476:MET:HA	2.19	0.42
2:A4:328:SER:HB2	2:A4:385:ALA:HB1	2.02	0.42
2:A4:642:VAL:HG23	2:Ay:629:GLN:HE22	1.84	0.42
2:A5:689:VAL:HG22	2:A5:702:THR:HG23	2.02	0.42
2:A7:570:GLN:HB2	2:A8:732:ASN:OD1	2.20	0.42
2:A8:180:ARG:HG3	2:A8:515:PHE:HD2	1.85	0.42
2:A8:586:MET:O	2:A8:590:ARG:HG3	2.18	0.42
2:A9:473:ASP:OD1	2:A9:474:PHE:N	2.50	0.42
2:At:576:GLU:OE1	2:At:577:ARG:HG3	2.18	0.42
2:Au:180:ARG:HG3	2:Au:515:PHE:CD2	2.55	0.42
2:Au:738:GLN:HB2	2:Av:734:LYS:CD	2.50	0.42
2:Ay:190:ASN:O	2:Ay:680:PHE:N	2.42	0.42
2:Az:206:ARG:HA	2:Az:475:ASN:O	2.20	0.42
2:BA:173:VAL:HB	2:BF:205:PHE:HB3	2.00	0.42
2:BA:189:TYR:HD2	2:BA:679:MET:N	2.17	0.42
2:BA:240:LEU:HB3	2:BB:514:ARG:HD3	2.01	0.42
2:BA:270:ARG:O	2:BA:280:LYS:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:321:LYS:HA	2:BB:339:PHE:O	2.19	0.42
2:BB:694:ARG:HD3	2:BB:694:ARG:HA	1.76	0.42
2:BC:617:PRO:HG2	2:BC:644:PHE:CD1	2.54	0.42
2:BD:369:ILE:O	2:BD:397:GLN:HA	2.19	0.42
2:BD:694:ARG:N	2:BD:697:GLN:O	2.53	0.42
2:BE:325:GLU:HB2	2:BE:452:VAL:HG21	2.02	0.42
2:BE:687:VAL:HG22	2:BE:704:VAL:HG22	2.00	0.42
2:BF:691:GLN:HG3	2:BF:699:SER:O	2.19	0.42
2:BG:494:PRO:O	2:BG:700:LYS:HE2	2.20	0.42
2:BG:517:ASN:N	2:BG:517:ASN:OD1	2.51	0.42
2:BH:328:SER:HA	2:BH:446:ASP:O	2.20	0.42
2:BH:686:LEU:O	2:BH:704:VAL:HA	2.20	0.42
3:Ck:783:ASN:OD1	3:Ck:783:ASN:N	2.52	0.42
5:P:99:ALA:O	5:P:103:MET:HG2	2.20	0.42
2:A1:216:ARG:NH1	2:A9:291:ASP:CG	2.77	0.42
2:A1:225:TRP:NE1	2:A5:159:TYR:HE2	2.17	0.42
2:A2:480:ARG:HB3	2:Aw:354:GLU:OE2	2.19	0.42
2:A2:493:ARG:HD3	2:A2:493:ARG:HA	1.74	0.42
2:A4:252:ARG:HA	2:A4:252:ARG:HD3	1.84	0.42
2:A5:358:ARG:HD3	2:A5:358:ARG:HA	1.86	0.42
2:A6:408:VAL:HG21	2:A8:164:LEU:HD11	2.01	0.42
2:A7:230:LEU:HD22	2:A8:506:VAL:HG13	2.02	0.42
2:A8:540:GLN:HA	2:A8:555:ARG:HH12	1.84	0.42
2:Av:581:VAL:O	2:Av:585:ILE:HG13	2.19	0.42
2:Aw:397:GLN:O	2:Aw:423:TYR:N	2.47	0.42
2:Ax:651:ASN:HD22	2:Ax:653:ASN:HB2	1.85	0.42
2:Ay:373:GLU:HB2	2:Ay:390:ILE:HG23	2.00	0.42
2:Az:283:TYR:HD2	2:Az:454:TYR:O	2.03	0.42
2:BB:349:PHE:CD1	2:BB:349:PHE:N	2.87	0.42
2:BC:228:ARG:HH11	2:BC:239:VAL:HA	1.84	0.42
2:BC:517:ASN:OD1	2:BC:517:ASN:N	2.52	0.42
2:BC:685:GLU:HG2	2:BC:706:PRO:HA	2.02	0.42
2:BD:199:ILE:HG22	2:BE:168:MET:HB2	2.01	0.42
2:BE:469:GLY:HA3	2:BF:488:PRO:O	2.20	0.42
2:BF:517:ASN:OD1	2:BF:517:ASN:N	2.53	0.42
3:Ck:690:PRO:C	3:Ck:694:ARG:HH21	2.28	0.42
3:Ck:831:LEU:HD11	3:Ck:900:ARG:HB2	2.02	0.42
5:O:36:TYR:OH	5:P:97:PRO:O	2.20	0.42
6:Q:6:TYR:HA	6:Q:145:ILE:HG12	2.01	0.42
8:a:218:LEU:O	8:a:222:LEU:HG	2.20	0.42
2:A0:205:PHE:O	2:A0:476:MET:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:272:ILE:O	2:A0:278:THR:HA	2.19	0.42
2:A3:179:SER:O	2:A3:512:ASN:HB3	2.18	0.42
2:A3:349:PHE:CZ	2:A3:413:LEU:HD21	2.54	0.42
2:A3:461:ASN:ND2	2:Ay:162:LYS:HE3	2.34	0.42
2:A4:345:ILE:HD11	2:Ay:479:GLU:HB3	2.01	0.42
2:A6:360:MET:CG	2:A8:164:LEU:HD13	2.48	0.42
2:A7:535:THR:HG21	2:A7:556:PRO:HB2	2.02	0.42
2:A8:208:PRO:HA	2:A8:474:PHE:HA	2.02	0.42
2:A8:370:PHE:HA	2:A8:396:ALA:O	2.20	0.42
2:A9:581:VAL:O	2:A9:585:ILE:HG13	2.20	0.42
2:A9:651:ASN:HD22	2:A9:653:ASN:HB2	1.85	0.42
2:Ar:485:LEU:HD13	2:Aw:314:ASP:OD1	2.18	0.42
2:Ar:494:PRO:HD2	2:Ar:497:TRP:HB2	2.00	0.42
2:Ar:581:VAL:O	2:Ar:585:ILE:HG13	2.19	0.42
2:As:540:GLN:HA	2:As:555:ARG:HH12	1.84	0.42
2:As:557:TRP:CZ3	2:As:596:MET:HG2	2.55	0.42
2:At:539:ARG:HG3	2:At:555:ARG:HB3	2.02	0.42
2:Av:314:ASP:OD1	2:Av:315:ALA:N	2.46	0.42
2:Av:657:ARG:HD3	2:Av:657:ARG:HA	1.73	0.42
2:Aw:558:PHE:HD1	2:Aw:717:LEU:HB3	1.83	0.42
2:Ay:473:ASP:OD1	2:Ay:474:PHE:N	2.49	0.42
2:BA:491:ILE:HG21	2:BF:211:PHE:CE2	2.54	0.42
2:BB:361:THR:C	2:BD:164:LEU:HB2	2.45	0.42
2:BB:603:GLN:O	2:BB:607:GLN:HG3	2.19	0.42
2:BD:317:ILE:HG23	2:BD:458:ILE:HG12	2.01	0.42
2:BD:486:LEU:HD11	2:BD:708:CYS:SG	2.59	0.42
2:BD:557:TRP:CZ3	2:BD:596:MET:HG2	2.54	0.42
2:BE:200:GLY:HA3	2:BE:481:TYR:O	2.19	0.42
2:BH:351:LYS:HD2	2:BH:359:LYS:O	2.20	0.42
3:Ck:222:LYS:HE3	3:Ck:222:LYS:HB2	1.83	0.42
5:O:18:PRO:HB2	5:O:21:GLN:OE1	2.19	0.42
8:a:71:LEU:HB3	8:a:75:PHE:CE2	2.54	0.42
8:a:150:ASP:HB3	8:a:153:ASN:ND2	2.34	0.42
2:A0:680:PHE:CZ	2:A0:708:CYS:HB2	2.55	0.42
2:A1:367:HIS:CD2	2:A1:423:TYR:CZ	3.08	0.42
2:A2:581:VAL:O	2:A2:585:ILE:HG13	2.20	0.42
2:A4:338:PRO:HD3	2:A4:378:VAL:HA	2.02	0.42
2:A4:407:ASN:OD1	2:A4:408:VAL:N	2.52	0.42
2:A4:561:ILE:O	2:A4:720:ILE:HA	2.19	0.42
2:A6:651:ASN:ND2	2:A6:653:ASN:HB2	2.35	0.42
2:A7:581:VAL:O	2:A7:585:ILE:HG13	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A9:694:ARG:HB2	2:A9:697:GLN:HG3	2.02	0.42
2:As:165:ARG:HB2	2:Aw:351:LYS:CB	2.50	0.42
2:As:358:ARG:HA	2:As:358:ARG:HD3	1.58	0.42
2:As:565:LEU:HD12	2:As:725:LEU:HA	2.02	0.42
2:At:567:LYS:HG2	2:At:568:SER:N	2.34	0.42
2:At:663:THR:OG1	2:At:664:LEU:N	2.53	0.42
2:Au:395:ALA:HB3	2:Av:537:ARG:HD3	2.01	0.42
2:Av:297:GLU:OE2	2:Av:307:SER:OG	2.14	0.42
2:Av:661:PHE:CE1	2:Av:719:LEU:HD13	2.55	0.42
2:Aw:473:ASP:OD1	2:Aw:474:PHE:N	2.48	0.42
2:Ax:407:ASN:OD1	2:Ax:408:VAL:N	2.53	0.42
2:Ax:623:THR:OG1	2:Ax:624:ASP:N	2.47	0.42
2:Az:322:ILE:CG1	2:Az:339:PHE:HB2	2.50	0.42
2:BA:686:LEU:N	2:BA:705:GLN:O	2.47	0.42
2:BF:666:ARG:HE	2:BF:675:LEU:HD12	1.84	0.42
2:BG:517:ASN:ND2	2:BH:237:ASN:HA	2.34	0.42
2:BH:535:THR:HG21	2:BH:556:PRO:HB2	2.02	0.42
2:BH:540:GLN:HA	2:BH:555:ARG:HH12	1.84	0.42
2:BH:617:PRO:HG2	2:BH:644:PHE:CD1	2.55	0.42
3:Ck:241:PHE:O	3:Ck:244:GLU:HG3	2.20	0.42
3:Ck:357:ASP:OD1	3:Ck:357:ASP:N	2.52	0.42
5:O:86:PHE:CE2	5:O:90:ARG:HD2	2.55	0.42
2:A0:435:ARG:HA	2:A0:440:PHE:CD2	2.55	0.42
2:A2:517:ASN:OD1	2:A2:517:ASN:N	2.51	0.42
2:A2:703:MET:HE3	2:A2:703:MET:HB2	1.94	0.42
2:A4:321:LYS:HA	2:A4:339:PHE:O	2.20	0.42
2:A4:367:HIS:CD2	2:A4:423:TYR:CZ	3.07	0.42
2:A4:428:GLN:HA	2:Ay:537:ARG:HH21	1.83	0.42
2:A5:486:LEU:O	2:A5:705:GLN:HG3	2.19	0.42
2:Ar:485:LEU:HD13	2:As:162:LYS:HZ1	1.84	0.42
2:Ar:517:ASN:ND2	2:Aw:237:ASN:HA	2.35	0.42
2:As:208:PRO:HA	2:As:474:PHE:HA	2.01	0.42
2:As:482:ALA:O	2:As:709:ARG:HD2	2.20	0.42
2:At:247:LEU:HD21	2:At:460:ARG:HB3	2.02	0.42
2:At:321:LYS:HA	2:At:339:PHE:O	2.20	0.42
2:Av:651:ASN:ND2	2:Av:653:ASN:HB2	2.35	0.42
2:Aw:544:ILE:O	2:Aw:551:ARG:HD2	2.20	0.42
2:Ax:319:LEU:HA	2:Ax:456:LEU:HD23	2.00	0.42
2:Ay:199:ILE:CG2	2:Ay:483:ILE:H	2.33	0.42
2:Ay:302:LEU:O	2:BF:695:ASN:C	2.63	0.42
2:Ay:305:GLY:N	2:BF:696:GLY:CA	2.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ay:311:ASP:HB2	2:BE:216:ARG:HH21	1.84	0.42
2:Az:695:ASN:OD1	2:Az:695:ASN:N	2.53	0.42
2:BA:164:LEU:CD2	2:BE:456:LEU:HD23	2.50	0.42
2:BA:506:VAL:CB	2:BF:472:LEU:HD13	2.49	0.42
2:BA:560:GLU:HA	2:BA:719:LEU:O	2.20	0.42
2:BB:517:ASN:OD1	2:BB:517:ASN:N	2.53	0.42
2:BC:479:GLU:O	2:BD:170:TYR:N	2.52	0.42
2:BD:336:TYR:O	2:BD:378:VAL:HG23	2.20	0.42
2:BE:230:LEU:HD22	2:BF:506:VAL:HG13	2.02	0.42
2:BG:559:GLU:O	2:BG:718:GLY:HA2	2.20	0.42
4:G:204:LEU:O	4:G:208:MET:HG3	2.20	0.42
8:a:59:ARG:HE	8:a:202:LYS:CE	2.33	0.42
1:B:49:LYS:HD3	1:B:49:LYS:HA	1.85	0.42
2:A0:251:TYR:N	2:A0:280:LYS:O	2.43	0.42
2:A0:581:VAL:O	2:A0:585:ILE:HG13	2.19	0.42
2:A0:666:ARG:NE	2:A0:675:LEU:HD12	2.33	0.42
2:A1:219:ASP:N	2:A1:219:ASP:OD1	2.52	0.42
2:A1:462:ASN:ND2	2:A1:467:GLU:O	2.53	0.42
2:A2:495:LEU:HD11	2:A2:698:VAL:CG1	2.50	0.42
2:A2:738:GLN:HB2	2:A3:734:LYS:HB3	2.01	0.42
2:A3:691:GLN:HB2	2:A3:700:LYS:HG2	2.01	0.42
2:A5:349:PHE:CD1	2:A5:362:LEU:HB2	2.55	0.42
2:A5:695:ASN:ND2	2:Az:306:TYR:CE1	2.87	0.42
2:A6:561:ILE:N	2:A6:719:LEU:O	2.44	0.42
2:A8:179:SER:O	2:A8:512:ASN:HB3	2.20	0.42
2:At:210:VAL:O	2:At:228:ARG:N	2.44	0.42
2:Au:323:LEU:O	2:Au:451:LEU:HD12	2.19	0.42
2:Ax:617:PRO:HG2	2:Ax:644:PHE:CD1	2.55	0.42
2:Ay:585:ILE:O	2:Ay:589:ILE:HG13	2.20	0.42
2:Ay:738:GLN:HB2	2:Az:734:LYS:CB	2.43	0.42
2:BA:314:ASP:OD1	2:BA:315:ALA:N	2.45	0.42
2:BA:349:PHE:CD1	2:BA:362:LEU:HB2	2.55	0.42
2:BA:539:ARG:O	2:BA:555:ARG:NH1	2.52	0.42
2:BC:562:ASN:HA	2:BC:721:ASN:HB2	2.02	0.42
2:BE:283:TYR:CD2	2:BE:454:TYR:O	2.72	0.42
2:BE:373:GLU:HB3	2:BE:390:ILE:HA	2.02	0.42
2:BF:618:ARG:NH1	2:BF:667:GLY:H	2.18	0.42
2:BH:370:PHE:HA	2:BH:396:ALA:O	2.19	0.42
6:Q:107:TYR:CD2	6:Q:128:PRO:HG3	2.54	0.42
6:Q:136:ARG:NH2	6:Q:148:VAL:HG11	2.35	0.42
8:a:181:ASP:O	8:a:185:ILE:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:79:THR:HG22	2:At:212:ASN:ND2	2.34	0.41
2:A0:695:ASN:OD1	2:A0:695:ASN:N	2.47	0.41
2:A1:270:ARG:HE	2:A1:281:THR:HG23	1.84	0.41
2:A1:493:ARG:HD2	2:A1:497:TRP:CD2	2.55	0.41
2:A1:657:ARG:HD3	2:A1:657:ARG:HA	1.77	0.41
2:A3:244:VAL:HG22	2:A4:487:ALA:HB1	2.02	0.41
2:A3:351:LYS:HD2	2:A3:359:LYS:O	2.20	0.41
2:A3:562:ASN:HA	2:A3:721:ASN:HB2	2.02	0.41
2:A3:678:GLY:CA	2:A3:712:ASN:HA	2.49	0.41
2:A4:311:ASP:O	2:Az:160:ASP:OD1	2.38	0.41
2:A4:517:ASN:N	2:A4:517:ASN:OD1	2.53	0.41
2:A6:529:ALA:O	2:A6:533:VAL:HG23	2.20	0.41
2:A7:249:PRO:HA	2:A7:295:ILE:CG2	2.50	0.41
2:A7:497:TRP:NE1	2:A7:499:GLU:O	2.51	0.41
