



Full wwPDB X-ray Structure Validation Report ⓘ

Dec 8, 2016 – 06:46 PM EST

PDB ID : 1CX8
Title : CRYSTAL STRUCTURE OF THE ECTODOMAIN OF HUMAN TRANSFERRIN RECEPTOR
Authors : Lawrence, C.M.; Ray, S.; Babyonyshev, M.; Galluser, R.; Borhani, D.; Harrison, S.C.
Deposited on : 1999-08-28
Resolution : 3.20 Å(reported)

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

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

A user guide is available at

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7.1 (RC1), CSD as537be (2016)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20028442
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20028442

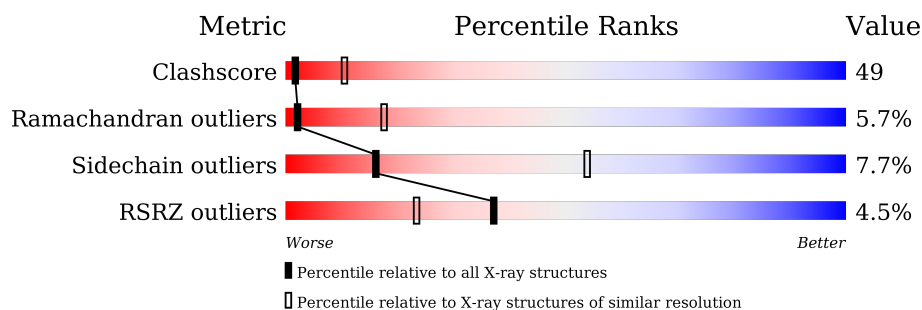
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.20 Å.

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




Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	102246	1024 (3.22-3.18)
Ramachandran outliers	100387	1004 (3.22-3.18)
Sidechain outliers	100360	1003 (3.22-3.18)
RSRZ outliers	91569	1129 (3.24-3.16)

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

Mol	Chain	Length	Quality of chain
1	A	639	<div> <div>6%</div> <div>40% 50% 9% .</div> </div>
1	B	639	<div> <div>5%</div> <div>39% 51% 9% .</div> </div>
1	C	639	<div> <div>2%</div> <div>38% 51% 9% .</div> </div>
1	D	639	<div> <div>3%</div> <div>40% 50% 9% .</div> </div>
1	E	639	<div> <div>4%</div> <div>38% 53% 8% .</div> </div>
1	F	639	<div> <div>4%</div> <div>38% 53% 9% .</div> </div>
1	G	639	<div> <div>6%</div> <div>39% 51% 9% .</div> </div>

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Mol	Chain	Length	Quality of chain	
				
1	H	639	6%	9% •

2 Entry composition

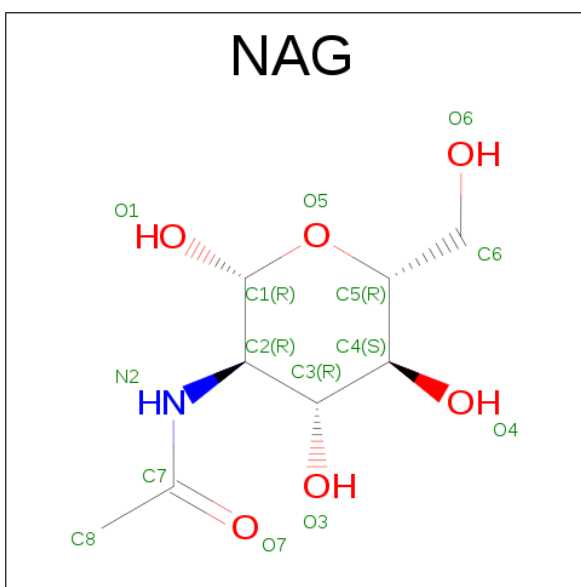
There are 3 unique types of molecules in this entry. The entry contains 40808 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called TRANSFERRIN RECEPTOR PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	639	Total	C	N	O	S	0	0	0
			5056	3244	846	952	14			
1	B	639	Total	C	N	O	S	0	0	0
			5056	3244	846	952	14			
1	C	639	Total	C	N	O	S	0	0	0
			5056	3244	846	952	14			
1	D	639	Total	C	N	O	S	0	0	0
			5056	3244	846	952	14			
1	E	639	Total	C	N	O	S	0	0	0
			5056	3244	846	952	14			
1	F	639	Total	C	N	O	S	0	0	0
			5056	3244	846	952	14			
1	G	639	Total	C	N	O	S	0	0	0
			5056	3244	846	952	14			
1	H	639	Total	C	N	O	S	0	0	0
			5056	3244	846	952	14			

- Molecule 2 is SUGAR (N-ACETYL-D-GLUCOSAMINE) (three-letter code: NAG) (formula: $C_8H_{15}NO_6$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			14	8	1	5		
2	A	1	Total	C	N	O	0	0
			14	8	1	5		
2	A	1	Total	C	N	O	0	0
			14	8	1	5		
2	B	1	Total	C	N	O	0	0
			14	8	1	5		
2	B	1	Total	C	N	O	0	0
			14	8	1	5		
2	B	1	Total	C	N	O	0	0
			14	8	1	5		
2	C	1	Total	C	N	O	0	0
			14	8	1	5		
2	C	1	Total	C	N	O	0	0
			14	8	1	5		
2	C	1	Total	C	N	O	0	0
			14	8	1	5		
2	D	1	Total	C	N	O	0	0
			14	8	1	5		
2	D	1	Total	C	N	O	0	0
			14	8	1	5		
2	D	1	Total	C	N	O	0	0
			14	8	1	5		
2	E	1	Total	C	N	O	0	0
			14	8	1	5		
2	E	1	Total	C	N	O	0	0
			14	8	1	5		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	E	1	Total	C	N	O	0	0
			14	8	1	5		
2	F	1	Total	C	N	O	0	0
			14	8	1	5		
2	F	1	Total	C	N	O	0	0
			14	8	1	5		
2	F	1	Total	C	N	O	0	0
			14	8	1	5		
2	G	1	Total	C	N	O	0	0
			14	8	1	5		
2	G	1	Total	C	N	O	0	0
			14	8	1	5		
2	G	1	Total	C	N	O	0	0
			14	8	1	5		
2	H	1	Total	C	N	O	0	0
			14	8	1	5		
2	H	1	Total	C	N	O	0	0
			14	8	1	5		
2	H	1	Total	C	N	O	0	0
			14	8	1	5		

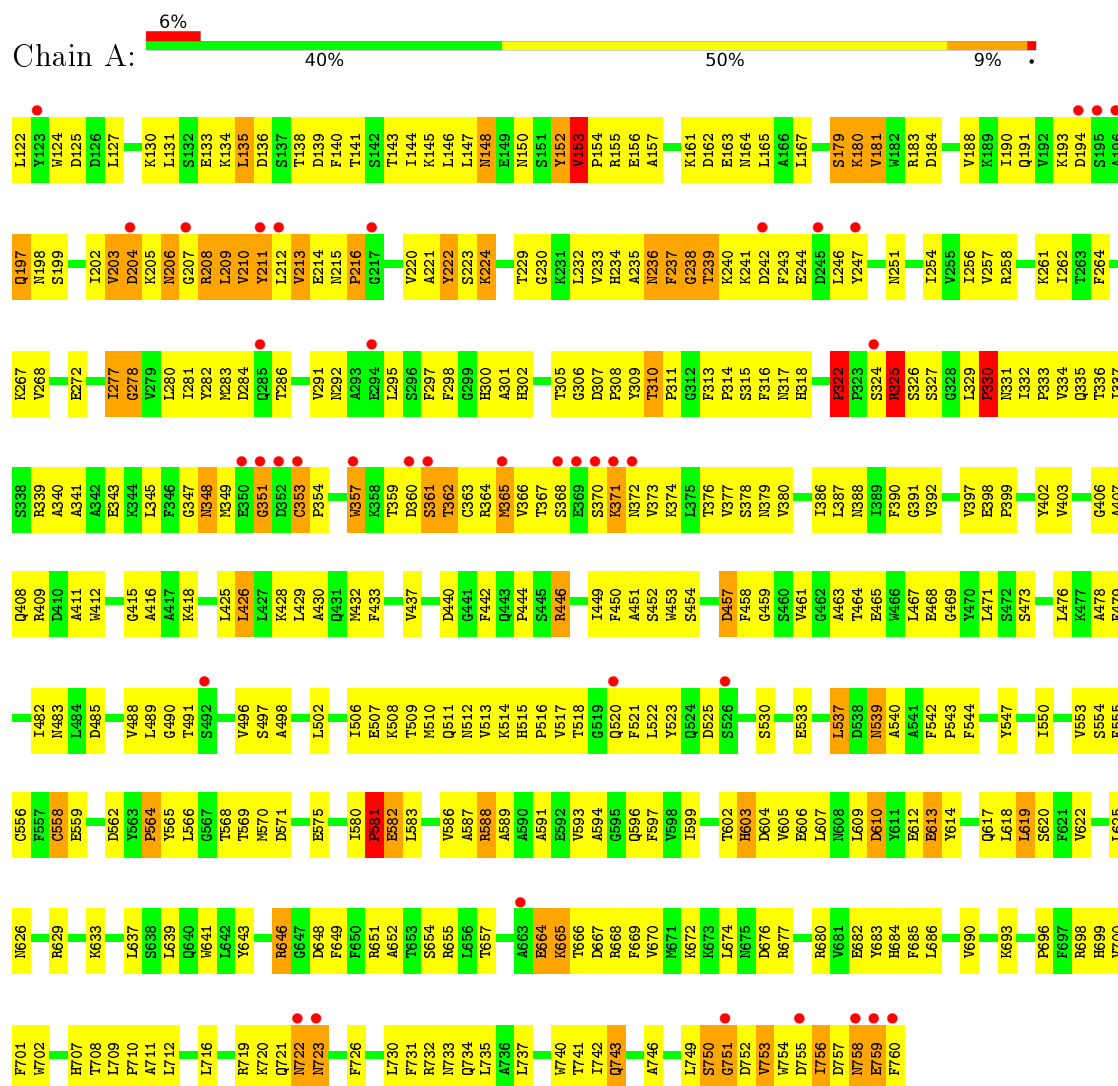
- Molecule 3 is SAMARIUM (III) ION (three-letter code: SM) (formula: Sm).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	G	3	Total	Sm	0	0
			3	3		
3	D	3	Total	Sm	0	0
			3	3		
3	E	3	Total	Sm	0	0
			3	3		
3	H	3	Total	Sm	0	0
			3	3		
3	B	3	Total	Sm	0	0
			3	3		
3	C	3	Total	Sm	0	0
			3	3		
3	A	3	Total	Sm	0	0
			3	3		
3	F	3	Total	Sm	0	0
			3	3		

3 Residue-property plots

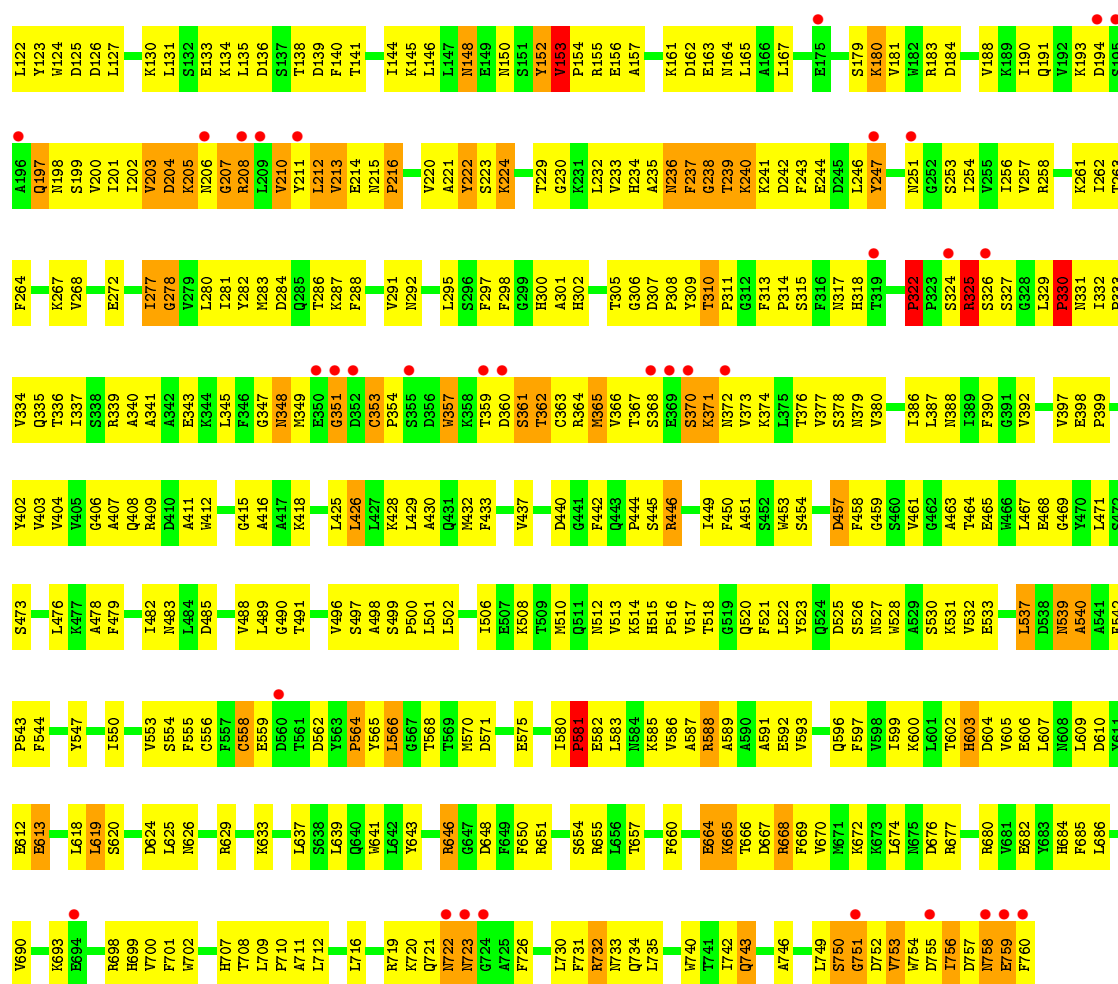
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according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

• Molecule 1: TRANSFERRIN RECEPTOR PROTEIN

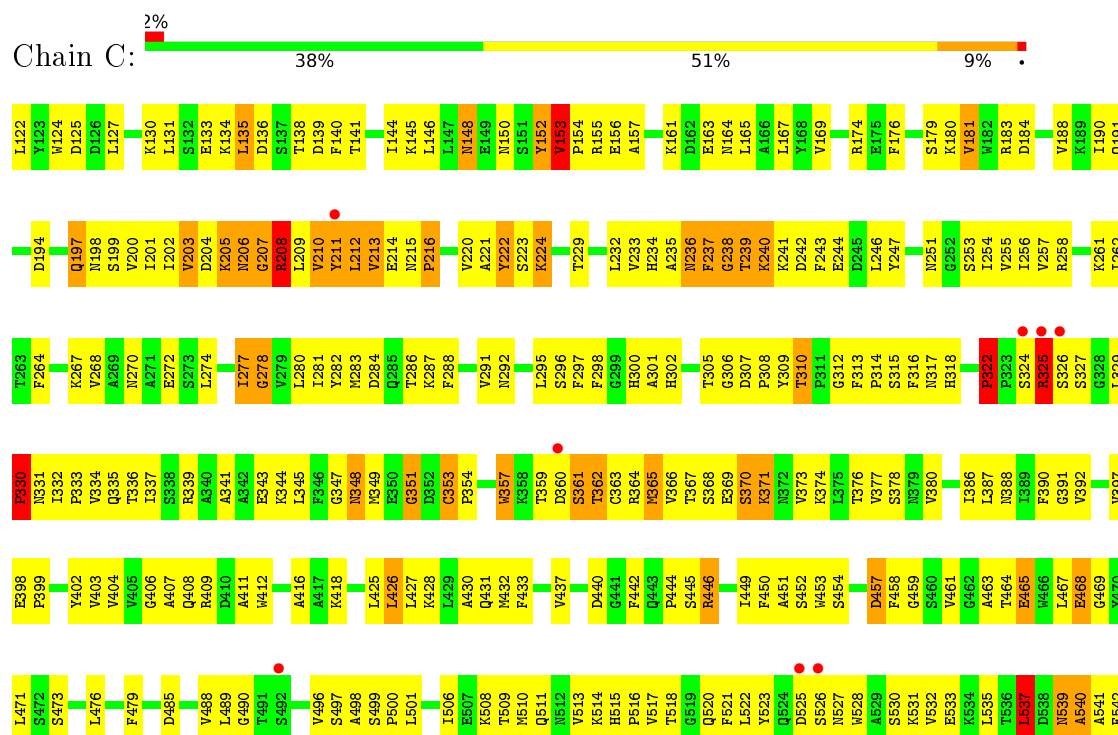


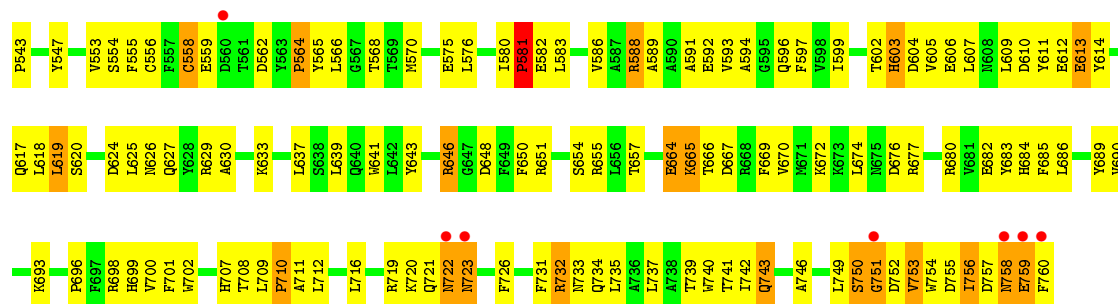
• Molecule 1: TRANSFERRIN RECEPTOR PROTEIN



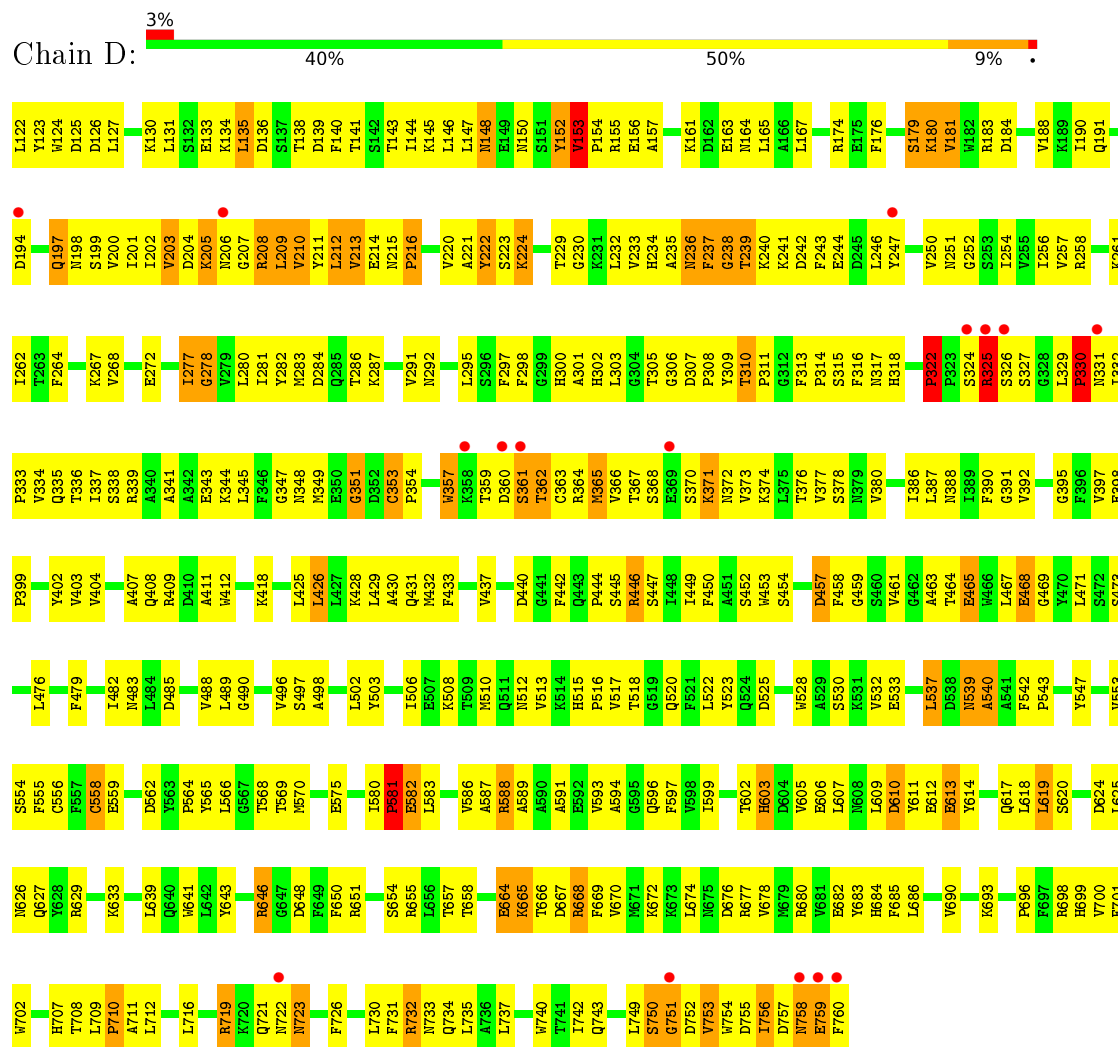


Molecule 1: TRANSFERRIN RECEPTOR PROTEIN

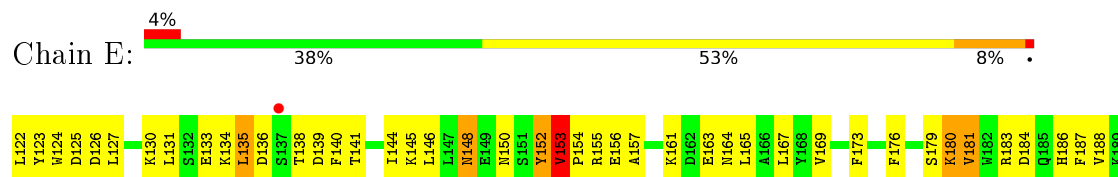


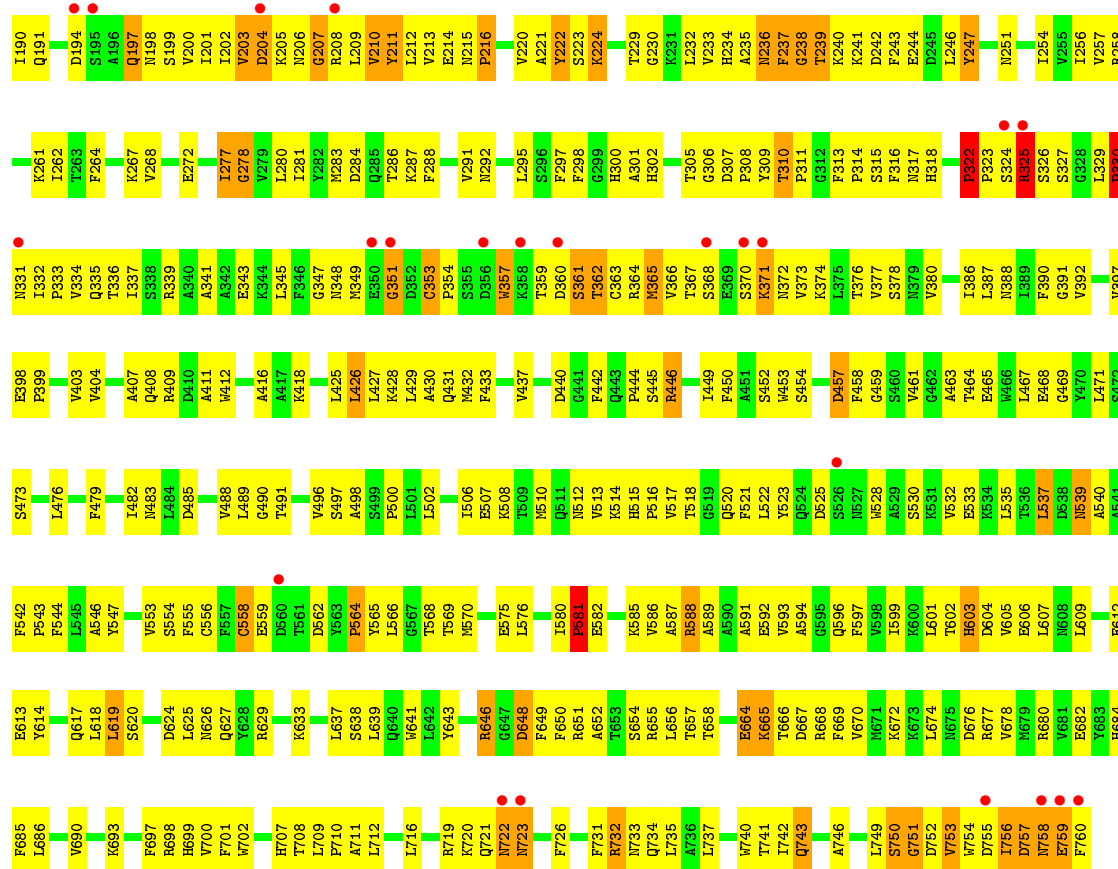


• Molecule 1: TRANSFERRIN RECEPTOR PROTEIN

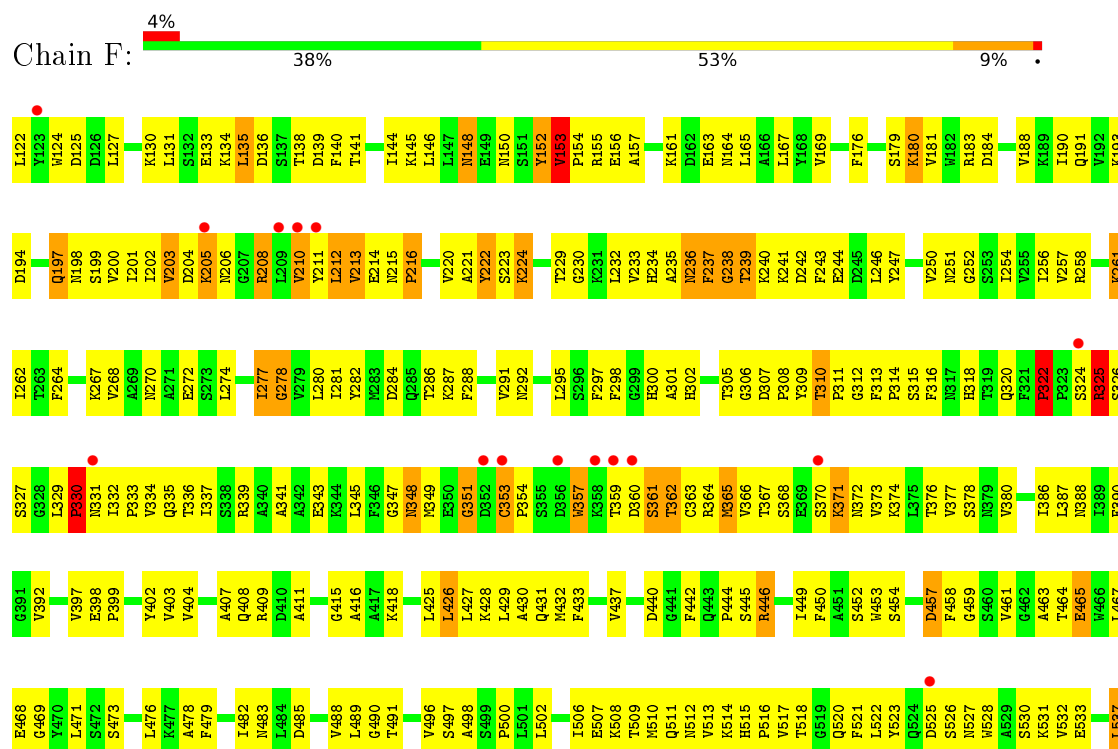


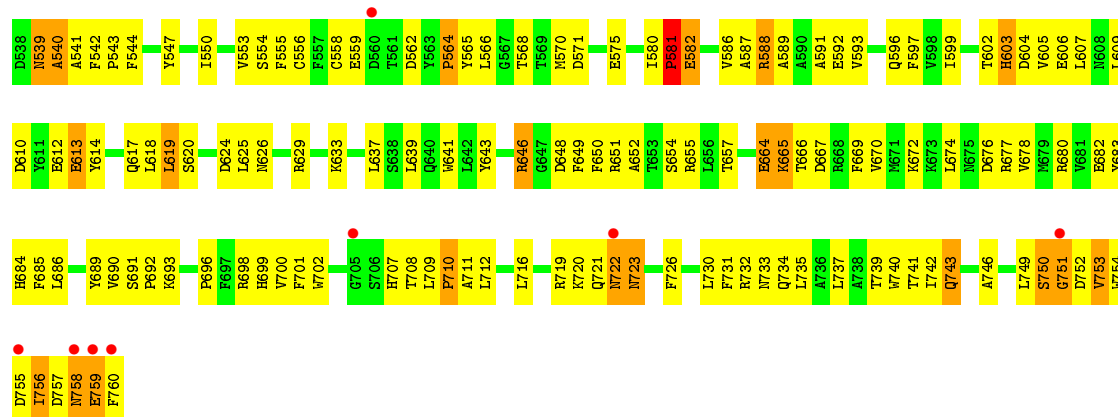
• Molecule 1: TRANSFERRIN RECEPTOR PROTEIN



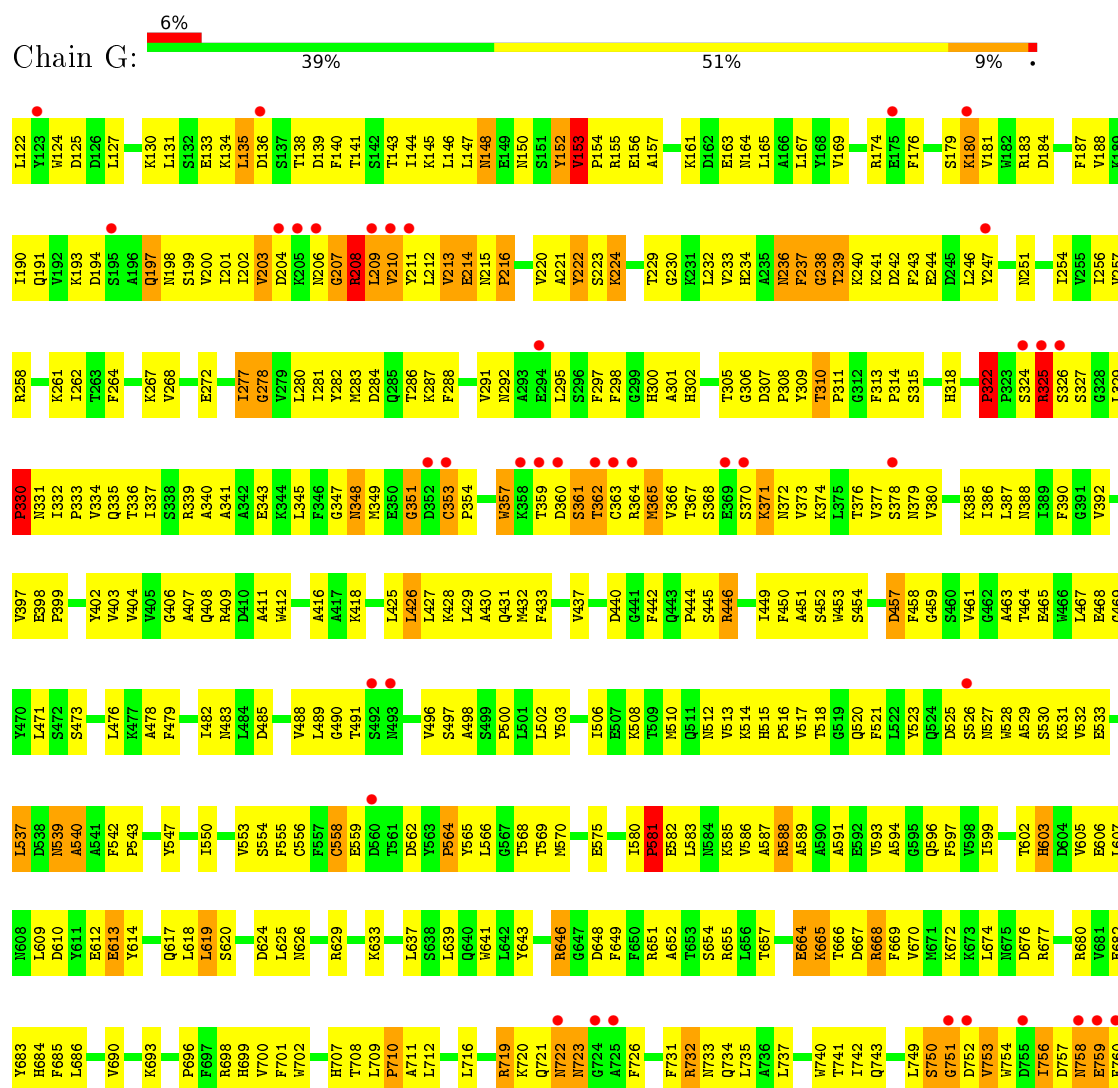


• Molecule 1: TRANSFERRIN RECEPTOR PROTEIN





• Molecule 1: TRANSFERRIN RECEPTOR PROTEIN



• Molecule 1: TRANSFERRIN RECEPTOR PROTEIN



P685	F611	A540	T464	N388	R258	Q191	L122
L686	E612	A541	E465	I389	K261	Y192	Y123
V690	E613	F542	E468	F390	K261	K193	W124
K693	Y614	P543	E469	V392	T263	D126	D125
R698	Q617	Y547	Y470	V397	P264	L127	L126
H699	L618	V553	L471	E396	N198	K130	K130
F700	S620	S554	S472	F399	S199	L131	L131
W701	F621	F555	S473	V333	V200	S132	S132
W702	V622	C556	L476	Y402	A269	I201	I201
H707	L625	F557	F479	V403	N270	E133	E133
T708	C558	T569	F479	V404	T272	N203	N203
L709	E559	D560	N483	A407	E272	D204	L135
P710	T561	D562	D485	Q408	S273	D136	D136
A711	Y563	P564	V488	R409	L274	S137	S137
L712	Y565	Y565	L489	A411	I277	D139	F140
L716	S638	G567	G490	D410	G278	F140	F140
R719	L639	T569	T491	A412	V279	T141	T141
K720	Q640	T568	S492	Q415	L280	S142	S142
Q721	W641	D570	V496	A416	I281	I144	I144
N722	I642	D671	S497	A417	M283	K145	K145
N723	Y643	D671	A498	K418	D284	L146	L146
F726	R646	K574	L502	L425	T286	L147	L147
L730	G647	E575	L426	L426	K287	N148	N148
F731	D648	E575	L427	L427	F288	E149	E149
R733	F649	P580	Y503	K428	A221	N150	N150
Q734	F650	P581	I506	L429	Y222	Y152	Y152
L735	R651	E582	E507	Q431	S223	V153	V153
L736	A652	L583	K508	N432	K224	P154	P154
L737	T653	N584	T509	F433	T229	E156	E156
L738	S654	K585	M510	Y437	G230	R155	R155
L739	R655	V586	Q511	D440	K231	L232	L232
L740	L656	A587	M512	Y441	V233	E163	E163
L741	T657	R588	V513	D442	H234	N164	N164
L742	E664	A589	H514	F442	N236	L165	L165
Q743	K665	A590	H515	Q443	T237	A166	A166
A746	T666	E591	P516	P444	G238	L167	L167
L749	D667	V592	T517	S445	T239	Y168	Y168
S750	R668	A594	G519	R446	K240	V169	V169
G751	F669	G595	Q520	Q520	K241	E175	E175
D752	V670	Q596	F521	L449	D242	F176	F176
V753	R671	F597	L522	F450	F243	S179	S179
W754	K672	V598	Y523	A451	E244	K180	K180
D755	L673	I599	Q524	S452	D245	V181	V181
I756	L674	T602	D525	W453	L246	Y182	Y182
D757	R675	H603	S530	S454	Y247	D184	D184
I758	D676	D604	R531	D457	N251	F187	F187
E759	R677	V605	V532	F458	G252	V188	V188
F760	R680	L607	E533	Q459	I254	I256	I256
	W681	M608	L537	S460	V257		
	E682	L609	D538	V461			
	Y683	H684	N539	A463			

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	105.40 Å 216.90 Å 361.90 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	8.00 – 3.20 14.94 – 3.20	Depositor EDS
% Data completeness (in resolution range)	79.2 (8.00-3.20) 80.1 (14.94-3.20)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.83 (at 3.19 Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.243 , 0.284 (Not available) , (Not available)	Depositor DCC
R_{free} test set	NotAvailable	DCC
Wilson B-factor (Å ²)	91.6	Xtriage
Anisotropy	0.149	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 53.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	40808	wwPDB-VP
Average B, all atoms (Å ²)	69.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.34% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: NAG, SM

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.38	0/5177	0.61	1/7021 (0.0%)
1	B	0.37	0/5177	0.61	1/7021 (0.0%)
1	C	0.40	0/5177	0.64	3/7021 (0.0%)
1	D	0.40	0/5177	0.64	4/7021 (0.1%)
1	E	0.38	0/5177	0.62	1/7021 (0.0%)
1	F	0.38	0/5177	0.63	2/7021 (0.0%)
1	G	0.37	0/5177	0.61	1/7021 (0.0%)
1	H	0.38	0/5177	0.61	1/7021 (0.0%)
All	All	0.38	0/41416	0.62	14/56168 (0.0%)

There are no bond length outliers.

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	468	GLU	OE1-CD-OE2	-6.58	115.40	123.30
1	C	468	GLU	OE1-CD-OE2	-6.33	115.71	123.30
1	D	212	LEU	N-CA-C	-6.05	94.65	111.00
1	D	465	GLU	OE1-CD-OE2	-5.78	116.36	123.30
1	C	465	GLU	OE1-CD-OE2	-5.61	116.57	123.30
1	F	465	GLU	OE1-CD-OE2	-5.42	116.79	123.30
1	G	751	GLY	N-CA-C	-5.27	99.93	113.10
1	B	751	GLY	N-CA-C	-5.22	100.04	113.10
1	E	751	GLY	N-CA-C	-5.14	100.25	113.10
1	A	751	GLY	N-CA-C	-5.11	100.32	113.10
1	H	751	GLY	N-CA-C	-5.11	100.33	113.10
1	C	751	GLY	N-CA-C	-5.07	100.42	113.10
1	D	751	GLY	N-CA-C	-5.06	100.46	113.10
1	F	751	GLY	N-CA-C	-5.00	100.60	113.10

There are no chirality outliers.

There are no planarity outliers.

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	A	5056	0	4978	501	0
1	B	5056	0	4978	502	0
1	C	5056	0	4978	519	0
1	D	5056	0	4978	512	0
1	E	5056	0	4978	516	0
1	F	5056	0	4978	510	0
1	G	5056	0	4977	536	0
1	H	5056	0	4978	507	0
2	A	42	0	39	3	0
2	B	42	0	39	3	0
2	C	42	0	39	2	0
2	D	42	0	39	2	0
2	E	42	0	39	1	0
2	F	42	0	39	1	0
2	G	42	0	39	2	0
2	H	42	0	39	1	0
3	A	3	0	0	0	0
3	B	3	0	0	0	0
3	C	3	0	0	0	0
3	D	3	0	0	0	0
3	E	3	0	0	0	0
3	F	3	0	0	0	0
3	G	3	0	0	0	0
3	H	3	0	0	0	0
All	All	40808	0	40135	3954	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 49.

All (3954) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:201:ILE:HD13	1:F:212:LEU:HA	1.21	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:153:VAL:HG13	1:G:154:PRO:HD3	1.22	1.16
1:F:153:VAL:HG13	1:F:154:PRO:HD3	1.17	1.14
1:E:203:VAL:HA	1:E:209:LEU:HB3	1.23	1.13
1:D:153:VAL:HG13	1:D:154:PRO:HD3	1.17	1.11
1:A:153:VAL:HG13	1:A:154:PRO:HD3	1.20	1.11
1:B:153:VAL:HG13	1:B:154:PRO:HD3	1.21	1.11
1:C:153:VAL:HG13	1:C:154:PRO:HD3	1.20	1.10
1:E:153:VAL:HG13	1:E:154:PRO:HD3	1.17	1.10
1:H:153:VAL:HG13	1:H:154:PRO:HD3	1.17	1.07
1:F:210:VAL:HG13	1:F:211:TYR:H	1.20	1.06
1:D:201:ILE:HD13	1:D:212:LEU:HA	1.39	1.03
1:H:210:VAL:HG22	1:H:211:TYR:H	1.17	1.03
1:C:359:THR:HG22	1:C:360:ASP:H	1.20	1.03
1:C:306:GLY:HA2	1:C:461:VAL:HA	1.41	1.02
1:G:208:ARG:HG2	1:G:209:LEU:H	1.21	1.02
1:B:210:VAL:HG13	1:B:211:TYR:H	1.22	1.02
1:E:359:THR:HG22	1:E:360:ASP:H	1.26	1.01
1:B:359:THR:HG22	1:B:360:ASP:H	1.22	1.00
1:F:348:ASN:HB3	1:F:371:LYS:HE3	1.43	1.00
1:G:359:THR:HG22	1:G:360:ASP:H	1.26	1.00
1:E:201:ILE:HD13	1:E:212:LEU:HA	1.44	0.99
1:A:359:THR:HG22	1:A:360:ASP:H	1.25	0.99
1:F:359:THR:HG22	1:F:360:ASP:H	1.26	0.98
1:B:348:ASN:HB3	1:B:371:LYS:HE3	1.47	0.96
1:D:359:THR:HG22	1:D:360:ASP:H	1.26	0.96
1:G:348:ASN:HB3	1:G:371:LYS:HE3	1.47	0.96
1:H:359:THR:HG22	1:H:360:ASP:H	1.27	0.96
1:C:354:PRO:HD3	1:C:365:MET:SD	2.05	0.95
1:G:200:VAL:O	1:G:213:VAL:HB	1.67	0.95
1:B:184:ASP:HB3	1:B:388:ASN:HB2	1.46	0.95
1:D:348:ASN:HB3	1:D:371:LYS:HE3	1.49	0.94
1:H:348:ASN:HB3	1:H:371:LYS:HE3	1.49	0.94
1:E:348:ASN:HB3	1:E:371:LYS:HE3	1.49	0.94
1:B:306:GLY:HA2	1:B:461:VAL:HA	1.50	0.94
1:G:184:ASP:HB3	1:G:388:ASN:HB2	1.49	0.94
1:E:708:THR:HG22	1:E:711:ALA:H	1.32	0.94
1:A:203:VAL:HB	1:A:208:ARG:HA	1.49	0.93
1:D:708:THR:HG22	1:D:711:ALA:H	1.30	0.93
1:H:708:THR:HG22	1:H:711:ALA:H	1.33	0.93
1:D:354:PRO:HD3	1:D:365:MET:SD	2.08	0.93
1:H:184:ASP:HB3	1:H:388:ASN:HB2	1.49	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:708:THR:HG22	1:C:711:ALA:H	1.30	0.93
1:H:306:GLY:HA2	1:H:461:VAL:HA	1.51	0.93
1:F:130:LYS:HE3	1:F:134:LYS:HD3	1.50	0.93
1:G:708:THR:HG22	1:G:711:ALA:H	1.30	0.93
1:E:130:LYS:HE3	1:E:134:LYS:HD3	1.49	0.92
1:B:708:THR:HG22	1:B:711:ALA:H	1.31	0.92
1:F:184:ASP:HB3	1:F:388:ASN:HB2	1.49	0.92
1:A:348:ASN:HB3	1:A:371:LYS:HE3	1.49	0.92
1:F:708:THR:HG22	1:F:711:ALA:H	1.35	0.92
1:A:354:PRO:HD3	1:A:365:MET:SD	2.09	0.91
1:D:184:ASP:HB3	1:D:388:ASN:HB2	1.50	0.91
1:H:426:LEU:HD21	1:H:450:PHE:HB3	1.52	0.91
1:C:348:ASN:HB3	1:C:371:LYS:HE3	1.53	0.91
1:E:354:PRO:HD3	1:E:365:MET:SD	2.09	0.91
1:C:239:THR:HB	1:C:244:GLU:HG2	1.52	0.91
1:F:153:VAL:HG13	1:F:154:PRO:CD	2.01	0.91
1:H:667:ASP:HB3	1:H:670:VAL:HG22	1.53	0.91
1:C:211:TYR:CD1	1:C:344:LYS:HE3	2.06	0.91
1:H:300:HIS:HE1	1:H:302:HIS:HB3	1.35	0.90
1:E:426:LEU:HD21	1:E:450:PHE:HB3	1.53	0.90
1:A:130:LYS:HE3	1:A:134:LYS:HD3	1.50	0.90
1:C:184:ASP:HB3	1:C:388:ASN:HB2	1.52	0.90
1:D:153:VAL:HG13	1:D:154:PRO:CD	2.00	0.90
1:H:130:LYS:HE3	1:H:134:LYS:HD3	1.50	0.90
1:B:349:MET:HB2	1:B:364:ARG:HG3	1.54	0.90
1:D:153:VAL:CG1	1:D:154:PRO:HD3	2.02	0.90
1:G:130:LYS:HE3	1:G:134:LYS:HD3	1.52	0.90
1:A:140:PHE:HE1	1:A:588:ARG:HA	1.36	0.90
1:A:209:LEU:HG	1:A:210:VAL:H	1.35	0.90
1:F:426:LEU:HD21	1:F:450:PHE:HB3	1.54	0.90
1:H:200:VAL:O	1:H:213:VAL:HB	1.71	0.89
1:F:306:GLY:HA2	1:F:461:VAL:HA	1.53	0.89
1:H:153:VAL:HG13	1:H:154:PRO:CD	2.03	0.89
1:E:300:HIS:HE1	1:E:302:HIS:HB3	1.36	0.89
1:B:130:LYS:HE3	1:B:134:LYS:HD3	1.54	0.89
1:C:667:ASP:HB3	1:C:670:VAL:HG22	1.55	0.89
1:F:153:VAL:CG1	1:F:154:PRO:HD3	2.01	0.89
1:A:349:MET:HB2	1:A:364:ARG:HG3	1.54	0.89
1:A:184:ASP:HB3	1:A:388:ASN:HB2	1.52	0.89
1:E:667:ASP:HB3	1:E:670:VAL:HG22	1.55	0.89
1:A:161:LYS:HA	1:A:164:ASN:HD22	1.37	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:153:VAL:CG1	1:E:154:PRO:HD3	2.03	0.88
1:H:349:MET:HB2	1:H:364:ARG:HG3	1.55	0.88
1:D:239:THR:HB	1:D:244:GLU:HG2	1.54	0.88
1:G:161:LYS:HA	1:G:164:ASN:HD22	1.39	0.88
1:B:161:LYS:HA	1:B:164:ASN:HD22	1.39	0.88
1:E:140:PHE:HE1	1:E:588:ARG:HA	1.38	0.88
1:D:140:PHE:HE1	1:D:588:ARG:HA	1.36	0.88
1:B:354:PRO:HD3	1:B:365:MET:SD	2.14	0.87
1:C:130:LYS:HE3	1:C:134:LYS:HD3	1.54	0.87
1:C:300:HIS:HE1	1:C:302:HIS:HB3	1.39	0.87
1:A:153:VAL:HG13	1:A:154:PRO:CD	2.04	0.87
1:D:667:ASP:HB3	1:D:670:VAL:HG22	1.56	0.87
1:H:153:VAL:CG1	1:H:154:PRO:HD3	2.03	0.87
1:H:239:THR:HB	1:H:244:GLU:HG2	1.56	0.87
1:E:153:VAL:HG13	1:E:154:PRO:CD	2.04	0.87
1:A:153:VAL:CG1	1:A:154:PRO:HD3	2.03	0.87
1:B:153:VAL:CG1	1:B:154:PRO:HD3	2.05	0.87
1:B:444:PRO:HB3	1:B:602:THR:HG21	1.56	0.87
1:D:208:ARG:H	1:D:208:ARG:HD2	1.40	0.87
1:E:184:ASP:HB3	1:E:388:ASN:HB2	1.55	0.87
1:G:667:ASP:HB3	1:G:670:VAL:HG22	1.56	0.87
1:A:353:CYS:HA	1:A:365:MET:SD	2.15	0.87
1:B:300:HIS:HE1	1:B:302:HIS:HB3	1.39	0.87
1:B:667:ASP:HB3	1:B:670:VAL:HG22	1.57	0.87
1:C:444:PRO:HB3	1:C:602:THR:HG21	1.54	0.87
1:E:161:LYS:HA	1:E:164:ASN:HD22	1.38	0.87
1:G:426:LEU:HD21	1:G:450:PHE:HB3	1.57	0.87
1:A:708:THR:HG22	1:A:711:ALA:H	1.39	0.87
1:C:140:PHE:HE1	1:C:588:ARG:HA	1.37	0.87
1:H:444:PRO:HB3	1:H:602:THR:HG21	1.56	0.86
1:D:442:PHE:CZ	1:D:444:PRO:HG3	2.11	0.86
1:F:646:ARG:HH11	1:F:646:ARG:HG2	1.40	0.86
1:H:685:PHE:O	1:H:700:VAL:HG22	1.74	0.86
1:G:354:PRO:HD3	1:G:365:MET:SD	2.15	0.86
1:C:153:VAL:HG13	1:C:154:PRO:CD	2.06	0.86
1:H:300:HIS:CE1	1:H:302:HIS:HB3	2.10	0.86
1:H:354:PRO:HD3	1:H:365:MET:SD	2.15	0.86
1:G:153:VAL:CG1	1:G:154:PRO:HD3	2.05	0.86
1:A:239:THR:HB	1:A:244:GLU:HG2	1.55	0.86
1:C:426:LEU:HD21	1:C:450:PHE:HB3	1.57	0.86
1:F:239:THR:HB	1:F:244:GLU:HG2	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:354:PRO:HD3	1:F:365:MET:SD	2.15	0.86
1:G:239:THR:HB	1:G:244:GLU:HG2	1.57	0.86
1:C:153:VAL:CG1	1:C:154:PRO:HD3	2.06	0.85
1:F:140:PHE:HE1	1:F:588:ARG:HA	1.37	0.85
1:B:353:CYS:HA	1:B:365:MET:SD	2.16	0.85
1:E:646:ARG:HH11	1:E:646:ARG:HG2	1.42	0.85
1:E:349:MET:HB2	1:E:364:ARG:HG3	1.57	0.85
1:H:140:PHE:HE1	1:H:588:ARG:HA	1.40	0.85
1:B:426:LEU:HD21	1:B:450:PHE:HB3	1.59	0.85
1:A:300:HIS:HE1	1:A:302:HIS:HB3	1.42	0.85
1:B:140:PHE:HE1	1:B:588:ARG:HA	1.38	0.85
1:G:349:MET:HB2	1:G:364:ARG:HG3	1.58	0.85
1:B:239:THR:HB	1:B:244:GLU:HG2	1.57	0.85
1:B:646:ARG:HG2	1:B:646:ARG:HH11	1.42	0.85
1:F:667:ASP:HB3	1:F:670:VAL:HG22	1.58	0.85
1:C:646:ARG:HH11	1:C:646:ARG:HG2	1.42	0.85
1:G:300:HIS:HE1	1:G:302:HIS:HB3	1.41	0.85
1:A:426:LEU:HD21	1:A:450:PHE:HB3	1.59	0.84
1:B:153:VAL:HG13	1:B:154:PRO:CD	2.07	0.84
1:G:306:GLY:HA2	1:G:461:VAL:HA	1.58	0.84
1:A:667:ASP:HB3	1:A:670:VAL:HG22	1.57	0.84
1:E:300:HIS:CE1	1:E:302:HIS:HB3	2.11	0.84
1:B:708:THR:HG23	1:B:710:PRO:HD2	1.59	0.84
1:G:280:LEU:HD12	1:G:337:ILE:HD13	1.59	0.84
1:D:646:ARG:HH11	1:D:646:ARG:HG2	1.41	0.84
1:E:444:PRO:HB3	1:E:602:THR:HG21	1.57	0.84
1:G:353:CYS:HA	1:G:365:MET:SD	2.17	0.84
1:H:353:CYS:HA	1:H:365:MET:SD	2.16	0.84
1:H:161:LYS:HA	1:H:164:ASN:HD22	1.42	0.84
1:A:708:THR:HG23	1:A:710:PRO:HD2	1.59	0.84
1:D:161:LYS:HA	1:D:164:ASN:HD22	1.41	0.84
1:E:353:CYS:HA	1:E:365:MET:SD	2.18	0.84
1:C:349:MET:HB2	1:C:364:ARG:HG3	1.60	0.84
1:B:201:ILE:HD11	1:B:208:ARG:HB2	1.57	0.84
1:D:306:GLY:HA2	1:D:461:VAL:HA	1.57	0.84
1:D:188:VAL:CG2	1:D:386:ILE:HD11	2.08	0.83
1:A:306:GLY:HA2	1:A:461:VAL:HA	1.59	0.83
1:D:708:THR:HG23	1:D:710:PRO:HD2	1.61	0.83
1:E:306:GLY:HA2	1:E:461:VAL:HA	1.58	0.83
1:A:442:PHE:CZ	1:A:444:PRO:HG3	2.13	0.83
1:C:442:PHE:CZ	1:C:444:PRO:HG3	2.13	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:444:PRO:HB3	1:D:602:THR:HG21	1.57	0.83
1:F:349:MET:HB2	1:F:364:ARG:HG3	1.59	0.83
1:F:444:PRO:HB3	1:F:602:THR:HG21	1.59	0.83
1:E:239:THR:HB	1:E:244:GLU:HG2	1.58	0.83
1:G:442:PHE:CZ	1:G:444:PRO:HG3	2.14	0.83
1:G:153:VAL:HG13	1:G:154:PRO:CD	2.06	0.83
1:D:426:LEU:HD21	1:D:450:PHE:HB3	1.60	0.83
1:E:210:VAL:HG22	1:E:211:TYR:H	1.43	0.82
1:B:300:HIS:CE1	1:B:302:HIS:HB3	2.14	0.82
1:B:442:PHE:CZ	1:B:444:PRO:HG3	2.14	0.82
1:D:349:MET:HB2	1:D:364:ARG:HG3	1.59	0.82
1:F:211:TYR:HD2	1:F:212:LEU:H	1.26	0.82
1:B:280:LEU:HD12	1:B:337:ILE:HD13	1.61	0.82
1:H:309:TYR:HE2	1:H:325:ARG:HA	1.45	0.82
1:C:305:THR:HG23	1:C:464:THR:HG21	1.60	0.82
1:F:520:GLN:HE22	1:G:240:LYS:NZ	1.78	0.82
1:C:161:LYS:HA	1:C:164:ASN:HD22	1.45	0.82
1:A:300:HIS:CE1	1:A:302:HIS:HB3	2.15	0.82
1:F:161:LYS:HA	1:F:164:ASN:HD22	1.45	0.82
1:G:140:PHE:HE1	1:G:588:ARG:HA	1.42	0.82
1:H:203:VAL:HG23	1:H:206:ASN:O	1.79	0.81
1:C:208:ARG:O	1:C:209:LEU:HD12	1.80	0.81
1:F:442:PHE:CZ	1:F:444:PRO:HG3	2.16	0.81
1:H:442:PHE:CZ	1:H:444:PRO:HG3	2.15	0.81
1:D:130:LYS:HE3	1:D:134:LYS:HD3	1.59	0.81
1:G:300:HIS:CE1	1:G:302:HIS:HB3	2.15	0.81
1:G:444:PRO:HB3	1:G:602:THR:HG21	1.62	0.81
1:E:442:PHE:CZ	1:E:444:PRO:HG3	2.15	0.81
1:A:758:ASN:HB2	1:B:183:ARG:O	1.79	0.81
1:F:300:HIS:HE1	1:F:302:HIS:HB3	1.44	0.81
1:G:208:ARG:H	1:G:208:ARG:HD3	1.45	0.81
1:E:309:TYR:HE2	1:E:325:ARG:HA	1.45	0.81
1:C:300:HIS:CE1	1:C:302:HIS:HB3	2.15	0.81
1:C:353:CYS:HA	1:C:365:MET:SD	2.21	0.81
1:G:646:ARG:HG2	1:G:646:ARG:HH11	1.44	0.81
1:D:353:CYS:HA	1:D:365:MET:SD	2.20	0.81
1:A:646:ARG:HH11	1:A:646:ARG:HG2	1.46	0.80
1:B:527:ASN:ND2	1:C:531:LYS:HE3	1.96	0.80
1:G:309:TYR:HE2	1:G:325:ARG:HA	1.46	0.80
1:H:280:LEU:HD12	1:H:337:ILE:HD13	1.61	0.80
1:E:204:ASP:HB2	1:E:209:LEU:HD22	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:205:LYS:HD2	1:D:205:LYS:H	1.44	0.80
1:B:199:SER:HB2	1:B:212:LEU:HD11	1.63	0.80
1:G:183:ARG:O	1:H:758:ASN:HB2	1.82	0.80
1:B:309:TYR:HE2	1:B:325:ARG:HA	1.47	0.80
1:G:310:THR:HG21	1:G:315:SER:HB3	1.64	0.80
1:H:646:ARG:HG2	1:H:646:ARG:HH11	1.47	0.79
1:E:213:VAL:HG11	1:E:345:LEU:HD21	1.63	0.79
1:D:310:THR:HG21	1:D:315:SER:HB3	1.64	0.79
1:F:201:ILE:CD1	1:F:212:LEU:HA	2.08	0.79
1:G:188:VAL:CG2	1:G:386:ILE:HD11	2.13	0.79
1:F:353:CYS:HA	1:F:365:MET:SD	2.23	0.79
1:A:465:GLU:OE2	1:A:468:GLU:CD	2.17	0.79
1:A:140:PHE:CE1	1:A:588:ARG:HA	2.17	0.79
1:G:208:ARG:HG2	1:G:209:LEU:N	1.97	0.79
1:D:309:TYR:HE2	1:D:325:ARG:HA	1.48	0.79
1:D:140:PHE:CE1	1:D:588:ARG:HA	2.17	0.79
1:D:300:HIS:HE1	1:D:302:HIS:HB3	1.46	0.78
1:A:444:PRO:HB3	1:A:602:THR:HG21	1.64	0.78
1:B:210:VAL:HG13	1:B:211:TYR:N	1.97	0.78
1:C:708:THR:HG23	1:C:710:PRO:HD2	1.65	0.78
1:F:188:VAL:CG2	1:F:386:ILE:HD11	2.13	0.78
1:G:150:ASN:HA	1:G:153:VAL:HG12	1.65	0.78
1:B:496:VAL:HG11	1:B:506:ILE:HG21	1.65	0.78
1:C:140:PHE:CE1	1:C:588:ARG:HA	2.18	0.78
1:B:619:LEU:HD13	1:C:612:GLU:OE1	1.84	0.78
1:G:211:TYR:HD2	1:G:212:LEU:H	1.29	0.78
1:H:188:VAL:CG2	1:H:386:ILE:HD11	2.14	0.78
1:B:685:PHE:O	1:B:700:VAL:HG22	1.84	0.78
1:D:685:PHE:O	1:D:700:VAL:HG22	1.84	0.78
1:G:201:ILE:HD11	1:G:208:ARG:HB2	1.66	0.78
1:B:310:THR:HG21	1:B:315:SER:HB3	1.63	0.78
1:D:300:HIS:CE1	1:D:302:HIS:HB3	2.18	0.78
1:F:140:PHE:CE1	1:F:588:ARG:HA	2.18	0.78
1:B:140:PHE:CE1	1:B:588:ARG:HA	2.18	0.77
1:B:150:ASN:HA	1:B:153:VAL:HG12	1.64	0.77
1:C:309:TYR:HE2	1:C:325:ARG:HA	1.49	0.77
1:C:518:THR:HG22	1:C:520:GLN:H	1.48	0.77
1:E:140:PHE:CE1	1:E:588:ARG:HA	2.18	0.77
1:F:496:VAL:HG11	1:F:506:ILE:HG21	1.66	0.77
1:H:278:GLY:H	1:H:332:ILE:HG23	1.49	0.77
1:E:740:TRP:CZ2	1:F:314:PRO:HB2	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:310:THR:HG21	1:A:315:SER:HB3	1.66	0.77
1:E:280:LEU:HD12	1:E:337:ILE:HD13	1.65	0.77
1:A:208:ARG:O	1:A:208:ARG:HD2	1.83	0.77
1:H:140:PHE:CE1	1:H:588:ARG:HA	2.19	0.77
1:H:496:VAL:HG11	1:H:506:ILE:HG21	1.65	0.77
1:C:496:VAL:HG11	1:C:506:ILE:HG21	1.66	0.77
1:E:150:ASN:HA	1:E:153:VAL:HG12	1.66	0.77
1:G:314:PRO:HB2	1:H:740:TRP:CZ2	2.19	0.77
1:G:685:PHE:O	1:G:700:VAL:HG22	1.85	0.77
1:D:188:VAL:HG21	1:D:386:ILE:HD11	1.67	0.77
1:E:200:VAL:O	1:E:213:VAL:HB	1.85	0.77
1:E:188:VAL:CG2	1:E:386:ILE:HD11	2.14	0.77
1:G:310:THR:O	1:G:468:GLU:OE1	2.03	0.77
1:F:300:HIS:CE1	1:F:302:HIS:HB3	2.19	0.76
1:G:209:LEU:HG	1:G:210:VAL:H	1.50	0.76
1:A:280:LEU:HD12	1:A:337:ILE:HD13	1.66	0.76
1:A:309:TYR:HE2	1:A:325:ARG:HA	1.50	0.76
1:A:496:VAL:HG11	1:A:506:ILE:HG21	1.65	0.76
1:F:220:VAL:HG21	1:F:334:VAL:HG12	1.66	0.76
1:C:150:ASN:HA	1:C:153:VAL:HG12	1.67	0.76
1:G:140:PHE:CE1	1:G:588:ARG:HA	2.20	0.76
1:D:515:HIS:HD2	1:D:517:VAL:H	1.33	0.76
1:H:191:GLN:HE22	1:H:223:SER:H	1.33	0.76
1:C:201:ILE:HD13	1:C:212:LEU:HA	1.66	0.76
1:G:191:GLN:HE22	1:G:223:SER:H	1.34	0.76
1:G:518:THR:HG22	1:G:520:GLN:H	1.50	0.76
1:A:188:VAL:CG2	1:A:386:ILE:HD11	2.14	0.76
1:B:238:GLY:HA3	1:B:267:LYS:HG2	1.67	0.76
1:C:191:GLN:HE22	1:C:223:SER:H	1.32	0.76
1:F:515:HIS:HD2	1:F:517:VAL:H	1.32	0.76
1:H:210:VAL:HG22	1:H:211:TYR:N	1.97	0.76
1:E:758:ASN:HB2	1:F:183:ARG:O	1.85	0.75
1:D:508:LYS:NZ	1:E:624:ASP:HB2	2.00	0.75
1:E:220:VAL:HG21	1:E:334:VAL:HG12	1.68	0.75
1:G:210:VAL:HG13	1:G:211:TYR:H	1.52	0.75
1:B:191:GLN:HE22	1:B:223:SER:H	1.33	0.75
1:C:310:THR:HG21	1:C:315:SER:HB3	1.68	0.75
1:G:496:VAL:HG11	1:G:506:ILE:HG21	1.67	0.75
1:D:732:ARG:HH11	1:D:732:ARG:HG3	1.52	0.75
1:B:232:LEU:HD22	1:B:373:VAL:HG11	1.68	0.75
1:F:310:THR:HG21	1:F:315:SER:HB3	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:232:LEU:HD22	1:H:373:VAL:HG11	1.69	0.75
1:E:708:THR:HG23	1:E:710:PRO:HD2	1.69	0.75
1:G:318:HIS:O	1:G:322:PRO:HB3	1.87	0.75
1:B:518:THR:HG22	1:B:520:GLN:H	1.50	0.74
1:E:349:MET:HG2	1:E:367:THR:HA	1.68	0.74
1:G:708:THR:HG23	1:G:710:PRO:HD2	1.69	0.74
1:G:732:ARG:HH11	1:G:732:ARG:HG3	1.52	0.74
1:H:220:VAL:HG21	1:H:334:VAL:HG12	1.69	0.74
1:C:238:GLY:O	1:C:240:LYS:N	2.20	0.74
1:C:278:GLY:H	1:C:332:ILE:HG23	1.51	0.74
1:C:188:VAL:HG21	1:C:386:ILE:HD11	1.69	0.74
1:E:278:GLY:H	1:E:332:ILE:HG23	1.51	0.74
1:E:496:VAL:HG11	1:E:506:ILE:HG21	1.68	0.74
1:F:309:TYR:HE2	1:F:325:ARG:HA	1.51	0.74
1:H:150:ASN:HA	1:H:153:VAL:HG12	1.68	0.74
1:D:518:THR:HG22	1:D:520:GLN:H	1.52	0.74
1:E:310:THR:HG21	1:E:315:SER:HB3	1.70	0.74
1:H:310:THR:HG21	1:H:315:SER:HB3	1.69	0.74
1:A:150:ASN:HA	1:A:153:VAL:HG12	1.69	0.74
1:D:278:GLY:H	1:D:332:ILE:HG23	1.52	0.74
1:D:496:VAL:HG11	1:D:506:ILE:HG21	1.69	0.74
1:F:307:ASP:HB3	1:F:465:GLU:OE1	1.87	0.74
1:A:278:GLY:H	1:A:332:ILE:HG23	1.53	0.74
1:F:280:LEU:HD12	1:F:337:ILE:HD13	1.70	0.74
1:G:213:VAL:O	1:G:214:GLU:HB2	1.86	0.74
1:C:246:LEU:HD12	1:C:247:TYR:N	2.03	0.73
1:C:359:THR:HG22	1:C:360:ASP:N	2.02	0.73
1:C:685:PHE:O	1:C:700:VAL:HG22	1.88	0.73
1:E:398:GLU:HB2	1:E:446:ARG:HG2	1.70	0.73
1:G:349:MET:HG2	1:G:367:THR:HA	1.70	0.73
1:G:232:LEU:HD22	1:G:373:VAL:HG11	1.70	0.73
1:H:318:HIS:O	1:H:322:PRO:HB3	1.88	0.73
1:C:188:VAL:CG2	1:C:386:ILE:HD11	2.18	0.73
1:C:214:GLU:O	1:C:216:PRO:HD3	1.87	0.73
1:C:314:PRO:HB2	1:D:740:TRP:CZ2	2.23	0.73
1:A:191:GLN:HE22	1:A:223:SER:H	1.34	0.73
1:A:232:LEU:HD22	1:A:373:VAL:HG11	1.70	0.73
1:F:232:LEU:HD22	1:F:373:VAL:HG11	1.70	0.73
1:A:183:ARG:O	1:B:758:ASN:HB2	1.87	0.73
1:A:295:LEU:HD21	1:A:568:THR:HG21	1.70	0.73
1:F:518:THR:HG22	1:F:520:GLN:H	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:232:LEU:HD22	1:E:373:VAL:HG11	1.71	0.73
1:G:238:GLY:HA3	1:G:267:LYS:HG2	1.71	0.73
1:G:278:GLY:H	1:G:332:ILE:HG23	1.53	0.73
1:C:232:LEU:HD22	1:C:373:VAL:HG11	1.71	0.73
1:D:232:LEU:HD22	1:D:373:VAL:HG11	1.71	0.73
1:A:518:THR:HG22	1:A:520:GLN:H	1.54	0.73
1:B:407:ALA:HB3	1:B:426:LEU:HD12	1.70	0.73
1:C:239:THR:HB	1:C:244:GLU:CG	2.19	0.73
1:C:758:ASN:HB2	1:D:183:ARG:O	1.89	0.73
1:F:619:LEU:HD13	1:G:612:GLU:OE1	1.89	0.73
1:C:349:MET:HG2	1:C:367:THR:HA	1.71	0.73
1:E:397:VAL:C	1:E:399:PRO:HD3	2.09	0.73
1:E:685:PHE:O	1:E:700:VAL:HG22	1.88	0.73
1:F:612:GLU:OE1	1:G:619:LEU:HD13	1.88	0.73
1:H:140:PHE:O	1:H:144:ILE:HG13	1.89	0.73
1:A:188:VAL:HG21	1:A:386:ILE:HD11	1.70	0.72
1:A:229:THR:HB	1:A:374:LYS:HG3	1.71	0.72
1:E:518:THR:HG22	1:E:520:GLN:H	1.54	0.72
1:G:220:VAL:HG21	1:G:334:VAL:HG12	1.69	0.72
1:A:220:VAL:HG21	1:A:334:VAL:HG12	1.69	0.72
1:B:398:GLU:HB2	1:B:446:ARG:HG2	1.72	0.72
1:D:213:VAL:HG11	1:D:345:LEU:HD21	1.70	0.72
1:F:397:VAL:C	1:F:399:PRO:HD3	2.09	0.72
1:H:398:GLU:HB2	1:H:446:ARG:HG2	1.72	0.72
1:B:531:LYS:HE3	1:C:527:ASN:ND2	2.04	0.72
1:B:305:THR:HG23	1:B:464:THR:HG21	1.71	0.72
1:A:740:TRP:CZ2	1:B:314:PRO:HB2	2.25	0.72
1:B:318:HIS:O	1:B:322:PRO:HB3	1.88	0.72
1:F:210:VAL:HG13	1:F:211:TYR:N	2.00	0.72
1:B:278:GLY:H	1:B:332:ILE:HG23	1.54	0.72
1:B:295:LEU:HD21	1:B:568:THR:HG21	1.71	0.72
1:C:318:HIS:O	1:C:322:PRO:HB3	1.89	0.72
1:C:397:VAL:C	1:C:399:PRO:HD3	2.10	0.72
1:G:214:GLU:OE1	1:G:341:ALA:HB2	1.89	0.72
1:F:214:GLU:O	1:F:216:PRO:HD3	1.88	0.72
1:A:397:VAL:C	1:A:399:PRO:HD3	2.10	0.72
1:C:398:GLU:HB2	1:C:446:ARG:HG2	1.71	0.72
1:C:732:ARG:HH11	1:C:732:ARG:HG3	1.55	0.72
1:E:238:GLY:HA3	1:E:267:LYS:HG2	1.72	0.72
1:G:515:HIS:HD2	1:G:517:VAL:H	1.36	0.72
1:A:407:ALA:HB3	1:A:426:LEU:HD12	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:183:ARG:NH1	1:B:387:LEU:HD21	2.04	0.72
1:C:515:HIS:HD2	1:C:517:VAL:H	1.38	0.72
1:D:349:MET:HG2	1:D:367:THR:HA	1.72	0.72
1:G:397:VAL:C	1:G:399:PRO:HD3	2.10	0.72
1:A:212:LEU:HD21	1:A:215:ASN:HD21	1.55	0.71
1:B:297:PHE:O	1:B:336:THR:HG21	1.90	0.71
1:B:515:HIS:HD2	1:B:517:VAL:H	1.38	0.71
1:D:150:ASN:HA	1:D:153:VAL:HG12	1.72	0.71
1:G:465:GLU:OE2	1:G:468:GLU:CD	2.27	0.71
1:H:349:MET:HG2	1:H:367:THR:HA	1.72	0.71
1:F:188:VAL:HG21	1:F:386:ILE:HD11	1.70	0.71
1:H:229:THR:HB	1:H:374:LYS:HG3	1.71	0.71
1:A:318:HIS:O	1:A:322:PRO:HB3	1.90	0.71
1:B:229:THR:HB	1:B:374:LYS:HG3	1.70	0.71
1:E:203:VAL:HA	1:E:209:LEU:CB	2.11	0.71
1:C:256:ILE:HD11	1:C:349:MET:HE1	1.73	0.71
1:D:330:PRO:O	1:D:331:ASN:HB3	1.91	0.71
1:E:318:HIS:O	1:E:322:PRO:HB3	1.90	0.71
1:E:515:HIS:HD2	1:E:517:VAL:H	1.38	0.71
1:E:732:ARG:HH11	1:E:732:ARG:HG3	1.55	0.71
1:G:130:LYS:HE2	1:G:440:ASP:OD1	1.91	0.71
1:H:295:LEU:HD21	1:H:568:THR:HG21	1.72	0.71
1:H:397:VAL:C	1:H:399:PRO:HD3	2.11	0.71
1:H:518:THR:HG22	1:H:520:GLN:H	1.56	0.71
1:D:398:GLU:HB2	1:D:446:ARG:HG2	1.73	0.71
1:F:278:GLY:H	1:F:332:ILE:HG23	1.53	0.71
1:H:202:ILE:HG22	1:H:209:LEU:HD23	1.73	0.71
1:H:330:PRO:O	1:H:331:ASN:HB3	1.91	0.71
1:H:708:THR:HG23	1:H:710:PRO:HD2	1.72	0.71
1:D:397:VAL:C	1:D:399:PRO:HD3	2.12	0.71
1:F:238:GLY:HA3	1:F:267:LYS:HG2	1.72	0.71
1:H:188:VAL:HG21	1:H:386:ILE:HD11	1.71	0.71
1:B:188:VAL:CG2	1:B:386:ILE:HD11	2.21	0.71
1:F:732:ARG:HH11	1:F:732:ARG:HG3	1.56	0.71
1:G:313:PHE:O	1:G:468:GLU:OE1	2.09	0.71
1:A:515:HIS:HD2	1:A:517:VAL:H	1.37	0.70
1:D:239:THR:HB	1:D:244:GLU:CG	2.21	0.70
1:F:398:GLU:HB2	1:F:446:ARG:HG2	1.72	0.70
1:D:651:ARG:HH21	1:E:658:THR:HG21	1.57	0.70
1:B:229:THR:HB	1:B:374:LYS:CG	2.21	0.70
1:B:341:ALA:O	1:B:345:LEU:HD23	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:191:GLN:HE22	1:D:223:SER:H	1.40	0.70
1:E:313:PHE:O	1:E:468:GLU:OE1	2.09	0.70
1:H:297:PHE:O	1:H:336:THR:HG21	1.91	0.70
1:D:200:VAL:HG23	1:D:213:VAL:HB	1.72	0.70
1:E:295:LEU:HD21	1:E:568:THR:HG21	1.71	0.70
1:A:685:PHE:O	1:A:700:VAL:HG22	1.90	0.70
1:C:211:TYR:HB3	1:C:213:VAL:H	1.57	0.70
1:E:188:VAL:HG21	1:E:386:ILE:HD11	1.72	0.70
1:F:239:THR:HB	1:F:244:GLU:CG	2.21	0.70
1:F:150:ASN:HA	1:F:153:VAL:HG12	1.72	0.70
1:F:318:HIS:O	1:F:322:PRO:HB3	1.91	0.70
1:F:520:GLN:NE2	1:G:240:LYS:HZ3	1.90	0.70
1:H:209:LEU:HD21	1:H:371:LYS:HG2	1.72	0.70
1:A:130:LYS:HE2	1:A:440:ASP:OD1	1.92	0.70
1:B:732:ARG:HH11	1:B:732:ARG:HG3	1.55	0.70
1:C:330:PRO:O	1:C:331:ASN:HB3	1.92	0.70
1:D:297:PHE:O	1:D:336:THR:HG21	1.90	0.70
1:E:200:VAL:HG23	1:E:213:VAL:HB	1.72	0.70
1:E:297:PHE:O	1:E:336:THR:HG21	1.92	0.70
1:G:398:GLU:HB2	1:G:446:ARG:HG2	1.72	0.70
1:C:232:LEU:HB3	1:C:367:THR:HG23	1.71	0.70
1:C:280:LEU:HD12	1:C:337:ILE:HD13	1.73	0.70
1:F:708:THR:HG23	1:F:710:PRO:HD2	1.73	0.70
1:G:188:VAL:HG21	1:G:386:ILE:HD11	1.72	0.70
1:D:140:PHE:O	1:D:144:ILE:HG13	1.90	0.70
1:D:130:LYS:HE2	1:D:440:ASP:OD1	1.92	0.70
1:G:140:PHE:O	1:G:144:ILE:HG13	1.91	0.70
1:E:229:THR:HB	1:E:374:LYS:HG3	1.73	0.70
1:F:191:GLN:HE22	1:F:223:SER:H	1.40	0.70
1:E:183:ARG:NH1	1:E:387:LEU:HD21	2.06	0.69
1:E:191:GLN:HE22	1:E:223:SER:H	1.37	0.69
1:E:330:PRO:O	1:E:331:ASN:HB3	1.92	0.69
1:A:183:ARG:NH1	1:A:387:LEU:HD21	2.08	0.69
1:G:239:THR:HB	1:G:244:GLU:CG	2.22	0.69
1:G:297:PHE:O	1:G:336:THR:HG21	1.92	0.69
1:H:732:ARG:HG3	1:H:732:ARG:HH11	1.56	0.69
1:F:238:GLY:O	1:F:240:LYS:N	2.25	0.69
1:A:229:THR:HB	1:A:374:LYS:CG	2.21	0.69
1:D:620:SER:OG	1:E:508:LYS:HE2	1.93	0.69
1:G:202:ILE:H	1:G:213:VAL:HG21	1.56	0.69
1:B:204:ASP:C	1:B:206:ASN:H	1.95	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:214:GLU:O	1:H:216:PRO:HD3	1.90	0.69
1:B:238:GLY:HA3	1:B:267:LYS:CG	2.22	0.69
1:B:397:VAL:C	1:B:399:PRO:HD3	2.12	0.69
1:F:254:ILE:HA	1:F:277:ILE:O	1.92	0.69
1:H:488:VAL:O	1:H:489:LEU:HD12	1.92	0.69
1:C:131:LEU:O	1:C:135:LEU:HD23	1.93	0.69
1:G:310:THR:OG1	1:G:468:GLU:OE1	2.09	0.69
1:G:330:PRO:O	1:G:331:ASN:HB3	1.92	0.69
1:G:740:TRP:CZ2	1:H:314:PRO:HB2	2.28	0.69
1:A:626:ASN:HB3	1:A:629:ARG:HH21	1.58	0.69
1:C:238:GLY:HA3	1:C:267:LYS:HG2	1.74	0.69
1:E:214:GLU:O	1:E:216:PRO:HD3	1.93	0.69
1:E:314:PRO:HB2	1:F:740:TRP:CZ2	2.28	0.69
1:G:210:VAL:HG22	1:G:211:TYR:N	2.08	0.69
1:G:309:TYR:CE2	1:G:325:ARG:HA	2.28	0.69
1:H:183:ARG:NH1	1:H:387:LEU:HD21	2.08	0.69
1:B:625:LEU:HD21	1:B:639:LEU:HD11	1.73	0.69
1:D:624:ASP:HB2	1:E:508:LYS:NZ	2.07	0.69
1:H:239:THR:HB	1:H:244:GLU:CG	2.23	0.69
1:A:732:ARG:HH11	1:A:732:ARG:HG3	1.58	0.69
1:C:210:VAL:HG12	1:C:210:VAL:O	1.92	0.69
1:A:398:GLU:HB2	1:A:446:ARG:HG2	1.75	0.68
1:B:150:ASN:HA	1:B:153:VAL:CG1	2.22	0.68
1:B:309:TYR:CE2	1:B:325:ARG:HA	2.28	0.68
1:G:183:ARG:NH1	1:G:387:LEU:HD21	2.08	0.68
1:H:605:VAL:HG11	1:H:665:LYS:HB3	1.76	0.68
1:A:214:GLU:O	1:A:216:PRO:HD3	1.94	0.68
1:A:708:THR:CG2	1:A:710:PRO:HD2	2.22	0.68
1:B:351:GLY:O	1:B:364:ARG:HD3	1.93	0.68
1:F:246:LEU:HD12	1:F:247:TYR:N	2.08	0.68
1:G:131:LEU:O	1:G:135:LEU:HD23	1.93	0.68
1:H:229:THR:HB	1:H:374:LYS:CG	2.23	0.68
1:A:330:PRO:O	1:A:331:ASN:HB3	1.93	0.68
1:F:624:ASP:HB2	1:G:508:LYS:NZ	2.08	0.68
1:B:506:ILE:O	1:B:510:MET:HG3	1.93	0.68
1:C:238:GLY:HA3	1:C:267:LYS:CG	2.23	0.68
1:E:229:THR:HB	1:E:374:LYS:CG	2.24	0.68
1:G:204:ASP:C	1:G:206:ASN:H	1.95	0.68
1:B:183:ARG:HH12	1:B:387:LEU:HD21	1.58	0.68
1:C:130:LYS:HE2	1:C:440:ASP:OD1	1.92	0.68
1:C:300:HIS:HE2	1:C:459:GLY:CA	2.07	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:208:ARG:H	1:F:208:ARG:HD3	1.59	0.68
1:F:183:ARG:NH1	1:F:387:LEU:HD21	2.08	0.68
1:B:349:MET:HG2	1:B:367:THR:HA	1.76	0.68
1:D:232:LEU:HB3	1:D:367:THR:HG23	1.75	0.68
1:E:488:VAL:O	1:E:489:LEU:HD12	1.93	0.68
1:H:209:LEU:HD12	1:H:210:VAL:H	1.59	0.68
1:H:490:GLY:HA3	1:H:559:GLU:HG2	1.76	0.68
1:B:330:PRO:O	1:B:331:ASN:HB3	1.94	0.68
1:D:318:HIS:O	1:D:322:PRO:HB3	1.93	0.68
1:F:520:GLN:NE2	1:G:240:LYS:NZ	2.42	0.68
1:G:208:ARG:CG	1:G:209:LEU:H	2.02	0.68
1:H:309:TYR:CE2	1:H:325:ARG:HA	2.27	0.68
1:A:349:MET:HG2	1:A:367:THR:HA	1.73	0.68
1:A:488:VAL:O	1:A:489:LEU:HD12	1.94	0.68
1:B:213:VAL:HG11	1:B:345:LEU:HD21	1.74	0.68
1:H:515:HIS:HD2	1:H:517:VAL:H	1.41	0.68
1:A:239:THR:HB	1:A:244:GLU:CG	2.22	0.68
1:F:646:ARG:HG2	1:F:646:ARG:NH1	2.09	0.68
1:B:542:PHE:HB3	1:B:543:PRO:HD3	1.75	0.67
1:H:298:PHE:HB2	1:H:412:TRP:CD2	2.29	0.67
1:D:313:PHE:O	1:D:468:GLU:OE1	2.11	0.67
1:F:229:THR:HB	1:F:374:LYS:HG3	1.74	0.67
1:F:330:PRO:O	1:F:331:ASN:HB3	1.94	0.67
1:F:626:ASN:HB3	1:F:629:ARG:HH21	1.60	0.67
1:F:685:PHE:O	1:F:700:VAL:HG22	1.94	0.67
1:B:239:THR:HB	1:B:244:GLU:CG	2.24	0.67
1:D:213:VAL:HG11	1:D:345:LEU:CD2	2.24	0.67
1:E:309:TYR:CE2	1:E:325:ARG:HA	2.27	0.67
1:G:150:ASN:HA	1:G:153:VAL:CG1	2.24	0.67
1:A:297:PHE:O	1:A:336:THR:HG21	1.94	0.67
1:A:341:ALA:O	1:A:345:LEU:HD23	1.95	0.67
1:B:220:VAL:HG21	1:B:334:VAL:HG12	1.75	0.67
1:D:220:VAL:HG21	1:D:334:VAL:HG12	1.74	0.67
1:E:210:VAL:HG22	1:E:211:TYR:N	2.09	0.67
1:F:240:LYS:NZ	1:G:520:GLN:HE22	1.92	0.67
1:F:351:GLY:O	1:F:364:ARG:HD3	1.94	0.67
1:G:238:GLY:HA3	1:G:267:LYS:CG	2.23	0.67
1:D:658:THR:HG21	1:E:651:ARG:HH21	1.58	0.67
1:B:254:ILE:HA	1:B:277:ILE:O	1.94	0.67
1:B:337:ILE:HG23	1:B:341:ALA:HB3	1.77	0.67
1:D:309:TYR:CE2	1:D:325:ARG:HA	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:619:LEU:HD13	1:E:612:GLU:OE1	1.94	0.67
1:E:232:LEU:HB3	1:E:367:THR:HG23	1.75	0.67
1:G:254:ILE:HA	1:G:277:ILE:O	1.95	0.67
1:H:407:ALA:HB3	1:H:426:LEU:HD12	1.77	0.67
1:A:155:ARG:HH21	1:A:165:LEU:HD22	1.60	0.67
1:B:307:ASP:HB3	1:B:465:GLU:OE1	1.94	0.67
1:B:313:PHE:O	1:B:468:GLU:OE1	2.12	0.67
1:B:188:VAL:HG21	1:B:386:ILE:HD11	1.76	0.67
1:C:542:PHE:HB3	1:C:543:PRO:HD3	1.74	0.67
1:E:740:TRP:CH2	1:F:314:PRO:HB2	2.30	0.67
1:F:349:MET:HG2	1:F:367:THR:HA	1.77	0.67
1:H:690:VAL:HG23	1:H:698:ARG:HG2	1.77	0.67
1:C:150:ASN:HA	1:C:153:VAL:CG1	2.24	0.67
1:F:238:GLY:HA3	1:F:267:LYS:CG	2.25	0.67
1:F:297:PHE:O	1:F:336:THR:HG21	1.95	0.67
1:F:403:VAL:HG22	1:F:479:PHE:CZ	2.29	0.67
1:H:238:GLY:HA3	1:H:267:LYS:HG2	1.76	0.67
1:B:300:HIS:HE2	1:B:459:GLY:CA	2.07	0.67
1:E:403:VAL:HG22	1:E:479:PHE:CZ	2.30	0.67
1:A:309:TYR:CE2	1:A:325:ARG:HA	2.30	0.66
1:B:208:ARG:HG2	1:B:208:ARG:O	1.94	0.66
1:B:526:SER:O	1:C:533:GLU:HG3	1.94	0.66
1:C:191:GLN:HE22	1:C:223:SER:N	1.93	0.66
1:E:150:ASN:HA	1:E:153:VAL:CG1	2.24	0.66
1:F:232:LEU:HD11	1:F:256:ILE:HG13	1.76	0.66
1:G:229:THR:HB	1:G:374:LYS:HG3	1.77	0.66
1:A:254:ILE:HA	1:A:277:ILE:O	1.95	0.66
1:A:686:LEU:HD23	1:A:699:HIS:CA	2.25	0.66
1:D:254:ILE:HA	1:D:277:ILE:O	1.95	0.66
1:E:130:LYS:HE2	1:E:440:ASP:OD1	1.94	0.66
1:G:465:GLU:OE2	1:G:468:GLU:OE2	2.12	0.66
1:D:280:LEU:HD12	1:D:337:ILE:HD13	1.77	0.66
1:E:626:ASN:HB3	1:E:629:ARG:HH21	1.61	0.66
1:F:490:GLY:HA3	1:F:559:GLU:HG2	1.77	0.66
1:G:407:ALA:HB3	1:G:426:LEU:HD12	1.78	0.66
1:A:351:GLY:O	1:A:364:ARG:HD3	1.95	0.66
1:C:254:ILE:HA	1:C:277:ILE:O	1.96	0.66
1:C:297:PHE:O	1:C:336:THR:HG21	1.94	0.66
1:G:183:ARG:HH12	1:G:387:LEU:HD21	1.60	0.66
1:G:758:ASN:N	1:G:758:ASN:HD22	1.93	0.66
1:H:351:GLY:O	1:H:364:ARG:HD3	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:311:PRO:O	1:A:693:LYS:HA	1.96	0.66
1:C:309:TYR:CE2	1:C:325:ARG:HA	2.30	0.66
1:D:238:GLY:HA3	1:D:267:LYS:HG2	1.77	0.66
1:E:201:ILE:CD1	1:E:212:LEU:HA	2.23	0.66
1:E:239:THR:HB	1:E:244:GLU:CG	2.25	0.66
1:A:150:ASN:HA	1:A:153:VAL:CG1	2.26	0.66
1:D:359:THR:HG22	1:D:360:ASP:N	2.07	0.66
1:G:202:ILE:N	1:G:213:VAL:HG21	2.10	0.66
1:A:490:GLY:HA3	1:A:559:GLU:HG2	1.76	0.66
1:D:183:ARG:NH1	1:D:387:LEU:HD21	2.09	0.66
1:E:238:GLY:HA3	1:E:267:LYS:CG	2.26	0.66
1:F:229:THR:HB	1:F:374:LYS:CG	2.25	0.66
1:F:407:ALA:HB3	1:F:426:LEU:HD12	1.77	0.66
1:H:625:LEU:HD21	1:H:639:LEU:HD11	1.78	0.66
1:A:140:PHE:O	1:A:144:ILE:HG13	1.94	0.66
1:B:167:LEU:HD22	1:B:183:ARG:HH22	1.58	0.66
1:B:527:ASN:CG	1:C:531:LYS:HE3	2.15	0.66
1:D:238:GLY:HA3	1:D:267:LYS:CG	2.26	0.66
1:D:336:THR:O	1:D:337:ILE:HD12	1.96	0.66
1:G:349:MET:HB3	1:G:366:VAL:O	1.95	0.66
1:A:359:THR:HG22	1:A:360:ASP:N	2.06	0.66
1:E:664:GLU:H	1:E:664:GLU:CD	1.99	0.66
1:F:309:TYR:CE2	1:F:325:ARG:HA	2.31	0.66
1:C:618:LEU:HD11	1:C:742:ILE:HD13	1.77	0.66
1:D:211:TYR:HD2	1:D:213:VAL:HA	1.61	0.66
1:D:664:GLU:H	1:D:664:GLU:CD	1.98	0.66
1:E:351:GLY:O	1:E:364:ARG:HD3	1.96	0.66
1:F:542:PHE:HB3	1:F:543:PRO:HD3	1.76	0.66
1:G:156:GLU:HG2	1:G:157:ALA:H	1.60	0.66
1:E:203:VAL:HG23	1:E:206:ASN:O	1.96	0.65
1:F:758:ASN:HD22	1:F:758:ASN:N	1.93	0.65
1:G:211:TYR:HD2	1:G:212:LEU:N	1.94	0.65
1:G:201:ILE:HA	1:G:213:VAL:CG2	2.26	0.65
1:A:337:ILE:HG23	1:A:341:ALA:HB3	1.77	0.65
1:D:758:ASN:HD22	1:D:758:ASN:N	1.94	0.65
1:E:167:LEU:HD22	1:E:183:ARG:HH22	1.61	0.65
1:E:213:VAL:CG1	1:E:345:LEU:HD21	2.26	0.65
1:F:625:LEU:HD21	1:F:639:LEU:HD11	1.77	0.65
1:H:709:LEU:HB3	1:H:710:PRO:HD3	1.78	0.65
1:A:664:GLU:CD	1:A:664:GLU:H	2.00	0.65
1:B:359:THR:HG22	1:B:360:ASP:N	2.03	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:490:GLY:HA3	1:C:559:GLU:HG2	1.78	0.65
1:A:209:LEU:CG	1:A:210:VAL:H	2.07	0.65
1:A:238:GLY:O	1:A:240:LYS:N	2.29	0.65
1:D:588:ARG:HG3	1:D:588:ARG:HH11	1.62	0.65
1:D:686:LEU:HD23	1:D:699:HIS:CA	2.26	0.65
1:H:626:ASN:HB3	1:H:629:ARG:HH21	1.62	0.65
1:B:232:LEU:HB3	1:B:367:THR:HG23	1.76	0.65
1:C:155:ARG:HH21	1:C:165:LEU:HD22	1.62	0.65
1:F:337:ILE:HG23	1:F:341:ALA:HB3	1.79	0.65
1:F:664:GLU:H	1:F:664:GLU:CD	2.00	0.65
1:H:232:LEU:HB3	1:H:367:THR:HG23	1.78	0.65
1:B:139:ASP:OD1	1:B:141:THR:HG22	1.97	0.65
1:B:353:CYS:HB2	1:B:363:CYS:O	1.96	0.65
1:D:167:LEU:HD22	1:D:183:ARG:HH22	1.61	0.65
1:F:130:LYS:HE2	1:F:440:ASP:OD1	1.96	0.65
1:C:183:ARG:NH1	1:C:387:LEU:HD21	2.11	0.65
1:B:527:ASN:HD21	1:C:531:LYS:HE3	1.60	0.65
1:E:194:ASP:HB3	1:E:378:SER:O	1.96	0.65
1:E:210:VAL:HG13	1:E:211:TYR:N	2.10	0.65
1:E:341:ALA:O	1:E:345:LEU:HD23	1.97	0.65
1:E:686:LEU:HD23	1:E:699:HIS:CA	2.27	0.65
1:G:211:TYR:HD2	1:G:213:VAL:H	1.45	0.65
1:G:232:LEU:HB3	1:G:367:THR:HG23	1.77	0.65
1:G:229:THR:HB	1:G:374:LYS:CG	2.26	0.65
1:G:716:LEU:HD13	1:G:731:PHE:CE1	2.32	0.65
1:H:256:ILE:HD11	1:H:349:MET:HE1	1.78	0.65
1:H:254:ILE:HA	1:H:277:ILE:O	1.96	0.65
1:H:359:THR:HG22	1:H:360:ASP:N	2.08	0.65
1:H:758:ASN:N	1:H:758:ASN:HD22	1.95	0.65
1:A:232:LEU:HD21	1:A:256:ILE:HD11	1.79	0.65
1:A:183:ARG:HH12	1:A:387:LEU:HD21	1.61	0.65
1:B:140:PHE:O	1:B:144:ILE:HG13	1.96	0.65
1:C:191:GLN:NE2	1:C:223:SER:H	1.94	0.65
1:C:488:VAL:O	1:C:489:LEU:HD12	1.97	0.65
1:C:506:ILE:O	1:C:510:MET:HG3	1.96	0.65
1:F:256:ILE:HD11	1:F:349:MET:HE1	1.79	0.65
1:G:446:ARG:HD2	1:G:479:PHE:CE2	2.31	0.65
1:H:240:LYS:C	1:H:242:ASP:H	2.00	0.65
1:A:232:LEU:HB3	1:A:367:THR:HG23	1.78	0.65
1:B:626:ASN:HB3	1:B:629:ARG:HH21	1.62	0.65
1:B:686:LEU:HD23	1:B:699:HIS:CA	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:351:GLY:O	1:C:364:ARG:HD3	1.96	0.65
1:D:626:ASN:HB3	1:D:629:ARG:HH21	1.62	0.65
1:H:506:ILE:O	1:H:510:MET:HG3	1.96	0.65
1:A:686:LEU:HD23	1:A:699:HIS:HA	1.79	0.64
1:C:204:ASP:O	1:C:206:ASN:N	2.30	0.64
1:B:612:GLU:OE1	1:C:619:LEU:HD13	1.95	0.64
1:D:139:ASP:OD1	1:D:141:THR:HG22	1.97	0.64
1:D:188:VAL:HG21	1:D:461:VAL:HG11	1.77	0.64
1:H:150:ASN:HA	1:H:153:VAL:CG1	2.26	0.64
1:A:353:CYS:HB2	1:A:363:CYS:O	1.97	0.64
1:B:191:GLN:NE2	1:B:223:SER:H	1.95	0.64
1:B:229:THR:HB	1:B:374:LYS:CB	2.27	0.64
1:B:664:GLU:H	1:B:664:GLU:CD	2.01	0.64
1:C:307:ASP:HB3	1:C:465:GLU:OE1	1.96	0.64
1:C:758:ASN:HD22	1:C:758:ASN:N	1.92	0.64
1:D:341:ALA:O	1:D:345:LEU:HD23	1.98	0.64
1:D:542:PHE:HB3	1:D:543:PRO:HD3	1.77	0.64
1:E:131:LEU:O	1:E:135:LEU:HD23	1.96	0.64
1:G:130:LYS:HE2	1:G:440:ASP:CG	2.17	0.64
1:G:626:ASN:HB3	1:G:629:ARG:HH21	1.61	0.64
1:A:625:LEU:HD21	1:A:639:LEU:HD11	1.79	0.64
1:D:214:GLU:O	1:D:216:PRO:HD3	1.96	0.64
1:D:246:LEU:HD12	1:D:247:TYR:N	2.11	0.64
1:D:605:VAL:HG11	1:D:665:LYS:HB3	1.79	0.64
1:D:708:THR:CG2	1:D:710:PRO:HD2	2.27	0.64
1:F:232:LEU:HB3	1:F:367:THR:HG23	1.78	0.64
1:G:155:ARG:HH21	1:G:165:LEU:HD22	1.62	0.64
1:G:337:ILE:HG23	1:G:341:ALA:HB3	1.78	0.64
1:A:654:SER:O	1:A:657:THR:HG22	1.98	0.64
1:A:758:ASN:HD22	1:A:758:ASN:N	1.96	0.64
1:E:213:VAL:O	1:E:214:GLU:HB2	1.97	0.64
1:E:183:ARG:HH12	1:E:387:LEU:HD21	1.61	0.64
1:G:351:GLY:O	1:G:364:ARG:HD3	1.97	0.64
1:H:183:ARG:HH12	1:H:387:LEU:HD21	1.62	0.64
1:H:246:LEU:HD12	1:H:247:TYR:N	2.11	0.64
1:H:300:HIS:HE2	1:H:459:GLY:CA	2.09	0.64
1:F:349:MET:HB3	1:F:366:VAL:O	1.98	0.64
1:G:664:GLU:H	1:G:664:GLU:CD	2.01	0.64
1:G:758:ASN:HB2	1:H:183:ARG:O	1.97	0.64
1:H:403:VAL:HG22	1:H:479:PHE:CZ	2.33	0.64
1:A:240:LYS:C	1:A:242:ASP:H	2.00	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:664:GLU:OE1	1:F:667:ASP:HB2	1.97	0.64
1:H:204:ASP:HB2	1:H:371:LYS:HB3	1.80	0.64
1:A:238:GLY:HA3	1:A:267:LYS:HG2	1.79	0.64
1:C:306:GLY:HA2	1:C:461:VAL:CA	2.24	0.64
1:D:324:SER:HB3	1:D:325:ARG:HE	1.63	0.64
1:D:664:GLU:OE1	1:D:667:ASP:HB2	1.96	0.64
1:E:130:LYS:HE2	1:E:440:ASP:CG	2.18	0.64
1:E:254:ILE:HA	1:E:277:ILE:O	1.98	0.64
1:E:256:ILE:HD11	1:E:349:MET:HE1	1.80	0.64
1:E:471:LEU:HD13	1:E:547:TYR:OH	1.98	0.64
1:D:508:LYS:HE2	1:E:620:SER:OG	1.97	0.64
1:G:246:LEU:HD12	1:G:247:TYR:N	2.12	0.64
1:H:220:VAL:HG12	1:H:301:ALA:HB2	1.80	0.64
1:H:238:GLY:HA3	1:H:267:LYS:CG	2.27	0.64
1:A:246:LEU:HD12	1:A:247:TYR:N	2.12	0.64
1:C:295:LEU:HD21	1:C:568:THR:HG21	1.79	0.64
1:E:349:MET:HB3	1:E:366:VAL:O	1.97	0.64
1:E:490:GLY:HA3	1:E:559:GLU:HG2	1.78	0.64
1:F:515:HIS:CD2	1:F:517:VAL:H	2.15	0.64
1:F:531:LYS:HE3	1:G:527:ASN:ND2	2.12	0.64
1:G:542:PHE:HB3	1:G:543:PRO:HD3	1.79	0.64
1:G:295:LEU:HD21	1:G:568:THR:HG21	1.79	0.64
1:H:131:LEU:O	1:H:135:LEU:HD23	1.98	0.64
1:H:191:GLN:NE2	1:H:223:SER:H	1.95	0.64
1:B:130:LYS:HE2	1:B:440:ASP:OD1	1.97	0.64
1:B:716:LEU:HD13	1:B:731:PHE:CE1	2.33	0.64
1:C:238:GLY:O	1:C:262:ILE:HD11	1.98	0.64
1:E:664:GLU:OE1	1:E:667:ASP:HB2	1.98	0.64
1:A:542:PHE:HB3	1:A:543:PRO:HD3	1.80	0.64
1:C:130:LYS:HE2	1:C:440:ASP:CG	2.19	0.64
1:D:220:VAL:CG1	1:D:301:ALA:HB2	2.27	0.64
1:H:130:LYS:HE2	1:H:440:ASP:OD1	1.97	0.64
1:A:167:LEU:HD22	1:A:183:ARG:HH22	1.63	0.63
1:A:210:VAL:HG22	1:A:211:TYR:H	1.63	0.63
1:B:349:MET:HB3	1:B:366:VAL:O	1.98	0.63
1:H:686:LEU:HD23	1:H:699:HIS:CA	2.28	0.63
1:A:232:LEU:HD11	1:A:256:ILE:HG13	1.79	0.63
1:B:220:VAL:CG1	1:B:301:ALA:HB2	2.28	0.63
1:B:758:ASN:N	1:B:758:ASN:HD22	1.97	0.63
1:D:515:HIS:CD2	1:D:517:VAL:H	2.15	0.63
1:G:341:ALA:O	1:G:345:LEU:HD23	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:488:VAL:C	1:G:489:LEU:HD12	2.19	0.63
1:A:488:VAL:C	1:A:489:LEU:HD12	2.18	0.63
1:E:238:GLY:O	1:E:240:LYS:N	2.30	0.63
1:G:646:ARG:NH1	1:G:646:ARG:HG2	2.14	0.63
1:H:191:GLN:HE22	1:H:223:SER:N	1.97	0.63
1:C:336:THR:O	1:C:337:ILE:HD12	1.98	0.63
1:D:240:LYS:C	1:D:242:ASP:H	2.02	0.63
1:D:407:ALA:HB3	1:D:426:LEU:HD12	1.80	0.63
1:E:353:CYS:HB2	1:E:363:CYS:O	1.98	0.63
1:A:515:HIS:CD2	1:A:517:VAL:H	2.16	0.63
1:F:336:THR:O	1:F:337:ILE:HD12	1.99	0.63
1:B:155:ARG:HH21	1:B:165:LEU:HD22	1.64	0.63
1:B:201:ILE:HD13	1:B:212:LEU:HA	1.80	0.63
1:C:349:MET:HB3	1:C:366:VAL:O	1.98	0.63
1:E:605:VAL:HG11	1:E:665:LYS:HB3	1.81	0.63
1:H:324:SER:HB3	1:H:325:ARG:HE	1.64	0.63
1:H:298:PHE:HE2	1:H:457:ASP:HB3	1.62	0.63
1:D:256:ILE:HD11	1:D:349:MET:HE1	1.81	0.63
1:D:351:GLY:O	1:D:364:ARG:HD3	1.99	0.63
1:D:353:CYS:HB2	1:D:363:CYS:O	1.99	0.63
1:D:686:LEU:HD23	1:D:699:HIS:HA	1.79	0.63
1:E:336:THR:O	1:E:337:ILE:HD12	1.99	0.63
1:A:555:PHE:CE2	1:A:593:VAL:HG23	2.34	0.63
1:B:200:VAL:HG23	1:B:213:VAL:HB	1.79	0.63
1:B:690:VAL:HG23	1:B:698:ARG:HG2	1.81	0.63
1:E:737:LEU:HD11	1:F:693:LYS:HE2	1.81	0.63
1:F:130:LYS:HE2	1:F:440:ASP:CG	2.20	0.63
1:G:191:GLN:NE2	1:G:223:SER:H	1.96	0.63
1:H:349:MET:HB2	1:H:364:ARG:CG	2.28	0.63
1:A:130:LYS:HE2	1:A:440:ASP:CG	2.19	0.63
1:A:664:GLU:OE1	1:A:667:ASP:HB2	1.99	0.63
1:B:349:MET:HB2	1:B:364:ARG:CG	2.27	0.63
1:B:446:ARG:HD2	1:B:479:PHE:CE2	2.34	0.63
1:E:359:THR:HG22	1:E:360:ASP:N	2.06	0.63
1:F:183:ARG:HH12	1:F:387:LEU:HD21	1.62	0.63
1:H:220:VAL:CG1	1:H:301:ALA:HB2	2.29	0.63
1:H:542:PHE:HB3	1:H:543:PRO:HD3	1.78	0.63
1:A:238:GLY:HA3	1:A:267:LYS:CG	2.29	0.62
1:B:256:ILE:HD11	1:B:349:MET:HE1	1.81	0.62
1:C:211:TYR:C	1:C:213:VAL:H	2.01	0.62
1:G:191:GLN:HE22	1:G:223:SER:N	1.96	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:278:GLY:H	1:H:332:ILE:CG2	2.12	0.62
1:A:156:GLU:HG2	1:A:157:ALA:H	1.64	0.62
1:C:654:SER:O	1:C:657:THR:HG22	1.99	0.62
1:E:324:SER:HB3	1:E:325:ARG:HE	1.63	0.62
1:E:686:LEU:HD23	1:E:699:HIS:HA	1.80	0.62
1:E:758:ASN:N	1:E:758:ASN:HD22	1.96	0.62
1:F:300:HIS:HE2	1:F:459:GLY:CA	2.12	0.62
1:G:256:ILE:HD11	1:G:349:MET:HE1	1.81	0.62
1:B:625:LEU:CD2	1:B:639:LEU:HD11	2.28	0.62
1:D:201:ILE:HD13	1:D:212:LEU:CA	2.24	0.62
1:E:167:LEU:CD2	1:E:183:ARG:HH22	2.11	0.62
1:F:140:PHE:O	1:F:144:ILE:HG13	1.99	0.62
1:F:305:THR:HG23	1:F:464:THR:HG21	1.79	0.62
1:G:540:ALA:O	1:G:543:PRO:HD2	2.00	0.62
1:G:686:LEU:HD23	1:G:699:HIS:CA	2.29	0.62
1:A:191:GLN:NE2	1:A:223:SER:H	1.97	0.62
1:A:446:ARG:HD2	1:A:479:PHE:CE2	2.34	0.62
1:D:229:THR:HB	1:D:374:LYS:HG3	1.80	0.62
1:D:130:LYS:HE2	1:D:440:ASP:CG	2.20	0.62
1:E:407:ALA:HB3	1:E:426:LEU:HD12	1.81	0.62
1:H:324:SER:CB	1:H:325:ARG:HE	2.13	0.62
1:H:664:GLU:CD	1:H:664:GLU:H	2.03	0.62
1:C:515:HIS:CD2	1:C:517:VAL:H	2.17	0.62
1:D:238:GLY:H	1:D:257:VAL:HB	1.65	0.62
1:G:240:LYS:C	1:G:242:ASP:H	2.03	0.62
1:G:664:GLU:OE1	1:G:667:ASP:HB2	1.99	0.62
1:B:488:VAL:O	1:B:489:LEU:HD12	1.98	0.62
1:D:238:GLY:O	1:D:240:LYS:N	2.32	0.62
1:D:278:GLY:H	1:D:332:ILE:CG2	2.12	0.62
1:E:655:ARG:NH1	1:E:751:GLY:HA2	2.14	0.62
1:F:155:ARG:HH21	1:F:165:LEU:HD22	1.64	0.62
1:F:655:ARG:NH1	1:F:751:GLY:HA2	2.13	0.62
1:H:155:ARG:HH21	1:H:165:LEU:HD22	1.65	0.62
1:H:306:GLY:HA2	1:H:461:VAL:CA	2.28	0.62
1:A:278:GLY:H	1:A:332:ILE:CG2	2.12	0.62
1:A:506:ILE:O	1:A:510:MET:HG3	2.00	0.62
1:B:191:GLN:HE22	1:B:223:SER:N	1.98	0.62
1:B:238:GLY:O	1:B:240:LYS:N	2.31	0.62
1:D:513:VAL:HG21	1:D:593:VAL:HG12	1.81	0.62
1:E:220:VAL:CG1	1:E:301:ALA:HB2	2.30	0.62
1:F:625:LEU:CD2	1:F:639:LEU:HD11	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:655:ARG:NH1	1:H:751:GLY:HA2	2.14	0.62
1:A:349:MET:HB2	1:A:364:ARG:CG	2.27	0.62
1:A:539:ASN:HD22	1:A:540:ALA:N	1.97	0.62
1:C:664:GLU:OE1	1:C:667:ASP:HB2	1.99	0.62
1:C:756:ILE:HG22	1:C:756:ILE:O	1.99	0.62
1:D:307:ASP:HB3	1:D:465:GLU:OE1	1.99	0.62
1:D:490:GLY:HA3	1:D:559:GLU:HG2	1.81	0.62
1:E:155:ARG:HH21	1:E:165:LEU:HD22	1.65	0.62
1:F:167:LEU:HD22	1:F:183:ARG:HH22	1.64	0.62
1:F:295:LEU:HD21	1:F:568:THR:HG21	1.81	0.62
1:H:280:LEU:HD12	1:H:337:ILE:CD1	2.29	0.62
1:A:349:MET:HB3	1:A:366:VAL:O	1.99	0.62
1:C:407:ALA:HB3	1:C:426:LEU:HD12	1.82	0.62
1:D:349:MET:HA	1:D:367:THR:HA	1.82	0.62
1:D:719:ARG:HD3	1:D:726:PHE:CD2	2.34	0.62
1:F:188:VAL:HG21	1:F:461:VAL:HG11	1.80	0.62
1:F:240:LYS:C	1:F:242:ASP:H	2.03	0.62
1:G:280:LEU:HD12	1:G:337:ILE:CD1	2.29	0.62
1:G:490:GLY:HA3	1:G:559:GLU:HG2	1.80	0.62
1:A:229:THR:HB	1:A:374:LYS:CB	2.30	0.62
1:C:130:LYS:O	1:C:134:LYS:HG2	2.00	0.62
1:C:238:GLY:C	1:C:240:LYS:H	2.02	0.62
1:C:169:VAL:HG13	1:C:427:LEU:HD21	1.82	0.62
1:D:349:MET:HB3	1:D:366:VAL:O	2.00	0.62
1:F:131:LEU:O	1:F:135:LEU:HD23	2.00	0.62
1:F:238:GLY:C	1:F:240:LYS:H	2.02	0.62
1:G:229:THR:HB	1:G:374:LYS:CB	2.30	0.62
1:C:240:LYS:C	1:C:242:ASP:H	2.04	0.61
1:E:140:PHE:O	1:E:144:ILE:HG13	1.99	0.61
1:F:156:GLU:HG2	1:F:157:ALA:H	1.64	0.61
1:H:167:LEU:HD22	1:H:183:ARG:HH22	1.64	0.61
1:H:204:ASP:OD1	1:H:371:LYS:HA	1.99	0.61
1:H:349:MET:HA	1:H:367:THR:HA	1.82	0.61
1:A:238:GLY:H	1:A:257:VAL:HB	1.65	0.61
1:B:531:LYS:HE3	1:C:527:ASN:HD21	1.63	0.61
1:D:131:LEU:O	1:D:135:LEU:HD23	1.98	0.61
1:D:204:ASP:C	1:D:206:ASN:H	2.03	0.61
1:D:210:VAL:HG22	1:D:211:TYR:H	1.63	0.61
1:D:425:LEU:O	1:D:429:LEU:HB2	2.00	0.61
1:E:349:MET:HB2	1:E:364:ARG:CG	2.29	0.61
1:H:337:ILE:HG23	1:H:341:ALA:HB3	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:488:VAL:C	1:H:489:LEU:HD12	2.21	0.61
1:A:139:ASP:OD1	1:A:141:THR:HG22	2.01	0.61
1:B:324:SER:HB3	1:B:325:ARG:HE	1.64	0.61
1:C:626:ASN:HB3	1:C:629:ARG:HH21	1.64	0.61
1:D:337:ILE:HG23	1:D:341:ALA:HB3	1.81	0.61
1:H:426:LEU:CD2	1:H:450:PHE:HB3	2.28	0.61
1:A:349:MET:HA	1:A:367:THR:HA	1.83	0.61
1:B:188:VAL:HG21	1:B:461:VAL:HG11	1.82	0.61
1:B:238:GLY:C	1:B:240:LYS:H	2.03	0.61
1:B:708:THR:CG2	1:B:710:PRO:HD2	2.28	0.61
1:C:313:PHE:O	1:C:468:GLU:OE1	2.19	0.61
1:G:152:TYR:HA	1:G:161:LYS:HE2	1.81	0.61
1:A:210:VAL:HG13	1:A:211:TYR:O	2.01	0.61
1:B:348:ASN:HD22	1:B:348:ASN:N	1.97	0.61
1:B:515:HIS:CD2	1:B:517:VAL:H	2.18	0.61
1:B:664:GLU:OE1	1:B:667:ASP:HB2	1.99	0.61
1:E:488:VAL:C	1:E:489:LEU:HD12	2.21	0.61
1:D:612:GLU:OE1	1:E:619:LEU:HD13	2.00	0.61
1:G:625:LEU:HD21	1:G:639:LEU:HD11	1.82	0.61
1:A:605:VAL:HG11	1:A:665:LYS:HB3	1.83	0.61
1:B:152:TYR:HA	1:B:161:LYS:HE2	1.81	0.61
1:B:167:LEU:CD2	1:B:183:ARG:HH22	2.12	0.61
1:D:651:ARG:NH2	1:E:658:THR:HG21	2.16	0.61
1:E:278:GLY:HA2	1:E:333:PRO:O	2.01	0.61
1:A:191:GLN:HE22	1:A:223:SER:N	1.98	0.61
1:A:690:VAL:HG23	1:A:698:ARG:HG2	1.82	0.61
1:G:194:ASP:HB3	1:G:378:SER:O	2.00	0.61
1:G:555:PHE:CE2	1:G:593:VAL:HG23	2.36	0.61
1:H:618:LEU:HD11	1:H:742:ILE:HD13	1.82	0.61
1:A:236:ASN:OD1	1:A:258:ARG:HD3	2.00	0.61
1:A:446:ARG:H	1:A:602:THR:CG2	2.13	0.61
1:B:490:GLY:HA3	1:B:559:GLU:HG2	1.82	0.61
1:B:686:LEU:HD23	1:B:699:HIS:HA	1.82	0.61
1:D:229:THR:HB	1:D:374:LYS:CG	2.30	0.61
1:E:139:ASP:OD1	1:E:141:THR:HG22	2.00	0.61
1:E:188:VAL:HG21	1:E:461:VAL:HG11	1.81	0.61
1:F:232:LEU:HD21	1:F:256:ILE:HD11	1.81	0.61
1:F:488:VAL:HG13	1:F:586:VAL:HG11	1.82	0.61
1:H:758:ASN:HD22	1:H:758:ASN:H	1.49	0.61
1:B:156:GLU:HG2	1:B:157:ALA:H	1.64	0.61
1:B:280:LEU:HD12	1:B:337:ILE:CD1	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:654:SER:O	1:B:657:THR:HG22	2.01	0.61
1:C:740:TRP:CZ2	1:D:314:PRO:HB2	2.35	0.61
1:D:539:ASN:HD22	1:D:540:ALA:N	1.99	0.61
1:E:240:LYS:C	1:E:242:ASP:H	2.03	0.61
1:E:268:VAL:HG21	1:E:334:VAL:HG21	1.83	0.61
1:G:664:GLU:C	1:G:666:THR:H	2.03	0.61
1:H:130:LYS:HE2	1:H:440:ASP:CG	2.21	0.61
1:H:555:PHE:CE2	1:H:593:VAL:HG23	2.36	0.61
1:A:655:ARG:NH1	1:A:751:GLY:HA2	2.16	0.61
1:B:240:LYS:C	1:B:242:ASP:H	2.04	0.61
1:B:236:ASN:OD1	1:B:258:ARG:HD3	2.00	0.61
1:C:183:ARG:HH12	1:C:387:LEU:HD21	1.66	0.61
1:D:183:ARG:HH12	1:D:387:LEU:HD21	1.64	0.61
1:E:229:THR:HB	1:E:374:LYS:CB	2.30	0.61
1:G:349:MET:HA	1:G:367:THR:HA	1.83	0.61
1:G:353:CYS:HB2	1:G:363:CYS:O	2.01	0.61
1:G:686:LEU:HD23	1:G:699:HIS:HA	1.81	0.61
1:A:336:THR:O	1:A:337:ILE:HD12	2.01	0.60
1:A:313:PHE:O	1:A:468:GLU:OE1	2.18	0.60
1:B:131:LEU:O	1:B:135:LEU:HD23	2.00	0.60
1:C:686:LEU:HD23	1:C:699:HIS:CA	2.31	0.60
1:D:446:ARG:H	1:D:602:THR:HG23	1.66	0.60
1:E:542:PHE:HB3	1:E:543:PRO:HD3	1.81	0.60
1:F:220:VAL:CG1	1:F:301:ALA:HB2	2.31	0.60
1:F:278:GLY:HA2	1:F:333:PRO:O	2.01	0.60
1:F:313:PHE:O	1:F:468:GLU:OE1	2.19	0.60
1:G:237:PHE:HB2	1:G:243:PHE:HE1	1.66	0.60
1:G:446:ARG:H	1:G:602:THR:CG2	2.14	0.60
1:H:348:ASN:HD22	1:H:348:ASN:N	1.98	0.60
1:H:664:GLU:OE1	1:H:667:ASP:HB2	2.01	0.60
1:A:204:ASP:C	1:A:206:ASN:H	2.02	0.60
1:A:368:SER:OG	1:A:371:LYS:HE2	2.01	0.60
1:A:307:ASP:HB3	1:A:465:GLU:OE1	2.01	0.60
1:D:488:VAL:O	1:D:489:LEU:HD12	2.00	0.60
1:G:471:LEU:HD13	1:G:547:TYR:OH	2.02	0.60
1:H:238:GLY:H	1:H:257:VAL:HB	1.66	0.60
1:A:220:VAL:HG12	1:A:301:ALA:HB2	1.83	0.60
1:C:278:GLY:HA2	1:C:333:PRO:O	2.01	0.60
1:D:295:LEU:HD21	1:D:568:THR:HG21	1.82	0.60
1:D:625:LEU:HD21	1:D:639:LEU:HD11	1.82	0.60
1:F:349:MET:HB2	1:F:364:ARG:CG	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:368:SER:OG	1:G:371:LYS:HE2	2.02	0.60
1:G:488:VAL:O	1:G:489:LEU:HD12	2.00	0.60
1:H:349:MET:HB3	1:H:366:VAL:O	2.00	0.60
1:B:278:GLY:HA2	1:B:333:PRO:O	2.00	0.60
1:E:646:ARG:NH1	1:E:646:ARG:HG2	2.13	0.60
1:F:194:ASP:HB3	1:F:378:SER:O	2.01	0.60
1:F:201:ILE:HD13	1:F:212:LEU:CA	2.13	0.60
1:F:426:LEU:CD2	1:F:450:PHE:HB3	2.29	0.60
1:F:506:ILE:O	1:F:510:MET:HG3	2.01	0.60
1:G:220:VAL:HG12	1:G:301:ALA:HB2	1.83	0.60
1:G:238:GLY:O	1:G:240:LYS:N	2.33	0.60
1:D:349:MET:HB2	1:D:364:ARG:CG	2.31	0.60
1:D:655:ARG:NH1	1:D:751:GLY:HA2	2.15	0.60
1:E:568:THR:HG23	1:E:570:MET:H	1.66	0.60
1:F:150:ASN:HA	1:F:153:VAL:CG1	2.30	0.60
1:H:341:ALA:O	1:H:345:LEU:HD23	2.00	0.60
1:H:194:ASP:HB3	1:H:378:SER:O	2.01	0.60
1:B:246:LEU:HD12	1:B:247:TYR:N	2.16	0.60
1:B:310:THR:OG1	1:B:465:GLU:OE2	2.20	0.60
1:B:194:ASP:HB3	1:B:378:SER:O	2.00	0.60
1:B:403:VAL:HG22	1:B:479:PHE:CZ	2.37	0.60
1:D:156:GLU:HG2	1:D:157:ALA:H	1.66	0.60
1:D:403:VAL:HG22	1:D:479:PHE:CZ	2.37	0.60
1:D:758:ASN:HD22	1:D:758:ASN:H	1.50	0.60
1:F:508:LYS:HE2	1:G:620:SER:OG	2.02	0.60
1:G:348:ASN:HD22	1:G:348:ASN:N	1.99	0.60
1:H:353:CYS:HB2	1:H:363:CYS:O	2.02	0.60
1:A:238:GLY:C	1:A:240:LYS:H	2.04	0.60
1:B:349:MET:HA	1:B:367:THR:HA	1.84	0.60
1:B:368:SER:OG	1:B:371:LYS:HE2	2.01	0.60
1:C:220:VAL:CG1	1:C:301:ALA:HB2	2.32	0.60
1:C:295:LEU:HD11	1:C:568:THR:OG1	2.01	0.60
1:D:300:HIS:HE2	1:D:459:GLY:CA	2.15	0.60
1:D:719:ARG:HH11	1:D:719:ARG:HG3	1.65	0.60
1:G:236:ASN:OD1	1:G:258:ARG:HD3	2.02	0.60
1:A:220:VAL:CG1	1:A:301:ALA:HB2	2.31	0.60
1:B:167:LEU:HD22	1:B:183:ARG:NH2	2.17	0.60