2:A8:260:TYR:OH	2:As:221:THR:HA	2.20	0.41
2:Ar:205:PHE:O	2:Ar:476:MET:HA	2.20	0.41
2:Ar:369:ILE:O	2:Ar:397:GLN:HA	2.20	0.41
2:Ar:562:ASN:HA	2:Ar:721:ASN:HB2	2.00	0.41
2:At:573:THR:N	2:At:577:ARG:HH12	2.05	0.41
2:Aw:581:VAL:O	2:Aw:585:ILE:HG13	2.19	0.41
2:Ay:497:TRP:NE1	2:Ay:499:GLU:O	2.47	0.41
2:BA:358:ARG:HD3	2:BA:358:ARG:HA	1.79	0.41
2:BA:694:ARG:HA	2:BF:304:ASN:OD1	2.19	0.41
2:BB:350:GLN:O	2:BB:360:MET:CB	2.68	0.41
2:BC:470:LYS:O	2:BD:490:SER:O	2.38	0.41
2:BC:483:ILE:HD11	2:BC:681:LEU:CB	2.49	0.41
2:BD:480:ARG:CD	2:BE:167:MET:HB2	2.49	0.41
2:BF:462:ASN:ND2	2:BF:467:GLU:HB2	2.34	0.41
2:BH:288:LYS:O	2:BH:414:ARG:HG3	2.20	0.41
2:BH:581:VAL:O	2:BH:585:ILE:HG13	2.18	0.41
2:A0:517:ASN:OD1	2:A0:517:ASN:N	2.53	0.41
2:A1:373:GLU:HB2	2:A1:390:ILE:HG23	2.03	0.41
2:A2:205:PHE:O	2:A2:476:MET:HA	2.20	0.41
2:A2:328:SER:HB2	2:A2:385:ALA:HB1	2.02	0.41
2:A5:581:VAL:O	2:A5:585:ILE:HG13	2.20	0.41
2:A7:559:GLU:O	2:A7:718:GLY:HA2	2.20	0.41
2:A8:492:PRO:HA	2:A8:700:LYS:O	2.19	0.41
2:A8:680:PHE:CZ	2:A8:708:CYS:HB2	2.55	0.41
2:A9:483:ILE:HD11	2:A9:681:LEU:HB3	2.02	0.41
2:Ar:288:LYS:O	2:Ar:414:ARG:HG3	2.19	0.41
2:Ar:483:ILE:HD11	2:Ar:681:LEU:CB	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ar:585:ILE:O	2:Ar:589:ILE:HG13	2.20	0.41
2:As:493:ARG:HA	2:As:493:ARG:HD3	1.75	0.41
2:As:581:VAL:O	2:As:585:ILE:HG13	2.20	0.41
2:Au:272:ILE:O	2:Au:278:THR:HA	2.20	0.41
2:Au:461:ASN:HD21	2:Aw:162:LYS:NZ	2.17	0.41
2:Av:165:ARG:CZ	2:Ax:351:LYS:HB3	2.50	0.41
2:Ax:159:TYR:HD1	2:Ax:160:ASP:H	1.67	0.41
2:Ay:203:VAL:O	2:Ay:478:GLN:HA	2.20	0.41
2:Az:289:LEU:HD12	2:Az:413:LEU:O	2.20	0.41
2:Az:407:ASN:OD1	2:Az:408:VAL:N	2.53	0.41
2:BA:200:GLY:O	2:BB:168:MET:HB3	2.20	0.41
2:BA:539:ARG:O	2:BA:555:ARG:HD3	2.20	0.41
2:BA:581:VAL:O	2:BA:585:ILE:HG13	2.20	0.41
2:BA:591:GLU:OE2	2:BA:595:ARG:NE	2.50	0.41
2:BB:345:ILE:HD12	2:BB:345:ILE:HA	1.93	0.41
2:BB:379:LYS:HD3	4:G:89:PRO:O	2.20	0.41
2:BB:465:ARG:HH12	2:BC:689:VAL:C	2.28	0.41
2:BB:486:LEU:O	2:BB:705:GLN:NE2	2.53	0.41
2:BC:317:ILE:HD13	2:BC:317:ILE:HG21	1.82	0.41
2:BC:361:THR:H	2:BE:165:ARG:CD	2.21	0.41
2:BD:485:LEU:HG	2:BD:707:ARG:CD	2.50	0.41
2:BG:172:VAL:N	2:BH:204:SER:O	2.52	0.41
2:BG:349:PHE:CD1	2:BG:362:LEU:HB2	2.55	0.41
2:BG:678:GLY:CA	2:BG:712:ASN:HA	2.50	0.41
3:Ck:925:LEU:HA	3:Ck:925:LEU:HD23	1.82	0.41
5:P:47:LEU:HD23	5:P:47:LEU:HA	1.85	0.41
2:A0:161:GLN:HA	2:A8:358:ARG:NH2	2.33	0.41
2:A4:651:ASN:HD22	2:A4:653:ASN:HB2	1.85	0.41
2:A5:549:PHE:CE2	2:A5:674:PRO:HG3	2.55	0.41
2:A7:247:LEU:HD12	2:A7:458:ILE:HG22	2.02	0.41
2:A7:517:ASN:OD1	2:A7:517:ASN:N	2.52	0.41
2:A7:651:ASN:HB3	2:A7:656:LEU:CD1	2.49	0.41
2:A8:307:SER:HB3	2:As:216:ARG:HG3	2.02	0.41
2:A8:356:ASP:OD1	2:A8:357:PHE:N	2.53	0.41
2:Ar:219:ASP:OD1	2:Ar:220:GLY:N	2.53	0.41
2:Ar:651:ASN:HB3	2:Ar:656:LEU:CD1	2.51	0.41
2:At:277:VAL:HB	2:At:279:TYR:CE1	2.55	0.41
2:At:309:ASN:HB2	2:BA:225:TRP:CH2	2.56	0.41
2:At:357:PHE:HE1	2:BA:475:ASN:HA	1.84	0.41
2:At:495:LEU:HA	2:At:700:LYS:HG3	2.00	0.41
2:Av:435:ARG:HA	2:Av:440:PHE:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Aw:666:ARG:NE	2:Aw:675:LEU:HD12	2.33	0.41
2:Ax:561:ILE:N	2:Ax:719:LEU:O	2.43	0.41
2:Az:321:LYS:HA	2:Az:339:PHE:O	2.19	0.41
2:BA:167:MET:SD	2:BE:341:VAL:O	2.78	0.41
2:BB:561:ILE:O	2:BB:720:ILE:HA	2.21	0.41
2:BD:651:ASN:ND2	2:BD:653:ASN:HB2	2.35	0.41
2:BE:320:THR:HG22	2:BE:457:ARG:CZ	2.50	0.41
2:BG:540:GLN:HA	2:BG:555:ARG:HH12	1.85	0.41
3:Ck:791:LEU:N	3:Ck:792:PRO:HD2	2.35	0.41
5:P:101:GLU:H	5:P:101:GLU:HG3	1.54	0.41
8:a:271:TRP:HA	8:a:271:TRP:HE3	1.82	0.41
2:A0:283:TYR:HD2	2:A0:454:TYR:O	2.03	0.41
2:A1:159:TYR:O	2:BF:497:TRP:CE3	2.73	0.41
2:A1:336:TYR:O	2:A1:378:VAL:HG23	2.21	0.41
2:A1:370:PHE:HA	2:A1:396:ALA:O	2.21	0.41
2:A1:586:MET:O	2:A1:590:ARG:HG3	2.20	0.41
2:A7:211:PHE:HE1	2:A7:473:ASP:HB2	1.86	0.41
2:A8:470:LYS:HB2	2:A9:489:PHE:CD2	2.55	0.41
2:A9:216:ARG:HG3	2:Ar:307:SER:CB	2.50	0.41
2:Ar:540:GLN:HA	2:Ar:555:ARG:HH12	1.86	0.41
2:Ar:682:TYR:OH	2:Ar:684:PRO:HA	2.19	0.41
2:As:623:THR:OG1	2:As:624:ASP:N	2.49	0.41
2:Au:482:ALA:O	2:Au:709:ARG:HD2	2.20	0.41
2:Au:681:LEU:N	2:Au:709:ARG:O	2.46	0.41
2:Aw:578:ARG:HG3	2:Aw:729:TYR:OH	2.20	0.41
2:Aw:617:PRO:HG2	2:Aw:644:PHE:CD1	2.55	0.41
2:BA:171:SER:O	2:BF:549:PHE:HB2	2.21	0.41
2:BA:173:VAL:HG21	2:BF:205:PHE:C	2.45	0.41
2:BA:250:ILE:HD12	2:BA:295:ILE:O	2.19	0.41
2:BA:488:PRO:CD	2:BF:245:THR:HG23	2.49	0.41
2:BC:651:ASN:HB3	2:BC:656:LEU:CD1	2.50	0.41
2:BE:535:THR:O	2:BE:539:ARG:HB2	2.20	0.41
2:BG:370:PHE:HA	2:BG:396:ALA:O	2.21	0.41
2:BG:494:PRO:HB2	2:BG:496:ASP:OD1	2.20	0.41
2:BG:549:PHE:CE2	2:BG:674:PRO:HG3	2.55	0.41
3:Ck:234:TRP:CZ2	3:Ck:238:MET:HG3	2.55	0.41
3:Ck:472:LYS:HE2	3:Ck:472:LYS:HB3	1.86	0.41
3:Ck:691:VAL:HG11	3:Ck:913:TYR:HA	2.02	0.41
5:P:78:ASP:N	5:P:78:ASP:OD1	2.52	0.41
8:a:119:ASP:HA	8:a:122:LYS:HG2	2.02	0.41
2:A1:216:ARG:HH11	2:A9:291:ASP:CG	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:235:MET:HE1	2:A1:601:GLY:HA2	2.02	0.41
2:A1:347:ASN:HB3	2:A1:364:PHE:CE1	2.55	0.41
2:A2:678:GLY:CA	2:A2:712:ASN:HA	2.49	0.41
2:A3:470:LYS:HB2	2:A4:489:PHE:HD2	1.84	0.41
2:A3:585:ILE:O	2:A3:589:ILE:HG13	2.21	0.41
2:A3:693:THR:HG23	2:A3:698:VAL:HG22	2.02	0.41
2:A4:361:THR:CB	2:Az:165:ARG:HH11	2.29	0.41
2:A5:216:ARG:HH21	2:BC:293:ILE:CD1	2.28	0.41
2:A5:567:LYS:O	2:A6:731:GLU:HA	2.20	0.41
2:A7:356:ASP:OD1	2:A7:357:PHE:N	2.53	0.41
2:A7:479:GLU:OE2	2:A7:551:ARG:NH2	2.53	0.41
2:A9:225:TRP:CZ2	2:Ar:410:LYS:HA	2.56	0.41
2:Ar:489:PHE:HA	2:Aw:469:GLY:HA3	2.02	0.41
2:As:211:PHE:CE1	2:As:473:ASP:HB2	2.56	0.41
2:At:271:ASP:OD1	2:At:280:LYS:HE2	2.21	0.41
2:At:539:ARG:NH1	2:At:557:TRP:HD1	2.19	0.41
2:Au:489:PHE:HA	2:Ax:469:GLY:HA3	2.02	0.41
2:Au:691:GLN:CB	2:Au:700:LYS:HG2	2.49	0.41
2:Au:693:THR:HA	2:Au:698:VAL:HA	2.01	0.41
2:Aw:351:LYS:HZ2	2:Aw:359:LYS:HB3	1.86	0.41
2:Ax:285:ALA:O	2:Ax:454:TYR:HE1	2.03	0.41
2:Az:370:PHE:HA	2:Az:396:ALA:O	2.20	0.41
2:Az:657:ARG:HD3	2:Az:657:ARG:HA	1.72	0.41
2:BA:159:TYR:CD2	2:BE:295:ILE:HB	2.50	0.41
2:BA:473:ASP:OD1	2:BA:474:PHE:N	2.53	0.41
2:BA:491:ILE:HB	2:BF:471:HIS:N	2.35	0.41
2:BA:564:ASP:OD1	2:BA:724:ASN:ND2	2.52	0.41
2:BC:559:GLU:O	2:BC:718:GLY:HA2	2.21	0.41
2:BF:563:LEU:O	2:BF:723:VAL:N	2.53	0.41
2:BF:657:ARG:HA	2:BF:657:ARG:HD3	1.74	0.41
2:BG:493:ARG:HD2	2:BG:497:TRP:CG	2.55	0.41
2:BG:561:ILE:N	2:BG:719:LEU:O	2.43	0.41
2:BG:617:PRO:HG2	2:BG:644:PHE:CD1	2.55	0.41
2:BH:328:SER:HB2	2:BH:385:ALA:HB1	2.02	0.41
3:Ck:315:GLU:HA	3:Ck:318:ARG:HE	1.85	0.41
3:Ck:771:ARG:H	3:Ck:771:ARG:HG3	1.63	0.41
5:O:96:GLU:HB3	5:O:99:ALA:HB2	2.02	0.41
2:A0:475:ASN:HA	2:Az:357:PHE:HE1	1.85	0.41
2:A0:686:LEU:O	2:A0:704:VAL:HA	2.20	0.41
2:A1:406:SER:OG	2:A1:413:LEU:HG	2.21	0.41
2:A1:493:ARG:NH1	2:BF:159:TYR:HB3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:493:ARG:HB3	2:A2:497:TRP:CB	2.50	0.41
2:A5:158:SER:N	2:A9:311:ASP:HB2	2.35	0.41
2:A5:560:GLU:CD	2:A5:719:LEU:HD23	2.45	0.41
2:A5:585:ILE:O	2:A5:589:ILE:HG13	2.20	0.41
2:A5:651:ASN:HB3	2:A5:656:LEU:CD1	2.50	0.41
2:A6:351:LYS:HD2	2:A6:352:SER:H	1.86	0.41
2:A7:306:TYR:CD2	2:BG:215:ARG:HG3	2.56	0.41
2:Ar:617:PRO:HG2	2:Ar:644:PHE:CD1	2.56	0.41
2:Ar:651:ASN:HD22	2:Ar:653:ASN:HB2	1.86	0.41
2:As:410:LYS:HE2	2:BH:225:TRP:CG	2.56	0.41
2:As:461:ASN:ND2	2:Au:162:LYS:HE3	2.35	0.41
2:At:221:THR:HA	2:At:222:PRO:HD3	1.95	0.41
2:At:597:TYR:HB2	2:At:644:PHE:HZ	1.85	0.41
2:Av:190:ASN:O	2:Av:680:PHE:N	2.46	0.41
2:Ax:581:VAL:O	2:Ax:585:ILE:HG13	2.20	0.41
2:Ay:251:TYR:N	2:Ay:280:LYS:O	2.38	0.41
2:Ay:367:HIS:HA	2:Ay:398:LEU:O	2.21	0.41
2:Az:482:ALA:O	2:Az:709:ARG:HD2	2.21	0.41
2:Az:560:GLU:HG3	2:Az:719:LEU:HD23	2.03	0.41
2:BA:162:LYS:CG	2:BE:458:ILE:H	2.33	0.41
2:BA:580:GLU:HG2	2:BB:575:ALA:N	2.34	0.41
2:BC:505:ASP:O	2:BC:509:GLN:HG2	2.20	0.41
2:BD:395:ALA:HB3	2:BE:537:ARG:HD3	2.02	0.41
2:BD:485:LEU:HG	2:BD:707:ARG:HD3	2.01	0.41
2:BF:558:PHE:HA	2:BF:717:LEU:O	2.21	0.41
2:BG:247:LEU:HD12	2:BG:458:ILE:HG22	2.03	0.41
2:BG:619:CYS:N	2:BG:645:ASN:O	2.31	0.41
3:Ck:243:ILE:HD13	3:Ck:243:ILE:HA	1.96	0.41
3:Ck:270:LEU:HD23	3:Ck:273:ILE:HD12	2.02	0.41
7:R:132:LEU:HD23	7:R:132:LEU:HA	1.87	0.41
8:a:275:LYS:O	8:a:279:LYS:HG2	2.20	0.41
2:A0:204:SER:CB	2:A0:478:GLN:HG2	2.51	0.41
2:A0:393:LYS:HB2	2:A0:428:GLN:OE1	2.21	0.41
2:A1:617:PRO:HG2	2:A1:644:PHE:CD1	2.55	0.41
2:A5:214:LEU:HB3	2:A5:225:TRP:CH2	2.56	0.41
2:A5:222:PRO:HB3	2:BC:291:ASP:HB2	2.03	0.41
2:A6:202:ASP:O	2:A7:170:TYR:N	2.54	0.41
2:A7:184:MET:HE3	2:A7:519:MET:HE1	2.03	0.41
2:A8:529:ALA:O	2:A8:533:VAL:HG23	2.20	0.41
2:A9:549:PHE:CE2	2:A9:674:PRO:HG3	2.56	0.41
2:As:164:LEU:HD12	2:Aw:351:LYS:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:As:562:ASN:HA	2:As:721:ASN:HB2	2.02	0.41
2:As:661:PHE:CE1	2:As:719:LEU:HD13	2.55	0.41
2:Av:398:LEU:HD23	2:Av:422:LEU:HA	2.02	0.41
2:Av:493:ARG:HD2	2:Av:497:TRP:CG	2.55	0.41