1:B:426:LEU:CD2	1:B:450:PHE:HB3	2.31	0.60
1:C:220:VAL:HG21	1:C:334:VAL:HG12	1.82	0.60
1:C:446:ARG:HD2	1:C:479:PHE:CE2	2.37	0.60
1:E:238:GLY:C	1:E:240:LYS:H	2.04	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:680:ARG:HB3	1:F:684:HIS:HD2	1.66	0.60
1:G:278:GLY:H	1:G:332:ILE:CG2	2.14	0.60
1:H:540:ALA:O	1:H:543:PRO:HD2	2.02	0.60
1:C:403:VAL:HG22	1:C:479:PHE:CZ	2.37	0.60
1:D:188:VAL:HG22	1:D:386:ILE:HD11	1.82	0.60
1:F:236:ASN:OD1	1:F:258:ARG:HD3	2.02	0.60
1:G:515:HIS:CD2	1:G:517:VAL:H	2.18	0.60
1:H:135:LEU:HD22	1:H:432:MET:SD	2.42	0.60
1:H:156:GLU:HG2	1:H:157:ALA:H	1.65	0.60
1:A:348:ASN:N	1:A:348:ASN:HD22	2.00	0.60
1:B:324:SER:CB	1:B:325:ARG:HE	2.15	0.60
1:C:664:GLU:H	1:C:664:GLU:CD	2.05	0.60
1:E:349:MET:HA	1:E:367:THR:HA	1.84	0.60
1:F:345:LEU:O	1:F:349:MET:HG3	2.02	0.60
1:F:758:ASN:HD22	1:F:758:ASN:H	1.49	0.60
1:G:202:ILE:H	1:G:213:VAL:CG2	2.15	0.60
1:G:305:THR:HG23	1:G:464:THR:HG21	1.83	0.60
1:B:588:ARG:HH11	1:B:588:ARG:HG3	1.67	0.59
1:C:539:ASN:HD22	1:C:540:ALA:N	2.00	0.59
1:D:167:LEU:CD2	1:D:183:ARG:HH22	2.14	0.59
1:E:664:GLU:C	1:E:666:THR:H	2.04	0.59
1:F:716:LEU:HD13	1:F:731:PHE:CE1	2.37	0.59
1:G:139:ASP:OD1	1:G:141:THR:HG22	2.02	0.59
1:H:139:ASP:OD1	1:H:141:THR:HG22	2.01	0.59
1:A:758:ASN:HD22	1:A:758:ASN:H	1.50	0.59
1:D:150:ASN:HA	1:D:153:VAL:CG1	2.30	0.59
1:D:442:PHE:CE2	1:D:444:PRO:HG3	2.37	0.59
1:D:716:LEU:HD13	1:D:731:PHE:CE1	2.37	0.59
1:E:130:LYS:O	1:E:134:LYS:HG2	2.02	0.59
1:E:191:GLN:HE22	1:E:223:SER:N	1.99	0.59
1:F:488:VAL:C	1:F:489:LEU:HD12	2.23	0.59
1:F:664:GLU:C	1:F:666:THR:H	2.05	0.59
1:G:167:LEU:HD22	1:G:183:ARG:HH22	1.66	0.59
1:H:588:ARG:HH11	1:H:588:ARG:HG3	1.66	0.59
1:H:686:LEU:HD23	1:H:699:HIS:HA	1.83	0.59
1:A:131:LEU:O	1:A:135:LEU:HD23	2.01	0.59
1:B:295:LEU:HD11	1:B:568:THR:OG1	2.01	0.59
1:B:655:ARG:NH1	1:B:751:GLY:HA2	2.18	0.59
1:D:237:PHE:HB2	1:D:243:PHE:HE1	1.66	0.59
1:E:278:GLY:H	1:E:332:ILE:CG2	2.14	0.59
1:E:337:ILE:HG23	1:E:341:ALA:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:152:TYR:HA	1:F:161:LYS:HE2	1.83	0.59
1:F:349:MET:HA	1:F:367:THR:HA	1.84	0.59
1:G:220:VAL:CG1	1:G:301:ALA:HB2	2.31	0.59
1:G:403:VAL:HG22	1:G:479:PHE:CZ	2.37	0.59
1:G:506:ILE:O	1:G:510:MET:HG3	2.02	0.59
1:B:646:ARG:NH1	1:B:646:ARG:HG2	2.11	0.59
1:F:237:PHE:HB2	1:F:243:PHE:HE1	1.68	0.59
1:H:513:VAL:HG21	1:H:593:VAL:HG12	1.83	0.59
1:B:214:GLU:O	1:B:216:PRO:HD3	2.03	0.59
1:D:664:GLU:C	1:D:666:THR:H	2.06	0.59
1:E:167:LEU:HD22	1:E:183:ARG:NH2	2.17	0.59
1:F:167:LEU:CD2	1:F:183:ARG:HH22	2.14	0.59
1:F:324:SER:CB	1:F:325:ARG:HE	2.15	0.59
1:F:488:VAL:O	1:F:489:LEU:HD12	2.01	0.59
1:F:527:ASN:ND2	1:G:531:LYS:HE3	2.18	0.59
1:G:238:GLY:C	1:G:240:LYS:H	2.06	0.59
1:G:298:PHE:HB2	1:G:412:TRP:CD2	2.37	0.59
1:H:345:LEU:O	1:H:349:MET:HG3	2.02	0.59
1:B:488:VAL:C	1:B:489:LEU:HD12	2.22	0.59
1:C:238:GLY:H	1:C:257:VAL:HB	1.68	0.59
1:C:426:LEU:CD2	1:C:450:PHE:HB3	2.31	0.59
1:E:300:HIS:HE2	1:E:459:GLY:CA	2.16	0.59
1:F:553:VAL:HG22	1:F:554:SER:N	2.18	0.59
1:A:209:LEU:HG	1:A:210:VAL:N	2.11	0.59
1:A:298:PHE:HB2	1:A:412:TRP:CD2	2.38	0.59
1:C:140:PHE:O	1:C:144:ILE:HG13	2.02	0.59
1:C:300:HIS:HE2	1:C:459:GLY:N	2.01	0.59
1:C:646:ARG:NH1	1:C:646:ARG:HG2	2.12	0.59
1:D:646:ARG:NH1	1:D:646:ARG:HG2	2.13	0.59
1:F:528:TRP:CZ3	1:G:500:PRO:HB3	2.37	0.59
1:G:345:LEU:O	1:G:349:MET:HG3	2.02	0.59
1:G:709:LEU:HB3	1:G:710:PRO:HD3	1.84	0.59
1:G:758:ASN:H	1:G:758:ASN:HD22	1.51	0.59
1:A:167:LEU:CD2	1:A:183:ARG:HH22	2.14	0.59
1:A:237:PHE:CD2	1:A:258:ARG:HB2	2.38	0.59
1:A:699:HIS:HD2	1:A:702:TRP:H	1.51	0.59
1:B:237:PHE:HB2	1:B:243:PHE:HE1	1.67	0.59
1:B:278:GLY:H	1:B:332:ILE:CG2	2.16	0.59
1:E:214:GLU:OE2	1:E:216:PRO:HA	2.03	0.59
1:F:709:LEU:HB3	1:F:710:PRO:HD3	1.84	0.59
1:F:620:SER:OG	1:G:508:LYS:HE2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:756:ILE:O	1:H:756:ILE:HG22	2.03	0.59
1:A:314:PRO:HB2	1:B:740:TRP:CZ2	2.37	0.59
1:C:156:GLU:HG2	1:C:157:ALA:H	1.67	0.59
1:C:553:VAL:HG22	1:C:554:SER:N	2.18	0.59
1:E:588:ARG:HH11	1:E:588:ARG:HG3	1.66	0.59
1:F:618:LEU:HD21	1:F:742:ILE:HG23	1.85	0.59
1:G:156:GLU:HG2	1:G:157:ALA:N	2.17	0.59
1:H:203:VAL:HG23	1:H:206:ASN:C	2.23	0.59
1:A:625:LEU:CD2	1:A:639:LEU:HD11	2.33	0.59
1:B:130:LYS:HE2	1:B:440:ASP:CG	2.23	0.59
1:C:555:PHE:CE2	1:C:593:VAL:HG23	2.37	0.59
1:C:588:ARG:HH11	1:C:588:ARG:HG3	1.68	0.59
1:D:498:ALA:HB2	1:D:553:VAL:HA	1.85	0.59
1:E:307:ASP:HB3	1:E:465:GLU:OE1	2.03	0.59
1:G:349:MET:HB2	1:G:364:ARG:CG	2.32	0.59
1:F:240:LYS:NZ	1:G:520:GLN:NE2	2.51	0.59
1:G:655:ARG:NH1	1:G:751:GLY:HA2	2.18	0.59
1:B:130:LYS:O	1:B:134:LYS:HG2	2.02	0.58
1:C:690:VAL:HG23	1:C:698:ARG:HG2	1.85	0.58
1:C:758:ASN:HD22	1:C:758:ASN:H	1.51	0.58
1:D:194:ASP:HB3	1:D:378:SER:O	2.02	0.58
1:D:699:HIS:HD2	1:D:702:TRP:H	1.51	0.58
1:G:359:THR:HG22	1:G:360:ASP:N	2.07	0.58
1:G:539:ASN:HD22	1:G:540:ALA:N	2.01	0.58
1:G:690:VAL:HG23	1:G:698:ARG:HG2	1.85	0.58
1:H:152:TYR:HA	1:H:161:LYS:HE2	1.84	0.58
1:H:278:GLY:HA2	1:H:333:PRO:O	2.03	0.58
1:A:324:SER:HB3	1:A:325:ARG:HE	1.68	0.58
1:A:345:LEU:O	1:A:349:MET:HG3	2.03	0.58
1:B:528:TRP:HE1	1:C:532:VAL:HG12	1.68	0.58
1:C:220:VAL:HG12	1:C:301:ALA:HB2	1.85	0.58
1:C:349:MET:HB2	1:C:364:ARG:CG	2.32	0.58
1:C:229:THR:HB	1:C:374:LYS:HG3	1.84	0.58
1:D:324:SER:CB	1:D:325:ARG:HE	2.16	0.58
1:E:190:ILE:HG13	1:E:458:PHE:CD2	2.38	0.58
1:E:716:LEU:HD13	1:E:731:PHE:CE1	2.38	0.58
1:H:130:LYS:O	1:H:134:LYS:HG2	2.02	0.58
1:H:238:GLY:O	1:H:240:LYS:N	2.34	0.58
1:H:300:HIS:O	1:H:301:ALA:HB3	2.03	0.58
1:H:229:THR:HB	1:H:374:LYS:CB	2.32	0.58
1:A:152:TYR:HA	1:A:161:LYS:HE2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:280:LEU:HD12	1:A:337:ILE:CD1	2.33	0.58
1:A:300:HIS:O	1:A:301:ALA:HB3	2.02	0.58
1:A:515:HIS:CD2	1:A:516:PRO:HD2	2.38	0.58
1:B:442:PHE:CE2	1:B:444:PRO:HG3	2.38	0.58
1:D:300:HIS:O	1:D:301:ALA:HB3	2.04	0.58
1:D:348:ASN:N	1:D:348:ASN:HD22	2.01	0.58
1:D:520:GLN:HE22	1:E:240:LYS:NZ	2.02	0.58
1:E:191:GLN:NE2	1:E:223:SER:H	2.00	0.58
1:E:324:SER:CB	1:E:325:ARG:HE	2.17	0.58
1:E:515:HIS:CD2	1:E:517:VAL:H	2.19	0.58
1:F:139:ASP:OD1	1:F:141:THR:HG22	2.03	0.58
1:F:191:GLN:NE2	1:F:223:SER:H	2.01	0.58
1:H:646:ARG:HG2	1:H:646:ARG:NH1	2.17	0.58
1:H:667:ASP:HB3	1:H:670:VAL:CG2	2.32	0.58
1:C:236:ASN:HB2	1:C:357:TRP:CD1	2.38	0.58
1:C:442:PHE:CE2	1:C:444:PRO:HG3	2.38	0.58
1:D:232:LEU:HB3	1:D:367:THR:CG2	2.33	0.58
1:D:238:GLY:C	1:D:240:LYS:H	2.06	0.58
1:E:553:VAL:HG22	1:E:554:SER:N	2.17	0.58
1:G:232:LEU:HD11	1:G:256:ILE:HG13	1.85	0.58
1:G:232:LEU:HB3	1:G:367:THR:CG2	2.34	0.58
1:G:537:LEU:HD22	1:G:542:PHE:CE2	2.37	0.58
1:A:307:ASP:H	1:A:461:VAL:HG13	1.68	0.58
1:C:229:THR:HB	1:C:374:LYS:CG	2.33	0.58
1:E:246:LEU:HD12	1:E:247:TYR:N	2.18	0.58
1:H:307:ASP:HB3	1:H:465:GLU:OE1	2.02	0.58
1:C:232:LEU:HB3	1:C:367:THR:CG2	2.32	0.58
1:C:686:LEU:HD23	1:C:699:HIS:HA	1.84	0.58
1:D:618:LEU:HD13	1:D:701:PHE:HZ	1.67	0.58
1:E:348:ASN:N	1:E:348:ASN:HD22	2.00	0.58
1:F:508:LYS:NZ	1:G:624:ASP:HB2	2.18	0.58
1:G:719:ARG:HD3	1:G:726:PHE:CD2	2.38	0.58
1:H:336:THR:O	1:H:337:ILE:HD12	2.04	0.58
1:A:446:ARG:H	1:A:602:THR:HG23	1.68	0.58
1:C:655:ARG:NH1	1:C:751:GLY:HA2	2.18	0.58
1:D:220:VAL:HG12	1:D:301:ALA:HB2	1.84	0.58
1:F:156:GLU:HG2	1:F:157:ALA:N	2.18	0.58
1:F:278:GLY:H	1:F:332:ILE:CG2	2.17	0.58
1:F:537:LEU:HD22	1:F:542:PHE:CE2	2.38	0.58
1:H:236:ASN:OD1	1:H:258:ARG:HD3	2.03	0.58
1:E:203:VAL:HB	1:E:209:LEU:H	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:756:ILE:O	1:E:756:ILE:HG22	2.03	0.58
1:F:229:THR:HB	1:F:374:LYS:CB	2.34	0.58
1:F:686:LEU:HD23	1:F:699:HIS:CA	2.34	0.58
1:G:237:PHE:CD2	1:G:258:ARG:HB2	2.38	0.58
1:G:752:ASP:O	1:G:753:VAL:HB	2.03	0.58
1:H:264:PHE:CE2	1:H:281:ILE:HG21	2.39	0.58
1:H:446:ARG:H	1:H:602:THR:HG23	1.68	0.58
1:B:220:VAL:HG12	1:B:301:ALA:HB2	1.85	0.58
1:D:201:ILE:CD1	1:D:212:LEU:HA	2.26	0.58
1:F:359:THR:HG22	1:F:360:ASP:N	2.07	0.58
1:F:749:LEU:O	1:F:750:SER:CB	2.51	0.58
1:G:306:GLY:HA2	1:G:461:VAL:CA	2.31	0.58
1:G:307:ASP:H	1:G:461:VAL:HG13	1.67	0.58
1:G:676:ASP:O	1:G:680:ARG:HG3	2.04	0.58
1:H:496:VAL:CG1	1:H:506:ILE:HD13	2.33	0.58
1:B:238:GLY:O	1:B:262:ILE:HD11	2.04	0.58
1:B:268:VAL:HG21	1:B:334:VAL:HG21	1.86	0.58
1:B:758:ASN:H	1:B:758:ASN:HD22	1.52	0.58
1:C:194:ASP:HB3	1:C:378:SER:O	2.04	0.58
1:G:324:SER:HB3	1:G:325:ARG:HE	1.67	0.58
1:G:336:THR:O	1:G:337:ILE:HD12	2.04	0.58
1:H:167:LEU:CD2	1:H:183:ARG:HH22	2.17	0.58
1:H:305:THR:HG23	1:H:464:THR:HG21	1.86	0.58
1:A:202:ILE:HB	1:A:210:VAL:HG11	1.86	0.57
1:A:719:ARG:HH11	1:A:719:ARG:HG3	1.68	0.57
1:D:232:LEU:HD11	1:D:256:ILE:HG13	1.86	0.57
1:E:156:GLU:HG2	1:E:157:ALA:H	1.68	0.57
1:E:197:GLN:HE21	1:E:215:ASN:HB3	1.68	0.57
1:E:339:ARG:O	1:E:343:GLU:HG2	2.05	0.57
1:E:709:LEU:HB3	1:E:710:PRO:HD3	1.85	0.57
1:G:398:GLU:N	1:G:399:PRO:HD3	2.19	0.57
1:F:528:TRP:CH2	1:G:500:PRO:HB3	2.38	0.57
1:G:553:VAL:HG22	1:G:554:SER:N	2.19	0.57
1:G:446:ARG:H	1:G:602:THR:HG23	1.69	0.57
1:H:197:GLN:HE21	1:H:215:ASN:HB3	1.69	0.57
1:B:239:THR:C	1:B:241:LYS:H	2.08	0.57
1:B:345:LEU:O	1:B:349:MET:HG3	2.05	0.57
1:B:555:PHE:CE2	1:B:593:VAL:HG23	2.39	0.57
1:B:756:ILE:O	1:B:756:ILE:HG22	2.04	0.57
1:C:348:ASN:N	1:C:348:ASN:HD22	2.01	0.57
1:C:488:VAL:C	1:C:489:LEU:HD12	2.25	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:156:GLU:HG2	1:D:157:ALA:N	2.19	0.57
1:C:200:VAL:O	1:C:212:LEU:O	2.22	0.57
1:C:349:MET:HA	1:C:367:THR:HA	1.86	0.57
1:E:446:ARG:H	1:E:602:THR:HG23	1.69	0.57
1:F:686:LEU:HD23	1:F:699:HIS:HA	1.86	0.57
1:H:209:LEU:CD2	1:H:371:LYS:HG2	2.34	0.57
1:H:515:HIS:CD2	1:H:517:VAL:H	2.21	0.57
1:A:238:GLY:O	1:A:262:ILE:HD11	2.05	0.57
1:A:442:PHE:CE2	1:A:444:PRO:HG3	2.40	0.57
1:B:719:ARG:HD3	1:B:726:PHE:CD2	2.40	0.57
1:C:135:LEU:HD22	1:C:432:MET:SD	2.44	0.57
1:C:664:GLU:C	1:C:666:THR:H	2.08	0.57
1:F:539:ASN:HD22	1:F:540:ALA:N	2.02	0.57
1:G:324:SER:CB	1:G:325:ARG:HE	2.17	0.57
1:H:515:HIS:CD2	1:H:516:PRO:HD2	2.40	0.57
1:A:167:LEU:HD22	1:A:183:ARG:NH2	2.20	0.57
1:A:433:PHE:O	1:A:437:VAL:HG23	2.04	0.57
1:C:167:LEU:HD22	1:C:183:ARG:HH22	1.70	0.57
1:C:324:SER:HB3	1:C:325:ARG:HE	1.69	0.57
1:C:708:THR:CG2	1:C:710:PRO:HD2	2.33	0.57
1:D:446:ARG:HD2	1:D:479:PHE:CE2	2.40	0.57
1:F:605:VAL:HG11	1:F:665:LYS:HB3	1.87	0.57
1:G:426:LEU:CD2	1:G:450:PHE:HB3	2.32	0.57
1:H:368:SER:OG	1:H:371:LYS:HE2	2.04	0.57
1:H:553:VAL:HG22	1:H:554:SER:N	2.19	0.57
1:G:693:LYS:HE2	1:H:737:LEU:HD11	1.86	0.57
1:A:496:VAL:HG11	1:A:506:ILE:CG2	2.35	0.57
1:C:699:HIS:HD2	1:C:702:TRP:H	1.52	0.57
1:D:167:LEU:HD22	1:D:183:ARG:NH2	2.19	0.57
1:E:540:ALA:O	1:E:543:PRO:HD2	2.04	0.57
1:H:313:PHE:O	1:H:468:GLU:OE1	2.23	0.57
1:A:339:ARG:O	1:A:343:GLU:HG2	2.05	0.57
1:D:555:PHE:CE2	1:D:593:VAL:HG23	2.40	0.57
1:E:232:LEU:HB3	1:E:367:THR:CG2	2.34	0.57
1:F:368:SER:OG	1:F:371:LYS:HE2	2.04	0.57
1:H:625:LEU:CD2	1:H:639:LEU:HD11	2.34	0.57
1:A:237:PHE:HB2	1:A:243:PHE:HE1	1.69	0.57
1:A:670:VAL:O	1:A:674:LEU:HG	2.05	0.57
1:C:268:VAL:HG21	1:C:334:VAL:HG21	1.86	0.57
1:B:531:LYS:HE3	1:C:527:ASN:CG	2.25	0.57
1:E:654:SER:O	1:E:657:THR:HG22	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:740:TRP:CD2	1:F:314:PRO:HD2	2.40	0.57
1:F:398:GLU:N	1:F:399:PRO:HD3	2.19	0.57
1:F:446:ARG:H	1:F:602:THR:CG2	2.17	0.57
1:A:672:LYS:HD3	1:A:676:ASP:OD2	2.05	0.57
1:B:336:THR:O	1:B:337:ILE:HD12	2.05	0.57
1:C:278:GLY:H	1:C:332:ILE:CG2	2.16	0.57
1:C:307:ASP:H	1:C:461:VAL:HG13	1.70	0.57
1:D:752:ASP:O	1:D:753:VAL:HB	2.05	0.57
1:E:446:ARG:HD2	1:E:479:PHE:CE2	2.39	0.57
1:D:658:THR:HG21	1:E:651:ARG:NH2	2.20	0.57
1:F:353:CYS:HB2	1:F:363:CYS:O	2.05	0.57
1:G:654:SER:O	1:G:657:THR:HG22	2.03	0.57
1:H:155:ARG:HA	1:H:161:LYS:HB2	1.87	0.57
1:H:238:GLY:C	1:H:240:LYS:H	2.08	0.57
1:A:272:GLU:OE2	1:A:330:PRO:O	2.23	0.57
1:A:453:TRP:CD2	1:A:463:ALA:HB2	2.40	0.57
1:B:664:GLU:C	1:B:666:THR:H	2.07	0.57
1:E:280:LEU:HD12	1:E:337:ILE:CD1	2.33	0.57
1:E:442:PHE:CE2	1:E:444:PRO:HG3	2.40	0.57
1:G:214:GLU:O	1:G:216:PRO:HD3	2.05	0.57
1:H:238:GLY:N	1:H:257:VAL:HB	2.20	0.57
1:H:238:GLY:O	1:H:262:ILE:HD11	2.05	0.57
1:H:300:HIS:HE2	1:H:459:GLY:N	2.02	0.57
1:C:139:ASP:OD1	1:C:141:THR:HG22	2.05	0.56
1:C:272:GLU:OE2	1:C:330:PRO:O	2.22	0.56
1:D:488:VAL:C	1:D:489:LEU:HD12	2.26	0.56
1:C:183:ARG:O	1:D:758:ASN:HB2	2.05	0.56
1:E:453:TRP:CE3	1:E:463:ALA:HA	2.40	0.56
1:E:539:ASN:HD22	1:E:540:ALA:N	2.03	0.56
1:E:607:LEU:CD1	1:E:609:LEU:HG	2.34	0.56
1:F:324:SER:HB3	1:F:325:ARG:HE	1.69	0.56
1:G:190:ILE:HG13	1:G:458:PHE:CD2	2.40	0.56
1:G:238:GLY:H	1:G:257:VAL:HB	1.69	0.56
1:H:146:LEU:O	1:H:146:LEU:HD23	2.05	0.56
1:H:167:LEU:HD22	1:H:183:ARG:NH2	2.20	0.56
1:B:533:GLU:HG3	1:C:526:SER:O	2.04	0.56
1:F:756:ILE:HD12	1:F:756:ILE:H	1.69	0.56
1:G:699:HIS:HD2	1:G:702:TRP:H	1.53	0.56
1:H:539:ASN:HD22	1:H:540:ALA:N	2.03	0.56
1:H:664:GLU:C	1:H:666:THR:H	2.09	0.56
1:A:398:GLU:N	1:A:399:PRO:HD3	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:403:VAL:HG22	1:A:479:PHE:CZ	2.40	0.56
1:A:664:GLU:C	1:A:666:THR:H	2.08	0.56
1:A:756:ILE:HG22	1:A:756:ILE:O	2.05	0.56
1:C:709:LEU:HB3	1:C:710:PRO:HD3	1.86	0.56
1:C:749:LEU:O	1:C:750:SER:CB	2.52	0.56
1:F:220:VAL:HG12	1:F:301:ALA:HB2	1.86	0.56
1:F:523:TYR:HE1	1:F:530:SER:OG	1.89	0.56
1:F:555:PHE:CE2	1:F:593:VAL:HG23	2.40	0.56
1:G:203:VAL:HG23	1:G:206:ASN:O	2.05	0.56
1:G:237:PHE:CD1	1:G:261:LYS:HG3	2.40	0.56
1:G:719:ARG:HG3	1:G:719:ARG:HH11	1.70	0.56
1:H:442:PHE:CE2	1:H:444:PRO:HG3	2.40	0.56
1:H:488:VAL:HG13	1:H:586:VAL:HG11	1.87	0.56
1:H:654:SER:O	1:H:657:THR:HG22	2.06	0.56
1:A:298:PHE:HE2	1:A:457:ASP:HB3	1.70	0.56
1:A:426:LEU:CD2	1:A:450:PHE:HB3	2.34	0.56
1:A:719:ARG:HD3	1:A:726:PHE:CD2	2.41	0.56
1:A:749:LEU:O	1:A:750:SER:CB	2.53	0.56
1:B:286:THR:CG2	1:B:360:ASP:HB2	2.35	0.56
1:B:232:LEU:HB3	1:B:367:THR:CG2	2.35	0.56
1:B:496:VAL:HG11	1:B:506:ILE:CG2	2.34	0.56
1:C:213:VAL:HG11	1:C:345:LEU:HD21	1.88	0.56
1:D:130:LYS:O	1:D:134:LYS:HG2	2.06	0.56
1:D:229:THR:HB	1:D:374:LYS:CB	2.35	0.56
1:E:220:VAL:HG12	1:E:301:ALA:HB2	1.85	0.56
1:F:135:LEU:HD22	1:F:432:MET:SD	2.45	0.56
1:F:442:PHE:CE2	1:F:444:PRO:HG3	2.39	0.56
1:G:618:LEU:HD13	1:G:701:PHE:HZ	1.71	0.56
1:B:527:ASN:OD1	1:C:531:LYS:HE3	2.05	0.56
1:C:237:PHE:HB2	1:C:243:PHE:HE1	1.71	0.56
1:D:272:GLU:OE2	1:D:330:PRO:O	2.23	0.56
1:D:426:LEU:CD2	1:D:450:PHE:HB3	2.33	0.56
1:E:152:TYR:HA	1:E:161:LYS:HE2	1.86	0.56
1:G:135:LEU:HD22	1:G:432:MET:SD	2.46	0.56
1:G:588:ARG:HH11	1:G:588:ARG:HG3	1.70	0.56
1:A:264:PHE:CE2	1:A:281:ILE:HG21	2.39	0.56
1:A:324:SER:CB	1:A:325:ARG:HE	2.19	0.56
1:C:212:LEU:HD23	1:C:212:LEU:O	2.05	0.56
1:D:232:LEU:HD21	1:D:256:ILE:HD11	1.86	0.56
1:E:446:ARG:H	1:E:602:THR:CG2	2.17	0.56
1:F:654:SER:O	1:F:657:THR:HG22	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:202:ILE:HG13	1:G:213:VAL:CG2	2.35	0.56
1:G:272:GLU:OE2	1:G:330:PRO:O	2.23	0.56
1:G:607:LEU:CD1	1:G:609:LEU:HG	2.36	0.56
1:H:237:PHE:CD2	1:H:258:ARG:HB2	2.40	0.56
1:A:256:ILE:HD11	1:A:349:MET:HE1	1.86	0.56
1:A:300:HIS:HE2	1:A:459:GLY:CA	2.18	0.56
1:B:300:HIS:O	1:B:301:ALA:HB3	2.06	0.56
1:F:756:ILE:HG22	1:F:756:ILE:O	2.05	0.56
1:G:300:HIS:HE2	1:G:459:GLY:CA	2.17	0.56
1:A:238:GLY:N	1:A:257:VAL:HB	2.20	0.56
1:A:194:ASP:HB3	1:A:378:SER:O	2.05	0.56
1:C:716:LEU:HD13	1:C:731:PHE:CE1	2.40	0.56
1:C:314:PRO:HB2	1:D:740:TRP:CH2	2.40	0.56
1:E:204:ASP:OD1	1:E:205:LYS:HG2	2.04	0.56
1:F:531:LYS:HE3	1:G:527:ASN:HD21	1.71	0.56
1:G:498:ALA:HB2	1:G:553:VAL:HA	1.88	0.56
1:H:307:ASP:H	1:H:461:VAL:HG13	1.69	0.56
1:H:339:ARG:O	1:H:343:GLU:HG2	2.06	0.56
1:B:197:GLN:HE21	1:B:215:ASN:HB3	1.71	0.56
1:C:239:THR:C	1:C:241:LYS:H	2.09	0.56
1:D:238:GLY:N	1:D:257:VAL:HB	2.20	0.56
1:D:446:ARG:H	1:D:602:THR:CG2	2.18	0.56
1:E:188:VAL:HG22	1:E:386:ILE:HD11	1.87	0.56
1:F:167:LEU:HD22	1:F:183:ARG:NH2	2.20	0.56
1:F:232:LEU:HB3	1:F:367:THR:CG2	2.36	0.56
1:A:646:ARG:NH1	1:A:646:ARG:HG2	2.17	0.56
1:B:719:ARG:HG3	1:B:719:ARG:HH11	1.70	0.56
1:C:238:GLY:HA3	1:C:267:LYS:CD	2.36	0.56
1:C:398:GLU:N	1:C:399:PRO:HD3	2.20	0.56
1:D:756:ILE:O	1:D:756:ILE:HG22	2.06	0.56
1:E:237:PHE:CD2	1:E:258:ARG:HB2	2.41	0.56
1:E:398:GLU:N	1:E:399:PRO:HD3	2.20	0.56
1:D:650:PHE:CD2	1:E:657:THR:HG21	2.41	0.56
1:F:446:ARG:H	1:F:602:THR:HG23	1.71	0.56
1:G:300:HIS:O	1:G:301:ALA:HB3	2.06	0.56
1:H:272:GLU:OE2	1:H:330:PRO:O	2.23	0.56
1:H:497:SER:OG	1:H:533:GLU:HB3	2.06	0.56
1:H:654:SER:HA	1:H:657:THR:HG22	1.88	0.56
1:C:238:GLY:HA3	1:C:267:LYS:HD3	1.86	0.56
1:C:625:LEU:HD21	1:C:639:LEU:HD11	1.88	0.56
1:E:298:PHE:HE2	1:E:457:ASP:HB3	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:368:SER:OG	1:E:371:LYS:HE2	2.05	0.56
1:E:433:PHE:O	1:E:437:VAL:HG23	2.07	0.56
1:G:339:ARG:O	1:G:343:GLU:HG2	2.06	0.56
1:G:442:PHE:CE2	1:G:444:PRO:HG3	2.40	0.56
1:H:156:GLU:HG2	1:H:157:ALA:N	2.21	0.56
1:A:654:SER:HA	1:A:657:THR:HG22	1.89	0.55
1:B:237:PHE:CD2	1:B:258:ARG:HB2	2.40	0.55
1:B:272:GLU:OE2	1:B:330:PRO:O	2.23	0.55
1:B:676:ASP:O	1:B:680:ARG:HG3	2.06	0.55
1:D:191:GLN:NE2	1:D:223:SER:H	2.03	0.55
1:E:618:LEU:HD11	1:E:742:ILE:HD13	1.88	0.55
1:G:208:ARG:HD3	1:G:208:ARG:N	2.19	0.55
1:G:756:ILE:O	1:G:756:ILE:HG22	2.06	0.55
1:H:398:GLU:N	1:H:399:PRO:HD3	2.21	0.55
1:B:446:ARG:H	1:B:602:THR:HG23	1.70	0.55
1:B:618:LEU:HD11	1:B:742:ILE:HD13	1.87	0.55
1:C:307:ASP:N	1:C:461:VAL:HG13	2.21	0.55
1:D:368:SER:OG	1:D:371:LYS:HE2	2.05	0.55
1:D:690:VAL:HG23	1:D:698:ARG:HG2	1.88	0.55
1:F:191:GLN:HE22	1:F:223:SER:N	2.03	0.55
1:F:295:LEU:HD11	1:F:568:THR:OG1	2.05	0.55
1:E:740:TRP:NE1	1:F:316:PHE:CZ	2.72	0.55
1:F:453:TRP:CD2	1:F:463:ALA:HB2	2.41	0.55
1:F:654:SER:HA	1:F:657:THR:HG22	1.88	0.55
1:G:201:ILE:HA	1:G:213:VAL:HG21	1.87	0.55
1:G:222:TYR:HB3	1:G:329:LEU:HD23	1.89	0.55
1:G:188:VAL:HG22	1:G:386:ILE:HD11	1.87	0.55
1:G:749:LEU:O	1:G:750:SER:CB	2.53	0.55
1:H:210:VAL:CG2	1:H:211:TYR:H	2.01	0.55
1:B:238:GLY:H	1:B:257:VAL:HB	1.72	0.55
1:C:256:ILE:CD1	1:C:349:MET:HE1	2.36	0.55
1:D:208:ARG:HH11	1:D:208:ARG:HB3	1.71	0.55
1:D:471:LEU:HD13	1:D:547:TYR:OH	2.06	0.55
1:D:553:VAL:HG22	1:D:554:SER:N	2.21	0.55
1:E:345:LEU:O	1:E:349:MET:HG3	2.06	0.55
1:F:272:GLU:OE2	1:F:330:PRO:O	2.24	0.55
1:G:167:LEU:CD2	1:G:183:ARG:HH22	2.19	0.55
1:G:496:VAL:CG1	1:G:506:ILE:HD13	2.36	0.55
1:A:306:GLY:HA2	1:A:461:VAL:CA	2.34	0.55
1:A:607:LEU:CD1	1:A:609:LEU:HG	2.36	0.55
1:B:398:GLU:N	1:B:399:PRO:HD3	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:680:ARG:HB3	1:C:684:HIS:HD2	1.70	0.55
1:D:398:GLU:N	1:D:399:PRO:HD3	2.21	0.55
1:E:237:PHE:HB2	1:E:243:PHE:HE1	1.70	0.55
1:E:654:SER:HA	1:E:657:THR:HG22	1.88	0.55
1:E:719:ARG:HD3	1:E:726:PHE:CD2	2.41	0.55
1:G:163:GLU:O	1:G:167:LEU:HG	2.07	0.55
1:G:183:ARG:O	1:H:758:ASN:CB	2.54	0.55
1:H:131:LEU:HD22	1:H:599:ILE:HD11	1.88	0.55
1:A:232:LEU:HB3	1:A:367:THR:CG2	2.36	0.55
1:A:286:THR:CG2	1:A:360:ASP:HB2	2.36	0.55
1:B:565:TYR:CE1	1:B:575:GLU:HB3	2.41	0.55
1:C:210:VAL:O	1:C:211:TYR:HB2	2.06	0.55
1:F:618:LEU:HD11	1:F:742:ILE:HD13	1.88	0.55
1:F:756:ILE:HD12	1:F:756:ILE:N	2.21	0.55
1:G:210:VAL:HG13	1:G:211:TYR:N	2.20	0.55
1:A:156:GLU:HG2	1:A:157:ALA:N	2.22	0.55
1:A:619:LEU:HD23	1:A:620:SER:N	2.22	0.55
1:C:131:LEU:HD22	1:C:599:ILE:HD11	1.89	0.55
1:C:341:ALA:O	1:C:345:LEU:HD23	2.06	0.55
1:C:204:ASP:HB2	1:C:371:LYS:HB3	1.89	0.55
1:F:341:ALA:O	1:F:345:LEU:HD23	2.07	0.55
1:F:190:ILE:HG13	1:F:458:PHE:CD2	2.41	0.55
1:H:209:LEU:HG	1:H:210:VAL:HG12	1.88	0.55
1:H:496:VAL:HG11	1:H:506:ILE:CG2	2.36	0.55
1:H:680:ARG:HB3	1:H:684:HIS:HD2	1.70	0.55
1:B:680:ARG:HB3	1:B:684:HIS:HD2	1.70	0.55
1:B:752:ASP:O	1:B:753:VAL:HB	2.06	0.55
1:C:240:LYS:HA	1:C:262:ILE:HD13	1.87	0.55
1:D:670:VAL:O	1:D:674:LEU:HG	2.07	0.55
1:D:719:ARG:HH11	1:D:719:ARG:CG	2.20	0.55
1:G:146:LEU:O	1:G:146:LEU:HD23	2.05	0.55
1:G:347:GLY:C	1:G:348:ASN:HD22	2.10	0.55
1:B:709:LEU:HB3	1:B:710:PRO:HD3	1.88	0.55
1:C:156:GLU:HG2	1:C:157:ALA:N	2.22	0.55
1:C:607:LEU:CD1	1:C:609:LEU:HG	2.37	0.55
1:D:654:SER:O	1:D:657:THR:HG22	2.07	0.55
1:D:756:ILE:HD12	1:D:756:ILE:H	1.72	0.55
1:E:749:LEU:O	1:E:750:SER:CB	2.54	0.55
1:E:693:LYS:HE2	1:F:737:LEU:HD11	1.88	0.55
1:G:268:VAL:HG21	1:G:334:VAL:HG21	1.88	0.55
1:A:565:TYR:CE1	1:A:575:GLU:HB3	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:539:ASN:HD22	1:B:540:ALA:N	2.04	0.55
1:C:229:THR:HB	1:C:374:LYS:CB	2.37	0.55
1:D:238:GLY:HA3	1:D:267:LYS:HD3	1.89	0.55
1:E:155:ARG:HA	1:E:161:LYS:HB2	1.89	0.55
1:E:161:LYS:O	1:E:164:ASN:HB2	2.07	0.55
1:E:236:ASN:OD1	1:E:258:ARG:HD3	2.07	0.55
1:E:298:PHE:HB2	1:E:412:TRP:CD2	2.42	0.55
1:F:256:ILE:CD1	1:F:349:MET:HE1	2.36	0.55
1:F:348:ASN:HD22	1:F:348:ASN:N	2.02	0.55
1:A:471:LEU:HD13	1:A:547:TYR:OH	2.07	0.55
1:A:680:ARG:HB3	1:A:684:HIS:HD2	1.71	0.55
1:B:222:TYR:HB3	1:B:329:LEU:HD23	1.89	0.55
1:B:135:LEU:HD22	1:B:432:MET:SD	2.47	0.55
1:C:353:CYS:HB2	1:C:363:CYS:O	2.07	0.55
1:E:135:LEU:HD22	1:E:432:MET:SD	2.47	0.55
1:E:758:ASN:H	1:E:758:ASN:HD22	1.54	0.55
1:F:453:TRP:CG	1:F:463:ALA:HB2	2.42	0.55
1:F:719:ARG:HG3	1:F:719:ARG:HH11	1.72	0.55
1:G:211:TYR:CD2	1:G:212:LEU:N	2.69	0.55
1:F:527:ASN:HD21	1:G:531:LYS:HE3	1.72	0.55
1:H:188:VAL:HG21	1:H:461:VAL:HG11	1.88	0.55
1:H:204:ASP:HB2	1:H:371:LYS:CB	2.37	0.55
1:H:496:VAL:HG11	1:H:506:ILE:HD13	1.88	0.55
1:G:737:LEU:HD11	1:H:693:LYS:HE2	1.88	0.55
1:A:453:TRP:CG	1:A:463:ALA:HB2	2.41	0.54
1:B:156:GLU:HG2	1:B:157:ALA:N	2.22	0.54
1:B:756:ILE:H	1:B:756:ILE:HD12	1.72	0.54
1:C:453:TRP:CE3	1:C:463:ALA:HA	2.43	0.54
1:C:693:LYS:HE2	1:D:737:LEU:HD11	1.89	0.54
1:D:191:GLN:HE22	1:D:223:SER:N	2.04	0.54
1:D:345:LEU:O	1:D:349:MET:HG3	2.07	0.54
1:D:295:LEU:HD11	1:D:568:THR:OG1	2.07	0.54
1:E:156:GLU:HG2	1:E:157:ALA:N	2.22	0.54
1:E:183:ARG:O	1:F:758:ASN:HB2	2.07	0.54
1:E:426:LEU:CD2	1:E:450:PHE:HB3	2.29	0.54
1:E:498:ALA:HB2	1:E:553:VAL:HA	1.89	0.54
1:F:238:GLY:O	1:F:262:ILE:HD11	2.07	0.54
1:F:655:ARG:HH11	1:F:751:GLY:HA2	1.72	0.54
1:F:749:LEU:O	1:F:750:SER:HB3	2.06	0.54
1:G:188:VAL:HG21	1:G:461:VAL:HG11	1.89	0.54
1:C:152:TYR:HA	1:C:161:LYS:HE2	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:368:SER:OG	1:C:371:LYS:HE2	2.08	0.54
1:C:752:ASP:O	1:C:753:VAL:HB	2.06	0.54
1:E:555:PHE:CE2	1:E:593:VAL:HG23	2.43	0.54
1:F:268:VAL:HG21	1:F:334:VAL:HG21	1.89	0.54
1:F:280:LEU:HD12	1:F:337:ILE:CD1	2.37	0.54
1:F:680:ARG:HB3	1:F:684:HIS:CD2	2.42	0.54
1:H:188:VAL:HG22	1:H:386:ILE:HD11	1.89	0.54
1:A:239:THR:C	1:A:241:LYS:H	2.10	0.54
1:C:155:ARG:HA	1:C:161:LYS:HB2	1.90	0.54
1:C:232:LEU:HD11	1:C:256:ILE:HG13	1.89	0.54
1:C:339:ARG:O	1:C:343:GLU:HG2	2.07	0.54
1:D:238:GLY:HA3	1:D:267:LYS:CD	2.37	0.54
1:D:496:VAL:HG11	1:D:506:ILE:CG2	2.36	0.54
1:D:625:LEU:CD2	1:D:639:LEU:HD11	2.37	0.54
1:E:238:GLY:H	1:E:257:VAL:HB	1.72	0.54
1:E:625:LEU:CD2	1:E:639:LEU:HD11	2.38	0.54
1:E:719:ARG:HH11	1:E:719:ARG:HG3	1.71	0.54
1:F:130:LYS:O	1:F:134:LYS:HG2	2.08	0.54
1:G:488:VAL:HG13	1:G:586:VAL:HG11	1.89	0.54
1:A:347:GLY:C	1:A:348:ASN:HD22	2.11	0.54
1:B:190:ILE:HG13	1:B:458:PHE:CD2	2.43	0.54
1:B:446:ARG:H	1:B:602:THR:CG2	2.20	0.54
1:C:237:PHE:CD2	1:C:258:ARG:HB2	2.43	0.54
1:C:719:ARG:HG3	1:C:719:ARG:HH11	1.72	0.54
1:D:155:ARG:HH21	1:D:165:LEU:HD22	1.71	0.54
1:D:222:TYR:HB3	1:D:329:LEU:HD23	1.90	0.54
1:D:298:PHE:HE2	1:D:457:ASP:HB3	1.72	0.54
1:E:286:THR:CG2	1:E:360:ASP:HB2	2.37	0.54
1:F:236:ASN:HB2	1:F:357:TRP:CD1	2.43	0.54
1:G:409:ARG:NH2	1:G:454:SER:HB2	2.22	0.54
1:H:207:GLY:O	1:H:209:LEU:N	2.40	0.54
1:H:446:ARG:H	1:H:602:THR:CG2	2.19	0.54
1:A:295:LEU:HD11	1:A:568:THR:OG1	2.08	0.54
1:C:324:SER:CB	1:C:325:ARG:HE	2.20	0.54
1:D:409:ARG:NH2	1:D:454:SER:HB2	2.23	0.54
1:F:286:THR:CG2	1:F:360:ASP:HB2	2.36	0.54
1:G:130:LYS:O	1:G:134:LYS:HG2	2.07	0.54
1:G:278:GLY:HA2	1:G:333:PRO:O	2.07	0.54
1:H:446:ARG:HD2	1:H:479:PHE:CE2	2.43	0.54
1:A:268:VAL:HG21	1:A:334:VAL:HG21	1.87	0.54
1:B:201:ILE:HB	1:B:212:LEU:HD12	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:672:LYS:HD3	1:B:676:ASP:OD2	2.08	0.54
1:C:337:ILE:HG23	1:C:341:ALA:HB3	1.88	0.54
1:C:345:LEU:O	1:C:349:MET:HG3	2.08	0.54
1:C:312:GLY:HA2	1:C:547:TYR:OH	2.07	0.54
1:D:239:THR:C	1:D:241:LYS:H	2.10	0.54
1:D:680:ARG:HB3	1:D:684:HIS:HD2	1.72	0.54
1:G:605:VAL:HG11	1:G:665:LYS:HB3	1.90	0.54
1:H:309:TYR:HE2	1:H:325:ARG:CA	2.19	0.54
1:H:392:VAL:HG12	1:H:449:ILE:HG13	1.88	0.54
1:H:565:TYR:CE1	1:H:575:GLU:HB3	2.43	0.54
1:H:716:LEU:HD13	1:H:731:PHE:CE1	2.43	0.54
1:A:513:VAL:HG21	1:A:593:VAL:HG12	1.89	0.54
1:B:256:ILE:CD1	1:B:349:MET:HE1	2.37	0.54
1:C:759:GLU:HG3	1:C:760:PHE:N	2.22	0.54
1:F:433:PHE:O	1:F:437:VAL:HG23	2.08	0.54
1:F:465:GLU:HA	1:F:468:GLU:HB2	1.90	0.54
1:G:239:THR:C	1:G:241:LYS:H	2.10	0.54
1:H:198:ASN:OD1	1:H:378:SER:N	2.38	0.54
1:H:295:LEU:HD22	1:H:570:MET:HE1	1.90	0.54
1:B:232:LEU:HD11	1:B:256:ILE:HG13	1.90	0.54
1:C:618:LEU:HD21	1:C:742:ILE:HG23	1.90	0.54
1:D:238:GLY:O	1:D:262:ILE:HD11	2.08	0.54
1:D:278:GLY:HA2	1:D:333:PRO:O	2.07	0.54
1:E:409:ARG:HB2	1:E:452:SER:OG	2.08	0.54
1:H:347:GLY:C	1:H:348:ASN:HD22	2.11	0.54
1:A:654:SER:C	1:A:657:THR:HG22	2.28	0.54
1:B:347:GLY:C	1:B:348:ASN:HD22	2.11	0.54
1:B:580:ILE:HG23	1:B:580:ILE:O	2.08	0.54
1:B:619:LEU:HD23	1:B:620:SER:N	2.23	0.54
1:B:699:HIS:HD2	1:B:702:TRP:H	1.55	0.54
1:B:759:GLU:HG3	1:B:760:PHE:N	2.22	0.54
1:C:737:LEU:HD11	1:D:693:LYS:HE2	1.90	0.54
1:D:759:GLU:HG3	1:D:760:PHE:N	2.23	0.54
1:G:167:LEU:HD22	1:G:183:ARG:NH2	2.23	0.54
1:G:232:LEU:HD21	1:G:256:ILE:HD11	1.88	0.54
1:G:264:PHE:CE2	1:G:281:ILE:HG21	2.43	0.54
1:F:240:LYS:HZ3	1:G:520:GLN:NE2	2.04	0.54
1:H:236:ASN:HB2	1:H:357:TRP:CD1	2.42	0.54
1:A:335:GLN:NE2	1:A:336:THR:HG22	2.23	0.54
1:A:588:ARG:HH11	1:A:588:ARG:HG3	1.73	0.54
1:A:743:GLN:O	1:A:746:ALA:HB3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:749:LEU:O	1:B:750:SER:CB	2.55	0.54
1:E:496:VAL:CG1	1:E:506:ILE:HD13	2.37	0.54
1:E:523:TYR:HE1	1:E:530:SER:OG	1.91	0.54
1:E:564:PRO:HG2	1:E:565:TYR:H	1.73	0.54
1:E:708:THR:CG2	1:E:710:PRO:HD2	2.37	0.54
1:F:471:LEU:HD13	1:F:547:TYR:OH	2.08	0.54
1:G:238:GLY:N	1:G:257:VAL:HB	2.22	0.54
1:A:237:PHE:CD1	1:A:261:LYS:HG3	2.42	0.53
1:B:199:SER:CB	1:B:212:LEU:HD11	2.38	0.53
1:B:237:PHE:CD1	1:B:261:LYS:HG3	2.43	0.53
1:B:471:LEU:HD13	1:B:547:TYR:OH	2.08	0.53
1:C:146:LEU:O	1:C:146:LEU:HD23	2.08	0.53
1:C:232:LEU:HD21	1:C:256:ILE:HD11	1.90	0.53
1:C:214:GLU:OE1	1:C:341:ALA:HB2	2.07	0.53
1:D:236:ASN:HB2	1:D:357:TRP:CD1	2.44	0.53
1:D:237:PHE:CD2	1:D:258:ARG:HB2	2.43	0.53
1:D:286:THR:CG2	1:D:360:ASP:HB2	2.37	0.53
1:D:199:SER:O	1:D:376:THR:HG22	2.07	0.53
1:F:188:VAL:HG22	1:F:386:ILE:HD11	1.89	0.53
1:G:300:HIS:HE2	1:G:459:GLY:N	2.06	0.53
1:G:672:LYS:HD3	1:G:676:ASP:OD2	2.08	0.53
1:H:580:ILE:O	1:H:580:ILE:HG23	2.08	0.53
1:A:425:LEU:HD22	1:A:591:ALA:HB2	1.88	0.53
1:B:618:LEU:HD13	1:B:701:PHE:HZ	1.72	0.53
1:C:300:HIS:O	1:C:301:ALA:HB3	2.09	0.53
1:C:496:VAL:CG1	1:C:506:ILE:HD13	2.38	0.53
1:D:306:GLY:HA2	1:D:461:VAL:CA	2.33	0.53
1:D:749:LEU:O	1:D:750:SER:CB	2.55	0.53
1:E:496:VAL:HG11	1:E:506:ILE:CG2	2.38	0.53
1:E:756:ILE:H	1:E:756:ILE:HD12	1.73	0.53
1:E:759:GLU:HG3	1:E:760:PHE:N	2.23	0.53
1:F:239:THR:C	1:F:241:LYS:H	2.12	0.53
1:F:670:VAL:O	1:F:674:LEU:HG	2.09	0.53
1:G:286:THR:CG2	1:G:360:ASP:HB2	2.37	0.53
1:H:237:PHE:HB2	1:H:243:PHE:HE1	1.73	0.53
1:A:212:LEU:HD21	1:A:215:ASN:ND2	2.23	0.53
1:A:197:GLN:HE21	1:A:215:ASN:HB3	1.74	0.53
1:B:654:SER:HA	1:B:657:THR:HG22	1.90	0.53
1:C:238:GLY:N	1:C:257:VAL:HB	2.22	0.53
1:C:698:ARG:HA	1:C:707:HIS:NE2	2.23	0.53
1:E:210:VAL:HG13	1:E:211:TYR:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:588:ARG:HG3	1:F:588:ARG:HH11	1.72	0.53
1:G:203:VAL:HG22	1:G:204:ASP:O	2.07	0.53
1:H:201:ILE:HA	1:H:213:VAL:CG2	2.38	0.53
1:H:752:ASP:O	1:H:753:VAL:HB	2.06	0.53
1:B:523:TYR:HE1	1:B:530:SER:OG	1.91	0.53
1:B:513:VAL:HG21	1:B:593:VAL:HG12	1.90	0.53
1:B:756:ILE:N	1:B:756:ILE:HD12	2.24	0.53
1:D:146:LEU:O	1:D:146:LEU:HD23	2.08	0.53
1:D:163:GLU:O	1:D:167:LEU:HG	2.08	0.53
1:D:204:ASP:C	1:D:206:ASN:N	2.62	0.53
1:F:306:GLY:HA2	1:F:461:VAL:CA	2.31	0.53
1:G:237:PHE:HB2	1:G:243:PHE:CE1	2.44	0.53
1:G:311:PRO:O	1:G:693:LYS:HA	2.09	0.53
1:G:625:LEU:CD2	1:G:639:LEU:HD11	2.36	0.53
1:A:278:GLY:HA2	1:A:333:PRO:O	2.07	0.53
1:C:167:LEU:CD2	1:C:183:ARG:HH22	2.21	0.53
1:C:446:ARG:H	1:C:602:THR:HG23	1.74	0.53
1:D:515:HIS:CD2	1:D:516:PRO:HD2	2.43	0.53
1:E:752:ASP:O	1:E:753:VAL:HB	2.09	0.53
1:E:756:ILE:HD12	1:E:756:ILE:N	2.24	0.53
1:F:155:ARG:HA	1:F:161:LYS:HB2	1.90	0.53
1:F:699:HIS:HD2	1:F:702:TRP:H	1.55	0.53
1:H:232:LEU:HB3	1:H:367:THR:CG2	2.38	0.53
1:A:131:LEU:HD22	1:A:599:ILE:HD11	1.90	0.53
1:C:309:TYR:HE2	1:C:325:ARG:CA	2.21	0.53
1:D:347:GLY:C	1:D:348:ASN:HD22	2.11	0.53
1:E:305:THR:HG23	1:E:464:THR:HG21	1.90	0.53
1:E:425:LEU:O	1:E:429:LEU:HB2	2.08	0.53
1:E:625:LEU:HD21	1:E:639:LEU:HD11	1.90	0.53
1:F:300:HIS:O	1:F:301:ALA:HB3	2.09	0.53
1:H:210:VAL:HG11	1:H:348:ASN:OD1	2.08	0.53
1:A:540:ALA:O	1:A:543:PRO:HD2	2.08	0.53
1:C:515:HIS:CD2	1:C:516:PRO:HD2	2.43	0.53
1:C:498:ALA:HB2	1:C:553:VAL:HA	1.90	0.53
1:C:756:ILE:H	1:C:756:ILE:HD12	1.74	0.53
1:D:677:ARG:NE	1:D:750:SER:HB2	2.24	0.53
1:H:295:LEU:HD22	1:H:570:MET:SD	2.49	0.53
1:A:212:LEU:CD2	1:A:215:ASN:HD21	2.21	0.53
1:C:513:VAL:HG21	1:C:593:VAL:HG12	1.90	0.53
1:E:515:HIS:CD2	1:E:516:PRO:HD2	2.44	0.53
1:F:672:LYS:HD3	1:F:676:ASP:OD2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:708:THR:CG2	1:F:710:PRO:HD2	2.37	0.53
1:G:238:GLY:O	1:G:262:ILE:HD11	2.08	0.53
1:G:425:LEU:HD22	1:G:591:ALA:HB2	1.91	0.53
1:A:145:LYS:O	1:A:148:ASN:HB2	2.09	0.53
1:A:236:ASN:HB2	1:A:357:TRP:CD1	2.44	0.53
1:A:752:ASP:O	1:A:753:VAL:HB	2.09	0.53
1:B:212:LEU:O	1:B:213:VAL:C	2.47	0.53
1:C:496:VAL:HG11	1:C:506:ILE:CG2	2.38	0.53
1:E:169:VAL:HG13	1:E:427:LEU:HD21	1.91	0.53
1:E:409:ARG:NH2	1:E:454:SER:HB2	2.24	0.53
1:H:756:ILE:H	1:H:756:ILE:HD12	1.74	0.53
1:A:155:ARG:HA	1:A:161:LYS:HB2	1.90	0.53
1:A:135:LEU:HD22	1:A:432:MET:SD	2.49	0.53
1:B:311:PRO:O	1:B:693:LYS:HA	2.08	0.53
1:B:502:LEU:O	1:B:506:ILE:HG13	2.08	0.53
1:D:268:VAL:HG21	1:D:334:VAL:HG21	1.90	0.53
1:E:232:LEU:HD21	1:E:256:ILE:HD11	1.90	0.53
1:F:540:ALA:O	1:F:543:PRO:HD2	2.09	0.53
1:F:750:SER:OG	1:F:751:GLY:N	2.42	0.53
1:G:146:LEU:HD23	1:G:146:LEU:C	2.30	0.53
1:G:239:THR:HB	1:G:244:GLU:CD	2.29	0.53
1:G:719:ARG:CG	1:G:719:ARG:HH11	2.22	0.53
1:H:163:GLU:O	1:H:167:LEU:HG	2.09	0.53
1:H:523:TYR:HE1	1:H:530:SER:OG	1.91	0.53
1:H:719:ARG:HD3	1:H:726:PHE:CD2	2.44	0.53
1:A:515:HIS:CD2	1:A:516:PRO:CD	2.93	0.52
1:A:488:VAL:HG13	1:A:586:VAL:HG11	1.90	0.52
1:B:236:ASN:HB2	1:B:357:TRP:CD1	2.44	0.52
1:B:433:PHE:O	1:B:437:VAL:HG23	2.10	0.52
1:B:564:PRO:HG2	1:B:565:TYR:H	1.74	0.52
1:C:127:LEU:N	1:C:127:LEU:HD22	2.23	0.52
1:C:236:ASN:OD1	1:C:258:ARG:HD3	2.08	0.52
1:D:237:PHE:HB2	1:D:243:PHE:CE1	2.44	0.52
1:C:740:TRP:NE1	1:D:316:PHE:CZ	2.73	0.52
1:D:618:LEU:HD21	1:D:742:ILE:HG23	1.90	0.52
1:D:756:ILE:N	1:D:756:ILE:HD12	2.24	0.52
1:E:239:THR:C	1:E:241:LYS:H	2.13	0.52
1:F:212:LEU:O	1:F:212:LEU:HG	2.09	0.52
1:F:446:ARG:HH12	1:F:602:THR:HA	1.75	0.52
1:A:453:TRP:CE3	1:A:463:ALA:HA	2.44	0.52
1:B:409:ARG:NH2	1:B:454:SER:HB2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:498:ALA:HB2	1:B:553:VAL:HA	1.91	0.52
1:B:540:ALA:O	1:B:543:PRO:HD2	2.10	0.52
1:C:286:THR:CG2	1:C:360:ASP:HB2	2.39	0.52
1:D:506:ILE:O	1:D:510:MET:HG3	2.10	0.52
1:D:565:TYR:O	1:D:568:THR:HG22	2.08	0.52
1:E:300:HIS:O	1:E:301:ALA:HB3	2.09	0.52
1:F:580:ILE:O	1:F:580:ILE:HG23	2.09	0.52
1:G:654:SER:HA	1:G:657:THR:HG22	1.91	0.52
1:H:655:ARG:HH11	1:H:751:GLY:HA2	1.74	0.52
1:H:756:ILE:N	1:H:756:ILE:HD12	2.24	0.52
1:A:232:LEU:CD2	1:A:256:ILE:HD11	2.38	0.52
1:A:496:VAL:CG1	1:A:506:ILE:HD13	2.39	0.52
1:B:155:ARG:HA	1:B:161:LYS:HB2	1.92	0.52
1:B:206:ASN:O	1:B:207:GLY:O	2.27	0.52
1:B:339:ARG:O	1:B:343:GLU:HG2	2.09	0.52
1:B:515:HIS:CD2	1:B:516:PRO:HD2	2.44	0.52
1:B:750:SER:OG	1:B:751:GLY:N	2.42	0.52
1:C:605:VAL:HG11	1:C:665:LYS:HB3	1.91	0.52
1:E:214:GLU:HG2	1:E:215:ASN:H	1.74	0.52
1:E:230:GLY:O	1:E:372:ASN:HB2	2.10	0.52
1:E:537:LEU:HD22	1:E:542:PHE:CE2	2.44	0.52
1:F:496:VAL:HG11	1:F:506:ILE:CG2	2.38	0.52
1:F:568:THR:HG23	1:F:570:MET:H	1.74	0.52
1:F:752:ASP:O	1:F:753:VAL:HB	2.08	0.52
1:G:230:GLY:O	1:G:372:ASN:HB2	2.09	0.52
1:H:222:TYR:HB3	1:H:329:LEU:HD23	1.91	0.52
1:H:286:THR:CG2	1:H:360:ASP:HB2	2.38	0.52
1:H:483:ASN:ND2	1:H:540:ALA:HB3	2.24	0.52
1:A:130:LYS:O	1:A:134:LYS:HG2	2.10	0.52
1:B:719:ARG:CG	1:B:719:ARG:HH11	2.22	0.52
1:D:208:ARG:N	1:D:208:ARG:HD2	2.19	0.52
1:D:264:PHE:CE2	1:D:281:ILE:HG21	2.44	0.52
1:F:204:ASP:O	1:F:205:LYS:HB3	2.09	0.52
1:G:349:MET:HA	1:G:368:SER:N	2.24	0.52
1:G:453:TRP:CE3	1:G:463:ALA:HA	2.45	0.52
1:G:496:VAL:HG11	1:G:506:ILE:CG2	2.38	0.52
1:G:708:THR:CG2	1:G:710:PRO:HD2	2.37	0.52
1:H:268:VAL:HG21	1:H:334:VAL:HG21	1.90	0.52
1:B:306:GLY:HA2	1:B:461:VAL:CA	2.32	0.52
1:B:698:ARG:HA	1:B:707:HIS:NE2	2.24	0.52
1:B:657:THR:HG21	1:C:650:PHE:CG	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:155:ARG:HA	1:G:161:LYS:HB2	1.91	0.52
1:H:197:GLN:NE2	1:H:215:ASN:HB3	2.25	0.52
1:A:210:VAL:HG22	1:A:211:TYR:N	2.25	0.52
1:A:539:ASN:O	1:A:542:PHE:N	2.38	0.52
1:A:667:ASP:OD1	1:A:669:PHE:HB3	2.08	0.52
1:C:357:TRP:O	1:C:359:THR:N	2.40	0.52
1:C:654:SER:HA	1:C:657:THR:HG22	1.91	0.52
1:C:719:ARG:HD3	1:C:726:PHE:CD2	2.45	0.52
1:E:306:GLY:HA2	1:E:461:VAL:CA	2.35	0.52
1:G:496:VAL:HG11	1:G:506:ILE:HD13	1.91	0.52
1:H:471:LEU:HD13	1:H:547:TYR:OH	2.10	0.52
1:H:425:LEU:HD22	1:H:591:ALA:HB2	1.91	0.52
1:A:498:ALA:HB2	1:A:553:VAL:HA	1.92	0.52
1:A:719:ARG:HH11	1:A:719:ARG:CG	2.22	0.52
1:B:204:ASP:C	1:B:206:ASN:N	2.63	0.52
1:B:201:ILE:HD13	1:B:212:LEU:CA	2.40	0.52
1:B:240:LYS:HA	1:B:262:ILE:HD13	1.90	0.52
1:C:667:ASP:HB3	1:C:670:VAL:CG2	2.34	0.52
1:D:607:LEU:CD1	1:D:609:LEU:HG	2.40	0.52
1:E:197:GLN:NE2	1:E:215:ASN:HB3	2.24	0.52
1:E:256:ILE:CD1	1:E:349:MET:HE1	2.40	0.52
1:E:307:ASP:H	1:E:461:VAL:HG13	1.74	0.52
1:F:200:VAL:O	1:F:213:VAL:HB	2.10	0.52
1:F:239:THR:HB	1:F:244:GLU:CD	2.29	0.52
1:G:204:ASP:C	1:G:206:ASN:N	2.59	0.52
1:H:239:THR:C	1:H:241:LYS:H	2.12	0.52
1:H:537:LEU:HD22	1:H:542:PHE:CE2	2.44	0.52
1:A:618:LEU:HD11	1:A:742:ILE:HD13	1.92	0.52
1:B:298:PHE:HE2	1:B:457:ASP:HB3	1.74	0.52
1:C:190:ILE:HG13	1:C:458:PHE:CD2	2.45	0.52
1:D:152:TYR:HA	1:D:161:LYS:HE2	1.90	0.52
1:E:425:LEU:HD22	1:E:591:ALA:HB2	1.91	0.52
1:E:680:ARG:HB3	1:E:684:HIS:HD2	1.73	0.52
1:E:719:ARG:CG	1:E:719:ARG:HH11	2.23	0.52
1:F:237:PHE:CD2	1:F:258:ARG:HB2	2.44	0.52
1:F:213:VAL:HG11	1:F:345:LEU:HD21	1.92	0.52
1:F:513:VAL:HG21	1:F:593:VAL:HG12	1.91	0.52
1:F:719:ARG:HD3	1:F:726:PHE:CD2	2.44	0.52
1:G:197:GLN:HE21	1:G:215:ASN:HB3	1.75	0.52
1:G:756:ILE:H	1:G:756:ILE:HD12	1.74	0.52
1:H:131:LEU:HD22	1:H:599:ILE:CD1	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:190:ILE:HG13	1:H:458:PHE:CD2	2.44	0.52
1:H:749:LEU:O	1:H:750:SER:CB	2.58	0.52
1:A:709:LEU:HB3	1:A:710:PRO:HD3	1.91	0.52
1:C:361:SER:O	1:C:362:THR:CB	2.57	0.52
1:D:236:ASN:OD1	1:D:258:ARG:HD3	2.09	0.52
1:E:237:PHE:CD1	1:E:261:LYS:HG3	2.45	0.52
1:E:238:GLY:O	1:E:262:ILE:HD11	2.10	0.52
1:E:603:HIS:ND1	1:E:604:ASP:OD1	2.43	0.52
1:E:648:ASP:OD2	1:E:757:ASP:OD2	2.27	0.52
1:F:298:PHE:HE2	1:F:457:ASP:HB3	1.74	0.52
1:F:446:ARG:HD2	1:F:479:PHE:CE2	2.45	0.52
1:G:236:ASN:HB2	1:G:357:TRP:CD1	2.45	0.52
1:G:680:ARG:HB3	1:G:684:HIS:HD2	1.73	0.52
1:H:513:VAL:HB	1:H:522:LEU:HD12	1.90	0.52
1:H:670:VAL:O	1:H:674:LEU:HG	2.09	0.52
1:H:719:ARG:HH11	1:H:719:ARG:HG3	1.74	0.52
1:A:483:ASN:HD21	1:A:540:ALA:HB3	1.75	0.52
1:A:759:GLU:O	1:A:760:PHE:C	2.49	0.52
1:B:565:TYR:HE1	1:B:575:GLU:HB3	1.75	0.52
1:C:680:ARG:HB3	1:C:684:HIS:CD2	2.45	0.52
1:D:190:ILE:HG13	1:D:458:PHE:CD2	2.45	0.52
1:D:339:ARG:O	1:D:343:GLU:HG2	2.10	0.52
1:D:654:SER:HA	1:D:657:THR:HG22	1.92	0.52
1:E:222:TYR:HB3	1:E:329:LEU:HD23	1.92	0.52
1:E:670:VAL:O	1:E:674:LEU:HG	2.10	0.52
1:E:690:VAL:HG23	1:E:698:ARG:HG2	1.91	0.52
1:F:425:LEU:HD22	1:F:591:ALA:HB2	1.92	0.52
1:F:619:LEU:HD23	1:F:620:SER:N	2.25	0.52
1:G:256:ILE:CD1	1:G:349:MET:HE1	2.39	0.52
1:G:465:GLU:OE2	1:G:468:GLU:OE1	2.28	0.52
1:H:127:LEU:N	1:H:127:LEU:HD22	2.25	0.52
1:H:618:LEU:HD21	1:H:742:ILE:HG23	1.92	0.52
1:A:256:ILE:CD1	1:A:349:MET:HE1	2.40	0.51
1:A:357:TRP:O	1:A:359:THR:N	2.43	0.51
1:A:361:SER:O	1:A:362:THR:CB	2.58	0.51
1:A:188:VAL:HG22	1:A:386:ILE:HD11	1.90	0.51
1:A:669:PHE:CD2	1:B:668:ARG:HD2	2.46	0.51
1:A:676:ASP:O	1:A:680:ARG:HG3	2.10	0.51
1:C:163:GLU:O	1:C:167:LEU:HG	2.10	0.51
1:C:237:PHE:CD1	1:C:261:LYS:HG3	2.45	0.51
1:C:568:THR:HG23	1:C:570:MET:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:759:GLU:O	1:C:760:PHE:C	2.49	0.51
1:D:209:LEU:O	1:D:210:VAL:O	2.27	0.51
1:D:256:ILE:CD1	1:D:349:MET:HE1	2.40	0.51
1:D:759:GLU:O	1:D:760:PHE:C	2.49	0.51
1:F:408:GLN:HB3	1:F:485:ASP:OD1	2.10	0.51
1:G:618:LEU:HD11	1:G:742:ILE:HD13	1.91	0.51
1:G:759:GLU:HG3	1:G:760:PHE:N	2.25	0.51
1:H:256:ILE:CD1	1:H:349:MET:HE1	2.40	0.51
1:A:473:SER:O	1:A:476:LEU:HB2	2.09	0.51
1:A:502:LEU:O	1:A:506:ILE:HG13	2.10	0.51
1:B:335:GLN:NE2	1:B:336:THR:HG22	2.25	0.51
1:A:668:ARG:HD2	1:B:669:PHE:CD2	2.45	0.51
1:D:465:GLU:HA	1:D:468:GLU:HB2	1.93	0.51
1:D:540:ALA:O	1:D:543:PRO:HD2	2.11	0.51
1:D:709:LEU:HB3	1:D:710:PRO:HD3	1.91	0.51
1:E:291:VAL:HG13	1:E:292:ASN:N	2.25	0.51
1:E:618:LEU:HD13	1:E:701:PHE:HZ	1.76	0.51
1:H:232:LEU:HD11	1:H:256:ILE:HG13	1.92	0.51
1:C:471:LEU:HD13	1:C:547:TYR:OH	2.10	0.51
1:D:135:LEU:HD22	1:D:432:MET:SD	2.50	0.51
1:D:433:PHE:O	1:D:437:VAL:HG23	2.11	0.51
1:D:496:VAL:CG1	1:D:506:ILE:HD13	2.41	0.51
1:E:238:GLY:N	1:E:257:VAL:HB	2.25	0.51
1:E:488:VAL:HG13	1:E:586:VAL:HG11	1.92	0.51
1:G:430:ALA:HA	1:G:450:PHE:CZ	2.45	0.51
1:H:232:LEU:HD21	1:H:256:ILE:HD11	1.92	0.51
1:H:307:ASP:N	1:H:461:VAL:HG13	2.25	0.51
1:H:483:ASN:HD21	1:H:540:ALA:HB3	1.75	0.51
1:A:183:ARG:O	1:B:758:ASN:CB	2.58	0.51
1:B:508:LYS:NZ	1:C:624:ASP:HB2	2.26	0.51
1:C:239:THR:HB	1:C:244:GLU:CD	2.30	0.51
1:D:537:LEU:HD22	1:D:542:PHE:CE2	2.45	0.51
1:E:496:VAL:HG11	1:E:506:ILE:HD13	1.92	0.51
1:F:409:ARG:NH2	1:F:454:SER:HB2	2.25	0.51
1:F:496:VAL:CG1	1:F:506:ILE:HD13	2.41	0.51
1:F:618:LEU:HD13	1:F:701:PHE:HZ	1.74	0.51
1:A:700:VAL:HG23	1:A:701:PHE:CD1	2.46	0.51
1:A:618:LEU:HD21	1:A:742:ILE:HG23	1.92	0.51
1:B:224:LYS:HA	1:B:224:LYS:HE3	1.93	0.51
1:B:237:PHE:HB2	1:B:243:PHE:CE1	2.46	0.51
1:B:682:GLU:OE2	1:B:699:HIS:CE1	2.64	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:758:ASN:CB	1:D:183:ARG:O	2.56	0.51
1:D:568:THR:HG23	1:D:570:MET:H	1.74	0.51
1:D:655:ARG:HH11	1:D:751:GLY:HA2	1.75	0.51
1:G:152:TYR:HA	1:G:161:LYS:HB3	1.92	0.51
1:G:309:TYR:HE2	1:G:325:ARG:CA	2.21	0.51
1:G:361:SER:O	1:G:362:THR:CB	2.59	0.51
1:H:473:SER:O	1:H:476:LEU:HB2	2.09	0.51
1:B:531:LYS:HE3	1:C:527:ASN:OD1	2.11	0.51
1:C:167:LEU:HD22	1:C:183:ARG:NH2	2.25	0.51
1:C:539:ASN:HD22	1:C:539:ASN:C	2.13	0.51
1:E:198:ASN:OD1	1:E:377:VAL:HA	2.11	0.51
1:E:349:MET:HA	1:E:368:SER:N	2.25	0.51
1:E:513:VAL:HG21	1:E:593:VAL:HG12	1.91	0.51
1:E:676:ASP:O	1:E:680:ARG:HG3	2.11	0.51
1:G:515:HIS:CD2	1:G:516:PRO:HD2	2.46	0.51
1:H:349:MET:HA	1:H:368:SER:N	2.25	0.51
1:H:357:TRP:O	1:H:359:THR:N	2.39	0.51
1:H:698:ARG:HA	1:H:707:HIS:NE2	2.26	0.51
1:H:699:HIS:HD2	1:H:702:TRP:H	1.58	0.51
1:H:759:GLU:O	1:H:760:PHE:C	2.49	0.51
1:A:163:GLU:O	1:A:167:LEU:HG	2.10	0.51
1:A:232:LEU:HD11	1:A:256:ILE:CG1	2.40	0.51
1:A:199:SER:O	1:A:376:THR:HG22	2.11	0.51
1:B:146:LEU:HD23	1:B:146:LEU:O	2.10	0.51
1:B:309:TYR:HE2	1:B:325:ARG:CA	2.21	0.51
1:B:361:SER:O	1:B:362:THR:CB	2.59	0.51
1:D:237:PHE:CD1	1:D:261:LYS:HG3	2.45	0.51
1:D:425:LEU:HD22	1:D:591:ALA:HB2	1.92	0.51
1:E:565:TYR:CE1	1:E:575:GLU:HB3	2.46	0.51
1:F:238:GLY:H	1:F:257:VAL:HB	1.75	0.51
1:H:759:GLU:HG3	1:H:760:PHE:N	2.25	0.51
1:A:553:VAL:HG21	1:A:597:PHE:CE2	2.46	0.51
1:B:238:GLY:N	1:B:257:VAL:HB	2.26	0.51
1:B:238:GLY:HA3	1:B:267:LYS:CD	2.41	0.51
1:B:553:VAL:HG22	1:B:554:SER:N	2.26	0.51
1:B:605:VAL:HG11	1:B:665:LYS:HB3	1.92	0.51
1:B:749:LEU:O	1:B:750:SER:HB3	2.11	0.51
1:C:222:TYR:HB3	1:C:329:LEU:HD23	1.93	0.51
1:D:146:LEU:C	1:D:146:LEU:HD23	2.31	0.51
1:F:232:LEU:HD11	1:F:256:ILE:CG1	2.41	0.51
1:F:361:SER:O	1:F:362:THR:CB	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:473:SER:O	1:F:476:LEU:HB2	2.11	0.51
1:G:408:GLN:HB3	1:G:485:ASP:OD1	2.10	0.51
1:G:580:ILE:HG23	1:G:580:ILE:O	2.11	0.51
1:H:515:HIS:CD2	1:H:516:PRO:CD	2.94	0.51
1:A:716:LEU:HD13	1:A:731:PHE:CE1	2.46	0.51
1:B:232:LEU:HD21	1:B:256:ILE:HD11	1.91	0.51
1:B:607:LEU:CD1	1:B:609:LEU:HG	2.40	0.51
1:C:404:VAL:HA	1:C:449:ILE:HG23	1.93	0.51
1:D:300:HIS:HE2	1:D:459:GLY:N	2.08	0.51
1:E:214:GLU:HG2	1:E:215:ASN:N	2.26	0.51
1:E:580:ILE:HG23	1:E:580:ILE:O	2.10	0.51
1:E:750:SER:OG	1:E:751:GLY:N	2.42	0.51
1:F:676:ASP:O	1:F:680:ARG:HG3	2.10	0.51
1:G:239:THR:O	1:G:243:PHE:HB2	2.11	0.51
1:G:513:VAL:HG21	1:G:593:VAL:HG12	1.91	0.51
1:G:759:GLU:O	1:G:760:PHE:C	2.50	0.51
1:H:146:LEU:C	1:H:146:LEU:HD23	2.31	0.51
1:H:237:PHE:CD1	1:H:261:LYS:HG3	2.46	0.51
1:B:199:SER:O	1:B:376:THR:HG22	2.11	0.51
1:C:264:PHE:CE2	1:C:281:ILE:HG21	2.46	0.51
1:C:565:TYR:O	1:C:568:THR:HG22	2.10	0.51
1:D:624:ASP:HB2	1:E:508:LYS:HZ2	1.76	0.51
1:E:239:THR:O	1:E:243:PHE:HB2	2.10	0.51
1:E:264:PHE:CE2	1:E:281:ILE:HG21	2.46	0.51
1:F:690:VAL:HG23	1:F:698:ARG:HG2	1.93	0.51
1:H:330:PRO:O	1:H:331:ASN:CB	2.59	0.51
1:H:568:THR:HG23	1:H:570:MET:H	1.76	0.51
1:H:672:LYS:HD3	1:H:676:ASP:OD2	2.11	0.51
1:A:537:LEU:HD22	1:A:542:PHE:CE2	2.46	0.50
1:A:758:ASN:CB	1:B:183:ARG:O	2.55	0.50
1:B:282:TYR:HE1	1:B:284:ASP:HB3	1.76	0.50
1:B:278:GLY:HA2	1:B:333:PRO:HG2	1.93	0.50
1:B:349:MET:HA	1:B:368:SER:N	2.26	0.50
1:B:532:VAL:HG12	1:C:528:TRP:HE1	1.75	0.50
1:B:568:THR:HG23	1:B:570:MET:H	1.76	0.50
1:C:625:LEU:CD2	1:C:639:LEU:HD11	2.41	0.50
1:D:145:LYS:O	1:D:148:ASN:HB2	2.11	0.50
1:E:409:ARG:HH11	1:E:409:ARG:HG2	1.76	0.50
1:F:239:THR:O	1:F:243:PHE:HB2	2.11	0.50
1:G:134:LYS:O	1:G:138:THR:HG23	2.11	0.50
1:G:210:VAL:HG22	1:G:211:TYR:H	1.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:749:LEU:O	1:G:750:SER:HB3	2.11	0.50
1:H:618:LEU:HD13	1:H:701:PHE:HZ	1.77	0.50
1:B:145:LYS:O	1:B:148:ASN:HB2	2.11	0.50
1:B:201:ILE:HD12	1:B:202:ILE:N	2.25	0.50
1:A:316:PHE:CZ	1:B:740:TRP:NE1	2.75	0.50
1:D:238:GLY:HA2	1:D:257:VAL:HG11	1.94	0.50
1:D:298:PHE:HB2	1:D:412:TRP:CD2	2.46	0.50
1:D:409:ARG:HB2	1:D:452:SER:OG	2.10	0.50
1:E:361:SER:O	1:E:362:THR:CB	2.60	0.50
1:G:568:THR:HG23	1:G:570:MET:H	1.75	0.50
1:H:361:SER:O	1:H:362:THR:CB	2.59	0.50
1:H:425:LEU:O	1:H:429:LEU:HB2	2.12	0.50
1:H:433:PHE:O	1:H:437:VAL:HG23	2.11	0.50
1:A:224:LYS:HE3	1:A:224:LYS:HA	1.94	0.50
1:A:238:GLY:HA3	1:A:267:LYS:CD	2.42	0.50
1:A:238:GLY:HA3	1:A:267:LYS:HD3	1.94	0.50
1:B:239:THR:C	1:B:241:LYS:N	2.64	0.50
1:B:655:ARG:HH11	1:B:751:GLY:HA2	1.77	0.50
1:C:409:ARG:NH2	1:C:454:SER:HB2	2.26	0.50
1:B:528:TRP:HE1	1:C:532:VAL:CG1	2.24	0.50
1:C:756:ILE:N	1:C:756:ILE:HD12	2.25	0.50
1:D:127:LEU:N	1:D:127:LEU:HD22	2.25	0.50
1:E:134:LYS:O	1:E:138:THR:HG23	2.11	0.50
1:E:749:LEU:O	1:E:750:SER:HB3	2.11	0.50
1:F:232:LEU:CD2	1:F:256:ILE:HD11	2.41	0.50
1:H:239:THR:O	1:H:243:PHE:HB2	2.12	0.50
1:H:453:TRP:CE3	1:H:463:ALA:HA	2.46	0.50
1:A:239:THR:C	1:A:241:LYS:N	2.65	0.50
1:A:307:ASP:N	1:A:461:VAL:HG13	2.26	0.50
1:A:286:THR:HG21	1:A:360:ASP:HB2	1.94	0.50
1:A:408:GLN:HB3	1:A:485:ASP:OD1	2.12	0.50
1:A:425:LEU:O	1:A:429:LEU:HB2	2.11	0.50
1:A:523:TYR:HE1	1:A:530:SER:OG	1.95	0.50
1:B:453:TRP:CG	1:B:463:ALA:HB2	2.45	0.50
1:C:286:THR:HG21	1:C:360:ASP:HB2	1.94	0.50
1:C:291:VAL:HG13	1:C:292:ASN:N	2.27	0.50
1:C:446:ARG:H	1:C:602:THR:CG2	2.24	0.50
1:D:239:THR:HB	1:D:244:GLU:CD	2.32	0.50
1:D:508:LYS:HZ2	1:E:624:ASP:HB2	1.72	0.50
1:D:672:LYS:HD3	1:D:676:ASP:OD2	2.12	0.50
1:E:127:LEU:N	1:E:127:LEU:HD22	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:240:LYS:O	1:E:241:LYS:HB3	2.11	0.50
1:E:232:LEU:HD13	1:E:254:ILE:HG22	1.93	0.50
1:E:295:LEU:HD11	1:E:568:THR:OG1	2.10	0.50
1:E:553:VAL:HG22	1:E:554:SER:H	1.77	0.50
1:E:655:ARG:HH11	1:E:751:GLY:HA2	1.74	0.50
1:F:127:LEU:N	1:F:127:LEU:HD22	2.26	0.50
1:F:212:LEU:CG	1:F:212:LEU:O	2.59	0.50
1:F:453:TRP:CE3	1:F:463:ALA:HA	2.47	0.50
1:F:553:VAL:HG22	1:F:554:SER:H	1.77	0.50
1:F:759:GLU:HG3	1:F:760:PHE:N	2.26	0.50
1:G:307:ASP:N	1:G:461:VAL:HG13	2.26	0.50
1:G:335:GLN:NE2	1:G:336:THR:HG22	2.26	0.50
1:G:425:LEU:O	1:G:429:LEU:HB2	2.12	0.50
1:H:335:GLN:NE2	1:H:336:THR:HG22	2.26	0.50
1:B:127:LEU:HD22	1:B:127:LEU:N	2.25	0.50
1:B:286:THR:HG21	1:B:360:ASP:HB2	1.93	0.50
1:B:618:LEU:HD21	1:B:742:ILE:HG23	1.94	0.50
1:C:325:ARG:HG2	1:C:326:SER:N	2.27	0.50
1:D:361:SER:O	1:D:362:THR:CB	2.60	0.50
1:E:224:LYS:HE3	1:E:224:LYS:HA	1.94	0.50
1:E:453:TRP:CG	1:E:463:ALA:HB2	2.46	0.50
1:E:502:LEU:O	1:E:506:ILE:HG13	2.12	0.50
1:D:528:TRP:HE1	1:E:532:VAL:HG12	1.76	0.50
1:E:677:ARG:NE	1:E:750:SER:HB2	2.26	0.50
1:H:680:ARG:HB3	1:H:684:HIS:CD2	2.46	0.50
1:H:677:ARG:NE	1:H:750:SER:HB2	2.27	0.50
1:A:483:ASN:ND2	1:A:540:ALA:HB3	2.27	0.50
1:A:496:VAL:HG11	1:A:506:ILE:HD13	1.94	0.50
1:A:124:TRP:HH2	1:A:596:GLN:HG2	1.75	0.50
1:A:618:LEU:HD13	1:A:701:PHE:HZ	1.76	0.50
1:A:756:ILE:HD12	1:A:756:ILE:H	1.77	0.50
1:B:291:VAL:HG13	1:B:292:ASN:N	2.27	0.50
1:B:453:TRP:CD2	1:B:463:ALA:HB2	2.47	0.50
1:C:496:VAL:HG11	1:C:506:ILE:HD13	1.94	0.50
1:C:719:ARG:CG	1:C:719:ARG:HH11	2.25	0.50
1:F:237:PHE:HB2	1:F:243:PHE:CE1	2.45	0.50
1:G:433:PHE:O	1:G:437:VAL:HG23	2.11	0.50
1:A:539:ASN:C	1:A:539:ASN:HD22	2.15	0.50
1:A:677:ARG:NE	1:A:750:SER:HB2	2.26	0.50
1:B:497:SER:OG	1:B:533:GLU:HB3	2.12	0.50
1:C:488:VAL:HG13	1:C:586:VAL:HG11	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:297:PHE:N	1:D:297:PHE:CD1	2.80	0.50
1:E:146:LEU:HD23	1:E:146:LEU:O	2.12	0.50
1:E:244:GLU:OE1	1:E:244:GLU:HA	2.12	0.50
1:E:453:TRP:CD2	1:E:463:ALA:HB2	2.46	0.50
1:E:582:GLU:H	1:E:582:GLU:CD	2.15	0.50
1:F:134:LYS:O	1:F:138:THR:HG23	2.12	0.50
1:F:230:GLY:O	1:F:372:ASN:HB2	2.12	0.50
1:F:307:ASP:H	1:F:461:VAL:HG13	1.76	0.50
1:F:286:THR:HG21	1:F:360:ASP:HB2	1.93	0.50
1:F:553:VAL:HG21	1:F:597:PHE:CE2	2.47	0.50
1:G:206:ASN:O	1:G:207:GLY:O	2.29	0.50
1:G:677:ARG:NE	1:G:750:SER:HB2	2.27	0.50
1:G:750:SER:OG	1:G:751:GLY:N	2.45	0.50
1:A:349:MET:HA	1:A:368:SER:N	2.26	0.50
1:B:670:VAL:O	1:B:674:LEU:HG	2.12	0.50
1:C:239:THR:C	1:C:241:LYS:N	2.65	0.50
1:D:131:LEU:HD22	1:D:599:ILE:CD1	2.41	0.50
1:D:155:ARG:HA	1:D:161:LYS:HB2	1.94	0.50
1:D:349:MET:HA	1:D:368:SER:N	2.25	0.50
1:D:286:THR:HG21	1:D:360:ASP:HB2	1.94	0.50
1:E:698:ARG:HA	1:E:707:HIS:NE2	2.27	0.50
1:G:306:GLY:N	1:G:459:GLY:O	2.45	0.50
1:H:295:LEU:HD22	1:H:570:MET:CE	2.42	0.50
1:H:539:ASN:O	1:H:542:PHE:N	2.42	0.50
1:H:553:VAL:HG21	1:H:597:PHE:CE2	2.47	0.50
1:H:553:VAL:HG22	1:H:554:SER:H	1.77	0.50
1:H:565:TYR:HE1	1:H:575:GLU:HB3	1.77	0.50
1:A:222:TYR:HB3	1:A:329:LEU:HD23	1.94	0.50
1:A:300:HIS:HE2	1:A:459:GLY:N	2.09	0.50
1:B:300:HIS:HE2	1:B:459:GLY:N	2.10	0.50
1:B:667:ASP:OD1	1:B:669:PHE:HB3	2.12	0.50
1:D:214:GLU:OE2	1:D:338:SER:HB3	2.11	0.50
1:D:749:LEU:O	1:D:750:SER:HB3	2.12	0.50
1:E:347:GLY:C	1:E:348:ASN:HD22	2.16	0.50
1:F:565:TYR:O	1:F:568:THR:HG22	2.12	0.50
1:G:361:SER:O	1:G:362:THR:HB	2.11	0.50
1:G:539:ASN:O	1:G:542:PHE:N	2.40	0.50
1:A:198:ASN:OD1	1:A:378:SER:N	2.44	0.49
1:A:553:VAL:HG22	1:A:554:SER:N	2.27	0.49
1:C:282:TYR:HE1	1:C:284:ASP:HB3	1.76	0.49
1:E:325:ARG:HG2	1:E:326:SER:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:357:TRP:O	1:E:359:THR:N	2.44	0.49
1:F:211:TYR:HB3	1:F:213:VAL:H	1.76	0.49
1:F:291:VAL:HG13	1:F:292:ASN:N	2.26	0.49
1:F:297:PHE:N	1:F:297:PHE:CD1	2.80	0.49
1:A:180:LYS:HD2	1:A:180:LYS:N	2.27	0.49
1:A:197:GLN:NE2	1:A:215:ASN:HB3	2.27	0.49
1:C:425:LEU:HD22	1:C:591:ALA:HB2	1.94	0.49
1:D:357:TRP:O	1:D:359:THR:N	2.40	0.49
1:D:565:TYR:CE1	1:D:575:GLU:HB3	2.47	0.49
1:D:680:ARG:HB3	1:D:684:HIS:CD2	2.47	0.49
1:C:316:PHE:CZ	1:D:740:TRP:NE1	2.79	0.49
1:E:309:TYR:HE2	1:E:325:ARG:CA	2.20	0.49
1:F:488:VAL:HG13	1:F:586:VAL:CG1	2.42	0.49
1:F:699:HIS:CD2	1:F:701:PHE:HB2	2.47	0.49
1:G:153:VAL:HG22	1:G:154:PRO:CD	2.41	0.49
1:H:221:ALA:O	1:H:223:SER:N	2.45	0.49
1:H:306:GLY:CA	1:H:461:VAL:HA	2.34	0.49
1:A:759:GLU:HG3	1:A:760:PHE:N	2.27	0.49
1:B:264:PHE:CE2	1:B:281:ILE:HG21	2.47	0.49
1:B:508:LYS:HE2	1:C:620:SER:OG	2.12	0.49
1:B:654:SER:C	1:B:657:THR:HG22	2.32	0.49
1:B:677:ARG:NE	1:B:750:SER:HB2	2.28	0.49
1:C:152:TYR:HA	1:C:161:LYS:HB3	1.94	0.49
1:D:676:ASP:O	1:D:680:ARG:HG3	2.12	0.49
1:D:735:LEU:C	1:D:735:LEU:HD23	2.32	0.49
1:E:210:VAL:CG2	1:E:211:TYR:H	2.12	0.49
1:F:565:TYR:CE1	1:F:575:GLU:HB3	2.47	0.49
1:F:553:VAL:HG21	1:F:597:PHE:HE2	1.77	0.49
1:F:677:ARG:NE	1:F:750:SER:HB2	2.26	0.49
1:G:473:SER:O	1:G:476:LEU:HB2	2.11	0.49
1:G:667:ASP:OD1	1:G:669:PHE:HB3	2.12	0.49
1:H:238:GLY:HA2	1:H:257:VAL:HG11	1.95	0.49
1:H:311:PRO:O	1:H:693:LYS:HA	2.13	0.49
1:A:188:VAL:HG21	1:A:461:VAL:HG11	1.92	0.49
1:B:163:GLU:O	1:B:167:LEU:HG	2.12	0.49
2:A:762:NAG:H82	1:B:641:TRP:CZ2	2.48	0.49
1:C:433:PHE:O	1:C:437:VAL:HG23	2.12	0.49
1:C:749:LEU:O	1:C:750:SER:HB3	2.11	0.49
1:D:712:LEU:C	1:D:712:LEU:HD23	2.32	0.49
1:E:473:SER:O	1:E:476:LEU:HB2	2.13	0.49
1:E:699:HIS:HD2	1:E:702:TRP:H	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:343:GLU:OE2	1:F:362:THR:HG21	2.12	0.49
1:F:498:ALA:HB2	1:F:553:VAL:HA	1.94	0.49
1:F:700:VAL:HG23	1:F:701:PHE:CD1	2.47	0.49
1:G:565:TYR:CE1	1:G:575:GLU:HB3	2.48	0.49
1:H:198:ASN:OD1	1:H:377:VAL:HA	2.12	0.49
1:A:209:LEU:O	1:A:210:VAL:HG12	2.12	0.49
1:A:213:VAL:O	1:A:214:GLU:HB2	2.13	0.49
1:A:237:PHE:HB2	1:A:243:PHE:CE1	2.47	0.49
1:A:282:TYR:HE1	1:A:284:ASP:HB3	1.77	0.49
1:E:330:PRO:O	1:E:331:ASN:CB	2.60	0.49
1:F:180:LYS:N	1:F:180:LYS:HD2	2.27	0.49
1:F:308:PRO:HG3	1:F:329:LEU:HD21	1.95	0.49
1:G:238:GLY:HA3	1:G:267:LYS:CD	2.42	0.49
1:G:278:GLY:HA2	1:G:333:PRO:HG2	1.95	0.49
1:H:508:LYS:O	1:H:512:ASN:ND2	2.45	0.49
1:A:240:LYS:O	1:A:241:LYS:HB3	2.13	0.49
1:A:238:GLY:HA2	1:A:257:VAL:HG11	1.95	0.49
1:A:278:GLY:HA2	1:A:333:PRO:HG2	1.94	0.49
1:A:409:ARG:HB2	1:A:452:SER:OG	2.11	0.49
1:A:756:ILE:HD12	1:A:756:ILE:N	2.27	0.49
1:B:307:ASP:H	1:B:461:VAL:HG13	1.76	0.49
1:B:680:ARG:HB3	1:B:684:HIS:CD2	2.47	0.49
1:C:199:SER:O	1:C:376:THR:HG22	2.12	0.49
1:C:361:SER:O	1:C:362:THR:HB	2.13	0.49
1:C:131:LEU:HD22	1:C:599:ILE:CD1	2.42	0.49
1:D:278:GLY:HA2	1:D:333:PRO:HG2	1.95	0.49
1:D:580:ILE:O	1:D:580:ILE:HG23	2.11	0.49
1:E:236:ASN:HB2	1:E:357:TRP:CD1	2.47	0.49
1:F:539:ASN:O	1:F:542:PHE:N	2.38	0.49
1:G:180:LYS:HD2	1:G:180:LYS:N	2.28	0.49
1:G:239:THR:C	1:G:241:LYS:N	2.66	0.49
1:G:482:ILE:HG22	1:G:483:ASN:N	2.27	0.49
1:G:553:VAL:HG22	1:G:554:SER:H	1.78	0.49
1:G:682:GLU:OE2	1:G:699:HIS:CE1	2.65	0.49
1:G:740:TRP:CH2	1:H:314:PRO:HB2	2.47	0.49
1:H:654:SER:C	1:H:657:THR:HG22	2.33	0.49
1:H:667:ASP:OD1	1:H:669:PHE:HB3	2.13	0.49
1:A:305:THR:HG23	1:A:464:THR:HG21	1.93	0.49
1:A:361:SER:O	1:A:362:THR:HB	2.12	0.49
1:A:465:GLU:HA	1:A:468:GLU:HB2	1.95	0.49
1:A:680:ARG:HB3	1:A:684:HIS:CD2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:152:TYR:HA	1:B:161:LYS:HB3	1.95	0.49
1:C:146:LEU:C	1:C:146:LEU:HD23	2.33	0.49
1:C:201:ILE:HD11	1:C:209:LEU:H	1.76	0.49
1:C:224:LYS:HE3	1:C:224:LYS:HA	1.95	0.49
1:C:124:TRP:HH2	1:C:596:GLN:HG2	1.77	0.49
1:D:453:TRP:CG	1:D:463:ALA:HB2	2.47	0.49
1:D:582:GLU:CD	1:D:582:GLU:H	2.15	0.49
1:E:297:PHE:CD1	1:E:297:PHE:N	2.81	0.49
1:E:272:GLU:OE2	1:E:330:PRO:O	2.29	0.49
1:E:349:MET:CG	1:E:367:THR:HA	2.41	0.49
1:F:238:GLY:N	1:F:257:VAL:HB	2.27	0.49
1:H:134:LYS:O	1:H:138:THR:HG23	2.13	0.49
1:H:240:LYS:O	1:H:241:LYS:HB3	2.12	0.49
1:H:306:GLY:N	1:H:459:GLY:O	2.46	0.49
1:H:708:THR:CG2	1:H:710:PRO:HD2	2.40	0.49
1:A:240:LYS:O	1:A:240:LYS:HG2	2.12	0.49
1:A:446:ARG:HH12	1:A:602:THR:HA	1.77	0.49
1:B:411:ALA:HA	1:B:457:ASP:OD2	2.13	0.49
1:C:330:PRO:O	1:C:331:ASN:CB	2.60	0.49
1:C:335:GLN:NE2	1:C:336:THR:HG22	2.28	0.49
1:C:676:ASP:O	1:C:680:ARG:HG3	2.12	0.49
1:C:682:GLU:OE2	1:C:699:HIS:CE1	2.66	0.49
1:D:311:PRO:O	1:D:693:LYS:HA	2.13	0.49
1:D:619:LEU:HD23	1:D:620:SER:N	2.28	0.49
1:E:307:ASP:N	1:E:461:VAL:HG13	2.28	0.49
1:E:311:PRO:O	1:E:693:LYS:HA	2.11	0.49
1:D:240:LYS:NZ	1:E:520:GLN:HE22	2.11	0.49
1:F:347:GLY:C	1:F:348:ASN:HD22	2.16	0.49
1:H:239:THR:HB	1:H:244:GLU:CD	2.32	0.49
1:H:749:LEU:O	1:H:750:SER:HB3	2.13	0.49
1:B:698:ARG:HA	1:B:707:HIS:HE2	1.78	0.49
1:C:281:ILE:HD12	1:C:281:ILE:N	2.28	0.49
1:D:239:THR:C	1:D:241:LYS:N	2.65	0.49
1:E:232:LEU:HD11	1:E:256:ILE:HG13	1.95	0.49
1:F:237:PHE:CD1	1:F:261:LYS:HG3	2.48	0.49
1:F:240:LYS:O	1:F:241:LYS:HB3	2.13	0.49
1:F:719:ARG:CG	1:F:719:ARG:HH11	2.26	0.49
1:G:240:LYS:O	1:G:240:LYS:HG2	2.13	0.49
1:A:237:PHE:HD2	1:A:258:ARG:HB2	1.78	0.49
1:A:682:GLU:OE2	1:A:699:HIS:CE1	2.65	0.49
1:B:305:THR:HG23	1:B:305:THR:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:361:SER:O	1:B:362:THR:HB	2.13	0.49
1:B:386:ILE:CG2	1:B:454:SER:HB3	2.43	0.49
1:B:425:LEU:O	1:B:429:LEU:HB2	2.13	0.49
1:B:496:VAL:CG1	1:B:506:ILE:HD13	2.43	0.49
1:B:620:SER:OG	1:C:508:LYS:HE2	2.13	0.49
1:C:654:SER:C	1:C:657:THR:HG22	2.33	0.49
1:C:677:ARG:NE	1:C:750:SER:HB2	2.28	0.49
1:D:180:LYS:N	1:D:180:LYS:HD2	2.28	0.49
1:E:506:ILE:O	1:E:510:MET:HG3	2.13	0.49
1:F:618:LEU:HD21	1:F:742:ILE:CG2	2.43	0.49
1:G:161:LYS:HA	1:G:164:ASN:ND2	2.19	0.49
1:G:224:LYS:HA	1:G:224:LYS:HE3	1.95	0.49
1:G:240:LYS:O	1:G:241:LYS:HB3	2.12	0.49
1:G:298:PHE:HE2	1:G:457:ASP:HB3	1.77	0.49
1:H:409:ARG:NH2	1:H:454:SER:HB2	2.26	0.49
1:H:453:TRP:CG	1:H:463:ALA:HB2	2.47	0.49
1:H:295:LEU:HD11	1:H:568:THR:OG1	2.13	0.49
1:A:240:LYS:HA	1:A:262:ILE:HD13	1.95	0.48
1:A:467:LEU:HD21	1:A:544:PHE:CZ	2.48	0.48
1:A:677:ARG:HE	1:A:750:SER:HB2	1.78	0.48
1:B:230:GLY:O	1:B:372:ASN:HB2	2.13	0.48
1:B:753:VAL:HG12	1:B:754:TRP:CG	2.48	0.48
1:C:233:VAL:HG12	1:C:234:HIS:N	2.28	0.48
1:C:317:ASN:OD1	2:C:762:NAG:O7	2.31	0.48
1:D:357:TRP:HE1	1:D:365:MET:CE	2.26	0.48
1:D:539:ASN:HD22	1:D:539:ASN:C	2.15	0.48
1:E:131:LEU:HD22	1:E:599:ILE:HD11	1.94	0.48
1:F:349:MET:HA	1:F:368:SER:N	2.27	0.48
1:F:582:GLU:CD	1:F:582:GLU:H	2.17	0.48
1:F:759:GLU:O	1:F:760:PHE:C	2.50	0.48
1:G:199:SER:O	1:G:376:THR:HG22	2.12	0.48
1:G:222:TYR:CE2	1:G:308:PRO:HG3	2.48	0.48
1:G:286:THR:HG21	1:G:360:ASP:HB2	1.94	0.48
1:G:446:ARG:HH12	1:G:602:THR:HA	1.78	0.48
1:G:721:GLN:O	1:G:723:ASN:N	2.46	0.48
1:G:732:ARG:HH11	1:G:732:ARG:CG	2.23	0.48
1:H:232:LEU:HD13	1:H:254:ILE:HG22	1.94	0.48
1:A:153:VAL:HG22	1:A:154:PRO:CD	2.43	0.48
1:A:297:PHE:N	1:A:297:PHE:CD1	2.81	0.48
1:B:197:GLN:NE2	1:B:215:ASN:HB3	2.27	0.48
1:C:430:ALA:HA	1:C:450:PHE:CZ	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:515:HIS:CD2	1:C:516:PRO:CD	2.97	0.48
1:D:205:LYS:H	1:D:205:LYS:CD	2.19	0.48
1:D:404:VAL:HA	1:D:449:ILE:HG23	1.95	0.48
1:D:430:ALA:HA	1:D:450:PHE:CZ	2.48	0.48
1:E:238:GLY:HA3	1:E:267:LYS:CD	2.44	0.48
1:F:161:LYS:O	1:F:164:ASN:HB2	2.13	0.48
1:F:208:ARG:HD3	1:F:208:ARG:N	2.27	0.48
1:F:201:ILE:CD1	1:F:211:TYR:O	2.60	0.48
1:F:409:ARG:HB2	1:F:452:SER:OG	2.13	0.48
1:F:539:ASN:HD22	1:F:539:ASN:C	2.16	0.48
1:G:161:LYS:O	1:G:164:ASN:HB2	2.13	0.48
1:G:756:ILE:N	1:G:756:ILE:HD12	2.28	0.48
1:H:409:ARG:HB2	1:H:452:SER:OG	2.14	0.48
1:H:498:ALA:HB2	1:H:553:VAL:HA	1.95	0.48
1:A:655:ARG:HH11	1:A:751:GLY:HA2	1.76	0.48
1:A:667:ASP:HB3	1:A:670:VAL:CG2	2.36	0.48
1:B:198:ASN:OD1	1:B:378:SER:N	2.44	0.48
1:B:712:LEU:HD23	1:B:712:LEU:C	2.34	0.48
1:C:700:VAL:HG23	1:C:701:PHE:CD1	2.48	0.48
1:D:244:GLU:OE1	1:D:244:GLU:HA	2.13	0.48
1:D:324:SER:O	1:D:325:ARG:HB3	2.13	0.48
1:D:732:ARG:NH1	1:D:732:ARG:HG3	2.23	0.48
1:E:278:GLY:HA2	1:E:333:PRO:HG2	1.94	0.48
1:E:305:THR:HG23	1:E:305:THR:O	2.12	0.48
1:F:122:LEU:N	1:F:122:LEU:HD12	2.28	0.48
1:F:163:GLU:O	1:F:167:LEU:HG	2.13	0.48
1:F:197:GLN:HE21	1:F:215:ASN:HB3	1.78	0.48
1:F:222:TYR:HB3	1:F:329:LEU:HD23	1.95	0.48
1:F:282:TYR:HE1	1:F:284:ASP:HB3	1.78	0.48
1:F:430:ALA:HA	1:F:450:PHE:CZ	2.48	0.48
1:G:238:GLY:HA2	1:G:257:VAL:HB	1.95	0.48
1:H:161:LYS:O	1:H:164:ASN:HB2	2.13	0.48
1:H:199:SER:O	1:H:376:THR:HG22	2.13	0.48
1:H:607:LEU:CD1	1:H:609:LEU:HG	2.43	0.48
1:A:712:LEU:HD23	1:A:712:LEU:C	2.33	0.48
1:B:211:TYR:CG	1:B:212:LEU:N	2.81	0.48
1:B:236:ASN:O	1:B:243:PHE:HD1	1.96	0.48
1:B:343:GLU:OE2	1:B:362:THR:HG21	2.13	0.48
1:B:650:PHE:CG	1:C:657:THR:HG21	2.48	0.48
1:C:212:LEU:O	1:C:214:GLU:N	2.46	0.48
1:D:201:ILE:HA	1:D:213:VAL:HG23	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:202:ILE:HB	1:D:210:VAL:CG1	2.44	0.48
1:E:335:GLN:NE2	1:E:336:THR:HG22	2.28	0.48
1:E:539:ASN:C	1:E:539:ASN:HD22	2.16	0.48
1:F:306:GLY:N	1:F:459:GLY:O	2.46	0.48
1:G:127:LEU:HD22	1:G:127:LEU:N	2.27	0.48
1:H:283:MET:HG3	1:H:297:PHE:CE1	2.49	0.48
1:H:699:HIS:CD2	1:H:701:PHE:HB2	2.48	0.48
1:H:712:LEU:C	1:H:712:LEU:HD23	2.33	0.48
1:A:152:TYR:HA	1:A:161:LYS:HB3	1.96	0.48
1:A:324:SER:O	1:A:325:ARG:HB3	2.14	0.48
1:A:699:HIS:CD2	1:A:701:PHE:HB2	2.49	0.48
1:C:237:PHE:HB2	1:C:243:PHE:CE1	2.48	0.48
1:D:305:THR:HG23	1:D:464:THR:HG21	1.94	0.48
1:D:325:ARG:HG2	1:D:326:SER:N	2.29	0.48
1:E:667:ASP:HB3	1:E:670:VAL:CG2	2.33	0.48
1:E:667:ASP:OD1	1:E:669:PHE:HB3	2.14	0.48
1:E:672:LYS:HD3	1:E:676:ASP:OD2	2.13	0.48
1:E:700:VAL:HG11	1:E:741:THR:HG21	1.95	0.48
1:E:759:GLU:O	1:E:760:PHE:C	2.51	0.48
1:F:204:ASP:OD2	1:F:206:ASN:OD1	2.32	0.48
1:F:238:GLY:HA3	1:F:267:LYS:CD	2.44	0.48
1:F:330:PRO:O	1:F:331:ASN:CB	2.61	0.48
1:F:532:VAL:HG12	1:G:528:TRP:HE1	1.78	0.48
1:G:237:PHE:HD2	1:G:258:ARG:HB2	1.78	0.48
1:G:297:PHE:N	1:G:297:PHE:CD1	2.81	0.48
1:G:654:SER:C	1:G:657:THR:HG22	2.34	0.48
1:H:446:ARG:HH12	1:H:602:THR:HA	1.79	0.48
1:A:239:THR:HB	1:A:244:GLU:CD	2.33	0.48
1:A:309:TYR:HE2	1:A:325:ARG:CA	2.24	0.48
1:A:553:VAL:HG21	1:A:597:PHE:HE2	1.79	0.48
1:B:146:LEU:HD23	1:B:146:LEU:C	2.32	0.48
1:B:759:GLU:O	1:B:760:PHE:C	2.52	0.48
1:C:465:GLU:HA	1:C:468:GLU:HB2	1.96	0.48
1:D:409:ARG:HH11	1:D:409:ARG:HG2	1.77	0.48
1:E:361:SER:O	1:E:362:THR:HB	2.13	0.48
1:D:528:TRP:CZ3	1:E:500:PRO:HB3	2.48	0.48
1:F:733:ASN:O	1:F:734:GLN:C	2.52	0.48
1:G:670:VAL:O	1:G:674:LEU:HG	2.14	0.48
1:G:712:LEU:C	1:G:712:LEU:HD23	2.34	0.48
1:H:286:THR:HG21	1:H:360:ASP:HB2	1.96	0.48
1:H:502:LEU:O	1:H:506:ILE:HG13	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:619:LEU:HD23	1:H:620:SER:N	2.28	0.48
1:A:305:THR:O	1:A:305:THR:HG23	2.13	0.48
1:A:392:VAL:HG12	1:A:449:ILE:HB	1.94	0.48
1:B:297:PHE:N	1:B:297:PHE:CD1	2.82	0.48
1:C:204:ASP:O	1:C:205:LYS:C	2.51	0.48
1:C:655:ARG:HH11	1:C:751:GLY:HA2	1.79	0.48
1:C:667:ASP:OD1	1:C:669:PHE:HB3	2.14	0.48
1:D:224:LYS:HE3	1:D:224:LYS:HA	1.96	0.48
1:D:309:TYR:HE2	1:D:325:ARG:CA	2.22	0.48
1:E:286:THR:HG21	1:E:360:ASP:HB2	1.96	0.48
1:F:361:SER:O	1:F:362:THR:HB	2.14	0.48
1:G:618:LEU:HD21	1:G:742:ILE:HG23	1.95	0.48
1:H:238:GLY:HA3	1:H:267:LYS:CD	2.43	0.48
1:H:239:THR:C	1:H:241:LYS:N	2.67	0.48
1:H:564:PRO:HG2	1:H:565:TYR:H	1.79	0.48
1:A:749:LEU:O	1:A:750:SER:HB3	2.14	0.48
1:B:240:LYS:O	1:B:241:LYS:HB3	2.14	0.48
1:C:408:GLN:HB3	1:C:485:ASP:OD1	2.13	0.48
1:D:453:TRP:CE3	1:D:463:ALA:HA	2.49	0.48
1:F:211:TYR:HD2	1:F:213:VAL:N	2.11	0.48
1:F:607:LEU:CD1	1:F:609:LEU:HG	2.44	0.48
1:F:639:LEU:HD23	1:F:643:TYR:HE1	1.78	0.48
1:G:145:LYS:O	1:G:148:ASN:HB2	2.14	0.48
1:G:193:LYS:HA	1:G:379:ASN:OD1	2.14	0.48
1:G:655:ARG:HH11	1:G:751:GLY:HA2	1.79	0.48
1:H:361:SER:O	1:H:362:THR:HB	2.14	0.48
1:H:719:ARG:HH11	1:H:719:ARG:CG	2.27	0.48
1:A:161:LYS:O	1:A:164:ASN:HB2	2.14	0.48
1:A:203:VAL:HG23	1:A:206:ASN:O	2.14	0.48
1:B:161:LYS:O	1:B:164:ASN:HB2	2.14	0.48
1:B:330:PRO:O	1:B:331:ASN:CB	2.62	0.48
1:B:444:PRO:CB	1:B:602:THR:HG21	2.37	0.48
1:C:240:LYS:HG2	1:C:240:LYS:O	2.14	0.48
1:C:619:LEU:HD23	1:C:620:SER:N	2.29	0.48
1:C:698:ARG:HA	1:C:707:HIS:HE2	1.79	0.48
1:D:134:LYS:O	1:D:138:THR:HG23	2.13	0.48
1:E:161:LYS:HA	1:E:164:ASN:ND2	2.18	0.48
1:E:207:GLY:O	1:E:209:LEU:N	2.47	0.48
1:E:465:GLU:HA	1:E:468:GLU:HB2	1.96	0.48
1:E:664:GLU:O	1:E:666:THR:N	2.46	0.48
1:F:386:ILE:CG2	1:F:454:SER:HB3	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:502:LEU:O	1:F:506:ILE:HG13	2.14	0.48
1:F:651:ARG:HG2	1:F:651:ARG:HH11	1.79	0.48
1:F:654:SER:C	1:F:657:THR:HG22	2.34	0.48
1:G:236:ASN:O	1:G:243:PHE:HD1	1.96	0.48
1:G:732:ARG:NH1	1:G:732:ARG:HG3	2.25	0.48
1:H:145:LYS:O	1:H:148:ASN:HB2	2.12	0.48
1:H:240:LYS:HG2	1:H:240:LYS:O	2.14	0.48
1:H:324:SER:O	1:H:325:ARG:HB3	2.14	0.48
1:A:133:GLU:HA	1:A:136:ASP:HB2	1.95	0.48
1:A:325:ARG:HG2	1:A:326:SER:N	2.29	0.48
1:A:478:ALA:O	1:A:550:ILE:HD12	2.14	0.48
1:A:497:SER:OG	1:A:533:GLU:HB3	2.14	0.48
1:A:568:THR:HG23	1:A:570:MET:H	1.77	0.48
1:A:580:ILE:HG23	1:A:580:ILE:O	2.13	0.48
1:A:700:VAL:HG23	1:A:701:PHE:HD1	1.79	0.48
1:B:453:TRP:CE3	1:B:463:ALA:HA	2.49	0.48
1:B:515:HIS:CD2	1:B:516:PRO:CD	2.97	0.48
1:C:240:LYS:O	1:C:241:LYS:HB3	2.14	0.48
1:C:244:GLU:HA	1:C:244:GLU:OE1	2.13	0.48
1:E:732:ARG:NH1	1:E:732:ARG:HG3	2.27	0.48
1:E:618:LEU:HD21	1:E:742:ILE:HG23	1.94	0.48
1:F:324:SER:O	1:F:325:ARG:HB3	2.14	0.48
1:F:390:PHE:CD2	1:F:449:ILE:HD11	2.49	0.48
1:G:305:THR:HG23	1:G:305:THR:O	2.12	0.48
1:G:349:MET:CG	1:G:367:THR:HA	2.41	0.48
1:G:497:SER:OG	1:G:533:GLU:HB3	2.13	0.48
1:F:528:TRP:CH2	1:G:500:PRO:HA	2.49	0.48
1:H:488:VAL:HG21	1:H:587:ALA:HA	1.96	0.48
1:A:239:THR:O	1:A:243:PHE:HB2	2.14	0.47
1:A:430:ALA:HA	1:A:450:PHE:CZ	2.49	0.47
1:B:229:THR:HB	1:B:374:LYS:HB2	1.96	0.47
1:B:325:ARG:HG2	1:B:326:SER:N	2.28	0.47
1:B:425:LEU:HD22	1:B:591:ALA:HB2	1.96	0.47
1:B:408:GLN:HB3	1:B:485:ASP:OD1	2.14	0.47
1:C:180:LYS:N	1:C:180:LYS:HD2	2.29	0.47
1:C:347:GLY:C	1:C:348:ASN:HD22	2.17	0.47
1:C:343:GLU:OE2	1:C:362:THR:HG21	2.14	0.47
1:C:409:ARG:HH11	1:C:409:ARG:HG2	1.78	0.47
1:C:523:TYR:HE1	1:C:530:SER:OG	1.97	0.47
1:D:205:LYS:N	1:D:205:LYS:HD2	2.22	0.47
1:D:239:THR:O	1:D:243:PHE:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:408:GLN:HB3	1:D:485:ASP:OD1	2.14	0.47
1:D:453:TRP:CD2	1:D:463:ALA:HB2	2.48	0.47
1:D:565:TYR:N	1:D:565:TYR:CD2	2.82	0.47
1:D:488:VAL:HG13	1:D:586:VAL:HG11	1.96	0.47
1:E:445:SER:N	1:E:602:THR:HG22	2.29	0.47
1:E:392:VAL:HG12	1:E:449:ILE:HG13	1.96	0.47
1:E:515:HIS:CD2	1:E:516:PRO:CD	2.97	0.47
1:F:496:VAL:HG11	1:F:506:ILE:HD13	1.96	0.47
1:G:240:LYS:HA	1:G:262:ILE:HD13	1.96	0.47
1:G:390:PHE:CD2	1:G:449:ILE:HD11	2.48	0.47
1:G:700:VAL:HG11	1:G:741:THR:HG21	1.96	0.47
1:B:409:ARG:HG2	1:B:409:ARG:HH11	1.79	0.47
1:B:537:LEU:HD22	1:B:542:PHE:CE2	2.48	0.47
1:C:197:GLN:HA	1:C:197:GLN:OE1	2.14	0.47
1:C:237:PHE:O	1:C:238:GLY:C	2.52	0.47
1:C:390:PHE:CD2	1:C:449:ILE:HD11	2.49	0.47
1:D:236:ASN:O	1:D:243:PHE:HD1	1.97	0.47
1:D:515:HIS:CD2	1:D:516:PRO:CD	2.97	0.47
1:D:699:HIS:CD2	1:D:701:PHE:HB2	2.49	0.47
1:E:408:GLN:HB3	1:E:485:ASP:OD1	2.14	0.47
1:G:357:TRP:O	1:G:359:THR:N	2.45	0.47
1:H:430:ALA:HA	1:H:450:PHE:CZ	2.49	0.47
1:H:564:PRO:HG2	1:H:565:TYR:CD2	2.48	0.47
1:A:131:LEU:HD22	1:A:599:ILE:CD1	2.43	0.47
1:A:232:LEU:HB2	1:A:373:VAL:CG1	2.44	0.47
1:A:236:ASN:O	1:A:243:PHE:HD1	1.97	0.47
1:A:654:SER:CA	1:A:657:THR:HG22	2.45	0.47
1:B:732:ARG:HH11	1:B:732:ARG:CG	2.25	0.47
1:C:473:SER:O	1:C:476:LEU:HB2	2.14	0.47
1:C:565:TYR:CE1	1:C:575:GLU:HB3	2.50	0.47
1:D:238:GLY:HA2	1:D:257:VAL:HB	1.96	0.47
1:D:386:ILE:CG2	1:D:454:SER:HB3	2.43	0.47
1:D:699:HIS:CD2	1:D:702:TRP:H	2.32	0.47
1:E:152:TYR:HA	1:E:161:LYS:HB3	1.97	0.47
1:E:237:PHE:HB2	1:E:243:PHE:CE1	2.48	0.47
1:E:239:THR:HB	1:E:244:GLU:CD	2.34	0.47
1:F:667:ASP:HB3	1:F:670:VAL:CG2	2.37	0.47
1:H:152:TYR:HA	1:H:161:LYS:HB3	1.96	0.47
1:H:409:ARG:HH11	1:H:409:ARG:HG2	1.79	0.47
1:H:444:PRO:CB	1:H:602:THR:HG21	2.38	0.47
1:B:754:TRP:O	1:B:755:ASP:C	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:298:PHE:HE2	1:C:457:ASP:HB3	1.78	0.47
1:C:305:THR:HG23	1:C:464:THR:CG2	2.39	0.47
1:C:513:VAL:HG22	1:C:592:GLU:HG2	1.96	0.47
1:E:146:LEU:C	1:E:146:LEU:HD23	2.34	0.47
1:E:131:LEU:HD22	1:E:599:ILE:CD1	2.44	0.47
1:F:446:ARG:NH1	1:F:602:THR:HA	2.30	0.47
1:H:411:ALA:HA	1:H:457:ASP:OD2	2.14	0.47
1:A:699:HIS:CD2	1:A:702:TRP:H	2.32	0.47
1:B:244:GLU:OE1	1:B:244:GLU:HA	2.14	0.47
1:B:539:ASN:O	1:B:542:PHE:N	2.39	0.47
1:D:280:LEU:HD12	1:D:337:ILE:CD1	2.44	0.47
1:G:376:THR:HG23	1:G:376:THR:O	2.15	0.47
1:G:198:ASN:OD1	1:G:377:VAL:HA	2.14	0.47
1:G:667:ASP:HB3	1:G:670:VAL:CG2	2.35	0.47
1:H:297:PHE:N	1:H:297:PHE:CD1	2.83	0.47
1:A:232:LEU:CD1	1:A:256:ILE:HG13	2.45	0.47
1:A:386:ILE:CG2	1:A:454:SER:HB3	2.44	0.47
1:B:239:THR:O	1:B:243:PHE:HB2	2.15	0.47
1:B:473:SER:O	1:B:476:LEU:HB2	2.15	0.47
1:C:305:THR:O	1:C:305:THR:HG23	2.14	0.47
1:C:308:PRO:HG3	1:C:329:LEU:HD21	1.97	0.47
1:D:210:VAL:HG22	1:D:211:TYR:N	2.28	0.47
1:E:239:THR:C	1:E:241:LYS:N	2.68	0.47
1:E:654:SER:C	1:E:657:THR:HG22	2.34	0.47
1:F:339:ARG:O	1:F:343:GLU:HG2	2.14	0.47
1:F:743:GLN:O	1:F:746:ALA:HB3	2.15	0.47
1:G:330:PRO:O	1:G:331:ASN:CB	2.61	0.47
1:G:483:ASN:HD21	1:G:540:ALA:HB3	1.80	0.47
1:H:754:TRP:O	1:H:755:ASP:C	2.53	0.47
1:A:134:LYS:O	1:A:138:THR:HG23	2.14	0.47
1:A:446:ARG:NH1	1:A:602:THR:HA	2.30	0.47
1:B:222:TYR:CE2	1:B:308:PRO:HG3	2.50	0.47
1:B:188:VAL:HG22	1:B:386:ILE:HD11	1.97	0.47
1:C:239:THR:O	1:C:241:LYS:N	2.48	0.47
1:E:343:GLU:OE2	1:E:362:THR:HG21	2.15	0.47
1:E:580:ILE:N	1:E:581:PRO:HD3	2.30	0.47
1:E:677:ARG:HE	1:E:750:SER:HB2	1.79	0.47
1:F:208:ARG:H	1:F:208:ARG:CD	2.26	0.47
1:F:335:GLN:NE2	1:F:336:THR:HG22	2.29	0.47
1:G:208:ARG:O	1:G:209:LEU:CB	2.62	0.47
1:H:553:VAL:HG21	1:H:597:PHE:HE2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:709:LEU:CB	1:H:710:PRO:HD3	2.42	0.47
1:A:180:LYS:HD2	1:A:180:LYS:H	1.80	0.47
1:A:564:PRO:HG2	1:A:565:TYR:H	1.80	0.47
1:B:646:ARG:NH1	1:B:646:ARG:CG	2.77	0.47
1:D:230:GLY:O	1:D:372:ASN:HB2	2.15	0.47
1:D:240:LYS:O	1:D:240:LYS:HG2	2.14	0.47
1:D:181:VAL:HA	1:D:391:GLY:HA2	1.96	0.47
1:E:759:GLU:HG3	1:E:760:PHE:H	1.80	0.47
1:F:180:LYS:HD2	1:F:180:LYS:H	1.80	0.47
1:F:667:ASP:OD1	1:F:669:PHE:HB3	2.14	0.47
1:G:677:ARG:HE	1:G:750:SER:HB2	1.80	0.47
1:H:193:LYS:HA	1:H:379:ASN:OD1	2.15	0.47
1:A:190:ILE:HG13	1:A:458:PHE:CD2	2.50	0.47
1:A:409:ARG:HG2	1:A:409:ARG:HH11	1.78	0.47
1:B:203:VAL:HB	1:B:208:ARG:HA	1.97	0.47
1:C:297:PHE:N	1:C:297:PHE:CD1	2.83	0.47
1:D:131:LEU:HD22	1:D:599:ILE:HD11	1.96	0.47
1:D:330:PRO:O	1:D:331:ASN:CB	2.59	0.47
1:D:667:ASP:HB3	1:D:670:VAL:CG2	2.35	0.47
1:D:750:SER:OG	1:D:751:GLY:N	2.46	0.47
1:E:232:LEU:CD2	1:E:256:ILE:HD11	2.45	0.47
1:E:699:HIS:CD2	1:E:701:PHE:HB2	2.50	0.47
1:E:712:LEU:C	1:E:712:LEU:HD23	2.35	0.47
1:E:735:LEU:C	1:E:735:LEU:HD23	2.34	0.47
1:F:153:VAL:HG22	1:F:154:PRO:CD	2.45	0.47
1:F:233:VAL:HG12	1:F:234:HIS:N	2.30	0.47
1:F:238:GLY:C	1:F:240:LYS:N	2.67	0.47
1:F:377:VAL:HG23	1:F:377:VAL:O	2.14	0.47
1:G:515:HIS:CD2	1:G:516:PRO:CD	2.98	0.47
1:G:539:ASN:C	1:G:539:ASN:HD22	2.18	0.47
1:G:698:ARG:HA	1:G:707:HIS:NE2	2.29	0.47
1:G:700:VAL:HG23	1:G:701:PHE:CD1	2.49	0.47
1:A:639:LEU:HD23	1:A:643:TYR:HE1	1.79	0.47
1:A:730:LEU:HG	1:A:734:GLN:OE1	2.15	0.47
1:B:743:GLN:O	1:B:746:ALA:HB3	2.15	0.47
1:C:198:ASN:OD1	1:C:377:VAL:HA	2.15	0.47
1:C:731:PHE:O	1:C:732:ARG:C	2.53	0.47
1:E:327:SER:N	1:E:329:LEU:HD12	2.30	0.47
1:E:612:GLU:O	1:E:614:TYR:N	2.48	0.47
1:F:145:LYS:O	1:F:148:ASN:HB2	2.15	0.47
1:F:239:THR:C	1:F:241:LYS:N	2.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:240:LYS:O	1:F:240:LYS:HG2	2.15	0.47
1:F:307:ASP:N	1:F:461:VAL:HG13	2.30	0.47
1:G:202:ILE:HG13	1:G:213:VAL:HG21	1.97	0.47
1:G:291:VAL:HG13	1:G:292:ASN:N	2.30	0.47
1:G:523:TYR:HE1	1:G:530:SER:OG	1.98	0.47
1:H:232:LEU:HB2	1:H:373:VAL:CG1	2.45	0.47
1:H:676:ASP:O	1:H:680:ARG:HG3	2.14	0.47
1:A:190:ILE:CG2	1:A:191:GLN:N	2.78	0.47
1:A:213:VAL:HG11	1:A:345:LEU:CD2	2.44	0.47
1:A:683:TYR:CD1	1:A:686:LEU:HD12	2.50	0.47
1:B:239:THR:HB	1:B:244:GLU:CD	2.34	0.47
1:B:239:THR:O	1:B:241:LYS:N	2.48	0.47
1:B:639:LEU:HD23	1:B:643:TYR:HE1	1.80	0.47
1:C:283:MET:HG3	1:C:297:PHE:CE1	2.50	0.47
1:D:305:THR:O	1:D:305:THR:HG23	2.14	0.47
1:D:654:SER:C	1:D:657:THR:HG22	2.35	0.47
1:D:667:ASP:CB	1:D:670:VAL:HG22	2.38	0.47
1:E:145:LYS:O	1:E:148:ASN:HB2	2.15	0.47
1:E:202:ILE:HG13	1:E:213:VAL:CG2	2.45	0.47
1:F:211:TYR:CD2	1:F:212:LEU:N	2.70	0.47
1:F:664:GLU:O	1:F:666:THR:N	2.48	0.47
1:F:700:VAL:HG23	1:F:701:PHE:HD1	1.80	0.47
1:G:244:GLU:OE1	1:G:244:GLU:HA	2.15	0.47
1:G:508:LYS:O	1:G:512:ASN:ND2	2.48	0.47
1:G:564:PRO:HG2	1:G:565:TYR:H	1.80	0.47
1:H:197:GLN:HA	1:H:197:GLN:OE1	2.15	0.47
1:H:237:PHE:HB2	1:H:243:PHE:CE1	2.50	0.47
1:H:264:PHE:O	1:H:268:VAL:HG23	2.15	0.47
1:H:224:LYS:HB3	1:H:332:ILE:C	2.35	0.47
1:A:409:ARG:NH2	1:A:454:SER:HB2	2.31	0.46
1:B:180:LYS:N	1:B:180:LYS:HD2	2.30	0.46
1:B:240:LYS:O	1:B:240:LYS:HG2	2.15	0.46
1:A:753:VAL:HG11	1:B:402:TYR:CE1	2.50	0.46
1:C:201:ILE:CD1	1:C:211:TYR:O	2.63	0.46
1:C:349:MET:HA	1:C:368:SER:N	2.30	0.46
1:C:677:ARG:HE	1:C:750:SER:HB2	1.80	0.46
1:C:314:PRO:HD2	1:D:740:TRP:CD2	2.50	0.46
1:F:197:GLN:HA	1:F:197:GLN:OE1	2.15	0.46
1:F:198:ASN:OD1	1:F:377:VAL:HA	2.14	0.46
1:F:732:ARG:HG3	1:F:732:ARG:NH1	2.28	0.46
1:G:221:ALA:O	1:G:223:SER:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:483:ASN:ND2	1:G:540:ALA:HB3	2.30	0.46
1:H:556:CYS:C	1:H:558:CYS:H	2.17	0.46
1:H:750:SER:OG	1:H:751:GLY:N	2.48	0.46
1:A:307:ASP:OD1	1:A:309:TYR:N	2.48	0.46
1:B:446:ARG:HH12	1:B:602:THR:HA	1.81	0.46
1:C:145:LYS:O	1:C:148:ASN:HB2	2.14	0.46
1:D:153:VAL:HG22	1:D:154:PRO:CD	2.45	0.46
1:D:232:LEU:CD2	1:D:256:ILE:HD11	2.45	0.46
1:D:198:ASN:OD1	1:D:377:VAL:HA	2.15	0.46
1:E:180:LYS:HD2	1:E:180:LYS:N	2.30	0.46
1:F:278:GLY:HA2	1:F:333:PRO:HG2	1.98	0.46
1:F:353:CYS:HA	1:F:354:PRO:HD3	1.76	0.46
1:G:180:LYS:H	1:G:180:LYS:HD2	1.80	0.46
1:G:453:TRP:CD2	1:G:463:ALA:HB2	2.50	0.46
1:G:453:TRP:CG	1:G:463:ALA:HB2	2.49	0.46
1:G:680:ARG:HB3	1:G:684:HIS:CD2	2.50	0.46
1:H:453:TRP:CD2	1:H:463:ALA:HB2	2.51	0.46
1:A:700:VAL:HG11	1:A:741:THR:HG21	1.97	0.46
1:B:134:LYS:O	1:B:138:THR:HG23	2.16	0.46
1:B:153:VAL:HG22	1:B:154:PRO:CD	2.45	0.46
1:B:430:ALA:HA	1:B:450:PHE:CZ	2.50	0.46
1:B:500:PRO:HB3	1:C:528:TRP:CH2	2.50	0.46
1:B:580:ILE:N	1:B:581:PRO:HD3	2.30	0.46
1:C:732:ARG:NH1	1:C:732:ARG:HG3	2.26	0.46
1:C:753:VAL:HG12	1:C:754:TRP:CG	2.50	0.46
1:D:161:LYS:HA	1:D:164:ASN:ND2	2.19	0.46
1:D:154:PRO:HD2	1:D:161:LYS:HZ3	1.80	0.46
1:D:240:LYS:O	1:D:241:LYS:HB3	2.15	0.46
1:D:281:ILE:N	1:D:281:ILE:HD12	2.29	0.46
1:D:496:VAL:HG11	1:D:506:ILE:HD13	1.98	0.46
1:D:749:LEU:O	1:D:749:LEU:HG	2.16	0.46
1:E:649:PHE:O	1:E:652:ALA:HB3	2.16	0.46
1:E:667:ASP:CB	1:E:670:VAL:HG22	2.36	0.46
1:G:202:ILE:HG13	1:G:213:VAL:HG22	1.96	0.46
1:G:295:LEU:HD11	1:G:568:THR:OG1	2.14	0.46
1:G:306:GLY:HA2	1:G:461:VAL:HG22	1.97	0.46
1:G:325:ARG:HG2	1:G:326:SER:N	2.30	0.46
1:H:580:ILE:N	1:H:581:PRO:HD3	2.30	0.46
1:H:588:ARG:HD3	1:H:589:ALA:N	2.31	0.46
1:A:547:TYR:HD1	1:A:696:PRO:O	1.99	0.46
1:B:232:LEU:HD13	1:B:254:ILE:HG22	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:348:ASN:HB3	1:B:371:LYS:CE	2.33	0.46
1:B:553:VAL:HG21	1:B:597:PHE:CE2	2.51	0.46
1:B:732:ARG:HG3	1:B:732:ARG:NH1	2.27	0.46
1:C:324:SER:O	1:C:325:ARG:HB3	2.15	0.46
1:C:198:ASN:OD1	1:C:378:SER:N	2.46	0.46
1:C:409:ARG:HB2	1:C:452:SER:OG	2.15	0.46
1:D:197:GLN:OE1	1:D:197:GLN:HA	2.16	0.46
1:D:283:MET:HG3	1:D:297:PHE:CE1	2.51	0.46
1:D:343:GLU:OE2	1:D:362:THR:HG21	2.15	0.46
1:E:638:SER:HB3	1:F:320:GLN:OE1	2.15	0.46
1:E:754:TRP:O	1:E:755:ASP:C	2.54	0.46
1:F:161:LYS:HA	1:F:164:ASN:ND2	2.22	0.46
1:F:244:GLU:OE1	1:F:244:GLU:HA	2.15	0.46
1:F:264:PHE:CE2	1:F:281:ILE:HG21	2.50	0.46
1:F:357:TRP:HE1	1:F:365:MET:CE	2.29	0.46
1:G:282:TYR:HE1	1:G:284:ASP:HB3	1.79	0.46
1:G:488:VAL:HG21	1:G:587:ALA:HA	1.97	0.46
1:G:651:ARG:HG2	1:G:651:ARG:HH11	1.79	0.46
1:G:664:GLU:O	1:G:666:THR:N	2.49	0.46
1:H:732:ARG:CG	1:H:732:ARG:HH11	2.27	0.46
1:A:750:SER:OG	1:A:751:GLY:N	2.48	0.46
1:B:565:TYR:CD2	1:B:565:TYR:N	2.83	0.46
1:C:618:LEU:HD11	1:C:742:ILE:CD1	2.46	0.46
1:C:750:SER:OG	1:C:751:GLY:N	2.49	0.46
1:D:650:PHE:CE2	1:E:654:SER:HA	2.51	0.46
1:D:759:GLU:HG3	1:D:760:PHE:H	1.80	0.46
1:E:198:ASN:OD1	1:E:378:SER:N	2.47	0.46
1:F:409:ARG:HH11	1:F:409:ARG:HG2	1.79	0.46
1:F:580:ILE:N	1:F:581:PRO:HD3	2.31	0.46
1:F:603:HIS:ND1	1:F:604:ASP:OD1	2.49	0.46
1:G:203:VAL:HB	1:G:208:ARG:HA	1.97	0.46
1:G:580:ILE:N	1:G:581:PRO:HD3	2.30	0.46
1:A:330:PRO:O	1:A:331:ASN:CB	2.62	0.46
1:B:651:ARG:HG2	1:B:651:ARG:HH11	1.79	0.46
1:D:667:ASP:OD1	1:D:669:PHE:HB3	2.16	0.46
1:F:488:VAL:HG21	1:F:587:ALA:HA	1.97	0.46
1:F:646:ARG:CG	1:F:646:ARG:NH1	2.76	0.46
1:G:238:GLY:HA3	1:G:267:LYS:HD3	1.97	0.46
1:G:314:PRO:HB2	1:H:740:TRP:CH2	2.49	0.46
1:G:324:SER:O	1:G:325:ARG:HB3	2.15	0.46
1:H:122:LEU:N	1:H:122:LEU:HD12	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:211:TYR:CD1	1:H:344:LYS:HE3	2.50	0.46
1:H:325:ARG:HG2	1:H:326:SER:N	2.30	0.46
1:H:488:VAL:HG13	1:H:586:VAL:CG1	2.45	0.46
1:A:146:LEU:HD23	1:A:146:LEU:C	2.36	0.46
1:A:188:VAL:HG23	1:A:190:ILE:HD13	1.98	0.46
1:A:491:THR:HB	1:A:517:VAL:HG21	1.98	0.46
1:C:194:ASP:HB2	1:C:380:VAL:HG13	1.97	0.46
1:C:411:ALA:HA	1:C:457:ASP:OD2	2.15	0.46
1:C:639:LEU:HD23	1:C:643:TYR:HE1	1.81	0.46
1:E:359:THR:CG2	1:E:360:ASP:H	2.05	0.46
1:G:349:MET:HG2	1:G:367:THR:HG22	1.98	0.46
1:G:411:ALA:HA	1:G:457:ASP:OD2	2.16	0.46
1:G:556:CYS:C	1:G:558:CYS:H	2.19	0.46
1:H:224:LYS:HA	1:H:224:LYS:HE3	1.97	0.46
1:H:244:GLU:HA	1:H:244:GLU:OE1	2.16	0.46
1:C:547:TYR:HD1	1:C:696:PRO:O	1.99	0.46
1:D:588:ARG:HD3	1:D:589:ALA:N	2.31	0.46
1:E:556:CYS:C	1:E:558:CYS:H	2.18	0.46
1:F:124:TRP:HH2	1:F:596:GLN:HG2	1.81	0.46
1:F:325:ARG:HG2	1:F:326:SER:N	2.31	0.46
1:F:564:PRO:HG2	1:F:565:TYR:H	1.81	0.46
1:G:232:LEU:CD2	1:G:256:ILE:HD11	2.46	0.46
1:H:281:ILE:N	1:H:281:ILE:HD12	2.31	0.46
1:A:244:GLU:HA	1:A:244:GLU:OE1	2.15	0.46
1:B:194:ASP:HB2	1:B:380:VAL:HG13	1.96	0.46
1:B:539:ASN:HD22	1:B:539:ASN:C	2.19	0.46
1:C:238:GLY:C	1:C:240:LYS:N	2.68	0.46
1:C:300:HIS:NE2	1:C:458:PHE:C	2.69	0.46
1:C:453:TRP:CG	1:C:463:ALA:HB2	2.50	0.46
1:C:618:LEU:HD13	1:C:701:PHE:HZ	1.81	0.46
1:C:670:VAL:O	1:C:674:LEU:HG	2.16	0.46
1:C:699:HIS:CD2	1:C:702:TRP:H	2.34	0.46
1:D:209:LEU:HG	1:D:210:VAL:N	2.30	0.46
1:D:307:ASP:H	1:D:461:VAL:HG13	1.80	0.46
1:D:308:PRO:HG2	1:D:309:TYR:CE1	2.51	0.46
1:D:698:ARG:HA	1:D:707:HIS:NE2	2.30	0.46
1:E:238:GLY:C	1:E:240:LYS:N	2.69	0.46
1:E:607:LEU:HD11	1:E:609:LEU:HG	1.97	0.46
1:F:305:THR:HG23	1:F:305:THR:O	2.16	0.46
1:F:445:SER:N	1:F:602:THR:HG22	2.31	0.46
1:G:614:TYR:HA	1:G:617:GLN:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:733:ASN:O	1:G:734:GLN:C	2.54	0.46
1:H:326:SER:N	1:H:329:LEU:HD13	2.30	0.46
1:H:386:ILE:CG2	1:H:454:SER:HB3	2.45	0.46
1:H:445:SER:N	1:H:602:THR:HG22	2.31	0.46
1:H:654:SER:CA	1:H:657:THR:HG22	2.46	0.46
1:A:280:LEU:C	1:A:281:ILE:HD12	2.36	0.46
1:A:582:GLU:CD	1:A:582:GLU:H	2.18	0.46
1:A:664:GLU:CD	1:A:664:GLU:N	2.69	0.46
1:A:753:VAL:HG12	1:A:754:TRP:CG	2.51	0.46
1:C:210:VAL:CG1	1:C:210:VAL:O	2.63	0.46
1:C:214:GLU:C	1:C:216:PRO:HD3	2.36	0.46
1:C:232:LEU:HB2	1:C:373:VAL:CG1	2.46	0.46
1:C:537:LEU:HD22	1:C:542:PHE:CE2	2.50	0.46
1:C:758:ASN:ND2	1:C:758:ASN:N	2.63	0.46
1:D:291:VAL:HG13	1:D:292:ASN:N	2.31	0.46
1:E:240:LYS:HA	1:E:262:ILE:HD13	1.97	0.46
1:G:555:PHE:HZ	1:G:594:ALA:HB2	1.79	0.46
1:G:754:TRP:HA	1:H:470:TYR:OH	2.15	0.46
1:H:288:PHE:HD2	1:H:564:PRO:HA	1.80	0.46
1:H:588:ARG:HG3	1:H:588:ARG:NH1	2.31	0.46
1:H:743:GLN:O	1:H:746:ALA:HB3	2.15	0.46
1:B:211:TYR:CE1	1:B:212:LEU:O	2.69	0.45
1:B:238:GLY:C	1:B:240:LYS:N	2.69	0.45
1:B:238:GLY:HA3	1:B:267:LYS:HD3	1.98	0.45
1:B:307:ASP:N	1:B:461:VAL:HG13	2.30	0.45
1:B:759:GLU:HG3	1:B:760:PHE:H	1.80	0.45
1:C:191:GLN:NE2	1:C:222:TYR:N	2.65	0.45
1:C:588:ARG:HD3	1:C:589:ALA:N	2.31	0.45
1:D:349:MET:CG	1:D:367:THR:HA	2.43	0.45
1:E:163:GLU:O	1:E:167:LEU:HG	2.16	0.45
1:E:553:VAL:HG21	1:E:597:PHE:CE2	2.51	0.45
1:E:732:ARG:HH11	1:E:732:ARG:CG	2.26	0.45
1:F:515:HIS:CD2	1:F:516:PRO:HD2	2.51	0.45
1:F:735:LEU:HD23	1:F:735:LEU:C	2.36	0.45
1:G:280:LEU:C	1:G:281:ILE:HD12	2.37	0.45
1:G:409:ARG:HB2	1:G:452:SER:OG	2.16	0.45
1:G:649:PHE:O	1:G:652:ALA:HB3	2.16	0.45
1:H:240:LYS:HA	1:H:262:ILE:HD13	1.97	0.45
1:H:690:VAL:CG2	1:H:698:ARG:HG2	2.45	0.45
1:A:291:VAL:HG13	1:A:292:ASN:N	2.30	0.45
1:B:122:LEU:N	1:B:122:LEU:HD12	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:198:ASN:OD1	1:B:377:VAL:HA	2.16	0.45
1:C:357:TRP:HE1	1:C:365:MET:CE	2.30	0.45
1:C:406:GLY:HA2	1:C:451:ALA:O	2.16	0.45
1:C:576:LEU:O	1:C:580:ILE:HG22	2.15	0.45
1:D:152:TYR:HA	1:D:161:LYS:HB3	1.98	0.45
1:D:233:VAL:HG12	1:D:234:HIS:N	2.31	0.45
1:D:239:THR:O	1:D:241:LYS:N	2.49	0.45
1:D:262:ILE:HD11	1:D:267:LYS:HG2	1.98	0.45
1:D:361:SER:O	1:D:362:THR:HB	2.16	0.45
1:D:683:TYR:CD1	1:D:686:LEU:HD12	2.50	0.45
1:E:209:LEU:O	1:E:210:VAL:O	2.34	0.45
1:E:326:SER:N	1:E:329:LEU:HD13	2.31	0.45
1:E:749:LEU:O	1:E:749:LEU:HG	2.17	0.45
1:F:300:HIS:HE2	1:F:459:GLY:N	2.13	0.45
1:F:308:PRO:CG	1:F:329:LEU:HD21	2.46	0.45
1:F:654:SER:CA	1:F:657:THR:HG22	2.46	0.45
1:F:677:ARG:HE	1:F:750:SER:HB2	1.79	0.45
1:A:262:ILE:HD11	1:A:267:LYS:HG2	1.98	0.45
1:A:353:CYS:HA	1:A:354:PRO:HD3	1.74	0.45
1:A:359:THR:CG2	1:A:360:ASP:N	2.74	0.45
1:A:580:ILE:N	1:A:581:PRO:HD3	2.31	0.45
1:A:731:PHE:O	1:A:732:ARG:C	2.54	0.45
1:B:204:ASP:OD1	1:B:205:LYS:N	2.43	0.45
1:B:556:CYS:C	1:B:558:CYS:H	2.19	0.45
1:C:235:ALA:O	1:C:236:ASN:O	2.34	0.45
1:C:188:VAL:HG21	1:C:461:VAL:HG11	1.96	0.45
1:D:580:ILE:N	1:D:581:PRO:HD3	2.31	0.45
1:D:719:ARG:CG	1:D:719:ARG:NH1	2.78	0.45
1:D:754:TRP:O	1:D:755:ASP:C	2.55	0.45
1:E:588:ARG:NH1	1:E:588:ARG:HG3	2.32	0.45
1:D:508:LYS:HZ1	1:E:624:ASP:HB2	1.79	0.45
1:D:512:ASN:HD21	1:E:627:GLN:HE22	1.64	0.45
1:F:232:LEU:CD1	1:F:256:ILE:HG13	2.44	0.45
1:F:624:ASP:HB2	1:G:508:LYS:HZ2	1.81	0.45
1:G:699:HIS:CD2	1:G:701:PHE:HB2	2.51	0.45
1:H:211:TYR:CD2	1:H:212:LEU:N	2.84	0.45
1:H:700:VAL:HG23	1:H:701:PHE:CD1	2.51	0.45
1:A:340:ALA:O	1:A:343:GLU:HB2	2.16	0.45
1:B:445:SER:N	1:B:602:THR:HG22	2.31	0.45
1:B:664:GLU:O	1:B:666:THR:N	2.50	0.45
1:B:700:VAL:HG23	1:B:701:PHE:CD1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:148:ASN:HD21	1:C:416:ALA:HB2	1.81	0.45
1:C:539:ASN:O	1:C:542:PHE:N	2.43	0.45
1:C:646:ARG:NH1	1:C:646:ARG:CG	2.78	0.45
1:C:753:VAL:HG12	1:C:754:TRP:N	2.31	0.45
1:D:232:LEU:HD11	1:D:256:ILE:CG1	2.46	0.45
1:D:308:PRO:HG3	1:D:329:LEU:HD21	1.99	0.45
1:D:588:ARG:HG3	1:D:588:ARG:NH1	2.27	0.45
1:E:148:ASN:HD21	1:E:416:ALA:HB2	1.82	0.45
1:E:201:ILE:HA	1:E:213:VAL:HG23	1.98	0.45
1:E:467:LEU:HD21	1:E:544:PHE:CZ	2.52	0.45
1:F:194:ASP:HB2	1:F:380:VAL:HG13	1.98	0.45
1:F:425:LEU:O	1:F:429:LEU:HB2	2.17	0.45
1:G:208:ARG:O	1:G:209:LEU:HB3	2.17	0.45
1:G:326:SER:N	1:G:329:LEU:HD13	2.32	0.45
1:G:198:ASN:OD1	1:G:378:SER:N	2.46	0.45
1:G:664:GLU:C	1:G:666:THR:N	2.70	0.45
1:G:699:HIS:CD2	1:G:702:TRP:H	2.34	0.45
1:H:204:ASP:HB2	1:H:371:LYS:HA	1.98	0.45
1:A:618:LEU:O	1:A:622:VAL:HG23	2.16	0.45
1:A:732:ARG:NH1	1:A:732:ARG:HG3	2.28	0.45
1:B:197:GLN:OE1	1:B:197:GLN:HA	2.16	0.45
1:B:317:ASN:OD1	2:B:762:NAG:O7	2.35	0.45
1:C:214:GLU:HG3	1:C:215:ASN:N	2.31	0.45
1:C:238:GLY:HA2	1:C:257:VAL:HG11	1.99	0.45
1:C:232:LEU:CD2	1:C:256:ILE:HD11	2.47	0.45
1:D:282:TYR:HE1	1:D:284:ASP:HB3	1.81	0.45
1:D:349:MET:HG2	1:D:367:THR:HG22	1.99	0.45
1:D:564:PRO:HG2	1:D:565:TYR:H	1.81	0.45
1:D:721:GLN:O	1:D:723:ASN:N	2.50	0.45
1:D:677:ARG:HE	1:D:750:SER:HB2	1.82	0.45
1:F:515:HIS:HD2	1:F:517:VAL:N	2.09	0.45
1:F:758:ASN:N	1:F:758:ASN:ND2	2.64	0.45
1:G:281:ILE:N	1:G:281:ILE:HD12	2.31	0.45
1:G:343:GLU:OE2	1:G:362:THR:HG21	2.16	0.45
1:G:547:TYR:HD1	1:G:696:PRO:O	2.00	0.45
1:H:188:VAL:HG23	1:H:190:ILE:HD13	1.98	0.45
1:H:238:GLY:HA3	1:H:267:LYS:HD3	1.97	0.45
1:H:349:MET:CG	1:H:367:THR:HA	2.44	0.45
1:H:723:ASN:N	1:H:723:ASN:HD22	2.14	0.45
1:A:555:PHE:HZ	1:A:594:ALA:HB2	1.80	0.45
1:A:612:GLU:O	1:A:614:TYR:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:610:ASP:HB3	1:B:613:GLU:CG	2.47	0.45
1:C:122:LEU:HD12	1:C:122:LEU:N	2.31	0.45
1:C:197:GLN:HE21	1:C:215:ASN:HB3	1.82	0.45
1:B:500:PRO:HB3	1:C:528:TRP:CZ3	2.51	0.45
1:C:564:PRO:HG2	1:C:565:TYR:H	1.82	0.45
1:C:580:ILE:O	1:C:580:ILE:HG23	2.16	0.45
1:D:122:LEU:HD12	1:D:122:LEU:N	2.31	0.45
1:D:335:GLN:NE2	1:D:336:THR:HG22	2.32	0.45
1:D:523:TYR:HE1	1:D:530:SER:OG	1.99	0.45
1:E:353:CYS:HA	1:E:354:PRO:HD3	1.75	0.45
1:E:411:ALA:HA	1:E:457:ASP:OD2	2.16	0.45
1:E:392:VAL:HG12	1:E:449:ILE:HB	1.97	0.45
1:E:654:SER:CA	1:E:657:THR:HG22	2.47	0.45
1:F:146:LEU:C	1:F:146:LEU:HD23	2.36	0.45
1:F:360:ASP:O	1:F:361:SER:O	2.35	0.45
1:F:467:LEU:HD21	1:F:544:PHE:CZ	2.52	0.45
1:G:232:LEU:HB2	1:G:373:VAL:CG1	2.47	0.45
1:H:222:TYR:CE2	1:H:308:PRO:HG3	2.52	0.45
1:H:232:LEU:CD2	1:H:256:ILE:HD11	2.47	0.45
1:H:565:TYR:N	1:H:565:TYR:CD2	2.83	0.45
1:H:753:VAL:HG12	1:H:754:TRP:CG	2.52	0.45
1:A:209:LEU:CG	1:A:210:VAL:N	2.76	0.45
1:A:508:LYS:O	1:A:512:ASN:ND2	2.49	0.45
1:A:565:TYR:HE1	1:A:575:GLU:HB3	1.78	0.45
1:B:340:ALA:O	1:B:343:GLU:HB2	2.17	0.45
1:B:699:HIS:CD2	1:B:702:TRP:CD1	3.05	0.45
1:C:743:GLN:O	1:C:746:ALA:HB3	2.17	0.45
1:C:740:TRP:CH2	1:D:314:PRO:HB2	2.52	0.45
1:C:641:TRP:CZ2	1:D:316:PHE:HB3	2.52	0.45
1:D:646:ARG:CG	1:D:646:ARG:NH1	2.77	0.45
1:D:657:THR:HG21	1:E:650:PHE:CD2	2.52	0.45
1:E:221:ALA:O	1:E:223:SER:N	2.50	0.45
1:E:306:GLY:N	1:E:459:GLY:O	2.49	0.45
1:E:680:ARG:HB3	1:E:684:HIS:CD2	2.52	0.45
1:F:169:VAL:HG13	1:F:427:LEU:HD21	1.99	0.45
1:G:194:ASP:HB2	1:G:380:VAL:HG13	1.98	0.45
1:G:197:GLN:OE1	1:G:197:GLN:HA	2.16	0.45
1:G:238:GLY:HA2	1:G:257:VAL:HG11	1.98	0.45
1:G:478:ALA:O	1:G:550:ILE:HD12	2.17	0.45
1:H:240:LYS:C	1:H:242:ASP:N	2.68	0.45
1:H:698:ARG:HA	1:H:707:HIS:HE2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:233:VAL:HG12	1:A:234:HIS:N	2.32	0.45
1:A:281:ILE:HD12	1:A:281:ILE:N	2.30	0.45
1:A:553:VAL:HG11	1:A:597:PHE:CD2	2.52	0.45
1:B:496:VAL:HG11	1:B:506:ILE:HD13	1.99	0.45
1:C:235:ALA:O	1:C:236:ASN:C	2.55	0.45
1:C:349:MET:CG	1:C:367:THR:HA	2.44	0.45
1:C:669:PHE:CD1	1:C:669:PHE:C	2.90	0.45
1:C:733:ASN:O	1:C:734:GLN:C	2.55	0.45
1:C:754:TRP:O	1:C:755:ASP:C	2.54	0.45
1:D:428:LYS:HA	1:D:428:LYS:HD3	1.79	0.45
1:D:483:ASN:ND2	1:D:540:ALA:HB3	2.32	0.45
1:E:324:SER:O	1:E:325:ARG:HB3	2.17	0.45
1:F:533:GLU:HG3	1:G:526:SER:O	2.17	0.45
1:F:553:VAL:HG11	1:F:597:PHE:CD2	2.51	0.45
1:F:612:GLU:O	1:F:614:TYR:N	2.50	0.45
1:H:238:GLY:HA2	1:H:257:VAL:HB	1.98	0.45
2:H:761:NAG:H3	2:H:761:NAG:O7	2.16	0.45
1:A:607:LEU:HD11	1:A:609:LEU:HG	1.98	0.45
1:B:237:PHE:HD2	1:B:258:ARG:HB2	1.82	0.45
1:B:281:ILE:HD12	1:B:281:ILE:N	2.32	0.45
1:B:357:TRP:HE1	1:B:365:MET:CE	2.29	0.45
1:B:465:GLU:HA	1:B:468:GLU:HB2	1.99	0.45
1:C:150:ASN:O	1:C:161:LYS:NZ	2.49	0.45
1:C:207:GLY:O	1:C:208:ARG:O	2.34	0.45
1:C:540:ALA:O	1:C:543:PRO:HD2	2.17	0.45
1:D:197:GLN:HE21	1:D:215:ASN:HB3	1.82	0.45
1:D:467:LEU:C	1:D:469:GLY:N	2.69	0.45
1:D:498:ALA:CB	1:D:553:VAL:HA	2.46	0.45
1:D:568:THR:C	1:D:570:MET:H	2.19	0.45
1:D:731:PHE:HA	1:D:734:GLN:OE1	2.17	0.45
1:F:146:LEU:O	1:F:146:LEU:HD23	2.17	0.45
1:F:614:TYR:HA	1:F:617:GLN:HB2	1.99	0.45
1:F:649:PHE:O	1:F:652:ALA:HB3	2.17	0.45
1:G:197:GLN:NE2	1:G:215:ASN:HB3	2.31	0.45
1:G:637:LEU:CD1	1:G:731:PHE:HE2	2.30	0.45
1:H:700:VAL:HG23	1:H:701:PHE:HD1	1.82	0.45
1:A:197:GLN:HA	1:A:197:GLN:OE1	2.16	0.45
1:A:224:LYS:HB3	1:A:332:ILE:C	2.37	0.45
1:B:499:SER:O	1:B:501:LEU:N	2.50	0.45
1:D:513:VAL:HB	1:D:522:LEU:HD12	1.98	0.45
1:D:446:ARG:HH12	1:D:602:THR:HA	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:446:ARG:HH12	1:E:602:THR:HA	1.82	0.45
1:F:709:LEU:CB	1:F:710:PRO:HD3	2.46	0.45
1:F:754:TRP:O	1:F:755:ASP:C	2.54	0.45
1:G:498:ALA:CB	1:G:553:VAL:HA	2.46	0.45
1:G:723:ASN:HD22	1:G:723:ASN:N	2.14	0.45
1:H:180:LYS:N	1:H:180:LYS:HD2	2.32	0.45
1:H:176:PHE:CE1	1:H:431:GLN:HB2	2.52	0.45
1:H:465:GLU:HA	1:H:468:GLU:HB2	1.99	0.45
1:A:161:LYS:HA	1:A:164:ASN:ND2	2.19	0.44
1:A:212:LEU:O	1:A:213:VAL:C	2.55	0.44
1:A:698:ARG:HA	1:A:707:HIS:NE2	2.31	0.44
1:B:193:LYS:HA	1:B:379:ASN:OD1	2.17	0.44
1:B:532:VAL:CG1	1:C:528:TRP:HE1	2.30	0.44
1:C:133:GLU:HA	1:C:136:ASP:HB2	1.98	0.44
1:C:203:VAL:CG2	1:C:204:ASP:N	2.80	0.44
1:C:236:ASN:HB2	1:C:357:TRP:NE1	2.32	0.44
1:C:238:GLY:CA	1:C:267:LYS:HD3	2.46	0.44
1:C:651:ARG:HH11	1:C:651:ARG:HG2	1.82	0.44
1:D:497:SER:OG	1:D:533:GLU:HB3	2.17	0.44
1:E:300:HIS:HE2	1:E:459:GLY:N	2.14	0.44
1:E:733:ASN:O	1:E:734:GLN:C	2.55	0.44
1:F:152:TYR:HA	1:F:161:LYS:HB3	1.99	0.44
1:F:508:LYS:O	1:F:512:ASN:ND2	2.50	0.44
1:G:176:PHE:CE1	1:G:431:GLN:HB2	2.52	0.44
1:G:465:GLU:HA	1:G:468:GLU:HB2	1.99	0.44
1:G:683:TYR:CD1	1:G:686:LEU:HD12	2.52	0.44
1:H:200:VAL:HG23	1:H:213:VAL:CG1	2.47	0.44
1:H:280:LEU:C	1:H:281:ILE:HD12	2.37	0.44
1:H:291:VAL:HG13	1:H:292:ASN:N	2.31	0.44
1:H:682:GLU:OE2	1:H:699:HIS:CE1	2.70	0.44
1:H:677:ARG:HE	1:H:750:SER:HB2	1.82	0.44
1:A:190:ILE:HG23	1:A:191:GLN:N	2.32	0.44
1:B:224:LYS:HB3	1:B:332:ILE:C	2.37	0.44
1:B:565:TYR:HB3	1:B:570:MET:HB3	1.99	0.44
1:B:582:GLU:H	1:B:582:GLU:CD	2.21	0.44
1:B:733:ASN:O	1:B:734:GLN:C	2.56	0.44
1:C:553:VAL:HG22	1:C:554:SER:H	1.82	0.44
1:C:731:PHE:HA	1:C:734:GLN:OE1	2.17	0.44
1:D:124:TRP:HH2	1:D:596:GLN:HG2	1.82	0.44
1:D:483:ASN:HD21	1:D:540:ALA:HB3	1.82	0.44
1:D:614:TYR:HA	1:D:617:GLN:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:238:GLY:HA2	1:E:257:VAL:HB	1.99	0.44
1:E:386:ILE:CG2	1:E:454:SER:HB3	2.47	0.44
1:E:564:PRO:HG2	1:E:565:TYR:CD2	2.51	0.44
1:E:682:GLU:OE2	1:E:699:HIS:CE1	2.70	0.44
1:F:210:VAL:CG1	1:F:211:TYR:H	2.04	0.44
1:F:212:LEU:O	1:F:214:GLU:N	2.51	0.44
1:F:238:GLY:HA2	1:F:257:VAL:HB	1.99	0.44
1:F:270:ASN:O	1:F:274:LEU:HD23	2.17	0.44
1:F:131:LEU:HD22	1:F:599:ILE:CD1	2.47	0.44
1:G:239:THR:O	1:G:241:LYS:N	2.51	0.44
1:G:340:ALA:O	1:G:343:GLU:HB2	2.17	0.44
1:G:406:GLY:HA2	1:G:451:ALA:O	2.18	0.44
1:G:582:GLU:H	1:G:582:GLU:CD	2.21	0.44
1:G:740:TRP:NE1	1:H:316:PHE:CZ	2.83	0.44
1:H:349:MET:HE3	1:H:367:THR:HG22	1.99	0.44
1:H:639:LEU:HD23	1:H:643:TYR:HE1	1.82	0.44
1:A:154:PRO:HD2	1:A:161:LYS:HZ3	1.82	0.44
1:A:221:ALA:O	1:A:223:SER:N	2.50	0.44
1:A:239:THR:O	1:A:241:LYS:N	2.51	0.44
1:B:232:LEU:HB2	1:B:373:VAL:CG1	2.47	0.44
1:A:740:TRP:CD2	1:B:314:PRO:HD2	2.52	0.44
1:B:359:THR:CG2	1:B:360:ASP:N	2.71	0.44
1:C:211:TYR:C	1:C:213:VAL:N	2.65	0.44
1:D:198:ASN:OD1	1:D:378:SER:N	2.48	0.44
1:D:664:GLU:CD	1:D:664:GLU:N	2.67	0.44
1:E:133:GLU:HA	1:E:136:ASP:HB2	1.99	0.44
1:E:224:LYS:HB3	1:E:332:ILE:C	2.38	0.44
1:E:124:TRP:HH2	1:E:596:GLN:HG2	1.82	0.44
1:G:307:ASP:HB3	1:G:465:GLU:OE1	2.17	0.44
1:G:721:GLN:C	1:G:723:ASN:H	2.21	0.44
1:G:731:PHE:HA	1:G:734:GLN:OE1	2.17	0.44
1:G:731:PHE:O	1:G:732:ARG:C	2.55	0.44
1:H:194:ASP:HB2	1:H:380:VAL:HG13	1.99	0.44
1:H:404:VAL:HA	1:H:449:ILE:HG23	1.98	0.44
1:A:143:THR:O	1:A:147:LEU:HG	2.17	0.44
1:A:482:ILE:HG22	1:A:483:ASN:N	2.33	0.44
1:A:637:LEU:CD1	1:A:731:PHE:HE2	2.31	0.44
1:A:733:ASN:O	1:A:734:GLN:C	2.55	0.44
1:B:508:LYS:O	1:B:512:ASN:ND2	2.51	0.44
1:B:124:TRP:HH2	1:B:596:GLN:HG2	1.82	0.44
1:C:467:LEU:C	1:C:469:GLY:N	2.69	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:535:LEU:N	1:C:535:LEU:HD22	2.32	0.44
1:C:708:THR:HG22	1:C:711:ALA:N	2.14	0.44
1:D:238:GLY:HA2	1:D:257:VAL:CG1	2.47	0.44
1:D:553:VAL:HG21	1:D:597:PHE:CE2	2.52	0.44
1:D:716:LEU:HD13	1:D:731:PHE:CZ	2.53	0.44
1:E:281:ILE:HD12	1:E:281:ILE:N	2.31	0.44
1:E:317:ASN:OD1	2:E:762:NAG:O7	2.36	0.44
1:F:236:ASN:O	1:F:243:PHE:HD1	2.01	0.44
1:F:281:ILE:HD12	1:F:281:ILE:N	2.31	0.44
1:F:482:ILE:HG22	1:F:483:ASN:N	2.32	0.44
1:F:698:ARG:HA	1:F:707:HIS:NE2	2.32	0.44