2:Av:550:GLY:HA2	2:Av:674:PRO:HB3	2.03	0.41
2:Ax:517:ASN:OD1	2:Ax:517:ASN:N	2.53	0.41
2:BA:165:ARG:HH21	2:BE:362:LEU:CG	2.33	0.41
2:BA:567:LYS:O	2:BB:731:GLU:HA	2.20	0.41
2:BA:661:PHE:CE1	2:BA:719:LEU:HD13	2.55	0.41
2:BB:160:ASP:HB3	2:BB:161:GLN:H	1.72	0.41
2:BB:678:GLY:CA	2:BB:712:ASN:HA	2.51	0.41
2:BC:549:PHE:CE2	2:BC:674:PRO:HG3	2.56	0.41
2:BD:584:ALA:O	2:BD:588:VAL:HG23	2.21	0.41
2:BD:666:ARG:NE	2:BD:675:LEU:HD12	2.33	0.41
2:BF:349:PHE:CG	2:BF:362:LEU:HB2	2.56	0.41
2:BG:473:ASP:OD1	2:BG:474:PHE:N	2.49	0.41
2:BG:496:ASP:OD1	2:BG:496:ASP:N	2.48	0.41
3:Ck:188:PRO:O	3:Ck:192:GLU:HG3	2.21	0.41
3:Ck:196:LYS:HE3	3:Ck:196:LYS:HB2	1.92	0.41
3:Ck:778:LEU:HB3	3:Ck:789:ALA:HB3	2.02	0.41
6:Q:73:LEU:O	6:Q:75:GLY:N	2.53	0.41
6:Q:180:SER:O	6:Q:184:VAL:HG13	2.21	0.41
2:A0:322:ILE:CG1	2:A0:339:PHE:HB2	2.51	0.41
2:A0:322:ILE:HG13	2:A0:339:PHE:HB2	2.02	0.41
2:A0:561:ILE:N	2:A0:719:LEU:O	2.46	0.41
2:A1:320:THR:HA	2:A1:342:SER:HB3	2.02	0.41
2:A1:471:HIS:ND1	2:A2:492:PRO:HD3	2.35	0.41
2:A1:570:GLN:HB2	2:A2:732:ASN:OD1	2.21	0.41
2:A2:199:ILE:CG2	2:A2:483:ILE:H	2.33	0.41
2:A2:323:LEU:O	2:A2:451:LEU:HD12	2.21	0.41
2:A3:488:PRO:HB3	2:A3:705:GLN:HB2	2.03	0.41
2:A3:491:ILE:CD1	2:A3:503:ASP:HB3	2.51	0.41
2:A4:678:GLY:CA	2:A4:712:ASN:HA	2.51	0.41
2:A5:338:PRO:HD3	2:A5:378:VAL:HG22	2.02	0.41
2:A6:211:PHE:CE1	2:A6:473:ASP:HB2	2.56	0.41
2:A8:657:ARG:HD3	2:A8:657:ARG:HA	1.71	0.41
2:A9:250:ILE:HD12	2:A9:297:GLU:H	1.84	0.41
2:A9:695:ASN:HB2	2:BH:305:GLY:HA3	2.02	0.41
2:Ar:480:ARG:HD3	2:As:167:MET:SD	2.61	0.41
2:As:310:THR:HB	2:Au:158:SER:CB	2.50	0.41
2:As:349:PHE:CZ	2:As:413:LEU:HD21	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:As:472:LEU:HD13	2:Ax:506:VAL:HG12	2.03	0.41
2:As:740:ASN:HB3	2:Au:734:LYS:HZ3	1.85	0.41
2:Au:657:ARG:HA	2:Au:657:ARG:HD3	1.73	0.41
2:Ax:694:ARG:HA	2:Ax:694:ARG:HD3	1.84	0.41
2:Ay:298:ASP:O	2:Ay:302:LEU:HG	2.20	0.41
2:Ay:304:ASN:N	2:BF:696:GLY:CA	2.78	0.41
2:Ay:305:GLY:N	2:BF:697:GLN:N	2.69	0.41
2:Ay:666:ARG:NE	2:Ay:675:LEU:HD12	2.34	0.41
2:Az:540:GLN:HA	2:Az:555:ARG:HH12	1.86	0.41
2:BA:161:GLN:NE2	2:BE:292:MET:HB2	2.32	0.41
2:BA:240:LEU:O	2:BB:514:ARG:NE	2.54	0.41
2:BA:369:ILE:O	2:BA:397:GLN:HA	2.19	0.41
2:BA:537:ARG:HH22	2:BF:431:ILE:N	2.18	0.41
2:BA:603:GLN:HB3	2:BA:604:PRO:HD3	2.03	0.41
2:BB:184:MET:HE3	2:BB:519:MET:HE1	2.02	0.41
2:BC:180:ARG:HA	2:BC:512:ASN:HB3	2.03	0.41
2:BC:288:LYS:C	2:BC:414:ARG:HG3	2.46	0.41
2:BC:317:ILE:HD11	2:BE:162:LYS:HD2	2.02	0.41
2:BE:623:THR:OG1	2:BE:624:ASP:N	2.50	0.41
2:BF:407:ASN:OD1	2:BF:408:VAL:N	2.53	0.41
2:BF:483:ILE:HG21	2:BF:683:VAL:HG23	2.02	0.41
2:BG:661:PHE:CE1	2:BG:719:LEU:HD13	2.55	0.41
3:Ck:437:GLU:HG2	3:Ck:441:HIS:NE2	2.35	0.41
4:G:133:LYS:HG3	4:G:174:TYR:CE2	2.56	0.41
2:A0:202:ASP:HB2	2:A0:480:ARG:NE	2.31	0.41
2:A0:270:ARG:HE	2:A0:281:THR:HG23	1.86	0.41
2:A0:559:GLU:O	2:A0:718:GLY:HA2	2.21	0.41
2:A1:561:ILE:O	2:A1:720:ILE:HA	2.21	0.41
2:A2:211:PHE:HE1	2:A2:473:ASP:HB2	1.86	0.41
2:A2:289:LEU:HD12	2:A2:413:LEU:O	2.21	0.41
2:A2:473:ASP:OD1	2:A2:474:PHE:N	2.53	0.41
2:A2:489:PHE:CB	2:A2:507:LEU:HD22	2.51	0.41
2:A2:585:ILE:O	2:A2:589:ILE:HG13	2.20	0.41
2:A3:314:ASP:OD1	2:A3:315:ALA:N	2.48	0.41
2:A4:314:ASP:CB	2:A4:459:ARG:HB2	2.51	0.41
2:A4:343:GLY:O	2:Ay:547:GLU:HB2	2.21	0.41
2:A4:581:VAL:O	2:A4:585:ILE:HG13	2.20	0.41
2:A4:603:GLN:HB3	2:A4:604:PRO:HD3	2.03	0.41
2:A5:252:ARG:HA	2:A5:252:ARG:HD3	1.87	0.41
2:A5:369:ILE:O	2:A5:397:GLN:HA	2.20	0.41
2:A5:657:ARG:HA	2:A5:657:ARG:HD3	1.71	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A5:740:ASN:HB3	2:A7:734:LYS:HZ3	1.86	0.41
2:A6:237:ASN:HA	2:A7:517:ASN:ND2	2.35	0.41
2:A6:395:ALA:HB3	2:A7:538:PHE:CZ	2.52	0.41
2:A6:435:ARG:HA	2:A6:440:PHE:CD2	2.56	0.41
2:A6:517:ASN:OD1	2:A6:517:ASN:N	2.53	0.41
2:A7:322:ILE:HG13	2:A7:339:PHE:HB2	2.03	0.41
2:A7:343:GLY:O	2:A8:547:GLU:HB2	2.20	0.41
2:A8:200:GLY:N	2:A9:167:MET:HG2	2.36	0.41
2:A9:211:PHE:CE1	2:A9:473:ASP:HB2	2.56	0.41
2:A9:323:LEU:HD12	2:A9:323:LEU:HA	1.79	0.41
2:A9:435:ARG:HA	2:A9:440:PHE:CD2	2.56	0.41
2:Ar:250:ILE:H	2:Ar:295:ILE:CG2	2.33	0.41
2:Ar:321:LYS:O	2:Ar:455:GLU:N	2.53	0.41
2:As:180:ARG:HG3	2:As:515:PHE:CD2	2.56	0.41
2:As:247:LEU:HD12	2:As:458:ILE:HG22	2.03	0.41
2:As:250:ILE:H	2:As:295:ILE:CG2	2.33	0.41
2:At:262:VAL:HG21	2:At:283:TYR:HB2	2.02	0.41
2:At:289:LEU:HA	2:At:413:LEU:O	2.21	0.41
2:At:307:SER:HA	2:At:466:ARG:NH1	2.36	0.41
2:At:485:LEU:HB3	2:At:705:GLN:NE2	2.36	0.41
2:At:680:PHE:CE1	2:At:708:CYS:HB2	2.56	0.41
2:Au:159:TYR:HD1	2:Au:160:ASP:H	1.69	0.41
2:Au:211:PHE:CE1	2:Au:473:ASP:HB2	2.56	0.41
2:Au:328:SER:HB2	2:Au:385:ALA:HB1	2.03	0.41
2:Av:423:TYR:O	2:Av:435:ARG:NH2	2.53	0.41
2:Aw:585:ILE:O	2:Aw:589:ILE:HG13	2.21	0.41
2:Ax:212:ASN:C	2:Ax:471:HIS:HD2	2.29	0.41
2:Ay:267:VAL:HG22	2:Ay:378:VAL:HG11	2.03	0.41
2:Ay:298:ASP:OD1	2:Ay:301:ILE:HG13	2.21	0.41
2:Ay:328:SER:HB2	2:Ay:385:ALA:HB1	2.03	0.41
2:Ay:347:ASN:HB3	2:Ay:364:PHE:CE1	2.56	0.41
2:Ay:679:MET:HG3	2:Ay:711:VAL:HB	2.03	0.41
2:BB:210:VAL:N	2:BB:228:ARG:O	2.53	0.41
2:BB:210:VAL:HG22	2:BB:472:LEU:HD22	2.03	0.41
2:BB:240:LEU:O	2:BC:514:ARG:NE	2.54	0.41
2:BB:328:SER:HA	2:BB:446:ASP:O	2.20	0.41
2:BB:350:GLN:CD	2:BD:166:ASP:HB2	2.45	0.41
2:BC:200:GLY:C	2:BD:168:MET:SD	3.04	0.41
2:BC:249:PRO:O	2:BC:281:THR:HB	2.21	0.41
2:BC:351:LYS:HD2	2:BE:165:ARG:NH2	2.35	0.41
2:BC:393:LYS:HB2	2:BC:428:GLN:OE1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BC:738:GLN:HB2	2:BD:734:LYS:HD2	2.02	0.41
2:BD:201:TYR:HB2	2:BE:169:PRO:O	2.21	0.41
2:BD:659:LYS:HA	2:BD:720:ILE:O	2.20	0.41
2:BE:204:SER:N	2:BF:170:TYR:O	2.54	0.41
2:BE:394:SER:HB3	2:BE:426:VAL:O	2.21	0.41
2:BE:491:ILE:O	2:BE:701:GLU:HA	2.20	0.41
2:BF:298:ASP:OD2	2:BF:300:SER:OG	2.24	0.41
2:BF:485:LEU:HG	2:BF:707:ARG:CG	2.41	0.41
2:BF:630:PHE:HD1	2:BF:729:TYR:CE1	2.38	0.41
2:BF:660:ILE:HB	2:BF:720:ILE:HB	2.02	0.41
2:BF:703:MET:HE3	2:BF:703:MET:HB2	1.89	0.41
2:BG:170:TYR:O	2:BH:204:SER:N	2.50	0.41
2:BG:349:PHE:HB3	2:BG:360:MET:HB3	2.02	0.41
2:BH:651:ASN:HD22	2:BH:653:ASN:HB2	1.85	0.41
3:Ck:227:LYS:O	3:Ck:231:THR:OG1	2.30	0.41
3:Ck:256:MET:HE3	3:Ck:256:MET:HB3	1.92	0.41
3:Ck:915:PHE:HD1	3:Ck:915:PHE:HA	1.68	0.41
5:O:42:ALA:HB1	5:P:40:VAL:HB	2.03	0.41
5:O:45:GLU:OE1	5:O:45:GLU:N	2.49	0.41
5:P:2:ASN:HD22	5:P:2:ASN:H	1.68	0.41
8:a:57:LYS:HB3	8:a:57:LYS:HE2	1.75	0.41
8:a:178:ASN:OD1	8:a:181:ASP:N	2.42	0.41
2:A2:338:PRO:HD3	2:A2:378:VAL:HG22	2.03	0.41
2:A4:373:GLU:HB2	2:A4:390:ILE:HG23	2.03	0.41
2:A5:687:VAL:HA	2:A5:703:MET:O	2.21	0.41
2:As:357:PHE:HE1	2:BH:475:ASN:HA	1.86	0.41
2:As:560:GLU:CD	2:As:719:LEU:HD23	2.46	0.41
2:Au:326:ILE:O	2:Au:335:SER:N	2.46	0.41
2:Au:369:ILE:O	2:Au:397:GLN:HA	2.21	0.41
2:Au:538:PHE:HZ	2:Ax:395:ALA:HB3	1.86	0.41
2:Au:694:ARG:HB2	2:Au:697:GLN:HG3	2.03	0.41
2:Aw:560:GLU:HG3	2:Aw:719:LEU:HB3	2.01	0.41
2:Az:351:LYS:HG3	2:Az:352:SER:O	2.21	0.41
2:Az:676:THR:O	2:Az:713:ASN:HB2	2.21	0.41
2:BC:360:MET:HE3	2:BC:408:VAL:HG21	2.03	0.41
2:BC:529:ALA:O	2:BC:533:VAL:HG23	2.20	0.41
2:BD:703:MET:HE3	2:BD:703:MET:HB2	1.98	0.41
2:BE:430:ASN:HD21	2:BF:537:ARG:HG2	1.85	0.41
2:BG:206:ARG:HH21	2:BG:474:PHE:CB	2.34	0.41
2:BH:322:ILE:CG1	2:BH:339:PHE:HB2	2.51	0.41
5:O:66:ASP:O	5:O:70:LYS:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:92:ARG:O	5:O:96:GLU:HB2	2.21	0.41
2:A1:205:PHE:O	2:A1:476:MET:HA	2.21	0.40
2:A1:319:LEU:HA	2:A1:456:LEU:HD23	2.03	0.40
2:A1:350:GLN:C	2:A3:165:ARG:O	2.64	0.40
2:A2:219:ASP:OD1	2:A2:220:GLY:N	2.54	0.40
2:A2:666:ARG:NE	2:A2:675:LEU:HD12	2.32	0.40
2:A2:683:VAL:HB	2:A2:707:ARG:CB	2.52	0.40
2:A3:159:TYR:HD1	2:A3:159:TYR:HA	1.57	0.40
2:A3:639:THR:HA	2:A4:631:LEU:O	2.22	0.40
2:A4:274:ILE:HB	2:A4:279:TYR:CE2	2.56	0.40
2:A4:469:GLY:HA3	2:Ay:489:PHE:HA	2.02	0.40
2:A6:322:ILE:HA	2:A6:454:TYR:HA	2.03	0.40
2:A7:461:ASN:CG	2:A9:162:LYS:HE3	2.46	0.40
2:A7:549:PHE:CE2	2:A7:674:PRO:HG3	2.55	0.40
2:A8:491:ILE:CD1	2:A8:503:ASP:HB3	2.50	0.40
2:A8:736:PRO:HB2	2:A9:734:LYS:HG2	2.02	0.40
2:Ar:181:LEU:HD23	2:Ar:181:LEU:HA	1.93	0.40
2:Ar:289:LEU:HD12	2:Ar:413:LEU:O	2.20	0.40
2:As:558:PHE:CE1	2:As:717:LEU:HD23	2.56	0.40
2:Au:230:LEU:HD22	2:Av:506:VAL:HG13	2.03	0.40
2:Au:292:MET:HE2	2:Au:458:ILE:HD12	2.03	0.40
2:Av:679:MET:HG3	2:Av:711:VAL:HB	2.03	0.40
2:Aw:661:PHE:CE1	2:Aw:719:LEU:HD13	2.56	0.40
2:Az:373:GLU:CA	2:Az:390:ILE:HG12	2.40	0.40
2:BA:321:LYS:O	2:BA:455:GLU:N	2.54	0.40
2:BA:360:MET:HE2	2:BC:164:LEU:HB3	2.03	0.40
2:BA:435:ARG:HA	2:BA:440:PHE:CD2	2.56	0.40
2:BA:519:MET:HE3	2:BA:519:MET:HB3	1.93	0.40
2:BB:202:ASP:O	2:BC:170:TYR:N	2.54	0.40
2:BB:351:LYS:HE3	2:BB:352:SER:O	2.21	0.40
2:BB:379:LYS:O	4:G:148:ARG:NH1	2.54	0.40
2:BC:352:SER:H	2:BE:165:ARG:NH2	2.18	0.40
2:BG:369:ILE:O	2:BG:397:GLN:HA	2.21	0.40
2:BG:672:PRO:HB3	2:BG:679:MET:SD	2.61	0.40
2:BG:694:ARG:N	2:BG:697:GLN:O	2.55	0.40
3:Ck:198:MET:HE1	3:Ck:436:PHE:HE2	1.87	0.40