1:G:122:LEU:N	1:G:122:LEU:HD12	2.32	0.44
1:G:190:ILE:HG13	1:G:458:PHE:CE2	2.53	0.44
1:G:565:TYR:CD2	1:G:565:TYR:N	2.84	0.44
1:G:646:ARG:NH1	1:G:646:ARG:CG	2.78	0.44
1:H:408:GLN:HB3	1:H:485:ASP:OD1	2.18	0.44
1:A:229:THR:HB	1:A:374:LYS:HB2	2.00	0.44
1:A:390:PHE:CD2	1:A:449:ILE:HD11	2.51	0.44
1:B:133:GLU:HA	1:B:136:ASP:HB2	2.00	0.44
1:B:654:SER:CA	1:B:657:THR:HG22	2.47	0.44
1:C:453:TRP:CD2	1:C:463:ALA:HB2	2.52	0.44
1:D:180:LYS:H	1:D:180:LYS:HD2	1.82	0.44
1:D:614:TYR:O	1:D:618:LEU:HB2	2.17	0.44
1:E:232:LEU:CD1	1:E:254:ILE:HG22	2.48	0.44
1:E:240:LYS:HG2	1:E:240:LYS:O	2.18	0.44
1:E:731:PHE:O	1:E:732:ARG:C	2.54	0.44
1:F:264:PHE:O	1:F:268:VAL:HG23	2.17	0.44
1:G:232:LEU:HD11	1:G:256:ILE:CG1	2.47	0.44
1:H:154:PRO:HD2	1:H:161:LYS:HZ3	1.83	0.44
1:H:343:GLU:OE2	1:H:362:THR:HG21	2.16	0.44
1:A:221:ALA:O	1:A:301:ALA:HB3	2.18	0.44
1:B:201:ILE:HD12	1:B:202:ILE:H	1.81	0.44
1:B:201:ILE:HD13	1:B:212:LEU:N	2.32	0.44
1:B:404:VAL:HA	1:B:449:ILE:HG23	2.00	0.44
1:B:667:ASP:HB3	1:B:670:VAL:CG2	2.37	0.44
1:C:181:VAL:HA	1:C:391:GLY:HA2	1.99	0.44
1:C:209:LEU:O	1:C:211:TYR:N	2.51	0.44
1:C:580:ILE:N	1:C:581:PRO:HD3	2.31	0.44
1:D:204:ASP:O	1:D:206:ASN:N	2.50	0.44
1:D:238:GLY:HA2	1:D:257:VAL:CB	2.47	0.44
1:D:607:LEU:HD12	1:D:678:VAL:HG11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:730:LEU:HG	1:D:734:GLN:OE1	2.18	0.44
1:F:153:VAL:O	1:F:155:ARG:N	2.49	0.44
1:F:199:SER:O	1:F:376:THR:HG22	2.17	0.44
1:F:311:PRO:O	1:F:693:LYS:HA	2.17	0.44
1:F:633:LYS:O	1:F:633:LYS:HD3	2.18	0.44
1:F:730:LEU:HG	1:F:734:GLN:OE1	2.18	0.44
1:H:282:TYR:HE1	1:H:284:ASP:HB3	1.83	0.44
1:H:327:SER:N	1:H:329:LEU:HD12	2.31	0.44
1:H:731:PHE:O	1:H:732:ARG:C	2.56	0.44
1:A:467:LEU:C	1:A:469:GLY:N	2.70	0.44
1:A:580:ILE:HG23	1:A:583:LEU:HB2	1.99	0.44
1:B:348:ASN:ND2	1:B:348:ASN:N	2.65	0.44
1:B:588:ARG:HG3	1:B:588:ARG:NH1	2.31	0.44
1:D:212:LEU:O	1:D:212:LEU:HD23	2.18	0.44
1:D:392:VAL:HG12	1:D:449:ILE:HB	1.99	0.44
1:E:284:ASP:OD1	1:E:287:LYS:HB2	2.18	0.44
1:F:224:LYS:HE3	1:F:224:LYS:HA	2.00	0.44
1:F:237:PHE:O	1:F:238:GLY:C	2.53	0.44
1:F:232:LEU:HB2	1:F:373:VAL:CG1	2.47	0.44
1:F:404:VAL:HA	1:F:449:ILE:HG23	1.99	0.44
1:G:133:GLU:HA	1:G:136:ASP:HB2	1.99	0.44
1:G:232:LEU:HD13	1:G:254:ILE:HG22	2.00	0.44
1:H:236:ASN:O	1:H:243:PHE:HD1	2.01	0.44
1:H:732:ARG:HG3	1:H:732:ARG:NH1	2.29	0.44
1:A:127:LEU:N	1:A:127:LEU:HD22	2.32	0.44
1:A:238:GLY:C	1:A:240:LYS:N	2.70	0.44
1:A:238:GLY:HA2	1:A:257:VAL:HB	2.00	0.44
1:A:306:GLY:HA2	1:A:461:VAL:HG22	1.99	0.44
1:A:488:VAL:HG21	1:A:587:ALA:HA	2.00	0.44
1:A:721:GLN:O	1:A:723:ASN:N	2.50	0.44
1:C:278:GLY:HA2	1:C:333:PRO:HG2	2.00	0.44
1:C:633:LYS:O	1:C:633:LYS:HD3	2.18	0.44
1:D:411:ALA:HA	1:D:457:ASP:OD2	2.17	0.44
1:D:176:PHE:CE1	1:D:431:GLN:HB2	2.53	0.44
1:D:633:LYS:O	1:D:633:LYS:HD3	2.18	0.44
1:F:357:TRP:O	1:F:359:THR:N	2.46	0.44
1:F:588:ARG:HD3	1:F:589:ALA:N	2.33	0.44
1:H:201:ILE:HA	1:H:213:VAL:HG21	1.98	0.44
1:H:349:MET:HG2	1:H:367:THR:HG22	2.00	0.44
1:H:491:THR:HB	1:H:517:VAL:HG21	2.00	0.44
1:H:618:LEU:O	1:H:622:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:730:LEU:HG	1:H:734:GLN:OE1	2.17	0.44
1:A:146:LEU:O	1:A:146:LEU:HD23	2.17	0.44
1:A:146:LEU:C	1:A:148:ASN:H	2.22	0.44
1:B:180:LYS:HD2	1:B:180:LYS:H	1.83	0.44
1:B:357:TRP:O	1:B:359:THR:N	2.44	0.44
1:B:731:PHE:O	1:B:732:ARG:C	2.56	0.44
1:C:134:LYS:O	1:C:138:THR:HG23	2.18	0.44
1:E:430:ALA:HA	1:E:450:PHE:CZ	2.53	0.44
1:F:238:GLY:HA3	1:F:267:LYS:HD3	2.00	0.44
1:F:198:ASN:OD1	1:F:378:SER:N	2.49	0.44
1:F:478:ALA:O	1:F:550:ILE:HD12	2.18	0.44
1:F:731:PHE:O	1:F:732:ARG:C	2.56	0.44
1:G:238:GLY:HA2	1:G:257:VAL:CB	2.48	0.44
1:G:404:VAL:HA	1:G:449:ILE:HG23	2.00	0.44
1:G:603:HIS:C	1:G:603:HIS:CD2	2.91	0.44
1:G:607:LEU:HD11	1:G:609:LEU:HG	1.99	0.44
1:H:278:GLY:HA2	1:H:333:PRO:HG2	2.00	0.44
1:G:641:TRP:CZ2	1:H:316:PHE:HB3	2.53	0.44
1:H:585:LYS:O	1:H:588:ARG:HB3	2.18	0.44
1:H:749:LEU:O	1:H:749:LEU:HG	2.18	0.44
1:A:122:LEU:HD12	1:A:122:LEU:N	2.32	0.43
1:A:349:MET:HG2	1:A:367:THR:HG22	2.00	0.43
1:A:376:THR:HG23	1:A:376:THR:O	2.18	0.43
1:A:392:VAL:HG12	1:A:449:ILE:CB	2.48	0.43
1:A:603:HIS:ND1	1:A:604:ASP:OD1	2.51	0.43
1:B:428:LYS:HA	1:B:428:LYS:HD3	1.79	0.43
1:B:677:ARG:HE	1:B:750:SER:HB2	1.83	0.43
1:B:699:HIS:CD2	1:B:701:PHE:HB2	2.53	0.43
1:B:719:ARG:CG	1:B:719:ARG:NH1	2.80	0.43
1:C:161:LYS:O	1:C:164:ASN:HB2	2.18	0.43
1:C:672:LYS:HD3	1:C:676:ASP:OD2	2.18	0.43
1:C:699:HIS:CD2	1:C:701:PHE:HB2	2.53	0.43
1:C:709:LEU:CB	1:C:710:PRO:HD3	2.48	0.43
1:D:664:GLU:O	1:D:666:THR:N	2.49	0.43
1:D:708:THR:HG22	1:D:711:ALA:N	2.14	0.43
1:E:428:LYS:HD3	1:E:428:LYS:HA	1.79	0.43
1:F:309:TYR:HE2	1:F:325:ARG:CA	2.24	0.43
1:F:467:LEU:C	1:F:469:GLY:N	2.69	0.43
1:G:428:LYS:HD3	1:G:428:LYS:HA	1.79	0.43
1:G:467:LEU:C	1:G:469:GLY:N	2.70	0.43
1:H:190:ILE:CG2	1:H:191:GLN:N	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:148:ASN:HD21	1:H:416:ALA:HB2	1.83	0.43
1:H:555:PHE:HZ	1:H:594:ALA:HB2	1.82	0.43
1:H:721:GLN:O	1:H:723:ASN:N	2.51	0.43
1:A:357:TRP:HE1	1:A:365:MET:CE	2.31	0.43
1:A:633:LYS:O	1:A:633:LYS:HD3	2.18	0.43
1:A:735:LEU:HD23	1:A:735:LEU:C	2.38	0.43
1:A:737:LEU:HD11	1:B:693:LYS:HE2	2.00	0.43
1:A:754:TRP:O	1:A:755:ASP:C	2.55	0.43
1:B:233:VAL:HG12	1:B:234:HIS:N	2.33	0.43
1:B:513:VAL:HB	1:B:522:LEU:HD12	2.00	0.43
1:B:690:VAL:CG2	1:B:698:ARG:HG2	2.47	0.43
2:B:761:NAG:H3	2:B:761:NAG:O7	2.18	0.43
1:C:224:LYS:HB3	1:C:332:ILE:C	2.38	0.43
1:C:331:ASN:O	1:C:332:ILE:HD13	2.18	0.43
1:C:614:TYR:HA	1:C:617:GLN:HB2	2.00	0.43
1:C:721:GLN:O	1:C:723:ASN:N	2.51	0.43
1:D:240:LYS:HA	1:D:262:ILE:HD13	1.99	0.43
1:D:331:ASN:O	1:D:332:ILE:HD13	2.18	0.43
1:D:539:ASN:O	1:D:542:PHE:N	2.45	0.43
1:E:153:VAL:HG22	1:E:154:PRO:CD	2.48	0.43
1:E:238:GLY:HA3	1:E:267:LYS:HD3	2.00	0.43
1:F:201:ILE:HD12	1:F:202:ILE:N	2.32	0.43
1:G:229:THR:HB	1:G:374:LYS:HB2	1.99	0.43
1:G:409:ARG:HH11	1:G:409:ARG:HG2	1.83	0.43
1:G:753:VAL:HG12	1:G:754:TRP:CG	2.53	0.43
1:H:284:ASP:OD1	1:H:287:LYS:HB2	2.18	0.43
1:H:359:THR:CG2	1:H:360:ASP:N	2.75	0.43
1:A:359:THR:CG2	1:A:360:ASP:H	2.04	0.43
1:A:428:LYS:HD3	1:A:428:LYS:HA	1.82	0.43
1:A:556:CYS:C	1:A:558:CYS:H	2.21	0.43
1:B:478:ALA:O	1:B:550:ILE:HD12	2.18	0.43
1:B:513:VAL:HG22	1:B:592:GLU:HG2	2.01	0.43
1:B:637:LEU:CD1	1:B:731:PHE:HE2	2.30	0.43
1:C:203:VAL:HG23	1:C:204:ASP:N	2.34	0.43
1:C:238:GLY:HA2	1:C:257:VAL:HB	2.00	0.43
1:C:359:THR:CG2	1:C:360:ASP:H	2.01	0.43
1:E:197:GLN:OE1	1:E:197:GLN:HA	2.17	0.43
1:E:576:LEU:O	1:E:580:ILE:HG22	2.18	0.43
1:F:188:VAL:HB	1:F:307:ASP:HB2	2.00	0.43
1:F:211:TYR:HD2	1:F:212:LEU:N	2.06	0.43
1:F:749:LEU:HG	1:F:749:LEU:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:188:VAL:HG23	1:G:190:ILE:HD13	2.00	0.43
1:G:233:VAL:HG12	1:G:234:HIS:N	2.33	0.43
1:G:402:TYR:HB3	1:G:449:ILE:HG22	1.99	0.43
1:G:758:ASN:N	1:G:758:ASN:ND2	2.64	0.43
1:H:308:PRO:HG3	1:H:329:LEU:HD21	1.99	0.43
1:H:402:TYR:CD1	1:H:402:TYR:N	2.87	0.43
1:H:758:ASN:N	1:H:758:ASN:ND2	2.66	0.43
1:A:406:GLY:HA2	1:A:451:ALA:O	2.18	0.43
1:A:614:TYR:HA	1:A:617:GLN:HB2	1.99	0.43
1:A:719:ARG:NH1	1:A:719:ARG:CG	2.80	0.43
1:C:280:LEU:HD12	1:C:337:ILE:CD1	2.46	0.43
1:C:497:SER:OG	1:C:533:GLU:HB3	2.17	0.43
1:C:539:ASN:O	1:C:541:ALA:N	2.51	0.43
1:C:582:GLU:H	1:C:582:GLU:CD	2.22	0.43
1:C:612:GLU:O	1:C:614:TYR:N	2.51	0.43
1:D:188:VAL:HB	1:D:307:ASP:HB2	2.00	0.43
1:E:199:SER:O	1:E:376:THR:HG22	2.18	0.43
1:E:719:ARG:CG	1:E:719:ARG:NH1	2.81	0.43
1:F:221:ALA:O	1:F:223:SER:N	2.52	0.43
1:F:262:ILE:HD11	1:F:267:LYS:HG2	1.99	0.43
2:F:761:NAG:O7	2:F:761:NAG:H3	2.17	0.43
1:G:327:SER:N	1:G:329:LEU:HD12	2.33	0.43
1:G:754:TRP:HA	1:G:754:TRP:HE3	1.83	0.43
1:H:230:GLY:O	1:H:372:ASN:HB2	2.19	0.43
1:H:203:VAL:O	1:H:372:ASN:O	2.36	0.43
1:H:580:ILE:HG23	1:H:583:LEU:HB2	1.99	0.43
1:H:753:VAL:HG12	1:H:754:TRP:N	2.33	0.43
1:A:214:GLU:OE1	1:A:341:ALA:HB2	2.19	0.43
1:A:222:TYR:CE2	1:A:308:PRO:HG3	2.53	0.43
1:A:690:VAL:CG2	1:A:698:ARG:HG2	2.47	0.43
1:B:153:VAL:O	1:B:155:ARG:N	2.50	0.43
1:B:188:VAL:HB	1:B:307:ASP:HB2	2.00	0.43
1:B:232:LEU:CD2	1:B:256:ILE:HD11	2.49	0.43
1:C:153:VAL:HG22	1:C:154:PRO:CD	2.48	0.43
1:C:307:ASP:OD1	1:C:309:TYR:N	2.50	0.43
1:D:284:ASP:OD1	1:D:287:LYS:HB2	2.19	0.43
1:E:238:GLY:HA2	1:E:257:VAL:HG11	2.01	0.43
1:D:620:SER:O	1:E:508:LYS:HE3	2.19	0.43
1:E:539:ASN:O	1:E:542:PHE:N	2.45	0.43
1:E:709:LEU:CB	1:E:710:PRO:HD3	2.49	0.43
1:F:327:SER:N	1:F:329:LEU:HD12	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:124:TRP:HH2	1:G:596:GLN:HG2	1.83	0.43
1:G:238:GLY:CA	1:G:257:VAL:HB	2.48	0.43
1:G:610:ASP:HB3	1:G:613:GLU:CG	2.49	0.43
1:H:238:GLY:HA2	1:H:257:VAL:CB	2.48	0.43
1:H:633:LYS:O	1:H:633:LYS:HD3	2.18	0.43
1:H:648:ASP:OD1	1:H:757:ASP:OD2	2.37	0.43
1:A:194:ASP:HB2	1:A:380:VAL:HG13	1.99	0.43
1:A:264:PHE:O	1:A:268:VAL:HG23	2.19	0.43
1:A:300:HIS:O	1:A:301:ALA:CB	2.66	0.43
1:A:348:ASN:HB3	1:A:371:LYS:CE	2.35	0.43
1:A:639:LEU:O	1:A:643:TYR:CD1	2.72	0.43
1:B:603:HIS:ND1	1:B:604:ASP:OD1	2.52	0.43
1:B:633:LYS:O	1:B:633:LYS:HD3	2.18	0.43
1:C:211:TYR:HD1	1:C:344:LYS:HE3	1.73	0.43
1:C:360:ASP:O	1:C:361:SER:O	2.36	0.43
1:C:188:VAL:HG22	1:C:386:ILE:HD11	1.98	0.43
1:C:428:LYS:HA	1:C:428:LYS:HD3	1.80	0.43
1:D:238:GLY:CA	1:D:267:LYS:HD3	2.49	0.43
1:C:689:TYR:CE2	1:D:313:PHE:HB3	2.54	0.43
1:D:488:VAL:HG21	1:D:587:ALA:HA	2.00	0.43
1:E:488:VAL:HG21	1:E:587:ALA:HA	2.00	0.43
1:E:614:TYR:O	1:E:618:LEU:HB2	2.18	0.43
1:F:133:GLU:HA	1:F:136:ASP:HB2	2.01	0.43
1:F:148:ASN:HD21	1:F:416:ALA:HB2	1.83	0.43
1:F:664:GLU:C	1:F:666:THR:N	2.72	0.43
1:G:222:TYR:CD2	1:G:308:PRO:HG3	2.54	0.43
1:G:348:ASN:HB3	1:G:371:LYS:CE	2.34	0.43
1:G:386:ILE:CG2	1:G:454:SER:HB3	2.49	0.43
1:H:582:GLU:CD	1:H:582:GLU:H	2.22	0.43
1:A:343:GLU:OE2	1:A:362:THR:HG21	2.18	0.43
1:A:411:ALA:HA	1:A:457:ASP:OD2	2.19	0.43
1:A:723:ASN:HD22	1:A:723:ASN:N	2.17	0.43
1:B:221:ALA:O	1:B:301:ALA:HB3	2.19	0.43
1:B:238:GLY:HA2	1:B:257:VAL:HB	2.01	0.43
1:B:324:SER:O	1:B:325:ARG:HB3	2.19	0.43
1:B:467:LEU:HD21	1:B:544:PHE:CZ	2.54	0.43
1:B:735:LEU:C	1:B:735:LEU:HD23	2.38	0.43
1:C:349:MET:HG2	1:C:367:THR:HG22	2.01	0.43
1:C:603:HIS:CD2	1:C:603:HIS:C	2.91	0.43
1:C:721:GLN:C	1:C:723:ASN:H	2.22	0.43
1:C:749:LEU:O	1:C:749:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:133:GLU:HA	1:D:136:ASP:HB2	1.98	0.43
1:D:280:LEU:C	1:D:281:ILE:HD12	2.38	0.43
1:D:349:MET:HB2	1:D:364:ARG:CB	2.49	0.43
1:D:627:GLN:HE22	1:E:512:ASN:HD21	1.67	0.43
1:D:708:THR:CG2	1:D:711:ALA:H	2.17	0.43
1:E:188:VAL:HG11	1:E:461:VAL:HG12	2.00	0.43
1:E:513:VAL:HG22	1:E:592:GLU:HG2	2.01	0.43
1:E:614:TYR:HA	1:E:617:GLN:HB2	1.99	0.43
1:F:547:TYR:HD1	1:F:696:PRO:O	2.01	0.43
1:F:637:LEU:CD1	1:F:731:PHE:HE2	2.31	0.43
1:F:664:GLU:N	1:F:664:GLU:CD	2.69	0.43
1:F:720:LYS:C	1:F:722:ASN:H	2.22	0.43
1:F:721:GLN:O	1:F:723:ASN:N	2.51	0.43
1:G:377:VAL:O	1:G:377:VAL:HG23	2.18	0.43
1:G:446:ARG:NH1	1:G:602:THR:HA	2.33	0.43
1:G:502:LEU:O	1:G:506:ILE:HG13	2.18	0.43
1:G:735:LEU:C	1:G:735:LEU:HD23	2.39	0.43
1:H:262:ILE:HD11	1:H:267:LYS:HG2	2.00	0.43
1:H:667:ASP:CB	1:H:670:VAL:HG22	2.36	0.43
1:A:392:VAL:HG12	1:A:449:ILE:HG13	2.00	0.43
1:A:565:TYR:CD2	1:A:565:TYR:N	2.86	0.43
1:A:588:ARG:HD3	1:A:589:ALA:N	2.34	0.43
1:A:654:SER:HA	1:A:657:THR:CG2	2.48	0.43
1:A:749:LEU:O	1:A:749:LEU:HG	2.19	0.43
1:B:146:LEU:C	1:B:148:ASN:H	2.22	0.43
1:B:488:VAL:HG13	1:B:586:VAL:HG11	2.01	0.43
1:C:232:LEU:HD11	1:C:256:ILE:CG1	2.49	0.43
1:C:386:ILE:CG2	1:C:454:SER:HB3	2.49	0.43
1:C:499:SER:O	1:C:501:LEU:N	2.52	0.43
1:C:565:TYR:N	1:C:565:TYR:CD2	2.87	0.43
1:C:565:TYR:HB3	1:C:570:MET:HB3	2.00	0.43
1:C:699:HIS:CD2	1:C:702:TRP:CD1	3.07	0.43
1:D:402:TYR:HB3	1:D:449:ILE:HG22	2.00	0.43
1:E:122:LEU:HD12	1:E:122:LEU:N	2.33	0.43
1:E:213:VAL:CG1	1:E:345:LEU:CD2	2.96	0.43
1:E:360:ASP:O	1:E:361:SER:O	2.37	0.43
1:E:229:THR:HB	1:E:374:LYS:HB2	2.00	0.43
1:E:404:VAL:HA	1:E:449:ILE:HG23	2.00	0.43
1:F:203:VAL:HG23	1:F:204:ASP:N	2.33	0.43
1:G:264:PHE:O	1:G:268:VAL:HG23	2.19	0.43
1:G:619:LEU:HD23	1:G:620:SER:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:699:HIS:CD2	1:G:702:TRP:CD1	3.07	0.43
1:H:360:ASP:O	1:H:361:SER:O	2.37	0.43
1:H:637:LEU:CD1	1:H:731:PHE:HE2	2.31	0.43
1:H:735:LEU:C	1:H:735:LEU:HD23	2.39	0.43
1:A:232:LEU:HD13	1:A:254:ILE:HG22	2.01	0.43
1:A:610:ASP:HB3	1:A:613:GLU:CG	2.49	0.43
1:A:732:ARG:CG	1:A:732:ARG:HH11	2.28	0.43
1:A:754:TRP:HA	1:A:754:TRP:HE3	1.84	0.43
1:B:204:ASP:OD2	1:B:370:SER:O	2.36	0.43
1:B:392:VAL:HG12	1:B:449:ILE:HG13	1.99	0.43
1:B:482:ILE:HG22	1:B:483:ASN:N	2.34	0.43
1:C:308:PRO:HG2	1:C:309:TYR:CE1	2.54	0.43
1:B:600:LYS:HE3	1:C:627:GLN:HE21	1.84	0.43
1:D:353:CYS:HA	1:D:354:PRO:HD3	1.75	0.43
1:D:520:GLN:NE2	1:E:240:LYS:HZ3	2.17	0.43
1:E:283:MET:HG3	1:E:297:PHE:CE1	2.53	0.43
1:E:307:ASP:HB3	1:E:310:THR:HG23	2.01	0.43
1:E:565:TYR:O	1:E:568:THR:HG22	2.19	0.43
1:E:639:LEU:HD23	1:E:643:TYR:HE1	1.84	0.43
1:F:639:LEU:O	1:F:643:TYR:CD1	2.72	0.43
1:G:491:THR:HB	1:G:517:VAL:HG21	2.01	0.43
1:G:749:LEU:O	1:G:749:LEU:HG	2.18	0.43
1:H:651:ARG:HG2	1:H:651:ARG:HH11	1.83	0.43
1:A:326:SER:N	1:A:329:LEU:HD13	2.34	0.43
1:A:230:GLY:O	1:A:372:ASN:HB2	2.19	0.43
1:A:513:VAL:HB	1:A:522:LEU:HD12	2.00	0.43
1:B:376:THR:O	1:B:376:THR:HG23	2.19	0.43
1:D:238:GLY:CA	1:D:257:VAL:HB	2.48	0.43
1:D:303:LEU:HG	1:D:303:LEU:O	2.18	0.43
1:D:349:MET:CA	1:D:367:THR:HA	2.49	0.43
1:E:280:LEU:HD22	1:E:280:LEU:N	2.33	0.43
1:E:349:MET:HB2	1:E:364:ARG:CB	2.49	0.43
1:D:508:LYS:HE3	1:E:620:SER:O	2.18	0.43
1:F:539:ASN:O	1:F:541:ALA:N	2.52	0.43
1:F:699:HIS:CD2	1:F:702:TRP:H	2.35	0.43
1:G:314:PRO:HD2	1:H:740:TRP:CD2	2.53	0.43
1:G:445:SER:N	1:G:602:THR:HG22	2.34	0.43
1:H:214:GLU:C	1:H:216:PRO:HD3	2.39	0.43
1:H:376:THR:HG23	1:H:376:THR:O	2.19	0.43
1:H:446:ARG:NH1	1:H:602:THR:HA	2.34	0.43
1:H:449:ILE:O	1:H:449:ILE:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:179:SER:O	1:A:180:LYS:C	2.58	0.42
1:A:213:VAL:HG11	1:A:345:LEU:HD21	2.01	0.42
1:A:349:MET:CG	1:A:367:THR:HA	2.45	0.42
1:B:308:PRO:HB2	1:B:329:LEU:HD11	2.01	0.42
1:B:716:LEU:HD13	1:B:731:PHE:CZ	2.54	0.42
1:C:161:LYS:HA	1:C:164:ASN:ND2	2.22	0.42
1:C:239:THR:O	1:C:243:PHE:HB2	2.19	0.42
1:C:488:VAL:HG11	1:C:583:LEU:HD12	2.00	0.42
1:C:759:GLU:HG3	1:C:760:PHE:H	1.83	0.42
1:D:208:ARG:HG2	1:D:208:ARG:O	2.18	0.42
1:D:502:LEU:O	1:D:506:ILE:HG13	2.19	0.42
1:D:553:VAL:HG21	1:D:597:PHE:HE2	1.84	0.42
1:D:603:HIS:CD2	1:D:603:HIS:C	2.92	0.42
1:D:733:ASN:O	1:D:734:GLN:C	2.57	0.42
1:E:123:TYR:O	1:E:126:ASP:HB2	2.19	0.42
1:E:482:ILE:HG22	1:E:483:ASN:N	2.34	0.42
1:F:131:LEU:HD22	1:F:599:ILE:HD11	2.01	0.42
1:F:308:PRO:HG2	1:F:309:TYR:CE1	2.55	0.42
1:F:753:VAL:HG12	1:F:754:TRP:CG	2.53	0.42
1:G:210:VAL:CG1	1:G:211:TYR:H	2.20	0.42
1:G:224:LYS:HB3	1:G:332:ILE:C	2.39	0.42
1:G:169:VAL:HG13	1:G:427:LEU:HD21	2.01	0.42
1:G:306:GLY:CA	1:G:461:VAL:HA	2.38	0.42
1:F:500:PRO:HB3	1:G:528:TRP:CZ3	2.54	0.42
1:G:568:THR:C	1:G:570:MET:H	2.22	0.42
1:G:639:LEU:HD23	1:G:643:TYR:HE1	1.82	0.42
1:G:759:GLU:HG3	1:G:760:PHE:H	1.83	0.42
1:H:143:THR:O	1:H:147:LEU:HG	2.19	0.42
1:H:204:ASP:OD2	1:H:205:LYS:HG3	2.19	0.42
1:A:651:ARG:HH11	1:A:651:ARG:HG2	1.83	0.42
1:B:201:ILE:HB	1:B:212:LEU:CD1	2.49	0.42
1:B:360:ASP:O	1:B:361:SER:O	2.38	0.42
1:B:349:MET:CG	1:B:367:THR:HA	2.48	0.42
1:B:402:TYR:HB3	1:B:449:ILE:HG22	2.00	0.42
1:B:528:TRP:NE1	1:C:532:VAL:HG12	2.33	0.42
1:C:444:PRO:CB	1:C:602:THR:HG21	2.38	0.42
1:C:610:ASP:HB3	1:C:613:GLU:CG	2.48	0.42
1:D:123:TYR:O	1:D:126:ASP:HB2	2.18	0.42
1:D:202:ILE:HB	1:D:210:VAL:HG13	2.01	0.42
1:D:238:GLY:C	1:D:240:LYS:N	2.72	0.42
1:D:240:LYS:C	1:D:242:ASP:N	2.70	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:221:ALA:O	1:D:301:ALA:HB3	2.18	0.42
1:D:306:GLY:N	1:D:459:GLY:O	2.52	0.42
1:D:390:PHE:CD2	1:D:449:ILE:HD11	2.54	0.42
1:D:473:SER:O	1:D:476:LEU:HB2	2.18	0.42
1:D:528:TRP:CH2	1:E:500:PRO:HA	2.54	0.42
1:D:556:CYS:C	1:D:558:CYS:H	2.22	0.42
1:D:719:ARG:HD3	1:D:726:PHE:CE2	2.53	0.42
1:E:176:PHE:CE1	1:E:431:GLN:HB2	2.54	0.42
1:F:497:SER:OG	1:F:533:GLU:HB3	2.19	0.42
1:F:515:HIS:CD2	1:F:516:PRO:CD	3.02	0.42
1:F:683:TYR:CD1	1:F:686:LEU:HD12	2.53	0.42
1:F:712:LEU:C	1:F:712:LEU:HD23	2.39	0.42
1:G:488:VAL:HG11	1:G:583:LEU:HD12	2.00	0.42
1:G:553:VAL:HG21	1:G:597:PHE:CE2	2.54	0.42
1:G:614:TYR:O	1:G:618:LEU:HB2	2.19	0.42
1:H:237:PHE:O	1:H:238:GLY:C	2.58	0.42
1:H:349:MET:HB2	1:H:364:ARG:CB	2.50	0.42
1:H:181:VAL:HA	1:H:391:GLY:HA2	2.00	0.42
1:H:392:VAL:HG12	1:H:449:ILE:CG1	2.49	0.42
1:A:307:ASP:HB3	1:A:310:THR:HG23	2.01	0.42
1:A:514:LYS:HA	1:A:521:PHE:HA	2.00	0.42
1:B:664:GLU:C	1:B:666:THR:N	2.73	0.42
1:D:235:ALA:O	1:D:236:ASN:C	2.58	0.42
1:D:310:THR:OG1	1:D:465:GLU:OE1	2.37	0.42
1:D:503:TYR:HD1	1:D:532:VAL:HG21	1.85	0.42
1:D:731:PHE:O	1:D:732:ARG:C	2.57	0.42
1:D:317:ASN:OD1	2:D:762:NAG:O7	2.38	0.42
1:E:446:ARG:NH1	1:E:602:THR:HA	2.35	0.42
1:F:556:CYS:C	1:F:558:CYS:H	2.22	0.42
1:F:753:VAL:HG12	1:F:754:TRP:N	2.34	0.42
1:G:190:ILE:CG2	1:G:191:GLN:N	2.83	0.42
1:G:588:ARG:HG3	1:G:588:ARG:NH1	2.34	0.42
1:H:239:THR:O	1:H:241:LYS:N	2.53	0.42
1:H:731:PHE:HA	1:H:734:GLN:OE1	2.19	0.42
1:A:145:LYS:O	1:A:148:ASN:N	2.52	0.42
1:A:686:LEU:HD23	1:A:699:HIS:N	2.34	0.42
1:B:402:TYR:N	1:B:402:TYR:CD1	2.88	0.42
1:C:537:LEU:O	1:C:537:LEU:HD13	2.19	0.42
1:D:143:THR:O	1:D:147:LEU:HG	2.18	0.42
1:E:222:TYR:CE2	1:E:308:PRO:HG3	2.54	0.42
1:E:446:ARG:NH1	1:E:601:LEU:O	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:221:ALA:O	1:F:301:ALA:HB3	2.19	0.42
1:F:326:SER:N	1:F:329:LEU:HD13	2.33	0.42
1:F:509:THR:C	1:F:511:GLN:N	2.72	0.42
1:G:353:CYS:HA	1:G:354:PRO:HD3	1.74	0.42
1:G:488:VAL:HG13	1:G:586:VAL:CG1	2.48	0.42
1:G:555:PHE:CZ	1:G:594:ALA:HB2	2.54	0.42
1:H:133:GLU:HA	1:H:136:ASP:HB2	2.00	0.42
1:H:206:ASN:OD1	1:H:206:ASN:O	2.38	0.42
1:H:236:ASN:HB2	1:H:357:TRP:NE1	2.34	0.42
1:H:187:PHE:CZ	1:H:385:LYS:HG3	2.55	0.42
1:H:392:VAL:HG12	1:H:449:ILE:HB	2.01	0.42
1:H:649:PHE:O	1:H:652:ALA:HB3	2.19	0.42
1:A:327:SER:N	1:A:329:LEU:HD12	2.34	0.42
1:A:488:VAL:HG13	1:A:586:VAL:CG1	2.49	0.42
1:A:669:PHE:CE2	1:B:668:ARG:HD2	2.55	0.42
1:B:283:MET:HG3	1:B:297:PHE:CE1	2.54	0.42
1:B:353:CYS:HA	1:B:354:PRO:HD3	1.75	0.42
1:B:588:ARG:HD3	1:B:589:ALA:N	2.34	0.42
1:B:699:HIS:CD2	1:B:702:TRP:H	2.36	0.42
1:C:188:VAL:HB	1:C:307:ASP:HB2	2.01	0.42
1:C:509:THR:C	1:C:511:GLN:H	2.22	0.42
1:C:618:LEU:HD21	1:C:742:ILE:CG2	2.49	0.42
1:D:651:ARG:HH11	1:D:651:ARG:HG2	1.84	0.42
1:E:184:ASP:OD2	1:E:186:HIS:NE2	2.53	0.42
1:E:190:ILE:HG23	1:E:191:GLN:N	2.35	0.42
1:E:357:TRP:HE1	1:E:365:MET:CE	2.33	0.42
1:E:398:GLU:N	1:E:399:PRO:CD	2.83	0.42
1:E:565:TYR:CD2	1:E:565:TYR:N	2.84	0.42
1:E:743:GLN:O	1:E:746:ALA:HB3	2.19	0.42
1:F:203:VAL:CG2	1:F:204:ASP:N	2.81	0.42
1:F:224:LYS:HB3	1:F:332:ILE:C	2.39	0.42
1:F:359:THR:CG2	1:F:360:ASP:H	2.05	0.42
1:F:483:ASN:ND2	1:F:540:ALA:HB3	2.35	0.42
1:F:721:GLN:C	1:F:723:ASN:H	2.22	0.42
1:F:732:ARG:CG	1:F:732:ARG:NH1	2.83	0.42
1:G:203:VAL:HA	1:G:208:ARG:HA	2.02	0.42
1:G:392:VAL:HG12	1:G:449:ILE:HG13	2.01	0.42
1:G:641:TRP:CH2	1:H:316:PHE:HB3	2.54	0.42
1:G:654:SER:CA	1:G:657:THR:HG22	2.48	0.42
1:G:708:THR:HG22	1:G:711:ALA:N	2.14	0.42
1:G:708:THR:CG2	1:G:711:ALA:H	2.16	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:300:HIS:NE2	1:A:458:PHE:C	2.73	0.42
1:A:649:PHE:O	1:A:652:ALA:HB3	2.20	0.42
1:B:208:ARG:H	1:B:208:ARG:HD3	1.84	0.42
1:C:153:VAL:O	1:C:155:ARG:N	2.50	0.42
1:C:262:ILE:HD11	1:C:267:LYS:HG2	2.01	0.42
1:C:264:PHE:O	1:C:268:VAL:HG23	2.19	0.42
1:C:306:GLY:CA	1:C:461:VAL:HA	2.31	0.42
1:C:654:SER:CA	1:C:657:THR:HG22	2.48	0.42
1:C:690:VAL:CG2	1:C:698:ARG:HG2	2.49	0.42
1:D:194:ASP:HB2	1:D:380:VAL:HG13	2.00	0.42
1:D:201:ILE:HD12	1:D:202:ILE:N	2.34	0.42
1:D:327:SER:N	1:D:329:LEU:HD12	2.34	0.42
1:D:446:ARG:NH1	1:D:602:THR:HA	2.34	0.42
1:D:482:ILE:HG22	1:D:483:ASN:N	2.35	0.42
1:E:180:LYS:HD2	1:E:180:LYS:H	1.85	0.42
1:E:190:ILE:HG13	1:E:458:PHE:CE2	2.54	0.42
1:E:233:VAL:HG12	1:E:234:HIS:N	2.34	0.42
1:E:221:ALA:O	1:E:301:ALA:HB3	2.19	0.42
1:E:348:ASN:ND2	1:E:348:ASN:N	2.67	0.42
1:E:588:ARG:HD3	1:E:589:ALA:N	2.35	0.42
1:E:732:ARG:NH1	1:E:732:ARG:CG	2.82	0.42
1:F:146:LEU:C	1:F:148:ASN:H	2.23	0.42
1:F:349:MET:HB2	1:F:364:ARG:CB	2.50	0.42
1:F:526:SER:O	1:G:533:GLU:HG3	2.20	0.42
1:F:650:PHE:CG	1:G:657:THR:HG21	2.54	0.42
1:G:700:VAL:HG23	1:G:701:PHE:HD1	1.84	0.42
1:G:720:LYS:C	1:G:722:ASN:H	2.23	0.42
1:H:238:GLY:HA2	1:H:257:VAL:CG1	2.49	0.42
1:H:270:ASN:O	1:H:274:LEU:HD23	2.19	0.42
1:H:300:HIS:O	1:H:301:ALA:CB	2.68	0.42
1:H:353:CYS:HA	1:H:354:PRO:HD3	1.77	0.42
1:H:618:LEU:HD11	1:H:742:ILE:CD1	2.49	0.42
1:A:208:ARG:O	1:A:208:ARG:CD	2.63	0.42
1:A:238:GLY:HA2	1:A:257:VAL:CG1	2.49	0.42
1:A:603:HIS:CD2	1:A:603:HIS:C	2.91	0.42
1:B:131:LEU:HD22	1:B:599:ILE:HD11	2.01	0.42
1:B:654:SER:HA	1:C:650:PHE:CD2	2.54	0.42
1:B:721:GLN:C	1:B:723:ASN:H	2.23	0.42
1:C:308:PRO:CG	1:C:329:LEU:HD21	2.50	0.42
1:C:390:PHE:HD2	1:C:449:ILE:HD11	1.85	0.42
1:C:445:SER:N	1:C:602:THR:HG22	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:720:LYS:C	1:C:722:ASN:H	2.23	0.42
1:D:179:SER:O	1:D:180:LYS:C	2.58	0.42
1:D:221:ALA:O	1:D:223:SER:N	2.53	0.42
1:D:326:SER:N	1:D:329:LEU:HD13	2.35	0.42
1:D:555:PHE:HZ	1:D:594:ALA:HB2	1.85	0.42
1:E:646:ARG:CG	1:E:646:ARG:NH1	2.79	0.42
1:F:513:VAL:HG22	1:F:592:GLU:HG2	2.00	0.42
1:G:146:LEU:C	1:G:148:ASN:H	2.23	0.42
1:G:390:PHE:HD2	1:G:449:ILE:HD11	1.84	0.42
1:H:390:PHE:CD2	1:H:449:ILE:HD11	2.54	0.42
1:H:654:SER:HA	1:H:657:THR:CG2	2.49	0.42
1:H:720:LYS:C	1:H:722:ASN:H	2.23	0.42
1:A:308:PRO:HB2	1:A:329:LEU:HD11	2.01	0.42
1:A:181:VAL:HA	1:A:391:GLY:HA2	2.00	0.42
1:A:402:TYR:CD1	1:A:402:TYR:N	2.87	0.42
1:A:402:TYR:HB3	1:A:449:ILE:HG22	2.01	0.42
1:A:555:PHE:CZ	1:A:594:ALA:HB2	2.55	0.42
1:A:721:GLN:C	1:A:723:ASN:H	2.22	0.42
1:A:753:VAL:HG12	1:A:754:TRP:N	2.35	0.42
1:B:221:ALA:O	1:B:223:SER:N	2.53	0.42
1:B:148:ASN:HD21	1:B:416:ALA:HB2	1.85	0.42
1:B:406:GLY:HA2	1:B:451:ALA:O	2.20	0.42
1:B:491:THR:HB	1:B:517:VAL:HG21	2.02	0.42
1:C:190:ILE:CG2	1:C:191:GLN:N	2.83	0.42
1:D:145:LYS:O	1:D:148:ASN:N	2.52	0.42
1:D:197:GLN:NE2	1:D:215:ASN:HB3	2.35	0.42
1:D:300:HIS:O	1:D:301:ALA:CB	2.68	0.42
1:D:479:PHE:CD1	1:D:607:LEU:HD21	2.55	0.42
1:E:467:LEU:C	1:E:469:GLY:N	2.70	0.42
1:E:603:HIS:CE1	1:E:604:ASP:OD2	2.72	0.42
1:E:546:ALA:O	1:E:697:PHE:HA	2.20	0.42
1:E:700:VAL:HG23	1:E:701:PHE:CD1	2.55	0.42
1:F:607:LEU:HD12	1:F:678:VAL:HG11	2.02	0.42
1:G:153:VAL:O	1:G:155:ARG:N	2.50	0.42
1:G:588:ARG:HD3	1:G:589:ALA:N	2.34	0.42
1:G:716:LEU:HD13	1:G:731:PHE:CZ	2.55	0.42
1:G:754:TRP:HA	1:G:754:TRP:CE3	2.54	0.42
1:H:348:ASN:ND2	1:H:348:ASN:N	2.66	0.42
1:H:203:VAL:O	1:H:372:ASN:OD1	2.38	0.42
1:G:668:ARG:HD2	1:H:669:PHE:CD2	2.54	0.42
1:H:759:GLU:HG3	1:H:760:PHE:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:202:ILE:HG13	1:A:213:VAL:HG21	2.01	0.42
1:A:402:TYR:CE1	1:B:753:VAL:HG11	2.55	0.42
1:A:124:TRP:CH2	1:A:596:GLN:HG2	2.54	0.42
1:C:370:SER:OG	1:C:371:LYS:HG3	2.20	0.42
1:C:376:THR:O	1:C:376:THR:HG23	2.20	0.42
1:B:123:TYR:CG	1:C:630:ALA:HB2	2.55	0.42
1:C:664:GLU:O	1:C:666:THR:N	2.51	0.42
1:C:716:LEU:HD13	1:C:731:PHE:CZ	2.55	0.42
1:C:637:LEU:CD1	1:C:731:PHE:HE2	2.33	0.42
1:D:611:TYR:OH	1:D:657:THR:HA	2.20	0.42
1:D:700:VAL:HG23	1:D:701:PHE:CD1	2.54	0.42
1:E:206:ASN:O	1:E:207:GLY:O	2.37	0.42
1:F:509:THR:C	1:F:511:GLN:H	2.22	0.42
1:E:737:LEU:CD1	1:F:693:LYS:HE2	2.49	0.42
1:F:737:LEU:C	1:F:739:THR:N	2.73	0.42
1:G:262:ILE:HD11	1:G:267:LYS:HG2	2.01	0.42
1:G:148:ASN:HD21	1:G:416:ALA:HB2	1.84	0.42
1:G:580:ILE:HG23	1:G:583:LEU:HB2	2.01	0.42
1:H:308:PRO:HB2	1:H:329:LEU:HD11	2.02	0.42
1:H:308:PRO:HG2	1:H:309:TYR:CE1	2.54	0.42
1:H:278:GLY:N	1:H:332:ILE:HG23	2.27	0.42
1:H:610:ASP:HB3	1:H:613:GLU:HG2	2.01	0.42
1:A:564:PRO:HG2	1:A:565:TYR:CD2	2.54	0.42
1:C:221:ALA:O	1:C:223:SER:N	2.53	0.42
1:C:737:LEU:C	1:C:739:THR:N	2.73	0.42
1:D:146:LEU:C	1:D:148:ASN:H	2.23	0.42
1:D:190:ILE:CG2	1:D:191:GLN:N	2.83	0.42
1:D:349:MET:HA	1:D:367:THR:CA	2.50	0.42
1:D:664:GLU:C	1:D:666:THR:N	2.72	0.42
1:D:686:LEU:HD23	1:D:699:HIS:N	2.35	0.42
1:D:758:ASN:ND2	1:D:758:ASN:N	2.65	0.42
1:E:232:LEU:HA	1:E:254:ILE:O	2.19	0.42
1:E:483:ASN:ND2	1:E:540:ALA:HB3	2.34	0.42
1:E:483:ASN:HD21	1:E:540:ALA:HB3	1.85	0.42
1:E:555:PHE:HZ	1:E:594:ALA:HB2	1.84	0.42
1:F:240:LYS:HA	1:F:262:ILE:HD13	2.00	0.42
1:F:402:TYR:N	1:F:402:TYR:CD1	2.87	0.42
1:F:411:ALA:HA	1:F:457:ASP:OD2	2.20	0.42
1:G:351:GLY:O	1:G:364:ARG:HB3	2.19	0.42
1:H:278:GLY:N	1:H:332:ILE:CG2	2.81	0.42
1:H:539:ASN:C	1:H:539:ASN:HD22	2.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:204:ASP:C	1:A:206:ASN:N	2.71	0.41
1:A:193:LYS:HA	1:A:379:ASN:OD1	2.20	0.41
1:A:488:VAL:HG11	1:A:583:LEU:HD12	2.02	0.41
1:A:720:LYS:C	1:A:722:ASN:H	2.22	0.41
1:B:415:GLY:HA2	1:B:571:ASP:CG	2.40	0.41
1:C:446:ARG:HH12	1:C:602:THR:HA	1.85	0.41
1:C:683:TYR:CD1	1:C:686:LEU:HD12	2.55	0.41
1:D:250:VAL:O	1:D:252:GLY:N	2.53	0.41
1:D:376:THR:HG23	1:D:376:THR:O	2.20	0.41
1:D:307:ASP:N	1:D:461:VAL:HG13	2.35	0.41
1:D:669:PHE:CD1	1:D:669:PHE:C	2.92	0.41
1:D:682:GLU:OE2	1:D:699:HIS:CE1	2.73	0.41
1:D:699:HIS:CD2	1:D:702:TRP:CD1	3.08	0.41
1:E:392:VAL:HG12	1:E:449:ILE:CB	2.50	0.41
1:F:197:GLN:NE2	1:F:215:ASN:HB3	2.34	0.41
1:F:176:PHE:CE1	1:F:431:GLN:HB2	2.54	0.41
1:F:415:GLY:HA2	1:F:571:ASP:CG	2.40	0.41
1:F:699:HIS:CD2	1:F:702:TRP:CD1	3.08	0.41
1:G:131:LEU:HD22	1:G:599:ILE:HD11	2.02	0.41
1:G:145:LYS:O	1:G:148:ASN:N	2.53	0.41
1:G:238:GLY:HA2	1:G:257:VAL:CG1	2.50	0.41
1:G:240:LYS:C	1:G:242:ASP:N	2.72	0.41
1:G:188:VAL:HB	1:G:307:ASP:HB2	2.01	0.41
1:G:719:ARG:CG	1:G:719:ARG:NH1	2.80	0.41
1:G:753:VAL:HG12	1:G:754:TRP:N	2.35	0.41
1:H:124:TRP:HH2	1:H:596:GLN:HG2	1.85	0.41
1:H:603:HIS:CD2	1:H:603:HIS:C	2.93	0.41
1:H:754:TRP:HA	1:H:754:TRP:HE3	1.85	0.41
1:A:238:GLY:HA2	1:A:257:VAL:CB	2.50	0.41
1:A:349:MET:HB2	1:A:364:ARG:CB	2.51	0.41
1:A:637:LEU:HD21	1:A:732:ARG:HE	1.85	0.41
1:A:667:ASP:CB	1:A:670:VAL:HG22	2.40	0.41
1:B:188:VAL:HG23	1:B:190:ILE:HD13	2.02	0.41
1:B:467:LEU:C	1:B:469:GLY:N	2.73	0.41
1:B:553:VAL:HG11	1:B:597:PHE:CD2	2.54	0.41
1:B:730:LEU:HG	1:B:734:GLN:OE1	2.19	0.41
1:C:253:SER:C	1:C:277:ILE:HD12	2.41	0.41
1:C:556:CYS:C	1:C:558:CYS:H	2.23	0.41
1:C:700:VAL:HG23	1:C:701:PHE:HD1	1.84	0.41
1:D:445:SER:N	1:D:602:THR:HG22	2.35	0.41
1:E:488:VAL:HG13	1:E:586:VAL:CG1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:637:LEU:CD1	1:E:731:PHE:HE2	2.33	0.41
1:E:731:PHE:HA	1:E:734:GLN:OE1	2.20	0.41
1:F:190:ILE:CG2	1:F:191:GLN:N	2.82	0.41
1:F:700:VAL:HG11	1:F:741:THR:HG21	2.01	0.41
1:G:190:ILE:HG23	1:G:191:GLN:N	2.36	0.41
1:G:237:PHE:O	1:G:238:GLY:C	2.58	0.41
1:G:349:MET:CB	1:G:367:THR:HA	2.51	0.41
1:F:532:VAL:HB	1:G:529:ALA:HB3	2.02	0.41
1:G:564:PRO:HG2	1:G:565:TYR:CD2	2.54	0.41
1:G:709:LEU:CB	1:G:710:PRO:HD3	2.48	0.41
1:H:514:LYS:HA	1:H:521:PHE:HA	2.02	0.41
1:A:668:ARG:HD2	1:B:669:PHE:CG	2.55	0.41
1:B:351:GLY:O	1:B:364:ARG:HB3	2.20	0.41
1:B:370:SER:OG	1:B:371:LYS:HG3	2.20	0.41
1:B:514:LYS:HA	1:B:521:PHE:HA	2.02	0.41
1:B:721:GLN:O	1:B:723:ASN:N	2.53	0.41
1:C:202:ILE:HG13	1:C:213:VAL:HG21	2.03	0.41
1:C:240:LYS:C	1:C:242:ASP:N	2.72	0.41
1:C:298:PHE:HB2	1:C:412:TRP:CD2	2.55	0.41
1:C:402:TYR:HB3	1:C:449:ILE:HG22	2.02	0.41
1:C:568:THR:C	1:C:570:MET:H	2.23	0.41
1:D:174:ARG:HG2	1:D:174:ARG:HH11	1.86	0.41
1:D:232:LEU:HB2	1:D:373:VAL:CG1	2.50	0.41
1:D:654:SER:CA	1:D:657:THR:HG22	2.50	0.41
1:E:190:ILE:CG2	1:E:191:GLN:N	2.81	0.41
1:E:565:TYR:HE1	1:E:575:GLU:HB3	1.82	0.41
1:E:664:GLU:N	1:E:664:GLU:CD	2.68	0.41
1:E:698:ARG:HA	1:E:707:HIS:HE2	1.85	0.41
1:E:641:TRP:CD2	1:F:316:PHE:HD2	2.39	0.41
1:F:449:ILE:O	1:F:449:ILE:HG23	2.20	0.41
1:F:513:VAL:HB	1:F:522:LEU:HD12	2.02	0.41
1:G:143:THR:O	1:G:147:LEU:HG	2.20	0.41
1:G:398:GLU:N	1:G:399:PRO:CD	2.83	0.41
1:G:503:TYR:HD1	1:G:532:VAL:HG21	1.85	0.41
1:H:161:LYS:HA	1:H:164:ASN:ND2	2.22	0.41
1:H:238:GLY:CA	1:H:257:VAL:HB	2.49	0.41
1:H:300:HIS:NE2	1:H:458:PHE:C	2.72	0.41
1:H:503:TYR:HD1	1:H:532:VAL:HG21	1.85	0.41
1:A:306:GLY:N	1:A:459:GLY:O	2.53	0.41
1:A:398:GLU:N	1:A:399:PRO:CD	2.84	0.41
1:A:148:ASN:HD21	1:A:416:ALA:HB2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:619:LEU:C	1:A:619:LEU:HD23	2.40	0.41
2:A:761:NAG:O7	2:A:761:NAG:H3	2.20	0.41
1:B:240:LYS:C	1:B:242:ASP:N	2.72	0.41
1:B:386:ILE:HG22	1:B:454:SER:HB3	2.02	0.41
1:A:754:TRP:NE1	1:B:449:ILE:HD12	2.35	0.41
1:B:498:ALA:CB	1:B:553:VAL:HA	2.50	0.41
1:B:566:LEU:HA	1:B:566:LEU:HD12	1.92	0.41
1:B:709:LEU:CB	1:B:710:PRO:HD3	2.51	0.41
1:C:208:ARG:O	1:C:209:LEU:CD1	2.61	0.41
1:C:310:THR:OG1	1:C:465:GLU:OE1	2.39	0.41
1:C:488:VAL:HG13	1:C:586:VAL:CG1	2.51	0.41
1:C:509:THR:C	1:C:511:GLN:N	2.74	0.41
1:C:669:PHE:CD2	1:D:668:ARG:HD2	2.56	0.41
1:D:232:LEU:CD1	1:D:256:ILE:HG13	2.49	0.41
1:E:232:LEU:HB2	1:E:373:VAL:CG1	2.49	0.41
1:E:237:PHE:O	1:E:238:GLY:C	2.57	0.41
1:E:308:PRO:HG2	1:E:309:TYR:CE1	2.55	0.41
1:F:211:TYR:CD2	1:F:213:VAL:N	2.89	0.41
1:F:214:GLU:C	1:F:216:PRO:HD3	2.40	0.41
1:F:239:THR:O	1:F:241:LYS:N	2.54	0.41
1:F:240:LYS:C	1:F:242:ASP:N	2.72	0.41
1:F:280:LEU:C	1:F:281:ILE:HD12	2.40	0.41
1:F:589:ALA:O	1:F:592:GLU:N	2.53	0.41
1:F:444:PRO:CB	1:F:602:THR:HG21	2.41	0.41
1:G:187:PHE:CZ	1:G:385:LYS:HG3	2.55	0.41
1:H:190:ILE:HG23	1:H:191:GLN:N	2.34	0.41
1:H:232:LEU:CD1	1:H:254:ILE:HG22	2.50	0.41
1:H:349:MET:HA	1:H:367:THR:CA	2.49	0.41
1:A:641:TRP:CZ2	2:B:762:NAG:H82	2.56	0.41
1:B:213:VAL:HG11	1:B:345:LEU:CD2	2.47	0.41
1:B:237:PHE:O	1:B:238:GLY:C	2.59	0.41
1:B:654:SER:HA	1:B:657:THR:CG2	2.50	0.41
1:C:191:GLN:HB3	1:C:222:TYR:H	1.85	0.41
1:C:254:ILE:HG22	1:C:255:VAL:N	2.35	0.41
1:C:402:TYR:CD1	1:C:402:TYR:N	2.88	0.41
1:B:528:TRP:CH2	1:C:500:PRO:HA	2.56	0.41
1:D:203:VAL:HG23	1:D:207:GLY:O	2.21	0.41
1:D:398:GLU:N	1:D:399:PRO:CD	2.83	0.41
1:D:516:PRO:HG3	1:D:586:VAL:HA	2.02	0.41
1:D:639:LEU:O	1:D:643:TYR:CD1	2.73	0.41
1:E:201:ILE:HD12	1:E:202:ILE:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:236:ASN:O	1:E:243:PHE:HD1	2.04	0.41
1:E:280:LEU:HA	1:E:335:GLN:O	2.19	0.41
1:E:585:LYS:O	1:E:588:ARG:HB3	2.20	0.41
1:F:188:VAL:HG23	1:F:190:ILE:HD13	2.01	0.41
1:F:284:ASP:OD1	1:F:287:LYS:HB2	2.21	0.41
1:F:588:ARG:NH1	1:F:588:ARG:HG3	2.35	0.41
1:G:238:GLY:C	1:G:240:LYS:N	2.72	0.41
2:G:761:NAG:O7	2:G:761:NAG:H3	2.20	0.41
2:G:762:NAG:H82	1:H:641:TRP:CZ2	2.56	0.41
1:H:222:TYR:CD2	1:H:308:PRO:HG3	2.56	0.41
1:H:280:LEU:HD22	1:H:280:LEU:N	2.36	0.41
1:H:169:VAL:HG13	1:H:427:LEU:HD21	2.03	0.41
1:H:721:GLN:C	1:H:723:ASN:H	2.23	0.41
1:H:737:LEU:C	1:H:739:THR:N	2.74	0.41
1:A:198:ASN:OD1	1:A:377:VAL:HA	2.19	0.41
1:A:280:LEU:HD22	1:A:280:LEU:N	2.36	0.41
1:A:348:ASN:ND2	1:A:348:ASN:N	2.67	0.41
1:A:664:GLU:C	1:A:666:THR:N	2.74	0.41
1:B:123:TYR:O	1:B:126:ASP:HB2	2.20	0.41
1:B:201:ILE:HD13	1:B:211:TYR:C	2.41	0.41
1:B:619:LEU:HD13	1:C:612:GLU:CD	2.40	0.41
1:B:720:LYS:C	1:B:722:ASN:H	2.24	0.41
1:C:351:GLY:O	1:C:364:ARG:HB3	2.20	0.41
1:C:539:ASN:C	1:C:539:ASN:ND2	2.74	0.41
1:C:553:VAL:HG11	1:C:597:PHE:CD2	2.56	0.41
1:C:669:PHE:CE2	1:D:668:ARG:HD2	2.55	0.41
2:C:761:NAG:H3	2:C:761:NAG:O7	2.20	0.41
1:D:488:VAL:HG11	1:D:583:LEU:HD12	2.01	0.41
1:D:721:GLN:C	1:D:723:ASN:H	2.23	0.41
2:D:761:NAG:H3	2:D:761:NAG:O7	2.21	0.41
1:E:212:LEU:O	1:E:212:LEU:HG	2.20	0.41
1:E:535:LEU:HD22	1:E:535:LEU:N	2.35	0.41
1:E:568:THR:C	1:E:570:MET:H	2.22	0.41
1:E:444:PRO:CB	1:E:602:THR:HG21	2.38	0.41
1:E:655:ARG:O	1:E:658:THR:N	2.52	0.41
1:F:250:VAL:O	1:F:252:GLY:N	2.53	0.41
1:F:307:ASP:HB3	1:F:310:THR:HG23	2.02	0.41
1:F:351:GLY:O	1:F:364:ARG:HB3	2.20	0.41
1:G:287:LYS:HB3	1:G:288:PHE:CD1	2.56	0.41
1:G:639:LEU:O	1:G:643:TYR:CD1	2.74	0.41
1:G:664:GLU:N	1:G:664:GLU:CD	2.70	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:568:THR:C	1:H:570:MET:H	2.24	0.41
1:A:317:ASN:OD1	2:A:762:NAG:O7	2.39	0.41
1:A:730:LEU:O	1:A:734:GLN:HG3	2.21	0.41
1:A:740:TRP:CH2	1:B:314:PRO:HB2	2.55	0.41
1:B:585:LYS:O	1:B:588:ARG:HB3	2.21	0.41
1:B:754:TRP:HA	1:B:754:TRP:HE3	1.84	0.41
1:C:127:LEU:N	1:C:127:LEU:CD2	2.83	0.41
1:C:377:VAL:O	1:C:377:VAL:HG23	2.20	0.41
1:C:398:GLU:N	1:C:399:PRO:CD	2.83	0.41
1:C:392:VAL:HG12	1:C:449:ILE:HB	2.02	0.41
1:C:712:LEU:HD23	1:C:712:LEU:C	2.41	0.41
1:D:360:ASP:O	1:D:361:SER:O	2.39	0.41
1:D:610:ASP:HB3	1:D:613:GLU:CG	2.50	0.41
1:E:146:LEU:C	1:E:148:ASN:H	2.24	0.41
1:E:210:VAL:CG1	1:E:211:TYR:N	2.77	0.41
1:E:232:LEU:HD13	1:E:254:ILE:CG2	2.51	0.41
1:E:235:ALA:O	1:E:236:ASN:C	2.58	0.41
1:E:449:ILE:HG23	1:E:449:ILE:O	2.21	0.41
1:E:654:SER:HA	1:E:657:THR:CG2	2.50	0.41
1:E:754:TRP:HA	1:E:754:TRP:HE3	1.86	0.41
1:F:471:LEU:HD13	1:F:547:TYR:HH	1.86	0.41
1:G:174:ARG:HG2	1:G:174:ARG:HH11	1.86	0.41
1:G:232:LEU:CD1	1:G:256:ILE:HG13	2.51	0.41
1:G:402:TYR:CD1	1:G:402:TYR:N	2.88	0.41
1:G:719:ARG:HD3	1:G:726:PHE:CE2	2.55	0.41
1:H:307:ASP:HB3	1:H:310:THR:HG23	2.01	0.41
1:A:188:VAL:HB	1:A:307:ASP:HB2	2.03	0.41
1:A:335:GLN:NE2	1:A:336:THR:N	2.68	0.41
1:B:253:SER:C	1:B:277:ILE:HD12	2.41	0.41
1:B:327:SER:N	1:B:329:LEU:HD12	2.35	0.41
1:B:326:SER:N	1:B:329:LEU:HD13	2.35	0.41
1:B:359:THR:CG2	1:B:360:ASP:H	2.02	0.41
1:B:488:VAL:HG21	1:B:587:ALA:HA	2.02	0.41
1:B:650:PHE:CD2	1:C:654:SER:HA	2.56	0.41
1:C:555:PHE:HZ	1:C:594:ALA:HB2	1.85	0.41
1:D:237:PHE:HD2	1:D:258:ARG:HB2	1.84	0.41
1:D:280:LEU:HA	1:D:335:GLN:O	2.21	0.41
1:C:316:PHE:HB3	1:D:641:TRP:CH2	2.56	0.41
1:E:187:PHE:HB2	1:E:316:PHE:O	2.21	0.41
1:E:314:PRO:HB2	1:F:740:TRP:CH2	2.55	0.41
1:E:349:MET:HG2	1:E:367:THR:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:491:THR:HB	1:E:517:VAL:HG21	2.03	0.41
1:F:229:THR:HB	1:F:374:LYS:HB2	2.03	0.41
1:F:415:GLY:HA2	1:F:571:ASP:OD2	2.20	0.41
1:F:723:ASN:N	1:F:723:ASN:HD22	2.18	0.41
1:G:283:MET:HG3	1:G:297:PHE:CE1	2.55	0.41
1:G:349:MET:HA	1:G:367:THR:CA	2.50	0.41
1:G:430:ALA:HA	1:G:450:PHE:CE2	2.56	0.41
1:G:633:LYS:HD3	1:G:633:LYS:O	2.20	0.41
1:G:651:ARG:HG2	1:G:651:ARG:NH1	2.36	0.41
1:H:153:VAL:HG22	1:H:154:PRO:CD	2.50	0.41
1:H:233:VAL:HG12	1:H:234:HIS:N	2.36	0.41
1:H:614:TYR:HA	1:H:617:GLN:HB2	2.01	0.41
1:H:646:ARG:CG	1:H:646:ARG:NH1	2.81	0.41
1:A:153:VAL:O	1:A:155:ARG:N	2.52	0.41
1:A:283:MET:HG3	1:A:297:PHE:CE1	2.55	0.41
1:A:335:GLN:NE2	1:A:336:THR:H	2.18	0.41
1:B:156:GLU:O	1:B:162:ASP:HB2	2.21	0.41
1:B:280:LEU:HD22	1:B:280:LEU:N	2.36	0.41
1:B:377:VAL:O	1:B:377:VAL:HG23	2.21	0.41
1:B:564:PRO:HG2	1:B:565:TYR:CD2	2.54	0.41
1:B:698:ARG:HA	1:B:707:HIS:CD2	2.56	0.41
1:B:758:ASN:N	1:B:758:ASN:ND2	2.67	0.41
1:C:174:ARG:HG2	1:C:174:ARG:HH11	1.85	0.41
1:C:180:LYS:H	1:C:180:LYS:HD2	1.85	0.41
1:C:316:PHE:HB3	1:D:641:TRP:CZ2	2.56	0.41
1:C:327:SER:N	1:C:329:LEU:HD12	2.35	0.41
1:C:176:PHE:CE1	1:C:431:GLN:HB2	2.56	0.41
1:D:237:PHE:O	1:D:238:GLY:C	2.57	0.41
1:D:264:PHE:H	1:D:264:PHE:HD1	1.69	0.41
1:D:547:TYR:HD1	1:D:696:PRO:O	2.04	0.41
1:D:749:LEU:O	1:D:749:LEU:CG	2.68	0.41
1:E:308:PRO:HG3	1:E:329:LEU:HD21	2.02	0.41
1:F:392:VAL:HG12	1:F:449:ILE:HB	2.01	0.41
1:E:314:PRO:HD2	1:F:740:TRP:CD2	2.56	0.41
1:G:200:VAL:HG23	1:G:213:VAL:HG12	2.02	0.41
1:G:214:GLU:HG2	1:G:215:ASN:N	2.35	0.41
1:F:528:TRP:CZ2	1:G:500:PRO:HA	2.56	0.41
1:G:667:ASP:O	1:G:669:PHE:N	2.53	0.41
1:H:280:LEU:HA	1:H:335:GLN:O	2.21	0.41
1:H:415:GLY:HA2	1:H:571:ASP:OD2	2.21	0.41
1:A:237:PHE:O	1:A:238:GLY:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:360:ASP:O	1:A:361:SER:O	2.39	0.41
1:A:758:ASN:ND2	1:A:758:ASN:N	2.66	0.41
1:B:190:ILE:HG23	1:B:191:GLN:N	2.36	0.41
1:C:154:PRO:HD2	1:C:161:LYS:HZ3	1.86	0.41
1:C:499:SER:O	1:C:500:PRO:C	2.59	0.41
1:C:611:TYR:OH	1:C:657:THR:HA	2.21	0.41
1:C:700:VAL:HG11	1:C:741:THR:HG21	2.03	0.41
1:C:735:LEU:C	1:C:735:LEU:HD23	2.41	0.41
1:D:610:ASP:HB3	1:D:613:GLU:HG2	2.02	0.41
1:E:173:PHE:HA	1:E:176:PHE:HD2	1.86	0.41
1:E:181:VAL:HA	1:E:391:GLY:HA2	2.02	0.41
1:E:188:VAL:HG23	1:E:190:ILE:HD13	2.02	0.41
1:D:532:VAL:HG12	1:E:528:TRP:HE1	1.86	0.41
1:E:664:GLU:C	1:E:666:THR:N	2.70	0.41
1:E:656:LEU:HD21	1:E:678:VAL:HG22	2.03	0.41
1:E:749:LEU:O	1:E:749:LEU:CG	2.69	0.41
1:E:471:LEU:HD22	1:F:689:TYR:CE2	2.56	0.41
1:G:732:ARG:NH1	1:G:732:ARG:CG	2.81	0.41
1:H:156:GLU:O	1:H:162:ASP:HB2	2.20	0.41
1:H:180:LYS:H	1:H:180:LYS:HD2	1.86	0.41
1:H:231:LYS:HB2	1:H:253:SER:HB2	2.03	0.41
1:A:349:MET:HA	1:A:367:THR:CA	2.50	0.41
1:A:430:ALA:HA	1:A:450:PHE:CE2	2.56	0.41
1:A:509:THR:C	1:A:511:GLN:H	2.24	0.41
1:A:568:THR:C	1:A:570:MET:H	2.23	0.41
1:B:193:LYS:HB2	1:B:193:LYS:NZ	2.35	0.41
1:B:235:ALA:O	1:B:236:ASN:C	2.60	0.41
1:B:222:TYR:CD2	1:B:308:PRO:HG3	2.56	0.41
1:B:458:PHE:HB2	1:B:461:VAL:HG21	2.02	0.41
1:B:624:ASP:HB2	1:C:508:LYS:NZ	2.36	0.41
1:C:369:GLU:O	1:C:371:LYS:N	2.54	0.41
1:C:603:HIS:ND1	1:C:604:ASP:OD1	2.55	0.41
1:D:209:LEU:HG	1:D:210:VAL:H	1.86	0.41
1:D:395:GLY:H	1:D:447:SER:HB3	1.85	0.41
1:D:539:ASN:ND2	1:D:539:ASN:C	2.74	0.41
1:D:753:VAL:HG12	1:D:754:TRP:N	2.36	0.41
1:E:377:VAL:O	1:E:377:VAL:HG23	2.21	0.41
1:E:409:ARG:NH1	1:E:409:ARG:HG2	2.36	0.41
1:E:390:PHE:CD2	1:E:449:ILE:HD11	2.55	0.41
1:E:513:VAL:HB	1:E:522:LEU:HD12	2.02	0.41
1:E:633:LYS:HD3	1:E:633:LYS:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:212:LEU:O	1:F:212:LEU:HD23	2.20	0.41
1:G:308:PRO:HB2	1:G:329:LEU:HD11	2.03	0.41
1:G:360:ASP:O	1:G:361:SER:O	2.39	0.41
1:H:146:LEU:C	1:H:148:ASN:H	2.25	0.41
1:H:179:SER:O	1:H:180:LYS:C	2.58	0.41
1:H:229:THR:HB	1:H:374:LYS:HB2	2.03	0.41
1:H:305:THR:HG23	1:H:305:THR:O	2.21	0.41
1:H:610:ASP:HB3	1:H:613:GLU:CG	2.51	0.41
1:H:639:LEU:O	1:H:643:TYR:CD1	2.73	0.41
1:H:664:GLU:O	1:H:666:THR:N	2.54	0.41
1:A:156:GLU:O	1:A:162:ASP:HB2	2.21	0.40
1:A:351:GLY:O	1:A:364:ARG:HB3	2.21	0.40
1:B:139:ASP:OD1	1:B:141:THR:CG2	2.68	0.40
1:B:349:MET:HB2	1:B:364:ARG:CB	2.50	0.40
1:B:667:ASP:O	1:B:669:PHE:N	2.54	0.40
1:C:295:LEU:HD12	1:C:296:SER:H	1.86	0.40
1:C:316:PHE:HD2	1:D:641:TRP:CD2	2.39	0.40
1:C:513:VAL:HB	1:C:522:LEU:HD12	2.02	0.40
1:D:402:TYR:CD1	1:D:402:TYR:N	2.88	0.40
1:D:753:VAL:HG12	1:D:754:TRP:CG	2.57	0.40
1:E:239:THR:O	1:E:241:LYS:N	2.55	0.40
1:E:720:LYS:C	1:E:722:ASN:H	2.24	0.40
1:F:222:TYR:CE2	1:F:308:PRO:HG3	2.55	0.40
1:F:428:LYS:HA	1:F:428:LYS:HD3	1.82	0.40
1:F:390:PHE:HD2	1:F:449:ILE:HD11	1.85	0.40
1:F:386:ILE:HG22	1:F:454:SER:HB3	2.02	0.40
1:E:316:PHE:HB3	1:F:641:TRP:CH2	2.56	0.40
1:E:316:PHE:HB3	1:F:641:TRP:CZ2	2.56	0.40
1:F:691:SER:HA	1:F:692:PRO:HD3	1.98	0.40
1:G:348:ASN:ND2	1:G:348:ASN:N	2.66	0.40
1:G:514:LYS:HA	1:G:521:PHE:HA	2.02	0.40
1:G:709:LEU:HD12	1:G:709:LEU:HA	1.95	0.40
1:H:204:ASP:C	1:H:206:ASN:H	2.23	0.40
1:H:238:GLY:C	1:H:240:LYS:N	2.73	0.40
1:H:300:HIS:NE2	1:H:459:GLY:N	2.68	0.40
1:H:308:PRO:CG	1:H:329:LEU:HD21	2.51	0.40
1:H:488:VAL:HG11	1:H:583:LEU:HD12	2.02	0.40
1:H:589:ALA:O	1:H:592:GLU:N	2.51	0.40
1:H:553:VAL:HG11	1:H:597:PHE:CD2	2.56	0.40
1:A:238:GLY:CA	1:A:257:VAL:HB	2.51	0.40
1:A:709:LEU:HA	1:A:709:LEU:HD12	1.97	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:287:LYS:HB3	1:B:288:PHE:CD1	2.56	0.40
1:B:298:PHE:HB2	1:B:412:TRP:CD2	2.57	0.40
1:B:488:VAL:HG11	1:B:583:LEU:HD12	2.02	0.40
1:C:287:LYS:HB3	1:C:288:PHE:CD1	2.56	0.40
1:C:498:ALA:CB	1:C:553:VAL:HA	2.51	0.40
1:C:607:LEU:HD11	1:C:609:LEU:HG	2.01	0.40
1:C:664:GLU:C	1:C:666:THR:N	2.74	0.40
1:E:188:VAL:HB	1:E:307:ASP:HB2	2.03	0.40
1:E:237:PHE:O	1:E:239:THR:N	2.54	0.40
1:E:721:GLN:C	1:E:723:ASN:H	2.24	0.40
1:F:287:LYS:HB3	1:F:288:PHE:CD1	2.56	0.40
1:F:430:ALA:HA	1:F:450:PHE:CE2	2.57	0.40
1:F:402:TYR:HB3	1:F:449:ILE:HG22	2.03	0.40
1:F:669:PHE:CD1	1:F:669:PHE:C	2.95	0.40
1:G:349:MET:HA	1:G:368:SER:H	1.87	0.40
1:G:618:LEU:HD21	1:G:742:ILE:CG2	2.50	0.40
1:H:418:LYS:O	1:H:418:LYS:HG3	2.21	0.40
1:H:603:HIS:ND1	1:H:604:ASP:OD1	2.54	0.40
1:A:235:ALA:O	1:A:236:ASN:C	2.59	0.40
1:A:278:GLY:N	1:A:332:ILE:CG2	2.82	0.40
1:A:516:PRO:HG3	1:A:586:VAL:HA	2.02	0.40
1:A:614:TYR:O	1:A:618:LEU:HB2	2.20	0.40
1:A:759:GLU:HG3	1:A:760:PHE:H	1.85	0.40
1:B:232:LEU:HD11	1:B:256:ILE:CG1	2.51	0.40
1:B:238:GLY:HA2	1:B:257:VAL:HG11	2.02	0.40
1:C:202:ILE:HG13	1:C:213:VAL:CG2	2.51	0.40
1:C:335:GLN:NE2	1:C:336:THR:H	2.20	0.40
1:C:349:MET:HB2	1:C:364:ARG:CB	2.51	0.40
1:D:211:TYR:CD2	1:D:344:LYS:HE3	2.56	0.40
1:D:308:PRO:HB2	1:D:329:LEU:HD11	2.03	0.40
1:D:278:GLY:N	1:D:332:ILE:CG2	2.82	0.40
1:D:377:VAL:HG23	1:D:377:VAL:O	2.22	0.40
1:D:444:PRO:CB	1:D:602:THR:HG21	2.40	0.40
1:D:754:TRP:HE3	1:D:754:TRP:HA	1.86	0.40
1:E:130:LYS:HA	1:E:130:LYS:HD2	1.89	0.40
1:E:194:ASP:HB2	1:E:380:VAL:HG13	2.02	0.40
1:E:240:LYS:C	1:E:242:ASP:N	2.71	0.40
1:E:280:LEU:C	1:E:281:ILE:HD12	2.41	0.40
1:E:287:LYS:HB3	1:E:288:PHE:CD1	2.56	0.40
1:E:184:ASP:N	1:E:388:ASN:O	2.54	0.40
1:E:498:ALA:CB	1:E:553:VAL:HA	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:648:ASP:CG	1:E:757:ASP:OD2	2.59	0.40
1:F:193:LYS:HB2	1:F:193:LYS:NZ	2.36	0.40
1:F:235:ALA:O	1:F:236:ASN:C	2.60	0.40
1:F:376:THR:HG23	1:F:376:THR:O	2.22	0.40
1:F:610:ASP:HB3	1:F:613:GLU:CG	2.51	0.40
1:G:280:LEU:HA	1:G:335:GLN:O	2.21	0.40
1:G:667:ASP:CB	1:G:670:VAL:HG22	2.39	0.40
1:H:127:LEU:CD2	1:H:127:LEU:N	2.84	0.40
1:H:130:LYS:HD2	1:H:130:LYS:HA	1.89	0.40
1:H:221:ALA:O	1:H:301:ALA:HB3	2.21	0.40
1:H:317:ASN:HD22	1:H:317:ASN:HA	1.70	0.40
1:H:331:ASN:O	1:H:332:ILE:HD13	2.20	0.40
1:H:509:THR:C	1:H:511:GLN:H	2.24	0.40
1:A:646:ARG:NH1	1:A:646:ARG:CG	2.81	0.40
1:B:130:LYS:HD2	1:B:130:LYS:HA	1.90	0.40
1:B:263:THR:O	1:B:264:PHE:C	2.59	0.40
1:B:398:GLU:N	1:B:399:PRO:CD	2.84	0.40
1:C:270:ASN:O	1:C:274:LEU:HD23	2.22	0.40
1:C:284:ASP:OD1	1:C:287:LYS:HB2	2.22	0.40
1:C:514:LYS:HA	1:C:521:PHE:HA	2.02	0.40
1:D:307:ASP:OD1	1:D:309:TYR:N	2.51	0.40
1:D:528:TRP:HE1	1:E:532:VAL:CG1	2.33	0.40
1:E:237:PHE:HD2	1:E:258:ARG:HB2	1.84	0.40
1:E:322:PRO:N	1:E:323:PRO:HD3	2.36	0.40
1:E:514:LYS:HA	1:E:521:PHE:HA	2.02	0.40
1:D:650:PHE:CG	1:E:657:THR:HG21	2.57	0.40
1:F:237:PHE:O	1:F:239:THR:N	2.54	0.40
1:F:308:PRO:HB2	1:F:329:LEU:HD11	2.03	0.40
1:F:491:THR:HB	1:F:517:VAL:HG21	2.03	0.40
1:F:312:GLY:HA2	1:F:547:TYR:OH	2.22	0.40
1:F:682:GLU:OE2	1:F:699:HIS:CE1	2.74	0.40
1:F:737:LEU:O	1:F:739:THR:N	2.55	0.40
1:G:156:GLU:HA	1:G:411:ALA:O	2.22	0.40
1:G:357:TRP:HE1	1:G:365:MET:CE	2.34	0.40
1:G:668:ARG:HD2	1:H:669:PHE:CE2	2.56	0.40
1:H:398:GLU:N	1:H:399:PRO:CD	2.84	0.40
1:H:612:GLU:O	1:H:614:TYR:N	2.55	0.40
1:A:415:GLY:HA2	1:A:571:ASP:CG	2.42	0.40
1:A:754:TRP:CE3	1:A:754:TRP:HA	2.56	0.40
1:B:390:PHE:CD2	1:B:449:ILE:HD11	2.56	0.40
1:B:723:ASN:C	1:B:723:ASN:HD22	2.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:754:TRP:HA	1:B:754:TRP:CE3	2.56	0.40
1:C:130:LYS:HD2	1:C:130:LYS:HA	1.92	0.40
1:C:449:ILE:HG23	1:C:449:ILE:O	2.22	0.40
1:C:667:ASP:CG	1:C:670:VAL:HG13	2.42	0.40
1:D:409:ARG:NH1	1:D:409:ARG:HG2	2.37	0.40
1:E:497:SER:OG	1:E:533:GLU:HB3	2.21	0.40
1:E:716:LEU:HD13	1:E:731:PHE:CZ	2.56	0.40
1:F:201:ILE:HD11	1:F:211:TYR:O	2.21	0.40
1:F:514:LYS:HA	1:F:521:PHE:HA	2.02	0.40
1:F:483:ASN:HD21	1:F:540:ALA:HB3	1.87	0.40
1:F:553:VAL:CG2	1:F:554:SER:N	2.85	0.40
1:F:719:ARG:CG	1:F:719:ARG:NH1	2.84	0.40
1:G:585:LYS:O	1:G:588:ARG:HB3	2.22	0.40
1:H:370:SER:OG	1:H:371:LYS:HG3	2.21	0.40
1:H:683:TYR:CD1	1:H:686:LEU:HD12	2.56	0.40
1:H:699:HIS:CD2	1:H:702:TRP:H	2.39	0.40
1:H:754:TRP:HA	1:H:754:TRP:CE3	2.56	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 X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	637/639 (100%)	498 (78%)	101 (16%)	38 (6%)	2	16
1	B	637/639 (100%)	498 (78%)	100 (16%)	39 (6%)	2	15
1	C	637/639 (100%)	498 (78%)	103 (16%)	36 (6%)	2	17
1	D	637/639 (100%)	496 (78%)	106 (17%)	35 (6%)	2	18
1	E	637/639 (100%)	498 (78%)	102 (16%)	37 (6%)	2	17
1	F	637/639 (100%)	498 (78%)	105 (16%)	34 (5%)	2	19
1	G	637/639 (100%)	498 (78%)	101 (16%)	38 (6%)	2	16