3:Ck:450:GLU:HG2	3:Ck:451:TRP:HD1	1.86	0.40
3:Ck:785:LEU:HB3	3:Ck:799:PHE:HE1	1.86	0.40
6:Q:168:TYR:O	6:Q:172:ILE:HG13	2.21	0.40
8:a:52:VAL:HG13	8:a:56:LEU:HD13	2.02	0.40
8:a:87:ARG:HG2	8:a:88:ALA:N	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A3:603:GLN:HB3	2:A3:604:PRO:HD3	2.03	0.40
2:A4:617:PRO:HG2	2:A4:644:PHE:CD1	2.55	0.40
2:A6:549:PHE:CE2	2:A6:674:PRO:HG3	2.56	0.40
2:A6:603:GLN:HB3	2:A6:604:PRO:HD3	2.02	0.40
2:A6:660:ILE:O	2:A6:719:LEU:HD12	2.21	0.40
2:A7:302:LEU:HA	2:A7:305:GLY:O	2.21	0.40
2:A7:666:ARG:NE	2:A7:675:LEU:HD12	2.34	0.40
2:Ar:529:ALA:O	2:Ar:533:VAL:HG23	2.21	0.40
2:As:356:ASP:OD1	2:As:357:PHE:N	2.55	0.40
2:As:585:ILE:O	2:As:589:ILE:HG13	2.21	0.40
2:At:181:LEU:HB3	2:At:182:SER:H	1.56	0.40
2:At:426:VAL:CG1	2:At:430:ASN:HA	2.51	0.40
2:At:450:LYS:HE3	2:At:450:LYS:HB2	1.88	0.40
2:Aw:535:THR:HG21	2:Aw:556:PRO:HB2	2.02	0.40
2:Ax:435:ARG:HA	2:Ax:440:PHE:CD2	2.56	0.40
2:Ax:559:GLU:CD	2:Ax:595:ARG:HH12	2.27	0.40
2:Az:678:GLY:CA	2:Az:712:ASN:HA	2.50	0.40
2:BA:165:ARG:HH22	2:BE:404:GLY:CA	2.35	0.40
2:BB:208:PRO:HA	2:BB:474:PHE:HA	2.02	0.40
2:BB:289:LEU:HA	2:BB:413:LEU:O	2.22	0.40
2:BC:311:ASP:O	2:BE:160:ASP:OD1	2.39	0.40
2:BD:301:ILE:O	2:BD:305:GLY:N	2.52	0.40
2:BD:323:LEU:HB3	2:BD:453:GLY:H	1.86	0.40
2:BD:570:GLN:NE2	2:BD:736:PRO:HD2	2.36	0.40
2:BE:486:LEU:HD12	2:BE:706:PRO:HG2	2.04	0.40
2:BG:543:ASP:CG	2:BH:424:ARG:HH12	2.25	0.40
2:BG:585:ILE:O	2:BG:589:ILE:HG13	2.21	0.40
3:Ck:793:PRO:CD	3:Ck:881:TYR:HE1	2.35	0.40
4:G:113:LEU:HD12	4:G:198:PHE:CD1	2.56	0.40
5:O:38:MET:HA	5:O:38:MET:HE2	2.03	0.40
2:A0:160:ASP:OD2	2:A8:461:ASN:ND2	2.55	0.40
2:A0:321:LYS:HB2	2:A0:455:GLU:HB3	2.03	0.40
2:A0:496:ASP:OD1	2:A0:496:ASP:N	2.51	0.40
2:A1:323:LEU:HA	2:A1:323:LEU:HD12	1.81	0.40
2:A1:549:PHE:CE2	2:A1:674:PRO:HG3	2.56	0.40
2:A1:694:ARG:O	2:A1:696:GLY:N	2.55	0.40
2:A2:165:ARG:HD3	2:Az:351:LYS:HB3	2.03	0.40
2:A3:201:TYR:OH	2:A4:168:MET:SD	2.71	0.40
2:A3:272:ILE:O	2:A3:278:THR:HA	2.20	0.40
2:A3:560:GLU:CD	2:A3:719:LEU:HD23	2.46	0.40
2:A3:581:VAL:O	2:A3:585:ILE:HG13	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:409:GLU:HG3	2:Az:161:GLN:HG2	2.03	0.40
2:A5:162:LYS:HD2	2:A9:461:ASN:ND2	2.30	0.40
2:A5:199:ILE:N	2:A6:166:ASP:O	2.55	0.40
2:A5:214:LEU:HD21	2:A5:223:ALA:HB1	2.02	0.40
2:A5:333:LYS:HD3	2:A5:384:GLU:HB3	2.03	0.40
2:A8:241:SER:O	2:A8:470:LYS:HE3	2.21	0.40
2:A8:494:PRO:O	2:A8:700:LYS:HE2	2.22	0.40
2:Ar:206:ARG:N	2:As:172:VAL:O	2.52	0.40
2:As:395:ALA:HB3	2:Ax:538:PHE:CZ	2.55	0.40
2:At:181:LEU:HD13	2:At:181:LEU:HA	1.95	0.40
2:At:249:PRO:HA	2:At:295:ILE:HG21	2.03	0.40
2:At:462:ASN:ND2	2:At:467:GLU:HB2	2.36	0.40
2:At:527:LYS:HE2	2:At:527:LYS:HB3	1.88	0.40
2:At:609:LEU:HD12	2:At:609:LEU:HA	1.89	0.40
2:At:627:ILE:O	2:At:629:GLN:N	2.53	0.40
2:At:727:LYS:H	2:At:727:LYS:HD3	1.86	0.40
2:Au:562:ASN:HA	2:Au:721:ASN:HB2	2.04	0.40
2:Aw:181:LEU:HD21	2:Aw:515:PHE:HB3	2.04	0.40
2:Aw:489:PHE:O	2:Aw:703:MET:HA	2.21	0.40
2:Ax:272:ILE:O	2:Ax:278:THR:HA	2.22	0.40
2:Ax:328:SER:HA	2:Ax:446:ASP:O	2.20	0.40
2:Ax:585:ILE:O	2:Ax:589:ILE:HG13	2.22	0.40
2:BA:203:VAL:HA	2:BB:170:TYR:O	2.21	0.40
2:BA:570:GLN:O	2:BB:574:THR:N	2.54	0.40
2:BB:346:THR:C	2:BD:167:MET:CE	2.95	0.40
2:BC:210:VAL:HG13	2:BC:472:LEU:HD23	2.02	0.40
2:BC:540:GLN:HA	2:BC:555:ARG:HH12	1.85	0.40
2:BD:200:GLY:CA	2:BE:168:MET:HG3	2.51	0.40
2:BE:179:SER:O	2:BE:512:ASN:HB3	2.21	0.40
2:BG:373:GLU:OE1	2:BG:393:LYS:HG2	2.21	0.40
2:BG:581:VAL:O	2:BG:585:ILE:HG13	2.21	0.40
2:BH:203:VAL:O	2:BH:479:GLU:N	2.42	0.40
7:R:120:LEU:H	7:R:120:LEU:HD23	1.86	0.40
8:a:279:LYS:O	8:a:280:LYS:C	2.65	0.40
1:B:33:PRO:HB3	2:BA:215:ARG:HH22	1.86	0.40
1:B:33:PRO:HB3	2:BA:215:ARG:NH2	2.37	0.40
2:A1:211:PHE:HE1	2:A1:473:ASP:HB2	1.84	0.40
2:A1:219:ASP:OD1	2:A1:220:GLY:N	2.55	0.40
2:A1:317:ILE:HD11	2:A3:162:LYS:NZ	2.37	0.40
2:A3:588:VAL:HG22	2:A4:730:THR:HG22	2.03	0.40
2:A5:181:LEU:HD21	2:A5:515:PHE:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A5:475:ASN:HA	2:BC:357:PHE:HE1	1.87	0.40
2:A6:202:ASP:HB3	2:A7:169:PRO:HA	2.03	0.40
2:A6:370:PHE:HA	2:A6:396:ALA:O	2.22	0.40
2:A7:159:TYR:HD1	2:A7:160:ASP:H	1.70	0.40
2:A7:682:TYR:OH	2:A7:684:PRO:HA	2.21	0.40
2:A8:357:PHE:HE1	2:As:475:ASN:HA	1.86	0.40
2:Ar:347:ASN:HB3	2:Ar:364:PHE:CE1	2.56	0.40
2:As:165:ARG:HH12	2:Aw:353:LEU:HD23	1.83	0.40
2:As:603:GLN:HB3	2:As:604:PRO:HD3	2.04	0.40
2:Au:651:ASN:ND2	2:Au:653:ASN:HB2	2.36	0.40
2:Au:656:LEU:HD23	2:Au:656:LEU:HA	1.85	0.40
2:Av:395:ALA:CB	2:Aw:538:PHE:HZ	2.34	0.40
2:Ax:349:PHE:CE1	2:Ax:362:LEU:HD22	2.57	0.40
2:BA:503:ASP:HA	2:BF:472:LEU:HD12	2.04	0.40
2:BA:617:PRO:HG2	2:BA:644:PHE:CD1	2.56	0.40
2:BB:493:ARG:HA	2:BB:493:ARG:HD3	1.81	0.40
2:BD:323:LEU:N	2:BD:453:GLY:O	2.50	0.40
2:BD:338:PRO:HD3	2:BD:378:VAL:HG22	2.03	0.40
2:BD:349:PHE:CD1	2:BD:362:LEU:HB2	2.56	0.40
2:BD:603:GLN:HB3	2:BD:604:PRO:HD3	2.02	0.40
2:BE:318:THR:O	2:BE:457:ARG:HB3	2.21	0.40
2:BE:393:LYS:HB2	2:BE:428:GLN:HB3	2.03	0.40
2:BE:473:ASP:CG	2:BF:493:ARG:HH22	2.30	0.40
2:BF:656:LEU:HA	2:BF:656:LEU:HD23	1.85	0.40
2:BG:272:ILE:O	2:BG:278:THR:HA	2.21	0.40
2:BG:562:ASN:HA	2:BG:721:ASN:HB2	2.03	0.40
4:G:182:GLU:O	4:G:186:ILE:HG13	2.22	0.40
6:Q:125:THR:HA	6:Q:130:LYS:NZ	2.37	0.40
2:A0:657:ARG:HA	2:A0:657:ARG:HD3	1.77	0.40
2:A1:317:ILE:HA	2:A1:457:ARG:O	2.22	0.40
2:A1:465:ARG:HH12	2:A2:689:VAL:C	2.29	0.40
2:A2:326:ILE:O	2:A2:334:THR:HA	2.21	0.40
2:A2:535:THR:HG21	2:A2:556:PRO:HB2	2.02	0.40
2:A3:373:GLU:CA	2:A3:390:ILE:HG12	2.39	0.40
2:A4:319:LEU:HA	2:A4:456:LEU:HD23	2.03	0.40
2:A5:697:GLN:CA	2:Az:466:ARG:HH21	2.33	0.40
2:A6:369:ILE:O	2:A6:397:GLN:HA	2.22	0.40
2:A7:215:ARG:HD2	2:A8:695:ASN:HD21	1.86	0.40
2:A7:585:ILE:O	2:A7:589:ILE:HG13	2.21	0.40
2:A8:272:ILE:O	2:A8:278:THR:HA	2.21	0.40
2:A8:557:TRP:CZ3	2:A8:596:MET:HG2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A9:493:ARG:HD3	2:A9:493:ARG:HA	1.77	0.40
2:As:270:ARG:HG2	2:As:281:THR:O	2.21	0.40
2:At:322:ILE:HA	2:At:454:TYR:HA	2.03	0.40
2:At:400:ILE:HG13	2:At:419:ASN:O	2.22	0.40
2:At:493:ARG:HD3	2:At:493:ARG:HA	1.92	0.40
2:At:689:VAL:HA	2:At:701:GLU:O	2.22	0.40
2:Au:347:ASN:HB3	2:Au:364:PHE:CE1	2.57	0.40
2:Av:695:ASN:OD1	2:Av:695:ASN:N	2.53	0.40
2:Aw:657:ARG:HD3	2:Aw:657:ARG:HA	1.77	0.40
2:Ax:657:ARG:HA	2:Ax:657:ARG:HD3	1.76	0.40
2:Ay:199:ILE:HG22	2:Ay:483:ILE:H	1.86	0.40
2:Ay:661:PHE:CE1	2:Ay:719:LEU:HD13	2.56	0.40
2:BA:176:VAL:HG22	2:BF:231:LEU:CD1	2.51	0.40
2:BA:382:LYS:HE2	2:BA:390:ILE:HD13	2.03	0.40
2:BA:549:PHE:CE2	2:BA:674:PRO:HG3	2.57	0.40
2:BC:585:ILE:O	2:BC:589:ILE:HG13	2.21	0.40
2:BD:367:HIS:HA	2:BD:398:LEU:O	2.21	0.40
2:BE:271:ASP:OD1	2:BE:280:LYS:HG2	2.21	0.40
2:BE:336:TYR:CD2	2:BE:452:VAL:HG21	2.55	0.40
2:BE:570:GLN:NE2	2:BF:733:ILE:O	2.54	0.40
2:BE:582:SER:OG	2:BE:632:GLN:N	2.50	0.40
2:BG:732:ASN:OD1	2:BH:570:GLN:HB2	2.20	0.40
2:BH:211:PHE:HE1	2:BH:473:ASP:HB2	1.86	0.40
4:G:94:THR:O	4:G:98:LEU:HG	2.22	0.40
6:Q:152:LEU:CB	6:Q:163:ARG:HH21	2.34	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	94/104 (90%)	93 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	A0	581/740 (78%)	567 (98%)	14 (2%)	0	100	100
2	A1	581/740 (78%)	566 (97%)	15 (3%)	0	100	100
2	A2	581/740 (78%)	567 (98%)	14 (2%)	0	100	100
2	A3	581/740 (78%)	567 (98%)	14 (2%)	0	100	100
2	A4	581/740 (78%)	566 (97%)	15 (3%)	0	100	100
2	A5	581/740 (78%)	566 (97%)	15 (3%)	0	100	100
2	A6	581/740 (78%)	566 (97%)	15 (3%)	0	100	100
2	A7	581/740 (78%)	567 (98%)	14 (2%)	0	100	100
2	A8	581/740 (78%)	565 (97%)	16 (3%)	0	100	100
2	A9	581/740 (78%)	565 (97%)	16 (3%)	0	100	100
2	Ar	581/740 (78%)	567 (98%)	14 (2%)	0	100	100
2	As	581/740 (78%)	568 (98%)	13 (2%)	0	100	100
2	At	574/740 (78%)	532 (93%)	41 (7%)	1 (0%)	43	77
2	Au	581/740 (78%)	567 (98%)	14 (2%)	0	100	100
2	Av	581/740 (78%)	568 (98%)	13 (2%)	0	100	100
2	Aw	581/740 (78%)	567 (98%)	14 (2%)	0	100	100
2	Ax	581/740 (78%)	566 (97%)	15 (3%)	0	100	100
2	Ay	581/740 (78%)	566 (97%)	15 (3%)	0	100	100
2	Az	581/740 (78%)	567 (98%)	14 (2%)	0	100	100
2	BA	581/740 (78%)	567 (98%)	14 (2%)	0	100	100
2	BB	581/740 (78%)	566 (97%)	15 (3%)	0	100	100
2	BC	581/740 (78%)	566 (97%)	15 (3%)	0	100	100
2	BD	581/740 (78%)	567 (98%)	14 (2%)	0	100	100
2	BE	581/740 (78%)	566 (97%)	15 (3%)	0	100	100
2	BF	581/740 (78%)	568 (98%)	13 (2%)	0	100	100
2	BG	581/740 (78%)	567 (98%)	14 (2%)	0	100	100
2	BH	581/740 (78%)	566 (97%)	15 (3%)	0	100	100
3	Ck	652/934 (70%)	630 (97%)	21 (3%)	1 (0%)	43	77
4	G	145/212 (68%)	142 (98%)	3 (2%)	0	100	100
5	O	120/146 (82%)	116 (97%)	4 (3%)	0	100	100
5	P	140/146 (96%)	137 (98%)	3 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	Q	204/206 (99%)	189 (93%)	15 (7%)	0	100	100
7	R	170/176 (97%)	160 (94%)	10 (6%)	0	100	100
8	a	223/280 (80%)	219 (98%)	4 (2%)	0	100	100
All	All	17428/22184 (79%)	16949 (97%)	477 (3%)	2 (0%)	100	100