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	H	637/639 (100%)	496 (78%)	108 (17%)	33 (5%)	2	19
All	All	5096/5112 (100%)	3980 (78%)	826 (16%)	290 (6%)	2	17

All (290) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	206	ASN
1	A	210	VAL
1	A	251	ASN
1	A	330	PRO
1	A	361	SER
1	A	362	THR
1	A	722	ASN
1	A	750	SER
1	A	753	VAL
1	A	759	GLU
1	B	179	SER
1	B	207	GLY
1	B	210	VAL
1	B	251	ASN
1	B	361	SER
1	B	362	THR
1	B	722	ASN
1	B	750	SER
1	B	753	VAL
1	B	759	GLU
1	C	179	SER
1	C	205	LYS
1	C	208	ARG
1	C	210	VAL
1	C	236	ASN
1	C	251	ASN
1	C	361	SER
1	C	362	THR
1	C	722	ASN
1	C	750	SER
1	C	753	VAL
1	C	759	GLU
1	D	210	VAL
1	D	251	ASN
1	D	330	PRO
1	D	361	SER

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Mol	Chain	Res	Type
1	D	722	ASN
1	D	750	SER
1	D	753	VAL
1	D	759	GLU
1	E	179	SER
1	E	207	GLY
1	E	208	ARG
1	E	210	VAL
1	E	251	ASN
1	E	330	PRO
1	E	361	SER
1	E	362	THR
1	E	750	SER
1	E	753	VAL
1	E	759	GLU
1	F	205	LYS
1	F	210	VAL
1	F	213	VAL
1	F	330	PRO
1	F	361	SER
1	F	362	THR
1	F	722	ASN
1	F	750	SER
1	F	753	VAL
1	F	759	GLU
1	G	179	SER
1	G	207	GLY
1	G	209	LEU
1	G	222	TYR
1	G	251	ASN
1	G	361	SER
1	G	362	THR
1	G	722	ASN
1	G	750	SER
1	G	753	VAL
1	G	759	GLU
1	H	207	GLY
1	H	208	ARG
1	H	210	VAL
1	H	213	VAL
1	H	222	TYR
1	H	251	ASN