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	At	642	VAL
3	Ck	327	GLU

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	83/91 (91%)	83 (100%)	0	100	100
2	A0	509/644 (79%)	502 (99%)	7 (1%)	59	72
2	A1	509/644 (79%)	501 (98%)	8 (2%)	55	70
2	A2	509/644 (79%)	502 (99%)	7 (1%)	59	72
2	A3	509/644 (79%)	499 (98%)	10 (2%)	48	66
2	A4	509/644 (79%)	502 (99%)	7 (1%)	59	72
2	A5	509/644 (79%)	501 (98%)	8 (2%)	55	70
2	A6	509/644 (79%)	502 (99%)	7 (1%)	59	72
2	A7	509/644 (79%)	502 (99%)	7 (1%)	59	72
2	A8	509/644 (79%)	502 (99%)	7 (1%)	59	72
2	A9	509/644 (79%)	502 (99%)	7 (1%)	59	72
2	Ar	509/644 (79%)	502 (99%)	7 (1%)	59	72
2	As	509/644 (79%)	502 (99%)	7 (1%)	59	72
2	At	500/644 (78%)	472 (94%)	28 (6%)	19	40
2	Au	509/644 (79%)	502 (99%)	7 (1%)	59	72

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	Av	509/644 (79%)	501 (98%)	8 (2%)	55	70
2	Aw	509/644 (79%)	502 (99%)	7 (1%)	59	72
2	Ax	509/644 (79%)	502 (99%)	7 (1%)	59	72
2	Ay	509/644 (79%)	502 (99%)	7 (1%)	59	72
2	Az	509/644 (79%)	501 (98%)	8 (2%)	55	70
2	BA	509/644 (79%)	500 (98%)	9 (2%)	51	68
2	BB	509/644 (79%)	502 (99%)	7 (1%)	59	72
2	BC	509/644 (79%)	502 (99%)	7 (1%)	59	72
2	BD	509/644 (79%)	502 (99%)	7 (1%)	59	72
2	BE	509/644 (79%)	500 (98%)	9 (2%)	51	68
2	BF	509/644 (79%)	501 (98%)	8 (2%)	55	70
2	BG	509/644 (79%)	502 (99%)	7 (1%)	59	72
2	BH	509/644 (79%)	502 (99%)	7 (1%)	59	72
3	Ck	573/811 (71%)	536 (94%)	37 (6%)	15	37
4	G	125/177 (71%)	119 (95%)	6 (5%)	23	44
5	O	101/118 (86%)	98 (97%)	3 (3%)	36	57
5	P	108/118 (92%)	103 (95%)	5 (5%)	24	45
6	Q	168/186 (90%)	158 (94%)	10 (6%)	17	39
7	R	155/160 (97%)	150 (97%)	5 (3%)	34	55
8	a	195/241 (81%)	190 (97%)	5 (3%)	40	61
All	All	15242/19290 (79%)	14949 (98%)	293 (2%)	49	67

All (293) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	A0	262	VAL
2	A0	413	LEU
2	A0	464	ASN
2	A0	546	ILE
2	A0	642	VAL
2	A0	649	VAL
2	A0	658	ASP
2	A1	262	VAL
2	A1	408	VAL
2	A1	413	LEU

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Mol	Chain	Res	Type
2	A1	464	ASN
2	A1	546	ILE
2	A1	642	VAL
2	A1	649	VAL
2	A1	658	ASP
2	A2	262	VAL
2	A2	413	LEU
2	A2	464	ASN
2	A2	546	ILE
2	A2	642	VAL
2	A2	649	VAL
2	A2	658	ASP
2	A3	159	TYR
2	A3	165	ARG
2	A3	172	VAL
2	A3	262	VAL
2	A3	413	LEU
2	A3	464	ASN
2	A3	546	ILE
2	A3	642	VAL
2	A3	649	VAL
2	A3	658	ASP
2	A4	262	VAL
2	A4	413	LEU
2	A4	464	ASN
2	A4	546	ILE
2	A4	642	VAL
2	A4	649	VAL
2	A4	658	ASP
2	A5	165	ARG
2	A5	262	VAL
2	A5	413	LEU
2	A5	464	ASN
2	A5	546	ILE
2	A5	642	VAL
2	A5	649	VAL
2	A5	658	ASP
2	A6	262	VAL
2	A6	413	LEU
2	A6	464	ASN
2	A6	546	ILE
2	A6	642	VAL

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Mol	Chain	Res	Type
2	A6	649	VAL
2	A6	658	ASP
2	A7	262	VAL
2	A7	413	LEU
2	A7	464	ASN
2	A7	546	ILE
2	A7	642	VAL
2	A7	649	VAL
2	A7	658	ASP
2	A8	262	VAL
2	A8	413	LEU
2	A8	464	ASN
2	A8	546	ILE
2	A8	642	VAL
2	A8	649	VAL
2	A8	658	ASP
2	A9	262	VAL
2	A9	413	LEU
2	A9	464	ASN
2	A9	546	ILE
2	A9	642	VAL
2	A9	649	VAL
2	A9	658	ASP
2	Ar	262	VAL
2	Ar	413	LEU
2	Ar	464	ASN
2	Ar	546	ILE
2	Ar	642	VAL
2	Ar	649	VAL
2	Ar	658	ASP
2	As	262	VAL
2	As	413	LEU
2	As	464	ASN
2	As	546	ILE
2	As	642	VAL
2	As	649	VAL
2	As	658	ASP
2	At	163	GLU
2	At	176	VAL
2	At	190	ASN
2	At	211	PHE
2	At	227	ARG

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Mol	Chain	Res	Type
2	At	262	VAL
2	At	263	ASP
2	At	277	VAL
2	At	413	LEU
2	At	415	VAL
2	At	460	ARG
2	At	495	LEU
2	At	498	GLU
2	At	530	LEU
2	At	573	THR
2	At	574	THR
2	At	576	GLU
2	At	623	THR
2	At	634	ASP
2	At	637	PHE
2	At	649	VAL
2	At	654	VAL
2	At	663	THR
2	At	683	VAL
2	At	711	VAL
2	At	722	VAL
2	At	727	LYS
2	At	729	TYR
2	Au	262	VAL
2	Au	413	LEU
2	Au	464	ASN
2	Au	546	ILE
2	Au	642	VAL
2	Au	649	VAL
2	Au	658	ASP
2	Av	262	VAL
2	Av	409	GLU
2	Av	413	LEU
2	Av	464	ASN
2	Av	546	ILE
2	Av	642	VAL
2	Av	649	VAL
2	Av	658	ASP
2	Aw	262	VAL
2	Aw	413	LEU
2	Aw	464	ASN
2	Aw	546	ILE

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Mol	Chain	Res	Type
2	Aw	642	VAL
2	Aw	649	VAL
2	Aw	658	ASP
2	Ax	262	VAL
2	Ax	413	LEU
2	Ax	464	ASN
2	Ax	546	ILE
2	Ax	642	VAL
2	Ax	649	VAL
2	Ax	658	ASP
2	Ay	262	VAL
2	Ay	413	LEU
2	Ay	464	ASN
2	Ay	546	ILE
2	Ay	642	VAL
2	Ay	649	VAL
2	Ay	658	ASP
2	Az	165	ARG
2	Az	262	VAL
2	Az	413	LEU
2	Az	464	ASN
2	Az	546	ILE
2	Az	642	VAL
2	Az	649	VAL
2	Az	658	ASP
2	BA	159	TYR
2	BA	164	LEU
2	BA	262	VAL
2	BA	413	LEU
2	BA	464	ASN
2	BA	546	ILE
2	BA	642	VAL
2	BA	649	VAL
2	BA	658	ASP
2	BB	262	VAL
2	BB	413	LEU
2	BB	464	ASN
2	BB	546	ILE
2	BB	642	VAL
2	BB	649	VAL
2	BB	658	ASP
2	BC	262	VAL

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Mol	Chain	Res	Type
2	BC	413	LEU
2	BC	464	ASN
2	BC	546	ILE
2	BC	642	VAL
2	BC	649	VAL
2	BC	658	ASP
2	BD	262	VAL
2	BD	413	LEU
2	BD	464	ASN
2	BD	546	ILE
2	BD	642	VAL
2	BD	649	VAL
2	BD	658	ASP
2	BE	159	TYR
2	BE	262	VAL
2	BE	413	LEU
2	BE	454	TYR
2	BE	464	ASN
2	BE	546	ILE
2	BE	642	VAL
2	BE	649	VAL
2	BE	658	ASP
2	BF	262	VAL
2	BF	413	LEU
2	BF	464	ASN
2	BF	480	ARG
2	BF	546	ILE
2	BF	642	VAL
2	BF	649	VAL
2	BF	658	ASP
2	BG	262	VAL
2	BG	413	LEU
2	BG	464	ASN
2	BG	546	ILE
2	BG	642	VAL
2	BG	649	VAL
2	BG	658	ASP
2	BH	262	VAL
2	BH	413	LEU
2	BH	464	ASN
2	BH	546	ILE
2	BH	642	VAL

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Mol	Chain	Res	Type
2	BH	649	VAL
2	BH	658	ASP
3	Ck	165	THR
3	Ck	166	ASN
3	Ck	167	LYS
3	Ck	199	THR
3	Ck	202	ASP
3	Ck	214	ILE
3	Ck	223	ASN
3	Ck	245	LYS
3	Ck	263	PHE
3	Ck	276	PHE
3	Ck	283	HIS
3	Ck	284	TRP
3	Ck	324	LEU
3	Ck	325	HIS
3	Ck	330	ILE
3	Ck	357	ASP
3	Ck	394	TYR
3	Ck	399	TYR
3	Ck	412	MET
3	Ck	423	HIS
3	Ck	427	GLU
3	Ck	439	LYS
3	Ck	445	LEU
3	Ck	461	ARG
3	Ck	463	VAL
3	Ck	469	TYR
3	Ck	632	VAL
3	Ck	693	ASP
3	Ck	744	GLN
3	Ck	783	ASN
3	Ck	784	GLU
3	Ck	791	LEU
3	Ck	844	ASP
3	Ck	845	ASN
3	Ck	864	VAL
3	Ck	881	TYR
3	Ck	915	PHE
4	G	109	PHE
4	G	115	VAL
4	G	151	ASP

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Mol	Chain	Res	Type
4	G	178	ARG
4	G	199	ASP
4	G	202	ASN
5	O	36	TYR
5	O	78	ASP
5	O	96	GLU
5	P	3	ILE
5	P	20	GLU
5	P	57	HIS
5	P	78	ASP
5	P	101	GLU
6	Q	3	GLU
6	Q	5	ARG
6	Q	7	LEU
6	Q	80	HIS
6	Q	81	TYR
6	Q	84	THR
6	Q	184	VAL
6	Q	197	ARG
6	Q	200	HIS
6	Q	203	LEU
7	R	4	LEU
7	R	29	ASN
7	R	49	ASP
7	R	104	VAL
7	R	125	ARG
8	a	49	LYS
8	a	63	VAL
8	a	115	THR
8	a	117	LEU
8	a	204	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (152) such sidechains are listed below:

Mol	Chain	Res	Type
2	A0	367	HIS
2	A0	629	GLN
2	A0	651	ASN
2	A0	697	GLN
2	A1	316	GLN
2	A1	367	HIS
2	A1	629	GLN

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Mol	Chain	Res	Type
2	A1	651	ASN
2	A2	213	HIS
2	A2	237	ASN
2	A2	304	ASN
2	A2	367	HIS
2	A2	629	GLN
2	A2	651	ASN
2	A3	397	GLN
2	A3	540	GLN
2	A3	651	ASN
2	A3	697	GLN
2	A3	732	ASN
2	A4	304	ASN
2	A4	367	HIS
2	A4	419	ASN
2	A4	629	GLN
2	A4	651	ASN
2	A5	161	GLN
2	A5	213	HIS
2	A5	651	ASN
2	A5	697	GLN
2	A5	705	GLN
2	A6	367	HIS
2	A6	651	ASN
2	A7	367	HIS
2	A7	570	GLN
2	A7	629	GLN
2	A7	651	ASN
2	A8	213	HIS
2	A8	304	ASN
2	A8	367	HIS
2	A8	461	ASN
2	A8	651	ASN
2	A9	304	ASN
2	A9	367	HIS
2	A9	471	HIS
2	A9	651	ASN
2	Ar	367	HIS
2	Ar	629	GLN
2	Ar	651	ASN
2	As	304	ASN
2	As	367	HIS

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Mol	Chain	Res	Type
2	As	419	ASN
2	As	540	GLN
2	As	651	ASN
2	As	705	GLN
2	At	367	HIS
2	At	387	GLN
2	At	461	ASN
2	At	570	GLN
2	At	651	ASN
2	At	705	GLN
2	Au	237	ASN
2	Au	304	ASN
2	Au	461	ASN
2	Au	629	GLN
2	Au	651	ASN
2	Av	397	GLN
2	Av	540	GLN
2	Av	651	ASN
2	Av	705	GLN
2	Aw	304	ASN
2	Aw	367	HIS
2	Aw	464	ASN
2	Aw	629	GLN
2	Aw	651	ASN
2	Ax	367	HIS
2	Ax	464	ASN
2	Ax	629	GLN
2	Ax	651	ASN
2	Ay	237	ASN
2	Ay	416	ASN
2	Ay	545	GLN
2	Ay	629	GLN
2	Ay	651	ASN
2	Ay	691	GLN
2	Az	304	ASN
2	Az	416	ASN
2	Az	540	GLN
2	Az	651	ASN
2	BA	161	GLN
2	BA	217	ASN
2	BA	367	HIS
2	BA	397	GLN

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Mol	Chain	Res	Type
2	BA	651	ASN
2	BA	705	GLN
2	BA	713	ASN
2	BB	367	HIS
2	BB	419	ASN
2	BB	651	ASN
2	BC	237	ASN
2	BC	304	ASN
2	BC	367	HIS
2	BC	397	GLN
2	BC	419	ASN
2	BC	545	GLN
2	BC	629	GLN
2	BC	651	ASN
2	BD	190	ASN
2	BD	213	HIS
2	BD	217	ASN
2	BD	304	ASN
2	BD	545	GLN
2	BD	587	ASN
2	BD	651	ASN
2	BE	161	GLN
2	BE	304	ASN
2	BE	430	ASN
2	BE	540	GLN
2	BE	651	ASN
2	BE	705	GLN
2	BF	212	ASN
2	BF	213	HIS
2	BF	242	ASN
2	BF	304	ASN
2	BF	629	GLN
2	BF	651	ASN
2	BF	691	GLN
2	BG	367	HIS
2	BG	691	GLN
2	BG	705	GLN
2	BH	304	ASN
2	BH	367	HIS
2	BH	651	ASN
3	Ck	161	HIS
3	Ck	272	ASN

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Mol	Chain	Res	Type
3	Ck	281	GLN
3	Ck	790	HIS
5	O	9	GLN
5	O	57	HIS
5	P	2	ASN
5	P	9	GLN
5	P	22	GLN
5	P	95	HIS
5	P	113	GLN
6	Q	41	ASN
7	R	29	ASN
7	R	103	ASN
7	R	105	GLN
7	R	123	HIS
8	a	40	ASN
8	a	78	ASN
8	a	153	ASN
8	a	227	ASN
8	a	277	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides 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 ⓘ

There are no chain breaks in this entry.

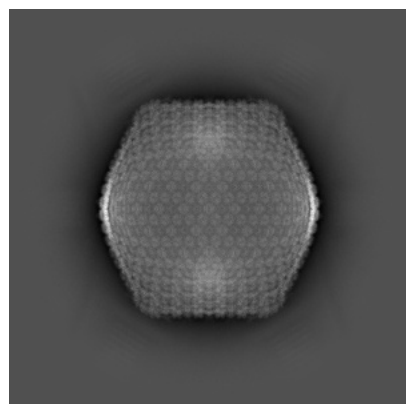
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-75836. These allow visual inspection of the internal detail of the map and identification of artifacts.

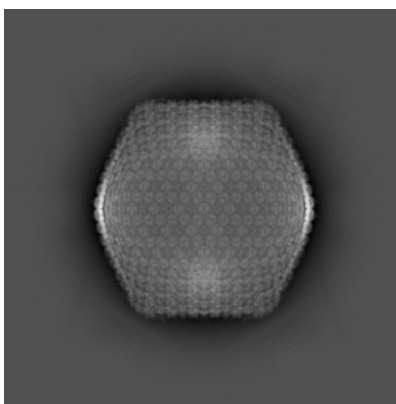
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

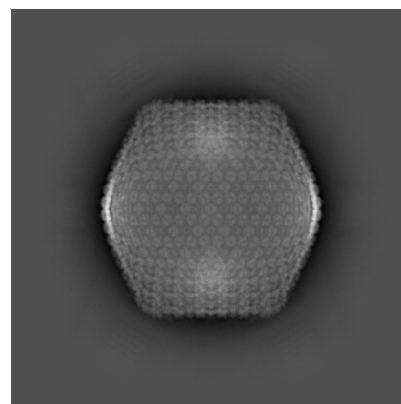
6.1.1 Primary map



X

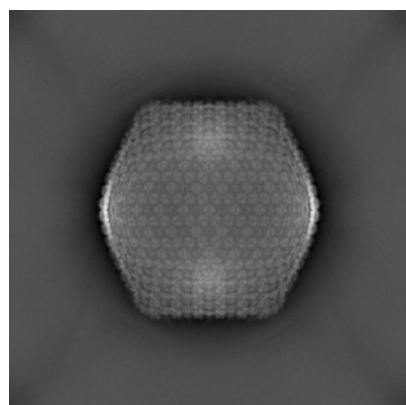


Y

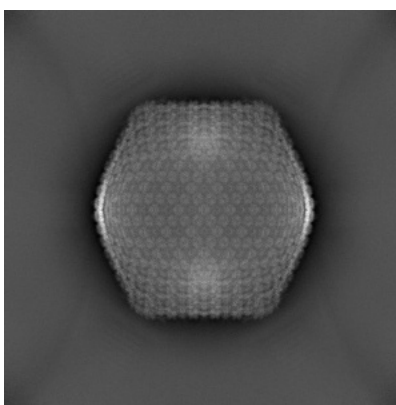


Z

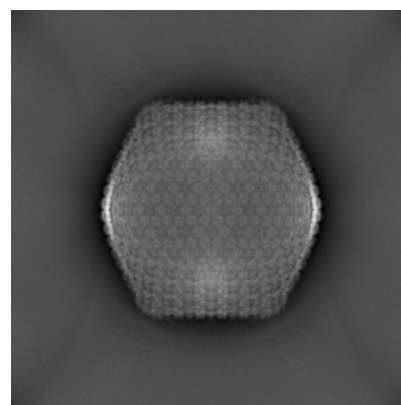
6.1.2 Raw map



X



Y

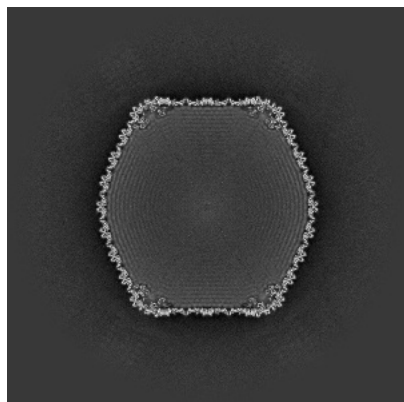


Z

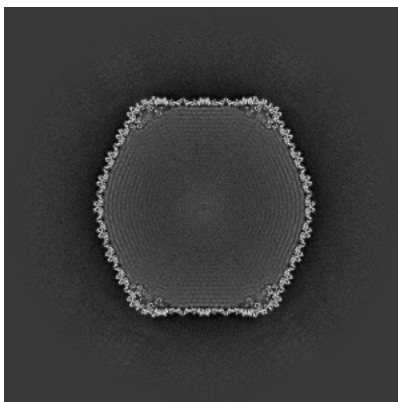
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

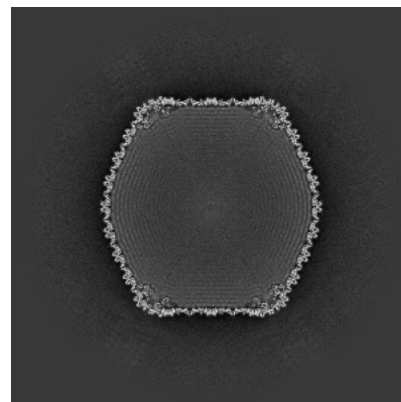
6.2.1 Primary map



X Index: 400

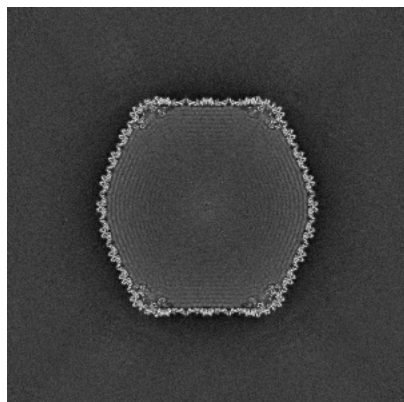


Y Index: 400

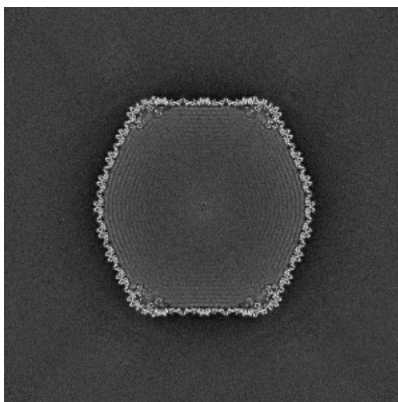


Z Index: 400

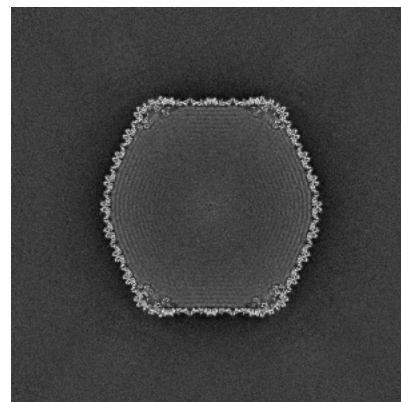
6.2.2 Raw map



X Index: 400



Y Index: 400

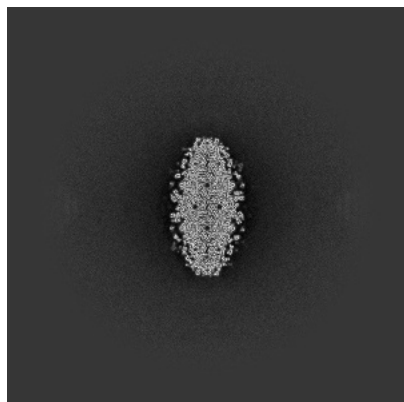


Z Index: 400

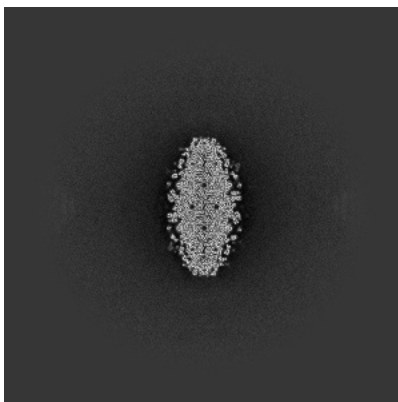
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

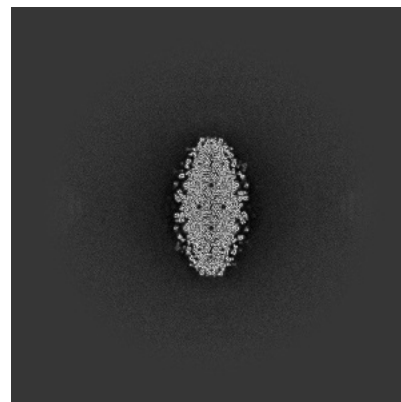
6.3.1 Primary map



X Index: 196

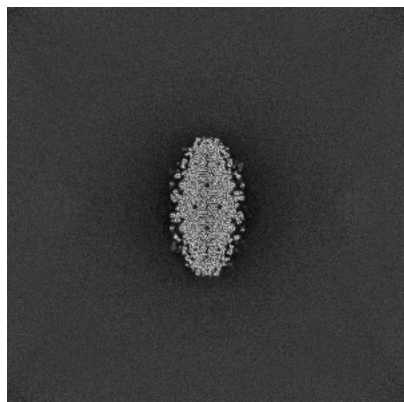


Y Index: 196

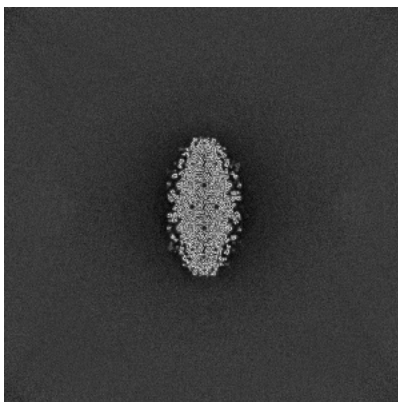


Z Index: 196

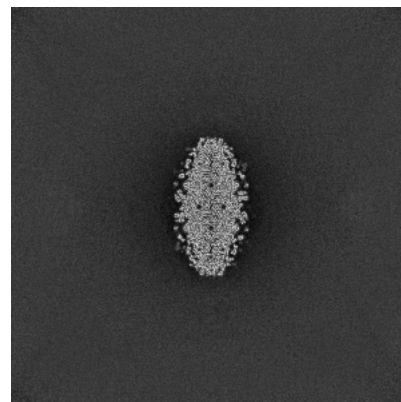
6.3.2 Raw map



X Index: 196



Y Index: 196

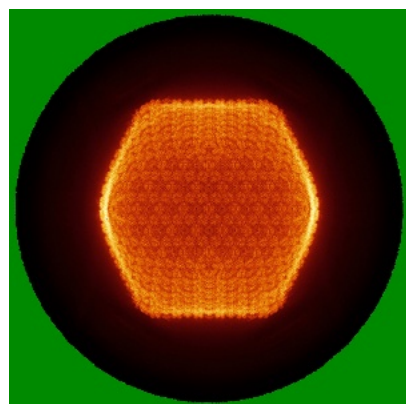


Z Index: 196

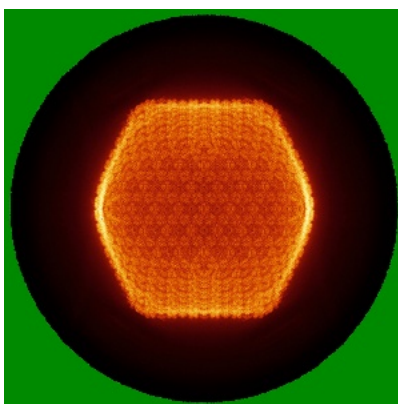
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

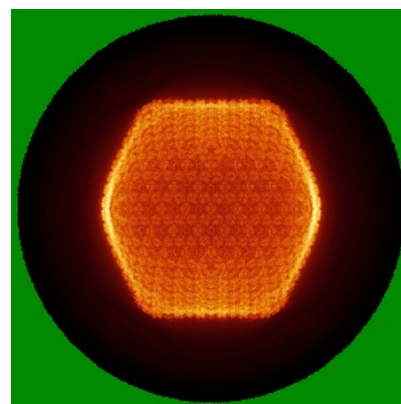
6.4.1 Primary map



X

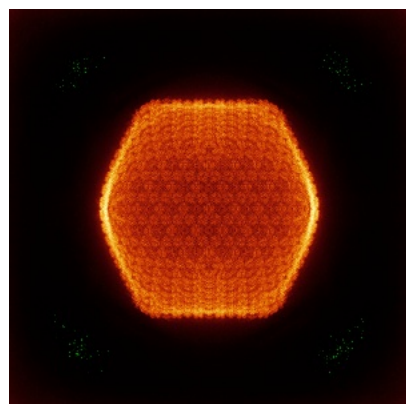


Y

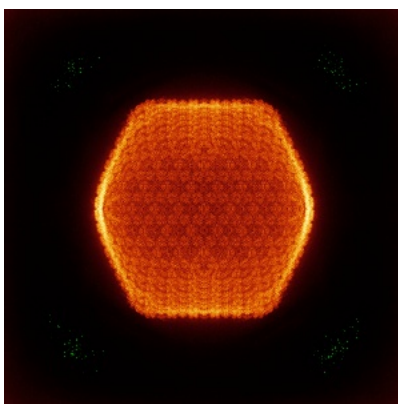


Z

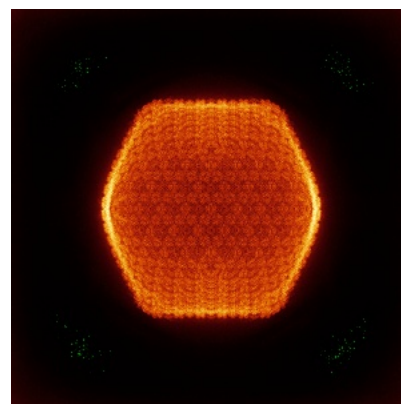
6.4.2 Raw map



X



Y

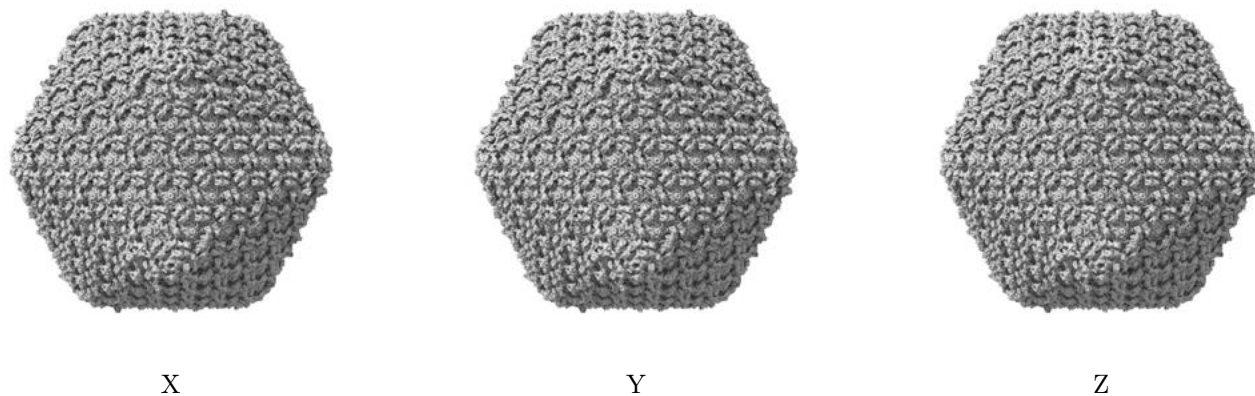


Z

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

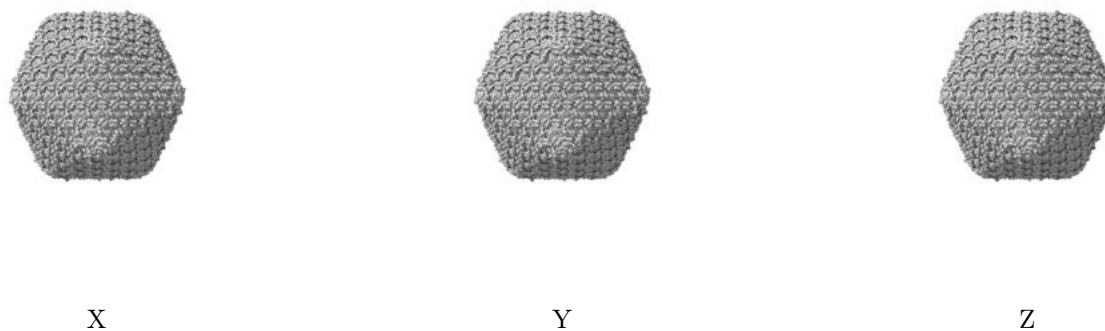
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.3. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

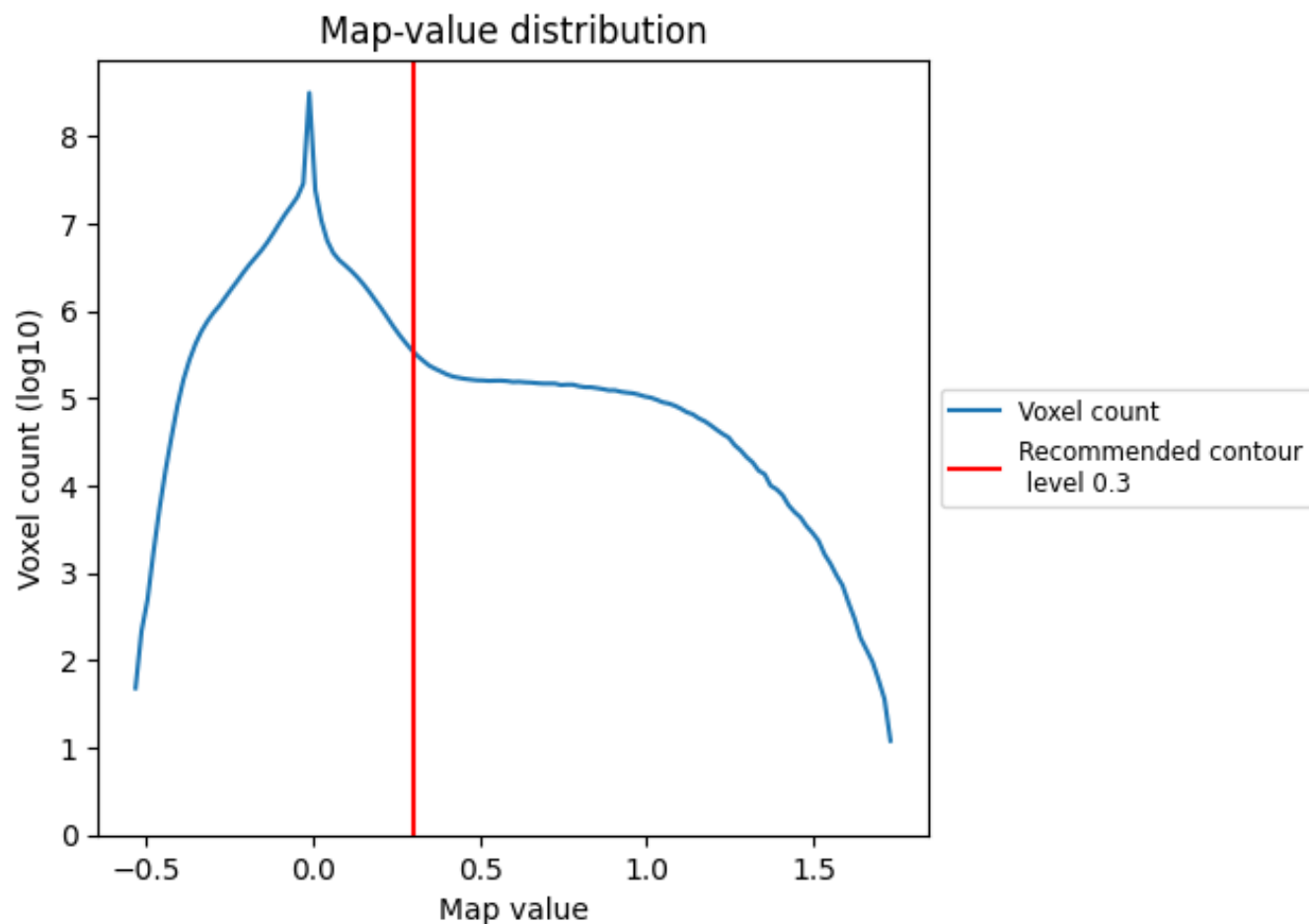
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

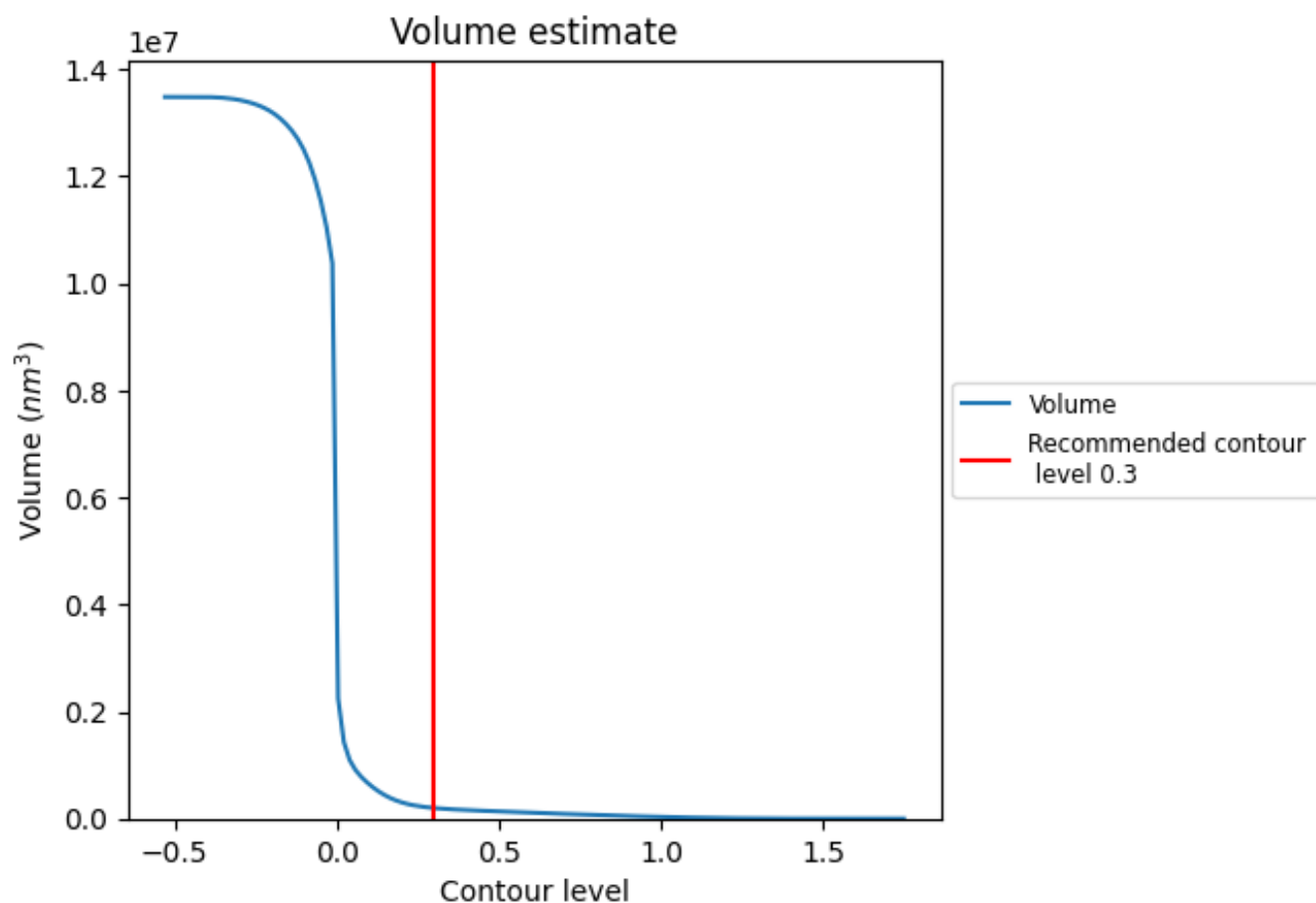
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

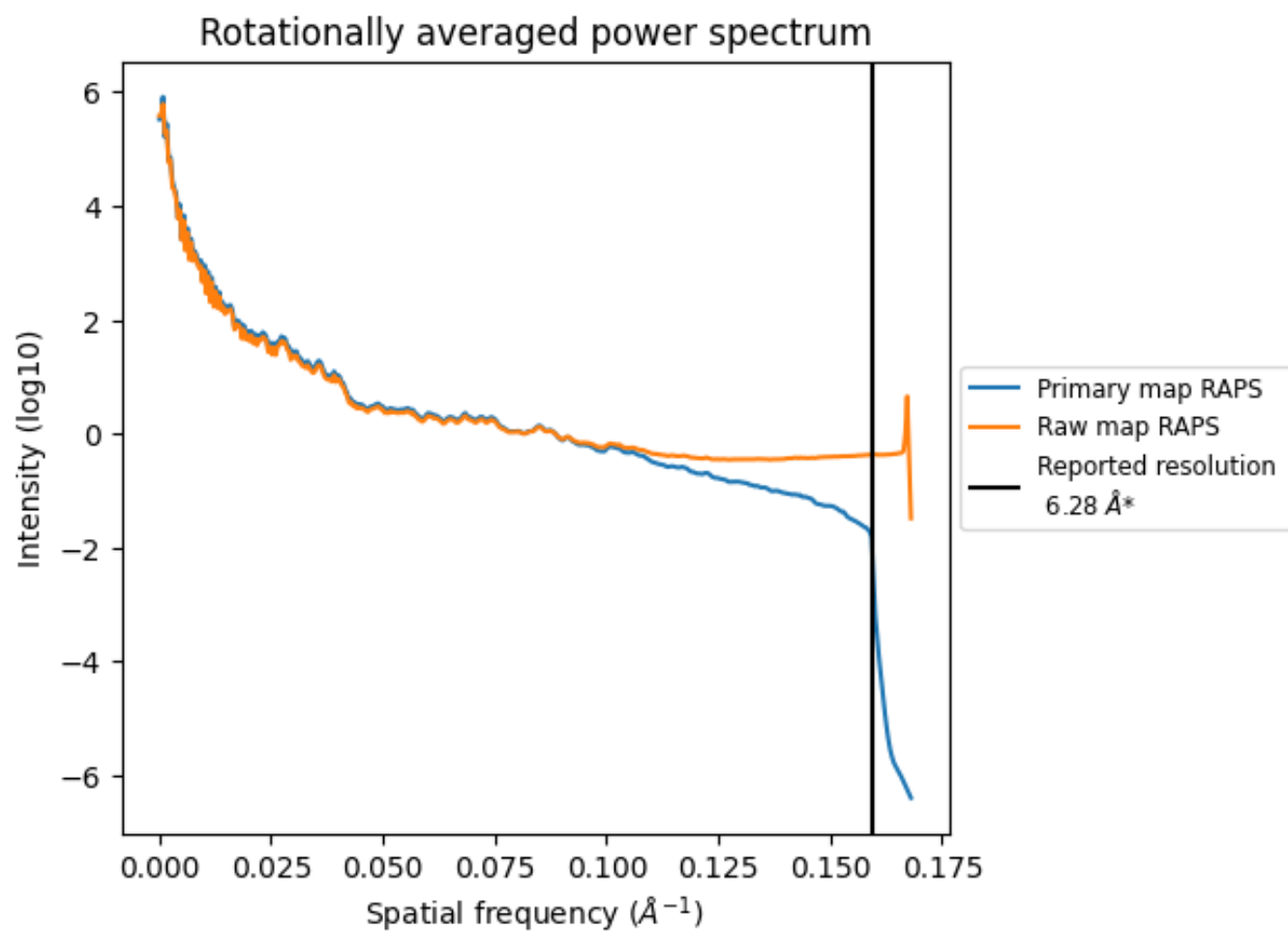
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 197779 nm³; this corresponds to an approximate mass of 178659 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