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Mol	Chain	Res	Type
1	H	361	SER
1	H	722	ASN
1	H	750	SER
1	H	753	VAL
1	H	759	GLU
1	A	179	SER
1	A	207	GLY
1	A	209	LEU
1	A	236	ASN
1	A	613	GLU
1	B	213	VAL
1	B	222	TYR
1	B	238	GLY
1	B	278	GLY
1	B	330	PRO
1	B	665	LYS
1	C	207	GLY
1	C	222	TYR
1	C	238	GLY
1	C	239	THR
1	C	330	PRO
1	C	613	GLU
1	C	665	LYS
1	D	179	SER
1	D	209	LEU
1	D	236	ASN
1	D	325	ARG
1	D	362	THR
1	D	665	LYS
1	E	222	TYR
1	E	236	ASN
1	E	237	PHE
1	E	238	GLY
1	E	613	GLU
1	E	665	LYS
1	E	722	ASN
1	F	179	SER
1	F	222	TYR
1	F	236	ASN
1	F	237	PHE
1	F	238	GLY
1	F	251	ASN

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Mol	Chain	Res	Type
1	F	613	GLU
1	F	665	LYS
1	G	210	VAL
1	G	214	GLU
1	G	236	ASN
1	G	238	GLY
1	G	330	PRO
1	G	665	LYS
1	H	179	SER
1	H	236	ASN
1	H	238	GLY
1	H	330	PRO
1	H	362	THR
1	A	208	ARG
1	A	222	TYR
1	A	237	PHE
1	A	238	GLY
1	A	239	THR
1	A	278	GLY
1	A	322	PRO
1	A	325	ARG
1	A	370	SER
1	A	558	CYS
1	A	581	PRO
1	A	665	LYS
1	B	236	ASN
1	B	237	PHE
1	B	322	PRO
1	B	325	ARG
1	B	581	PRO
1	C	237	PHE
1	C	278	GLY
1	C	322	PRO
1	C	325	ARG
1	C	540	ALA
1	C	581	PRO
1	D	222	TYR
1	D	237	PHE
1	D	238	GLY
1	D	239	THR
1	D	322	PRO
1	D	569	THR