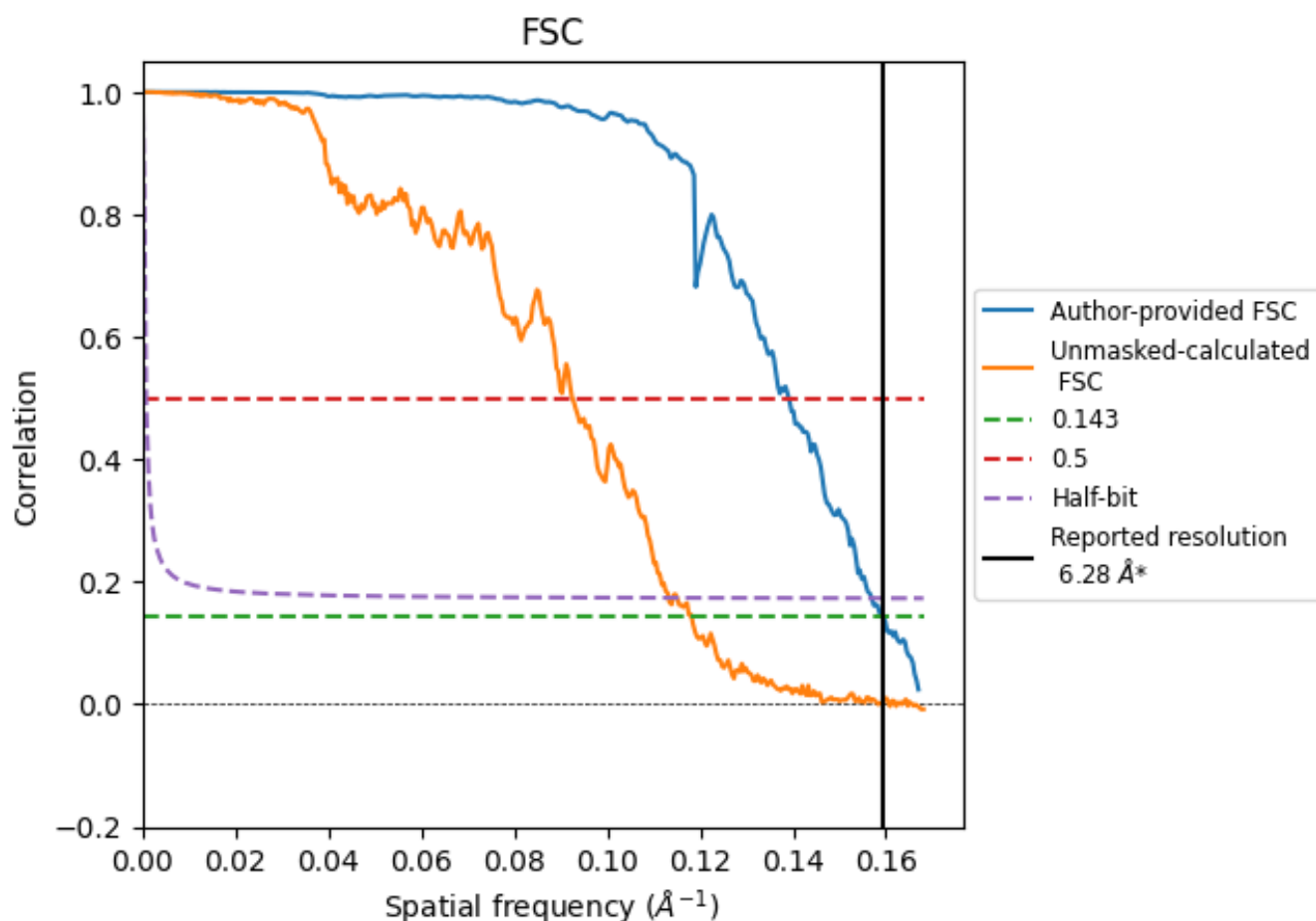


*Reported resolution corresponds to spatial frequency of 0.159 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.159 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

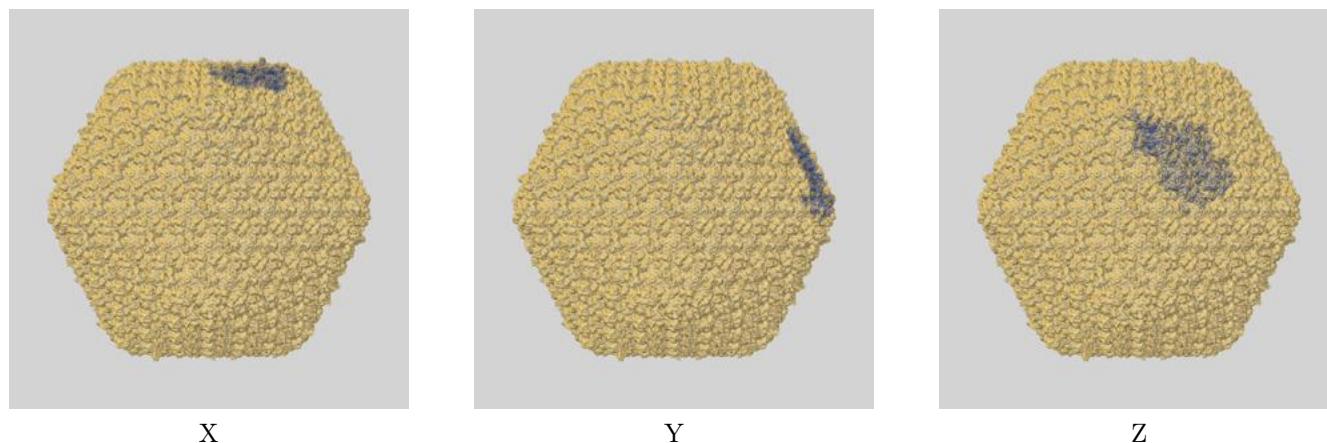
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	6.28	-	-
Author-provided FSC curve	6.28	7.19	6.37
Unmasked-calculated*	8.47	10.81	8.83

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 8.47 differs from the reported value 6.28 by more than 10 %

9 Map-model fit [i](#)

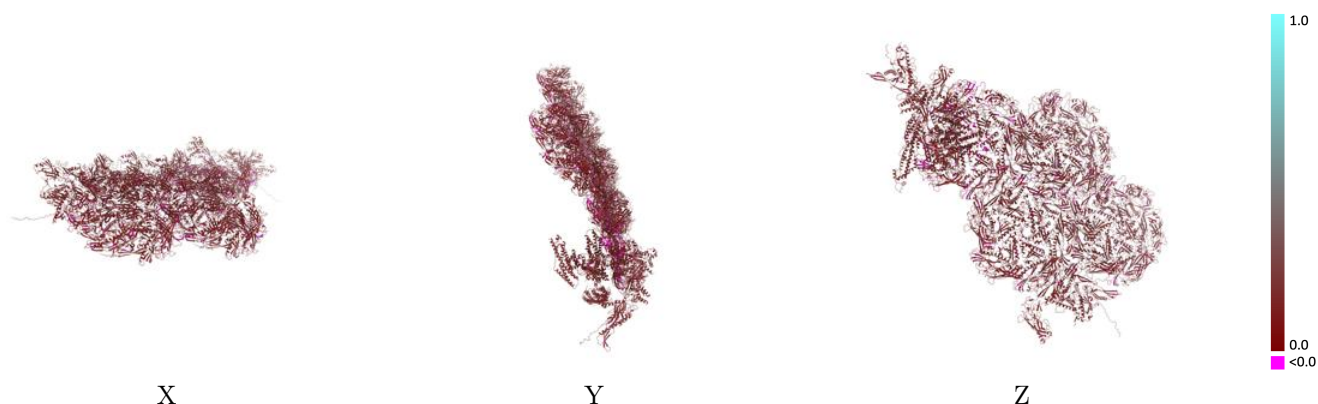
This section contains information regarding the fit between EMDB map EMD-75836 and PDB model 11MK. Per-residue inclusion information can be found in section [3](#) on page [8](#).

9.1 Map-model overlay [i](#)



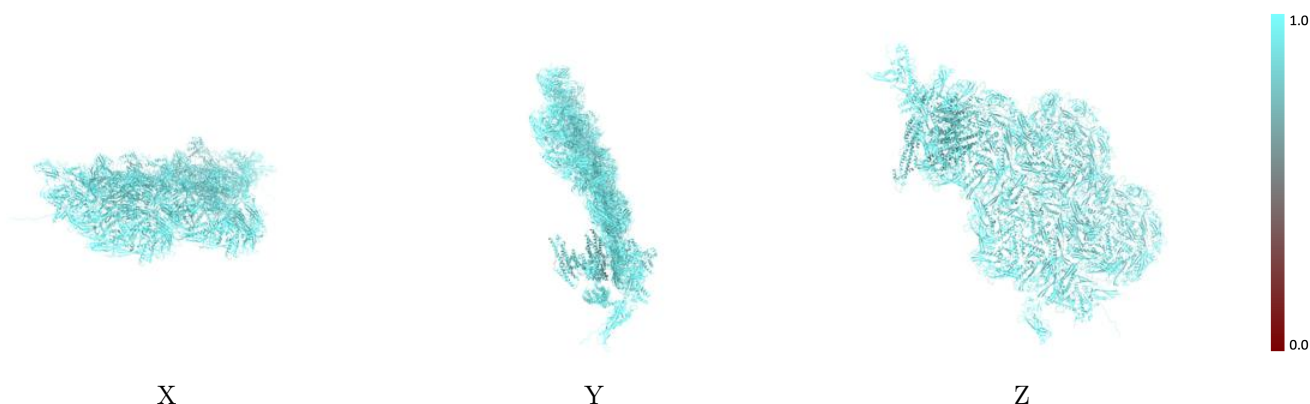
The images above show the 3D surface view of the map at the recommended contour level 0.3 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



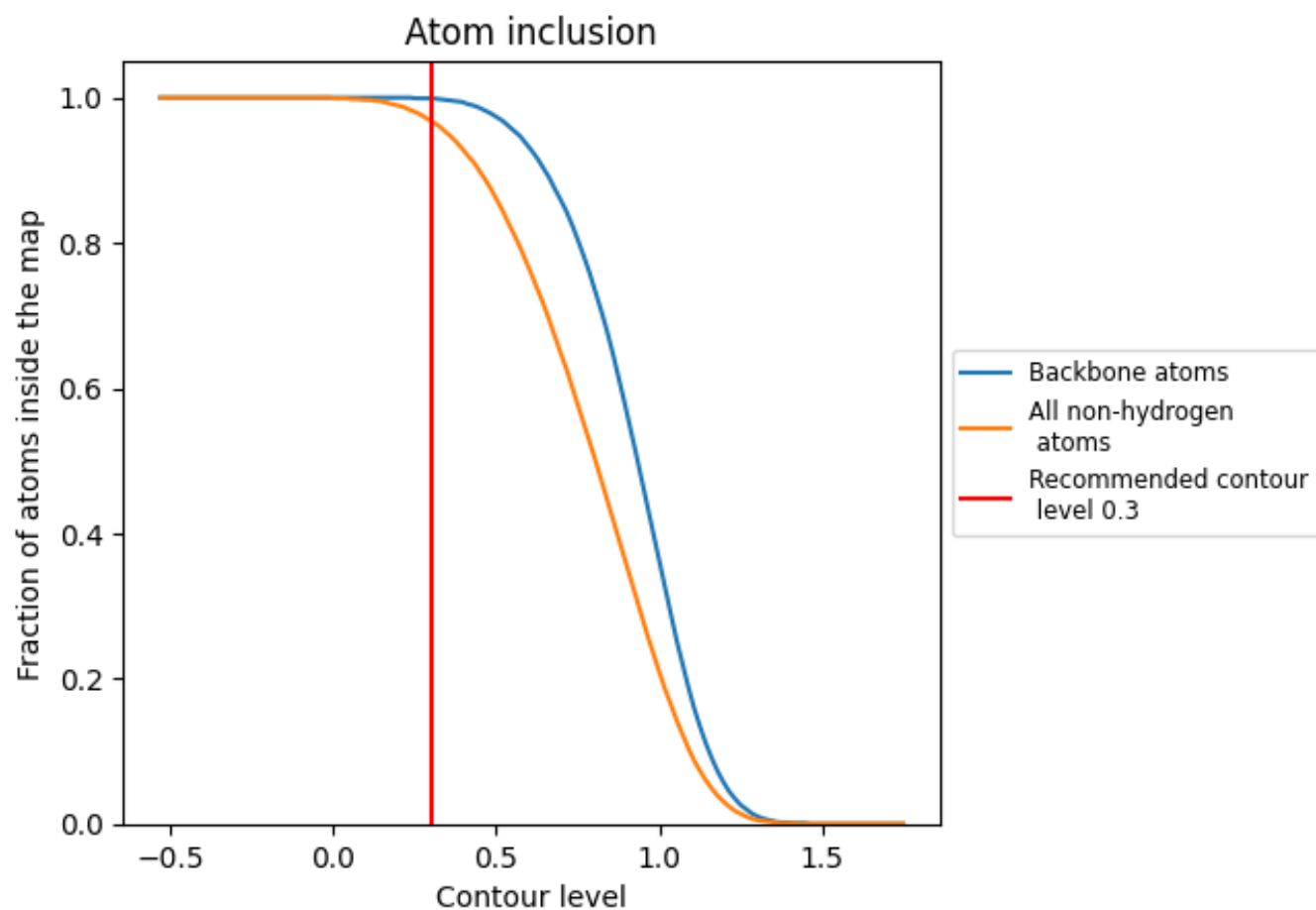
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.3).

9.4 Atom inclusion [i](#)



At the recommended contour level, 100% of all backbone atoms, 97% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.3) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9680	 0.1640
A0	 0.9760	 0.1660
A1	 0.9760	 0.1650
A2	 0.9800	 0.1580
A3	 0.9730	 0.1600
A4	 0.9750	 0.1650
A5	 0.9760	 0.1610
A6	 0.9770	 0.1680
A7	 0.9790	 0.1700
A8	 0.9780	 0.1640
A9	 0.9750	 0.1630
Ar	 0.9780	 0.1630
As	 0.9730	 0.1610
At	 0.9910	 0.1830
Au	 0.9790	 0.1620
Av	 0.9710	 0.1600
Aw	 0.9730	 0.1650
Ax	 0.9730	 0.1700
Ay	 0.9830	 0.1560
Az	 0.9770	 0.1560
B	 0.9850	 0.1840
BA	 0.9670	 0.1290
BB	 0.9790	 0.1650
BC	 0.9810	 0.1630
BD	 0.9800	 0.1550
BE	 0.9700	 0.1430
BF	 0.9770	 0.1580
BG	 0.9780	 0.1700
BH	 0.9770	 0.1690
Ck	 0.8590	 0.1820
G	 0.8600	 0.1840
O	 0.9250	 0.1740
P	 0.9280	 0.1930
Q	 0.9440	 0.1920
R	 0.9590	 0.1920
a	 0.8410	 0.1900