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Mol	Chain	Res	Type
1	D	581	PRO
1	D	613	GLU
1	E	204	ASP
1	E	278	GLY
1	E	322	PRO
1	E	325	ARG
1	E	558	CYS
1	E	581	PRO
1	F	239	THR
1	F	278	GLY
1	F	322	PRO
1	F	325	ARG
1	F	370	SER
1	F	540	ALA
1	G	237	PHE
1	G	322	PRO
1	G	325	ARG
1	G	370	SER
1	G	558	CYS
1	G	566	LEU
1	G	581	PRO
1	G	613	GLU
1	H	237	PHE
1	H	278	GLY
1	H	322	PRO
1	H	325	ARG
1	H	370	SER
1	H	558	CYS
1	H	566	LEU
1	H	581	PRO
1	H	613	GLU
1	H	665	LYS
1	A	180	LYS
1	A	566	LEU
1	B	204	ASP
1	B	212	LEU
1	B	239	THR
1	B	566	LEU
1	B	613	GLU
1	C	216	PRO
1	C	370	SER
1	C	558	CYS

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Mol	Chain	Res	Type
1	D	278	GLY
1	D	370	SER
1	D	566	LEU
1	E	239	THR
1	E	370	SER
1	F	581	PRO
1	G	180	LYS
1	G	239	THR
1	G	278	GLY
1	G	569	THR
1	G	668	ARG
1	H	180	LYS
1	H	239	THR
1	A	213	VAL
1	A	507	GLU
1	B	180	LYS
1	B	205	LYS
1	B	240	LYS
1	B	370	SER
1	B	540	ALA
1	B	558	CYS
1	B	668	ARG
1	C	537	LEU
1	C	566	LEU
1	D	180	LYS
1	D	216	PRO
1	D	558	CYS
1	E	153	VAL
1	E	247	TYR
1	E	351	GLY
1	E	507	GLU
1	E	566	LEU
1	E	569	THR
1	E	668	ARG
1	F	180	LYS
1	F	566	LEU
1	G	208	ARG
1	A	153	VAL
1	A	205	LYS
1	A	569	THR
1	B	153	VAL
1	B	247	TYR

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Mol	Chain	Res	Type
1	B	351	GLY
1	C	153	VAL
1	C	240	LYS
1	D	153	VAL
1	D	205	LYS
1	D	540	ALA
1	D	668	ARG
1	E	180	LYS
1	F	153	VAL
1	F	261	LYS
1	F	351	GLY
1	F	507	GLU
1	G	153	VAL
1	G	540	ALA
1	H	153	VAL
1	B	216	PRO
1	D	213	VAL
1	D	351	GLY
1	G	216	PRO
1	G	351	GLY
1	H	216	PRO
1	H	351	GLY
1	A	216	PRO
1	B	564	PRO
1	C	213	VAL
1	C	351	GLY
1	E	564	PRO
1	G	213	VAL
1	G	564	PRO
1	A	351	GLY
1	C	564	PRO
1	C	756	ILE
1	D	756	ILE
1	F	216	PRO
1	F	564	PRO
1	G	756	ILE
1	H	564	PRO
1	A	564	PRO
1	A	756	ILE
1	B	756	ILE
1	E	216	PRO
1	E	756	ILE

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Mol	Chain	Res	Type
1	F	756	ILE
1	H	756	ILE

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 X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	548/548 (100%)	505 (92%)	43 (8%)	16	53
1	B	548/548 (100%)	507 (92%)	41 (8%)	17	55
1	C	548/548 (100%)	503 (92%)	45 (8%)	14	50
1	D	548/548 (100%)	504 (92%)	44 (8%)	15	52
1	E	548/548 (100%)	508 (93%)	40 (7%)	17	57
1	F	548/548 (100%)	505 (92%)	43 (8%)	16	53
1	G	548/548 (100%)	505 (92%)	43 (8%)	16	53
1	H	548/548 (100%)	508 (93%)	40 (7%)	17	57
All	All	4384/4384 (100%)	4045 (92%)	339 (8%)	16	54

All (339) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	125	ASP
1	A	135	LEU
1	A	148	ASN
1	A	152	TYR
1	A	153	VAL
1	A	181	VAL
1	A	197	GLN
1	A	203	VAL
1	A	204	ASP
1	A	211	TYR
1	A	224	LYS
1	A	277	ILE
1	A	310	THR

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Mol	Chain	Res	Type
1	A	322	PRO
1	A	325	ARG
1	A	330	PRO
1	A	348	ASN
1	A	353	CYS
1	A	357	TRP
1	A	365	MET
1	A	371	LYS
1	A	418	LYS
1	A	426	LEU
1	A	446	ARG
1	A	457	ASP
1	A	525	ASP
1	A	537	LEU
1	A	539	ASN
1	A	562	ASP
1	A	581	PRO
1	A	582	GLU
1	A	588	ARG
1	A	603	HIS
1	A	606	GLU
1	A	610	ASP
1	A	619	LEU
1	A	646	ARG
1	A	648	ASP
1	A	664	GLU
1	A	723	ASN
1	A	743	GLN
1	A	757	ASP
1	A	758	ASN
1	B	125	ASP
1	B	148	ASN
1	B	152	TYR
1	B	153	VAL
1	B	181	VAL
1	B	197	GLN
1	B	203	VAL
1	B	208	ARG
1	B	224	LYS
1	B	277	ILE
1	B	310	THR
1	B	322	PRO

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Mol	Chain	Res	Type
1	B	325	ARG
1	B	330	PRO
1	B	348	ASN
1	B	353	CYS
1	B	357	TRP
1	B	365	MET
1	B	371	LYS
1	B	418	LYS
1	B	426	LEU
1	B	446	ARG
1	B	457	ASP
1	B	525	ASP
1	B	537	LEU
1	B	539	ASN
1	B	562	ASP
1	B	581	PRO
1	B	588	ARG
1	B	603	HIS
1	B	606	GLU
1	B	619	LEU
1	B	646	ARG
1	B	648	ASP
1	B	660	PHE
1	B	664	GLU
1	B	723	ASN
1	B	732	ARG
1	B	743	GLN
1	B	757	ASP
1	B	758	ASN
1	C	125	ASP
1	C	135	LEU
1	C	148	ASN
1	C	152	TYR
1	C	153	VAL
1	C	181	VAL
1	C	197	GLN
1	C	203	VAL
1	C	206	ASN
1	C	208	ARG
1	C	211	TYR
1	C	212	LEU
1	C	224	LYS

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Mol	Chain	Res	Type
1	C	277	ILE
1	C	310	THR
1	C	322	PRO
1	C	325	ARG
1	C	330	PRO
1	C	348	ASN
1	C	353	CYS
1	C	357	TRP
1	C	365	MET
1	C	371	LYS
1	C	418	LYS
1	C	426	LEU
1	C	446	ARG
1	C	457	ASP
1	C	525	ASP
1	C	537	LEU
1	C	539	ASN
1	C	562	ASP
1	C	581	PRO
1	C	588	ARG
1	C	603	HIS
1	C	606	GLU
1	C	619	LEU
1	C	646	ARG
1	C	648	ASP
1	C	664	GLU
1	C	710	PRO
1	C	723	ASN
1	C	732	ARG
1	C	743	GLN
1	C	757	ASP
1	C	758	ASN
1	D	125	ASP
1	D	135	LEU
1	D	148	ASN
1	D	152	TYR
1	D	153	VAL
1	D	181	VAL
1	D	197	GLN
1	D	203	VAL
1	D	208	ARG
1	D	224	LYS

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Mol	Chain	Res	Type
1	D	277	ILE
1	D	310	THR
1	D	322	PRO
1	D	325	ARG
1	D	330	PRO
1	D	353	CYS
1	D	357	TRP
1	D	365	MET
1	D	371	LYS
1	D	418	LYS
1	D	426	LEU
1	D	446	ARG
1	D	457	ASP
1	D	525	ASP
1	D	537	LEU
1	D	539	ASN
1	D	562	ASP
1	D	581	PRO
1	D	582	GLU
1	D	588	ARG
1	D	603	HIS
1	D	606	GLU
1	D	610	ASP
1	D	619	LEU
1	D	646	ARG
1	D	648	ASP
1	D	664	GLU
1	D	710	PRO
1	D	719	ARG
1	D	723	ASN
1	D	732	ARG
1	D	743	GLN
1	D	757	ASP
1	D	758	ASN
1	E	125	ASP
1	E	135	LEU
1	E	148	ASN
1	E	152	TYR
1	E	153	VAL
1	E	181	VAL
1	E	197	GLN
1	E	203	VAL

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Mol	Chain	Res	Type
1	E	211	TYR
1	E	224	LYS
1	E	277	ILE
1	E	310	THR
1	E	322	PRO
1	E	325	ARG
1	E	330	PRO
1	E	353	CYS
1	E	357	TRP
1	E	365	MET
1	E	371	LYS
1	E	418	LYS
1	E	426	LEU
1	E	446	ARG
1	E	457	ASP
1	E	525	ASP
1	E	537	LEU
1	E	539	ASN
1	E	562	ASP
1	E	581	PRO
1	E	588	ARG
1	E	603	HIS
1	E	606	GLU
1	E	619	LEU
1	E	646	ARG
1	E	648	ASP
1	E	664	GLU
1	E	723	ASN
1	E	732	ARG
1	E	743	GLN
1	E	757	ASP
1	E	758	ASN
1	F	125	ASP
1	F	135	LEU
1	F	148	ASN
1	F	152	TYR
1	F	153	VAL
1	F	181	VAL
1	F	197	GLN
1	F	203	VAL
1	F	208	ARG
1	F	212	LEU

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Mol	Chain	Res	Type
1	F	224	LYS
1	F	277	ILE
1	F	310	THR
1	F	322	PRO
1	F	325	ARG
1	F	330	PRO
1	F	348	ASN
1	F	353	CYS
1	F	357	TRP
1	F	365	MET
1	F	371	LYS
1	F	418	LYS
1	F	426	LEU
1	F	446	ARG
1	F	457	ASP
1	F	525	ASP
1	F	537	LEU
1	F	539	ASN
1	F	562	ASP
1	F	581	PRO
1	F	582	GLU
1	F	588	ARG
1	F	603	HIS
1	F	606	GLU
1	F	619	LEU
1	F	646	ARG
1	F	648	ASP
1	F	664	GLU
1	F	710	PRO
1	F	723	ASN
1	F	743	GLN
1	F	757	ASP
1	F	758	ASN
1	G	125	ASP
1	G	135	LEU
1	G	148	ASN
1	G	152	TYR
1	G	153	VAL
1	G	181	VAL
1	G	197	GLN
1	G	203	VAL
1	G	208	ARG

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Mol	Chain	Res	Type
1	G	224	LYS
1	G	277	ILE
1	G	310	THR
1	G	322	PRO
1	G	325	ARG
1	G	330	PRO
1	G	348	ASN
1	G	353	CYS
1	G	357	TRP
1	G	365	MET
1	G	371	LYS
1	G	418	LYS
1	G	426	LEU
1	G	446	ARG
1	G	457	ASP
1	G	525	ASP
1	G	537	LEU
1	G	539	ASN
1	G	562	ASP
1	G	581	PRO
1	G	588	ARG
1	G	603	HIS
1	G	606	GLU
1	G	619	LEU
1	G	646	ARG
1	G	648	ASP
1	G	664	GLU
1	G	710	PRO
1	G	719	ARG
1	G	723	ASN
1	G	732	ARG
1	G	743	GLN
1	G	757	ASP
1	G	758	ASN
1	H	125	ASP
1	H	135	LEU
1	H	148	ASN
1	H	152	TYR
1	H	153	VAL
1	H	181	VAL
1	H	197	GLN
1	H	203	VAL

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Mol	Chain	Res	Type
1	H	224	LYS
1	H	277	ILE
1	H	310	THR
1	H	322	PRO
1	H	325	ARG
1	H	330	PRO
1	H	348	ASN
1	H	353	CYS
1	H	357	TRP
1	H	365	MET
1	H	371	LYS
1	H	418	LYS
1	H	426	LEU
1	H	446	ARG
1	H	457	ASP
1	H	525	ASP
1	H	537	LEU
1	H	539	ASN
1	H	562	ASP
1	H	581	PRO
1	H	588	ARG
1	H	603	HIS
1	H	606	GLU
1	H	610	ASP
1	H	619	LEU
1	H	646	ARG
1	H	648	ASP
1	H	664	GLU
1	H	723	ASN
1	H	743	GLN
1	H	757	ASP
1	H	758	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (146) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	148	ASN
1	A	160	GLN
1	A	164	ASN
1	A	191	GLN
1	A	215	ASN
1	A	275	ASN

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Mol	Chain	Res	Type
1	A	335	GLN
1	A	348	ASN
1	A	408	GLN
1	A	515	HIS
1	A	539	ASN
1	A	662	ASN
1	A	684	HIS
1	A	699	HIS
1	A	723	ASN
1	A	758	ASN
1	B	148	ASN
1	B	160	GLN
1	B	164	ASN
1	B	191	GLN
1	B	270	ASN
1	B	275	ASN
1	B	335	GLN
1	B	348	ASN
1	B	408	GLN
1	B	512	ASN
1	B	515	HIS
1	B	520	GLN
1	B	539	ASN
1	B	617	GLN
1	B	627	GLN
1	B	662	ASN
1	B	684	HIS
1	B	699	HIS
1	B	723	ASN
1	B	758	ASN
1	C	148	ASN
1	C	160	GLN
1	C	164	ASN
1	C	191	GLN
1	C	275	ASN
1	C	335	GLN
1	C	348	ASN
1	C	408	GLN
1	C	512	ASN
1	C	515	HIS
1	C	520	GLN
1	C	539	ASN

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Mol	Chain	Res	Type
1	C	603	HIS
1	C	617	GLN
1	C	627	GLN
1	C	662	ASN
1	C	684	HIS
1	C	699	HIS
1	C	723	ASN
1	C	758	ASN
1	D	148	ASN
1	D	160	GLN
1	D	164	ASN
1	D	191	GLN
1	D	275	ASN
1	D	335	GLN
1	D	348	ASN
1	D	408	GLN
1	D	512	ASN
1	D	515	HIS
1	D	520	GLN
1	D	539	ASN
1	D	627	GLN
1	D	662	ASN
1	D	684	HIS
1	D	699	HIS
1	D	723	ASN
1	D	758	ASN
1	E	148	ASN
1	E	160	GLN
1	E	164	ASN
1	E	191	GLN
1	E	275	ASN
1	E	335	GLN
1	E	348	ASN
1	E	408	GLN
1	E	512	ASN
1	E	515	HIS
1	E	520	GLN
1	E	539	ASN
1	E	627	GLN
1	E	662	ASN
1	E	684	HIS
1	E	699	HIS

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Mol	Chain	Res	Type
1	E	723	ASN
1	E	758	ASN
1	F	148	ASN
1	F	160	GLN
1	F	164	ASN
1	F	191	GLN
1	F	206	ASN
1	F	275	ASN
1	F	335	GLN
1	F	408	GLN
1	F	512	ASN
1	F	515	HIS
1	F	520	GLN
1	F	539	ASN
1	F	617	GLN
1	F	627	GLN
1	F	662	ASN
1	F	684	HIS
1	F	699	HIS
1	F	723	ASN
1	F	758	ASN
1	G	148	ASN
1	G	160	GLN
1	G	164	ASN
1	G	191	GLN
1	G	275	ASN
1	G	335	GLN
1	G	348	ASN
1	G	408	GLN
1	G	512	ASN
1	G	515	HIS
1	G	520	GLN
1	G	539	ASN
1	G	603	HIS
1	G	617	GLN
1	G	627	GLN
1	G	662	ASN
1	G	684	HIS
1	G	699	HIS
1	G	723	ASN
1	G	758	ASN
1	H	148	ASN

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Mol	Chain	Res	Type
1	H	160	GLN
1	H	164	ASN
1	H	191	GLN
1	H	206	ASN
1	H	275	ASN
1	H	335	GLN
1	H	408	GLN
1	H	515	HIS
1	H	539	ASN
1	H	662	ASN
1	H	684	HIS
1	H	699	HIS
1	H	723	ASN
1	H	758	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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 48 ligands modelled in this entry, 24 are monoatomic - leaving 24 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	NAG	A	761	1	14,14,15	0.67	0	15,19,21	0.56	0
2	NAG	A	762	1	14,14,15	0.57	0	15,19,21	0.69	0
2	NAG	A	763	1	14,14,15	0.50	0	15,19,21	0.82	1 (6%)
2	NAG	B	761	1	14,14,15	0.65	0	15,19,21	0.57	0
2	NAG	B	762	1	14,14,15	0.56	0	15,19,21	0.66	0
2	NAG	B	763	1	14,14,15	0.52	0	15,19,21	0.82	1 (6%)
2	NAG	C	761	1	14,14,15	0.62	0	15,19,21	0.56	0
2	NAG	C	762	1	14,14,15	0.57	0	15,19,21	0.65	0
2	NAG	C	763	1	14,14,15	0.54	0	15,19,21	0.85	1 (6%)
2	NAG	D	761	1	14,14,15	0.70	0	15,19,21	0.52	0
2	NAG	D	762	1	14,14,15	0.54	0	15,19,21	0.67	1 (6%)
2	NAG	D	763	1	14,14,15	0.53	0	15,19,21	0.71	1 (6%)
2	NAG	E	761	1	14,14,15	0.75	0	15,19,21	0.55	0
2	NAG	E	762	1	14,14,15	0.58	0	15,19,21	0.74	1 (6%)
2	NAG	E	763	1	14,14,15	0.57	0	15,19,21	0.79	1 (6%)
2	NAG	F	761	1	14,14,15	0.64	0	15,19,21	0.54	0
2	NAG	F	762	1	14,14,15	0.57	0	15,19,21	0.66	0
2	NAG	F	763	1	14,14,15	0.52	0	15,19,21	0.81	1 (6%)
2	NAG	G	761	1	14,14,15	0.73	0	15,19,21	0.56	0
2	NAG	G	762	1	14,14,15	0.57	0	15,19,21	0.69	0
2	NAG	G	763	1	14,14,15	0.49	0	15,19,21	0.79	1 (6%)
2	NAG	H	761	1	14,14,15	0.72	0	15,19,21	0.59	0
2	NAG	H	762	1	14,14,15	0.57	0	15,19,21	0.69	1 (6%)
2	NAG	H	763	1	14,14,15	0.61	0	15,19,21	0.80	1 (6%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	NAG	A	761	1	-	0/6/23/26	0/1/1/1
2	NAG	A	762	1	-	0/6/23/26	0/1/1/1
2	NAG	A	763	1	-	0/6/23/26	0/1/1/1
2	NAG	B	761	1	-	0/6/23/26	0/1/1/1
2	NAG	B	762	1	-	0/6/23/26	0/1/1/1
2	NAG	B	763	1	-	0/6/23/26	0/1/1/1
2	NAG	C	761	1	-	0/6/23/26	0/1/1/1
2	NAG	C	762	1	-	0/6/23/26	0/1/1/1
2	NAG	C	763	1	-	0/6/23/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	NAG	D	761	1	-	0/6/23/26	0/1/1/1
2	NAG	D	762	1	-	0/6/23/26	0/1/1/1
2	NAG	D	763	1	-	0/6/23/26	0/1/1/1
2	NAG	E	761	1	-	0/6/23/26	0/1/1/1
2	NAG	E	762	1	-	0/6/23/26	0/1/1/1
2	NAG	E	763	1	-	0/6/23/26	0/1/1/1
2	NAG	F	761	1	-	0/6/23/26	0/1/1/1
2	NAG	F	762	1	-	0/6/23/26	0/1/1/1
2	NAG	F	763	1	-	0/6/23/26	0/1/1/1
2	NAG	G	761	1	-	0/6/23/26	0/1/1/1
2	NAG	G	762	1	-	0/6/23/26	0/1/1/1
2	NAG	G	763	1	-	0/6/23/26	0/1/1/1
2	NAG	H	761	1	-	0/6/23/26	0/1/1/1
2	NAG	H	762	1	-	0/6/23/26	0/1/1/1
2	NAG	H	763	1	-	0/6/23/26	0/1/1/1

There are no bond length outliers.

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	763	NAG	C2-N2-C7	-2.73	119.55	123.11
2	A	763	NAG	C2-N2-C7	-2.68	119.62	123.11
2	B	763	NAG	C2-N2-C7	-2.59	119.73	123.11
2	E	763	NAG	C2-N2-C7	-2.54	119.80	123.11
2	F	763	NAG	C2-N2-C7	-2.51	119.84	123.11
2	H	763	NAG	C2-N2-C7	-2.46	119.91	123.11
2	G	763	NAG	C2-N2-C7	-2.30	120.11	123.11
2	E	762	NAG	C2-N2-C7	-2.10	120.38	123.11
2	D	763	NAG	C2-N2-C7	-2.09	120.39	123.11
2	H	762	NAG	C2-N2-C7	-2.08	120.40	123.11
2	D	762	NAG	C2-N2-C7	-2.06	120.43	123.11

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

13 monomers are involved in 15 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	761	NAG	1	0
2	A	762	NAG	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	761	NAG	1	0
2	B	762	NAG	2	0
2	C	761	NAG	1	0
2	C	762	NAG	1	0
2	D	761	NAG	1	0
2	D	762	NAG	1	0
2	E	762	NAG	1	0
2	F	761	NAG	1	0
2	G	761	NAG	1	0
2	G	762	NAG	1	0
2	H	761	NAG	1	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
1	A	639/639 (100%)	0.06	39 (6%)	25	13	32, 79, 98, 99	0
1	B	639/639 (100%)	-0.04	33 (5%)	31	18	24, 72, 98, 99	0
1	C	639/639 (100%)	-0.23	15 (2%)	64	49	20, 58, 91, 99	0
1	D	639/639 (100%)	-0.27	16 (2%)	61	47	17, 58, 96, 99	0
1	E	639/639 (100%)	-0.10	24 (3%)	44	29	19, 67, 98, 99	0
1	F	639/639 (100%)	-0.15	23 (3%)	46	31	20, 65, 95, 99	0
1	G	639/639 (100%)	0.04	40 (6%)	23	13	25, 79, 98, 99	0
1	H	639/639 (100%)	0.15	41 (6%)	23	13	32, 84, 98, 99	0
All	All	5112/5112 (100%)	-0.07	231 (4%)	37	23	17, 70, 98, 99	0

All (231) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	H	324	SER	8.4
1	E	758	ASN	7.4
1	G	758	ASN	6.9
1	A	758	ASN	6.7
1	F	209	LEU	6.6
1	G	759	GLU	6.5
1	E	759	GLU	6.0
1	A	368	SER	5.9
1	D	758	ASN	5.8
1	G	370	SER	5.8
1	A	370	SER	5.7
1	H	370	SER	5.7
1	E	324	SER	5.7
1	H	758	ASN	5.5
1	B	751	GLY	5.4
1	A	352	ASP	5.3

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Mol	Chain	Res	Type	RSRZ
1	H	722	ASN	5.1
1	F	722	ASN	5.0
1	B	722	ASN	4.9
1	B	758	ASN	4.8
1	F	205	LYS	4.7
1	A	722	ASN	4.7
1	C	759	GLU	4.7
1	F	758	ASN	4.7
1	D	206	ASN	4.6
1	C	360	ASP	4.6
1	F	211	TYR	4.5
1	E	194	ASP	4.5
1	A	369	GLU	4.4
1	F	759	GLU	4.4
1	F	360	ASP	4.3
1	B	326	SER	4.3
1	A	723	ASN	4.1
1	A	217	GLY	4.1
1	B	324	SER	4.1
1	D	324	SER	4.1
1	G	353	CYS	4.1
1	H	368	SER	4.1
1	H	759	GLU	4.1
1	F	358	LYS	4.0
1	G	326	SER	4.0
1	F	324	SER	4.0
1	G	359	THR	4.0
1	A	285	GLN	4.0
1	G	360	ASP	4.0
1	D	759	GLU	3.9
1	F	751	GLY	3.9
1	B	194	ASP	3.9
1	B	360	ASP	3.9
1	B	352	ASP	3.8
1	G	358	LYS	3.8
1	A	351	GLY	3.8
1	G	247	TYR	3.8
1	H	247	TYR	3.7
1	H	357	TRP	3.7
1	A	760	PHE	3.6
1	C	758	ASN	3.6
1	A	759	GLU	3.6

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Mol	Chain	Res	Type	RSRZ
1	F	210	VAL	3.6
1	F	760	PHE	3.6
1	H	204	ASP	3.6
1	C	760	PHE	3.5
1	A	361	SER	3.5
1	G	362	THR	3.5
1	B	370	SER	3.5
1	H	378	SER	3.5
1	H	210	VAL	3.5
1	A	751	GLY	3.5
1	F	755	ASP	3.4
1	G	760	PHE	3.4
1	G	210	VAL	3.4
1	H	492	SER	3.4
1	D	358	LYS	3.4
1	B	209	LEU	3.4
1	B	759	GLU	3.4
1	A	195	SER	3.4
1	B	369	GLU	3.3
1	F	123	TYR	3.3
1	E	204	ASP	3.3
1	E	208	ARG	3.3
1	A	526	SER	3.3
1	B	208	ARG	3.3
1	G	751	GLY	3.3
1	A	520	GLN	3.3
1	D	751	GLY	3.3
1	H	331	ASN	3.2
1	E	560	ASP	3.2
1	B	351	GLY	3.2
1	D	360	ASP	3.2
1	B	760	PHE	3.2
1	D	247	TYR	3.2
1	C	722	ASN	3.2
1	C	751	GLY	3.1
1	D	326	SER	3.1
1	A	350	GLU	3.1
1	H	353	CYS	3.1
1	H	326	SER	3.1
1	G	369	GLU	3.1
1	G	378	SER	3.1
1	H	356	ASP	3.1

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Mol	Chain	Res	Type	RSRZ
1	C	326	SER	3.0
1	H	325	ARG	3.0
1	C	325	ARG	3.0
1	E	722	ASN	3.0
1	E	360	ASP	3.0
1	A	204	ASP	3.0
1	H	560	ASP	3.0
1	A	492	SER	3.0
1	G	752	ASP	2.9
1	G	324	SER	2.9
1	E	370	SER	2.9
1	B	723	ASN	2.9
1	H	361	SER	2.9
1	H	756	ILE	2.9
1	D	194	ASP	2.9
1	H	136	ASP	2.9
1	H	175	GLU	2.9
1	E	755	ASP	2.9
1	E	351	GLY	2.9
1	A	194	ASP	2.9
1	A	324	SER	2.8
1	G	206	ASN	2.8
1	C	525	ASP	2.8
1	F	353	CYS	2.8
1	G	205	LYS	2.8
1	H	319	THR	2.8
1	F	525	ASP	2.8
1	G	123	TYR	2.8
1	H	352	ASP	2.8
1	B	372	ASN	2.8
1	G	755	ASP	2.7
1	A	123	TYR	2.7
1	A	372	ASN	2.7
1	A	211	TYR	2.7
1	G	364	ARG	2.7
1	B	359	THR	2.7
1	E	760	PHE	2.7
1	G	294	GLU	2.6
1	H	208	ARG	2.6
1	A	357	TRP	2.6
1	H	194	ASP	2.6
1	E	368	SER	2.6

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Mol	Chain	Res	Type	RSRZ
1	D	325	ARG	2.6
1	E	358	LYS	2.6
1	G	722	ASN	2.6
1	A	242	ASP	2.6
1	H	211	TYR	2.6
1	B	755	ASP	2.6
1	C	324	SER	2.5
1	A	353	CYS	2.5
1	A	371	LYS	2.5
1	G	209	LEU	2.5
1	C	211	TYR	2.5
1	F	560	ASP	2.5
1	E	137	SER	2.5
1	A	247	TYR	2.5
1	G	195	SER	2.5
1	E	325	ARG	2.5
1	E	331	ASN	2.5
1	B	247	TYR	2.5
1	D	722	ASN	2.4
1	E	356	ASP	2.4
1	A	360	ASP	2.4
1	G	560	ASP	2.4
1	H	360	ASP	2.4
1	A	294	GLU	2.4
1	E	723	ASN	2.4
1	G	725	ALA	2.4
1	H	359	THR	2.4
1	G	136	ASP	2.4
1	C	526	SER	2.4
1	H	720	LYS	2.3
1	A	207	GLY	2.3
1	H	358	LYS	2.3
1	F	705	GLY	2.3
1	F	359	THR	2.3
1	B	251	ASN	2.3
1	B	211	TYR	2.3
1	H	751	GLY	2.3
1	G	526	SER	2.3
1	G	175	GLU	2.3
1	B	195	SER	2.3
1	A	755	ASP	2.3
1	D	331	ASN	2.3

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Mol	Chain	Res	Type	RSRZ
1	G	180	LYS	2.3
1	B	206	ASN	2.3
1	B	560	ASP	2.3
1	B	196	ALA	2.3
1	D	760	PHE	2.2
1	H	355	SER	2.2
1	F	352	ASP	2.2
1	G	204	ASP	2.2
1	G	211	TYR	2.2
1	G	325	ARG	2.2
1	A	212	LEU	2.2
1	F	331	ASN	2.2
1	F	356	ASP	2.2
1	H	139	ASP	2.2
1	H	217	GLY	2.2
1	A	245	ASP	2.2
1	A	196	ALA	2.2
1	B	350	GLU	2.2
1	C	723	ASN	2.2
1	C	492	SER	2.2
1	F	370	SER	2.2
1	H	760	PHE	2.1
1	E	350	GLU	2.1
1	H	285	GLN	2.1
1	A	365	MET	2.1
1	B	319	THR	2.1
1	B	175	GLU	2.1
1	D	369	GLU	2.1
1	G	492	SER	2.1
1	G	352	ASP	2.1
1	G	724	GLY	2.1
1	B	368	SER	2.1
1	H	755	ASP	2.1
1	G	363	CYS	2.1
1	E	526	SER	2.1
1	H	574	LYS	2.1
1	D	361	SER	2.1
1	H	452	SER	2.1
1	B	355	SER	2.1
1	E	195	SER	2.1
1	E	371	LYS	2.1
1	G	493	ASN	2.0

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Mol	Chain	Res	Type	RSRZ
1	C	560	ASP	2.0
1	B	724	GLY	2.0
1	A	663	ALA	2.0
1	H	123	TYR	2.0
1	B	694	GLU	2.0

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

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

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q < 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
3	SM	A	765	1/1	0.98	0.27	0.17	2,2,2,2	0
2	NAG	F	762	14/15	0.92	0.22	-0.28	67,86,94,95	0
2	NAG	B	762	14/15	0.86	0.23	-0.30	66,87,98,98	0
2	NAG	A	762	14/15	0.89	0.24	-0.36	76,93,98,98	0
2	NAG	C	762	14/15	0.91	0.18	-0.47	46,69,81,81	0
2	NAG	E	762	14/15	0.92	0.19	-0.63	64,80,90,92	0
2	NAG	H	762	14/15	0.88	0.21	-0.70	89,97,98,98	0
3	SM	G	765	1/1	0.89	0.22	-0.80	2,2,2,2	0
2	NAG	D	762	14/15	0.91	0.15	-0.83	62,81,93,94	0
2	NAG	G	762	14/15	0.89	0.20	-0.98	80,91,96,98	0
3	SM	B	765	1/1	0.94	0.19	-1.08	2,2,2,2	0
3	SM	E	765	1/1	0.94	0.17	-1.40	2,2,2,2	0
3	SM	C	765	1/1	0.95	0.17	-1.41	2,2,2,2	0
3	SM	H	765	1/1	0.82	0.16	-1.71	2,2,2,2	0
3	SM	D	765	1/1	0.89	0.13	-2.02	2,2,2,2	0
3	SM	F	765	1/1	0.94	0.14	-2.38	2,2,2,2	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
2	NAG	E	763	14/15	0.89	0.25	-	70,78,82,84	0
2	NAG	G	761	14/15	0.60	0.48	-	94,98,98,98	0
2	NAG	B	763	14/15	0.84	0.27	-	90,98,98,98	0
2	NAG	A	761	14/15	0.73	0.43	-	93,98,98,98	0
2	NAG	B	761	14/15	0.62	0.49	-	92,98,98,98	0
2	NAG	F	761	14/15	0.78	0.39	-	78,98,98,98	0
2	NAG	E	761	14/15	0.44	0.52	-	91,98,98,98	0
3	SM	C	766	1/1	0.98	0.28	-	5,5,5,5	0
3	SM	B	766	1/1	0.92	0.27	-	45,45,45,45	0
2	NAG	G	763	14/15	0.83	0.29	-	92,96,98,98	0
2	NAG	D	763	14/15	0.88	0.26	-	68,83,91,94	0
3	SM	A	766	1/1	0.95	0.38	-	34,34,34,34	0
3	SM	D	766	1/1	0.95	0.20	-	38,38,38,38	0
3	SM	G	766	1/1	0.96	0.29	-	56,56,56,56	0
3	SM	G	764	1/1	0.92	0.33	-	27,27,27,27	0
3	SM	D	764	1/1	0.97	0.36	-	2,2,2,2	0
3	SM	F	764	1/1	0.83	0.27	-	2,2,2,2	0
3	SM	C	764	1/1	0.93	0.23	-	2,2,2,2	0
2	NAG	H	763	14/15	0.69	0.35	-	85,98,98,98	0
3	SM	B	764	1/1	0.95	0.29	-	2,2,2,2	0
3	SM	H	766	1/1	0.94	0.29	-	54,54,54,54	0
3	SM	H	764	1/1	0.89	0.28	-	2,2,2,2	0
2	NAG	A	763	14/15	0.80	0.33	-	91,98,98,98	0
3	SM	F	766	1/1	0.92	0.17	-	56,56,56,56	0
2	NAG	H	761	14/15	0.69	0.64	-	97,98,98,98	0
2	NAG	F	763	14/15	0.86	0.32	-	81,87,92,92	0
2	NAG	D	761	14/15	0.84	0.30	-	95,98,98,98	0
3	SM	A	764	1/1	0.94	0.28	-	2,2,2,2	0
2	NAG	C	763	14/15	0.83	0.28	-	61,86,89,95	0
2	NAG	C	761	14/15	0.83	0.20	-	95,98,98,98	0
3	SM	E	764	1/1	0.93	0.31	-	2,2,2,2	0
3	SM	E	766	1/1	0.96	0.31	-	2,2,2,2	0

6.5 Other polymers [i](#)

There are no such residues in this entry.